



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

September 2019

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

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

SECTION 2 - PROJECT SCHEDULE UPDATE

Summary:

Our attached schedule update has a **data date of 9/30/19**, 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:

- Building Permit – Application submitted 9/26/19.

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

MILESTONE ACTIVITY	TARGET COMPLETION	ACTUAL COMPLETION DATE
Demolition & Abatement (Turnover to Site Contractor)	7/15/19	7/15/19
Grading complete for Ground Improvements (Turnover to GI Contractor)	8/5/19	8/5/19
Ground Improvements (Turnover for Excavation / Foundation Work)	8/26/19	8/26/19
Foundation System (Turnover for steel start)	10/28/19	
Structural Steel Erection, Decking & Detailing Complete	12/17/19	
Slab-on Deck Pours Complete	12/26/19	
Slab-on Grade Pours Complete	1/27/20	

October Look Ahead:

- Underground Utilities
 - Installation of Domestic and FP Waterlines to 10 feet from building.
 - Installation of Telcom & Electrical Ductbanks through Job site.
 - Sewer Manholes, Phase 2 Kitchen Grease Trap and Piping.
- Complete Elevator Pit and Waterproofing.
- Complete Backfilling.
- Anchor Bolt Asbuilts and Correction.
- Prep Working platforms for Crane.
- Crane Mobilization and Steel Delivery to start Steel Erection.

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

SECTION 2 – PROGRESS PHOTOS



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Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
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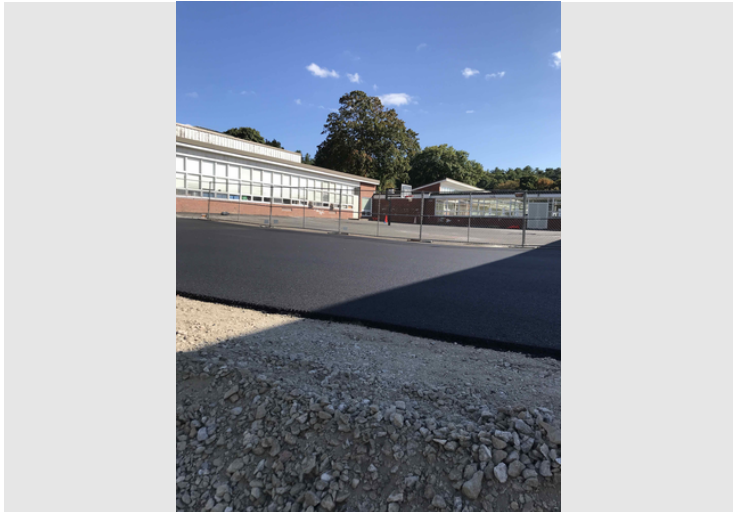
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Job #: 201802 Manchester Memorial Elementary School
43 Lincoln Street
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W.T. Rich Company



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W.T. Rich Company



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W.T. Rich Company



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43 Lincoln Street
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Description

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2019/09/05 11:36:53

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Rick Lawrence

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2019/09/06 07:25:19

File Name

[DSC01746.JPG](#)



Description

Taken Date

2019/09/04 12:10:27

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Rick Lawrence

Upload Date

2019/09/05 07:21:47

File Name

[DSC01737.JPG](#)



Description

Taken Date

2019/09/04 11:33:19

Uploaded By

Rick Lawrence

Upload Date

2019/09/05 07:21:46

File Name

[DSC01732.JPG](#)



W.T. Rich Company



Description

Taken Date

2019/09/04 10:14:57

Uploaded By

Rick Lawrence

Upload Date

2019/09/05 07:21:44

File Name

[DSC01729.JPG](#)



Description

Daily progress-September

Taken Date

2019/09/03 08:34:15

Uploaded By

Rick Lawrence

Upload Date

2019/09/04 07:48:33

File Name

[DSC01716.JPG](#)



Description

Daily progress-September

Taken Date

2019/09/03 08:10:18

Uploaded By

Rick Lawrence

Upload Date

2019/09/04 07:48:33

File Name

[DSC01715.JPG](#)



Description

Daily progress-September

Taken Date

2019/09/03 08:10:00

Uploaded By

Rick Lawrence

Upload Date

2019/09/04 07:48:19

File Name

[DSC01714.JPG](#)



W.T. Rich Company

Printed on Wed Oct 2, 2019 at 04:21 pm EDT

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



Description

Taken Date
2019/08/29 13:32:20

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Rick Lawrence

Upload Date
2019/08/30 07:37:58

File Name
[DSC01685.JPG](#)

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

SECTION 3 – ATTACHMENTS

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						1006	08-Feb-18 A	31-Jan-22	-39																								
Design and Preconstruction						516	08-Feb-18 A	24-Feb-20	451																								
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 & Descope	21	08-Mar-19 A	21-Jun-19 A		EP#1 Bid & Descope																											
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

