2024 SUPPLEMENTALS FOR THE 2023 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

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ON PAGE 12, 101.04 - DEFINITIONS

Delete the definition for "Contingency Item" in its entirety and replace with the following in alphabetical order:

Contingency Amount. A dollar amount for items of work that are difficult to accurately estimate or quantify. The Department will pay for authorized work performed under a contingency item as required by the contract. Payment for accepted work will be made using the force account method (109.03.C.5) or as approved by the Engineer.

ON PAGE 23, 102.10 - PROPOSAL ACCEPTANCE AND IRREGULAR PROPOSAL

Add the following to the numbered list:

8. Not having a UEI (Unique Entity Identifier) at the time of bid on a federal-aid contract.

ON PAGE 40, 105.11 - INSPECTION OF WORK

Delete the last two paragraphs of the section.

ON PAGE 41, 105.14.C - MAINTENANCE OF PUBLIC HAUL ROADS

Delete the first full paragraph under this section starting with "The Contractor is responsible for..."

ON PAGE 61, 106.06 - STORAGE AND HANDLING OF MATERIALS

In the third sentence of the first paragraph, delete "re inspect" and replace with "re-inspect".

ON PAGE 66, 107.01.B - NON-FEDERAL AID CONTRACTS

Delete the three paragraphs and replace with the following:

Non-federal-aid contracts must comply with 44-1001 through 44-1005, Idaho Code. Certify compliance monthly during the life of the contract using form ITD-2434, Idaho 95% Resident Monthly Workforce Certification for State-Funded Contracts, except for projects with fifty (50) or fewer employees. If a Contractor is not in compliance, they are required to take corrective action to restore compliance. Failure to supply the form ITD-2434 certifying monthly compliance may be considered a breach of the construction contract.

ON PAGE 66, 107.02 - PERMITS AND LICENSES

Change the section name to "Permits, Licenses, and Taxes".

ON PAGE 69, 107.10 - RESPONSIBILITY FOR INJURY DAMAGE

Delete the fourth paragraph and replace with:

Submit a certificate of insurance to the email address provided on the Award letter and do not start work before obtaining approval of the insurance coverage by the Department.

ON PAGE 87, 108.01 - SUBLETTING OF CONTRACT

Delete the second sentence fourth paragraph and replace with the following:

For federal-aid contracts, the subcontractor must have a Unique Entity Identifier (UEI) prior to Engineer approval of subcontract agreement.

ON PAGE 114, 109.08.3 - ACCEPTANCE AND FINAL PAYMENT

Delete the word "retainage" in Item 3 under 109.08 and replace with "withholding".

ON PAGE 147, 205.03.H.3.a - QUALIFICATIONS

Delete the last sentence in the first paragraph starting with "Provide the following..." and replace with the following:

"The Blaster in Charge must meet the following minimum experience and qualifications or be pre-approved as a Blasting Consultant on ITD's Consultant Term Agreement List."

ON PAGE 147, 205.03.H.3.a - QUALIFICATIONS

Delete item (7).

ON PAGE 183, 301.03.A - GENERAL

Delete the word "enough" from the last sentence of the last paragraph.

ON PAGE 187, 303.03.A - GENERAL

Delete the word "enough" from the last sentence of the last paragraph.

ON PAGE 188, 303.03.C - AGGREGATE BASE MATERIAL

Revise the section name to: "C. Aggregate Base Material - Load, Haul, and Place" Delete "Load, Haul, and Place." from the first paragraph.

ON PAGE 242, TABLE 409.01.A - CLASSIFICATION

Delete the last sentence of Note (f) under Table 409.01-1 starting with "The alkali content..."

ON PAGE 247, 409.03.A - PROPORTIONING

Delete "CRD-C 662CRD-C 662" from the first sentence of the last paragraph on the page.

ON PAGE 251, 409.03.D - MIXING AND DELIVERING

Under Item 10, delete "85°F" and replace with "90°F".

