

## **University of Connecticut**

## Project #901803 Gant Building Renovation – STEM Phase 1

## Construction Bid – Addendum 4.1

February 21, 2017

## A. General Requirements

When submitting your proposal, please indicate acknowledgement of this Addendum under "Addenda" in Exhibit G. Include any price adjustments necessary as a result of new/ revised bid documents under Exhibit G Pricing Schedule.

• Note all bids will be evaluated on best overall value which may include the alternate pricing.

## **B.** Project Schedule Update Attachment

Attached is the updated UConn Gant Building Renovation Phase 1 – Update 12 - Construction Schedule with data date of February 20, 2018.

## C. Bulletin No. 19 and Bulletin No. 20

Attached is 901803 Gant Renovations – STEM, Phase 1 – Bulletin No. 19 Mechanical Clarifications (Radiant Ceiling Panels), dated 2/20/18 and is 901803 Gant Renovations – STEM, Phase 1 – Bulletin No. 20 Electrical Clarifications (Elevator Feeders Panelboards)

## D. Project 9018093 Gant Building Renovation – STEM Phase 1 – Closed Project RFI's

Attached is the current 901803 – Uconn Gant Phase 1 – Closed Project RFI List / Log – dated 2/20/18 at 09:45AM – Includes question and answers to project RFI's #1-40 with associated links to attachments. (14 pages)

## E. Addendum 4.1 Scope Modifications & Clarifications

When submitting your proposal, please indicate acknowledgement of this Addendum under "Addenda" in Exhibit G. Include any price adjustments necessary as a result of new/ revised bid documents under Exhibit G Pricing Schedule.

- Unit 04A Masonry & Concrete to remove existing and replace with new sealant between all concrete columns and brick as noted in documents with new sealant. Provide removal and disposal of existing sealant. Provide all backer rod to provide a complete assembly.
- Unit 04A Masonry & Concrete to provide all scope of work in reference to notes on Addendum in regards to repairing cracks at the noted sizes and dimensions of the cracks.
- Unit 04A Masonry & Concrete to clean 100% of existing masonry and concrete, including all concrete elements that will be exposed to view: not all areas are indicated on the drawings. Include the Plaza Pavilion and Light Court Elevations. Include cost to remove atmospheric spoiling and staining.
- Unit 04A Masonry & Concrete to Remove, Demo, Dispose of, and Replace top two courses of brick under the aluminum window sills as noted. Typical at 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> floors of all structural bays at the South and North building elevations. All Existing flashing are to remain and/or be repaired as needed for a complete assembly. Provide weeps in head joints at flashing locations to match existing, typical.
- Unit 04A Masonry & Concrete to provide all means and methods to perform their scope of work. In addition to previously identified scope items, work to also include but not limited to removal, modification, and reinstall of temporary protections affected by means & methods install; removal, onsite storage of, and reinstallation of all plaza pavers affected by means & methods install; removal, cutting, temporary flashing, substrate modifications, temp roofing, etc. required at roofing (including but not limited to main and plaza level roofing assemblies) for install of affected means & methods. All modifications for means and methods to be fully returned and restored to original conditions and

included by this Subcontractor. If means & methods being utilized is determined to be conventional or stick frame staging (or any other types of means & methods that require associated scrim per UConn Standards), this Subcontractor is to furnish and install associated scrim. Provide and Install of scrim per UConn Standards as listed in the contract documents. Provide all maintenance of any associated scrim.

- Unit 04A Masonry & Concrete to provide toothing in brick at removed/abated locations where others have demoed. Work to include but not limited to providing additional brick (above and beyond what is shown) removal, replacement, and toothing in new brick to allow for full replacement of any partially cut/damaged brick. Provide a uniform and consistent look and finish.
- Unit 04A Masonry & Concrete to provide a final pressure wash cleaning of all Phase 1 area facades at the end of the project for final cleaning.
- Unit 04A Masonry & Concrete to provide CMU / Concrete patching and repair of any existing to remain CMU / Concrete partitions. Provide opening of existing to remain CMU / Concrete walls in order to install in-wall pipes, conduits, penetrations through walls, ductwork, other MEP's, etc. Provide patching, infilling, and closing of walls with CMU/concrete/etc. products after in-wall performed. Provide all coordination with trade contractors on layout and locations. Provide all reinforcing, rebar, wiremesh, lintels, supports, wirelath, etc. as required. Patching of any noted assemblies at areas where MEP's and other penetrations removed.
- Unit 04A Masonry & Concrete to provide all toothing as required for any installs / patches / repairs / etc. at all brick / masonry / CMU / and other assemblies by this Subcontractor.
- Unit 04A Masonry & Concrete to provide all required dilution and/or capture of cleaning procedures / sequences / run-off of liquids / etc. to meet all required regulations and standards. Comply with all contract documents for cleaning procedures and sequences.

## F. Addendum 4.1 Attachments:

Please review all attachments in their entirety for inclusion into the base bid documents.

## Narrative:

• Addendum #04.1 Narrative of changes – dated February 14, 2017.

## Responses to Bid RFI's

No Bid RFI's Received.

#### **Drawings:**

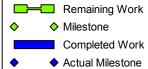
- AR-201 Bid Addendum 4.1; Revision 4.1; Revision Date 2/14/18
- AR-202 Bid Addendum 4.1; Revision 4.1; Revision Date 2/14/18
- AR-203 Bid Addendum 4.1; Revision 4.1; Revision Date 2/14/18
- A-620 Bid Addendum 4.1; Revision 4.1; Revision Date 2/14/18
- A-673 Bid Addendum 4.1; Revision 4.1; Revision Date 2/14/18

### **Specifications:**

- 012200 Unit Prices Bid Addendum 4.1; Revision Date 2/14/18
- 033550 Concrete Repair Bid Addendum 4.1; Revision Date 2/14/18

Bid due date: February 28, 2018 at 12:00 p.m.

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul A S Oct N D Jan Apr M Jun Jul
<b>UCONN</b> Gant	Building Renovation Phase 1 - Update 12					
MILESTONES						
M05	Phase 1 NTP	0	0		Dec-1-17 A	◆ Phase 1 NTP
M07	Plaza Building Vacated	0	0		May-11-18*	♦ Plaza Building Vacated
M11	Phase 1 South Wing Substantial Completion	0	0		Jun-10-19*	◆ Phase 1 South Wing
M09	West Wing Vacated	0	0		Jun-24-19	♦ West Wing Vacated
M13	Phase 1 West Connector Substantial Completion	0	0		Oct-22-19*	♦ Phase 1
BID & AWARD	/ GMP					
Construction Ph						
BA-132	UConn Executes GMP Amendment	87	0	Aug-2-17 A	Nov-30-17 A	UConn Executes GMP Amendment
BA-136	UConn Releases Balance of Funding for Const.	1	0	Nov-30-17 A	Nov-30-17 A	□ UConn Releases Balance of Funding for Const.
BA-134	UConn Issues Purchase Order	1	0	Nov-30-17 A	Nov-30-17 A	I UConn Issues Purchase Order
BA-138	UConn Issues Notice to Proceed	2	0	Nov-30-17 A	Dec-1-17 A	I UConr Issues Notice to Proceed
BA-142	Award Demolition & Abatement Contracts	9	0	Dec-1-17 A	Dec-13-17 A	Award Demolition & Abatement Contracts
BA-140	Award Construction Subcontracts	12	0	Dec-1-17 A	Dec-18-17 A	Award Construction Subcontracts
BA-148	WT Notified of Bid Error in Selected Masonry Subcontractor's Bid	24	0	Dec-1-17 A	Jan-12-18 A	W Notified of Bid Error in Selected Masonry Subcontractor's Bid
BA-154	WT & UCONN Develop Plan for Alternate Masonry Subcontractor	13	0	Jan-15-18 A	Jan-31-18 A	WT & UCONN Develop Plan for Alternate Masonry Subcontractor
BA-144	Masonry Package Re-Bid Period	20	7	Feb-1-18 A	Feb-28-18	Masonry Package Re-Bid Period
BA-146	Scope/Level/Recommend Masonry Package	5	5	Mar-1-18	Mar-7-18	<ul><li>Scope/Level/Recommend Masonry Package</li></ul>
BA-150	UCONN Rvw & Approve Masonry Award	5	5	Mar-8-18	Mar-14-18	UCONN Rvw & Approve Masonry Award
BA-152	Award Masonry Subcontract	5	5	Mar-15-18	Mar-21-18	Award Masonry Subcontract
ENGINEERING	G & FABRICATION					
PROC-100	Start Con. Submittal Review & Material Procurement	0	0	Dec-19-17 A		◆ Start Con. Submittal Review & Material Procurement
02A Demo & Ab						
PROC-102	Prep & Submit Demo & Abatement Submittals & Abatement Notice	10	0	Dec-14-17 A	Jan-17-18 A	Prep & Submit Demo & Abatement Submittals & Abatement Notice
03A Concrete		00		D 40.47.4	F 1 00 10	Prep & Submit Concrete Rebar & P.D.
	Prep & Submit Concrete Rebar & P.D.	20		Dec-19-17 A		■ WT Rvw Concrete Rebar & P.D.
PROC-106	WT Rvw Concrete Rebar & P.D.	5	5	Feb-27-18	Mar-5-18	Rvw & Approve Concrete Rebar & P.D.
PROC-108	Rvw & Approve Concrete Rebar & P.D.	10	10	Mar-6-18	Mar-19-18	Fab & Deliver Concrete Rebar & P.D.
PROC-110	Fab & Deliver Concrete Rebar & P.D.	15	15	Mar-20-18	Apr-9-18	Prep & Submit Concrete Rebar & P.D Rooftop
PROC-758	Prep & Submit Concrete Rebar & P.D Rooftop	20	20	Feb-21-18	Mar-20-18	■ WT Rvw Concrete Rebar & P.D Rooftop
PROC-760	WT Rvw Concrete Rebar & P.D Rooftop	5	5	Mar-21-18	Mar-27-18	
PROC-762	Rvw & Approve Concrete Rebar & P.D Rooftop	10	10	Mar-28-18	Apr-10-18	Rvw & Approve Concrete Rebar & P.D Rooftop
PROC-764	Fab & Deliver Concrete Rebar & P.D Rooftop	15	15	Apr-11-18	May-1-18	☐ Fab & Deliver Concrete Rebar & P.D Rooftop
04A Masonry	Porform Mortar Analysis & Submit to Design Teem	20	20	Mar-22-18	Apr 10 10	Perform Mortar Analysis & Submit to Design Team
PROC-752 PROC-756	Perform Mortar Analysis & Submit to Design Team  DT Pyru & Approve Mortar Analysis	10	20		Apr-18-18	□ DT Rvw & Approve Mortar Analysis
	DT Rvw & Approve Mortar Analysis		10	Apr-19-18	May-2-18	□ Prep & Submit Masonry Submitals & Restoration Plan
PROC-136	Prep & Submit Masonry Submitals & Restoration Plan	10	10	Mar-22-18	Apr-4-18	WT Rvw Masonry Submitals & Restoration Plan
PROC-138	WT Rvw Masonry Submitals & Restoration Plan	3	3	Apr-5-18	Apr-9-18	Rvw & Approve Masonry Submitals & Restoration Plan
PROC-140	Rvw & Approve Masonry Submitals & Restoration Plan	10	10	Apr-10-18	Apr-23-18	Now a Approve Masoning Submittals a Residuation Plan



Gant-12





Activity ID	Activity Name	Original Duration		Start	Finish	2018 2019 2020    N   D   Jan   F   Mar   Apr   M   Jun   Jul   A   S   Oct   N   D   Jan   F   M   Apr   M   Jun   Jul   A   S   Oct   N   D   Jan   T   D   Jan   T   D   Jan   T   D   Jan   T   D   Jan   D   Jan
PROC-142	Procure Masonry Restoration Materials	10	10	Apr-24-18	May-7-18	□ Procure Masonry Restoration Materials
PROC-144	Prep & Submit Masonry Cleaning	10	10	Mar-22-18	Apr-4-18	□ Prep & Submit Masonry Cleaning
PROC-146	WT Rvw Masonry Cleaning	3	3	Apr-5-18	Apr-9-18	■ WT Rvw Masonry Cleaning
PROC-148	Rvw & Approve Masonry Cleaning	10	10	Apr-10-18	Apr-23-18	■ Rvw & Approve Masonry Cleaning
PROC-150	Procure Masonry Cleaning Materials	10	10	Apr-24-18	May-7-18	■ Procure Masonry Cleaning Materials
PROC-156	Prep & Submit Granite	20	20	Mar-22-18	Apr-18-18	Prep & Submit Granite
PROC-158	WT Rvw Granite	3	3	Apr-19-18	Apr-23-18	■ WT Rvw Granite
PROC-160	Rvw & Approve Granite	10	10	Apr-24-18	May-7-18	Rvw & Approve Granite
PROC-162	Fab & Deliver Granite Mock-up Materials	20	20	May-8-18	Jun-5-18	Fab & Deliver Granite Mock-up Materials
PROC-738	Fab & Deliver Granite	40	40	Jul-13-18	Sep-7-18	Fab & Deliver Granite
PROC-112	Prep & Submit Concrete Repairs	10	10	Mar-22-18	Apr-4-18	□ Prep & Submit Concrete Repairs
PROC-114	WT Rvw Concrete Repairs	5	5	Apr-5-18	Apr-11-18	■ WT Rvw Concrete Repairs
PROC-116	Rvw & Approve Concrete Repairs	10	10	Apr-12-18	Apr-25-18	■ Rvw & Approve Concrete Repairs
PROC-118	Procure Concrete Repair Materials	10	10	Apr-26-18	May-9-18	■ Procure Concrete Repair Materials
05A Structural St	teel					
PROC-168	Prep & Submit Structural Steel - Light Court	30	0	Dec-19-17 A	Dec-19-17 A	Prep & Submit Structural Steel - Light Court
PROC-170	WT Rvw Structural Steel - Light Court	5	0	Dec-19-17 A	Dec-19-17 A	□ WT Rvw Structural Steel - Light Court
PROC-172	Rvw & Approve Structural Steel - Light Court	10	0	Dec-20-17 A	Jan-11-18 A	Rvw & Approve Structural Steel - Light Court
PROC-174	Fab & Store Structural Steel - Light Court	30	15	Jan-12-18 A	Mar-12-18	Fab & Store Structural Steel - Light Court
PROC-474	Prep & Submit Structural Steel - Shafts	30	0	Dec-19-17 A	Dec-19-17 A	Prep & Submit Structural Steel - Shafts
PROC-476	WT Rvw Structural Steel - Shafts	5	0	Dec-19-17 A	Dec-19-17 A	□ WT Rvw Structural Steel - Shafts
PROC-478	Rvw & Approve Structural Steel - Shafts	10	0	Dec-20-17 A	Dec-21-17 A	□ Rvw & Approve Structural Steel - Shafts
PROC-480	Fab & Store Structural Steel - Shafts	30	15	Dec-22-17 A	Mar-12-18	Fab & Store Structural Steel - Shafts
PROC-482	Prep & Submit Structural Steel - Plaza Building	30	0	Dec-19-17 A	Dec-19-17 A	Prep & Submit Structural Steel - Plaza Building
PROC-484	WT Rvw Structural Steel - Plaza Building	5	0	Dec-19-17 A	Dec-19-17 A	□ WT Rvw Structural Steel - Plaza Building
PROC-486	Rvw & Approve Structural Steel - Plaza Building	10	0	Dec-20-17 A	Jan-11-18 A	Rvw & Approve Structural Steel - Plaza Building
PROC-488	Fab & Store Structural Steel - Plaza Building	30	15	Jan-12-18 A	Mar-12-18	Fab & Store Structural Steel - Plaza Building
PROC-490	Prep & Submit Structural Steel - Basement Mezzanines	30	0	Dec-19-17 A	Dec-19-17 A	Prep & Submit Structural Steel - Basement Mezzanines
PROC-492	WT Rvw Structural Steel - Basement Mezzanines	5	0	Dec-19-17 A	Dec-19-17 A	□ WT Rvw Structural Steel - Basement Mezzanines
PROC-494	Rvw & Approve Structural Steel - Basement Mezzanines	10	0	Dec-20-17 A	Jan-11-18 A	Rvw & Approve Structural Steel - Basement Mezzanines
PROC-496	Fab & Store Structural Steel - Basement Mezzanines	30	15	Jan-12-18 A	Mar-12-18	Fab & Store Structural Steel - Basement Mezzanines
PROC-498	Prep & Submit Structural Steel for Ornamental Metal Stairs	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Structural Steel for Ornamental Metal Stairs
PROC-500	WT Rvw Structural Steel for Ornamental Metal Stairs	5	5	Feb-27-18	Mar-5-18	WT Rvw Structural Steel for Ornamental Metal Stairs
PROC-502	Rvw & Approve Structural Steel for Ornamental Metal Stairs	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve Structural Steel for Ornamental Metal Stairs
PROC-504	Fab & Deliver Structural Steel for Ornamental Metal Stairs	30	30	Mar-20-18	Apr-30-18	Fab & Deliver Structural Steel for Ornamental Metal Stairs
05B Misc. Metals						
PROC-176	Prep & Submit Light Court Perforated Guardrails	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Light Court Perforated Guardrails
PROC-178	WT Rvw Light Court Perforated Guardrails	5	5	Feb-27-18	Mar-5-18	WT Rvw Light Court Perforated Guardrails
PROC-180	Rvw & Approve Light Court Perforated Guardrails	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve Light Court Perforated Guardrails
PROC-184	Fab & Deliver Light Court Perforated Guardrail Mock-up Materials	30	30	Mar-20-18	Apr-30-18	Fab & Deliver Light Court Perforated Guardrail Mock-up Materials
D ata Date: Feb-20-18	Remaining Work Gant-12					Thu and the







Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2018 2019 2020    N   D   Jan   F   Mar   Apr   M   Jun   Jul   A   S   Oct   N   D   Jan   F   M   Apr   M   Jun   Jul   A   S   Oct   N   D   Jan   T   D   Jan   D   Jan   T   D   Jan   D   Ja
PROC-186	Install Light Court Perforated Guardrail Mock-ups	10	10	Nov-29-18	Dec-12-18	□ Install Light Court Perforated Guardrail Mo
PROC-188	DT Review Perforated Guardrail Mock-ups	10	10	Dec-13-18	Dec-27-18	□ DT Review Perforated Guardrail Mock-up
PROC-190	Fab & Deliver Light Court Perforated Guardrail	30	30	Dec-28-18	Feb-8-19	Fab & Deliver Light Court Perforated
PROC-506	Prep & Submit Railings	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Railings
PROC-508	WT Rvw Railings	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Railings
PROC-510	Rvw & Approve Railings	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve Railings
PROC-512	Fab & Deliver Railings	30	30	Mar-20-18	Apr-30-18	Fab & Deliver Railings
PROC-514	Prep & Submit Balance of Misc. Metals	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Balance of Misc. Metals
PROC-516	WT Rvw Balance of Misc. Metals	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Balance of Misc. Metals
PROC-518	Rvw & Approve Balance of Misc. Metals	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve Balance of Misc. Metals
PROC-520	Fab & Deliver Balance of Misc. Metals	30	30	Mar-20-18	Apr-30-18	Fab & Deliver Balance of Misc. Metals
06A Millwork & C	Casework					
PROC-192	Prep & Submit Lab Casework	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Lab Casework
PROC-522	WT Rvw Lab Casework	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Lab Casework
PROC-194	Rvw & Approve Lab Casework	20	20	Mar-6-18	Apr-2-18	Rvw & Approve Lab Casework
PROC-206	Fab & Deliver Lab Casework	60	60	Apr-3-18	Jun-26-18	Fab & Deliver Lab Casework
PROC-524	Prep & Submit Millwork	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Millwork
PROC-526	WT Rvw Millwork	5	5	Feb-27-18	Mar-5-18	□ WT R∨w Millwork
PROC-528	Rvw & Approve Millwork	20	20	Mar-6-18	Apr-2-18	Rvw & Approve Millwork
PROC-530	Fab & Deliver Millwork	60	60	Apr-3-18	Jun-26-18	Fab & Deliver Millwork
PROC-532	Prep & Submit Fume Hoods	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Fume Hoods
PROC-534	WT Rvw Fume Hoods	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Fume Hoods
PROC-536	Rvw & Approve Fume Hoods	20	20	Mar-6-18	Apr-2-18	Rvw & Approve Fume Hoods
PROC-538	Fab & Deliver Fume Hoods	60	60	Apr-3-18	Jun-26-18	Fab & Deliver Fume Hoods
07A Roofing						
PROC-424	Prep & Submit Coal-Tar Roofing	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Coal-Tar Roofing
PROC-426	WT Rvw Coal-Tar Roofing	3	3	Feb-27-18	Mar-1-18	■ WT Rvw Coal-Tar Roofing
PROC-428	Rvw & Approve Coal-Tar Roofing	10	10	Mar-2-18	Mar-15-18	■ Rvw & Approve Coal-Tar Roofing
PROC-430	Procure Coal-Tar Roofing Materials	15	15	Mar-16-18	Apr-5-18	Procure Coal-Tar Roofing Materials
PROC-432	Coal-Tar Roofing Mock-up	5	5	Apr-6-18	Apr-12-18	□ Coal-Tar Roofing Mock-up
PROC-434	DT Rvw Coal-Tar Roofing Mock-up	5	5	Apr-13-18	Apr-19-18	■ DT Rvw Coal-Tar Roofing Mock-up
PROC-376	Prep & Submit Unit Pavers	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Unit Pavers
PROC-378	WT Rvw Unit Pavers	5	5	Feb-27-18	Mar-5-18	■ WT Rvw Unit Pavers
PROC-380	Rvw & Approve Unit Pavers	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve Unit Pavers
PROC-388	Fab & Deliver Unit Pavers	50	50	Mar-20-18	May-29-18	Fab & Deliver Unit Pavers
PROC-386	DT QC Mockup Review - Unit Pavers	5	5	May-30-18	Jun-5-18	■ DT QC Mockup Review - Unit Pavers
07B Fireproofing				_		
PROC-398	Prep & Submit Spray Fireproofing	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Spray Fireproofing
PROC-400	WT Rvw Spray Fireproofing	3	3	Feb-27-18	Mar-1-18	WT Rvw Spray Fireproofing
PROC-402	Rvw & Approve Spray Fireproofing	10	10	Mar-2-18	Mar-15-18	Rvw & Approve Spray Fireproofing
D ata Date: Feb-20-18	Remaining Work Gant-12					T







Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2018 2019 2019 2019 2019 2019 2019 2019 2019
PROC-404	Procure Spray Fireproofing Materials	10	10	Mar-16-18	Mar-29-18	Procure Spray Fireproofing Materials
PROC-408	DT QC Mockup Review - Fireproofing	5	5	May-8-18	May-14-18	■ DT QC Mockup Review - Fireproofing
07C Firestopping	·					
PROC-412	Prep & Submit Firestopping	20	0	Dec-19-17 A	Jan-17-18 A	Prep & Submit Firestopping
PROC-414	WT Rvw Firestopping	3	0	Jan-17-18 A	Jan-17-18 A	□ W <mark>T Rvw Firestopping</mark>
PROC-416	Rvw & Approve Firestopping	10	5	Jan-18-18 A	Feb-26-18	Rvw & Approve Firestopping
PROC-418	Procure Firestopping Materials	10	10	Feb-27-18	Mar-12-18	■ Procure Firestopping Materials
PROC-422	DT QC Mockup Review - Firestopping	5	5	Jul-10-18	Jul-16-18	DT QC Mockup Review - Firestopping
08A Glass & Glaz	zing					
PROC-220	Prep & Submit Window & Glass Submittals	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Window & Glass Submittals
PROC-548	WT Rvw Window & Glass Submittals	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Window & Glass Submittals
PROC-222	Rvw & Approve Window & Glass Submittals	15	15	Mar-6-18	Mar-26-18	Rvw & Approve Window & Glass Submittals
PROC-230	Fab & Deliver Window Mock-up Materials	40	40	Mar-27-18	May-21-18	Fab & Deliver Window Mock-up Materials
PROC-234	Fab & Deliver Balance of Windows	45	45	Jun-13-18	Aug-15-18	Fab & Deliver Balance of Windows
PROC-237	Prep & Submit Curtainwall	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Curtainwall
PROC-239	WT Rvw Curtainwall	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Curtainwall
PROC-241	Rvw & Approve Curtainwall	15	15	Mar-6-18	Mar-26-18	Rvw & Approve Curtainwall
PROC-243	Fab & Deliver Curtainwall Mock-up Materials	40	40	Mar-27-18	May-21-18	Fab & Deliver Curtainwall Mock-up Materials
PROC-235	Fab & Deliver Curtainwall	40	40	Jul-27-18	Sep-21-18	Fab & Deliver Curtainwall
PROC-711	Prep & Submit Storefront	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Storefront
PROC-713	WT Rvw Storefront	5	5	Feb-27-18	Mar-5-18	WT Rvw Storefront
PROC-715	Rvw & Approve Storefront	15	15	Mar-6-18	Mar-26-18	Rvw & Approve Storefront
PROC-232	Fab & Deliver Storefront Mock-up Materials	60	60	Mar-27-18	Jun-19-18	Fab & Deliver Storefront Mock-up Materials
PROC-410	Fab & Deliver Balance of Storefront	60	60	Jul-27-18	Oct-19-18	Fab & Deliver Balance of Storefront
PROC-722	Prep & Submit Light Court Point Supported Glass	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Light Court Point Supported Glass
PROC-724	WT Rvw Light Court Point Supported Glass	5	5	Feb-27-18	Mar-5-18	WT Rvw Light Court Point Supported Glass
PROC-726	Rvw & Approve Light Court Point Supported Glass	15	15	Mar-6-18	Mar-26-18	Rvw & Approve Light Court Point Supported Glass
PROC-728	Fab & Deliver Light Court Point Supported Glass	60	60	Mar-27-18	Jun-19-18	Fab & Deliver Light Court Point Supported Glass
PROC-390	Prep & Submit AVB & Sealants	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit AVB & Sealants
PROC-392	WT Rvw AVB & Sealants	5	5	Feb-27-18	Mar-5-18	WT Rvw AVB & Sealants
PROC-394	Rvw & Approve AVB & Sealants	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve AVB & Sealants
PROC-396	Fab & Deliver AVB & Sealants Mock-up Materials	30	30	Mar-20-18	Apr-30-18	Fab & Deliver AVB & Sealants Mock-up Materials
PROC-748	Fab & Deliver AVB & Sealants	30	30	Jul-27-18	Sep-7-18	Fab & Deliver AVB & Sealants
PROC-550	Prep & Submit Composite Wall Panels	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Composite Wall Panels
PROC-552	WT Rvw Composite Wall Panels	5	5	Feb-27-18	Mar-5-18	■ WT Rvw Composite Wall Panels
PROC-554	Rvw & Approve Composite Wall Panels	15	15	Mar-6-18	Mar-26-18	□ Rvw & Approve Composite Wall Panels
PROC-556	Fab & Deliver Composite Wall Panels Mockup Materials	60	60	Mar-27-18	Jun-19-18	Fab & Deliver Composite Wall Panels Mockup Materials
PROC-750	Fab & Deliver Composite Wall Panels	60	60	Jul-27-18	Oct-19-18	Fab & Deliver Composite Wall Panels
PROC-566	Prep & Submit Interior Glazed Walls	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Interior Glazed Walls
PROC-568	WT Rvw Interior Glazed Walls	5	5	Feb-27-18	Mar-5-18	WT Rvw Interior Glazed Walls

Remaining Work

Milestone

Completed Work

Actual Milestone

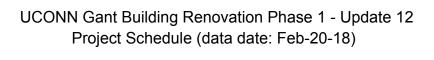




PROC-570 Rvw & Approve Interior Glazed Walls PROC-572 Fab & Deliver Interior Glazed Walls  O9A Carpentry PROC-236 Prep & Submit Doors; Frames & Hardware @ Data Center (Quick Ship) PROC-238 WT Rvw Doors; Frames & Hardware @ Data Center (Quick Ship) PROC-240 Rvw & Approve Interior Glazed Walls  Mar-26-18 Jun-19-18  Dec-19-17 A Feb-26-18 WT Rvw Doors; Frames & Hardware @ Data Center (Quick Ship)  Rvw & Approve Interior Glazed Walls  Brow & Approve I	terior Glazed Walls es & Hardware @ Data Center (Quick Ship) Hardware @ Data Center (Quick Ship) mes & Hardware @ Data Center (Quick Ship mes & Hardware @ Data Center (Quick Ship mes & Hardware @ Data Center (Quick Ship Mock-up Materials sk-up sFRG Materials
PROC-572 Fab & Deliver Interior Glazed Walls  9A Carpentry  PROC-236 Prep & Submit Doors; Frames & Hardware @ Data Center (Quick Ship)  PROC-238 WT Rvw Doors; Frames & Hardware @ Data Center (Quick Ship)  PROC-240 Rvw & Approve Doors; Frames & Hardware @ Data Center (Quick Ship)  PROC-242 Fab & Deliver Doors; Frames & Hardware @ Data Center (Quick Ship)  PROC-242 Fab & Deliver Doors; Frames & Hardware @ Data Center (Quick Ship)  PROC-460 Prep & Submit GFRG  PROC-462 WT Rvw GFRG  PROC-464 Rvw & Approve GFRG  PROC-465 Fab & Deliver GFRG Mock-up Materials  PROC-468 GFRG Mock-up Materials  PROC-470 DT Rvw GFRG Mock-up  PROC-470 TRvw GFRG Materials  PROC-244 Prep & Submit Acoustic Plaster  PROC-246 WT Rvw Acoustic Plaster  PROC-248 Rvw & Approve Acoustic Plaster  PROC-248 Mar-27-18 Jun-19-18  Prep & Submit Doors; Frames & Prep & Submit Doors; Frames & Prep & Submit Doors; Frames & Rvw & Approve	terior Glazed Walls es & Hardware @ Data Center (Quick Ship) Hardware @ Data Center (Quick Ship) mes & Hardware @ Data Center (Quick Ship mes & Hardware @ Data Center (Quick Ship mes & Hardware @ Data Center (Quick Ship Mock-up Materials sk-up sFRG Materials
O9A Carpentry           PROC-236         Prep & Submit Doors; Frames & Hardware @ Data Center (Quick Ship)         5         5         Dec-19-17 A         Feb-26-18           PROC-238         WT Rvw Doors; Frames & Hardware @ Data Center (Quick Ship)         3         3         Feb-27-18         Mar-1-18           PROC-240         Rvw & Approve Doors; Frames & Hardware @ Data Center (Quick Ship)         5         5         Mar-2-18         Mar-8-18           PROC-242         Fab & Deliver Doors; Frames & Hardware @ Data Center (Quick Ship)         10         10         Mar-9-18         Mar-22-18           PROC-460         Prep & Submit GFRG         20         5         Dec-19-17 A         Feb-26-18           PROC-462         WT Rvw GFRG         5         5         Feb-27-18         Mar-5-18           PROC-464         Rvw & Approve GFRG         10         10         Mar-6-18         Mar-19-18           PROC-468         GFRG Mock-up Materials         30         30         Mar-20-18         Apr-30-18           PROC-470         DT Rvw GFRG Mack-up         5         5         May-1-18         May-14-18           PROC-244         Prep & Submit Acoustic Plaster         20         5         Dec-19-17 A         Feb-26-18           Proc & WT Rvw Acoustic Plaster </td <td>es &amp; Hardware @ Data Center (Quick Ship) Hardware @ Data Center (Quick Ship) mes &amp; Hardware @ Data Center (Quick Ship mes &amp; Hardware @ Data Center (Quick Ship mes &amp; Hardware @ Data Center (Quick Ship Mock-up Materials sk-up sFRG Materials</td>	es & Hardware @ Data Center (Quick Ship) Hardware @ Data Center (Quick Ship) mes & Hardware @ Data Center (Quick Ship mes & Hardware @ Data Center (Quick Ship mes & Hardware @ Data Center (Quick Ship Mock-up Materials sk-up sFRG Materials
PROC-236         Prep & Submit Doors; Frames & Hardware @ Data Center (Quick Ship)         5         Dec-19-17 A         Feb-26-18           PROC-238         WT Rvw Doors; Frames & Hardware @ Data Center (Quick Ship)         3         3         Feb-27-18         Mar-1-18           PROC-240         Rvw & Approve Doors; Frames & Hardware @ Data Center (Quick Ship)         5         5         Mar-2-18         Mar-8-18           PROC-242         Fab & Deliver Doors; Frames & Hardware @ Data Center (Quick Ship)         10         10         Mar-9-18         Mar-22-18           PROC-460         Prep & Submit GFRG         20         5         Dec-19-17 A         Feb-26-18           PROC-462         WT Rvw GFRG         5         5         Feb-27-18         Mar-5-18           PROC-464         Rvw & Approve GFRG         5         5         Feb-27-18         Mar-19-18           PROC-464         Rvw & Approve GFRG         10         10         Mar-6-18         Mar-19-18           PROC-466         Fab & Deliver GFRG Mock-up         5         5         May-1-18         May-7-18           PROC-470         DT Rvw GFRG Mock-up         5         5         May-8-18         May-1-18           PROC-244         Prep & Submit Acoustic Plaster         20         5         Dec-19-17 A	Hardware @ Data Center (Quick Ship) mes & Hardware @ Data Center (Quick Ship mes & Hardware @ Data Center (Quick Ship Mock-up Materials sk-up GFRG Materials
PROC-238         WT Rvw Doors; Frames & Hardware @ Data Center (Quick Ship)         3         3         Feb-27-18         Mar-1-18         If WT Rvw Doors; Frames & Hardware @ Data Center (Quick Ship)         If WT Rvw Doors; Frames & Mar-1-18         If Rvw & Approve Doors; Frames & Mar-2-18         If Rvw & Approve Doors; Frames & Mar-2-18         If Rvw & Approve Doors; Frames & Mar-2-18         If Rvw & Approve Doors; Frames & Doors; Frames & Mar-2-18         If Rvw & Approve Doors; Frames & Doors; Prames & Doors; Prames & Doors; Prames & Doors; Prames & Doors; Pra	mes & Hardware @ Data Center (Quick Ship mes & Hardware @ Data Center (Quick Ship Mock-up Materials k-up FRG Materials
PROC-240         Rvw & Approve Doors; Frames & Hardware @ Data Center (Quick Ship)         5         Mar-2-18         Mar-8-18           PROC-242         Fab & Deliver Doors; Frames & Hardware @ Data Center (Quick Ship)         10         10         Mar-9-18         Mar-22-18           PROC-460         Prep & Submit GFRG         20         5         Dec-19-17 A         Feb-26-18           PROC-462         WT Rvw GFRG         5         5         Feb-27-18         Mar-5-18           PROC-464         Rvw & Approve GFRG         10         10         Mar-6-18         Mar-19-18           PROC-466         Fab & Deliver GFRG Mock-up Materials         30         30         Mar-20-18         Apr-30-18           PROC-470         DT Rvw GFRG Mock-up         5         5         May-11-18         May-14-18           PROC-2472         Fab & Deliver GFRG Materials         30         30         May-15-18         Jun-26-18           PROC-244         Prep & Submit Acoustic Plaster         20         5         Dec-19-17 A         Feb-26-18           Prep & Submit Acoustic Plaster         5         Feb-27-18         Mar-5-18         WT Rvw Acoustic Plaster           PROC-248         Rvw & Approve Acoustic Plaster         5         Feb-27-18         Mar-19-18         WT Rvw Approve Acous	mes & Hardware @ Data Center (Quick Ship Mock-up Materials k-up FRG Materials
PROC-460         Prep & Submit GFRG         20         5         Dec-19-17 A         Feb-26-18         Prep & Submit GFRG           PROC-462         WT Rvw GFRG         5         5         Feb-27-18         Mar-5-18         WT Rvw GFRG           PROC-464         Rvw & Approve GFRG         10         10         Mar-6-18         Mar-19-18         Rvw & Approve GFRG           PROC-466         Fab & Deliver GFRG Mock-up Materials         30         30         Mar-20-18         Apr-30-18         Rvw & Approve GFRG           PROC-470         DT Rvw GFRG Mock-up         5         5         May-1-18         May-7-18         GFRG Mock-up         DT Rvw GFRG Mock-up	Mock-up Materials k-up FRG Materials
PROC-462         WT Rvw GFRG         5         5         Feb-27-18         Mar-5-18           PROC-464         Rvw & Approve GFRG         10         10         Mar-6-18         Mar-19-18           PROC-466         Fab & Deliver GFRG Mock-up Materials         30         30         Mar-20-18         Apr-30-18           PROC-468         GFRG Mock-up         5         5         May-1-18         May-7-18           PROC-470         DT Rvw GFRG Mock-up         5         5         May-8-18         May-14-18           PROC-472         Fab & Deliver GFRG Materials         30         30         May-15-18         Jun-26-18           PROC-244         Prep & Submit Acoustic Plaster         20         5         Dec-19-17 A         Feb-26-18           PROC-246         WT Rvw Acoustic Plaster         5         Feb-27-18         Mar-5-18           PROC-248         Rvw & Approve Acoustic Plaster         10         10         Mar-6-18         Mar-19-18	k-up FRG Materials
PROC-464         Rvw & Approve GFRG         10         10         Mar-6-18         Mar-19-18           PROC-466         Fab & Deliver GFRG Mock-up Materials         30         30         Mar-20-18         Apr-30-18           PROC-468         GFRG Mock-up         5         5         May-1-18         May-7-18           PROC-470         DT Rvw GFRG Mock-up         5         5         May-8-18         May-14-18           PROC-472         Fab & Deliver GFRG Materials         30         30         May-15-18         Jun-26-18           PROC-244         Prep & Submit Acoustic Plaster         20         5         Dec-19-17 A         Feb-26-18           PROC-246         WT Rvw Acoustic Plaster         5         5         Feb-27-18         Mar-5-18           PROC-248         Rvw & Approve Acoustic Plaster         10         10         Mar-6-18         Mar-19-18	k-up FRG Materials
PROC-466         Fab & Deliver GFRG Mock-up Materials         30         30         Mar-20-18         Apr-30-18         Fab & Deliver GFRG           PROC-468         GFRG Mock-up         5         5         May-1-18         May-7-18         GFRG Mock-up         GFRG Mock-up         DT Rvw GFRG Mock-up         <	k-up FRG Materials
PROC-468         GFRG Mock-up         5         5         May-1-18         May-7-18           PROC-470         DT Rvw GFRG Mock-up         5         5         May-8-18         May-14-18           PROC-472         Fab & Deliver GFRG Materials         30         30         May-15-18         Jun-26-18           PROC-244         Prep & Submit Acoustic Plaster         20         5         Dec-19-17 A         Feb-26-18           PROC-246         WT Rvw Acoustic Plaster         5         5         Feb-27-18         Mar-5-18           PROC-248         Rvw & Approve Acoustic Plaster         10         10         Mar-6-18         Mar-19-18	k-up FRG Materials
PROC-470         DT Rvw GFRG Mock-up         5         5         May-8-18         May-14-18         ■ DT Rvw GFRG Mock-up           PROC-472         Fab & Deliver GFRG Materials         30         30         May-15-18         Jun-26-18         ■ Fab & Deliver GFRG Mock-up           PROC-244         Prep & Submit Acoustic Plaster         20         5         Dec-19-17 A         Feb-26-18         ■ Prep & Submit Acoustic Plaster           PROC-246         WT Rvw Acoustic Plaster         5         5         Feb-27-18         Mar-5-18         ■ WT Rvw Acoustic Plaster           PROC-248         Rvw & Approve Acoustic Plaster         10         10         Mar-6-18         Mar-19-18         ■ Rvw & Approve Acoustic	FRG Materials
PROC-472 Fab & Deliver GFRG Materials  PROC-244 Prep & Submit Acoustic Plaster  PROC-246 WT Rvw Acoustic Plaster  PROC-248 Rvw & Approve Acoustic Plaster  10 10 Mar-6-18 Mar-19-18  Jun-26-18 Fab & Deliver Company of the process of	FRG Materials
PROC-244 Prep & Submit Acoustic Plaster  PROC-246 WT Rvw Acoustic Plaster  PROC-248 Rvw & Approve Acoustic Plaster  10 10 Mar-6-18 Mar-19-18  Prep & Submit Acoustic Plaster  WT Rvw Acoustic Plaster  Rvw & Approve Acoustic Plaster	
PROC-246 WT Rvw Acoustic Plaster 5 5 Feb-27-18 Mar-5-18 PROC-248 Rvw & Approve Acoustic Plaster 10 10 Mar-6-18 Mar-19-18 □ Rvw & Approve Acoustic Plaster □ Rvw & Approve Acoustic	ster
PROC-248 Rvw & Approve Acoustic Plaster 10 10 Mar-6-18 Mar-19-18	
PROC-250 Fab & Deliver Acoustic Plaster Mock-up Materials 10 10 Mar-20-18 Apr-2-18 🗖 Fab & Deliver Acoustic	Plaster
, in a second of the second of	Plaster Mock-up Materials
PROC-252 Acoustic Plaster Mock-up 5 5 Apr-3-18 Apr-9-18 • Acoustic Plaster Mock-	ıp
PROC-254 DT Rvw Acoustic Plaster Mock-up 5 5 Apr-10-18 Apr-16-18 DT Rvw Acoustic Plaster	er Mock-up
PROC-256 Fab & Deliver Acoustic Plaster Materials 10 10 Apr-17-18 Apr-30-18 🗖 Fab & Deliver Acoustic	
PROC-208 Prep & Submit Spray Foam Insulation 20 5 Dec-19-17 A Feb-26-18 Prep & Submit Spray Foam	Insulation
PROC-210 WT Rvw Spray Foam Insulation 5 5 Feb-27-18 Mar-5-18 UT Rvw Spray Foam Insu	
PROC-212 Rvw & Approve Spray Foam Insulation 10 10 Mar-6-18 Mar-19-18 Rvw & Approve Spray Fo	
	ulation Materials (Window Mock-up)
PROC-286 Prep & Submit Window Treatments 20 5 Dec-19-17 A Feb-26-18 Prep & Submit Window Treatments	
PROC-540 Prep & Submit Laser Curtains 30 5 Dec-19-17 A Feb-26-18 Prep & Submit Laser Curtains	
PROC-288 WT Rvw Window Treatments 5 5 Feb-27-18 Mar-5-18 UT Rvw Window Treatment	ts
PROC-542 WT Rvw Laser Curtains 5 5 Feb-27-18 Mar-5-18 UT Rvw Laser Curtains	
PROC-290 Rvw & Approve Window Treatments 10 10 Mar-6-18 Mar-19-18	i i i i i i i i i i i i i i i i i i i
PROC-544 Rvw & Approve Laser Curtains 20 20 Mar-6-18 Apr-2-18 Rvw & Approve Laser C	
PROC-292 Fab & Deliver Window Treatment Mock-up 30 30 Mar-20-18 Apr-30-18 Fab & Deliver Windo	
PROC-294 Window Treatment Mock-up 20 20 May-1-18 May-29-18 Window Treatment	
PROC-296 DT Rvw Window Treatment Mock-up 5 5 May-30-18 Jun-5-18	
PROC-546 Fab & Deliver Laser Curtains 60 60 Apr-3-18 Jun-26-18 Fab & Deliver L	
THOU 200 THE GENERAL TOTAL TO SELECT	Window Treatments
PROC-582 Prep & Submit Doors; Frames & Hardware 30 5 Dec-19-17 A Feb-26-18 Prep & Submit Doors; Fram	
PROC-584 WT Rvw Doors; Frames & Hardware 5 5 Feb-27-18 Mar-5-18 UT Rvw Doors; Frames &	
PROC-586 Rvw & Approve Doors; Frames & Hardware 10 10 Mar-6-18 Mar-19-18 Rvw & Approve Doors; Frames & Hardware	ames & Hardware



