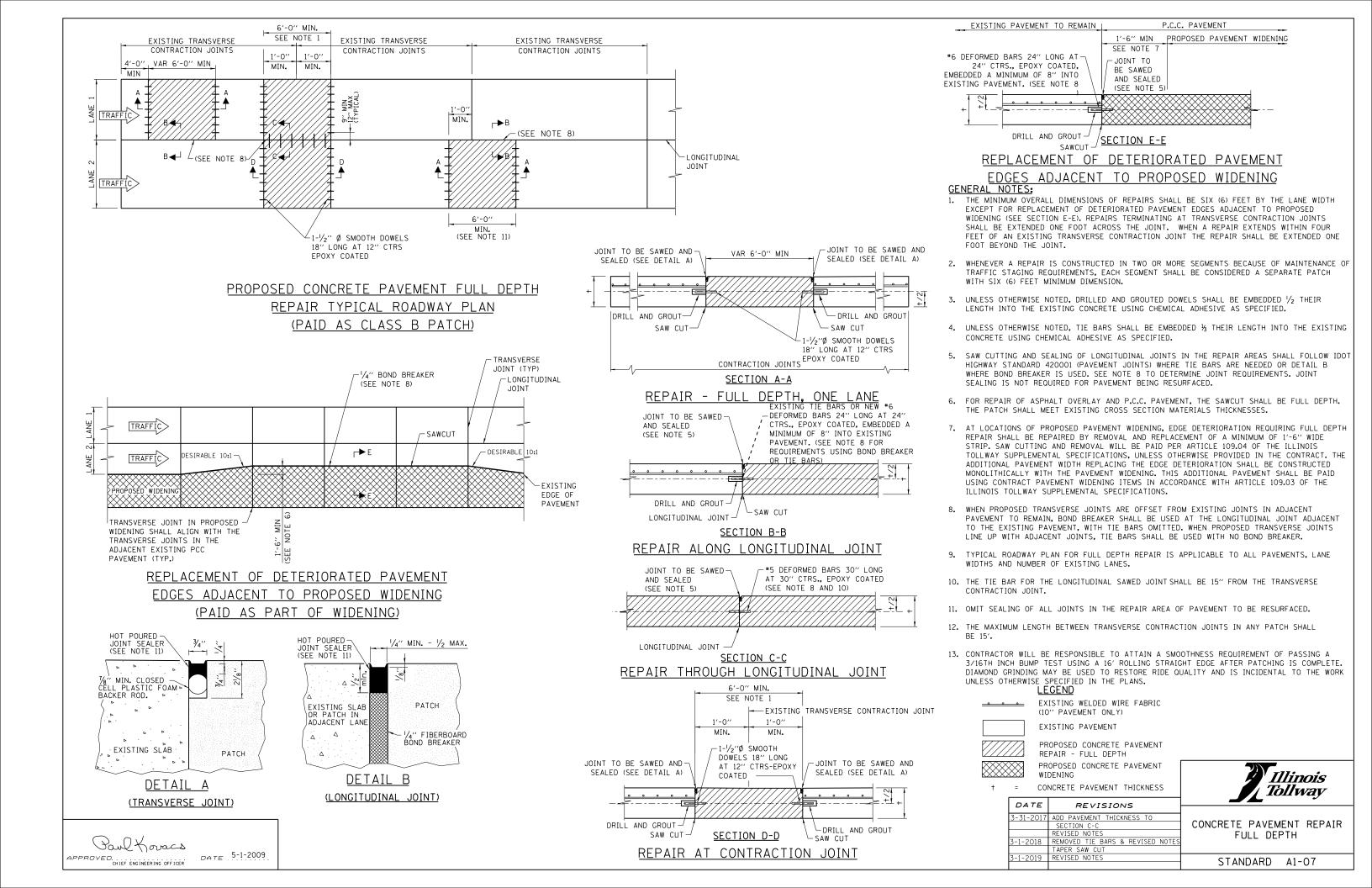
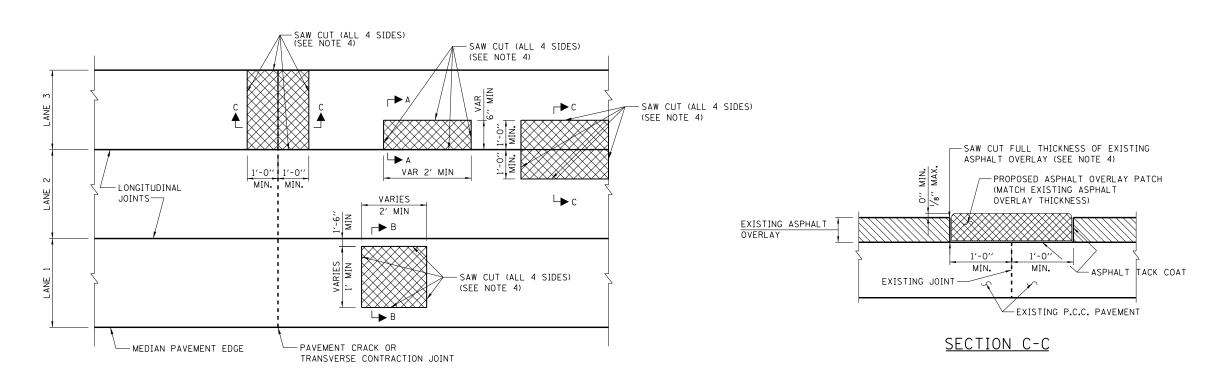
Illinois Tollway Standard Drawing Revisions

| Roadway I | |
|-----------|---|
| Standar | d Modification Summary Effective: 03-01-2019 |
| A1-07 | CONCRETE PAVEMENT REPAIR FULL DEPTH |
| A1-07 | Split note 3 into two notes. Dowels embedded 1/2 length, Tie bars embedded 1/3 length. |
| | Note 13 adjusted to remove IRI requirement and change to straight edge form of measurement. |
| | Updated note 6 for grammar. |
| | Updated and clarified note 7 intent. |
| A2-06 | ASPHALT OVERLAY REPAIR |
| A2-00 | Removed extra note. |
| A12-00 | JOINTING PLAN ENTRANCE RAMP TERMINAL WITH AUXILIARY LANE SHEET 1 AND 2 |
| A12-00 | Add detail sheet similar to RDC manual. |
| A13-02 | JOINTING PLAN EXIT RAMP TERMINAL WITH AUXILIARY LANE SHEET 1 |
| A10 02 | Updated Detail A and B to show min distance correctly. |
| A13-02 | JOINTING PLAN EXIT RAMP TERMINAL WITH AUXILIARY LANE SHEET 2 |
| A10-02 | Added sheet for PCC ramp adjacent to C.R.C. Mainline pavement. |
| A14-05 | JOINTING PLAN ENTRANCE RAMP TERMINAL SHEET 1 |
| A17 00 | Updated Detail A to show min distance correctly. |
| | Updated taper rates for min and desired. |
| A14-05 | JOINTING PLAN ENTRANCE RAMP TERMINAL SHEET 2 |
| A14 00 | Updated taper rates for min and desired. |
| A15-05 | JOINTING PLAN EXIT RAMP TERMINAL SHEET 1 |
| 71.0 00 | Updated Detail B to show min distance correctly. |
| | Updated 11' min stub at gore. |
| A15-05 | JOINTING PLAN EXIT RAMP TERMINAL SHEET 2 |
| | Updated 11' min Stub at gore. |
| A16-05 | JOINTING PLAN PARALLEL EXIT RAMP TERMINAL SHEET 1 |
| | Updated Detail A and B to show min distance correctly. |
| | Added 150' taper to note 5 and taper note on plan view. |
| A16-05 | JOINTING PLAN PARALLEL EXIT RAMP TERMINAL SHEET 2 |
| | Added 150' taper to note 3 and taper note on plan view. |
| A17-05 | JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL SHEET 1 |
| | Revised gore area. |
| A17-05 | JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL SHEET 2 |
| | Revised gore area. |
| A18-05 | PRECAST PAVEMENT SLABS |
| | Deleted sheet 1, 9, 10 removed and added to a Specification |
| | Sheet 3 add direction arrow. |
| | Deleted sheets 13, 14, 15, 16. Limits dowel bar replacement options. |
| | Updated note 7 to refer to supplemental specs on sheet 4,5,6 |
| | Updated note 3 to refer to supplemental specs on sheet 8 |
| | Updated notes to refer to supplemental specs on sheet 11,12 |
| A19-00 | Dowel Bar Retrofit |
| | Added sheet for Dowel bar retrofit. |

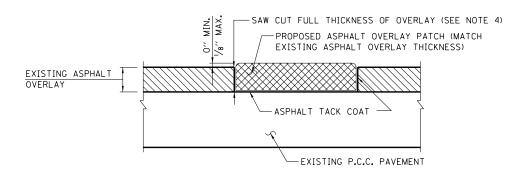








PROPOSED ASPHALT OVERLAY REPAIR TYPICAL ROADWAY PLAN



SECTION A-A & B-B 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.
- 5. PROPOSED ASPHALT OVERLAY PATCH MATERIAL SHALL BE IN ACCORDANCE WITH ILLINOIS TOLLWAY SPECIAL PROVISION "ASPHALT PATCHING OF MAINLINE OVERLAYS".

LEGEND

EXISTING OR PROPOSED ASPHALT OVERLAY

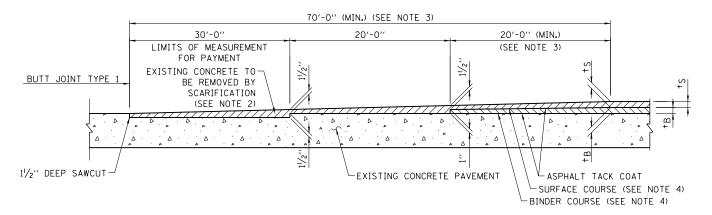


PROPOSED PAVEMENT REPAIR



| DATE | REVISIONS | |
|-----------|--|------------------------|
| 3-11-2015 | REMOVED PARTIAL DEPTH PAVEMENT REPAIR. | ASPHALT OVERLAY REPAIR |
| 3-31-2016 | REVISED PRIME COAT TO TACK COAT, ADDED | |
| | SECTION C-C AND PATCHES ACROSS JOINTS. | |
| 3-31-2017 | REVISED SPECIAL PROVISION REFERENCE | |
| 3-1-2019 | REVISED NOTES | STANDARD A2-06 |
| | | STANDARD AZ-06 |

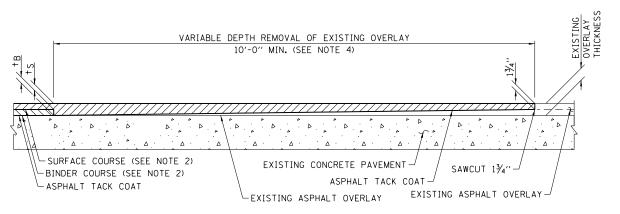
Paul Koracs APPROVED. CHIEF ENGINEER DATE 5-1-2009



DETAIL OF BUTT JOINT, TYPE 1

NOTES FOR BUTT JOINT. TYPE 1

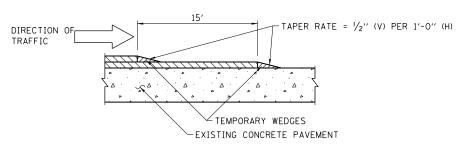
- 1. THE ABOVE WORK WILL BE PERFORMED AT THE ENDS OF ALL ASPHALT RESURFACING.
- 2. ONLY APPROVED SCARIFYING OR MILLING EQUIPMENT SHALL BE USED TO SCARIFY THE CONCRETE PAVEMENT.
- 3. REGARDLESS OF TYPE OF SURFACE MIX USED, NUMBER OR THICKNESS OF COURSES OR LAYERS, THE OVERLAY THICKNESS TRANSITION LENGTH 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. "+S" IS THE THICKNESS OF THE SURFACE COURSE SPECIFIED IN THE CONTRACT. "+B" IS THE THICKNESS OF THE BINDER COURSE SPECIFIED IN THE CONTACT.



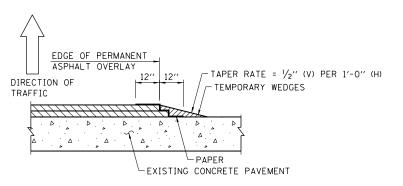
DETAIL OF BUTT JOINT, TYPE 2 AT EXISTING OVERLAY AREAS

NOTES FOR BUTT JOINT, TYPE 2

- THE ABOVE WORK WILL BE PERFORMED AT THE ENDS OF ALL ASPHALT RESURFACING WHERE BUTT JOINTS EXIST.
- REFER TO THE CONTRACT DOCUMENTS FOR THE REQUIRED BINDER AND SURFACE COURSE MATERIALS. "+5" IS THE THICKNESS OF THE SURFACE COURSE SPECIFIED IN THE CONTRACT. "+B" IS THE THICKNESS OF THE BINDER COURSE SPECIFIED IN THE
- 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 IN 20' AND THE MINIMUM SURFACE LAYER THICKNESS SHALL BE 13/4".



