



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

November 2019

**Manchester Memorial Elementary School
Monthly Construction Report Summary – November 2019**

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**Manchester Memorial Elementary School
Monthly Construction Report Summary – November 2019**

SECTION 2 - PROJECT SCHEDULE UPDATE

Summary:

Our attached schedule update has a **data date of 11/30/19**, 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:

- NGrid Easement Authorization signed by Board of Selectmen on December 3rd, 2019.

Phase 1 – Upcoming Critical Path Milestones (per Updated P6 Schedule):

MILESTONE ACTIVITY	TARGET COMPLETION	ACTUAL COMPLETION DATE
Slab-on Deck Pours Complete	11/27/19	11/26/19
Slab-on Grade Pours Complete	1/7/20	
Roof Complete (weather tight)/	1/20/20	
AVB Complete	2/3/20	
2 nd Floor Rough-in	3/18/20	
1 st Floor Rough-in	4/7/20	

November Summary of Progress:

- Underground Utilities
 - Complete Sewer Manholes and drainage installation.
 - Complete Telcom and Primary Ductbanks, Verizon Streetwork (possibly spring completion).
- Completed Steel Erection, Detailing Ongoing through beginning of December.
- Building wrapped, Slab-on-Deck poured.
- MEP Sleeve Penetrations installed for 2nd floor and roof pours.
- Underground plumbing mostly completed and inspected. Backfill started.

December Look Ahead:

- Exterior Roof Edge Framing.
- Start Layout and Exterior Wall Framing and Sheathing.
- Roofing to Start
- Roof curbs, roof drains, sleeve penetrations, etc. to be completed prior to roof install.
- Roof Slabs to be poured.
- Preparation needs to begin for ground improvements change order at west stair/ramp to avoid delay.
- CMU Elevator and Stair Shafts to be installed, followed by Stair #1 Erection.

