



Oregon Department of Transportation




Topics in these slides...

- Contract Time
- Contract Events / Delays
- Project Schedule
- Project Scheduling

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Contract Time

Discussed in Chapter 13 of the Construction Manual

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- Contract Time is specified in Section 00180.50 of the Special Provisions, either as:
 - Specified completion date
 - Calendar days
 - May also have additional intermediate completions
 - May have a specified completion with a limited time for on-site work
- ODOT does not use workdays because it is difficult to determine whether a day is or is not chargeable.

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Specified Completion Date ?

CONTRACT AND BONDS
FOR HIGHWAY CONSTRUCTION

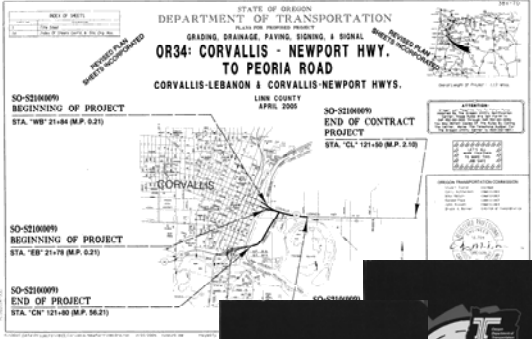
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SALEM, OREGON



GRADING, DRAINAGE, PAVING, SIGNING AND SIGNAL
ON OR CORVALLIS - NEWPORT HIGHWAY TO PEORIA ROAD
CORVALLIS - LEBANON & CORVALLIS TO NEWPORT HIGHWAYS
LEWIS COUNTY

CONTRACT NUMBER: 5217
EXPIRATION ACCOUNT NUMBER: 00000000
CLASS OF PROJECT: 00000000000000000000
CONTRACTOR:
DATE OF AWARD: 10/20/09
SCHEDULED COMPLETION: 10/20/09

T&E 11/08 0000000000

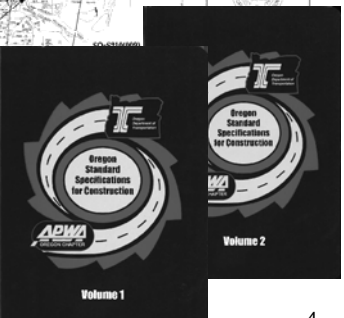


SO-S210009
 BEGINNING OF PROJECT
 STA. "WB" 21+84 (M.P. 0.21)

SO-S210009
 BEGINNING OF PROJECT
 STA. "WB" 21+78 (M.P. 0.27)

SO-S210009
 END OF PROJECT
 STA. "CN" 121+00 (M.P. 0.21)


SO-S210009
 END OF CONTRACT PROJECT
 STA. "CL" 121+00 (M.P. 0.21)




Volume 1

Volume 2

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Contract Change Order(s)?


Page 20 of the Contract...

00180.50(h) Contract Time - Complete all Work to be done under the Contract, except for seeding establishment, not later than October 31, 2005.


00180.85(b) Liquidated Damages - Add the following paragraph:
 The liquidated damages for failure to complete the Work on time is \$ 1000 per Calendar Day.*

* Calendar Day amounts are applicable when the Contract time is expressed on the Calendar Day or fixed date basis.

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Contract Time

Notification of Commencement and Completion Dates for Contract Projects
(form 734-3233)

First Notification
(defined in Section 00130.90)

- Issued when the Contractor first starts any field work related to the project.

NOTIFICATION OF COMMENCEMENT AND COMPLETION DATES FOR CONTRACT PROJECTS

PROJECT NAME (SECTION)		CONTRACT NO.
HIGHWAY	COUNTY	E.A. NO.
CONTRACTOR		F.A. PROJECT NO.
PROJECT MANAGER (sign)	DATE	DATE OF AWARD

FIRST NOTIFICATION
DATE ON WHICH THE SECTION OF A SIGN OR PLANT, THE DEVELOPMENT OF AGGREGATE SOURCES, OR THE PERFORMANCE OF A CONTRACT CONSTRUCTION OPERATION BEGAN.

SECOND NOTIFICATION

SPECIFIED COMPLETION (FROM SECT. 00180.50)	DAYS CHARGED BEYOND SPECIFIED COMPLETION	DATE(S) THE WORK WAS COMPLETED AND THE TIME CHARGES STOPPED.
(A) _____	_____	_____
(B) _____	_____	_____
(C) _____	_____	_____


ALL CLAIMS FOR ADDITIONAL COMPENSATION MUST BE SUBMITTED BY: DATE (SEE SUBSECTION 00199.30 OF THE CONTRACT PROVISIONS FOR ADDITIONAL REQUIREMENTS.)

KNOWN ITEMS NECESSARY TO COMPLETE THE REQUIREMENTS FOR 'THIRD NOTIFICATION' ARE:


THIRD NOTIFICATION
DATE ON WHICH ALL CONTRACT WORK WAS COMPLETED, INCLUDING CORRECTIVE WORK, EQUIPMENT AND PLANT REMOVAL, SITE CLEANUP, AND PROJECT MANAGER'S RECEIPT OF ALL CERTIFICATIONS, BILLS, AND OTHER DOCUMENTS REQUIRED UNDER THE CONTRACT.

