



**W.T. RICH COMPANY, INC.**

**Manchester Memorial  
Elementary School  
Manchester-by-the-Sea, MA**

**MONTHLY CONSTRUCTION REPORT**



*Owner:*  
**Manchester Essex Regional School  
District**  
Manchester-by-the-Sea, MA

*Owner's Project Manager:*  
**Dore & Whittier Management Partners**

*Designer:*  
**JCJ Architecture**  
Boston, MA

*Construction Manager:*  
**W. T. RICH COMPANY, INC.**  
29 Crafts Street, Suite 300  
Newton, MA 02458  
617-467-6010

December 2020

**Manchester Memorial Elementary School  
Monthly Construction Report Summary – November 2020**

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**Manchester Memorial Elementary School  
Monthly Construction Report Summary – December 2020**

**SECTION 1 - PROJECT SCHEDULE UPDATE**

**Summary:**

Our attached schedule update has a **data date of 01/05/2021**, so is inclusive of all progress through this date. Below are several notes in summary of progress and anticipated schedule, shown in our schedule update.

**Permitting:**

- MFD has approved Phase 2 temporary heat set up. Gas piping inspection for heater scheduled for 1/6/21.
- Samiotes reviewing Stormwater Management System submittal. Will be forwarded to Con Com for review.

**Phase 2 – Upcoming Critical Path Milestones (per Updated P6 Schedule):**

MILESTONE ACTIVITY	PREV PROJECTED P6 COMPLETION	ACTUAL COMPLETION DATE
Phase 2 B Building Exterior Framing and Sheathing	12/21/20	12/24/20
Phase 2 C Building Exterior Framing and Sheathing	12/29/20	1/6/20
Phase 2 Rough-in Complete	3/4/20	

**December Summary of Phase 2 Progress:**

- Framing and sheathing in B Building complete. C building ongoing.
- Roof installation at B complete.
- Structural steel detailing and corrective work ongoing.
- AVB and CMU back-up installed.
- Temp heat and temp protection installed.
- Lost approximately three working days due to weather (snow)

**January Look Ahead:**

- Structural steel detailing and corrective work to be completed.
- C Building framing/sheathing/roofing to be completed.
- Mechanical, electrical, plumbing, and fire protection rough-in start.
- Exterior AVB to start.
- Storefront window installation to begin.
- Projecting Phase 2 masonry veneer to begin.

**Manchester Memorial Elementary School  
Monthly Construction Report Summary – December 2020**

**SECTION 2 – PROGRESS PHOTOS**





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43 Lincoln Street  
Manchester by the Sea, Massachusetts 01944



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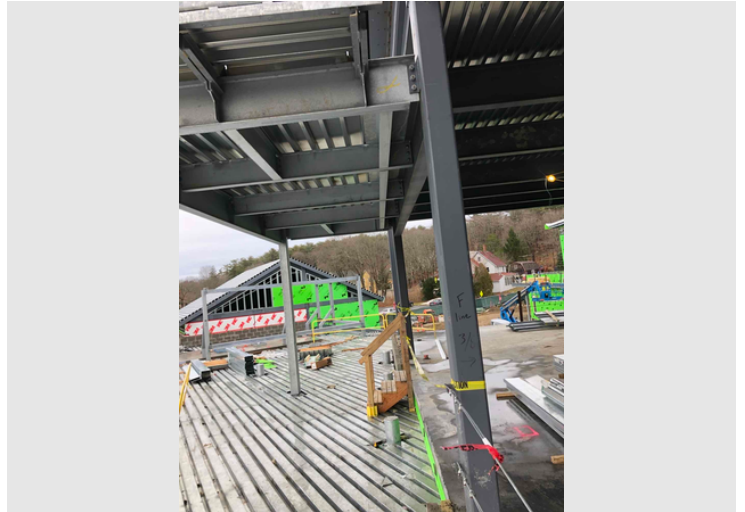
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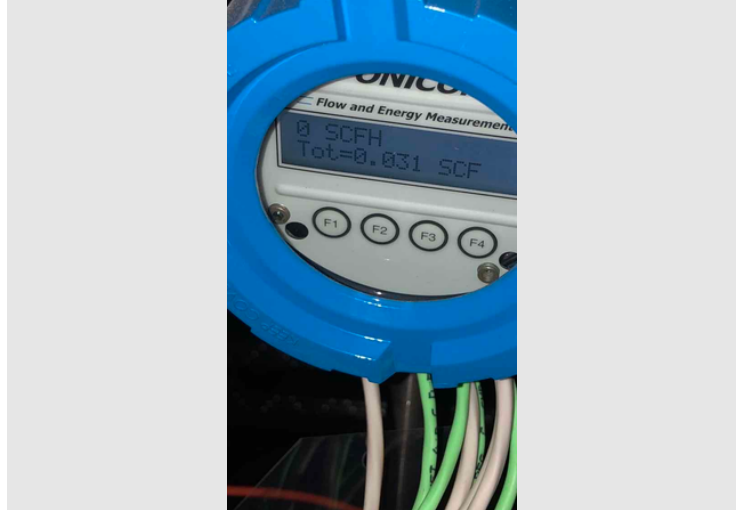
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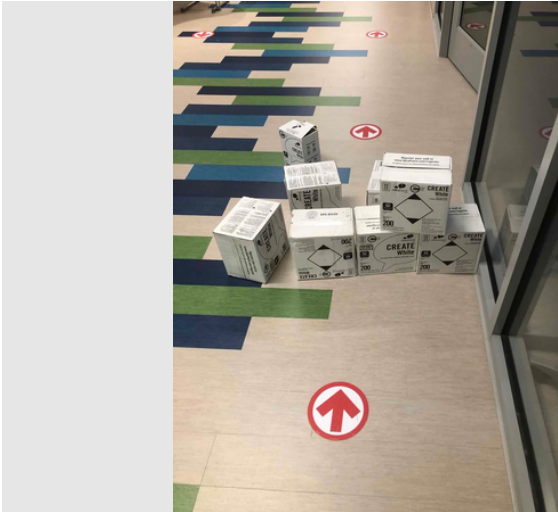




