

Specifications - Four Exterior Classrooms

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #S70-1
Description	(4) Classrooms with integral corridor. End Unit.
Exterior Dimensions	56' x 70' (3,920 sq-ft nominal).
Classroom Dimensions	28' x 31' (868 sq-ft nominal).
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required.
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Underlayment	Factory-installed, 1/4" or 1/2" hardbacker throughout.
Insulation	Kraft-faced R-22 or as required by code.
Bottom Board	Plastic, roll type.
Floor Live Load	50 PSF in classrooms and 100 PSF in corridor or as required by code.
Floor Covering - Classrooms and Corridor	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Floor Covering - Corridor Entry	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies.
Cove Base	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal.
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Outside Corners - Corridor Only	Model 169V 2" x 2" x 8' 6" vinyl with Model 168A metal track as manufactured by InPro, or equal.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8'6" minimum nominal wall height. Double top plate and single bottom plate.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate. 8'6" minimum nominal wall height.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mate lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Foundation Enclosure	5/16" Hardipanel® to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantity as required by code.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Corridor	1-hour rated walls and ceilings or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 1/4":12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
Roof Insulation	R-38 Kraft-faced or as required by code.
Roof Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'6" nominal ceiling height.
Windows	
Windows	(2) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass per classroom.
Window Accessories	(2) 48" x 48", 1" Ascot, horizontal lower mini-blinds per classroom.
Doors and Door Hardware	
Main Entry Doors	See attached door schedule.
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panels sized as required by code. Location as shown.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Corridor	Electronic ballast with energy efficient lamps and infrared occupancy sensors. Battery backup.
Lighting - Exterior	(1) 100-watt metal halide light and (1) remote head with battery back-up per exit door.
Lighting - Emergency	As required by code.
Classroom - Voice, Data, CATV, Fire Alarm, PA and Security	(1) 4" x 4" and (6) 2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to below finished floor per classroom. Locations to be determined.
Switches and Receptacles	Ivory with unbreakable plastic cover plates.
Electrical - Other	As required by code.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
Security System	Factory to install rough in junction boxes as required. System labor and material by Others.
PA System	System labor and material by Others.
Voice	System labor and material by Others.
Data	System labor and material by Others.
CATV	System labor and material by Others.
HVAC	
Air Conditioning Unit	(4) Bard Model W***-A1-A-**-P-X-X-X-X electric heat/cool unit, or Marvail equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(4) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvail equal.
Diffuser	Factory standard directional diffusers.
Smoke/Fire Dampers	Model D-315WB fire or Model D-502 smoke/fire as manufactured by Leader Industries, or equal. Provide as required by code
Supply and Return Air Duct	Fiberglass. Galvanized as may be required by code in one-hour rated areas.
Return Air Plenum	Plenum wall. (1) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker or Bard equal per classroom. Located at 12" AFF.
Furnishings	
Fire Extinguisher	(1) 10# ABC with semi-recessed cabinet per exit.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw. Delete hardbacker underlayment.
Floor Covering - Classrooms	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw. Delete hardbacker underlayment.
Roof Mansard	Around full perimeter. 1 1/2" x 30" projection on 70' walls and 24" x 30" projection on 14' walls. Hardisoffit® vented panels.

Ceiling	2' x 4' "Baroque" accoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8'6" nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5' commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Air Conditioning Unit	(4) Bard Model W***-H1-A**-V-P-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
Carbon Dioxide Sensor	(4) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(2) Bard CS2000A, or Marvair equal.
Coat Hook Assembly	(4) 12" deep x 10' wide aluminum assembly with plastic coat hooks as manufactured by EMCO.
Markerboard	(4) Factory standard, 4' x 12' porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Tackboard	(8) Factory standard, 4' x 4' cork boards with aluminum frame.
Storage Closet	(4) 3' x 5' with wire shelving at 72" AFF.