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tivity ID	Activity Name	Original Duration		Start	Finish	2018 2019 2019 2019 2019 2019 2019 2019 2019
PROC-590	Fab & Deliver Doors Frames	30	30	Mar-20-18	Apr-30-18	Fab & Deliver Doors Frames
PROC-588	Fab & Deliver Doors & Hardware	60	60	Mar-20-18	Jun-12-18	Fab & Deliver Doors & Hardware
PROC-592	Prep & Submit Toilet Partitions	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Toilet Partitions
PROC-594	WT Rvw Toilet Partitions	5	5	Feb-27-18	Mar-5-18	■ WT Rvw Toilet Partitions
PROC-596	Rvw & Approve Toilet Partitions	10	10	Mar-6-18	Mar-19-18	□ Rvw & Approve Toilet Partitions
PROC-598	Fab & Deliver Toilet Partitions	60	60	Mar-20-18	Jun-12-18	Fab & Deliver Toilet Partitions
PROC-574	Prep & Submit Suspended Steel Channel Framing System	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Suspended Steel Channel Framing System
PROC-576	WT Rvw Suspended Steel Channel Framing System	5	5	Feb-27-18	Mar-5-18	WT Rvw Suspended Steel Channel Framing System
PROC-578	Rvw & Approve Suspended Steel Channel Framing System	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve Suspended Steel Channel Framing System
PROC-580	Fab & Deliver Suspended Steel Channel Framing System	60	60	Mar-20-18	Jun-12-18	Fab & Deliver Suspended Steel Channel Framing System
09B Flooring		l				
PROC-124	Prep & Submit Floor Leveling Underlayment	20	5	Dec-14-17 A	Feb-26-18	Prep & Submit Floor Leveling Underlayment
PROC-126	WT Rvw Floor Leveling Underlayment	5	5	Feb-27-18	Mar-5-18	WT Rvw Floor Leveling Underlayment
PROC-128	Rvw & Approve Floor Leveling Underlayment	10	10	Mar-6-18	Mar-19-18	□ Rvw & Approve Floor Leveling Underlayment
PROC-130	Procure Floor Leveling Underlayment Materials	10	10	Mar-20-18	Apr-2-18	□ Procure Floor Leveling Underlayment Materials
PROC-132	Floor Leveling Underlayment Mock-up	5	5	Apr-3-18	Apr-9-18	■ Floor Leveling Underlayment Mock-up
PROC-134	DT Rvw Floor Leveling Underlayment QC Mock-up	10	10	Apr-10-18	Apr-23-18	DT Rvw Floor Leveling Underlayment QC Mock-up
PROC-600	Prep & Submit Flooring	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Flooring
PROC-602	WT Rvw Flooring	5	5	Feb-27-18	Mar-5-18	■ WT Rvw Flooring
PROC-604	Rvw & Approve Flooring	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve Flooring
PROC-606	Fab & Deliver Flooring	50	50	Mar-20-18	May-29-18	Fab & Deliver Flooring
09C Tile						
PROC-272	Prep & Submit Tile	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Tile
PROC-274	WT Rvw Tile	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Tile
PROC-276	Rvw & Approve Tile	10	10	Mar-6-18	Mar-19-18	□ Rvw & Approve Tile
PROC-278	Fab & Deliver Tile Mock-up Materials	30	30	Mar-20-18	Apr-30-18	Fab & Deliver Tile Mock-up Materials
PROC-280	Tile Mock-ups	5	5	May-1-18	May-7-18	□ Tile Mock-ups
PROC-282	DT Rvw Tile Mock-ups	5	5	May-8-18	May-14-18	□ DT Rvw Tile Mock-ups
PROC-284	Fab & Deliver Tile	50	50	May-15-18	Jul-25-18	Fab & Deliver Tile
09D Terrazzo						
PROC-258	Prep & Submit Terrazzo Flooring	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Terrazzo Flooring
PROC-260	WT Rvw Terrazzo Flooring	5	5	Feb-27-18	Mar-5-18	■ WT Rvw Terrazzo Flooring
PROC-262	Rvw & Approve Terrazzo Flooring	10	10	Mar-6-18	Mar-19-18	□ Rvw & Approve Terrazzo Flooring
PROC-264	Fab & Deliver Terrazzo Flooring Mock-up Materials	15	15	Mar-20-18	Apr-9-18	☐ Fab & Deliver Terrazzo Flooring Mock-up Materials ☐
PROC-266	Terrazzo Flooring Mock-up	5	5	Apr-10-18	Apr-16-18	<ul><li>Terrazzo Flooring Mock-up</li></ul>
PROC-268	DT Rvw Terrazzo Flooring Mock-up	5	5	Apr-17-18	Apr-23-18	■ DT Rvw Terrazzo Flooring Mock-up
PROC-270	Fab & Deliver Terrazzo Flooring	15	15	Apr-24-18	May-14-18	□ Fab & Deliver Terrazzo Flooring
09E Paint						
PROC-610	Prep & Submit Paint	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Paint
PROC-612	WT Rvw Paint	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Paint

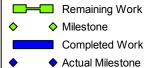


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tivity ID	Activity Name	Original Duration		Start	Finish	2018 2019
PROC-614	Rvw & Approve Paint	10	10	Mar-6-18	Mar-19-18	N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D  Rvw & Approve Paint
PROC-616	Procure Paint Materials	15	15	Mar-20-18	Apr-9-18	□ Procure Paint Materials
10A Signage	Flocure Failit Materials	10	10	IVIAI-20-16	Api-9-10	
PROC-624	Prep & Submit Signage	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Signage
PROC-626	WT Rvw Signage	5	5	Feb-27-18	Mar-5-18	□ WT Rvw Signage
PROC-628	Rvw & Approve Signage	10	10	Mar-6-18	Mar-19-18	□ Rvw & Approve Signage
PROC-630	Fab & Deliver Signage	30	30	Mar-20-18	Apr-30-18	Fab & Deliver Signage
14A Elevator	- Late of Leaves Cagnage				7 Ip. 00 10	
PROC-300	Prep & Submit Elevators	40	0	Dec-14-17 A	Jan-23-18 A	Prep & Submit Elevators
PROC-302	WT Rvw Elevators	5	0	Jan-23-18 A	Feb-6-18 A	■ WT Rvw Elevators
PROC-304	Rvw & Approve Elevators	10	2	Feb-7-18 A	Feb-21-18	Rvw & Approve Elevators
PROC-306	Fab & Deliver Elevators	60	60	Feb-22-18	May-16-18	Fab & Deliver Elevators
22A Plumbing				<u> </u>	,	
PROC-632	Prep & Submit Plumbing Equipment	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Plumbing Equipment
PROC-634	WT Rvw Plumbing Equipment	5	5	Feb-27-18	Mar-5-18	WT Rvw Plumbing Equipment
PROC-636	Rvw & Approve Plumbing Equipment	10	10	Mar-6-18	Mar-19-18	□ Rvw & Approve Plumbing Equipment
PROC-638	Fab & Deliver Plumbing Equipment	40	40	Mar-20-18	May-14-18	Fab & Deliver Plumbing Equipment
PROC-740	Prep & Submit Plumbing Fixtures	30	5	Dec-19-17 A	Feb-26-18	Prep & Submit Plumbing Fixtures
PROC-742	WT Rvw Plumbing Fixtures	5	5	Feb-27-18	Mar-5-18	WT Rvw Plumbing Fixtures
PROC-744	Rvw & Approve Plumbing Fixtures	10	10	Mar-6-18	Mar-19-18	■ Rvw & Approve Plumbing Fixtures
PROC-746	Fab & Deliver Plumbing Fixtures	40	40	Mar-20-18	May-14-18	Fab & Deliver Plumbing Fixtures
PROC-436	Prep & Submit Plumbing Insulation	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Plumbing Insulation
PROC-438	WT Rvw Plumbing Insulation	3	3	Feb-27-18	Mar-1-18	■ WT Rvw Plumbing Insulation
PROC-440	Rvw & Approve Plumbing Insulation	10	10	Mar-2-18	Mar-15-18	□ Rvw & Approve Plumbing Insulation
PROC-442	Procure Plumbing Insulation Materials	15	15	Mar-16-18	Apr-5-18	□ Procure Plumbing Insulation Materials
PROC-446	DT QC Mockup Review - Plumbing Insulation	5	5	Jun-6-18	Jun-12-18	DT QC Mockup Review - Plumbing Insulation
23A HVAC						
PROC-308	Prep & Submit Data Center Temp AHU & Plan	7	0	Dec-19-17 A	Jan-26-18 A	Prep & Submit Data Center Temp AHU & Plan
PROC-310	WT Rvw Data Center Temp AHU Plan	3	0	Jan-29-18 A	Jan-29-18 A	□ WT Rvw Data Center Temp AHU Plan
PROC-312	Rvw & Approve Data Center Temp AHU & Plan	5	0	Jan-30-18 A	Feb-5-18 A	■ Rvw & Approve Data Center Temp AHU & Plan
PROC-314	Fab & Deliver Data Center Temp AHU	50	39	Feb-5-18 A	Apr-13-18	Fab & Deliver Data Center Temp AHU
PROC-316	Prep & Submit AHU's & Exhaust Fans	20	0	Dec-19-17 A	Feb-8-18 A	Prep & Submit AHU's & Exhaust Fans
PROC-318	WT Rvw AHU's & Exhaust Fans	3	1	Feb-9-18 A	Feb-20-18	■ WT Rvw AHU's & Exhaust Fans
PROC-320	Rvw & Approve AHU's & Exhaust Fans	10	10	Feb-21-18	Mar-6-18	□ Rvw & Approve AHU's & Exhaust Fans
PROC-322	Revise & Resubmit AHU's & Fans	10	10	Mar-7-18	Mar-20-18	□ Revise & Resubmit AHU's & Fans
PROC-324	WT Rvw AHU & Fans Resubmittal	3	3	Mar-21-18	Mar-23-18	□ WT Rvw AHU & Fans Resubmittal
PROC-326	Rvw & Approve AHU & Fans Resubmital	10	10	Mar-26-18	Apr-6-18	□ Rvw & Approve AHU & Fans Resubmital
PROC-328	Fab & Deliver AHU's & Exhaust Fans	80	80	Apr-9-18	Jul-31-18	Fab & Deliver AHU's & Exhaust Fans
PROC-640	Prep & Submit Balance of Mechanical Equipment	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Balance of Mechanical Equipment
PROC-642	WT Rvw Balance of Mechanical Equipment	3	3	Feb-27-18	Mar-1-18	■ WT Rvw Balance of Mechanical Equipment