TEMPORARY ASPHALT WEDGE - TRANSVERSE

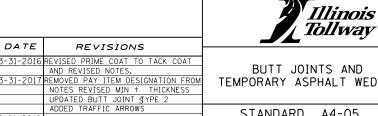


TEMPORARY ASPHALT WEDGE - LONGITUDINAL

NOTES FOR TEMPORARY ASHPHALT WEDGE - LONGITUDINAL

- 1. 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.

ADDED DIRECTION ARROWS

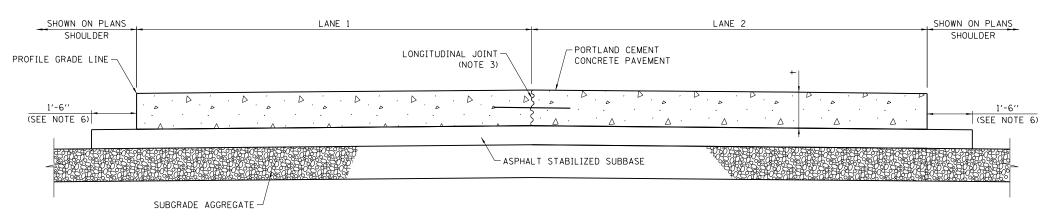


BUTT JOINTS AND TEMPORARY ASPHALT WEDGE

STANDARD A4-05

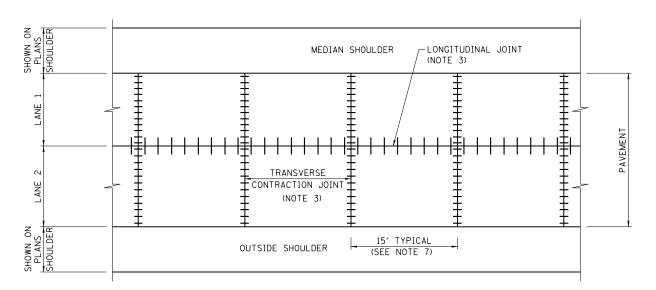


DATE 5-1-2009



PAVEMENT CROSS - SECTION (2 LANES)

+= CONCRETE PAVEMENT THICKNESS



PAVEMENT PLAN 2 - LANE SECTION

GENERAL NOTES:

- 1. 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'-O" 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'-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 (150) FROM DOWEL BARS.

SHEET 1 OF 2 Illinois

Tollway

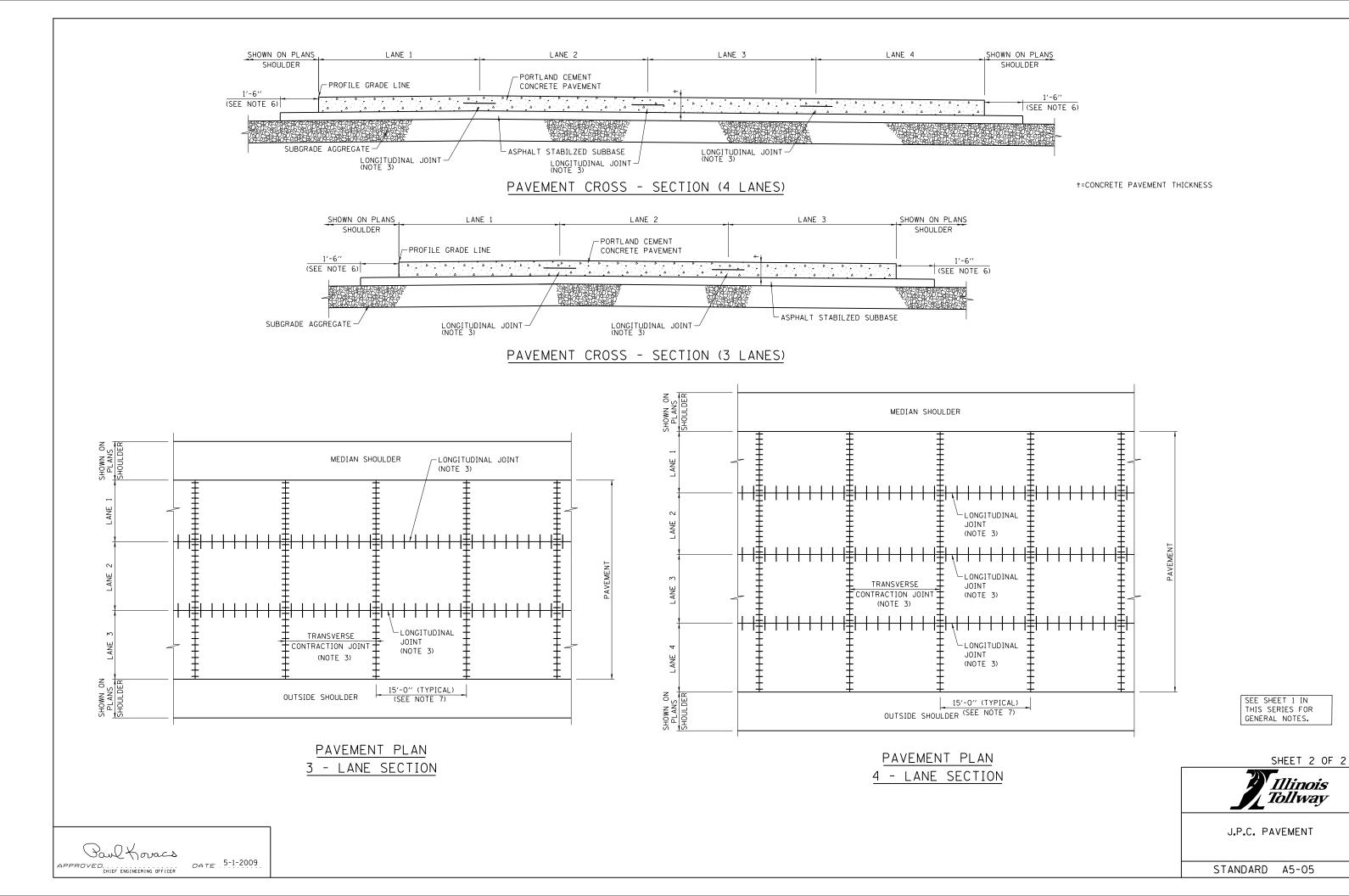
DATE REVISIONS REVISED NOTES 7 COMBINED WITH A6 REVISED WIDTH

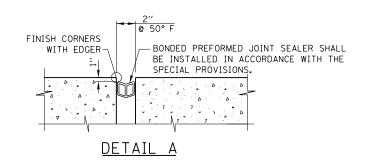
03-01-18 CORRECTED DIMENSION
03-01-19 UPDATED NOTES

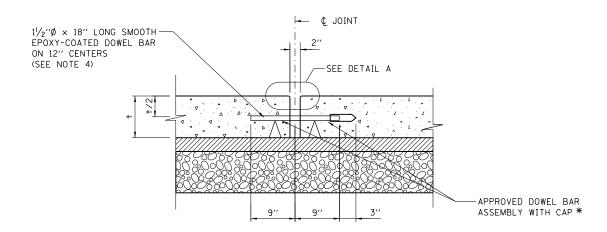
J.P.C. PAVEMENT

STANDARD A5-05

Paul Koracs DATE 5-1-2009

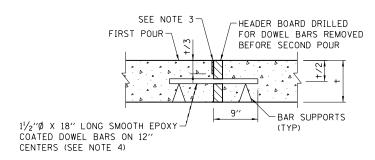






TRANSVERSE EXPANSION JOINT
(JOINTED PLAIN CONCRETE PAVEMENT)

* EXPANSION CAPS SHALL BE INSTALLED ON THE EXPOSED END OF EACH DOWEL BAR ONCE THE HEADER HAS BEEN REMOVED.



TRANSVERSE CONSTRUCTION JOINT (JOINTED PLAIN CONCRETE PAVEMENT)

GENERAL NOTES:

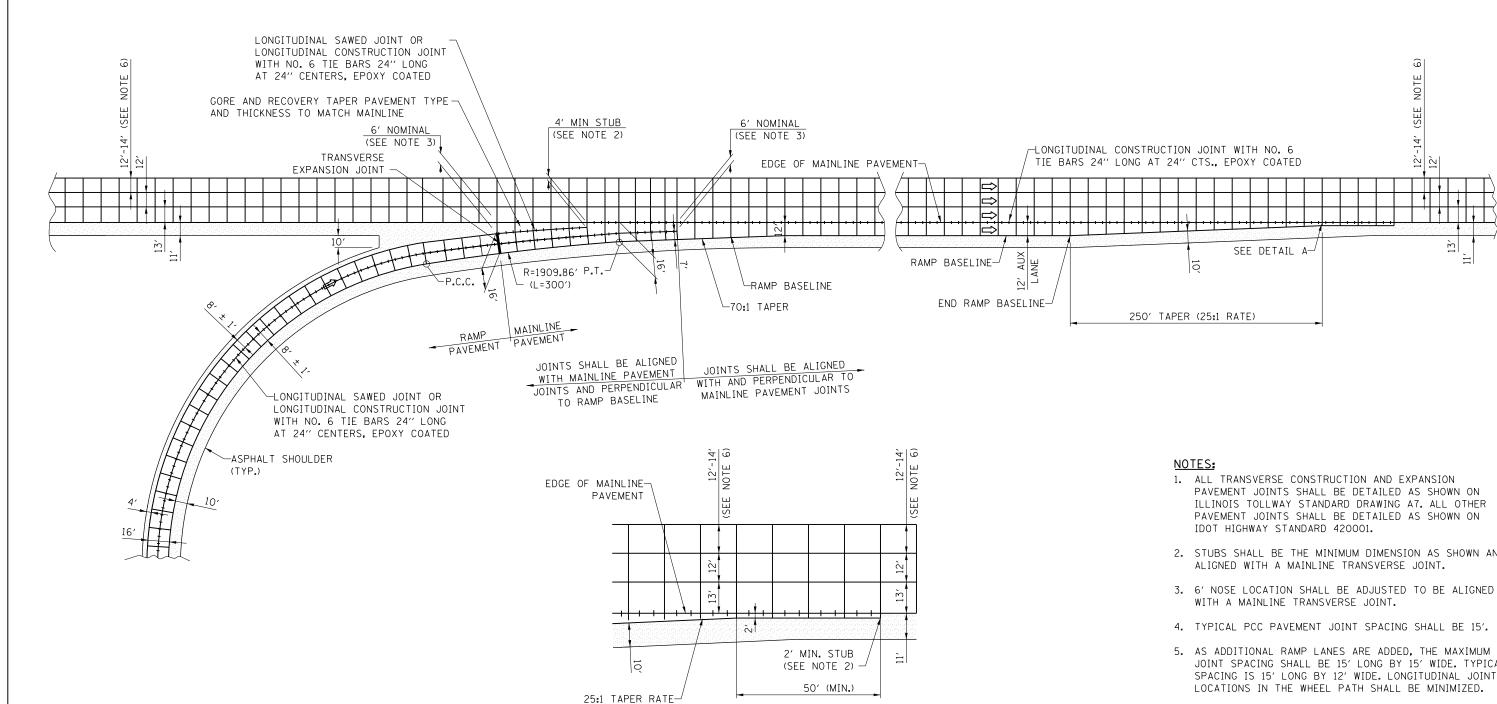
- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- 2. + = PAVEMENT THICKNESS
- 3. A $\frac{3}{8}$ " SAW CUT SHALL BE PROVIDED FOR PAVEMENT CRACK CONTROL.
- 4. FOR 13" PAVEMENT USE THE FOLLOWING DOWELS:
 1-1/2" X 18" LONG SMOOTH EPOXY COATED DOWEL BARS ON 9" CENTERS
 OR
 1-3/4" X 18" LONG SMOOTH EPOXY COATED DOWEL BARS ON 12" CENTERS

| Illinois Tollway |
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| louway |

| DATE | REVISIONS | |
|-----------|----------------------------|-----------------|
| 5-01-2017 | MODIFIED JOINT DETAIL, | PAVEMENT JOINTS |
| | REVISED NOTES | |
| 3-31-2016 | REVISED 13" PAVEMENT | |
| | NOTE FOR DOWEL BARS | |
| 3-31-2017 | ADDED TRANSVERSE EXPANSION | STANDARD A7-03 |
| | JOINT | STANDARD AT-03 |

Poul Koracs

APPROVED. CHIÉF ENGINEER DATE 5-1-2009



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
- 2. STUBS SHALL BE THE MINIMUM DIMENSION AS SHOWN AND ALIGNED WITH A MAINLINE TRANSVERSE JOINT.
- WITH A MAINLINE TRANSVERSE JOINT.
- 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. DIMENSION OF LANE 1 SHALL BE AS SHOWN ON THE PLANS.

