



Safety - Starts with Self Wellness Tips



• Exercise. Aim for at least 30 minutes of exercise daily



Eat healthy



Avoid mind-altering substances



• Prioritize sleep



• Build an internal locus of control



Quiet time 10 minutes a day





Agenda

- Welcome
- Commitment to Local Businesses
- Build Peralta Academy Schedule
- Course Scheduling Basics
- Survey
- Closing





Meet The Team

Shonda Scott

CEO / Founder 360 Total Concept



Commitment to Local Businesses

Shonda Scott, 360 Total Concept

- PCCD Small Business Policy
 - 25% Small Local Business Participation
- Certification (small business located in 6 cities in Peralta District: Alameda, Albany, Berkeley, Emeryville, Oakland and Piedmont)
 - SLBE: Revenue size has not exceeded gross annual revenue for the past 3 consecutive years
 - Construction Firms: \$8.5M > under
 - Goods Non-Professional Services Firms \$6M > under
 - A/E and Professional Services \$3M > under
 - SELBE
 - For businesses that have not exceeded revenue of \$1.5M past 3 consecutive years
- Host Outreach Meetings
- Matchmaking Sessions with Primes
- Build Peralta Academy
 - Technical Assistance Workshops





Meet The Team

Bonnie James

CEO

BRJ & Associates



Build Peralta Academy Course Schedule (9 Part Series – Technical Assistance Workshops)

Course Title	Description	Instructors	Date
Developing A Safety Program During COVID19 Era	Learn The Law(s) Federal OSHA has approved California's use of its version of construction and OSHA safety	BRJ & Associates - Mark Edwards Avitus Group – Bill Kane	9/30/20
How to Bid Informally and Formally including CUPCCAA	Learn how to bid informally and formally including the CUPCCAA process, pre-qualification and other PCCD contracting procedures	PCCD – Brian Slaughter AECOM - Ray Loving	10/14/20
Small Business Guide to Access Capital; Manage Profitability and Cashflow	Learn about programs and opportunities for small businesses to achieve capital/cashflow in a COVID-19 Era, including PPP loan forgiveness	SBA - Julie Clowes Summit Bank - Tom Duryea FHLB–Kevin Blackburn PCV - Adria Moss Avitus Group - Pete Maki 360 Total Concept - Shonda Scott	10/28/20
Change Management: How to Manage Scope, Schedule & Budget	Learn the principles of planning for the identification and management of changes	PCCD Program Management/ Construction Management PM Panel: AECOM, BRJ, Kitchell, Roebblen, Swinerton	11/12/20
How to Obtain Bonding/Insurance	Learn how to obtain construction bonds and insurance for major projects and how to build bonding capacity for your company	Merriwether & Williams	11/18/20
Learn more about PCCD Small Business Program and Local Small Business Certification	Learn about PCCD's small local business program and how to get certified with local agencies	PCCD - Atheria Smith City of Oakland - Ernestine Nettles Port of Oakland - Ramona Dixon 360 Total Concept - Shonda Scott	12/09/20
How to Prepare Estimate	Learn the principles of how to prepare a construction estimate	AECOM - Peter Morris	12/16/20
Scheduling 101 - How to Prepare A Schedule	Learn the basics about project schedules: from critical path method to work breakdown structure and everything in between	AECOM - Craig Olsen	1/13/21
Small Business Administration Update - Surety-Bond Guarantee, PPP and loans	This course will provide details on SBA programs and they benefit small, local firms interested in working on public sector projects.	SBA - Julie Clowes	1/27/21



