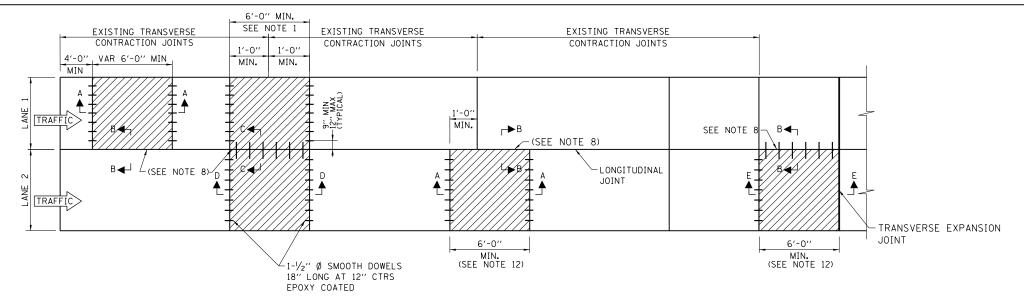
Illinois Tollway Standard Drawing Revisions

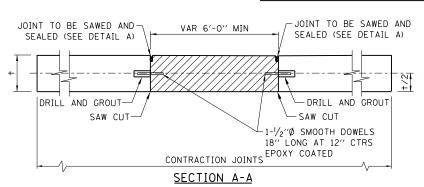
Section A	Roadway Pavement										
	Standard	Modification Summary	Effective: 03-01-2024								
	A5-08	J.P.C Pavement									
	Sheet 1	Added a new Note 8.									
	Sheet 3	Sheet 3 of 3 added to standard with Pavement Cross-Section and Pavement Plan for J.P.C Pavement on 1- and 2- Lane Ramp									

New Sheet

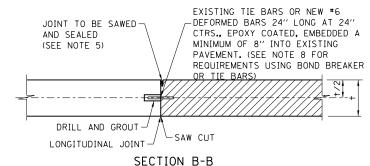
Retired Standard



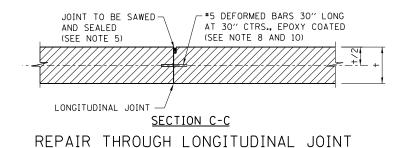
PROPOSED CONCRETE PAVEMENT FULL DEPTH REPAIR TYPICAL ROADWAY PLAN

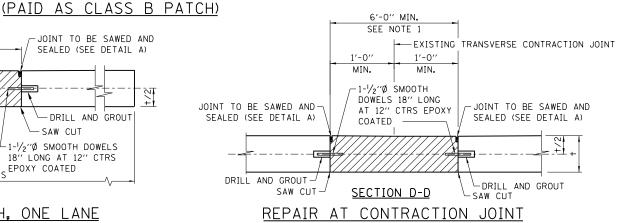


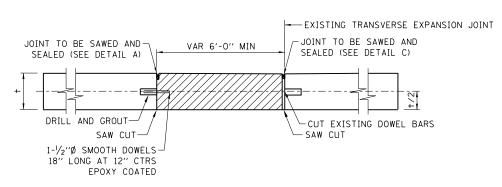
REPAIR - FULL DEPTH. ONE LANE



REPAIR ALONG LONGITUDINAL JOINT







SECTION E-E REPAIR - FULL DEPTH, ONE LANE TRANSVERSE EXPANSION JOINT

GENERAL NOTES:

- 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 F-F). 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 FOOT BEYOND THE JOINT.
- 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.
- UNLESS OTHERWISE NOTED, DRILLED AND GROUTED DOWELS SHALL BE EMBEDDED last/2 THEIR LENGTH INTO THE EXISTING CONCRETE USING CHEMICAL ADHESIVE AS SPECIFIED.
- 4. UNLESS OTHERWISE NOTED, TIE BARS SHALL BE EMBEDDED 1/3 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.
- 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 CONTRACTION JOINT.
- 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 BE 15'.
- 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

PROPOSED CONCRETE PAVEMENT

REPAIR - FULL DEPTH PROPOSED CONCRETE PAVEMENT

CONCRETE PAVEMENT THICKNESS

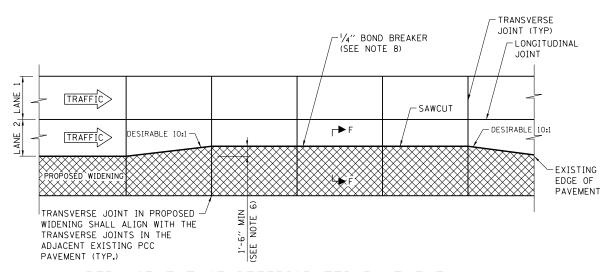
SHEET 1 OF 2 Illinois *Tollway*

DATE REVISIONS DDED TRANSVERSE EXPANSION JOINT REVISED NOTES -01-2018 REMOVED TIE BARS & REVISED NOTE TAPER SAW CL

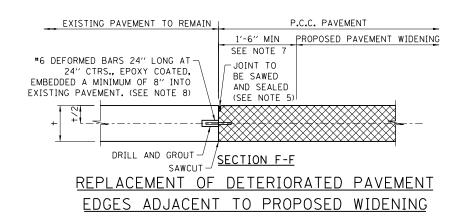
CONCRETE PAVEMENT REPAIR FULL DEPTH

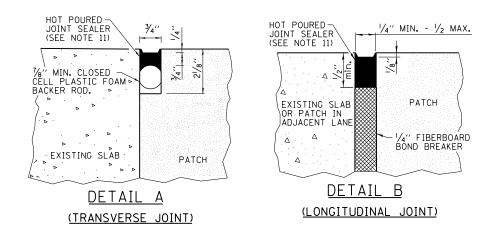
STANDARD A1-09

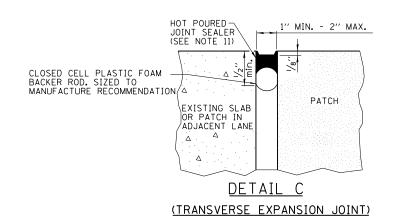




REPLACEMENT OF DETERIORATED PAVEMENT EDGES ADJACENT TO PROPOSED WIDENING (PAID AS PART OF WIDENING)







SHEET 2 OF 2

Illinois

Tollway

CONCRETE PAVEMENT REPAIR FULL DEPTH

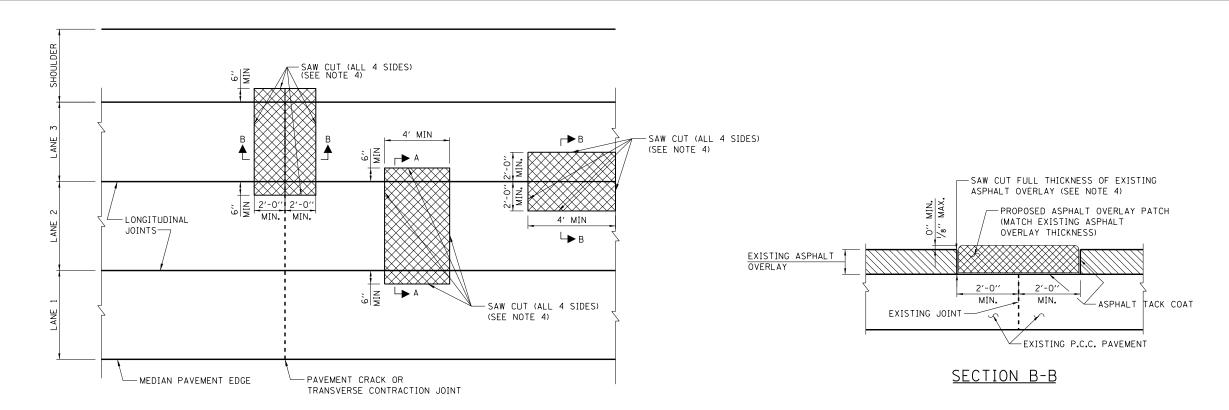
STANDARD A1-09

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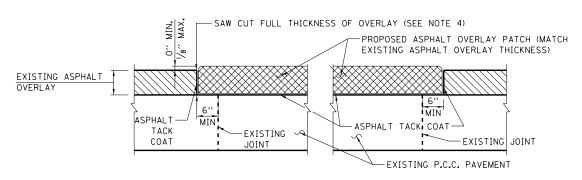
DATE:

O5/01/2009

CHIEF ENGINEERING OFFICER



PROPOSED ASPHALT OVERLAY REPAIR TYPICAL ROADWAY PLAN



SECTION A-A ASPHALT OVERLAY REPAIR

NOTES: TYPICAL ASPHALT OVERLAY REPAIR

- 1. LOCATION OF ALL OVERLAY REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER.
- 2. MINIMUM DIMENSIONS SHALL BE AS SHOWN IN TYPICAL ROADWAY PLAN.
- 3. ALL ASPHALT OVERLAY SHALL BE REMOVED TO THE TOP OF THE P.C.C. PAVEMENT.
- 4. SAWCUT MAY BE ELIMINATED IF MILLING EQUIPMENT IS USED AND VERTICAL AND STRAIGHT SIDES ARE OBTAINED. TRANSVERSE SAWCUTS ARE ALWAYS REQUIRED.

LEGEND

EXISTING OR PROPOSED ASPHALT OVERLAY

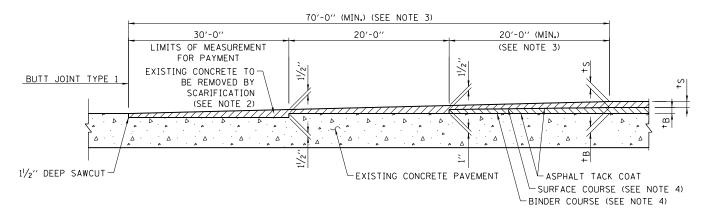


PROPOSED PAVEMENT REPAIR



DATE	REVISIONS	
3-01-2021	UPDATED MIN PAVEMENT DIMENSIONS	ASPHALT OVERLAY REPAIR
3-01-2020	REVISED NOTES	
3-01-2019	REVISED NOTES	
3-31-2017	REVISED SPECIAL PROVISION	
	REFERENCE	STANDARD A2-08
		3 I ANDAND AZ-00

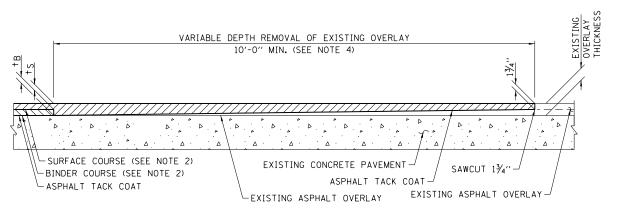
05/01/2009



DETAIL OF BUTT JOINT, TYPE 1

NOTES FOR BUTT JOINT, TYPE 1

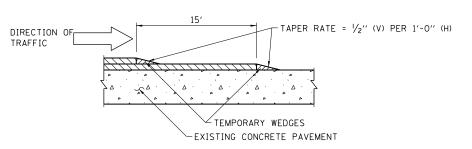
- THE ABOVE WORK WILL BE PERFORMED AT THE ENDS OF ALL ASPHALT RESURFACING.
- 2. ONLY APPROVED SCARIFYING OR MILLING EQUIPMENT SHALL BE USED TO SCARIFY THE CONCRETE PAVEMENT.
- 3. REGARDLESS OF TYPE OF SURFACE MIX USED, NUMBER OR THICKNESS OF COURSES OR LAYERS, THE OVERLAY THICKNESS TRANSITION LENGTH SHALL BE BASED ON 1" IN 20' AND THE MINIMUM SURFACE LAYER THICKNESS SHALL BE 11/2".
- 4. REFER TO THE CONTRACT DOCUMENTS FOR THE REQUIRED BINDER AND SURFACE COURSE MATERIALS. "15" IS THE THICKNESS OF THE SURFACE COURSE SPECIFIED IN THE CONTRACT. "18" IS THE THICKNESS OF THE BINDER COURSE SPECIFIED IN THE CONTACT.



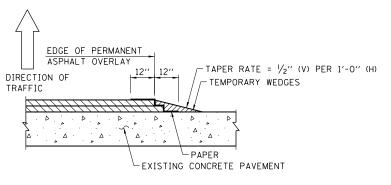
DETAIL OF BUTT JOINT, TYPE 2 AT EXISTING OVERLAY AREAS

NOTES FOR BUTT JOINT, TYPE 2

- THE ABOVE WORK WILL BE PERFORMED AT THE ENDS OF ALL ASPHALT RESURFACING WHERE BUTT JOINTS EXIST.
- 2. REFER TO THE CONTRACT DOCUMENTS FOR THE REQUIRED BINDER AND SURFACE COURSE MATERIALS. "+s" IS THE THICKNESS OF THE SURFACE COURSE SPECIFIED IN THE CONTRACT. "+B" IS THE THICKNESS OF THE BINDER COURSE SPECIFIED IN THE CONTRACT.
- . SAWCUT MAY BE ELIMINATED IF MILLING EQUIPMENT IS USED AND VERTICAL AND STRAIGHT SIDES ARE OBTAINED.
- REGARDLESS OF TYPE OF SURFACE MIX USED, NUMBER OR THICKNESS OF COURSES OR LAYERS, THE OVERLAY THICKNESS TRANSITION LENGTH SHALL BE BASED ON 1" IN 20' AND THE MINIMUM SURFACE LAYER THICKNESS SHALL BE 144".



TEMPORARY ASPHALT WEDGE - TRANSVERSE



TEMPORARY ASPHALT WEDGE - LONGITUDINAL

NOTES FOR TEMPORARY ASPHALT WEDGE - LONGITUDINAL

- UPON REMOVAL OF THE WEDGES, THE SURFACE COURSE SHALL BE SAWCUT PARALLEL TO THE JOINT TO PROVIDE A TRUE VERTICAL SURFACE.
- 2. REFER TO THE CONTRACT DOCUMENTS FOR THE REQUIRED BINDER AND SURFACE COURSE MATERIALS.

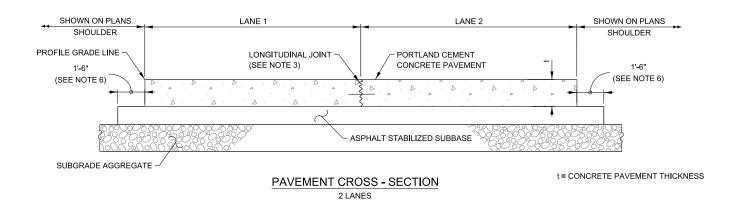


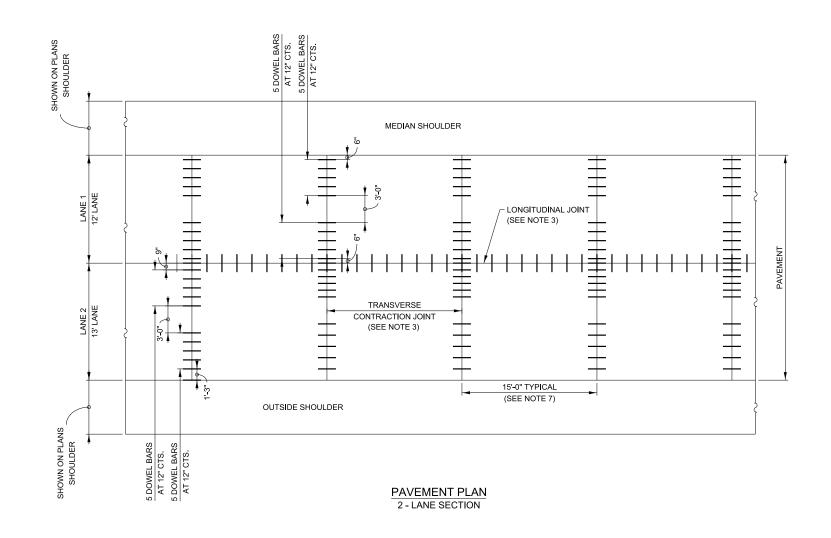
DATE	REVISIONS	
3-01-2018	ADDED DIRECTION ARROWS	BUTT JOINTS AND
3-31-2017	REMOVED PAY ITEM DESIGNATION FROM	TEMPORARY ASPHALT WEDGE
	NOTES REVISED MIN + THICKNESS	TEMM ON MET MED OF
	UPDATED BUTT JOINT TYPE 2	
	ADDED TRAFFIC ARROWS	STANDARD A4-05
	·	STANDAND A4-03

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GENERAL NOTES:

- 1. DOWEL BASKET ASSEMBLIES, WHERE USED, SHALL BE SUPPORTED AND ANCHORED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- 2. MATERIALS ARE PROJECT SPECIFIC. REFER TO PROJECT PLANS AND CONTRACT DOCUMENTS FOR DETAILS.
- 3. SEE ILLINOIS TOLLWAY STANDARD DRAWING A7 (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 PROJECT PLANS FOR DETAILS AND MATERIAL THICKNESS.
- THE TIE BAR FOR THE LONGITUDINAL SAWED JOINT SHALL BE 18" FROM THE TRANSVERSE CONTRACTION JOINT.
- 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'-0" TYPICAL TRANSVERSE JOINT SPACING DIMENSION SHALL BE ADJUSTED TO 12'-0" MIN. TO 18'-0" 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" FROM DOWEL BARS.
- 8. SEE ILLINOIS TOLLWAY STANDARD DRAWINGS A12, A13, A14, A15, A16 AND A17 FOR CONCRETE SLAB WIDTH.

