

# **Change Order Nuts & Bolts**

**Presenters:** 



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This presentation is for informational purposes only and is not intended to be legal advice nor does it create an attorney-client relationship.

What is a Change Order?

 A change order is a written agreement between the owner, contractor and architect upon a change in the work and any appropriate adjustment in the contract sum or contract time.<sup>1</sup>

Increase, decrease or no cost or time impact

 Construction Change Order Claims, Construction Law Library, Aspen Law & Business, Cushman & Butler, Pg. 5.,1994



### "Extra Work"

- In addition to work required by the contract; or caused by conditions outside the contractor's contract
- Contract governs what constitutes "extras" and how contractor will be paid
- If contract silent on "extras"
  - Contractor entitled to reasonable value of work

- Know Your Contract
  - Change order procedures
  - Notice requirements
  - Scope of work
- Common Elements of a Change Order
  - Description of requested changes
  - Itemization of costs
  - Contractual basis for requested change



### Common causes of change orders

- Owner requested changes
- Contractor suggested changes
  - Value engineering
  - Product substitutions
  - Means & methods
- Design error(s) / Defective specifications
- Differing site conditions
- Owner furnished item delay
- Finalization of project allowances
  - An allowance is an amount specified, or prepared by contractor, within the construction contract for work which is reasonably anticipated but not fully defined at the time of contract.

# **Example Change Order - AIA**

### AIA<sup>°</sup> Document G701<sup>™</sup> – 2017

#### Change Order

PROJECT: (name and address)	CONTRACT INFORMATION: Contract For: Date:	CHANGE ORDER INFORMATION: Change Order Number: Date:	
OWNER: (name and address)	ARCHITECT: (name and address)	CONTRACTOR: (name and address)	

#### THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

The original (Contract Sum) (Guaranteed Maximum Price) was	\$ 		
The net change by previously authorized Change Orders	\$ 		
The (Contract Sum) (Guaranteed Maximum Price) prior to this Change Order was	\$ 		
The (Contract Sum) (Guaranteed Maximum Price) will be (increased) (decreased) (unchanged) by this Change Order in the amount of	\$ 		
The new (Contract Sum) (Guaranteed Maximum Price), including this Change Order, will be	\$		
The Contract Time will be (increased) (decreased) (unchanged) by		(	) days.

The new date of Substantial Completion will be NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the

Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

#### NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

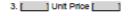
ARCHITECT (Firm name)	CONTRACTOR (Firm name)	OWNER (Firm name)
SIGNATURE	SIGNATURE	SIGNATURE
PRINTED NAME AND TITLE	PRINTED NAME AND TITLE	PRINTED NAME AND TITLE
DATE	DATE	DATE

### **Example Change Order - ConsensusDocs**

	ConsensusDocs <sup>®</sup> 202
	CHANGE ORDER
OWNER:	
CONTRACTOR:	
Project []	
Contract Date:	
Change Order No.	
This Change Order is made th	lis [] day of [], []
By [ (Owner), and	
[] (Contractor)	
for the following changes in th	e Work:

The Owner agrees to pay for all changes in the Work performed by the Contractor under this Change Order according to the terms of the Agreement. The amount paid by the Owner shall be full compensation for all Work requested and for all effects of this document on the Work. The change, if any, in the Contract Price shall be computed according to one of the following methods.

	_ no onlinge
2. [	] Costs Plus a Fee []



1 I No Change

4. [\_\_\_] Lump Sum of \$ [\_\_\_]

Unless Item 1 or 4 is marked, the Contractor shall submit promptly to Owner such itemized labor and material breakdowns as Owner may require for Work performed or deleted from the Agreement by this Change Order. The Contractor shall include the cost of such change in its next application for payment in a separate line item.

The change, if any, in the Contract Time resulting from the Work requested by the Change Order shall be determined according to the terms of the Agreement and allows for \_\_\_\_\_ an additional \_\_\_\_\_ deletion of [\_\_\_\_] ([\_\_]) Days.