Distribution: <input type="checkbox"/> Original to Construction <input type="checkbox"/> Contractor Headquarters <input type="checkbox"/> Region	<input type="checkbox"/> Project Manager's File <input type="checkbox"/> Region Survey Group	RESTRICTIONS: <small>REPORT THE SECOND NOTIFICATION AS EACH PHASE OF WORK IS COMPLETED. IF THE SPECIFIED COMPLETION DATE HAS BEEN MODIFIED BY CONTRACT CHANGE ORDER, INCLUDE COPIES OF THE ORDERS WITH THE ORIGINAL FORM SENT TO CONSTRUCTION.</small>
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734-3233(08)



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Contract Time

Weekly Statement of Contract Time Charges (form 734-3483)


**Submit as specified in Section
00180.50(c) and (d):**

- For calendar days, per the specifications (15 days after NTP in 2008 Standard Specifications)
- For specified completion date, immediately after each specified completion date
- Continue submitting until Second Notification
- Also railroad protection work, specified road closures and other times if Contractor is responsible for Liquidated Damages or additional costs for overrunning specified timeframes


WEEKLY STATEMENT OF CONTRACT TIME CHARGES

PROJECT NAME (SECTION)				CONTRACT NO.			
HIGHWAY				F. A. PROJECT NO.			
CONTRACTOR NAME AND ADDRESS				WEEK ENDING			
				DATE MAILED TO CONTRACTOR			
CONTRACT TIME UNITS (L, A, N, W, S, C, etc.)				REASONS FOR NOT CHARGING TIME			
BEGINNING DATE OF TIME CHARGE							
DAY OF WEEK	PREDOMINANT WEATHER						
SUN.							
MON.							
TUE.							
WED.							
THU.							
FRI.							
SAT.							
DAYS CHARGED THIS WEEK				NOTICE TO CONTRACTOR			
DAYS CHARGED ON PREVIOUS STATEMENT				If you are in disagreement with the number of "Days Charged This Week", you have 7 days after delivery of this statement to file written protest with the Project Manager, setting forth in detail the facts upon which the protest is based. See subsection 00180.50 in the contract specifications for additional instructions.			
REVISIONS OR ADJUSTMENTS (L = add, - = remove items)							
DAYS CHARGED TO END OF CURRENT WEEK							
TOTAL NUMBER OF CALENDAR DAYS							
DAYS REMAINING (Specify Completion Date)				0	0	0	0
EXCESS DAYS USED				0.0	0.0	0.0	0.0
COMMENTS: (INCLUDE CHANGES TO SPECIFIED COMPLETION)							
						PROJECT MANAGER SIGNATURE _____ DATE _____	

734-3483(8-08) DISTRIBUTION: CONTRACTOR'S HEADQUARTERS, CONTRACTOR'S PROJECT OFFICE, REGION, AND CONSTRUCTION




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Contract Time

- Delays**
Whether or not the Contractor notifies the Agency of a delay as specified in Section 00180.60, be aware of delays to the project, record needed information, require needed schedule updates, and take appropriate action to mitigate delays.

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Contract Time

- **Liquidated Damages**
Addressed in Section 00180.50
 - As soon as the Contractor exceeds the specified contract time for an intermediate completion or the contract completion, assess liquidated damages on the progress estimate.
 - **Be sure to issue form 734-3483 “Weekly Statement of Contract Time Charges”.**

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Contract Time


First Notification – The date on which workers employed by the Contractor or a subcontractor begin performance of a construction operation called for by the contract, including aggregate source development or erection of a plant. 00110.10, 00130.90

Second Notification – The date on which required construction work, including Change Order Work and Extra Work, has been satisfactorily completed, except for minor corrective work, and the recording of daily time charges ceases. 00110.10, 00150.90, 00180.50(g)

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Contract Time

- **Second Notification**
 - Issue for each contract completion date (interim completion dates)
 - Do not issue Second Notification until the Contractor has completed all bid (pay) items and change order work required for the completion.

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Contract Time

- If the contract includes multiple completions, on the final Second Notification form be sure to complete the **“All claims for additional compensation must be submitted by _____”** statement.

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Contract Time

- **Third Notification**
Specified in Section 00150.90(b)
 - Issue when the Contractor has fulfilled all of its obligations such as corrective work, removal of all equipment and has provided all required certifications, bills, forms, warranties and other documents
 - If ODOT does not make final payment within 30 days after Third Notification, ODOT must pay interest on all unpaid monies.

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The following is an information packet on Contract Time.


The following slides are intended to assist in explaining how Events may Delay a Contract and how such Delays are compensated.

ODOT Construction Claims Engineer March '04

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ODOT Construction Contracts specify a time limit to complete the contract.


Typically this is by a Contract Completion Date (CCD).

If the contractor is granted a time extension, the new completion date becomes the Adjusted Contract Completion Date (ACCD).


If the contractor does not finish the contract work by the Contract Completion Date (or ACCD), ODOT charges Liquidated Damages to cover its administrative costs (overhead) for the extended period the project is continuing.

If ODOT delays the project beyond the CCD or ACCD, the Contractor often makes claim for Delay Damages; its costs for the extended period the project is continuing.

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Common Definitions:

- **Delay Damages** – can include direct costs, extended on-site overhead, extended Home Office Overhead. Can apply to segments of planned completion, delays to a legitimate Early Completion Schedule, delays beyond CCD or ACCD.
- **Liquidated Damages** – a contract specified amount intended to cover the owners extended overhead. Applies after the project extends past the CCD or ACCD.
- **Early Completion Schedule** – a schedule that represents the contractor's plan to complete the project work in less time than provided in the contract, thereby decreasing its on-site and home office overhead for the project. This savings is reflected in its bid.

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Common Definitions:

- **Critical Path:** Based on the Contractor's plan to accomplish the work (the Contractor's means and methods), the sequence of activities from the beginning to the end of the project that determines the minimum duration of the project. Critical Path activities have no Float.
- **Float:** The number of days an activity can be delayed without delaying the project.
- **Activity Duration:** The time it takes to complete an activity based on the Contractor's selected means and methods to accomplish the work.
- **Contemporaneous Schedule:** The Contractor's schedule that is in effect at the time in question. Most schedule specifications require the Contractor to "up-date" its schedule to reflect the current logic, actual dates of completed activities, and planned durations of future activities.