Illinois Tollway

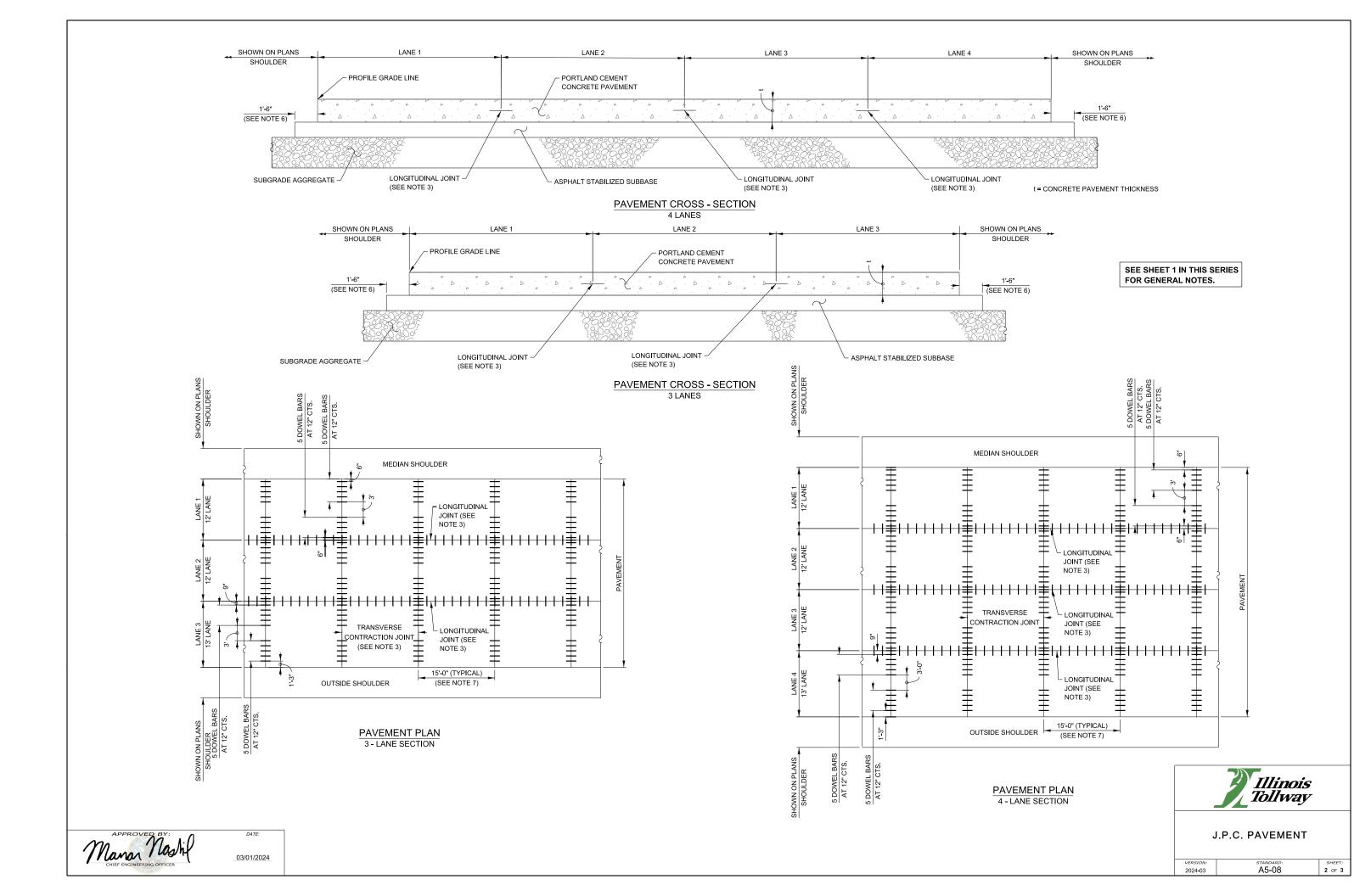
DESCRIPTION 03-01-2024 ADDED NEW SHEET WITH RAMP PAVEMENT DETAIL. ADDED NOTE 8 IN GENERAL NOTES 03-01-2021 UPDATED NOTES 03-01-2020 UPDATED CROWN AND DOWELS 03-01-2019 UPDATED NOTES 2024-03

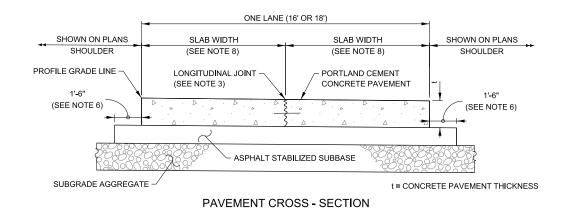
J.P.C. PAVEMENT

A5-08

1 OF 3

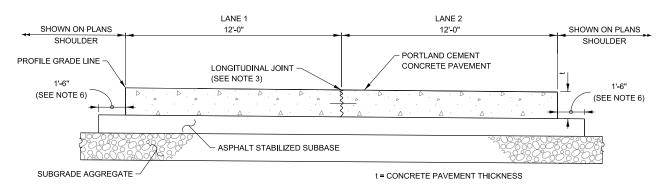
03/01/2024



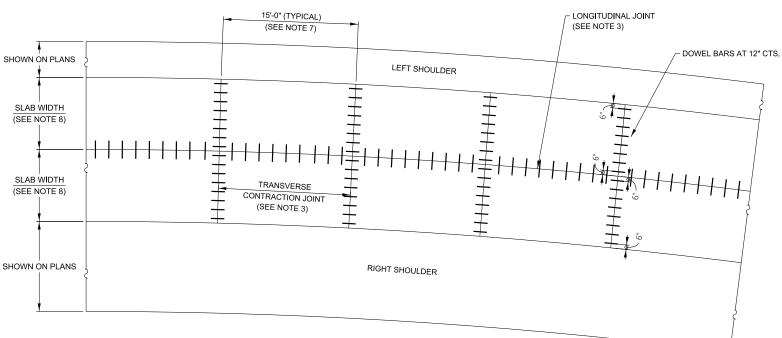


1- LANE RAMP

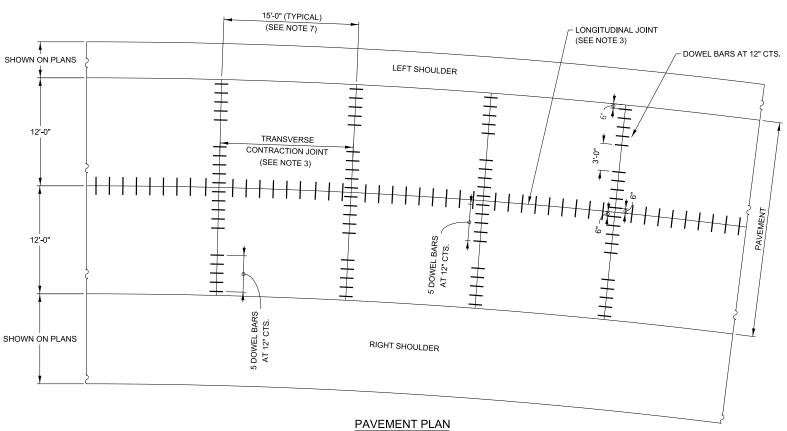
SEE SHEET 1 IN THIS SERIES FOR GENERAL NOTES.



PAVEMENT CROSS - SECTION 2- LANE RAMP



PAVEMENT PLAN 1- LANE RAMP



2 - LANE RAMP



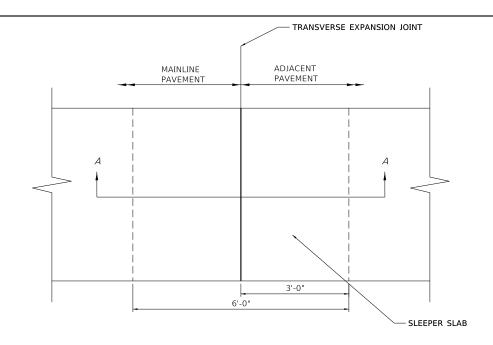
J.P.C. PAVEMENT

VERSION: 2024-03

A5-08

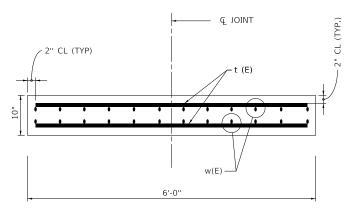
3 OF 3

03/01/2024



SLEEPER SLAB NOTES PLAN

- ADDITIONAL THICKNESS OF PAVEMENT SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR THE PAVEMENT TYPE.
- 2. POLYETHYLENE SHEET AND AGGREGATE SUPPORTING THE SLEEPER SLAB SHALL BE INCLUDED IN THE COST OF SLEEPER SLAB.

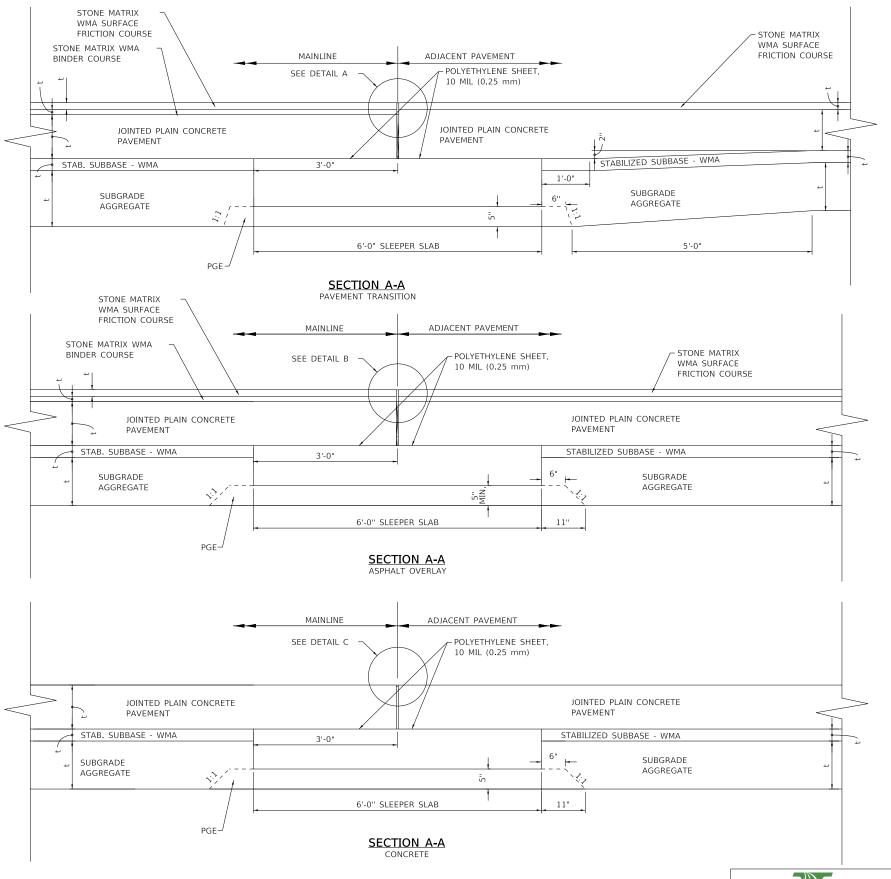


SLEEPER SLAB SECTION

Bar	No.	Size	Length
t(E)	XX	#4	5'-8"
w(E)	XX	#5	XX

SLEEPER SLAB SECTION NOTES

- 1. t(E) BARS SHALL BE PLACED AT 12" CTS.
- 2. w(E) NUMBER AND LENGTH DEPEND ON WIDTH OF ROADWAY.
- 3. USE 2'-8" MIN LAP FOR #4 BARS. USE 4-0" MIN. LAP FOR #5 BARS.





R E V I S I O N S

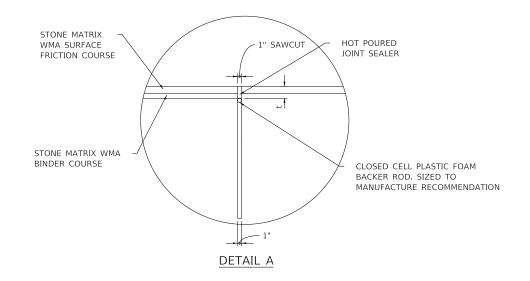
DATE DESCRIPTION
3-01-2022 REMOVED CAPPING AGG
3-01-2021 UPDATEO NOTES
3-01-2020 REVISED TRANSVERSE EXPANSION JOINT
5-01-2017 MODIFIED JOINT DETAIL, REVISED NOTES
3-31-2017 ADDED TRANSVERSE EXPANSION JOINT
3-31-2016 REVISED 13" PAVE NOTE FOR DOWEL BAR
2022-03 A7-06 1 0F 2

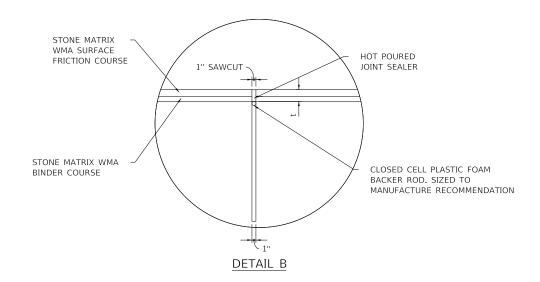
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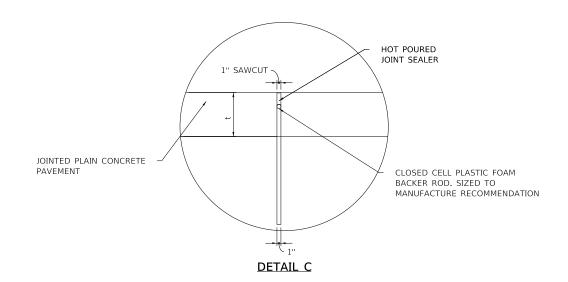
DATE:

O2/17/2019

CHIEF ENGINEERING OFFICER



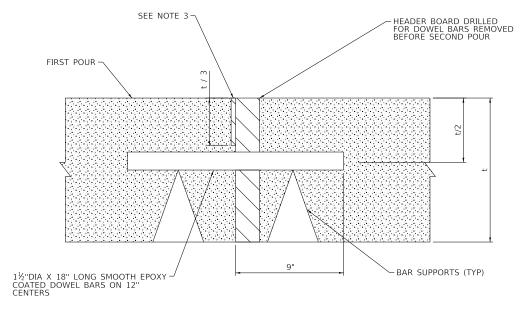




02/17/2019

APPROVED BY:

Paul Koracs



TRANSVERSE CONSTRUCTION JOINT (JOINTED PLAIN CONCRETE PAVEMENT)

GENERAL NOTES:

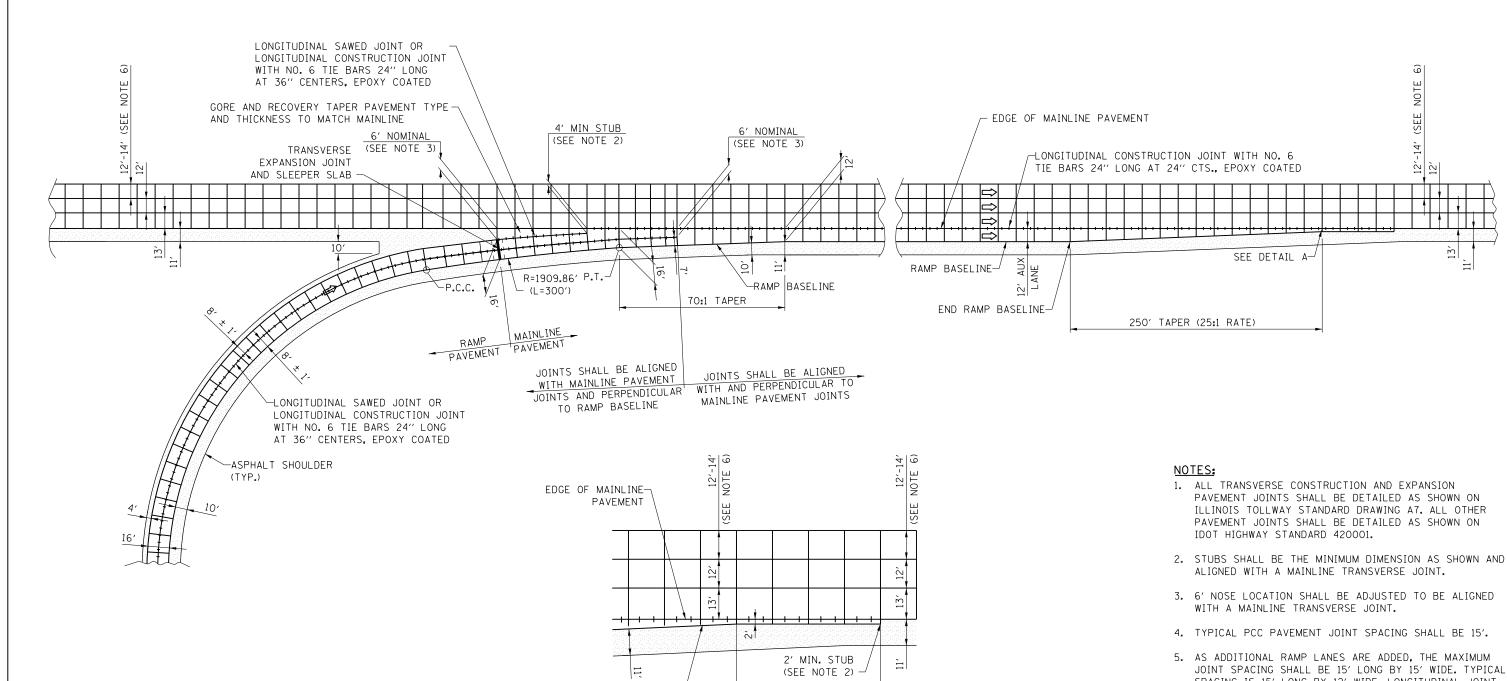
- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- 2. t = PAVEMENT THICKNESS.
- 3. A $\frac{3}{8}$ " WIDE SAW CUT SHALL BE PROVIDED AFTER THE SECOND POUR FOR PAVEMENT CRACK CONTROL. MINIMUM DEPTH SHALL BE t/3.