ON PAGE 252, 409.03.F.3 - TEMPERATURE LIMITATIONS

Delete the text in Item 3 and 4 and replace with the following:

- 3. Do not place concrete if the concrete temperature is greater than 90°F. Do not place concrete when the evaporation rate is greater than 0.15 pounds per square foot per hour when tested in accordance with Idaho IT 133. Submit for acceptance an evaporation and curing plan as described in 409.03.M. If the evaporation rate approaches 0.15 pounds per square foot, implement the accepted evaporation and curing plan. Admixtures can be used to extend delivery times and revolutions if noted in the mix design with the approval of the Engineer. Night or early morning placement may be necessary to avoid excess evaporation. Ice used as part of the mixing water must be completely melted by the time the mixing is completed.
- 4. Do not place concrete against any surface with a temperature less than 32°F or greater than 90°F.

ON PAGE 259, 409.03.M - COLD WEATHER CONCRETING WORK PLAN

Replace section name with:

M. Cold and Hot Weather Concreting Work Plans

ON PAGE 260, 409.03.M - COLD WEATHER CONCRETING WORK PLAN

Add the following hot weather information to the end of the section.

Submit for approval a hot weather concreting work plan, also known as an evaporation and curing plan, when ambient temperatures are likely to be above 85°F during placement or when the evaporation rate could potentially approach 0.15 pounds per square foot due to wind and other factors. At no time can the concrete temperature or evaporation rate exceed the limitations specified. The plan may include development of a concrete mixture and a detailed plan for mixing, transporting, placing, protecting, curing and testing of concrete. Precautions must be made to avoid thermal cracking or deleterious effects to the concrete due to high temperatures. Retempering is not allowed.

Use of established mathematical and empirical models will be required.

Evaporation retardant must be on hand and available for use as an emergency protection when the curing operation is delayed. Do not use evaporation retardant as a finishing aid. Evaporation retardant material and use must be addressed in the Contractor's evaporation and curing plan.

ON PAGE 301, 502.01.A - CLASSIFICATION

Delete the last sentence of Note (c) under Table 502.01-1 starting with "The alkali..."

ON PAGE 302, 502.01.A - CLASSIFICATION

In the first sentence of the last paragraph, delete "303" and replace with "380".

ON PAGE 306, 502.02 - MATERIALS

Add the following to the list of test methods:

ON PAGE 311, 502.03.D.10 - MIXING AND DELIVERY

Delete Item 10 and replace with the following:

- 10. Do not place concrete when the concrete temperature is below 50°F. Do not place concrete if the concrete temperature is greater than 80°F for bridge decks or when placing concrete where the least dimension is greater than 3.0 feet; otherwise, the concrete temperature must not exceed 85°F. The concrete temperature must not exceed 85°F at the time of placement for precast members. Refer to 502.03.F.4 for temperature limitations with massive placements. When placing flatwork, do not place concrete when the evaporation rate is greater than 0.15 pounds per square foot per hour when tested in accordance with Idaho IT 133. Submit for acceptance an evaporation and curing plan as described in 409.03.M if the concrete temperatures are anticipated to approach the temperature limitations specified or if the evaporation and curing plan when appropriate based on the actual concrete temperature and evaporation rates. Admixtures can be used to extend delivery times and revolutions if noted in the mix design with the approval of the Engineer. Night or early morning placement may be necessary to avoid excess evaporation. Ice used as part of the mixing water must be completely melted by the time the mixing is completed.
- 11. Do not place concrete against any surface with a temperature less than 32°F or greater than 90°F.

ON PAGE 312 AND 313, 502.03.E.3.a(6) - FALSEWORK AND FORMS

Delete item (6), including the "Note", and replace with the following:

(6) For applying the lateral pressure formulas, columns are defined as elements with no plan dimension exceeding 6.5 feet. Walls are defined as vertical elements with at least 1 plan dimension greater than 6.5 feet.