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					
Division 03 - Concrete & Reinforcement						155	18-Jun-19 A	27-Jan-20	78																								
033000 Cast-In-Place Concrete						49	18-Jun-19 A	30-Aug-19 A	3																								
SM 3 1000	Prepare and Submit Concrete Package	15	18-Jun-19 A	22-Jul-19 A		Prepare and Submit Concrete Package																											
SM 3 1010	Review and Approve Concrete Package	15	18-Jul-19 A	02-Aug-19 A		Review and Approve Concrete Package																											
SM 3 1020	Fabricate & Deliver Steel Reinforcement	15	05-Aug-19 A	30-Aug-19 A		Fabricate & Deliver Steel Reinforcement																											
033543 Polished Concrete Finishes						75	09-Oct-19	27-Jan-20	78																								
Division 04 - Masonry						119	03-Sep-19 A	21-Feb-20	3																								
042613 - Masonry Veneer						90	16-Sep-19 A	23-Jan-20	23																								
SM04 100	Prepare and Submit Package Masonry Veneer	20	16-Sep-19 A	23-Sep-19 A		Prepare and Submit Package Masonry Veneer																											
SM04 101	Review and Approve Package Masonry Veneer	15	30-Sep-19	18-Oct-19	23	Review and Approve Package Masonry Veneer																											
SM04 102	Fabricate and Deliver Masonry Veneer	65	21-Oct-19	23-Jan-20	23	Fabricate and Deliver Masonry Veneer																											
042613 - Concrete Masonry Units						69	03-Sep-19 A	10-Dec-19	20																								
SM04 103	Prepare and Submit Package CMU	20	03-Sep-19 A	30-Sep-19 A		Prepare and Submit Package CMU																											
SM04 104	Review and Approve Package CMU	20	30-Sep-19	25-Oct-19	20	Review and Approve Package CMU																											
SM04 105	Fabricate and Deliver CMU and Reinforcement	30	28-Oct-19	10-Dec-19	20	Fabricate and Deliver CMU and Reinforcement																											
047200 - Cast Stone Masonry						100	30-Sep-19	21-Feb-20	3																								
SM 4 1000	Prepare and Submit Package Cast Stone Masonry	20	30-Sep-19*	25-Oct-19	3	Prepare and Submit Package Cast Stone Masonry																											
SM 4 1020	Review and Approve Package Cast Stone Masonry	20	28-Oct-19	26-Nov-19	3	Review and Approve Package Cast Stone Masonry																											
SM 4 1040	Fabricate and Deliver Unit Masonry Cast Stone Masonry	60	27-Nov-19	21-Feb-20	3	Fabricate and Deliver Unit Masonry Cast Stone Masonry																											
Division 05 - Metals						152	10-Jun-19 A	15-Jan-20	29																								
051200 - Anchor Bolts						45	13-Jun-19 A	21-Aug-19 A																									
SM 5 1310	Prepare and Submit Package Anchor Bolts	9	13-Jun-19 A	20-Jun-19 A		Prepare and Submit Package Anchor Bolts																											
SM 5 1320	Review and Approve Package Anchor Bolts	15	01-Jul-19 A	22-Jul-19 A		Review and Approve Package Anchor Bolts																											
SM 5 1330	Fabricate and Deliver Structural Anchor Bolts	15	23-Jul-19 A	21-Aug-19 A		Fabricate and Deliver Structural Anchor Bolts																											
051200 - Structural Steel Framing						98	10-Jun-19 A	25-Oct-19	0																								
SM 5 1000	Prepare and Submit Package Structural Steel	30	10-Jun-19 A	01-Aug-19 A		Prepare and Submit Package Structural Steel																											
SM 5 1060	Review and Approve Package Structural Steel	24	01-Aug-19 A	30-Sep-19 A		Review and Approve Package Structural Steel																											
SM 5 1160	Fabricate and Deliver Structural Steel Framing	35	09-Sep-19 A	25-Oct-19	0	Fabricate and Deliver Structural Steel Framing																											
051500 - Stud Shear Connectors						110	13-Jun-19 A	31-Oct-19	11																								
SM 5 1080	Review and Approve Package Steel Joists	20	13-Jun-19 A	06-Sep-19 A		Review and Approve Package Steel Joists																											
SM 5 1020	Prepare and Submit Package Steel Joists	20	01-Jul-19 A	19-Aug-19 A		Prepare and Submit Package Steel Joists																											
SM 5 1170	Fabricate and Deliver Stud Shear Connectors	50	09-Sep-19 A	31-Oct-19	11	Fabricate and Deliver Stud Shear Connectors																											
053100 - Steel Decking						110	13-Jun-19 A	31-Oct-19	11																								
SM 5 1040	Prepare and Submit Package Steel Decking	20	13-Jun-19 A	09-Aug-19 A		Prepare and Submit Package Steel Decking																											
SM 5 1100	Review and Approve Package Steel Decking	20	12-Aug-19 A	09-Sep-19 A		Review and Approve Package Steel Decking																											
SM 5 1180	Fabricate and Deliver Steel Decking	49	10-Sep-19 A	31-Oct-19	11	Fabricate and Deliver Steel Decking																											
054100 - Cold Formed Metal Framing						65	09-Oct-19	13-Jan-20	18																								
SM 5 1140	Prepare and Submit Package Metal Framing	25	09-Oct-19	12-Nov-19	18	Prepare and Submit Package Metal Framing																											
SM 5 1210	Review and Approve Package Metal Framing	20	13-Nov-19	12-Dec-19	18	Review and Approve Package Metal Framing																											
SM 5 1250	Fabricate and Deliver Cold Formed Metal Framing	20	13-Dec-19	13-Jan-20	18	Fabricate and Deliver Cold Formed Metal Framing																											
055000 - Metal Fabrications						65	09-Oct-19	13-Jan-20	31																								
SM 5 1130	Prepare and Submit Package Metal Fabs	20	09-Oct-19	05-Nov-19	31	Prepare and Submit Package Metal Fabs																											
SM 5 1220	Review and Approve Package Metal Fabs	20	06-Nov-19	05-Dec-19	31	Review and Approve Package Metal Fabs																											
SM 5 1260	Fabricate and Deliver Metal Fabrications	25	06-Dec-19	13-Jan-20	31	Fabricate and Deliver Metal Fabrications																											
055113 - Metal Pan Stairs						67	09-Oct-19	15-Jan-20	6																								
SM 5 1150	Prepare and Submit Package Metal Stairs & Railings	20	09-Oct-19	05-Nov-19	13	Prepare and Submit Package Metal Stairs & Railings																											
SM 5 1190	Review and Approve Package Metal Stairs & Railings	25	06-Nov-19	12-Dec-19	13	Review and Approve Package Metal Stairs & Railings																											
SM 5 1230	Fabricate Stock Sized Items and Deliver	15	13-Dec-19	06-Jan-20	13	Fabricate Stock Sized Items and Deliver																											
SM 5 1240	Field Measure Floor Heights	3	27-Dec-19	31-Dec-19	6	Field Measure Floor Heights																											
SM 5 1300	Fabricate Field Measured Items and Deliver Metal Stairs & Railings	10	02-Jan-20	15-Jan-20	6	Fabricate Field Measured Items and Deliver Metal Stairs & Railings																											
055213 - Pipe and Tube Railings						60	09-Oct-19	06-Jan-20	13																								
SM 5 1270	Prepare and Submit Package Metal Stairs & Railings	20	09-Oct-19	05-Nov-19	13	Prepare and Submit Package Metal Stairs & Railings																											
SM 5 1280	Review and Approve Package Metal Stairs & Railings	15	06-Nov-19	28-Nov-19	13	Review and Approve Package Metal Stairs & Railings																											
SM 5 1290	Fabricate and Deliver Metal Stairs & Railings	25	29-Nov-19	06-Jan-20	13	Fabricate and Deliver Metal Stairs & Railings																											
055217 - Fall Protection						60	09-Oct-19	06-Jan-20	13																								
SM 5 1340	Prepare and Submit Package Fall Protection	20	09-Oct-19	05-Nov-19	13	Prepare and Submit Package Fall Protection																											
SM 5 1350	Review and Approve Package Fall Protection	15	06-Nov-19	28-Nov-19	13	Review and Approve Package Fall Protection																											
SM 5 1360	Fabricate and Deliver Fall Protection	25	29-Nov-19	06-Jan-20	13	Fabricate and Deliver Fall Protection																											
Division 06 - Wood, Plastics and Composites						164	09-Oct-19	02-Jun-20	348																								
061053 - Misc Carpentry						50	09-Oct-19	19-Dec-19	11																								

