

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPPLEMENTAL SPECIFICATIONS
TO THE
1999
STANDARD SPECIFICATIONS

EFFECTIVE FOR LETTINGS
ON OR AFTER
MARCH 1, 2004

Includes May 22, 2003 Minutes

INDOT INTERNET ADDRESS: www.in.gov/dot/

1999 STANDARD SPECIFICATIONS WITH SUPPLEMENTALS
<http://www.state.in.us/dot/div/contracts/standards/book/index.html/>

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 twice a year with effective dates of March 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
Note #9	Pg. 8	GENERAL NOTES	5/22/02
101.01	15	Abbreviations	5/22/03
<i>101.18.1</i>	186	<i>Embankment Foundation</i>	5/17/01
101.56	371	Subgrade	5/17/01
103.01(c)2	112	DBE Joint Venture Type B	8/14/02
104.04	137	Maintenance of Traffic	3/16/00
104.04(d)	213	Traffic Control for Patching on a Two-Lane Roadway	1/14/99
105.08(b)	258	Construction Engineering by the Contractor	3/14/02
105.14	459	Failure to Maintain Roadway, Structures, Barricades and Construction Signs	11/15/01
<i>105.17</i>	499	<i>Field Office</i>	5/22/03
<i>105.18</i>	755	<i>Method of Measurement</i>	5/17/01
<i>105.19</i>	759	<i>Basis of Payment</i>	5/17/01
106.02	112	Samples, Tests, Cited Specifications	9/19/02
106.05	163	Storage of Materials	8/14/02
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	11/15/01
107.14.1	489	Erosion Control Plan and Proof of Publication	11/16/00
107.17	580	Opening Sections of Project to Traffic	11/15/01
<i>108.01.1</i>	27	<i>Release of Retainage to Subcontractors</i>	8/16/01
108.03	50	Prosecution of the Work	11/16/00
108.07	337	Determination and Extension of Contract Time	11/15/01
109.01(a)	18	General Requirements	5/22/02
109.01(e)	187	Measurement of Portland Cement Concrete <i>PCC</i>	2/11/99
109.01(f)	214	Measurement of Aggregates	2/15/01
109.03	302	Compensation for Altered Quantities	10/14/99
109.07	566	Partial Payments	8/16/01
201.02	13	General	8/14/02
201.07(d)	143	Individual Unit Basis	8/14/02
202.05	228	Removal of Pavement, Sidewalks, Curbs, Surface, Surface Milling, etc.	1/13/00
202.07	403	Removal of Underground Storage Tanks Containing Petroleum Products or Other Hazardous Chemicals	10/18/01
202.13	570	Basis of Payment	10/18/01
203.08	43	Borrow or Disposal	11/16/00
203.09	129	General Requirements	5/22/02
203.10	236	Disposal of Excavated Material (Except Waterway and Peat Excavation)	11/16/00
203.12	266	Disposal of Peat	11/16/00

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SUBSECTION	LINE	TITLE	DATE REVISED
203.16	439	Peat Deposit Treatment	11/16/00
203.16(b)	479	Treatment by Removal	5/22/02
203.16(c)	511	Treatment by Displacement	11/16/00
203.20(b)	656	Shale, Shale and Soft Rock Mixtures, or Soft Rock	2/15/01
203.23	760	Embankment Other Than Rock and Shale, With Density Control	2/15/01
203.24(b)	801	Field	5/17/01
203.26	844	Proofrolling	5/22/02
203.27(g)	961	Measurement of Subgrade <i>Embankment Foundation Soils</i> Treatment	5/17/01
203.28	990	Basis of Payment	5/17/01
204.02	11	Materials	5/22/02
<i>205</i>	<i>1</i>	<i>TEMPORARY EROSION AND SEDIMENT CONTROL</i>	11/16/00
<i>205.05</i>	<i>262</i>	<i>Removal</i>	5/22/02
206.02(b)	46	Excavation for Foundations of Traffic Support Structures	10/12/00
206.07	125	Disposal of Excavated Material	11/16/00
206.09	221	Cofferdams and Temporary Construction Dikes	11/16/00
206.10	243	Method of Measurement	5/17/01
206.11	269	Basis of Payment	5/17/01
206.11(a)	358	Culverts and Retaining Walls	5/17/01
206.11(c)	426	Traffic Structure Supports	10/12/00
<i>207</i>	<i>1</i>	<i>SUBGRADE</i>	5/17/01
<i>207.02</i>	<i>169</i>	<i>Materials</i>	5/22/02
<i>207.04</i>	<i>220</i>	<i>Subgrade Treatments</i>	5/22/02
<i>207.05(a)</i>	<i>259</i>	<i>Fill Sections</i>	5/22/02
<i>27.05(b)</i>	<i>266</i>	<i>Cut Sections</i>	5/22/02
<i>207.06</i>	<i>280</i>	<i>Method of Measurement</i>	5/22/02
<i>207.07</i>	<i>292</i>	<i>Basis of Payment</i>	5/22/02
209.02	16	Construction Requirements	5/17/01
210.02	16	Construction Requirements	11/16/00
<i>211</i>	<i>1</i>	<i>B BORROW FILL AND BACKFILL</i>	5/22/02
211.02	205	<i>Materials</i>	1/16/03
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
<i>211.07.1</i>	<i>96</i>	<i>Aggregate For End Bent Backfill</i>	9/16/99
211.09	102	Method of Measurement	2/15/01
<i>211.10</i>	<i>143</i>	<i>Basis of Payment</i>	1/16/03
213	1	FLOWABLE MORTAR <i>BACKFILL</i>	1/16/03
213.02	12	Materials	5/22/02
213.04(b)	53	Average Penetration Resistance	10/18/01
214	1	<i>Blank GEOGRID</i>	1/17/02
<i>215</i>	<i>1</i>	<i>CHEMICAL MODIFICATION OF SOILS</i>	5/17/01

