

Spec Book Review -Major Themes

- Incorporate
 - Errata
 - FUSP's?
 - PASP's?
- What has caused issues?
- What can be improved upon, clarified?
- What is not in line with current practice?

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Division 7 Sections

- 701 Portland Cement Concrete for Structures 710 Waterproofing & Protective Covers
- 702 Mortar and Grout
- 703 Mortar and Concrete Patching, Repair, and Resurfacing Mixtures 713 Bridge Rehabilitation Steel
- 704 Steel Sheet Piling and Cofferdams
- 705 Foundation Piling
- 706 Structural Concrete Construction
- 707 Structural Steel Construction
- 708 Prestressed Concrete
- 709 Timber Structures

- 711 Bridge Railings
- 713 Bridge Rehabilitation Steel
- 714 Temporary Structures and Approaches
- 715 Cleaning and Coating Existing Structural Steel
- 716 Shop Cleaning and Coating Structural Steel
- 717 Downspouts and Drains
- 718 Drilled Shafts



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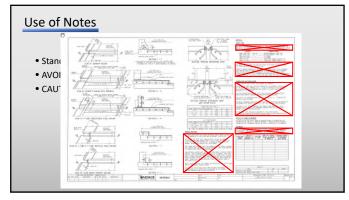
Frequently Used Special Provisions

- 705A PILE SPLICING
- 706A REINFORCEMENT, STAINLESS STEEL
- 706C HIGH PERF PCC BRIDGE DECK (GRADE DM)
- 706E HIGH PERF PCC PAVEMENT, BRIDGE APPROACH, REINFORCED (GRADE DM or P1M)
- 711C HIGH PERF PCC TEXTURED AESTHETIC BRIDGE
- RAILING (GRADE DM)
- 706G HIGH PERF PCC BRIDGE SUBSTRUCTURE (GRADE S2M)
- 711D HIGH PERF PCC BRIDGE RAILING (GRADE DM)
- 707B FRACTURE CRITICAL MEMBERS

- 707F STRUCTURAL STEEL CONSTRUCTION REVISIONS
- 708A STRAND DEBONDING
- 708B PRESTRESSED CONCRETE BULB-TEE BEAM
- 711A BRIDGE BARRIER RAILING, MODIFIED
- 711B TEXTURED CONCRETE AESTHETIC BRIDGE RAILING
- 711E BRIDGE RAILING REVISIONS
- 714A TEMPORARY STRUCTURES AND APPROACHES REVISIONS
- 716A SHOP CLEANING AND COATING STRUCTURAL STEEL REVISIONS

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Notable Changes – 704 Sheet Pile/Cofferdams

- Permanent Sheet Pile Installations Division 9 material requirements
- Cofferdams

 - 6' and greater PE required
 Tremie must design to tremie water height
- Field Welding AWS D1.1



Notable Changes – 705 Foundation Piling

- Definitions
- Test Pile/Ordering
- Redrive/Restrike



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Notable Changes – 706 Structural Concrete

- Conc Spec'd by Strength (e.g. 3500)
- High Performance conc (e.g. 3500HP)
- Expansion Joints most notes incorporated
- Falsework/forms no welding to bridge!
- SIP Forms must have Styrofoam
- No interruption of deck wet cure period
- Other concrete –3 days and 70%
- Night pours end 1 hour before sunrise
- Pour sequence changes require 7-day notice



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Notable Changes – 707 – Structural Steel	
Expanded applicability beyond bridge elements Consistency with 708	
Incorporated errata, FUSP, NSBA	
Re-ordered to follow typical fab process Fracture critical requirements incorporated	
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Notable Changes – 708 – Prestressed	
Notable Changes - 700 - Frestresseu	
Expanded applicability beyond bridge elements	
Consistency with 707	
Incorporated errata, FUSP, PCI Tighter tolerance on strand tensioning	
Revised specimen curing and testing	
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Notable Changes – 711 Bridge Railings	
Barrier replacement incorporated	
Anchor bolts for lights – install only Reworked pay items - consistent	
neworked pay items - consistent	

Notable Changes – 712 Bridge Rehab - Concrete

- Deck demo equipment size limited for steel beams
- If contractor damages PE for fix
- Overlay changes
 - No heavy equipment on hydro'd deck
 Scarify 1" from steel (must locate)

 - Must expose top reinf over 75% of test area
 - . No interruption of wet cure
 - Pour at night

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Notable Changes – 713 Bridge Rehab - Steel

- PE for pin plate damage
- Heat straightening spec incorporated (mostly)
- Temp support includes lateral bracing
- Prohibited pin & hanger damage when measuring



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Notable Changes – 713 Bridge Rehab - Steel

- Minor change to incorporate FUSP
- Major overhaul forthcoming

Notable Changes – 71	5/716 Clean 8	& Coat Steel
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- Field need 1' overlap of enclosure between stages
- Stenciling inside of fascia
- 716 Shop Painting deleted repeated info

Notable Changes – 718 Drilled Shafts

• We will now pay for reinforcement!

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Construction Manual

- False Decking
- Welding Requirements
- Field Measurements Reporting
- Hydrodemolition Calibration and Equipment
- Cofferdam Elevations and Dewatering Requirements
- And Many, Many, Many More





Division 7 Final Notes

- Retained FUSP's being updated
- Construction Wiki Update Fall 2020
- PASP's must be re-approved
- Minimize Non-standard notes
- Conc Curing = Additional Time