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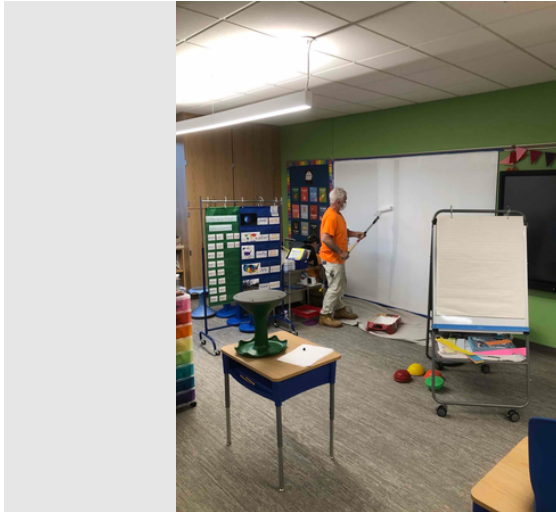
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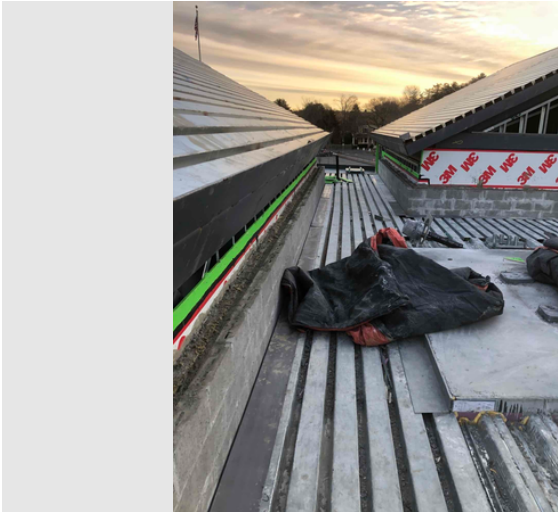
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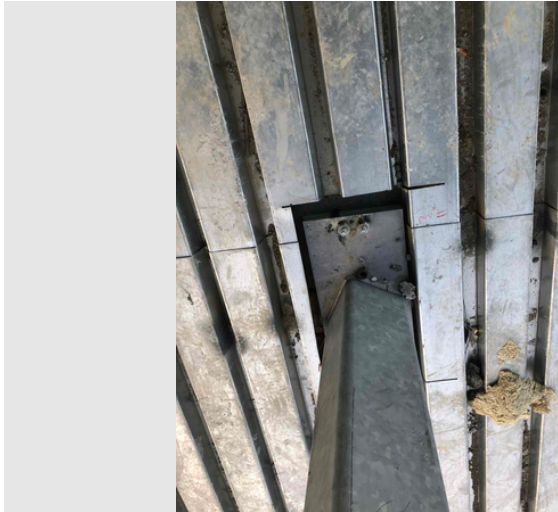
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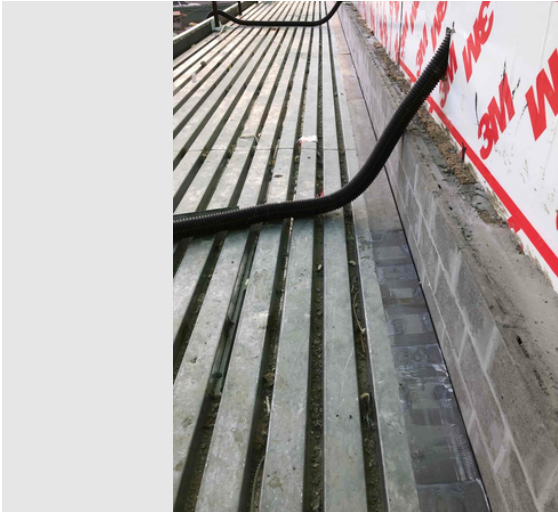
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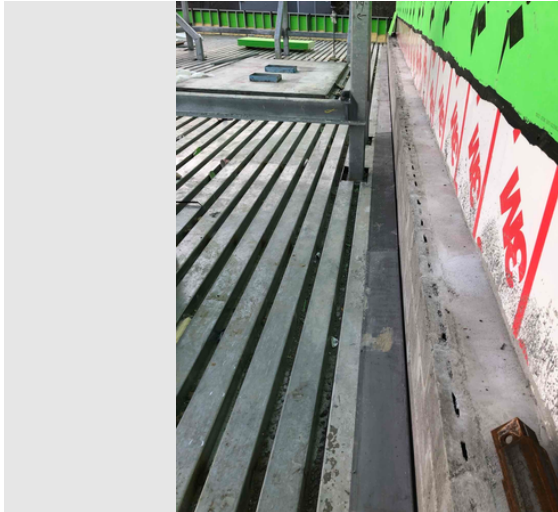
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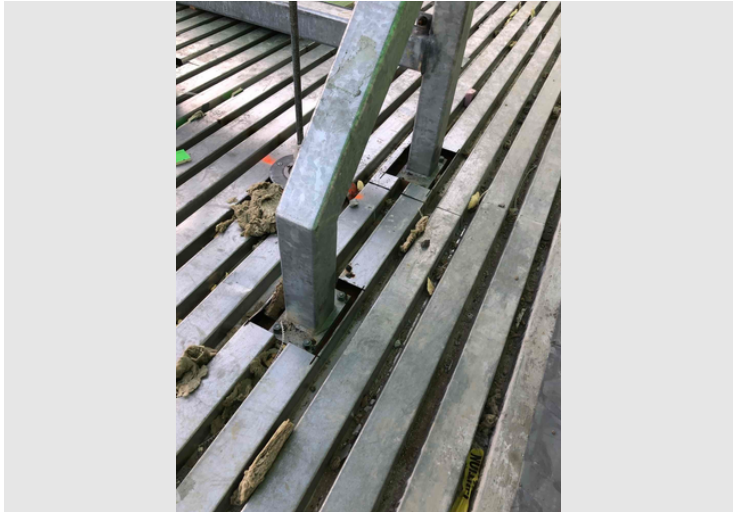
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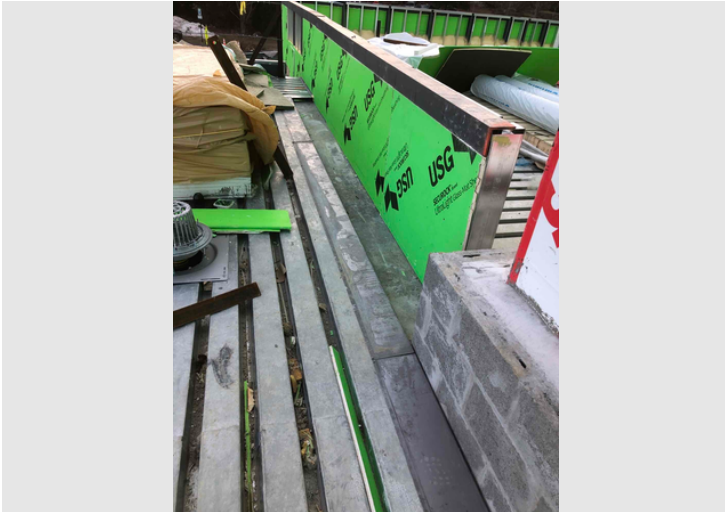
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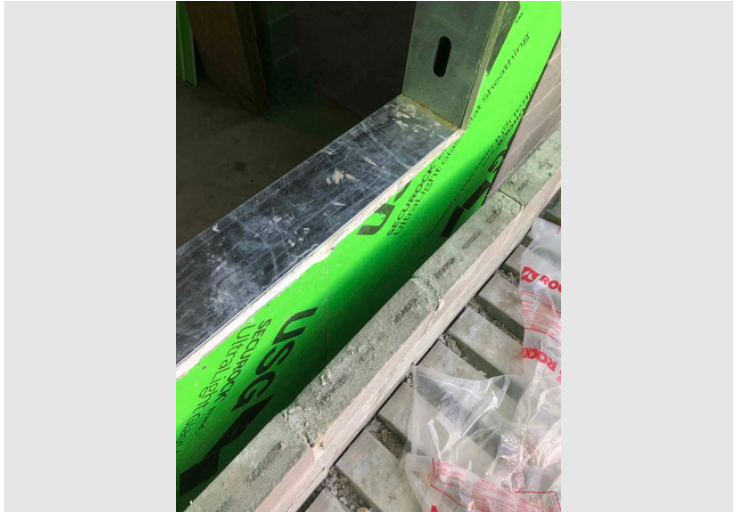
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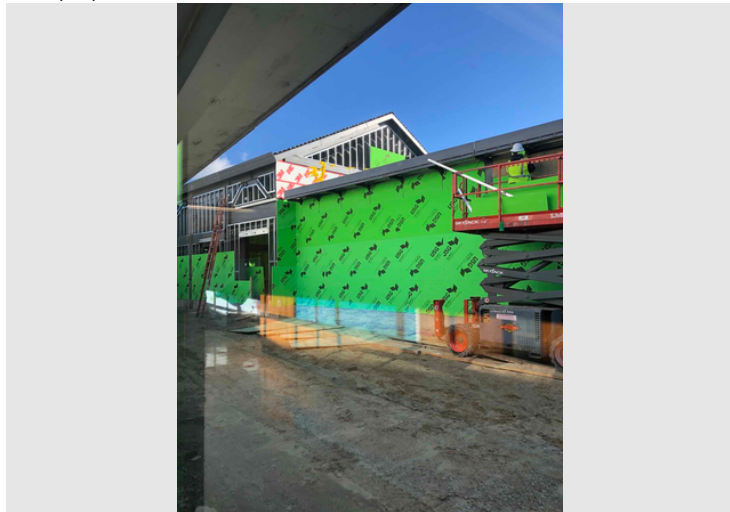
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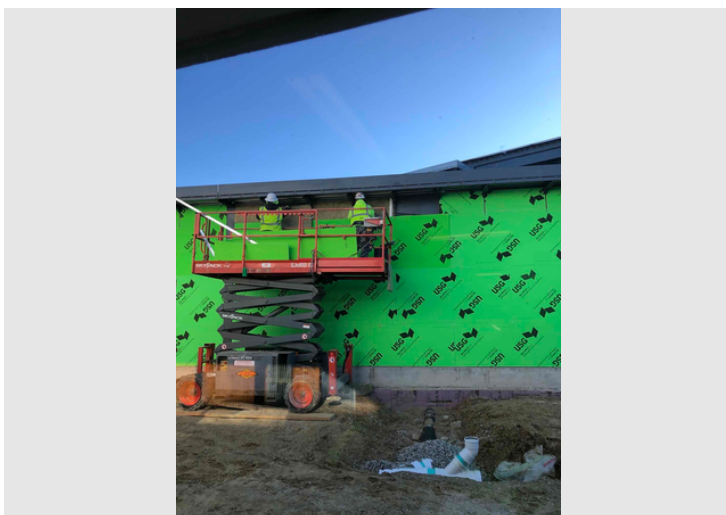
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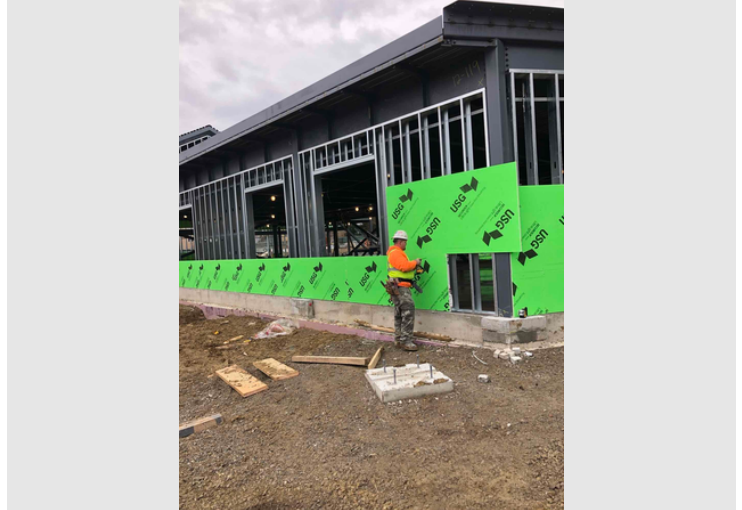
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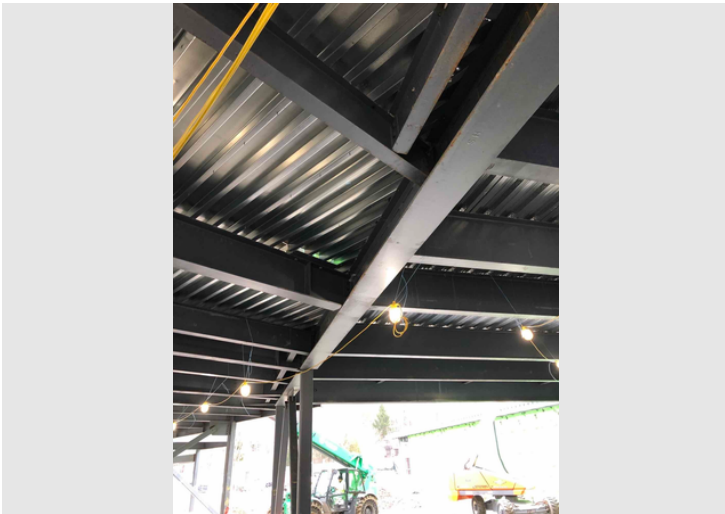




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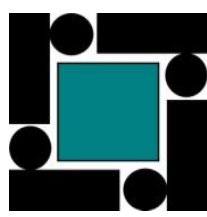
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**Manchester Memorial Elementary School  
Monthly Construction Report Summary – December 2020**