SHEET 1 OF 2

Illinois Tollway

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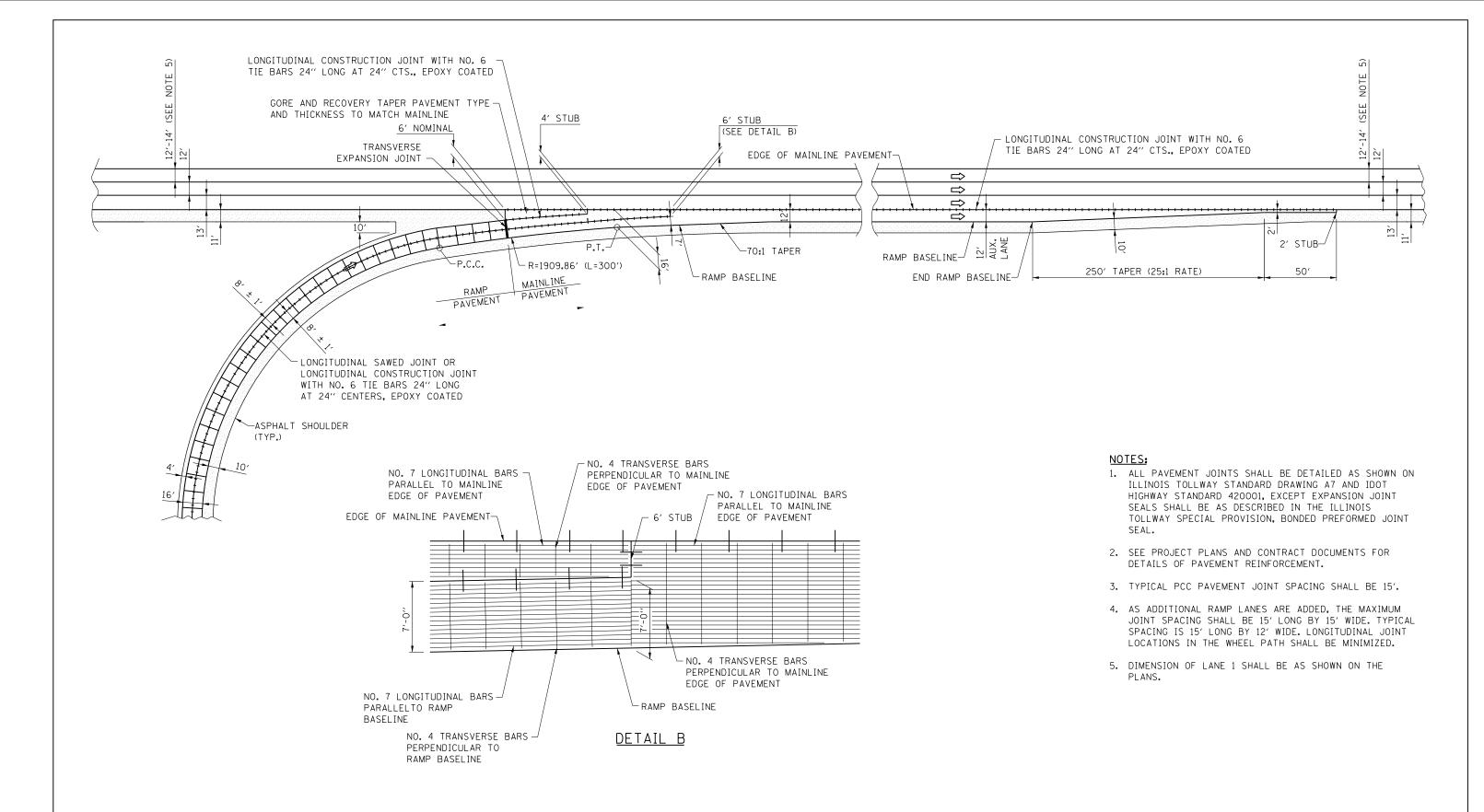
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DATE REVISIONS JOINTING PLAN ENTRANCE RAMP TERMINAL WITH AUXILIARY LANE STANDARD A12-00

Paul Kovacs APPROVED.

CHIEF ENGINEERING OFFICER

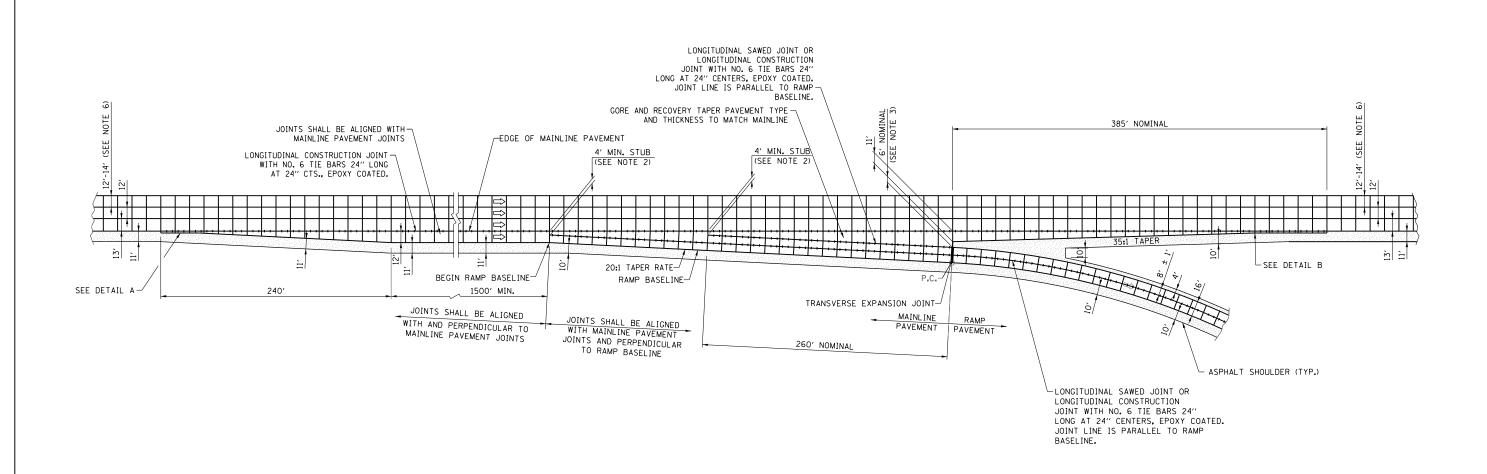
DATE 3-1-2019

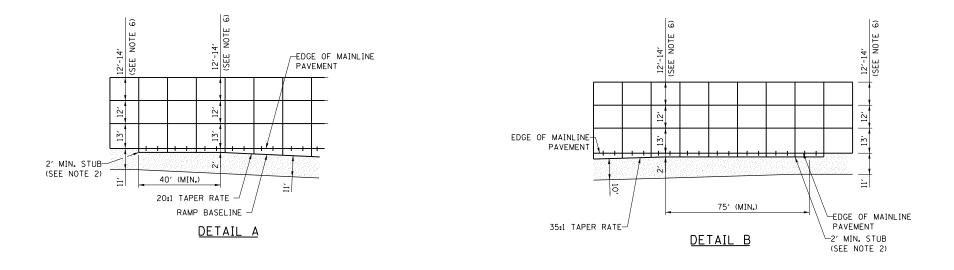


SHEET 2 OF 2

Illinois Tollway







NOTES:

- ALL TRANSVERSE CONSTRUCTION AND EXPANSION PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING AT. 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.
- 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.

SHEET 1 OF 2



DATE REVISIONS

3-01-2018 MOVED RAMP PAVEMENT
3-01-2019 MODIFIED DETAILS
ADDED PCC ADJ TO CRC

STANDARD A13-02

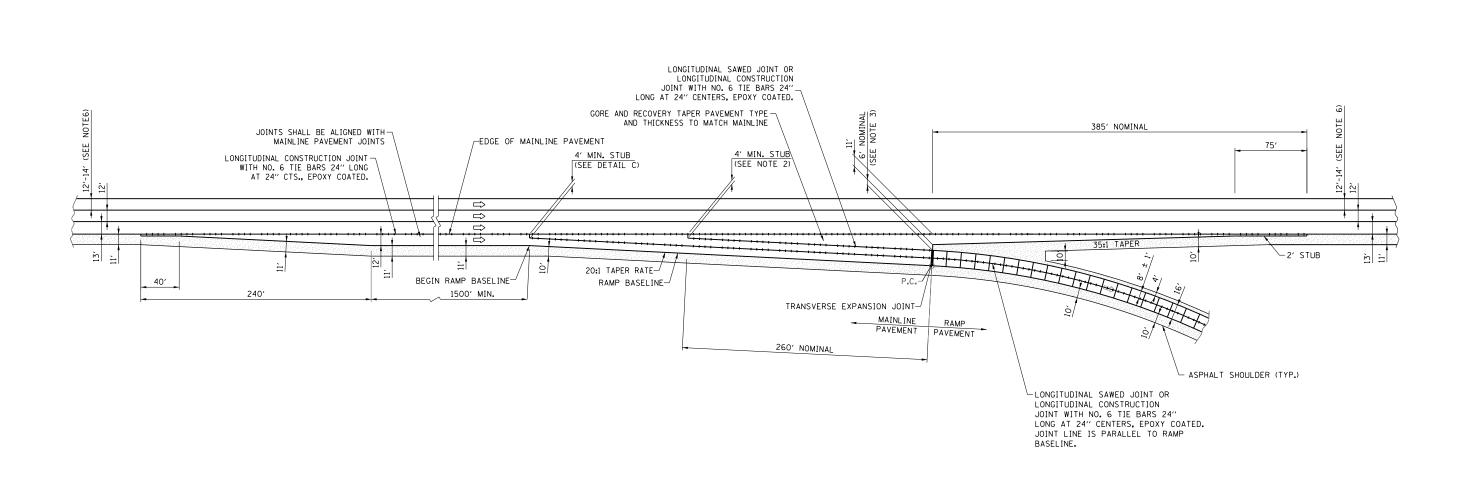
JOINTED PCC RAMP ADJACENT TO JOINTED PCC MAINLINE PAVEMENT

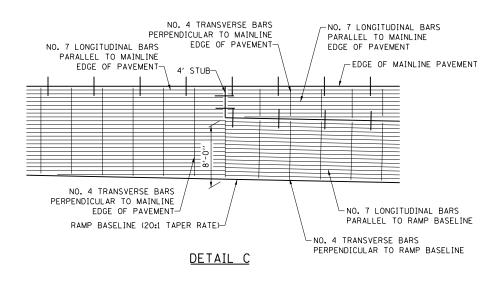
Paul Kovacs

APPROVED.

CHIEF ENGINEERING OFFICER

DATE 3-31-2017





- 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.

