

Proposed Specification Revisions  
June/July 2016

The CAS Bureau is proposing revisions to 7 Standard Specifications. These proposed revisions will be out for comment during the months of June/July 2016.

- |                                  |                                      |
|----------------------------------|--------------------------------------|
| 1. 101/108 Contract Time         | Moved most info to 108, calendar day |
| 2. 108.03.2 Schedules            | minor changes and clarifications     |
| 3. 603.04.3 Granular Bedding     | Allow ¾ inch gradation               |
| 4. 608.02 DWDs                   | Delete ductile iron castings         |
| 5. 618.03.5 Traffic Control      | Traffic Control requirements         |
| 6. 707.01.1B Joint Sealant       | Low Mod                              |
| 7. 713.12 Rolled Erosion Control | Acceptance of Test Methods           |

**101.03 DEFINITIONS**

**FIXED COMPLETION DATE**

For Completion Date Contracts, the fixed calendar date that all work on the project is to be complete.

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**CONTRACT TIME**

The number of Working Days or Calendar Days allotted or the Fixed Completion Date for completing the contract, including authorized time extensions.

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**HOLIDAYS**

Legal holidays as defined in the State of Montana laws (Section 1-1-216 MCA)

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**NO WORK DAYS**

Days that work is prohibited under the contract.

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**WINTER PERIOD**

All days from November 16<sup>th</sup> through April 15<sup>th</sup>, inclusive.

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**WORKING DAY**

Any day that is charged against contract time in a Working Day contract.

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**108.07 CONTRACT TIME AND DETERMINATION OF COMPENSATION AND EXTENSION OF CONTRACT TIME FOR EXCUSABLE, NON-COMPENSABLE, AND COMPENSABLE DELAYS**

The contract provisions state the contract completion date or the allowable number of Calendar or Working Days allotted for completion of the contract work.

Suspension of work is authorized for the Winter Period. Do not resume work during an authorized suspension of work without approval from the Project Manager.

Do not work on Sundays and Holidays without written approval from the Engineer. Travelway maintenance in accordance with Subsection 104.05.2, stormwater BMP maintenance, and providing protection for the public are exempt work items and may be performed on No-Work Days without assessment of contract time.

**108.07.1 Completion Date Contracts**

Begin work on the effective date stated in the Notice to Proceed. Complete all work by the completion date specified in the contract.

The completion date will be extended for the following:

- A. Extensions of contract time added in accordance with Subsection 108.07.5; or
- B. Suspensions of work authorized after the contract is awarded; or
- C. Delays in the award of the contract.

The new completion date is determined by adding the Calendar Days granted under Subsection 108.07.5; the number of Calendar Days during authorized suspensions; or the number of Calendar Days the Award was delayed past the posted award date to the specified completion date, with equitable time adjustment for No-Work Days.

The actual completion date is the date the Project Manager approves the Contractor's Certificate of Work Complete form in accordance with Subsection 105.17.2.

Contract time overruns for assessment of liquidated damages will be computed as the number of Calendar Days elapsing between the contract Completion Date and the actual completion date.

**108.07.2 Calendar Day Contracts**

Begin work on the effective date stated in the Notice to Proceed. Complete all work within the number of Calendar Days specified in the contract.

Except during authorized suspensions, every day on the calendar is assessed against contract time, including No Work Days.

Contract time assessment will cease when the Project Manager approves the Contractor's Certificate of Work Complete form under Subsection 105.17.2.

Contract time overruns for assessment of liquidated damages will be computed as the number of Calendar Days the contract is not complete beyond the contract time specified.

**108.07.3 Working Day Contracts**

Begin work on the effective date stated in the Notice to Proceed. Complete all work within the number of Working Days specified in the contract provisions.

Meet the requirements in Table 108-3:

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All days are considered working days except Saturdays, no work days, and days on which the Contractor is specifically required by the contract to suspend construction operations. Working days will be charged during no work days for each day construction activities occur that have any impact on the traveling public, exclusive of traffic flowing unimpeded on approved detours or emergency and maintenance repairs to the project, when the time requirements under Subsection 104.05.2 are met.¶

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**¶**  
Time allowed for completion of the contract is determined by the Completion Date, Calendar Day or Working Day provision in the contract.¶

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**Moved up [1]:** Begin work on the effective date stated in the Notice to Proceed.

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**Deleted:** Complete all work within the number of calendar days specified in the contract.¶ A calendar day is defined in Subsection 101.03.

**Deleted:** days will be added for extensions added under Subsection 108.07.5

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**Deleted:** A working day is defined in Subsection 101.03.

