



# SMS

SOMERSET MIDDLE SCHOOL

**SMS Building Committee**  
**Ai3 Architects, LLC**  
**CGA Project Management**  
January 3, 2022



# SMS | Project Timeline

2021

2022

2023

2024

2025

O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D

**100% Design Development Submission to the MSBA**

**Design Development**  
5 months

**Construction Documents**  
7 months

**Bidding & Contractor Mobilization**  
7 weeks

**Construction**  
21 months

**Demo/Site**  
12 months

**September 2024**  
**New Somerset Middle School Opening**

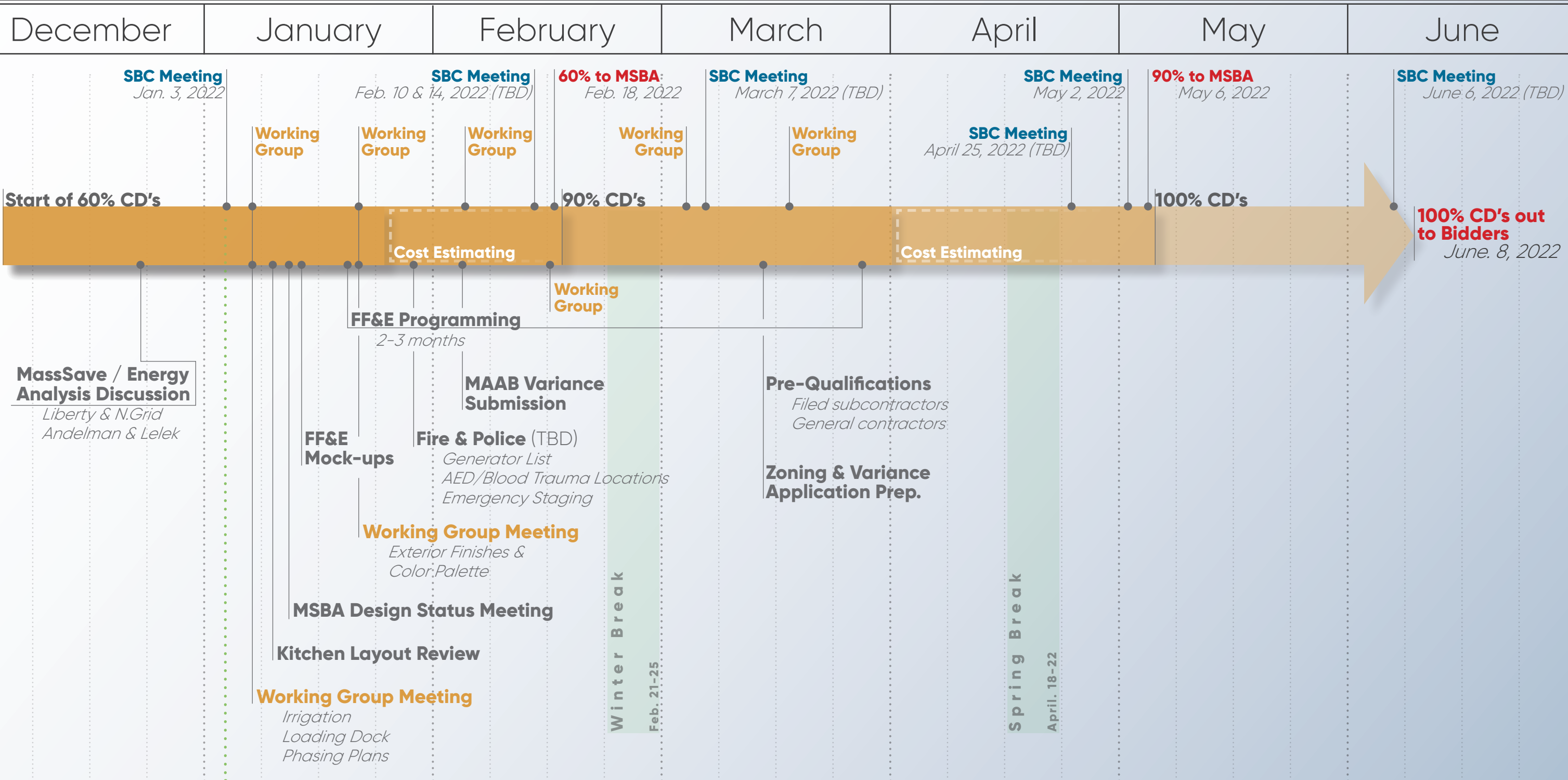
**Project Scope & Budget Agreement**  
*MSBA/District*

**Project Funding Agreement**  
*MSBA/District*

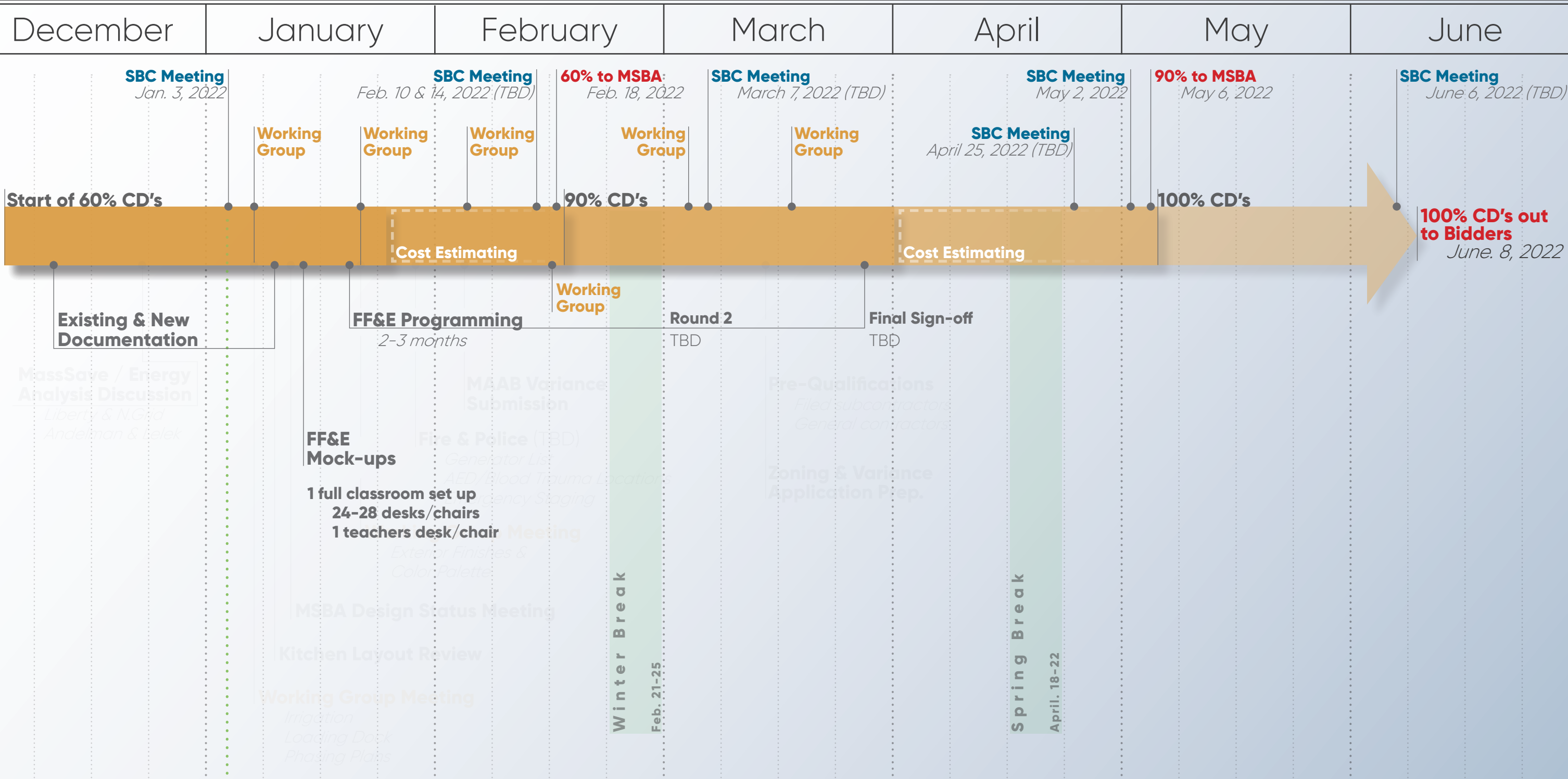
- Cost Estimating & MSBA Submissions
  - 60% Construction Documents
  - 90% Construction Documents
  - 100% Construction Documents
- Continued design development & coordination
- FF&E programming & mock-ups
- Continued meetings with Admin. & District
  - Working Group
  - School Building Committee
  - Police & Fire
  - Technology
- Variance & Zoning Submissions
  - MAAB
  - Site & Building

**(Summer 2025)**  
**Complete new playfields**  
**Complete cross-country & fitness trails**  
**Complete remaining sitework**

# SMS | Construction Document Milestones



# SMS | Construction Document Milestones



# SOMERSET MIDDLE SCHOOL




## Example FF&E Documentation

### EAST PROVIDENCE HIGH SCHOOL

Ai3 Architects LLC/Integrated Contract Design, Inc.  
FF&E Programming Document

Area/Room: Classroom  
Budget Area: Classrooms

Contact:  
Room Numbers: 301, 302, 303, 310, 311, 312, 321, 323, 330, 331, 332, 352, 353, 360, 361, 362, 371, 372, 373, 380, 381, 382, 401, 402, 403, 410, 411, 412, 421, 422, 423, 430, 431, 432, 451, 452, 453, 463, 464, 471, 472, 473, 480, 481, 482

	Specifics	Seat Ht.	Dimension	Mfg	Spec#	Item#	Notes	# of Rms	Qty	Unit \$	Total \$	Area#
<b>Furniture</b>												
<b>Student Desks &amp; Worksurfaces</b>												
28	Uno-M Steel Skid Table, Middle Legged Frame and Book Bag Hook		27-5/8"W x 19-3/4"W x 29.5"H	VS	2408	40977		45	28	\$120.00	\$151,200.00	1
												
<b>Student Seating</b>												
28	PantoSwing-LuPo Chair	18"		VS	31400	42097		45	28	\$110.00	\$138,600.00	1
												
<b>Desks &amp; Worksurfaces</b>												
1	Teacher's Desk w/ Mobile, Box, Box, File Pedestal		60"W x 30"D x 29"H	Mien and Haskell	(1) GR8T-TBD -6029B; (1) MP20TBF-LAM	50458		45	1	\$1,200.00	\$54,000.00	1
												

Equipment Lists

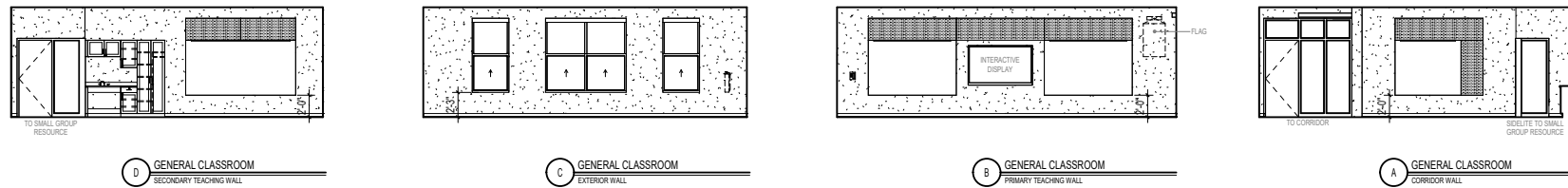
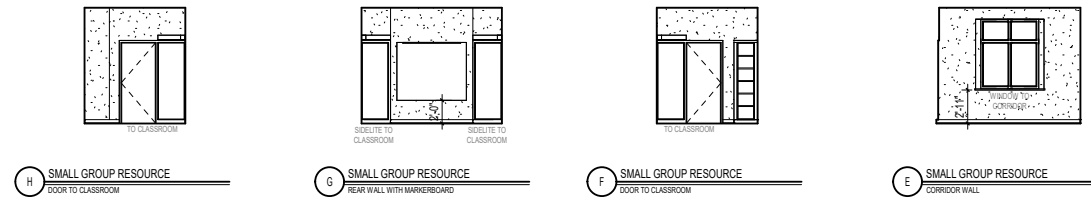


Presentation Boards

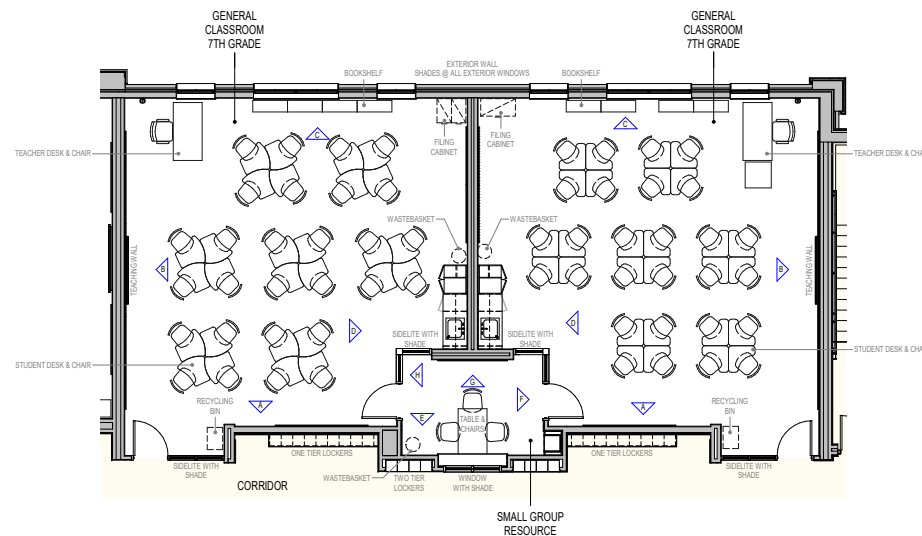
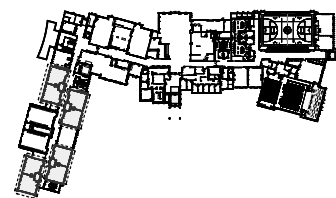
Administrative & Staff



# Example Programming



NOTES:





## SOMERSET MIDDLE SCHOOL

# *60% Construction Documents*

- **Refined site and landscaping plans and details**
- **Continued coordination and integration of building systems**
- **Final sizing and coordination of steel and superstructure**
- **Integration of furniture, fixtures, and equipment**
- **Integration of technology and security systems**
- **Continued energy review and analysis**
- **Review of color palette and interior finishes**
- **Integration of signage**
  - School history, pride, and sustainability
  - Branding and wayfinding
  - Accessibility and Room ID's
- **Refinement of major design features and detailing throughout**





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## *Path to Net Zero Energy*

*Options reviewed at July 26, 2021  
School Building Committee Meeting*

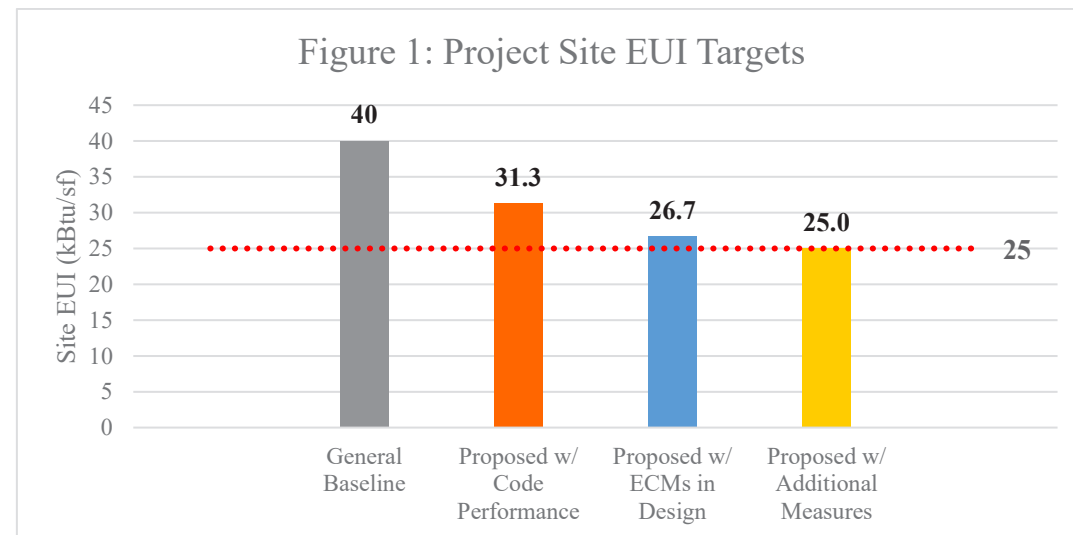
	Option 1	Option 2	Option 3
Building Design & Exterior Envelope	Current Design Approach	Implement Architectural changes	Implement Architectural changes
Mechanical System	VAV High efficiency, exceeds code	Change from VAV to all-electric VRF	VAV High efficiency, exceeds code
Energy Use Intensity (EUI)	30.0 - 35.0	25.0	25.0 - 30.0
Mass Save Utility Incentive Program	Path 2	Path 1	Path 1
			RECOMMENDED

# SOMERSET MIDDLE SCHOOL

## Energy Analysis / EUI

### Project Site EUI Targets

The following chart shows the *General Baseline*, *Proposed Building with Code Performance*, *Proposed Building with Energy Conservation Measures*, *Proposed Building with Additional Measures* and the *Target EUI* for Somerset Middle School. This project is pursuing the Path 1 incentive track, which has a maximum target EUI of 25. A general description of each of the scenarios is listed below for reference.