SHEET 2 OF 2

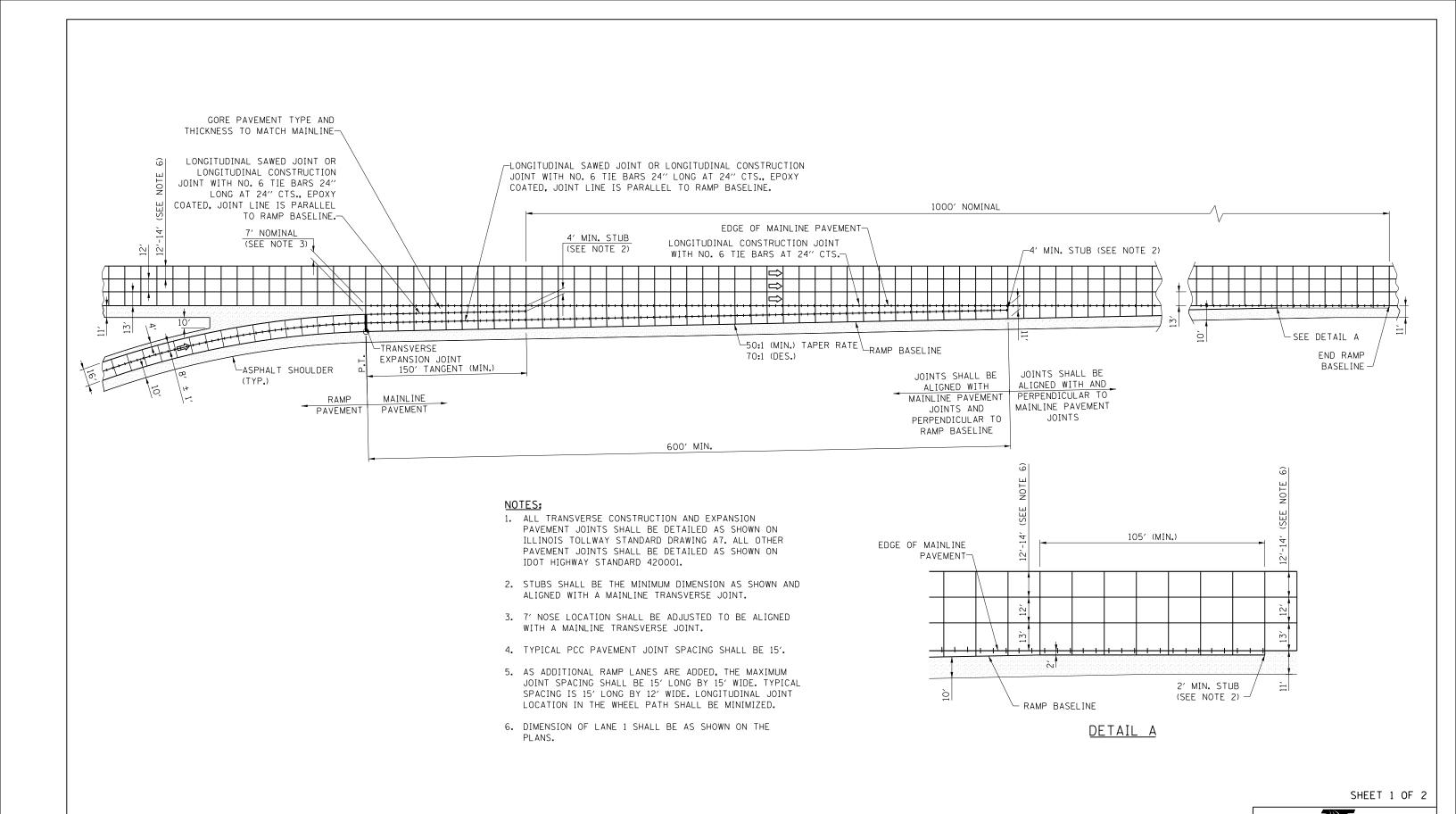
Illinois



JOINTING PLAN EXIT RAMP TERMINAL WITH AUXILIARY LANE

STANDARD A13-02

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

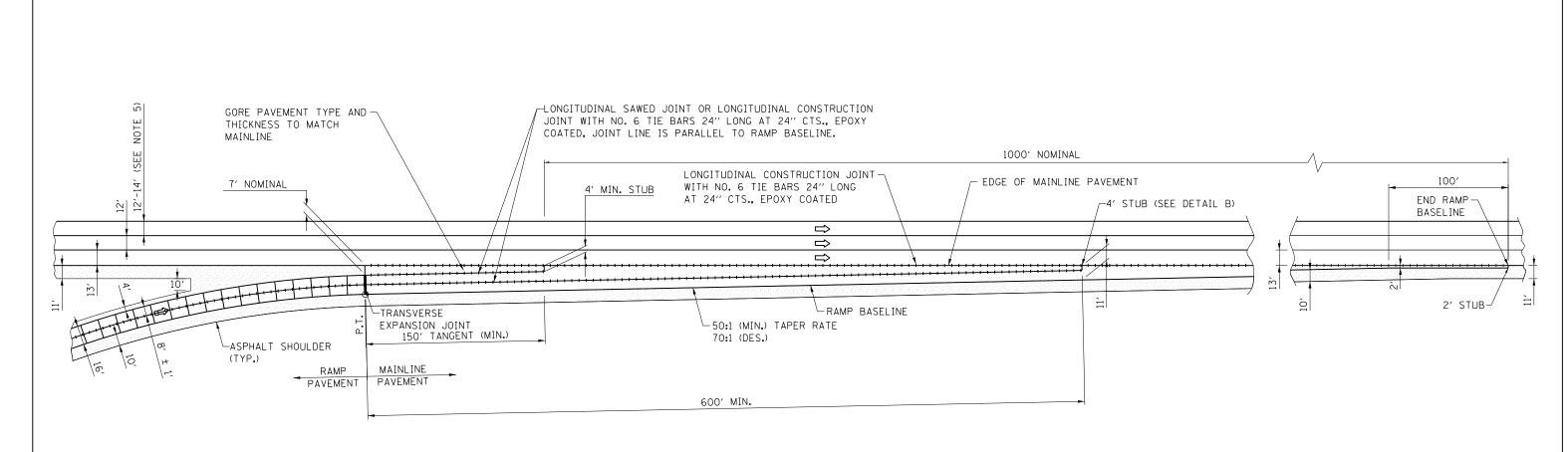


JOINTED PCC RAMP ADJACENT TO JOINTED PCC MAINLINE PAVEMENT

Ill<u>i</u>nois / Tollway DATE REVISIONS -31-2017 CORRECT PLAN DIMENSIONS OF

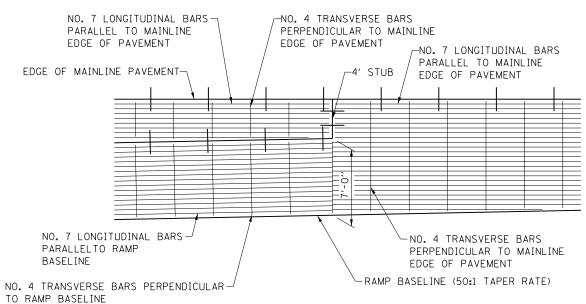
JOINTING PLAN PAVEMENT, SHOULDER WIDTHS, ENTRANCE RAMP TERMINAL AND REVISED NOTES
REVISED NOTES -01-2018 MOVED RAMP PAVEMENT STANDARD A14-05

APPROVED. CHIEF ENGINEERING OFFICER DATE 1-31-2015



NOTES:

- 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.



DETAIL B

SHEET 2 OF 2



JOINTING PLAN ENTRANCE RAMP TERMINAL

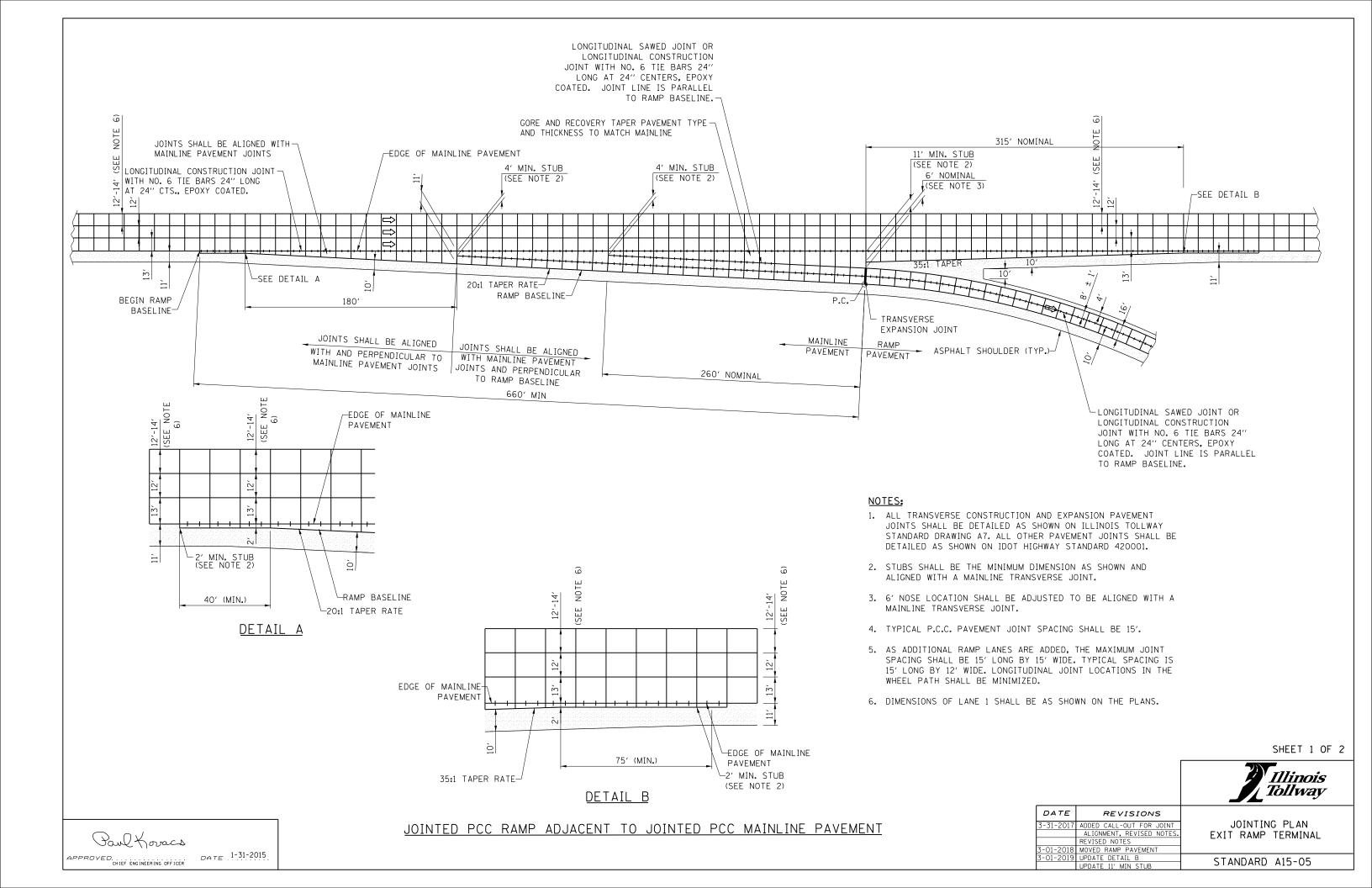
STANDARD A14-05

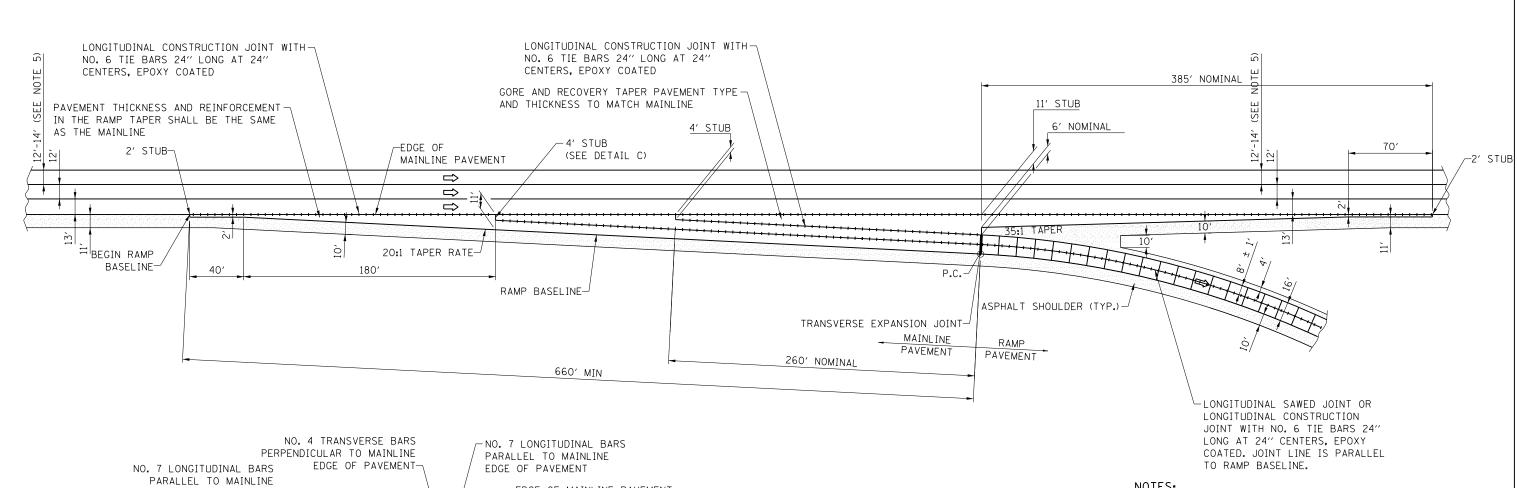
JOINTED PCC RAMP ADJACENT TO JOINTED C.R.C. MAINLINE PAVEMENT

Paul Kovacs

APPROVED. CHIEF ENGINEERING OFFICER

DATE 1-31-2015





NOTES:

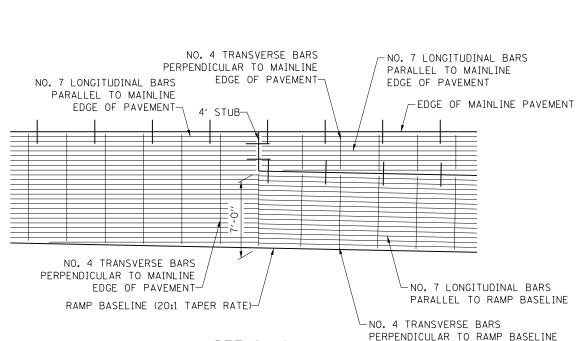
- 1. ALL PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING AT AND IDOT HIGHWAY STANDARD 420001, EXCEPT EXPANSION JOINT SEALS SHALL BE AS DESCRIBED IN THE ILLINOIS TOLLWAY SPECIAL PROVISION, BONDED PREFORMED JOINT SEAL.
- 2. SEE PROJECT PLANS AND CONTRACT DOCUMENTS FOR DETAILS OF PAVEMENT REINFORCEMENT.
- 3. TYPICAL 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.



