CONSTRUCTION SCHEDULES

General

This supplemental specification addresses schedule requirements for SCDOT contracts. There are three levels of schedules. The level required is included in the Special Provision. The level of schedule is selected based on the design field review completed in the preconstruction phase or during estimate development.

Level 1 – Minimal Schedule Requirement

Level 2 Schedule – Standard Critical Path Method Schedule

Level 3 Schedule – Critical Path Method Schedule with Monthly Cumulative

Payment Clause.

Level 1 Requirement:

Provide to the Resident Construction Engineer (RCE) a four-week look-ahead schedule identifying planned weekly work activities. Update the schedule every two weeks. The look-ahead schedule allows the RCE to schedule construction engineering and inspection personnel. The Department will not be responsible for delays which may be caused by the contractor's failure to abide by his schedule. Failure to submit the look-ahead schedule as specified may result in the withholding of partial payment estimates.

Provide the look-ahead schedule in Word or Excel format or as directed by the RCE.

The Contractor may provide a CPM schedule as indicated in <u>Level 2 Schedule Requirements</u> in lieu of the four-week look-ahead schedule as follows:

- Notify, in writing, the RCE that a CPM schedule will be provided in lieu of a four-week look-ahead schedule. Provide timely notification so that the baseline schedule is submitted in accordance with <u>Level 2 Schedule Requirements</u> Submission, Review, and Acceptance Process Baseline Schedule.
- No payment will be made if the Contractor elects to provide a CPM as a Level I
 Requirement. <u>Measurement and Basis of Payment</u> will be according to the Level I
 Schedule.
- Election to provide a CPM schedule in lieu of a four-week look-ahead schedule will be for the duration of the project.

Level 2 Schedule Requirements:

For projects requiring a CPM schedule, the Contractor will provide and update a construction schedule to the SCDOT, which will be used as a quantitative basis for:

- Monitoring and evaluating the Contractor's progress in completing contracted work;
- Evaluating requests for additional contract time;
- Budgeting for construction partial payment estimates; and
- Managing SCDOT engineering and inspection personnel.

The Contractor's construction schedule shall encompass the entire contract period, and be developed consistent with the contract milestones and the contract maintenance of traffic plan. Critical path activities shall be identified for the duration of the project. The schedule shall also include sufficient information *as outlined in this supplemental specification* to provide for monetary and quantitative tracking of the work by the SCDOT.

Include and reference in the schedule at the time of occurrence, all documentation and explanations supporting a time adjustment request.

Utilities

The schedule shall reflect the utility relocations noted in the contract documents and discovered during field review and include activities of appropriate duration, location, and logic, as provided by the Utility, for the utility work. Where utility durations are unknown, the Contractor shall provide a reasonable estimate of duration. Utility durations will be reviewed in the baseline approval process as outlined in the section "Submission, Review, and Acceptance Process." Utility durations will be presented at the Preconstruction Conference for concurrence by the utility provider. In the event that the utility representative cannot provide concurrence at the Preconstruction Conference, the Contractor, the Resident Construction Engineer, and the utility provider shall work diligently to reach acceptable durations. If there is no concurrence or input from the utility provider concerning the Contractor's utility durations within 15 calendar days following the Preconstruction Conference, the submission with the Contractor's estimate of utility duration will be reviewed for baseline acceptance. Further utility duration changes beyond this point in time will be assessed in monthly schedule updates. Failure to include activities for any element of work or any known utility work will not relieve the Contractor from completing the work within the allotted contract time.

S. C. File No.

Schedule Submissions

Contractors shall maintain CPM schedules for all applicable projects using at a minimum Primavera Project Management 5.0 or Primavera Contractor 5.0. The Contractor shall coordinate with the Department's District Scheduler to provide an exported schedule importable into the Primavera version used by the Department.

