

New Amendments to the 2006 Standard Specifications Effective August 6, 2007

Please note: New Amendments to the Standard Specifications are described below. Previous Amendments that are not revised in this package are still in effect. Amendments to the Standard Specifications take precedence over the Standard Specifications in accordance with Section 1-04.2.

The following list is a brief description of the latest revisions, with an explanation of why each change was made. The actual provisions should be reviewed in depth to become completely knowledgeable of the full extent of the revisions. These provisions are available at the following location: <http://www.wsdot.wa.gov/eesc/design/projectdev/>

DIVISION 1 – GENERAL REQUIREMENTS

Section 1-01.3 Definitions

This change addresses plantings, and clarifies when the Project Engineer may establish that the project is Substantially Complete. It is required due to confusion about how to administer contract time when the contract contains plant establishment. Additional Construction Manual guidance is being developed.

Section 1-06.5 Owners Manuals and Operating Instructions

The change is made because the contract does not require these to be submitted for all work. There is one reference to providing manuals in Section 8-03.3(10) for irrigation systems, and none elsewhere.

Section 1-07.11(10)B Required Records and Retention

The requirements to submit Monthly Employment Utilization Reports (MEUR's) are deleted. WSDOT OEO External Civil Rights originally requested submittal of the Reports so that they would have information in advance of their nondiscrimination compliance audits. Because the OEO is not actually using this data during the life of the contract, they have decided that requiring that the Contractor maintain this data in the event of an audit is preferred over submitting it to them.

Section 1-08.5 Time for Completion

This change deletes the form FHWA 47 from the list of required documents to be submitted to establish the completion date. For several years, State Transportation Agencies have commented to FHWA that the reports generated from the data collection efforts were of little utility and that there were statistical limitations, statistical significance, and accuracy issues with the data which were felt could result in misleading information. There was also a noted reporting burden on States and contractors. The suggestions have often been to eliminate the reporting requirements all together, and FHWA has decided to implement this suggestion. The main reasons for this decision are the strong disinterest in the data collection activities and comments provided to FHWA by their partners suggesting that they are not collecting the data extensively enough to be of utility.

Note: The requirement to submit form FHWA 47 has also been deleted from the Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273).

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Section 1-08.9 Liquidated Damages

This change makes reference to plantings, and clarifies when the Project Engineer may establish that the project is Substantially Complete. It is required due to confusion by some project managers about how to administer contract time when the contract contains plant establishment.

Section 1-09.2(1) General Requirements for Weighing Equipment

This change clarifies the point of delivery for weighed materials. This change is necessary because of difficulties WSDOT has experienced with weight tickets becoming disassociated with materials being hauled to temporary stockpiles prior to installation.

Section 1-09.6 Force Account

The AGC/WSDOT Equipment Rental Agreement has been modified to remove the prohibition for insurance against damage (a.k.a. "damage waiver") as a reimbursable cost. Accordingly, this section is revised to clarify that force account markups for insurance mean the insurance required by Sections 1-07.10 and 1-07.18.

Section 1-10.1(1) Materials

This section is supplemented with new materials for Tall Channelizing Devices and Temporary Signal systems.

Section 1-10.2(3) Conformance to Established Standards

This specification is revised due to a name change of the referenced publication for work zone devices, and to update the implementation schedule for crash worthiness for Category 4 devices.

Section 1-10.3(3)K Portable Temporary Traffic Control Signal

New specifications for temporary signals are added. This work has been included by special provision in past contracts.

Section 1-10.4(2) Item Bids with Lump sum for Incidentals

The measurement of Other Traffic Control Labor has been clarified by relocating the description for Patrolling and Maintaining. Temporary Signal Systems have been added to this section.

Section 1-10.5(2) Item Bid with Lump Sum for Incidentals

This section is supplemented with a new bid item for Portable Temporary Traffic Control Signal.