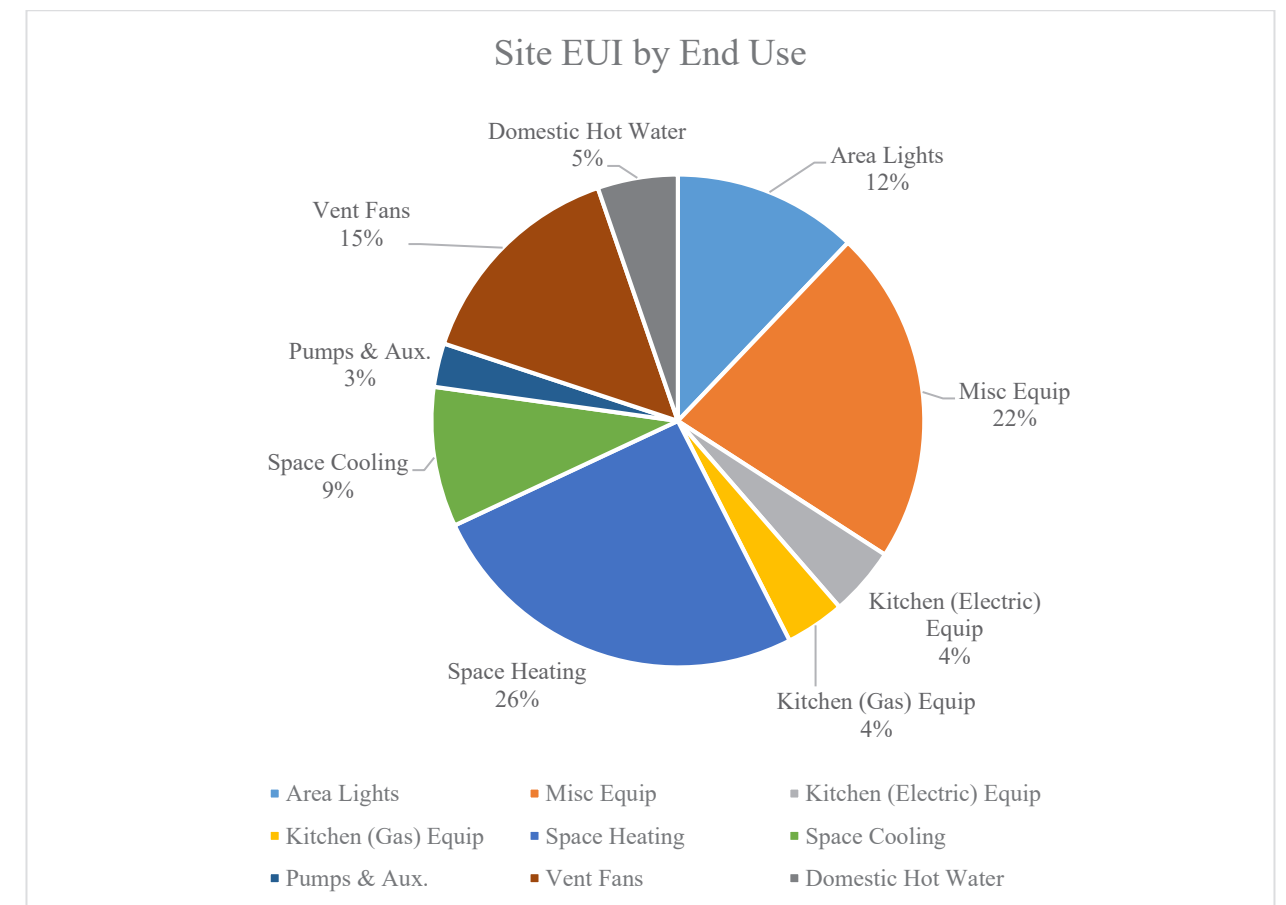


#### ➤ Proposed Building with Additional Measures

Developed assuming the same conditions as *Proposed Building with Energy Conservation Measures* plus the following: **5% reduction in assumed fan power for roof top units**; **70% effective exhaust air energy recovery enthalpy wheels (in lieu of 65% effectiveness)**; **night setback heating temperature setpoint of 60°F (in lieu of 65°F)**; **LPD of 0.40 W/sf (in lieu of 0.45 W/sf)**.

### Initial Projected Site EUI

Results of the initial analysis based on the DD set and a significant number of assumptions show the new Somerset Middle School with a projected site EUI of 26.7.<sup>5</sup> The breakdown of the EUI by end use is shown in the pie chart below.

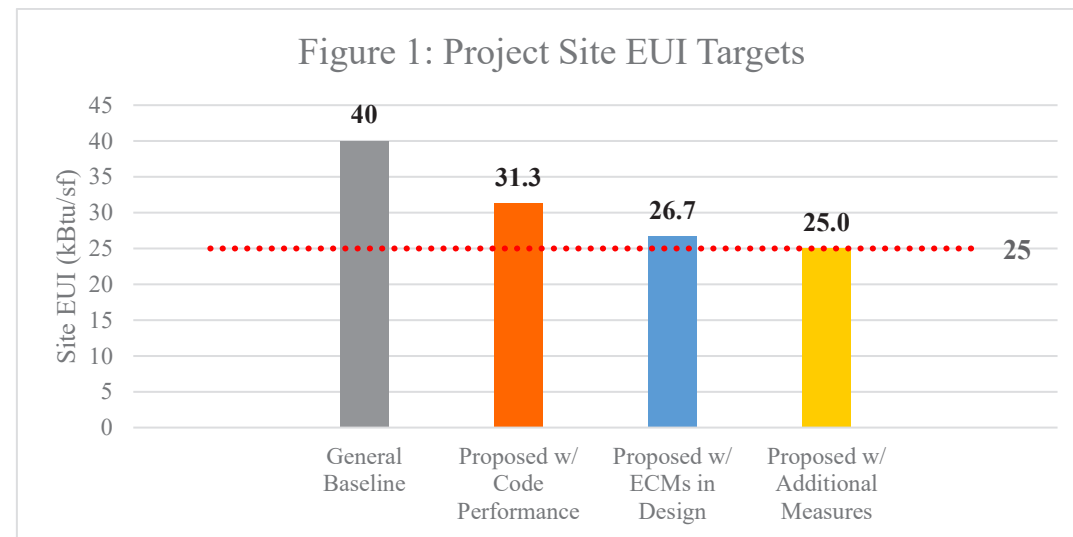


# SOMERSET MIDDLE SCHOOL

## Energy Analysis / EUI

### Project Site EUI Targets

The following chart shows the *General Baseline*, *Proposed Building with Code Performance*, *Proposed Building with Energy Conservation Measures*, *Proposed Building with Additional Measures* and the *Target EUI* for Somerset Middle School. This project is pursuing the Path 1 incentive track, which has a maximum target EUI of 25. A general description of each of the scenarios is listed below for reference.



#### ➤ Proposed Building with Additional Measures

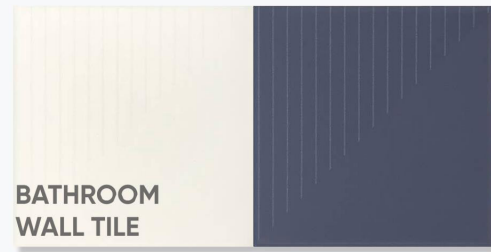
Developed assuming the same conditions as *Proposed Building with Energy Conservation Measures* plus the following: **5% reduction in assumed fan power for roof top units; 70% effective exhaust air energy recovery enthalpy wheels (in lieu of 65% effectiveness); night setback heating temperature setpoint of 60°F (in lieu of 65°F); LPD of 0.40 W/sf (in lieu of 0.45 W/sf).**

### Goals & Steps to Achieve 25 or lower EUI

- 5% reduction in assumed fan power for roof top units
  - 70% effective exhaust air energy recovery enthalpy wheels
  - Night setback heating temperature setpoint of 60° F
  - Lighting Power Density (LPD) of 0.40 W/sf
- 
- **Plug load confirmation**
  - **Proposed usage schedules**