Templates for the CPM schedules are available to download at the SCDOT construction Extranet site located:

https://www.scdot.org/business/constructionletting-extranet.aspx

When submitting schedules to the SCDOT, the Contractor shall assign file names to each schedule file (baseline and updates) according to the following conventions (dates are YYMMDD):

Type of Schedule Submitted:	Baseline	Update	As-Built	
File Name Convention:	[Contract ID]b[Data Date]	[Contract ID]u[Data Date]	[Contract ID]ab[Data Date]	
File Name Example:	32.82571b060201	32.82571u060201	32.82571ab060201	

Note on Data Dates - The initial Baseline Construction Schedule shall have a data date equal to the Award Date and not include any work to date. Monthly schedule updates shall have a data date set 1 day beyond the most recent estimate period end date.

Extranet file names upon uploading shall include the contract ID.

All submissions shall be made within the time frames defined under "Submission, Review and Acceptance Process."

Electronic Files: Upload each baseline construction schedule and monthly update submission to the SCDOT Construction Extranet site in .xer format.

The Extranet site location is:

https://www.scdot.org/business/constructionletting-extranet.aspx

Provide an Adobe file of each baseline construction schedule, monthly update submission, and schedule narrative to the District Scheduler and the Resident Construction Engineer. The schedule Adobe file shall include the following columns in 11 inch x 17 inch format: Activity ID, Activity Name, Start, Finish, Schedule % Complete, Physical % Complete, Budgeted Total Cost, Actual Total Cost, Remaining Total Cost, At Completion Total Cost, Original Duration, Remaining Duration, At Completion Duration, Earned Value, Planned Value, Schedule Variance Index, and Total Float. Sort on "Start" prior to printing to Adobe.

Schedule Narrative: Submit a Schedule Narrative Report with the baseline and each monthly update schedule describing current project schedule status and identifying potential delays. This report will include a description of the progress made since the previous schedule submission and objectives for the upcoming 30 calendar days.

- 1) Address all previous schedule review comments;
- 2) The report shall indicate if the project is *on schedule*, *ahead of schedule* or *behind schedule* as compared to the accepted baseline. Include the Schedule Variance Index, planned value cost and earned value cost. If the project is ahead of schedule or behind schedule, the report shall include the specific number of calendar days. If the project is behind schedule, the report shall include a detailed recovery plan that will put the project back on schedule. The narrative shall compare the Substantial Completion milestone for the baseline with the update;
- 3) Describe the *current critical path* of the project including the lowest total float value and indicate if this has changed in the last 30 calendar days. Discuss current successes or problems that have affected either the critical path's length or have caused a shift in the critical path within the last 30 calendar days. Identify specific activities, progress, or events that may reasonably be anticipated to impact the critical path within the next 30 calendar days, either to affect its length or to shift it to an alternate path;
- 4) List all schedule logic or duration changes that have been made to the schedule since the previous submission. Provide an explanation for any *constraint* used. For each change, describe the basis for the change and specifically identify the affected activities by identification number;
- 5) Scheduling assumptions (considerations for known and foreseeable constraints or restrictions such as weather, traffic, environmental, utility, safety, etc);
- 6) Identify activities, either in progress or scheduled to occur within the following 30 calendar days that require Department participation, review, approval, etc;
- 7) Identify any calendars used that are not DOT specific, and explain the details of those calendars:
- 8) Identify schedule settings used;
- 9) Identify activity expense item changes;
- 10) Minimized the use of lag. Where possible, use an activity to represent lag time. In no instance shall negative lag be used;
- 11) Description of how the schedule is organized (e.g. broken down by road or activity);
- 12) Explain any actual duration exceeding the original duration;
- 13) Explain out of sequence activities individually and the overall effect on the schedule;
- 14) Explain, individually, activities that failed to start in the previous 30 days;
- 15) Include the current contract completion date;
- 16) Include the current contract amount and sum of actual cost;
- 17) Include approved change orders. Explain the costs and schedule change associated with them;
- 18) Submit the narrative with a naming convention of [Contract ID]n[Data Date].doc (e.g 32.82571n060201.doc). Contractor will upload the electronic copy [in .doc format] to the South Carolina Department of Transportation Construction Extranet site;

19) Explain the schedule impacts of all utility work, known or anticipated;

Schedule Details

SCDOT reserves the user_text1 and user_text2 fields.

Data Date - The Baseline Construction Schedule shall have a data date equal to award date and not include any completed work to date. Monthly schedule updates shall have a data date set to one day beyond the most recent estimate period end date.