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<i>216</i>	1	<i>CELLULAR CONCRETE FILL, CCF</i>	9/16/99
300	1	<i>AGGREGATE PAVEMENT AND BASES</i>	5/22/02
301	1	Blank <i>AGGREGATE BASE</i>	5/22/02
302	1	Blank <i>SUBBASE</i>	5/22/02
<i>302.06(a)</i>	43	<i>Aggregate Separation Layers and Dense Graded Subbase</i>	5/22/03
<i>303</i>	1	<i>AGGREGATE PAVEMENTS OR SHOULDERS</i>	5/22/02
303.02	29	Materials	3/11/99
303.05	68	Preparation of Subgrade or Subbase	2/15/01
303.09	112	Compacting Aggregate	2/15/01
<i>304</i>	1	<i>ASPHALT BASES</i>	5/22/02
304.01	3	Description	2/11/99
<i>304.05</i>	140	<i>Widening</i>	5/22/03
<i>304.07</i>	180	<i>Basis of Payment</i>	5/22/03
<i>305</i>	1	<i>CONCRETE BASES</i>	5/22/02
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 <i>PCC</i>	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 <i>PCC</i>	2/11/99
305.11	267	Method of Measurement	2/11/99
305.12	271	Basis of Payment	2/17/00
<i>307</i>	1	PORTLAND CEMENT CONCRETE BASES <i>Blank</i>	5/22/02
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 <i>Blank</i>	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 <i>BLANK</i>	2/11/99
<i>400</i>	1	<i>QUALITY CONTROL/QUALITY ASSURANCE, QC/QA, HOT MIX ASPHALT, HMA, PAVEMENT</i>	5/22/02
<i>401.03</i>	683	<i>Materials</i>	11/14/02
<i>401.04</i>	689	<i>Design Mix Formula</i>	11/14/02

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SUBSECTION	LINE	TITLE	DATE REVISED
<i>401.05</i>	703	<i>Volumetric Mix Design</i>	5/22/03
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	11/30/00
401.06	115	Recycled Materials	1/13/00
401.07	133	Lots and Sublots	12/17/98
401.08	821	Job Mix Formula	5/22/03
<i>401.09</i>	838	<i>Acceptance of Mixtures</i>	5/22/03
401.11	206	Preparation of Surfaces to be Overlaid	1/13/00
401.14	257	Spreading and Finishing	11/30/00
401.16	272	Density	5/22/03
401.16(a)	296	Mainline ESAL Equal To or Greater Than 10,000,000 <i>1,000,000</i>	11/30/00
401.16(b)	340	Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 <i>Blank</i>	12/17/98
401.16(c)	366	Mainline ESAL Less Than 3,000,000 <i>1,000 000</i>	11/30/00
401.16(d)	366	<i>Shoulders</i>	11/30/00
401.17	369	Shoulder Corrugations	3/15/01
401.17(a)	372	Formed Corrugations	3/15/01
401.17(b)	378	Milled Corrugations	3/15/01
<i>401.18</i>	1009	<i>Pavement Smoothness</i>	5/22/03
<i>401.19</i>	1098	<i>Pay Factors</i>	5/22/03
401.19(a)	498	Mixture	2/11/99
<i>401.19(b)</i>	1133a	<i>Density</i>	5/22/03
401.19(b)1	510	Mainline ESAL Equal To or Greater Than 10,000,000 <i>1,000,000</i>	11/30/00
401.19(b)2	514	Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 <i>Blank</i>	12/17/98
401.19(c)	532	Smoothness	5/22/03
<i>401.20</i>	1166	<i>Appeals</i>	11/14/02
401.20(a)	553	Mixture	1/13/00
401.20(b)1	557	Mainline ESAL Equal To or Greater Than 10,000,000 <i>1,000,000</i>	1/13/00
401.20(b)2	567	Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 <i>Blank</i>	12/17/98
<i>401.20(d)</i>	1184	<i>BSG of the Density Core</i>	11/14/02
401.21	590	Method of Measurement	4/12/01
401.22	598	Basis of Payment	4/12/01
<i>402</i>	1	<i>HOT MIX ASPHALT, HMA, PAVEMENT</i>	
402.03	26	Job Mix Formula	11/30/00
<i>402.04</i>	483	<i>Design Mix Formula</i>	5/22/03
<i>402.05</i>	498	<i>Volumetric Mix Design</i>	5/22/03