BATHROOM FLOOR TILE



BATHROOM WALL TILE



CORRIDOR WALL TILE



FABRIC PANELS



COUNTERTOPS



PLASTIC LAMINATE



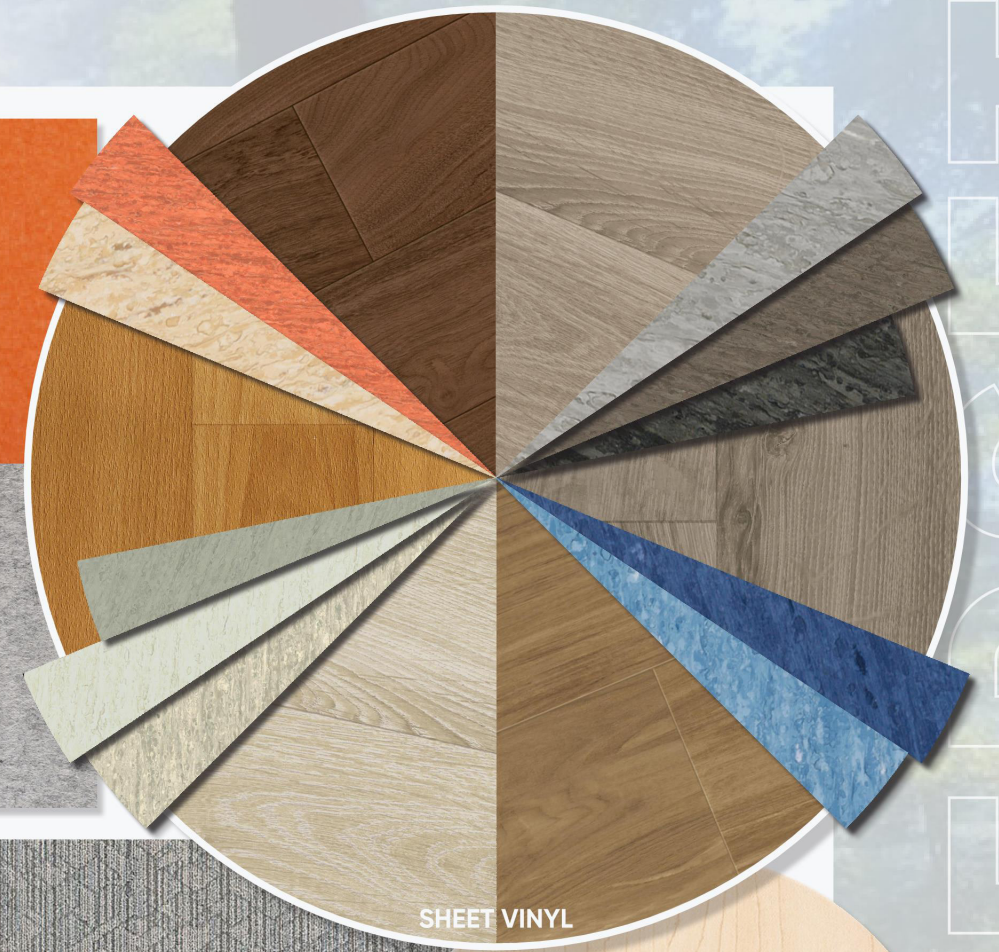
FELT PANELS



CARPET



CARPET



SHEET VINYL



WOODWORK





PLASTIC LAMINATE

PLASTIC LAMINATE

WOOD

FELT PANEL

FELT PANEL

FELT PANEL

FELT PANEL

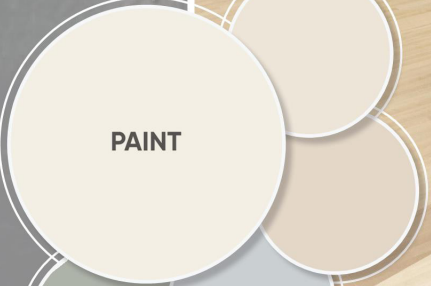
WOOD CEILING TILE

SEAMLESS CEILING

PAINT



SHEET VINYL



PAINT



WOOD



PORCELAIN TILE

PORCELAIN TILE

PORCELAIN TILE



QUARRY TILE

GLAZED CERAMIC TILE

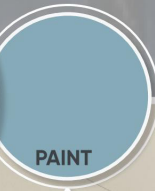
# STUDENT DINING



PAINT



PAINT



PAINT



PLASTIC LAMINATE



WOOD



SHEET VINYL

SHEET VINYL

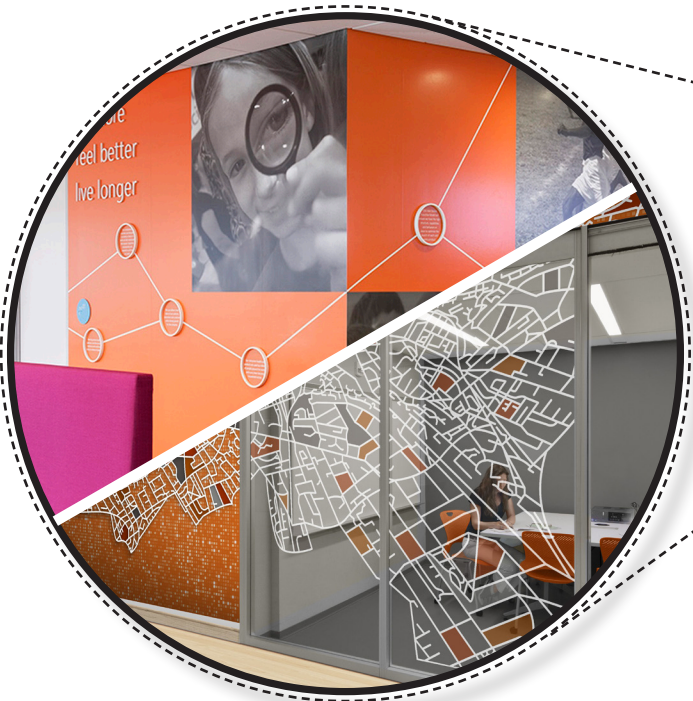
SHEET VINYL

SHEET VINYL



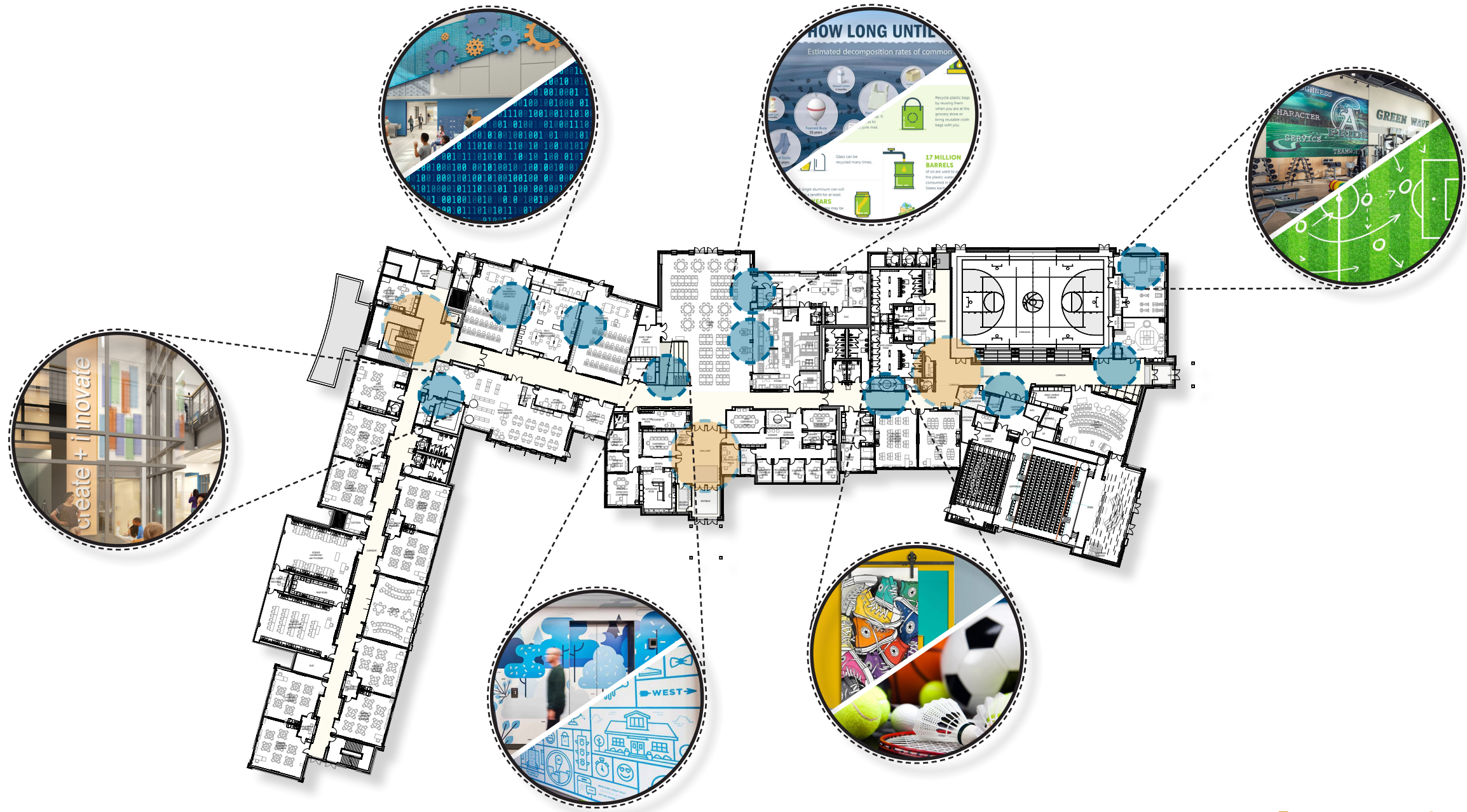
# ACADEMIC WING: CLASSROOMS





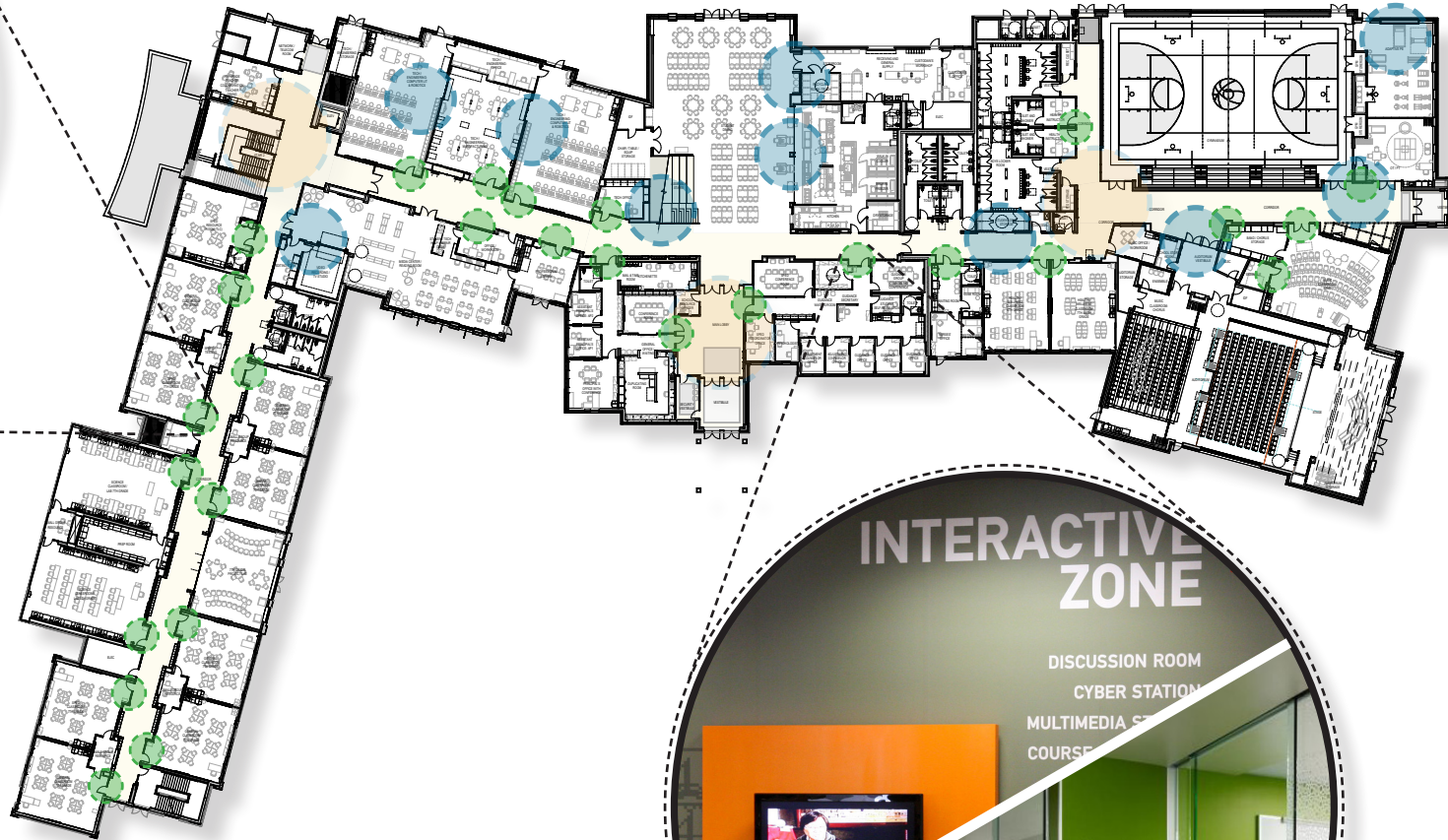
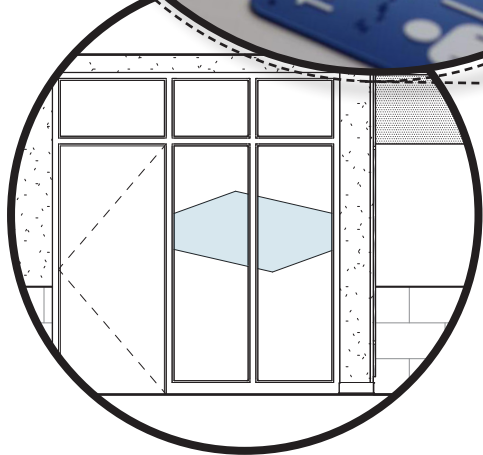
*Plan Diagrams*  
*Signage | Primary*  
**Main Level Floor Plan**





*Plan Diagrams  
Signage / Secondary*

**Main Level Floor Plan**



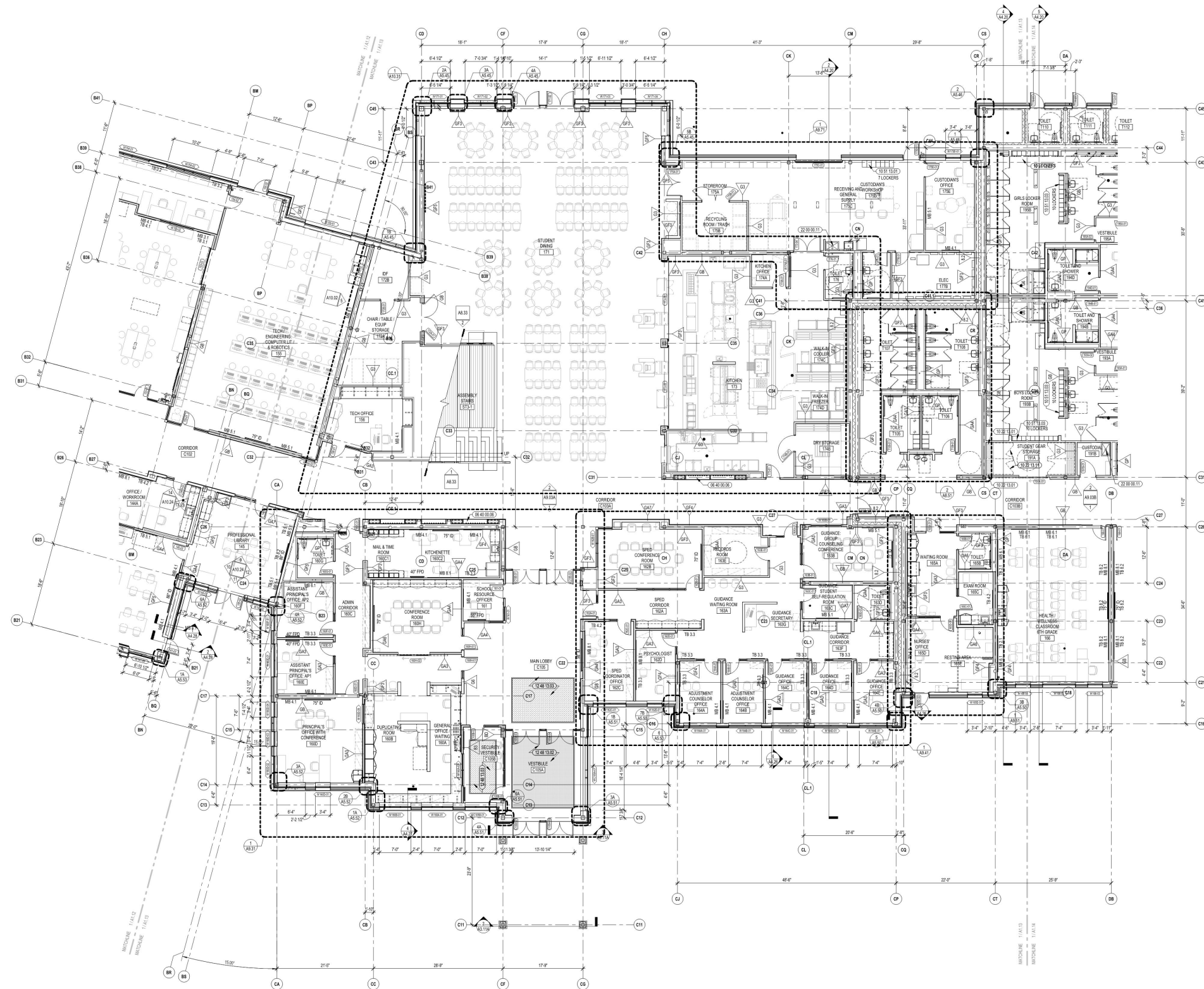
*Plan Diagrams  
Signage / Tertiary*

**Main Level Floor Plan**

# SOMERSET MIDDLE SCHOOL

## 60% CD's

### Zone Floor Plans



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1141 Brayton Avenue  
Somerset, Massachusetts

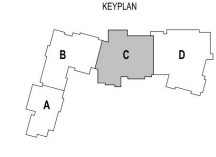
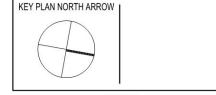
**KEYNOTE LEGEND:**

- 06.40.00.06 STUDENT STORAGE UNIT
- 10.22.10.19 WINE MESH PARTITION - 4 FEET TALL WITH CEILING
- 10.22.10.17 WINE MESH DOUBLE HUNGLED DOOR - 3/4 INCH DOOR
- 10.51.10.01 METAL LOCKER - SLOPED TOP - TYPE 1
- 10.51.10.02 METAL LOCKER - SLOPED TOP - TYPE 2
- 12.44.10.03 RECESSED ENTRANCE GRATING - REFERENCE DRAWINGS FOR SIZE
- 12.44.10.04 ENTRANCE MAT - REFERENCE DRAWINGS FOR SIZE
- 22.00.00.11 MOP SINK - SEE PLUMBING

**GENERAL NOTES:**

1. MAIN LEVEL ELEVATION = 100'-0"
2. MAIN LEVEL ELEVATION OF 100'-0" CORRESPONDS TO ELEVATION 144'-0" ON THE CIVIL DRAWINGS.
3. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF MASONRY, AND/OR CENTERLINE OF COLUMN, U.N.O.
4. REFER TO SHEET A1.10 FOR FIRE EXTINGUISHER MOUNTING HEIGHTS.

**60% CONSTRUCTION DOCUMENTS**



DRAWING NAME:  
**MAIN LEVEL FLOOR PLAN ZONE C**

DRAWN BY: CHR / TC  
REVIEWED BY: HM / JG

SCALE: AS INDICATED DRAWING NUMBER:  
JOB NO.: 1901.00  
DATE: FEBRUARY 18, 2022

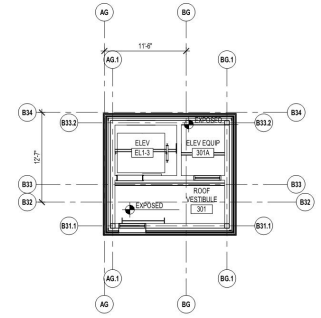
**A1.13**

1 MAIN LEVEL FLOOR PLAN - ZONE C  
18-F-172

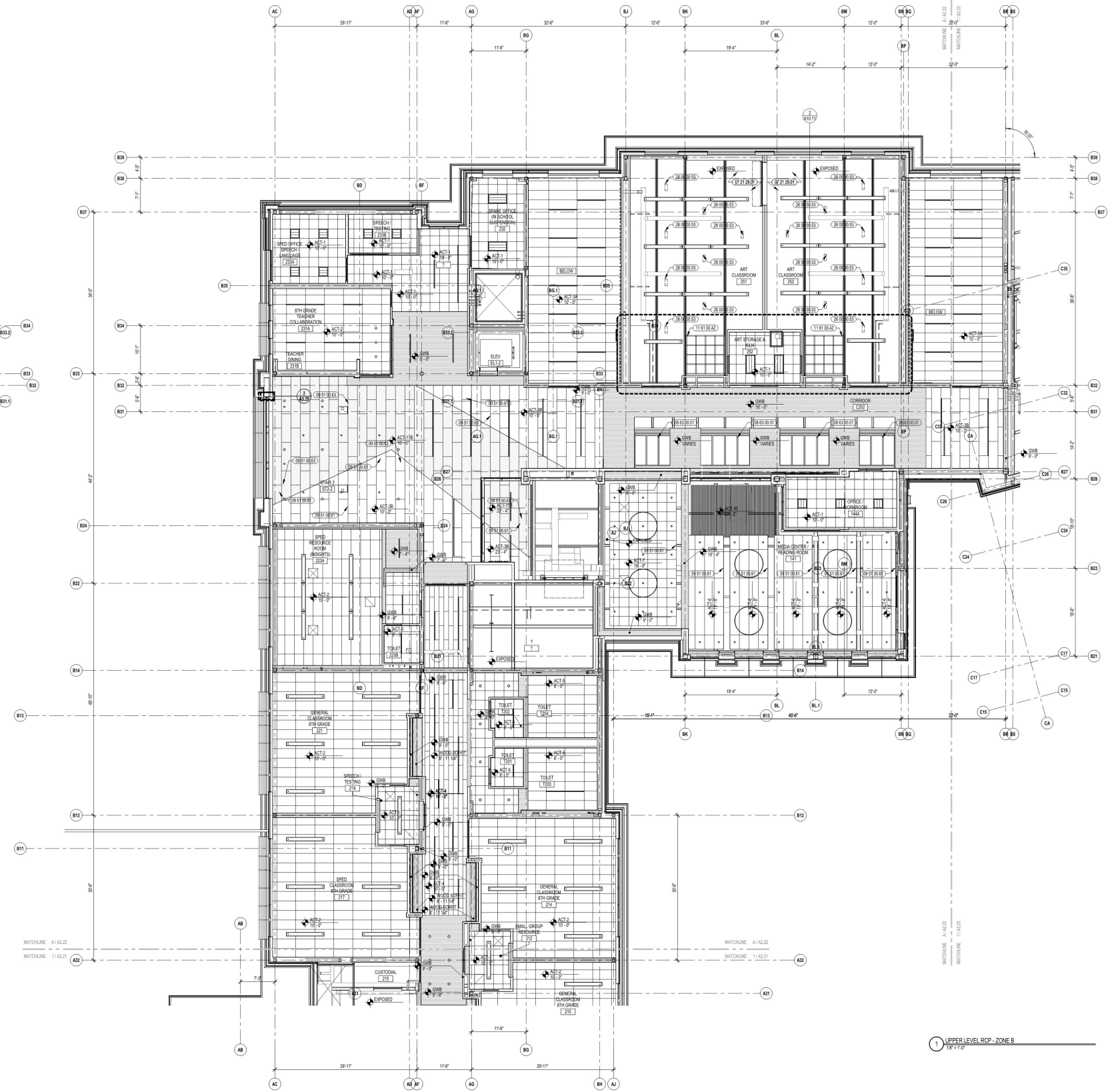
# SOMERSET MIDDLE SCHOOL

## 60% CD's

### Zone Reflected Ceiling Plans



2 ROOF PARTIAL RCP - ELEVATOR ACCESS  
10' x 10'



1 UPPER LEVEL RCP - ZONE B  
10' x 10'



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REFLECTED CEILING PLAN LEGEND:

○ DAYLIGHT SENSOR - SEE ELEC.	○ OCCUPANCY SENSOR - SEE ELEC.
○ SPEAKER - SEE TECHNOLOGY	○ CAMERA - SEE TECHNOLOGY
○ ACCESS PANEL - SEE MECH/P	○ SPRINKLER HEAD - SEE FIRE PROTEC.
○ SUPPLY - SEE MECH	○ RETURN - SEE MECH
○ EXPOSED PANEL - SEE MECH	○ VOICES LEFT SYSTEM - SEE TECHNOLOGY

LIGHTING FIXTURES - SEE ELECTRICAL

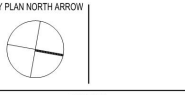
○ RECESSED DOWNLIGHTS	○ TYPICAL PENDENTS (HEIGHT AS NOTED)
○ RECESSED LINEAR LIGHTS	○ LINEAR PENDENT (HEIGHT AS NOTED)
○ STAGE TRACK	○ WALL SCIENCE
○ STRIP	

MATERIALS - ACT GRID SIZES VARY BY TYPE - REF. SPECIFICATIONS

○ GWS SOFFIT	○ ACT
○ MGF SOFFIT	○ ACT (WOOD LOOK)
○ WOOD SOFFIT	○ ACT (WOOD GRILLE)
○ ACOUSTIC PANEL - ABSORPTIVE	○ ACT (METAL LOOK)
○ ACOUSTIC PANEL - REFLECTIVE	○ ACT (SEAMLESS)

- GENERAL NOTES:
1. ALL CEILING MOUNTED ITEMS, INCLUDING SPRINKLER HEADS, SMOKE DETECTORS, SPEAKERS, VIDEO WIRELESS ACCESS POINTS AND RECESSED DOWN LIGHTS, PLACED IN A TYPICAL CEILING TILE ARE TO BE ON CENTERLINE OF 2'-0" DIMENSION AND TO BE AT 1/2" OFF EITHER END OR IN THE EXACT CENTER OF THE 4'-0" DIMENSION.
  2. ALL CEILING MOUNTED ITEMS INCLUDING SPRINKLER HEADS, SMOKE DETECTORS, SPEAKERS, VIDEO WIRELESS ACCESS POINTS AND RECESSED DOWN LIGHTS ARE TO BE CENTERED IN THE EXACT CENTER OF THE TILE.
  3. ALL SUPPLY GRILLES, RETURN REGISTERS, SPRINKLER HEADS, SMOKE DETECTORS, LIGHTS, SPEAKERS, VIDEO, WIRELESS ACCESS POINTS AND EXIT SIGNS TO BE LOCATED IN COORDINATION DRAWINGS FINAL PLACEMENT TO BE APPROVED BY ARCHITECT.
  4. THE EXACT LOCATION OF LINEAR PENDENT LIGHT FIXTURES IN ALIGNMENT WITH TRACK OR MARKER BOARD SHOULD BE COORDINATED IN FIELD. SURROUNDING ACT TILES SHALL BE CUT ACCORDINGLY TO COORDINATE.
  5. DIVISION 06210, 06813, 06212 AND 07100 REFER TO DRAWINGS 0610, 0610 AND 0610 FOR ROOMS (HEADS) THAT ARE REQUIRED TO HAVE FIRE RATED CEILING FLOOR AND WALL ASSEMBLIES.
  6. WHEN NOT INSTALLED IN WHITE ACT CONCEALED SPRINKLER HEAD COVERS SHALL BE PAINTED TO MATCH CEILING COLOR (COLOR UNCL).
  7. ACOUSTICAL CEILING FIBER SUB-CONTRACTOR IS TO THOROUGHLY COORDINATE EQUIPMENT, DEVICES, ACCESS PANELS, AND SPRINKLER HEADS NOTED ON THE FIRE PROTECTION DRAWINGS, ELECTRICAL DRAWINGS, MECHANICAL DRAWINGS, AND TECHNOLOGY DRAWINGS.

60% CONSTRUCTION DOCUMENTS



DRAWING NAME:  
**UPPER LEVEL REFLECTED CEILING PLAN ZONE B**

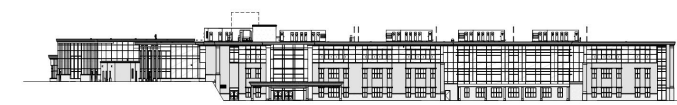
DRAWN BY: TC  
REVIEWED BY: HM / JG

SCALE: AS INDICATED DRAWING NUMBER:  
JOB NO.: 1901.00  
DATE: FEBRUARY 18, 2022  
**A2.22**

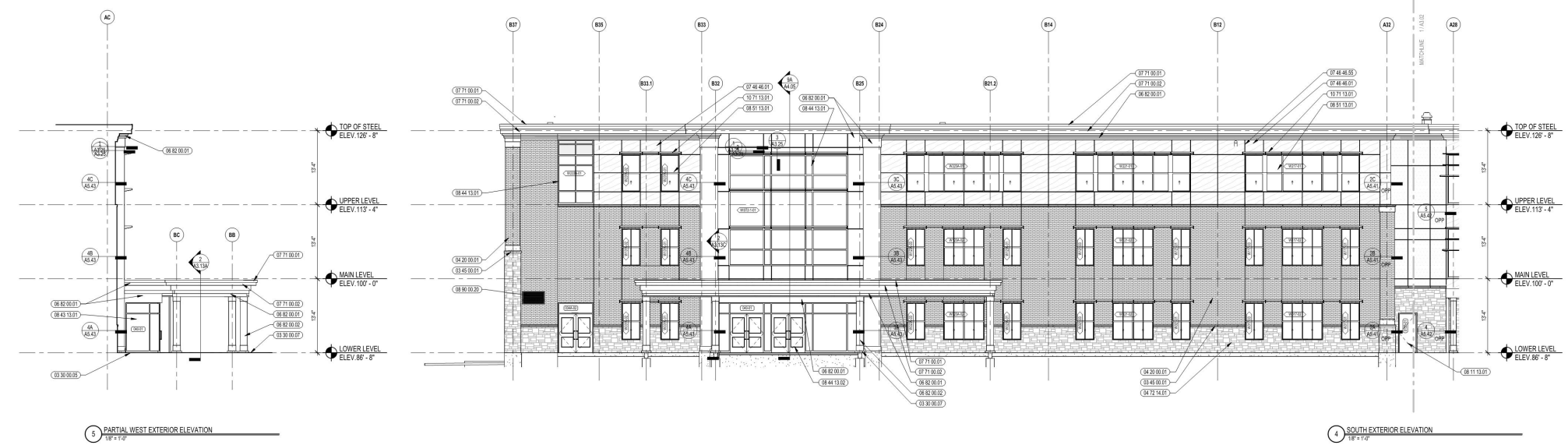
# SOMERSET MIDDLE SCHOOL

## 60% CD's

### Exterior Elevations

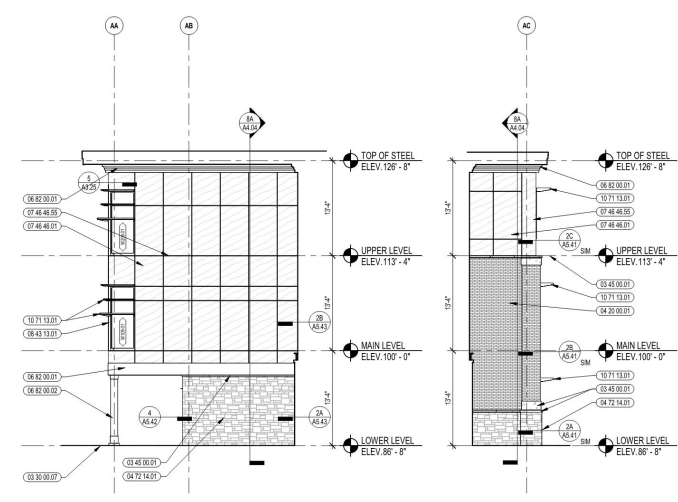


6 OVERALL EXT. SOUTH  
1" = 40'-0"



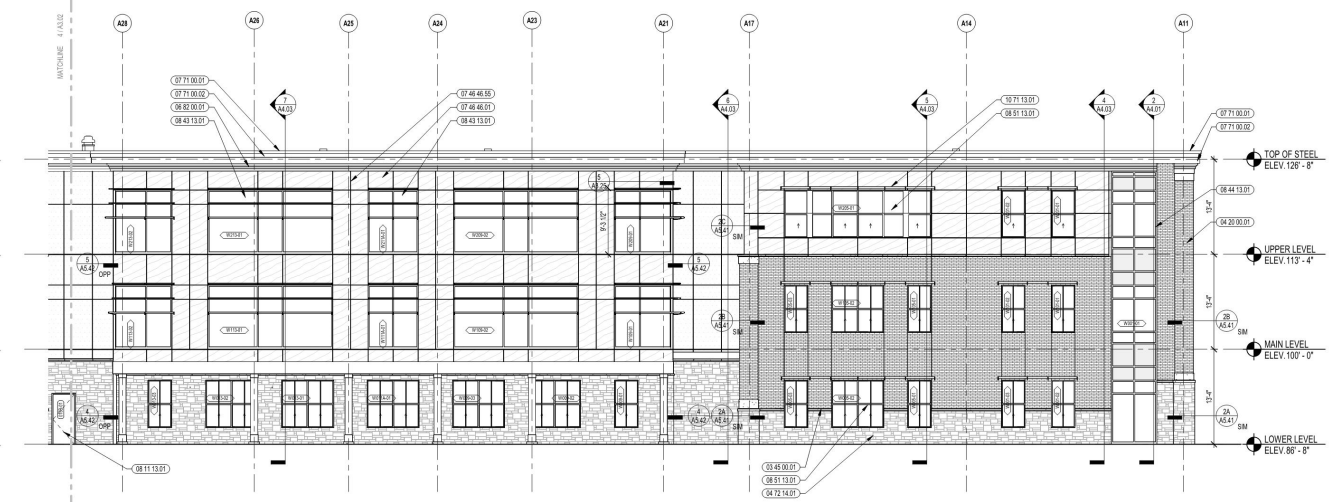
4 SOUTH EXTERIOR ELEVATION  
1/8" = 1'-0"

5 PARTIAL WEST EXTERIOR ELEVATION  
1/8" = 1'-0"



2 PARTIAL WEST EXTERIOR ELEVATION  
1/8" = 1'-0"

3 PARTIAL EAST EXTERIOR ELEVATION  
1/8" = 1'-0"



1 SOUTH EXTERIOR ELEVATION  
1/8" = 1'-0"



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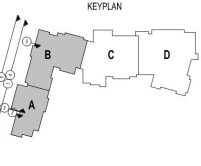
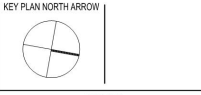
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Somerset, Massachusetts

- KEYNOTE LEGEND:**
- 03 30 00 01 CONCRETE FOUNDATION - SEE STRUCTURAL
  - 03 30 00 02 CONCRETE PER. - SEE STRUCTURAL
  - 04 20 00 01 ARCHITECTURAL PRECAST CONCRETE UNIT
  - 04 20 00 02 FACE BRICK - REFERENCE ELEVATIONS FOR TYPE AND COLORING
  - 04 72 14 01 SURFACE BONDED STONE VENEER SYSTEM
  - 06 82 00 01 FABRICATED GFRP - REFERENCE EXTERIOR ELEVATIONS FOR COLOR
  - 06 82 00 02 FABRICATED GFRP COLUMN COVER
  - 07 44 46 01 MINERAL FIBER CEMENT PANEL - REFERENCE ELEVATIONS FOR COLOR
  - 07 44 46 02 BEAD REVEAL TRIM
  - 07 71 00 01 FACTORY FABRICATED FASCIA TRIM/ROOF EDGE - CUSTOM COLOR
  - 07 71 00 02 EXPOSED ALUMINUM FINISH METAL - CUSTOM COLOR
  - 08 11 13 01 DOOR AND FRAME - SEE DOOR SCHEDULE
  - 08 43 13 01 ALUMINUM STOREFRONT FRAME
  - 08 44 13 01 ALUMINUM CURTAIN WALL FRAME
  - 08 44 13 02 ALUMINUM ENTRANCE FRONT
  - 08 51 13 01 ALUMINUM WINDOW - SEE SCHEDULE
  - 08 90 00 02 ALUMINUM COVER - SEE ELEVATIONS AND SPECIFICATION

- LEGEND**
- FACE BRICK
  - SURFACE STONE VENEER
  - GFRP
  - SOLID CONCRETE BLOCK
  - FIBER CEMENT PANEL
  - FIBER CEMENT SMOOTH PANEL

- GENERAL NOTES:**
1. REFER TO DETAIL A3.1 FOR TYPICAL HORIZONTAL BOND BREAK IN VENEER BETWEEN CHANGES IN VENEER MATERIALS.
  2. REFER TO SHEET A3.31 FOR ADDITIONAL FIBER CEMENT PANEL INFORMATION AND DETAILS.
  3. COORDINATE EXACT LOCATION OF SPRINKLERS, CAMERA'S, AND LIGHTING WITH ARCHITECT PRIOR TO INSTALLATION.
  4. ALL GFRP PANELS AND TRIM TO RECEIVE PAINT. REFERENCE SPEC SECTION 09 91 00 FOR ADDITIONAL INFORMATION.
  5. ALL GFRP CORNERS SHALL BE MITERED AND GLED.
  6. REFER TO DIAL DRAWINGS FOR FINISH GRADE ELEVATIONS.
  7. REFER TO A3.5 FOR PRECAST AND SUNSHADE TYPES
  8. REFER TO A3.4 FOR REVEAL DETAILS