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Specifications - Two Center Classrooms

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #S70-2
Description	(2) Classrooms with integral corridor. Center unit.
Exterior Dimensions	28' x 70' (1,960 sq-ft nominal).
Classroom Dimensions	28' x 31' (868 sq-ft nominal).
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required.
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Underlayment	Factory-installed, 1/4" or 1/2" hardibacker throughout.
Insulation	Kraft-faced R-22 or as required by code.
Bottom Board	Plastic, roll type.
Floor Live Load	50 PSF in classrooms and 100 PSF in corridor or as required by code.
Floor Covering - Classrooms and Corridor	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal.
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Outside Corners - Corridor Only	Model 169V 2" x 2" x 8' 6" vinyl with Model 168A metal track as manufactured by InPro, or equal.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8'6" minimum nominal wall height. Double top plate and single bottom plate.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate. 8'6" minimum nominal wall height.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mate lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Foundation Enclosure	5/16" Hardipanel® to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantity as required by code.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Corridor	1-hour rated walls and ceilings or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 1/4":12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
Roof Insulation	R-38 Kraft-faced or as required by code.
Roof Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'6" nominal ceiling height.
Windows	
Windows	(2) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass per classroom.
Window Accessories	(2) 1" Ascot, horizontal louver mini-blinds per classroom.
Doors and Door Hardware	
Main Entry Doors	See attached door schedule.
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panels sized as required by code. Location as shown.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Corridor	Electronic ballast with energy efficient lamps and infrared occupancy sensors. Battery backup.
Lighting - Emergency	As required by code.
Classroom - Voice, Data, CATV, Fire Alarm, PA and Security	(1) 4" x 4" and (6) 2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to below finished floor per classroom. Locations to be determined.
Switches and Receptacles	Ivory with unbreakable plastic cover plates.
Electrical - Other	As required by code.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
Security System	Factory to install rough in junction boxes as required. System labor and material by Others.
PA System	System labor and material by Others.
Voice	System labor and material by Others.
Data	System labor and material by Others.
CATV	System labor and material by Others.
HVAC	
Air Conditioning Unit	(2) Bard Model W***-A1-A-**-P-P-X-X-X-X electric heat/cool unit, or Marvail equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(2) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvail equal.
Diffuser	Factory standard directional diffusers.
Smoke/Fire Dampers	Model D-315WB fire or Model D-502 smoke/fire as manufactured by Leader Industries, or equal. Provide as required by code
Supply and Return Air Duct	Fiberglass. Galvanized as may be required by code in one-hour rated areas.
Return Air Plenum	Plenum wall. (1) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker or Bard equal per classroom. Located at 12" AFF.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Floor Covering - Classrooms	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw. Delete hardibacker underlayment.
Floor Covering - Classrooms	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw. Delete hardibacker underlayment.
Roof Mansard	Around full perimeter. 1 1/2" x 30" projection on 70' walls and 24" x 30" projection on 14' walls. Hardisoffit® vented panels.
Ceiling	2' x 4' "Baroque" acoustical ceiling tile as manufactured by Certainteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8'6" nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.

Air Conditioning Unit	(2) Bard Model W***-H1-A**-V-P-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
Carbon Dioxide Sensor	(2) Bard 8403-056 CO2 sensor, or Marvair equal, with vent demand relay.
Energy Management Controller	(2) Bard CS2000A, or Marvair equal.
Coat Hook Assembly	(2) 12" deep x 10' wide aluminum assembly with plastic coat hooks as manufactured by EMCO.
Markerboard	(2) Factory standard, 4' x 12' porcelain on steel white board with aluminum frame and map rail with (4) hooks.
Tackboard	(4) Factory standard, 4' x 4' cork boards with aluminum frame.
Storage Closet	(2) 3' x 5' with wire shelving at 72" AFF.

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Specifications - Restrooms, Technology and Janitor Closet