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<i>402.06</i>	519	<i>Job Mix Formula</i>	5/22/03
402.06(a)	107	Mainline and Shoulders	11/30/00
402.06(b)	107	Wedge and Leveling and Rumble Strips	1/13/00
402.07	27	Preparation of Mixtures	11/30/00
<i>402.08</i>	554	<i>Recycled Materials</i>	5/22/03
<i>402.09</i>	564	<i>Acceptance of Mixtures</i>	5/22/03
402.10	160	Weather Limitations	4/12/01
402.11	218	Spreading and Finishing	11/30/00
402.13	254	Compaction	11/30/00
402.14	297	Low Temperature Density Requirements	4/12/01
402.15	343	Shoulder Corrugations	3/15/01
402.15(a)	346	Formed Corrugations	3/15/01
402.15(b)	354	Milled Corrugations	3/15/01
402.17	384	Method of Measurement	4/12/01
402.18	427	Basis of Payment	4/12/01
<i>403</i>	1	<i>COLD MIX ASPHALT, CMA, PAVEMENT</i>	5/22/02
<i>404</i>	1	<i>SEAL COAT</i>	5/22/02
405	1	<i>PRIME COAT</i>	5/22/02
<i>405.02</i>	74	<i>Asphalt Material</i>	5/22/03
<i>405.07</i>	96	<i>Application of Asphalt Material</i>	5/22/03
<i>406</i>	1	<i>TACK COAT</i>	5/22/02
<i>406.02</i>	52	<i>Asphalt Material</i>	5/22/03
<i>407</i>	1	<i>DUST PALATIVE</i>	5/22/02
<i>408</i>	1	<i>SEALING CRACKS AND JOINTS</i>	5/22/02
408.03(f)1	185	Profilograph	2/11/99
409	1	Blank <i>EQUIPMENT</i>	5/22/02
<i>409.02</i>	7	<i>Mixing Plant</i>	5/22/03
409.02(a)	10	Certified HMA Mixing Plant	5/22/03
409.02(a)1	12	Plant Inspection	5/22/03
409.02(a)2	15	Proportioning Systems	5/22/03
409.02(a)3	19	Material Storage	5/22/03
409.02(a)3a	21	Aggregates	5/22/03
409.02(a)3b	25	Asphalt	5/22/03
409.02(a)4	35	Aggregate Feed System	5/22/03
409.02(a)5	42	Drier Unit	5/22/03
409.02(a)6	47	Dust Collector	5/22/03
409.02(a)7	52	Mixing Unit	5/22/03
409.02(a)8	55	Mix Load-out Scales	5/22/03
409.02(a)9	69	Hot Surge Bins	5/22/03
409.02(a)10	78	Sampling Point Requirements	5/22/03
<i>409.02(b)</i>	81	<i>CMA Mixing Plant</i>	5/22/03

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SUBSECTION	LINE	TITLE	DATE REVISED
500	1	RIGID CONCRETE PAVEMENT	2/11/99
501.03	25	Materials	5/22/02
501.04	49	Concrete Mix Design	5/22/03
501.05	66	Concrete Mix Criteria	5/22/03
501.06	96	Trial Batch	5/22/02
501.07	113	Lots and Sublots	5/22/03
501.08	133	Acceptance	5/22/02
501.09	137	General	5/22/02
501.11	143	Preparation of Subbase	5/22/02
501.12	146	Placement	5/22/02
501.24	271	Shoulder Corrugations	5/22/02
501.24(a)	274	Formed Corrugations	5/22/02
501.24(b)	263	Milled Corrugations	5/22/02
501.25	274	Pavement Smoothness	5/22/03
501.26	326	Pavement Thickness	5/22/03
501.26(a)	370	PCCP Removal	5/22/03
501.26(b)	370	PCCP Non-Payment	5/22/03
501.26(c)	389	PCCP Thickness	5/22/03
501.27(d)	425	Air Content	2/17/00
501.28	424	Adjustment Points Pay Factors	5/22/03
501.28(a)	463	Flexural Strength	5/22/03
501.28(a)1	466	Lots	5/22/03
501.28(a)2	487	Sublots	5/22/03
501.28(b)	492	Air Content	5/22/03
501.28(b)1	495	Lots	5/22/03
501.28(b)2	529	Sublots	5/22/03
501.28(c)	534	Thickness	5/22/03
501.28(d)	543	Smoothness	5/22/03
501.29(a)	599	Flexural Strength	5/22/02
501.30	635	Method of Measurement	5/22/02
501.31	626	Basis of Payment	5/22/03
502.02	12	Materials	5/22/02
502.03	36	Concrete Mix Design	5/22/03
502.04(b)	100	High-Early Strength Concrete	5/22/03
502.05	104	Job Control	5/22/02
502.06	117	General	5/22/02
502.08	141	Preparation of Subbase	5/22/02
502.09	144	Placement	5/22/02
502.19	323	Shoulder Corrugations	5/22/02
502.19(a)	326	Formed Corrugations	5/22/02
502.19(b)	330	Milled Corrugations	5/22/02
502.20	325	Pavement Smoothness	5/22/03