CONTRACTOR:	
-------------	--

Ву:		
Title: []	Date: []	
OWNER: []		
By:		
Title: []	Date:	
END OF DOCUMENT		



### **Example Change Order - ConsensusDocs**

#### **Change Order**

No. [number]

Date of Issuance: [month, day], 2014		Effective Date:	[month, day], 2014
Project: 2014 Road Improvement Own	ner: Villa		Owner's Contract No.: 1306
Projects			
Contract: 2014 Road Improvement Project	ts		Date of Contract: [month, day], 2014
Contractor: [contractor]			Engineer's Project No.: 1306
The Contract Documents are modified a	as follows	upon execution of thi	is Change Order
Description:		upon caccation of the	Senange order.
Attachments (list documents supporting	g change):	:	
	,		
CHANGE IN CONTRACT PRIC	E:	CH	ANGE IN CONTRACT TIMES:
Driginal Contract Price:		-	mes: 🗌 Working days 🗌 Calendar days
			etion (days or date):
\$		Ready for final pay	yment (days or date):
Increase] [Decrease] from previously app Change Orders Noto No:	roved	[Increase] [Decrease No to No	<ul> <li>from previously approved Change Orders</li> <li>:</li> </ul>
		Substantial comple	etion (days):
\$		Ready for final pay	yment (days):
Contract Price prior to this Change Order:		-	r to this Change Order:
<u>,</u>		-	etion (days or date):
\$		Ready for final pay	yment (days or date):
Increase] [Decrease] of this Change Orde	r:	• ••	e] of this Change Order:
\$		-	etion (days or date): yment (days or date):
Contract Price incorporating this Change (	Order:		all approved Change Orders:
			etion (days or date):
\$			yment (days or date):
RECOMMENDED:	ACCE	PTED:	ACCEPTED:
Ву:	By:		By:
Engineer (Authorized Signature)	O	wner (Authorized Sign	ature) Contractor (Authorized
Date: <mark>[month, day],</mark> 2014		[month, day], 2014	Date: [month, day], 2014
Approved by Funding Agency (if applicab	le):		
			Date:
Prepared by the Engineers Joint Co		JCDC C-941 Change Order neuts Committee and endorse	d by the Construction Specifications Institute.
		Page 1 of 2	- · ·

### The Good

ROJECT:	CHANGE ORDER No.:		07-010-1
(	DATE:		12/3/21
	ARCHITECT'S PROJECT N	o.:	212854.0
	CONTRACT DATE:		1/31/201
The Contract is chang	jed as follows:		
Change Estimate #	Description		Amount
018	RFI #35 lssues with design for water room at roof	\$	21,972.00
066	RFI #78 Additional brick demo, framing, and structural steel for South façade brick infill	\$	2,595.0
133	Install clips throughout ceiling w here concrete beams are cracking	\$	1,394.0
220	RFI #163 Install firestone tread in lieu of break metal at terrace roof curb for EPDM roofing system	\$	1,193.0
231	RFI #172 Add flag pole holders to w indow s	\$	3,325.0
242	RFI#183 Delete basement bathroom partitions	\$	(6,045.00
243	RFI#184 Frame shaft wall around horizontal duct at 1st floor bathrooms	\$	2,317.0
248	Proposal Request #25 Stop install of main ductw ork and delete air test and balance from core and shell	d \$ (4,647.0	
251	Proposal Request #24 Exterior vestibule changes to ceilings	\$	20,608.0
256	Proposal Request #26 Install dimising w all at bank	\$	27,590.0
257	RFI #248 RTU electrical connection: add additional rated fusible disconnect sw itch	\$	3,163.0
262	Provide and install VCT in 1st Floor corridor including floor prep at exposed rebar	\$	4,030.0
	Total	\$	77,495.00
Not valid until signed b	by the Owner, Architect and Contractor.		
he original (Contract Sur	n) (Guaranteed Maximum Price) w as	\$	9,315,442.00
let change by previously	authorized Change Orders	\$	3,169,265.43
he (Contract Sum) (Gua	ranteed Maximum Price) prior to this Change Order was	\$	12,484,707.43
he (Contract Sum) (Gua	ranteed Maximum Price) will be <u>(increased)</u> (decreased) (unchanged) by this		
Change Order in the amou	unt of	. \$	77,495.0
The new (Contract Sum)	(Guaranteed Maximum Price) including this Change Order will be	\$	12,562,202.43
The Contract time will be	(increased) (decreased) (unchanged) by	(	0)days.
The date of Substantial C	ompletion as of the date of this Change Order therefore is		9-Feb-1