**Manchester Memorial Elementary School
Monthly Construction Report Summary – November 2019**

SECTION 2 – PROGRESS PHOTOS



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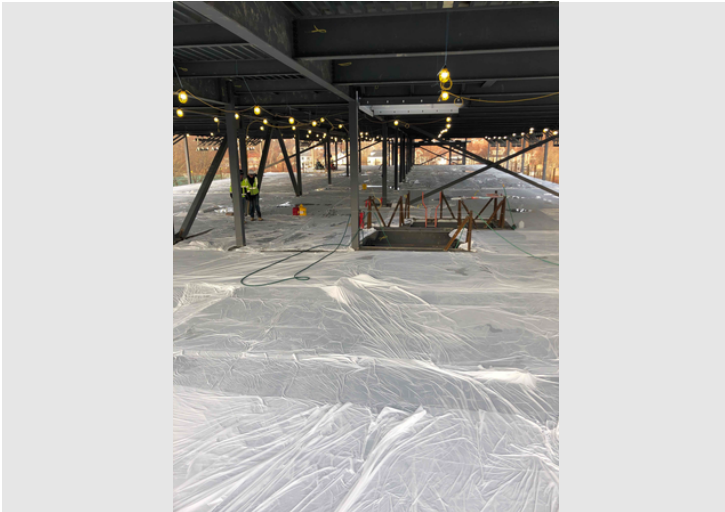
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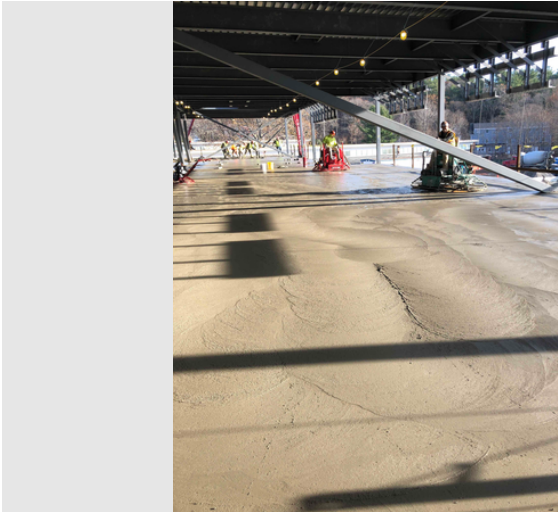
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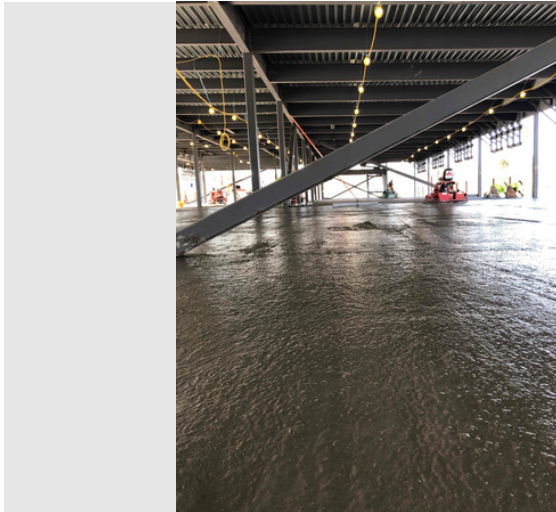
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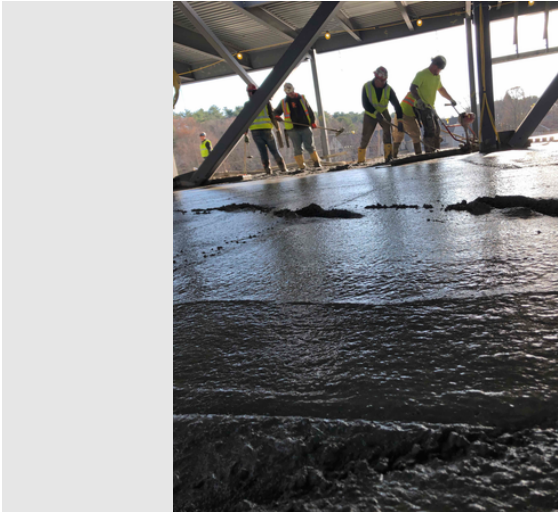
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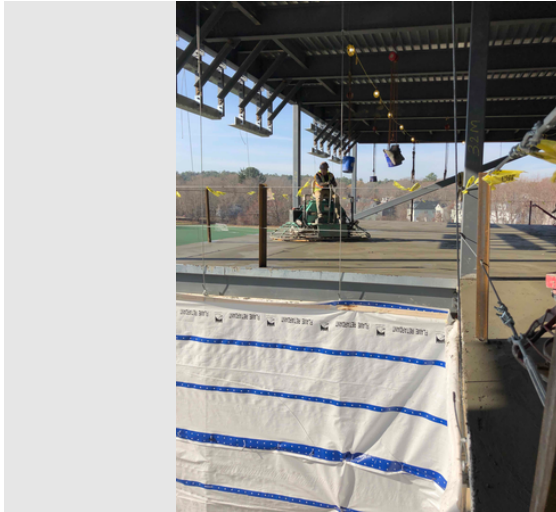
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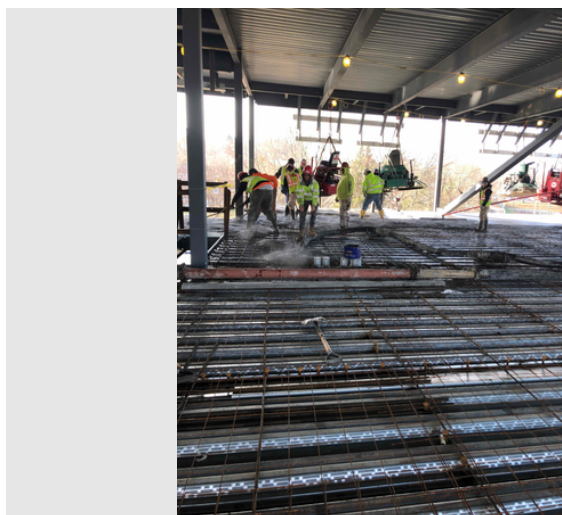
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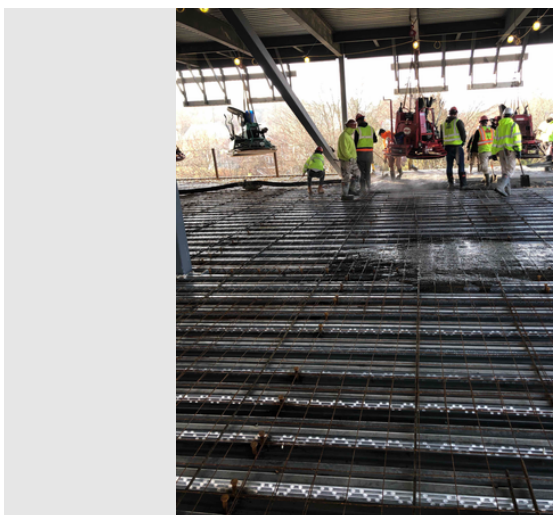
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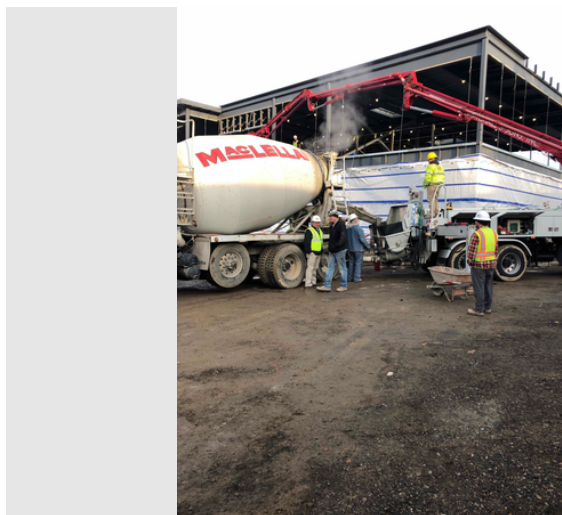
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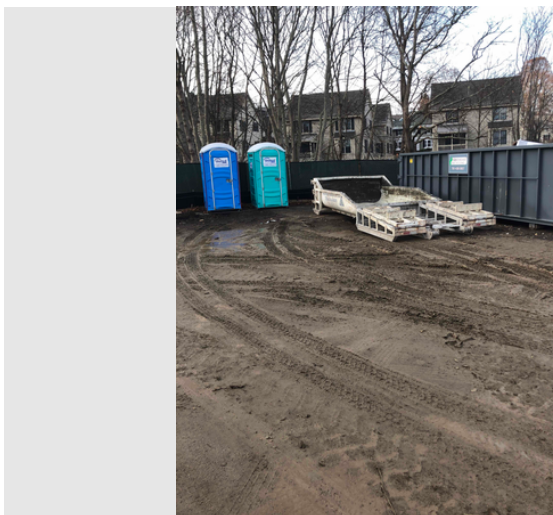
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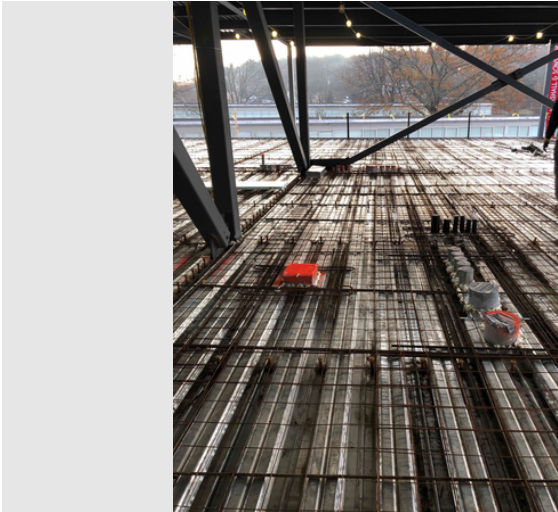
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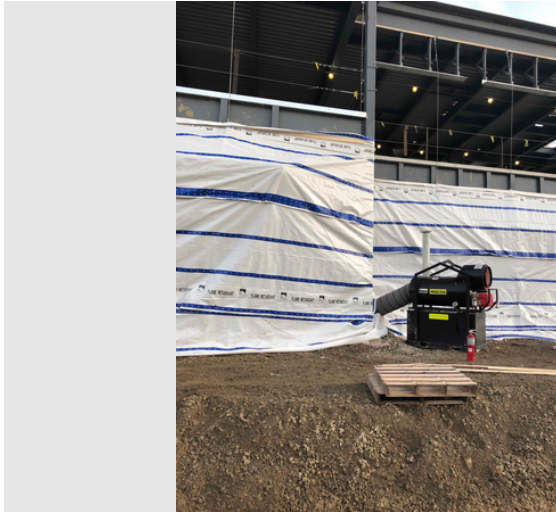
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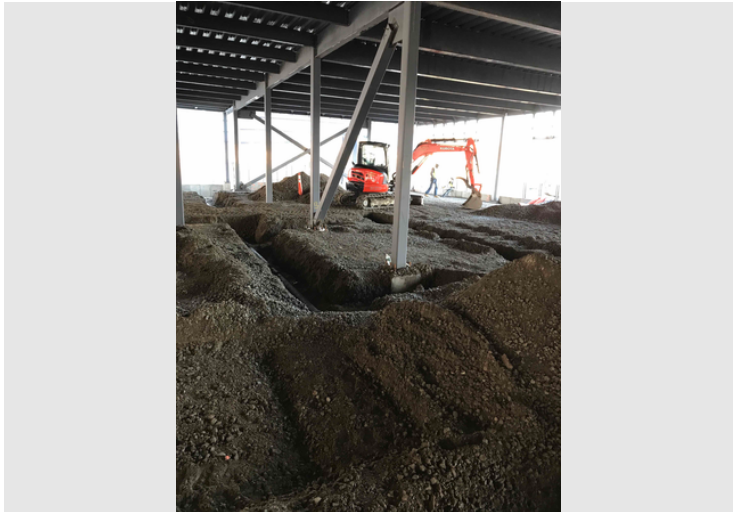
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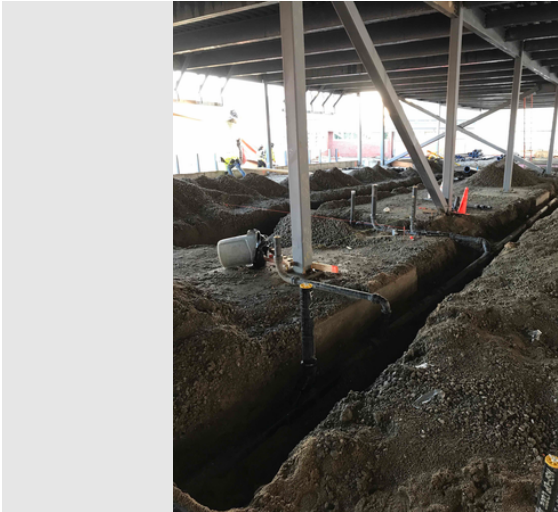
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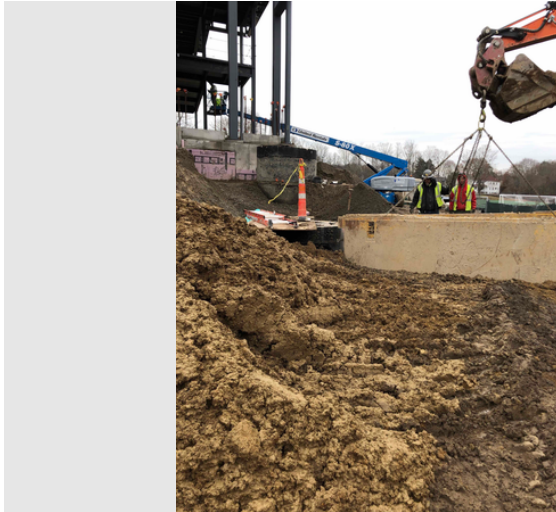
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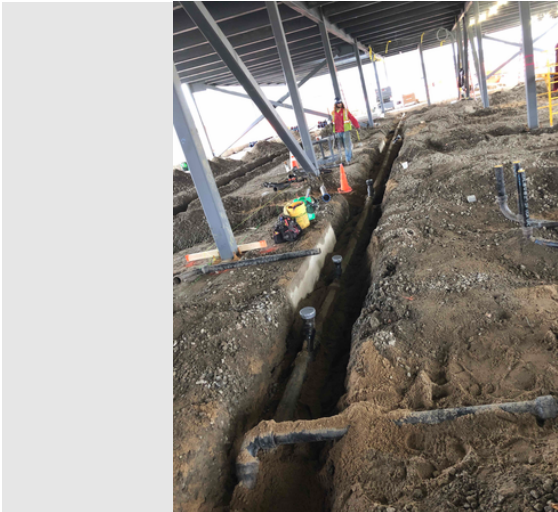
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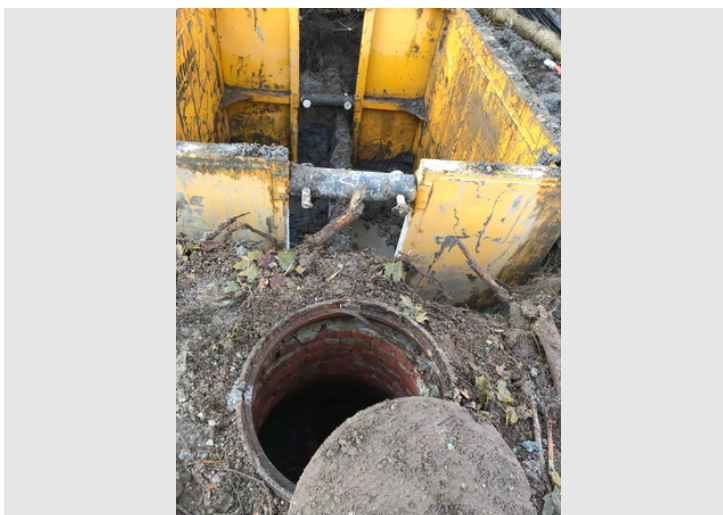
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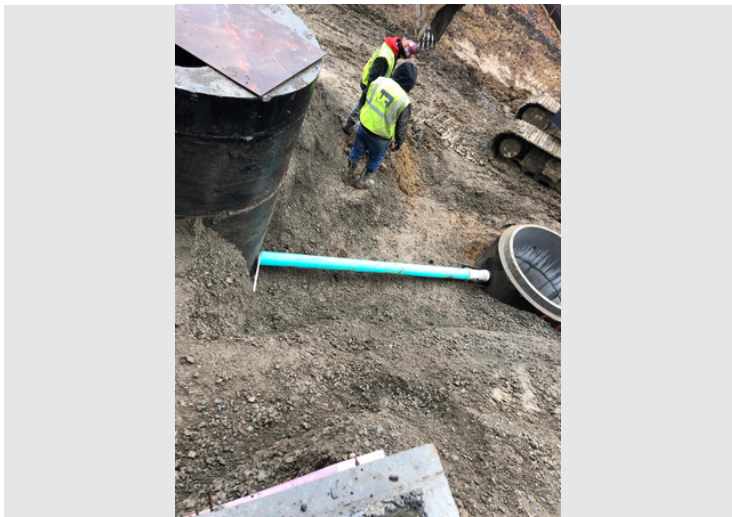
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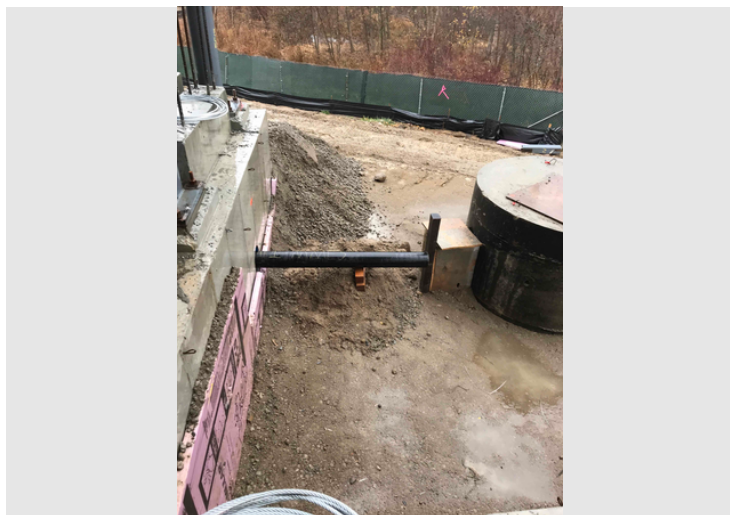
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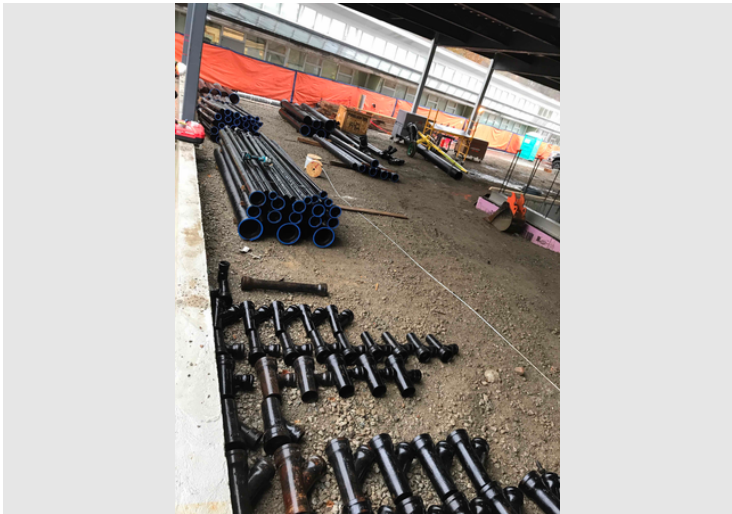
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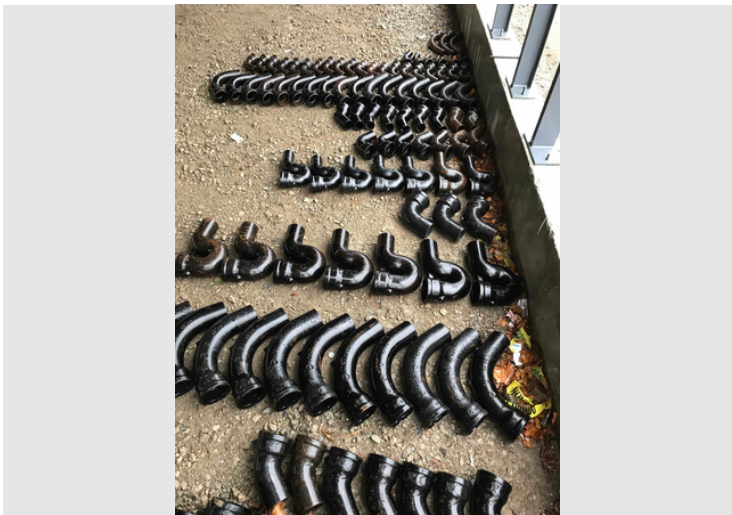
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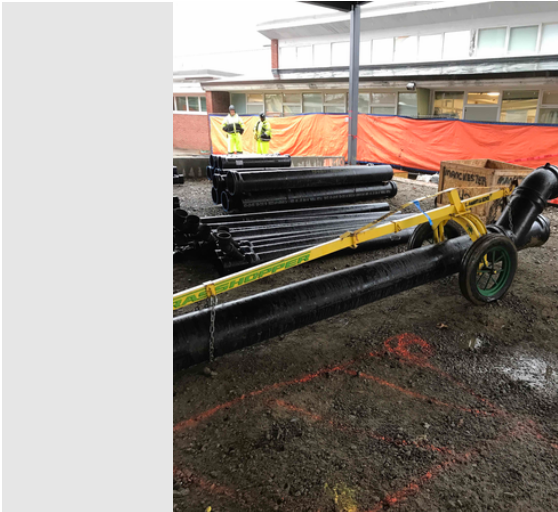
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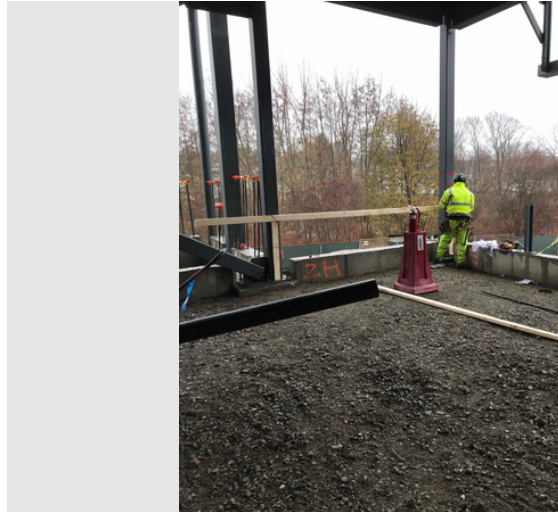
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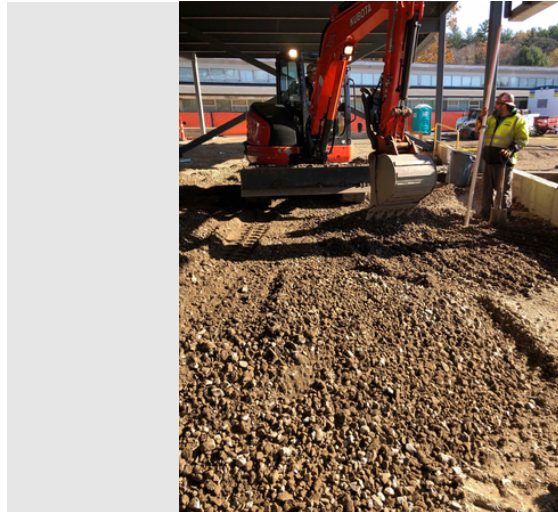
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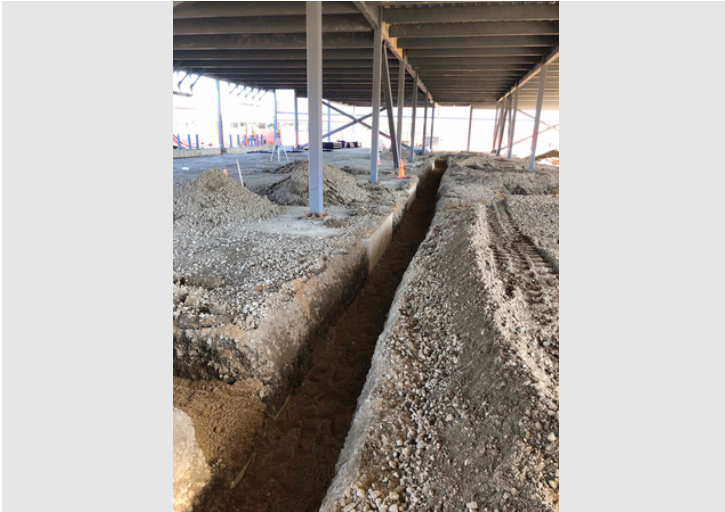
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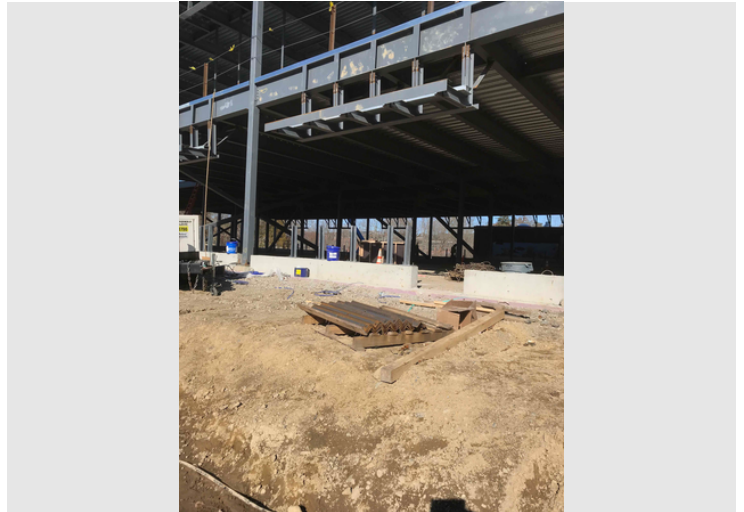
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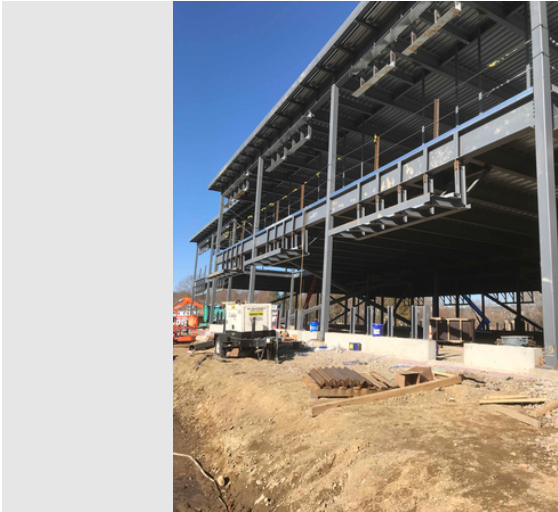
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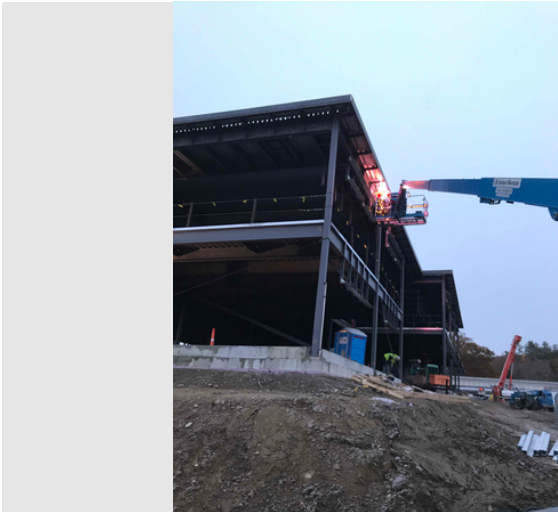
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Rick Lawrence