-  Summary
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-  Milestone
-  Critical Milestone

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					
Meters & Gages						50	09-Oct-19	19-Dec-19	23																								
SM23 12	Prepare and Submit Package - Meters & Gauges	15	09-Oct-19	29-Oct-19	23	<ul style="list-style-type: none"> █ Prepare and Submit Package - Meters & Gauges 																											
SM23 37	Review and Approve Package - Meters & Gauges	15	30-Oct-19	19-Nov-19	23	<ul style="list-style-type: none"> █ Review and Approve Package - Meters & Gauges 																											
SM23 56	Fabricate and Deliver HVAC Meters & Gauges	20	20-Nov-19	19-Dec-19	23	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Meters & Gauges 																											
Hangers and Attachments						50	09-Oct-19	19-Dec-19	23																								
SM23 23	Prepare and Submit Package - Pipe Hangers, Sleeves	15	09-Oct-19	29-Oct-19	23	<ul style="list-style-type: none"> █ Prepare and Submit Package - Pipe Hangers, Sleeves 																											
SM23 32	Review and Approve Package - Pipe Hangers, Sleeves	15	30-Oct-19	19-Nov-19	23	<ul style="list-style-type: none"> █ Review and Approve Package - Pipe Hangers, Sleeves 																											
SM23 51	Fabricate and Deliver HVAC Pipe Hangers, Sleeves	20	20-Nov-19	19-Dec-19	23	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Pipe Hangers, Sleeves 																											
Mechanical Identification						50	09-Oct-19	19-Dec-19	23																								
SM23 28	Prepare and Submit Package - Tagging	15	09-Oct-19	29-Oct-19	23	<ul style="list-style-type: none"> █ Prepare and Submit Package - Tagging 																											
SM23 45	Review and Approve Package - Tagging	15	30-Oct-19	19-Nov-19	23	<ul style="list-style-type: none"> █ Review and Approve Package - Tagging 																											
SM23 66	Fabricate and Deliver HVAC Tagging	20	20-Nov-19	19-Dec-19	23	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Tagging 																											
Mechanical & Grease Duct Insulation						40	09-Oct-19	05-Dec-19	64																								
SM23 111	Prepare and Submit Package - Mechanical Insulation	10	09-Oct-19	22-Oct-19	64	<ul style="list-style-type: none"> █ Prepare and Submit Package - Mechanical Insulation 																											
SM23 47	Review and Approve Package - Mechanical Insulation	15	23-Oct-19	12-Nov-19	64	<ul style="list-style-type: none"> █ Review and Approve Package - Mechanical Insulation 																											
SM23 68	Fabricate and Deliver HVAC Insulation	15	13-Nov-19	05-Dec-19	64	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Insulation 																											
Hydronic Piping						50	09-Oct-19	19-Dec-19	23																								
SM23 900	Prepare and Submit Package - Hydronic Piping	15	09-Oct-19	29-Oct-19	23	<ul style="list-style-type: none"> █ Prepare and Submit Package - Hydronic Piping 																											
SM23 920	Review and Approve Package - Hydronic Piping	15	30-Oct-19	19-Nov-19	23	<ul style="list-style-type: none"> █ Review and Approve Package - Hydronic Piping 																											
SM23 940	Fabricate and Deliver HVAC Hydronic Piping	20	20-Nov-19	19-Dec-19	23	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Hydronic Piping 																											
Refrigeration Piping						50	09-Oct-19	19-Dec-19	23																								
SM23 910	Prepare and Submit Package - Refrigeration Piping	15	09-Oct-19	29-Oct-19	23	<ul style="list-style-type: none"> █ Prepare and Submit Package - Refrigeration Piping 																											
SM23 930	Review and Approve Package - Refrigeration Piping	15	30-Oct-19	19-Nov-19	23	<ul style="list-style-type: none"> █ Review and Approve Package - Refrigeration Piping 																											
SM23 950	Fabricate and Deliver HVAC Refrigeration Piping	20	20-Nov-19	19-Dec-19	23	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Refrigeration Piping 																											
Boilers						110	09-Oct-19	17-Mar-20	18																								
SM23 100	Prepare and Submit Package - Gas Fired Boiler	20	09-Oct-19	05-Nov-19	18	<ul style="list-style-type: none"> █ Prepare and Submit Package - Gas Fired Boiler 																											
SM23 101	Review and Approve Package - Gas Fired Boiler	20	06-Nov-19	05-Dec-19	18	<ul style="list-style-type: none"> █ Review and Approve Package - Gas Fired Boiler 																											
SM23 102	Fabricate and Deliver HVAC Gas Fired Boiler	70	06-Dec-19	17-Mar-20	18	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Gas Fired Boiler 																											
Air Cooled Chiller						110	09-Oct-19	17-Mar-20	206																								
SM23 121	Prepare and Submit Package - Air Cooled Chiller	20	09-Oct-19	05-Nov-19	206	<ul style="list-style-type: none"> █ Prepare and Submit Package - Air Cooled Chiller 																											