Meet The Expert

Craig Olsen

Senior Program Controls Manager

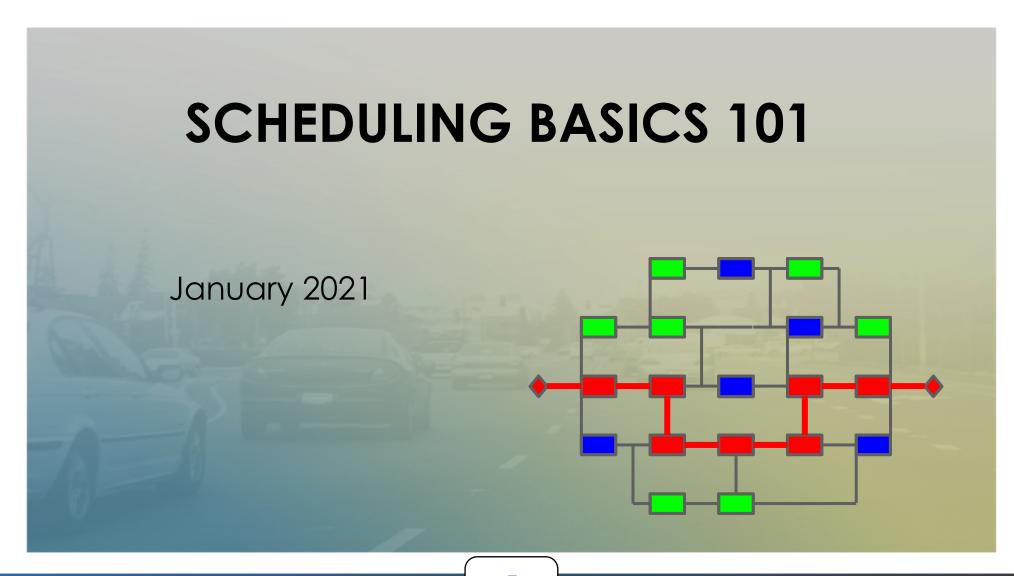
AECOM

Credentials:

- CCP Certified Cost Professional (AACE)
- PSP Planning & Scheduling Professional (AACE)
- CCM Certified Construction Manager (CMAA)
- eBCP>T Certified eBuilder Professional & Traine











Critical Path Method Scheduling (CPM)

- Time-phase model of tasks
- Calculates Critical Path
- Relationships and lags
- Facilitates time impact analyis



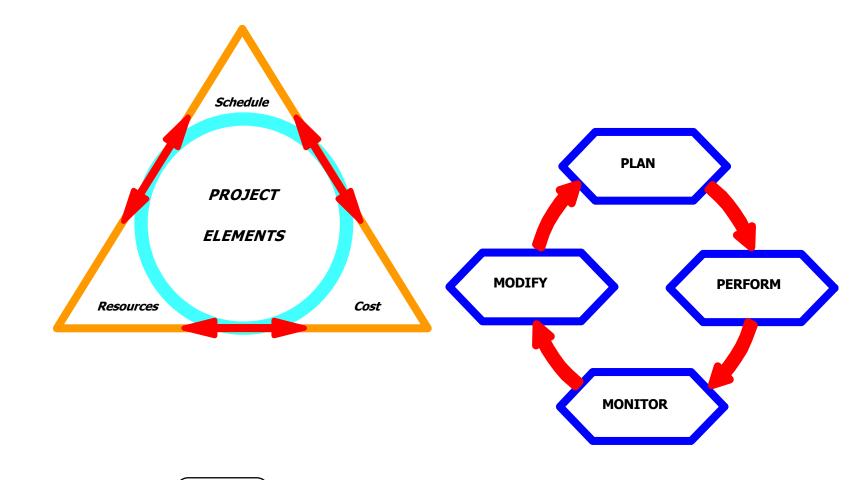




Schedule Elements & Cycle

Elements

Cycle

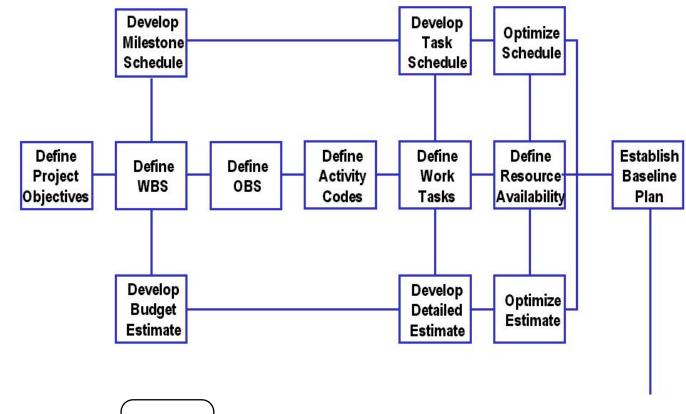






Planning

- Objectives
- Team
- Information
- Work Plan
- Resources
- Costs
- Baseline

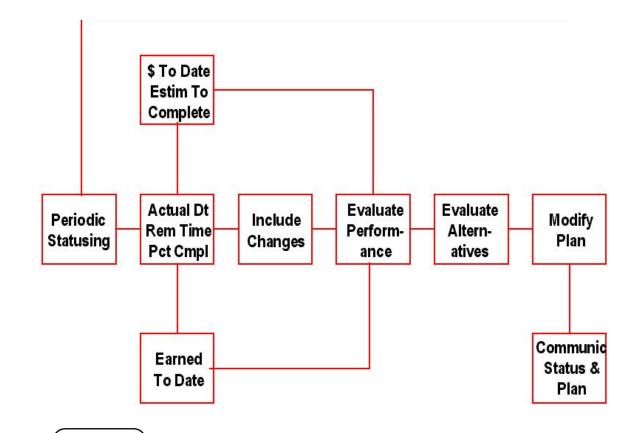






Control

- Progress Updates
- Forecasts
- Measure
- Workarounds
- Revised Plan
- Communicate