**60% CONSTRUCTION DOCUMENTS**



DRAWING NAME:  
**EXTERIOR ELEVATIONS**

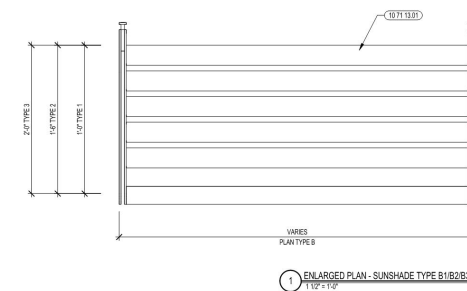
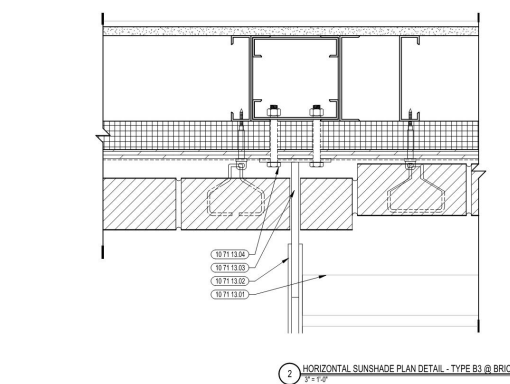
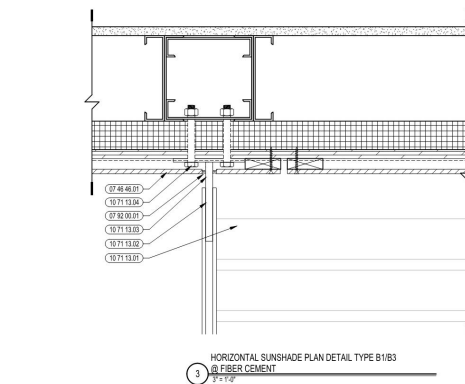
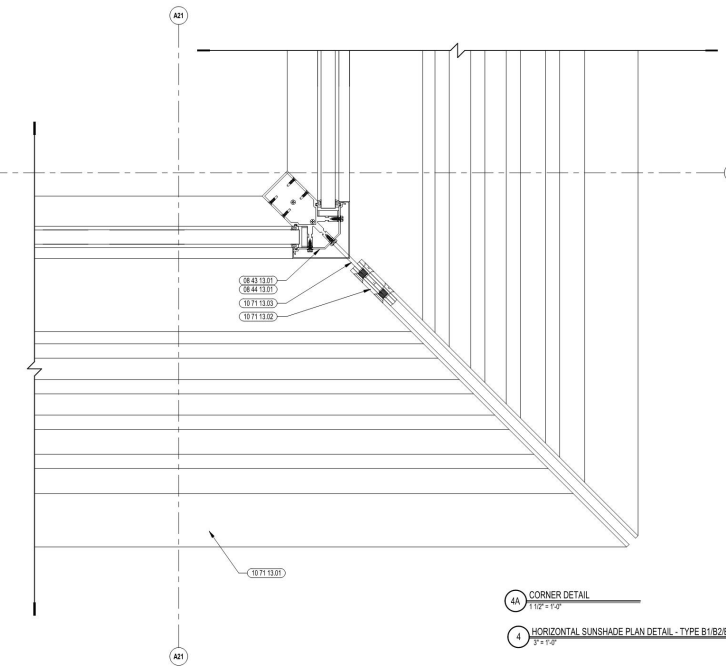
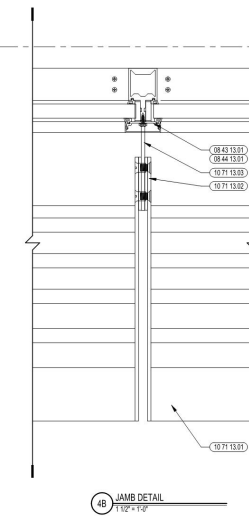
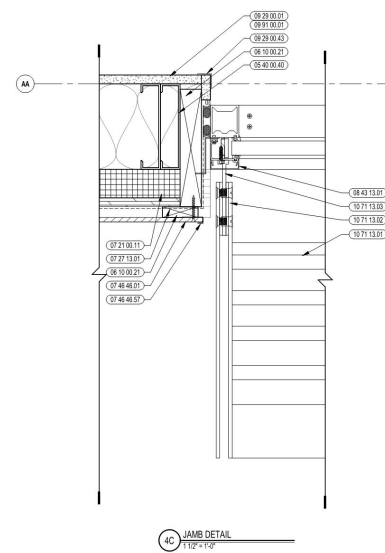
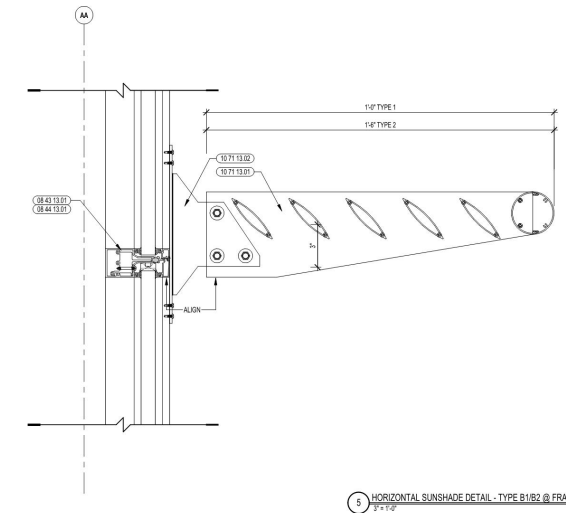
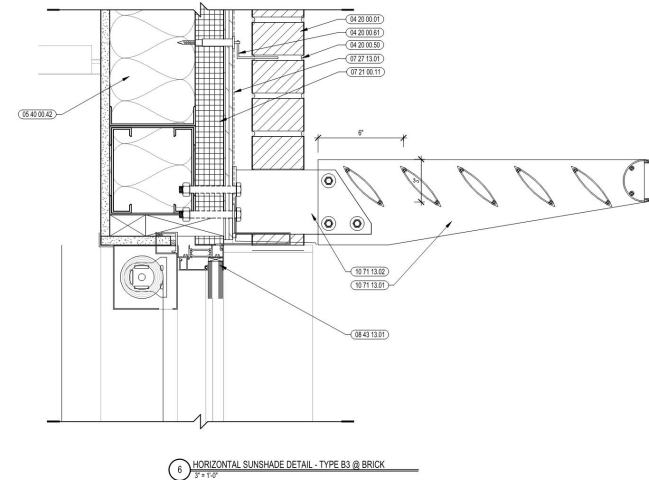
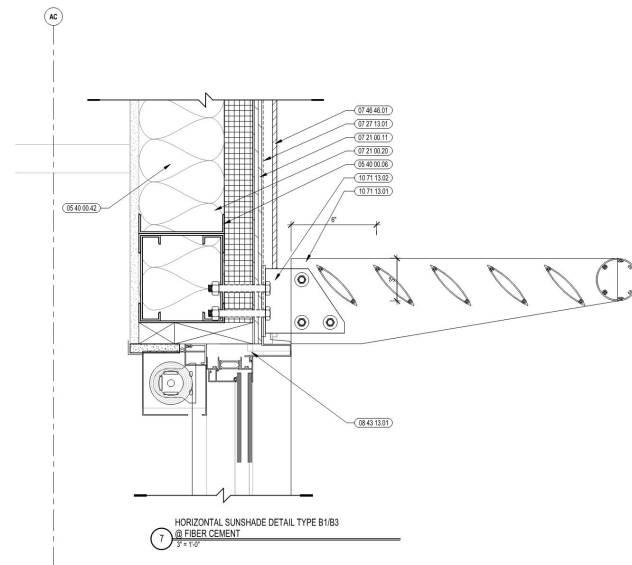
DRAWN BY: CF / CR / JG  
REVIEWED BY: JG

SCALE: AS INDICATED DRAWING NUMBER:  
JOB NO.: 1901.00  
DATE: FEBRUARY 18, 2022  
**A3.02**

# SOMERSET MIDDLE SCHOOL

## 60% CD's

### Exterior Sunshade Details



538 Boston Post Rd  
938.338.0790  
Weymouth, MA  
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1141 Brayton Avenue  
Somerset, Massachusetts

#### KEYNOTE LEGEND:

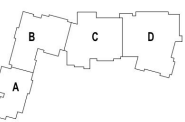
- 04 20 00 01 FACE BRICK - REFERENCE ELEVATIONS FOR TYPE AND COURSE
- 04 20 00 50 MASONRY MORTAR
- 04 20 00 81 TYPICAL MASONRY ANCHORTIES - REFERENCE SPECIFICATION FOR SPACING
- 05 40 00 06 STEEL STUDS - 6 INCH - 16 INCHES O.C. MAX
- 06 40 00 40 DOUBLE STUD AT JAMB - SIZE AS REQUIRED
- 06 40 00 42 STEEL BUILT-UP COLUMN
- 06 50 00 21 WOOD BLOCKING - (2x) FIRE RETARDANT TREATED - SIZE AS NOTED ON DRAWING
- 07 21 00 11 INSULATING WOL BASE - 2 INCH - EXTERIOR WALL
- 07 21 00 20 GLASS FIBER BLANKET INSULATION - MATCH DEPTH OF STUDS - UNFACED
- 07 27 13 01 AIR/VAPOR BARRIER MEMBRANE - SELF-ADHERING MINERAL FIBER CEMENT PANEL - REFERENCE ELEVATIONS FOR COLOR
- 07 46 46 57 JMWOLD FRM
- 07 60 00 01 JOINT SEALANT - TYPE AS REQUIRED
- 08 43 13 01 ALUMINUM STOREFRONT FRAME
- 08 44 13 01 ALUMINUM CURTAIN WALL FRAME
- 09 20 00 01 1/8 INCH GYP/PLASTER BOARD - LEVEL 4 FINISH - 1 LAYER
- 09 20 00 04 CORNER BEAD
- 09 91 00 01 PAINT - SEE SCHEDULE
- 10 71 13 01 ALUMINUM HORIZONTAL SUNSHADE ASSEMBLY - FACTORY FINISH
- 10 71 13 02 ALUMINUM HORIZONTAL SUNSHADE OUTRIGGER - FACTORY FINISH
- 10 71 13 03 ALUMINUM HORIZONTAL SUNSHADE MULLION CLIP - FACTORY FINISH
- 10 71 13 04 FASTENER - AS REQUIRED

#### 60% CONSTRUCTION DOCUMENTS

KEY PLAN NORTH ARROW



KEY PLAN



DRAWING NAME:

EXTERIOR SUNSHADE TYPES

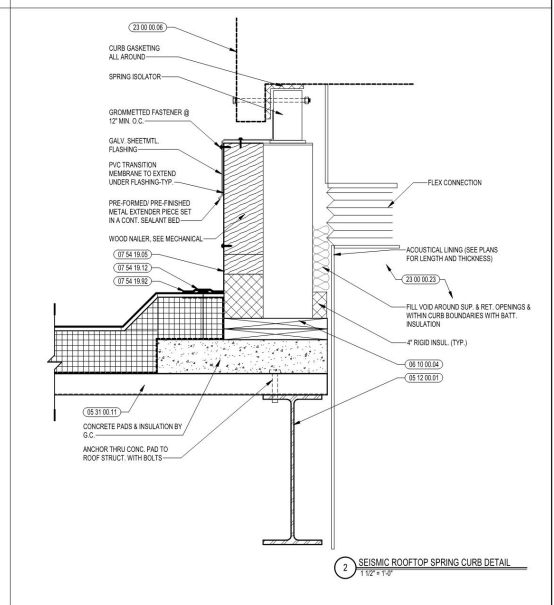
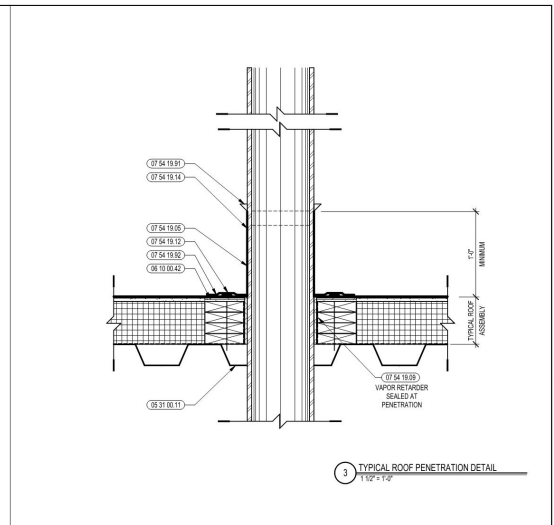
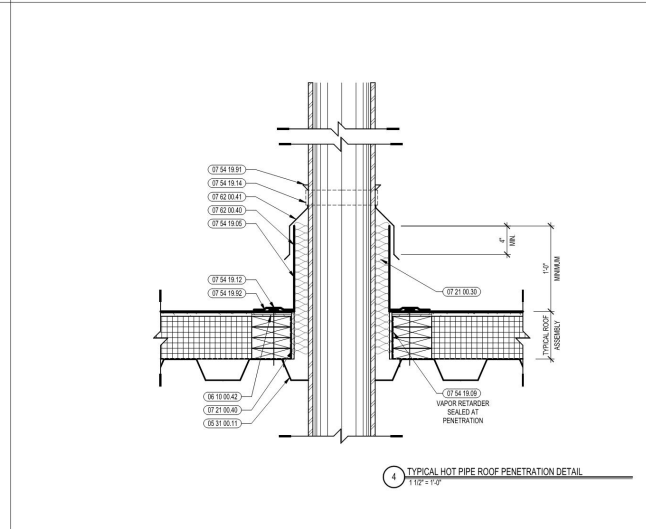
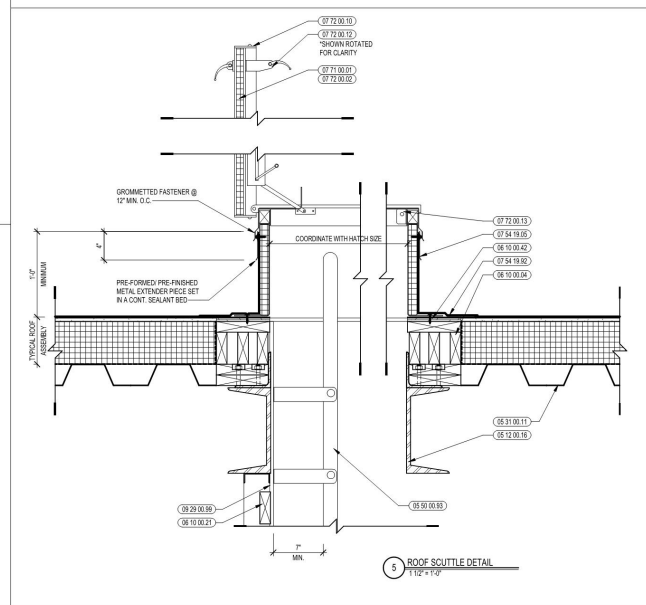
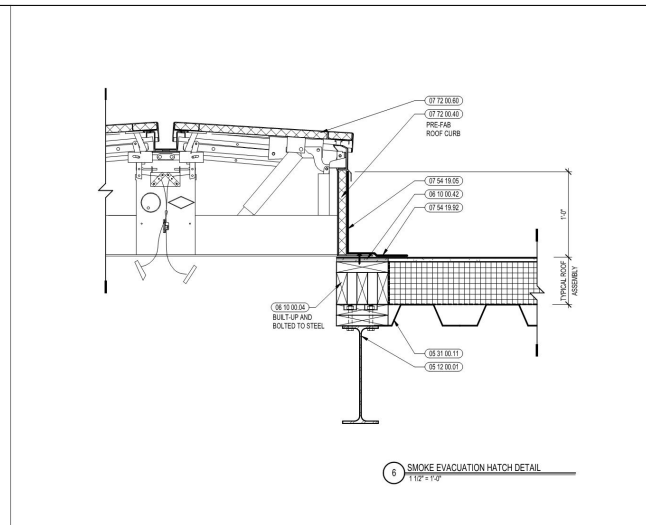
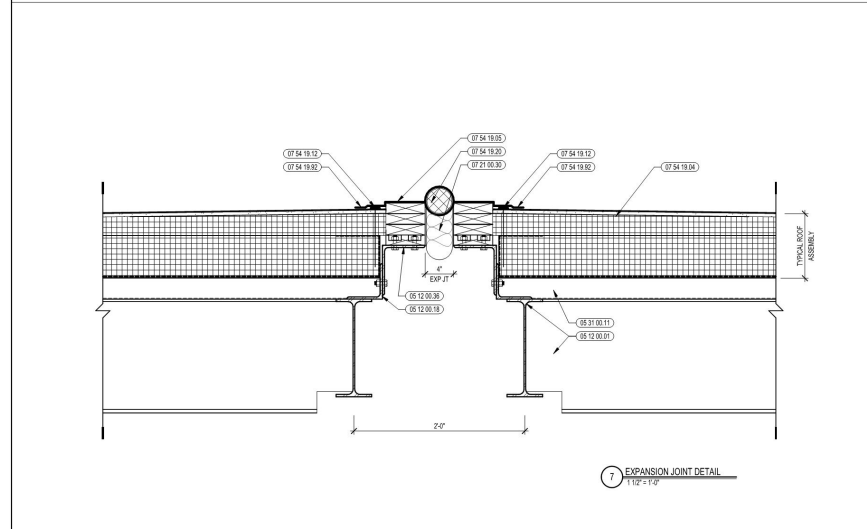
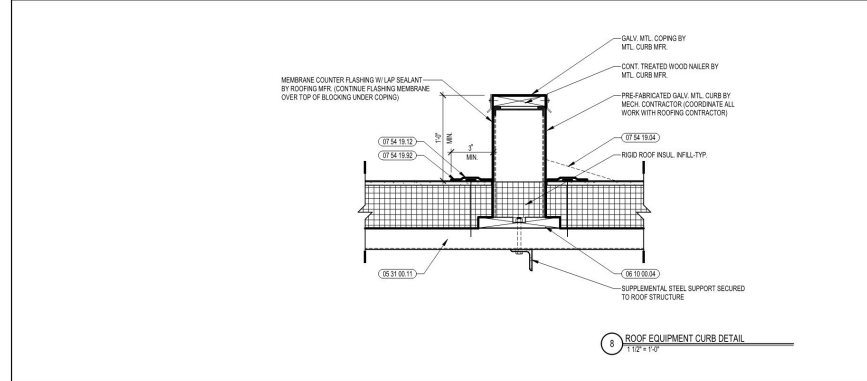
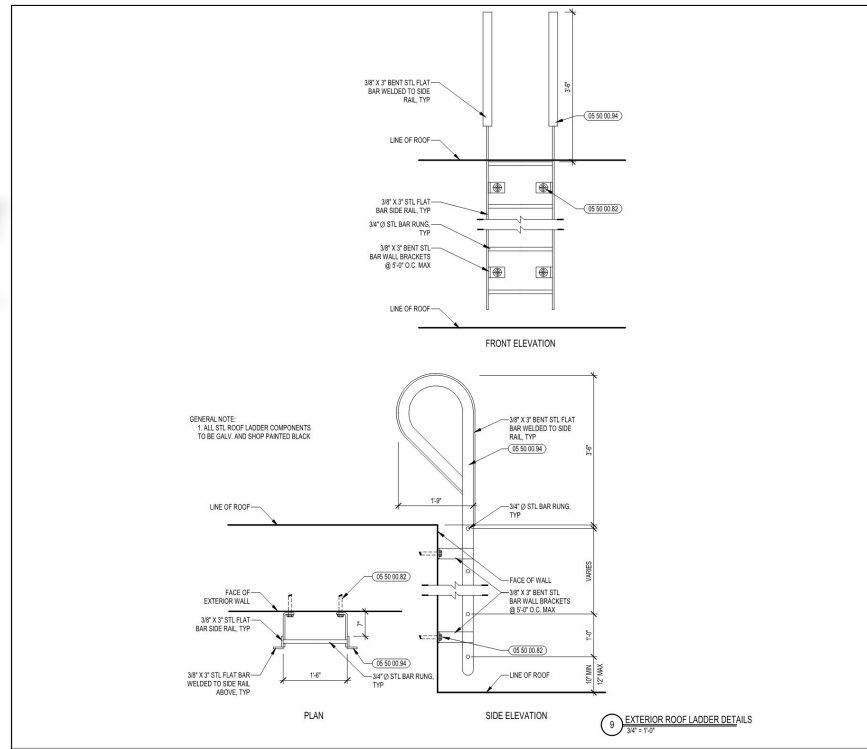
DRAWN BY: CF / JG  
REVIEWED BY: JG