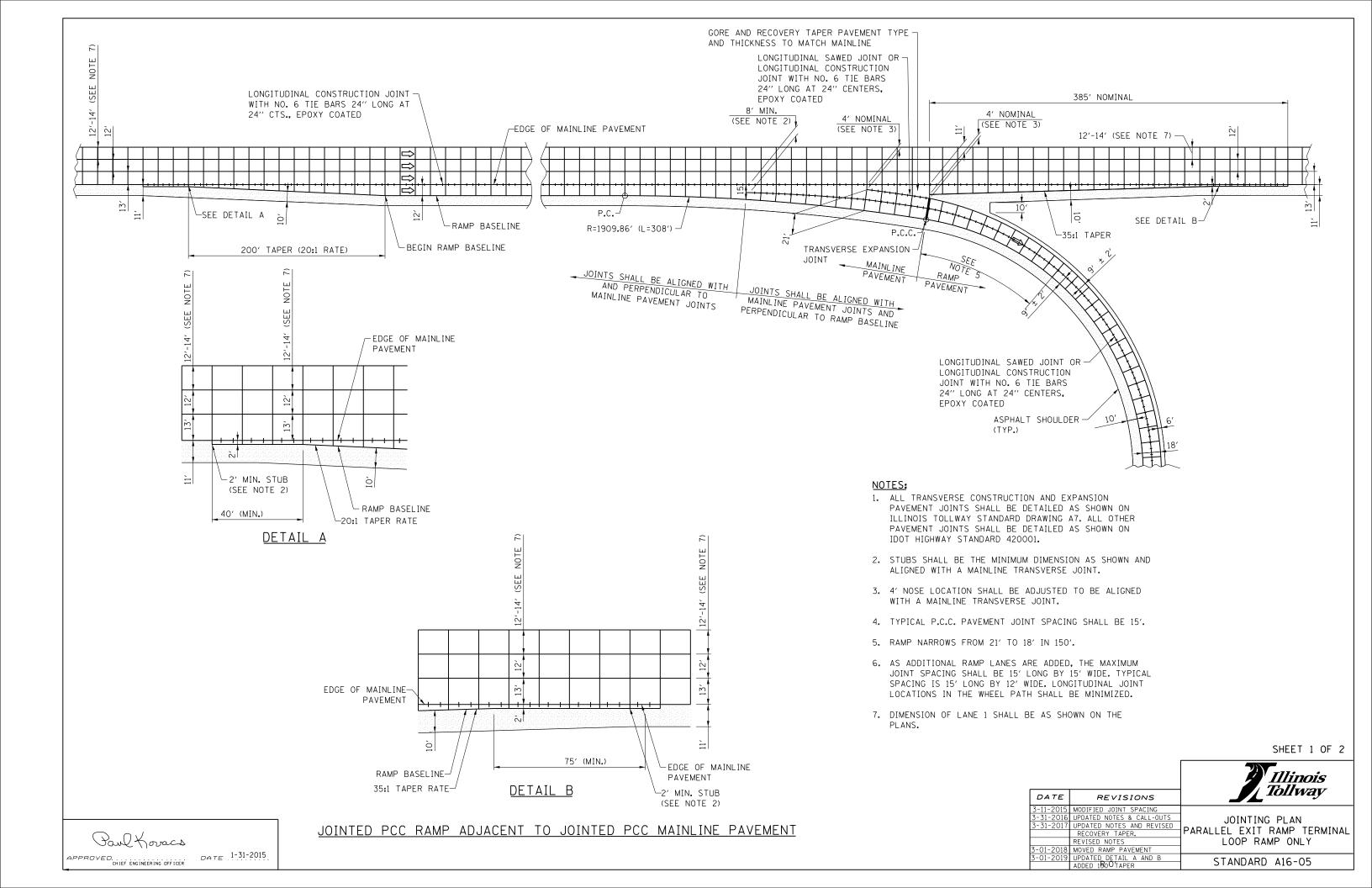


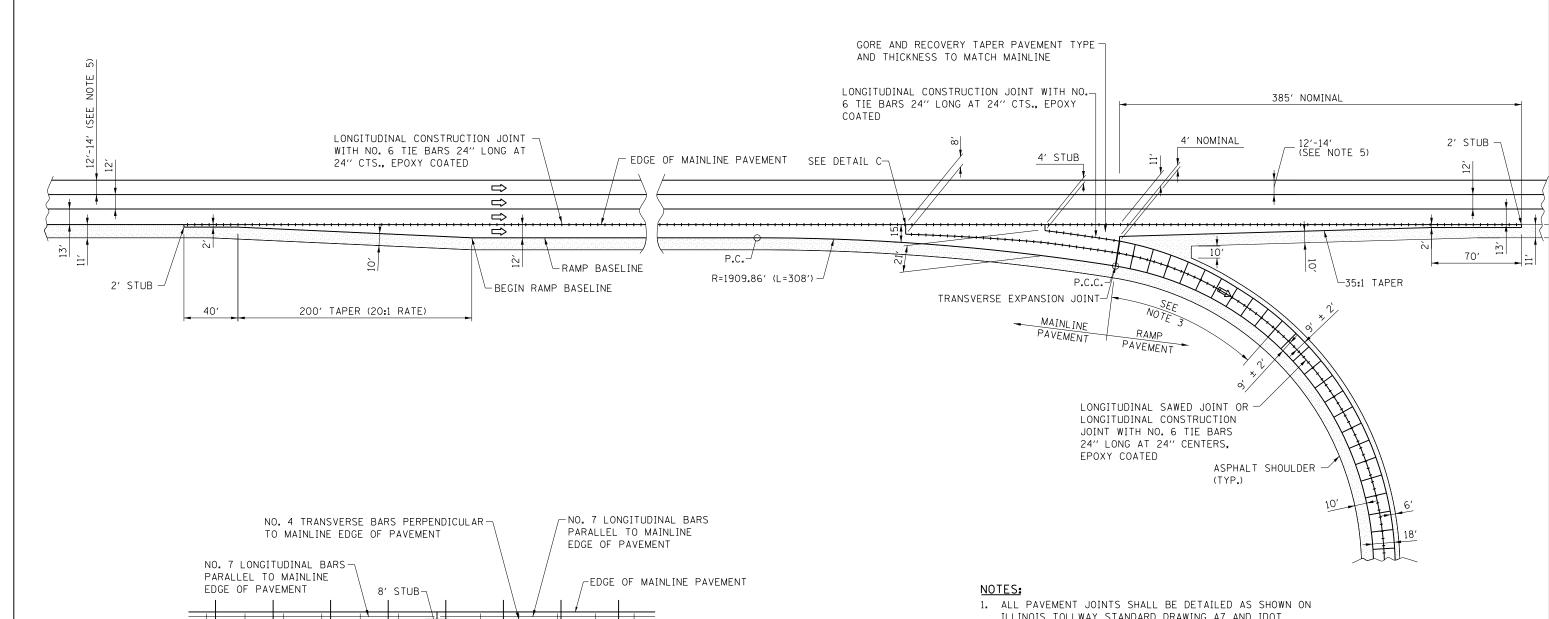
JOINTING PLAN EXIT RAMP TERMINAL

STANDARD A15-05



DETAIL C





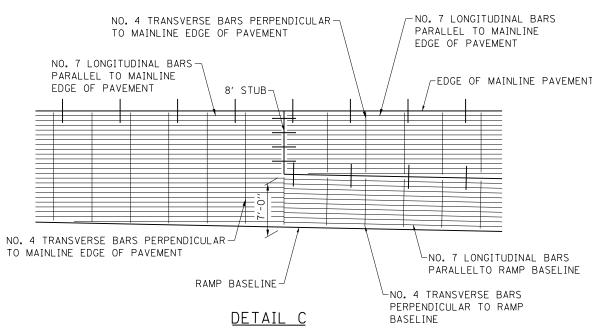
- 1. ALL PAVEMENT JOINTS SHALL BE DETAILED AS SHOWN ON ILLINOIS TOLLWAY STANDARD DRAWING A7 AND IDOT HIGHWAY STANDARD 420001, EXCEPT EXPANSION JOINT SEALS SHALL BE AS DESCRIBED IN THE ILLINOIS TOLLWAY SPECIAL PROVISION, BONDED PREFORMED JOINT SEAL.
- 2. TYPICAL P.C.C. PAVEMENT JOINT SPACING SHALL BE 15'.
- 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.

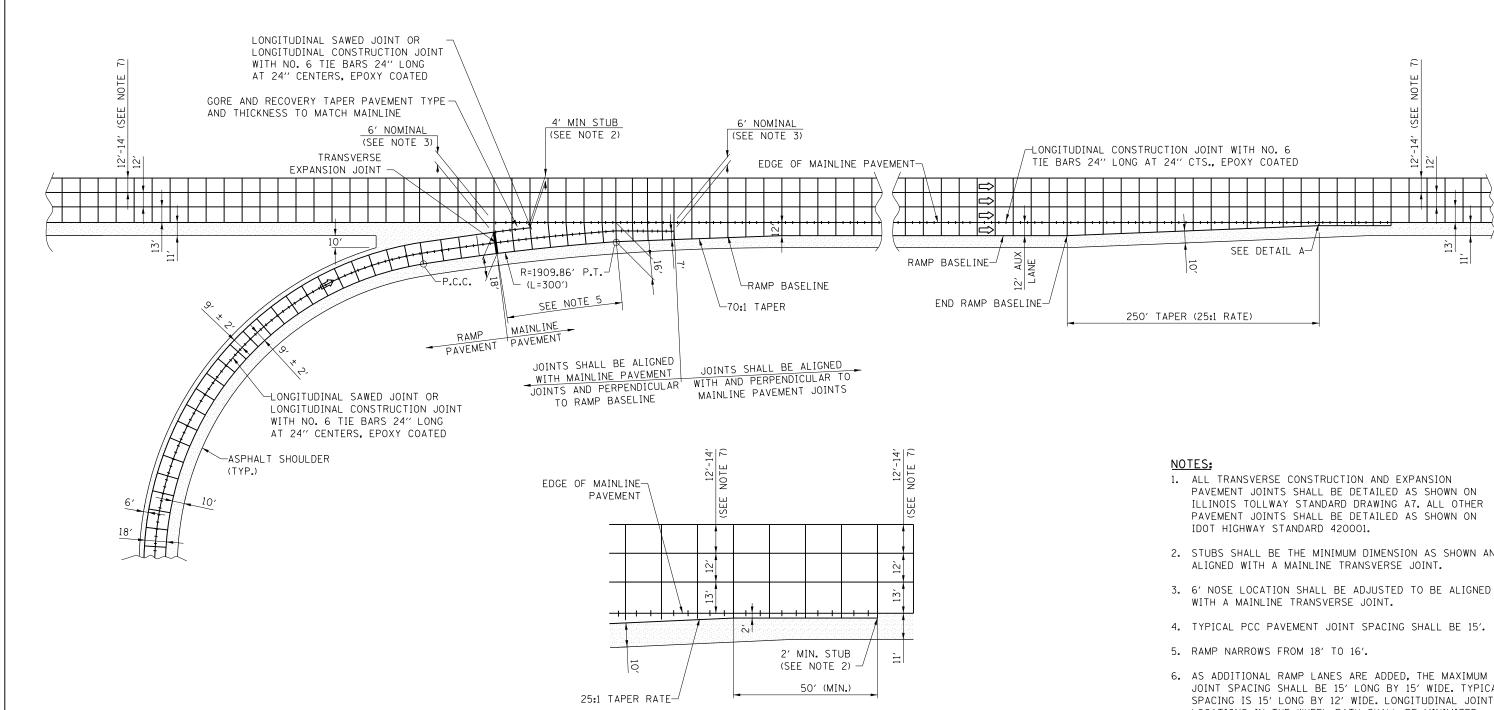
SHEET 2 OF 2



JOINTING PLAN
PARALLEL EXIT RAMP TERMINAL
LOOP RAMP ONLY

STANDARD A16-05





DETAIL A

- 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.
- WITH A MAINLINE TRANSVERSE JOINT.
- 4. TYPICAL PCC PAVEMENT JOINT SPACING SHALL BE 15'.
- 5. RAMP NARROWS FROM 18' TO 16'.
- 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′