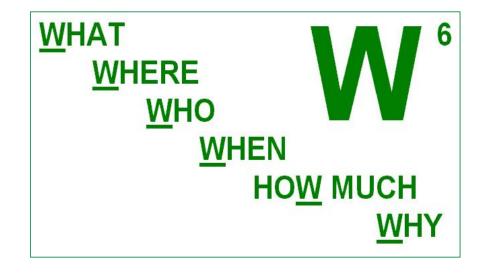






Schedule Information Basis

- What has to be done?
- Where does it take place?
- Who has to do it?
- When does it have to be done?
- How much should it cost?
- Why does it have to be done in a certain sequence?

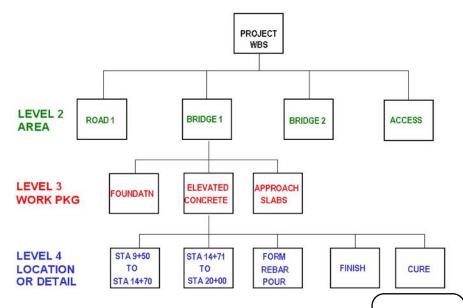


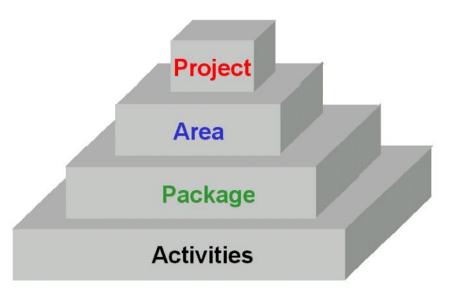




Work Breakdown Structure (WBS)

- Organization of work to be performed
- Information Structure
- Facilitates Reporting



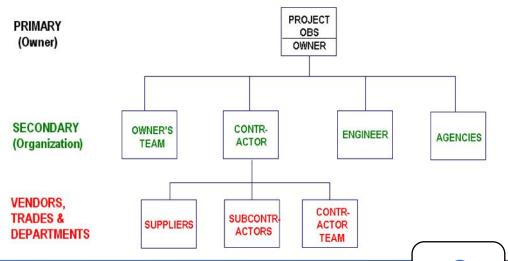


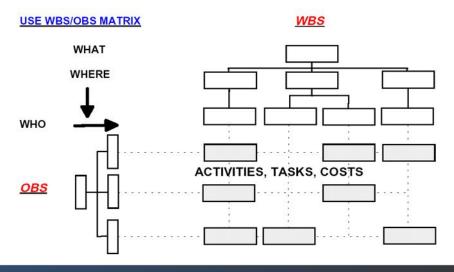




Organizational Breakdown Structure (OBS)

- Team Organization
- Responsibility
- Reporting



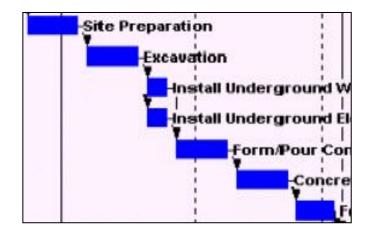


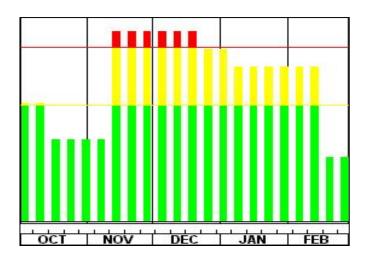




Uses & Benefits of Schedules

- Identify Interfaces and dependencies
- Team's work plan
- Management Tool
- Analyze resource utilization
- Forecast completion



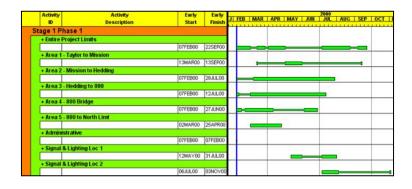






Types of Schedules

- Summary provides rolled-up view
- Detail shows activities, relationships and sequence
- Milestones for key project dates
- Different perspectives from same file