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #S70-3
Description	(2) Restrooms (Boy's and Girl's), Staff restroom, Janitor Closet and Tech Closet. Center unit.
Exterior Dimensions	14' x 70' (980 sq-ft nominal).
Classroom Dimensions	N/A
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required.
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Underlayment	Factory-installed, 1/4" or 1/2" hardibacker throughout.
Insulation	Kraft-faced R-22 or as required by code.
Bottom Board	Plastic, roll type.
Floor Live Load	50 PSF or as required by code in Office, Boy's, Girl's and Staff restrooms and Janitor and Technology Closets. 100 PSF in corridor.
Floor Covering - Corridor	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Floor Covering - Restrooms	Factory installed, 80 mil, commercial grade "Connection Corlon" heat welded vinyl roll goods as manufactured by Armstrong.
Floor Covering - Janitor and Technology Closets	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies.
Cove Base - Corridor and Technology Closet	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe , or equal.
Cove Base - Restrooms and Janitor Closet	6" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe , or equal.
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Outside Corners - Corridor Only	Model 169V 2" x 2" x 8' 6" vinyl with Model 168A metal track as manufactured by InPro, or equal.
Interior Wall Finish - Restrooms and Janitor Closet	.030" FRP over APA-rated substrate. Full wall height.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8'6" minimum nominal wall height. Double top plate and single bottom plate.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate. 8'6" minimum nominal wall height.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mate lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Foundation Enclosure	5/16" Hardipanel® to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantity as required by code.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Corridor	1-hour rated walls and ceilings or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 1/4":12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
Roof Insulation	R-38 Kraft-faced or as required by code.
Roof Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'6" nominal ceiling height.
Doors and Door Hardware	
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panels sized as required by code. Location as shown.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Corridor	Electronic ballast with energy efficient lamps and infrared occupancy sensors. Battery backup.
Lighting - Emergency	As required by code.
Fire Alarm, PA and Security	2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to above finished ceiling. Locations to be determined.
Switches and Receptacles	Ivory with unbreakable plastic cover plates.
Electrical - Other	As required by code.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
Security System	Factory to install rough in junction boxes as required. System labor and material by Others.
PA System	System labor and material by Others.
HVAC	
Air Conditioning Unit	(1) Bard Model W***-A1-A-**-P-P-X-X-X-X electric heat/cool unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(1) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvair equal.
Diffuser	Factory standard directional diffusers.
Smoke/Fire Dampers	Model D-315WB fire or Model D-502 smoke/fire as manufactured by Leader Industries, or equal. Provide as required by code.
Exhaust Fan	(2) Model L500 500 CFM and (1) Model 676 110 CFM ceiling mounted as manufactured by Broan. Wire to light switch.
Supply and Return Air Duct	Fiberglass. Galvanized as may be required by code in one-hour rated areas.
Plumbing	
Piping	Type "L" copper supply. Schedule 40 PVC or ABS sanitary or as required by code.
Water Cooler	(1) Model VRCTL8SC stainless steel as manufactured by Elkay.
Service Sink	(1) Model MSB-2424, floor-mounted fiberglass service sink as manufactured by Fiat. Includes (1) Model 897-CP faucet as manufactured by Chicago Faucet.
Water Closet	(6) Madera Model 2234.015 vitreous china with elongated bowl as manufactured by American Standard. Royal 111 Model flush valve as manufactured by Sloan. Heavy duty Model 95SSC plastic seat as manufactured by Olsenite.
Water Closet	(3) Madera Model 3043.102 vitreous china with elongated bowl as manufactured by American Standard. Royal 111 Model flush valve as manufactured by Sloan. Heavy duty Model 95SSC plastic seat as manufactured by Olsenite. ADA compliant. Stainless steel grab bars.
Urinal	(2) Trimbrook Model vitreous china as manufactured by American Standard with Royal 186-1 Model flush valve as manufactured by Sloan.
Modesty Partitions	Floor-mounted, 1" thick HDPE, overhead braced toilet compartments as manufactured by Santana Products, Comtec Industries or Capitol Partitions. 15-year warranty.
Lavatory	(9) Comrade Model 18" x 20", vitreous china wall-hung as manufactured by American Standard. Factory standard. ADA compliant.

Lavatory Faucet	(1) Model 802-V665CP as manufactured by Chicago Faucet per lavatory.
Water Heater	(1) Electric water heater. Size as required by code.
Recirculating Pump	(1) Model UP15-42SF as manufactured by Grundfos.
Mirror	(1) 18" x 36" with stainless steel frame per lavatory.
Restroom Accessories	Soap, toilet paper, sanitary napkin and paper towel dispensers by Others.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Roof Mansard	Around full perimeter. 1 1/2" x 30" projection on 70' walls and 24" x 30" projection on 14' walls. Hardisoffit® vented panels.
Ceiling	2' x 4' "Baroque" accoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8'6" nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Air Conditioning Unit	(1) Bard Model W***-H1-A**-V-P-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.