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Common Definitions:

- **Contractor Delay:** Delays that are the responsibility of the Contractor. Results in Liquidated Damages if extends the project past the CCD. This includes ALL DELAY except the following:
 - **Excusable Delay:** Delay from events that excuse the Contractor from performing within the contract period and justify a time extension. Generally events beyond the Contractor's control or normal ability to foresee. Results in Time Extension if delays project, Contractor absorbs all other ramifications resulting from the excusable delay event.
 - **Owner Delay (Unreasonable):** Delay due to acts or omissions of the owner or persons acting for the owner; owner caused. Results in Time Extension if delays completion, may result in paying delay damages.
 - **Compensable Delay:** See Owner Delay above.
 - **Concurrent Delay:** Delay that occurs when any combination of Contractor Delay, Excusable Delay, or Owner Caused Delay occur at the same time.

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Event

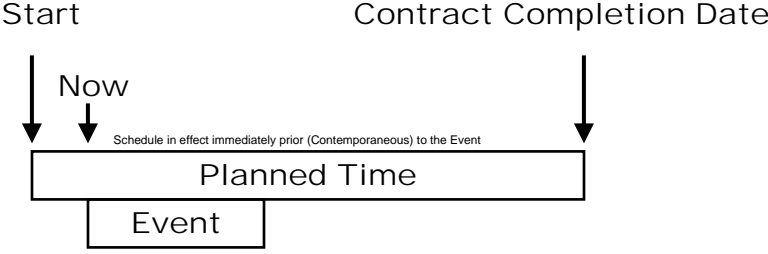
An Event occurs on a Contract that may or may not impact Contract Time. If Contract Time is impacted, it may be impacted in many ways.

The following discussion should assist you in this determination.

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Start Contract Completion Date




Is Event a Delay Event?

Does the Event impact the Critical Path and the Completion of the Contract?

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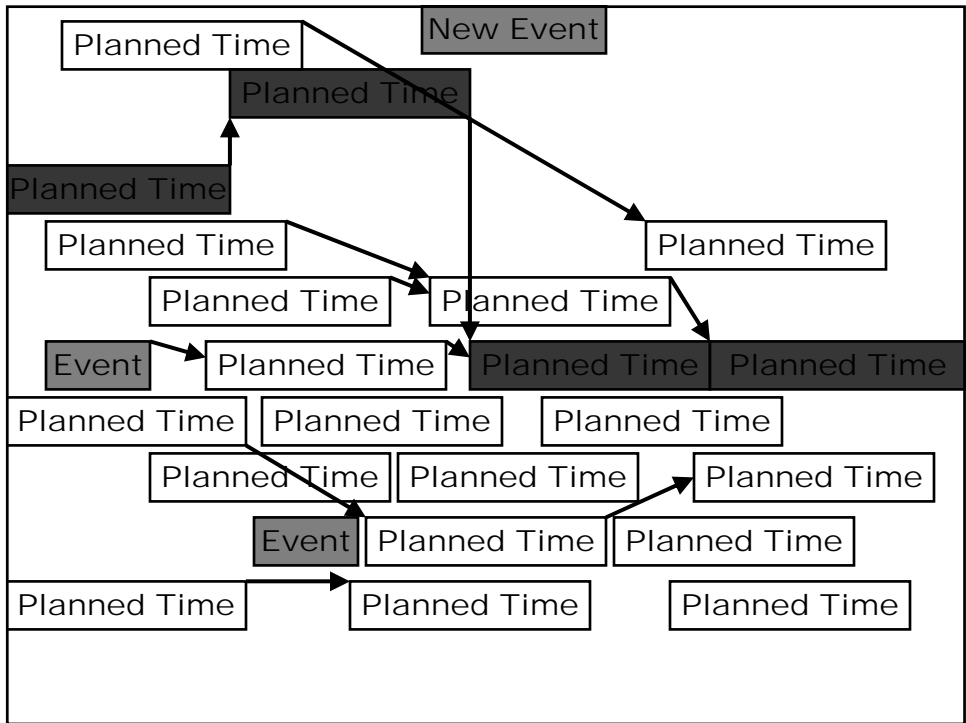
To determine if the Event is a Delay Event you must find the schedule in effect immediately prior (contemporaneous) to the Event and determine if the Event impacts the Critical Path.

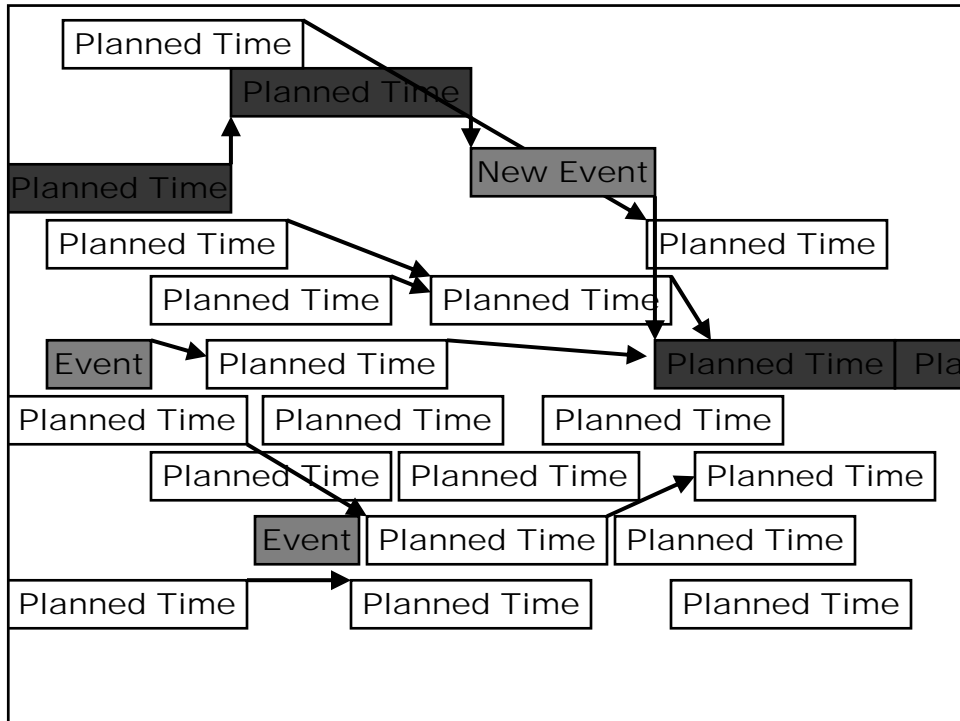
Does the Event simply reduce float on a scheduled item? No Delay Event.