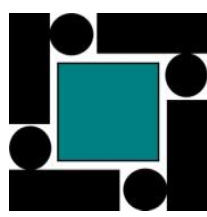
**SECTION 3 – ATTACHMENTS**





Manchester Memorial Elementary School

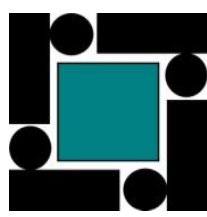
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						12/28	12/29	12/30	12/31	1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17
Milestone/Activity Description		Responsibility	First Delivery	Initial Inspection	Start Date	End Date																				
UPCOMING MILESTONES / GENERAL																										
Building Interior - Punchlist																										
E. Amanti & Sons Plumbing																										
Tie in Kiln	JDB	Not Required		12/28/20	12/30/20																					
Annese Electric																										
Tie in Kiln	JDB	Not Required		12/28/20	12/30/20																					
O'Byrne Painting																										
White Board Mock-Up	TP	Not Required		Complete	Complete																					
Recondition White Board 2nd Shift	JDB	Not Required		12/20/20	12/30/20																					
MMES Team																										
JCJ Back Punch	JDB	Not Required		08/05/20	TBD																					
Building Exterior & Punchlist																										
A&A Windows																										
Complete Arch Punch list (Phase - II)	TP	Not Required			TBD																					
Northshore Steel																										
Complete Arch Punch list (Phase - II)	TP	Not Required			TBD																					
MMES Team																										
JCJ Punchlist	JDB	Not Required		07/16/20	TBD																					
Phase 2																										
Annese Electric																										
Temporary Power & Lighting	KN	Not Required		09/14/20	12/30/20																					
Branch Circuit Wiring	JDB	Not Required		12/28/20	TBD																					
Rough B Building Security & FA	JDB	Not Required		01/04/21	TBD																					
Rough B Building TEL/DATA	JDB	Not Required		01/04/21	TBD																					
Build Out B Building Electrical Room	JDB	Not Required		01/08/21	TBD																					
Rough C Building Security & FA	JDB	Not Required		01/18/21	TBD																					
Rough C Building TEL/DATA	JDB	Not Required		01/18/21	TBD																					
MEP Rough Inspection B Building (PROJECTED)	JDB	Not Required		02/12/21	02/12/21																					
MEP Rough Inspection C Building (PROJECTED)	JDB	Not Required		02/26/21	02/26/21																					
MEP In-Wall Complete / Ready to Close Walls B Building (PROJECTED)	JDB	Not Required		03/05/21	03/05/21																					
MEP In-Wall Complete / Ready to Close Walls C Building (PROJECTED)	JDB	Not Required		03/12/21	03/12/21																					
E. Amanti & Sons - Plumbing																										
Installation Roof Rain Leaders and Drains Throughout	KN	Scheduled		11/02/20	12/31/20																					
Temporary Heat (Projected)	KN	Not Required		12/31/20	12/31/20																					
Gas Piping	JDB	Not Required		Complete	Complete																					
Vents to Roof	JDB	Not Required																								
Rough B Building Plumbing	JDB	Not Required		01/04/21	TBD																					
Rough C Building Plumbing	JDB	Not Required		01/18/21	TBD																					
MEP Rough Inspection B Building (PROJECTED)	JDB	Not Required		02/17/21	02/17/21																					
MEP Rough Inspection C Building (PROJECTED)	JDB	Not Required		03/05/21	03/05/21																					
MEP In-Wall Complete / Ready to Close Walls B Building (PROJECTED)	JDB	Not Required		03/05/21	03/05/21																					
MEP In-Wall Complete / Ready to Close Walls C Building (PROJECTED)	JDB	Not Required		03/19/21	03/19/21																					
E. Amanti & Sons - HVAC																										
Set RTU Curbs B Building	JDB	Not Required		01/05/21	01/05/21																					
Set RTU Curbs C Building	JDB	Not Required		01/05/21	01/05/21																					
RTU Delivery (PROJECTED)	JDB	Not Required		01/25/21	01/29/21																					
Install Ductwork B Building (Gymnasium)	JDB	Not Required		01/04/21	02/12/21																					
Install Ductwork B (Kitchen/Caf/Maintenance) (PROJECTED)	JDB	Not Required		TBD	02/19/21																					
Install Ductwork C Building (Admin/Pre-K)	JDB	Not Required		01/18/21	03/05/21																					
Install Ductwork C Building (Media Center)	JDB	Not Required		TBD	03/05/21																					
Installation of Rough Heating B	JDB	Not Required		01/04/21	02/19/21																					
Installation of Rough Heating C	JDB	Not Required		01/18/21	03/05/21																					
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MEP Rough Inspection C Building (PROJECTED)	JDB	Not Required		03/05/21	03/05/21																					
MEP In-Wall Complete / Ready to Close Walls B Building (PROJECTED)	JDB	Not Required		03/05/21	03/05/21																					
MEP In-Wall Complete / Ready to Close Walls C Building (PROJECTED)	JDB	Not Required		03/19/21	03/19/21																					



Manchester Memorial Elementary School

						MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
						12/28	12/29	12/30	12/31	1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17
Milestone/Activity Description						Responsibility	First Delivery	Initial Inspection	Start Date	End Date																
United Civil																										
Connect Grease Trap	JDB	Not Required		TBD	TBD																					
Cogswell Sprinklers																										
Piping from Phase 1	JDB	Not Required		01/18/21	01/18/21																					
Stairwell Stand Pipe	JDB	Not Required		01/18/21	TBD																					
Sprinkler Pipe Main B Building	JDB	Not Required		01/18/21	TBD																					
North Shore Steel																										
Stair #2	JDB	Not Required		TBD	TBD																					
Café/Gym Folding partition support	JDB	Not Required		01/04/21	01/08/21								X	X	X	X	X									
Roof Access Ladders	JDB	Not Required		TBD	TBD																					
Supply loose lintels	JDB	Not Required		03/01/20																						
Stellar Steel																										
Final Welding & set lintels	TP	Not Required		12/07/20	12/31/20	X	X	X	X																	
Complete JTC Report items (Waiting on Reports)	TP	Not Required		12/28/20	12/31/20	X	X	X	X																	
Roof Deck Enclosures	TP	Not Required		12/29/20	12/30/20		X	X																		
SOEP																										
Spray Installation Parapet B Building	TP	Not Required		Complete	Complete																					
JLM																										
Demobilize & Clean up	JDB	Not Required		12/07/20	12/31/20	X	X	X	X																	
Manganaro																										
Roof Edge Framing & Blocking B Building	JDB	Not Required		12/21/20	01/08/21	X	X	X	X	X			X	X	X	X	X									
Roof Edge Framing & Blocking C Building	JDB	Not Required		12/30/20	01/08/21			X	X	X			X	X	X	X	X									
Exterior Framing & Dense Glass B Building	JDB	Scheduled		12/10/20	12/29/20	X	X																			
Window Blocking B Building	JDB	Not Required		01/11/21	01/25/21															X	X	X	X	X		
Exterior Framing & Dense Glass C Building	JDB	Scheduled		12/21/20	01/08/21	X	X	X	X	X			X	X	X	X	X									
Window Blocking C Building	JDB	Not Required		01/28/21	02/15/21																					
Frame & Board Electrical Room B Building	JDB	Not Required		12/29/20	01/08/21		X	X	X	X			X	X	X	X	X									
Interior Framing B Building	JDB	Not Required		12/31/20	TBD				X	X			X	X	X	X	X			X	X	X	X	X		
Interior Framing C Building	JDB	Not Required		01/04/21	TBD								X	X	X	X	X			X	X	X	X	X		
Ready to Close Walls B Building*	JDB	Not Required		TBD	TBD																					
Ready to Close Walls C Building*	JDB	Not Required		TBD	TBD																					
The Waterproofing Co																										
Installation VB B Building	JDB	Scheduled		01/04/21	01/28/21								X	X	X	X	X			X	X	X	X	X		
Installation VB C Building	JDB	Scheduled		01/29/21	02/18/21																					
Installation VB Hub	JDB	Scheduled		02/23/21	03/02/21																					
Marmelo Brothers Inc.																										
CMU Backup Walls - Media Center	JDB	Not Required		12/28/20	TBD	X	X	X	X	X			X	X	X	X	X			X	X	X	X	X		
CMU Backup Walls - Hub (PENDING RFI RESPONSE)	JDB	Not Required		12/09/20	TBD	X	X	X	X	X			X	X	X	X	X			X	X	X	X	X		
Masonry Veneer - Building B (projected)	JDB	Not Required		03/01/20																						
Masonry Veneer - Building C	JDB	Not Required		TBD																						
CMU backup C building	JDB	Not Required		Complete	Complete																					
Stair #3 Wall Patching	JDB	Not Required		TBD	TBD																					
Stanley Roofing																										
Install Roof Gym Edge Detail	TP	Completed		TBD	TBD																					
Media center roof detailing	TP	Scheduled		TBD	TBD																					
Café, Kitchen Roof	TP	Scheduled		Complete	Complete																					
Custodian & Gym corridor roof	TP	Scheduled		01/04/21	01/06/21								X	X	X											
Install Roof Admin Low Roof -> Pre-K, Hub (including termination)	TP	Scheduled		01/11/21	01/29/21															X	X	X	X	X		
Shingle roof kindergarden & hub (Stock arrives 12/15/20)	TP	Scheduled		01/11/21	01/29/21															X	X	X	X	X		
A&A Windows																										
Install Mock-Up SF Windows	JDB	Not Required		TBD	TBD																					
Installation SF South Elevation B Building	JDB	Not Required		01/18/21	TBD																					
Installation SF North Elevation B Building	JDB	Not Required		01/26/21	TBD																					
Installation SF East Media Center and South C Building (pre-k, media center, admin)	JDB	Not Required		02/03/21	TBD																					
Installation SF North and East Elevation C Building (prek and admin)	JDB	Not Required		02/11/21	TBD																					
Installation CW North & East Elevation Building C	JDB	Not Required		TBD																						