SM23 122	Review and Approve Package - Air Cooled Chiller	20	06-Nov-19	05-Dec-19	206	<ul style="list-style-type: none"> █ Review and Approve Package - Air Cooled Chiller 																											
SM23 123	Fabricate and Deliver HVAC Air Cooled Chiller	70	06-Dec-19	17-Mar-20	206	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Air Cooled Chiller 																											
Pumps						55	09-Oct-19	27-Dec-19	73																								
SM23 103	Prepare and Submit Package - Pumps	15	09-Oct-19	29-Oct-19	73	<ul style="list-style-type: none"> █ Prepare and Submit Package - Pumps 																											
SM23 104	Review and Approve Package - Pumps	15	30-Oct-19	19-Nov-19	73	<ul style="list-style-type: none"> █ Review and Approve Package - Pumps 																											
SM23 105	Fabricate and Deliver HVAC Pumps	25	20-Nov-19	27-Dec-19	73	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Pumps 																											
Terminal Heating Units Hot Water						60	09-Oct-19	06-Jan-20	101																								
SM23 13	Prepare and Submit Package - Terminal Heating Units	10	09-Oct-19	22-Oct-19	101	<ul style="list-style-type: none"> █ Prepare and Submit Package - Terminal Heating Units 																											
SM23 48	Review and Approve Package - Terminal Heating Units	10	23-Oct-19	05-Nov-19	101	<ul style="list-style-type: none"> █ Review and Approve Package - Terminal Heating Units 																											
SM23 69	Fabricate and Deliver HVAC Terminal Heating Units Hydronic	40	06-Nov-19	06-Jan-20	101	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Terminal Heating Units Hydronic 																											
Induction Terminal Units (Active Chilled Beam)						60	09-Oct-19	06-Jan-20	234																								
SM23 70	Prepare and Submit Package - Induction Terminal Units	10	09-Oct-19	22-Oct-19	234	<ul style="list-style-type: none"> █ Prepare and Submit Package - Induction Terminal Units 																											
SM23 71	Review and Approve Package - Induction Terminal Units	10	23-Oct-19	05-Nov-19	234	<ul style="list-style-type: none"> █ Review and Approve Package - Induction Terminal Units 																											
SM23 72	Fabricate and Deliver HVAC Induction Terminal Units	40	06-Nov-19	06-Jan-20	234	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Induction Terminal Units 																											
Terminal Heating Units Electric						60	09-Oct-19	06-Jan-20	101																								
SM23 109	Prepare and Submit Package - Terminal Heating Units	10	09-Oct-19	22-Oct-19	101	<ul style="list-style-type: none"> █ Prepare and Submit Package - Terminal Heating Units 																											
SM23 110	Review and Approve Package - Terminal Heating Units	10	23-Oct-19	05-Nov-19	101	<ul style="list-style-type: none"> █ Review and Approve Package - Terminal Heating Units 																											
SM23 111	Fabricate and Deliver HVAC Terminal Heating Units Electric	40	06-Nov-19	06-Jan-20	101	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Terminal Heating Units Electric 																											
Variable Air Volume Boxes						55	09-Oct-19	27-Dec-19	106																								
SM23 106	Prepare and Submit Package - VAV Boxes	15	09-Oct-19	29-Oct-19	106	<ul style="list-style-type: none"> █ Prepare and Submit Package - VAV Boxes 																											
SM23 107	Review and Approve Package - VAV Boxes	15	30-Oct-19	19-Nov-19	106	<ul style="list-style-type: none"> █ Review and Approve Package - VAV Boxes 																											
SM23 108	Fabricate and Deliver HVAC VAV Boxes	25	20-Nov-19	27-Dec-19	106	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC VAV Boxes 																											
Rooftop Units						112	28-Aug-19 A	06-Feb-20	21																								
SM23 800	Prepare and Submit Package - Rooftop Units	20	28-Aug-19 A	13-Sep-19 A		<ul style="list-style-type: none"> █ Prepare and Submit Package - Rooftop Units 																											
SM23 810	Review and Approve Package - Rooftop Units	25	16-Sep-19 A	11-Oct-19 A		<ul style="list-style-type: none"> █ Review and Approve Package - Rooftop Units 																											
SM23 820	Fabricate and Deliver HVAC Rooftop Units	90	30-Sep-19	06-Feb-20	21	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Rooftop Units 																											
Ductless Cooling Unit Systems						50	09-Oct-19	19-Dec-19	111																								
SM23 16	Prepare and Submit Package - Ductless Cooling Unit Systems	10	09-Oct-19	22-Oct-19	111	<ul style="list-style-type: none"> █ Prepare and Submit Package - Ductless Cooling Unit Systems 																											
SM23 40	Review and Approve Package - Ductless Cooling Unit Systems	10	23-Oct-19	05-Nov-19	111	<ul style="list-style-type: none"> █ Review and Approve Package - Ductless Cooling Unit Systems 																											
SM23 59	Fabricate and Deliver HVAC Ductless Cooling Unit Systems	30	06-Nov-19	19-Dec-19	111	<ul style="list-style-type: none"> █ Fabricate and Deliver HVAC Ductless Cooling Unit Systems 																											

