

# **Web-Based Project Management and Electronic Documentation**

**Coalition for Adequate School Housing  
Advanced Concepts in  
Construction Management**

**Keith Kajiya, URS Vice President  
Wael Elatar, SBCUSD Facilities Administrator**



## **URS Corporation**

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- **#1 ENR Top 500 Design Firm**
- **#3 ENR Top 100 CM-for-Fee Firm**
- **Three Divisions**
  - URS Division
  - EG&G Division
  - Washington Group Division

## **San Bernardino City USD**

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- **Over 55,000 Students**
- **66 School Campuses**
- **Facilities Capital Improvement Program**
  - Over 120 Projects
  - \$711 Million in Funding Secured
  - \$280 Million in Expenditures

## **Benefits to the District**

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- **Real-time Information**
- **Centralized Data**
- **Accountability**
- **Coordination Across Consultants & Contractors**

## **Decision Factors**

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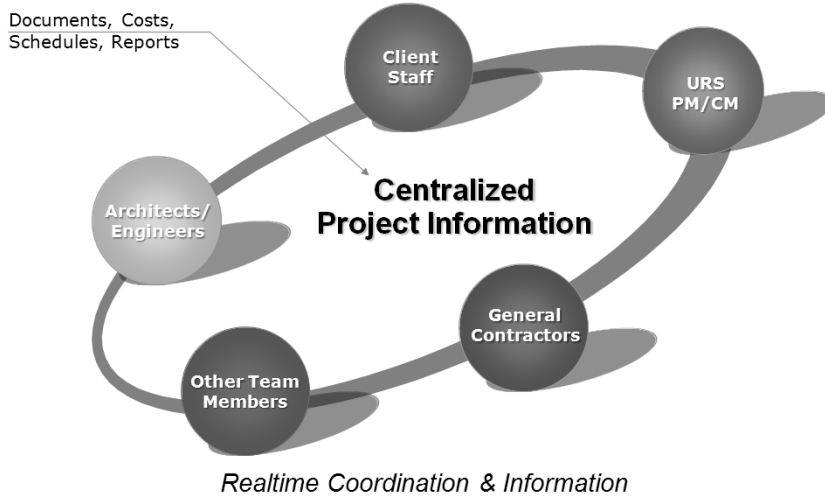
- **Cost**
- **Customization**
- **System Dependability**
- **Implementation Speed**

## **Implementation Options**

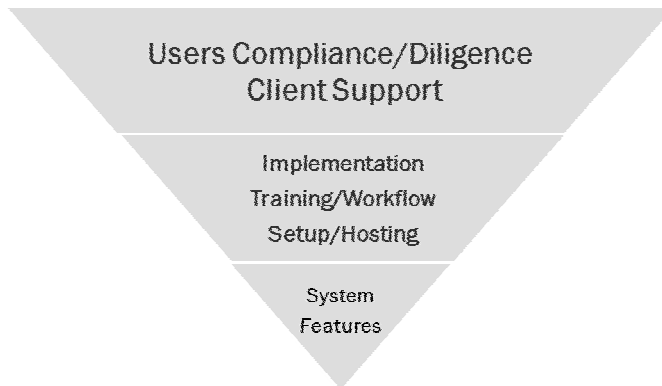
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- **Off-the-Shelf**
  - Primavera
  - Meridian
  - Application Service Providers
- **Custom Programming**