Does the Event cause a scheduled item with float to become Critical and (previous) Critical items to now have float? Delay Event.

Does the Event cause a Delay to a scheduled Critical item without float? Delay Event.


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Start Contract Completion Date

Now

Schedule in effect immediately prior (Contemporaneous) to the Event



Planned Time

Event

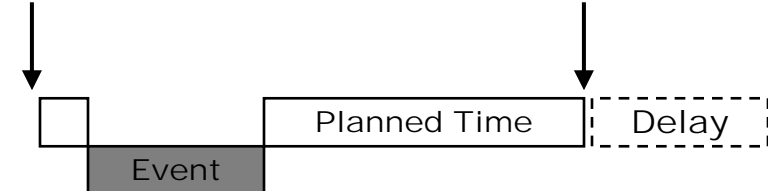
If the Event does not impact the Critical Path and the Completion it will not cause a Delay.

Contract Time and Delay Costs are not compensable without a Delay.

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Start Contract Completion Date



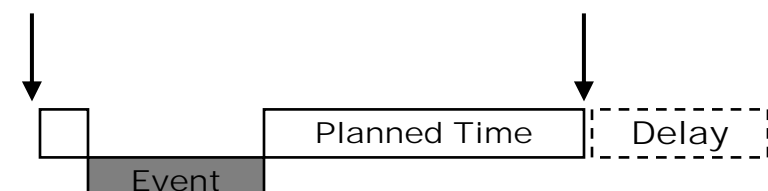
The diagram shows a horizontal timeline. On the left, a vertical arrow labeled 'Start' points to a small white box. To its right is a grey box labeled 'Event'. Further right is a larger white box labeled 'Planned Time'. To the right of the 'Planned Time' box is a dashed-line box labeled 'Delay'. A vertical arrow labeled 'Contract Completion Date' points to the end of the 'Planned Time' box.

If the Event impacts the Critical Path and the Completion it will cause a Delay.

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Start Contract Completion Date





The diagram shows a horizontal timeline. On the left, a vertical arrow labeled 'Start' points to a small white box. To its right is a grey box labeled 'Event'. Further right is a larger white box labeled 'Planned Time'. To the right of the 'Planned Time' box is a dashed-line box labeled 'Delay'. A vertical arrow labeled 'Contract Completion Date' points to the end of the 'Planned Time' box.

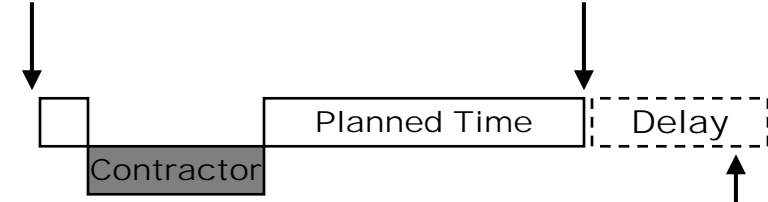
The Delay Event will be assigned to one of three sources of Delay:

- Contractor
- Excusable
- Owner

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Start
Contract Completion Date



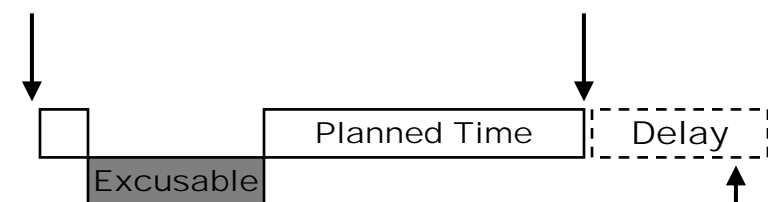
If the source of the Delay is the Contractor, the typical remedy of the delay is for the Owner to assess Liquidated Damages, or for the Contractor to accelerate to avoid Liquidated Damages.

Liquidated Damages

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Start
Contract Completion Date




If the source of the Delay is Excusable, the remedy of the delay is for the Owner to grant Contract Time and for the Contractor to absorb the Cost of the Delay.

Shared

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Start Contract Completion Date

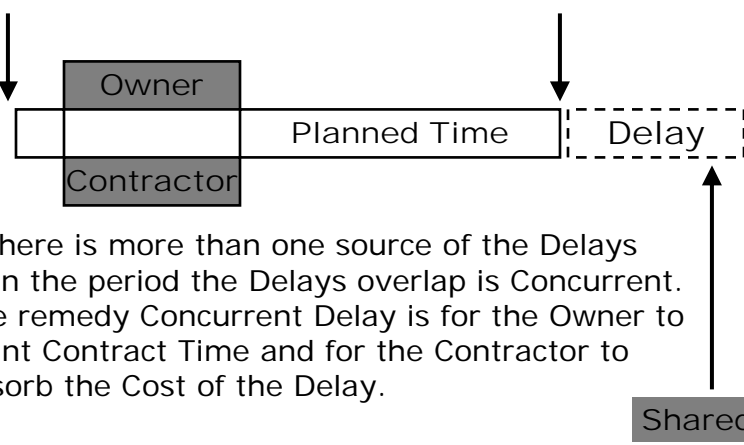


If more than one Event impacts the Critical Path at the same time and such Events would independently impact the Completion, the condition of Concurrent Delay may exist.