Activity	Activity Description	Early Start	Early Finish	J FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
tage 1 F		Start	rinish	
	Hedding to 880	_	_	7 7 7 7
	Video Santary @ 153+60 & 154+60	07FFB00	07FEB00	Video Sanitary @ 153+60 & 154+60
	Video Storm 152+95	07FEB00	07FEB00	
		07FEB00	09FEB00	Wideo Storm 152+95
	Install Rail Crossing @ LRT			Install Rail Crossing @ LRT
	Remove MBGR Hedding to 880	09FEB00	09FEB00	Remove MBGR Hedding to 880
	Remove & Pave island @ LRT	10FEB00	10FEB00	iRemove & Pave island @ LRT
	Clear & Grub Hedding to 880	02MAR00	07MAR00	and a state incoming to the
	Notice to City of San Jose 533mm Sewer	02MAR00	15MAR00	and the city of San seed Seeming Series
170	Remove Fence 8+10 to 12+50	OBMAROO	09MAR00	Transport cine or to to 12 by
190	City of San Jose Install 533mm Sewer	16MAR00	11MAY00	City of San Jose Install 533mm Sewer
610	Excavate & Stockpile Lead from 8+60 to 8+84	12MAY00	12MAY00	Excavate & Stockpile Lead from 8+60 to 8+84
210	Construct Temp Ret Wall No. 1	12MAY00	30MAY00	Construct Temp Ret Wall No. 1
200	Rd Ex/Import Abut No. 1 - Hedding to 880	12MAY00	02JUN00	Rd Eximport Abut No. 1 - Hedding to 880
220	Install Fence 7+80 to 12+20	05JUN00	07JUN00	# # # # # # # # # # # # # # # # # # #
490	Install DS Nos. 3 8 4 APC	05JUN00	09JUN00	Almstall DS Nos. 3 & 4 APC
560	Install DS No. 5 APC	05JUN00	16JUN00	Install DS No. 5 APC
500	Install A2-150 Curb @ S Hedding	12JUN00	14JUN00	Øinstall A2-150 Curb @ S Hedding
490	Install DS Nos. 3 & 4 DI Bottoms	12JUN00	16JUN00	pinstall DS Nos. 3 & 4 DI Bettoms
510	Subgrade Hedding to 880	19JUN00	19JUN00	↓Subgrade Hedding to 889
570	Install DS No. 5 Bottoms & Tops	19JUN00	26JUN00	minstall DS No. 5 Bottoms & Tops
520	Import/Finegrade AB Hedding to 880	20JUN00	27JUN00	Import/Finegrade AB Hedding to 880
2320	Install Conduit to Flashing Beacon to Bridge	20JUN00	27JUN00	Install Conduit to Flashing Beacon to Brid
530	Pave 105mm AC Hedding to 880	28JUN00	28JUN00	Pave 105mm AC Hedding to 880
540	Install DS Nos. 3 & 4 SCSP	29JUN00	07JUL00	psinstall DS Nos. 3 & 4 SCSP
550	Install Ds Nos. 3 & 4 Dl Tops	10,846.00	12,88,00	Binstall Ds Hos. 3 & 4 Di Tops

Activity	Activity Description	Early Start	Early Finish	Total Float	EFMIAMUJIJAISIOIHID JIFMIAMUJIJAISIOIHID JIFMIAM
10	Contract Approval	02FEB00A			Contract Approval
20	First Working Day	07FEB00*		0	First Working Day
1070	Shift Northbound Traffic/Start Stage 2 Phase 2		27SEP00	0	Shift Borthbound Traffic/Start Stage 2 Phase 2
1760	Shift Traffic to Stage 3		09NOV00	0	Shift Traffic to Stage 3
2400	Contract Work Complete		19APR01	0	♦ Contract Work Complete

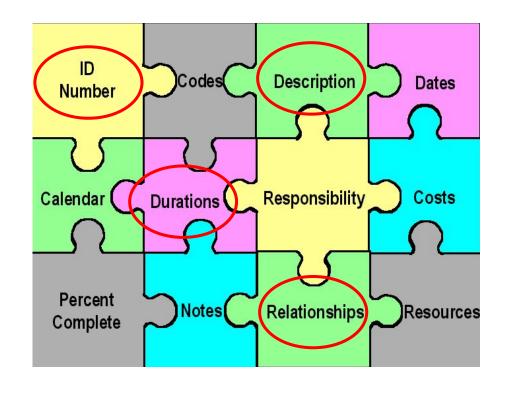






Schedule Details

- Database of activity information
- Minimum Requirements
- Recommended items
- Optional items
- Other information

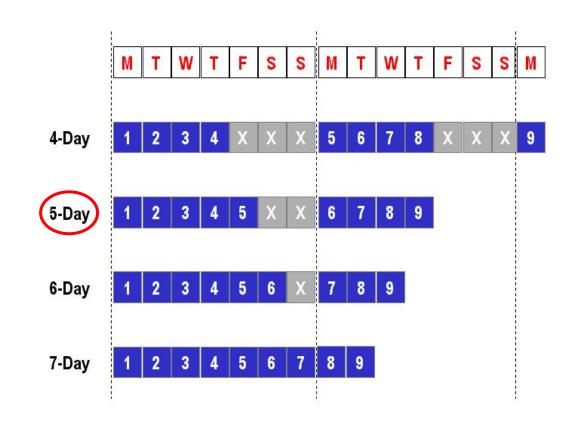






Calendars

- Defines workdays and non-workdays
- One calendar per activity
- Multiple calendars per project