# Collaboration



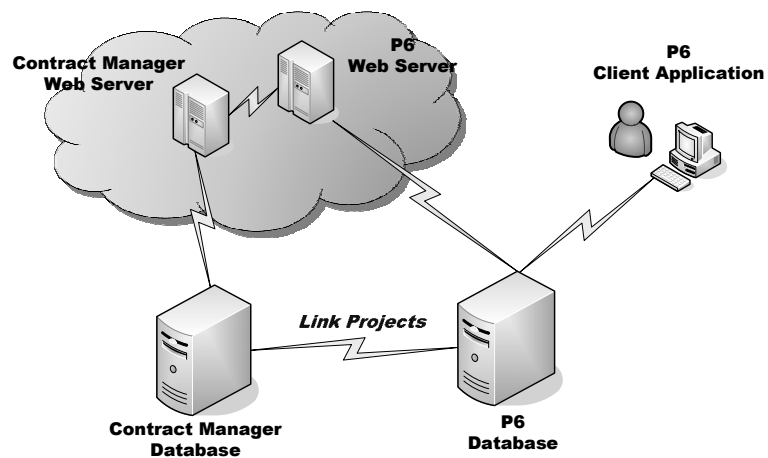
# Keys for Success



## Primavera

- **Industry Software Leader**
- **Off-the-Shelf Data Integration**
- **P6**
- **Contract Manager**
- **Project Manager Web Tool**

## Deployment



*Slide graphic concept from DR McNatty & Associates*

# Implementation

- Schedules
- Document Control
- Cost Management
- Requests for Information
- Submittals

# Schedules

Activities of CAJON HS - Modernization - Modernization M09

View: By WBS/Dates | Customize View | Save View | Save View As | Delete View

WBS / Activity	Activity ID	Start	Finish	At Completion Duration	Activity % Complete
Set plumbing fixtures and throughout	G & H...	08/15/08 A	09/08/08 A	15d	100%
Install flooring and base	G & H...	08/18/08 A	08/22/08 A	5d	100%
Patch and paint exterior building	G & H...	08/18/08 A	08/21/08 A	4d	100%
Install restroom accessories	G & H...	08/28/08 A	09/02/08 A	3d	100%
Finish electrical/fire/data trim	G & H...	08/28/08 A	09/03/08 A	4d	100%
Underground/walls and ceiling rough in plumbing	G & H...	09/02/08	09/11/08	8d	0%
Framing/backing at walls/ceilings	G & H...	09/02/08	09/11/08	8d	0%
Pre subgrade for thresholds and floors	G & H...	09/02/08	09/04/08	3d	0%
Final walk through & punch list	L 3640	09/02/08*	09/08/08	5d	0%
Move In	L 3650	09/02/08*	09/02/08	1d	0%
Place and pour concrete	G & H...	09/05/08	09/08/08	2d	0%
Closeout	CLSOT	09/09/08	12/03/08	60d	0%
Swing doors hardware complete	G & H...	09/09/08*	09/11/08	3d	0%
Mortar bed at ceramic tile areas	G & H...	09/09/08	09/15/08	5d	0%
Patch and paint exterior building	G & H...	09/11/08	09/16/08	4d	0%
Install new door frames	G & H...	09/15/08	09/17/08	3d	0%
Install HVAC curb and air handler at rooftop	G & H...	09/15/08	09/17/08	3d	0%
Install ceramic tile restroom areas	G & H...	09/16/08	10/02/08	11d	0%
Install flooring and base	G & H...	09/18/08	09/18/08	1d	0%
Patch rooftop at HVAC curb	G & H...	09/19/08	09/25/08	5d	0%
Final walk through	G & H...	09/24/08	09/30/08	5d	0%
Drywall/Tape walls & ceilings	G & H...	09/29/08	10/14/08	12d	0%
Patch and close interior walls and soffits	G & H...	10/01/08	10/10/08	8d	0%

... 2008 | ... Q3 | ... Q4

# Document Control

**PRIMAVERA** Transmittal Queue Print Search

log out NEFF SDC 2 Projects (Docs) (CSD2) Sep 16, 2008

Control Center > MISC CORR RECD

Select an action Go [First] [Previous] 1 2 3 [Next] [Last] Find expand all collapse all

Layout: By FROM COMPANY

NEFF CONSTRUCTION, INC. (From)