NOTE: This summary does not reflect changes in Contract Sum, Contract Time, or Guaranteed Maximum Price which have been authorized by Construction Change Directive.

ARCHITECT	CONTRACTOR	OWNER
Date	Date	Date

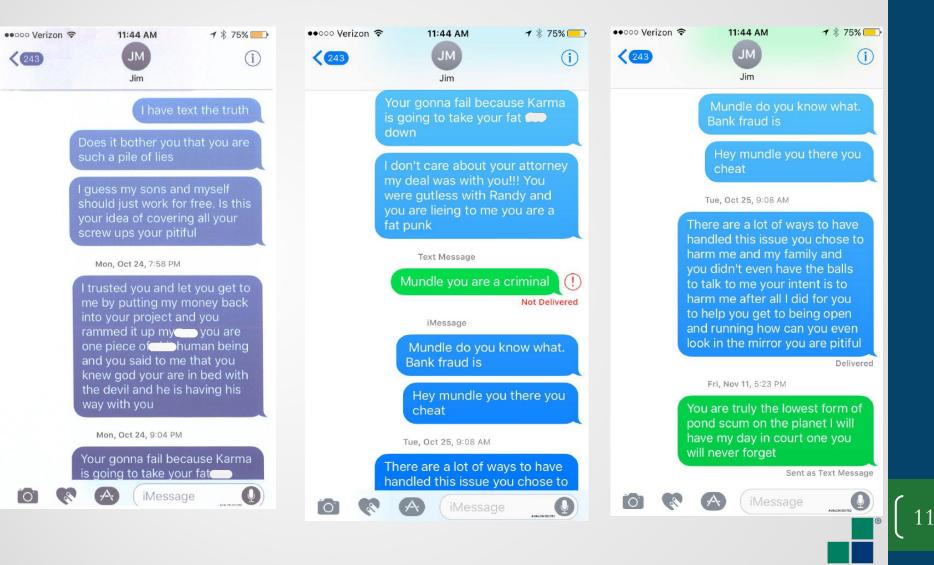


### The Bad

EX	HIBIT X	The Contract Price prior to this Change Order w	vas\$32,763,306.51
	EL QUANTITY GROWTH HANGE ORDER	The Contract Price will be increased by this Change Order in the amount of	\$ 4,100,000
PROJECT NAME:	DATE OF CONTRACT: 3/13/2015	The new Contract Price including this Change C Adjustment to dates in the Required Contrac	Order will be \$ 36,863,306.51
CONTRACTOR:	CHANGE ORDER NUMBER: CO-151231-AD01-IIC-01-Rev. 7	The following dates are modified (list all dates )	
OWNER	DATE OF CHANGE ORDER: April 7, 2016 (Rev. 7)	The Required Schedule Milestone Date(s) will b below) Days.	e (increased)(decreased)(unchanged) by (see
Provent to Article 0.0 of the Concern Condi	tions for Contracts, the scope of Work in the above	N/A	
	ollows: (attach additional documentation if necessary)	Required Schedule Milestone Dates for Substant changed as a result of the increase in Structural S Order.	tial Completion and for Final Completion <u>are not</u> Steel quantities noted on this Mutual Change
2016 where both parties agreed to a lump sum s	e discussions and agreement reached on April 7, eetlement of \$4,100,000 to cover the cost for the	(attach additional documentation if necessary)	
increase in structural steel quantities based on d including February 22, 2016.	rawings and documentation issued up to and	Impact to other criteria (insert N/A if no changes necessary): N/A	or impact; attach additional clocumentation if
Structural Steel Quantity Growth:			d for this Change Order includes full compensation for
The quantity of structural steel is greater than th	e original quantity provided in Exhibit E-1 (1,808	all of Contractor's direct, indirect and delay-rela including other agreed structural steel Change Or	ated costs relating to the structural steel Contract Work rders to date.
tons) which was based on the quantities, documentation and drawings provided with the Contract			
Documents. The revised drawings and docume require a total of 2,105.47 tons of structural stee	ntation issued up to and including February 22, 2016 l; the variance is a total of 297.47 tons	change(s) to the Work shall become a valid and	er by Contractor and Owner, the above-referenced binding part of the original Contract without exception Mutual Change Order. Except as modified by this and
The Parties have agreed to adjust the Contra	ct Price by a lump sum price of \$4,100,000	any previously issued Mutual Change Orders, remain in full force and effect. This Change Or	all other terms and conditions of the Contract shall der is executed by each of the Parties' duly authorized