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502.21	379	<i>Pavement Thickness</i>	5/22/03
502.21(a)	413	<i>Sections</i>	5/22/03
502.21(b)	425	<i>Average PCCP Thickness</i>	5/22/03
502.21(bc)	425	Adjusted Payment	5/22/03
502.21(ed)	429	PCCP Non-Payment	5/22/03
502.21(de)	439	PCCP Removal	5/22/03
502.21(e)	448	PCCP Thickness	5/22/03
502.22	468	<i>Method of Measurement</i>	5/22/02
502.23	475	<i>Basis of Payment</i>	5/22/03
503.02	8	<i>Materials</i>	5/22/02
503.03	32	<i>Joints</i>	5/22/02
503.03(b)	58	<i>Longitudinal Joint</i>	5/22/02
503.03(d)	86	<i>Longitudinal Construction Joint</i>	5/22/02
503.03(e)	106	<i>Terminal Joints</i>	5/22/02
503.03(g)	126	<i>Retrofitted Tie Bars</i>	5/22/02
503.05	180	<i>Sealing Cracks and Joints</i>	5/22/03
503.06	187	<i>Random Crack Remediation</i>	5/22/02
503.06(a)	190	<i>Transverse</i>	5/22/02
503.06(b)	190	<i>Longitudinal</i>	5/22/02
503.07	214	<i>Method of Measurement</i>	5/22/03
503.08	240	<i>Basis of Payment</i>	5/22/03
504.03	14	<i>Finishing</i>	5/22/03
504.04(a)	77	<i>Liquid Membrane Forming Compounds</i>	5/22/03
505.01(e)	63	<i>Exceptions to AASHTO T 152</i>	2/17/00
506.02	10	<i>Materials</i>	5/22/03
506.03	31	<i>Concrete Mix Design</i>	5/22/03
506.04	55	<i>Concrete Mix Criteria</i>	5/22/03
506.05	70	<i>Trial Batch</i>	5/22/03
506.06	87	<i>Job Control</i>	5/22/03
506.08	152	<i>Job Control</i>	5/22/03
506.08(a)	164	<i>Central Mixed Concrete</i>	5/22/03
506.08(b)	177	<i>Shrink Mixed Concrete</i>	5/22/03
506.08(c)	186	<i>Transit Mixed Concrete</i>	5/22/03
506.09	194	<i>Weather Limitations</i>	5/22/03
506.10	201	<i>Placing Concrete</i>	5/22/03
506.10(a)	212	<i>Partial Depth</i>	5/22/03
506.10(b)	223	<i>Full Depth</i>	5/22/03
506.11	238	<i>Opening to Traffic</i>	5/22/03
507	1	<i>PCCP RESTORATION</i>	5/22/02
508	1	<i>EQUIPMENT</i>	5/22/02
601.02	15	<i>Materials</i>	11/14/02

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601.06	99	Guardrail Transitions	6/17/99
601.07	103	Guardrail End Treatments	11/15/01
<i>601.07.1</i>	123	<i>Impact Attenuators</i>	11/16/00
601.12	148	Method of Measurement	11/16/00
601.13	158	Basis of Payment	11/16/00
602.02	20	Materials	11/15/01
602.03(b)	52	Cast-in-Place Concrete Barrier and Concrete Glare Screen	11/16/00
602.03(c)	54	Finishing	5/17/01
602.03(f)	68	Reflectorization	11/16/00
603	1	FENCES	1/16/03
604	1	SIDEWALKS, CURB RAMPS AND STEPS, AND <i>HANDRAILS</i>	11/14/02
604.02	11	Materials	5/22/02
602.04	73	Temporary Concrete Barrier <i>Blank</i>	11/15/01
602.04(d)	135	Delineation	11/15/01
602.05	148	Method of Measurement	11/15/01
602.06	159	Basis of Payment	11/15/01
603.02	14	Materials	10/12/00
604.07(c)	123	Placing HMA Sidewalk	5/22/02
604.09	140	Method of Measurement	5/22/02
604.10	171	Basis of Payment	5/22/02
605.02	12	Materials	5/22/03
605.04(c)	58	Proportioning and Placing	5/22/03
605.04(e)	87	Joints	5/22/03
605.04(i)	111	Integral Curb Walk	5/22/03
605.06	131	Cement Concrete Center Curbing	5/22/03
605.07(c)	171	Mixture	5/22/02
605.09	227	Method of Measurement	5/22/03
605.10	250	Basis of Payment	5/22/03
606	1	Blank <i>SHOULDER CORRUGATIONS</i>	5/22/02
608.02	11	Materials	5/22/02
609	1	Blank <i>RREINFORCED CONCRETE BRIDGE APPROACHES</i>	2/13/03
<i>609.09</i>	41	<i>Finishing</i>	5/22/03
610	1	SURFACES FOR APPROACHES AND CROSSOVERS	2/13/03
610.01	3	Description	2/11/99
610.02	15	Materials	5/22/02
610.03	22	General Requirements	5/22/02
610.04	49	Existing Approaches and Crossovers	5/22/02
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	8/14/02