Manchester Memorial Elementary School

						MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
						12/28	12/29	12/30	12/31	1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17
Milestone/Activity Description	Responsibility	First Delivery	Initial Inspection	Start Date	End Date																					
Installation CW West Elevation Building B	JDB	Not Required		TBD																						
Installation CW North Elevation B Building	JDB	Not Required		TBD																						
WTR																										
Snow removal	JDB	Not Required		TBD	TBD																					
Temp enclosures	JDB	Not Required		12/20/20	01/08/21	x	x	x	x	x			x	x	x	x	x									
Building Tight	JDB	Not Required		01/08/21	01/08/21												x									
Quality Control																										
Pre-Installation SOEP	JTC/WTR	Not Required	Completed	TBD	TBD																					
First Delivery Inspections	WTR	Scheduled		07/15/20	06/30/21	x	x	x	x	x			x	x	x	x	x			x	x	x	x	x	x	
MEP Installation		Not Required		TBD	TBD																					
Mock-Ups																										
Window Flashing	WTR	Scheduled		TBD	TBD																					
Sub-Contractor Meeting																										
Subcontractor Meetings - Every Wednesday AM @ 9:00AM		Not Required																								
Inspections & Commissioning																										
Security	KN	Not Required		TBD	TBD																					
PA system	KN/AC	Not Required		12/28/20	12/31/20	x	x	x	x																	
Final welding inspection	JDB	Not Required		TBD																						
Mock up window review	JDB	Not Required		TBD	TBD																					
Final Commissioning	WTR	Scheduled		12/28/20	12/31/20	x	x	x	x																	
Safety																										
Orientations - On Going as Needed with New Hires	TP	Not Required																								
COVID-19 pre entry & Spray		Not Required		Daily																						
CORI Check- On Going as Needed with New Hires	TP	Not Required																								
ConstructSecure Safety Inspections (min 1 per Week)	TP/JDB/BA	Not Required																								
School																										
MLK Day		Not Required		01/18/21	01/18/21																					
February Vacation		Not Required		2/15/2020	2/19/2020																					
April Vacation		Not Required		4/19/2020	4/24/2020																					
Last day school		Not Required		6/17/2020	6/24/2020																					
Blackout period of Building		Not Required		7:30:00 AM	8:30:00 AM																					
Blackout period of Building		Not Required		2:30:00 PM	3:30:00 PM																					
MEP Subcontractors in Phase I Building		Not Required		12/24/2020	12/31/2020	x	x	x	x																	

DECEMBER SCHEDULE

Project Controls SCHEDULE

Activity ID	Activity Name	Orig Dur (Days)	Rem Dur	Act % Comp	Start	Finish	2018			2019				2020				2021				2022				2023		
							Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Manchester Memorial Elementary School		998	265		08/Feb/18 A	20/Jan/22																						
Design and Preconstruction		611	0		08/Feb/18 A	07/Jul/20 A																						
Submittal Packages		337	0		02/Apr/19 A	02/Jul/20 A																						
Phase 1 - New Classroom Wing Area A		397	3		01/Mar/19 A	05/Jan/21																						
Phase 2 - New Building Areas B&C		548	152		10/Jun/19 A	06/Aug/21																						
Phase 2 Submittals		490	94		10/Jun/19 A	14/May/21																						
042613 - Phase 2 CMU (Stair & Elevator Shaft)		135	0		03/Sep/19 A	21/Sep/20 A																						
SM04 1090	Prepare and Submit Package CMU	20	0	100%	03/Sep/19 A	30/Sep/19 A																						
SM04 1100	Review and Approve Package CMU	20	0	100%	30/Sep/19 A	31/Jan/20 A																						
SM04 1110	Fabricate and Deliver CMU and Reinforcement	30	0	100%	31/Jan/20 A	21/Sep/20 A																						
051200 - Phase 2 (Area B&C) Anchor Bolts		298	0		28/Oct/19 A	10/Aug/20 A																						
SM 5 1420	Prepare and Submit Package Anchor Bolts	9	0	100%	28/Oct/19 A	31/Mar/20 A																						
SM 5 1430	Review and Approve Package Anchor Bolts	15	0	100%	31/Mar/20 A	20/Apr/20 A																						
SM 5 1440	Fabricate and Deliver Structural Anchor Bolts	78	0	100%	21/Apr/20 A	10/Aug/20 A																						
033000 Phase 2 - Cast-In-Place Concrete		45	0		01/Jan/20 A	30/Jul/20 A																						
SM 3 1030	Prepare and Submit Concrete Package	15	0	100%	01/Jan/20 A	09/Jan/20 A																						
SM 3 1040	Review and Approve Concrete Package	15	0	100%	10/Jan/20 A	31/Jan/20 A																						
SM 3 1050	Fabricate & Deliver Concrete Phase 2	15	0	100%	31/Jan/20 A	30/Jul/20 A																						
051200 - Phase 2 (Area B&C) Structural Steel Framing		98	0		10/Jun/19 A	12/Oct/20 A																						
SM 5 1450	Prepare and Submit Package Structural Steel	30	0	100%	10/Jun/19 A	01/Aug/19 A																						
SM 5 1460	Review and Approve Package Structural Steel	24	0	100%	01/Aug/19 A	30/Sep/19 A																						
SM 5 1470	Fabricate and Deliver Structural Steel Framing	35	0	100%	09/Sep/19 A	12/Oct/20 A																						
053100 - Phase 2 (Area B&C) Steel Decking		110	0		13/Jun/19 A	12/Oct/20 A																						
SM 5 1480	Prepare and Submit Package Steel Decking	20	0	100%	13/Jun/19 A	09/Aug/19 A																						
SM 5 1490	Review and Approve Package Steel Decking	20	0	100%	12/Aug/19 A	09/Sep/19 A																						
SM 5 1500	Fabricate and Deliver Steel Decking	49	0	100%	10/Sep/19 A	12/Oct/20 A																						
055000 - Phase 2 (Area B&C) Metal Fabrications		265	20		22/Oct/19 A	28/Jan/21																						
SM 5 1510	Prepare and Submit Package Metal Fabs	20	0	100%	22/Oct/19 A	28/Jul/20 A																						
SM 5 1520	Review and Approve Package Metal Fabs	20	0	100%	29/Jul/20 A	30/Sep/20 A																						
SM 5 1530	Fabricate and Deliver Metal Fabrications	25	20	20%	30/Sep/20 A	28/Jan/21																						
055113 - Phase 2 Metal Pan Stairs		244	0		14/Oct/19 A	07/Oct/20 A																						
SM 5 1370	Prepare and Submit Package Metal Stairs & Railings	20	0	100%	14/Oct/19 A	14/Jul/20 A																						
SM 5 1400	Field Meassure Floor Heights	3	0	100%	30/Jun/20 A	02/Jul/20 A																						
SM 5 1410	Fabricate Field Measured Items and Deliver Metal Stairs & Railing	10	0	100%	06/Jul/20 A	07/Oct/20 A																						
SM 5 1380	Review and Approve Package Metal Stairs & Railings	25	0	100%	31/Jul/20 A	04/Sep/20 A																						
SM 5 1390	Fabricate Stock Sized Items and Deliver	15	0	100%	08/Sep/20 A	06/Oct/20 A																						
061533 - Wood Patio Decking		146	41		31/Jul/20 A	01/Mar/21																						
SM 6 1220	Prepare and Submit Package Wood Patio Decking	43	0	100%	31/Jul/20 A	30/Nov/20 A																						
SM 6 1230	Review and Approve Package Wood Patio Decking	40	20	50%	30/Nov/20 A	28/Jan/21																						
SM 6 1240	Fabricate and Deliver Wood Patio Decking	21	21	0%	29/Jan/21	01/Mar/21																						
061850 - Glue Laminated Timber Beams Phase 2		70	48		30/Nov/20 A	10/Mar/21																						
SM 6 1030	Prepare and Submit Package Glue Laminated Timber Beams	15	0	100%	30/Nov/20 A	18/Dec/20 A																						
SM 6 1100	Review and Approve Package Glue Laminated Timber Beams	20	18	10%	21/Dec/20 A	26/Jan/21																						
SM 6 1120	Fabricate and Deliver Glue Laminated Timber Beams	30	30	0%	27/Jan/21	10/Mar/21																						
064023 - Phase 2 Interior Woodwork		363	52		09/Oct/19 A	16/Mar/21																						
SM 6 1280	Prepare and Submit Package Arch Woodwork	15	0	100%	09/Oct/19 A	20/Aug/20 A																						
SM 6 1290	Review and Approve Package Arch Woodwork	15	0	100%	21/Aug/20 A	10/Sep/20 A																						
SM 6 1340	Release Materials for Delivery to Shop	20	5	75%	11/Sep/20 A	07/Jan/21																						
SM 6 1310	Field Measure 1st Floor Arch Woodwork	3	3	0%	08/Jan/21	12/Jan/21																						
SM 6 1330	Fabricate and Deliver Arch Woodwork 1st Floor	20	20	0%	13/Jan/21	09/Feb/21																						
SM 6 1300	Field Measure 2nd Floor Arch Woodwork	3	3	0%	11/Feb/21	16/Feb/21																						
SM 6 1320	Fabricate and Deliver Arch Woodwork 2nd Floor	20	20	0%	17/Feb/21	16/Mar/21																						