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Start Contract Completion Date

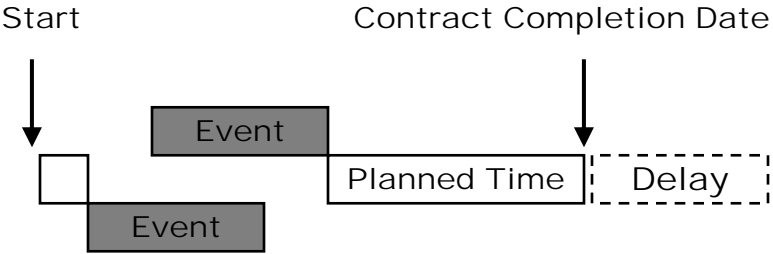


If there is more than one source of the Delays then the period the Delays overlap is Concurrent. The remedy Concurrent Delay is for the Owner to grant Contract Time and for the Contractor to absorb the Cost of the Delay.

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Start Contract Completion Date



Event



Event

Planned Time

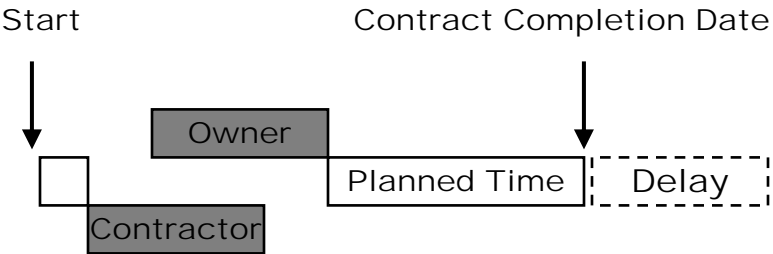
Delay

Events that impact the Critical Path may overlap and create various remedies.

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Start Contract Completion Date



Owner

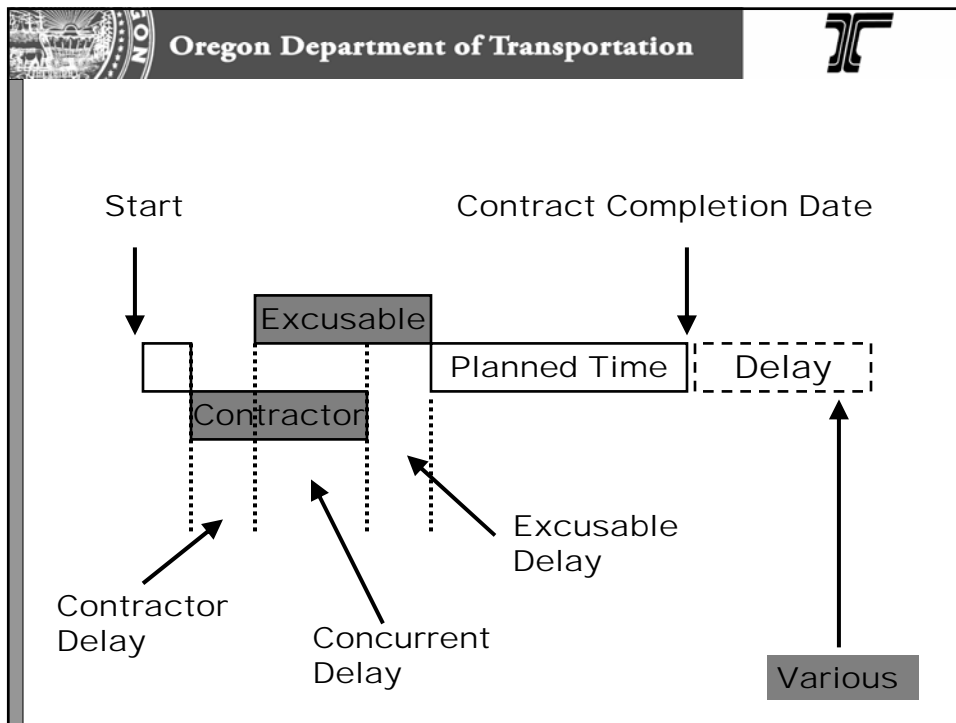
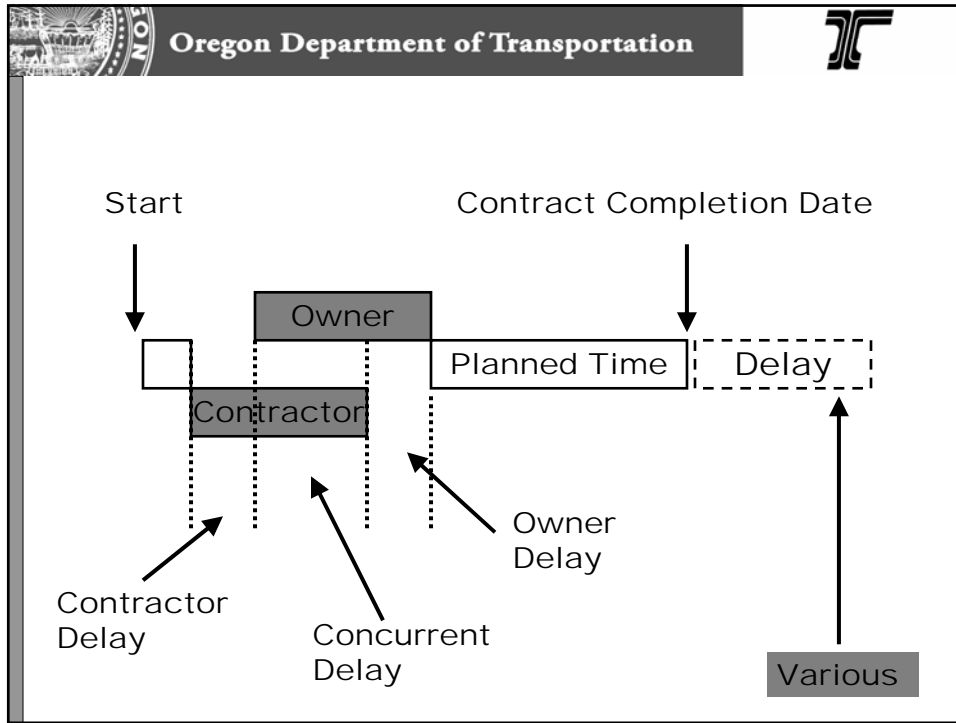
Contractor