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DIVISION 5 – SURFACE TREATMENTS AND PAVEMENTS

Section 5-02 Bituminous Surface Treatments

This is a complete rewrite of Section 5-02. This revision is a product of the State Materials Lab in cooperation with Region Materials experts, Region Construction Trainers, the University of Washington, and Industry. These changes are needed because this section of the contract has not undergone a major overhaul since 1988. Even with the 1988 revisions, this section has changed very little in the past 40 years. With the increased size of the WSDOT Construction Program and a constrained budget, BST construction is on the increase. This has caused us to take a closer look at updating this section for future application. A few of the significant changes include: cutback asphalts are eliminated in favor of more environmental conscious asphalt emulsions; BST Class A, B, and C nomenclature is abandoned in favor of terms that are more universal; payment provisions are enhanced with detailed descriptions of what is included in the unit price of each item.

Section 5-05.3(7)B Stationary Side Form Construction

This specification was updated to remove requirements for base width on metal forms, which was believed to be required when the old header board machines put weight on the forms, and since they are no longer used this requirement was removed. Also, the metal forms requirement was revised to allow other forms materials to be used as approved by the project engineer, and this will help address curves in concrete in areas such as roundabouts or other areas where other form materials will work.

Section 5-05.3(10) Tie Bars and Dowel Bars

This specification was revised to clarify that dowel bars with drilled holes are required when placing new PCCP against pre-project existing PCCP.

Section 5-05.3(19) Reinforced Concrete Bridge Approach Slabs

These changes move Bridge Approach Slabs out of Section 5-05 Cement Concrete Pavement and into Section 6-02 Concrete Structures. This change is made to better align the type of work, reinforced concrete, with the type of concrete work being performed. This work is considered to be more like structural concrete than concrete paving, and the work is typically not done by the PCCP contractors. This is one of several modifications made to relocate bridge approach slabs from Section 5-05 to Section 6-02.

Section 5-05.4 Measurement

Reinforced Concrete Bridge Approach Slabs are moved to Section 6-02.4. also, the specifications were changed to break out the payment for dowel bars as a separate item, which will make it easier to deal with changes in PCCP jointing.

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Section 5-05.5 Payment

Reinforced Concrete Bridge Approach Slabs are moved to Section 6-02.5. The payment section that makes dowel bars incidental to the PCCP is deleted from the standard specifications and will be moved to a GSP as there are cases where it is still appropriate. Also, the payment statement for Epoxy-Coated Tie Bar with Drill Hole per each is enhanced with a note clarifying that drilling is incidental to the bid item.

Section 5-05.5(1) Pavement Thickness

The change clarifies when additional cores may be requested by the contractor.

Section 5-05.5(1)A Thickness Deficiency of 0.05 Foot or Less

The change clarifies how the average thickness is determined.

DIVISION 6 – STRUCTURES

Section 6-02.1 Description

This provision is revised to include Bridge Approach Slabs. This is one of several modifications made to relocate bridge approach slabs from Section 5-05 to Section 6-02. This change is made to better align the type of work, reinforced concrete, with the type of concrete work being performed. This work is considered to be more like structural concrete than concrete paving, and the work is typically not done by the PCCP contractors.

Section 6-02.3(1) Classification of Structural Concrete

This Amendment creates a new class of concrete, Class 4000A for bridge Approach slab applications. This allows the other information in Section 6-02, such as air content, minimum cement content, curing, weather protection, etc., to apply to the Class 4000A concrete without repeating information. This is one of several modifications made to relocate bridge approach slabs from Section 5-05 to Section 6-02.

Section 6-02.3(2)A Contractor Mix Design

This Amendment specifies the nominal maximum aggregate size for a new class of concrete, Class 4000A for bridge Approach slab applications. This is one of several modifications made to relocate bridge approach slabs from Section 5-05 to Section 6-02.

Section 6-02.3(5)B Certification of Compliance

This revision is needed because GSP 02305B1.GB6 has been applied incorrectly. The GSP is written to be applied only to projects containing Structural concrete, but the combined aggregate gradation actually may be used on any concrete (not just structural concrete). Therefore, the text of the GSP is written into the Standard Specs and the GSP is deleted.

