



# ORANGE UNIFIED SCHOOL DISTRICT

## Measure S Bond Program

### February 2018 Monthly Progress Report



**PERIOD COVERED:**

February 1-28, 2018

**FISCAL YEAR**

FY 2017-2018

**PROGRESS REPORT NO.**

PR-008-1718-008

**PREPARED BY:**

**CUMMING**  
Building Value Through Expertise



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## 1.0 SUMMARY

### 1.1 Program Summary

The design phase continues and, overall, the Orange HS, El Modena HS and Villa Park HS designs are approximately 98% complete while the Canyon HS design is approximately 65% complete. In fact, the Program has already received DSA approval for the Interim Housing and Site Infrastructure Projects at Orange HS and Villa Park HS! And, the 100% Construction Documents have already been submitted to DSA for the STEM Buildings at Orange HS and Villa Park HS. Also, the 100% Construction Documents for the STEM Buildings at El Modena HS and Canyon HS are planned to be submitted to DSA on March 30, 2018 and May 21, 2018 respectively. The Measure S Monthly Reports, Project Designs and Board Presentations are available at the Bond Website, <https://www.orangeusd.org/measure-s>

### 1.2 Program Highlights/Key Milestones

#### February 15 Board Agenda Items

- Canyon HS Design Development Presentation by gkkworks (Information Item)

#### Program Management Plan (PMP)

- The Program Manager is scheduled to issue the final Draft on March 9<sup>th</sup>. The PMP is tentatively scheduled to be released to the Architects and Construction Managers at the Open House, to be scheduled.
- On 2/14, the District issued comments on the 95%, 90% and 75% Draft PMPs.
- On 2/7, the Program Manager issued the 95% Draft PMP for the District's comment.
- On 1/31, the Program Manager issued the 90% Draft PMP. The final PMP is tentatively scheduled to be issued by 2/16.
- On 1/18, the Program Manager issued the 75% Draft PMP which describes the general procedures to be adopted by the District, Architects and Construction Managers for the Measure S Capital Facilities Program. The purpose of the PMP is to:
  - Define all procedural matters relating to the design, procurement and construction of the projects for the District's Measure S Program; and
  - Provide written procedures and systems for quality control purposes for use by all Measure S Consultants and/or Contractors.

#### Program Wide Standard Specifications

- The final technical standard specifications have been completed.
- The final specifications will include project specific Supplementary Conditions, Summary of the Work, Phasing of the Work, Bid Items and incorporate comments by the Architects and Construction Managers.



### **Citizens' Oversight Committee (COC)**

- On 2/23, the COC Annual Report was advanced to the March 8<sup>th</sup> Board of Education Agenda.
- The next COC meeting is scheduled for April 25<sup>th</sup> at 6pm at the District Office.
- On 2/5, COC Meeting #4 was completed with the review and acceptance of the reconciliation report between the Measure S Audit for FY 2016/17 prepared by Christy White and Associates and the Program Budget through 12/31/17. The COC also reviewed and accepted the draft annual report prepared by the District and Program Manager with comments to be incorporated.
- On 1/24, COC Meeting #3 was completed and included a review of the FY 2016/17 Financial Audit. The District and Program Manager presented the Program Budget Summary (Budget vs. Actuals – Program Detail, By Budget Category) through 12/31/17, Updated Measure S Program Highlights and the December 2017 Report, including the Program Schedule and Cash Flow Projection.
- On 9/6, COC Meeting #2 was completed and the District and Program Manager updated the COC on program progress. The District and Program Manager presented the Measure S Program Highlights, the Preliminary Project Schedule, the Cash Flow Projects and the Draft August 2017 Report.
- COC Meeting #1 was completed on 5/24/17.
- COC Meeting agendas, meeting minutes, reports, and additional information can be found at <https://www.orangeusd.org/measure-s/citizens-oversight-committee>

### **Project Banners & Communications Plan Outline**

- The Program Manager is scheduled to issue the Draft Communications Plan Outline by March 9<sup>th</sup>.
- The Project Banners are in fabrication and the District has finalized the vendor contract and has reviewed and approved the vendor's insurance coverages.
- On 2/9, the District received the Architect's updated rendering to complete the banner for Canyon HS. The District finalized the banners for Orange HS, El Modena HS and Villa Park HS on 1/24.
- On 1/24, the District & Program Manager reviewed the approach for completion of the Communications Plan, which will also include a Business Outreach Plan to interest contractors in the Measure S Bond projects.
- The District and the Program Manager will coordinate services to ensure that redundancy does not occur with the communications management services to be provided by Communications Lab for the Measure S Program.

### **Program Wide Low Voltage & Security System**

- On 2/23, the Program Manager reviewed the Standard Specifications for the Low Voltage and Security Systems with the District IT Department.
- On 2/2, the Architect submitted the Standard Specifications for the Low Voltage and Security Systems.
- A Request for Proposal will be issued to approve the award of Program Wide Low Voltage and Security System Design Services Consultant agreement is anticipated for the April 12<sup>th</sup> Board of Education Meeting.



**Owner Furnished Contractor Installed (OFCI) Electrical Switchgear**

- The Program Manager is preparing an Agenda Item to approve the use of California Multiple Award Schedules (CMAS) for advancement to the March 22<sup>nd</sup> Board of Education Agenda.
- On 2/23, the Program Manager had received quotes from 2 different vendors for the OFCI Electrical Switchgear for Orange HS.
- On 2/7, the Program Manager finalized the scope of work and issued the Request for Quote to 2 different vendors for the purchase of the OFCI Electrical Switchgear for Orange HS by a California Multiple Award Schedules (CMAS) contract.
- The Program Manager is preparing Board Agenda Items for authorization to purchase the El Modena HS and Canyon HS Switchgear at the June 7<sup>th</sup> Board Meeting.