PAVEMENT JOINTS

VERSION: 2022-03

SHEET: 2 OF 2 A7-06



DETAIL A

50' (MIN.)

- PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING A7. ALL OTHER PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON

- JOINT SPACING SHALL BE 15' LONG BY 15' WIDE. TYPICAL SPACING IS 15' LONG BY 12' WIDE. LONGITUDINAL JOINT LOCATIONS IN THE WHEEL PATH SHALL BE MINIMIZED.
- 6. DIMENSION OF LANE 1 SHALL BE AS SHOWN ON THE PLANS.

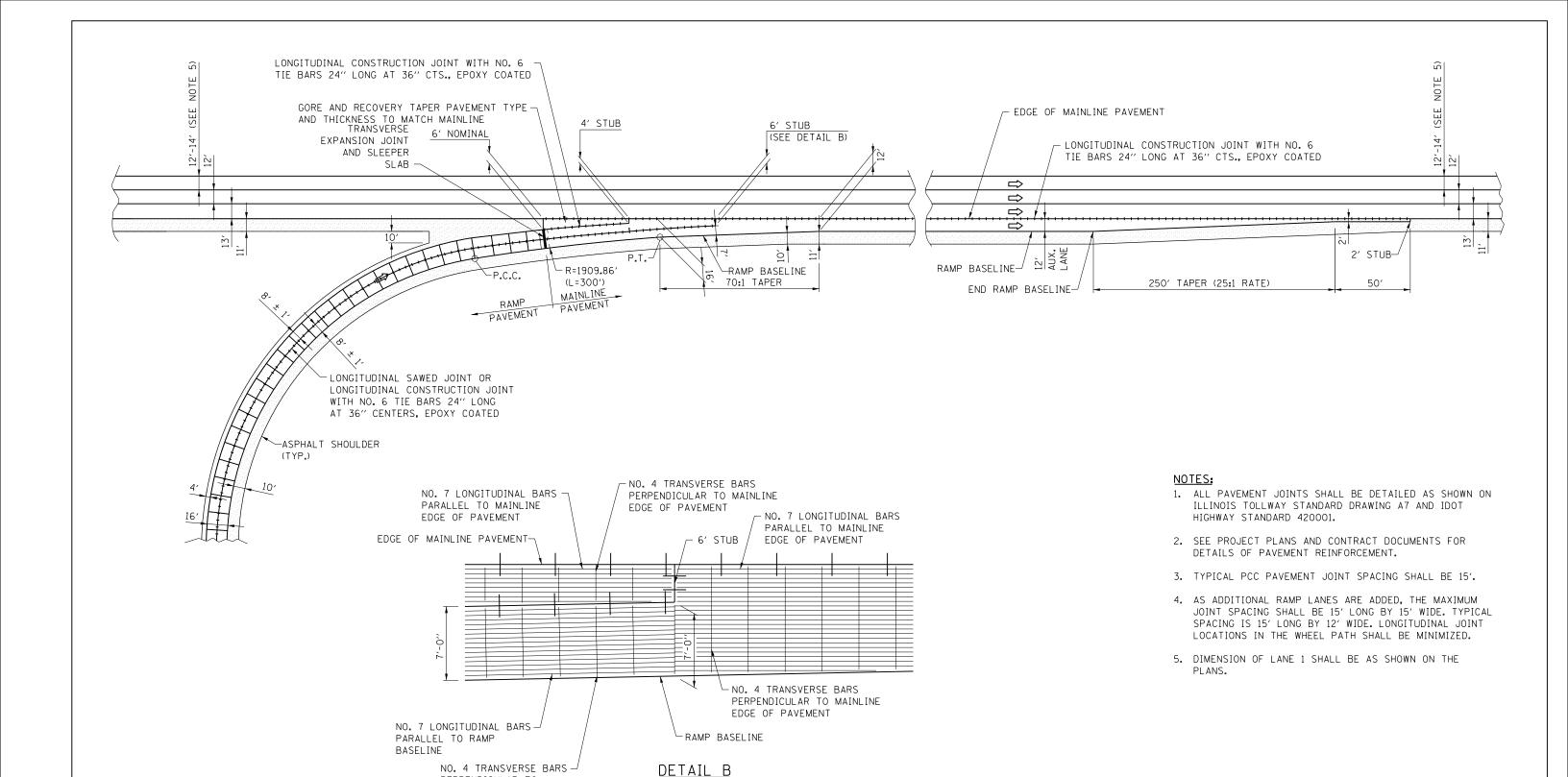
SHEET 1 OF 2

Illinois

Tollway JOINTING PLAN ENTRANCE RAMP TERMINAL WITH AUXILIARY LANE

DATE REVISIONS 3-01-2021 TIE BARS AT 36" CENTERS
UPDATED SHOULDER TO 11:
3-01-2020 UPDATED DIMENSIONS STANDARD A12-02

Faul Koracs 03/01/2019 25:1 TAPER RATE



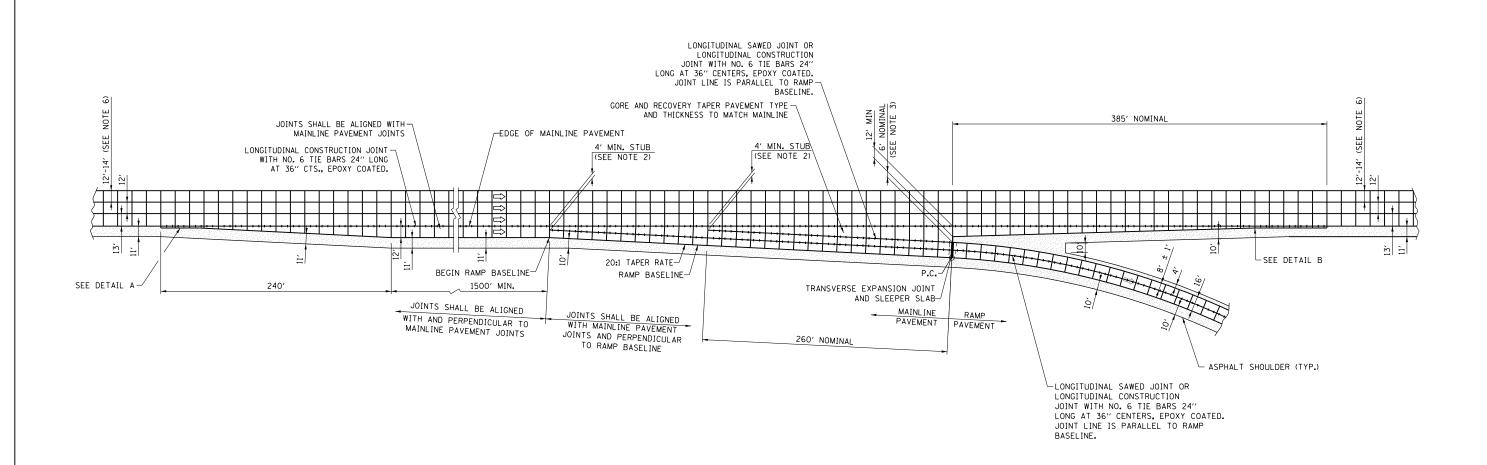
SHEET 2 OF 2

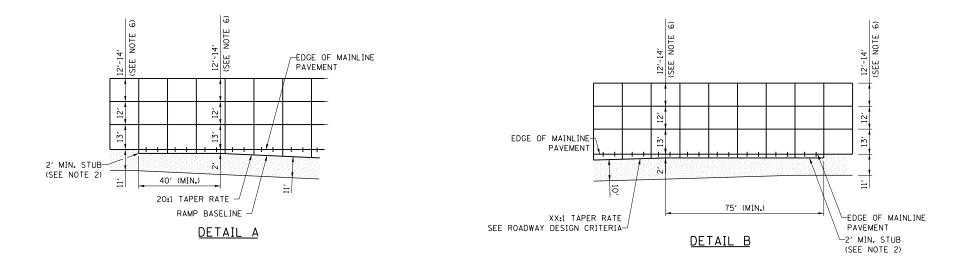


JOINTING PLAN ENTRANCE RAMP TERMINAL WITH AUXILIARY LANE

STANDARD A12-02

PERPENDICULAR TO RAMP BASELINE





NOTES:

- 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 MAINLINE TRANSVERSE JOINT.
- 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 WHEEL PATH SHALL BE MINIMIZED.
- 6. DIMENSIONS OF LANE 1 SHALL BE AS SHOWN ON THE PLANS.

3-01-2018 MOVED RAMP PAVEMENT

DATE

REVISIONS 3-01-2022 UPDATED DIMENSIONS
3-01-2021 TIE BARS AT 36" CENTERS
3-01-2020 UPDATED 12' MIN AT GORE
3-01-2019 MODIFIED DETAILS
ADDED PCC ADJ TO CRC

JOINTING PLAN EXIT RAMP TERMINAL WITH AUXILIARY LANE

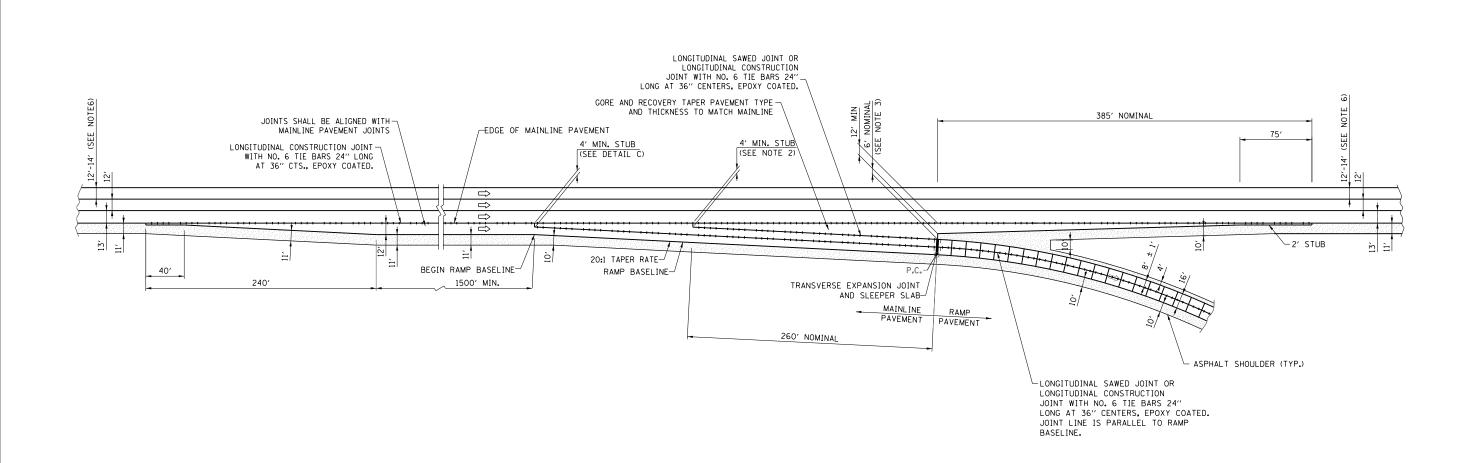
STANDARD A13-05

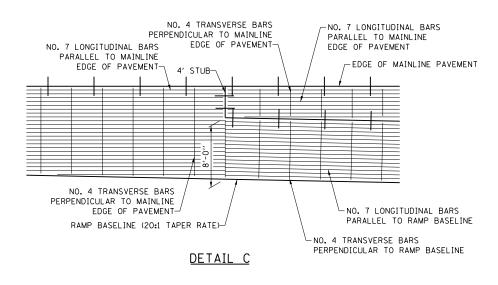
SHEET 1 OF 2

Illinois Tollway

03/31/2017

JOINTED PCC RAMP ADJACENT TO JOINTED PCC MAINLINE PAVEMENT





OTES:

- ALL PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING A7 AND IDOT HIGHWAY STANDARD 420001.
- 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.