ON PAGE 317 AND 318, 502.03.E.5 - REMOVAL OF FALSEWORK AND FORMS

Correct formatting for Table 502.03-5.

Part 1: Removal of Forms and Falsework Structural Element	Minimum Days ^{(a) (b) (f)}	Percent of Design Strength ^(e)	
Side forms for: footings, abutment caps, pier caps, traffic and pedestrian barriers, end diaphragms, intermediate diaphragms, sleeper beams, moment slabs, and other side forms not supporting the concrete mass	1	_	
Columns, abutment backwalls, and retaining walls	3	50	
Cantilever bridge deck sidewalks	7	_	
Bridge decks, top slabs of concrete box culverts or stifflegs $^{(c)}$	10	80	
Crossbeams, caps, box girders, T-beam Girders, and flat slab superstructures $^{\rm (c)}$	7	80	
Signal, Luminaire, and Sign Support Foundations	7	80	
Part 2: Subsequent Loading ^(d) of Structural Element	Minimum Days ^{(a) (f)}	Percent of Design Strength ^(e)	
Footings and abutments	3	80	
Approach slabs, sleeper beams, moment slabs, and bottom slabs of box girders with falsework in place	5	80	
Columns and walls	5	100	
Bridge decks, top slabs of concrete box culverts or stifflegs and other members	10	100	
Signal, Luminaire, and Sign Support Foundations	7	100	
Erecting girders on pier caps	7	100	
(a) From the time of the last placement in the forms or falsework supports and excluding the days when the surrounding temperature is			

below 40°F for a total of 4 hours or more. Requirements in 502.03.G still apply. The Contractor will monitor the temperature during curing time by continuous recording thermometers.

(b) Do not remove forms until the concrete has sufficient strength to prevent damage to the surface or cause over stressing of the concrete.

(c) Where continuous spans are involved, the time for spans will be determined by the last concrete placed.

(d) Except loads from formwork and reinforcing steel of further concrete placements.

(e) Standard concrete mix designs may not achieve strength in the minimum days shown.

(f) 1 day is 24 hours.

ON PAGE 322, 502.03.G.1 - COLD WEATHER CONCRETING

Delete items b and c, and renumber the remaining items in alphabetical order.

ON PAGE 323, 502.03.H - HOT WEATHER CONCRETING

Delete the first sentence of the first paragraph and replace with:

Submit for acceptance an evaporation and curing plan as described in 409.03.M.2 if the concrete temperatures are anticipated to approach the temperature limitations specified or if the evaporation rate is anticipated to approach 0.15 pounds per square foot per hour for flatwork.

ON PAGE 329, 502.05.6 - SURFACE RESISTIVITY PRICE ADJUSTMENT

Delete the first full sentence and replace with the following:

The Department will pay the price adjustment to the contract unit price for each lot of Schedule No. 2 concrete meeting the surface resistivity requirements in Table 502.05-2 when measured using AASHTO T 358 at 28 calendar days.

Change the number of the table to: "502.05-2"

ON PAGE 330, 503.03.B - PROTECTION OF MATERIAL

Remove the 4th sentence and replace with the following:

Do not flame cut reinforcing steel.

Prevent condensation from forming on the bars. Store and cover epoxy-coated metal reinforcement off the ground to protect them from sunlight, salt spray, and weather exposure. Do not drag or drop epoxy-coated reinforcing steel. Repair coating cracks, abrasions, chips, and bond loss before oxidation appears on the bar surface.

ON PAGE 331, 503.03.D - PLACING AND FASTENING

Add the following after the fifth sentence of the 1st paragraph:

Locate supports at least 1.5 times the maximum aggregate size or 2 inches, whichever is greater, from formed corners to allow for concrete consolidation around the supports.

ON PAGE 333, 503.03.E - SPLICES

Replace the first sentence of the first full paragraph with the following:

Make one tension test specimen splice to represent each lot of bars spliced at the project site and submit to a qualified lab for testing. Submit test results to the Engineer before installation.