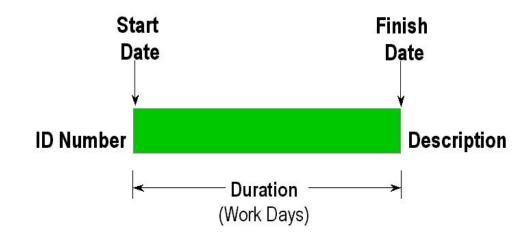






Activities (bar elements)

- ID Number
- Start and Finish Dates
- Duration
- Description

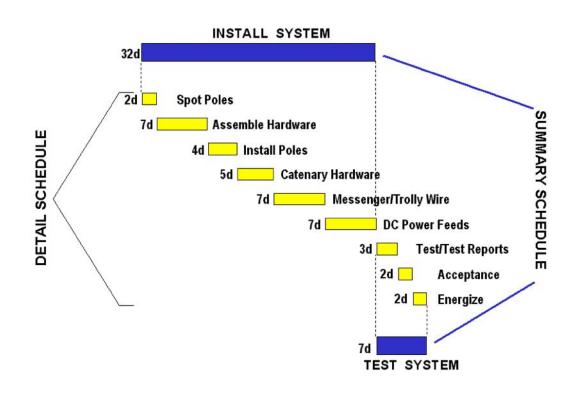






Activities (level of detail)

- High level activities represent a process or group of tasks – more difficult to manage
- Detail activities provide better information for relationships and events

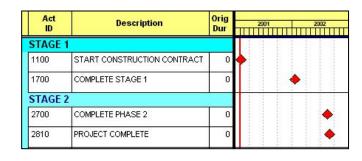


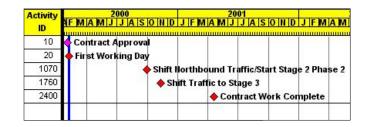




Milestones

- Designate start or finish of a group of activities or events
- Points of measurement
- Simplified perspective of project schedule





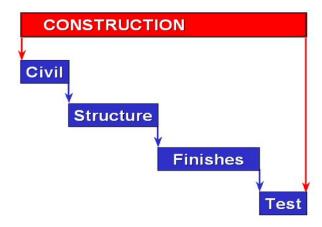
Project No.	Activity Description	Early Finish	20	00	2	001			2002	_	2	003	
	ES - Addition	rinsii	#	щ	щ	щщ	щ	щ	щ	щ	щ	щ	щ
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22.24067		02JUL03	- 1	н			9	•	44	40	1	•	1
22.24067	NTP Date for Design	09FEB01	1			1 1				1	- 10	1	1
22.24067	Completion of Schematic Drawings	23APR01						- 2		1		1	1
22.24067	Completion of Design Development	12AUG01			1.			- 5	1	1	- 1		1
22.24067	NFA issued by DTSC	19AUG01		P.	i	i 🔷 i		- 6	1	9	100	i	31
22.24067	Board Approval of CEQA, Project & Condemnation	17DEC01	1		1	1 1	4		1	4	- 1	1	1
22.24067	Submit 100% Construction Documents to LAUSD	17DEC01	1			1 1	4		- 1	1		7	T
22.24067	CDE Plan Approval	15FEB02		b.	1 :	1 1		• :	1	1	15		1
22.24067	DSA Approval	14JUN02	i	Е	1.3	9 9		-		1	- 10		į.
22.24067	Bid Opening	26JUL02	1	Е.	1	1 1		- 7			100		1
22.24067	Award Contract to Construct	20SEP02	1		1 1	1 1		- 1	1	4	- 1	1	1
22.24067	Date of Construction NTP	250CT02			!	1 1		- 1	1			!	1
22.24067	Final Inspection	02JUL03		В	1	9 9		- 1		1	1.5	٠	i
22.24067	Beneficial Occupancy	02JUL03			1 :	4 4		. 1	- 1	1		•	-





WBS Summary Bars

- Summarize dates of a group of activities
- Visibility to both the summary and detail
- "Headlines"