SHEET 2 OF 2

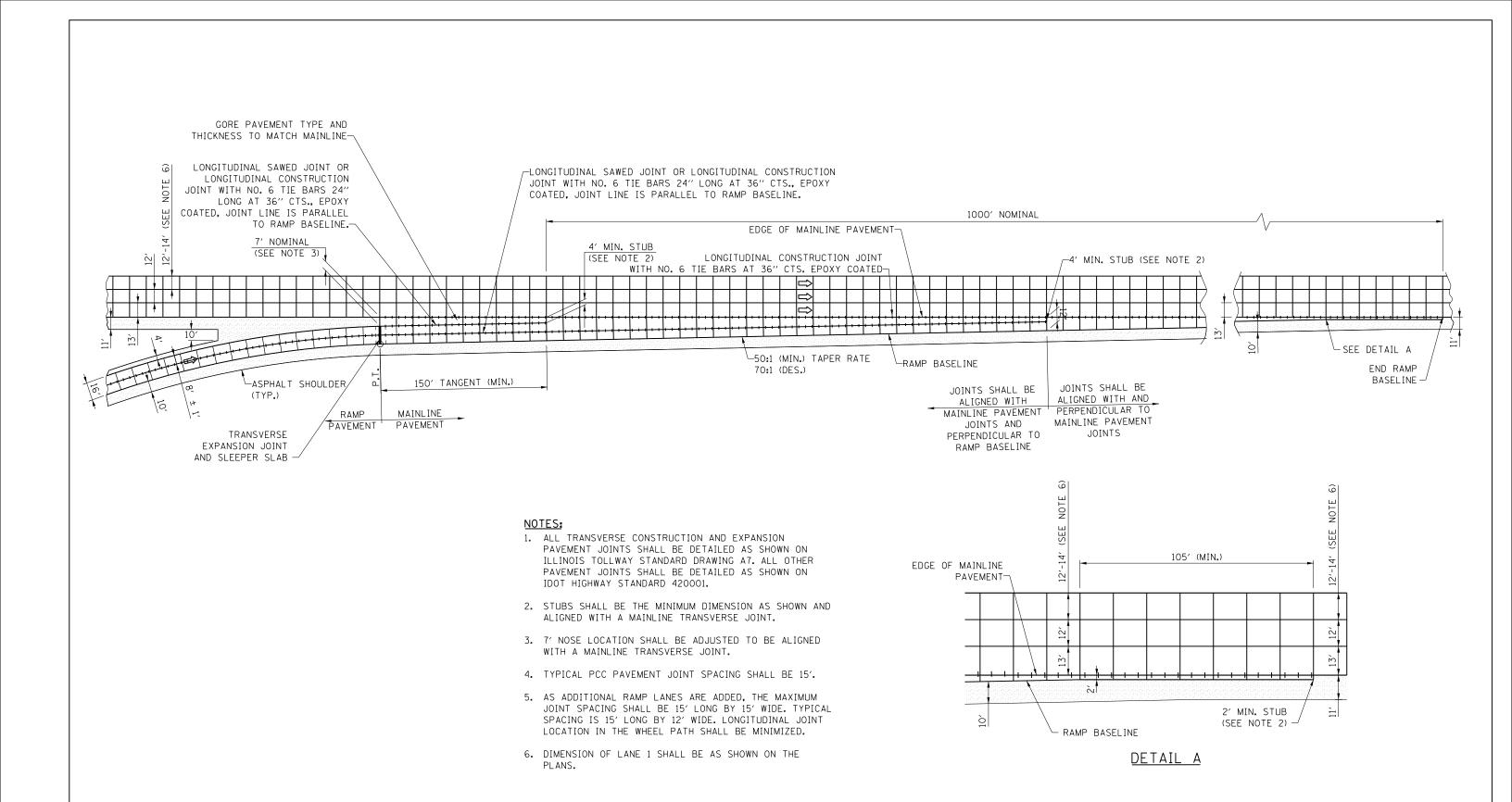


JOINTING PLAN EXIT RAMP TERMINAL WITH AUXILIARY LANE

STANDARD A13-05

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





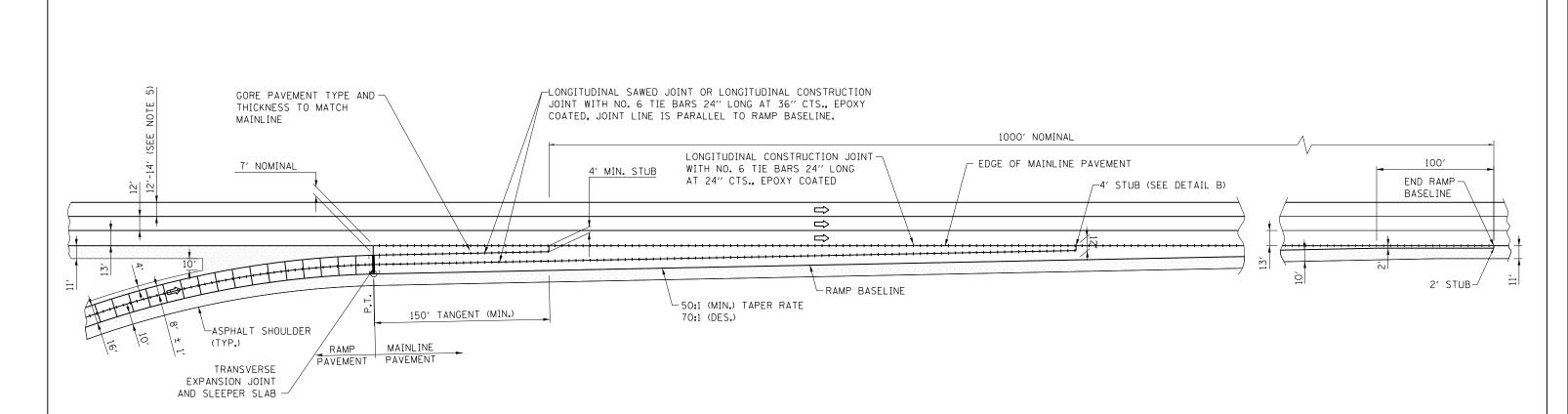
JOINTED PCC RAMP ADJACENT TO JOINTED PCC MAINLINE PAVEMENT

<u>Illinois</u> Tollway

SHEET 1 OF 2

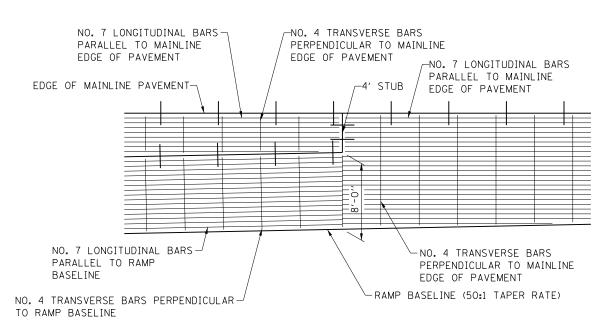
DATE REVISIONS JOINTING PLAN IPDATE DETAIL B UPDATE 12' AT MAINLINE TIE BARS AT 36" CENTERS ENTRANCE RAMP TERMINAL VISED WITH EPOXY BARS DATED TAPER DESIRED STANDARD A14-07

01/31/2015



NOTES:

- 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, 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.



<u>DETAIL B</u>

SHEET 2 OF 2



JOINTING PLAN ENTRANCE RAMP TERMINAL

STANDARD A14-07

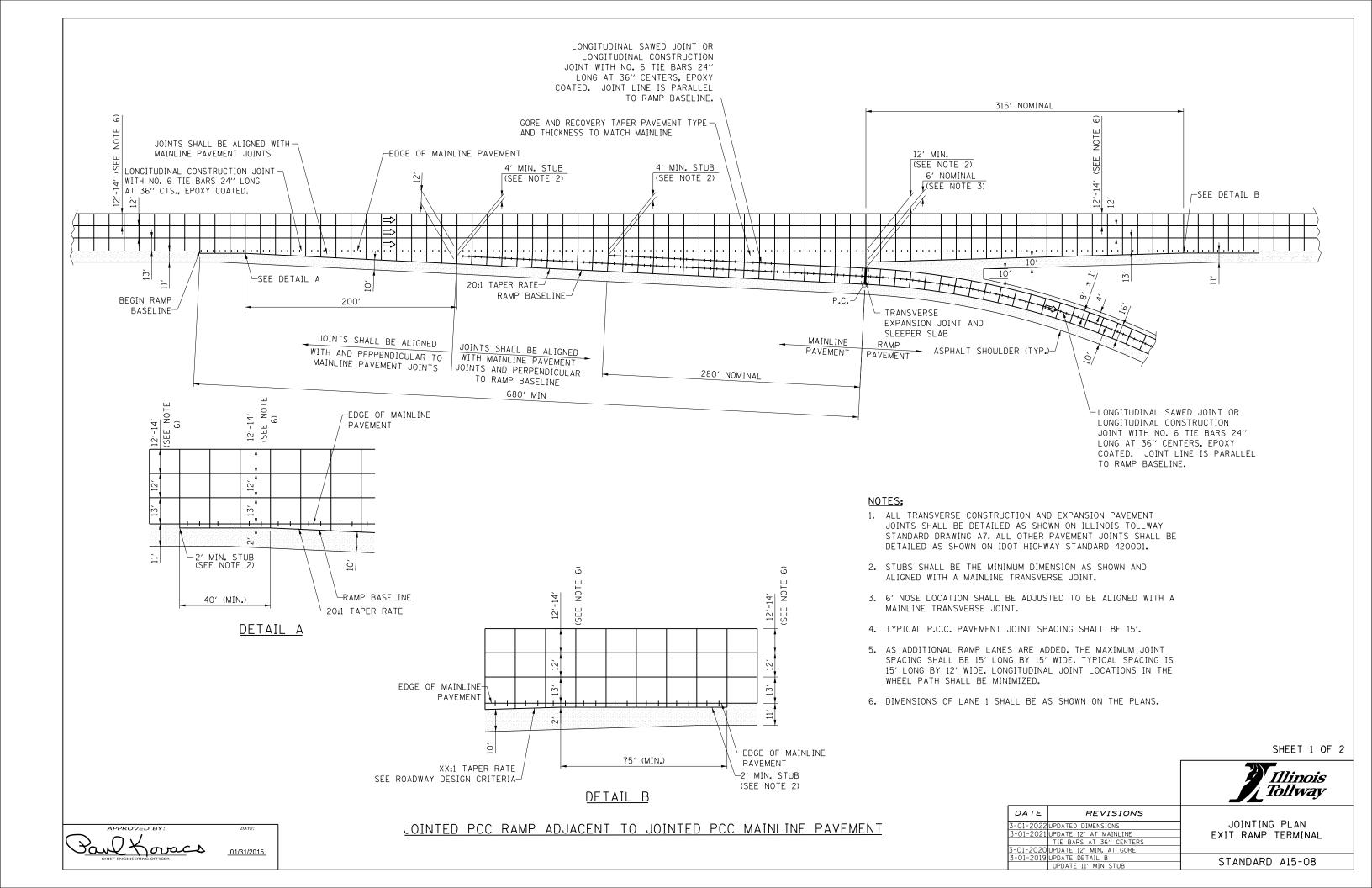
JOINTED PCC RAMP ADJACENT TO JOINTED C.R.C. MAINLINE PAVEMENT

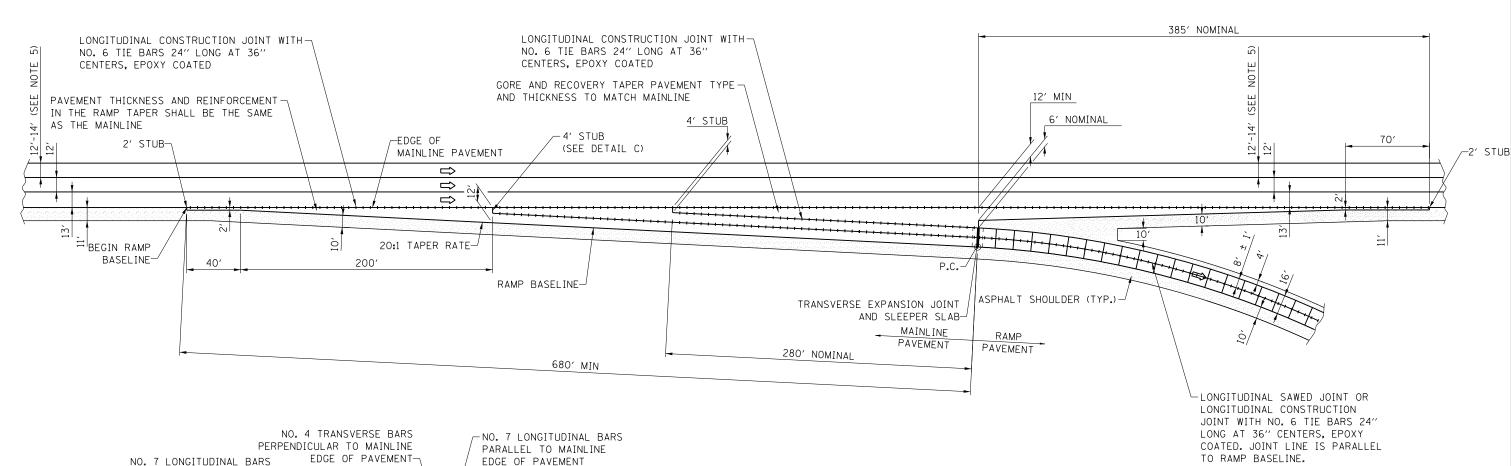
APPROVED BY:

DATE:

O1/31/2015

CHIEF ENGINEERING OFFICER





NOTES:

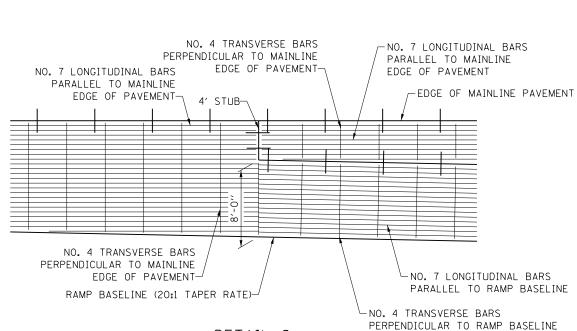
- 1. ALL PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING A7 AND IDOT HIGHWAY STANDARD 420001.
- 2. SEE PROJECT PLANS AND CONTRACT DOCUMENTS FOR DETAILS OF PAVEMENT REINFORCEMENT.
- 3. TYPICAL P.C.C. PAVEMENT JOINT SPACING SHALL BE 15'.
- 4. AS ADDITIONAL RAMP LANES ARE ADDED, THE MAXIMUM JOINT SPACING SHALL BE 15' LONG BY 15' WIDE. TYPICAL 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