SCALE: AS INDICATED DRAWING NUMBER:  
JOB NO.: 1901.00  
DATE: FEBRUARY 18, 2022

A3.24

# SOMERSET MIDDLE SCHOOL

**60% CD's**  
**Typical Roof Details**



**Ai3 architects**  
538 Boston Post Rd  
928.338.0790  
Wareham, MA  
www.ai3architects.com

**SMS**  
SOMERSET MIDDLE SCHOOL  
1141 Brayton Avenue  
Somerset, Massachusetts

**KEYNOTE LEGEND:**

- 05 12 00 01 STEEL BEAM - SEE STRUCTURAL
- 05 12 00 10 STEEL CHANNEL - SEE STRUCTURAL
- 05 12 00 16 STEEL ANGLE CONTINUOUS - SEE STRUCTURAL
- 05 12 00 36 STEEL PLATE BENT - SEE STRUCTURAL
- 05 12 00 38 STEEL ROOF DECK - 3 INCH GALVANIZED - SEE STRUCTURAL
- 05 50 00 02 EXPANSION BOLT
- 05 50 00 03 ROOF ACCESS LADDER - INTERIOR
- 05 50 00 04 ROOF ACCESS LADDER - EXTERIOR
- 06 10 00 04 WOOD BLOCKING - GALV. CONTINUOUS - PRESSURE TREATED - SEE AS REQUIRED - 2X10@ 8" ON CENTER INSTALLATION SURFACE FOR ROOF TOP CURBS
- 06 10 00 07 WOOD BLOCKING - GALV. PRE-RETARDANT TREATED - SEE AS NOTED OR DRAWN
- 06 10 00 02 POLYWOOD PRESSURE TREATED - 12 INCH
- 07 21 00 03 MINERAL FIBER INSULATION
- 07 21 00 42 FOAMED IN PLACE INSULATION / AIR BARRIER
- 07 54 19 04 FLASHING (FABRICATED INSULATION)
- 07 54 19 05 FLASHING MEMBRANE
- 07 54 19 08 SHEET VAPOR RETARDER - TAPE SEAMS
- 07 54 19 13 BLIND NAILER
- 07 54 19 14 STAINLESS STEEL HOSE CLAMP
- 07 54 19 20 PVC EXPANSION JOINT
- 07 54 19 26 ADHESIVE
- 07 54 19 31 SEALANT - CONTINUOUS
- 07 54 19 32 HOT AIR WELD
- 07 54 19 34 SHEET METAL COLLAR
- 07 62 00 41 SHEET METAL RAIN HOOD
- 07 71 00 01 FACTORY FABRICATED PASCAL TRIM ROOF EDGE - CUSTOM COLOR
- 07 72 00 02 ROOF SCUTTLE - TYPE 2 - 6"X4" X 3"
- 07 72 00 03 NEOPRENE GASKET (OUTER) RESISTANT TYP.
- 07 72 00 04 SPRING LATCH W/ HANDLE AND PADLOCK HASP ON PAOLOLO HASP
- 07 72 00 05 WELDED ALUMINUM CURB
- 07 72 00 06 HEAT AND SHOCK GASKET - 1/2" X 1/2" X 1/2"
- 08 28 00 08 GYPSUM BOARD SYSTEM - LEVEL FINISH - REFER TO FLOOR PLANS AND WALL TYPES FOR COMPONENTS
- 22 00 00 01 ROOF DRAIN ASSEMBLY - SEE PLUMBING
- 22 00 00 02 DRAIN PIPE - SEE PLUMBING
- 22 00 00 03 ROOF TOP LANT - SEE HVAC
- 22 00 00 04 DUCT - SEE HVAC

**60% CONSTRUCTION DOCUMENTS**

KEY PLAN NORTH ARROW

KEY PLAN

DRAWING NAME:  
**TYPICAL ROOF DETAILS**

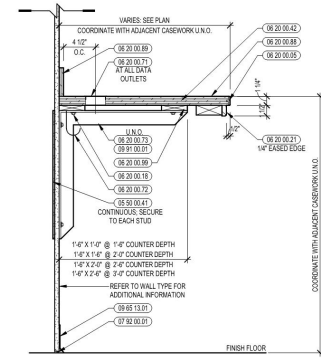
DRAWN BY: CF  
REVIEWED BY: JQ

SCALE: AS INDICATED  
JOB NO.: 1901.00  
DATE: FEBRUARY 18, 2022

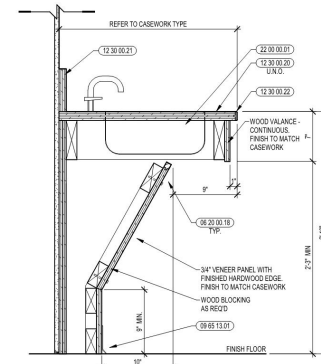
DRAWING NUMBER:  
**A5.20**

# SOMERSET MIDDLE SCHOOL

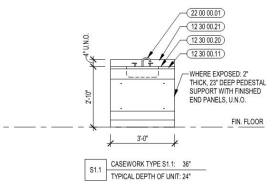
## 60% CD's Casework Types



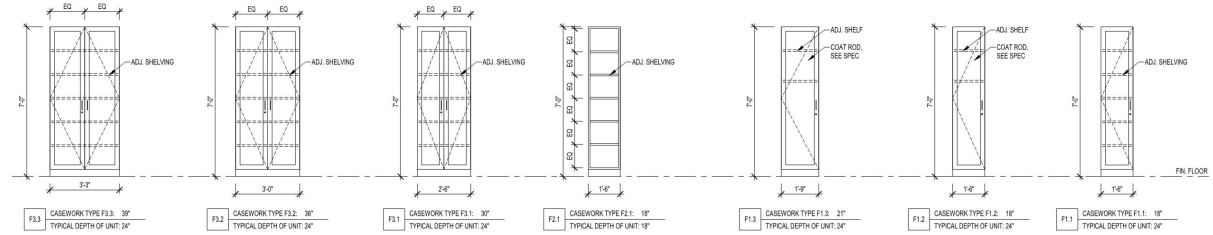
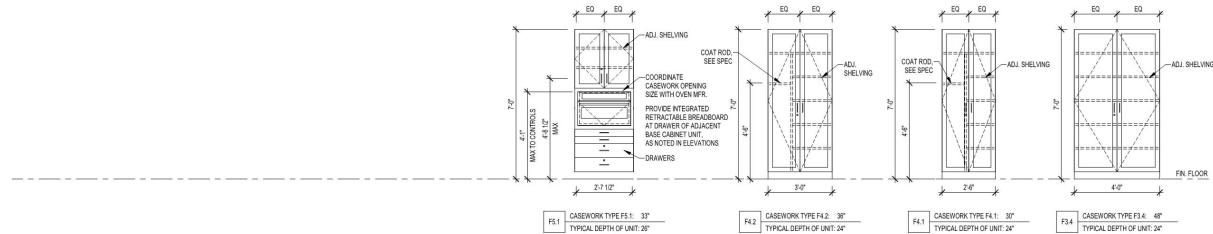
6 TYP. SECTION DETAIL: COUNTER WITH BRACKETS  
1/2" x 1/2"



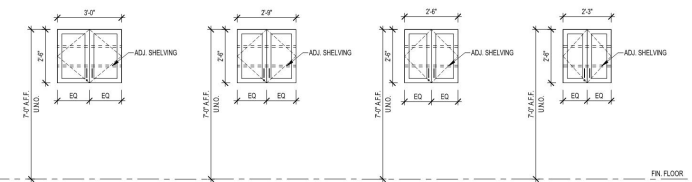
4 SECTION DETAIL: ADA SINKS  
1/2" x 1/2"



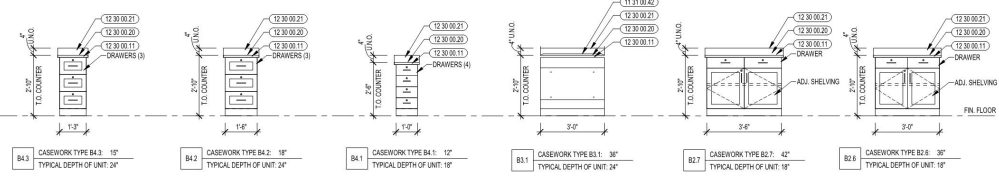
2 CASEWORK TYPES - STANDARD SINK UNITS  
3/8" x 1/4"



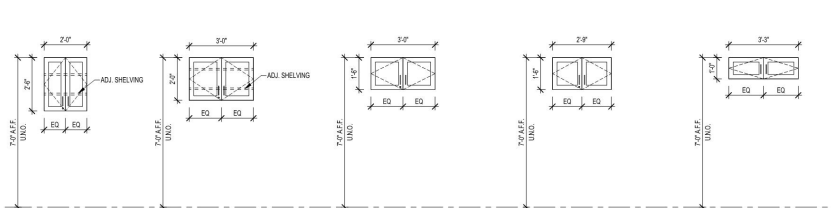
5 CASEWORK TYPES - STANDARD FULL-HEIGHT UNITS  
3/8" x 1/4"



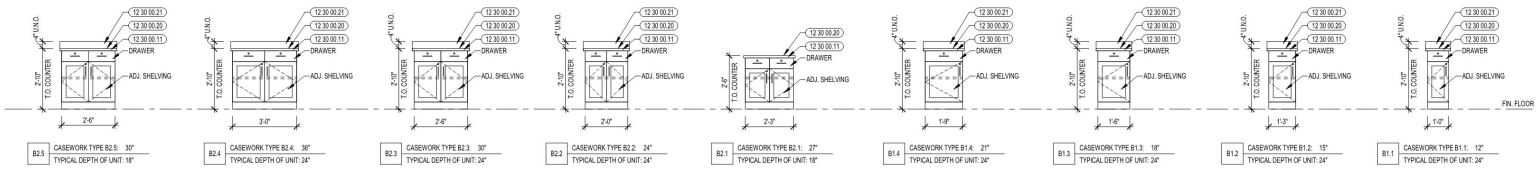
3 CASEWORK TYPES - STANDARD WALL UNITS  
3/8" x 1/4"



1 CASEWORK TYPES - STANDARD BASE UNITS  
3/8" x 1/4"



W2.1 CASEWORK TYPE W2.1: 12" TYPICAL DEPTH OF UNIT: 12"



2 CASEWORK TYPES - STANDARD SINK UNITS  
3/8" x 1/4"



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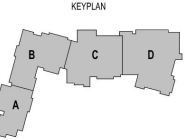
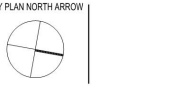


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Somerset, Massachusetts

- KEYNOTE LEGEND:**
- 05 20 00 41 STEEL PLATE - 1/4 INCH THICK - SIZE AS NOTED OR DRAWN
  - 06 20 00 06 HARDWOOD EDGING ON PLYWOOD - TRANSPARENT FINISH
  - 06 20 00 16 STAINLESS STEEL BOLTS - NUTS AND WASHERS - 1/2 INCH DIA
  - 06 20 00 22 HARDWOOD TRIM - 1/2 INCH - TRANSPARENT FINISH
  - 06 20 00 42 PLYWOOD - 5/8 INCH
  - 06 20 00 71 GROMMET - 3 INCH - PLASTIC
  - 06 20 00 72 WIRE MANAGEMENT HOOPS - 1/2 INCHES O.C. - UNDER COUNTER
  - 06 20 00 73 STEEL UNDER COUNTER SUPPORT BRACKET - SIZE AS NOTED OR DRAWN
  - 06 20 00 88 PLASTIC LAMINATE COUNTER TOP
  - 06 20 00 89 PLASTIC LAMINATE BACKSPLASH - HEIGHT AS NOTED
  - 06 20 00 98 WOOD BLOCCING - SIZE AS NOTED OR DRAWN
  - 07 02 00 01 JOINT SEALANT - TYPE AS REQUIRED
  - 08 05 13 01 RUBBER BASE - 4 INCH
  - 09 01 00 01 PAINT - SEE SCHEDULE
  - 11 01 00 42 IN COUNTER COOKTOP - ELECTRIC
  - 12 30 00 10 PVC EDGE BANDING
  - 12 30 00 20 PLASTIC LAMINATE COUNTERTOP
  - 12 30 00 21 PLASTIC LAMINATE BACKSPLASH - 4 INCH
  - 12 30 00 22 PLASTIC LAMINATE BACKSPLASH - 6 INCH
  - 22 00 00 01 SINK - SEE PLUMBING

- GENERAL NOTES:**
1. 12 30 00 TO PROVIDE PLASTIC LAMINATE, STAINLESS STEEL, OR RESIN LABORATORY COUNTERTOPS AND BACKSPLASH FOR ALL CASEWORK CENTER ISLAND PROJECT U.N.O.
  2. COUNTERTOP DEPTH MAY VARY FROM BASE UNIT DEPTH. COUNTERTOPS SHALL ALWAYS EXTEND TO WALLS UNLESS VERRY ALLOCATIONS AND MEASUREMENTS IN FIELD. INCLUDING BUT NOT LIMITED TO: INCHES
  3. G.C. TO FURNISH AND INSTALL GROMMETS AT COUNTERTOP WHERE TECHNOLOGY ELECTRICAL OUTLETS OCCUR
  4. PROVIDE LOCKS ON ALL CASEWORK UNITS U.N.O.
  5. PROVIDE SEAMLESS FILLER PANEL AS REQUIRED AND PROVIDE FINISH END PANELS ON ALL EXPOSED ENDS OR SEALS OF CASEWORK
  6. PROVIDE RUBBER BASE (08 05 13) ON ALL TOE KICKS AND EXPOSED SIDES OF CASEWORK
  7. WHERE IDENTIFIED ON DRAWINGS, CABINET UNIT SHALL BE INSTALLED 8 INCHES FROM WALL FOR PLUMBING CLEARANCE. COUNTERTOPS & FINISHED END PANELS ON UNITS WITH DIPOSED SIDES SHALL ACCOUNT FOR 6 INCHES IN ADDITION TO CABINET DEPTH AND RETURN TO WALL.