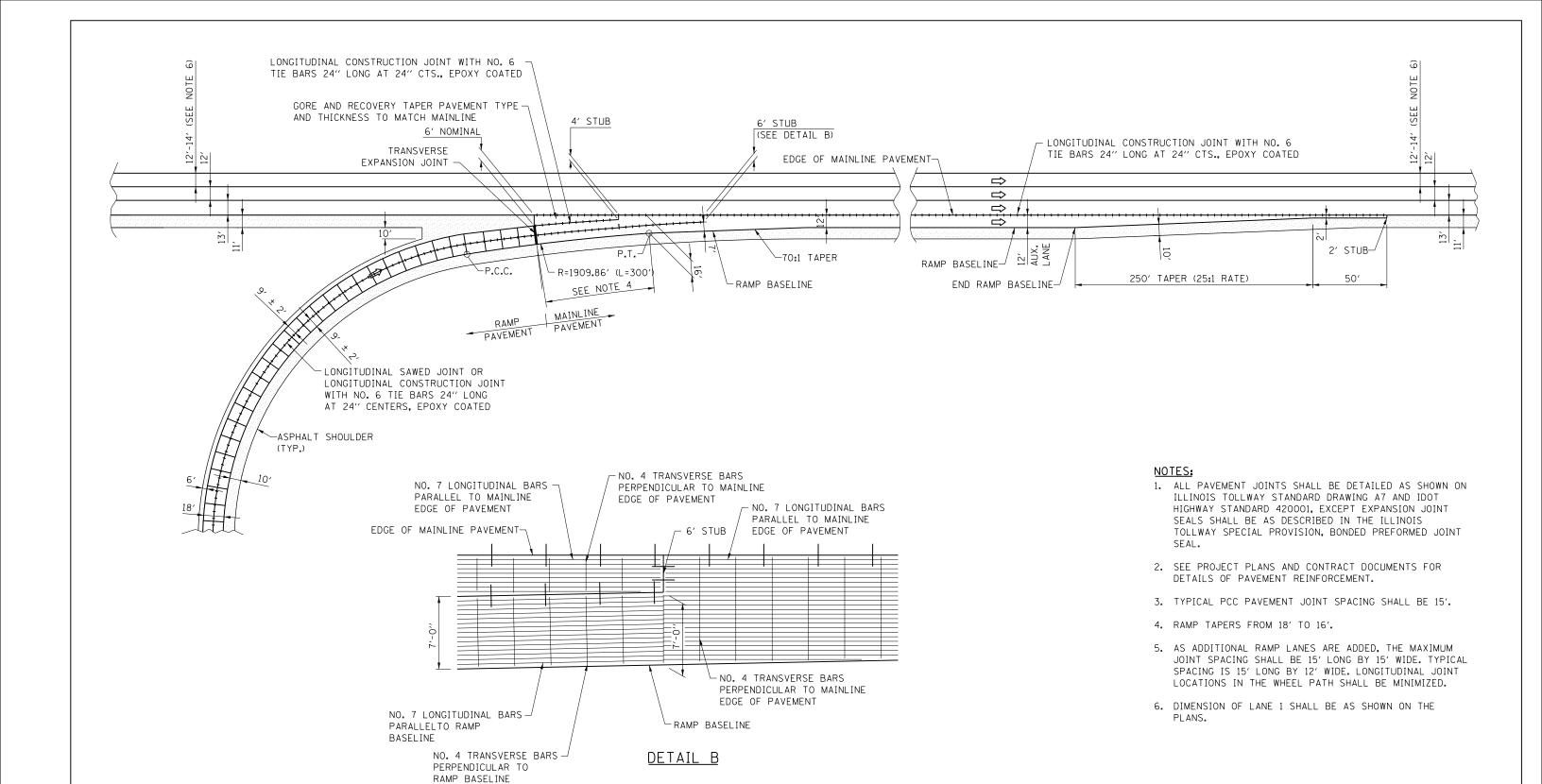
DATE REVISIONS JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL MODIFIED JOINT SPACING
UPDATED NOTES & CALL-OUTS LOOP RAMP ONLY 7 UPDATED NOTES. B MOVED RAMP PAVEMENT) ENTRANCE LAYOUT UPDATE STANDARD A17-05

JOINTED PCC RAMP ADJACENT TO JOINTED PCC MAINLINE PAVEMENT

Paul Kovacs APPROVED.

CHIEF ENGINEERING OFFICER

DATE 1-31-2015

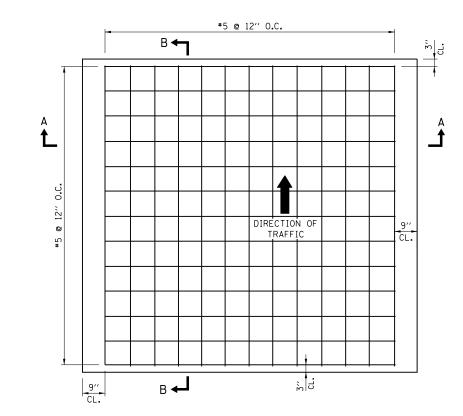


SHEET 2 OF 2



JOINTING PLAN PARALLEL ENTRANCE RAMP TERMINAL LOOP RAMP ONLY

STANDARD A17-05

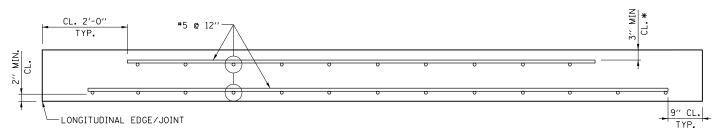


TYPICAL REINFORCEMENT DETAIL FOR STANDARD SLABS

CL 2'-0"

TYP.

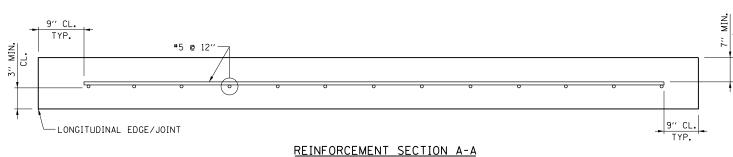
#5 @ 12''



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

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

ALL BARS ARE TRIMMED TO FIT #5 BAR TYP. #5 @ 12''-3" CL.

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

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

| GR | OUTING IS | COMPLETED.) FIT #5 BAR | Illinois |
|----|-----------|-----------------------------------|------------------------|
| | DATE | REVISIONS | Tollway |
| | 02-07-12 | SEE A18-01 FOR REVISIONS | |
| | | PER THIS DATE | |
| | 11-01-12 | REVISED NOTES | PRECAST PAVEMENT SLABS |
| | 3-31-2016 | REVISED NOTES; UPDATED | |
| | | CALLOUTS | |
| | 3-1-2018 | REVISED TEXT | |
| | 3-1-2019 | REMOVED SHEETS 1,9,10,13,14,15,16 | STANDARD A18-05 |
| | | JPDATED NOTES 4,5,6,8,11,12 | STANDARD A10-03 |

3" CL. TYP.

TYP.

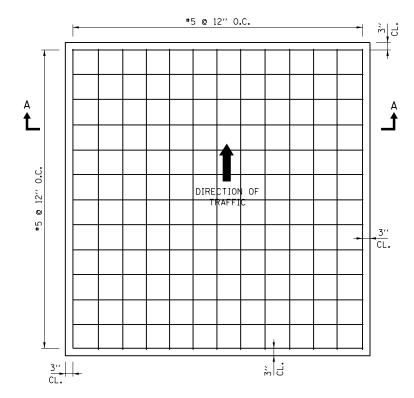
SHEET 1 OF 12

ONLY AFTER GROUTING IS COMPLETED.

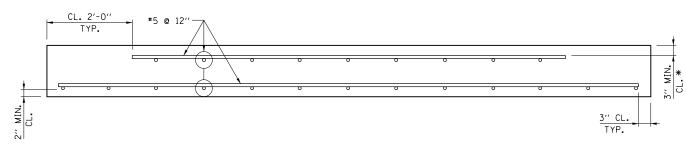
Paul Koracs APPROVED. CHIEF ENGINEERING OFFICER DATE 5-1-2009

NOTE:

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

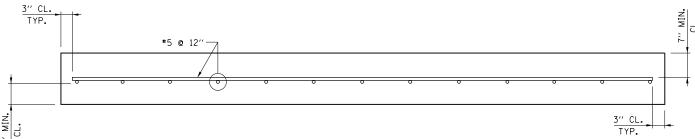


TYPICAL REINFORCEMENT DETAIL FOR CUSTOM SLABS



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.

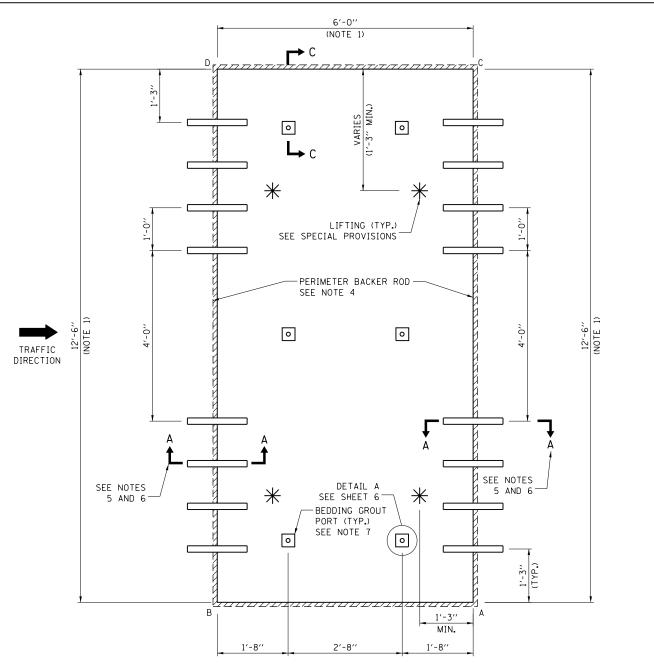
SHEET 2 OF 12



PRECAST PAVEMENT SLABS

STANDARD A18-05

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



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. 1'-8'' 2'-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.

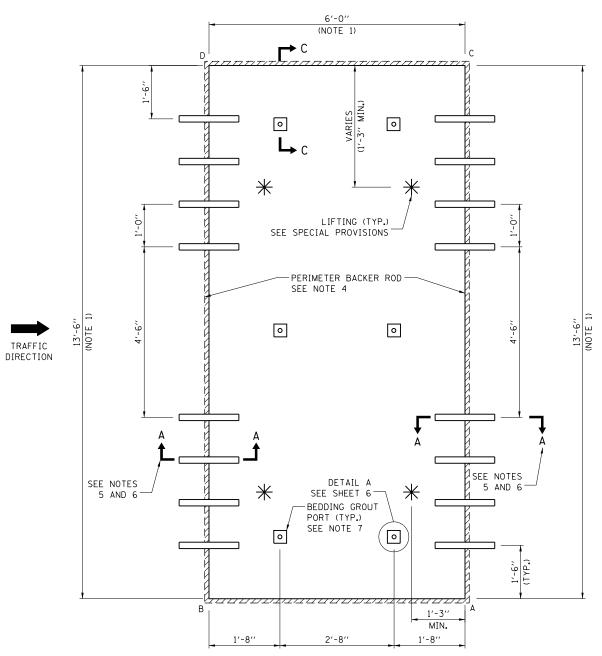
SHEET 3 OF 12



PRECAST PAVEMENT SLABS

STANDARD A18-05

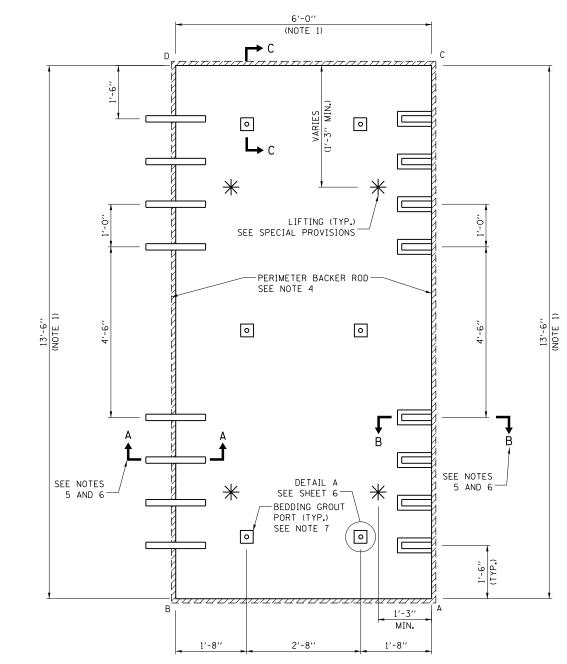
Paul Koracs



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

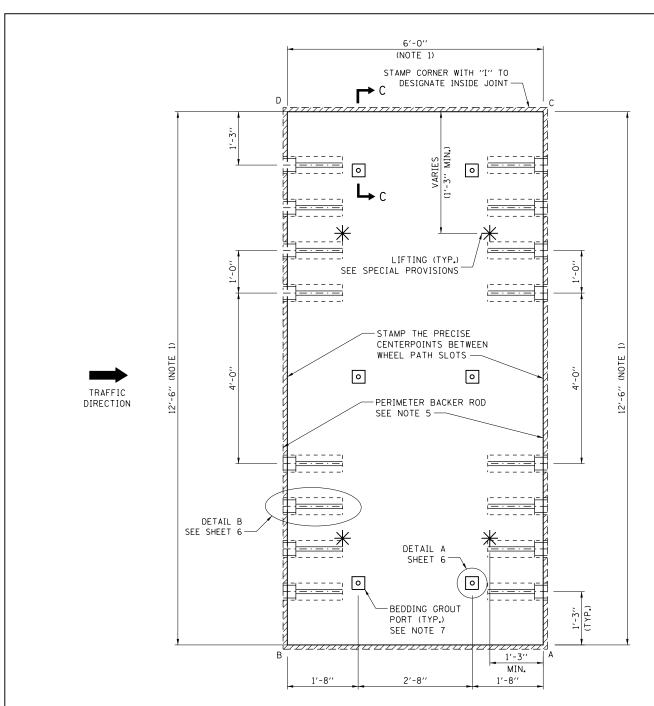
STANDARD A18-05

Paul Yoracs

APPROVED.