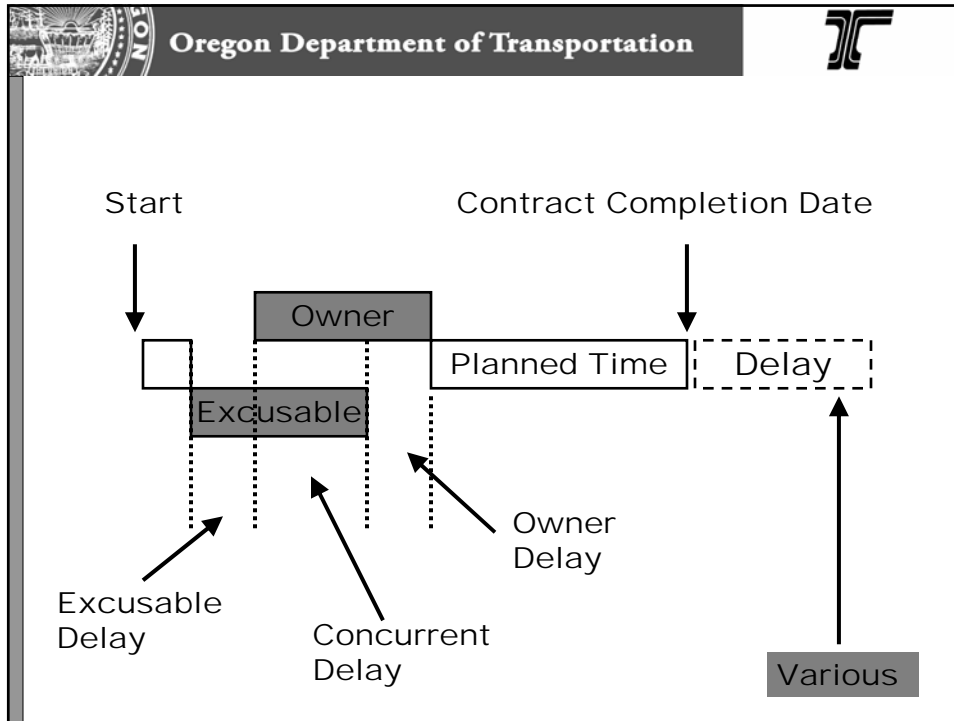
Planned Time

Delay


Concurrent Delay exists only if two or more delays are simultaneous, and from different sources.

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- Key Points**
- Time is Money
 - Critical Path
 - Delays
 - Weather – Excusable
 - Concurrent
 - Owner
 - Compensation / Acceleration
 - Contractor
 - Liquidated Damages
 - Authority to Grant Time



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Attention:

True or False


- If for any reason the Contractor fails to complete the project work on time the Contractor will be charged Liquidated Damages at the rate specified in Contract Specification Section 00180, usually noted in 00180.85(b)

Attention:

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Project Scheduling

- Contract Administration Role
- Critical Path Method (CPM) Schedules
- Schedule Purpose
- Overview of Current Contract Language
- Initial Schedule Review
- Contract Administration Observations

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Project Scheduling

- **Contract Administration Role**
 - Field Support
 - Staff
 - Duties
 - Software

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Project Scheduling


- **Critical Path Method (CPM) Schedules**

Critical Path Method (CPM) scheduling method uses activity duration and the relationships between activities to mathematically calculate a schedule for the entire project. CPM focuses your attention on the critical path of activities that affect the completion date for the project or an intermediate deadline. Usually one also calculates early dates, the earliest possible dates each activity can start and finish, and late dates, the latest possible dates each activity can start and finish without delaying the project finish or an intermediate deadline.


The critical path is the longest path of activities through your project. Its duration controls the duration of the entire project; any delay to any activity on the critical path delays the completion of the project.

Activities can appear critical without being on the critical path, if they are part of an open-ended chain.

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Project Scheduling

- **Schedule Purpose**


To assist the Contractor and the Engineer in planning, coordinating, documenting, and controlling the progress of the project. The schedule establishes completion dates and is used to analyze the impacts to the Contractor's schedule if work is added to the project. It is used to analyze claims for time and money. It provides information to the Project Manager that can be used to inform the public of traffic impacts.

A Construction Schedule can be compared to a flight plan. It must be comprehensive and realistic.

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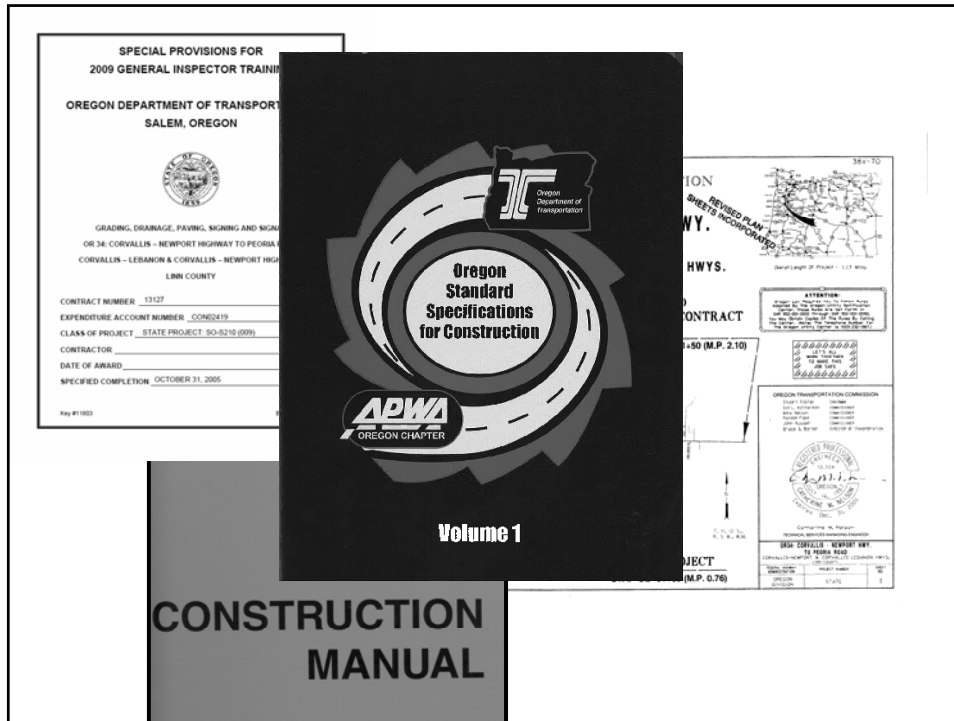
Project Scheduling