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610.07	99	Basis of Payment	8/14/02
611	1	CROSSTOVERS, DRIVEWAYS AND MAILBOX INSTALLATIONS	2/13/03
611.01	3	Description	5/22/02
611.02	11	Materials	5/22/02
611.03	24	General Requirements	5/22/02
611.04	30	Temporary Crossover <i>Blank</i>	11/15/01
611.06	76	Method of Measurement	11/15/01
611.07	93	Basis of Payment	5/22/02
614.01	3	Description	2/11/99
614.02	12	Materials	2/11/99
614.03	26	Cement Concrete <i>PCC Header</i>	5/18/00
615.01	3	Description	5/22/02
615.02	12	Materials	5/22/02
615.04	52	Monuments	5/22/02
616.02	9	Materials	5/22/02
616.03	23	Placing Dumped Riprap	5/22/02
616.04	23	Placing Grouted Riprap	5/22/02
616.04 616.05	29	Placing Revetment, Class 1, and Class 2 Riprap	5/22/02
616.05 616.06	36	Placing Uniform Riprap	5/22/02
616.06	41	Blank	5/22/02
616.07	43	Placing Grouted Riprap <i>Blank</i>	5/22/02
616.12	159	Basis of Payment	5/22/02
619.03	34	Quality Control and Quality Assurance	8/17/00
619.06	116	Maintaining Traffic	1/14/99
621.01	4	Description	11/16/00
621.02	13	Materials	5/17/01
621.03	24	Preparation of Ground Before Seeding	11/16/00
621.06	207	Seed Mixtures	11/16/00
621.06(a)	210	Seed Mixture R	11/16/00
621.06(b)	216	Seed Mixture U	11/16/00
621.06(c)	224	Seed Mixture P	11/16/00
621.06(d)	232	Seed Mixture CV	2/15/01
621.06(f)	253	Seed Mixture T	11/16/00
621.06(f)1	267	Conventional <i>Spring Mix</i>	11/16/00
621.06(f)2	271	Color <i>Fall Mix</i>	11/16/00
621.10.1	364	Seeding or Sodding Disturbed Areas Outside Construction <i>Limits</i>	8/14/02
621.13	400	Basis of Payment	8/14/02
622.20	368	“Do Not Mow or Spray” Signs and “Do Not Disturb” Signs	10/14/99
701.02	12	Materials	11/18/99

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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	8/16/01
701.15(d)	653	Prestressed Concrete Piles	11/18/99
702.03	31	Materials	5/22/02
702.05	64	Proportioning	2/11/99
702.11	486	Cold Weather Concrete	5/22/02
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(f)g	683	Removal and Re-Use of Forms	5/13/99
702.13(g)h	711	Test Beams	3/15/01
702.21	1078	Finishing Concrete Surfaces	5/17/01
702.21(a)	1093	Class 1 Finish	5/17/01
702.21(b)	1108	Class 2 Finish	5/17/01
702.21(c)	1123	Class 3 Finish	5/17/01
702.22	1131	Curing Concrete	3/14/03
702.22(a)	1150	Protective Covering Curing Methods	3/14/03
702.24	1276	Application of Loads to and Acceptance of New Concrete	2/11/99
702.28	1354	Basis of Payment	5/22/03
704.05	80	Finishing Concrete	5/22/02
705.03	18	Construction Requirements	2/11/99
706	1	BRIDGE RAILINGS	11/14/02
706.02	16	Materials	6/17/99
706.03	35	Concrete Railing	4/18/02
706.05	78	Aluminum and Steel Railings	10/12/00
707.01	4	Description	5/13/99
707.02	17	Materials	5/22/02
707.03	31	General Requirements	5/13/99
707.04(c)	115	Concrete	2/13/03
707.05	161	Forms	5/13/99
707.06	187	Placing and Finishing Cement Concrete	5/17/01
707.08	273	Handling and Shipping	1/16/03
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	1/16/03
708.02	8	Materials	5/22/03
709.01	5	Description	5/17/01
709.03	16	Surface Preparation	5/17/01
709.05(e)	114	Alternate To Concrete Sealers	5/17/01
710.07	51	Basis of Payment	5/17/01
711.14	184h	Edge Planing	8/17/00

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711.32(a)	362	AWS Requirements	8/16/01
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	11/15/01
713.08	78	Method of Measurement	11/15/01
713.09	85	Basis of Payment	3/14/03
714.02	10	Materials	5/22/02
714.06	81	Method of Measurement	5/22/02
714.07	96	Basis of Payment	5/22/02
715.02	23	Materials	1/16/03
715.02(j)	121	Grated Box End Sections	5/22/02
715.03	170	Excavation	5/22/02
715.04	193	Laying Pipe	2/13/03
715.08	266	Backfilling	1/16/03
715.11	367	Method of Measurement	1/16/03
715.12	382	Basis of Payment	1/16/03
<i>716</i>	1	<i>TRENCHLESS PIPE INSTALLATION</i>	3/14/02
<i>716.02</i>	159	<i>Materials</i>	5/22/02
717.02	9	Materials	1/16/03
717.03	43	General Requirements	5/22/02
717.04	78	Backfill	1/16/03
717.08	140	Method of Measurement	1/16/03
717.09	153	Basis of Payment	1/16/03
718	1	UNDERDRAINS	6/17/99
<i>718.02</i>	141	<i>Materials</i>	5/22/02
<i>718.05</i>	179	<i>Underdrain Outlets</i>	5/22/02
<i>718.08</i>	220	<i>Method of Measurement</i>	5/22/02
<i>718.09</i>	247	<i>Basis of Payment</i>	5/22/02
719.02	11	Materials	1/16/03
719.07	75	Method of Measurement	1/16/03
719.08	92	Basis of Payment	1/16/03
720.03	139	General Requirements	5/22/03
720.06	221	Basis of Payment	5/22/03
722.02	11	Materials	1/16/03
722.04	58	Proportioning	5/22/02
722.08	278	Placing and Finishing	2/11/99
722.09	286	Texturing	2/11/99
722.10	305	Curing	5/13/99
722.13	484	Method of Measurement	8/14/02
722.14	515	Basis of Payment	5/17/01