DECEMBER SCHEDULE

Project Controls SCHEDULE

Activity ID	Activity Name	Orig Dur (Days)	Rem Dur	Act % Comp	Start	Finish	2018			2019				2020				2021				2022				2023			4	
							Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3		
066400 - Plastic Paneling		148	64		31/Aug/20 A	01/Apr/21																								
SM 6 1250	Prepare and Submit Package FRP Paneling	20	0	100%	31/Aug/20 A	28/Sep/20 A	■ Prepare and Submit Package FRP Paneling																							
SM 6 1260	Review and Approve Package FRP Paneling	20	0	100%	29/Sep/20 A	23/Oct/20 A	■ Review and Approve Package FRP Paneling																							
SM 6 1270	Fabricate and Deliver FRP Paneling Phase 2	110	64	41.82%	26/Oct/20 A	01/Apr/21	■ Fabricate and Deliver FRP Paneling Phase 2																							
074213- Formed PVC Roof Screens		75	0		17/Mar/20 A	31/Jul/20 A																								
SM 7 1100	Prepare and Submit Package PVC Roof Screens	10	0	100%	17/Mar/20 A	30/Mar/20 A	■ Prepare and Submit Package PVC Roof Screens																							
SM 7 1310	Review and Approve Package PVC Roof Screens	15	0	100%	31/Mar/20 A	20/Apr/20 A	■ Review and Approve Package PVC Roof Screens																							
SM 7 1490	Fabricate and Deliver PVC Roof Screens Phase 2	50	0	100%	21/Apr/20 A	31/Jul/20 A	■ Fabricate and Deliver PVC Roof Screens Phase 2																							
079500 - Expansion Control		83	0		31/Jul/20 A	25/Nov/20 A																								
SM 7 1710	Prepare and Submit Package Expansion Control	10	0	100%	31/Jul/20 A	03/Nov/20 A	■ Prepare and Submit Package Expansion Control																							
SM 7 1720	Review and Approve Package Expansion Control	15	0	100%	04/Nov/20 A	24/Nov/20 A	■ Review and Approve Package Expansion Control																							
SM 7 1730	Fabricate and Deliver Expansion Control Phase 2	1	0	100%	25/Nov/20 A	25/Nov/20 A	■ Fabricate and Deliver Expansion Control Phase 2																							
083323 - Coiling Doors		189	84		31/Jul/20 A	30/Apr/21																								
SM8 1000	Prepare and Submit Package Overhead Coiling Doors	20	0	100%	31/Jul/20 A	21/Sep/20 A	■ Prepare and Submit Package Overhead Coiling Doors																							
SM8 1010	Review and Approve Package Overhead Coiling Doors	15	0	100%	22/Sep/20 A	13/Oct/20 A	■ Review and Approve Package Overhead Coiling Doors																							
SM8 1020	Fabricate and Deliver Coiling Doors Phase 2	139	84	39.57%	14/Oct/20 A	30/Apr/21	■ Fabricate and Deliver Coiling Doors Phase 2																							
084113 Phase 2 Storefront Windows		114	40		03/Sep/19 A	26/Feb/21																								
SM 8 1390	Prepare and Submit Package Storefront Windows	25	0	100%	03/Sep/19 A	18/Sep/19 A	■ Prepare and Submit Package Storefront Windows																							
SM 8 1400	Review and Approve Package Storefront Windows	25	0	100%	19/Sep/19 A	02/Oct/19 A	■ Review and Approve Package Storefront Windows																							
SM 8 1410	Fabricate and Deliver Storefront Windows Frames	80	40	50%	21/Oct/19 A	26/Feb/21	■ Fabricate and Deliver Storefront Windows Frames																							
084413 Phase 2 Glazed Aluminum Curtain Walls		379	50		15/Aug/19 A	12/Mar/21																								
SM 8 1420	Prepare and Submit Aluminum Curtain Wall Package	25	0	100%	15/Aug/19 A	25/Sep/19 A	■ Prepare and Submit Aluminum Curtain Wall Package																							
SM 8 1430	Review and Approve Curtain Wall Package	20	0	100%	08/Oct/19 A	07/Jan/20 A	■ Review and Approve Curtain Wall Package																							
SM 8 1440	Fabricate and Deliver Curtain Wall	291	50	50%	08/Jan/20 A	12/Mar/21	■ Fabricate and Deliver Curtain Wall																							
084113 Phase 2 Interior Storefront		145	40		31/Jul/20 A	26/Feb/21																								
SM 8 1360	Prepare and Submit Package Interior Storefronts	20	0	100%	31/Jul/20 A	27/Aug/20 A	■ Prepare and Submit Package Interior Storefronts																							
SM 8 1370	Review and Approve Package Interior Storefronts	25	0	100%	28/Aug/20 A	18/Dec/20 A	■ Review and Approve Package Interior Storefronts																							
SM 8 1380	Fabricate and Deliver Interior Storefront Frames Phase 2	47	40	14.89%	21/Dec/20 A	26/Feb/21	■ Fabricate and Deliver Interior Storefront Frames Phase 2																							
088113 Decorative Glass Glazing		131	81		22/Oct/19 A	27/Apr/21																								
SM8 1060	Prepare and Submit Package Interior Glazing	25	0	100%	22/Oct/19 A	06/Feb/20 A	■ Prepare and Submit Package Interior Glazing																							
SM8 1070	Review and Approve Package Interior Glazing	15	0	100%	03/Feb/20 A	24/Feb/20 A	■ Review and Approve Package Interior Glazing																							
SM8 1080	Fabricate and Deliver Decorative Glazing	45	81	0%	25/Feb/20 A	27/Apr/21	■ Fabricate and Deliver Decorative Glazing																							
088700 Window Film		121	64		22/Oct/19 A	01/Apr/21																								
SM 8 1050	Prepare and Submit Package Exterior Glazing	25	0	100%	22/Oct/19 A	05/Dec/19 A	■ Prepare and Submit Package Exterior Glazing																							
SM 8 1150	Review and Approve Package Exterior Glazing	25	0	100%	06/Dec/19 A	07/Feb/20 A	■ Review and Approve Package Exterior Glazing																							
SM 8 1260	Fabricate and Deliver Window Film	45	64	0%	10/Feb/20 A	01/Apr/21	■ Fabricate and Deliver Window Film																							
096466 Wood Athletic Flooring		320	66		31/Dec/19 A	05/Apr/21																								
SM9 1060	Prepare and Submit Wood Athletic Floor Package	20	0	100%	31/Dec/19 A	28/Jan/20 A	■ Prepare and Submit Wood Athletic Floor Package																							
SM9 1070	Review and Approve Wood Athletic Floor Package	25	0	100%	28/Jan/20 A	20/Oct/20 A	■ Review and Approve Wood Athletic Floor Package																							
SM9 1080	Fabricate and Deliver Wood Athletic Floor Phase 2	115	66	42.61%	21/Oct/20 A	05/Apr/21	■ Fabricate and Deliver Wood Athletic Floor Phase 2																							
096566 Resilient Athletic Flooring		362	60		22/Oct/19 A	26/Mar/21																								
SM9 1120	Prepare and Submit Resilient Athletic Floor Package	25	0	100%	22/Oct/19 A	20/Oct/20 A	■ Prepare and Submit Resilient Athletic Floor Package																							
SM9 1130	Review and Approve Resilient Athletic Package	25	0	100%	21/Oct/20 A	29/Oct/20 A	■ Review and Approve Resilient Athletic Package																							
SM9 1140	Fabricate and Deliver Resilient Athletic Phase 2	119	60	49.58%	30/Oct/20 A	26/Mar/21	■ Fabricate and Deliver Resilient Athletic Phase 2																							
097200 Wall Coverings		313	93		19/Feb/20 A	13/May/21																								
SM 9 1450	Prepare and Submit Package Wall Coverings	1	0	100%	19/Feb/20 A	19/Feb/20 A	■ Prepare and Submit Package Wall Coverings																							
SM 9 1460	Review and Approve Package Wall Coverings	15	0	100%	20/Feb/20 A	31/Dec/20	■ Review and Approve Package Wall Coverings																							
SM 9 1470	Fabricate and Deliver Wall Coverings Phase 2	93	93	0%	31/Dec/20	13/May/21	■ Fabricate and Deliver Wall Coverings Phase 2																							
098433 Sound Absorbing Wall Units		117	54		30/Sep/20 A	18/Mar/21																								
SM9 1090	Prepare and Submit Package Sound Absorbing Panels	15	0	100%	30/Sep/20 A	20/Oct/20 A	■ Prepare and Submit Package Sound Absorbing Panels																							
SM9 1100	Review and Approve Package Sound Absorbing Panels	15	8	50%	21/Oct/20 A	12/Jan/21	■ Review and Approve Package Sound Absorbing Panels																							
SM9 1110	Fabricate and Deliver Sound Absorbing Panels Phase 2	47	47	0%	12/Jan/21	18/Mar/21	■ Fabricate and Deliver Sound Absorbing Panels Phase 2																							



## Project Controls SCHEDULE

<b>Start Date:</b> 08/Feb/18 <b>Finish Date:</b> 20/Jan/22 <b>Data Date:</b> 31/Dec/20 <b>Print Date:</b> 06/Jan/21 <b>Layout:</b> Ownerm	 Summary  Actual Work  Remaining Work  Remaining Level of Effort  Critical Remaining Work  Actual Milestone  Milestone  Critical Milestone	<b>Manchester Memorial Elementary School</b>  Page 3 of 12	<u>Note:</u> The projections are based upon activity earning type and performance to-date on in-progress activities. Every precaution has been taken to ensure this report is accurate and up-to-date. No liability is assumed for errors or omissions. Rounding errors may exist.	<b>W.T. Rich Company, Inc.</b>
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**Note:** The projections are based upon activity earning type and performance to-date on in-progress activities. Every precaution has been taken to ensure this report is accurate and up-to-date. No liability is assumed for errors or omissions. Rounding errors may exist.

**W.T. Rich Company, Inc.**

DECEMBER SCHEDULE

Project Controls SCHEDULE

Activity ID	Activity Name	Orig Dur (Days)	Rem Dur	Act % Comp	Start	Finish	2018			2019				2020				2021				2022				2023			4
							Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
SM11 1230	Fabricate and Deliver Play Equipment and Structures	126	90	28.57%	13/Oct/20 A	10/May/21	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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Start Date: 08/Feb/18  
Finish Date: 20/Jan/22  
Data Date: 31/Dec/20  
Print Date: 06/Jan/21  
Layout: Ownerm

Summary

Actual Work

Remaining Work

Remaining Level of Effort

Actual Milestone

Milestone

Critical Milestone

Critical Remaining Work

Manchester Memorial Elementary School

Note: The projections are based upon activity earning type and performance to-date on in-progress activities. Every precaution has been taken to ensure this report is accurate and up-to-date. No liability is assumed for errors or omissions. Rounding errors may exist.

W.T. Rich Company, Inc.