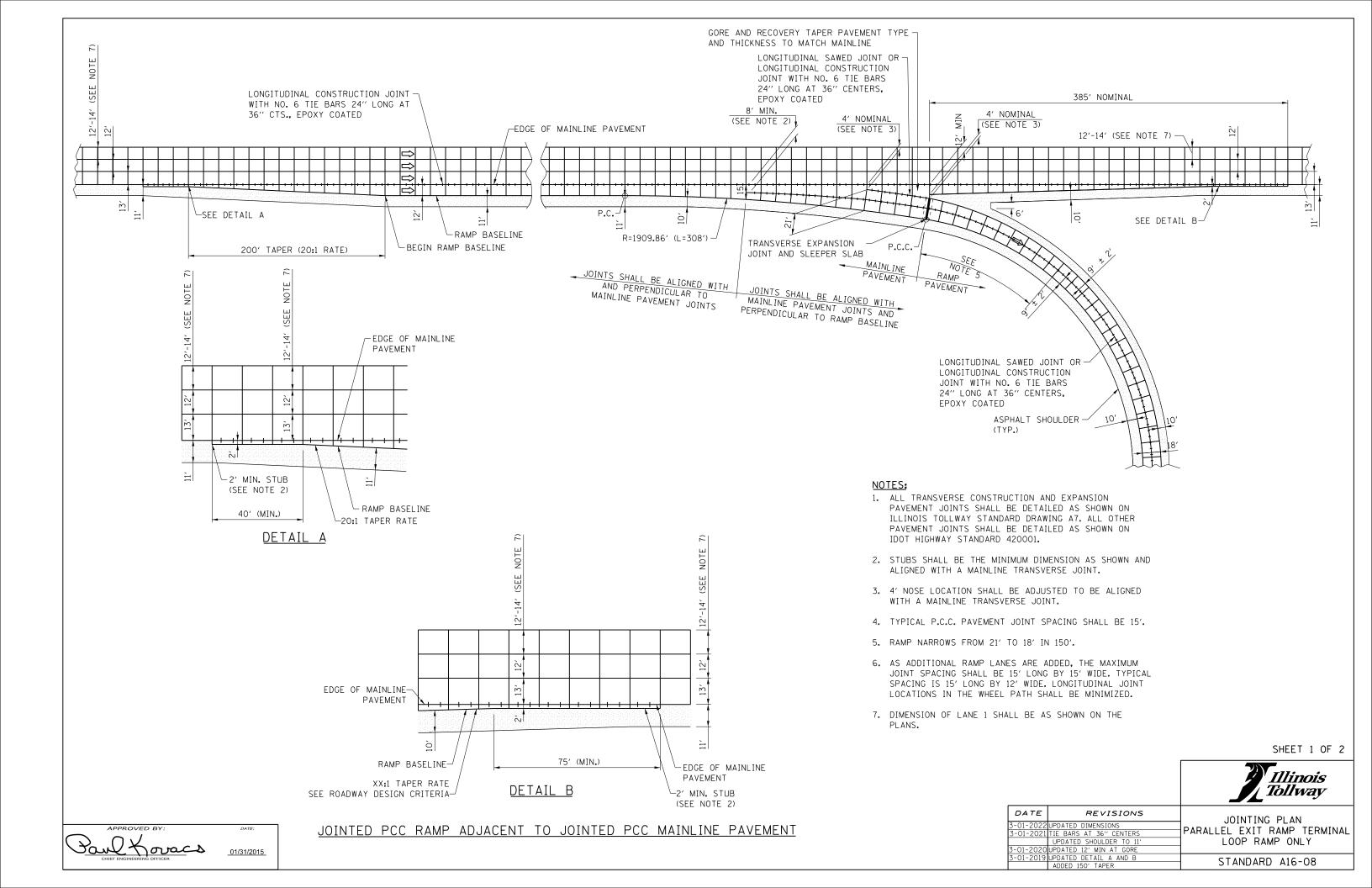


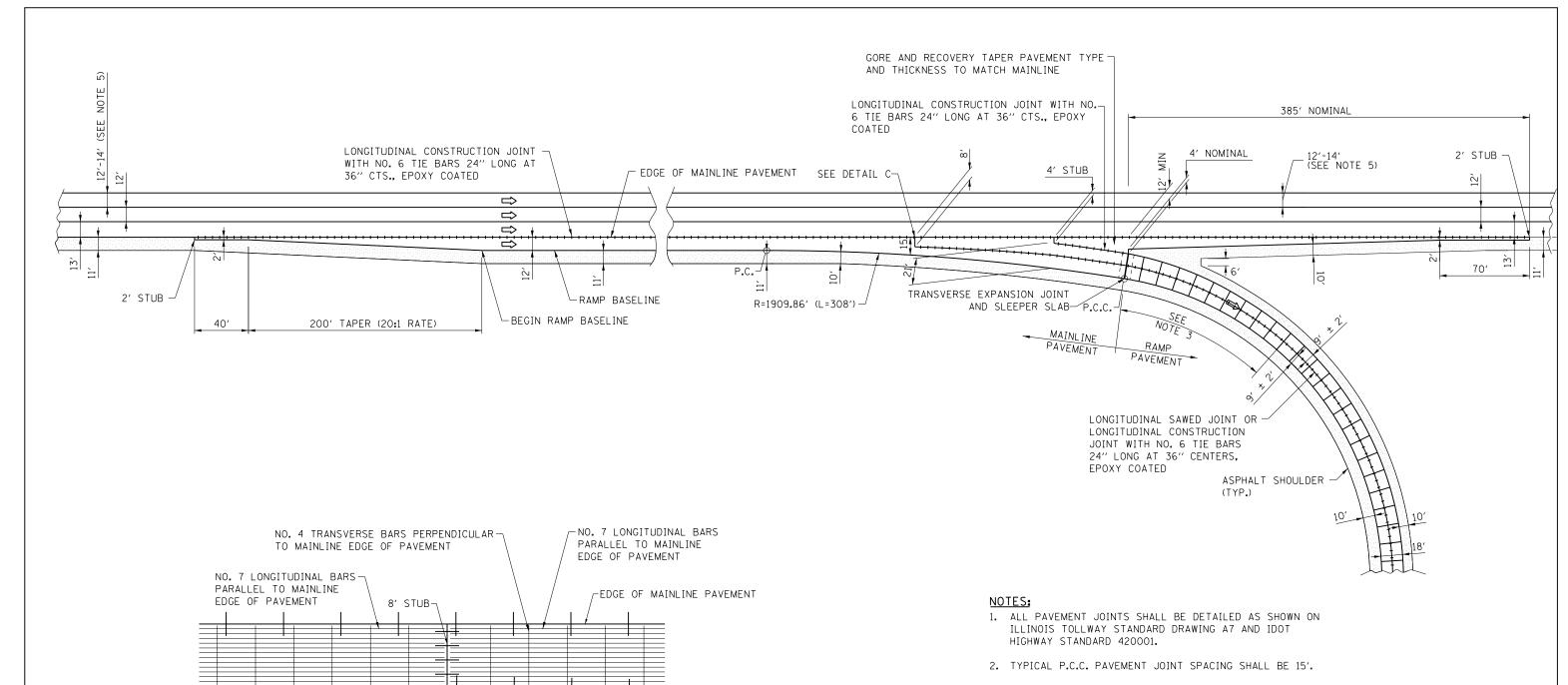
JOINTING PLAN
EXIT RAMP TERMINAL

STANDARD A15-08



DETAIL C





- 3. RAMP NARROWS FROM 21' TO 18' IN 150'.
- 4. 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 WHEEL PATH SHALL BE MINIMIZED.
- 5. DIMENSION OF LANE 1 SHALL BE AS SHOWN ON THE PLANS.
- SEE PROJECT PLANS AND CONTRACT DOCUMENTS FOR DETAILS OF PAVEMENT REINFORCEMENT.

SHEET 2 OF 2



JOINTING PLAN
PARALLEL EXIT RAMP TERMINAL
LOOP RAMP ONLY

STANDARD A16-08

APPROVED BY:

OATE:

O1/31/2015

CHIEF ENGINEERING OFFICER

NO. 4 TRANSVERSE BARS PERPENDICULAR-

RAMP BASELINE

DETAIL C

TO MAINLINE EDGE OF PAVEMENT

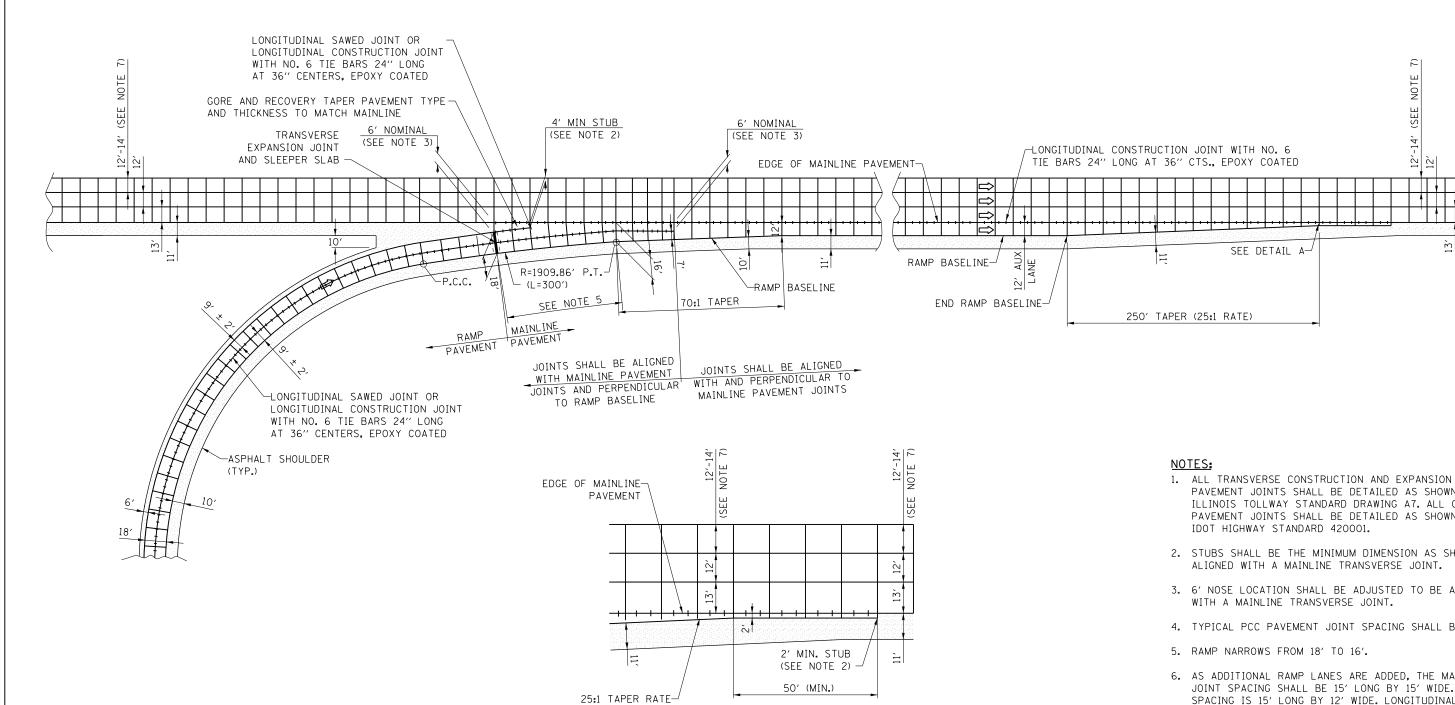
-NO. 7 LONGITUDINAL BARS

└NO. 4 TRANSVERSE BARS

BASELINE

PERPENDICULAR TO RAMP

PARALLELTO RAMP BASELINE



DETAIL A

- 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 MAINLINE TRANSVERSE JOINT.
- 4. TYPICAL PCC PAVEMENT JOINT SPACING SHALL BE 15'.
- 6. 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 WHEEL PATH SHALL BE MINIMIZED.
- 7. DIMENSION OF LANE 1 SHALL BE AS SHOWN ON THE

SHEET 1 OF 2

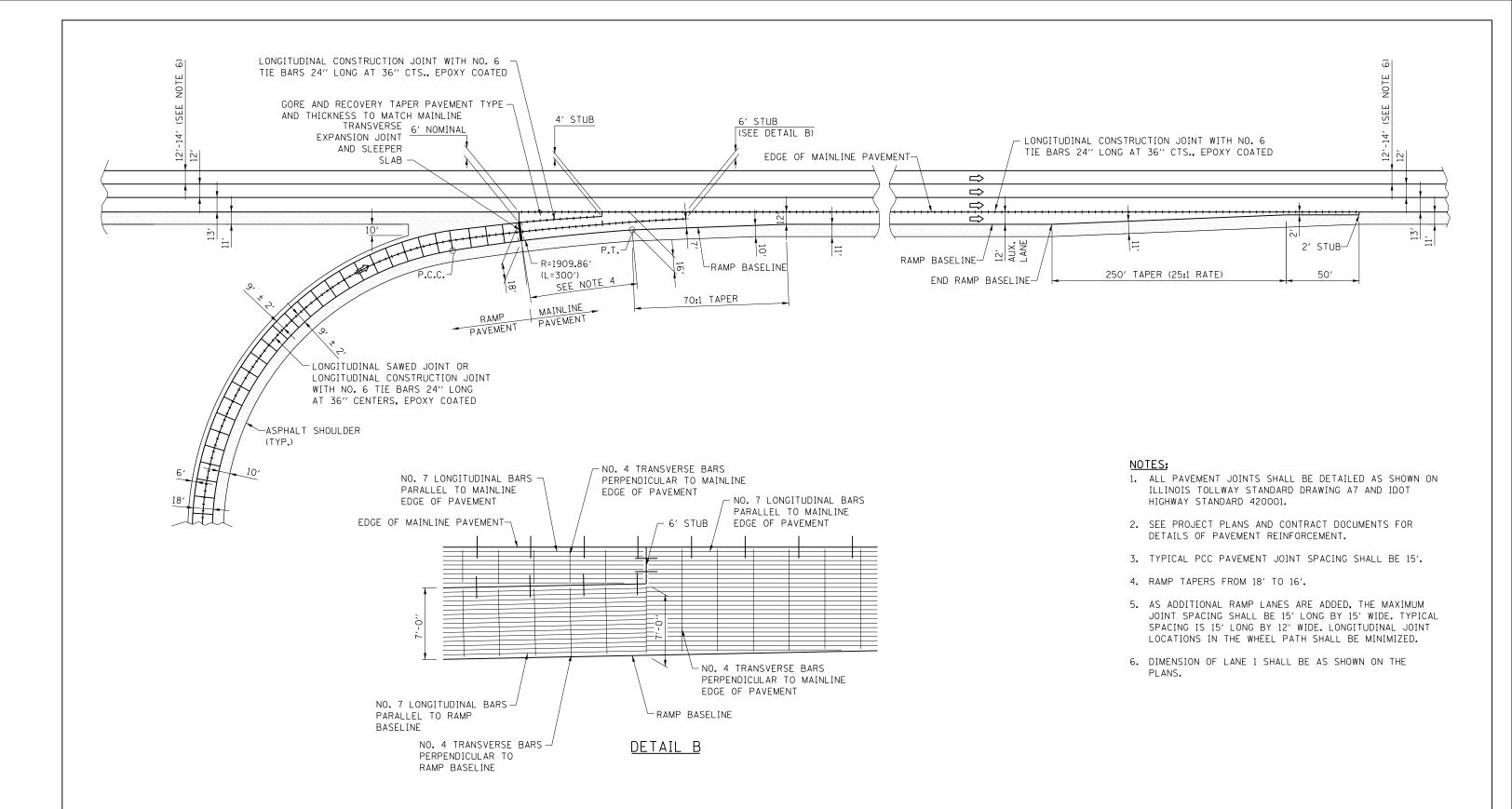


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13,

DATE REVISIONS JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL E BARS AT 36" CENTERS UPDATED SHOULDER TO 11'
PDATED DIMENSION LOOP RAMP ONLY NTRANCE LAYOUT UPDATE STANDARD A17-07

Paul Koracs 01/31/2015

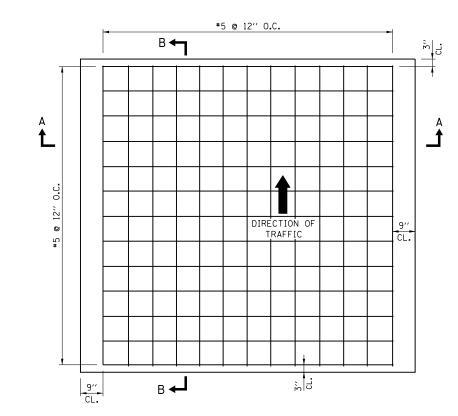


SHEET 2 OF 2

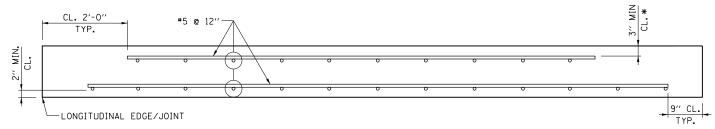


JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL LOOP RAMP ONLY

STANDARD A17-07



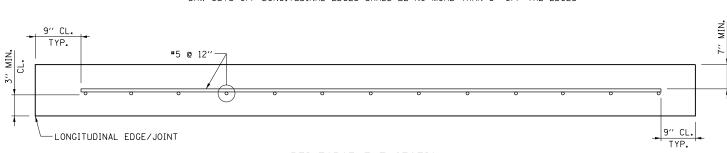
TYPICAL REINFORCEMENT DETAIL FOR STANDARD SLABS



REINFORCEMENT SECTION A-A

TWO MATS OF REINFORCEMENT SHALL BE FOR APPLICATION TO ALL CUSTOM SLABS GREATER THAN 6 FT. LONGITUDINAL LENGTH TO BE OPENED TO TRAFFIC BEFORE GROUTING IS COMPLETED

ALL BARS ARE TRIMMED TO FIT #5 BAR SAW CUTS OFF LONGITUDINAL EDGES SHALL BE NO MORE THAN 6" OFF THE EDGES



ONE MAT OF REINFORCEMENT SHALL BE FOR APPLICATION TO ALL STANDARD SLABS AND FOR ANY CUSTOM SLABS GREATER THAN 6 FT. LONGITUDINAL LENGTH TO BE OPENED TO TRAFFIC ONLY AFTER GROUTING IS COMPLETED.

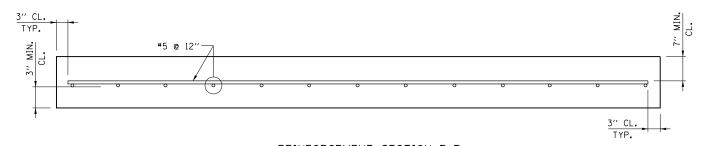
ALL BARS ARE TRIMMED TO FIT #5 BAR SAW CUTS OFF LONGITUDINAL EDGES SHALL BE NO MORE THAN 6" OFF THE EDGES

CL 2'-0" #5 @ 12'' TYP. 3" CL. TYP.

REINFORCEMENT SECTION B-B

TWO MATS OF REINFORCEMENT SHALL BE FOR APPLICATION TO ALL CUSTOM SLABS GREATER THAN 6 FT. LONGITUDINAL LENGTH TO BE OPENED TO TRAFFIC BEFORE GROUTING IS COMPLETED

ALL BARS ARE TRIMMED TO FIT #5 BAR



REINFORCEMENT SECTION B-B

ONE MAT OF REINFORCEMENT SHALL BE FOR APPLICATION TO ALL STANDARD SLABS AND FOR ANY CUSTOM SLABS GREATER THAN 6 FT. LONGITUDINAL LENGTH TO BE OPENED TO TRAFFIC ONLY AFTER GROUTING IS COMPLETED.

ALL BARS ARE TRIMMED TO FIT #5 BAR



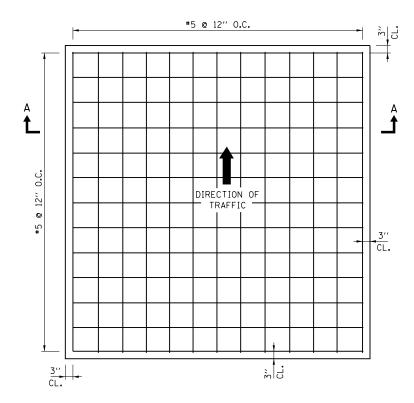
DATE	REVISIONS	
3-01-2019	REMOVED SHEETS 1,9,10,13,14,15,16	PRECAST PAVEMENT SLABS
	UPDATED NOTES 4,5,6,8,11,12	
3-01-2018	REVISED TEXT	
3-31-2016	REVISED NOTES; UPDATED CALLOUTS	
11-01-2012	REVISED NOTES	STANDARD A18-05
		I STANDAND AIG-US

REINFORCEMENT SECTION A-A

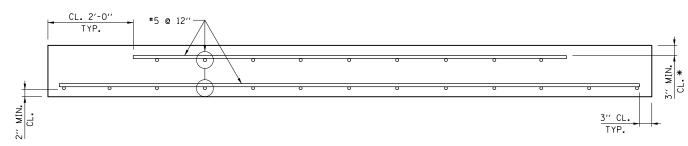
Paul Koracs 05/01/2009

NOTE:

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

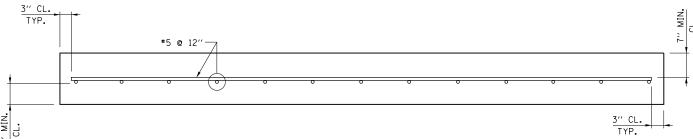


TYPICAL REINFORCEMENT DETAIL FOR CUSTOM SLABS



REINFORCEMENT SECTION A-A
TWO MATS OF REINFORCEMENT SHALL BE FOR APPLICATION TO ALL CUSTOM SLABS GREATER THAN 6 FT. LONGITUDINAL LENGTH TO BE OPENED TO TRAFFIC BEFORE GROUTING IS COMPLETED

ALL BARS ARE TRIMMED TO FIT #5 BAR



REINFORCEMENT SECTION A-A

ONE MAT OF REINFORCEMENT SHALL BE FOR APPLICATION TO
ALL STANDARD SLABS AND FOR ANY CUSTOM SLABS GREATER THAN 6 FT. LONGITUDINAL LENGTH TO BE OPENED TO TRAFFIC ONLY AFTER GROUTING IS COMPLETED.