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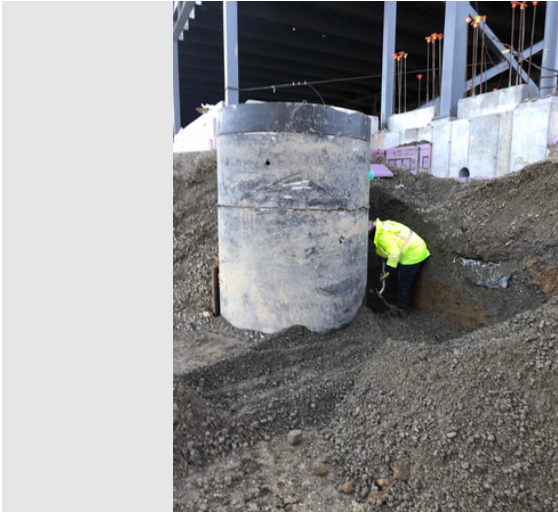
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W.T. Rich Company

Printed on Sun Dec 8, 2019 at 09:14 am EST

Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
Manchester by the Sea, Massachusetts 01944



Description

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2019/11/08 08:09:49

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2019/11/08 08:09:53

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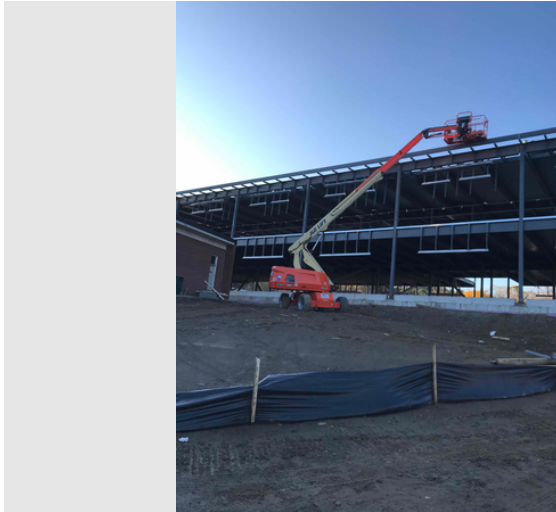
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W.T. Rich Company

Printed on Sun Dec 8, 2019 at 09:14 am EST

Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
Manchester by the Sea, Massachusetts 01944



Description

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2019/11/07 08:38:46

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Rick Lawrence

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2019/11/08 07:22:46

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Description

Taken Date

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2019/11/08 07:22:45

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W.T. Rich Company

Printed on Sun Dec 8, 2019 at 09:14 am EST

Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
Manchester by the Sea, Massachusetts 01944



Description

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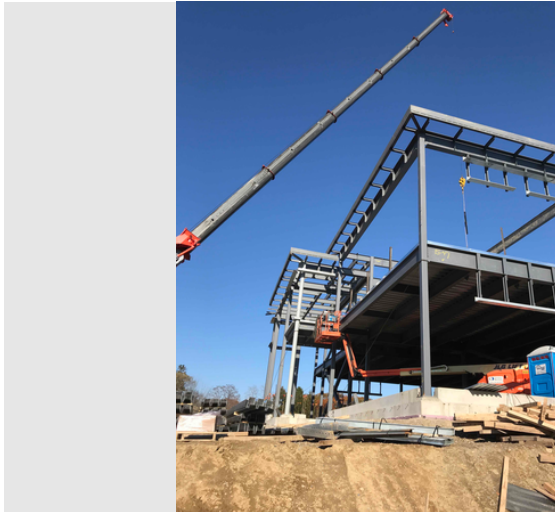
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W.T. Rich Company

Printed on Sun Dec 8, 2019 at 09:14 am EST

Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
Manchester by the Sea, Massachusetts 01944



Description

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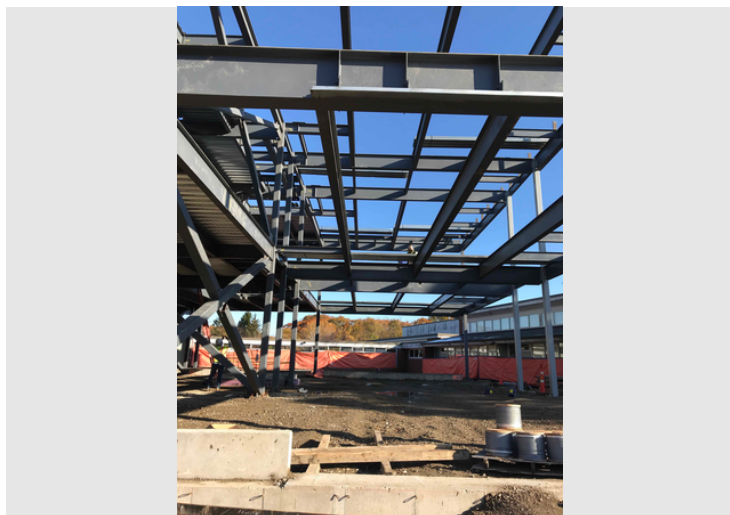
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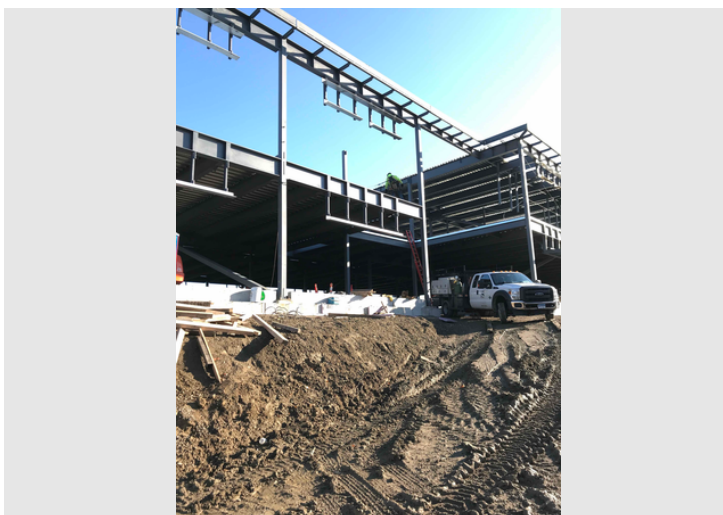
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W.T. Rich Company

Printed on Sun Dec 8, 2019 at 09:14 am EST

Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
Manchester by the Sea, Massachusetts 01944



Description

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W.T. Rich Company

Printed on Sun Dec 8, 2019 at 09:14 am EST

Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
Manchester by the Sea, Massachusetts 01944



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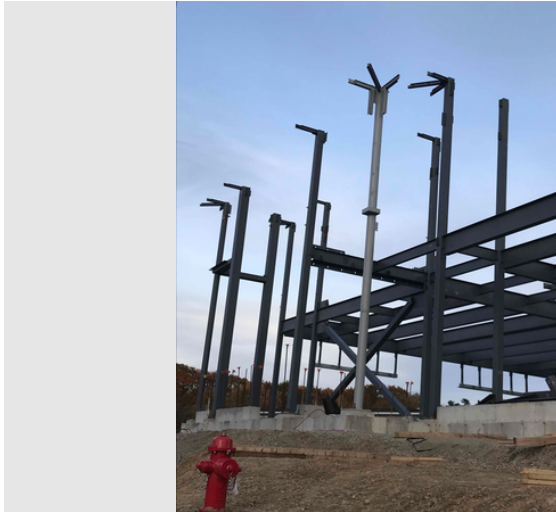
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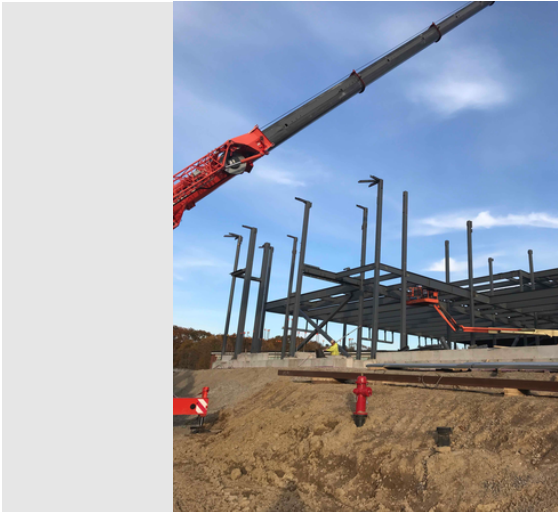
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W.T. Rich Company