Gant-12





tivity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2018 2019 2019 2019 X D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D A
PROC-644	Rvw & Approve Balance of Mechanical Equipment	10	10	Mar-2-18	Mar-15-18	Rvw & Approve Balance of Mechanical Equipment
PROC-652	Fab & Deliver Balance of Mechanical Equipment	30	30	Mar-16-18	Apr-26-18	Fab & Deliver Balance of Mechanical Equipment
PROC-448	Prep & Submit HVAC Insulation	20	0	Dec-19-17 A	Feb-9-18 A	Prep & Submit HVAC Insulation
PROC-450	WT Rvw HVAC Insulation	3	2	Feb-12-18 A	Feb-21-18	■ WT Rvw HVAC Insulation
PROC-452	Rvw & Approve HVAC Insulation	10	10	Feb-22-18	Mar-7-18	□ Rvw & Approve HVAC Insulation
PROC-454	Procure HVAC Insulation Materials	15	15	Mar-8-18	Mar-28-18	□ Procure HVAC Insulation Materials
PROC-458	DT QC Mockup Review - HVAC Insulation	5	5	Jun-6-18	Jun-12-18	DT QC Mockup Review - HVAC Insulation
23B Controls					<u> </u>	
PROC-332	Prep & Submit Controls Submittals	40	5	Dec-19-17 A	Feb-26-18	Prep & Submit Controls Submittals
PROC-330	Controls Integration Meeting	1	1	Mar-1-18	Mar-1-18	□ Controls Integration Meeting
PROC-334	Rvw & Approve Controls Submittals	25	25	Feb-27-18	Apr-2-18	Rvw & Approve Controls Submittals
PROC-336	Fab & Deliver Controls	30	30	Apr-3-18	May-14-18	Fab & Deliver Controls
26A Electrical			<u>'</u>			
PROC-338	Prep & Submit Switchgear	25	7	Dec-19-17 A	Feb-28-18	Prep & Submit Switchgear
PROC-340	WT Rvw Switchgear	3	3	Mar-1-18	Mar-5-18	■ WT Rvw Switchgear
PROC-342	Rvw & Approve Switchgear	10	10	Mar-6-18	Mar-19-18	Rvw & Approve Switchgear
PROC-344	Revise & Resubmit Switchgear	15	15	Mar-20-18	Apr-9-18	□ Revise & Resubmit Switchgear
PROC-346	WT Rvw Switchgear	3	3	Apr-10-18	Apr-12-18	□ WT Rvw Switchgear
PROC-348	Rvw & Approve Switchgear	10	10	Apr-13-18	Apr-26-18	□ Rvw & Approve Switchgear
PROC-350	Switchgear Pre-Energization Meeting	1	1	May-30-18	May-30-18	Switchgear Pre-Energization Meeting
PROC-352	Fab & Deliver Switchgear (Quick Ship Basebid)	70	70	Apr-27-18	Aug-6-18	Fab & Deliver Switchgear (Quick Ship Basebid)
PROC-668	Prep & Submit Electrical Switchboard/Panel Boards	25	7	Dec-19-17 A	Feb-28-18	Prep & Submit Electrical Switchboard/Panel Boards
PROC-670	WT Rvw Electrical Switchboard/Panel Boards	3	3	Mar-1-18	Mar-5-18	■ WT Rvw Electrical Switchboard/Panel Boards
PROC-672	Rvw & Approve Electrical Switchboard/Panel Boards	10	10	Mar-6-18	Mar-19-18	□ Rvw & Approve Electrical Switchboard/Panel Boards
PROC-674	Revise & Resubmit Electrical Switchboard/Panel Boards	15	15	Mar-20-18	Apr-9-18	Revise & Resubmit Electrical Switchboard/Panel Boards
PROC-676	WT Rvw Electrical Switchboard/Panel Boards	3	3	Apr-10-18	Apr-12-18	□ WT Rvw Electrical Switchboard/Panel Boards
PROC-678	Rvw & Approve Electrical Switchboard/Panel Boards	10	10	Apr-13-18	Apr-26-18	■ Rvw & Approve Electrical Switchboard/Panel Boards
PROC-680	Fab & Deliver Electrical Switchboard/Panel Boards	70	70	Apr-27-18	Aug-6-18	Fab & Deliver Electrical Switchboard/Panel Boards
PROC-662	Prep & Submit Electrical Short Circuit Study	15	7	Dec-19-17 A	Feb-28-18	Prep & Submit Electrical Short Circuit Study
PROC-664	WT Rvw Electrical Short Circuit Study	3	3	Mar-1-18	Mar-5-18	■ WT Rvw Electrical Short Circuit Study
PROC-666	Rvw & Approve Electrical Short Circuit Study	10	10	Mar-6-18	Mar-19-18	Rvw & Approve Electrical Short Circuit Study
PROC-354	Prep & Submit Light Fixtures	20	0	Dec-19-17 A	Jan-3-18 A	Prep & Submit Light Fixtures
PROC-356	WT Rvw Light Fixtures	3	0	Jan-4-18 A	Feb-12-18 A	WT Rvw Light Fixtures
PROC-358	Rvw & Approve Light Fixtures	20	15	Feb-13-18 A	Mar-12-18	Rvw & Approve Light Fixtures
PROC-360	Fab & Deliver Light Fixtures	50	50	Mar-13-18	May-21-18	Fab & Deliver Light Fixtures
PROC-654	Prep & Submit Lighting Controls	20	0	Dec-19-17 A	Jan-25-18 A	Frep & Submit Lighting Controls
PROC-656	WT Rvw Lighting Controls	3	0	Jan-26-18 A	Feb-16-18 A	■ WT Rvw Lighting Controls
PROC-658	Rvw & Approve Lighting Controls	20	19	Feb-19-18 A	Mar-16-18	Rvw & Approve Lighting Controls
PROC-660	Fab & Deliver Lighting Controls	30	30	Mar-19-18	Apr-27-18	Fab & Deliver Lighting Controls
PROC-698	Prep & Submit Fire Alarm	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Fire Alarm

Remaining Work

Milestone

Completed Work

Actual Milestone





'ID	Activity Name	Origina Duration		Start	Finish	2018 2019  N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D
PROC-700	WT Rvw Fire Alarm	3	3	Feb-27-18	Mar-1-18	WT Rvw Fire Alarm
PROC-702	Rvw & Approve Fire Alarm	20	20	Mar-2-18	Mar-29-18	Rvw & Approve Fire Alarm
PROC-704	Fab & Deliver Fire Alarm	30	30	Mar-30-18	May-10-18	Fab & Deliver Fire Alarm
PROC-682	Prep & Submit Security	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Security
PROC-684	WT Rvw Security	3	3	Feb-27-18	Mar-1-18	■ WT Rvw Security
PROC-686	Rvw & Approve Security	20	20	Mar-2-18	Mar-29-18	Rvw & Approve Security
PROC-688	Fab & Deliver Security	30	30	Mar-30-18	May-10-18	Fab & Deliver Security
PROC-690	Prep & Submit Projection Screens	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Projection Screens
PROC-692	WT Rvw Projection Screens	3	3	Feb-27-18	Mar-1-18	■ WT Rvw Projection \$creens
PROC-694	Rvw & Approve Projection Screens	20	20	Mar-2-18	Mar-29-18	Rvw & Approve Projection Screens
PROC-696	Fab & Deliver Projection Screens	30	30	Mar-30-18	May-10-18	Fab & Deliver Projection Screens
6B Tele/Data	,				,	
PROC-706	Prep & Submit Tele/Data	20	0	Dec-19-17 A	Jan-16-18 A	Prep & Submit Tele/Data
PROC-708	WT Rvw Tele/Data	3	3	Jan-17-18 A	Feb-22-18	WT Rvw Tele/Data
PROC-710	Rvw & Approve Tele/Data	20	20	Feb-23-18	Mar-22-18	Rvw & Approve Tele/Data
PROC-712	Fab & Deliver Tele/Data	30	30	Mar-23-18	May-3-18	Fab & Deliver Tele/Data
1A Sitework				1	-	
PROC-362	Prep & Submit Drilled Piles	20	0	Dec-19-17 A	Jan-22-18 A	Prep & Submit Drilled Piles
PROC-364	WT Rvw Drilled Piles	3	0	Jan-23-18 A	Jan-31-18 A	■ WT Rvw Drilled Piles
PROC-366	Rvw & Approve Drilled Piles	10	5	Feb-1-18 A	Feb-26-18	Rvw & Approve Drilled Piles
PROC-368	Fab & Deliver Drilled Pile Materials & Cordination	15	15	Feb-27-18	Mar-19-18	☐ Fab & Deliver Drilled Pile Materials & Cordination
PROC-370	Prep & Submit Site Utilities	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Site Utilities
PROC-372	WT Rvw Site Utilities	3	3	Feb-27-18	Mar-1-18	■ WT Rvw Site Utilities
PROC-374	Rvw & Approve Site Utilities	10	10	Mar-2-18	Mar-15-18	□ Rvw & Approve Site Utilities
PROC-714	Prep & Submit Sitework	20	5	Dec-19-17 A	Feb-26-18	Prep & Submit Sitework
PROC-716	WT Rvw Sitework	3	3	Feb-27-18	Mar-1-18	■ WT Rvw Sitework
PROC-718	Rvw & Approve Sitework	10	10	Mar-2-18	Mar-15-18	□ Rvw & Approve Sitework
PROC-720	Fab & Deliver Sitework	30	30	Mar-16-18	Apr-26-18	Fab & Deliver Sitework
BIM Coordinatio	on & MEP Fab			I .	•	
BIM-130	BIM Coordination Risers	38	1	Dec-19-17 A	Feb-20-18	BIM Coordination Risers
BIM-132	Rvw & Approve BIM Coordination Risers	5	5	Feb-21-18	Feb-27-18	Rvw & Approve BIM Coordination Risers
BIM-134	Fab & Deliver MEP Riser Materials	20	20	Feb-28-18	Mar-27-18	Fab & Deliver MEP Riser Materials
BIM-100	BIM Coordination 4th Floor	30	4	Jan-8-18 A	Feb-23-18	BIM Coordination 4th Floor
BIM-102	Rvw & Approve BIM Coordination 4th Floor	5	5	Feb-26-18	Mar-2-18	Rvw & Approve BIM Coordination 4th Floor
BIM-104	Fab & Deliver Ductwork 4th Floor	10	10	Mar-5-18	Mar-16-18	■ Fab & Deliver Ductwork 4th Floor
BIM-106	BIM Coordination 3rd Floor	30	9	Jan-22-18 A	Mar-2-18	BIM Coordination 3rd Floor
BIM-108	Rvw & Approve BIM Coordination 3rd Floor	5	5	Mar-5-18	Mar-9-18	Rvw & Approve BIM Coordination 3rd Floor
BIM-110	Fab & Deliver Ductwork - 3rd Floor	10	10	Mar-12-18	Mar-23-18	□ Fab & Deliver Ductwork - 3rd Floor
BIM-112	BIM Coordination 2nd Floor	30	15	Jan-29-18 A	Mar-16-18	BIM Coordination 2nd Floor
BIM-114	Rvw & Approve BIM Coordination 2nd Floor	5	5	Mar-19-18	Mar-23-18	Rvw & Approve BIM Coordination 2nd Floor







y ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2018 2019 2019 2019 2019 N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N
BIM-116	Fab & Deliver Ductwork - 2nd Floor	10	10	Mar-26-18	Apr-6-18	□ Fab & Deliver Ductwork - 2nd Floor
BIM-118	BIM Coordination 1st Floor	30	15	Feb-5-18 A	Mar-30-18	BIM Coordination 1st Floor
BIM-120	Rvw & Approve BIM Coordination 1st Floor	5	5	Apr-2-18	Apr-6-18	■ Rvw & Approve BIM Coordination 1st Floor
BIM-122	Fab & Deliver Ductwork 1st Floor	10	10	Apr-9-18	Apr-20-18	□ Fab & Deliver Ductwork 1st Floor
BIM-124	BIM Coordination Ground	20	20	Feb-12-18 A	Apr-13-18	BIM Coordination Ground
BIM-126	Rvw & Approve BIM Coordination Ground & Underslab	10	10	Apr-16-18	Apr-27-18	■ Rvw & Approve BIM Coordination Ground & Underslab
BIM-128	Fab & Deliver Ductwork - Ground	10	10	Apr-30-18	May-11-18	□ Fab & Deliver Ductwork - Ground
ONSTRUCT	TON					
lobilization &						
MOB-10	Start Construction & Mobilize Site	0	0	Jan-2-18 A		♦ Start Construction & Mobilize Site
MOB-12	Start Demo & Construction Period	0	0	Jan-2-18 A		♦ Sta <mark>r</mark> t Demo & Construction Period
MOB-18	Staging /Laydown Area Setup	5	0	Jan-8-18 A	Jan-12-18 A	■ St <mark>a</mark> ging /Laydown Area Setup
MOB-14	Pre-Demolition Balancing Meeting	1	0	Jan-23-18 A	Jan-23-18 A	□ Pre-Demolition Balancing Meeting
MOB-16	Install Site Fencing	5	0	Jan-15-18 A	Feb-8-18 A	Install Site Fencing
MOB-22	Install Temp. Walls; Tunnels & Separation Walls	5	0	Jan-8-18 A	Feb-16-18 A	Install Temp. Walls; Tunnels & Separation Walls
MOB-24	Install temp openings & Protections	5	0	Jan-8-18 A	Feb-16-18 A	Install temp openings & Protections
MOB-20	Field Office Set-Up	5	0	Jan-3-18 A	Feb-19-18 A	Field Office Set-Up
MOB-26	Pre-Balancing Meeting	1	1	May-7-18	May-7-18	□ Pre-Balancing Meeting
exterior Upgra	ades					
Mock-ups	DT OC Mackup Davious Coal Tay Daving	F	F	May 14 10	May 10 10	■ DT QC Mockup Review - Coal-Tar Roofing
EXT-126	DT QC Mockup Review - Coal-Tar Roofing	5	5	May-14-18	May-18-18	□ DT QC Mock-up Review - Masonry Cleaning Pre-wasl
EXT-104	DT QC Mock-up Review - Masonry Cleaning Pre-wash	10	10	May-22-18	Jun-5-18	□ DT QC Mock-up Review - Masonry Restoration
EXT-102	DT QC Mock-up Review - Masonry Restoration	10	10	May-30-18	Jun-12-18	□ DT QC Mock-up Review - Masonly Restolation
EXT-310	DT QC Mock-up Review - Concrete Repairs	10	10	May-30-18	Jun-12-18	DT QC Mock-up Review - Final Masonry Cleaning
EXT-332	DT QC Mock-up Review - Final Masonry Cleaning	10	10	Jun-20-18	Jul-5-18	■ Window Mock-up - Exterior
EXT-110	Window Mock-up - Exterior	5	5	May-22-18	May-29-18	DT Rvw & Approve Window Mock-up - Exterior
EXT-111	DT Rvw & Approve Window Mock-up - Exterior	10	10	May-30-18	Jun-12-18	Construct Exterior Wall Unit Panel Mock-up
EXT-204	Construct Exterior Wall Unit Panel Mock-up	15	15	Jun-20-18	Jul-12-18	□ DT Review Exterior Wall Unit Panel Mock-up
EXT-308	DT Review Exterior Wall Unit Panel Mock-up	10	10	Jul-13-18	Jul-26-18	DI Review Exterior Wall Offit Parier Wock-up
Roof EXT-118	Roof Repair & Replacement; Install curbs	50	50	May-7-18	Jul-18-18	Roof Repair & Replacement; Install curbs
South East Fac		00		may 7 10	001 10 10	
EXT-100	Scaffolding for Exterior Facade Restoration	10	10	Apr-24-18	May-14-18	Scaffolding for Exterior Facade Restoration
EXT-312	Masonry Pre-Wash - South East Facade	5	5	May-15-18	May-21-18	Masonry Pre-Wash - South East Facade
EXT-106	Masonry/Concrete Restoration - South East Facade	15	15	May-22-18	Jun-12-18	Masonry/Concrete Restoration - South East Facade
EXT-322	Final Masonry Cleaning - South East Facade	5	5	Jun-13-18	Jun-19-18	□ Final Masonry Cleaning - South East Facade
EXT-334	Keim Coating - South East Facade	5	5	Jul-6-18	Jul-12-18	Keim Coating - South East Facade
South West Fac	•					
EXT-314	Masonry Pre-Wash - South West Facade	5	5	May-22-18	May-29-18	Masonry Pre-Wash - South West Facade
EXT-108	Masonry/Concrete Restoration - South West Facade	15	15	Jun-13-18	Jul-5-18	■ Masonry/Concrete Restoration - South West Faca
EXT-324	Final Masonry Cleaning - South West Facade	5	5	Jul-6-18	Jul-12-18	■ Final Masonry Cleaning - South West Facade

Remaining Work

Milestone

Completed Work

Actual Milestone





	Duration	Duration			
Koim Cooting Couth Woot Econdo	5	5	Jul-13-18	Jul-19-18	N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan F
Keim Coating - South West Facade					Install New Curtain wall - South Elevation Col. I
	25	25	Sep-24-18"	OCI-26-18	Install New Cultain wall - South Elevation Col. L
	5	5	May-30-18	.lun-5-18	□ Masonry Pre-Wash - North East Facade
·			•		Masonry/Concrete Restoration - North East Facade
•					□ Final Masonry Cleaning - North East Facade
, ,				-	■ Keim Coating - North East Facade
		0	7 tag 0 10	7 (49 0 10	
Masonry Pre-Wash - North West Facade	5	5	Jun-6-18	Jun-12-18	Masonry Pre-Wash - North West Facade
Masonry/Concrete Restoration - North West Facade	15	15	Jul-27-18	Aug-17-18	Masonry/Concrete Restoration - North West Facade
Final Masonry Cleaning - North West Facade	5	5	Aug-20-18	Aug-28-18	□ Final Masonry Cleaning - North West Facade
, ,	5	5		<u> </u>	■ Keim Coating - North West Facade
			<u> </u>		
Masonry Pre-Wash - East Facade	5	5	Jun-13-18	Jun-19-18	□ Masonry Pre-Wash - East Facade
Masonry/Concrete Restoration - East Facade	15	15	Aug-20-18	Sep-12-18	Masonry/Concrete Restoration - East Facade
Final Masonry Cleaning - East Facade	5	5	Sep-13-18	Sep-19-18	□ Final Masonry Cleaning - East Facade
Keim Coating - East Facade	5	5	Sep-20-18	Sep-26-18	Keim Coating - East Facade
New Storefront - East Elevation (Levels 2-4)	25	25	Oct-22-18	Nov-26-18	New Storefront - East Elevation (Levels 2-4)
				'	
Granite Base	10	10	Sep-10-18	Sep-21-18	□ Granite Base
New Storefront - Level 1	25	25	Oct-22-18	Nov-26-18	New Storefront - Level 1
Composite Wall Panel	25	25	Nov-27-18	Jan-9-19	Composite Wall Panel
Remove Existing and Install New Elevator - Infrastructure	50	50	Sep-4-18*	Nov-12-18	Remove Existing and Install New Elevator - In
	10	10	Apr 10 19	Apr 22 19	□ Demo South Wing East Elevator
Defilo South Wing East Elevator	10	10	Api-10-16	Apr-23-16	- Demo Gouin Wing Last Lievator
Rig AHU's - Infrastructure (Roof)	3	3	Aug-1-18	Aug-3-18	■ Rig AHU's - Infrastructure (Roof)
-			<del>-</del>	-	AHU Piping & Connections - Infrastructure (Ro
, ,					Start-Up & Commission AHU's - Infrastr
etait op a commission/moc minastractare (recor)			200 1 10	54.1 5 T5	
Investigate Systems for shutdowns - 4th Floor	5	0	Jan-8-18 A	Jan-12-18 A	Investigate Systems for shutdowns - 4th Floor
Demo Soft-Strip - 4th Floor	10	0	Jan-8-18 A	Jan-17-18 A	■ Demo Soft-Strip - 4th Floor
Demo & Abatement - 4th Floor	25	15	Feb-1-18 A	Mar-12-18	Demo & Abatement - 4th Floor
Demo Punch List - 4th Floor	5	5	Mar-13-18	Mar-19-18	□ Demo Punch List - 4th Floor
Self-Leveling Floors - 4th Floor	7	7	Apr-3-18	Apr-11-18	■ Self-Leveling Floors - 4th Floor
Chop Slabs at New Openings - 4th Floor	10	10	Apr-3-18	Apr-16-18	□ Chop Slabs at New Openings - 4th Floor
Form; Reinforce & Pour Concrete Slab Infills - 4th Floor	7	7	•	· .	□ Form; Reinforce & Pour Concrete Slab Infills - 4th Floor
·	10	10	•	•	□ Exterior Wall Framing & Firesafing - 4th Floor
Structural Infill at South Wing East Elevator for New Electrical Rooms - 4th Floor	5	5	Apr-24-18	May-7-18	☐ Structural Infill at South Wing East Elevator for New Electrical Ro
	Install New Curtain wall - South Elevation Col. D-D.9  Masonry Pre-Wash - North East Facade Masonry Cleaning - North East Facade Final Masonry Cleaning - North East Facade Keim Coating - North East Facade Masonry Pre-Wash - North West Facade Masonry Pre-Wash - North West Facade Masonry Cleaning - North West Facade Final Masonry Cleaning - North West Facade Masonry Pre-Wash - East Facade Keim Coating - North West Facade Masonry Pre-Wash - East Facade Masonry Pre-Wash - East Facade Masonry Pre-Wash - East Facade Masonry Cleaning - East Facade Masonry Cleaning - East Facade Masonry Cleaning - East Facade Keim Coating - East Facade New Storefront - East Elevation (Levels 2-4)  Granite Base New Storefront - Level 1 Composite Wall Panel  Remove Existing and Install New Elevator - Infrastructure  Mill Demo South Wing East Elevator  Rig AHU's - Infrastructure (Roof) AHU Piping & Connections - Infrastructure (Roof)  Start-Up & Commission AHU's - Infrastructure (Roof)  Investigate Systems for shutdowns - 4th Floor Demo Soft-Strip - 4th Floor Demo & Abatement - 4th Floor Demo Punch List - 4th Floor Demo Punch List - 4th Floor Demo Punch List - 4th Floor Chop Slabs at New Openings - 4th Floor Form; Reinforce & Pour Concrete Slab Infills - 4th Floor Exterior Wall Framing & Firesafing - 4th Floor	Install New Curtain wall - South Elevation Col. D-D.9         25           Masonry Pre-Wash - North East Facade         5           Masonry/Concrete Restoration - North East Facade         15           Final Masonry Cleaning - North East Facade         5           Keim Coating - North East Facade         5           Masonry Pre-Wash - North West Facade         15           Masonry/Concrete Restoration - North West Facade         15           Final Masonry Cleaning - North West Facade         5           Keim Coating - North West Facade         5           Masonry Pre-Wash - East Facade         5           Masonry/Concrete Restoration - East Facade         15           Final Masonry Cleaning - East Facade         5           Mesonry/Concrete Restoration - East Facade         5           Keim Coating - East Facade         5           Keim Coating - East Facade         5           Keim Coating - East Facade         5           New Storefront - East Elevation (Levels 2-4)         25           Granite Base         10           New Storefront - Level 1         25           Composite Wall Panel         25           Remove Existing and Install New Elevator - Infrastructure         50           Remove Existing and Install New Elevator - Infrastructure         50	Install New Curtain wall - South Elevation Col. D-D.9         25         25           Masonry Pre-Wash - North East Facade         5         5           Masonry/Concrete Restoration - North East Facade         15         15           Final Masonry Cleaning - North East Facade         5         5           Keim Coating - North East Facade         5         5           Masonry Pre-Wash - North West Facade         15         15           Masonry/Concrete Restoration - North West Facade         5         5           Keim Coating - North West Facade         5         5           Keim Coating - North West Facade         5         5           Masonry Pre-Wash - East Facade         5         5           Masonry/Concrete Restoration - East Facade         15         15           Masonry/Concrete Restoration - East Facade         5         5           Keim Coating - East Facade         5         5           Keim Coating - East Facade         5         5           Keim Coating - East Facade         5         5           New Storefront - East Elevation (Levels 2-4)         25         25           Granite Base         10         10           New Storefront - Level 1         25         25           Composite Wall Panel	Install New Curtain wall - South Elevation Col. D-D.9	Install New Ourtain wall - South Elevation Col. D-D.9   25   25   Sep-24-18*   Oct-26-18