ALL BARS ARE TRIMMED TO FIT #5 BAR

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.

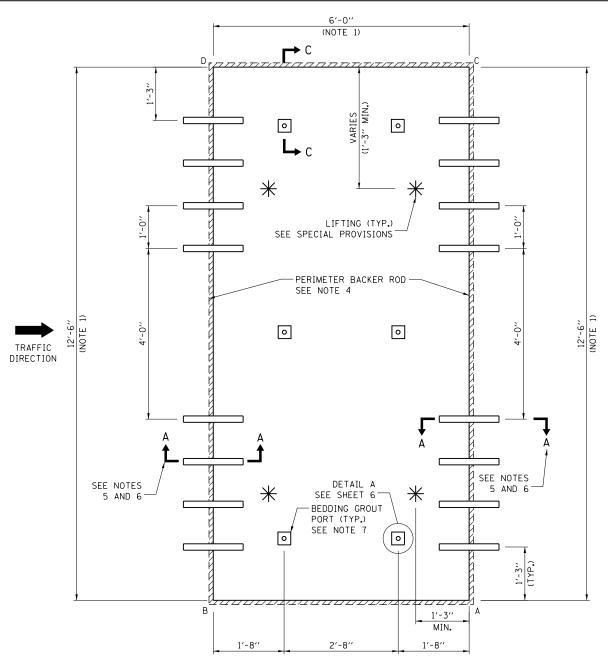
SHEET 2 OF 12



PRECAST PAVEMENT SLABS

STANDARD A18-05

Paul Yours



STANDARD 12'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH EMBEDDED DOWELS FOR PRECUT WIDE MOUTH SLOTS IN ADJACENT PAVEMENT

(NOTE 1) 0 LIFTING (TYP.) SEE SPECIAL PROVISIONS -PERIMETER BACKER ROD SEE NOTE 4 0 0 TRAFFIC DIRECTION DETAIL A SEE NOTES SEE NOTES SEE SHEET 6 5 AND 6 5 AND 6-BEDDING GROUT PORT (TYP.) SEE NOTE 7 0 1'-3'' MIN. 2'-8" 1'-8" 1'-8"

STANDARD 12'-6" WIDE PANEL LAYOUT FOR CONSECUTIVE PLACEMENT

* FOR INTERNAL CONSECUTIVE SLABS, PREFORMED SLOTS IN ACCORDANCE WITH SECTION B-B OF SHEET 4 MAY BE USED IN PLACE OF EMBEDDED DOWELS OR OF FIELD RETROFITTED DOWEL BARS WITH SAWCUT SLOTS. ALL PREFORMED SLOTS MUST BE FILLED BEFORE BEING OPENED TO TRAFFIC.

- 1. THE WIDTH AND LENGTH OF PRODUCED SLABS SHALL BE THE INDICATED DIMENSIONS $\pm 1/8$ ".
- 2. FOR MIDDLE LANE SLAB OPENINGS/PATCHES LESS THAN 12'-6" IN WIDTH AND GREATER THAN 11'-6" IN WIDTH, THE STANDARD PRECAST SLAB CAN BE SAW CUT ON-SITE TO FIT THE OPENING AND TO MAINTAIN ALIGNMENT WITH EXISTING LONGITUDINAL JOINTS, OTHERWISE, THE SLAB PATCH LOCATION MUST BE PRESURVEYED BY THE CONTRACTOR AND THE SLAB FABRICATED AS A CUSTOM SLAB.
- 3. SLAB THICKNESS SHALL BE $11\frac{1}{2}$ " $\pm \frac{1}{8}$ ".
- 4. A FOAM BACKER ROD SHALL BE PLACED AROUND THE OUTSIDE PERIMETER OF THE SLAB AT THE BOTTOM OF THE JOINTS BEFORE THE SLAB HAS BEEN SET AND BEFORE BEDDING GROUT OR POLYURETHANE LEVELING FILL IS APPLIED. THE BACKER ROD SHALL NOT BE REQUIRED WHEN ANY SLAB IS LEVELED WITH FLOWABLE FILL.
- 5. SEE SHEET 6 FOR SECTION DETAILS.
- 6. IT SHALL BE THE CONTRACTOR'S OPTION TO REPLACE ANY EMBEDDED DOWEL BARS OR PREFORMED SLOTS AS SHOWN ON THESE DRAWINGS WITH FULLY RETROFITTED DOWEL BARS FIELD INSTALLED IN ACCORDANCE WITH "DETAIL C" OF SHEET 13. THE CONTRACTOR SHALL USE AN APPROVED TEMPLATE TO LOCATE THE SAW CUTS
 REQUIRED FOR PROPER SPACING AND RETROFITTING OF THE DOWEL BARS IN ACCORDANCE WITH THESE DRAWINGS. DIAMOND BLADED GANG SAWS SHALL BE USED TO MAKE SAW CUTS PERPENDICULAR TO THE TRANSVERSE (NONSKEWED) JOINT LINE TO ALLOW FOR DOWEL BAR PLACEMENTS WITHIN THE SPECIFIED TOLERANCES.
- 7. SEE "PRECAST REPLACEMENT OF CONCRETE PAVEMENT SLABS" (ILLINOIS TOLLWAY) SPECIAL PROVISION FOR LOCATING BEDDING GROUT PORTS.

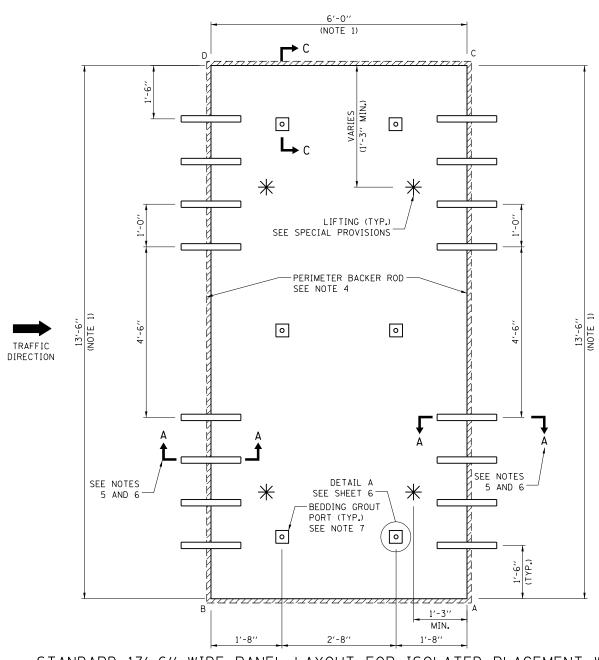
SHEET 3 OF 12



PRECAST PAVEMENT SLABS

STANDARD A18-05

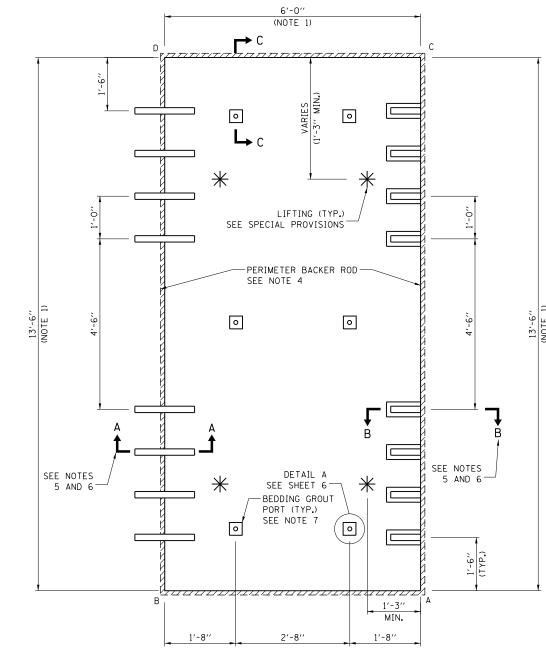
Paul Koracs



STANDARD 13'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH EMBEDDED DOWELS FOR PRECUT WIDE MOUTH SLOTS IN ADJACENT PAVEMENT.

NOTES:

- 1. THE WIDTH AND LENGTH OF PRODUCED SLABS SHALL BE THE INDICATED DIMENSIONS $\pm 1/8$ ".
- 2. FOR MIDDLE LANE SLAB OPENINGS/PATCHES LESS THAN 13'-6" IN WIDTH AND GREATER THAN 12'-6" IN WIDTH, THE STANDARD PRECAST SLAB CAN BE SAW CUT ON-SITE TO FIT THE OPENING AND TO MAINTAIN ALIGNMENT WITH EXISTING LONGITUDINAL JOINTS. OTHERWISE, THE SLAB PATCH LOCATION MUST BE PRESURVEYED BY THE CONTRACTOR AND THE SLAB FABRICATED AS A CUSTOM SLAB.
- 3. SLAB THICKNESS SHALL BE $11\frac{1}{2}$ " $\pm \frac{1}{8}$ ".
- 4. A FOAM BACKER ROD SHALL BE PLACED AROUND THE OUTSIDE PERIMETER OF THE SLAB AT THE BOTTOM OF THE JOINTS BEFORE THE SLAB HAS BEEN SET AND BEFORE BEDDING GROUT OR POLYURETHANE LEVELING FILL IS APPLIED. THE BACKER ROD SHALL NOT BE REQUIRED WHEN ANY SLAB IS LEVELED WITH FLOWABLE FILL.
- 5. SEE SHEET 6 FOR SECTION DETAILS.
- 6. IT SHALL BE THE CONTRACTOR'S OPTION TO REPLACE ANY EMBEDDED DOWEL BARS OR PREFORMED SLOTS AS SHOWN ON THESE DRAWINGS WITH FULLY RETROFITTED DOWEL BARS FIELD INSTALLED IN ACCORDANCE WITH "DETAIL C" OF SHEET 13. THE CONTRACTOR SHALL USE AN APPROVED TEMPLATE TO LOCATE THE SAW CUTS REQUIRED FOR PROPER SPACING AND RETROFITTING OF THE DOWEL BARS IN ACCORDANCE WITH THESE DRAWINGS. DIAMOND BLADED GANG SAWS SHALL BE USED TO MAKE SAW CUTS PERPENDICULAR TO THE TRANSVERSE (NONSKEWED) JOINT LINE TO ALLOW FOR DOWEL BAR PLACEMENTS WITHIN THE SPECIFIED TOLERANCES.
- 7. SEE "PRECAST REPLACEMENT OF CONCRETE PAVEMENT SLABS" (ILLINOIS TOLLWAY) SPECIAL PROVISION FOR LOCATING BEDDING GROUT PORTS.



TRAFFIC DIRECTION

STANDARD 13'-6" WIDE PANEL LAYOUT FOR CONSECUTIVE PLACEMENT

* FOR INTERNAL CONSECUTIVE SLABS, PREFORMED SLOTS IN ACCORDANCE WITH SECTION B-B OF SHEET 4 MAY BE USED IN PLACE OF EMBEDDED DOWELS OR OF FIELD RETROFITTED DOWEL BARS WITH SAWCUT SLOTS. ALL PREFORMED SLOTS MUST BE FILLED BEFORE BEING OPENED TO TRAFFIC.

SHEET 4 OF 12



PRECAST PAVEMENT SLABS

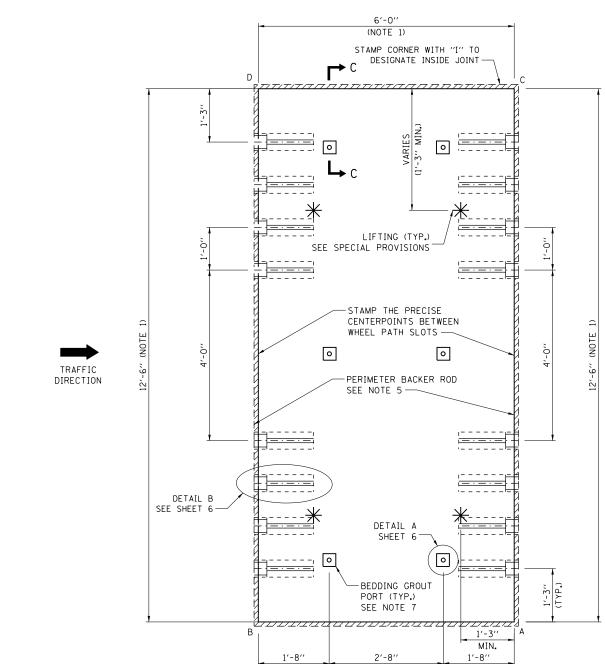
STANDARD A18-05

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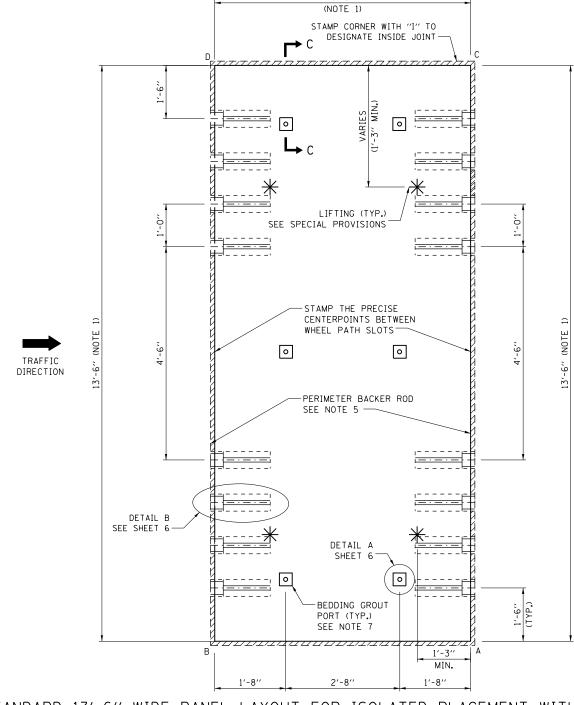
DATE:

DOING
CHIEF ENGINEERING OFFICER

05/01/2009



STANDARD 12'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH NARROW MOUTH PREFORMED DOWEL SLOTS TO ALIGN WITH PRE-DRILLED HOLES IN ADJACENT PAVEMENT.



6'-0''

STANDARD 13'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH NARROW MOUTH PREFORMED DOWEL SLOTS TO ALIGN WITH PRE-DRILLED HOLES IN ADJACENT PAVEMENT.

NOTES:

- 1. THE WIDTH AND LENGTH OF PRODUCED SLABS SHALL BE THE INDICATED DIMENSIONS $\pm~1/8$ ".
- 2. FOR MIDDLE LANE SLAB OPENINGS/PATCHES LESS THAN 12'-6" IN WIDTH AND GREATER THAN 11'-6" IN WIDTH, THE 12'-6" WIDE STANDARD PRECAST SLAB CAN BE SAW CUT ON-SITE TO FIT THE OPENING AND TO MAINTAIN ALIGNMENT WITH EXISTING LONGITUDINAL JOINTS. OTHERWISE, THE SLAB PATCH LOCATION MUST BE PRESURVEYED BY THE CONTRACTOR AND THE SLAB FABRICATED AS A CUSTOM SLAB.
- 3. FOR MIDDLE LANE SLAB OPENINGS/PATCHES LESS THAN 13'-6" IN WIDTH AND GREATER THAN 12'-6" IN WIDTH, THE 13'-6" WIDE STANDARD PRECAST SLAB CAN BE SAW CUT ON-SITE TO FIT THE OPENING AND TO MAINTAIN ALIGNMENT WITH EXISTING LONGITUDINAL JOINTS. OTHERWISE, THE SLAB PATCH LOCATION MUST BE PRESURVEYED BY THE CONTRACTOR AND THE SLAB FABRICATED AS A CUSTOM SLAB.
- 4. SLAB THICKNESS SHALL BE $11\frac{1}{2}$ " $\pm\frac{1}{8}$ ".
- 5. A FOAM BACKER ROD SHALL BE PLACED AROUND THE OUTSIDE PERIMETER OF THE SLAB AT THE BOTTOM OF THE JOINTS BEFORE THE SLAB HAS BEEN SET AND BEFORE BEDDING GROUT OR POLYURETHANE LEVELING FILL IS APPLIED. THE BACKER ROD SHALL NOT BE REQUIRED WHEN ANY SLAB IS LEVELED WITH FLOWABLE FILL.
- 6. SEE SHEET 6 FOR SECTION DETAILS.
- 7. SEE "PRECAST REPLACEMENT OF CONCRETE PAVEMENT SLABS" (ILLINOIS TOLLWAY) SPECIAL PROVISION FOR LOCATING BEDDING GROUT PORTS.