Milestones - Schedule shall identify the following milestones as a minimum:

- Award Date: The date the Contractor is notified by the Director of Construction that he is awarded the project.
- *Contract Execution Date*: The date the contract is signed by the Department.
- Baseline CPM Acceptance: Anticipated date the baseline schedule is accepted. No work will start prior to this milestone date.
- *Notice to Proceed Date (NTP):* the NTP date is determined in coordination between the Engineer and the Contractor.
- Work Begin Date: Actual date that on-site work commences. In the baseline CPM schedule, this is the anticipated work begin date by either the prime contractor or any subcontractor. Once work begins, status the schedule with the actual date recorded in SiteManager.
- Interim Completion Dates or Interim Milestones: When interim completion dates or interim milestones (associated with project stages) are included in the contract specifications.
- *Mobilization:* Preparations for and moving of equipment, etc., to the project site.
- *Start of Paving:* Date paving production and placement is to start. This includes any paving requiring a SCDOT certified inspector representing the Department.
- Substantial Work Complete Date: The point in the project when all pay items have been installed in reasonable conformance with the plans and specifications over the entire length of the project including tie-ins and all lanes of traffic are open to the public in their final configuration with the final applications of thermoplastic and raised pavement markers. The only remaining work to be performed is punch list items. Place a Finish On or Before constraint on this milestone equal to the completion date in the contract. If a change order is completed for time, update the constraint to the adjusted completion date.
- As-Built CPM Schedule Submission: The point in time in which the final schedule submission is made.
- Project Liability Insurance Expiration Date MM/DD/YY: This date references the expiration of the insurance as defined in Section 103.8 of the Standard Specification for Highway Construction. Include the date that the project liability insurance expires in the milestone activity name. If the expiration renewal date is prior to the Contract Completion Date, place a "Finish On" constraint on the finish milestone. If the expiration renewal date is beyond the Contract Completion Date, place an "As Late As

Possible" constraint on the finish milestone. There are no logic ties for this milestone. Inclusion of this date in the CPM schedule does not relieve the contractor of his responsibility to retain liability insurance as defined by the Standard Specifications for Highway Construction.

Activities –

- Each Activity shall be part of the logic driven network, be cost loaded using Expense Categories, and include a predecessor (except the first activity) and a successor (except the last activity).
- Each Activity Name shall include a verb and a noun and represent the work function.
- Activity Names shall include the location of the work when there are multiple activities of the same work in different locations of the project.
- Limit activity original duration to 30 calendar days.

As a minimum, and when applicable, the schedule shall include the following activities when related work is part of the contract.

- *Mobilization:* Provide the same number of mobilization activities as for payment in the proposal i.e.
 - Mobilization Payment I
 - Mobilization Payment II
- *Clearing & Grubbing:* Self-explanatory.
- *Utility Relocations:* The schedule must reflect the utility relocations noted in the contract documents and include activities of appropriate duration for the utility adjustments. Where utility durations are unknown, the Contractor shall provide a reasonable estimate of duration. Relate utility activities to the contract work activities that they effect or are affected by.
- *Cure Period:* The period of time between two activities needed for material curing. Examples include concrete and thermoplastic pavement markings. For this activity, use a seven day work week calendar.
- *Earthwork:* Unclassified & borrow excavation, compaction, fine grading, etc.
- *Drainage:* Pipe, catch basins, manholes, etc.
- Base Course: Graded aggregate base courses, cement modified bases, etc.
- *Paving:* Hot mix asphalt base, intermediate, and surface courses; Portland cement concrete pavements, etc.
- Structures: Bridges, box culverts, retaining walls, etc.

Where sufficient detail has not been provided in included activities to determine progress of work and forecast of inspection and cost, the Department will request additional activities be added. The Department requires retain logic be used in scheduling projects. Relationship ties of all out-of-sequence activities should be corrected to reflect the actual occurrence. The use of progress override is not permitted. The monthly schedule update narrative shall justify any logic change(s).

Suspend Dates - The use of suspended dates is prohibited. If the activity is disrupted, break out into additional activities and explain in narrative.

Activity Expected Finish Dates – Activity Expected Finish dates are prohibited.

Resources – The Department will not require any input to the resource component of the schedule by the Contractor.