- █ Summary
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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					
Power & Gravity Ventilators						55	09-Oct-19	27-Dec-19	106	<ul style="list-style-type: none"> █ Prepare and Submit Package - Power & Gravity Ventilators █ Review & Approve Package - Power & Gravity Ventilators █ Fabricate and Deliver HVAC Power & Gravity Ventilators 																							
SM 23 18	Prepare and Submit Package - Power & Gravity Ventilators	15	09-Oct-19	29-Oct-19	106																												
SM 23 18	Review and Approve Package - Power & Gravity Ventilators	15	30-Oct-19	19-Nov-19	106																												
SM 23 61	Fabricate and Deliver HVAC Power & Gravity Ventilators	25	20-Nov-19	27-Dec-19	106																												
Metal Ductwork						40	09-Oct-19	05-Dec-19	33	<ul style="list-style-type: none"> █ Prepare and Submit Package - Metal Ductwork █ Review and Approve Package - Metal Ductwork █ Fabricate and Deliver HVAC Metal Ductwork 																							
SM 3 190	Prepare and Submit Package - Metal Ductwork	15	09-Oct-19	29-Oct-19	33																												
SM 3 200	Review and Approve Package - Metal Ductwork	15	30-Oct-19	19-Nov-19	33																												
SM 3 210	Fabricate and Deliver HVAC Metal Ductwork	10	20-Nov-19	05-Dec-19	33																												
Metal Ductwork Accessories						40	09-Oct-19	05-Dec-19	33	<ul style="list-style-type: none"> █ Prepare and Submit Package - Metal Ductwork Accessories █ Review and Approve Package - Metal Ductwork Accessories █ Fabricate and Deliver HVAC Metal Ductwork Accessories 																							
SM23 22	Prepare and Submit Package - Metal Ductwork Accessories	15	09-Oct-19	29-Oct-19	33																												
SM23 23	Review and Approve Package - Metal Ductwork Accessories	15	30-Oct-19	19-Nov-19	33																												
SM23 24	Fabricate and Deliver HVAC Metal Ductwork Accessories	10	20-Nov-19	05-Dec-19	33																												
Air Outlets & Inlets						60	09-Oct-19	06-Jan-20	101	<ul style="list-style-type: none"> █ Prepare & Submit Package - Air Outlets & Inlets █ Review & Approve Package - Air Outlets & Inlets █ Fabricate and Deliver Air Outlets & Inlets 																							
SM 23 60	Prepare & Submit Package - Air Outlets & Inlets	15	09-Oct-19	29-Oct-19	101																												
SM 23 100	Review & Approve Package - Air Outlets & Inlets	15	30-Oct-19	19-Nov-19	101																												
SM 23 110	Fabricate and Deliver Air Outlets & Inlets	30	20-Nov-19	06-Jan-20	101																												
Acoustic Duct Lining						40	09-Oct-19	05-Dec-19	33	<ul style="list-style-type: none"> █ Prepare and Submit Package - Acoustical Duct Lining █ Review and Approve Package - Acoustical Duct Lining █ Fabricate and Deliver HVAC Acoustical Duct Lining 																							
SM23 112	Prepare and Submit Package - Acoustical Duct Lining	15	09-Oct-19	29-Oct-19	33																												
SM23 113	Review and Approve Package - Acoustical Duct Lining	15	30-Oct-19	19-Nov-19	33																												
SM23 114	Fabricate and Deliver HVAC Acoustical Duct Lining	10	20-Nov-19	05-Dec-19	33																												
Sound Attenuators						50	09-Oct-19	19-Dec-19	23	<ul style="list-style-type: none"> █ Prepare and Submit Package - Sound Attenuators █ Review and Approve Package - Sound Attenuators █ Fabricate and Deliver HVAC Sound Attenuators 																							
SM 23 25	Prepare and Submit Package - Sound Attenuators	10	09-Oct-19	22-Oct-19	23																												
SM 23 34	Review and Approve Package - Sound Attenuators	10	23-Oct-19	05-Nov-19	23																												
SM 23 53	Fabricate and Deliver HVAC Sound Attenuators	30	06-Nov-19	19-Dec-19	23																												
Condensate Discharge Pumps						70	09-Oct-19	20-Jan-20	58	<ul style="list-style-type: none"> █ Prepare and Submit Package - Condensate Discharge Pumps █ Review and Approve Package - Condensate Discharge Pumps █ Fabricate and Deliver HVAC Condensate Discharge Pumps 																							
SM 23 14	Prepare and Submit Package - Condensate Discharge Pumps	20	09-Oct-19	05-Nov-19	58																												
SM 23 38	Review and Approve Package - Condensate Discharge Pumps	20	06-Nov-19	05-Dec-19	58																												
SM 23 57	Fabricate and Deliver HVAC Condensate Discharge Pumps	30	06-Dec-19	20-Jan-20	58																												