**Program Wide California Environmental Quality Act (CEQA) Consultant Services**

- The District's CEQA Consultants (PlaceWorks & Environmental Audit) are preparing CEQA compliance reports as follows:
  - Canyon HS (Environmental Audit) – Mitigated Negative Declaration
  - El Modena HS (PlaceWorks) – Categorical Exemption: Proposed Agenda Item at the March 8<sup>th</sup> Board of Education Meeting.
  - Orange HS (Environmental Audit) – Categorical Exemption: Proposed Agenda Item at the March 8<sup>th</sup> Board of Education Meeting.
  - Villa Park HS (PlaceWorks) – To be Determined
- On 2/22, The District, Architect and Construction Manager reviewed the project with the City of Villa Park. Traffic on Taft Avenue remains the area of biggest concern. The Architect's Traffic Engineer is preparing a proposal for additional traffic analysis for the District's review and consideration.
- **Possible CEQA Compliance Options**
  - Categorical Exemption – If a site-specific school project does not increase original student capacity by 25% or 10 classrooms, whichever is less, then a CEQA Class 14 Exemption may be applicable for that school.
  - Negative Declaration – If no significant impacts have been identified for the proposed project.
  - Mitigated Negative Declaration – Identifies mitigation measures if minor impacts that are less than significant can be mitigated to less than significant for the proposed project.
  - Environmental Impact Report – If significant impacts have been identified for the proposed project
  - NOTE: Except for Categorical Exemptions, the District may not release or certify CEQA documents until consultation with all associated Native American Tribe(s) has been initiated and concluded in accordance with Assembly Bill 52.



**Program Wide DSA Inspection Services**

- On 2/15, a total of 17 Resumes were received for the Orange HS Site Infrastructure Upgrade Project.
- On 2/1, an RFP was issued to the Bench Consultants for the Orange Site Infrastructure Upgrade Project; their proposal deadline is 2/15.
- On 1/18, the District's Board of Education approved the award of "bench" contracts to the following DSA Inspection services firms:
  - Inspection Service of California, Inc., dba BPI Inspection Service
  - Knowland Construction Services
  - Sandy Pringle Associates Inspection Consultants
  - Stephen Payte DSA Inspections, Inc.
  - TYR, Inc.
  - Vital Inspection Services Inc.

**Program Wide Commissioning Services**

- On 2/26, the Villa Park HS and Canyon HS Architects replied to Commissioning Agent's OPR Questionnaire.
- On 2/1, the Program Manager responded to the Commissioning Agent's comments on the Orange HS Basis of Design and Commissioning Specifications. The Program Manager also approved the OPR for Orange HS in accordance with the District's review.

**Program Wide Environmental & Hazardous Materials Consultant Services**

- The District is preparing to issue a contract to complete Hazardous Materials Testing & Inspection for the Orange HS Site Infrastructure Upgrades.
- The Villa Park HS Construction Manager is preparing the Hazardous Materials Testing & Inspection scope of work for the Program Manager to include with the RFP for the Bench Consultants.
- On 1/18, the District's Board of Education approved the award of "bench" contracts to the following Environmental & Hazardous Materials services firms:
  - A-Tech Consulting, Inc.
  - Bainbridge Environmental Consultants
  - Environmental Network Corporation, dba ENCORP
  - Group Delta
  - Ninyo & Moore Geotechnical & Environmental Sciences Consultants
  - Vista Environmental Consulting, Inc.



**Program Wide DSA Construction Material Testing & Geo-Technical Services**

- The Program Manager is responding to questions from the Bench Consultants for the Orange HS Infrastructure Upgrade Project and the proposal deadline has been extended to 3/15.
- The RFQ to the Bench Consultants for the Villa Park HS Project will be completed when the required CEQA scope has been defined.
- On 2/8, an RFP was issued to the Bench Consultants for the Orange HS Infrastructure Upgrade Project; their proposal deadline is 2/22.
- On 1/18, the District's Board of Education approved the award of "bench" contracts to the following DSA Construction Material Testing & Geo-Technical services firms:
  - American Engineering Laboratories, Inc.
  - Koury Engineering & Testing, Inc.
  - Ninyo & Moore Geotechnical & Environmental Sciences Consultants
  - Smith-Emery Laboratories
  - United Testing Corporation, dba United-Heider Inspection Group

**Orange High School Site Infrastructure Upgrade Project**

- Construction is scheduled to start and be completed during Summer Break 2018.
- The Program Manager is preparing an agenda item to approve the award of the construction contract for advancement to the May 8<sup>th</sup> Board of Education Meeting.
- The District's Maintenance & Operations Department has removed six trees where the Main Switchgear will be located and plans to modify and recommission the Rear Service Windows at the Main Kitchen in June 2018.
- On 1/3, the District's Maintenance & Operations Department completed the demolition of the Orange High School Portable Buildings T-20, 21, 22, 23 & 24 during the Winter Break 2017. This work also represents the first physical work for the Bond Program.