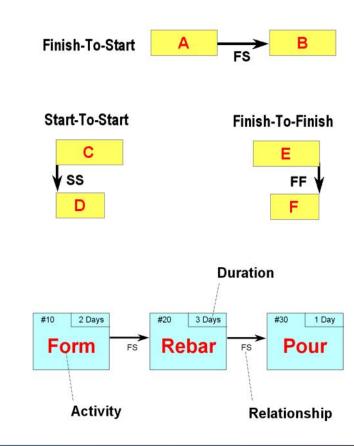
Act	Description	Orig						- 1	001						
ID	Description	Dur	M	A	N	I	I	_		T	5	0	N	D	J
1499	EXAMPLE FOR BRIDGE	203 *													
1500	EMBANKMENT FILL/ SETTLEMENT -	90													
1510	EXCAV/PILES ABUTMENTS & BENTS	15					j								
1520	BENT FOOTINGS - BR 720	20													
1530	ABUTMENTS - BR 720	30													
1540	COLUMNS - BR 720	25													
1550	ERECT FALSEWORK - BR 720	15	1												
1560	SOFFITS & STEMS - BR 720	25										I			
1570	BRIDGE DECK BR 720	30													
1590	APPROACH SLABS - BR 720	5													0
1580	REMOVE FALSEWORK - BR 720	10													





Relationships

- Relationships define dependencies and interfaces
- Predecessors
- Successors
- Lags



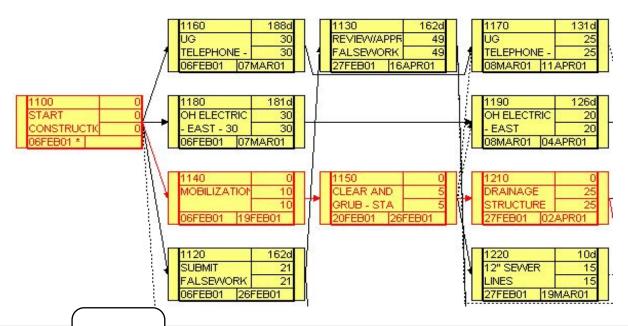




Network

- Series of activities and relationships
- Represents sequence of work plan

Open ends

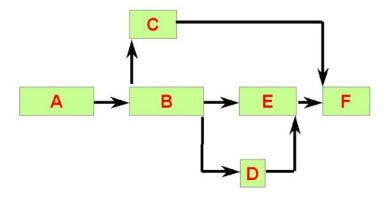


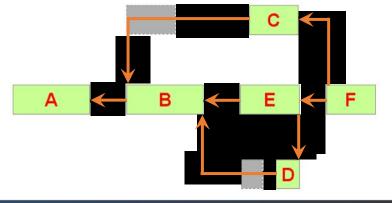




Schedule Calculations

- CPM calculations determine the Start and Finish Dates
- Forward Pass
- Backward Pass
- Items that affect the calculated dates





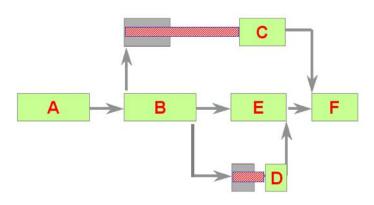




Float

 Calculated by subtracting Early Finish Date from the Late Finish Date

- Represents the number of workdays an activity can slip without impacting the project completion date
- Positive Float
- Zero Float
- Negative Float

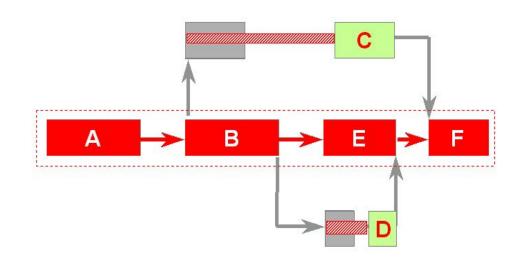






Critical Path

- "Longest continuous path of activities through a project that determines the project completion date"
- Critical activity delays will impact the project completion date
- Lowest amount of float

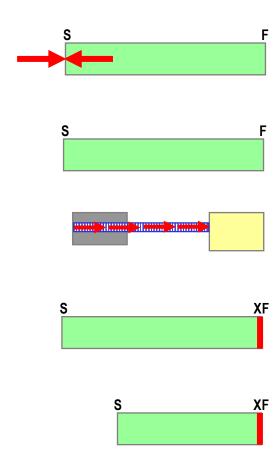






Constraints

- Override relationships
- Can distort the schedule dates, float and critical path
- Start constraints
- Finish constraint
- Float constraint
- Duration constraint

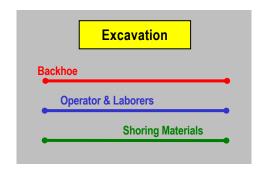


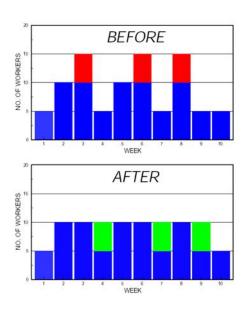




Resources

- Optional for schedules
- Labor, Equipment, Materials
- Assigned to activities
- Represents what is needed to complete the work
- Provides forecast and ability to "balance" the project needs