Firestop Systems						45	09-Oct-19	12-Dec-19	28	<ul style="list-style-type: none"> █ Prepare and Submit Package - Firestop Systems █ Review and Approve Package - Firestop Systems █ Fabricate and Deliver HVAC Firestop Systems 																							
SM 23 26	Prepare and Submit Package - Firestop Systems	10	09-Oct-19	22-Oct-19	28																												
SM 23 35	Review and Approve Package - Firestop Systems	10	23-Oct-19	05-Nov-19	28																												
SM 23 54	Fabricate and Deliver HVAC Firestop Systems	25	06-Nov-19	12-Dec-19	28																												
Automatic Temperature Controls						40	09-Oct-19	05-Dec-19	53	<ul style="list-style-type: none"> █ Prepare and Submit Package ATCs █ Review and Approve Package ATCs █ Fabricate and Deliver ATCs 																							
SM 23 22	Prepare and Submit Package ATCs	10	09-Oct-19	22-Oct-19	53																												
SM 23 30	Review and Approve Package ATCs	10	23-Oct-19	05-Nov-19	53																												
SM 23 50	Fabricate and Deliver ATCs	20	06-Nov-19	05-Dec-19	53																												
Testing, Adjusting, Balancing, Cx						55	09-Oct-19	27-Dec-19	116	<ul style="list-style-type: none"> █ Prepare and Submit Package - Testing, Adjusting, Balancing, Cx █ Review and Approve Package - Testing, Adjusting, Balancing, Cx █ Fabricate and Deliver HVAC Testing, Adjusting, Balancing, Cx 																							
SM23 115	Prepare and Submit Package - Testing, Adjusting, Balancing, Cx	15	09-Oct-19	29-Oct-19	116																												
SM23 116	Review and Approve Package - Testing, Adjusting, Balancing, Cx	15	30-Oct-19	19-Nov-19	116																												
SM23 117	Fabricate and Deliver HVAC Testing, Adjusting, Balancing, Cx	25	20-Nov-19	27-Dec-19	116																												
230548 - Vibratory Controls						55	09-Oct-19	27-Dec-19	38	<ul style="list-style-type: none"> █ Prepare and Submit Package - Vibratory & Seismic Controls █ Review and Approve Package - Vibratory & Seismic Controls █ Fabricate and Deliver HVAC Vibratory & Seismic Controls 																							
SM23 118	Prepare and Submit Package - Vibratory & Seismic Controls	15	09-Oct-19	29-Oct-19	38																												
SM23 119	Review and Approve Package - Vibratory & Seismic Controls	15	30-Oct-19	19-Nov-19	38																												
SM23 120	Fabricate and Deliver HVAC Vibratory & Seismic Controls	25	20-Nov-19	27-Dec-19	38																												
Division 26 - Electrical						148	15-Aug-19 A	17-Mar-20	26																								
Raceways & Fittings						50	09-Oct-19	19-Dec-19	43	<ul style="list-style-type: none"> █ Prepare and Submit Package Raceways & Fittings █ Review and Approve Package Raceways & Fittings █ Fabricate and Deliver Raceways & Fittings 																							
SM 26 900	Prepare and Submit Package Raceways & Fittings	20	09-Oct-19	05-Nov-19	43																												
SM 26 920	Review and Approve Package Raceways & Fittings	15	06-Nov-19	28-Nov-19	43																												
SM 26 940	Fabricate and Deliver Raceways & Fittings	15	29-Nov-19	19-Dec-19	43																												
Conductors						50	09-Oct-19	19-Dec-19	43	<ul style="list-style-type: none"> █ Prepare and Submit Package Conductors █ Review and Approve Package Conductors █ Fabricate and Deliver Conductors 																							
SM26 100	Prepare and Submit Package Conductors	20	09-Oct-19	05-Nov-19	43																												
SM26 101	Review and Approve Package Conductors	15	06-Nov-19	28-Nov-19	43																												
SM26 102	Fabricate and Deliver Conductors	15	29-Nov-19	19-Dec-19	43																												
Access Panels						50	09-Oct-19	19-Dec-19	43	<ul style="list-style-type: none"> █ Prepare and Submit Package Access Panels █ Review and Approve Package Access Panels █ Fabricate and Deliver Access Panels 																							
SM 26 910	Prepare and Submit Package Access Panels	20	09-Oct-19	05-Nov-19	43																												
SM 26 930	Review and Approve Package Access Panels	15	06-Nov-19	28-Nov-19	43																												
SM 26 950	Fabricate and Deliver Access Panels	15	29-Nov-19	19-Dec-19	43																												
Sleeves, Inserts, Openings						30	09-Oct-19	19-Nov-19	19	<ul style="list-style-type: none"> █ Prepare and Submit Package Sleeves, Inserts █ Review and Approve Package Sleeves, Inserts 																							
SM 26 100	Prepare and Submit Package Sleeves, Inserts	15	09-Oct-19	29-Oct-19	19																												
SM 26 110	Review and Approve Package Sleeves, Inserts	5	30-Oct-19	05-Nov-19	19																												