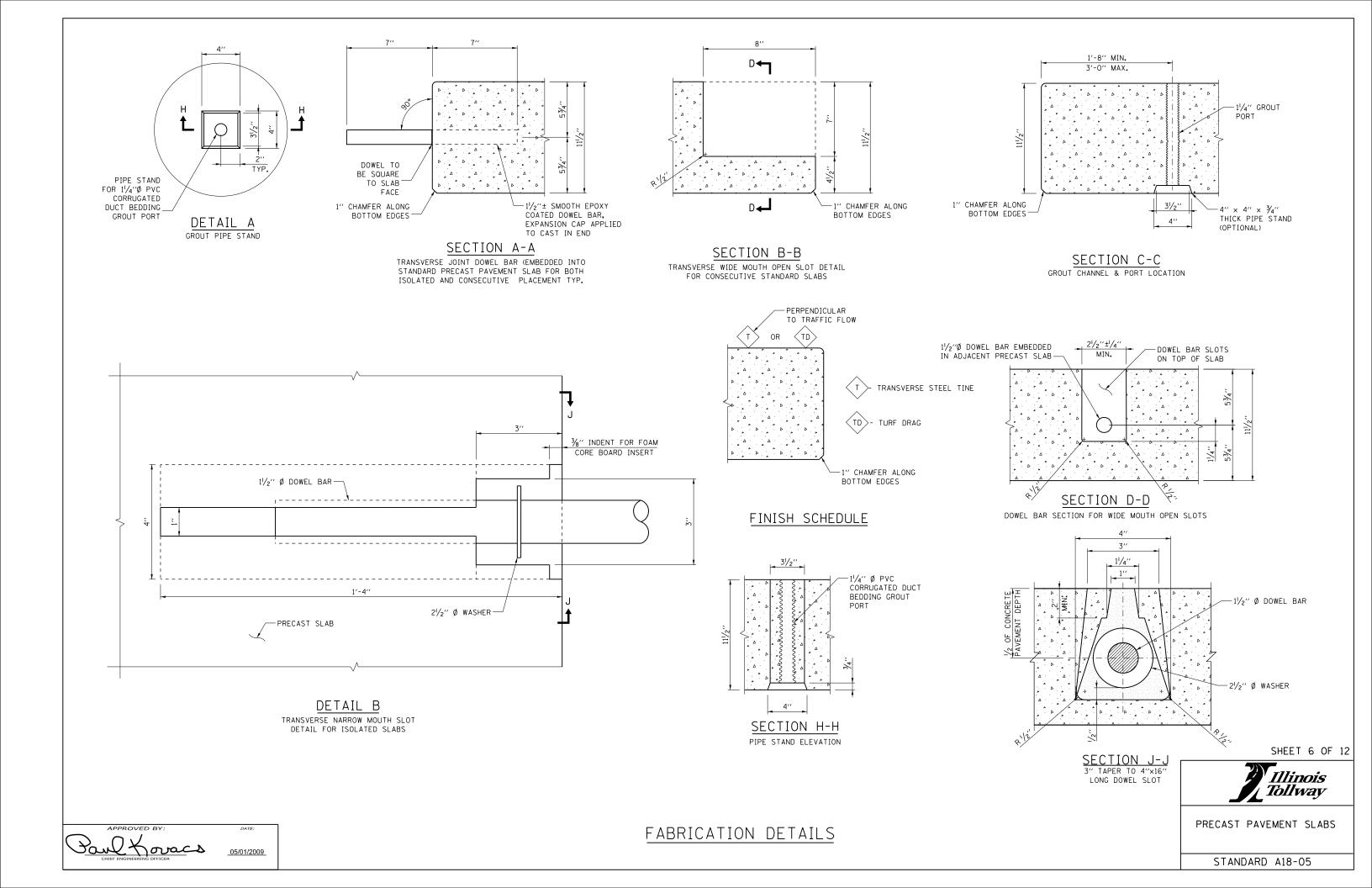
SHEET 5 OF 12



PRECAST PAVEMENT SLABS

Paul Koracs 05/01/2009

STANDARD A18-05



FOR NON-STANDARD SLABS, UPON COMPLETION BY THE CONTRACTOR A SLAB LAYOUT WILL BE ADDED WITH SLAB DIMENSIONS TO INCLUDE BUT NOT BE LIMITED TO THE TABLE SHOWN BELOW.

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ш		MAINLINE LANE NO.	DAME	RAMP	IE PLAZA	PLAZA LANE NO.		LANE TYP.	VARIABLES (FT.)				AD *	BD •	CD.	AC*	ADEA	V/01 LINE	WEIGHT	DIAGONA	LS (FT.
AMPLE	CORRIDOR		RAMP ID.	LANE NO.					AB (FT.)	AC (FT.)	BD (FT.)	CD (FT.)	AB* SIDE	BD • SIDE	SIDE		AREA (SQ.FT.)	(CU. FT.)	(TONS)	AD	ВС
EX																					

MAINLINE LANE NO.: RAMP LANE NO.: PLAZA LANE NO.: MARK NO.: LANE TYP.:

LANE NO 1 IS ADJACENT TO MEDIAN SHOULDER.
LANE NO 1 IS ADJACENT TO THE BUILDING
LANE NO 1 IS ADJACENT TO THE BUILDING
EACH PANEL SHALL BE INDIVIDUALLY MARKED FOR COP

EACH PANEL SHALL BE INDIVIDUALLY MARKED FOR CORRECT PLACEMENT.
"OUT" IN THIS COLUMN INDICATES OUTSIDE LANE.
"MID" IN THIS COLUMN INDICATES MIDDLE LANE.
"IN" IN THIS COLUMN INDICATES INSIDE LANE
"PLAZA" IN THIS COLUMN INDICATES PLAZA LANE.

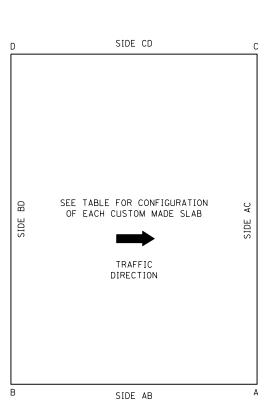
* LEGEND

DB= DOWEL BAR EMBEDDED

DS= DOWEL SLOT

ST= SLOT OR HOLE FOR STITCHED TIE BAR

RD= FIELD RETROFITTED DOWEL BARS

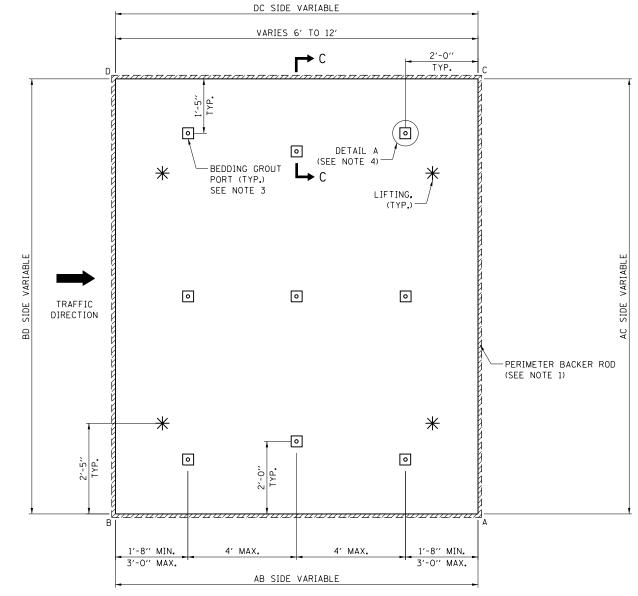


LAYOUT FOR CUSTOM SLABS

LAYOUT KEY

NOTES:

- 1. A FOAM BACKER ROD SHALL BE PLACED AROUND THE OUTSIDE PERIMETER OF THE SLAB AT THE BOTTOM OF THE JOINTS BEFORE THE SLAB HAS BEEN SET AND BEFORE BEDDING GROUT OR POLYURETHANE LEVELING FILL IS APPLIED. THE BACKER ROD SHALL NOT BE REQUIRED WHEN ANY SLAB IS LEVELED WITH A FLOWABLE FILL.
- 2. EITHER SINGLE DIAMOND BLADED SAWS OR DIAMOND BLADED GANG SAWS SHALL BE USED TO MAKE THE SAW CUTS PERPENDICULAR TO THE TRANSVERSE (NONSKEWED) JOINT LINE TO ALLOW FOR DOWEL BAR PLACEMENTS WITHIN THE SPECIFIED TOLERANCES.
- SEE "PRECAST REPLACEMENT OF CONCRETE PAVEMENT SLABS" (ILLINOIS TOLLWAY) SPECIAL PROVISION FOR LOCATING BEDDING GROUT PORTS.
- 4. SEE SHEET 6 FOR SECTION DETAILS.



LAYOUT DETAIL FOR CUSTOM
SLABS 6'-12' IN LENGTH
(VARIED WIDTH**)