**Villa Park High School Interim Housing & Site Infrastructure Upgrade Project**

- Construction is scheduled to start in September 2018, subject to CEQA approval.
- On 2/6, DSA approved the 100% Construction Documents to DSA for Increment 1, Interim Housing & Site Infrastructure Upgrades.
- On 12/15, the Architect submitted the 100% Construction Documents to DSA.

**Canyon High School**

- Construction is scheduled to start in May 2019 and includes food services, site infrastructure upgrades and the STEM Building.
- The Architect and Construction Manager have revised the original plan for 3 Design Packages into 1 Design Package with Interim Housing to be completed with the STEM Building and site infrastructure. This revision is estimated to save the District approximately \$1 million because interim housing would no longer be required for Canyon High School Administration.





### **Contractor Pre-Qualification**

- The District continues review and scoring of Contractor Pre-Qualification Applications.
- On 2/21, the District had received and started the review of pre-qualification applications from 10 General Contractors and 6 Mechanical, Electrical or Plumbing Subcontractors.
- On 2/9, the Contractor Pre-Qualification Application was made accessible from the District's Measure S Website.
- On 1/24, the District issued the first advertisement of the Pre-qualification Application for submittal by General Contractors and Mechanical, Electrical and Plumbing Subcontractors.
- On 1/18, the District's Board of Education approved the Resolution Adopting the Prequalification Process for General Contractors and Mechanical, Electrical and Plumbing Subcontractors.

### **1.3 Look Ahead (next 90 days)**

- Manage Design progress, per the following schedule:
  - Mar 2018 - DSA Submittal of the El Modena HS STEM Building
  - May 2018 - DSA Submittal of the Canyon HS STEM Building
  - Aug 2018 - DSA Approval of the Orange HS STEM Building (Submitted Jan 24<sup>th</sup>)
  - Nov 2018 - DSA Approval of the Villa Park HS STEM Building (Submitted Mar 9<sup>th</sup>)
- Manage Program Wide California Environmental Quality Act (CEQA) Services (by District)
- Finalize Draft Program Management Plan (PMP)
- Finalize General Conditions and General Requirements Specifications Forms
- Issue Draft Communications Plan Outline
- Incorporate Program Manager's comments on the General Conditions and General Requirements Specifications for review by the District's Legal Counsel
- Complete Interviews for Prospective DSA Project Inspectors for the Orange HS Infrastructure Upgrade Project
- Finalize Bids for OFCI Electrical Switchgear for Orange HS by a California Multiple Award Schedules (CMAS) contract
- Continue Review of Contractor Pre-Qualification Applications
- Finalize Contract for Site Banners and Schedule Installation
- Prepare March 8<sup>th</sup> and March 22<sup>nd</sup> Board Agenda Items
- Reschedule Program-Wide Team Meeting #2, originally scheduled for 2/22
- Reschedule Program-Wide Open House, originally scheduled for 2/22
- Issue Owner's Project Requirements (OPR) for El Modena HS, Villa Park HS and Canyon HS for review and approval by the District





- **Board Agenda Items Look Ahead**

**March 8 Tentative**

- California Environmental Quality Act (CEQA) Categorical Exemption at Orange HS
- California Environmental Quality Act (CEQA) Categorical Exemption at El Modena HS
- Additional Architectural Design Services to Modify Restroom per Accessibility Requirements at Orange HS
- Notice of Completion for Portable Building Demolition at Orange HS
- Support for the Apportionment of Funding for the State's School Facilities Program
- Annual Report of the Citizens' Oversight Committee (Information Item)

**March 22 Tentative**

- Purchase Owner Furnished Contractor Installed (OFCI) Electrical Switchgear for Orange High School using CMAS Agreement
- Additional Architectural Design Services by HED to Modify Baseball Field at El Modena HS
- Additional Architectural Design Services by LPA for Site Traffic Analysis at Villa Park HS

**April 12 Tentative**

- Measure S Bond Program Update (Information Item)
- General Obligation Bond Market Update (Information Item)

**May 10 Tentative**

- California Environmental Quality Act (CEQA) Negative Declaration / Mitigated Negative Declaration at Canyon HS
- California Environmental Quality Act (CEQA) Negative Declaration / Mitigated Negative Declaration at Villa Park HS
- Measure S Bond Program Update (Information Item)

**May 24 Tentative**

- Award Construction Contract for Site Infrastructure Upgrade Project at Orange HS
- Measure S Bond Program Update (Information Item)

**June 7 Tentative**

- Purchase Owner Furnished Contractor Installed (OFCI) Electrical Switchgear El Modena High School
- Purchase Owner Furnished Contractor Installed (OFCI) Electrical Switchgear Canyon High School
- Measure S Bond Program Update (Information Item)



## 2.0 PROJECT STATUS REPORT



Canyon High School  
New STEM Building

CANYON HIGH SCHOOL



EL MODENA SCIENCE CENTER

Overall View

HED



Orange High School Science Center





## CANYON HS SCIENCE CENTER

- 12 Laboratory Rooms
- 12 General Classrooms
- Student Services
- New Food Services

- New Multi-Purpose Room Entry
- Parking Lot Improvements
- Infrastructure Upgrade and Improvements
- Landscape Improvements

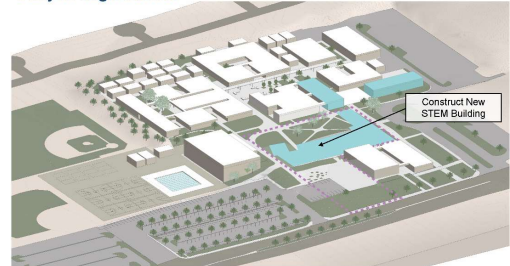
### Project Update:

- (2/28) – The Architect continues preparation of the 100% Construction Documents. DSA submittal is anticipated in May 2018.
- (2/15) – The Architect completed the Design Development Presentation to the Board of Education and the public at the Feb 15<sup>th</sup> Board Meeting.
- (2/1) – The Construction Manager has completed the constructability review and cost estimate for the 100% Design Development Package, which shows that the project remains on budget.
- (12/22) – The Architect has completed the Design Development phase and submitted the 100% Design Development Package to the District.
- (12/22) – The Design Team has restructured the Construction Bid Packages to include the relocation of Food Services into a temporary building rather than moving administration to a temporary building. This restructuring will reduce the cost by \$1M since Interim Housing will no longer be necessary for administration, who will remain in their current location until after completion of the STEM Building.

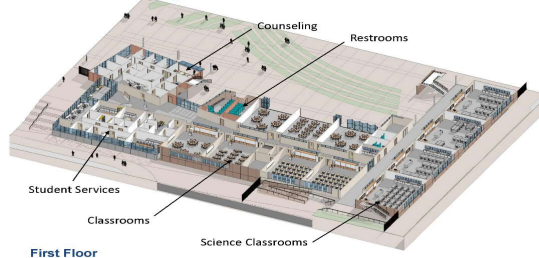
Canyon High School  
New STEM Building



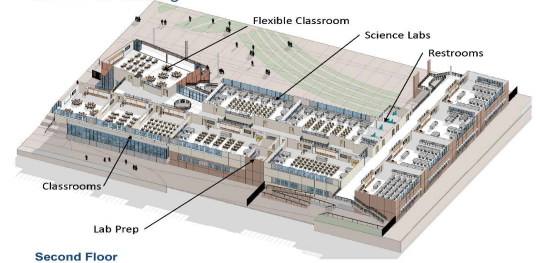
Canyon High School



Canyon High School  
New STEM Building



Canyon High School  
New STEM Building





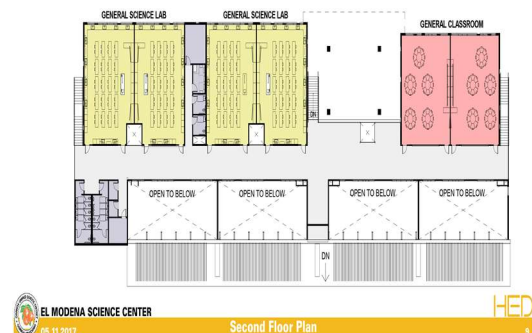


## EL MODENA HS SCIENCE CENTER

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>• 12 Laboratory Rooms</li><li>• 1 General Classrooms</li><li>• 2 Medically Fragile Classrooms</li></ul> | <ul style="list-style-type: none"><li>• Relocation of Campus MDF</li><li>• Technology &amp; Utility Upgrade</li><li>• Landscape Improvements</li></ul> |
|---|--|

### Project Update:

- (2/28) – The Architect continues preparation of the 100% Construction Documents. DSA submittal is anticipated on March 30, 2018.
- (2/23) – The Construction Manager has completed the constructability review and cost estimate for the 100% Design Development Package, which shows that the project remains on budget.
- (2/9) – The District issued comments on the DSA Application (DSA Form 1) for submittal of the 100% Construction Documents to DSA.
- (1/26) – The Architect has submitted the 95% Construction Documents to the District for review and comment. The DSA submittal date is estimated at 3/6/18.
- (1/18) – The Architect completed the Design Development Presentation to the Board of Education and the public during the Jan 18<sup>th</sup> Board Meeting.
- (12/8) – The Architect submitted the 50% Construction Document package to the District on 12/8.





## ORANGE HS SCIENCE CENTER

- 12 Laboratory Rooms
- 1 General Classrooms
- 2 Medically Fragile Classrooms

- New Panther Pavilion Plaza
- Relocation (5) and Demolition (4) of portable classroom buildings
- Site Utility & Infrastructure Upgrade

### Project Update:

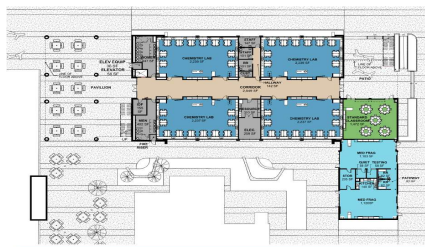
- (2/28) – The Architect is preparing to submit the 100% Construction Documents for the Satellite Kitchen to DSA on March 12, 2018.
- (1/24) – The Architect submitted the 100% Construction Documents for the STEM Building (DSA #116859) to DSA. DSA's comments are anticipated by April 2018.
- (1/11) – The District, Program Manager, Architect & Construction Manager have agreed to revise the sequence of work as follows:
- Start Construction Summer 2018 – Electrical Service/Infrastructure Upgrades and Electrical Yard Utility Infrastructure Upgrade
- Start Construction Late Summer/Fall 2018 – Bus Drop-off, Satellite Kitchen and Interior Utility Infrastructure, Relocatable Infrastructure and Girls Restroom Remodel & ADA Upgrades at 500A Building
- Complete Winter Break 2018 - Relocatable Move, Old Snack Bar Demolition
- Start Construction Late 2018/Early 2019 – STEM Building