Printed on Sun Dec 8, 2019 at 09:14 am EST

Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
Manchester by the Sea, Massachusetts 01944



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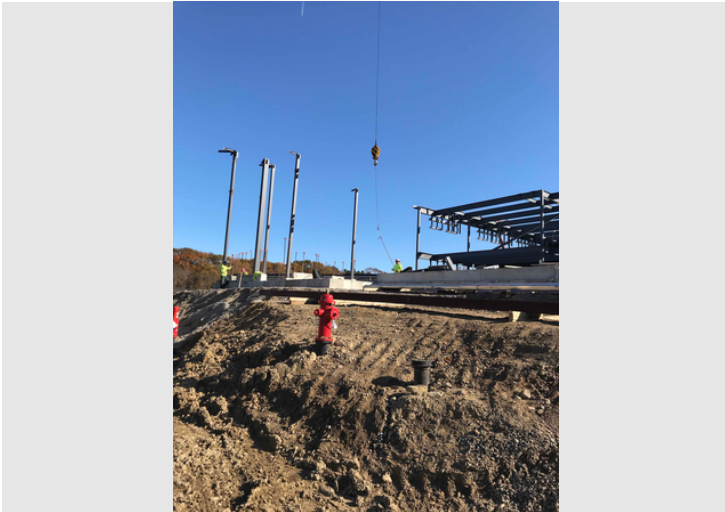
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W.T. Rich Company

Printed on Sun Dec 8, 2019 at 09:14 am EST

Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
Manchester by the Sea, Massachusetts 01944



Description

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**Manchester Memorial Elementary School
Monthly Construction Report Summary – November 2019**

SECTION 3 – ATTACHMENTS

Project Schedule					Manchester Memorial Elementary School																Data Date: 11/30/19 Print Date: 12/7/19								
Activity ID	Activity Name	Orig Dur	Start	Finish	Tot Float	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	Q4	
Manchester Memorial Elementary School		1007	08-Feb-18 A	31-Jan-22	-39																								
Design and Preconstruction		505	08-Feb-18 A	05-Feb-20	146																								
Schematic Design		153	26-Apr-18 A	04-Dec-18 A																									
MME 320	Proposals due for CM at Risk Bid	0	26-Apr-18 A			Proposals due for CM at Risk Bid																							
MME 330	Award CM at Risk	15	26-Apr-18 A	16-May-18 A		Award CM at Risk																							
MME 380	Schematic Design Issued for Estimating	5	17-May-18 A	23-May-18 A		Schematic Design Issued for Estimating																							
MME 280	Prepare SD Cost Estimate	10	24-May-18 A	07-Jun-18 A		Prepare SD Cost Estimate																							
MME 290	Conduct SD Design Review	17	24-May-18 A	18-Jun-18 A		Conduct SD Design Review																							
MME 300	SD Cost Estimate Reconciliation and Value Management	7	08-Jun-18 A	18-Jun-18 A		SD Cost Estimate Reconciliation and Value Management																							
MME 310	Obtain Local Approval	7	19-Jun-18 A	27-Jun-18 A		Obtain Local Approval																							
MME 360	Submit SD to MSBA	0	11-Jul-18 A	11-Jul-18 A		Submit SD to MSBA																							
MME 340	MSBA Approval of SD	0	29-Aug-18 A	29-Aug-18 A		MSBA Approval of SD																							
MME 390	Execute PS&B with MSBA	0	20-Sep-18 A	20-Sep-18 A		Execute PS&B with MSBA																							
MME 400	District Vote	0	06-Nov-18 A	06-Nov-18 A		District Vote																							
MME 410	District Borrowing	19	06-Nov-18 A	04-Dec-18 A		District Borrowing																							
Design Development		62	09-Nov-18 A	08-Feb-19 A																									
DD 100	Authorization to Proceed with DD	1	09-Nov-18 A	09-Nov-18 A		Authorization to Proceed with DD																							
DD 110	Develop Design Development Documents and Issue for Pricing	47	09-Nov-18 A	18-Jan-19 A		Develop Design Development Documents and Issue for Pricing																							
DD 120	Prepare Design Development Documents Cost Estimate	11	18-Jan-19 A	01-Feb-19 A		Prepare Design Development Documents Cost Estimate																							
DD 150	Conduct Design Development Documents Review	16	18-Jan-19 A	08-Feb-19 A		Conduct Design Development Documents Review																							
DD 130	Design Development Reconciliation/Value Engineering	6	01-Feb-19 A	08-Feb-19 A		Design Development Reconciliation/Value Engineering																							
DD 140	MSBA DD Submission	1	08-Feb-19 A	08-Feb-19 A		MSBA DD Submission																							
Local Approvals		17	15-Oct-18 A	06-Nov-18 A																									
APP 100	Town Meetings	2	15-Oct-18 A	16-Oct-18 A		Town Meetings																							
APP 110	Town Ballots	1	06-Nov-18 A	06-Nov-18 A		Town Ballots																							
Early Package #1 Abatement, Demo, Site Prep		93	08-Feb-19 A	21-Jun-19 A																									
EP1 100	Draft EP#1 Docs	1	08-Feb-19 A	08-Feb-19 A		Draft EP#1 Docs																							
EP1 110	EP#1 Review Comments	10	08-Feb-19 A	22-Feb-19 A		EP#1 Review Comments																							
EP1 120	EP#1 Bid Docs	11	22-Feb-19 A	08-Mar-19 A		EP#1 Bid Docs																							
EP1 130	EP#1 Bid & Desclope	21	08-Mar-19 A	21-Jun-19 A		EP#1 Bid & Desclope																							
EP1 150	EP #1 Approval For Full Award	0	30-May-19 A	30-May-19 A		EP #1 Approval For Full Award																							
EP1 140	EP#1 Approval to Release Submittals	0	21-Jun-19 A	21-Jun-19 A		EP#1 Approval to Release Submittals																							
School Building Committee Meetings		73	29-May-19 A	10-Sep-19 A																									
SBC 100	SBC MEETING #41 - Approve EP #1 (Proceed w. Submittals, Full Award	1	29-May-19 A	29-May-19 A		SBC MEETING #41 - Approve EP #1 (Proceed w. Submittals, Full Award Upon Planning Board Approval)																							
SBC 110	SBC MEETING #43 - Approve 60% CD's	1	29-May-19 A	29-May-19 A		SBC MEETING #43 - Approve 60% CD's																							
SBC 120	SBC MEETING #44 - Approve EP #2 (Proceed w. Submittals, Full Award	1	04-Jun-19 A	04-Jun-19 A		SBC MEETING #44 - Approve EP #2 (Proceed w. Submittals, Full Award Upon PB Approval) EP #1 Fully Approved to Proceed																							
SBC 130	SBC MEETING #46 - Approve 90% CD's and Fully Approve EP #2 Contr	1	16-Jul-19 A	16-Jul-19 A		SBC MEETING #46 - Approve 90% CD's and Fully Approve EP #2 Contracts to Proceed w. Construction																							
SBC 170	SBC MEETING #47 - Approve EP #3 Contracts	1	12-Aug-19 A	12-Aug-19 A		SBC MEETING #47 - Approve EP #3 Contracts																							
SBC 140	SBC MEETING #48 - Approve 100% Construction Documents (CD)	1	10-Sep-19 A	10-Sep-19 A		SBC MEETING #48 - Approve 100% Construction Documents (CD)																							
Conservation Commission Approval Process		66	04-Apr-19 A	11-Jul-19 A																									
CC 100	Con Com Submission #1A Material Submission by Samiotes	13	04-Apr-19 A	22-Apr-19 A		Con Com Submission #1A Material Submission by Samiotes																							
CC 110	Con Com Submission #1A Con Com Review	1	23-Apr-19 A	23-Apr-19 A		Con Com Submission #1A Con Com Review																							
CC 120	Con Com Submission #1B Material Submission to Linden	6	23-Apr-19 A	30-Apr-19 A		Con Com Submission #1B Material Submission to Linden																							
CC 130	Con Com Submission #1B Linden Review, Comment, Meeting	7	01-May-19 A	09-May-19 A		Con Com Submission #1B Linden Review, Comment, Meeting																							
CC 140	Con Com Submission #1B Update per Linden Comments	4	10-May-19 A	15-May-19 A		Con Com Submission #1B Update per Linden Comments																							
CC 150	Con Com Submission #1B Initial Material Submission to Con Com	1	16-May-19 A	16-May-19 A		Con Com Submission #1B Initial Material Submission to Con Com																							
CC 160	Con Com Submission #1A Approval (No Later than)	1	22-May-19 A	05-Jun-19 A		Con Com Submission #1A Approval (No Later than)																							
CC 170	Con Com Submission #1B Con Com Review	1	04-Jun-19 A	04-Jun-19 A		Con Com Submission #1B Con Com Review																							
CC 180	Con Com Submission #1B Updated Final Plans to develop OOC	1	06-Jun-19 A	06-Jun-19 A		Con Com Submission #1B Updated Final Plans to develop OOC																							
CC 190	Con Com Submission #1B - OOC plus Appeal Period to Start Const.	13	25-Jun-19 A	11-Jul-19 A		Con Com Submission #1B - OOC plus Appeal Period to Start Const.																							
Planning Board Approval Process		20	13-May-19 A	10-Jun-19 A																									
PB 110	Planning Board Meetings- Submission #1 Scope Review (potentially appr	1	13-May-19 A	13-May-19 A		Planning Board Meetings- Submission #1 Scope Review (potentially approve) Demolition																							
PB 140	Planning Board Meetings- Submission #1 Voting	1	28-May-19 A	28-May-19 A		Planning Board Meetings- Submission #1 Voting																							
PB 120	Planning Board Meetings- Submission #2 Voting	1	10-Jun-19 A	10-Jun-19 A		Planning Board Meetings- Submission #2 Voting																							
PB 130	Planning Board Meetings- Submission #2 Scope Review Full Project	1	10-Jun-19 A	10-Jun-19 A		Planning Board Meetings- Submission #2 Scope Review Full Project																							
60% Construction Documents		328	08-Feb-18 A	24-May-19 A																									
CD6 100	Approval to Proceed with CDs	1	08-Feb-18 A	08-Feb-18 A		Approval to Proceed with CDs																							
CD6 110	60% Construction Documents Pricing Set Issued	20	08-Feb-19 A	03-May-19 A		60% Construction Documents Pricing Set Issued																							
CD6 140	60% Construction Documents Reconciliation/Value Engineering	6	01-May-19 A	08-May-19 A		60% Construction Documents Reconciliation/Value Engineering																							

Summary

Remaining Work

Critical Remaining Work

Milestone

Critical Milestone

Manchester Memorial Elementary School

Page 1 of 28

W.T. RICH COMPANY, INC.