Expenses – Contractor shall assign the SCDOT contract items as expenses to each activity. The information provided under Expenses is used to evaluate daily production rates. SCDOT contract items will be included as Expense Categories and will be made part of the SCDOT schedule template available to download from the construction Extranet site. These shall be the only expense categories associated with activities. Under expenses, populate the fields Budgeted Units, Price/Unit, and Actual Units. If a SCDOT contract item cannot be found in the most current template, SCDOT should be contacted. The template will then be updated and uploaded to the extranet by SCDOT.

Weather - Considerations for normal weather shall be addressed within the activity duration.

Calendars – Contractor shall assign an appropriate SCDOT calendar to each activity in the schedule. Alternate calendars may be assigned, but specifics of the alternate calendars must be justified in the baseline narrative. Contractor shall assign all calendars as project specific – NOT GLOBAL. Acceptance of the alternate calendars is subject to review by the SCDOT. Considerations for weather shall be addressed within the activities – calendars shall not be modified to account for weather considerations. While calendars have been created to address established seasonal restrictions, it is the Contractor's responsibility to assure that all restrictions, as identified in the contract documents, are included. Where the Contractor elects to not utilize all available contract time in the baseline schedule submission, either by blocking out days in the calendar or including an activity for an extended period of no work, future delays against the time omitted will not warrant additional time.

The Baseline Construction Schedule shall not extend beyond the number of working days or contract completion date originally provided in the contract.

Cost Loading – All schedule activities shall be cost loaded using the contract bid items (Expense Categories), unit prices, and units (quantities) under "Expenses" in Primavera. Associated expenses shall correlate with the item of work covered by the activity.

Float – Float is not for the exclusive use or benefit of either the Department or the Contractor. Negative float in the original baseline schedule is not allowed.

Schedule Layout – Organize the schedule using a Work Breakdown Structure (WBS) consistent with the phasing and staging noted in the contract documents.

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SUPPLEMENTAL SPECIFICATIONS

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Default Values – Contractor shall use the following defaults, physical percent complete, retain logic, longest path critical activities, and under Admin Preferences, make Time Periods <u>8.0</u> hours/day, <u>40</u> hours/week, <u>172</u> hours/month, and <u>2,000</u> hours/year.

Submission, Review and Acceptance Process

Baseline Schedule –

Submission:

Regular Bid Projects:

Contractor shall submit a Critical Path Method (CPM) Contract Schedule and Narrative to the District Scheduler no more than 15 calendar days after execution of the contract or 15 days prior to the preconstruction conference, whichever is earlier. Once the initial baseline schedule is submitted, a preconstruction meeting date may be assigned by the RCE and Contractor. The CPM Schedule and Narrative shall be submitted via upload to the Extranet. Upon upload, the Contractor shall immediately notify the District Scheduler and the Resident Engineer via email that the CPM schedule has been submitted. The accepted CPM baseline schedule is paid for in the first available estimate period after contract execution.

A+B Bid Projects:

Contractor shall submit a Critical Path Method (CPM) Contract Schedule and Narrative to the District Scheduler no less than 15 calendar days prior to the preconstruction conference. Once the initial baseline schedule is submitted, a preconstruction meeting date can be assigned by the RCE and Contractor. The preconstruction meeting shall be assigned no earlier than 15 calendar days after the initial baseline submission. The CPM Schedule and Narrative shall be submitted via upload to the Extranet. Upon upload, the Contractor shall immediately notify the District Scheduler and the Resident Engineer via email that the CPM schedule has been submitted.

Review:

Upon receipt of the CPM Construction Schedule, SCDOT shall review and provide comments to the Contractor within 10 business days of receipt. The Contractor will have 5 business days to respond to SCDOT comments. This process will continue until the Engineer and the District Scheduler determines the construction schedule is acceptable.

The Contractor's representative familiar with the submitted schedule shall present and discuss their accepted schedule at the Preconstruction Conference. In the event the schedule has not been accepted (i.e. review process is ongoing), the most current schedule under review shall be presented.