ON PAGE 346, 504.03.M.2 - PREHEATING

Delete ", Section 4" from the sentence.

ON PAGE 347, 504.03.M.3 - WELDING PROCEDURES

Delete ", Sections 5.7 and 5.12" from the last sentence of the first paragraph.

ON PAGE 347, 504.03.M.4 - FILLERS

Delete "Table 4.2" from the sentence.

ON PAGE 348, 504.03.M.6.b - RADIOGRAPHIC INSPECTION

Add the following to the end of the paragraph:

Provide an inspection report in digital format that includes a full set of radiographic digital images per AWS D1.5 Ch 8.12.3.

ON PAGE 352, 505.03.B - HELMET ASSEMBLY

Delete the 3rd sentence and replace with the following:

Provide a pile hammer helmet assembly (strike plate, hammer cushion, drive cap base, and pile insert or pile adapter) that is approved by the pile hammer manufacturer and sized for the pile hammer. Field fabricated pile hammer components are not acceptable.

ON PAGE 357, 505.05 - BASIS OF PAYMENT

Delete the second paragraph of Section 505.05 and replace it with the following:

Splice steel pile before driving: the Department will pay for up to 1 splice per pile if the estimated pile lengths are 60 feet or longer. Splice steel pile during driving: the Department will pay for up to 1 splice per pile for estimated pile lengths from 60 up to 100 feet and up to 2 splices per pile for estimated pile lengths that are greater than 100 feet.

ON PAGE 373 AND 374, TABLE 510.02-2 - LATEX-MODIFIED CONCRETE PROPERTIES

Modify the formatting of Table 510.02-2 as follows:

Table 510.02-2 -	Latex-Modified	Concrete	Properties
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Mix Design Item	Requirement	
Cement content	660 lb/yd ³	
Latex emulsion admixture	25 gal/yd ³	
Approx. added water ^(a) , including free moisture in the FA & CA	150 lb/yd ³	
Air content, percent of plastic mix	0 - 6.5	
Slump ^(b)	4 - 6 in	
Percent fine aggregate as percent of total aggregate by weight (rounded CA)	55 ± 5	
Percent fine aggregate as percent of total aggregate by weight (crushed CA)	60 ± 5	
Weight ratio of cement-FA-CA- (rounded CA) ^(c)	1:2.5:2.0 dry basis	
Weight ratio of cement-FA-CA- (crushed CA) ^(c)	1:2.7:1.8 dry basis	
28-day compressive strength (Minimum)	4,000 psi	
(a) This is in addition to the latex. Adjust the water added to control the slump and to produce net water-cement ratios of 0.35 to 0.40 by weight.		

(b) Measure the slump 4 to 5 minutes after discharge from the mixer or immediately ahead of the finisher.

(c) The Contractor may adjust the dry-weight ratios within limits as approved. The Contractor may increase the FA ratio by as much as 0.2 if the CA is reduced by an equivalent amount.

ON PAGE 373, TABLE 510.02-2 - LATEX-MODIFIED CONCRETE PROPERTIES

Delete "Cement Content" and replace with "Cementitious Content (Cement + SCM)".

ON PAGE 374, TABLE 510.02-3 - SILICA FUME CONCRETE PROPERTIES

Delete "Cement Content" and replace with "Cementitious Content (Cement + SCM)".

Delete "Course" from "Course Aggregates" and replace with "Coarse".

ON PAGE 377, 510.03.E - PLACING AND FINISHING

Add the following to the end of the first paragraph:

Remove any plastic sheeting prior to placement of bonding coat.

Delete "visqueen" from the first paragraph and replace with "plastic sheeting".

ON PAGE 381, 511.01.B.3 - SUBMITTALS

Add the following after item "f":

g. Submit a quality control plan for acceptance.

ON PAGE 384, 511.03.A - SURFACE PREPARATION

Delete the second paragraph and replace with:

For structure rehabilitation, remove foreign materials from the concrete surface before applying waterproofing system. Repairs and patches must be fully cured before applying waterproofing. Prepare the surface according to an accepted quality control plan.