Project Schedule						Manchester Memorial Elementary School																								Attachment
Activity ID	Activity Name	Orig Dur	Start	Finish	Tot Float	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	Q4		
078446 - Fire Resistive Joints		61	31-Oct-19 A	28-Jan-20	469																									
SM 7 1650	Prepare and Submit Package Fire Resistant Joints	10	31-Oct-19 A	13-Dec-19	469																									
SM 7 1660	Review and Approve Package Fire Resistant Joints	15	16-Dec-19	07-Jan-20	469																									
SM 7 1670	Fabricate and Deliver Fire Resistant Joints	15	08-Jan-20	28-Jan-20	469																									
079200 - Joint Sealants		40	02-Dec-19	28-Jan-20	96																									
SM 7 1680	Prepare and Submit Package Joint Sealants	10	02-Dec-19	13-Dec-19	96																									
SM 7 1690	Review and Approve Package Joint Sealants	15	16-Dec-19	07-Jan-20	96																									
SM 7 1700	Fabricate and Deliver Joint Sealants	15	08-Jan-20	28-Jan-20	96																									
079500 - Expansion Control		40	02-Dec-19	28-Jan-20	220																									
SM 7 1710	Prepare and Submit Package Expansion Control	10	02-Dec-19	13-Dec-19	220																									
SM 7 1720	Review and Approve Package Expansion Control	15	16-Dec-19	07-Jan-20	220																									
SM 7 1730	Fabricate and Deliver Expansion Control	15	08-Jan-20	28-Jan-20	220																									
Division 08 - Openings		199	15-Aug-19 A	12-Jun-20	250																									
081113 - Hollow Metal Doors & Frames		94	14-Oct-19 A	26-Feb-20	57																									
SM 8 1110	Prepare and Submit Package HM Doors & Frames	20	14-Oct-19 A	01-Nov-19 A																										
SM 8 1210	Review and Approve Package HM Doors & Frames	30	04-Nov-19 A	22-Nov-19 A																										
SM 8 1230	Fabricate and Delivery Masonry HM Door Frames	20	04-Nov-19 A	05-Dec-19 A																										
SM 8 1270	Fabricate and Deliver HM Door Frames	20	25-Nov-19 A	09-Dec-19	28																									
SM 8 1280	Fabricate and Deliver HM Doors	60	02-Dec-19	26-Feb-20	57																									
081416 - Flush Wood Doors		110	02-Dec-19	06-May-20	7																									
SM 8 1120	Prepare and Submit Package Flush Wood Doors	20	02-Dec-19	30-Dec-19	7																									
SM 8 1220	Review and Approve Package Flush Wood Doors	30	31-Dec-19	11-Feb-20	7																									
SM 8 1290	Fabricate and Deliver Flush Wood Doors	60	12-Feb-20	06-May-20	7																									
083323 - Access Doors & Frames		60	02-Dec-19	26-Feb-20	19																									
SM8 1090	Prepare and Submit Package Access Doors	15	02-Dec-19	20-Dec-19	19																									
SM8 1100	Review and Approve Package Access Doors	15	23-Dec-19	14-Jan-20	19																									
SM8 1110	Fabricate and Deliver Access Doors	30	15-Jan-20	26-Feb-20	19																									
083323 - Coiling Doors		90	06-Feb-20	12-Jun-20	250																									
SM8 1000	Prepare and Submit Package Overhead Coiling Doors	15	06-Feb-20	27-Feb-20	234																									
SM8 1010	Review and Approve Package Overhead Coiling Doors	15	28-Feb-20	19-Mar-20	234																									
SM8 1020	Fabricate and Deliver Coiling Doors	60	20-Mar-20	12-Jun-20	250																									
084113 Aluminum Entrances		132	19-Aug-19 A	08-Apr-20	4																									
SM 8 1020	Prepare and Submit Package Storefronts	25	19-Aug-19 A	25-Sep-19 A																										
SM 8 1080	Review and Approve Package Storefronts	25	26-Sep-19 A	31-Oct-19 A																										
SM 8 1180	Fabricate and Deliver Storefront & Entrance Frames	90	31-Oct-19 A	08-Apr-20	4																									
084113 Phase 1 Storefront Windows		122	03-Sep-19 A	25-Mar-20	25																									
SM 8 1330	Prepare and Submit Package Storefront Windows	25	03-Sep-19 A	18-Sep-19 A																										
SM 8 1340	Review and Approve Package Storefront Windows	25	19-Sep-19 A	02-Oct-19 A																										
SM 8 1350	Fabricate and Deliver Storefront Windows Frames	80	31-Oct-19 A	25-Mar-20	25																									
084113 Phase 2 Storefront Windows		114	03-Sep-19 A	25-Mar-20	25																									
SM 8 1390	Prepare and Submit Package Storefront Windows	25	03-Sep-19 A	18-Sep-19 A																										
SM 8 1400	Review and Approve Package Storefront Windows	25	19-Sep-19 A	02-Oct-19 A																										
SM 8 1410	Fabricate and Deliver Storefront Windows Frames	80	21-Oct-19 A	25-Mar-20	25																									
084113 Phase 1 Interior Storefront		102	01-Oct-19 A	25-Mar-20	37																									
SM 8 1300	Prepare and Submit Package Interior Storefronts	25	01-Oct-19 A	11-Oct-19 A																										
SM 8 1310	Review and Approve Package Interior Storefronts	5	14-Oct-19 A	18-Oct-19 A																										
SM 8 1320	Fabricate and Deliver Interior Storefront Frames	80	31-Oct-19 A	25-Mar-20	37																									
084113 Phase 2 Interior Storefront		130	02-Dec-19	04-Jun-20	218																									
SM 8 1360	Prepare and Submit Package Interior Storefronts	25	02-Dec-19*	07-Jan-20	218																									
SM 8 1370	Review and Approve Package Interior Storefronts	25	08-Jan-20	11-Feb-20	218																									
SM 8 1380	Fabricate and Deliver Interior Storefront Frames	80	12-Feb-20	04-Jun-20	218																									
084413 Glazed Aluminum Curtain Walls		132	15-Aug-19 A	01-Apr-20	20																									
SM 8 1030	Prepare and Submit Aluminum Curtain Wall Package	25	15-Aug-19 A	25-Sep-19 A																										
SM 8 1090	Review and Approve Curtain Wall Package	20	08-Oct-19 A	06-Nov-19 A																										
SM 8 1190	Fabricate and Deliver Curtain Wall	85	07-Nov-19 A	01-Apr-20	20																									
084413 Phase 2 Glazed Aluminum Curtain Walls		153	15-Aug-19 A	08-Apr-20	258																									
SM 8 1420	Prepare and Submit Aluminum Curtain Wall Package	25	15-Aug-19 A	25-Sep-19 A																										
SM 8 1430	Review and Approve Curtain Wall Package	20	08-Oct-19 A	06-Dec-19	258																									
SM 8 1440	Fabricate and Deliver Curtain Wall	85	09-Dec-19	08-Apr-20	258																									
087000 - Door Hardware		98	22-Oct-19 A	11-Mar-20	47																									

Project Schedule						Manchester Memorial Elementary School																				Attachment .			
Activity ID	Activity Name	Orig Dur	Start	Finish	Tot Float	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	Q4	
SM11 11	Prepare and Submit Package Gym Dividers	25	06-Feb-20	12-Mar-20	197																								
SM11 11	Review and Approve Package Gym Dividers	25	13-Mar-20	16-Apr-20	197																								
SM11 12	Fabricate and Deliver Gym Dividers	80	17-Apr-20	10-Aug-20	197																								
116813 - Play Equipment and Structures		130	06-Feb-20	10-Aug-20	280																								
SM11 12	Prepare and Submit Package Play Equipment and Structures	25	06-Feb-20	12-Mar-20	280																								
SM11 12	Review and Approve Package Play Equipment and Structures	25	13-Mar-20	16-Apr-20	280																								
SM11 12	Fabricate and Deliver Play Equipment and Structures	80	17-Apr-20	10-Aug-20	280																								
Division 12 - Furnishings		166	02-Dec-19	27-Jul-20	283																								
122413 - Window Shades		120	02-Dec-19	20-May-20	13																								
SM 12 12	Prepare and Submit Package Window Shades	30	02-Dec-19	14-Jan-20	13																								
SM 12 13	Review and Approve Package Window Shades	30	15-Jan-20	26-Feb-20	13																								
SM 12 16	Fabricate and Deliver Window Shades	60	27-Feb-20	20-May-20	13																								
123260 - Musical Storage cabinets		120	06-Feb-20	27-Jul-20	220																								
SM 12 19	Prepare and Submit Package Musical Storage Cabinets	30	06-Feb-20	19-Mar-20	220																								
SM 12 20	Review and Approve Package Musical Storage Cabinets	30	20-Mar-20	30-Apr-20	220																								
SM 12 21	Fabricate and Deliver Window Musical Storage Cabinets	60	01-May-20	27-Jul-20	220																								
123623 -Plastic Laminate Clad Countertops		100	02-Dec-19	22-Apr-20	36																								
SM 12 22	Prepare and Submit Package Plastic Laminate Countertops	20	02-Dec-19	30-Dec-19	36																								
SM 12 23	Review and Approve Package Plastic Laminate Countertops	20	31-Dec-19	28-Jan-20	36																								
SM 12 24	Fabricate and Deliver Window Plastic Laminate Countertops	60	29-Jan-20	22-Apr-20	36																								
124813 Entrance Floor Mats & Frames		90	02-Dec-19	08-Apr-20	33																								
SM 12 11	Prepare and Submit Package Floor Mats	25	02-Dec-19	07-Jan-20	33																								
SM 12 15	Review and Approve Package Floor Mats	25	08-Jan-20	11-Feb-20	33																								
SM 12 18	Fabricate & Deliver Floor Mats	40	12-Feb-20	08-Apr-20	33																								
124816 Entrance Floor Grilles		90	02-Dec-19	08-Apr-20	35																								
SM 12 31	Prepare and Submit Package Floor Mats	25	02-Dec-19	07-Jan-20	35																								
SM 12 32	Review and Approve Package Floor Mats	25	08-Jan-20	11-Feb-20	35																								
SM 12 33	Fabricate & Deliver Floor Mats	40	12-Feb-20	08-Apr-20	35																								
126600 - Telescoping Bleachers		100	06-Feb-20	26-Jun-20	227																								
SM 12 34	Prepare and Submit Package Teles coping Bleachers	20	06-Feb-20	05-Mar-20	227																								
SM 12 35	Review and Approve Package Telescoping Bleachers	20	06-Mar-20	02-Apr-20	227																								
SM 12 36	Fabricate and Deliver Teles coping Bleachers	60	03-Apr-20	26-Jun-20	227																								
129300 - Site Furnishings		100	06-Feb-20	26-Jun-20	303																								
SM 12 37	Prepare and Submit Package Site Furnishings	20	06-Feb-20	05-Mar-20	303																								