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Section 6-02.3(6)A Weather and Temperature Limits to Protect Concrete

This section is revised to include the current concrete evaporation rates recommended by the American Concrete Institute (ACI).

Section 6-02.3(6)D Protection Against Vibration

This section is revised to delete the exception for pile driving equipment in the requirements for Protection Against Vibration. Pile driving equipment was identified as Class H (High Vibration) in the August 2006 Amendment to this section, but the exception for pile driving equipment was overlooked.

Section 6-02.3(10) Roadway Slabs and Bridge Approach Slabs

These changes move Bridge Approach Slabs out of Section 5-05 Cement Concrete Pavement and into Section 6-02 Concrete Structures. This change is made to better align the type of work, reinforced concrete, with the type of concrete work being performed. This work is considered to be more like structural concrete than concrete paving, and the work is typically not done by the PCCP contractors. This is one of several modifications made to relocate bridge approach slabs from Section 5-05 to Section 6-02.

Section 6-02.3(11) Curing Concrete

Added stand alone curing requirement for 4000A concrete that requires two coats of curing compound and 10 days of wet cure. The 10 days of curing matches up with recommendation of ACI 308 Guide to Curing Concrete for Type II cement, and wet cure was chosen to ensure better curing than just covering with plastic sheeting. This is one of several modifications made to relocate bridge approach slabs from Section 5-05 to Section 6-02.

Section 6-02.3(25) Prestressed Concrete Girders

Girder designations and other terminology is revised throughout for more consistency. The submittal of girder shape revisions under Section 6-02.3(25)A is revised for more general application. Blockout placement requirements for falsework hangers are simplified in Section 6-02.3(25)B. The intent of girder camber information as shown in the Plans is clarified in Section 6-02.3(25)K. Girder handling, storage, and shipping requirements in Sections 6-02.3(25)L and 6-02.3(25)M are significantly revised to be consistent with related updates to the standard girder details. The submittal of bulb tee girder equalization methods during erection is simplified.

Section 6-02.3(26)A Shop Drawings

This change corrects an incorrect specification reference left over from the 2002 revision of this Section.

Section 6-02.3(28)F Tolerances

Currently, Section 6-02.3(28)F references a 1985 edition of a Precast/Prestressed Concrete Institute manual for tolerances in fabrication of precast concrete panels. This 1985 edition has since been superseded by a 1999 edition. Rather than specify a specific year, it has been suggested to reference the "latest edition."

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Section 6-02.4 Measurement

Bridge Approach Slab measurement is added. This is one of several modifications made to relocate bridge approach slabs from Section 5-05 to Section 6-02.

Section 6-02.5 Payment

An item for Bridge Approach Slab is added. This is one of several modifications made to relocate bridge approach slabs from Section 5-05 to Section 6-02.

Section 6-03.3(14) Edge Finishing

This section is revised to better define what is acceptable for the chamfering or rounding of corners along exposed sheared or cut edges.

Section 6-03.3(15) Planing of Bearing Surfaces

This section is revised to allow a fit tolerance for base plates and sole plates.

Section 6-03.3(25)A Welding Inspection

Section 6-03.3(25)A is revised to include a reference to the new definition for "signal standards" under Section 9-29.6. In recent years, "signal standards", as shown in the Standard Plans and defined in the GSP's for pre-approved fabrication plans, have been expanded to include many different types of poles beyond the conventional pole and mast arm arrangement.

Section 6-03.3(28)A Method of Shop Assembly

This section is revised to allow the Engineer to approve a simplification of the progressive truss or girder assembly methods for subsequent stages after a successful stage 1 assembly.

Section 6-05.3(11)H Pile Driving From or Near Adjacent Structures

The format of this revision is changed to clarify that the second paragraph is revised in its entirety, including the table and the formula.

Section 6-09.3(3)A Concrete Overlay Mixes

Currently, the third paragraph of Section 6-09.3(3)A requires that the fly ash supplier, or microsilica supplier, make recommendations as to how water reducing and superplasticizer admixtures are used for fly ash modified concrete or microsilica modified concrete, respectively. The revision to Section 6-09.3(3)A places this responsibility on the admixture manufacturer.