CHIEF ENGINEERING OFFICER

_{DATE} 5-1-200



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

6'-0" (NOTE 1) STAMP CORNER WITH "I" TO DESIGNATE INSIDE JOINT -VARIES --3" MIN. H=-----____ -------- -| _ _ _ _ _ | _____ LIFTING (TYP.) SEE SPECIAL PROVISIONS ----____ STAMP THE PRECISE CENTERPOINTS BETWEEN WHEEL PATH SLOTS 0 0 TRAFFIC DIRECTION PERIMETER BACKER ROD SEE NOTE 5 -· |- - - - - i <u>____</u> --------DETAIL B SEE SHEET 6-DETAIL A SHEET 6 BEDDING GROUT PORT (TYP.) SEE NOTE 7 MIN. 1'-8" 2'-8" 1'-8"

STANDARD 13'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH NARROW MOUTH PREFORMED DOWEL SLOTS TO ALIGN WITH PREDRILLED 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

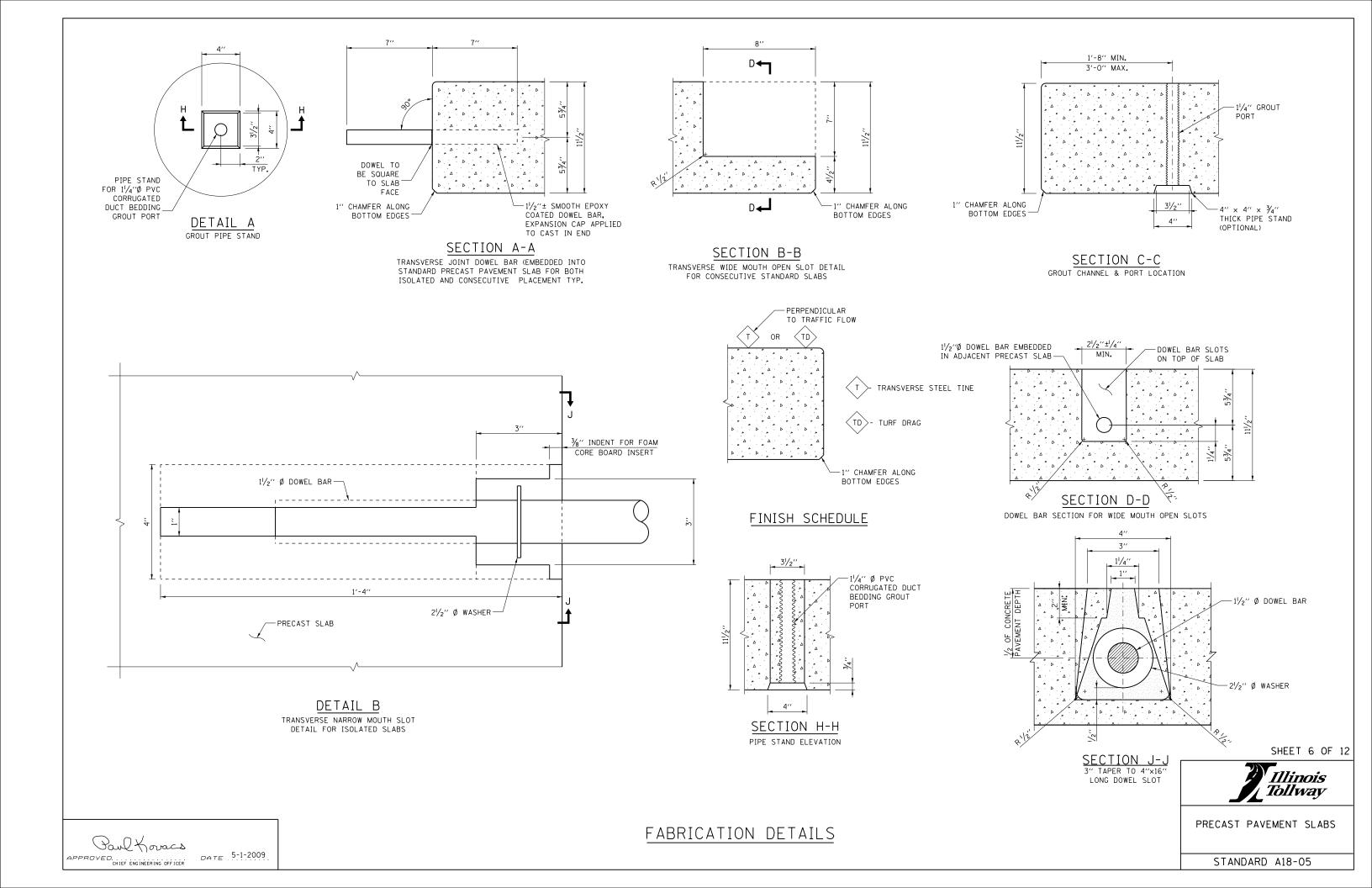
SHEET 5 OF 12



PRECAST PAVEMENT SLABS

STANDARD A18-05

Paul Koracs



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

| | WITH SEAD DIMENSIONS TO INCLUDE BUT NOT BE LIMITED TO THE TABLE SHOWN BELOW. | | | | | | | | | | | | | | | | | | | | | |
|-------|--|--|--|-------------|-------------|-------|-------------|------|--------------|-------------|-------------|-------------|-------------|------|-------------|-------------|-------------|------|---------------------|--------|---------|---------|
| | | | | DAVID | RAMP | PLAZA | PLAZA | MARK | LANE TYP. | | VARIABL | ES (FT. |) | AB* | BD* SIDE | CD* SIDE | AC* SIDE | AREA | VOLUME (CU. FT.) | WEIGHT | DIAGONA | LS (FT. |
| AMPLE | S CORRIDOR | | | RAMP ID. | LANE NO. | NO. | LANE NO. | NO. | | AB (FT.) | AC (FT.) | BD (FT.) | CD (FT.) | SIDE | | | | | | | AD | ВС |
| EX | | | | | | | | | | | | | | | | | | | | | | |

PLAZA LANE NO .: MARK NO .: LANE TYP .:

MAINLINE LANE NO.: LANE NO 1 IS ADJACENT TO MEDIAN SHOULDER. RAMP LANE NO.: LANE NO 1 IS ADAJACENT TO THE BUILDING LANE NO 1 IS ADAJACENT 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.

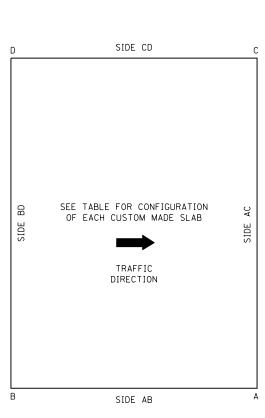
* <u>LEGEND</u>

DB= DOWEL BAR EMBEDDED

DS= DOWEL SLOT

ST= SLOT OR HOLE FOR STITCHED TIE BAR

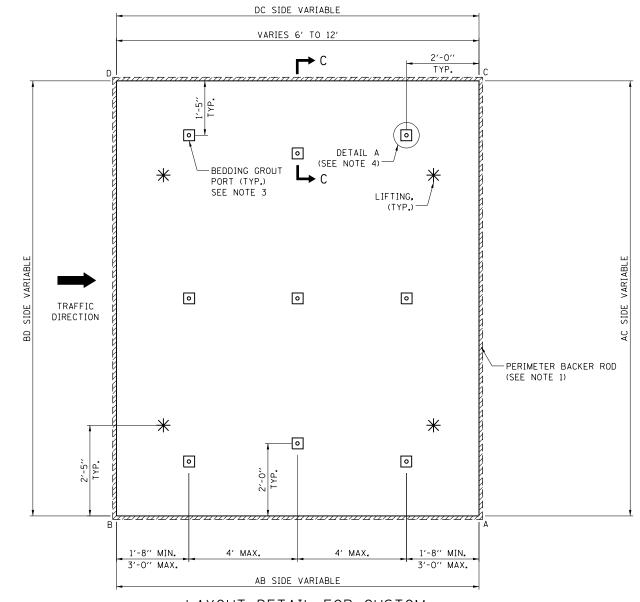
RD= FIELD RETROFITTED DOWEL BARS



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.
- 3. SEE "PRECAST REPLACEMENT OF CONCRETE PAVEMENT SLABS" (ILLINOIS TOLLWAY) SPECIAL PROVISION FOR LOCATING BEDDING GROUT
- 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