Overview of Current Contract Language

- 00180.41 substantially updated in 2008
- 2008 Boiler Plate Special Provisions have added:
 - Look Ahead project work schedules submitted weekly showing 3 weeks out.
 - Updates to type "B" schedule that include digital submittals.


http://www.oregon.gov/ODOT/HWY/SPECS/2008_special_provisions.shtml

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00180.41 Project Work Schedules - The Contractor shall submit a Project Work schedule meeting the requirements of this Subsection to the Engineer. The Project Work schedule is intended to identify the sequencing of activities and time required for prosecution of the Work. The schedule is used to plan, coordinate, and control the progress of construction. Therefore, the Project Work schedule shall provide for orderly, timely, and efficient prosecution of the Work, and shall contain sufficient detail to enable both the Contractor and the Engineer to plan, coordinate, analyze, document, and control their respective Contract responsibilities. Sufficient detail shall also include all required double shifts, overtime work, or combination of both necessary to complete Contract Work within the Contract Time.

Contractor's activity related to developing, furnishing, monitoring, and updating these required schedules is Incidental.

One of the following Type "A", "B", or "C" schedules will be required under the Contract. The type of schedule will be identified in the Special Provisions.


(a) Type "A" Schedule - When a Type "A" schedule is required, the Contractor shall do the following:

(1) Schedule -


Within seven Calendar Days after the preconstruction conference, the Engineer and the Contractor shall meet to review the Project Work schedule as submitted. The Engineer will review the schedule for compliance with all Contract Time limitations and other restraints. Review of this and subsequent schedules by the Engineer shall not relieve the Contractor of responsibility for timely and efficient execution of the Contract. Within 10 Calendar Days of this meeting, the Contractor shall resubmit to the Engineer four copies of the Project Work schedule, including required revisions.

(2) Review by the Engineer -

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(b) Type "B" Schedule - When a Type "B" Schedule is required, the Contractor shall do the following:

- (1) Initial Schedule**
- (2) Detailed Schedule**

The accepted Project schedule shall represent all Work, as well as the planned sequence and time for the Work. Review of this and subsequent schedules by the Engineer shall not relieve the Contractor of responsibility for timely and efficient execution of the Contract.


- (3) Review and Reporting** - The Project Work schedule may require revision as the Work progresses. Therefore, the Contractor shall monitor and when necessary revise the Project Work schedule as follows:
 - a. Review with the Engineer**

The Contractor shall develop detailed sub-networks to incorporate changes, Additional Work, and Extra Work into the Project Work schedule. Detailed sub-networks shall include all necessary activities and logic connectors to describe the Work and all restrictions on it. The restraints shall include those activities from the Project Work schedule that initiated the sub-network as well as those restrained by it.


 - b. Progress Report**

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(c) Type "C" Schedule - When a Type "C" Schedule is required, the Contractor shall do the following:

- (1) Initial Schedule** - 10 Calendar Days prior to the preconstruction conference, the Contractor shall provide to the Engineer one digital copy and four paper copies of a time-scaled bar chart Project Work schedule. The digital copy shall be compatible with MS Project 2003, Primavera P3, SureTrak Project Manager 3.0, or another scheduling program approved by the Engineer. The initial schedule shall show:
- (2) Detailed Project Work Schedule** - In addition to the above requirements, and within 30 Calendar Days after First Notification, the Contractor shall provide the Engineer one digital copy and four paper copies of a detailed time-scaled critical path method (CPM) network Project Work schedule and computer analysis printout, both clearly indicating the critical path. The digital copy shall be compatible with MS Project 2003, Primavera P3, SureTrak Project Manager 3.0, or another scheduling program approved by the Engineer. The first submitted detailed time-scaled critical path method (CPM) network Project Work schedule shall also contain a listing of the quantity of Work for each activity, when appropriate, in common units of measure.


Within 14 Calendar Days after submission of the detailed time-scaled critical path method (CPM) network Project Work schedule, the Engineer and the Contractor shall meet to review the detailed time-scaled critical path method (CPM) network Project Work schedule as submitted. Within seven Calendar Days of the meeting, the Contractor shall resubmit to the Engineer one digital and four paper copies of the detailed time-scaled critical path method (CPM) network Project Work schedule, including required revisions.

This first accepted detailed time-scaled critical path method (CPM) network Project Work schedule, also called the accepted Project Work schedule, shall represent all Work, as well as the planned sequence and time for the Work. Review and acceptance of any Project Work schedules and Project narratives by the Engineer shall not relieve the Contractor of responsibility for timely and efficient execution of the Contract.