ON PAGE 384, 511.03.B.1 - TYPE C APPLICATION OF PENETRATING WATER REPELLENT SYSTEM

Delete the word "sandblasted" from the third sentence of the first paragraph and replace with "prepared".

ON PAGE 389, 511.04 - METHOD OF MEASUREMENT

Replace the first sentence with the following:

The Engineer will measure acceptably completed work by the square yard based on plan quantity.

ON PAGE 400, TABLE 522.02-1 - CDF MIXTURE PROPERTIES

Delete Table 522.02-1 and replace with the following:

	Min. Cement Content (LB/CY)	Fly Ash (Class F) or Slag Content (LB/CY)	Max Water to Cementitious Ratio	Fine Aggregate (SSD) (LB/CY)	Coarse Aggregate (SSD) (LB/CY)	Slump⁴ (inch)	Air ⁴ Content (%)
Flowable Fill	50	0-260	2.0	1300-3000	0-2500 ²	6-8	0-15
Low Flowability Fill	100		4.0	1300-2000	1300-1900 ³	0-2	0-5
NL.L.							

Notes:

1. Refer to ACI 229R for guidance.

2. 3/8 inch to No. 4 according to ASTM C33, or pea gravel.

3. ¾ inch according to ASTM C33.

4. Provided for guidance.

ON PAGE 426 AND 427, TABLE 565.02-1 - EXPANSION JOINT BINDER MATERIAL

Modify the formatting of Table 565.02-1 as follows:

Parameter	Test Method	Requirements		
Softening Point	ASTM D36	179.6°F (82°C) minimum		
Tensile Adhesion	ASTM D5329	700 % minimum		
Ductility @ 77°F (25°C)	ASTM D113	40 cm minimum		
Penetration:				
@ 77°F (25 °C), 150g, 5 sec	ASTM D5329	90 dmm maximum		
@ -4°F (-18 °C), 200g, 60 sec	ASTM D5329	10 dmm minimum		
Flow 5 h @ 140°F (60°C), 150g, 5 sec	ASTM D5329	3.0 mm maximum		
Resiliency 77°F (25°C)	ASTM D5329	40% minimum		
Asphalt Compatibility	ASTM D5329	Pass		
Recommended Pouring Temperature	—	370°F – 390.2°F (188 – 199°C)		
Specific Gravity	_	1.10 plus or minus 0.05		

Table 565.02-1 – Expansion Joint Binder Material

ON PAGE 439, 576.02.A - SUBMITTALS

Delete the following sentence:

Provide certifications bearing the notarized signature of a manufacturer's representative having quality control responsibility.

ON PAGE 446, 578.03 - CONSTRUCTION REQUIREMENTS

Delete the last sentence of the second paragraph and replace with:

Provide box culvert dimensional tolerances in accordance with ASTM C1577, Section 12. Provide three-sided frame dimensional tolerances in accordance with ASTM C1504, Section 11.

ON PAGE 455, 582.03 - CONSTRUCTION REQUIREMENTS

Replace A through D with the following:

A. Preparation of Concrete Surfaces.

Mark out and score removal areas to a depth of ½-inch with a dry concrete saw to form faces perpendicular to the surface. Angle the sawcut or adjust the sawcut depth as needed to avoid penetrating other bridge elements or damaging existing metal reinforcement.

Remove unsound concrete using jackhammers with a nominal rating of 15 pounds or less and held at an angle of 45° or less from the concrete surface. Do not remove concrete within ½-inch of girder bearing systems, including neoprene pads or lead plates, between the bearing seat and 4 inches above the bottom of abutment and pier caps. Notify the Engineer if unsound concrete is found within ½-inch of the girder bearing system. If any reinforcement is or becomes exposed during the removal and the bond between concrete and reinforcement is destroyed, remove deteriorated, loose, or unsound concrete to a minimum depth of ¾-inch behind the bar or to the depth of sound concrete, whichever is greater. Exercise care to prevent additional damage or debonding of metal reinforcement in adjacent concrete areas.