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Specifications - Restrooms, Office/Workroom and Janitor Closet

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #S70-4
Description	(2) Restrooms (Boys and Girl's), Staff restroom, Janitor Closet and (1) Office/Workroom. Center unit.
Exterior Dimensions	14' x 70' (980 sq-ft nominal).
Office/Workroom Dimensions	14' x 19' (266 sq-ft nominal).
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required.
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Underlayment	Factory-installed, 1/4" or 1/2" hardibacker throughout.
Insulation	Kraft-faced R-22 or as required by code.
Bottom Board	Plastic, roll type.
Floor Live Load	50 PSF or as required by code in Office, Boy's, Girl's and Staff restrooms and Janitor Closet. 100 PSF in corridor.
Floor Covering - Office and Corridor	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Floor Covering - Restrooms	Factory installed, 80 mil, commercial grade "Connection Corlon" heat welded vinyl roll goods as manufactured by Armstrong.
Floor Covering - Janitor Closet	Factory installed, 75 mil, commercial grade "Coin Pattern" vinyl roll goods as manufactured by Better Life Technologies, or equal.
Cove Base - Office and Corridor	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe , or equal.
Cove Base - Restrooms and Janitor Closet	6" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe , or equal.
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Outside Corners - Corridor Only	Model 169V 2" x 2" x 8' 6" vinyl with Model 168A metal track as manufactured by InPro, or equal.
Interior Wall Finish - Restrooms and Janitor Closet	.030" FRP over APA-rated substrate. Full wall height.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8'6" minimum nominal wall height. Double top plate and single bottom plate.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate. 8'6" minimum nominal wall height.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mate lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Foundation Enclosure	5/16" Hardipanel® to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantity as required by code.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Corridor	1-hour rated walls and ceilings or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 1/4":12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
Roof Insulation	R-38 Kraft-faced or as required by code.
Roof Mansard	1 1/2" x 30" projection around full perimeter.
Roof Ventilation	As required by code. No rooftop vents.
Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'6" nominal ceiling height.
Windows	
Windows	(1) 48" x 48" vinyl frame, horizontal sliding windows with insect screens and low-E, double insulated glass per classroom.
Window Accessories	(1) 1" Ascot, horizontal louver mini-blinds.
Doors and Door Hardware	
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panels sized as required by code. Location as shown.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Corridor	Electronic ballast with energy efficient lamps and infrared occupancy sensors. Battery backup.
Lighting - Emergency	As required by code.
Office - Voice, Data, CATV, Fire Alarm, PA and Security	(6) 4" x 4" and (6) 2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to below finished floor. Locations to be determined.
Switches and Receptacles	Ivory with unbreakable plastic cover plates.
Electrical - Other	As required by code.
Electrical - Low Voltage	
Fire Alarm System	Factory to install rough in junction boxes as required. System labor and material by Others.
Security System	Factory to install rough in junction boxes as required. System labor and material by Others.
PA System	System labor and material by Others.
Voice	System labor and material by Others.
Data	System labor and material by Others.
CATV	System labor and material by Others.
HVAC	
Air Conditioning Unit	(1) Bard Model W***-A1-A-**-P-P-X-X-X electric heat/cool unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
HVAC System Warranty	5-year parts and 1-year labor.
Thermostat	(1) Bard Model 8403-060 electronic thermostat with auto changeover and Model 8405-033 lockable, plastic cover or Marvair equal.
Diffuser	Factory standard directional diffusers.
Smoke/Fire Dampers	Model D-315WB fire or Model D-502 smoke/fire as manufactured by Leader Industries, or equal. Provide as required by code.
Exhaust Fan	(3) Model 676 110 CFM ceiling mounted as manufactured by Broan. Wire to light switch.
Supply and Return Air Duct	Fiberglass. Galvanized as may be required by code in one-hour rated areas.
Return Air Plenum	Plenum wall. (1) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker or Bard equal. Located at 12" AFF.
Plumbing	
Piping	Type "L" copper supply. Schedule 40 PVC or ABS sanitary or as required by code.
Water Cooler	(1) Model VRCTL8SC stainless steel as manufactured by Elkay.
Service Sink	(1) Model MSB-2424, floor-mounted fiberglass service sink as manufactured by Fiat. Includes (1) Model 897-CP faucet as manufactured by Chicago Faucet.
Office/Work Room Sink	(1) Model PSRQ1918-2, 19" x 18" x 7 1/8" stainless steel sink and Model LKE4121 faucet as manufactured by Elkay.