**TABLE 108-3  
HOLIDAY CONTRACT TIME ASSESSMENT**

<b>Holiday:</b>	<b>Stop Work by:</b>	<b>Return to Work:</b>
Memorial Day	3:00pm on the Preceding Friday <sup>1</sup>	Tuesday
Labor Day	3:00pm on the Preceding Friday <sup>1</sup>	Tuesday
<b>When July 4 Occurs On:</b>	<b>Stop Work by:</b>	<b>Return to Work:</b>
Monday	3:00pm on the Preceding Friday <sup>1</sup>	Tuesday
Tuesday	The end of day on the Preceding Friday	Wednesday
Wednesday	3:00pm on the Preceding Tuesday <sup>1</sup>	Thursday
Thursday	3:00pm on the Preceding Wednesday <sup>1</sup>	Monday
Friday	3:00pm on the Preceding Thursday <sup>1</sup>	Monday
Saturday	3:00pm on the Preceding Thursday <sup>1</sup>	Monday
Sunday	3:00pm on the Preceding Friday <sup>1</sup>	Tuesday

Note 1: If all work operations are stopped before 12:00pm (noon), contract time will not be assessed on this day.

Contract time assessment will cease when the Project Manager approves the Contractor's Certificate of Work Complete form in accordance with Subsection 105.17.2.

All days except No-Work days are assessed against the contract time, except as follows: contract time will not be assessed on Winter Period days that the Contractor does not work or when the work has no impact to the traveling public, and on any Saturdays that the Contractor does not work. Traffic flowing unimpeded on approved detours is considered to have no impact on the traveling public. Contract time will not be assessed for days having inclement weather or the aftermath of inclement weather that prevent the Contractor from working at least six hours in the day. Inclement weather will not be considered when assessing time if the contractor is not actively performing work or is not scheduled to work.

Chargeable and non-chargeable working days will be determined daily by the Project Manager. For any week that the Contractor has chargeable days, the Project Manager will furnish a weekly report on the following Monday showing the number of working days:

- A. Charged for the preceding week;
- B. Previously charged;
- C. Specified for contract completion;
- D. Approved time extensions; and
- E. Remaining to complete the contract.

Submit a written protest to the Project Manager within the timeframe shown on the weekly report for any alleged discrepancies in the time assessed. Failure to file a protest is conclusive evidence that the time assessed is accepted as correct.

Contract time overruns for assessment of liquidated damages will be computed as the number of working days assessed beyond the contract time specified.

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Deleted: Work on no work days will considered a chargeable day and assessed against the contract time unless the work is an exempt work item defined in Subsection 101.03.¶

A working day will not be assessed against the contract for work performed up until 12:00 noon on Friday prior to Memorial Day, Labor Day or Independence Day (July 4<sup>th</sup>). ¶

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Deleted: During winter shutdown, the Project Manager will furnish a report showing the information listed above for any week that the Contractor has chargeable days.¶

Deleted: Contract time assessment will cease when the Project Manager approves the Contractor's Certificate of Work Complete form under Subsection 105.17.2.¶

## 108.03.2 Project Schedules

### A. ASC Schedules.

### B. CPM Scheduling

The Project Manager may withhold 10% of each monthly progress estimate for failure to submit an original or updated CPM schedule on time and in the manner required. Payment withheld for violation of the schedule requirements will be included in the next progress estimate following the Contractor's submission of the required CPM schedule. The Project Manager's acceptance of the CPM schedule does not attest to the validity of the Contractor's assumptions, logic constraints, dependency relationships, resource allocations, labor and equipment or other schedule aspects.

**2. Initial Schedule Requirements.** Include the requirements listed in Subsection 108.03.3(C) and the following:

- a. Early start sort
- b. 60-day look ahead bar charts by early start; and
- c. Logic diagram having a maximum 100 activities for each ANSI D (24-inch by 36-inch) size sheet. Ensure each sheet includes project number, page number, title, match data or diagram correlation and key to identify all components used in the diagram.

**3. Schedule Requirements.** Submit schedules that include:

- a. Activity identification numbers;
- b. Project milestones;
- c. Activity descriptions;
- d. Appropriate relationships;
- e. Activity durations of no more than 30 days;
- f. Procurement of permits;
- g. Material procurement separated into at least two activities, fabrication and delivery. Include time for delivering all submittals and Department review of working drawing submittals as separate items in the schedule logic for all items requiring submittal, review and approval;
- h. Activities coded to reflect the party performing each activity (only one party performs each activity) including subcontractors and suppliers and the area/location of each activity;
- i. Work days per week, holidays, number of shifts per day, hours per shift and major equipment to be used;
- j. Phasing (staging) details, if the work has phasing or is to be performed in phases;
- k. A WN which describes the following:
  - Anticipated work in an orderly sequence of the construction phasing;
  - Activity relationships;
  - Anticipated problems;
  - Anticipated project completion dates, in a detailed description; and
  - Activity manpower, equipment, unit quantities and production rates.Narratives that are a listing of the work will not be accepted. Include written narratives with each submission;

**Deleted:** If the work is not proceeding consistently with the Contractor's most recently reviewed ASC and WN, the Project Manager may require that the Contractor submit 2 copies of an updated ASC and WN that accurately reflect the Contractor's progress, resource allocation for the project, and revised schedule. Submit the updated ASC and WN within 1 working day of the Project Manager's request. Ensure that the WN and ASC submitted meet the above requirements and accurately reflect the work progress.