After concrete removal, sandblast the cavity and the surrounding concrete area to remove dirt, oil, grease, paint, corrosion deposits, dust, laitance, and bond inhibiting materials. Prepare the cavity using mechanical scarification or additional sandblasting to provide a minimum surface profile of $\pm \frac{1}{8}$ -inch.

Protect property and traffic from damage and flying debris during concrete removal and sandblasting operations.

B. Existing Reinforcing Steel.

Repair or replace damaged (cracked, broken, gouged, or deteriorated) metal reinforcement where the effective bar area is less than 75 percent of the original bar diameter. Properly embed or splice replacement of supplemental bars as directed.

Clean exposed reinforcing steel to remove dirt, oil, grease, paint, corrosion deposits, dust, laitance, and bond-inhibiting materials immediately prior to patch material placement. Protect cleaned metal reinforcement from the elements and from contamination.

C. Inspection.

Prior to mortar placement, allow the Engineer to inspect concrete areas after final surface preparation has been completed for approval. After allowing the mortar to set in accordance with the manufacturer's recommendations, sound the repaired areas with a sounding bar or hammer. The Engineer must be present during the sounding inspection. Remove and replace any unsound patches at no additional cost to the Department.

D. Finish.

Place mortar for each repair area in a single continuous pour or as directed. Match the texture of the existing surface and ensure the finished surface is flush with the existing surface. Immediately after removing forms, remove any excess mortar that has accumulated over an intended joint.

ON PAGE 473, 601.02 - MATERIALS

Add the following after "Ribbed Polyvinyl Chloride (PVC) Pipe":

Corrugated PE Pipe	706.16
Ribbed PE Pipe	706.17

Add the abbreviation "(PP)" after "Polypropylene Pipe".

ON PAGE 475, 601.03.D - PLASTIC PIPE

Delete the fourth paragraph and replace with the following;

Test PE lines for leakage in accordance with ASTM F2164. No leakage rate is allowed. Test PP lines for leakage in accordance with ASTM F2487. No leakage rate is allowed.

ON PAGE 509, 619.02 - MATERIALS

Delete the following section references and replace with those listed below:

LED Luminaires	
Rigid Steel Conduit	
Plastic Conduit	
Concrete Junction Boxes	
Composite Junction Boxes	713.11
Electrical Conductors	713.11

ON PAGE 529, 626.02.A - TEMPORARY TRAFFIC CONTROL SIGNS

Add the following to the end of the section:

Do not use double-sided signs.

ON PAGE 540, 627.03.C.1 - SURFACE PREPARATION

Delete "3.2.9" from the first paragraph and replace with "5.2.9".

ON PAGE 549, 630.05 - BASIS OF PAYMENT

Add the following to the end of the section:

Preparation of pavement surface before pavement marking application is incidental.

ON PAGE 553, 632.05 - BASIS OF PAYMENT

Add the following to the end of the section:

Debris containment, water treatment, disposal, cleanup, submittals, and other related work are incidental.

ON PAGE 619, 702.03 - EMULSIFIED ASPHALTS

Delete Items 1 and 2 and replace with:

1. Standard Specification for Emulsified Asphalt AASHTO M 140

For SS-1 and SS-1h, provide Rotational Paddle Viscosity measurements @ 25 °C for information only. Report the test results on or with the Bill of Lading in addition to Saybolt Viscosity results.

2. Standard Specification for Cationic Emulsified Asphalt AASHTO M 208

For CSS-1 and CSS-1h, provide Rotational Paddle Viscosity measurements @ 25 °C for information only. Report the test results on or with the Bill of Lading in addition to Saybolt Viscosity results.

ON PAGE 628, 703.02.D - COMBINED AGGREGATE GRADATION FOR CONCRETE

In the last sentence of the first paragraph, delete "Method B.:" and replace with "Method A or B."