- (3) Project Narrative** -
 - All near critical activities defined as those with less than 30 days of float.
 - All subcontractor activities that are critical, near critical, and those that are greater than two weeks in duration.
 - Labor resourcing, by stage and phase, to include the number of crews, average crew size and planned night/weekend shifts including that of subcontractors.
 - Equipment allocation, by stage and phase to include mobilization, demobilization and planned activities including that of subcontractors.

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(4) Review and Reporting –

a. Review with the Engineer -

b. Progress Report -

(d) Substitution of Schedules - When a Type "A" schedule is required, a Type "B" or Type "C" schedule may be substituted for the Type "A" schedule.

When a Type "B" schedule is required, a Type "C" schedule may be substituted for the Type "B" schedule.


(e) Specified Contract Time Not Superseded by Schedule Revisions - The completion dates in any Project Work schedule and any revised or updated Project Work schedules shall be within the Contract Time(s) specified for the Project, or within adjusted Contract Times approved according to 00180.80(c). Acceptance of any Project Work schedule or any revised or updated Project Work schedules shall not constitute approval of any completion dates that exceed such Contract Time(s). If the Contractor believes that additional Contract Time is due, the Contractor shall submit, with a revised Project Work schedule, a request for adjustment of Contract Time according to 00180.80(c). A request for an adjustment of Contract Time will be evaluated using the most recently accepted Project Work schedule.

(f) Float Time - Float time shown on the Project Work schedule, including any time between a Contractor's scheduled completion date and the specified Contract Time(s), does not exist for the exclusive use of either party to the Contract and belongs to the Project.


(g) Schedules Do Not Constitute Notice - Submittal of a Project Work schedule, with supporting Project narrative, does not constitute or substitute for any notice the Contractor is required under the terms of the Contract to give the Agency.

(h) Failure to Provide Schedule - The Project Work schedule is essential to the Agency. The Contractor's failure to provide the schedule, schedule information, progress reports, Project narratives, or schedule updates when required will be cause to suspend the Work, or to withhold Contract payments as necessary to protect the Agency, until the Contractor provides the required information to the Engineer.

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Project Scheduling


Remember that a project schedule is very important in helping the Project Manager to, among other things:

- Plan the work of the Project office
- Assure that the Contractor understands the limitations on its work that are imposed by contract or local ordinances
- Assure that work is proceeding on schedule
- Be able to tell the local residents, businesses, and media what the planned schedule and completion should be
- Be able to analyze delays to the project work and to possibly mitigate delays

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Project Scheduling

- **Initial Schedule Review**
 - It is important that special attention is paid to the reasonableness and attainability of the schedule.
 - We do not “*approve*” a Contractor’s schedule we “*acknowledge*” or “*acknowledge with comments*”. This is not approval of means and methods but a check to see if the Contractor has incorporated all of the Contract requirements in their schedule.

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Project Scheduling

- During the initial schedule review it is very important to review the terms of the Contract, and comment if the schedule is in conflict with the Contract. Some items to review include:
 - In-water work periods
 - Blasting and noise time restrictions
 - Traffic staging
 - Utility requirements
 - Top lift paving dates
 - Nesting times with resulting restrictions
 - Weather condition work restrictions
 - Realistic completion dates for Contractor acceleration
 - Adequate time for acquisition of permits
 - Concrete cure time requirements
 - Shop drawing and Railroad approvals
 - Specific technical time requirements from the specifications (paint dry time)

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Project Scheduling

- **Contract Administration Observations**


Where is the evidence to answer these questions?

 - Who was the superintendent?
 - What exact day did the earthwork start and stop?
 - What day (or year) was that meeting that was held?
 - What was the Contractors plan before the work began? We now have the But-For (Owner delay) schedule.
 - When the crew left (temporarily) for the other project what specific work were they doing, was this work critical path work?
 - When direction was given to not proceed in that manner, who was it specifically given to?
 - Where is the photograph? Is it the right one?
 - Where specifically did this occur?
 - Which specifications were used to come to this conclusion? Or, Why did it seem correct to follow this course?
 - Who else was this matter discussed with, were they a designer, a laborer, an Area Manager?

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Project Scheduling Concepts

- Flight Plan
- Built project on paper
- See problems coming, Gorilla, Puppy or Avalanche principle
- Planning/ Forecasting
- Decisions of how best to add work

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Project Scheduling


“As Built Schedule” Review

- Inspectors Daily Reports
- Critical or near critical path
- Review contractors progress report
- Include added or deleted work
- Changing completion dates
- Update schedule, 2 weeks off or near end of project

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Project Scheduling


Scheduling Experts

- Large complex project
- Hundreds of schedule activities
- Risk to Owner if schedule not met
- Evaluate time impacts

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Project Scheduling Inspector Expectations

- **Track “Contractor Activity Codes” (CAC)**
 - Start, Finish dates
 - Delays
 - Quantities, production rates
- **Keep Project Manager Informed**

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Project Scheduling Inspector Tips

- Daily Report
- Know project critical path
- Understand schedule before you walk on project
- Avoid adding work
 - Contractor lose control of schedule
 - Owner becomes responsible
- Multiple Inspectors, separate daily reports

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- Key Points
 - Flight Plan
 - Contract Restrictions
 - In Water Work
 - Nesting
 - Local Events
 - Critical Path
 - Review and comment, do not approve
 - Document Progress in relation to plan

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Attention:

When reviewing a Contractor's schedule, the Project Manager's office should consider:


- A) In water work periods
- B) Production rates
- C) Noise restrictions
- D) Logic problems
- E) All of the above

Attention:

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Attention:

Contract Time delays:


- A) attributable to ODOT are excusable
- B) granted for unpredictable weather are compensable
- C) are considered concurrent if the Prime Contractor and Sub-Contractor both have delays to the Critical Path work at the same time
- D) may result in liquidated damages
- E) None of the above

Attention:

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Attention:

True or False

- The Contractor's schedule should be reviewed around the time of the Pre-Construction Conference and either accepted or rejected by the Project Manager.

Attention:

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