DECEMBER SCHEDULE

Project Controls SCHEDULE

Activity ID	Activity Name	Orig Dur (Days)	Rem Dur	Act % Comp	Start	Finish	2018			2019				2020				2021				2022				2023			4
							Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
321713 Pavement Marking	SM 32 550	Review and Approve Package - Granite Curbs	15	0	100%	16/Mar/20 A																							
	SM 32 560	Fabricate & Deliver Granite Curbs	10	84	0%	22/Sep/20 A																							
			25	94		30/Nov/20 A																							
	SM 32 450	Prepare and Submit Package - Pavement Markings	0	0	100%	30/Nov/20 A																							
	SM 32 460	Review and Approve Package - Pavement Markings	15	0	100%	30/Nov/20 A																							
	SM 32 470	Fabricate & Deliver Pavement Markings	10	94	0%	21/Dec/20 A																							
			116	94		30/Nov/20 A																							
	SM 32 390	Prepare and Submit Package - Painted Pavement Markings	0	0	100%	30/Nov/20 A																							
	SM 32 400	Review and Approve Package - Painted Pavement Markings	15	0	100%	30/Nov/20 A																							
	SM 32 410	Fabricate & Deliver Painted Pavement Markings	94	94	0%	31/Dec/20																							
			25	94		30/Nov/20 A																							
	SM 32 360	Prepare and Submit Package - Tactile Warning Surfacing	0	0	100%	30/Nov/20 A																							
	SM 32 370	Review and Approve Package - Tactile Warning Surfacing	15	0	100%	30/Nov/20 A																							
	SM 32 380	Fabricate & Deliver Tactile Warning Surfacing	10	94	0%	21/Dec/20 A																							
			35	35		31/Dec/20																							
	SM 232130	Prepare and Submit Package Playground Protective Surfacing	0	0	0%	31/Dec/20																							
	SM 232140	Review and Approve Package Playground Protective Surfacing	35	35	0%	31/Dec/20																							
			30	0		30/Nov/20 A																							
	SM 232150	Prepare and Submit Package Court Surfacing	0	0	100%	30/Nov/20 A																							
	SM 232160	Review and Approve Package Court Surfacing	30	0	100%	30/Nov/20 A																							
			106	41		31/Aug/20 A																							
	SM 32 110	Prepare and Submit Package Fence	20	0	100%	31/Aug/20 A																							
	SM 32 210	Review and Approve Package Fence	15	0	100%	29/Sep/20 A																							
	SM 32 290	Fabricate & Deliver Fencing	30	41	0%	18/Dec/20 A																							
			90	68		30/Nov/20 A																							
	SM 32 480	Prepare and Submit Package Fence	10	0	100%	30/Nov/20 A																							
	SM 32 490	Review and Approve Package Fence	10	0	100%	14/Dec/20 A																							
	SM 32 500	Fabricate & Deliver Fencing	65	68	0%	30/Dec/20 A																							
			144	60		31/Aug/20 A																							
	SM 232110	Prepare and Submit Package Turfs & Grasses	20	0	100%	31/Aug/20 A																							
	SM 232120	Review and Approve Package Turfs & Grasses	125	60	52%	29/Sep/20 A																							
			71	71		31/Dec/20																							
SM 232170	Prepare and Submit Package Plants	0	0	0%	31/Dec/20																								
SM 232180	Review and Approve Package Plants	25	25	0%	31/Dec/20																								
SM 232190	Select and Deliver Plantings	46	46	0%	05/Feb/21																								
		23	0		01/Jun/20 A																								
2DEM 230	Mobilize Phase 2 - End of School 2020/Central & SE Wings Vaca	0	0	100%	01/Jun/20 A																								
2DEM 240	Cut,Cap, Make-Safe/Selective Demolition	1	0	100%	01/Jun/20 A																								
2DEM 250	Set Up Containment	2	0	100%	01/Jun/20 A																								
2DEM 210	Conduct Abatement/Air Clearance/Break down Containment	5	0	100%	03/Jun/20 A																								
2DEM 220	Demolish and Remove Building & Foundation - Backfill. Rough Gi	15	0	100%	10/Jun/20 A																								
2DEM 260	Install temporary Structural Supports	2	0	100%	29/Jun/20 A																								
		215	131		31/Aug/20 A																								
		59	0		31/Aug/20 A																								
SSB120	Ready for Foundations	0	0	100%	31/Aug/20 A																								
SSB130	Excavate for Foundations	30	0	100%	31/Aug/20 A																								
SSB140	Form & Place Footings - Tie into A bldg South	10	0	100%	03/Sep/20 A																								
SSB160	Form & Place Foundation Walls, Piers, Pillasters A South	15	0	100%	15/Sep/20 A																								
SSB190	Form & Place Elevator Pit	5	0	100%	15/Sep/20 A																								
SSB150	Backfill Foundations	20	0	100%	15/Sep/20 A																								
SSB170	Form and Place Footings East & South	10	0	100%	17/Sep/20 A																								
SSB230	Foundations ready for CMU & Steel	0	0	100%	22/Sep/20 A																								

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- Summary

Actual Work

Remaining Work

Remaining Level of Effort
- Critical Remaining Work

Actual Milestone

Milestone

Critical Milestone

Manchester Memorial Elementary School

Note: The projections are based upon activity earning type and performance to-date on in-progress activities. Every precaution has been taken to ensure this report is accurate and up-to-date. No liability is assumed for errors or omissions. Rounding errors may exist.

W.T. Rich Company, Inc.



DECEMBER SCHEDULE

Project Controls SCHEDULE






Activity ID	Activity Name	Orig Dur (Days)	Rem Dur	Act % Comp	Start	Finish	2018			2019				2020				2021				2022				2023			4
							Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
1	SSB200	Form & Place Foundation Walls, Piers, Pillasters E&S	18	0	100%	23/Sep/20 A	28/Sep/20 A	<div><div></div><div>Form &amp; Place Foundation Walls, Piers, Pillasters E&amp;S</div></div>																					
	SSB180	Form and Place ISO Footings	13	0	100%	25/Sep/20 A	30/Sep/20 A	<div><div></div><div>Form and Place ISO Footings</div></div>																					
	SSB240	Erect Structural Steel B	12	0	100%	06/Oct/20 A	21/Oct/20 A	<div><div></div><div>Erect Structural Steel B</div></div>																					
	SSB250	Install Steel Decking & Detailing B	10	0	100%	21/Oct/20 A	20/Nov/20 A	<div><div></div><div>Install Steel Decking &amp; Detailing B</div></div>																					
	SSB260	Structural Steel Complete B	0	0	100%		20/Nov/20 A	<div><div></div><div>Structural Steel Complete B</div></div>																					
	Slabs B		119	30		11/Sep/20 A	03/Mar/21	<div><div></div><div></div></div>																					
	SSB300	Install Underslab MEPs & Inspect	15	0	100%	11/Sep/20 A	30/Sep/20 A	<div><div></div><div>Install Underslab MEPs &amp; Inspect</div></div>																					
	SSB310	Prep & Place Slab on Grade B	8	0	100%	20/Nov/20 A	04/Dec/20 A	<div><div></div><div>Prep &amp; Place Slab on Grade B</div></div>																					
	SSB320	Install Stairway #2	30	30	0%	20/Jan/21	03/Mar/21	<div><div></div><div>Install Stairway #2</div></div>																					
	Stairs		99	25		30/Sep/20 A	03/Mar/21	<div><div></div><div></div></div>																					
	STA110	Install CMU Shaft Stair #3	10	0	100%	30/Sep/20 A	08/Oct/20 A	<div><div></div><div>Install CMU Shaft Stair #3</div></div>																					
	STA120	Install Metal Pan Stair #3	8	0	100%	09/Oct/20 A	20/Oct/20 A	<div><div></div><div>Install Metal Pan Stair #3</div></div>																					
	STA150	Erect Hub Stair #2	5	5	0%	27/Jan/21	02/Feb/21	<div><div></div><div>Erect Hub Stair #2</div></div>																					
	STA160	Erect LGM Framing Stair #2	5	5	0%	03/Feb/21	09/Feb/21	<div><div></div><div>Erect LGM Framing Stair #2</div></div>																					
	STA130	Place Concrete & Cure Stair #2 & 3	5	5	0%	10/Feb/21	17/Feb/21	<div><div></div><div>Place Concrete &amp; Cure Stair #2 &amp; 3</div></div>																					
	STA170	Prep & Place Lightweight Slab Stair #2	5	5	0%	10/Feb/21	17/Feb/21	<div><div></div><div>Prep &amp; Place Lightweight Slab Stair #2</div></div>																					
	STA140	Install Handrails at Stairs	10	10	0%	18/Feb/21	03/Mar/21	<div><div></div><div>Install Handrails at Stairs</div></div>																					
	Roofing & Roof Mounted Items B		166	131		16/Nov/20 A	08/Jul/21	<div><div></div><div></div></div>																					
	ROOB100	Roof Blocking/Roof Drains/Mechanical Curbs	10	0	100%	16/Nov/20 A	24/Dec/20 A	<div><div></div><div>Roof Blocking/Roof Drains/Mechanical Curbs</div></div>																					
	ROOB110	Install Roofing System	25	6	76%	17/Nov/20 A	08/Jan/21	<div><div></div><div>Install Roofing System</div></div>																					
	ROOB120	Install HVAC Roof Top Units	10	17	0%	31/Dec/20 A	25/Jan/21	<div><div></div><div>Install HVAC Roof Top Units</div></div>																					
	ROOB130	Install Kitchen / Roof Exhaust Fans	10	17	0%	31/Dec/20 A	25/Jan/21	<div><div></div><div>Install Kitchen / Roof Exhaust Fans</div></div>																					
	ROOB150	Install Edge Metal & Sheet Metal Flashing	10	10	0%	10/Jun/21	23/Jun/21	<div><div></div><div>Install Edge Metal &amp; Sheet Metal Flashing</div></div>																					
	ROOB160	Install Roof Screens	10	10	0%	24/Jun/21	08/Jul/21	<div><div></div><div>Install Roof Screens</div></div>																					
	Envelope B		133	111		23/Nov/20 A	09/Jun/21	<div><div></div><div></div></div>																					
	EXTB100	Install Exterior Framing & Sheathing	20	0	100%	23/Nov/20 A	24/Dec/20 A	<div><div></div><div>Install Exterior Framing &amp; Sheathing</div></div>																					
	EXTB110	Install Temporary Weather Protection (for rough in)	10	0	100%	30/Nov/20 A	24/Dec/20 A	<div><div></div><div>Install Temporary Weather Protection (for rough in)</div></div>																					
	EXTB180	Weather delays/Steel Inspection B	10	2	80%	17/Dec/20 A	04/Jan/21	<div><div></div><div>Weather delays/Steel Inspection B</div></div>																					
	EXTB120	Install Air Vapor Banier	15	15	0%	04/Jan/21	22/Jan/21	<div><div></div><div>Install Air Vapor Barrier</div></div>																					
	EXTB140	Install Windows, Curtainwalls	30	30	0%	18/Jan/21	01/Mar/21	<div><div></div><div>Install Windows, Curtainwalls</div></div>																					
	EXTB160	Install Soffit Z Girts, Insulation	20	20	0%	25/Jan/21	22/Feb/21	<div><div></div><div>Install Soffit Z Girts, Insulation</div></div>																					
	EXTB150	Install Storefronts	10	10	0%	02/Mar/21	15/Mar/21	<div><div></div><div>Install Storefronts</div></div>																					
	EXTB130	Install Masonry Finishes	50	50	0%	16/Mar/21	25/May/21	<div><div></div><div>Install Masonry Finishes</div></div>																					
	EXTB170	Install Soffit Panels	10	10	0%	26/May/21	09/Jun/21	<div><div></div><div>Install Soffit Panels</div></div>																					
	Area C Structure		255	136		13/Jul/20 A	15/Jul/21	<div><div></div><div></div></div>																					
	Superstructure C		94	0		13/Jul/20 A	20/Nov/20 A	<div><div></div><div></div></div>																					
	SSC100	Grade Site for Ground Improvements	5	0	100%	13/Jul/20 A	17/Jul/20 A	<div><div></div><div>Grade Site for Ground Improvements</div></div>																					
	SSC110	Install Ground Improvements	10	0	100%	20/Jul/20 A	31/Jul/20 A	<div><div></div><div>Install Ground Improvements</div></div>																					
	SSC120	Ready for Foundations	0	0	100%	31/Jul/20 A		<div><div></div><div>Ready for Foundations</div></div>																					
	SSC130	Excavate for Foundations	30	0	100%	03/Aug/20 A	14/Sep/20 A	<div><div></div><div>Excavate for Foundations</div></div>																					
	SSC140	Form & Place Footings - Tie into A bldg North	10	0	100%	10/Aug/20 A	21/Aug/20 A	<div><div></div><div>Form &amp; Place Footings - Tie into A bldg North</div></div>																					
	SSC160	Backfill Foundations	30	0	100%	13/Aug/20 A	24/Sep/20 A	<div><div></div><div>Backfill Foundations</div></div>																					
	SSC150	Form & Place Foundation Walls, Piers, Pillasters A North	15	0	100%	18/Aug/20 A	08/Sep/20 A	<div><div></div><div>Form &amp; Place Foundation Walls, Piers, Pillasters A North</div></div>																					
	SSC260	Form and Place Footings East & South	10	0	100%	24/Aug/20 A	04/Sep/20 A	<div><div></div><div>Form and Place Footings East &amp; South</div></div>																					
SSC250	Form and Place ISO Footings	13	0	100%	25/Aug/20 A	11/Sep/20 A	<div><div></div><div>Form and Place ISO Footings</div></div>																						
SSC170	Form & Place Elevator Pit	5	0	100%	01/Sep/20 A	08/Sep/20 A	<div><div></div><div>Form &amp; Place Elevator Pit</div></div>																						
SSC270	Form & Place Foundation Walls, Piers, Pillasters S&E	15	0	100%	01/Sep/20 A	22/Sep/20 A	<div><div></div><div>Form &amp; Place Foundation Walls, Piers, Pillasters S&amp;E</div></div>																						
SSC210	Foundations ready for CMU & Steel	0	0	100%	25/Sep/20 A		<div><div></div><div>Foundations ready for CMU &amp; Steel</div></div>																						
SSC230	Install CMU Stair Shaft #3	15	0	100%	28/Sep/20 A	07/Oct/20 A	<div><div></div><div>Install CMU Stair Shaft #3</div></div>																						
SSC200	Erect Structural Steel	10	0	100%	13/Oct/20 A	26/Oct/20 A	<div><div></div><div>Erect Structural Steel</div></div>																						
SSC220	Install Steel Decking & Detailing	10	0	100%	20/Oct/20 A	20/Nov/20 A	<div><div></div><div>Install Steel Decking &amp; Detailing</div></div>																						
SSC240	Structural Steel Complete C	0	0	100%		20/Nov/20 A	<div><div></div><div>Structural Steel Complete C</div></div>																						