Gant-12





Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2018 2019 2020  N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr
S-4-110	Ductwork Overhead Rough-In - 4th Floor	20	20	Apr-12-18	May-16-18	Ductwork Overhead Rough-In - 4th Floor
S-4-107	Elevator Infill Slab Cure Time - 4th Floor	8	8	May-8-18	May-17-18	□ Elevator Infill Slab Cure Time - 4th Floor
S-4-114	MEP Riser Installation - 4th Floor	20	20	Apr-17-18	May-21-18	■ MEP Riser Installation - 4th Floor
S-4-220	MEP Riser Testing & Inspections - 4th Floor	5	5	May-22-18	May-29-18	■ MEP Riser Testing & Inspections - 4th Floor
S-4-222	MEP Riser Insulation - 4th Floor	5	5	May-30-18	Jun-5-18	■ MEP Riser Insulation - 4th Floor
S-4-120	Mech Piping Overhead Rough-in - 4th Floor	20	20	May-17-18	Jun-14-18	☐ Mech Piping Overhead Rough-in - 4th Floor
S-4-122	Electrical Overhead Rough-in - 4th Floor	20	20	May-17-18	Jun-14-18	Electrical Overhead Rough-in - 4th Floor
S-4-224	MEP Riser Shaft Enclosure - 4th Floor	10	10	Jun-6-18	Jun-19-18	■ MEP Riser Shaft Enclosure - 4th Floor
S-4-124	Wall Framing - 4th Floor	10	10	Jun-15-18	Jun-28-18	□ Wall Framing - 4th Floor
S-4-126	Install Door Frames - 4th Floor	5	5	Jun-22-18	Jun-28-18	□ Install Door Frames - 4th Floor
S-4-130	MEP In-Wall Rough-In - 4th Floor	20	20	Jul-2-18	Jul-30-18	── MEP In-Wall Rough-In - 4th Floor
S-4-118	Mech piping Overhead Rough-in - 4th Floor	20	20	Jul-23-18	Aug-20-18	Mech piping Overhead Rough-in - 4th Floor
S-4-132	In-Wall Inspections and Punchlists - 4th Floor	15	15	Jul-31-18	Aug-21-18	☐ In-Wall Inspections and Punchlists - 4th Floor
S-4-128	Window Installation - 4th Floor	10	10	Sep-26-18	Oct-9-18	□ Window Installation - 4th Floor
S-4-134	Drywall & Taping - 4th Floor	15	15	Oct-10-18	Oct-30-18	Drywall & Taping - 4th Floor
S-4-136	Prime and 1st Coat of Paint - 4th Floor	5	5	Oct-31-18	Nov-6-18	□ Prime and 1st Coat of Paint - 4th Floor
S-4-216	Lab Suspended Steel Channel Assemblies	7	7	Nov-7-18	Nov-15-18	□ Lab Suspended Steel Channel Assemblies
S-4-140	Ceiling Grid & Cuts - 4th Floor	10	10	Nov-7-18	Nov-20-18	□ Ceiling Grid & Cuts - 4th Floor
S-4-212	Ceiling MEP Service Panels at Labs	5	5	Nov-21-18	Nov-28-18	□ Ceiling MEP Service Panels at Labs
S-4-142	Diffusers - 4th Floor	10	10	Nov-21-18	Dec-5-18	□ Diffusers - 4th Floor
S-4-144	Light Fixtures; Fire Alarm; etc - 4th Floor	10	10	Nov-21-18	Dec-5-18	□ Light Fixtures; Fire Alarm; etc - 4th Floor
S-4-146	Fire Protection Drops - 4th Floor	10	10	Nov-21-18	Dec-5-18	□ Fire Protection Drops - 4th Floor
S-4-148	Floor Prep & Flooring - 4th Floor	10	10	Dec-6-18	Dec-27-18	□ Floor Prep & Flooring - 4th Floor
S-4-202	Bathroom Wall & Floor Tile	10	10	Dec-6-18	Dec-27-18	□ Bathroom Wall & Floor Tile
S-4-204	Bathroom Plumbing Fixtures	3	3	Dec-28-18	Jan-2-19	■ Bathroom Plumbing Fixtures
S-4-150	Above Ceiling Inspections and Punchlist - 4th F	Floor 15	15	Dec-6-18	Jan-4-19	Above Ceiling Inspections and Punchlist
S-4-206	Toilet Partitions & Accessories	5	5	Jan-3-19	Jan-9-19	□ Toilet Partitions & Accessories
S-4-152	Lab Casework; Fume Hoods; & Millwork Install	- 4th Floor 15	15	Dec-28-18	Jan-18-19	□ Lab Casework; Fume Hoods; & Millwor
S-4-226	Lab Plumbing Fixtures	3	3	Jan-21-19	Jan-23-19	■ Lab Plumbing Fixtures
S-4-154	Install Doors & Hardware - 4th Floor	10	10	Jan-14-19	Jan-25-19	□ Install Doors & Hardware - 4th Floor
S-4-156	Ceiling Pads - 4th Floor	10	10	Jan-21-19	Feb-1-19	□ Ceiling Pads - 4th Floor
S-4-158	Interior Glazing - 4th Floor	5	5	Jan-28-19	Feb-1-19	■ Interior Glazing - 4th Floor
S-4-160	MEP Trim Out - 4th Floor	15	15	Jan-21-19	Feb-8-19	☐ MEP Trim Out - 4th Floor
S-4-162	Final Coat of Paint - 4th Floor	5	5	Feb-11-19	Feb-15-19	□ Final Coat of Paint - 4th Floor
S-4-164	Test; Balance & Adjust - 4th Floor	20	20	Feb-4-19	Mar-1-19	Test; Balance & Adjust - 4th Floor
S-4-166	Final Finishes & Touch-up - 4th Floor	10	10	Feb-18-19	Mar-1-19	□ Final Finishes & Touch-up - 4th Flo
S-4-168	W-T Punchlist and Completion - 4th Floor	15	15	Mar-4-19	Mar-22-19	□ W-T Punchlist and Completion -
S-4-170	Clean; Inspect; & Punch list - 4th Floor	30	30	Mar-25-19	May-10-19	Clean; Inspect; & Punch lis
3rd Floor					10.10.5	I Investigate Systems for abutdowns 2nd Floor
S-3-100	Investigate Systems for shutdowns - 3rd Floor	5	0	Jan-8-18 A	Jan-12-18 A	■ Investigate Systems for shutdowns - 3rd Floor
D ata Date: Feb-20-1	· · · · · · · · · · · · · · · · · · ·	Gant-12	ildina Do	novetion Phase	1 Undata 12	TDUOCIV

♦ Milestone
 Completed Work
 ♦ Actual Milestone





S-3-104 De S-3-108 De S-3-166 Su S-3-218 Fo S-3-228 Se S-3-106 Ch S-3-110 Ex S-3-105 Str S-3-118 ME S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	emo Soft-Strip - 3rd Floor emo & Abatement - 3rd Floor emo Punch List - 3rd Floor upport Steel at Underside of 4th Floor for New Openings orm; Reinforce & Pour Concrete Slab Infills - 3rd Floor elf-Leveling Floors - 3rd Floor hop Slabs at New Openings - 3rd Floor xterior Wall Framing & Firesafing - 3rd Floor tructural Infill at South Wing East Elevator for New Electrical Rooms - 3rd Floor EP Riser Installation - 3rd Floor evator Infill Slab Cure Time - 3rd Floor EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor EP Riser Shaft Enclosure - 3rd Floor	10 25 5 5 7 7 10 10 5 20 8 5 20	0 15 5 7 7 10 10 5 20 8 5	Jan-31-18 A Feb-6-18 A Mar-20-18 Mar-27-18 Apr-10-18 Apr-12-18 Apr-17-18 Apr-26-18 May-18-18 May-8-18 Jun-6-18	Feb-12-18 A Mar-19-18 Mar-26-18 Apr-2-18 Apr-18-18 Apr-20-18 May-7-18 May-16-18 May-24-18 Jun-5-18 Jun-6-18	Demo Soft-Strip - 3rd Floor  Demo Soft-Strip - 3rd Floor  Demo & Abatement - 3rd Floor  Demo Punch List - 3rd Floor  Support Steel at Underside of 4th Floor for New Openings  Form; Reinforce & Pour Concrete Slab Infills - 3rd Floor  Self-Leveling Floors - 3rd Floor  Chop Slabs at New Openings - 3rd Floor  Exterior Wall Framing & Firesafing - 3rd Floor  Structural Infill at South Wing East Elevator for New Electrical F  MEP Riser Installation - 3rd Floor  Elevator Infill Slab Cure Time - 3rd Floor  MEP Riser Testing & Inspections - 3rd Floor
S-3-104 De S-3-108 De S-3-166 Su S-3-218 Fo S-3-228 Se S-3-106 Ch S-3-110 Ex S-3-105 Str S-3-118 ME S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	emo & Abatement - 3rd Floor emo Punch List - 3rd Floor upport Steel at Underside of 4th Floor for New Openings orm; Reinforce & Pour Concrete Slab Infills - 3rd Floor elf-Leveling Floors - 3rd Floor hop Slabs at New Openings - 3rd Floor exterior Wall Framing & Firesafing - 3rd Floor tructural Infill at South Wing East Elevator for New Electrical Rooms - 3rd Floor EP Riser Installation - 3rd Floor levator Infill Slab Cure Time - 3rd Floor EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor	5 5 7 7 10 10 5 20 8 5 20	5 5 7 7 10 10 5 20 8 5	Mar-20-18 Mar-27-18 Apr-10-18 Apr-12-18 Apr-17-18 Apr-26-18 May-18-18 May-8-18 May-25-18	Mar-26-18 Apr-2-18 Apr-18-18 Apr-20-18 May-7-18 May-16-18 May-24-18 Jun-5-18 Jun-6-18	<ul> <li>Demo Punch List - 3rd Floor</li> <li>Support Steel at Underside of 4th Floor for New Openings</li> <li>Form; Reinforce &amp; Pour Concrete Slab Infills - 3rd Floor</li> <li>Self-Leveling Floors - 3rd Floor</li> <li>Chop Slabs at New Openings - 3rd Floor</li> <li>Exterior Wall Framing &amp; Firesafing - 3rd Floor</li> <li>Structural Infill at South Wing East Elevator for New Electrical F</li> <li>MEP Riser Installation - 3rd Floor</li> <li>Elevator Infill Slab Cure Time - 3rd Floor</li> </ul>
S-3-108 De S-3-166 Su S-3-218 Fo S-3-228 Se S-3-106 Ch S-3-110 Ex S-3-105 Str S-3-118 ME S-3-107 Ele S-3-220 ME S-3-222 ME	upport Steel at Underside of 4th Floor for New Openings orm; Reinforce & Pour Concrete Slab Infills - 3rd Floor elf-Leveling Floors - 3rd Floor hop Slabs at New Openings - 3rd Floor exterior Wall Framing & Firesafing - 3rd Floor tructural Infill at South Wing East Elevator for New Electrical Rooms - 3rd Floor EP Riser Installation - 3rd Floor levator Infill Slab Cure Time - 3rd Floor EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor	5 7 7 10 10 5 20 8 5 20	5 7 7 10 10 5 20 8 5	Mar-27-18 Apr-10-18 Apr-12-18 Apr-17-18 Apr-26-18 May-18-18 May-8-18 May-25-18	Apr-2-18 Apr-18-18 Apr-20-18 May-7-18 May-16-18 May-24-18 Jun-5-18 Jun-6-18	<ul> <li>Support Steel at Underside of 4th Floor for New Openings</li> <li>Form; Reinforce &amp; Pour Concrete Slab Infills - 3rd Floor</li> <li>Self-Leveling Floors - 3rd Floor</li> <li>Chop Slabs at New Openings - 3rd Floor</li> <li>Exterior Wall Framing &amp; Firesafing - 3rd Floor</li> <li>Structural Infill at South Wing East Elevator for New Electrical F</li> <li>MEP Riser Installation - 3rd Floor</li> <li>Elevator Infill Slab Cure Time - 3rd Floor</li> </ul>
S-3-166 Su S-3-218 Fo S-3-228 Se S-3-106 Ch S-3-110 Ex S-3-105 Str S-3-118 ME S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	orm; Reinforce & Pour Concrete Slab Infills - 3rd Floor elf-Leveling Floors - 3rd Floor hop Slabs at New Openings - 3rd Floor kterior Wall Framing & Firesafing - 3rd Floor tructural Infill at South Wing East Elevator for New Electrical Rooms - 3rd Floor EP Riser Installation - 3rd Floor levator Infill Slab Cure Time - 3rd Floor EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor	7 7 10 10 5 20 8 5 20	7 7 10 10 5 20 8 5	Apr-10-18 Apr-12-18 Apr-17-18 Apr-26-18 May-18-18 May-8-18	Apr-18-18 Apr-20-18 May-7-18 May-16-18 May-24-18 Jun-5-18 Jun-6-18	<ul> <li>□ Form; Reinforce &amp; Pour Concrete Slab Infills - 3rd Floor</li> <li>□ Self-Leveling Floors - 3rd Floor</li> <li>□ Chop Slabs at New Openings - 3rd Floor</li> <li>□ Exterior Wall Framing &amp; Firesafing - 3rd Floor</li> <li>□ Structural Infill at South Wing East Elevator for New Electrical F</li> <li>□ MEP Riser Installation - 3rd Floor</li> <li>□ Elevator Infill Slab Cure Time - 3rd Floor</li> </ul>
S-3-228 Se S-3-106 Ch S-3-110 Ex S-3-105 Str S-3-118 ME S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	elf-Leveling Floors - 3rd Floor hop Slabs at New Openings - 3rd Floor exterior Wall Framing & Firesafing - 3rd Floor tructural Infill at South Wing East Elevator for New Electrical Rooms - 3rd Floor EP Riser Installation - 3rd Floor levator Infill Slab Cure Time - 3rd Floor EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor	7 10 10 5 20 8 5 20	10 10 5 20 8 5	Apr-12-18 Apr-17-18 Apr-26-18 May-18-18 May-8-18 May-25-18	Apr-18-18 Apr-20-18 May-7-18 May-16-18 May-24-18 Jun-5-18 Jun-6-18	<ul> <li>Self-Leveling Floors - 3rd Floor</li> <li>Chop Slabs at New Openings - 3rd Floor</li> <li>Exterior Wall Framing &amp; Firesafing - 3rd Floor</li> <li>Structural Infill at South Wing East Elevator for New Electrical F</li> <li>MEP Riser Installation - 3rd Floor</li> <li>Elevator Infill Slab Cure Time - 3rd Floor</li> </ul>
S-3-106 Ch S-3-110 Ex S-3-105 Str S-3-118 ME S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	hop Slabs at New Openings - 3rd Floor  Atterior Wall Framing & Firesafing - 3rd Floor  Attructural Infill at South Wing East Elevator for New Electrical Rooms - 3rd Floor  EP Riser Installation - 3rd Floor  Evator Infill Slab Cure Time - 3rd Floor  EP Riser Testing & Inspections - 3rd Floor  uctwork Overhead Rough-In - 3rd Floor  EP Riser Insulation - 3rd Floor	10 10 5 20 8 5 20	10 10 5 20 8 5	Apr-17-18 Apr-26-18 May-18-18 May-8-18 May-25-18	May-7-18 May-16-18 May-24-18 Jun-5-18 Jun-6-18	Chop Slabs at New Openings - 3rd Floor  Exterior Wall Framing & Firesafing - 3rd Floor  Structural Infill at South Wing East Elevator for New Electrical F  MEP Riser Installation - 3rd Floor  Elevator Infill Slab Cure Time - 3rd Floor
S-3-110 Ex S-3-105 Str S-3-118 ME S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	kterior Wall Framing & Firesafing - 3rd Floor tructural Infill at South Wing East Elevator for New Electrical Rooms - 3rd Floor EP Riser Installation - 3rd Floor levator Infill Slab Cure Time - 3rd Floor EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor	10 5 20 8 5 20	10 5 20 8 5	Apr-26-18 May-18-18 May-8-18 May-25-18	May-16-18 May-24-18 Jun-5-18 Jun-6-18	<ul> <li>Exterior Wall Framing &amp; Firesafing - 3rd Floor</li> <li>Structural Infill at South Wing East Elevator for New Electrical F</li> <li>MEP Riser Installation - 3rd Floor</li> <li>Elevator Infill Slab Cure Time - 3rd Floor</li> </ul>
S-3-105 Str S-3-118 ME S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	tructural Infill at South Wing East Elevator for New Electrical Rooms - 3rd Floor EP Riser Installation - 3rd Floor levator Infill Slab Cure Time - 3rd Floor EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor	5 20 8 5 20	5 20 8 5	May-18-18 May-8-18 May-25-18	May-24-18 Jun-5-18 Jun-6-18	<ul> <li>Structural Infill at South Wing East Elevator for New Electrical F</li> <li>MEP Riser Installation - 3rd Floor</li> <li>Elevator Infill Slab Cure Time - 3rd Floor</li> </ul>
S-3-118 ME S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	EP Riser Installation - 3rd Floor levator Infill Slab Cure Time - 3rd Floor EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor	20 8 5 20	20 8 5	May-8-18 May-25-18	Jun-5-18 Jun-6-18	■ MEP Riser Installation - 3rd Floor ■ Elevator Infill Slab Cure Time - 3rd Floor
S-3-107 Ele S-3-220 ME S-3-112 Du S-3-222 ME	levator Infill Slab Cure Time - 3rd Floor  EP Riser Testing & Inspections - 3rd Floor  uctwork Overhead Rough-In - 3rd Floor  EP Riser Insulation - 3rd Floor	8 5 20	8 5	May-25-18	Jun-6-18	□ Elevator Infill Slab Cure Time - 3rd Floor
S-3-220 ME S-3-112 Du S-3-222 ME	EP Riser Testing & Inspections - 3rd Floor uctwork Overhead Rough-In - 3rd Floor EP Riser Insulation - 3rd Floor	5 20	5	<u> </u>		
S-3-112 Du S-3-222 ME	uctwork Overhead Rough-In - 3rd Floor  EP Riser Insulation - 3rd Floor	20		Jun-6-18	lup 12 10	MED Riser Testing & Inspections - 3rd Floor
S-3-222 ME	EP Riser Insulation - 3rd Floor		20		Juli-12-10	with triber resuring & inspections - Sid ribor
		5		May-17-18	Jun-14-18	Ductwork Overhead Rough-In - 3rd Floor
	EP Riser Shaft Enclosure - 3rd Floor	-	5	Jun-13-18	Jun-19-18	■ MEP Riser Insulation - 3rd Floor
S-3-224 ME		10	10	Jun-20-18	Jul-5-18	■ MEP Riser Shaft Enclosure - 3rd Floor
S-3-114 Me	ech Piping Overhead Rough-in - 3rd Floor	20	20	Jun-15-18	Jul-16-18	Mech Piping Overhead Rough-in - 3rd Floor
S-3-116 Ele	ectrical Overhead Rough-in - 3rd Floor	20	20	Jun-15-18	Jul-16-18	Electrical Overhead Rough-in - 3rd Floor
S-3-120 Wa	/all Framing - 3rd Floor	10	10	Jul-17-18	Jul-30-18	□ Wall Framing - 3rd Floor
S-3-122 Ins	stall Door Frames - 3rd Floor	5	5	Jul-24-18	Jul-30-18	□ Install Door Frames - 3rd Floor
S-3-124 ME	EP In-Wall Rough-In - 3rd Floor	20	20	Jul-31-18	Aug-30-18	■ MEP In-Wall Rough-In - 3rd Floor
S-3-128 In-	-Wall Inspections and Punchlists - 3rd Floor	15	15	Aug-31-18	Sep-21-18	□ In-Wall Inspections and Punchlists - 3rd Floor
S-3-126 Wi	/indow Installation - 3rd Floor	10	10	Oct-2-18	Oct-15-18	□ Window Installation - 3rd Floor
S-3-130 Dr	rywall & Taping - 3rd Floor	15	15	Oct-16-18	Nov-5-18	□ Drywall & Taping - 3rd Floor
S-3-132 Pri	rime & 1st Coat of Paint - 3rd Floor	5	5	Nov-6-18	Nov-12-18	□ Prime & 1st Coat of Paint - 3rd Floor
S-3-134 Ce	eiling Grid & Cuts - 3rd Floor	10	10	Nov-13-18	Nov-27-18	□ Ceiling Grid & Cuts - 3rd Floor
S-3-136 Dif	iffusers - 3rd Floor	10	10	Nov-28-18	Dec-18-18	Diffusers - 3rd Floor
S-3-138 Lig	ght Fixtures - 3rd Floor	10	10	Nov-28-18	Dec-18-18	□ Light Fixtures - 3rd Floor
S-3-140 Fir	re Protection Heads - 3rd Floor	10	10	Nov-28-18	Dec-18-18	☐ Fire Protection Heads - 3rd Floor
S-3-142 Ab	bove Ceiling Inspections and Punchlists - 3rd Floor	10	10	Dec-19-18	Jan-3-19	□ Above Ceiling Inspections and Punchlist
S-3-144 Flo	oor Prep & Flooring - 3rd Floor	10	10	Dec-19-18	Jan-3-19	□ Floor Prep & Flooring - 3rd Floor
S-3-200 Ba	athroom Wall & Floor Tile	10	10	Dec-19-18	Jan-3-19	□ Bathroom Wall & Floor Tile
S-3-202 Ba	athroom Plumbing Fixtures	3	3	Jan-4-19	Jan-8-19	□ Bathroom Plumbing Fixtures
S-3-204 Toi	oilet Partitions & Accessories	5	5	Jan-9-19	Jan-15-19	□ Toilet Partitions & Accessories
S-3-146 Ins	stall Doors & Hardware - 3rd Floor	10	10	Jan-4-19	Jan-17-19	□ Install Doors & Hardware - 3rd Floor
S-3-148 Int	terior Glazing - 3rd Floor	10	10	Jan-18-19	Jan-31-19	□ Interior Glazing - 3rd Floor
S-3-150 La	ab Casework; Millwork Install - 3rd Floor	15	15	Jan-14-19	Feb-1-19	□ Lab Casework; Millwork Install - 3rd F
S-3-226 La	ab Plumbing Fixtures	3	3	Feb-4-19	Feb-6-19	■ Lab Plumbing Fixtures
S-3-152 Ce	eiling Pads - 3rd Floor	10	10	Feb-4-19	Feb-15-19	□ Ceiling Pads - 3rd Floor
S-3-154 ME	EP Trim Out - 3rd Floor	15	15	Feb-4-19	Feb-22-19	■ MEP Trim Out - 3rd Floor