Project Schedule

Activity ID

Activity Name

Orig Dur

Start

Finish

Tot Float

SM21 10

Prepare and Submit Package Fire Dept Connections

10

22-Oct-19 A

13-Nov-19 A

SM21 10

Review and Approve Fire Dept Connections

10

14-Nov-19 A

27-Nov-19 A

SM21 10

Fab & Deliver Fire Dept Connections

25

29-Nov-19 A

07-Jan-20

31

Fire Standpipe Equipment

52

22-Oct-19 A

07-Jan-20

31

SM21 10

Prepare and Submit Package Fire Standpipe Equip

10

22-Oct-19 A

13-Nov-19 A

SM21 10

Review and Approve Fire Standpipe Equip

10

14-Nov-19 A

27-Nov-19 A

SM21 10

Fab & Deliver Fire Standpipe Equip

25

29-Nov-19 A

07-Jan-20

31

Roof Manifold

52

22-Oct-19 A

07-Jan-20

31

SM21 10

Prepare and Submit Package Roof Manifold

10

22-Oct-19 A

13-Nov-19 A

SM21 11

Review and Approve Roof Manifold

10

14-Nov-19 A

27-Nov-19 A

SM21 11

Fab & Deliver Roof Manifold

25

29-Nov-19 A

07-Jan-20

31

Fire Dept Hydrant Connection

52

22-Oct-19 A

07-Jan-20

31

SM21 11

Prepare and Submit Package Fire Dept Hydrant Connection

10

22-Oct-19 A

13-Nov-19 A

SM21 11

Review and Approve Fire Dept Hydrant Connection

10

14-Nov-19 A

27-Nov-19 A

SM21 11

Fab & Deliver Fire Dept Hydrant Connection

25

29-Nov-19 A

07-Jan-20

31

Supplementary Steel Channels & Supports

52

22-Oct-19 A

07-Jan-20

31

SM21 11

Prepare and Submit Package Steel Channels & Supports

10

22-Oct-19 A

13-Nov-19 A

SM21 11

Review and Approve Steel Channels & Supports

10

14-Nov-19 A

27-Nov-19 A

SM21 11

Fab & Deliver Steel Channels & Supports

25

29-Nov-19 A

07-Jan-20

31

Hangers & Seismic Restraints

42

22-Oct-19 A

20-Dec-19

41

SM 21 110

Prepare and Submit Package Hangers

10

22-Oct-19 A

13-Nov-19 A

SM 21 190

Review and Approve Package Hangers

10

14-Nov-19 A

27-Nov-19 A

SM 21 260

Fabricate and Deliver Fire Protection Hangers & Seismic Restraints

15

29-Nov-19 A

20-Dec-19

41

Alarm Devices

52

22-Oct-19 A

07-Jan-20

31

SM21 11

Prepare and Submit Package Alarm Devices

10

22-Oct-19 A

13-Nov-19 A

SM21 11

Review and Approve Alarm Devices

10

14-Nov-19 A

27-Nov-19 A

SM21 12

Fab & Deliver Alarm Devices

25

29-Nov-19 A

07-Jan-20

31

Double Check Valve

52

22-Oct-19 A

07-Jan-20

31

SM21 12

Prepare and Submit Package Double Check Valves

10

22-Oct-19 A

13-Nov-19 A

SM21 12

Review and Approve Double Check Valves

10

14-Nov-19 A

27-Nov-19 A

SM21 12

Fab & Deliver Double Check Valves

25

29-Nov-19 A

07-Jan-20

31

Access Panels

52

22-Oct-19 A

20-Dec-19

41

SM 21 100

Prepare and Submit Package Access Panels

15

22-Oct-19 A

20-Nov-19 A

SM 21 170

Review and Approve Access Panels

15

21-Nov-19 A

12-Dec-19 A

SM 21 230

Fab & Deliver Access Panels

15

13-Dec-19 A

20-Dec-19

41

Air Compressor

52

22-Oct-19 A

07-Jan-20

31

SM21 12

Prepare and Submit Package Air Compressor

10

22-Oct-19 A

13-Nov-19 A

SM21 12

Review and Approve Air Compressor

10

14-Nov-19 A

27-Nov-19 A

SM21 12

Fab & Deliver Air Compressor

25

29-Nov-19 A

07-Jan-20

31

Division 22 - Plumbing

92

22-Oct-19 A

04-Mar-20

53

Pipe Fittings

52

22-Oct-19 A

06-Jan-20 A

SM 22 10

Prepare and Submit Package Pipe

10

22-Oct-19 A

13-Nov-19 A

SM 22 26

Review and Approve Package Pipe

10

14-Nov-19 A

27-Nov-19 A

SM 22 40

Fabricate and Deliver Plumbing Pipe

25

29-Nov-19 A

06-Jan-20 A

Joints

52

22-Oct-19 A

06-Jan-20 A

SM22 100

Prepare and Submit Package Joints

10

22-Oct-19 A

13-Nov-19 A

SM22 101

Review and Approve Package Joints

10

14-Nov-19 A

27-Nov-19 A

SM22 102

Fabricate and Deliver Plumbing Joints

25

29-Nov-19 A

06-Jan-20 A

Valves

52

22-Oct-19 A

06-Jan-20 A

SM22 103

Prepare and Submit Package Valves

10

22-Oct-19 A

13-Nov-19 A

SM22 104

Review and Approve Package Valves

10

14-Nov-19 A

27-Nov-19 A

SM22 105

Fabricate and Deliver Plumbing Valves

25

29-Nov-19 A

06-Jan-20 A

Insulation

47

22-Oct-19 A

27-Dec-19

15

SM 22 13

Prepare and Submit Package Insulation

15

22-Oct-19 A

20-Nov-19 A

SM 22 37

Review and Approve Package Insulation

15

21-Nov-19 A

12-Dec-19 A

SM 22 55

Fabricate and Deliver Plumbing Insulation

19

02-Dec-19

27-Dec-19

15

Traps

52

22-Oct-19 A

06-Jan-20

10

SM22 106

Prepare and Submit Package Traps

10

22-Oct-19 A

13-Nov-19 A

SM22 107

Review and Approve Package Traps

10

14-Nov-19 A

27-Nov-19 A

SM22 108

Fabricate and Deliver Plumbing Traps

25

29-Nov-19 A

06-Jan-20

10

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

Q4

Q1

Q2

Q3

Q4

Prepare and Submit Package Fire Dept Connections

Review and Approve Fire Dept Connections

Fab & Deliver Fire Dept Connections

Prepare and Submit Package Fire Standpipe Equip

Review and Approve Fire Standpipe Equip

Fab & Deliver Fire Standpipe Equip

Prepare and Submit Package Roof Manifold

Review and Approve Roof Manifold

Fab & Deliver Roof Manifold

Prepare and Submit Package Fire Dept Hydrant Connection

Review and Approve Fire Dept Hydrant Connection

Fab & Deliver Fire Dept Hydrant Connection

Prepare and Submit Package Steel Channels & Supports

Review and Approve Steel Channels & Supports

Fab & Deliver Steel Channels & Supports

Prepare and Submit Package Hangers

Review and Approve Package Hangers

Fabricate and Deliver Fire Protection Hangers & Seismic Restraints

Prepare and Submit Package Alarm Devices

Review and Approve Alarm Devices

Fab & Deliver Alarm Devices

Prepare and Submit Package Double Check Valves

Review and Approve Double Check Valves

Fab & Deliver Double Check Valves

Prepare and Submit Package Access Panels

Review and Approve Access Panels

Fab & Deliver Access Panels

Prepare and Submit Package Air Compressor

Review and Approve Air Compressor

Fab & Deliver Air Compressor

Prepare and Submit Package Pipe

Review and Approve Package Pipe

Fabricate and Deliver Plumbing Pipe

Prepare and Submit Package Joints

Review and Approve Package Joints

Fabricate and Deliver Plumbing Joints

Prepare and Submit Package Valves

Review and Approve Package Valves

Fabricate and Deliver Plumbing Valves

Prepare and Submit Package Insulation

Review and Approve Package Insulation

Fabricate and Deliver Plumbing Insulation

Prepare and Submit Package Traps

Review and Approve Package Traps

Fabricate and Deliver Plumbing Traps

Manchester Memorial Elementary School

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W.T. RICH COMPANY, INC.

Project Schedule						Manchester Memorial Elementary School																				Attachment .			
Activity ID	Activity Name	Orig Dur	Start	Finish	Tot Float	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	Q4	
	Drain Valves	52	22-Oct-19 A	07-Jan-20	9																								
	SM22 109 Prepare and Submit Package Drain Valves	10	22-Oct-19 A	13-Nov-19 A																									
	SM22 110I Review and Approve Package Drain Valves	10	14-Nov-19 A	27-Nov-19 A																									
	SM22 111I Fabricate and Deliver Plumbing Drain Valves	25	29-Nov-19 A	07-Jan-20	9																								
	Shock Absorbers	52	22-Oct-19 A	06-Jan-20	10																								
	SM22 112I Prepare and Submit Package Shock Absorbers	10	22-Oct-19 A	13-Nov-19 A																									
	SM22 113I Review and Approve Package Shock Absorbers	10	14-Nov-19 A	27-Nov-19 A																									
	SM22 114I Fabricate and Deliver Plumbing Shock Absorbers	25	29-Nov-19 A	06-Jan-20	10																								
	Piping Accessories	52	22-Oct-19 A	06-Jan-20	10																								
	SM22 115I Prepare and Submit Package Piping Accessories	10	22-Oct-19 A	13-Nov-19 A																									
	SM22 116I Review and Approve Package Piping Accessories	10	14-Nov-19 A	27-Nov-19 A																									
	SM22 117I Fabricate and Deliver Plumbing Piping Accessories	25	29-Nov-19 A	06-Jan-20	10																								
	Hose Bibbs & Wall Hydrants	52	22-Oct-19 A	06-Jan-20	10																								
	SM 22 17 Prepare and Submit Package Hose Bibbs	15	22-Oct-19 A	20-Nov-19 A																									
	SM 22 30 Review and Approve Package Hose Bibbs	15	21-Nov-19 A	12-Dec-19 A																									
	SM 22 46 Fabricate and Deliver Plumbing Hose Bibbs	15	13-Dec-19 A	06-Jan-20	10																								
	Cleanouts	52	22-Oct-19 A	06-Jan-20	10																								
	SM 22 19 Prepare and Submit Package Cleanouts	15	22-Oct-19 A	20-Nov-19 A																									
	SM 22 32 Review and Approve Package Cleanouts	15	21-Nov-19 A	12-Dec-19 A																									
	SM 22 48 Fabricate and Deliver Plumbing Cleanouts	15	13-Dec-19 A	06-Jan-20	10																								
	Access Panels & Covers	52	22-Oct-19 A	06-Jan-20	10																								
	SM 22 18 Prepare and Submit Package Access Panels	15	22-Oct-19 A	20-Nov-19 A																									
	SM 22 31 Review and Approve Package Access Panels	15	21-Nov-19 A	12-Dec-19 A																									
	SM 22 47 Fabricate and Deliver Plumbing Access Panels	15	13-Dec-19 A	06-Jan-20	10																								
	Steel Channels & Supports	52	22-Oct-19 A	06-Jan-20	10																								
	SM22 118I Prepare and Submit Package Steel Channels & Supportd	10	22-Oct-19 A	13-Nov-19 A																									
	SM22 119I Review and Approve Package Steel Channels & Supportd	10	14-Nov-19 A	27-Nov-19 A																									
	SM22 120I Fabricate and Deliver Plumbing Steel Channels & Supportd	25	29-Nov-19 A	06-Jan-20	10																								
	Hangers, Anchors, Guides, Supports	52	22-Oct-19 A	06-Jan-20	10																								
	SM 22 12 Prepare and Submit Package Hangers	15	22-Oct-19 A	20-Nov-19 A																									
	SM 22 27 Review and Approve Package Hangers	15	21-Nov-19 A	12-Dec-19 A																									
	SM 22 42 Fabricate and Deliver Plumbing Hangers	15	13-Dec-19 A	06-Jan-20	10																								
	Floor Drains	52	22-Oct-19 A	06-Jan-20	10																								
	SM 22 16 Prepare and Submit Drains	15	22-Oct-19 A	20-Nov-19 A																									
	SM 22 29 Review and Approve Package Drains	15	21-Nov-19 A	12-Dec-19 A																									
	SM 22 45 Fabricate and Deliver Roof & Floor Drain	15	13-Dec-19 A	06-Jan-20	10																								
	Fixtures	82	22-Oct-19 A	19-Feb-20	63																								
	SM 22 11I Prepare and Submit Package Plumbing Fixtures	20	22-Oct-19 A	27-Nov-19 A																									
	SM 22 41 Review and Approve Package Plumbing Fixtures	15	29-Nov-19 A	19-Dec-19 A																									
	SM 22 56 Fabricate and Deliver Plumbing Fixtures	40	20-Dec-19 A	19-Feb-20	63																								
	Backflow Preventers	52	22-Oct-19 A	06-Jan-20	10																								
	SM22 121I Prepare and Submit Package Backflow Preventers	10	22-Oct-19 A	13-Nov-19 A																									
	SM22 122 Review and Approve Package Backflow Preventers	10	14-Nov-19 A	27-Nov-19 A																									
	SM22 123 Fabricate and Deliver Plumbing Backflow Preventers	25	29-Nov-19 A	06-Jan-20	10																								
	Unions & Nipples	47	22-Oct-19 A	27-Dec-19	15																								
	SM22 124 Prepare and Submit Package Unions & Nipples	10	22-Oct-19 A	13-Nov-19 A																									
	SM22 125 Review and Approve Package Unions & Nipples	10	14-Nov-19 A	27-Nov-19 A																									
	SM22 126 Fabricate and Deliver Plumbing Unions & Nipples	20	29-Nov-19 A	27-Dec-19	15																								
	Water Heaters	77	22-Oct-19 A	10-Feb-20	41																								
	SM22 127 Prepare and Submit Package Water Heaters	20	22-Oct-19 A	27-Nov-19 A																									
	SM22 128 Review and Approve Package Water Heaters	20	29-Nov-19 A	27-Dec-19 A																									
	SM22 129 Fabricate and Deliver Plumbing water Heaters	30	30-Dec-19 A	10-Feb-20	41																								
	Non-potable Water Heater	77	22-Oct-19 A	10-Feb-20	41																								
	SM22 130 Prepare and Submit Package Non-potable Water Heater	20	22-Oct-19 A	27-Nov-19 A																									
	SM22 131 Review and Approve Package Non-potable Water Heater	20	29-Nov-19 A	27-Dec-19 A																									
	SM22 132 Fabricate and Deliver Plumbing Non-potable Water Heater	30	30-Dec-19 A	10-Feb-20	41																								
	Sump Pump Systems	67	22-Oct-19 A	27-Jan-20	51																								
	SM22 133 Prepare and Submit Package Sump Pump System	20	22-Oct-19 A	27-Nov-19 A																									
	SM22 134 Review and Approve Package Sump Pump System	20	29-Nov-19 A	27-Dec-19 A																									
	SM22 135 Fabricate and Deliver Plumbing Sump Pump System	20	30-Dec-19 A	27-Jan-20	51																								
<div><div></div> Summary</div> <div><div></div> Remaining Work</div> <div><div></div> Critical Remaining Work</div> <div><div></div> Milestone</div> <div><div></div> Critical Milestone</div>						Manchester Memorial Elementary School Page 12 of 28										W.T. RICH COMPANY, INC.													