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<i>725</i>	1	<i>SLIP LINING OF EXISTING PIPE</i>	11/15/01
<i>725.02</i>	12	<i>Materials</i>	1/16/03
<i>725.03(b)</i>	89	<i>Filling of Cavities Outside the Existing Pipe</i>	1/16/03
<i>725.05</i>	150	<i>Basis of Payment</i>	1/16/03
<i>801</i>	1	<i>TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS</i>	10/14/99
<i>801.02</i>	11	<i>Materials</i>	9/19/02
<i>801.03</i>	39	<i>General Requirements</i>	5/22/02
<i>801.04</i>	152	<i>Construction Signs</i>	5/22/03
<i>801.04(e)</i>	147	<i>Temporary Panel Sign</i>	2/15/01
<i>801.07(c)</i>	193	<i>Permanent Type III Barricades</i>	10/18/01
<i>801.08</i>	187	<i>Cones and Tubular Markers</i>	2/17/00
<i>801.09</i>	250	<i>Drums</i>	8/14/02
<i>801.10</i>	258	<i>Temporary Concrete Barriers</i>	5/22/02
<i>801.10(a)</i>	258	<i>Placement</i>	11/15/01
<i>801.10(b)</i>	258	<i>Connection</i>	5/22/02
<i>801.10(c)</i>	258	<i>Anchorage</i>	11/15/01
<i>801.10(d)</i>	258	<i>Delineation</i>	11/15/01
<i>801.11</i>	258	<i>Temporary Crossovers</i>	5/22/02
801.10 <i>801.12</i>	259	<i>Temporary Pavement Marking</i>	11/15/01
801.11 <i>801.13</i>	348	<i>Temporary Illumination</i>	11/15/01
801.12 <i>801.14</i>	359	<i>Construction Warning Lights</i>	11/15/01
801.13 <i>801.15</i>	390	<i>Electronic Devices</i>	11/15/01
<i>801.15(b)</i>	541	<i>Changeable Message Signs</i>	8/14/02
<i>801.15(c)</i>	547	<i>Temporary Worksite Speed Limit Sign Assembly</i>	2/13/03
801.14 <i>801.16</i>	470	<i>Temporary Traffic Control Zone</i>	11/15/01
801.15 <i>801.17</i>	519	<i>Method of Measurement</i>	5/22/02
801.16 <i>801.18</i>	565	<i>Basis of Payment</i>	5/22/03
<i>802</i>	1	<i>SIGNS</i>	10/12/00
<i>802.02</i>	263	<i>Materials</i>	1/17/02
<i>802.06</i>	295	<i>Placing Concrete</i>	5/17/01
<i>802.07(b)</i>	322	<i>Structural Frames</i>	5/22/03
<i>802.08</i>	365	<i>Installing Signs</i>	8/16/01
<i>802.12</i>	479	<i>Basis of Payment</i>	3/14/02
<i>803</i>	1	<i>WELDING ALUMINUM ALLOYS</i>	10/12/00
<i>804</i>	1	<i>DELINEATORS</i>	10/12/00
<i>805.02</i>	12	<i>Materials</i>	5/22/02
<i>805.08</i>	245	<i>Controller Cabinet, Signal Service, and Detector Housing Installation</i>	5/22/02
<i>806</i>	1	<i>TEMPORARY TRAFFIC SIGNALS BLANK</i>	1/14/99
<i>807.03</i>	19	<i>Materials</i>	5/22/02

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807.10(a)	318	Cast-in-Place Foundations	5/22/02
807.10(b)	325	Precast Foundations	5/22/02
807.11(a)	346	Lighting Standards Under 24 m (80 ft) in Height	7/19/01
807.19	746	Basis of Payment	7/19/01
808.02	13	Materials	1/14/99
808.06(a)1	143	Application	8/14/02
808.07(b)	256	Vehicle Warning Lights	11/15/01
808.11	433	Method of Measurement	10/12/00
808.12	472	Basis of Payment	8/14/02
901	1	HYDRAULIC CEMENT AND POZZOLANS <i>PCC MATERIALS</i>	3/16/00
901.01(b)2b	86	Requirements for Domestic Source Qualification	8/17/00
901.01(b)2c	104	Requirements for Foreign Source Qualification	8/17/00
901.02(b)1	174	Requirements	2/11/99
901.02(b)3	218	Documentation	8/17/00
901.03(b)3	303	Documentation	8/17/00
901.04	328	Microsilica <i>Silica Fume</i> 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
901.04(b)4	392	Documentation	8/17/00
<i>901.05</i>	414	<i>Chemical Anchor Systems</i>	1/13/00
<i>901.05(a)</i>	414	<i>Requirements</i>	1/13/00
<i>901.05(b)</i>	414	<i>Laboratory Testing</i>	1/13/00
<i>901.06</i>	414	<i>PCC Sealer/Healers</i>	1/13/00
<i>901.06(a)</i>	414	<i>Requirements</i>	1/13/00
<i>901.06(b)</i>	414	<i>Laboratory Testing</i>	1/13/00
<i>901.07</i>	414	Rapid Setting Patch Materials	3/16/00
<i>901.07(a)</i>	414	<i>Normal Weather Mixes</i>	3/16/00
<i>901.07(b)</i>	414	<i>Hot Weather Mixes</i>	3/16/00
<i>901.07(c)</i>	414	<i>Requirements</i>	3/16/00
<i>901.07(d)</i>	414	<i>Test Report</i>	3/16/00
<i>902</i>	1	ASPHALT MATERIALS	5/22/03
902.01(a)	7	Performance Graded Asphalt Binders	11/14/02
902.01(a)1	24	<i>Lots and Sublots</i>	4/12/01
902.01(a)1.2	24	Sampling	4/12/01
902.01(a)2.3	37	Appeals	11/14/02
902.01(b)	95	Asphalt Emulsions	5/22/02
902.02	268	Sampling and Testing Asphalt Materials	11/14/02
<i>904</i>	1	AGGREGATES	5/22/02
<i>904.01</i>	430	<i>Aggregates</i>	5/22/03