Parties agree that this lump sum price includes a		representatives.	
quantity growth, delays, schedule delays, disrup		, L	
structural steel as shown on drawings issued up	to and including February 22, 2106.	CONTRACTORS, INC.	
Adjustment to Contract Price:		Name	Name U y Wa-
The original Contract Price was		Title 4/11/16	Title 4/19/16
Net change by previously authorized Change Or	ders (#)\$ -236,693.49	Date of Signing	Date of Signing
	ge 1 EEL CHANGE ORDER		2 2 EL CHANGE ORDER

 $\left(\begin{array}{c}10\end{array}\right)$ 

# The Ugly



### Change Order vs. Construction Change Directive

Change order	CCD
Owner/Contractor requested	Direction – not a request for additional work
Amendment to the contract by mutual agreement (owner/architect/contractor)	Unilateral change or disputed change
Adjustment to contract price or time agreed <b>before work is</b> <b>performed</b>	Work performed and costs or contract time adjustment TBD usually <i>after the work is</i> <i>performed</i>

CEMA

### **Change Order Basics – Proving Extras**

- A contractor seeking to receive extras must demonstrate:
  - Work was outside the scope of its contract;
  - Extra item were ordered by owner;
  - Owner agreed to pay extra (words or conduct)
  - Extras were not furnished voluntarily by contractor;
  - Extras not necessary due to any fault of the contractor.
- Standard of proof
  - Clear and convincing



### **Change Order Basics – Proving Extras**

#### Example Scenario:

- Contract for construction of a house
- Contract scope includes "decorating" of walls with color choices
- During construction owner asks for wallpaper
- Contractor provides owner with wallpaper options and the parties discuss the costs of wallpaper, but not whether it is included in the contract or not
- Contractor installs the wallpaper selected by owner
- Owner disputes this was extra since it falls under "decorating" scope

#### Q: Is contractor entitled to extras for installing wallpaper?

A: NO. Howard Riley Homes, Inc. v. Wenzel, 21 III. App. 3d 1029, 316 N.E.2d 185 (4th Dist. 1974)

- Contractor was required to notify the owner that this work was extra prior to performing work.
- Contractor installed wallpaper intending to charge extra but never communicated that intent to the owner
- Owner must be given opportunity to consent and decide whether to incur that extra liability



**Change Order Basics – Writing Requirement** 

- Almost all construction contracts require that change orders be in writing
- Can you still recover for work performed without a written change order?