### 60% CONSTRUCTION DOCUMENTS



DRAWING NAME: **CASEWORK TYPES - STANDARD**

DRAWN BY: TC

REVIEWED BY: HM / JG

SCALE: AS INDICATED DRAWING NUMBER: 1901.00

JOB NO.: 1901.00

DATE: FEBRUARY 18, 2022

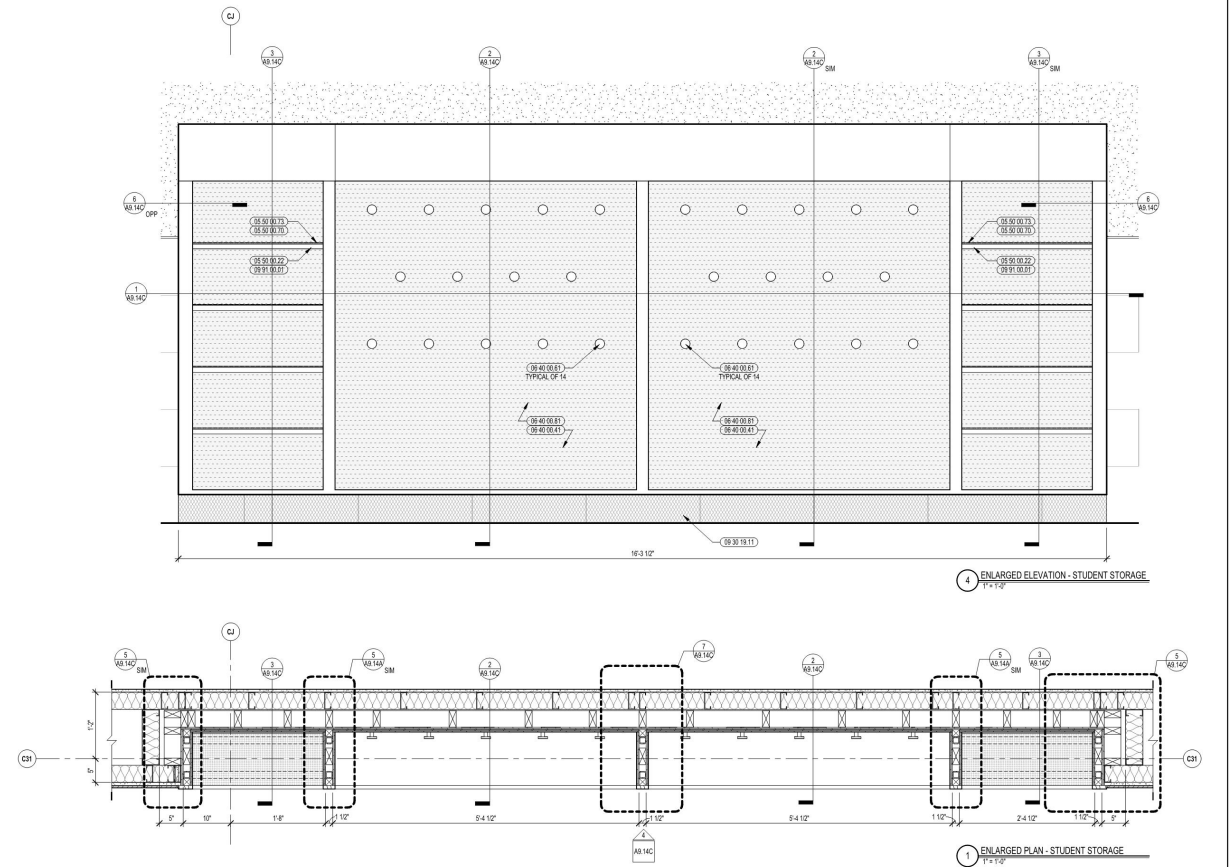
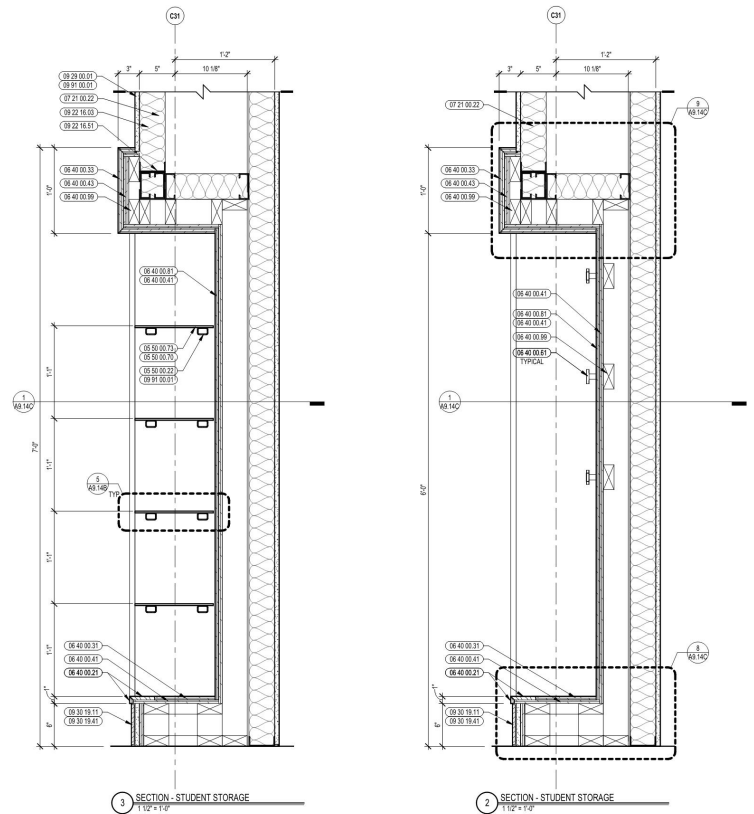
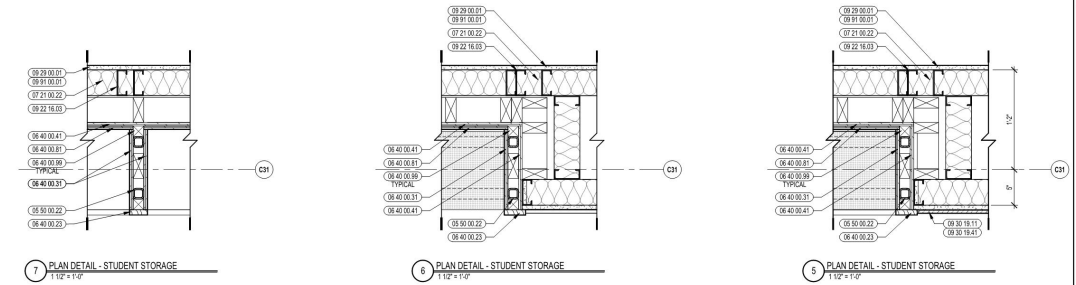
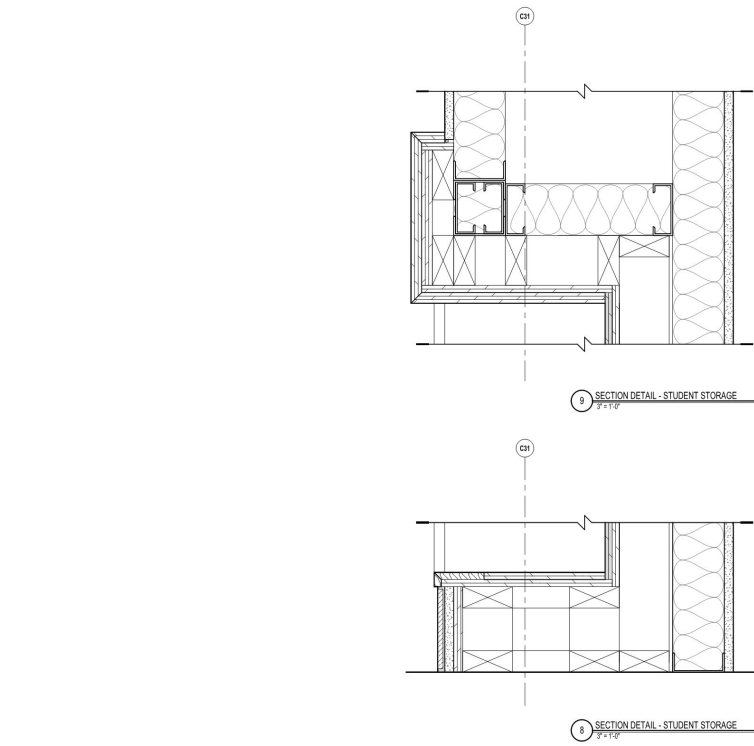
**A7.31**



# SOMERSET MIDDLE SCHOOL

## 60% CD's

### Student Storage Details



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KEYNOTE LEGEND:

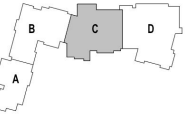
05 50 00 22	STEEL TUBE - SIZE AS NOTED OR DRAWN
05 50 00 70	METAL PANEL U/L EDGE TRIM - 1 INCH - SHOP APPLIED FINISH
05 50 00 73	METAL INFILL PANEL - SHOP APPLIED FINISH - TYPE 3
06 40 00 23	HARDWOOD TRIM - 1/2 INCH - TRANSPARENT FINISH
06 40 00 25	HARDWOOD TRIM - 3/4 INCH - TRANSPARENT FINISH
06 40 00 31	HARDWOOD VENEER PLYWOOD - 1/2 INCH - TRANSPARENT FINISH
06 40 00 33	HARDWOOD VENEER PLYWOOD - 3/4 INCH - TRANSPARENT FINISH
06 40 00 41	PLYWOOD - 1/2 INCH
06 40 00 43	PLYWOOD - 3/4 INCH
06 40 00 01	COAST-HOOK - FLAT TOP BUTTON HOOK
06 40 00 01	PLASTIC LAMINATE - TYPE 1
06 40 00 09	WOOD BLOCKING - SIZE AS NOTED OR DRAWN
07 10 00 01	GLASS FIBER REINFORCED PLASTER INSULATION - MATCH DEPTH OF STUD - UNFACED
09 02 10 01	METAL STUD BRACE - 1/2 INCH - 16 INCHES O.C. MAX
09 02 10 01	5/8 INCH GYPSUM BOARD - LEVEL FINISH - 1 LAYER
09 30 10 01	POSSILAN WALL TILE - TYPE PT-W-1
09 30 10 01	THIN SET TILE SETTING BED
09 91 00 01	PAINT - SEE SCHEDULE

60% CONSTRUCTION DOCUMENTS

KEY PLAN NORTH ARROW



KEY PLAN



DRAWING NAME:

STUDENT STORAGE  
DETAILS

DRAWN BY: TC

REVIEWED BY: HM / JG

SCALE: AS INDICATED DRAWING NUMBER:

JOB NO.: 1901.00

DATE: FEBRUARY 18, 2022

A9.14C

# SOMERSET MIDDLE SCHOOL

## 60% CD's

### Science Classroom Enlarged Plans and Interior Elevations

**10 SMALL GROUP INTERIOR ELEVATION**  
1/4" = 1'-0"

**11 SMALL GROUP INTERIOR ELEVATION**  
1/4" = 1'-0"

**12 SMALL GROUP INTERIOR ELEVATION**  
1/4" = 1'-0"

**7 SITE STORAGE INTERIOR ELEVATION**  
1/4" = 1'-0"

**8 SITE STORAGE INTERIOR ELEVATION**  
1/4" = 1'-0"

**5 STE ROOM INTERIOR ELEVATION**  
1/4" = 1'-0"

**6 STE ROOM INTERIOR ELEVATION**  
1/4" = 1'-0"

**4 STE ROOM INTERIOR ELEVATION**  
1/4" = 1'-0"

**2 STE ROOM INTERIOR ELEVATION**  
1/4" = 1'-0"

**SINKS, FIXTURES & FITTINGS**

THE MANUFACTURER MODEL NUMBERS IDENTIFIED BELOW ARE INTENDED TO ESTABLISH A GENERAL LEVEL OF QUALITY, CONFIGURATION & APPEARANCE. HOWEVER, THIS IS NOT A PERFORMANCE SPECIFICATION. IT IS THE USER'S RESPONSIBILITY TO APPROVE SPECIFIC MANUFACTURER MODEL NUMBERS AND TO VERIFY THAT ALL MANUFACTURERS WILL HAVE SHOWN WORK UNDER APPLICABLE PROJECT SPECIFICATIONS & SUCH MANUFACTURER VARIATIONS SHALL NOT ELIMINATE SUCH MANUFACTURERS AS APPROVED EQUAL.

MANUFACTURER	MODEL NO.	DESCRIPTION
1	FACET MFR	FACET MODEL NO.
2	FACET MFR	FACET MODEL NO.
3	TURRET MFR	MODEL NUMBER
4	EYE WASH MFR	MODEL NUMBER
S.A	EPOXY RESIN INTEGRAL SINK	N/A 18" x 16" x 4" D CLEAR
S.B	EPOXY RESIN INTEGRAL SINK	N/A 18" x 10" x 4" D CLEAR

**STE ROOM ENLARGED PLAN**  
1/4" = 1'-0"

**KEYNOTE LEGEND:**

- 06 20 00 07 HARDWOOD SILL - TRANSPARENT FINISH
- 09 11 13 11 STEEL FRAME - SEE SCHEDULE FOR TYPES
- 06 14 16 01 SOLID CORE INTERIOR DOOR - SEE DOOR SCHEDULE
- 09 20 00 09 GYPSUM BOARD SYSTEM - LEVEL 4 FINISH - REFER TO FLOOR PLANS AND WALL TYPES FOR COMPONENTS
- 09 05 13 01 RUBBER BASE - 4 INCH
- 09 01 00 01 PAINT - SEE SCHEDULE
- 10 11 16 01 DRY MARKER BOARD
- 10 11 16 01 TACK BOARD
- 10 11 16 01 HORIZONTAL SLIDING MARKER BOARD PANEL SYSTEM
- 10 40 01 01 FIRE EXTINGUISHER CABINET - FULLY RECESSED
- 10 40 01 01 FIRE EXTINGUISHER
- 10 40 01 01 FIRE EXTINGUISHER
- 10 23 01 01 PHENOLIC LOCKER - TYPE 1
- 10 23 01 01 PHENOLIC LOCKER - TYPE 2
- 11 31 01 01 DISHWASHER - UNDER-COUNTER
- 11 31 01 01 ICE MAKER
- 11 31 01 01 ACID STORAGE CABINET - BENCH TOP
- 11 53 01 02 FLAMMABLE STORAGE CABINET - BENCH TOP
- 11 53 01 03 COUNTERTOP WATER DISTILLER
- 11 53 01 03
- 12 24 00 01 ROLLER SHADE
- 12 30 00 01 BASE CABINET
- 12 30 00 02 WALL CABINET
- 12 30 00 03 EPOXY RESIN LABORATORY COUNTERTOP
- 12 30 00 04 EPOXY RESIN LABORATORY BACKSPLASH - 4 INCH
- 12 30 00 05 FILLER PIECE SCORDED TO ADJACENT SURFACE - FINISH TO MATCH CASEWORK
- 12 30 00 06 CABINET LIFT SHALL BE INSTALLED 6 INCHES FROM WALL FOR FLAMMABLE STORAGE - COUNTERTOPS & FINISHED END PANELS ON ISLANDS WITH EXPOSED SIDES TO EXTEND TO WALL
- 11 53 00 01
- 20 00 01 01 DECK MOUNTED DRAWING FOR MOUNTING
- 22 00 00 01 EMERGENCY EYE WASH/SHOWER STATION
- 26 00 00 01 ELECTRICAL OUTLET - SEE ELECTRICAL
- 27 00 00 01 DATA OUTLET - SEE TECHNOLOGY
- 27 40 00 02 CAMERA - SEE TECHNOLOGY
- 27 40 00 03 DISPLAY - INTERACTIVE - SEE TECHNOLOGY

**GENERAL NOTES:**

- NOT ALL POWER AND DATA OUTLET SWITCHING LOCATIONS SHOWN. COORDINATE WITH ELECTRICAL AND TECHNOLOGY DRAWINGS FOR ALL LOCATIONS.
- REFER TO DETAILS ON S11 FOR FIRE EXTINGUISHER DETAILS AND MOUNTING HEIGHTS.
- ALL SINK LOCATIONS TO BE COORDINATE WITH PLUMBING DRAWINGS. RESPECTIVE TOILET ACCESSORIES LEGEND AND SCHEDULE ON DRAWING AS FOR ADDITIONAL INFORMATION.
- WHERE EXPOSED: ALL STRUCTURAL MEMBERS & MEPP SHALL RECEIVE PAINLESS FINISH. HORIZONTAL PAINT TRANSITION LINE TO BE COORDINATED ON WALLS OF SPACES WITH EXPOSED DECKING.