Water Closet	(1) Madera Model 2234.015 vitreous china with elongated bowl as manufactured by American Standard. Royal 111 Model flush valve as manufactured by Sloan. Heavy duty Model 95SSC plastic seat as manufactured by Olsenite.
Water Closet	(3) Madera Model 3043.102 vitreous china with elongated bowl as manufactured by American Standard. Royal 111 Model flush valve as manufactured by Sloan. Heavy duty Model 95SSC plastic seat as manufactured by Olsenite. ADA compliant. Stainless steel grab bars.
Urinal	(1) Trimbrook Model vitreous china as manufactured by American Standard with Royal 186-1 Model flush valve as manufactured by Sloan.
Modesty Partitions	Floor-mounted, 1" thick HDPE, overhead braced toilet compartments as manufactured by Santana Products, Comtec Industries or Capitol Partitions. 15-year warranty.
Lavatory	(5) Comrade Model 18" x 20", vitreous china wall-hung as manufactured by American Standard. Factory standard. ADA compliant.
Lavatory Faucet	(1) Model 802-V665CP as manufactured by Chicago Faucet per lavatory.
Water Heater	(1) Electric water heater. Size as required by code.
Recirculating Pump	(1) Model UP15-42SF as manufactured by Grundfos.
Mirror	(1) 18" x 36" with stainless steel frame per lavatory.
Restroom Accessories	Soap, toilet paper, sanitary napkin and paper towel dispensers by Others.
Furnishings	
Cabinet - Office	(1) Model "Essentials Rutland II" 24" x 72" base cabinet with 12" x 72" upper cabinet. Includes 25 1/2" x 72" x 1/16" HPLAM countertop.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
Floor Covering - Office	Field installed "Associate" 24 oz., 100% solution dyed nylon, broadloom carpet with Teklok backing as manufactured by Shaw. Delete hardibacker underlayment.
Floor Covering - Office	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw. Delete hardibacker underlayment.
Roof Mansard	Around full perimeter. 1 1/2" x 30" projection on 70' walls and 24" x 30" projection on 14' walls. Hardisoffit® vented panels.
Ceiling	2' x 4' "Baroque" accoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8'6" nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional difusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Air Conditioning Unit	(1) Bard Model W***-H1-A**-V-P-X-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.

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Specifications - Two Center Office/Workrooms