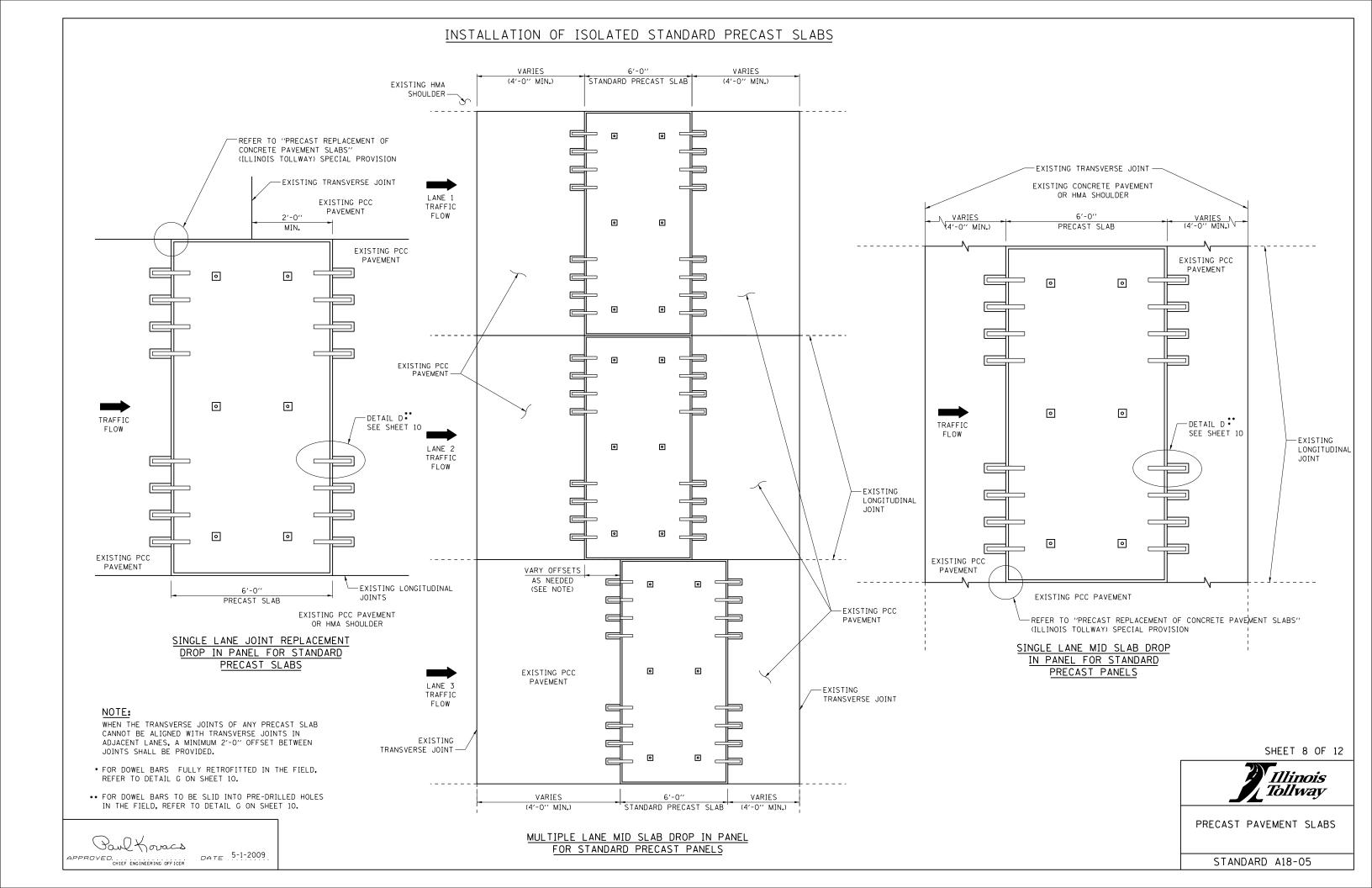


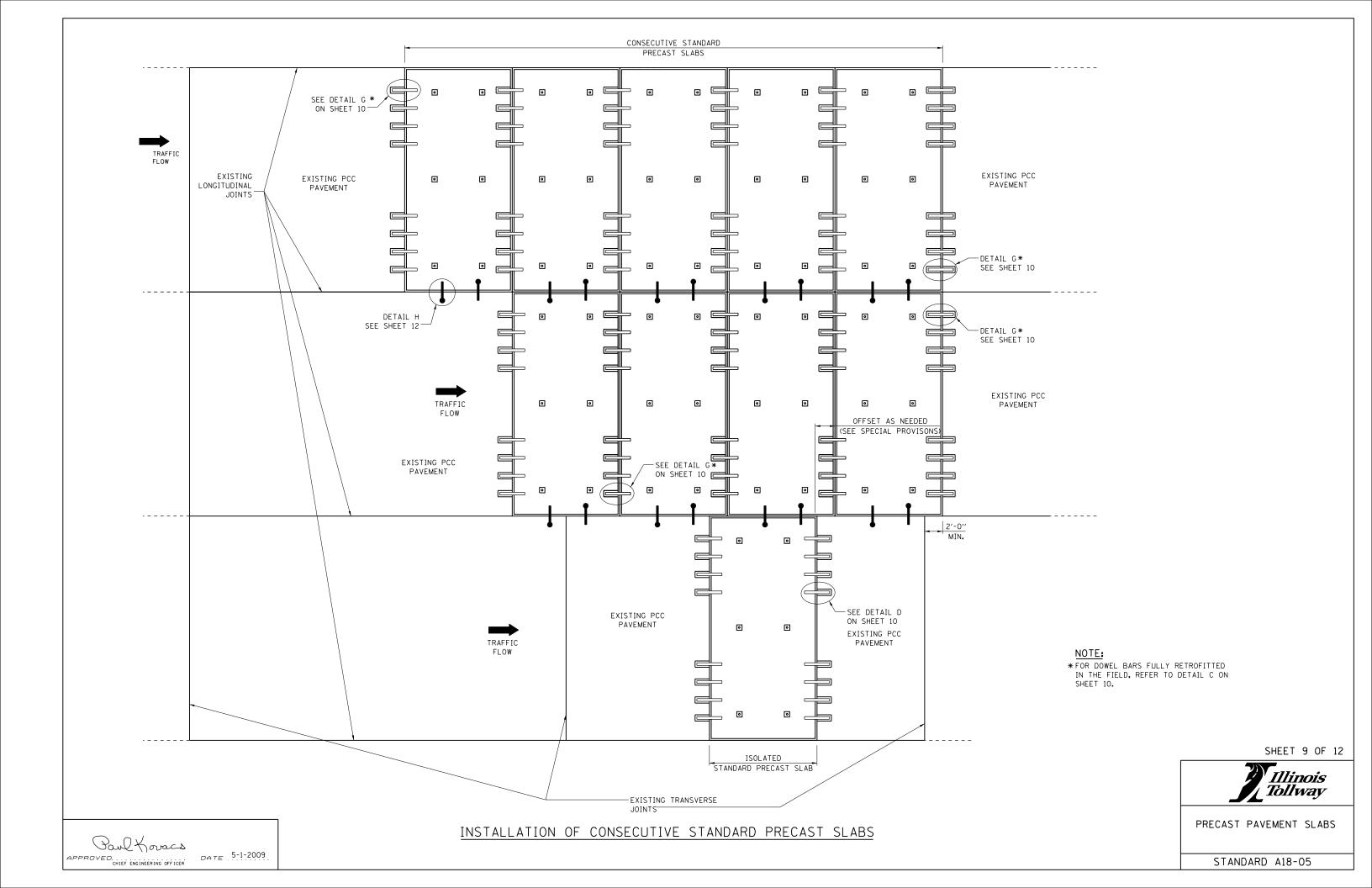
PRECAST PAVEMENT SLABS

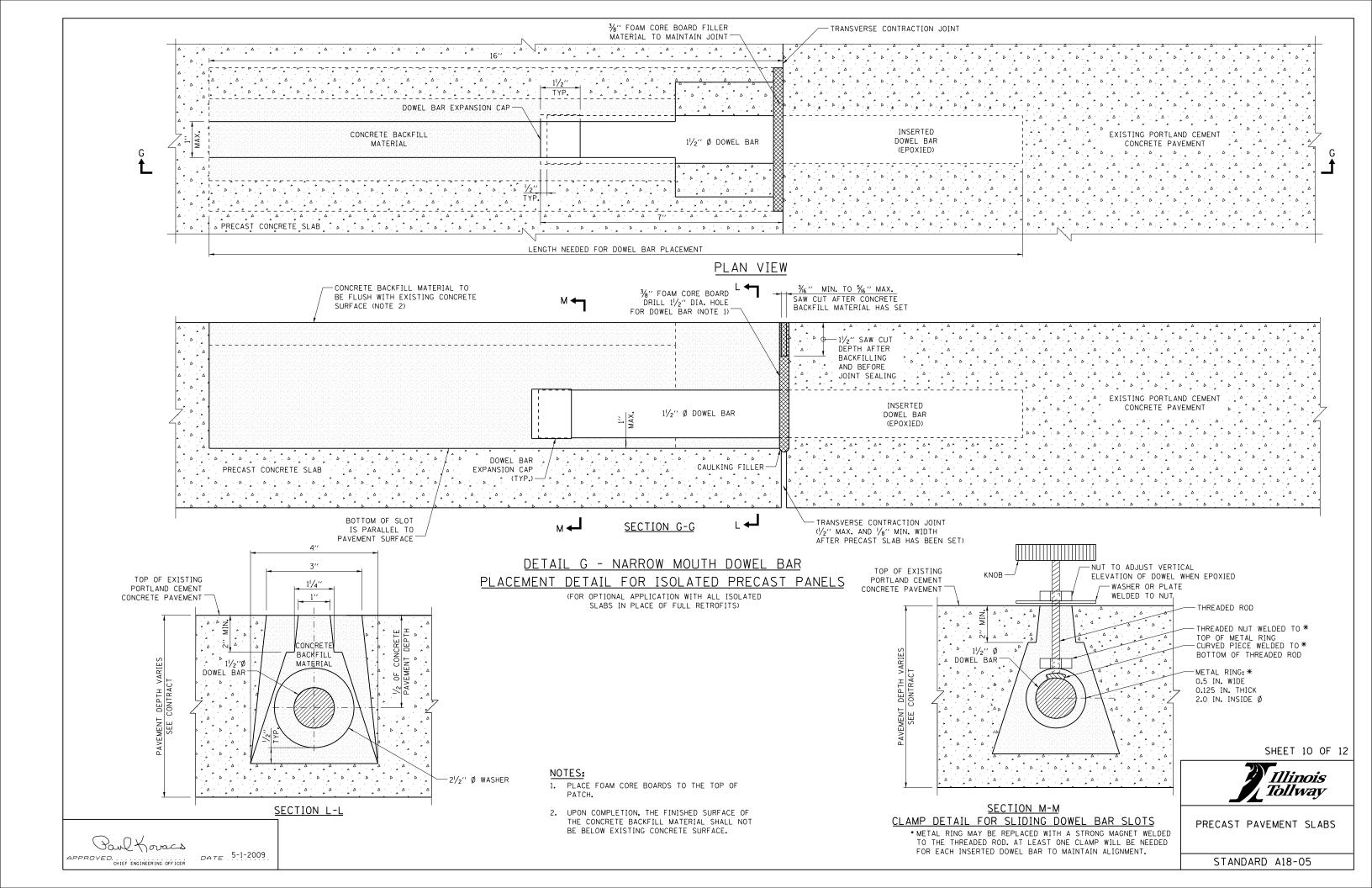
STANDARD A18-05

Paul Koracs

DATE 5-1-2009







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.

| | | CTATION | MAINLINE | DAMD | RAMP | DI 474 | PLAZA | MARK | LANE | | | 2.101011 | | | ٧ | ARIABLE | | · | | | | | | ∧ ₽* | ₽N* | cn* | 40* | ADEA | VOLUME | WEIGHT | DIAGONA | LS (FT.) |
|------------|--------|-------------|----------|-------------|------|----------|-------|------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------------|--|-------------|------|----------|-----------|--------|--------|--------|---------|----------|
| H CORRIDOF | NUMBER | LANE NO. | ID. | LANE NO. | NO. | NO. LANE | NO. | TYP. | AB (FT.) | AC (FT.) | BD (FT.) | CD (FT.) | P (NO.) | Q (FT.) | R (FT.) | S (NO.) | T (NO.) | V (NO.) | W (FT.) | X (FT.) | Y (FT.) | Z (F T .) | | SIDE | SIDE | (SQ.FT.) | (CU. FT.) | (TONS) | AD | ВС | | |
| ă 🗆 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

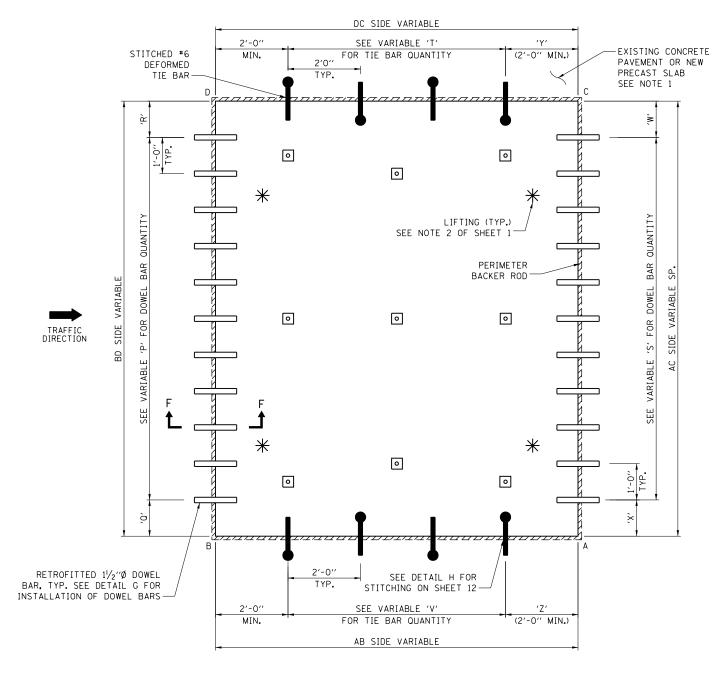
MAINLINE LANE NO.: LANE NO. 1 IS ADJACENT TO MEDIAN SHOULDER. LANE NO. 1 IS ADAJACENT TO THE BUILDING LANE NO. 1 IS ADAJACENT TO THE BUILDING EACH PANEL SHALL BE INDIVIDUALLY MARKED FOR CORRECT PLACEMENT. "OUT" IN THIS COLUMN INDICATES OUTSIDE LANE. "MID" IN THIS COLUMN INDICATES MIDDLE LANE. "IN" IN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

SHEET 11 OF 12



1. NO STITCHING OF DEFORMED TIE BARS IS REQUIRED WHEN PRECAST SLAB IS PLACED ADJACENT TO HMA SHOULDER OR PLAZA

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.

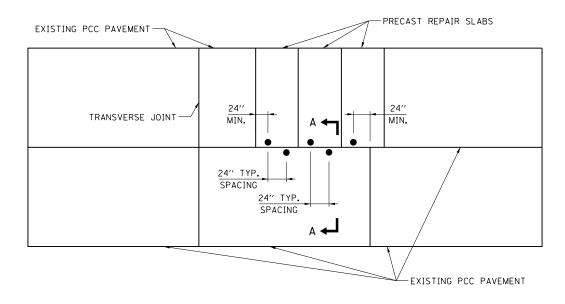
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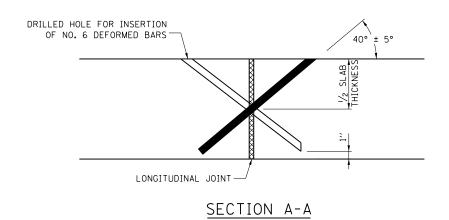
PRECAST PAVEMENT SLABS

STANDARD A18-05

Paul Koracs



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
- 6. 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
- 9. REMOVE EXCESS ADHESIVE AND FINISH FLUSH WITH THE PAVEMENT

SHEET 12 OF 12



PRECAST PAVEMENT SLABS