Project Schedule

Activity ID	Activity Name	Orig Dur	Start	Finish	Tot Float	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	Q4

SM23 110	Fabricate and Deliver Air Outlets & Inlets	30	23-Dec-19	04-Feb-20	106																						
	Acoustic Duct Lining	32	22-Oct-19 A	13-Dec-19	34																						
SM23 112	Prepare and Submit Package - Acoustical Duct Lining	15	22-Oct-19 A	08-Nov-19 A																							
SM23 113	Review and Approve Package - Acoustical Duct Lining	15	31-Oct-19 A	20-Nov-19 A																							
SM23 114	Fabricate and Deliver HVAC Acoustical Duct Lining	10	21-Nov-19 A	13-Dec-19	34																						
	Sound Attenuators	37	22-Oct-19 A	07-Jan-20	19																						
SM 23 25	Prepare and Submit Package - Sound Attenuators	10	22-Oct-19 A	08-Nov-19 A																							
SM 23 34	Review and Approve Package - Sound Attenuators	10	31-Oct-19 A	13-Nov-19 A																							
SM 23 53	Fabricate and Deliver HVAC Sound Attenuators	20	14-Nov-19 A	07-Jan-20	19																						
	Condensate Discharge Pumps	58	22-Oct-19 A	14-Jan-20	60																						
SM 23 14	Prepare and Submit Package - Condensate Discharge Pumps	20	22-Oct-19 A	27-Nov-19 A																							
SM 23 38	Review and Approve Package - Condensate Discharge Pumps	20	29-Nov-19 A	27-Dec-19 A																							
SM 23 57	Fabricate and Deliver HVAC Condensate Discharge Pumps	30	02-Dec-19	14-Jan-20	60																						
	Firestop Systems	53	22-Oct-19 A	07-Jan-20	19																						
SM 23 26	Prepare and Submit Package - Firestop Systems	10	22-Oct-19 A	08-Nov-19 A																							
SM 23 35	Review and Approve Package - Firestop Systems	10	31-Oct-19 A	13-Nov-19 A																							
SM 23 54	Fabricate and Deliver HVAC Firestop Systems	25	02-Dec-19	07-Jan-20	19																						
	Automatic Temperature Controls	68	22-Oct-19 A	28-Jan-20	24																						
SM 23 22	Prepare and Submit Package ATCs	10	22-Oct-19 A	13-Dec-19	24																						
SM 23 30	Review and Approve Package ATCs	10	16-Dec-19	30-Dec-19	24																						
SM 23 50	Fabricate and Deliver ATCs	20	31-Dec-19	28-Jan-20	24																						
	Testing, Adjusting, Balancing, Cx	55	02-Dec-19	19-Feb-20	84																						
SM23 115	Prepare and Submit Package - Testing, Adjusting, Balancing, Cx	15	02-Dec-19	20-Dec-19	84																						
SM23 116	Review and Approve Package - Testing, Adjusting, Balancing, Cx	15	23-Dec-19	14-Jan-20	84																						
SM23 117	Fabricate and Deliver HVAC Testing, Adjusting, Balancing, Cx	25	15-Jan-20	19-Feb-20	84																						
	230548 - Vibratory Controls	53	22-Oct-19 A	07-Jan-20	39																						
SM23 118	Prepare and Submit Package - Vibratory & Seismic Controls	15	22-Oct-19 A	07-Nov-19 A																							
SM23 119	Review and Approve Package - Vibratory & Seismic Controls	15	31-Oct-19 A	20-Nov-19 A																							
SM23 120	Fabricate and Deliver HVAC Vibratory & Seismic Controls	25	02-Dec-19	07-Jan-20	39																						
	Division 26 - Electrical	174	15-Aug-19 A	25-Mar-20	34																						
	Raceways & Fittings	43	22-Oct-19 A	20-Dec-19	39																						
SM 26 900	Prepare and Submit Package Raceways & Fittings	20	22-Oct-19 A	27-Nov-19 A																							
SM 26 920	Review and Approve Package Raceways & Fittings	15	29-Nov-19 A	19-Dec-19 A																							
SM 26 940	Fabricate and Deliver Raceways & Fittings	15	02-Dec-19	20-Dec-19	39																						
	Conductors	43	22-Oct-19 A	20-Dec-19	39																						
SM26 100	Prepare and Submit Package Conductors	20	22-Oct-19 A	27-Nov-19 A																							
SM26 101	Review and Approve Package Conductors	15	29-Nov-19 A	19-Dec-19 A																							
SM26 102	Fabricate and Deliver Conductors	15	02-Dec-19	20-Dec-19	39																						
	Access Panels	43	22-Oct-19 A	20-Dec-19	39																						
SM 26 910	Prepare and Submit Package Access Panels	20	22-Oct-19 A	27-Nov-19 A																							
SM 26 930	Review and Approve Package Access Panels	15	29-Nov-19 A	19-Dec-19 A																							
SM 26 950	Fabricate and Deliver Access Panels	15	02-Dec-19	20-Dec-19	39																						
	Sleeves, Inserts, Openings	23	22-Oct-19 A	21-Nov-19 A																							
SM 26 100	Prepare and Submit Package Sleeves, Inserts	15	22-Oct-19 A	11-Nov-19 A																							
SM 26 110	Review and Approve Package Sleeves, Inserts	5	12-Nov-19 A	18-Nov-19 A																							
SM 26 120	Fabricate and Deliver Sleeves, Inserts	3	19-Nov-19 A	21-Nov-19 A																							
	Wiring Devices	43	22-Oct-19 A	20-Dec-19	39																						
SM 26 19	Prepare and Submit Package Wiring Devices	20	22-Oct-19 A	27-Nov-19 A																							
SM 26 24	Review and Approve Package Wiring Devices	15	29-Nov-19 A	19-Dec-19 A																							
SM 26 36	Fabricate and Deliver Electrical Wiring Devices	15	02-Dec-19	20-Dec-19	39																						
	Lighting Fixtures	91	22-Oct-19 A	02-Mar-20	51																						
SM 26 13	Prepare and Submit Package Light Fixtures	20	22-Oct-19 A	27-Nov-19 A																							
SM 26 25	Review and Approve Package Light Fixtures	15	29-Nov-19 A	20-Dec-19	51																						
SM 26 37	Fabricate & Deliver Lighting Fixtures	48	23-Dec-19	02-Mar-20	51																						
	Electric Power Equipment	58	22-Oct-19 A	14-Jan-20	14																						
SM26 103	Prepare and Submit Package Electrical Power Equipment	15	22-Oct-19 A	20-Nov-19 A																							
SM26 104	Review and Approve Package Electrical Power Equipment	15	21-Nov-19 A	12-Dec-19 A																							
SM26 105	Fabricate & Deliver Dry Type Electrical Power Equipment	30	02-Dec-19	14-Jan-20	14																						
	Electrical Controls & Instrumentents	63	22-Oct-19 A	21-Jan-20	19																						
SM26 106	Prepare and Submit Package Electrical Controls & Instruments	20	22-Oct-19 A	29-Nov-19 A																						</	

Project Schedule						Manchester Memorial Elementary School																						Attachment
Activity ID	Activity Name	Orig Dur	Start	Finish	Tot Float	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	Q4
	SM 32 50 Fabricate & Deliver Fencing	30	27-Mar-20	07-May-20	267																							
	324510 Guardrails	65	06-Feb-20	07-May-20	285																							
	SM 32 51 Prepare and Submit Package Guardrails	20	06-Feb-20	05-Mar-20	285																							
	SM 32 52 Review and Approve Package Guardrails	15	06-Mar-20	26-Mar-20	285																							
	SM 32 53 Fabricate & Deliver Guardrails	30	27-Mar-20	07-May-20	285																							
	329200 Turfs & grasses	35	06-Feb-20	26-Mar-20	297																							
	SM 23211 Prepare and Submit Package Turfs & Grasses	20	06-Feb-20	05-Mar-20	297																							
	SM 23212 Review and Approve Package Turfs & Grasses	15	06-Mar-20	26-Mar-20	297																							
	329300 Plants	70	06-Feb-20	14-May-20	262																							
	SM 23217 Prepare and Submit Package Plants	15	06-Feb-20	27-Feb-20	262																							
	SM 23218 Review and Approve Package Plants	25	28-Feb-20	02-Apr-20	262																							
	SM 23219 Select and Deliver Plantings	30	03-Apr-20	14-May-20	262																							
	Division 33 - Utilities	139	01-Jul-19 A	02-Dec-19	509																							
	331000 Water Systems	48	01-Jul-19 A	30-Sep-19 A																								
	SM33 100 Prepare and Submit Package Water Systems	20	01-Jul-19 A	26-Jul-19 A																								
	SM33 101 Review and Approve Package Water Systems	20	01-Aug-19 A	28-Aug-19 A																								
	SM33 102 Fabricate and Deliver Sanitary Water Systems	20	29-Aug-19 A	30-Sep-19 A																								
	333000 Sanitary Sewer Utilities (Piping for temp)	21	01-Jul-19 A	30-Jul-19 A																								
	SM33 103 Prepare and Submit Package Sanitary Sewer Piping	5	01-Jul-19 A	08-Jul-19 A																								
	SM33 104 Review and Approve Package Sanitary Sewer Piping	6	09-Jul-19 A	16-Jul-19 A																								
	SM33 105 Fabricate and Deliver Sanitary Sewer Utilities Piping	10	17-Jul-19 A	30-Jul-19 A																								
	333000 Sanitary Sewer Utilities	59	01-Jul-19 A	23-Sep-19 A																								
	SM33 106 Prepare and Submit Package Sanitary Sewer	20	01-Jul-19 A	29-Jul-19 A																								
	SM33 107 Review and Approve Package Sanitary Sewer	20	01-Aug-19 A	28-Aug-19 A																								
	SM33 108 Fabricate and Deliver Sanitary Sewer Utilities	15	03-Sep-19 A	23-Sep-19 A																								
	334000 Storm Drainage Utilities	99	01-Jul-19 A	02-Dec-19	509																							
	SM 33 12 Prepare and Submit Package Storm Drainage	20	01-Jul-19 A	29-Jul-19 A																								
	SM 33 15 Review and Approve Package Storm Drainage	20	01-Aug-19 A	02-Dec-19	509																							
	SM 33 18 Fabricate and Deliver Storm Drainage Utilities	20	22-Oct-19 A	18-Nov-19 A																								
	334000 Storm Drainage Utilities (Structures)	139	01-Jul-19 A	31-Oct-19 A																								
	SM 33 19 Prepare and Submit Package Storm Drainage	20	01-Jul-19 A	29-Jul-19 A																								
	SM 33 20 Review and Approve Package Storm Drainage	35	01-Aug-19 A	13-Sep-19 A																								
	SM 33 21 Fabricate and Deliver Storm Drainage Utilities	60	22-Oct-19 A	31-Oct-19 A																								
	MEP Coordination	41	15-Oct-19 A	30-Dec-19	34																							
	MEP 140 MEP Coordination Kick Off Meeting	1	15-Oct-19 A	15-Oct-19 A																								
	MEP 100 MEP Coordination - Underslab and Verticals	6	01-Nov-19 A	08-Nov-19 A																								
	MEP 110 MEP Coordination 2nd Floor	20	01-Nov-19 A	02-Dec-19 A																								
	MEP 130 MEP Coordination Roof	15	15-Nov-19 A	15-Nov-19 A																								
	MEP 120 MEP Coordination 1st Floor	20	02-Dec-19	30-Dec-19	34																							
	Construction	0			0																							
	Phase 1 - New Classroom Wing	426	01-Mar-19 A	30-Oct-20	275																							
	Mobilization	49	17-Jun-19 A	04-Sep-19 A																								
	MOB 100 Mobilization	0	17-Jun-19 A																									
	MOB 150 Install Access Roads, Erosions Controls, Fencing	15	19-Jun-19 A	12-Jul-19 A																								
	MOB 180 Strip Top Soil (Test & Haul Off Site) & Clear / Grub Site	30	12-Jul-19 A	26-Jul-19 A																								
	MOB 110 Temporary Work for Admin Offices at Pre-K & Install Temp Signage	5	05-Aug-19 A	30-Aug-19 A																								
	MOB 170 Building & Fire Dept Inspections	3	12-Aug-19 A	14-Aug-19 A																								
	MOB 120 Temporary Certificate of Occupancy for Existing Building (Sign-off by AHJ)	5	15-Aug-19 A	21-Aug-19 A																								
	MOB 130 Relocate Furniture, Students	5	15-Aug-19 A	21-Aug-19 A																								
	MOB 160 Install Trailers, Temporary Utilities, Laydown Areas	5	19-Aug-19 A	04-Sep-19 A																								
	MOB 190 New ADA Compliant Access to Pre-K & Asphalt Playground / Fencing / R	8	22-Aug-19 A	30-Aug-19 A																								
	MOB 140 Ready for School Year 2019/2020 (PD days)	0		22-Aug-19 A																								
	Site Utilities	279	01-Mar-19 A	03-Apr-20	18																							
	1SU 150 N-Grid Work Order/Design - gas	120	01-Mar-19 A	20-Mar-20	18																							
	1SU 160 N-Grid Work Order/Design - electric	120	01-Mar-19 A	09-Dec-19	17																							
	1SU 210 N-Grid Work Order/Design - temporary Electric	40	03-May-19 A	20-Aug-19 A																								
	1SU 200 Install Sanitary Sewer Bypass	3	22-Jul-19 A	24-Jul-19 A																								
	1SU 220 Install Electrical Duct Bank and Manholes	15	20-Aug-19 A	20-Dec-19	8																							
	1SU 230 Install Electrical Ductbank in Drop off Loop (Summer Work)	10	20-Aug-19 A	27-Aug-19 A																								