COMPONENT	DESCRIPTION
General	
Approved Manufacturers (Plant Locations)	See attached list of (15) approved manufacturers by "Geographic Regions"
Floor Plan/Drawing	Bidder to provide proposed floor plan with bid. Identify as #S70-5
Description	(2) Offices with integral corridor. Center unit.
Exterior Dimensions	14' x 70' (980 sq-ft nominal).
Office Dimensions	14' x 31' (434 sq-ft nominal).
Shipping Height	14' 6" or less. 14'2" or less in Northeast Region only.
State Approvals	As Required.
Regional Availability	All except State of California
Construction Type	V-B
Occupancy Classification	E - Education.
Floors	
Frame Type	Outrigger with main rails at 72" on center or as required by code.
Floor Framing	3/4" tongue and groove plywood over 2" x 6" (SPF#2) or 2" x 8" (SPF#2) at 16" on center or as required by code. Double side rails below all exterior and mate line walls.
Underlayment	Factory-installed, 1/4" or 1/2" hardibacker throughout.
Insulation	Kraft-faced R-22 or as required by code.
Bottom Board	Plastic, roll type.
Floor Live Load	50 PSF in offices and 100 PSF in corridor or as required by code.
Floor Covering - Offices and Corridor	12" x 12" x 1/8" standard "Excelon Imperial" vinyl composition tile as manufactured by Armstrong, or equal.
Cove Base	4" x .0125" Type TV thermoplastic vinyl as manufactured by Roppe, or equal.
Walls	
Interior Wall Covering	Factory standard 1/2" or 5/8" vinyl covered gypsum. Battenless at vertical panel seams.
Interior Wall Finish	Group II, vinyl covered gypsum.
Inside and Outside Corners	Vinyl covered wood battens.
Outside Corners - Corridor Only	Model 169V 2" x 2" x 8' 6" vinyl with Model 168A metal track as manufactured by InPro, or equal.
Interior Wall Framing	2" x 4" (SPF#2) at 16" on center to 8'6" minimum nominal wall height. Double top plate and single bottom plate.
Sound Insulation	Soundbatts® R-11 as manufactured by Owens Corning, or equal.
Exterior Wall Finish	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Exterior Wall Framing	2" x 6" (SPF#2) at 16" on center or as required by code. Double top plate and single bottom plate. 8'6" minimum nominal wall height.
Exterior Insulation	R-22 or as required by code.
Exterior Trim	Rough sawn cedar. 1" x 4" at corners, vertical mate lines, windows and doors. 1" x 6" at top and bottom of mansard and top of skirting.
Foundation Enclosure	5/16" Hardipanel® to 36" height above finish grade.
Foundation Vents	SolarTek Model "RA" automatic foundation vents. Quantity as required by code.
Mansard	5/16" Hardipanel® with T-molding. Vapor barrier. 1/8" thermoply sheathing or as required by code.
Corridor	1-hour rated walls and ceilings or as required by code.
Roof	
Roof Membrane	.045 mil black EPDM Rubber with 10-year warranty as manufactured by Mule Hide Products. 1/4":12" slope or as required by code.
Roof Framing	Factory standard (SPF#2). Snow load as required by code.
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Roof Drainage	Terminate EPDM per Mule Hide detail MDE-109 dated 9/22/08. Manufacturer to furnish and install flashing as shown.
Ceiling	Textured gypsum with no visible fasteners as manufactured by Sea Spray Drywall Textures, or equal. 8'6" nominal ceiling height.
Doors and Door Hardware	
Interior Doors	See attached door schedule.
Electrical - Line Voltage	
Electrical Panel	120/208 VAC, single phase, 60 Hz panels sized as required by code. Location as shown.
Electrical Raceway	90°C Romex. EMT or MC cable above suspended ceiling or as required by code.
Lighting	Electronic ballast with energy efficient lamps and infrared occupancy sensors.
Lighting - Corridor	Electronic ballast with energy efficient lamps and infrared occupancy sensors. Battery backup.
Lighting - Emergency	As required by code.
Office - Voice, Data, CATV, Fire Alarm, PA and Security	(1) 4" x 4" and (6) 2" x 4" junction boxes with cover plate and 3/4" EMT with pull wire to below finished floor per office. Locations to be determined.
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Diffuser	Factory standard directional diffusers.
Smoke/Fire Dampers	Model D-315WB fire or Model D-502 smoke/fire as manufactured by Leader Industries, or equal. Provide as required by code
Supply and Return Air Duct	Fiberglass. Galvanized as may be required by code in one-hour rated areas.
Return Air Plenum	Plenum wall. (1) Model 900 FG, interior 20" x 30" return air filter grille as manufactured by Shoemaker or Bard equal. Located at 12" AFF.
Building Options/Upgrades	
Frame Type and Floor Framing	Perimeter with cross members at 48" on center or as required by code. Provide 3/4" tongue and groove plywood over 2" x 6" (SPF#2) framing at 16" on center or as required by code.
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Floor Covering - Offices	Field installed "Captivate", 100% solution dyed nylon, 24" x 24" carpet tile with Ecoworx backing as manufactured by Shaw. Delete hardibacker underlayment.
Roof Mansard	Around full perimeter. 1 1/2" x 30" projection on 70' walls and 24" x 30" projection on 14' walls. Hardisoffit® vented panels.
Ceiling	2" x 4" "Baroque" acoustical ceiling tile as manufactured by Certanteed, or equal. Includes Model "Snap Grid™ 200" 15/16" exposed ceiling grid as manufactured by Chicago Metallic, or equal. 8'6" nominal ceiling height. Provide Model FPD 24" x 24", 4-way directional diffusers as manufactured by Hart and Cooley. All junction boxes (quantity as specified above) with cover plate and 3/4" EMT with pull wire to above finished ceiling in lieu of below finished floor.
Roof Drainage	5" commercial, seamless aluminum gutters with 3" x 4" downspouts to grade. Field installed.
Air Conditioning Unit	(1) Bard Model W***-H1-A-**-V-P-X-X-X-R electric heat pump unit, or Marvair equal. (***) = Cooling Capacity; (**) = Heating Capacity. Compressor and heat strips sized as required by code.
Storage Closet	(2) 3' x 5' with wire shelving at 72" AFF.