**DECEMBER SCHEDULE**

## Project Controls SCHEDULE

[illegible]

<b>Start Date:</b>	08/Feb/18
<b>Finish Date:</b>	20/Jan/22
<b>Data Date:</b>	31/Dec/20
<b>Print Date:</b>	06/Jan/21
<b>Layout:</b>	Ownernm

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

**Manchester Memorial Elementary School**

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**Note:** The projections are based upon activity earning type and performance to-date on in-progress activities. Every precaution has been taken to ensure this report is accurate and up-to-date. No liability is assumed for errors or omissions. Rounding errors may exist.

**W.T. Rich Company, Inc.**



DECEMBER SCHEDULE

Project Controls SCHEDULE

Activity ID	Activity Name	Orig Dur (Days)	Rem Dur	Act % Comp	Start	Finish	2018			2019				2020				2021				2022				2023			4		
							Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3			
2FG 190	Install MEP & Fire Alarm Finishes	15	15	0%	21/Apr/21	11/May/21													<div><div></div> Install MEP &amp; Fire Alarm Finishes</div>												
2FG 210	Install Millwork & Casework	15	15	0%	21/Apr/21	11/May/21													<div><div></div> Install Millwork &amp; Casework</div>												
2FG 240	Install Division 10,11,12	10	10	0%	28/Apr/21	11/May/21													<div><div></div> Install Division 10,11,12</div>												
2FG 310	Install Gymnasium Equipment & Telescoping Bleachers	8	8	0%	28/Apr/21	07/May/21													<div><div></div> Install Gymnasium Equipment &amp; Telescoping Bleachers</div>												
2FG 200	Install Bathroom Plumbing Fixtures	5	5	0%	03/May/21	07/May/21													<div><div></div> Install Bathroom Plumbing Fixtures</div>												
2FG 220	Prep & Install Resilient Flooring	12	12	0%	03/May/21	18/May/21													<div><div></div> Prep &amp; Install Resilient Flooring</div>												
2FG 300	Install Stage Rigging	5	5	0%	03/May/21	07/May/21													<div><div></div> Install Stage Rigging</div>												
2FG 290	Install Gymnasium Flooring	10	10	0%	10/May/21	21/May/21													<div><div></div> Install Gymnasium Flooring</div>												
2FG 280	Install Stage Flooring	5	5	0%	24/May/21	28/May/21													<div><div></div> Install Stage Flooring</div>												
2FG 230	Complete Finishes Gym/Caf/Stage	0	0	0%		28/May/21													<div><div></div> Complete Finishes Gym/Caf/Stage</div>												
Kitchen Finishes		62	62		09/Mar/21	04/Jun/21																									
2FK 100	Start Finishes Kitchen	0	0	0%	09/Mar/21														<div><div></div> Start Finishes Kitchen</div>												
2FK 110	Hang Drywall/Tape & Finish	5	5	0%	16/Mar/21	22/Mar/21													<div><div></div> Hang Drywall/Tape &amp; Finish</div>												
2FK 120	Paint - Prime & First Coat	5	5	0%	23/Mar/21	29/Mar/21													<div><div></div> Paint - Prime &amp; First Coat</div>												
2FK 130	Install Ceiling Grids and Frames	5	5	0%	30/Mar/21	05/Apr/21													<div><div></div> Install Ceiling Grids and Frames</div>												
2FK 250	Install Sprinkler heads and drops	5	5	0%	30/Mar/21	05/Apr/21													<div><div></div> Install Sprinkler heads and drops</div>												
2FK 140	Install Light Fixtures	8	8	0%	06/Apr/21	15/Apr/21													<div><div></div> Install Light Fixtures</div>												
2FK 150	Install Acoustical Ceiling Tile	5	5	0%	06/Apr/21	12/Apr/21													<div><div></div> Install Acoustical Ceiling Tile</div>												
2FK 160	Install HVAC Radiant Panels & RGDs	5	5	0%	06/Apr/21	12/Apr/21													<div><div></div> Install HVAC Radiant Panels &amp; RGDs</div>												
2FK 170	Install Wall Tile	15	15	0%	06/Apr/21	27/Apr/21													<div><div></div> Install Wall Tile</div>												
2FK 370	Install Doors, HW, Interior SF & Interior Glazing	3	3	0%	20/Apr/21	22/Apr/21													<div><div></div> Install Doors, HW, Interior SF &amp; Interior Glazing</div>												
2FK 180	Paint Finish Coat	5	5	0%	23/Apr/21	29/Apr/21													<div><div></div> Paint Finish Coat</div>												
2FK 220	Prep & Install Flooring	12	12	0%	28/Apr/21	13/May/21													<div><div></div> Prep &amp; Install Flooring</div>												
2FK 190	Install MEP & Fire Alarm Finishes	5	5	0%	30/Apr/21	06/May/21													<div><div></div> Install MEP &amp; Fire Alarm Finishes</div>												
2FK 210	Install Millwork & Casework	8	8	0%	30/Apr/21	11/May/21													<div><div></div> Install Millwork &amp; Casework</div>												
2FK 240	Install Division 10,11,12	10	10	0%	03/May/21	14/May/21													<div><div></div> Install Division 10,11,12</div>												
2FK 260	Install OH Coiling Door	1	1	0%	03/May/21	03/May/21													<div><div></div> Install OH Coiling Door</div>												
2FK 200	Install Food Service Equipment & Appliances	15	15	0%	14/May/21	04/Jun/21													<div><div></div> Install Food Service Equipment &amp; Appliances</div>												
2FK 230	Complete Finishes Kitchen	0	0	0%		04/Jun/21													<div><div></div> Complete Finishes Kitchen</div>												
Area C		98	98		04/Mar/21	22/Jul/21																									
1st Floor Finishes - Admin & Pre-K		63	63		04/Mar/21	02/Jun/21																									
2F1 100	Start Finishes 1st Floor	0	0	0%	04/Mar/21														<div><div></div> Start Finishes 1st Floor</div>												
2F1 110	Hang Drywall/Tape & Finish	12	12	0%	10/Mar/21	25/Mar/21													<div><div></div> Hang Drywall/Tape &amp; Finish</div>												
2F1 120	Paint - Prime & First Coat	5	5	0%	19/Mar/21	25/Mar/21													<div><div></div> Paint - Prime &amp; First Coat</div>												
2F1 130	Install Ceiling Grids and Frames	5	5	0%	26/Mar/21	01/Apr/21													<div><div></div> Install Ceiling Grids and Frames</div>												
2F1 250	Install Sprinklers drops and heads	5	5	0%	26/Mar/21	01/Apr/21													<div><div></div> Install Sprinklers drops and heads</div>												
2F1 260	Pull ATC/Teledata Wiring	10	10	0%	26/Mar/21	08/Apr/21													<div><div></div> Pull ATC/Teledata Wiring</div>												
2F1 140	Install Light Fixtures	10	10	0%	30/Mar/21	12/Apr/21													<div><div></div> Install Light Fixtures</div>												
2F1 150	Install Acoustical Ceiling Tile & Acoustical Panels	15	15	0%	02/Apr/21	23/Apr/21													<div><div></div> Install Acoustical Ceiling Tile &amp; Acoustical Panels</div>												
2F1 160	Install HVAC Radiant Panels & RGDs	10	10	0%	02/Apr/21	15/Apr/21													<div><div></div> Install HVAC Radiant Panels &amp; RGDs</div>												
2F1 170	Install Floor & Wall Tile	10	10	0%	02/Apr/21	15/Apr/21													<div><div></div> Install Floor &amp; Wall Tile</div>												
2F1 360	Install Doors, HW, Interior SF & Interior Glazing	5	5	0%	05/Apr/21	09/Apr/21													<div><div></div> Install Doors, HW, Interior SF &amp; Interior Glazing</div>												
2F1 180	Paint Finish Coat	5	5	0%	13/Apr/21	20/Apr/21													<div><div></div> Paint Finish Coat</div>												
2F1 190	Install MEP & Fire Alarm Finishes	5	5	0%	13/Apr/21	20/Apr/21													<div><div></div> Install MEP &amp; Fire Alarm Finishes</div>												
2F1 200	Install Bathroom Plumbing Fixtures	5	5	0%	16/Apr/21	23/Apr/21													<div><div></div> Install Bathroom Plumbing Fixtures</div>												
2F1 210	Install Millwork & Casework	15	15	0%	21/Apr/21	11/May/21													<div><div></div> Install Millwork &amp; Casework</div>												
2F1 240	Install Division 10,11,12	10	10	0%	26/Apr/21	07/May/21													<div><div></div> Install Division 10,11,12</div>												
2F1 220	Prep & Install Flooring	15	15	0%	12/May/21	02/Jun/21													<div><div></div> Prep &amp; Install Flooring</div>												
2F1 270	Install Classroom Bathroom Fixtures	8	8	0%	12/May/21	21/May/21													<div><div></div> Install Classroom Bathroom Fixtures</div>												
2F1 230	Complete Finishes 1st Floor	0	0	0%		02/Jun/21													<div><div></div> Complete Finishes 1st Floor</div>												
2nd Floor Finishes - Library, Bridge		93	93		11/Mar/21	22/Jul/21																									
2F2 100	Start Finishes 2nd Floor	0	0	0%	11/Mar/21														<div><div></div> Start Finishes 2nd Floor</div>												



