



AIA[®] Document G709[™] – 2001

Work Changes Proposal Request

PROJECT:
Mesa College Math & Natural Sciences Bldg.
7250 Mesa College Drive
San Diego, CA 92111

OWNER:
San Diego Community College District
3375 Camino Del Rio South
San Diego, CA 92108

FROM ARCHITECT:
Architects | Delawie Wilkes Rodrigues Barker
2265 India Street
San Diego, CA 92101

TO CONSTRUCTION MANAGER:
McCarthy Building Companies
6165 Greenwich Drive, Suite 340
San Diego, CA 92122

PROPOSAL REQUEST No: 062

DATE OF ISSUANCE: 11/13/12

CONTRACT FOR: General Construction

CONTRACT DATE:

ARCHITECT'S PROJECT No: 09110

Distribution List

- Owner:
- Architect:
- Consultant:
- Contractor:
- Field:
- Other (CM):

Please submit an itemized proposal for changes in the Contract Sum and Contract Time for proposed modifications to the Contract Documents described herein. Within seven (7) days, the Contractor must submit this proposal or notify the Architect, in writing, of the date on which proposal submission is anticipated.

THIS IS NOT A CHANGE ORDER, A CONSTRUCTION CHANGE DIRECTIVE, OR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED IN THE PROPOSED MODIFICATIONS.

DESCRIPTION:

Consistent with DSA IR A-6, DSA approval is not required for changes that do not pertain to Code-regulated construction. This Proposal Request modifies the DSA Approved documents dated 5/31/11 with the following:

During the design process of the Math & Science Building, the District Standard for projection screens was the Da-Lite 100" diagonal with a 4:3 proportion per Jill Baker (Mesa A/V). Subsequently, the District Standard has been revised to the Da-Lite 113" diagonal 60"x96" 16:10 proportion (per Kevin Branson email dated 11/7/12).

This PR revised the projection screens to the new District Standard.

ATTACHMENTS:

[Spec 115213](#)

REQUESTED BY THE ARCHITECT:

Randy Dolph
(Signature)

11/13/12
(Date)

Randy Dolph, Architect
(Printed Name and Title)

OWNER APPROVAL:

(Signature)

(Date)

(Printed Name and Title)

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User Notes:

(1967066114)

TABLE OF CONTENTS

VOLUME 1

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

003132 Geotechnical Data 05/24/11

DIVISION 01 - GENERAL REQUIREMENTS

011000 Summary 05/24/11

012300 Alternates 05/24/11

012500 Substitution Procedures 05/24/11

012600 Contract Modification Procedures (Revised) 12/23/11

013100 Project Management and Coordination 05/24/11

013300 Submittal Procedures 05/24/11

014000 Quality Requirements 05/24/11

014200 References 05/24/11

015000 Temporary Facilities, Controls and Special Instructions to Trade (Revised) 06/22/11

Contractors

015639 Temporary Tree and Plant Protection 05/24/11

016000 Product Requirements 05/24/11

017300 Execution Requirements 05/24/11

017419 Construction Waste Management and Disposal 05/24/11

017700 Closeout Procedures 05/24/11

017823 Operation and Maintenance Data 05/24/11

017839 Project Record Documents 05/24/11

017900 Demonstration and Training 05/24/11

018113 Sustainable Design Requirements 05/24/11

018114 LEED Submittal Forms 05/24/11

018114.01 LEED Material Cost Summary Form 05/24/11

018114.02 LEED Wood-Containing Product List Form 05/24/11

018114.03 LEED Metal-Containing Product List Form 05/24/11

018114.04 LEED Material Content Form 05/24/11

018114.05 LEED New Product Source Form 05/24/11

018114.06 LEED Reused Product Form 05/24/11

018114.07 LEED Prohibited Content Installer Certification Form 05/24/11

019113 General Commissioning Requirements 05/24/11

DIVISION 03 – CONCRETE

033000 Cast-In-Place Concrete (Revised) 09/07/11

033300 Architectural Concrete 05/24/11

033301 Lithocrete Sedimentary Wall System 05/24/11

034500 Precast Architectural Concrete (Revised) 09/28/11

034900 Glass-Fiber-Reinforced Concrete (GFRC) 05/24/11

035416 Hydraulic Cement Underlayment 05/24/11

DIVISION 04 – MASONRY

042200 Concrete Unit Masonry 05/24/11

DIVISION 05 – METALS

051200	Structural Steel Framing	(Revised)	08/03/11
053100	Steel Decking		05/24/11
054000	Cold-Formed Metal Framing		05/24/11
055000	Metal Fabrications		05/24/11
055100	Metal Stairs		05/24/11
057000	Decorative Metal		05/24/11
057300	Decorative Metal Railings		05/24/11