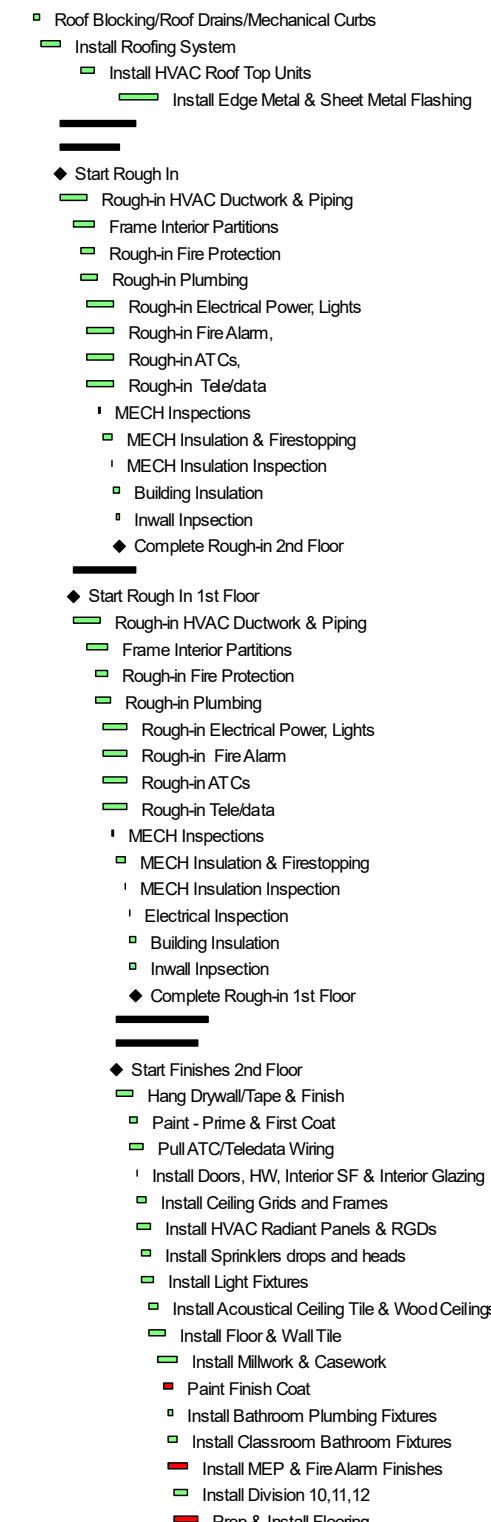
- █ Summary
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Project Schedule