Acceptance:

Acceptance of the submitted schedule by the SCDOT will establish the baseline schedule for the contract. This acceptance by SCDOT does not serve to excuse any omissions or errors in the Contractor's schedule (i.e. activities not included in baseline will not be considered in any time extensions).

Review and acceptance of baseline schedule is required prior to start of work. Delays in reaching this acceptance will not constitute a basis for granting additional contract time. If there is no concurrence or input from the utility provider concerning the Contractor's utility durations within 15 days following the Preconstruction Conference, the submission with the Contractor's estimate of utility duration will be reviewed for baseline acceptance. Further utility duration changes beyond this point in time will be assessed in monthly schedule updates.

Monthly Updates –

Monthly updates shall be made no later than 15 calendar days following the most recent estimate period end date, whether or not an estimate was generated and shall have a data date one day beyond the most recent estimate period end date. If no work was completed during the estimate period, an update with the most current estimate period is required. Upon upload, the Contractor shall immediately notify the District Scheduler and the Resident Engineer via email that the CPM schedule has been submitted. Failure to submit timely updates will result in SCDOT evaluating contract status from the last submitted update schedule by adjusting the data date to the most current estimate period end date. Late update submittals may result in the Contractor being evaluated for preliminary delinquency in accordance with current version of the South Carolina Department of Transportation Standard Specifications for Highway Construction. Habitually late submittals may result in automatic delinquency. Failure to submit acceptable schedule updates as required will result in the withholding of the partial payment estimate regardless of preliminary delinquency. Updates shall include the following:

- Updated schedule to show actual progress on activities;
- Updated schedule to show actual costs on activities;
- Change orders that have occurred during the last estimate period;
- Any task dependent activity greater than 30 days in actual duration that has not incurred additional costs since the last update shall be terminated and broken into additional activities. Document the activity change and reason for late completion in the narrative;
- Remaining costs on completed activities are zeroed (if remaining costs are redistributed, indicate in the narrative the activities containing the costs);
- Update remaining cost appropriately;
- Updated schedule to show actual completion on milestones;
- Narrative to describe progress, planned activities, issues, adjustments to remedy any activities or milestones behind schedule, etc., in the format described in Schedule Submissions;

SUPPLEMENTAL SPECIFICATIONS

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 Any changes other than those to actual start, actual finish, remaining duration, and Percent Complete are considered revisions. Revisions to a schedule update are subject to acceptance by the Engineer;

As-Built Schedule – A final As-Built Schedule shall be submitted within 15 calendar days following the contract completion. The as-built schedule should reflect the final project including extra work from change orders.

Baseline Schedule Changes – Once the baseline schedule has been accepted, all subsequent schedules provided will be considered schedule updates and compared to the original baseline. A new baseline will only be considered when significant changes in contract scope, changes in SCDOT priorities, or delays beyond the control of the Contractor occur.

If a baseline change is needed, the Contractor shall provide, in writing, a request to the Resident Construction Engineer with the following information:

• An electronic copy of the proposed baseline schedule using the following naming convention and in accordance with **Schedule Types** (included previously)

Type of Schedule Submitted:	Updated Baseline
File Name Convention:	[Contract ID]ub[Data Date]
File Name Example:	32.82571ub060201

• Narrative identifying changes warranting a new baseline

A decision for an updated baseline will be made jointly between the Resident Engineer and the District Scheduler within 10 business days of receipt of request.

Progress Meetings- The contractor shall present the most current schedule at progress meetings to discuss any issues and upcoming events. If found necessary by the SCDOT, the contractor shall attend meetings to specifically discuss issues about the schedule.

Level 3 Schedule Requirements

Level 3 schedule requirements will be enforced on contracts where the bid amount exceeds \$20 million and one of the following occurs:

- SCDOT financial status warrants the specific control of large project monthly payouts
- The contract SVI is less than -0.50 or greater than 0.50 for two consecutive months indicating the project is significantly behind or ahead of the Contractor's baseline schedule.

In the event that the Department chooses to enforce the Level 3 Schedule Requirement, the Contractor will submit an updated baseline schedule within 15 days of notification. The Contractor schedule will be used for payment purposes once the baseline schedule has been accepted by the Department. In addition to meeting the requirements of the Level 2 Schedule, the following shall apply.