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

061053	Miscellaneous Rough Carpentry		05/24/11
061600	Sheathing		05/24/11
064023	Interior Architectural Woodwork		05/24/11

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

071326	Self-Adhering Sheet Waterproofing		05/24/11
071354	Thermoplastic Sheet Waterproofing		05/24/11
071416	Cold Fluid-Applied Waterproofing		05/24/11
071616	Crystalline Waterproofing		05/24/11
071900	Water Repellants		05/24/11
072100	Thermal Insulation	(Revised)	03/28/12
072500	Weather Barriers		05/24/11
074243	Composite Wall Panels		05/24/11
075419	Polyvinyl-Chloride (PVC) Roofing		05/24/11
076200	Sheet Metal Flashing and Trim		05/24/11
077129	Manufactured Roof Expansion Joints		05/24/11
077200	Roof Accessories		05/24/11
078100	Applied Fireproofing		05/03/11
078123	Intumescent Mastic Fireproofing		05/24/11
078413	Penetration Firestopping	(Revised)	04/16/12
078446	Fire-Resistive Joint Systems	(Revised)	04/16/12
079200	Joint Sealants		05/24/11
079500	Expansion Control		05/24/11

DIVISION 08 – OPENINGS

081113	Hollow Metal Doors and Frames		05/24/11
081416	Flush Wood Doors		05/24/11
083113	Access Doors and Frames		05/24/11
083323	Overhead Coiling Doors		05/24/11
084126	All-Glass Doors and Sidelites		05/24/11
084413	Glazed Aluminum Curtain Walls & Entrances		05/24/11
086200	Tubular Unit Skylights		05/24/11
087100	Door Hardware	(Revised)	10/08/12
087113	Automatic Door Operators		05/24/11
088000	Glazing		05/24/11
088300	Mirrors		05/24/11
089000	Louvers and Vents		05/24/11

DIVISION 09 – FINISHES

092116.23	Gypsum Board Shaft-Wall Assemblies		05/24/11
092216	Non-Structural Metal Framing		05/24/11
092400	Portland Cement Plastering		05/24/11
092900	Gypsum Board	(Revised)	03/28/12
093000	Tiling	(Revised)	01/11/12
095113	Acoustical Panel Ceilings		05/24/11
095426	Linear Wood Ceilings		05/24/11
096513	Resilient Base and Accessories		05/24/11
096516.13	Linoleum Flooring		05/24/11
096519	Resilient Floor Tile	(Revised)	06/18/12
096623	Resinous Matrix Terrazzo Flooring		05/24/11
096813	Tile Carpeting		05/24/11
097713	Stretched-Fabric Wall Systems		05/24/11
098100	Acoustical Insulation and Sealants	(Revised)	05/31/12
099113	Exterior Painting		05/24/11
099123	Interior Painting		05/24/11
099300	Staining and Transparent Finishes		05/24/11

DIVISION 10 – SPECIALTIES

101100	Visual Display Surfaces		05/24/11
101200	Display Cases		05/24/11
101400	Signage		05/24/11
102113	Toilet Compartments		05/24/11
102600	Wall Protection		05/24/11
102800	Toilet Accessories		05/24/11
104413	Life Safety Cabinets		05/24/11
104416	Fire Extinguishers		05/24/11
106600	Glass Partition Systems		05/24/11

DIVISION 11 – EQUIPMENT

110140	Building Maintenance Equipment		05/24/11
110250	Knox Vault Assemblies		05/24/11
113100	Appliances		05/24/11
115213	<u>Projection Screens</u>	(Revised)	11/13/12
115300	Laboratory Equipment		05/24/11
115313	Laboratory Fume Hoods		05/24/11
115319	Laboratory Sterilizers, Glassware Washers and Dryers		05/24/11