Subject	Date Received	Item Date	To	To Contact	From
APPROVAL OF PRELIMINARY ENVIRONM	May 2, 2007	Apr 30, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
EVALUATION OF PROPOSED IMPORT MA	May 2, 2007	Apr 6, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
COR #4-18-1, JB #4 PES & CD-65	May 14, 2007	May 10, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
SIGNED INSTRUCTION BULLETIN NO. 4	May 17, 2007	May 14, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
BID OPENING JANUARY 9, 2007 @ 2:00PM	May 24, 2007	May 24, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
RFI RESPONSE & CONTRACTS INCLUDIN	May 30, 2007	May 25, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
IB 01R2 FOR JPI DEVELOPMENT INCLUDIN	Jun 4, 2007	Jun 1, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
GRADING & DRAINAGE PLAN SHEETS C1:	Jun 29, 2007	Jun 28, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
INSTRUCTION BULLETIN #3 BES	Aug 16, 2007	Aug 14, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
INSTRUCTION BULLETIN #8 PES	Aug 20, 2007	Aug 16, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
AUGUST SCHEDULE UPDATE 8-25-07	Sep 10, 2007	Sep 7, 2007	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
PERMANENT CYLINDER KEYING INFORM	Jan 10, 2008	Jan 10, 2008	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS
DESIGNATION OF SUBCONTRACTORS	Feb 25, 2008	Feb 22, 2008	SAN BERNARDINO CITY USD	Karl Schrader(SBCUSD)	NEFF CONS

# Cost Management Summary

**PRIMAVERA P6** Print | Help | Preferences | Logout

Dashboards Projects Administration

Project Manager

Project Manager Filter by Portfolio: Category = MOD+NE Filter last refreshed on 08/26/08

Expand All | Collapse All | Customize

Cost Worksheet

Project	Cost Group	Title	Orig Bgt	Appr Bgt Rev	Pend Bgt Rev	Projected Bgt	Orig Comm	Appr Comm	Pend Comm	
<b>TOTALS</b>			<b>\$736,715,879.18</b>	<b>\$20,828,944.71</b>	<b>\$46,251,021.88</b>	<b>\$803,795,845.77</b>	<b>\$367,051,994.63</b>	<b>\$7,233,200.86</b>	<b>\$95,800.05</b>	<b>\$32</b>
C01			\$26,836,027.62	\$5,264,328.00	\$0.00	\$24,100,015.62	\$26,260,000.12	\$420,852.71	\$0.00	\$
C02			\$27,284,875.74	\$0.00	\$0.00	\$27,284,875.74	\$32,016,929.01	\$657,576.61	\$0.00	\$
C03			\$17,901,285.74	\$0.00	\$0.00	\$17,901,285.74	\$18,877,285.38	\$583,152.95	\$92,776.05	\$
C04			\$23,771,476.73	\$0.00	\$0.00	\$23,771,476.73	\$1,116,969.63	\$0.00	\$0.00	\$
C05			\$19,224,606.00	\$0.00	\$0.00	\$19,224,606.00	\$1,269,656.77	\$0.00	\$0.00	\$
C06			\$20,936,462.80	\$0.00	\$0.00	\$20,936,462.80	\$870,368.26	\$0.00	\$0.00	\$
C07			\$0.00	\$0.00	\$23,154,753.44	\$23,154,753.44	\$1,600,082.20	\$0.00	\$0.00	\$
C08			\$1,518,119.08	\$0.00	\$0.00	\$1,518,119.08	\$1,503,644.95	\$0.00	\$0.00	\$
C09			\$7,892,600.00	\$0.00	\$0.00	\$7,892,600.00	\$6,962,589.87	\$0.00	\$0.00	\$
C10			\$23,189,352.61	\$2,760,222.22	\$0.00	\$25,949,574.83	\$24,162,839.41	\$679,140.24	\$0.00	\$
C11			\$696,276.11	\$0.00	\$0.00	\$696,276.11	\$714,435.89	\$612.87	\$0.00	\$
C12			\$719,159.77	\$0.00	\$0.00	\$719,159.77	\$708,103.36	\$58,852.03	\$0.00	\$
C13			\$876,100.47	\$0.00	\$0.00	\$876,100.47	\$751,224.85	\$17,544.86	\$0.00	\$
C14			\$775,959.30	\$0.00	\$0.00	\$775,959.30	\$722,488.91	\$11,519.87	\$0.00	\$
C15			\$735,036.43	\$0.00	\$0.00	\$735,036.43	\$749,752.32	\$15,601.86	\$0.00	\$
C16			\$903,766.65	\$0.00	\$0.00	\$903,766.65	\$738,844.99	\$101,326.87	\$0.00	\$
C17			\$752,716.56	\$0.00	\$0.00	\$752,716.56	\$729,110.66	\$2,675.86	\$0.00	\$
C18			\$766,621.06	\$0.00	\$0.00	\$766,621.06	\$732,521.59	\$612.86	\$0.00	\$