### **Change Order Basics – Waiver**

### Waiver of writing requirement

- Parties can waive writing requirement orally or by conduct
  - Varies by jurisdiction
  - Pattern of oral directives or conduct vs. isolated act
  - Payment issued for the oral change in work
- General public policy holds that owner should not avoid an obligation to pay for changed work that it offered or knew about merely because written formalities not followed

### **Change Order Basics – Waiver**

### Example:

- Contractor's work includes stabilizing soil to required compaction levels before building
- After work begins, the parties discover excess moisture levels causing compaction issues
- Architect orally directs the use of lime as drying agent
- During discussion, Architect disputes this is an extra and refuses to authorize a change order
- Contractor proceeds with work and sues for unpaid "extras"
- Contract contains a writing requirement that "no claim for extra work or materials will be allowed unless ordered in writing by the owner or architect"

Q: Did the architect waive the writing requirement?

A: No.

*R&R Const. Co. v. Junior College Dist. No. 529, Olney,* 55 Ill. App. 3d 115 (1977)

Architect's conduct did not waive writing requirement since he made clear it was not an extra and refused to issue a CO

This was not extra work since labor and materials that are "incidental and necessary" to complete the work are not regarded as extras



### **Change Order Basics – Cardinal Change**

- Changes so excessive it constitutes a breach of the contract
- Drastically require contractor to perform work materially difference from that originally bargained for
  - Examples of cardinal changes
    - Changing the backfilling method on a civil works project
    - Addition of a hospital wing expanding construction costs by a third
    - Substantial change in quantity of materials
    - Changing the method or schedule of payment exposing contractor to risk
- Remedy
  - Voids the contract
  - Contractor not obligated to continue performance
  - May seek recovery for its total costs

### **Change Order Basics – Takeaways**

#### Do not stop working

- Contracts generally require contractor to proceed with work pending resolution of disputes over costs/time
- Refusal to perform may be a breach
- Give notice immediately
  - contractor should give notice to owner if it deems any set of circumstances call for extra work
- Document changes
  - If no change order is issued before contractor directed to proceed, document all communications and directives provided

- Step 1: Review Notice Provisions
- Step 2: Define the Nature of the Claim
- Step 3: Select a Method for Proving Delay
- Step 4: Prove Entitlement
- Step 5: Select a Method for Proving Damages
- Step 6: Quantifying Damages
- Step 7: Preparing Exhibits
- Step 8: Preparing Damage Summary Sheet
- Step 9: Organizing the Claim
- Step 10: Select Dispute Resolution Forum

Step 1: Review Notice Provisions

- Review the contract documents to identify the notice provisions. For instance, AIA contract forms require a 14 day notice from the event or recognition of the event.
- What is constructive notice?
  - The Owner knew, or should have known, of a particular issue.
  - May include verbal notices, discussions, email, meeting minutes, etc.
  - Owner has not been prejudiced by lack of notice.



Meeting Date: February 27, 2008	Project: <u>Steel Buildi</u>	ng
Project No.: <u>07-010</u>	Progress Meeting No.:	08
Attendees: Todd Piccone	Ema Rankin	Chuck Furlano
Maria Cole	Will Gillis	Bill Newell