**Deleted:** Prepare the initial CPM schedule as an Activity On Node (AON) or Precedence Diagramming Method (PDM).¶

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**Deleted:** <#>Submit activity manpower, equipment, unit quantities and production rates to the Project Manager for review;¶

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**l.** Calendars, including weekends, holidays, or other Contractor non-work periods. Use project specific calendars. All activities must be identified by entry of their appropriate calendar; and

**m.** Adjustments to activity durations and production rates to account for weather.

Ensure monthly schedule updates reflect the previous month's actual work. [Correct errors listed by the Project Manager within 3 business days of notification.](#) The contract time will be adjusted only as specified in the contract. Furnish documentation to support requests for time extensions for milestone dates or the contract completion date.

[Ensure that the WN and project schedules submitted meet the above requirements and accurately reflect the work progress. If the work is not proceeding consistently with the Contractor's most recently reviewed schedule or WN,](#) the Project Manager may suspend work under Subsection 105.01(A) if the WN or project schedule does not accurately reflect the actual progress of the work; the suspension may continue until an accurate WN and project schedule is submitted.

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**603.04.3 Granular Bedding, Bedding, and Foundation Material**

Bedding material is measured by the cubic yard (m<sup>3</sup>) in place for pipes greater than 48-inch (1.2 m) diameter, and for all sizes of storm drain trunklines and laterals. Include the cost of bedding material for pipes 48-inch (1.2 m) diameter or less in the cost of the pipe. Foundation material is measured by the cubic yard (m<sup>3</sup>) in place.

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**701.04.3 Granular Bedding Material**

Furnish granular bedding material in accordance with either of the following:

1. Table 701-4 No.2; or
2. ¾-inch material in accordance with Table 701-16, but only that which is retained on the No 4 sieve or larger.

Deleted: 603.04.5 Granular Bedding Material for Storm Drains¶  
Granular Bedding material is measured by the cubic yard (m<sup>3</sup>) in place for storm drain trunklines and laterals

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**608.02 MATERIALS**

Use cast iron DWDs having a natural grey finish. Ensure gray iron castings are  
manufactured from iron conforming to ASTM A48 Class 30B, as noted in AASHTO M 306.  
Furnish DWDs listed on the QPL.

**Deleted:** Use DWDs – Type 1 for new sidewalk construction. DWDs – Type 1 are cast directly into sidewalk. Use DWDs – Type 2 for retrofits on existing sidewalks.

**Deleted:** Ensure ductile iron castings are manufactured from iron conforming to ASTM A536 Grade 80-55-06

### 618.03.5 Traffic Control General Requirements

Meet all traffic control plan requirements before starting work affecting the roadway. Furnish and maintain traffic control devices that meet the "acceptable" category described in Quality Guidelines for Temporary Traffic Control Devices and Features published by ATTSA. Repair or remove and replace "marginal" devices with 24 hours; and repair or remove and replace "unacceptable" devices immediately. Anything in the worse-than-marginal conditions is not acceptable. Do not deliver devices in the "unacceptable" category to the jobsite.

**Deleted:** Use devices that are new or like new in condition.

### 618.04 METHOD OF MEASUREMENT

Signs and devices must meet standards outlined in Subsection 618.03.5 to be measured for payment. Failure to adequately maintain and clean traffic control devices in use renders the traffic control operation unacceptable.

**Deleted:** the current ATSSA *Quality Guidelines for Temporary Traffic Control Devices*

The contractor, upon receiving written or verbal notification, will be given 24 hours to make the traffic control operation compliant. Traffic Control directly affecting the safety of the public must be attended to immediately. The Project Manager may apply deducts as shown below due to traffic control operations not meeting the requirements set forth in Section 618:

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- 10% of the daily traffic control units;
- \$500 for lump sum contracts.

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**707.01.1 Pavement**

**B. Joint Sealing Material.** Furnish sealing material for all types of pavement joints that is a hot-poured thermoplastic rubber or rubber asphalt compound in accordance with ASTM D6690 and also having a resilience within the range from 30%-60%, furnished in one grade only. Use ready-mixed, cold applied joint fillers for sealing concrete pavement joints only with the Project Manager's prior written approval.

713.12 Rolled Erosion Control Products

TABLE 713-5  
ROLLED EROSION CONTROL

Notes

3. Minimum shear stress the rolled erosion control product (un-vegetated) can sustain without physical damage or excess erosion (>½-inch soil loss) during a 30-minute flow event [in accordance with ASTM D6460 or D7207](#).
4. Minimum shear stress the TRM (fully vegetated) can sustain without physical damage or excess erosion (>½-inch soil loss) during a 30-minute flow event [in accordance with](#) ASTM D6460 [or D7207](#).

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