

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**SUPPLEMENTAL SPECIFICATIONS
TO THE
1999
STANDARD SPECIFICATIONS**

**EFFECTIVE FOR LETTINGS
ON OR AFTER
September 1, 2000**

Includes February 17, 2000 Minutes

INDOT INTERNET ADDRESS: www.state.in.us/dot/

1999 STANDARD SPECIFICATIONS WITH SUPPLEMENTALS: www.state.in.us/dot/TS/standards/book/

PREFACE

These Supplemental Specifications are a compilation of all revisions to the 1999 Standard Specifications passed by the INDOT Specification Committee and approved by the Chief Engineer. The effective date for this issue is shown on the front. Updated Supplemental Specifications are published every four months with effective dates of January 1, May 1, and September 1.

These revisions to the Standard Specifications are accomplished by deleting material from the Standard Specifications and inserting new material. Deletions are usually shown first, followed by new or replacing material. In tables and charts with columns, the new material appears below the deletions. Deletions from the Standard Specifications are identified by two ways, either by overstriking the deleted material or by written instructions when the deleted materials are complete paragraphs and five consecutive lines or more. New material that is inserted in the specifications is printed in *italics*.

The written instructions include the section number and the first affected line number. Such instructions no longer include the Standard Specifications page number. Line numbers which appear in the Standard Specifications also appear in the Supplemental Specifications material. Line numbering is shown as a continuation of the line numbering of Standard Specifications sections which are extended by means of Supplemental Specifications. The integrity of the Standard Specifications line numbering system is undisturbed by the Supplemental Specifications.

When deleting whole paragraphs, delete the blank space preceding the first paragraph to be deleted and leave the blank space following the last paragraph to be deleted.

Examples:

SECTION 910, BEGIN LINE 859, DELETE AND INSERT AS FOLLOWS:

(e) Square Steel Posts. ~~A type C certification shall be required~~ *Square steel sign post shall be covered by the type of certification specified in the Frequency Manual and in accordance with 916.*

SECTION 913, DELETE LINES 4143 THROUGH 4152.

SECTION 913, AFTER LINE 4153, INSERT AS FOLLOWS:

The last line of new material may appear several lines after line 4153. Everything from the beginning of the new material to the end of the new material is between lines 4153 and 4154.

The line numbers shown in the 1999 Standard Specifications do not reflect the counting of lines through tables. Therefore, lines in tables will be identified by the last line number preceeding the table with alphabetic letters for each line in the table. Such line numbers will be identified, as an example, as Lines 137a THROUGH 137g.

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SUBSECTION	LINE	TITLE	DATE REVISED
101.01	27	Abbreviations	1/13/00
104.04	139	Maintenance of Traffic	1/14/99
104.04(d)	213	Traffic Control for Patching on a Two-Lane Roadway.....	1/14/99
105.14	459	Failure to Maintain Roadway, Structures, Barricades and Construction Signs	1/14/99
107.01	34	Laws to be Observed.....	6/17/99
107.02	79	Permits, Licenses, and Taxes	6/17/99
107.12	359	Traffic Control Devices	1/14/99
107.17	580	Opening Sections of Project to Traffic.....	1/14/99
108.03	50	Prosecution of the Work.....	2/17/00
108.07	337	Determination and Extension of Contract Time	1/14/99
109.01(e)	187	Measurement of Portland Cement Concrete PCC.....	2/11/99
109.03	302	Compensation for Altered Quantities.....	10/14/99
202.05	228	Removal of Pavement, Sidewalks, Curbs, Surface, Surface Milling, etc.....	1/13/00
202.13	570	Basis of Payment.....	2/17/00
206.02(b)	52	Excavation for Foundations of Traffic Support Structures.....	7/15/99
211.02(c)	23	<i>Coarse Aggregate For End Bent Backfill</i>	9/16/99
211.02(e) (d)	24	Flowable Mortar Substitution	9/16/99
211.03	56	General Requirements.....	9/16/99
211.07.1	96	<i>Aggregate For End Bent Backfill</i>	9/16/99
211.09	102	Method of Measurement.....	7/15/99
211.10	143	Basis of Payment.....	7/15/99
213.04(b)	53	Average Penetration Resistance	12/16/99
215	1	<i>CHEMICAL MODIFICATION OF SUBGRADE SOILS</i>	11/19/98
216	1	<i>CELLULAR CONCRETE FILL, CCF</i>	9/16/99
303.02	29	Materials	3/11/99
304.01	3	Description.....	2/11/99
305.01	3	Description.....	2/11/99
305.02	17	Materials	2/11/99
305.04	59	Blank <i>Rubblizing Existing PCCP</i>	2/11/99
305.05	79	Patching Asphalt Pavement.....	12/17/98
305.06	97	Patching Rigid PCCP Pavement or Rigid PCCP Base	2/11/99
305.06(a)	127	Patching with Portland Cement Concrete PCC.....	2/17/00
305.06(b)	160	Patching with HMA Mixture.....	12/17/98
305.07	163	Blank <i>Retrofit Load Transfer for PCCP</i>	2/11/99
305.10	185	Widening.....	12/17/98
305.10(b)	202	Widening with Cement Concrete PCC.....	2/11/99
305.11	267	Method of Measurement.....	2/11/99
305.12	271	Basis of Payment.....	2/17/00