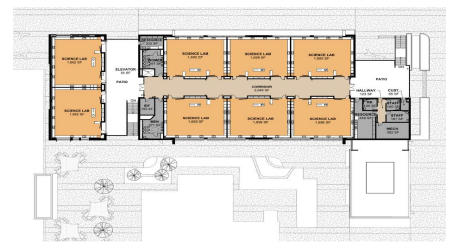
Orange High School Science Center



Orange High School Science Center



Science Center Ground Floor Plan



Science Center Second Floor Plan





## VILLA PARK HS SCIENCE CENTER

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• 12 Laboratory Rooms</li> <li>• 2 General Classrooms</li> <li>• 2 Medically Fragile Classrooms</li> </ul> | <ul style="list-style-type: none"> <li>• Demolish existing building 300</li> <li>• Install 10 New Portable Buildings</li> </ul> |
|---|---|

### Project Update:

- (2/28) – The Architect is scheduled to submit the 100% Construction Documents for the STEM Building to DSA on March 9, 2018. DSA approval is anticipated by November 2018.
- (2/23) – DSA approved the 100% Construction Documents to DSA for Increment 1, Interim Housing (DSA Application #04-116788).
- (2/22) – The District, Architect and Construction Manager reviewed the project with the City of Villa Park. Traffic on Taft Avenue remains the area of biggest concern. The Architect's Traffic Engineer is preparing a proposal for additional traffic analysis for the District's review and consideration.
- (1/18) – The Architect completed the Design Development Presentation to the Board of Education and the public during the Jan 18<sup>th</sup> Board Meeting.
- (12/5) – The Architect submitted the 100% Construction Documents for DSA Submittal Package #1 Interim Housing to DSA for review and approval (DSA Application #04-116788).



### 3.0 Financial Report



#### Measure S Bond Program

#### Budget vs Actuals - Program Summary, By Budget Category

#### Project Budget Estimate - Schematic Design Phase

Monthly Progress Report February 2018

QSS Data thru 2/28/18

	"A"	"B"	"C"	"D = A-B-C"
	Estimated Cost	Expended	Committed Balance / Encumbered	Balance
<b>Allocated Funds</b>				
1. Design Cost	\$9,679,947	\$5,017,876	\$4,662,071	\$0
2. Construction Cost	\$134,410,138	\$67,368	\$9,865	\$134,332,905
3. Program and Construction Management	\$12,706,686	\$1,618,068	\$7,473,556	\$3,615,062
* 4. Construction Support Costs	\$22,562,541	\$1,119,032	\$1,208,136	\$20,235,373
5. Contingency (Escalation, Construction, Project)	\$28,486,087	\$0	\$0	\$28,486,087
	<b>\$207,845,399</b>	<b>\$7,822,343</b>	<b>\$13,353,629</b>	<b>\$186,669,427</b>
<b>Unallocated Funds</b>				
1. Unallocated Bond Funds	\$80,154,601	\$0	\$0	\$80,154,601
	<b>\$80,154,601</b>	<b>\$0</b>	<b>\$0</b>	<b>\$80,154,601</b>
<b>Total Bond Program</b>	<b>\$288,000,000</b>	<b>\$7,822,343</b>	<b>\$13,353,629</b>	<b>\$266,824,028</b>

\*\* See Attachment for Details





## Measure S Bond Program

### Budget vs Actuals - Program Summary, By School w/ Budget Category

#### Project Budget Estimate - Schematic Design Phase

Monthly Progress Report February 2018

QSS Data thru 2/28/18

	"A"	"B"	"C"	"D = A-B-C"
	Estimated Cost	Expended	Committed Balance / Encumbered	Balance
<b>Canyon High School</b>				
<b>390-9520 Canyon HS Science Center</b>				
1. Design Cost	\$3,222,114	\$1,274,963	\$1,947,151	\$0
2. Construction Cost	\$45,638,681	\$0	\$0	\$45,638,681
3. Program and Construction Management	\$4,240,088	\$490,951	\$2,539,950	\$1,209,187
* 4. Construction Support Costs	\$7,659,116	\$67,825	\$370,469	\$7,220,822
5. Contingency (Escalation,Construction,Project)	\$8,740,001	\$0	\$0	\$8,740,001
	<b>\$69,500,000</b>	<b>\$1,833,740</b>	<b>\$4,857,569</b>	<b>\$62,808,691</b>
<b>390-TBD Canyon HS Unallocated Funds</b>				
1. Unallocated Bond Funds	\$2,500,000	\$0	\$0	\$2,500,000
	<b>\$2,500,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,500,000</b>
<b>Canyon High School</b>	<b>\$72,000,000</b>	<b>\$1,833,740</b>	<b>\$4,857,569</b>	<b>\$65,308,691</b>

## El Modena High School

<b>391-9520 El Modena HS Science Center</b>				
1. Design Cost	\$1,944,828	\$1,277,852	\$666,976	\$0
2. Construction Cost	\$27,866,000	\$0	\$0	\$27,866,000
3. Program and Construction Management	\$2,788,025	\$484,168	\$1,603,706	\$700,151
* 4. Construction Support Costs	\$4,553,757	\$348,970	\$83,353	\$4,121,434
5. Contingency (Escalation,Construction,Project)	\$3,604,201	\$0	\$0	\$3,604,201
	<b>\$40,756,811</b>	<b>\$2,110,990</b>	<b>\$2,354,035</b>	<b>\$36,291,786</b>
<b>391-TBD El Modena HS Unallocated Funds</b>				
1. Unallocated Bond Funds	\$31,243,189	\$0	\$0	\$31,243,189
	<b>\$31,243,189</b>	<b>\$0</b>	<b>\$0</b>	<b>\$31,243,189</b>
<b>El Modena High School</b>	<b>\$72,000,000</b>	<b>\$2,110,990</b>	<b>\$2,354,035</b>	<b>\$67,534,975</b>