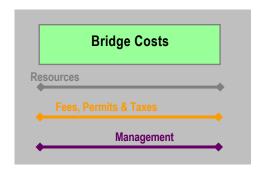


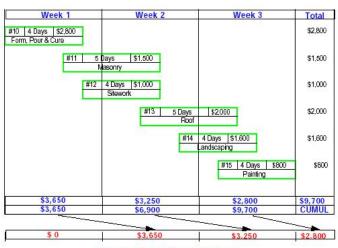




Costs

- Optional for schedules
- Costs for Resources, Other Direct Costs, Management
- Assigned to activities
- Represents the cost to complete the work
- Provides forecast of cash flow





Cash Flow (1 week lag)





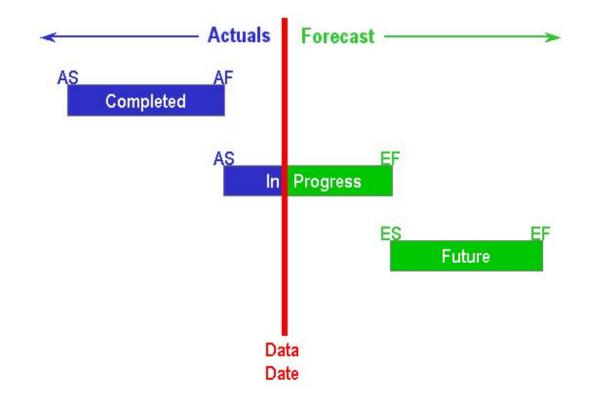
Schedule Updates

Data Date

Completed

In Progress

Future







Comparison

Baseline (planned)

Update (actual)

Activity	78-7-1	Early.	Early	Torget	Torget							Y	- 4		200)1	
ID	Description	Early Start	Finish	Target Start	Target Finish	JAN	FEI	3	MAI	R	AF	R	M	AY	,	JUN	
13,000		11804737224	Mannero	36000000	1,300100000									4			Ļ
1100	START CONSTRUCTION	02/06/01 *		02/06/01													
1140	MOBILIZATION	02/06/01	02/19/01	02/06/01	02/19/01												
1160	UG TELEPHONE - EAST - 30 DAY	02/06/01	03/07/01	02/06/01	03/07/01												
1150	CLEAR AND GRUB - STA 190 -	02/20/01	02/26/01	02/20/01	02/26/01												
1220	12" SEWER LINES	02/27/01	03/19/01	02/27/01	03/19/01												
1210	DRAINAGE STRUCTURE 1	02/27/01	04/02/01	02/27/01	04/02/01												
1170	UG TELEPHONE - EAST	03/08/01	04/11/01	03/08/01	04/11/01												
1500	EMBANKMENT FILL/	04/03/01	07/01/01	04/03/01	07/01/01												
1300	CLASS 4 SUBBASE - EAST	04/19/01	05/16/01	04/19/01	05/16/01												
1310	CURB & GUTTER - EAST	05/24/01	06/07/01	05/17/01	05/31/01												



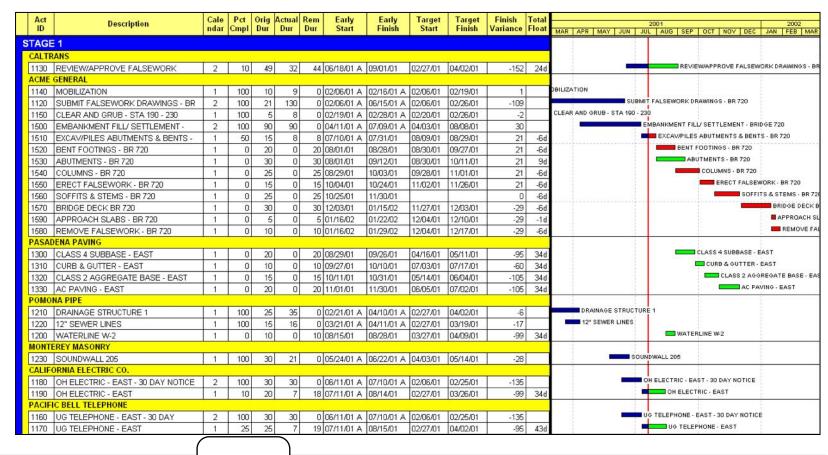


Variances & Exceptions

Durations

Dates

Float









Track Key Statistics

CATEGORY	BASELINE SCHEDULE	FIRST UPDATE	SECOND UPDATE	THIRD UPDATE	FOURTH UPDATE
Total No.Of Activities	321	325	316	332	336
% Critical Activities	32%	44%	42%	38%	9 <u>24</u>
Critical Path Total Float	0	-10	-8	-4	
Total % Complete	0%	20%	45%	80%	100%
Project Completion Date	3/01/02	3/15/02	3/13/02	3/07/02	3/06/02