DIVISION 12 – FURNISHINGS

122413	Roller Window Shades		05/24/11
123553.14	Stainless Steel Laboratory Casework and Furnishings	(Revised)	07/29/11
123553.19	Wood Laboratory Casework and Furnishings	(Revised)	03/07/12
124813	Entrance Floor Mats and Frames		05/24/11
126100	Fixed Seminar Tables		05/24/11
129300	Site Furnishings		05/24/11

DIVISION 13 – SPECIAL CONSTRUCTION

133413.13	Greenhouses		05/24/11
-----------	-------------	--	----------

DIVISION 14 – CONVEYING EQUIPMENT

142000	Elevators	(Revised)	06/15/11
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VOLUME 2

DIVISION 21 – FIRE SUPPRESSION

211200	Fire-Suppression Standpipes	05/24/11
211313	Wet-pipe Sprinkler Systems	05/24/11

DIVISION 22 – PLUMBING

220500	Common Work Results For Plumbing	05/24/11
220513	Common Motor Requirements For Plumbing Equipment	05/24/11
220516	Expansion Fittings And Loops For Plumbing Piping	05/24/11
220519	Meters And Gages For Plumbing Piping	05/24/11
220523	General-Duty Valves For Plumbing Piping	05/24/11
220529	Hangers And Supports For Plumbing Piping And Equipment	05/24/11
220548	Vibration And Seismic Controls For Plumbing Piping And Equipment	05/24/11
220553	Identification For Plumbing Piping And Equipment	05/24/11
220700	Plumbing Insulation	05/24/11
221116	Domestic Water Piping	05/24/11
221119	Domestic Water Piping Specialties	05/24/11
221123	Domestic Water Pumps	05/24/11
221316	Sanitary Waste And Vent Piping	05/24/11
221319	Sanitary Waste Piping Specialties	05/24/11
221329	Sump Pumps and Lift Stations	05/24/11
221413	Storm Drainage Piping	05/24/11
221423	Storm Drainage Piping Specialties	05/24/11
223100	Domestic Water Softeners	05/24/11
223400	Fuel-Fired Domestic Water Heaters	05/24/11
224000	Plumbing Fixtures	05/24/11
226114	Compressed Air Piping For Laboratory Facilities	05/24/11
226120	Compressed Air Equipment For Laboratory Facilities	05/24/11
226214	Vacuum Piping For Laboratory Facilities	05/24/11
226220	Vacuum Equipment For Laboratory Facilities	05/24/11
226314	Gas Piping For Laboratory Facilities	05/24/11
226601	Laboratory Waste Systems for Laboratory Facilities	05/24/11
226701	Purified Water Systems For Laboratory Facilities	05/24/11
227000	Natural Gas Piping	05/24/11

DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING

230500	Common Work Results For HVAC	05/24/11
230513	Common Motor Requirements For HVAC Equipment	05/24/11
230516	Expansion Fittings And Loops For HVAC Piping	05/24/11
230519	Meters And Gages For HVAC Piping	05/24/11
230523	General-Duty Valves For HVAC Piping	05/24/11
230529	Hangers And Supports For HVAC Piping And Equipment	05/24/11
230548	Vibration and Seismic Controls for HVAC Piping And Equipment	05/24/11
230553	Identification For HVAC Piping And Equipment	05/24/11
230593	Testing, Adjusting, And Balancing For HVAC	05/24/11
230700	HVAC Insulation	05/24/11
230800	Commissioning	05/24/11
230900	Instrumentation And Control For HVAC	05/24/11
230993	Control Sequence	05/24/11
232113	Hydronic Piping	05/24/11
232300	Refrigerant Piping	05/24/11
232500	HVAC Water Treatment	05/24/11
233113	Metal Ducts	05/24/11
233300	Air Duct Accessories	05/24/11
233416	Centrifugal HVAC Fans	05/24/11
233423	HVAC Power Ventilators	05/24/11
233616	Variable Air Volume Terminal Units	05/24/11
233713	Diffusers, Registers, And Grilles	05/24/11
233723	HVAC Gravity Ventilators	05/24/11
234100	Particulate Air Filtration	05/24/11
237415	Custom Outdoor Air-Handling Units	05/24/11
238126	Split-System Air-Conditioners	05/24/11
238126.01	Multi Unit Split-System Air-Conditioners	05/24/11
238216	Air Coils	05/24/11
238219	Fan Coil Units	05/24/11