\* See Attachment for Details



## Measure S Bond Program

### Budget vs Actuals - Program Summary, By School w/ Budget Category

#### Project Budget Estimate - Schematic Design Phase

Monthly Progress Report February 2018

QSS Data thru 2/28/18

	"A"	"B"	"C"	"D = A-B-C"
	Estimated Cost	Expended	Committed Balance / Encumbered	Balance
<b>Orange High School</b>				
<b>392-9520 Orange HS Science Center</b>				
1. Design Cost	\$2,323,819	\$1,375,958	\$947,861	\$0
2. Construction Cost	\$33,677,228	\$67,368	\$9,865	\$33,599,995
3. Program and Construction Management	\$2,879,008	\$228,518	\$1,733,999	\$916,491
* 4. Construction Support Costs	\$5,425,103	\$409,698	\$153,835	\$4,861,570
5. Contingency (Escalation,Construction,Project)	\$8,083,430	\$0	\$0	\$8,083,430
	<b>\$52,388,588</b>	<b>\$2,081,542</b>	<b>\$2,845,560</b>	<b>\$47,461,486</b>
<b>392-TBD Orange HS Unallocated Funds</b>				
1. Unallocated Bond Funds	\$19,611,412	\$0	\$0	\$19,611,412
	<b>\$19,611,412</b>	<b>\$0</b>	<b>\$0</b>	<b>\$19,611,412</b>
<b>Orange High School</b>	<b>\$72,000,000</b>	<b>\$2,081,542</b>	<b>\$2,845,560</b>	<b>\$67,072,898</b>
<b>Villa Park High School</b>				
<b>394-9520 Villa Park HS Science Center</b>				
1. Design Cost	\$2,189,186	\$1,089,102	\$1,100,084	\$0
2. Construction Cost	\$27,228,229	\$0	\$0	\$27,228,229
3. Program and Construction Management	\$2,799,565	\$414,430	\$1,595,902	\$789,233
* 4. Construction Support Costs	\$4,924,565	\$292,538	\$600,480	\$4,031,547
5. Contingency (Escalation,Construction,Project)	\$8,058,455	\$0	\$0	\$8,058,455
	<b>\$45,200,000</b>	<b>\$1,796,071</b>	<b>\$3,296,465</b>	<b>\$40,107,464</b>
<b>394-TBD Villa Park HS Unallocated Funds</b>				
1. Unallocated Bond Funds	\$26,800,000	\$0	\$0	\$26,800,000
	<b>\$26,800,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$26,800,000</b>
<b>Villa Park High School</b>	<b>\$72,000,000</b>	<b>\$1,796,071</b>	<b>\$3,296,465</b>	<b>\$66,907,464</b>
<b>Total Bond Program</b>	<b>\$288,000,000</b>	<b>\$7,822,343</b>	<b>\$13,353,629</b>	<b>\$266,824,028</b>