Distribution: Same as Above

			Last
Item	Responsibility	Due Date	Modified
<ol> <li>Field Observation- Review Attached RFI Log         <ul> <li>Regarding RFI #20 MWCC will resend RFI with loads from OTIS and proposed tube steel configuration.</li> <li>Regarding RFI #12 MWCC will send RFI with drawings from in house Engineer.</li> <li>Upcoming RFIs Include: Procedure for floor leveling with mix design</li> </ul> </li> </ol>	MWCC klipp	Weekly	02/20/2008
2. Review Submittals			
<ul> <li>MWCC to set up meeting with Interior Resource Group for Flooring/Countertops Submittal for Review</li> <li>MWCC to set up meeting with Terracotta Installer for Submittal Review</li> <li>In the future the submittal log will be printed as outstanding items only</li> <li>Upcoming Submittals include: Mechanical, Electrical, Roof, and Structural Steel</li> </ul>	MWCC klipp	Weekly	02/20/2008
<ol> <li>Review of Overall Construction Schedule- Review Attached 3 Week Schedule         <ul> <li>Need 2<sup>nd</sup>-4<sup>th</sup> Floor Clearance from Boulder Environmental.</li> <li>Need dates for decision on Terrace to proceed on remaining tenant finish items</li> <li>MWCC will have Kumar look at Elevator Pit Rebar and Monroe Newell will also send a Field Report of what they looked at yesterday.</li> <li>MWCC will begin to touch on GMP Schedule during this part of OAC Meeting</li> </ul> </li> </ol>	MWCC	Weekly	02/20/2008
<ul> <li>4. Potential Problems/Field Conflicts <ul> <li>MWCC continues to work on the issue of recycling of old windows</li> <li>Project Team to field verify a couple of measurements for potential 3 foot bust on roof dimension which could affect the elevator and RTU location. MWCC to start terrace work in approximately two weeks.</li> </ul></li></ul>	ALL	Weekly	02/20/2008
5. Review Change Estimate Log Once RFI answers and other items are in MWCC will have all CE pricing finalized	ALL	Weekly	02/20/2008

CFMA

### **Meeting Minutes**

-	т 7		ME	ETING MINUTES No. OAC51
Eng	lewood, CO 80112	Phone: (303) 930-9000 Fax: (303) 930-9001		
PROJECT SUBJECT:	TITLE:		ETING DATE: 1 EATION: I F	
ITEM	DESCRIPTION	STATUS	STARTED DUE	BALL IN COURT
<u>SCHEDULE</u>				
51-02	WEEKLY SCHEDULE REVIEW Blynn reviewed the five week look ahead schedule with the team. ASI-015 was issued on Monday the 11th. The electrician was able to start work on the 12th. The project will be delayed by 7 calendar (5 working days) Days Ahead/Behind Schedule: The revised schedule shows a finish date of March 25th.	CLO	11/12/2013	DEN - BK
BUDGET				
20-03	SECTION 3 REPORTING (Items removed for clarity - see previous minutes for more details) 2013.08.20 and their subcontractors have hired 67 craft for this project.	OLD	3/25/2013	DEN - SA

CFMA

### Step 2: Define the Nature of the Claim

- Access to the project site
- Right of way
- Utility relocation
- Unidentified utilities
- Differing site conditions
- Relocation of tenants
- Approvals from authorities
- Payment delays
- Design defects
- Defective specifications
- Tardy shop drawing processing
- Inspection delays
- Unavoidable calamities
- Owner interference

- Failure to coordinate
- Unusual weather
- Labor disputes
- Acts of God
- Delays in transportation
- Governmental acts
- Delayed NTP / contract award
- Inappropriate stop work orders
- Owner furnished items
- Over-inspection
- Constructive changes

Step 3: Select a Method for Proving Delay

- Impacted As-Planned Schedule
- Time-Impact Analysis
- Windows Analysis
- Collapsed or "But-For" As-Built Schedule
- As-Planned vs. As-Built Comparisons



### Step 4: Prove Entitlement

- Entitlement: the fact of having a right to something
  - ...proving that you are owed a change order
- Prepare a narrative proving the entitlement of each claim.
  - Cite the contract
  - Cite the basis of the issue/change
    - Owner Change
    - Plan Revision
    - RFI Response
    - ASI, etc.