DIVISION 26 – ELECTRICAL

260500	Common Work Results for Electrical	05/24/11
260513	Medium Voltage Cables	05/24/11
260519	Low-Voltage Electrical Power Conductors and Cables	05/24/11
260526	Grounding and Bonding for Electrical Systems	05/24/11
260529	Hangers and Supports for Electrical Systems	05/24/11
260533	Raceway and Boxes for Electrical Systems	05/24/11
260536	Cable Trays for Electrical Systems	05/24/11
260543	Underground Ducts and Raceways for Electrical Systems	05/24/11
260544	Sleeves and Sleeve Seals For Electrical Raceways And Cabling	05/24/11
260553	Identification For Electrical Systems	05/24/11
260573	Fault Current and Overcurrent Protective Device Coordination Study	05/24/11
260583	Acceptance Testing for Electrical Systems	05/24/11
260923	Lighting Control Devices	05/24/11
260943	Network Lighting Controls	05/24/11
261116	Secondary Unit Substations	05/24/11
262200	Low-Voltage Transformers	05/24/11
262413	Switchboards	05/24/11
262416	Panelboards	05/24/11
262719	Multi-Outlet Assemblies	05/24/11
262726	Wiring Devices	05/24/11
262813	Fuses	05/24/11
262816	Enclosed Switches and Circuit Breakers	05/24/11
262913	Enclosed Controllers	05/24/11
263323	Central Battery Equipment	05/24/11
263600	Transfer Switches	05/24/11
264313	Surge Protective Devices for Low-Voltage Electrical Power Circuits	05/24/11
265100	Interior Lighting	05/24/11
265600	Exterior Lighting	05/24/11

DIVISION 27 – COMMUNICATIONS

275126	Assistive Listening Systems	05/24/11
275413	Rescue Assistance Signal System	05/24/11

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

281600	Intrusion Detection	05/24/11
283111	Digital, Addressable Fire Alarm System	05/24/11
285313	Master Clock	05/24/11

DIVISION 31 – EARTHWORK

311000	Site Clearing	05/24/11
312000	Earth Moving	05/24/11
316329	Drilled Concrete Piers and Shafts	05/24/11

DIVISION 32 – EXTERIOR IMPROVEMENTS

321216	Asphalt Paving	05/24/11
321313	Concrete Paving	05/24/11
321316	Decorative Concrete Toppings	05/24/11
321317	Lithocrete Architectural Concrete Paving	05/24/11
321373	Concrete Paving Joint Sealants	05/24/11
328400	Planting Irrigation	05/24/11
329300	Plants	05/24/11

DIVISION 33 – UTILITIES

331116	Site Utility Water Distribution Piping	05/24/11
333000	Facility Sanitary Sewers Outside the Building	05/24/11
334100	Storm Utility Drainage Piping	05/24/11

END OF TABLE OF CONTENTS

SECTION 115213 - PROJECTION SCREENS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Front-projection screens, ceiling recessed, motorized.
 - a. In congressional classrooms 309, 311, 313, 409, 411, 413.
 - b. Manual front-projection screens in all other classrooms and teaching labs are N.I.C. (OFOI).
- B. Related Sections include the following:
 - 1. Division 9 Section "Non-Structural Metal Framing" for metal backing for recessed screen installation.
 - 2. Division 26 Sections for electrical service and connections including metal device boxes for switches and conduit, where required, for low-voltage control wiring.

1.3 DEFINITIONS

- A. Gain of Front-Projection Screens: Ratio of light reflected from screen material to that reflected perpendicularly from a magnesium carbonate surface as determined per SMPTE RP 94.
- B. Half-Gain Angle: The angle, measured from the axis of the screen surface, to the most central position on a perpendicular plane through the horizontal centerline of the screen where the gain is half of the peak gain.

1.4 SUBMITTALS

- A. Product Data: For each type of screen indicated.
- B. Shop Drawings: Show layouts and types of projection screens. Include the following:
 - 1. Location of screen centerline relative to ends of screen case.
 - 2. Location of wiring connections.
 - 3. Drop length.
 - 4. Connections to supporting structure for pendant- and recess-mounted screens.
 - 5. Anchorage details.
 - 6. Details of juncture of exposed surfaces with adjacent finishes.
 - 7. Accessories.
 - 8. Wiring Diagrams: For electrically operated units.
- C. Maintenance Data: For projection screens to include in maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain projection screens through one source from a single manufacturer. Obtain each screen as a complete unit, including necessary mounting hardware and accessories.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver projection screens until building is enclosed and other construction within spaces where screens will be installed is substantially complete and ready for screen installation.