ON PAGE 632, 703.05 - AGGREGATE FOR SUPERPAVE HMA PAVEMENT

In Table 703.05-1, Superpave Mixture Requirements, delete the row with "R-Value".

ON PAGE 636, 703.08 - AGGREGATE FOR OPEN GRADED BASE

Delete the first sentence of the first paragraph and replace with the following:

Meet aggregate gradation requirements specified in Table 703.08-1 in accordance with AASHTO T 27 for Class I and II, T 27/ T 11 for Class III.

ON PAGE 637, 703.08 - AGGREGATE FOR OPEN GRADED BASE

Delete the following from the last line of Table 703.08-2 under Fracture Face: 90% retained on #4 with 2 fractured faces for Class II

ON PAGE 643, 704.05 - SILICONE SEALANT

In the 2nd full paragraph, delete the 3rd sentence starting with "Do not place..."

ON PAGES 644 AND 645, TABLE 704.06-1 - ELASTOMERIC REQUIREMENTS

Delete Table 704.06-1 and replace with the following:

Table 704.06-1 – Elastometric Requirements			
Physical Property	Test Method	Performance Requirements	
Hardness, Durometer A	ASTM D2240	60 ± 10 points	
Tensile strength	ASTM D412	2,000 psi, minimum	
Elongation at break	ASTM D412	300%, minimum	
Brittleness temperature	ASTM D746	- 40°F (- 40°C)	
Tear resistance	ASTM D624 (Die C)	150 lb/in minimum	
Flame resistance	ASTM C542	must not propagate flame	
Resistance to heat aging change in original properties after 70 hr at 212°F (100°C) Hardness	ASTM D573	+ 10 points, maximum	
Elongation	ASTM D573	- 40%, maximum	
Tensile strength	ASTM D573	- 15%, maximum	
Resistance to oil aging change in volume after 70 hr immersion in ASTM oil No. 3 at 212°F (100°C)	ASTM D471	+ 80%, maximum	
Resistance to ozone condition after exposure to 100 pphm ozone in air for 100 hr at 100°F (38°C) (sample under 20 percent strain)	ASTM D1149	No cracks	
Resistance to permanent set compression set after 22 hours at 158°F (70°C)	ASTM D395 (Method B)	30%, maximum	
Resistance to water change in weight after 7 days immersion at 158°F (70°C)	ASTM D471	+ 5%, maximum	

Table 704.06-1 – Elastomeric Requirements

ON PAGE 650, 706.18 - STEEL REINFORCED RIBBED PE PIPE

Replace the paragraph with the following:

Meet AASHTO M 335 for SRRPE Pipe nominal size of 12 to 60 inches in diameter. Meet AASHTO MP 40 for SRRPE Pipe nominal size of 66 to 120 inches in diameter. Limit size of SRRPE to 120 inches maximum diameter.

ON PAGE 657, 708.06.1 - 9.2.2

Delete "3.2.3" from the first paragraph and replace with "5.2.3".

ON PAGE 671, 709.04 - SET RETARDING ADMIXTURE

Delete Section 709.04 and replace with the following:

709.04 Chemical Admixtures – Types A-G, and Type S

A. Types A through G.

Meet ASTM C494.

B. Type S

Type S admixtures must be approved by the Engineer prior to use. Provide data sheets and describe intended use and dosage. Provide a letter from manufacturer stating that it will not adversely impact the concrete and describe any limitations.

Delete Section 709.05 and renumber 709.06 to 709.05.

ON PAGE 688, 713.01.A.3 - PEDESTRIAN SIGNAL POLE REQUIREMENTS

Delete item "a" and replace with the following:

a. A 4-inch schedule 40 or 80 aluminum pole.

ON PAGE 689, 713.04.A - ILLUMINATION POLES

Delete "Error! References source not found" in the first full paragraph and replace with the "708.19".