**FOR TRAPEZOID SLABS MINIMUM WIDTH IS 2 FT. WITH MAXIMUM WIDTH OF 16 FT.

SHEET 7 OF 12



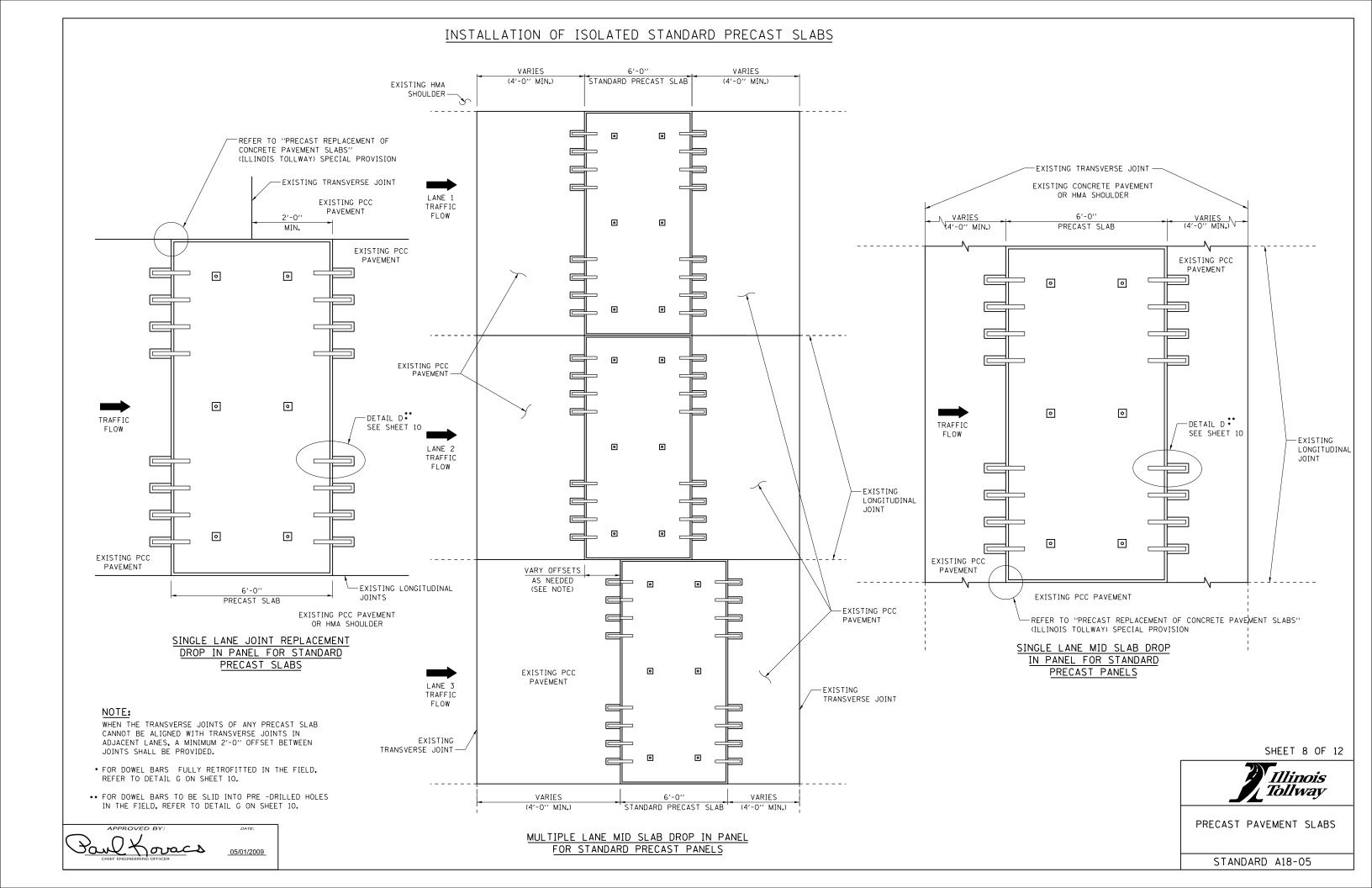
PRECAST PAVEMENT SLABS

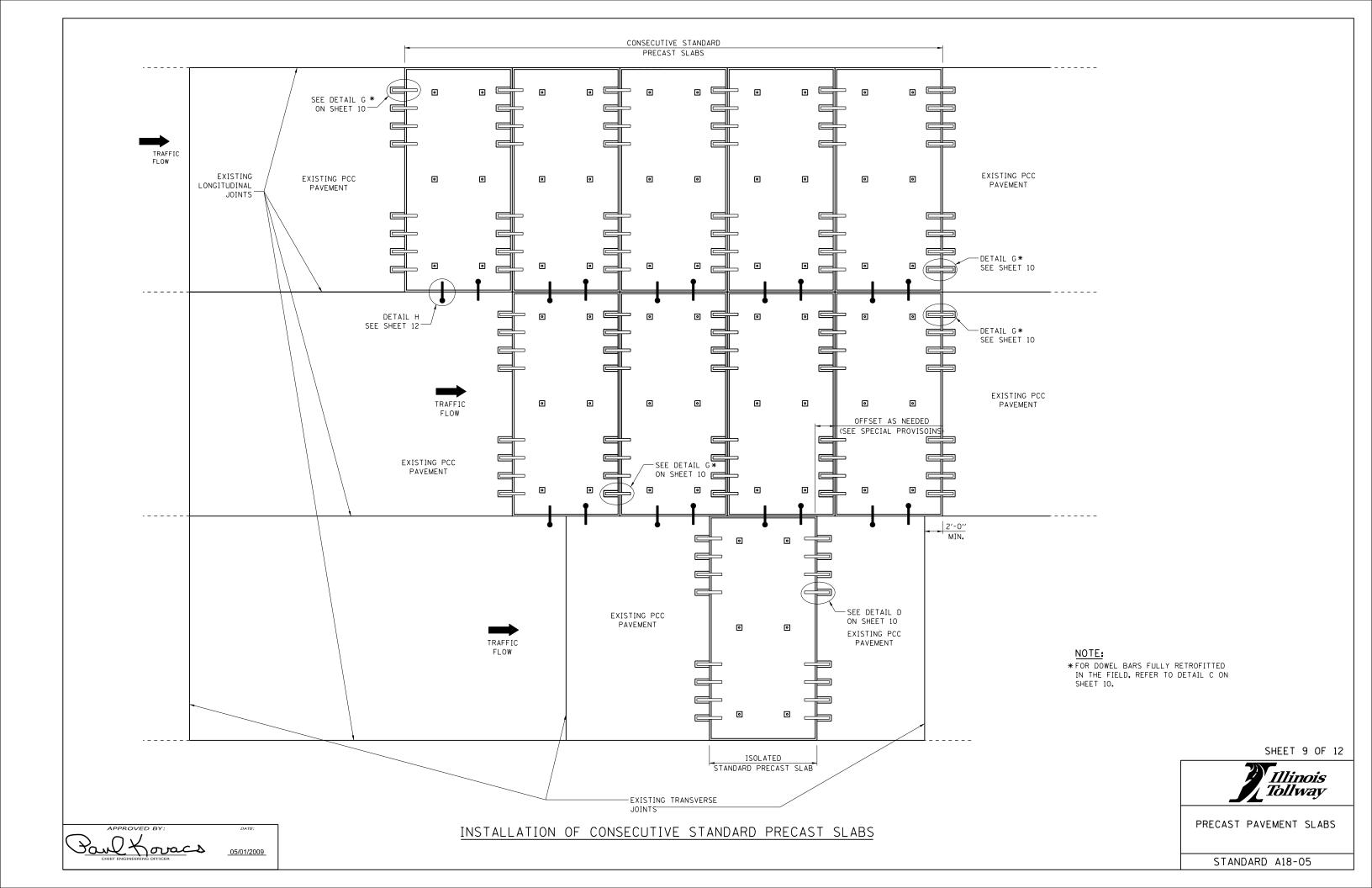
STANDARD A18-05

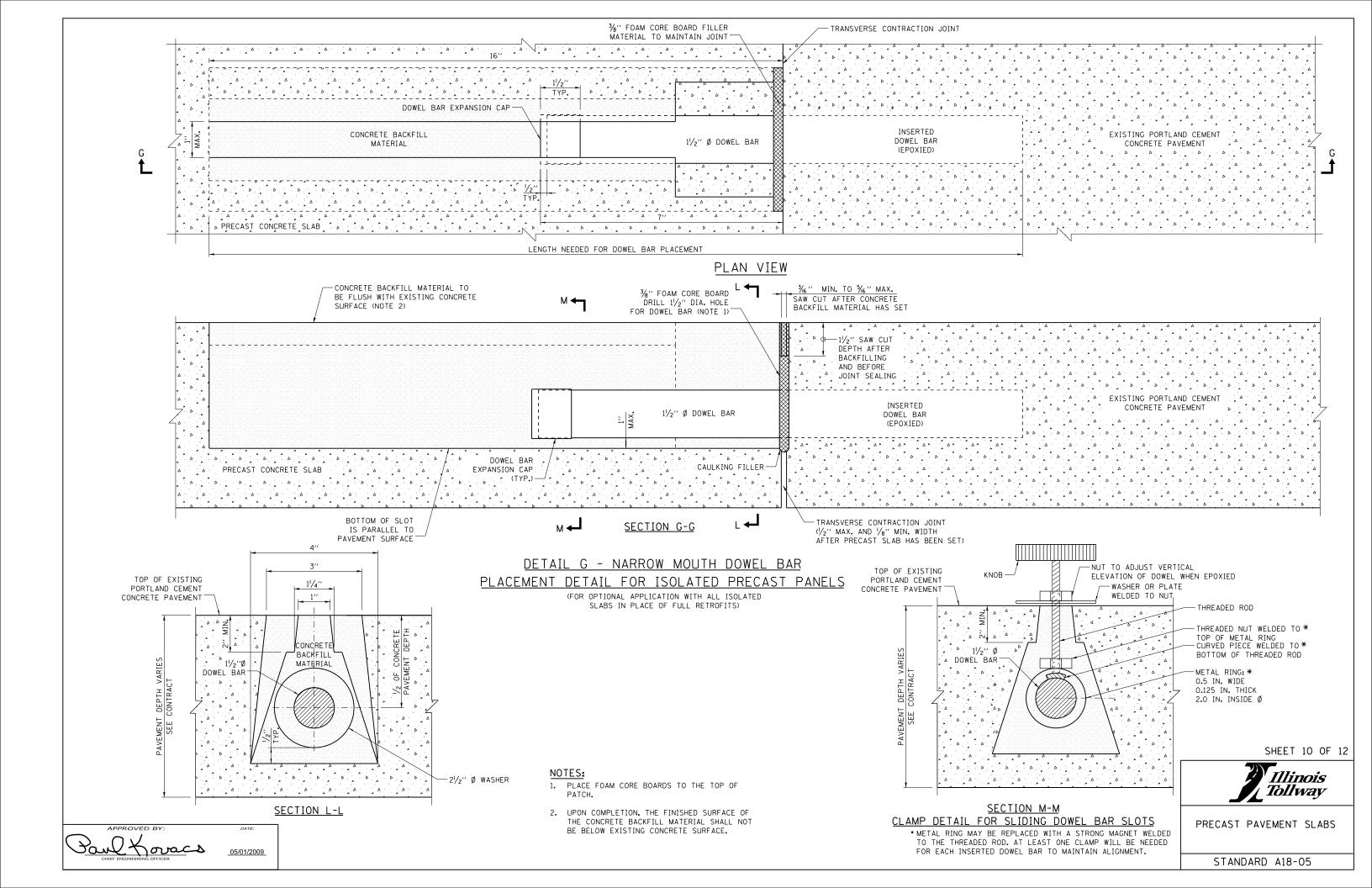
POWER PROJECT BY:

DATE:

05/01/2009







FOR NON-STANDARD SLABS, UPON COMPLETION BY THE CONTRACTOR A SLAB LAYOUT WILL BE ADDED WITH SLAB DIMENSIONS TO INCLUDE BUT NOT BE LIMITED TO THE TABLE SHOWN BELOW.

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1.1		STATION NUMBER	MAINLINE LANE NO.	RAMP ID.	RAMP LANE NO.	PLAZA NO.	ZA PLAZA LANE NO. MARI	4		VARIABLES										AR*	* RD*	CD **	A C * A D F A	ADEA	V01.11145	WEIGHT	DIAGONA	LS (FT.)				
AMPLE	HAMP CORRIDOR							WALKI	TYP.	AB (FT.)	AC (FT.)	BD (FT.)	CD (FT.)	P (NO.)	Q (FT.)	R (FT.)	S (NO.)	T (NO.)	V (NO.)	W (FT.)	X (F T.)	Y (FT.)	Z (FT.)	SIDE	SIDE	SIDE	SIDE (SQ.F	(SQ.FT.)	(CU. FT.)	(TONS)	AD	ВС
\simeq																																

MAINLINE LANE NO .: RAMP LANE NO .: PLAZA LANE NO .: MARK NO .: LANE TYP.:

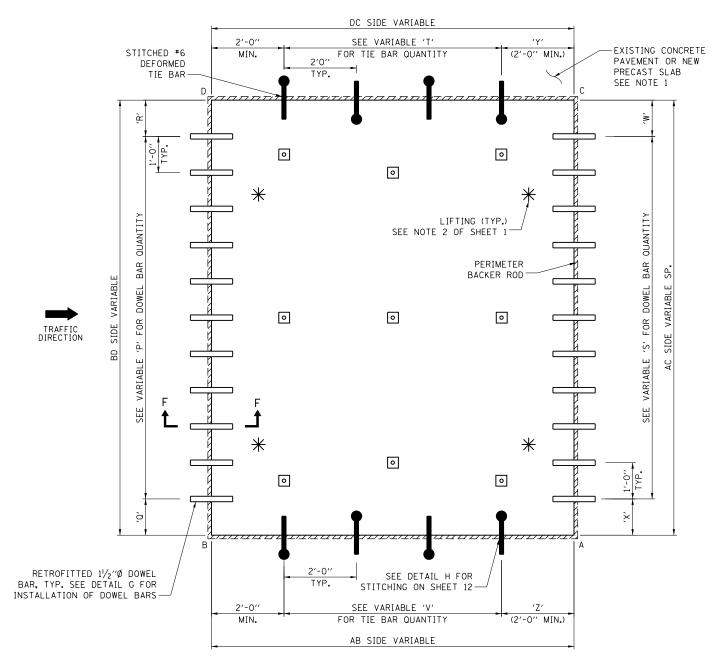
LANE NO. 1 IS ADJACENT TO MEDIAN SHOULDER. LANE NO. 1 IS ADJACENT TO THE BUILDING LANE NO. 1 IS ADJACENT TO THE BUILDING EACH PANEL SHALL BE INDIVIDUALLY MARKED FOR CORRECT PLACEMENT. "OUT" IN THIS COLUMN INDICATES OUTSIDE LANE. "MID" IN THIS COLUMN INDICATES MIDDLE LANE. "IN" IN THIS COLUMN INDICATES INSIDE LANE "PLAZA" IN THIS COLUMN INDICATES PLAZA LANE.

* LEGEND

DB= DOWEL BAR EMBEDDED

DS= DOWEL SLOT ST= SLOT OR HOLE FOR STITCHED TIE BAR

RD= FIELD RETROFITTED DOWEL BARS



INSTALLATION DETAIL FOR CUSTOM SLABS

NOTES:

- 1. NO STITCHING OF DEFORMED TIE BARS IS REQUIRED WHEN PRECAST SLAB IS PLACED ADJACENT TO HMA SHOULDER OR PLAZA ISLAND.
- 2. TIE BAR STITCHING SHALL BE REQUIRED WHEN THE REPAIR AREA LENGTH EXCEEDS 20 FT. OR WHEN MORE THAN 3 PRECAST SLABS ARE PLACED IN SEQUENCE.
- 3. SHOP DRAWINGS SHALL BE REQUIRED FOR ALL CUSTOM PLAZA SLABS.

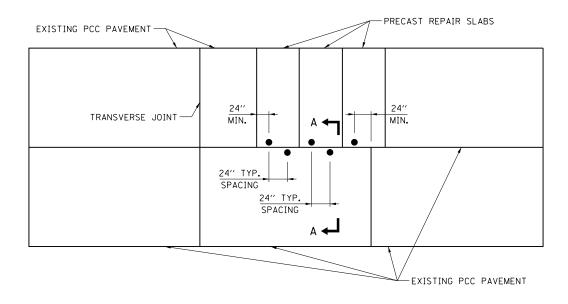
SHEET 11 OF 12



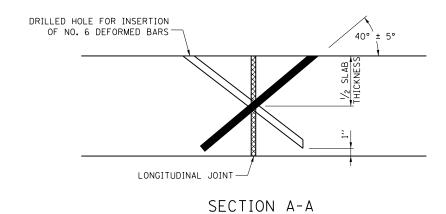
PRECAST PAVEMENT SLABS

STANDARD A18-05

Paul Koracs 05/01/2009



DETAIL H - LONGITUDINAL TIE BAR STITCHING FOR PRECAST PANELS



NOTES FOR TIE BAR STITCHING:

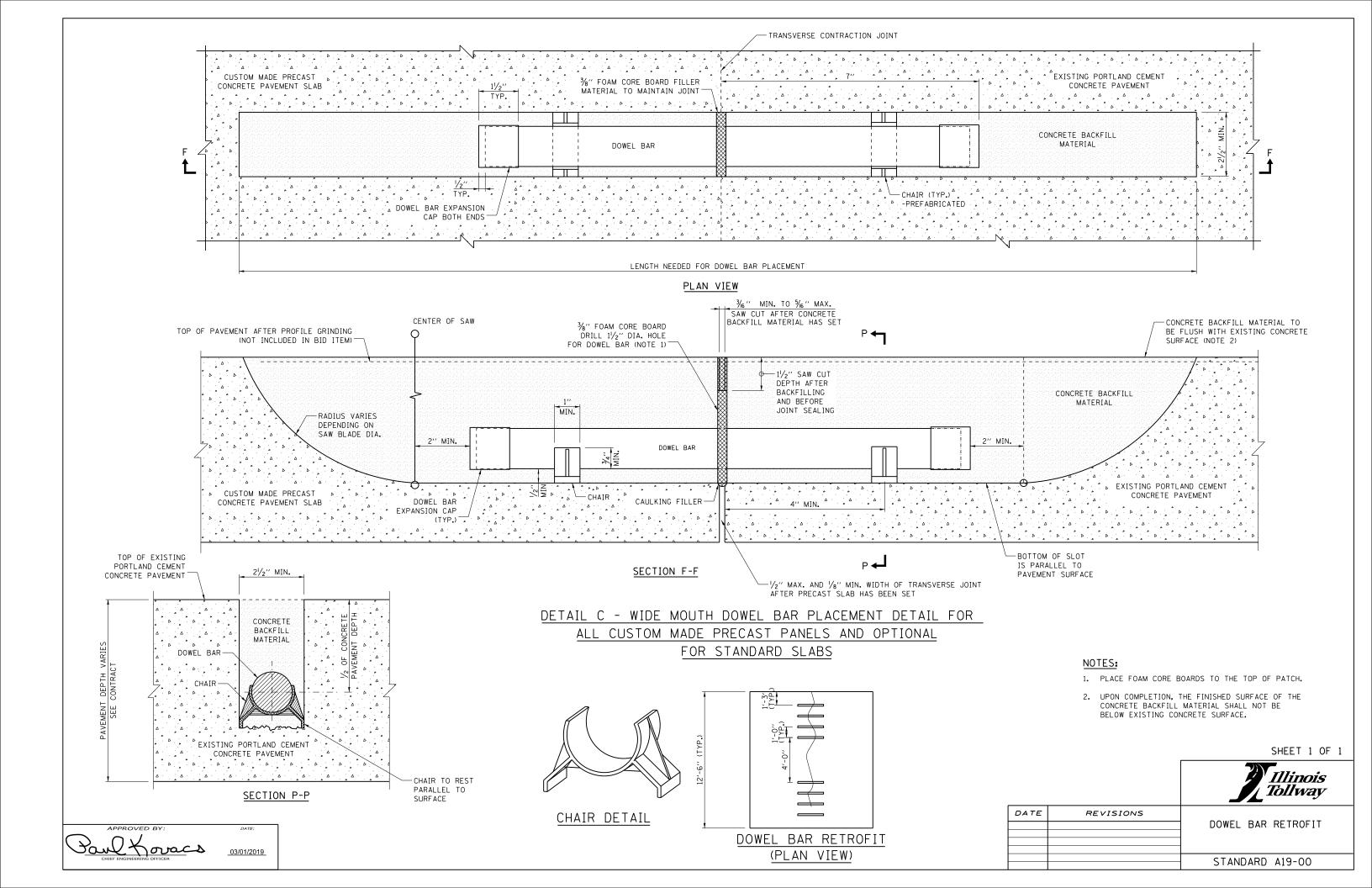
- 1. DRILL HOLES THAT ARE ORIENTED AT 40° ± 5° ANGLE TO THE PAVEMENT SURFACE SO THAT THEY INTERSECT THE LONGITUDINAL CRACK OR JOINT AT ABOUT MID-DEPTH. (IT IS IMPORTANT TO START DRILLING THE HOLE AT A CONSISTENT DISTANCE FROM THE JOINT, IN ORDER TO CONSISTENTLY CROSS AT THE MID-DEPTH OF THE SLAB.)
- 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.
- AIR BLOW THE HOLES TO REMOVE DUST AND DEBRIS AFTER DRILLING.
- 7. 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

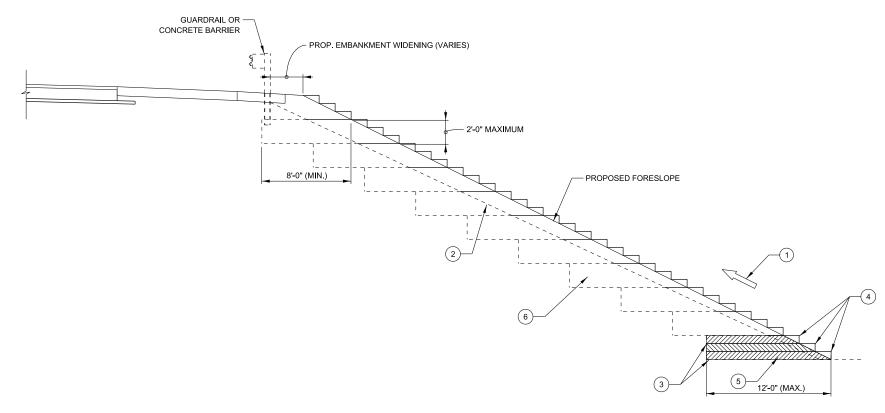
SHEET 12 OF 12



PRECAST PAVEMENT SLABS

STANDARD A18-05





TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIR STEP FASHION.
- 2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- 3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- 4. TRIM TO FINAL SLOPE.
- EQUAL 8-INCH LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- 6. EXCAVATION OF BENCH CUTS FOR EMBANKMENT WIDENING WITHIN EXISTING EMBANKMENT WILL BE INCIDENTAL TO THE CONTRACTS EARTH EXCAVATION.
- 7. SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 1:4(V:H) AND THE HEIGHT IS GREATER THAN 5'.
- 8. SOILS EXCAVATED FOR BENCHING THAT ARE TYPE 1 AND ARE TO BE DISPOSED OFF-SITE, SHALL BE PAID FOR AS NON-SPECIAL WASTE DISPOSAL, TYPE 1.



	REVISIONS							
DATE	DESCRIPTION	BENCHING DETAIL FOR						
		EMB	EMBANKMENT WIDENING					
		VERSION:	STANDARD:	SHEE				
		2022-03	A20-00	1 OF				