# Cost Management Detail

PRIMAVERA® P6 Print | Help | Preferences | Logout

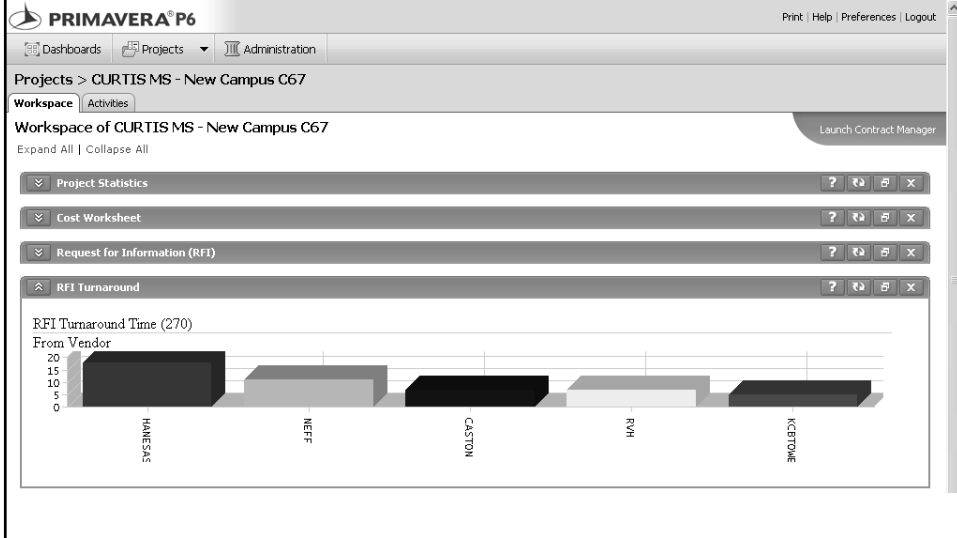
Dashboards Projects Administration

Dashboards > Project: C02

Cost Worksheet For C02

Cost Code	Cost Group	Title	Orig Bgt	Appr Bgt Rev	Pend Bgt Rev	Projected Bgt	Orig Comm	App
<b>Project: C02</b>			<b>\$27,284,875.74</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$27,284,875.74</b>	<b>\$32,016,929.01</b>	<b>\$657,284.88</b>
1S 5823 LEGL	1 SITE	Legal - Site	\$201,738.35	\$0.00	\$0.00	\$201,738.35	\$202,956.35	
1S 6110 PURC	1 SITE	Acquisition/Housing Imp	\$5,782,097.40	\$0.00	\$0.00	\$5,782,097.40	\$9,661,951.20	
1S 6120 APPR	1 SITE	Appraisal Fees	\$146,300.00	\$0.00	\$0.00	\$146,300.00	\$146,300.00	
1S 6130 ESCR	1 SITE	Escrow Costs	\$3,850,985.00	\$0.00	\$0.00	\$3,850,985.00	\$17,270.00	
1S 6135 SURV	1 SITE	Survey	\$93,620.00	\$0.00	\$0.00	\$93,620.00	\$96,159.00	
1S 6142 SUPT	1 SITE	Site Support / CEQA	\$575,299.42	\$0.00	\$0.00	\$575,299.42	\$661,132.07	
1S 6145 RELO	1 SITE	Relocation Assistance	\$555,494.90	\$0.00	\$0.00	\$555,494.90	\$555,494.90	
1S 6152 OTHR	1 SITE	Other Site Costs	\$323,518.45	\$0.00	\$0.00	\$323,518.45	\$463,713.86	
1S 6155 EDOM	1 SITE	Em Dom Legal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1S 6162 HAZW	1 SITE	Haz Waste Removal	\$151,071.24	\$0.00	\$0.00	\$151,071.24	\$151,071.24	
1S 6191 UTIL	1 SITE	Utility Fees	\$19,220.00	\$0.00	\$0.00	\$19,220.00	\$19,220.00	
1S 9998 ESCL	1 SITE	Site Escalation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1S 9999 CTIN	1 SITE	Site Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2P 5823 LEGL	2 PLANNING	Legal - Planning	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2P 5830 ADVT	2 PLANNING	Ads	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2P 5880 CONS	2 PLANNING	Other - Consultant Fees	\$1,500.00	\$0.00	\$0.00	\$1,500.00	\$1,500.00	
2P 6152 ARCF	2 PLANNING	Other A/E Fees	-\$1,479.00	\$0.00	\$0.00	-\$1,479.00	-\$1,479.00	
2P 6191 UTIL	2 PLANNING	Utility Fees	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2P 6210 ARCF	2 PLANNING	Arch/Eng	\$884,774.27	\$0.00	\$0.00	\$884,774.27	\$892,419.46	
2P 6211 ARCR	2 PLANNING	Arch/Eng - reimburse	\$0.00	\$0.00	\$0.00	\$0.00	\$39,367.00	