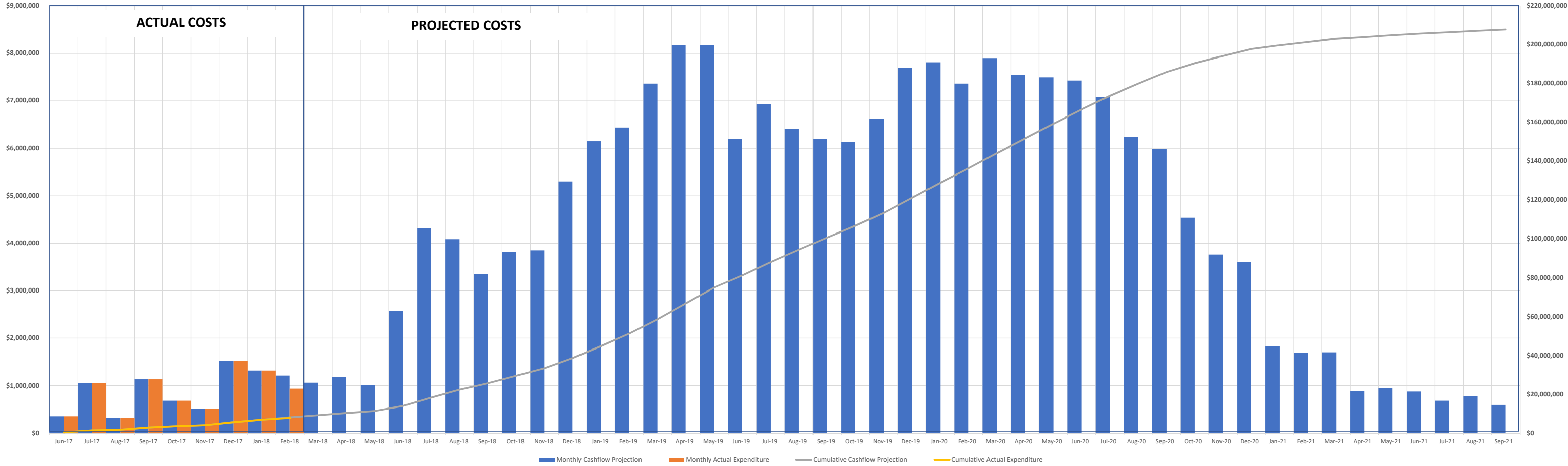
\* See Attachment for Details



MEASURE S BOND PROGRAM - SCIENCE CENTER CASH FLOW PROJECTION

Actual Costs thru February 28, 2018

Projected Costs thru September 30, 2021



CONSTRUCTION TIMELINE																			
Canyon HS STEM Bldg																			
El Modena HS STEM Bldg																			
Orange HS Site Improvements																			
Orange HS STEM Bldg																			
Villa Park HS Site Improvements																			
Villa Park HS STEM Bldg																			

	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
Monthly Cash Flow Projection	\$352,744	\$1,055,850	\$318,891	\$1,132,180	\$678,966	\$505,752	\$1,523,203	\$1,317,281	\$1,212,566	\$1,060,870	\$1,179,218	\$1,009,556	\$2,574,145	\$4,317,838	\$4,084,755	\$3,347,828	\$3,819,349	\$3,850,606	\$5,303,240
Monthly Actual Expenditure	\$352,744	\$1,055,850	\$318,891	\$1,132,180	\$678,966	\$505,752	\$1,523,203	\$1,317,281	\$937,477										
Cumulative Cash Flow Projection	\$352,744	\$1,408,594	\$1,727,485	\$2,859,665	\$3,538,630	\$4,044,382	\$5,567,585	\$6,884,866	\$8,097,432	\$9,158,301	\$10,337,519	\$11,347,075	\$13,921,220	\$18,239,058	\$22,323,813	\$25,671,640	\$29,490,989	\$33,341,595	\$38,644,835
Cumulative Actual Expenditure	\$352,744	\$1,408,594	\$1,727,485	\$2,859,665	\$3,538,630	\$4,044,382	\$5,567,585	\$6,884,866	\$7,822,343										
Cumulative Variance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275,089										

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
Monthly Cash Flow Projection	\$6,147,363	\$6,439,668	\$7,360,940	\$8,172,214	\$8,172,638	\$6,195,044	\$6,935,386	\$6,406,193	\$6,196,927	\$6,130,450	\$6,616,525	\$7,699,793
Monthly Actual Expenditure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Cash Flow Projection	\$44,792,198	\$51,231,866	\$58,592,806	\$66,765,020	\$74,937,657	\$81,132,702	\$88,068,088	\$94,474,281	\$100,671,208	\$106,801,659	\$113,418,183	\$121,117,976
Cumulative Actual Expenditure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Variance												

	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
Monthly Cash Flow Projection	\$7,811,740	\$7,361,275	\$7,900,967	\$7,545,895	\$7,495,163	\$7,428,298	\$7,074,965	\$6,244,562	\$5,984,078	\$4,538,115	\$3,761,471	\$3,603,297
Monthly Actual Expenditure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Cash Flow Projection	\$128,929,716	\$136,290,991	\$144,191,958	\$151,737,853	\$159,233,016	\$166,661,314	\$173,736,279	\$179,980,840	\$185,964,918	\$190,503,033	\$194,264,504	\$197,867,801
Cumulative Actual Expenditure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Variance												

	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
Monthly Cash Flow Projection	\$1,831,026	\$1,686,894	\$1,701,473	\$884,817	\$949,331	\$875,790	\$680,318	\$773,325	\$594,624
Monthly Actual Expenditure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Cash Flow Projection	\$199,698,827	\$201,385,721	\$203,087,194	\$203,972,011	\$204,921,341	\$205,797,132	\$206,477,450	\$207,250,775	\$207,845,399
Cumulative Actual Expenditure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Variance									

- Notes:**
- 1) Cashflow Projection is based on earned value following the current Project Schedule for STEM Bldg only.
  - 2) Amount shown for June 2017 thru January 2018 are Actual Check Payments
  - 3) Purchase for IT Infrastructure is allocated at the beginning of Construction; FF&E purchase is towards the end of Construction
  - 4) Unallocated Funds of \$80,154,601 is not included in the Cashflow Projection

Measure S Bond Funds		
	Allocated	Unallocated
Canyon HS	\$69,500,000	\$2,500,000
El Modena HS	\$40,756,811	\$31,243,189
Orange HS	\$52,388,588	\$19,611,412
Villa Park HS	\$45,200,000	\$26,800,000
	\$207,845,399	\$80,154,601