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904.01(b)	44	For HMA Mixtures	11/15/01
904.01(e)	83	Mineral Filler	1/13/00
904.01(h)	121	Sampling and Testing	2/11/99
<i>904.02</i>	498	<i>Fine Aggregates</i>	11/14/02
904.02(a)	126	General Requirements	11/15/01
904.02(b)	261	Classification of Aggregates	11/15/01
904.02(c)	270	Coarse Aggregate Angularity	11/15/01
904.02(d)	285	Surface Aggregate Requirements	11/30/00
904.02(e)	290p	Sizes of Coarse Aggregates	11/19/98
904.02(f)	298	Sampling and Testing	2/15/01
<i>904.03</i>	574	<i>Coarse Aggregates</i>	11/14/02
904.03(b)	332	Exceptions to AASHTO T 11, T 27, and T 37	2/15/01
904.03(c)	337	Exceptions to AASHTO T 27 for Coarse Aggregates	2/15/01
<i>904.04(d)</i>	694	<i>Uniform Riprap</i>	5/22/03
<i>904.04(e)</i>	697	<i>Sizes of Riprap</i>	5/22/03
<i>905.04</i>	22	<i>Precast Concrete Riprap</i>	5/22/02
<i>905.05</i>	22	<i>Detectable Warning Elements</i>	10/17/02
906.01	3	Joint Fillers	5/22/02
906.02(a)1d	40	Certification	3/11/99
906.02(a)2a	48	General Requirements	5/18/00
906.02(a)3	68	Preformed Elastomeric Joint Seals	7/19/01
906.04	89	Rubber Type Gaskets	5/22/03
906.05	93	Bituminous Mastic Pipe Joint Sealer	5/22/03
906.05(b)	107	Detail Requirements	5/22/03
906.05(e) (b)	130	Certification	5/22/03
906.05.1	133	Joint Membrane System for Precast Reinforced Concrete Box Sections	5/22/03
906.06(a)	183	Type SS	4/12/01
906.06(b)	191	Type BS2, BS6, BS8, BS9, <i>and</i> BS11, and 1-A	
907.02	25	Reinforced Concrete Pipe	7/19/01
<i>907.24.1</i>	200	<i>Thermoplastic Pipe Liners</i>	11/15/01
909.01	3	General Requirements	11/14/02
909.02(a)1	36	Two-Component and Multi-Component Inorganic Zinc Silicate Primer	11/14/02
909.02(a)2	56	Single Package Inorganic Zinc Silicate Primer	11/14/02
909.02(a)3	60	Organic Zinc Primer	11/14/02
909.02(a)4	95	Approval of Formulation	11/14/02
909.02(a)5	115	Reapproval of Formulation	11/14/02
909.02(b)	138	Epoxy Intermediate Paint	11/14/02
909.02(c)	157	Polyurethane Finish Coat	11/14/02
909.02(d)3	194	Mixed Paint Properties	11/14/02
909.02(d)5	224	Approval of Formulation	11/14/02

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909.02(e)	228	Finish Coat for Weathering Steel	5/18/00
909.03(c)	261	Approval of Structural Steel Coating System	11/14/02
909.03(d)	268	Structural Steel Coating System Re-approval	11/14/02
909.05(a)	336	Standard Traffic Paint <i>Blank</i>	11/14/02
909.05(a)1	337	General Requirements	11/14/02
909.05(a)2	376	Specific Requirements	11/14/02
909.05(b)1	413	General Requirements	11/14/02
909.05(b)2	463	Specific Requirements	11/14/02
909.05(c)2	566	Specific Requirements	11/14/02
909.05(c)3	627	Formulation Approval	11/14/02
909.05(c)4	630	Formulation Reapproval	11/14/02
909.07	681	Miscellaneous Paints and Ingredients <i>Blank</i>	3/11/99
909.09(a)	706	Polysulfide Type	8/14/02
909.09(b)	721	Unmodified Type	5/22/02
909.09(c)	730	Specific Requirements	11/14/02
909.09(f)	765	Approval of Formulation	11/14/02
909.10	794	Proprietary Portland Cement Concrete <i>PCC Sealers</i>	12/16/99
<i>909.10(a)</i>	824	<i>Properties</i>	12/16/99
<i>909.10(b)</i>	824	<i>Test Report</i>	12/16/99
910.01(a)	5	General	5/22/02
910.01(b)9c	114	Epoxy Coated Reinforcing Bars	3/16/00
910.09(a)	447	Steel Beam Guardrail	11/14/02
910.09(b)	468	Aluminum Rail	11/14/02
910.10	478	Guardrail Posts	11/14/02
910.10(a)	484	Steel Guardrail Posts	11/14/02
910.10(b)	496	Aluminum Guardrail Posts	11/14/02
910.10(e)(b)	500	Wood Guardrail Posts	11/14/02
910.11(a)	515	For Steel Beam Guardrail	11/14/02
910.11(b)	584	For Aluminum Guardrail	11/14/02
910.11(e)(b)	607	For Steel Tube Guardrail	11/14/02
910.12	633	Samples and Certification of Guardrail, Posts, Accessories, Fittings, and Hardware <i>Suppliers</i>	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(a)1	773	General Requirements	1/17/02
910.14(b)	840	Wide Flange Posts	10/14/99
910.14(c)	849	Structural Steel Posts	1/17/02
910.14(d)	854	Structural Aluminum Posts	1/17/02
910.14(e)	859	Square Steel Posts	1/17/02
910.14(e)1	874	Steel	11/19/98
910.14(e)2	875	Fabrication	11/19/98