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SUBSECTION	LINE	TITLE	DATE REVISED
307.01	3	Description.....	2/11/99
307.02	10	Materials	2/11/99
307.03	26	General Requirements.....	2/11/99
307.04	35	Joints	2/11/99
307.05	43	Placing Steel Blank	2/11/99
307.07	60	Curing	2/11/99
307.08	81	Monolithic Curb.....	2/11/99
307.10	103	Basis of Payment.....	2/11/99
310	1	CEMENT CONCRETE PAVEMENT PATCHING BLANK	2/11/99
401.04	31	Design Mix Formula	1/13/00
401.05	49	Volumetric Mix Design.....	1/13/00
401.05(a)	65	Gradation Table for Design ESAL Equal To or Greater Than 10,000,000.....	1/13/00
401.05(b)	69	Gradation Table for Design ESAL Less Than 10,000,000	1/13/00
401.06	115	Recycled Materials.....	1/13/00
401.07	133	Lots and Sublots.....	12/17/98
401.08	140	Job Mix Formula.....	1/13/00
401.09	144	Acceptance of Mixtures	1/13/00
401.11	206	Preparation of Surfaces to be Overlaid	1/13/00
401.16	272	Density.....	1/13/00
401.16(a)	299	Mainline ESAL Equal To or Greater Than 10,000,000 1,000,000.....	1/13/00
401.16(b)	340	Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 Blank	12/17/98
401.16(c)	366	Mainline ESAL Less Than 3,000,000 1,000 000	1/13/00
401.19(a)	498	Mixture	2/11/99
401.19(b)1	510	Mainline ESAL Equal To or Greater Than 10,000,000 1,000,000.....	1/13/00
401.19(b)2	514	Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 Blank	12/17/98
401.19(c)	532	Smoothness	1/13/00
401.20(a)	553	Mixture	1/13/00
401.20(b)1	557	Mainline ESAL Equal To or Greater Than 10,000,000 1,000,000.....	1/13/00
401.20(b)2	567	Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 Blank	12/17/98
401.22	598	Basis of Payment.....	2/11/99
402.03	26	Job Mix Formula.....	1/13/00
402.05	72	Recycled Materials.....	1/13/00
402.06	89	<i>Acceptance of Mixtures</i>	1/13/00
402.06(a)	107	Mainline and Shoulders.....	1/13/00
402.06(b)	107	Wedge and Leveling and Rumble Strips.....	1/13/00
402.07	27	Preparation of Mixtures	1/13/00
402.09	151	Preparation of Surfaces to be Overlaid	1/13/00

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SUBSECTION	LINE	TITLE	DATE REVISED
402.13	254	Compaction	1/13/00
402.14	297	Low Temperature Density Requirements	1/13/00
405.02	12	Materials	2/11/99
408.03(f)1	185	Profilograph	2/11/99
500	1	RIGID CONCRETE PAVEMENT.....	2/11/99
501.06	96	Trial Batch.....	2/17/00
501.26	336	Pavement Thickness.....	2/17/00
501.26(a)	370	PCCP Removal.....	2/17/00
501.26(b)	379	PCCP Non-Payment.....	2/17/00
501.26(c)	389	PCCP Thickness.....	2/17/00
501.27(d)	425	Air Content.....	2/17/00
501.28(b)	501	Air Content.....	2/17/00
501.28(b)1	504	Lots.....	2/17/00
501.28(b)2	539	Sublots.....	2/17/00
501.28(c)	544	Thickness.....	2/17/00
501.28(d)	553	Smoothness	2/17/00
501.31	636	Basis of Payment.....	2/17/00
502.23	471	Basis of Payment.....	2/17/00
504.03	32	Finishing	2/17/00
505.01(e)	63	Exceptions to AASHTO T 152.....	2/17/00
601.02	19	Materials	2/11/99
601.06	99	Guardrail Transitions.....	6/17/99
601.07	103	Guardrail End Treatments.....	2/17/00
601.07.1	123	Impact Attenuators.....	2/17/00
601.12	152	Method of Measurement.....	2/17/00
601.13	158	Basis of Payment.....	2/17/00
605.06	138	Cement Concrete Center Curbing.....	2/11/99
605.09	239	Method of Measurement.....	2/11/99
605.10	253	Basis of Payment.....	2/11/99
610.01	3	Description.....	2/11/99
610.02	15	Materials	2/11/99
610.05	57	Cement Reinforced Concrete Bridge Approach Pavement.....	3/11/99
610.05(a)	65	Machine Method	2/11/99
610.05(b)	71	Hand Method.....	2/11/99
610.06	89	Method of Measurement.....	2/11/99
610.07	103	Basis of Payment.....	2/11/99
611.02	11	Materials	2/11/99
611.06	84	Method of Measurement.....	1/14/99
611.07	111	Basis of Payment.....	1/14/99
614.01	3	Description.....	2/11/99