Gant-12





Activity ID	Activity Name	Original Duration		Start	Finish	2018 2019 2020  N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan 5 M Apr M Apr M Jun Jul A S Oct N D Jan 5 M Apr M Ap
S-3-156	Final Coat of Paint - 3rd Floor	4	4	Feb-25-19	Feb-28-19	■ Final Coat of Paint - 3rd Floor
S-3-158	Final Finishes & Touch-up - 3rd Floor	10	10	Mar-1-19	Mar-14-19	□ Final Finishes & Touch-up - 3rd F
S-3-160	Test; Balance & Adjust - 3rd Floor	20	20	Feb-18-19	Mar-15-19	── Test; Balance & Adjust - 3rd Floo
S-3-162	W-T Punchlist & Modifications - 3rd Floor	15	15	Mar-15-19	Apr-4-19	■ W-T Punchlist & Modifications -
S-3-164	Clean; Inspect; & Punch list - 3rd Floor	20	20	Apr-5-19	May-9-19	Clean; Inspect; & Punch lis
2nd Floor					•	
S-2-100	Investigate Systems for Shutdowns - 2nd Floor	10	0	Jan-16-18 A	Jan-29-18 A	Investigate Systems for Shutdowns - 2nd Floor
S-2-102	Demo Soft-Strip - 2nd Floor	10	0	Jan-31-18 A	Feb-6-18 A	■ Demo Soft-Strip - 2nd Floor
S-2-104	Demo & Abatement - 2nd Floor	25	15	Feb-13-18 A	Mar-26-18	Demo & Abatement - 2nd Floor
S-2-108	Demo Punch List - 2nd Floor	5	5	Mar-27-18	Apr-2-18	Demo Punch List - 2nd Floor
S-2-166	Support Steel at Underside of 3rd Floor for New Openings	5	5	Apr-10-18	Apr-16-18	Support Steel at Underside of 3rd Floor for New Openings
S-2-218	Form; Reinforce & Pour Concrete Slab Infills - 2nd Floor	7	7	Apr-10-18	Apr-18-18	■ Form; Reinforce & Pour Concrete Slab Infills - 2nd Floor
S-2-228	Self-Leveling Floors - 2nd Floor	7	7	Apr-23-18	May-8-18	□ Self-Leveling Floors - 2nd Floor
S-2-106	Chop Slabs at New Openings - 2nd Floor	10	10	Apr-24-18	May-14-18	Chop Slabs at New Openings - 2nd Floor
S-2-110	Exterior Wall Framing & Firesafing - 2nd Floor	10	10	May-17-18	May-31-18	□ Exterior Wall Framing & Firesafing - 2nd Floor
S-2-105	Structural Infill at South Wing East Elevator for New Electrical Rooms - 2nd Floo	5	5	Jun-7-18	Jun-13-18	Structural Infill at South Wing East Elevator for New Electrica
S-2-118	MEP Riser Installation - 2nd Floor	20	20	May-22-18	Jun-19-18	MEP Riser Installation - 2nd Floor
S-2-107	Elevator Infill Slab Cure Time - 2nd Floor	8	8	Jun-14-18	Jun-25-18	□ Elevator Infill Slab Cure Time - 2nd Floor
S-2-220	MEP Riser Testing & Inspections - 2nd Floor	5	5	Jun-20-18	Jun-26-18	MEP Riser Testing & Inspections - 2nd Floor
S-2-112	Ductwork Overhead Rough-In - 2nd Floor	20	20	Jun-1-18	Jun-28-18	Ductwork Overhead Rough-In - 2nd Floor
S-2-222	MEP Riser Insulation - 2nd Floor	5	5	Jun-27-18	Jul-5-18	■ MEP Riser Insulation - 2nd Floor
S-2-224	MEP Riser Shaft Enclosure - 2nd Floor	10	10	Jul-6-18	Jul-19-18	■ MEP Riser Shaft Enclosure - 2nd Floor
S-2-114	Mech Piping Overhead Rough-in - 2nd Floor	20	20	Jul-2-18	Jul-30-18	Mech Piping Overhead Rough-in - 2nd Floor
S-2-116	Electrical Overhead Rough-in - 2nd Floor	20	20	Jul-2-18	Jul-30-18	Electrical Overhead Rough-in - 2nd Floor
S-2-120	Wall Framing - 2nd Floor	10	10	Jul-31-18	Aug-14-18	□ Wall Framing - 2nd Floor
S-2-122	Install Door Frames - 2nd Floor	5	5	Aug-7-18	Aug-14-18	□ Install Door Frames - 2nd Floor
S-2-124	MEP In-Wall Rough-In - 2nd Floor	20	20	Aug-15-18	Sep-14-18	── MEP In-Wall Rough-In - 2nd Floor
S-2-128	In-Wall Inspections and Punchlists - 2nd Floor	15	15	Sep-17-18	Oct-5-18	□ In-Wall Inspections and Punchlists - 2nd Floor
S-2-126	Window Installation - 2nd Floor	10	10	Oct-8-18	Oct-19-18	□ Window Installation - 2nd Floor
S-2-130	Drywall & Taping - 2nd Floor	15	15	Oct-22-18	Nov-9-18	□ Drywall & Taping - 2nd Floor
S-2-132	Prime & 1st Coat of Paint - 2nd Floor	5	5	Nov-12-18	Nov-16-18	□ Prime & 1st Coat of Paint - 2nd Floor
S-2-134	Ceiling Grid & Cuts - 2nd Floor	10	10	Nov-19-18	Dec-3-18	□ Ceiling Grid & Cuts - 2nd Floor
S-2-136	Light Fixtures; Fire Alarm; Tele/Comm etc 2nd Floor	10	10	Dec-4-18	Dec-24-18	□ Light Fixtures; Fire Alarm; Tele/Comm etc
S-2-138	Diffusers - 2nd Floor	10	10	Dec-4-18	Dec-24-18	☐ Diffusers - 2nd Floor
S-2-140	Fire Protection Drops - 2nd Floor	10	10	Dec-4-18	Dec-24-18	☐ Fire Protection Drops - 2nd Floor
S-2-142	Floor Prep & Flooring - 2nd Floor	10	10	Dec-26-18	Jan-9-19	□ Floor Prep & Flooring - 2nd Floor
S-2-200	Bathroom Wall & Floor Tile	10	10	Dec-26-18	Jan-9-19	□ Bathroom Wall & Floor Tile
S-2-202	Bathroom Plumbing Fixtures	3	3	Jan-10-19	Jan-14-19	■ Bathroom Plumbing Fixtures
S-2-144	Above Ceiling Inspections and Punchlists - 2nd Floor	15	15	Dec-26-18	Jan-16-19	☐ Above Ceiling Inspections and Punchlis
S-2-204	Toilet Partitions & Accessories	5	5	Jan-15-19	Jan-21-19	□ Toilet Partitions & Accessories
D ata Date: Feb-20-18	Remaining Work Gant-12			novation Phase 1		TDUOCIV

♦ Milestone
 Completed Work
 ♦ Actual Milestone





		maining iration	Start	Finish	2018 2019 2020    N   D   Jan   F   Mar   Apr   M   Jun   Jul   A   S   Oct   N   D   Jan   F   M   Apr   M   Jun   Jul   A   S   Oct   N   D   Jan   E   D   D   D   D   D   D   D   D   D											
or	5	5	Jan-17-19	Jan-23-19	Ceiling Pads - 2nd Floor											
ork Install - 2nd Floor		15	Jan-28-19	Feb-15-19	□ Lab Casework & Millwork Install - 2r											
Lab Plumbing Fixtures		3	Feb-18-19	Feb-20-19	ا Lab Plumbing Fixtures											
Install Doors & Hardware - 2nd Floor		10	Feb-11-19	Feb-22-19	☐ Install Doors & Hardware - 2nd Flo											
Floor	5 5	5	Feb-25-19	Mar-1-19	■ Interior Glazing - 2nd Floor											
loor	15 1	15	Feb-18-19	Mar-8-19	■ MEP Trim Out - 2nd Floor											
nd Floor	5 5	5	Mar-11-19	Mar-15-19	□ Final Coat of Paint - 2nd Floor											
t - 2nd Floor	20 2	20	Mar-4-19	Mar-29-19	Test; Balance & Adjust - 2nd Fl											
n-up - 2nd Floor	10 1	10	Mar-18-19	Mar-29-19	☐ Final Finishes & Touch-up - 2nd											
rrections - 2nd Floor	15 1	15	Apr-1-19	Apr-19-19	■ W-T Punchlist and Correction											
ch list - 2nd Floor	20 2	20	Apr-22-19	May-24-19	Clean; Inspect; & Punch											
			-													
or Shutdowns - 1st Floor	5 (	0	Jan-16-18 A	Jan-29-18 A	Investigate Systems for Shutdowns - 1st Floor											
Floor	10	0	Feb-5-18 A	Feb-15-18 A	■ Demo Soft-Strip - 1st Floor											
1st Floor	25 1	15	Feb-16-18 A	Apr-2-18	—□ Demo & Abatement - 1st Floor											
Punch List - 1st Floor		5	Apr-3-18	Apr-9-18	■ Demo Punch List - 1st Floor											
ur Concrete Slab Infills - 1st Floor	7	7	Apr-10-18	Apr-18-18	□ Form; Reinforce & Pour Concrete Slab Infills - 1st Floor											
Support Steel at Underside of 2nd Floor for New Openings 5 Self-Leveling Floors - 1st Floor 7	support Steel at Underside of 2nd Floor for New Openings 5	at Underside of 2nd Floor for New Openings 5 5	Apr-17-18	Apr-23-18	Support Steel at Underside of 2nd Floor for New Openings											
	7	7	May-9-18	May-17-18	□ Self-Leveling Floors - 1st Floor											
Chop Slabs at New Openings - 1st Floor		15	May-15-18	Jun-5-18	□ Chop Slabs at New Openings - 1st Floor											
xterior Wall Framing & Firesafing - 1st Floor	erior Wall Framing & Firesafing - 1st Floor	Exterior Wall Framing & Firesafing - 1st Floor 10	Exterior Wall Framing & Firesafing - 1st Floor 10	Exterior Wall Framing & Firesafing - 1st Floor 10	Exterior Wall Framing & Firesafing - 1st Floor 10	Exterior Wall Framing & Firesafing - 1st Floor 10	xterior Wall Framing & Firesafing - 1st Floor 10	· ·		•		10 1	10	Jun-1-18	Jun-14-18	Exterior Wall Framing & Firesafing - 1st Floor
h Wing East Elevator for New Electrical Rooms	- 1st Floor 5	5	Jun-26-18	Jul-3-18	Structural Infill at South Wing East Elevator for New Electr											
- 1st Floor	20 2	20	Jun-6-18	Jul-5-18	■ MEP Riser Installation - 1st Floor											
nspections - 1st Floor	5	5	Jul-6-18	Jul-12-18	MEP Riser Testing & Inspections - 1st Floor											
Ductwork Overhead Rough-In - 1st Floor		20	Jun-15-18	Jul-16-18	Ductwork Overhead Rough-In - 1st Floor											
e Time - 1st Floor	8 8	8	Jul-5-18	Jul-16-18	□ Elevator Infill Slab Cure Time - 1st Floor											
· 1st Floor	5	5	Jul-13-18	Jul-19-18	MEP Riser Insulation - 1st Floor											
osure - 1st Floor	10 1	10	Jul-20-18	Aug-2-18	■ MEP Riser Shaft Enclosure - 1st Floor											
d Rough-in - 1st Floor	20 2	20	Jul-17-18	Aug-14-18	Mech Piping Overhead Rough-in - 1st Floor											
ough-in - 1st Floor	20 2	20	Jul-17-18	Aug-14-18	Electrical Overhead Rough-in - 1st Floor											
or	10 1	10	Aug-15-18	Aug-30-18	□ Wall Framing - 1st Floor											
1st Floor	5 5	5	Aug-22-18	Aug-30-18	□ Install Door Frames - 1st Floor											
- 1st Floor	20 2	20	Aug-31-18	Sep-28-18	── MEP In-Wall Rough-In - 1st Floor											
d Punchlists - 1st Floor	15 1	15	Oct-1-18	Oct-19-18	☐ In-Wall Inspections and Punchlists - 1st Floor											
st Floor	10 1	10	Oct-12-18	Oct-25-18	□ Window Installation - 1st Floor											
Floor	15 1	15	Oct-26-18	Nov-15-18	□ Drywall & Taping - 1st Floor											
aint - 1st Floor	5	5	Nov-16-18	Nov-23-18	□ Prime & 1st Coat of Paint - 1st Floor											
st Floor	10 1	10	Nov-26-18	Dec-7-18	□ Ceiling Grid & Cuts - 1st Floor											
D; Etc - 1st Floor	10 1	10	Dec-17-18	Dec-31-18	□ Light Fixtures; F.A; T/D; Etc - 1st Floor											
- 1st Floor	10 1	10	Dec-17-18	Dec-31-18	□ Fire Protection Drops - 1st Floor											
Ist Floor Floor aint - 1 st Floo D; Etc	or  I st Floor  or  - 1st Floor  loor  Gant-12	10	10 10 10 15 15 15 15 15 15 15 15 15 15 15 15 16 15 16 17 10 10 10 10 10 10 10 10 10 10 10 10 10	10 10 Oct-12-18 15 15 Oct-26-18 1st Floor 5 5 Nov-16-18 or 10 10 Nov-26-18 - 1st Floor 10 10 Dec-17-18 loor 10 10 Dec-17-18	for         10         10         Oct-12-18         Oct-25-18           15         15         15         Oct-26-18         Nov-15-18           1st Floor         5         5         Nov-16-18         Nov-23-18           1or         10         10         Nov-26-18         Dec-7-18           - 1st Floor         10         10         Dec-17-18         Dec-31-18           loor         10         10         Dec-17-18         Dec-31-18											