**60% CONSTRUCTION DOCUMENTS**

KEY PLAN NORTH ARROW

KEY PLAN

**DRAWING NAME:**  
**SCIENCE CLASSROOM ENLARGED PLANS AND INTERIOR ELEVATIONS**

**DRAWN BY:** TC  
**REVIEWED BY:** HM / JC  
**SCALE:** AS INDICATED  
**DRAWING NUMBER:** A9.25  
**JOB NO.:** 1901.00  
**DATE:** FEBRUARY 18, 2022



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Weymouth, MA  
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**KEYNOTE LEGEND:**

- 06 20 00 07 HARDWOOD SILL - TRANSPARENT FINISH
- 09 11 13 11 STEEL FRAME - SEE SCHEDULE FOR TYPES
- 06 14 16 01 SOLID CORE INTERIOR DOOR - SEE DOOR SCHEDULE
- 09 20 00 09 GYPSUM BOARD SYSTEM - LEVEL 4 FINISH - REFER TO FLOOR PLANS AND WALL TYPES FOR COMPONENTS
- 09 05 13 01 RUBBER BASE - 4 INCH
- 09 01 00 01 PAINT - SEE SCHEDULE
- 10 11 16 01 DRY MARKER BOARD
- 10 11 16 01 TACK BOARD
- 10 11 16 01 HORIZONTAL SLIDING MARKER BOARD PANEL SYSTEM
- 10 40 01 01 FIRE EXTINGUISHER CABINET - FULLY RECESSED
- 10 40 01 01 FIRE EXTINGUISHER
- 10 40 01 01 FIRE EXTINGUISHER
- 10 23 01 01 PHENOLIC LOCKER - TYPE 1
- 10 23 01 01 PHENOLIC LOCKER - TYPE 2
- 11 31 01 01 DISHWASHER - UNDER-COUNTER
- 11 31 01 01 ICE MAKER
- 11 31 01 01 ACID STORAGE CABINET - BENCH TOP
- 11 53 01 02 FLAMMABLE STORAGE CABINET - BENCH TOP
- 11 53 01 03 COUNTERTOP WATER DISTILLER
- 11 53 01 03
- 12 24 00 01 ROLLER SHADE
- 12 30 00 01 BASE CABINET
- 12 30 00 02 WALL CABINET
- 12 30 00 03 EPOXY RESIN LABORATORY COUNTERTOP
- 12 30 00 04 EPOXY RESIN LABORATORY BACKSPLASH - 4 INCH
- 12 30 00 05 FILLER PIECE SCORDED TO ADJACENT SURFACE - FINISH TO MATCH CASEWORK
- 12 30 00 06 CABINET LIFT SHALL BE INSTALLED 6 INCHES FROM WALL FOR FLAMMABLE STORAGE - COUNTERTOPS & FINISHED END PANELS ON ISLANDS WITH EXPOSED SIDES TO EXTEND TO WALL
- 11 53 00 01
- 20 00 01 01 DECK MOUNTED DRAWING FOR MOUNTING
- 22 00 00 01 EMERGENCY EYE WASH/SHOWER STATION
- 26 00 00 01 ELECTRICAL OUTLET - SEE ELECTRICAL
- 27 00 00 01 DATA OUTLET - SEE TECHNOLOGY
- 27 40 00 02 CAMERA - SEE TECHNOLOGY
- 27 40 00 03 DISPLAY - INTERACTIVE - SEE TECHNOLOGY

**GENERAL NOTES:**

- NOT ALL POWER AND DATA OUTLET SWITCHING LOCATIONS SHOWN. COORDINATE WITH ELECTRICAL AND TECHNOLOGY DRAWINGS FOR ALL LOCATIONS.
- REFER TO DETAILS ON S11 FOR FIRE EXTINGUISHER DETAILS AND MOUNTING HEIGHTS.
- ALL SINK LOCATIONS TO BE COORDINATE WITH PLUMBING DRAWINGS. RESPECTIVE TOILET ACCESSORIES LEGEND AND SCHEDULE ON DRAWING AS FOR ADDITIONAL INFORMATION.
- WHERE EXPOSED: ALL STRUCTURAL MEMBERS & MEPP SHALL RECEIVE PAINLESS FINISH. HORIZONTAL PAINT TRANSITION LINE TO BE COORDINATED ON WALLS OF SPACES WITH EXPOSED DECKING.

**60% CONSTRUCTION DOCUMENTS**

KEY PLAN NORTH ARROW

KEY PLAN

**DRAWING NAME:**  
**SCIENCE CLASSROOM ENLARGED PLANS AND INTERIOR ELEVATIONS**

**DRAWN BY:** TC  
**REVIEWED BY:** HM / JC  
**SCALE:** AS INDICATED  
**DRAWING NUMBER:** A9.25  
**JOB NO.:** 1901.00  
**DATE:** FEBRUARY 18, 2022

# SOMERSET MIDDLE SCHOOL

## 60% CD's

### Mailbox Details



538 Boston Post Rd  
938.338.0790  
Wareham, MA  
www.ai3architects.com

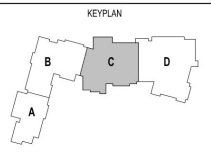
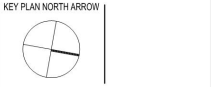


1141 Brayton Avenue  
Somerset, Massachusetts

**KEYNOTE LEGEND:**

- 06 40 00 21 HARDWOOD TRIM - 1/2 INCH - TRANSPARENT FINISH
- 06 40 00 20 HARDWOOD EDGING ON PLYWOOD - TRANSPARENT FINISH
- 06 40 00 31 HARDWOOD VENER PLYWOOD - 1/2 INCH - TRANSPARENT FINISH
- 06 40 00 81 PLASTIC LAMINATE - TYPE 1
- 06 40 00 90 WOOD BLOCKING - SIZE AS NOTED OR DRAWN
- 07 20 00 20 GLASS FIBER REINFORCED BLANKET INSULATION - MATCH DEPTH OF STUD - UNFACED
- 09 20 00 00 METAL STUD 3/8 INCH - 16 INCHES O.C. MAX
- 09 20 00 01 5/8 INCH GYPSUM BOARD - LEVEL 4 FINISH - 1 LAYER
- 09 20 00 02 5/8 INCH GYPSUM BOARD - LEVEL 4 FINISH - 2 LAYERS
- 09 20 00 00 GYPSUM BOARD SYSTEM - LEVEL 4 FINISH - REFER TO FLOOR PLANS AND WALL TYPES FOR COMPONENTS
- 09 85 00 01 RUBBER BASE - 1/4 INCH
- 09 81 00 01 PAINT - SEE SCHEDULE
- 12 30 00 01 BASE CABINET
- 12 30 00 00 PLASTIC LAMINATE COUNTERTOP
- 12 30 00 02 PLASTIC LAMINATE BACKPLASH - 4 INCH

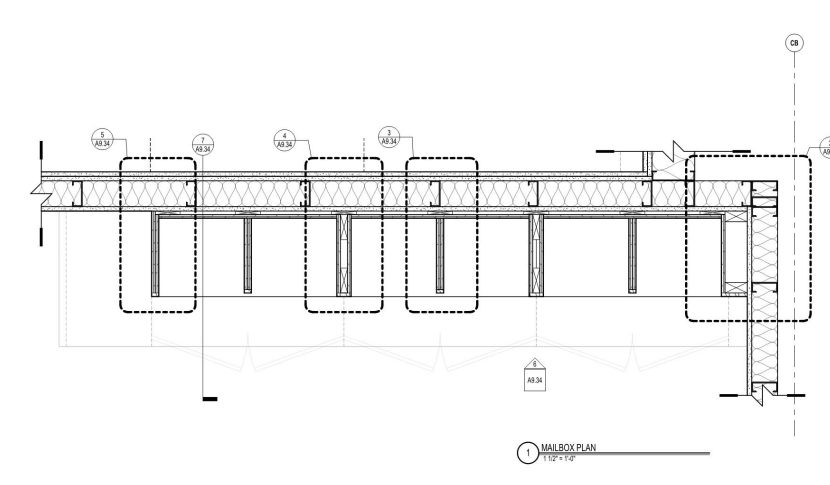
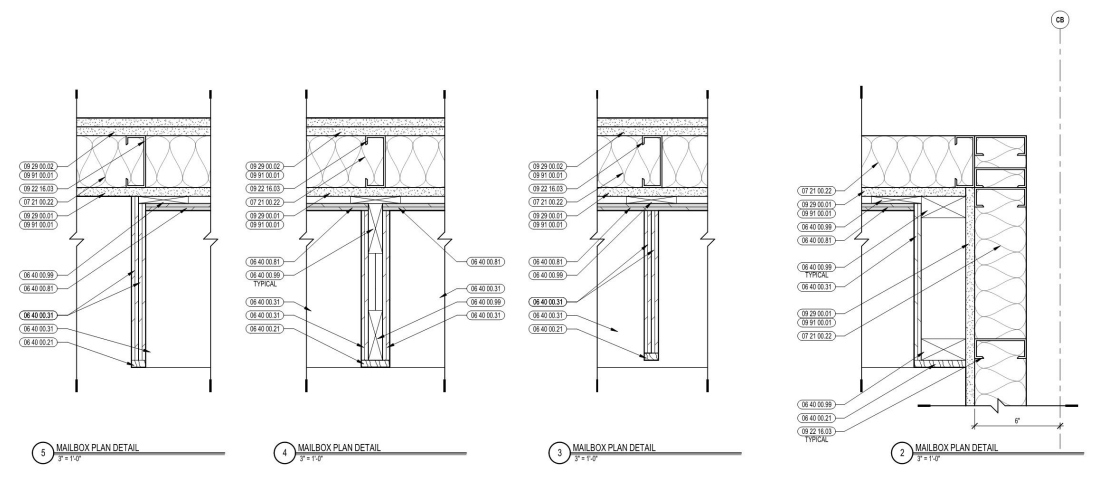
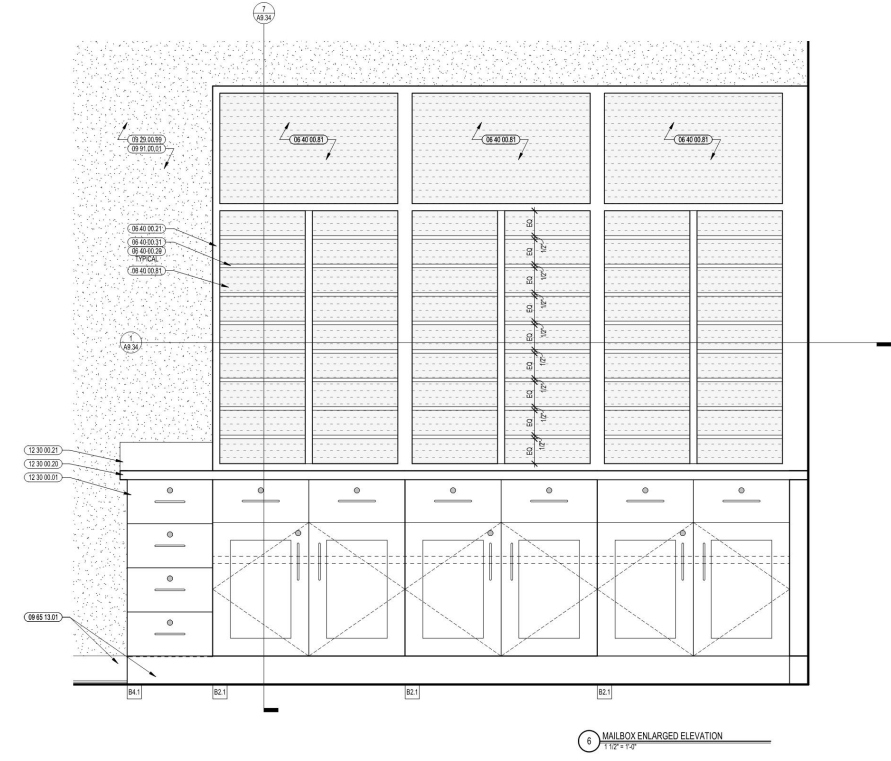
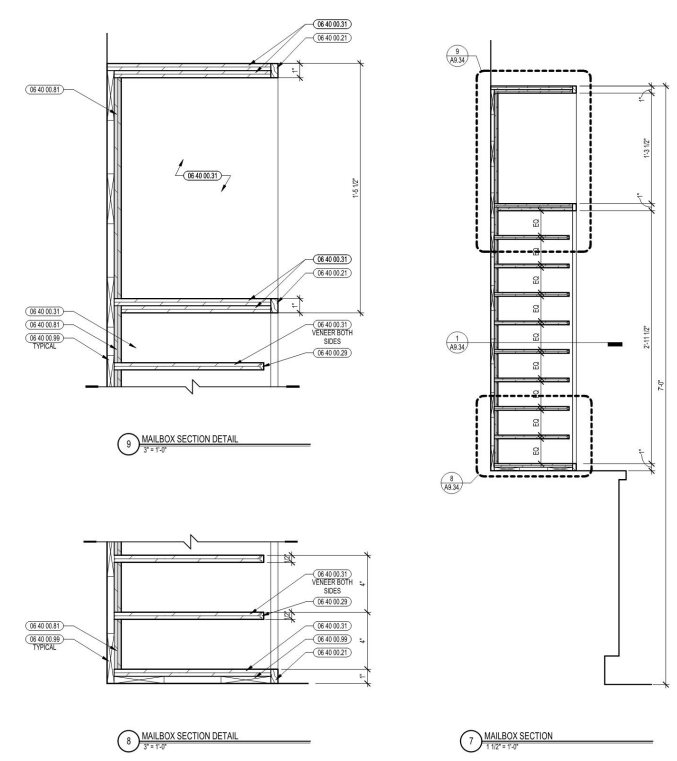
60% CONSTRUCTION DOCUMENTS



DRAWING NAME:  
**MAILBOX DETAILS**

DRAWN BY: TC  
REVIEWED BY: HM / JG

SCALE: AS INDICATED | DRAWING NUMBER:  
JOB NO.: 1901.00  
DATE: FEBRUARY 18, 2022 | **A9.34**



## *At the next SBC Meeting*

**February 10, 2022 (tentative)**

- Phasing Plans
- Irrigation Approach
- Loading Dock / General Receiving
- Site Signage
- Value Engineering review and approval

**February 14, 2022**

- Approval of Proprietary items
- Approval of 60% Construction Document submission to the MSBA

# SOMS

SOMERSET MIDDLE SCHOOL