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SUBSECTION	LINE	TITLE	DATE REVISED
614.02	12	Materials	2/11/99
614.03	26	Cement Concrete PCC Header	2/11/99
619.06	116	Maintaining Traffic	1/14/99
622.20	368	"Do Not Mow or Spray" Signs and "Do Not Disturb" Signs	10/14/99
701.02	12	Materials	11/18/99
701.11(a)	569	Precast Prestressed Concrete Pile	11/18/99
701.11(b)	572	Steel Piles and Steel Shells for Cast In-Place Concrete Pipe	11/18/99
701.15(d)	653	Prestressed Concrete Piles	11/18/99
702.13(g)	725	Test Beams.....	11/18/99
702.05	64	Proportioning.....	2/11/99
702.12	517	Consistency	2/11/99
702.13(a)	537	Construction	5/13/99
702.13(e)2	581	Permanent.....	5/13/99
702.13(f)	682	<i>Precast Concrete Deck Panels</i>	5/13/99
702.13(g)	728	Test Beams.....	2/11/99
702.22	1143	Curing Concrete.....	5/13/99
702.24	1276	Application of Loads to and Acceptance of New Concrete	2/11/99
702.28	1393	Basis of Payment.....	5/13/99
704.05	80	Finishing Concrete.....	2/17/00
705.03	18	Construction Requirements	2/11/99
706.02	16	Materials	6/17/99
707.01	4	Description.....	5/13/99
707.02	18	Materials	11/19/98
707.03	31	General Requirements.....	5/13/99
707.05	161	Forms	5/13/99
707.06	211	Placing and Finishing Cement Concrete.....	5/13/99
707.09.1	347	<i>Precast Prestressed Concrete Deck Panels</i>	7/15/99
707.10	348	Method of Measurement.....	11/19/98
707.11	354	Basis of Payment.....	5/13/99
709.05(e)	114	Alternate To Concrete Sealers	3/11/99
711.33	376	Stud Shear Connectors.....	6/17/99
711.69	911	Method of Measurement.....	11/19/98
711.70	932	Basis of Payment.....	11/19/98
711.70(b)	1005	Unit Weight Basis.....	11/19/98
713.05	48	Temporary Approaches.....	1/14/99
713.08	78	Method of Measurement.....	1/14/99
713.09	89	Basis of Payment.....	1/14/99
718	1	UNDERDRAINS	6/17/99
722.04	58	Proportioning.....	2/11/99
722.08	278	Placing and Finishing	2/11/99
722.09	286	Texturing.....	2/11/99
722.10	305	Curing	5/13/99