Once accepted by SCDOT, the project's initial baseline cost loaded CPM will be used for SCDOT budget purposes and the contractor will not be paid in excess of the cumulative amount shown on the schedule through each payment date; regardless of what subsequent monthly updates indicate. For example, see chart below:

Pay period ending	12/31/11	1/31/12	2/29/12	3/31/12	4/30/12	5/31/12
Baseline CPM Planned	2.0	3.0	3.0	4.0	4.0	3.0
Payout in Millions	(2.0)	(5.0)	(8.0)	(12.0)	(16.0)	(19.0)
(Cumulative to Date)						
Actual work performed	1.5	2.0	3.5	6.0	3.0	4.0
(Cumulative to Date)	(1.5)	(3.5)	(7.0)	(13.0)	(16.0)	(20.0)
Payout by SCDOT	1.5	2.0	3.5	5.0	4.0	3.0
(Cumulative to Date)	(1.5)	(3.5)	(7.0)	(12.0)	(16.0)	(19.0)

Partial payment estimates will be generated in SiteManager (computerized construction management system) based on actual quantities installed. If actual quantities installed exceed the cumulative schedule amount to date, a negative adjustment will be made in SiteManager to adjust the pay as necessary. For previous work exceeding the schedule amount, payments will be released as work progresses and payouts fall below the scheduled cumulative amount, never to exceed the cumulative scheduled amount through that pay period.

If significant contract changes are necessary, and upon approval by the SCDOT, a re-baseline to the initial CPM will be allowed per the CPM schedule specification and the payout schedule may be adjusted accordingly.

All subcontractors must be paid in accordance with the Prompt Payment Clause (Supplemental Specification dated June 14, 2000) for the quantities used to generate the partial payment estimates. In instances where a payout by SCDOT is less than the actual work installed under a given estimate, the Prompt Payment Clause is hereby amended to require full payment to all subcontractors, for work complete, within 7 days of receipt of said SCDOT payout.

Contract Schedule Performance Evaluation:

Project performance is not measured for contracts where the percent time < 0.30 for projects with a Level I Requirement and percent time < 0.20 for projects with the Level II Requirement or Level III Requirement.

Percent Time = (Last Estimate Date - NTP)/[(Adj Completion Date)-(NTP)]

Level I Requirement: Contracts with a minimal schedule requirement that are not deemed "on-call:"

Performance curves were developed using historical data from SiteManager based on contract type and ranges of contract amount. For each of these groupings, three curves identifying minimal performance levels are used to measure project performance. On the example below, the curves indicate that projects falling below the 50th percentile line are slower than 50 percent of the projects of same type and in the range of the bid amount indicated. Projects falling below the 40th percentile line are slower than 60 percent of the projects of the same type and in the range of the bid amount indicated. Projects falling below the 25th percentile line are slower than 75 percent of the projects of the same type and in the range of the bid amount indicated.

On a monthly basis at the end of the estimate period, a comparison of Time Percent Complete vs. Work Percent Complete will be made and plotted on a performance curve matching the contract type within the bid amount. The measurements are defined as:

Time Percent Complete = (Last Estimate Date - NTP)/[(Adj Completion Date)-(NTP)]

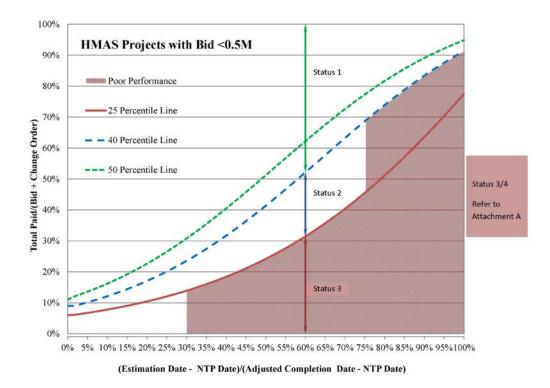
Work Percent Complete = Total Paid/(Total Bid + CO)

Poor Performance is considered when any contract is beyond its Adjusted Contract Completion date or when Time Percent Complete versus Work Percent Complete plots in the shaded area (on the appropriate performance curve) as defined by:

[30%, 75%) time below the 25th percentile line

-or-

[75%,100%] time below the 40th percentile line.