1.7 COORDINATION

- A. Coordinate layout and installation of projection screens with adjacent construction, including ceiling framing, light fixtures, HVAC equipment, fire-suppression system, and partitions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Basis-of-Design Products: Subject to compliance with requirements, provide the following:
 - a. Da-Lite Screen Company.

Or a comparable product by one of the following, subject to compliance with performance requirements, Division 01 Section "Product Requirements," and District approval:

- b. Draper Inc.
- c. Or Comparable Equal.

2.2 FRONT-PROJECTION SCREENS

- A. Electrically Operated Screens, General: Manufacturer's standard units consisting of case, screen, motor, controls, mounting accessories, and other components necessary for a complete installation. Provide units that are listed and labeled as an assembly by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

1. Low-Voltage Control: System consisting of a control unit with 24-V power supply, remote 3-button or 3-position switches, and interconnecting wiring. Switches are installed in recessed metal device boxes with flush cover plates matching other electrical device cover plates in room where switch is installed.
 - a. Coordinate switch location with teaching podium and with District's A/V Representative.
 - b. Control switch shall comply with CBC Section 1117B.6 for accessible approach, mounting height, and operation.
2. Motor: Instant-reversing motor of size and capacity recommended by screen manufacturer; with permanently lubricated ball bearings, automatic thermal-overload protection, preset limit switches to automatically stop screen in up and down positions, and positive-stop action to prevent coasting.
3. Screen Mounting: Top edge securely anchored to rigid metal roller and bottom edge formed into a pocket holding a 3/8-inch-diameter metal rod with ends of rod protected by plastic caps.

- B. Recessed, Electrically Operated Screens with Automatic Ceiling Closure: Motorized units designed and fabricated for recessed installation in ceiling; with bottom of case composed of two panels fully enclosing screen, motor, and wiring, one panel hinged and designed to open and close automatically when screen is lowered and fully raised, the other removable or openable for access to interior of case.

1. Basis-of-Design Product:
 - a. Da-Lite Screen Company; Da-Lite Advantage Electrol, Model #84229-L (with built-in low voltage controller).
 - b. Or Comparable Equal.
2. Provide metal or metal-lined wiring compartment on units with motor in roller.
3. Provide screen case constructed to be installed with underside flush with ceiling.
4. Finish on Exposed Surfaces: Baked enamel.

- C. Screen Material and Viewing Surface:

1. Matte Reflective Viewing Surface: Match surface of Owner-Furnished Owner-Installed screens.
2. Flame Resistance: Passes NFPA 701.
3. Flame-Spread Index: Not greater than 75 when tested according to ASTM E 84.
4. Seamless Construction: Provide screens, in sizes indicated, without seams.
5. Edge Treatment: Without black masking borders.
6. Viewing Surface:
 - a. Format: 4:3 **16:10**.
 - b. Size: ~~60 inches by 80 inches~~ **60 inches by 96 inches**.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install projection screens at locations indicated to comply with screen manufacturer's written instructions.
- B. Install front-projection screens with screen cases in position and in relation to adjoining construction indicated. Securely anchor to supporting substrate in a manner that produces a smoothly operating screen with vertical edges plumb and viewing surface flat when screen is lowered.
 - 1. Install low-voltage controls according to NFPA 70 and manufacturer's written instructions.
 - a. Wiring Method: Install wiring in raceway except in accessible ceiling spaces and in gypsum board partitions where unenclosed wiring method may be used. Use UL-listed plenum cable in environmental air spaces, including plenum ceilings. Conceal raceway and cables except in unfinished spaces.
 - 2. Test electrically operated units to verify that screen controls, limit switches, closure, and other operating components are in optimum functioning condition.

3.2 PROTECTING AND CLEANING

- A. After installation, protect projection screens from damage during construction. If damage occurs despite such protection, remove and replace damaged components or entire unit as required to provide units in their original, undamaged condition.

END OF SECTION 115213