2P 6213 OTHR	2 PLANNING	Other Planning Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2P 6230 DSAF	2 PLANNING	DSA Plan Check	\$70,781.00	\$0.00	\$0.00	\$70,781.00	\$80,781.00	
2P 6232 CDEF	2 PLANNING	CDE Plan Check	\$8,424.74	\$0.00	\$0.00	\$8,424.74	\$8,424.74	

# RFI Summary



# RFI Details

PRIMAVERA Print Search

log out CURTIS MS New Campus 50-073 (C67) Sep 16, 2008

Control Center > REQUEST FOR INFORMATION Log >

Request for Information schedule custom fields issues attachments

Select an action... Go expand all collapse all

Question

Elevation Conflicts - On Sheet C3.2, the fire lane design shows finish surface elevations which do not match the finish surface contours as called out on that sheet. This will directly affect our work.  
 CM's Note: Refer to "EL" elevations at North Side of Fire Lane (86.11, 86.52, 86.94, 87.36) in relation to 86.0 and 87.0 contours. Using those elevations the fire lane does not slope 2.2% - 2.6% down to the North as indicated.

Question Signed By: Wes Smylie  
 Date: Oct 2, 2006  
 Required Date: Oct 9, 2006

Answer

Disregard the contours. Please use the curb / fl elevations provided

Answer Signed By: Steven D. Prince  
 Date: Oct 3, 2006

# Submittal Summary

PRIMAVERA P6 Print Help Preferences Logout

Dashboards Projects Administration

Projects > RODRIGUEZ PREP ACADEMY ES#47 New Campus C10

Workspace Activities

Workspace of RODRIGUEZ PREP ACADEMY ES#47 New Campus C10 Launch Contract Manager

Expand All | Collapse All

- Project Statistics
- Cost Worksheet
- Request for Information (RFI)
- RFI Turnaround
- Submittals

SUBMITTALS (339)

All Types

Category	Count
NCM	~100
NEM	~100
NRC	~400
RSC	~100

# Submittal Details

**PRIMAVERA** Transmittal Queue Print Search

log out RODRIGUEZ ES#47 New Campus 50-004 (C10) Sep 16, 2008

Control Center > SUBMITTALS Log > schedule details custom fields issues attachments

**Submittal**

Select an action... Go expand all collapse all

**Workflow**

- Received from Michael Cambridge(CCI) select... x clear
- Cookie Jones, (QJB) (Submittal Coordinator)
- Sent to Pedro Jaramillo, (PCH) select... x clear
- Returned by Pedro Jaramillo, (PCH) select... x clear
- Cookie Jones, (QJB) (Submittal Coordinator)
- Forwarded to Michael Cambridge(CCI) select... x clear

# Questions?