Section 6-13.2 Materials

The reference to Section 9-03.12(2) for gravel backfill is deleted. This reference is incorrect and inappropriate for structural earth walls. The current GSP for each of the three types of structural earth wall already specify the requirements for gravel borrow required for structural earth wall backfill. No other standard specification is necessary.

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Section 6-17.3(7) Installing Permanent Ground Anchors

The revision to this section are made to ensure that the permanent ground anchor tendons are centered within the bearing plate and trumpet at the anchorage upon application of the alignment load. This is to prevent the reoccurrence of a situation in a recent project where the permanent ground anchors were installed eccentric to the geometry of the anchorage.

Section 6-18.3(3) Testing

This revision reduces the size of the shotcrete test panels for pre-production evaluation of shotcrete quality and strength, and for daily production testing. The reduction from 36" x 36" to a test panel that is 12" x 12" still provides a panel is adequate for WSDOT quality assurance purposes.

Section 6-18.3(7) Shotcrete Application

This revision changes the curing requirements of the finished shotcrete facing. Two coats of curing compound will now be required for both temporary and permanent shotcrete facing, without the need for removal of the curing compound from the shotcrete surface after curing. When the shotcrete facing is the finished surface, the specifications now engage the requirements of Section 6-02.3(11) for additional curing requirements.

DIVISION 8 – MISCELLANEOUS CONSTRUCTION

Section 8-01.3(9)A Silt Fence

The change reinstates the strength requirements for silt fence backing materials. These requirements used to be a part of these specifications, but were lost during publication of the 2002 Standard Specifications. Additionally, the requirements for silt fence geotextile are clarified and an erroneous section reference to Maintenance of BMP's is corrected.

Section 8-01.4 Measurement

Soil Binder or Tacking Agent has been added. This was removed during publication by of the 2006 specifications, but should not have been.

Section 8-01.5 Payment

Items were added for "Seeding and mulching" and "Soil Binder or Tacking Agent." These items were incorrectly removed during publication of the 2006 specifications.

Section 8-02.3(12) Completion of Initial Planting

The evaluation of plant health at May 31 is deleted from the requirements for determining Completion of Initial Planting. The existing requirement that plants be "healthy and growing on May 31" in order to establish Completion of Initial Planting had the inadvertent affect of prolonging the first year plant establishment period. This shifted an inappropriate amount of risk to the Contractor by making them responsible for the plants for a longer period of time if planting is required to be performed early in the planting window (October 1 to March 1 for non-irrigated areas) in order to complete the contract in the specified number of working days.

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Section 8-02.3(13) Plant Establishment

the existing obligations during plant establishment were written as performance specs, but they do not work well for all applications. They are rewritten to allow the Engineer to direct the contractors operations (I know this is contrary to our normal practice, but appropriate in this specific kind of work).

Section 8-02.3(14) Plant Replacement

Revised to require that replacement plants shall be inspected prior to installation, and enhances the requirements for replacement plant quality.

Section 8-02.4 Measurement

Enhanced the measurement of many items to specify measurement along the slope, instead of measured as a horizontal distance.

Section 8-02.5 Payment

This revision enhances the payment statement for PSIFE to describe additional items that are included in the unit price. Also revises the payment schedule during the plant establishment period to provide earlier payment.

Section 8-22.4 Measurement

The reference to "Inlaid Plastic Line" is deleted. This is an emerging specification that is still under development, and these requirements were premature.

Section 8-22.5 Payment

The reference to "Inlaid Plastic Line" is deleted. This is an emerging specification that is still under development, and these requirements were premature.

DIVISION 9 - MATERIALS

Section 9-01.3 Tests and Acceptance

The change incorporates the requirements of WSDOT Standard Practice QC 1, Standard Practice for Cement Producers That Certify Portland Cement, into the contract.

Section 9-02.1(2) Medium Curing (MC) Liquid Asphalt

Cutback asphalts (MC and RC) are deleted from the WSDOT Standard Specifications because we do not use them any longer.