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SUBSECTION	LINE	TITLE	DATE REVISED
801	1	TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS.....	10/14/99
801.02	11	Materials	2/17/00
801.03	89	General Requirements.....	2/17/00
801.08	187	Cones, Flexible Channelizers, and Tubular Markers.....	2/17/00
801.15	537	Method of Measurement.....	2/17/00
801.16	570	Basis of Payment.....	2/17/00
803.06(a)	56	Under Traffic	1/14/99
806	1	TEMPORARY TRAFFIC SIGNALS BLANK.....	1/14/99
808.02	13	Materials	1/14/99
808.07(b)	256	Vehicle Warning Lights	1/14/99
901.02(b)1	174	Requirements.....	2/11/99
901.04	328	Microsilica Silica Fume Used As a Pozzolanic Mineral Admixture	3/11/99
901.04(b)1	341	Requirements.....	1/13/00
901.04(b)2	349	Frequency of Testing.....	1/13/00
901.05	414	<i>Chemical Anchor Systems</i>	1/13/00
901.05(a)	414	<i>Requirements</i>	1/13/00
901.05(b)	414	<i>Laboratory Testing</i>	1/13/00
901.06	414	<i>PCC Sealer/Healers</i>	1/13/00
901.06(a)	414	<i>Requirements</i>	1/13/00
901.06(b)	414	<i>Laboratory Testing</i>	1/13/00
902.01(a)	7	Performance Graded Asphalt Binders.....	1/13/00
904.01(b)	52	For HMA Mixtures.....	1/13/00
904.01(e)	83	Mineral Filler	1/13/00
904.01(h)	121	Sampling and Testing	2/11/99
904.02(c)	273a	Coarse Aggregate Angularity	1/13/00
904.02(d)	285	Surface Aggregate Requirements.....	12/17/98
904.02(e)	290p	Sizes of Coarse Aggregates.....	11/19/98
904.03(c)	337	Exceptions to AASHTO 27 for Coarse Aggregates	5/13/99
906.02(a)1d	40	Certification	3/11/99
906.05(b)	107	Detail Requirements	3/11/99
909.07	681	Miscellaneous Paints and Ingredients <i>Blank</i>	3/11/99
909.10	794	Proprietary Portland Cement Concrete <i>PCC Sealers</i>	12/16/99
909.10(a)	824	<i>Properties</i>	12/16/99
909.10(b)	824	<i>Test Report</i>	12/16/99
910.12	633	Samples and Certification of Guardrail, Posts, Accessories, Fittings, and Hardware Suppliers	2/17/00
910.12(a)	637	Control Procedure for Furnishing Steel Beam Guardrail and Accessories	2/17/00
910.12(b)	686	Aluminum Guardrail	2/17/00
910.14(b)	840	Wide Flange Posts	10/14/99

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910.14(e)	859	Square Steel Posts.....	11/19/98
910.14(e)1	874	Steel	11/19/98
910.14(e)2	875	Fabrication.....	11/19/98
910.14(e)3	880	Protective Coating	11/19/98
910.14(f)	895	Portable Construction Sign Trailer.....	2/11/99
910.16	919	Copper Flashing	3/11/99
910.20	1225	Blank Steel Bridge Railing Components.....	6/17/99
912.01(f)	24	Polyethylene Film.....	2/11/99
912.03	62	Admixtures for Use in Concrete.....	12/16/99
912.03(a)	65	Air Entraining Admixtures.....	12/16/99
912.03(b)	69	Chemical Admixtures for Concrete.....	12/16/99
912.03(b)3	80	Type C.....	12/16/99
912.03(c)	130	Test Report	12/16/99
912.03(d)	260	Approved Admixtures	12/16/99
912.03(e)	263	Performance of Admixtures	12/16/99
912.05	274	Mineral Admixture	3/11/99
913.04	31	Hydrated Lime.....	11/19/98
913.07.1	73	Flexible Channelizer and Flexible Tubular Marker.....	2/17/00
913.09	150	Glass Beads.....	1/13/00
913.12	1574	Construction Warning Lights.....	1/14/99
913.13	1724	Flashing Arrow Sign.....	1/14/99
913.13.1	1724	Temporary Worksite Speed Limit Sign Assembly	2/11/99
913.14(b)1	1738	Thermoplastic	1/13/00
913.14(b)1a	1772	Material Requirements.....	1/13/00
913.14(b)1a(1)	1780	Reflectorization	1/13/00
913.14(b)1a(2)	1784	Set Time.....	1/13/00
913.14(b)1a(3)	1788	Water Absorption	1/13/00
913.14(b)1a(4)	1791	Softening Point.....	1/13/00
913.14(b)1a(5)	1794	Specific Gravity	1/13/00
913.14(b)1a(6)	1797	Impact Resistance	1/13/00
913.14(b)1a(7)	1803	Low Temperature Stress Resistance	1/13/00
913.14(b)1a(8)	1812	Bond Strength.....	1/13/00
913.14(b)1a(9)	1818	Hardness	1/13/00
913.14(b)1b	1825	Packaging	1/13/00
913.14(b)1c	1830	Basis for Use	1/13/00
913.14(c)	2022	Temporary Pavement Marking Tape	1/14/99
913.14(d)1a(1)	2073	Optical Performance.....	3/11/99
913.19	4144	Geotextile for Use with Underdrains	3/11/99