OUSD Program Milestones

Data Date:28-Feb-18

Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	2018				2019				2020				2021			
						1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>OUSD Orange High School</b>	464	435	24-Oct-17 A	05-Jan-20	11																
<b>Orange High School - Site Improvement</b>	141	113	24-Oct-17 A	19-Sep-18	333																
Board Approval of Project / Schematic Design - Bid #1	0	0		07-Nov-17 A																	
DSA Submittal - Bid #1	0	0	24-Oct-17 A																		
DSA Approval- Bid #1	0	0		10-Apr-18	10		◆														
Bid Issuance - Bid #1	0	0	25-Jan-18 A																		
Award of Contract (Board Date) - Bid #1	0	0		24-May-18	0		◆														
Construction Start - Bid #1	0	0	14-Jun-18		10			◆													
Construction Complete - Bid #1	0	0		10-Sep-18	340				◆												
Commissioning - Bid #1	5	5	06-Aug-18	10-Aug-18	41																
FF&E - Bid #1	12	12	10-Aug-18	21-Aug-18	517																
Close-out - Bid #1	36	36	15-Aug-18	19-Sep-18	0																
<b>Orange High School - Science Building (</b>	464	385	02-Feb-18 A	05-Jan-20	11																
Board Approval of Project / Schematic Design - Bid #2	0	0		02-Feb-18 A																	
DSA Submittal - Bid #2	0	0	05-Feb-18 A																		
DSA Approval- Bid #2	0	0		20-Jun-18	0			◆													
Bid Issuance - Bid #2	0	0	22-Jun-18		8			◆													
Award of Contract (Board Date) - Bid #2	0	0		02-Aug-18	0				◆												
Construction Start - Bid #2	0	0	31-Aug-18		4				◆												
Construction Complete - Bid #2	0	0		09-Oct-19	67								◆								
Commissioning - Bid #2	94	94	02-Jul-19	03-Oct-19	26																
FF&E - Bid #2	96	96	02-Oct-19	05-Jan-20	15																
Close-out - Bid #2	28	28	02-Oct-19	29-Oct-19	0																
<b>OUSD Canyon High School</b>	979	922	07-Mar-17 A	30-Nov-21	0																
<b>Canyon High School Modernization</b>	979	922	07-Mar-17 A	30-Nov-21	0																
Board Approval of Project / Schematic Design	0	0	07-Mar-17 A																		
DSA Submittal	95	95	21-May-18	28-Sep-18	827																
DSA Approval	40	40	05-Nov-18	28-Dec-18	762																
Bid Issuance	40	40	04-Feb-19	29-Mar-19	697																
Award of Contract (Board Date)	0	0	02-May-19		674																
Construction Start	0	0	22-May-19		660																
Construction Completion	0	0		19-Oct-21	30																◆
Commissioning	20	20	22-Sep-21	19-Oct-21	30																
FF&E	10	10	29-Sep-21	12-Oct-21	35																
Close Out	23	23	29-Oct-21	30-Nov-21	0																
<b>OUSD Villa Park High School</b>	985	753	10-Apr-17 A	15-Jan-21	-40																
<b>Science Center</b>	985	746	10-Apr-17 A	15-Jan-21	-40																
Board Approval of Project/Schematic Design	0	0	10-Apr-17 A																		
DSA Submittal	0	0	09-Mar-18*		569	◆															
DSA Approval	0	0	29-Mar-19*		431						◆										
Bid Issuance	6	6	14-May-19*	21-May-19	393							■									
Award of Contract (Board Date)	11	11	26-Jul-19*	09-Aug-19	335								■								
Start Construction	0	0	06-Sep-19*		316								◆								
Construction Completion	0	0	07-Sep-20*		25												◆				

Remaining Level of Effort    Actual Work    Critical Remaining Work  
Actual Level of Effort    Remaining Work    Milestone



OUSD Program Milestones

Data Date:28-Feb-18

Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	2018				2019				2020				2021			
						1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Commissioning	262	262	06-Sep-19*	07-Sep-20	54																
FF&E Installation	40	40	07-Sep-20*	30-Oct-20	15																
Close Out	25	25	14-Dec-20*	15-Jan-21	-40																
Interim Housing	485	341	10-Aug-17 A	19-Jun-19	372																
Board Approval of Project/Schematic Design	82	2	10-Aug-17 A	01-Mar-18	711																
DSA Submittal	0	0	11-Dec-17 A																		
DSA Approval	0	0	06-Feb-18 A																		
Bid Issuance	1	1	01-Jun-18*	01-Jun-18	645		I														
Award of Contract (Board Date)	13	13	24-Sep-18*	10-Oct-18	552																
Start Construction	0	0	26-Oct-18*		541																
Construction Completion	0	0	06-May-19*		405																
FF&E Installation	10	10	06-May-19*	17-May-19	395																
Close-Out	33	33	06-May-19*	19-Jun-19	372																
OUSD El Modena High School	1001	778	11-May-17 A	29-Apr-21	0																
Science Center	1001	778	11-May-17 A	29-Apr-21	0																
Board Approval of Project/Schematic Design	0	0		11-May-17 A																	
DSA Submittal	0	0	30-Mar-18		785																
DSA Approval	0	0		20-Aug-18	685																
Bid Issuance	0	0	04-Oct-18		653																
Award of Contract (Board Date)	0	0		10-Jan-19	587																
Construction Start	0	0	08-Feb-19		567																
Construction Completion	0	0		28-Sep-20	150																
Commissioning	180	180	28-Jan-20	08-Oct-20	86																
FF&E	50	50	30-Jul-20	08-Oct-20	128																
Close-Out	89	89	28-Dec-20	29-Apr-21	0																

Remaining Level of Effort

Actual Work

Critical Remaining Work

Actual Level of Effort

Remaining Work

Milestone

**Board of Education**

Rick Ledesma, President  
John Ortega, Vice President  
Kathryn Moffat, Clerk  
Alexia Deligianni-Brydges, Ed. D  
Brenda Lebsack  
Timothy Surridge

Gunn Marie Hansen, Ph.D.  
**Superintendent**

Ronald N. Lebs  
**Assistant Superintendent**  
**Facilities & Planning Department**



Facilities & Planning Department  
Measure S Bond Program  
726 W. Collins Avenue  
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