Project Schedule						Manchester Memorial Elementary School																				Attachment .			
Activity ID	Activity Name	Orig Dur	Start	Finish	Tot Float	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	Q4	
1SU 100	Install New Water Service	10	10-Oct-19 A	25-Oct-19 A		Install New Water Service																							
1SU 120	Install New Sanitary Main/Replace Existing Sewer Manhole	10	02-Dec-19*	13-Dec-19	22	Install New Sanitary Main/Replace Existing Sewer Manhole																							
1SU 140	Scheduling Period / Install new electrical service, pole, & transformer - tied	50	23-Dec-19	04-Mar-20	8	Scheduling Period / Install new electrical service, pole, & transformer - tied to 1SU 160 Work Order & Duct Bank																							
1SU 130	Install Temp Storm Drainage tie in	20	08-Jan-20*	04-Feb-20	34	Install Temp Storm Drainage tie in																							
1SU 110	Install new gas service	10	23-Mar-20	03-Apr-20	18	Install new gas service																							
Demolition - Southwest Wing		23	14-Jun-19 A	27-Jul-19 A																									
1DEM 105	End of School 2019/SW Wing Vacated	0	14-Jun-19 A			End of School 2019/SW Wing Vacated																							
1DEM 120	Set Up Containment	5	17-Jun-19 A	21-Jun-19 A		Set Up Containment																							
1DEM 130	Conduct Abatement/Air Clearance/Break down Containment	8	17-Jun-19 A	26-Jun-19 A		Conduct Abatement/Air Clearance/Break down Containment																							
1DEM 110	Cut,Cap, Make-Safe/Selective Demolition	2	17-Jun-19 A	26-Jun-19 A		Cut,Cap, Make-Safe/Selective Demolition																							
1DEM 190	Demolish and Remove Building & Foundation - Backfill. Rough Grade	15	26-Jun-19 A	12-Jul-19 A		Demolish and Remove Building & Foundation - Backfill. Rough Grade																							
1DEM 170	Install Temporary Structural Supports & Separate from Existing Building	5	28-Jun-19 A	01-Jul-19 A		Install Temporary Structural Supports & Separate from Existing Building																							
1DEM 200	Install Temporary Partions, Infill Foundation (Waterproof), and Roofing at E:	10	01-Jul-19 A	27-Jul-19 A		Install Temporary Partions, Infill Foundation (Waterproof), and Roofing at Existing Building																							
Superstructure		115	15-Jul-19 A	24-Dec-19	12																								
1SS100	Grade Site for Ground Improvements	15	15-Jul-19 A	02-Aug-19 A		Grade Site for Ground Improvements																							
1SS110	Install Ground Improvments	15	05-Aug-19 A	28-Aug-19 A		Install Ground Improvments																							
1SS130	Excavate for Foundations	20	27-Aug-19 A	23-Sep-19 A		Excavate for Foundations																							
1SS120	Ready for Foundations	0	28-Aug-19 A			Ready for Foundations																							
1SS140	Form & Place Footings	10	28-Aug-19 A	23-Sep-19 A		Form & Place Footings																							
1SS270	Schedule Impact Items to Foundations: CCD#001 CL #10 Dimension Bust / Weather Delays	2	29-Aug-19 A	03-Sep-19 A		Schedule Impact Items to Foundations: CCD#001 CL #10 Dimension Bust / Weather Delays																							
1SS260	Form & Place Iso Piers & Pilasters	20	03-Sep-19 A	23-Sep-19 A		Form & Place Iso Piers & Pilasters																							
1SS150	Form & Place Foundation Walls	25	03-Sep-19 A	27-Sep-19 A		Form & Place Foundation Walls																							
1SS160	Insulate Foundations	5	16-Sep-19 A	03-Oct-19 A		Insulate Foundations																							
1SS190	Backfill Foundations	20	17-Sep-19 A	25-Oct-19 A		Backfill Foundations																							
1SS180	Waterproof Elevator Pit	5	30-Sep-19 A	04-Oct-19 A		Waterproof Elevator Pit																							
1SS170	Form & Place Elevator Pit	5	07-Oct-19 A	07-Oct-19 A		Form & Place Elevator Pit																							
1SS200	Foundations ready for Steel	0	28-Oct-19 A			Foundations ready for Steel																							
1SS210	Erect Structural Steel	8	28-Oct-19 A	22-Nov-19 A		Erect Structural Steel																							
1SS220	Install Steel Decking & Detailing	20	06-Nov-19 A	24-Dec-19	11	Install Steel Decking & Detailing																							
1SS240	Install CMU Stair and Elevator Shafts	10	02-Dec-19	13-Dec-19	19	Install CMU Stair and Elevator Shafts																							
1SS230	Strucutral Steel Complete	0		24-Dec-19	11	Strucutral Steel Complete																							
Slabs		36	14-Nov-19 A	07-Jan-20	484																								
1SL 110	Install Underslab MEPs	22	14-Nov-19 A	20-Dec-19	29	Install Underslab MEPs																							
1SL 140	Enclose Building for Winter Concrete	10	14-Nov-19 A	27-Nov-19 A		Enclose Building for Winter Concrete																							
1SL 100	Prep & Place Slab on Deck	5	21-Nov-19 A	27-Nov-19 A		Prep & Place Slab on Deck																							
1SL 160	Install Roof Slab	5	06-Dec-19	12-Dec-19	500	Install Roof Slab																							
1SL 130	Install Stair #1 Concrete-filled Treads	5	16-Dec-19	20-Dec-19	19	Install Stair #1 Concrete-filled Treads																							
1SL 150	Backfill, Prep	5	23-Dec-19	30-Dec-19	29	Backfill, Prep																							
1SL 120	Prep & Place Slab on Grade	5	31-Dec-19	07-Jan-20	29	Prep & Place Slab on Grade																							
Envelope		117	05-Dec-19	20-May-20	15																								
1EX 180	Roof Edge Framing	7	05-Dec-19	13-Dec-19	11	Roof Edge Framing																							
1EX 100	Install Exterior Framing & Sheathing	20	09-Dec-19	07-Jan-20	0	Install Exterior Framing & Sheathing																							
1EX 210	Overhang Spray Foam Insulation	2	06-Jan-20	07-Jan-20	29	Overhang Spray Foam Insulation																							
1EX 110	Install Air Vapor Barrier	20	07-Jan-20	03-Feb-20	0	Install Air Vapor Barrier																							
1EX 130	Install Temporary Weather Protection (for electrical rough in)	12	17-Jan-20	03-Feb-20	0	Install Temporary Weather Protection (for electrical rough in)																							
1EX 160	Install Masonry Finishes	40	04-Feb-20	31-Mar-20	10	Install Masonry Finishes																							
1EX 150	Install Storefront Entrances	20	09-Apr-20	06-May-20	4	Install Storefront Entrances																							
1EX 140	Install SF Windows, Curtainwalls	30	09-Apr-20	20-May-20	15	Install SF Windows, Curtainwalls																							
Roofing & Roof Mounted Items		119	02-Dec-19	19-May-20	32																								
1EX 190	Roof Blocking/Roof Drains/Mechanical Curbs/Roof Hatch	5	02-Dec-19	06-Dec-19	21	Roof Blocking/Roof Drains/Mechanical Curbs/Roof Hatch																							
1EX 120	Install Roofing System	15	16-Dec-19	07-Jan-20	11	Install Roofing System																							
1EX 170	Install HVAC Roof Top Units	10	02-Mar-20	13-Mar-20	7	Install HVAC Roof Top Units																							
1EX 200	Install Edge Metal & Sheet Metal Flashing	30	08-Apr-20	19-May-20	32	Install Edge Metal & Sheet Metal Flashing																							
Rough In		67	08-Jan-20	10-Apr-20	1																								
2nd Floor Rough In		53	08-Jan-20	23-Mar-20	5																								
1R2 100	Start Rough In	0	08-Jan-20		9	Start Rough In																							
1R2 120	Frame Interior Partitions	15	08-Jan-20	28-Jan-20	9	Frame Interior Partitions																							
1R2 110	Rough-in HVAC Ductwork & Piping	20	08-Jan-20	04-Feb-20	19	Rough-in HVAC Ductwork & Piping																							
1R2 150	Rough-in Fire Protection	10	15-Jan-20	28-Jan-20	26	Rough-in Fire Protection																							



W.T. Rich Company - Look Ahead Schedule

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Manchester Memorial Elementary School Project - 43 Lincoln Street, Manchester-by-the Sea 01944

						MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN				
						12/2	12/3	12/4	12/5	12/6	12/7	12/8	12/9	12/10	12/11	12/12	12/13	12/14	12/15	12/16	12/17	12/18	12/19	12/20	12/21	12/22	12/23	12/24	12/25	12/26	12/27	12/28	12/29				
Milestone/Activity Description						Responsibility	First Delivery	Initial Inspection	Start Date	End Date																											
								ED																													
Design / Owner Related Items																																					
Award Non Trade	SBC/AII			Complete	Complete																																
LOR - Priority Trade Award Authorization	SBC			Complete	Complete																																
NGrid Easement Form signed by Town	Selectmen			Complete	12/03/19																																
SBC Meeting - Full Approval of GMP	SBC/AII			TBD	TBD																																
Grading, Ground Improvements & Foundations																																					
Settlement Monitoring	JLM/Norgate			09/06/19	12/06/19																																
Concrete Retaining Walls (Stairs & HC Ramp) PCO# 14	JL Marshall			TBD	TBD																																
Phase 1 Construction - Exterior																																					
Chiller Dunnage	Stellar			12/06/19	12/13/19																																
2nd floor enclosure	WTR			11/12/19	12/06/19																																
Detailing after SOD and SOR	Stellar			12/12/19	12/13/19																																
CMU stair #1 & Elevator	Marmelo			12/04/19	12/17/19																																
Tie in RD North Elevations for temp RD's	UC/Amanti			TBC	TBC																																
Roof Edge LGMF	Manganaro			12/05/19	12/13/19																																
Second Floor Framing Layout	Manganaro			12/09/19	12/19/19																																
1st Floor Framing Layout	Manganaro			01/10/19	01/15/19																																
Sheathing & Window Protection	Manganaro			12/19/19	01/19/19																																
Roofing	Stanley Roofing			12/16/19	12/27/19																																
Phase 1 Construction - Interior																																					
Underground MEP Layout & Excavation Prep	MEP Sub / UC			11/12/19	11/26/19																																
Underground MEP's and Backfill	MEP Sub / UC			11/25/19	12/20/19																																
Sleeves for Penetrations	MEP Subs			11/20/19	12/13/19																																
Slab on Deck (TBC pending weather, holiday, coordination response)	JL Marshall			Complete	Complete																																
Slab on Roof	JL Marshall			12/09/19	12/11/19																																
Form & Pour concrete column Caps (Detail 5/S.002)	JL Marshall			01/02/20	01/10/20																																
Pour Stair #1	JL Marshall			12/16/19	01/02/20																																
Install & Inspect SOG VB	JL Marshall			12/23/19	12/27/19																																
Slab on Grade (Confirm w. Settlement Monitoring_	JL Marshall			01/02/20	01/10/20																																
Stair #1 Steel Install	Stellar			01/02/20	01/10/20																																
Utilities																																					
Install New Water Service PCO Fire service Valve	United Civil			TBC	TBC																																
Install SMH #6 (run parallel pipe)	United Civil			Complete	Complete																																
Install SMH #4	United Civil			Complete	Complete																																
Replace Existing SMH (coordinate with DPW) upstream from #4	United Civil			TBC	TBC																																
Install SMH #5, 3, 2, & 1	United Civil			12/09/19	12/24/19																																



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