Schedule Recovery (Overlapping Activities)

Activity	Wild All Co. State of the Control of	Early	Early	Target	Target	Finish		E SAN TO SAN		2001	
ID	Description	Start	Finish	Start	Finish	Variance	FEB	MAR	APR	MAY	JUN
		Otali	1 1111011	Otare	1 1111011	Variation	05 12 19 2	6 05 12 19 26	02 09 16 23	30 07 14 21 28	8 04 11 18 25 02
1210	DRAINAGE STRUCTURE 1	03/05/01	04/06/01	02/27/01	04/02/01	-4d					
1500	EMBANKMENT FILLI	04/07/01	07/05/01	04/03/01	07/01/01	-4d		11			
	SETTLEMENT - BRIDGE 720										

Activity		Early	Early	Target	Target	Finish	h 2001									1											
ID	Description	Start	Finish	Start	Finish	Variance			EB			MA				AP				MA			12000	JUN			Ī
10		Start	1 1111311	Start	1 11 11 511	variance	0)5	12 1	9 20	6 05	12	19	26	02	09	16 2	23 3	30 0	7 14	4 21	28	04	11 1	18 2	5 02	4
1210	DRAINAGE STRUCTURE 1	03/05/01	04/06/01	02/27/01	04/02/01	-4d						-	-	7													
1500	EMBANKMENT FILL/ SETTLEMENT - BRIDGE 720	04/03/01	07/01/01	04/03/01	07/01/01	0								Y		<u></u>				-	-						





Schedule Recovery (6 Day Work Calendar)

Activity	Wild All Co. State of the Control of	Early	Early	Target	Target	Finish		E SAN TO SAN		2001	
ID	Description	Start	Finish	Start	Finish	Variance	FEB	MAR	APR	MAY	JUN
		Otali	1 1111011	Otare	1 1111011	Variation	05 12 19 2	6 05 12 19 26	02 09 16 23	30 07 14 21 28	8 04 11 18 25 02
1210	DRAINAGE STRUCTURE 1	03/05/01	04/06/01	02/27/01	04/02/01	-4d					
1500	EMBANKMENT FILLI	04/07/01	07/05/01	04/03/01	07/01/01	-4d		11			
	SETTLEMENT - BRIDGE 720										

Activity		Early	Early	Target	Target	Finish					2001	
ID	Description	Start	Finish	Start	Finish	Variance	FEB	MAR		APR	MAY	JUN
	**	otart	Timori				05 12 19 2	6 05 12 1	26 02	9 16 23	30 07 14 21 2	8 04 11 18 25 02
1210	DRAINAGE STRUCTURE 1	03/05/01	04/02/01	02/27/01	04/02/01	0						
1500	EMBANKMENT FILL/ SETTLEMENT - BRIDGE 720	04/03/01	07/01/01	04/03/01	07/01/01	0						





Schedule Recovery (Reducing Durations)

Activity	Walk of the Control o	Early	Early	Target	Target	Finish				2001	
ID	Description	Start	Finish	Start	Finish	Variance	FEB	MAR	APR	MAY	JUN
		Otart	1 1111011	Otart	1 1111011	Variation	05 12 19	26 05 12 19 26	02 09 16 23	30 07 14 21 2	3 04 11 18 25 02
1210	DRAINAGE STRUCTURE 1	03/05/01	04/06/01	02/27/01	04/02/01	-4d					
5275355					100/14/17/07/4/05/4/0	100			501		
							\mathbf{N}				
1500	EMBANKMENT FILL/	04/07/01	07/05/01	04/03/01	07/01/01	-4d		1 11	1		
	SETTLEMENT - BRIDGE 720						V 1				
							3 1 1 3				3 1 3 3 10 1

Activity		Early	Early	Target	Target	Finish	2001				
ID	Description	Start	Finish	Start	Finish	Variance	FEB	MAR	APR	MAY	JUN
10		Start	1 11 11 511	Start	1 1111311	variance	05 12 19 2	26 05 12 19 26	02 09 16 23	30 07 14 21 28	8 04 11 18 25 02
1210	DRAINAGE STRUCTURE 1	03/05/01	04/06/01	02/27/01	04/02/01	-4d			-		
20000000	EMBANKMENT FILL <i>I</i> SETTLEMENT - BRIDGE 720	04/07/01 A	07/01/01	04/03/01	07/01/01	0					













Build Peralta Bond Program Contact Information

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