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910.14(e)3	880	Protective Coating	11/19/98
<i>910.14(f)</i>	895	<i>Portable Construction Sign Trailer</i>	2/11/99
910.15	896	Delineator Posts	10/12/00
910.16	919	Copper Flashing	3/11/99
910.20	1225	Blank <i>Steel Bridge Railing Components</i>	6/17/99
<i>910.22</i>	1230	<i>Welding Supplies</i>	10/12/00
<i>910.22(a)</i>	1230	<i>Aluminum Alloy Base Metals</i>	10/12/00
<i>910.22(a)1</i>	1230	<i>Bare Wire Electrodes and Welding Rods</i>	10/12/00
<i>910.22(a)2</i>	1230	<i>Filler Metal</i>	10/12/00
<i>910.22(a)3</i>	1230	<i>Shielding Gases</i>	10/12/00
911.02(f)5j	364	Blank	3/14/02
912.01 (f)	24	<i>Polyethylene Film</i>	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	<i>Test Report</i>	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	51	Flexible Delineator Posts	10/12/00
913.07.1	73	Flexible Channelizer and Flexible Tubular Marker	10/12/00
<i>913.08</i>	81	<i>Delineators</i>	10/12/00
<i>913.08(a)</i>	81	<i>Acrylic Plastic Delineators</i>	10/12/00
<i>913.08(b)</i>	81	<i>Reflective Sheeting Delineators</i>	10/12/00
<i>913.08(c)</i>	81	<i>Barrier Delineators</i>	10/12/00
<i>913.08(d)</i>	150	<i>Temporary Barrier Delineator</i>	2/15/01
<i>913.09</i>	150	<i>Glass Beads</i>	5/18/00
<i>913.10</i>	197	<i>Traffic Signs</i>	10/12/00
913.10(a)	240	Sheet Signs <i>Backing Material</i>	5/22/02
913.10(a)1	240	<i>Sheet Signs</i>	5/22/02
913.10(d)1	444	Reflective Sheeting	8/14/02
913.10(g)	946	Sample and Tests	1/17/02
913.10(g)1	948	Reflective Sheeting	1/17/02
913.10(g)2 (e)	959	Traffic Signal Materials <i>Basis for Use</i>	1/17/02
913.11(a)4	1089	Galvanized Steel Lighting Standards	3/14/03
913.12	1574	Construction Warning Lights	1/14/99
913.13	1724	Flashing Arrow Sign	1/14/99
<i>913.13(c)</i>	1773 v	<i>AC Powered</i>	11/15/01
<i>913.13.1</i>	1778	<i>Temporary Worksite Speed Limit Sign Assembly</i>	2/11/99
913.14(b)1	1738	Thermoplastic	1/13/00

SUPPLEMENTAL SPECIFICATIONS
INDIANA DEPARTMENT OF TRANSPORTATION
1999 STANDARD SPECIFICATIONS

March 1, 2004

SUBSECTION	LINE	TITLE	DATE REVISED
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(b)2	1841	Preformed Plastic	5/22/02
913.14(b)2c	1901	Basis For Use	1/17/02
913.14(b)3d	1992	Basis For Use	1/17/02
913.14(c)	2022	Temporary Pavement Marking Tape	1/17/02
913.14(d)1a(1)	2073	Optical Performance	3/11/99
913.14(d)2d	2292	Acceptance Evaluation	1/17/02
913.14(d)2e	2297	Basis for Use	1/17/02
913.15(e)3h	3823	Certification	1/17/02
913.15(f)5g(2)	3965	Roadway Loop Wire	3/14/03
913.19	4144	Geotextile for Use with Underdrains	3/11/99
<i>913.21</i>	4197	Geogrid for Subgrade Stabilization or Modification	1/17/02
<i>913.21(a)</i>	4197	<i>Type I</i>	1/17/02
<i>913.21(b)</i>	4197	<i>Type II</i>	1/17/02
914.02	19	Blank Temporary Seed	11/16/00
916.03(f)	247	Sample Asbestos Exclusion Letter	3/16/00