♦ Milestone
 Completed Work
 ♦ Actual Milestone





S-1-200   Bathroom Wall & Floor Tile	2019 2020
S-1-142	
S-1-200   Bathroom Wall & Floor Tile   10   10   Jan-2-19   Jan-15-19   Jan-15-19   S-1-202   Bathroom Plumbing Fixtures   3   3   Jan-16-19   Jan-18-19   Jan-22-19   S-1-144   Above Celling Inspections and Punchist - 1st Floor   15   15   Jan-21-19   Jan-22-19   Jan	Flooring - 1st Floor
S-1-202   Bathroom Plumbing Fixtures   3   3   Jan-16-19   Jan-16-19   Jan-2-19   Jan	
S-1-144   Above Ceiling Inspections and Punchlist - 1st Floor   15   15   Jan-2-19   Jan-22-19   Jan-22-19	umbing Fixtures
S-1-204   Tollet Partitions & Accessories   5   5   Jan-21-19   Jan-25-19	ig Inspections and Punchli
S-1-146   Ceiling Pads - 1st Floor   5   5   Jan-23-19   Jan-29-19   S-1-148   Lab Casews, Millwork - 1st Floor   15   15   Jan-16-19   Feb-5-19   Feb-5-19   Install Doors & Hardware - 1st Floor   10   10   Jan-30-19   Feb-12-19	ons & Accessories
S-1-148	s - 1st Floor
S-1-226 Lab Plumbing Fixtures  S-1-150 Install Doors & Hardware - 1st Floor  S-1-151 Interior Glazing - 1st Floor  S-1-152 Interior Glazing - 1st Floor  S-1-154 MEP Trim Out - 1st Floor  S-1-156 Final Coat of Paint - 1st Floor  S-1-156 Final Footh Final Finishes & Touch-up - 1st Floor  S-1-156 Final Coat of Paint - 1st Floor  S-1-156 Final Footh Final Finishes & Touch-up - 1st Floor  S-1-150 Final Finishes & Touch-up - 1st Floor  S-1-150 W-T Punchilist - 1st Floor  S-1-162 W-T Punchilist - 1st Floor  S-1-162 W-T Punchilist - 1st Floor  S-1-162 W-T Punchilist - Plaza Building  S-1-164 Clean; Inspect; & Punch list - 1st Floor  P-1-112 Plaza Building Empty - Start Construction - Plaza Building  P-1-112 Plaza Building Empty - Start Construction - Plaza Building  P-1-116 Demo & Abatement - Plaza Building  P-1-118 Demo Punchilist - Plaza Building  P-1-130 Ductwork & Equipment Overhead Rough-in - Plaza Building  P-1-120 Ductwork & Equipment Overhead Rough-in - Plaza Building  P-1-124 Wall Farming - Plaza Building  P-1-125 Mich Well Farming - Plaza Building  P-1-126 Window Glass Modifications - Plaza Building  P-1-127 Window Glass Modifications - Plaza Building  P-1-128 MEP Riser Feeds - Plaza Building  P-1-129 Mindow Glass Modifications - Plaza Building  Self-Leveling Floors and Punchilist - Plaza Building  P-1-120 Nundow Glass Modifications - Plaza Building  P-1-121 In-Wall Inspections and Punchilists - Plaza Building  P-1-122 In-Wall Inspections and Punchilists - Plaza Building  In-Wall Inspections and Punchilist - Plaza Building  In-Wall Inspections and Punchilists - Plaza Building  In-Wall Inspections and Punchilists - Plaza Building  In-Wall Inspections and Punchilists - Plaza Building  In-	vork & Millwork - 1st Floor
S-1-150	ing Fixtures
S-1-152   Interior Glazing - 1st Floor   5   5   Feb-13-19   Feb-19-19	ors & Hardware - 1st Floor
S-1-154   MEP Trim Out - 1st Floor   15   15   Feb-6-19   Feb-26-19   Feb-26-19   S-1-156   Final Coat of Paint - 1st Floor   5   5   Feb-27-19   Mar-5-19   Mar-5-19   S-1-158   Test; Balance & Adjust - 1st Floor   20   20   Feb-20-19   Mar-19-19   Mar-19-19   S-1-162   W-T Punchlist - 1st Floor   10   10   Mar-20-19   Apr-2-19   Apr-2-19   S-1-164   Clean; Inspect; & Punch list - 1st Floor   20   20   Apr-3-19   May-7-19   May-7-18   May-18-18   M	lazing - 1st Floor
S-1-156 Final Coat of Paint - 1st Floor 5 5 5 Feb-27-19 Mar-5-19   S-1-158 Test; Balance & Adjust - 1st Floor 20 20 Feb-20-19 Mar-19-19   S-1-160 Final Finishes & Touch-up - 1st Floor 10 10 Mar-6-19 Mar-19-19   S-1-162 W-T Punchlist - 1st Floor 20 20 Apr-3-19 May-7-19    Plaza Building 1st Floor 20 20 Apr-3-19 May-7-19    Plaza Building Empty - Start Construction - Plaza Building 5 5 5 May-14-18 May-18-18   P-1-114 Install Construction Barriers; Doors; & Security - Plaza Building 20 20 May-21-18 Jun-18-18   P-1-118 Demo Punchlist - Plaza Building 5 5 5 Jun-19-18 Jun-25-18   P-1-130 Self-Leveling Floors - Plaza Building 7 7 Jun-26-18 Jul-6-18   P-1-120 Ductwork & Equipment Overhead Rough-in - Plaza Building 20 20 Jul-9-18 Aug-3-18   P-1-122 Electrical overhead Rough-in - Plaza Building 20 20 Jul-23-18 Aug-20-18   P-1-124 Wall Framing - Plaza Building 20 20 Aug-30-18 Aug-20-18   P-1-126 Window Glass Modifications - Plaza Building 15 15 Sep-27-18 Oct-17-18   P-1-132 In-Wall Inspections and Punchlists - Plaza Building 15 15 Oct-12-18 Nov-1-18	m Out - 1st Floor
S-1-158   Test; Balance & Adjust - 1st Floor   20   20   Feb-20-19   Mar-19-19   S-1-160   Final Finishes & Touch-up - 1st Floor   10   10   Mar-6-19   Mar-19-19   S-1-162   W-T Punchlist - 1st Floor   10   10   Mar-20-19   Apr-2-19   Apr-2-18   Apr-2	oat of Paint - 1st Floor
S-1-160   Final Finishes & Touch-up - 1st Floor   10   10   Mar-6-19   Mar-19-19	Balance & Adjust - 1st Floo
S-1-162   W-T Punchlist - 1st Floor   10   10   Mar-20-19   Apr-2-19   Apr-2-19   S-1-164   Clean; Inspect; & Punch list - 1st Floor   20   20   Apr-3-19   May-7-19	inishes & Touch-up - 1st F
S-1-164   Clean; Inspect; & Punch list - 1st Floor   20   20   Apr-3-19   May-7-19	Punchlist - 1st Floor
Plaza Building 1st Floor         P-1-112         Plaza Building Empty - Start Construction - Plaza Building         0         0         May-14-18         May-18-18           P-1-114         Install Construction Barriers; Doors; & Security - Plaza Building         5         5         May-14-18         May-18-18           P-1-116         Demo & Abatement - Plaza Building         20         20         May-21-18         Jun-18-18           P-1-118         Demo Punchlist - Plaza Building         5         5         Jun-19-18         Jun-25-18           P-1-306         Self-Leveling Floors - Plaza Building         7         7         Jun-26-18         Jul-6-18           P-1-120         Ductwork & Equipment Overhead Rough-In - Plaza Building         20         20         Jul-23-18         Aug-30-18           P-1-124         Wall Framing - Plaza Building         20         20         Jul-23-18         Aug-20-18           P-1-128         MEP Riser Feeds - Plaza Building         15         15         Aug-30-18         Sep-27-18           P-1-130         MEP In-Wall Rough-In - Plaza Building         30         30         Aug-30-18         Oct-11-18           P-1-132         In-Wall Inspections and Punchlists - Plaza Building         15         15         Sep-27-18         Oct-17-18           I	lean; Inspect; & Punch lis
P-1-114 Install Construction Barriers; Doors; & Security - Plaza Building P-1-116 Demo & Abatement - Plaza Building P-1-118 Demo Punchlist - Plaza Building P-1-306 Self-Leveling Floors - Plaza Building P-1-120 Ductwork & Equipment Overhead Rough-In - Plaza Building P-1-122 Electrical overhead Rough-in - Plaza Building P-1-124 Wall Framing - Plaza Building P-1-128 MEP Riser Feeds - Plaza Building P-1-130 MEP In-Wall Rough-In - Plaza Building P-1-130 Window/ Glass Modifications - Plaza Building P-1-126 Window/ Glass Modifications - Plaza Building P-1-132 In-Wall Inspections and Punchlists - Plaza Building Demo & Abatement - Plaza Building Demo & Abatement - Plaza Building Demo & Abatement - Plaza Building P-1-128 Jun-19-18 Jun-25-18 Jun-19-18 Jun-25-18 Aug-3-18 Aug-3-18 Aug-3-18 Aug-20-18 P-1-128 MEP Riser Feeds - Plaza Building Self-Leveling Floors - Plaza Building Demo & Abatement - Plaza Building Self-Leveling Floors - Plaza Building Self-Leveling Floors - Plaza Building Demo Punchlist - Plaza Building Self-Leveling Floors - Plaza Building S	
P-1-116 Demo & Abatement - Plaza Building P-1-118 Demo Punchlist - Plaza Building P-1-306 Self-Leveling Floors - Plaza Building P-1-20 Ductwork & Equipment Overhead Rough-In - Plaza Building P-1-122 Electrical overhead Rough-in - Plaza Building P-1-124 Wall Framing - Plaza Building P-1-128 MEP Riser Feeds - Plaza Building P-1-130 MEP In-Wall Rough-In - Plaza Building P-1-130 Window/ Glass Modifications - Plaza Building P-1-132 In-Wall Inspections and Punchlists - Plaza Building Demo & Abatement - Plaza Building Demo & Abatement - Plaza Building Demo & Abatement - Plaza Building P-1-180 Jun-25-18 Demo & Abatement - Plaza Building Self-Leveling Floors - Plaza Building P-1-180 Aug-3-18 Aug-3-18 Aug-20-18 Demo & Abatement - Plaza Building Self-Leveling Floors - Plaza Building Demo Punchlist - Plaza Building Self-Leveling Floors - Plaza Building Self-Leveling Floors - Plaza Building Aug-3-18 Aug-3-18 Aug-29-18 Wall Framing - Plaza Building MEP In-Wall Rough-In - Plaza Building MEP In-Wall Rough-In - Plaza Building NEP In-Wall Rough-In - Plaza Building NEP In-Wall Rough-In - Plaza Building Ner In-Wall Inspections and Punchlists - Plaza Building In-Wall Inspections a	ion - Plaza Building
P-1-118 Demo Punchlist - Plaza Building P-1-306 Self-Leveling Floors - Plaza Building P-1-306 Self-Leveling Floors - Plaza Building P-1-120 Ductwork & Equipment Overhead Rough-In - Plaza Building P-1-122 Electrical overhead Rough-in - Plaza Building P-1-124 Wall Framing - Plaza Building P-1-128 MEP Riser Feeds - Plaza Building P-1-130 MEP In-Wall Rough-In - Plaza Building P-1-130 Window/ Glass Modifications - Plaza Building P-1-132 In-Wall Inspections and Punchlists - Plaza Building Demo Punchlist - Plaza Building P-1-18 Jun-25-18 Jun-25-18 Demo Punchlist - Plaza Building Self-Leveling Floors - Plaza Building Aug-3-18 Demo Punchlist - Plaza Building Self-Leveling Floors - Plaza Building Aug-3-18 Demo Punchlist - Plaza Building Self-Leveling Floors - Plaza Building Aug-3-18 Demo Punchlist - Plaza Building Self-Leveling Floors - Plaza Building Aug-3-18 Demo Punchlist - Plaza Building Self-Leveling Floors - Plaza Building Aug-3-18 Aug-20-18 Aug-20-18 Sep-27-18 Oct-11-18 MEP In-Wall Inspections and Punchlists - Plaza Building In-Wall Inspections a	Security - Plaza Building
P-1-306 Self-Leveling Floors - Plaza Building P-1-120 Ductwork & Equipment Overhead Rough-In - Plaza Building P-1-122 Electrical overhead Rough-in - Plaza Building P-1-124 Wall Framing - Plaza Building P-1-128 MEP Riser Feeds - Plaza Building P-1-130 MEP In-Wall Rough-In - Plaza Building P-1-140 Window/ Glass Modifications - Plaza Building P-1-150 Window/ Glass Modifications and Punchlists - Plaza Building P-1-132 In-Wall Inspections and Punchlists - Plaza Building P-1-30 Self-Leveling Floors - Plaza Building P-1-180 Aug-3-18 Aug-3-18 P-1-190 Aug-30-18 Sep-27-18 P-1-130 MEP In-Wall Rough-In - Plaza Building P-1-130 In-Wall Inspections and Punchlists - Plaza Building In-Wall Inspections	g
P-1-120 Ductwork & Equipment Overhead Rough-In - Plaza Building  P-1-122 Electrical overhead Rough-in - Plaza Building  P-1-124 Wall Framing - Plaza Building  P-1-128 MEP Riser Feeds - Plaza Building  P-1-130 MEP In-Wall Rough-In - Plaza Building  P-1-130 Window/ Glass Modifications - Plaza Building  P-1-132 In-Wall Inspections and Punchlists - Plaza Building  Ductwork & Equipment Overhead Rough-in Aug-3-18  Aug-3-18  Aug-20-18  Aug-20-18  Sep-27-18  Ductwork & Equipment Overhead Rough-in Plaza Building  Ductwork & Equipment Overhead Rough-in Sep-2-18  MEP Riser Feeds - Plaza Building  MEP In-Wall Rough-In Oct-11-18  Window/ Glass Modifications - Plaza Building  Ductwork & Equipment Overhead Rough-in Sep-2-18  Duc	
P-1-122 Electrical overhead Rough-in - Plaza Building  P-1-124 Wall Framing - Plaza Building  P-1-128 MEP Riser Feeds - Plaza Building  P-1-130 MEP In-Wall Rough-In - Plaza Building  P-1-126 Window/ Glass Modifications - Plaza Building  P-1-132 In-Wall Inspections and Punchlists - Plaza Building  D-1-132 Electrical overhead Rough-in Aug-20-18  Aug-20-18 Aug-30-18  Aug-20-18  Oct-11-18  MEP Riser Feeds - Plaza  MEP In-Wall Rough-In  Window/ Glass Modifications - Plaza Building  In-Wall Inspections and Punchlists - Plaza Building	1 1
P-1-124 Wall Framing - Plaza Building 15 15 Aug-6-18 Aug-29-18 P-1-128 MEP Riser Feeds - Plaza Building 20 20 Aug-30-18 Sep-27-18 P-1-130 MEP In-Wall Rough-In - Plaza Building 30 30 Aug-30-18 Oct-11-18 P-1-126 Window/ Glass Modifications - Plaza Building 15 15 Sep-27-18 Oct-17-18 P-1-132 In-Wall Inspections and Punchlists - Plaza Building 15 15 Oct-12-18 Nov-1-18	! ! ! !
P-1-128 MEP Riser Feeds - Plaza Building  20 20 Aug-30-18 Sep-27-18  P-1-130 MEP In-Wall Rough-In - Plaza Building  30 30 Aug-30-18 Oct-11-18  P-1-126 Window/ Glass Modifications - Plaza Building  15 15 Sep-27-18 Oct-17-18  P-1-132 In-Wall Inspections and Punchlists - Plaza Building  15 15 Oct-12-18 Nov-1-18	- Plaza Building
P-1-130 MEP In-Wall Rough-In - Plaza Building 30 30 Aug-30-18 Oct-11-18 P-1-126 Window/ Glass Modifications - Plaza Building 15 15 Sep-27-18 Oct-17-18 P-1-132 In-Wall Inspections and Punchlists - Plaza Building 15 15 Oct-12-18 Nov-1-18	ıg
P-1-126 Window/ Glass Modifications - Plaza Building 15 15 Sep-27-18 Oct-17-18 P-1-132 In-Wall Inspections and Punchlists - Plaza Building 15 15 Oct-12-18 Nov-1-18  In-Wall Inspections a	
P-1-132 In-Wall Inspections and Punchlists - Plaza Building 15 15 Oct-12-18 Nov-1-18	
	!!!!
	nd Punchlists - Plaza Build
P-1-134 Drywall & Taping - Plaza Building 15 15 Nov-2-18 Nov-23-18 Drywall & Taping -	
	of Paint - Plaza Building
	Cuts - Plaza Building
-9.1.9	iff. Etc - Plaza Building
1 1 10 Double 10	sework - Plaza Building
P-1-104 Bathroom Wall & Floor Tile 10 10 Jan-7-19 Jan-18-19 ■ Bathroom Wall	
	umbing Fixtures
P-1-142 Flooring - Plaza Building 10 10 Jan-10-19 Jan-23-19 □ Flooring - Plaza Building	- i - i - i - i - i - i - i - i - i - i
P-1-108 Toilet Partitions & Accessories 5 5 Jan-22-19 Jan-28-19	ons & Accessories