Example Performance Curve

Performance curves may be found under Construction Schedule Templates on the Extranet at:

https://www.scdot.org/business/constructionletting-extranet.aspx

Contracts with a CPM – Level II and III Schedule:

Monthly CPM updates are required for contracts with a CPM Level II or Level III schedule requirement as defined under **Submission**, **Review and Acceptance Process**. The contractor shall update actual completed quantities and physical percent complete (% of work complete for the activity) for all activities impacted during the most recent estimate period. Budgeted cost of the work performed (Earned Value) from the schedule update and budgeted cost of work planned (Planned Value) from the accepted baseline schedule are used to determine project variance in Primavera utilizing Schedule Variance Index (SVI). The calculation used by Primavera is:

Schedule Variance Index (SVI) = (Earned Value – Planned Value)/Planned Value

Where SVI<-0.10, the contract is considered to be slipping behind plan.

Contract Performance Action:

A summary of progress performance action is included in Attachment A. Preliminary Notice of Delinquency is abbreviated as PND.

Level I Schedules:

When plotting Time Percent Complete vs Work Percent Complete as indicated above, if the contract falls in the shaded section on the appropriate performance curve,

First Offense:

- -PND w/o bonding notification
- -Request recovery plan

Second Offense:

- -PND w/bonding notice
- -Request recovery plan
- -Hold PND to monitor recovery plan. If plan not met, move to delinquency

Level II or III Schedules:

In any estimate period where the SVI is (-0.20,-1.0] as defined under: **Contracts with a CPM** – **Level II and III Schedule:**

First Offense:

- -PND w/o bonding notification
- -Request recovery plan

Second Offense:

- -PND w/bonding notice
- -Request recovery plan
- -Hold PND to monitor recovery plan. If plan not met, move to delinquency

Measurement and Basis of Payment

Level 1 Schedule

There is no separate measurement or payment for look-ahead schedules. All costs associated with the preparation or revision of a look-ahead schedule are considered incidental to the work.

Level 2 and 3 Schedules

The Department will make partial payments according to Section 109, Standard Specifications for Highway Construction, and as modified by the following schedule:

Basis of Payment	Percentage of Contract Unit Price of Item	
After the Engineer has accepted the CPM Baseline schedule	60	
After the Engineer has accepted the As-Built CPM schedule	40	

SUPPLEMENTAL SPECIFICATIONS

Type of Schedule	Ahead of Schedule	Status 1 Action	Status 2 Action	Status 3 Action	Status 3 Action	Status 4 Action
Level I Performance Curve	Projects falling above the 50% curve Monitor payouts	No Action	When plotting Time Percent Complete vs Work Percent Complete, if the contract falls in the shaded section of Status 2 or Status 3 on the appropriate performance curve, First Offense: -PND w/o bonding notification -Request recovery Second Offense: -PND w/bonding notice -Request recovery plan -Hold PND to monitor recover plan. If plan not met, move to delinquency.		If the contract has not reached substantial completion and is beyond contract completion < 45 days	If has not reached substantial completion and contract is beyond the contract completion > 45 days,
					Preliminary Notice of Default w/bonding notice - Request plan to complete -Hold preliminary notice to monitor plan to complete. If plan not met, move to Default.	Notice of Default according to the Standard Specifications -Request plan to complete
Level II or III CPM	SVI > 0.10 Monitor payouts	SVI > -0.10 No Action	SVI (-0.10, -0.25]	SVI (-0.25, -1.0]	If the contract is beyond contract completion < 45 days	If contract is beyond the contract completion > 45 days,
		Where SVI (-0.20, -1) First Offense: -PND w/o bonding magnetic recovery Second Offense: -PND w/bonding not-Request recovery plant to monit plan not met, move to		notification otification lan tor recover plan. If	Preliminary Notice of Default w/bonding notice - Request plan to complete -Hold preliminary notice to monitor plan to complete. If plan not met, move to Default.	Notice of Default according to the Standard Specifications - Request plan to complete
	Notes: [indicates inclusive of value (indicates exclusive of value					

 $Attachment \ A-Summary \ of \ Progress \ Performance \ Action$