Section 9-02.1(3) Rapid Curing (RC) Liquid Asphalt

Cutback asphalts (MC and RC) are deleted from the WSDOT Standard Specifications because we do not use them any longer.

Section 9-02.1(9) Coal Tar Pitch Emulsion, Cationic Asphalt Emulsion Blend Sealer

This section is revised to require coal tar blends rather than 100 percent coal tar emulsion. Coal tar blends consist of 80 percent asphalt emulsion and 20 percent coal tar.

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Section 9-03.1(1) General Requirements

The changes are required to implement the new ASTM test for Alkali Silica Reactivity mitigation. In addition, this section is modified to add requirements limiting the Degradation Factor, and to apply LA Wear requirements to all concrete aggregate instead of just the coarse aggregate.

Section 9-03.1(4)B Wear in Los Angeles Machine

Because LA Wear requirements are now applied to all concrete aggregates, this section pertaining to coarse aggregates is being deleted.

Section 9-03.1(4)C Grading

This change adds AASHTO Grading No. 4 to this Section. This is needed for concrete paving mixes where the producers mix No. 4 and No. 67 instead of having a single pile of No. 467.

Section 9-03.4(2) Grading and Quality

This section is revised to accompany the rewrite of section 5-02 Bituminous Surface Treatments. The gradation for Crushed Cover Stone is deleted, and a new gradation is added for 3/8" to US No. 4 sieve.

Section 9-03.11 Streambed Aggregates

The new material spec for Streambed Aggregates are needed in order to provide a material that is satisfactory for all stakeholders and addresses issues related to fish habitat, streambed stability and function. The existing GSP for Streambed Gravel did not satisfy every need, and so it is deleted.

Section 9-05.19 Corrugated Polyethylene Culvert Pipe

The change corrects an error in referring to the Certificate of Compliance as a "producers" certificate instead of a "manufacturers" certificate.

Section 9-05.20 Corrugated Polyethylene Storm Sewer Pipe

The change corrects an error in referring to the Certificate of Compliance as a "producers" certificate instead of a "manufacturers" certificate.

Section 9-07.5 Dowel Bars (For Cement Concrete Pavement)

The change requires dowel bars to be coated with purple epoxy coating instead of the traditional green epoxy coating.

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Section 9-28.14(3) Aluminum Structures

Requirements for welding of aluminum and steel sign structures and light and signal standards have long been referenced to specific sections in the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. This reference has been difficult to keep current due to AASHTO moving the location of the referenced section with each new edition. This reference has also been a rather circuitous method of specifying the code since all the AASHTO code does is make reference to the applicable AWS Welding Code. To simplify the welding code reference, the aluminum reference is now made directly to ANSI/AWS D1.2, latest edition, Structural Welding Code - the code for aluminum.

Section 9-29.6 Light and Signal Standards

Section 9-29.6 is revised to define what is covered by the terms "light standards" and "signal standards". In recent years, "signal standards", as shown in the Standard Plans and defined in the GSP's for pre-approved fabrication plans, have been expanded to include many different types of poles beyond the conventional pole and mast arm arrangement. This expansion beyond the conventional understanding has led to some confusion in application of standard specification requirements for fabrication of these poles.

Section 9-29.6(4) Welding

Requirements for welding of aluminum and steel sign structures and light and signal standards have long been referenced to specific sections in the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. This reference has been difficult to keep current due to AASHTO moving the location of the referenced section with each new edition. This reference has also been a rather circuitous method of specifying the code since all the AASHTO code does is make reference to the applicable AWS Welding Code. To simplify the welding code reference, the steel reference is now made directly to AWS D1.1/D1.1M, latest edition, Structural Welding Code - the code for steel.

Section 9-34.4 Glass Beads

This revision reformats the existing text for clarity. It also limits the amount of heavy metal elements that may be found in some glass beads, and adds the testing requirements for the silane coating.

Section 9-35 Temporary Traffic Control Materials

This section has been revised to bring these requirements up to current standards, and enhanced with new requirements for tall channelizing devices and portable signals.