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					
Roofing & Roof Mounted Items						93	18-Dec-19	29-Apr-20	5																								
1EX 190	Roof Blocking/Roof Drains/Mechanical Curbs	5	18-Dec-19	24-Dec-19	5																												
1EX 120	Install Roofing System	15	26-Dec-19	16-Jan-20	5																												
1EX 170	Install HVAC Roof Top Units	10	07-Feb-20	21-Feb-20	21																												
1EX 200	Install Edge Metal & Sheet Metal Flashing	30	19-Mar-20	29-Apr-20	5																												
Rough In						56	17-Jan-20	06-Apr-20	12																								
2nd Floor Rough In						45	17-Jan-20	20-Mar-20	5																								
1R2 100	Start Rough In	0	17-Jan-20		5																												
1R2 110	Rough-in HVAC Ductwork & Piping	20	17-Jan-20	13-Feb-20	5																												
1R2 120	Frame Interior Partitions	15	31-Jan-20	21-Feb-20	5																												
1R2 150	Rough-in Fire Protection	10	07-Feb-20	21-Feb-20	8																												
1R2 130	Rough-in Plumbing	12	07-Feb-20	25-Feb-20	6																												
1R2 140	Rough-in Electrical Power, Lights	20	14-Feb-20	13-Mar-20	5																												
1R2 180	Rough-in Fire Alarm,	20	14-Feb-20	13-Mar-20	5																												
1R2 190	Rough-in AT Cs,	20	14-Feb-20	13-Mar-20	5																												
1R2 200	Rough-in Tele/data	20	14-Feb-20	13-Mar-20	5																												
1R2 160	MECH Inspections	3	26-Feb-20	28-Feb-20	6																												
1R2 270	MECH Insulation & Firestopping	8	02-Mar-20	11-Mar-20	6																												
1R2 280	MECH Insulation Inspection	1	12-Mar-20	12-Mar-20	6																												
1R2 290	Building Insulation	5	13-Mar-20	19-Mar-20	6																												
1R2 300	Inwall Inpsection	5	16-Mar-20	20-Mar-20	5																												
1R2 170	Complete Rough-in 2nd Floor	0		20-Mar-20	5																												
1st Floor Rough In						46	31-Jan-20	06-Apr-20	12																								
1R1 100	Start Rough In 1st Floor	0	31-Jan-20		12																												
1R1 110	Rough-in HVAC Ductwork & Piping	20	31-Jan-20	28-Feb-20	12																												
1R1 120	Frame Interior Partitions	15	14-Feb-20	06-Mar-20	12																												
1R1 150	Rough-in Fire Protection	10	24-Feb-20	06-Mar-20	16																												
1R1 130	Rough-in Plumbing	12	24-Feb-20	10-Mar-20	14																												
1R1 140	Rough-in Electrical Power, Lights	20	02-Mar-20	27-Mar-20	12																												
1R1 180	Rough-in Fire Alarm	20	02-Mar-20	27-Mar-20	12																												
1R1 190	Rough-in AT Cs	20	02-Mar-20	27-Mar-20	12																												
1R1 200	Rough-in Tele/data	20	02-Mar-20	27-Mar-20	12																												
1R1 100	MECH Inspections	3	11-Mar-20	13-Mar-20	14																												
1R1 110	MECH Insulation & Firestopping	8	16-Mar-20	25-Mar-20	14																												
1R1 120	MECH Insulation Inspection	1	26-Mar-20	26-Mar-20	14																												
1R1 160	Electrical Inspection	1	30-Mar-20	30-Mar-20	12																												
1R1 130	Building Insulation	5	31-Mar-20	06-Apr-20	12																												
1R1 140	Inwall Inpsection	5	31-Mar-20	06-Apr-20	12																												
1R1 170	Complete Rough-in 1st Floor	0		06-Apr-20	12																												
Finishes						69	17-Mar-20	22-Jun-20	9																								
2nd Floor Finishes						62	17-Mar-20	11-Jun-20	0																								
1F2 100	Start Finishes 2nd Floor	0	17-Mar-20		5																												
1F2 110	Hang Drywall/Tape & Finish	14	17-Mar-20	03-Apr-20	5																												
1F2 120	Paint - Prime & First Coat	7	30-Mar-20	07-Apr-20	5																												
1F2 310	Pull ATC/Teledata Wiring	10	31-Mar-20	13-Apr-20	19																												
1F2 330	Install Doors, HW, Interior SF & Interior Glazing	1	08-Apr-20	08-Apr-20	20																												
1F2 130	Install Ceiling Grids and Frames	8	08-Apr-20	17-Apr-20	5																												
1F2 160	Install HVAC Radiant Panels & RGDs	10	08-Apr-20	21-Apr-20	36																												
1F2 250	Install Sprinklers drops and heads	8	13-Apr-20	22-Apr-20	5																												
1F2 140	Install Light Fixtures	10	13-Apr-20	24-Apr-20	8																												
1F2 150	Install Acoustical Ceiling Tile & Wood Ceilings	8	20-Apr-20	29-Apr-20	5																												
1F2 170	Install Floor & Wall Tile	15	20-Apr-20	08-May-20	5																												
1F2 210	Install Millwork & Casework	15	30-Apr-20	20-May-20	15																												
1F2 180	Paint Finish Coat	7	07-May-20	15-May-20	0																												
1F2 200	Install Bathroom Plumbing Fixtures	5	11-May-20	15-May-20	8																												
1F2 320	Install Classroom Bathroom Fixtures	8	11-May-20	20-May-20	15																												
1F2 190	Install MEP & Fire Alarm Finishes	15	11-May-20	01-Jun-20	0																												
1F2 240	Install Division 10,11,12	10	18-May-20	01-Jun-20	8																												
1F2 220	Prep & Install Flooring	18	18-May-20	11-Jun-20	0																												



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