DECEMBER SCHEDULE

Project Controls SCHEDULE

Activity ID	Activity Name	Orig Dur (Days)	Rem Dur	Act % Comp	Start	Finish	2018			2019				2020				2021				2022				2023			4	
							Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3		
2F2	110	Hang Drywall/Tape & Finish	10	10	0%	11/Mar/21	24/Mar/21												■ Hang Drywall/Tape & Finish											
	260	Pull ATC/Teledata Wiring	10	10	0%	19/Mar/21	01/Apr/21												■ Pull ATC/Teledata Wiring											
	120	Paint - Prime & First Coat	5	5	0%	22/Mar/21	26/Mar/21												■ Paint - Prime & First Coat											
	130	Install Ceiling Grids and Frames	5	5	0%	29/Mar/21	02/Apr/21												■ Install Ceiling Grids and Frames											
	350	Install Doors, HW, Interior SF & Interior Glazing	5	5	0%	29/Mar/21	02/Apr/21												■ Install Doors, HW, Interior SF & Interior Glazing											
	140	Install Light Fixtures	10	10	0%	01/Apr/21	14/Apr/21												■ Install Light Fixtures											
	160	Install HVAC Radiant Panels & RGDs	5	5	0%	05/Apr/21	09/Apr/21												■ Install HVAC Radiant Panels & RGDs											
	170	Install Floor & Wall Tile	10	10	0%	05/Apr/21	16/Apr/21												■ Install Floor & Wall Tile											
	250	Install Sprinklers drops and heads	8	8	0%	05/Apr/21	14/Apr/21												■ Install Sprinklers drops and heads											
	150	Install Acoustical Ceiling Tile & Wood Ceiling Panels	5	5	0%	15/Apr/21	22/Apr/21												■ Install Acoustical Ceiling Tile & Wood Ceiling Panels											
	180	Paint Finish Coat	5	5	0%	15/Apr/21	22/Apr/21												■ Paint Finish Coat											
	190	Install MEP & Fire Alarm Finishes	5	5	0%	15/Apr/21	22/Apr/21												■ Install MEP & Fire Alarm Finishes											
	210	Install Millwork & Casework	15	15	0%	15/Apr/21	06/May/21												■ Install Millwork & Casework											
	220	Prep & Install Flooring	12	12	0%	23/Apr/21	10/May/21												■ Prep & Install Flooring											
	240	Install Division 10,11,12	5	5	0%	27/Apr/21	03/May/21												■ Install Division 10,11,12											
	230	Complete Finishes 2nd Floor	0	0	0%		10/May/21												◆ Complete Finishes 2nd Floor											
	270	Install Outdoor Classroom Finishes	15	15	0%	01/Jul/21	22/Jul/21												■ Install Outdoor Classroom Finishes											
	Building Interface - West Wing to East Wing		88	88		17/Mar/21	21/Jul/21																							
	1SU	240	Install Lightning Protection	10	10	0%	06/Apr/21	20/Apr/21												■ Install Lightning Protection										
	2IF	130	End of School Spring 2021/School Vacated	0	0	0%	28/Jun/21*													◆ End of School Spring 2021/School Vacated										
2IF	100	Remove Temporary Separation Partition Wall	1	1	0%	29/Jun/21	29/Jun/21												■ Remove Temporary Separation Partition Wall											
2IF	110	Connect MEPs	12	12	0%	30/Jun/21	16/Jul/21												■ Connect MEPs											
2IF	140	Install transition finishes for Occupancy	12	12	0%	30/Jun/21	16/Jul/21												■ Install transition finishes for Occupancy											
2IF	120	Complete Interface Area fit out and finishes	3	3	0%	19/Jul/21	21/Jul/21												■ Complete Interface Area fit out and finishes											
Hub Finishes		78	78		17/Mar/21	07/Jul/21																								
2HF	380	Start Finishes Hub	0	0	0%	17/Mar/21													◆ Start Finishes Hub											
2HF	390	Hang Drywall/Tape & Finish	10	10	0%	26/Mar/21	08/Apr/21												■ Hang Drywall/Tape & Finish											
2HF	400	Paint - Prime & First Coat	5	5	0%	09/Apr/21	15/Apr/21												■ Paint - Prime & First Coat											
2HF	410	Install Ceiling & Column Furring for Finishes	3	3	0%	16/Apr/21	21/Apr/21												■ Install Ceiling & Column Furring for Finishes											
2HF	510	Install Framing for Monumental Stair	1	1	0%	16/Apr/21	16/Apr/21												┆ Install Framing for Monumental Stair											
2HF	530	Install Handrails & Guardrails	1	1	0%	20/Apr/21	20/Apr/21												┆ Install Handrails & Guardrails											
2HF	520	Install Sprinkler heads and drops	5	5	0%	22/Apr/21	28/Apr/21												■ Install Sprinkler heads and drops											
2HF	540	Install Doors, HW, Interior SF & Interior Glazing	3	3	0%	28/Apr/21	30/Apr/21												┆ Install Doors, HW, Interior SF & Interior Glazing											
2HF	430	Install Acoustic Hardwood Panels at Ceiling & Column Wraps	25	25	0%	29/Apr/21	03/Jun/21												■ Install Acoustic Hardwood Panels at Ceiling & Column Wraps											
2HF	420	Install Light Fixtures	8	8	0%	20/May/21	01/Jun/21												■ Install Light Fixtures											
2HF	460	Paint (& Stains) Finish Coat	5	5	0%	04/Jun/21	10/Jun/21												■ Paint (& Stains) Finish Coat											
2HF	490	Prep & Install Flooring	15	15	0%	09/Jun/21	29/Jun/21												■ Prep & Install Flooring											
2HF	470	Install MEP & Fire Alarm Finishes	5	5	0%	11/Jun/21	17/Jun/21												■ Install MEP & Fire Alarm Finishes											
2HF	480	Install Display Cases / Millwork Finishes	8	8	0%	11/Jun/21	22/Jun/21												■ Install Display Cases / Millwork Finishes											
2HF	300	Install Division 10,11,12	10	10	0%	11/Jun/21	24/Jun/21												■ Install Division 10,11,12											
2HF	450	Install Wall Tile & Paneling	5	5	0%	23/Jun/21	29/Jun/21												■ Install Wall Tile & Paneling											
2HF	550	Install Stair Wood Platforms	5	5	0%	23/Jun/21	29/Jun/21												■ Install Stair Wood Platforms											
2HF	440	Install HVAC Radiant Panel	5	5	0%	30/Jun/21	07/Jul/21												■ Install HVAC Radiant Panel											
2HF	560	Install Rubber Treads and Risers	2	2	0%	30/Jun/21	01/Jul/21												┆ Install Rubber Treads and Risers											
2HF	500	Complete Finishes Hub	0	0	0%		07/Jul/21												◆ Complete Finishes Hub											
WTR Work Lists, Cleaning, Punch Lists		53	53		11/May/21	26/Jul/21																								
SC21030	Clean Up, WTR Punch List - 2nd Floor	10	10	0%	11/May/21	24/May/21												■ Clean Up, WTR Punch List - 2nd Floor												
SC21120	Clean Up, WTR Punch List - Gymnasium/Caf	15	15	0%	01/Jun/21	21/Jun/21												■ Clean Up, WTR Punch List - Gymnasium/Caf												
SC21020	Clean Up, WTR Punch List - 1st Floor	15	15	0%	03/Jun/21	23/Jun/21												■ Clean Up, WTR Punch List - 1st Floor												
SC21130	Clean Up, WTR Punch List - Kitchen	15	15	0%	07/Jun/21	25/Jun/21												■ Clean Up, WTR Punch List - Kitchen												
SC21110	Clean Up, WTR Punch List - Interface	3	3	0%	22/Jul/21	26/Jul/21												■ Clean Up, WTR Punch List - Interface												
Phase 2 Testing & Substantial Completion		31	31		24/Jun/21	06/Aug/21																								








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**DECEMBER SCHEDULE**

## Project Controls SCHEDULE

[illegible]

<b>Start Date:</b>	08/Feb/18
<b>Finish Date:</b>	20/Jan/22
<b>Data Date:</b>	31/Dec/20
<b>Print Date:</b>	06/Jan/21
<b>Layout:</b>	Ownernm

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

**Manchester Memorial Elementary School**

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