Step 5: Select a Method for Proving Damages

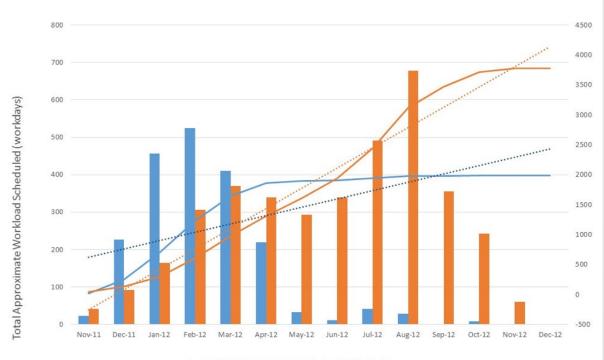
- Actual Cost Method
- Estimated Cost Method
- Total Cost Method
- Modified Total Cost Method
- Measured Mile Method

### Step 6: Quantifying Damages

- General Conditions
- Home Office Overhead
- Idle Equipment
- Lost Productivity
- Material Escalation
- Labor Escalation
- Subcontractor Escalation
- Cost of Additional Work
- Interest / Lost Profits
- Attorney Fees
- Cost of Claim Preparation
- Bond Fee and Insurance Premium

### Step 7: Preparing Exhibits

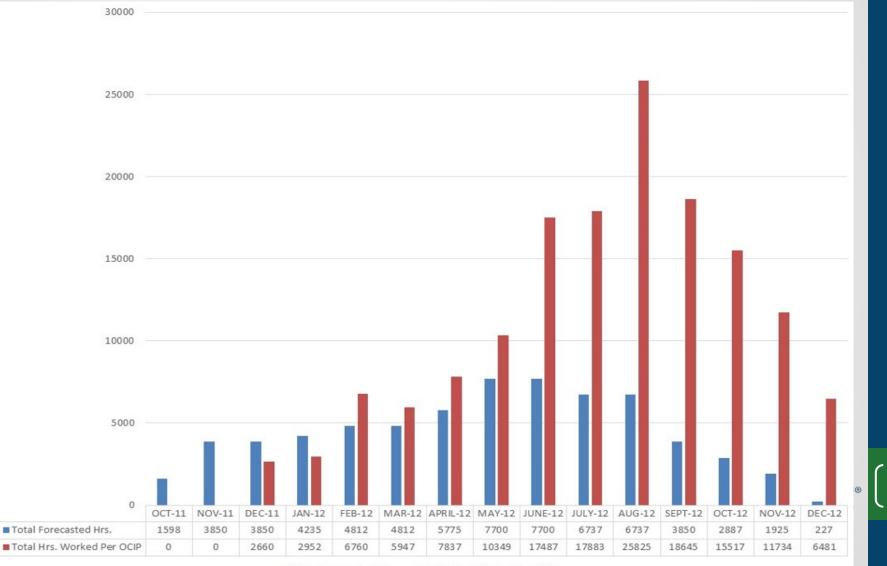
 Create at least one graphic to clearly illustrate each damage component and delay component.



Total Workload Scheduled (workdays) per Baseline Schedule Total Workload Scheduled (workdays) per the 2013 WW02 schedule Cumulative Workload Scheduled (workdays) per Baseline Schedule Cumulative Workload Scheduled (workdays) per the 2013 WW02 schedule



### Actual vs. Planned Labor Hours



Total Forecasted Hrs. Total Hrs. \

Total Hrs. Worked Per OCIP

Step 8: Preparing Damage Summary Sheet

Prepare a one page Damage Summary Sheet with the following columns:

A	В	C Exhibit	D	E
Item	Claim Analysis	No.	Itemized Cost	Subtotal
1.) General Conditions	Modified Total Cost	I	654,554.00	654,554.00



- Step 9: Organizing the Claim
  - Section 1: Executive Summary
  - Section 2: Documents Reviewed
  - Section 3: Background
  - Section 4: Damage Summary
  - Section 5: Entitlement
  - Section 6: Monetary Damages
  - Section 7: Schedule Impacts
  - Section 8: Conclusions
  - Section 9: Exhibits & Timeline
  - Section 10: Resume & Rate



Step 10: Select Dispute Resolution Forum

- If the claim cannot be resolved using direct negotiation, select one of the following dispute resolution forms (if not prescribed in contract):
  - Architect or Engineer or Engineers Ruling
  - Mediation
  - Arbitration (binding or non-binding)
  - Litigation





# **Questions?**



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