Gant-12





Activity ID	Activity Name	Original		Start	Finish	2018 2019 2020
D 1 114	Colling Dade Diego Duilding	Duration		lan 24 10	lan 20 10	N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan   Ceiling Pads - Plaza Building
P-1-144	Ceiling Pads - Plaza Building	5	5	Jan-24-19	Jan-30-19	□ Doors & Specialties - Plaza Building
P-1-146	Doors & Specialties - Plaza Building	10	10	Jan-24-19	Feb-6-19	Balancing - Plaza Building
P-1-148	Balancing - Plaza Building	5	5	Feb-7-19	Feb-13-19	■ Final Finishes & Touch-up - Plaza B
P-1-150	Final Finishes & Touch-up - Plaza Building	10	10	Feb-7-19	Feb-20-19	
P-1-152	Commissioning & Testing - Plaza Building	15	15	Feb-14-19	Mar-6-19	Commissioning & Testing - Plaza I
P-1-154	Final Inspection & Correction - Plaza Building	10	10	Feb-21-19	Mar-6-19	□ Final Inspection & Correction - Pla
P-1-156	W-T Punchlist - Plaza Building	15	15	Mar-7-19	Mar-27-19	■ W-T Punchlist - Plaza Building
P-1-158	D-T Punchlist & Correction - Plaza Building	15	15	Mar-28-19	Apr-17-19	D-T Punchlist & Correction - F
P-1-160	Final Clean - Plaza Building	5	5	Apr-18-19	Apr-24-19	□ Final Clean - Plaza Building
P-1-162	Ready for UConn Funiture - Plaza Building	0	0	Apr-25-19		♦ Ready for UConn Funiture -
Mechanical Roo		10	10	Aug 1 10	Aug 45 40	□ Roof Fans
P-1-302	Roof Fans	10	10	Aug-1-18	Aug-15-18	Set & Connect Mechanical Equipment at Plaza Buildi
P-1-300	Set & Connect Mechanical Equipment at Plaza Building MER	20	20	Aug-1-18	Aug-31-18	Set & Confident Mechanical Equipment at Flaza Buildi
Light Court Structure						
LC-102	Temp Fence at Plaza; and Temp Baricades - Light Court	10	10	Feb-26-18*	Mar-9-18	□ Temp Fence at Plaza; and Temp Baricades - Light Court
LC-104	Demolition - Light Court	10	10	Mar-12-18	Mar-23-18	□ Demolition - Light Court
LC-106	Drilled Piles - Light Court	10	10	Mar-26-18	Apr-6-18	□ Drilled Piles - Light Court
LC-108	Structural Modifications at Plaza level - Light Court	10	10	Mar-26-18	Apr-6-18	□ Structural Modifications at Plaza level - Light Court
LC-110	Excavation for foundations & Site Utilites - Light Court	10	10	Apr-9-18	Apr-20-18	■ Excavation for foundations & Site Utilites - Light Court
LC-112	Foundations and Pile Caps - Light Court	15	15	Apr-23-18	May-18-18	☐ Foundations and Pile Caps - Light Court
LC-114	Backfill Light Court Area and prep for Slab - Light Court	10	10	May-21-18	Jun-4-18	□ Backfill Light Court Area and prep for Slab - Light Court
LC-116	Structural Steel & Deck - Light Court	15	15	Jun-5-18	Jun-25-18	☐ Structural Steel & Deck - Light Court
LC-118	Form and Place Concrete Slab - Light Court	5	5	Jun-26-18	Jul-3-18	□ Form and Place Concrete Slab - Light Court
LC-100	Intumescent Paint - Light Court	5	5	Jun-26-18	Jul-3-18	□ Intumescent Paint - Light Court
LC-120	Slab Cure - Light Court	5	5	Jul-5-18	Jul-11-18	□ Slab Cure - Light Court
Enclosure						
LC-124	Framing/cladding systems - Light Court	20	20	Jun-26-18	Jul-25-18	Framing/cladding systems - Light Court
LC-126	Install Point Supported Glass (Clerestory) - Light Court	20	20	Jul-26-18	Aug-27-18	Install Point Supported Glass (Clerestory) - Light Cou
LC-122	Entrance Doors - Light Court	2	2	Aug-22-18	Aug-27-18	□ Entrance Doors - Light Court
LC-128	Install Roof - Light Court	25	25	Sep-26-18	Oct-30-18	Install Roof - Light Court
LC-158	Granite Base - Light Court	5	5	Oct-31-18	Nov-6-18	□ Granite Base - Light Court
Finishes						
LC-132	Install MEP's - Light Court	20	20	Aug-28-18	Sep-25-18	Install MEP's - Light Court
LC-134	Frame Walls & Column enclosures - Light Court	10	10	Oct-31-18	Nov-13-18	☐ Frame Walls & Column enclosures - Light Cou
LC-138	Feature Stair - Light Court	20	20	Oct-31-18	Nov-28-18	Feature Stair - Light Court
LC-140	In-wall MEPs - Light Court	15	15	Nov-14-18	Dec-5-18	☐ In-wall MEPs - Light Court
LC-142	Stair Treads - Light Court	5	5	Nov-29-18	Dec-5-18	■ Stair Treads - Light Court
LC-144	Drywall & Taping - Light Court	15	15	Dec-6-18	Jan-4-19	Drywall & Taping - Light Court
LC-130	Acoustic Plaster Ceiling at Underside of Light Court Roof	10	10	Jan-7-19	Jan-18-19	□ Acoustic Plaster Ceiling at Underside d



Gant-12





Activity ID	Activity Name	Original Duration		Start	Finish	2020     2018     2018     2020     2
LC-146	Flooring - Light Court	15	15	Jan-7-19	Jan-25-19	Flooring - Light Court
LC-150	Millwork & Final Finishes - Light Court	20	20	Jan-28-19	Feb-22-19	☐ Millwork & Final Finishes - Light Co
LC-148	Feature Stair Railings - Light Court	15	15	Feb-11-19	Mar-1-19	□ Feature Stair Railings - Light Courl
LC-136	Walls; Ceilings; Finishes Work at Occupied Locs - Light Court	62	62	Dec-17-18*	Mar-14-19	Walls; Cellings; Finishes Work at
LC-152	W-T Punchlist - Light Court	10	10	Mar-4-19	Mar-15-19	□ W-T Punchlist - Light Court
LC-154	Design Team Punchlist - Light Court	10	10	Mar-18-19	Mar-29-19	□ Design Team Punchlist - Light (
LC-156	Balancing & Commisioning - Light Court	20	20	Apr-1-19	Apr-26-19	■ Balancing & Commisioning -
	(All Areas except Light Court)	l l		•		
G-110	Investigate Systems for Shutdowns - Ground	15	5	Feb-1-18 A	Feb-26-18	Investigate Systems for Shutdowns - Ground
G-114	Demo Soft-Strip - Ground	10	5	Feb-14-18 A	Feb-26-18	Demo Soft-Strip - Ground
G-116	Demo & Abatement - Ground	25	25	Feb-27-18	Apr-2-18	Demo & Abatement - Ground
G-112	Install Temp Doors and Barriers at Data Center - Ground	10	10	Mar-23-18	Apr-5-18	□ Install Temp Doors and Barriers at Data Center - Ground
G-120	Demo Punch List - Ground	5	5	Apr-3-18	Apr-9-18	■ Demo Punch List - Ground
G-530	Set; Connect & Startup Temp AHU at Data Center - Ground	3	3	Apr-16-18	Apr-18-18	■ Set; Connect & Startup Temp AHU at Data Center - Ground
G-184	Support Steel at Underside of Level 1	10	10	Apr-24-18	May-14-18	Support Steel at Underside of Level 1
G-186	Ground Floor Mezz & Utility Bridge Structural Steel & Decking	10	10	May-15-18	May-29-18	□ Ground Floor Mezz & Utility Bridge Structural Steel & Decking
G-188	Reinforce & Pour Utility Bridge Slab on Deck	3	3	May-30-18	Jun-1-18	■ Reinforce & Pour Utility Bridge Slab on Deck
G-122	Underslab MEP's (incl. Slab Cutting) - Ground	20	20	May-7-18	Jun-4-18	Underslab MEP's (incl. Slab Cutting) - Ground
G-124	Concrete Slabs at New Underslab MEPs - Ground	15	15	Jun-5-18	Jun-25-18	Concrete Slabs at New Underslab MEPs - Ground
G-228	Self-Leveling Floors - Ground	7	7	Jun-26-18	Jul-6-18	□ Self-Leveling Floors - Ground
G-126	Exterior Wall Framing & Firesafing - Ground	10	10	Jun-26-18	Jul-11-18	Exterior Wall Framing & Firesafing - Ground
G-130	Ductwork Overhead Rough-In - Ground	20	20	Jul-12-18	Aug-8-18	Ductwork Overhead Rough-In - Ground
G-132	Mech Piping Overhead Rough-in - Ground	20	20	Jul-19-18	Aug-16-18	☐ Mech Piping Overhead Rough-in - Ground
G-128	Build New Electrical Room - Ground	10	10	Aug-7-18	Aug-21-18	□ Build New Electrical Room - Ground
G-134	Electrical Overhead Rough-in - Ground	20	20	Jul-26-18	Aug-27-18	Electrical Overhead Rough-in - Ground
G-516	OH Plumbing Rough-in - Ground	20	20	Jul-26-18	Aug-27-18	OH Plumbing Rough-in - Ground
G-518	Fire Protection Mains & Branches - Ground	20	20	Jul-26-18	Aug-27-18	Fire Protection Mains & Branches - Ground
G-520	OH Controls Rough-in - Ground	20	20	Jul-26-18	Aug-27-18	OH Controls Rough-in - Ground
G-528	CMU Walls - Ground	40	40	Jul-9-18	Sep-6-18	CMU Walls - Ground
G-136	MEP Riser Installation - Ground	20	20	Aug-9-18	Sep-11-18	MEP Riser Installation - Ground
G-138	Wall Framing - Ground	10	10	Aug-28-18	Sep-11-18	□ Wall Framing - Ground
G-140	Install Door Frames - Ground	5	5	Sep-5-18	Sep-11-18	□ Install Door Frames - Ground
G-100	Hard Ceiling Framing - Ground	10	10	Sep-12-18	Sep-25-18	□ Hard Ceiling Framing - Ground
G-144	MEP In-Wall Rough-In - Ground	20	20	Sep-5-18	Oct-2-18	☐ MEP In-Wall Rough-In - Ground
G-142	Window Installation - Ground	10	10	Sep-27-18	Oct-10-18	□ Window Installation - Ground
G-146	In-Wall Inspections and Punchlists - Ground	15	15	Oct-3-18	Oct-23-18	In-Wall Inspections and Punchlists - Ground
G-148	Drywall & Taping - Ground	15	15	Oct-24-18	Nov-13-18	□ Drywall & Taping - Ground
G-150	Prime & 1st Coat of Paint - Ground	5	5	Nov-14-18	Nov-20-18	□ Prime & 1st Coat of Paint - Ground
G-152	Ceiling Grid & Cuts - Ground	10	10	Nov-21-18	Dec-5-18	□ Ceiling Grid & Cuts - Ground
		,			,	



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	Activity Name	Original Duration	Remaining Duration	Start	Finish	2018 2019 2020
G-154	Light Fixtures; FA; T/D; Etc - Ground	10	10	Dec-6-18	Dec-27-18	N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan E Light Fixtures; FA; T/D; Etc - Ground
G-15 <del>4</del> G-156	Diffusers - Ground	10	10	Dec-6-18	Dec-27-18	□ Diffusers - Ground
G-158	Fire Protection Drops - Ground	10	10	Dec-6-18	Dec-27-18	☐ Fire Protection Drops - Ground
G-150	Lab Suspended Steel Channel Assemblies	25	25	Nov-21-18	Jan-4-19	Lab Suspended Steel Channel Assembli
G-102	Drywall & Taping at Hard Ceilings - Ground	10	10	Dec-28-18	Jan-11-19	□ Drywall & Taping at Hard Ceilings - Gro
G-102	Bathroom Wall & Floor Tile	10	10	Dec-28-18	Jan-11-19	□ Bathroom Wall & Floor Tile
G-104	Bathroom Plumbing Fixtures	10	10	Jan-14-19	Jan-14-19	□ Bathroom Plumbing Fixtures
G-162	Above Ceiling Inspections and Punchlists - Ground	15	15	Dec-28-18	Jan-18-19	□ Above Ceiling Inspections and Punchlis
G-160	Flooring - Ground	10	10	Jan-7-19	Jan-18-19	□ Flooring - Ground
G-100	Overhead Service Carriers	10	10	Jan-7-19	Jan-18-19	Overhead Service Carriers
G-108	Toilet Partitions & Accessories	5	5	Jan-15-19	Jan-21-19	□ Toilet Partitions & Accessories
G-166	Ceiling Pads - Ground	5	5	Jan-21-19	Jan-25-19	□ Ceiling Pads - Ground
G-164	Interior Glazing - Ground	5	5	Jan-21-19	Jan-25-19	■ Interior Glazing - Ground
G-168	Lab Casework; Fume Hoods and Millwork Install - Ground	15	15	Jan-23-19	Feb-12-19	□ Lab Casework; Fume Hoods and Mi
G-108 G-526	Lab Plumbing Fixtures	10	13	Feb-13-19	Feb-13-19	Lab Plumbing Fixtures
G-524	MEP Drops at Overhead Service Carriers	20	20	Jan-21-19	Feb-15-19	■ MEP Drops at Overhead Service Ca
G-170	Install Doors & Hardware - Ground	10	10	Feb-6-19	Feb-19-19	□ Install Doors & Hardware - Ground
S-168	Laser Curtains - Ground	10	10	Feb-20-19	Mar-5-19	■ Laser Curtains - Ground
G-172	MEP Trim Out - Ground	15	15	Feb-18-19	Mar-8-19	■ MEP Trim Out - Ground
G-172	Final Coat of Paint - Ground	5	5	Mar-11-19	Mar-15-19	■ Final Coat of Paint - Ground
G-174	Test; Balance & Adjust - Ground	20	20	Mar-4-19	Mar-29-19	Test; Balance & Adjust - Ground
G-178	Final Finishes & Touch-up - Ground	10	10	Mar-18-19	Mar-29-19	☐ Final Finishes & Touch-up - Gro
G-178	W-T Punchlist & Repairs - Ground	15	15	Apr-1-19	Apr-19-19	■ W-T Punchlist & Repairs - Gr
G-182	Clean; Inspect; & Punch list - Ground	20	20	Apr-17-19	May-21-19	Clean; Inspect; & Punch li
	ctrical Room Infrastructure	20	20	Αρι-17-19	Way-21-19	
G-500	New Piping to Existing ACC Units at Plaza	15	15	May-14-18	Jun-4-18	■ New Piping to Existing ACC Units at Plaza
G-502	Install and Final Connection of New Elect. Gear - Infrastructure	20	20	Aug-7-18	Sep-7-18	Install and Final Connection of New Elect. Gear - Inf
G-504	Electrical Shutdowns; Rel & transf to new Gear - Infrastructure	15	15	Sep-10-18	Sep-28-18	□ Electrical Shutdowns; Rel & transf to new Gear - I
G-506	Decomission & Demo Existing Elect. Rooms - Infrastructure	10	10	Oct-1-18	Oct-12-18	□ Decomission & Demo Existing Elect. Rooms - Inf
G-508	Build New Mechanical Rooms - Infrastructure	10	10	Oct-15-18	Oct-26-18	□ Build New Mechanical Rooms - Infrastructure
G-510	Install Ground Equip. & Piping - Infrastructure	25	25	Oct-29-18	Dec-3-18	Install Ground Equip. & Piping - Infrastructu
G-512	Ground Mech. Room Complete - Infrastructure	0	0		Dec-3-18	♦ Ground Mech. Room Complete - Infrastruct
G-514	Controlled Air for Millwork/Casework Install - Infrastructure	0	0	Dec-18-18		◆ Controlled Air for Millwork/Casework Instal
West Connector	Phase Scope (Northwest of Col. C.5/16)					
4th Floor			_			
WC-4-100	Start West Side Connector Phase Work - 4th Floor (West Connector)	0	0	Jun-25-19		Start West Side Conne
WC-4-102	Demolition & Abatement - 4th Floor (West Connector)	7	7	Jun-25-19	Jul-5-19	Demolition & Abateme
WC-4-104	Wall Framing - 4th Floor (West Connector)	5	5	Jul-8-19	Jul-12-19	■ Wall Framing - 4th Fl
WC-4-106	Install Ductwork & Above Ceiling HVAC - 4th Floor (West Connector)	10	10	Jul-15-19	Jul-26-19	□ Install Ductwork & /
WC-4-108	Rough-in Electrical (in-Wall & Above Ceiling - 4th Floor (West Connector)	10	10	Jul-22-19	Aug-2-19	□ Rough-in Electrical



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Activity ID	Activity Name	Original	Remaining	Start	Finish	2018 2019 2020
1112 1112		Duration				N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan F
WC-4-110	Install Plumbing - 4th Floor (West Connector)	5	5	Jul-29-19	Aug-2-19	□ Install Plumbing - 4
WC-4-112	In-wall Inspections - 4th Floor (West Connector)	5	5	Aug-5-19	Aug-12-19	□ In-wall Inspection
WC-4-114	Drywall & Taping - 4th Floor (West Connector)	5	5	Aug-13-19	Aug-19-19	□ Drywall & Taping
WC-4-116	Prime & 1st Coat of Paint - 4th Floor (West Connector)	2	2	Aug-20-19	Aug-21-19	I Prime & 1st Coa
WC-4-118	Install Ceilings - 4th Floor (West Connector)	5	5	Aug-26-19	Aug-30-19	■ Install Ceilings -
WC-4-120	Install Lights; Difusers; F.P. Heads; Etc - 4th Floor (West Connector)	5	5	Sep-3-19	Sep-9-19	□ Install Lights; [
WC-4-122	Flooring - 4th Floor (West Connector)	5	5	Sep-10-19	Sep-16-19	■ Flooring - 4th
WC-4-124	Millwork & Casework - 4th Floor (West Connector)	5	5	Sep-17-19	Sep-23-19	■ Millwork & Ca
WC-4-126	Balance & Commission - 4th Floor (West Connector)	5	5	Sep-17-19	Sep-23-19	■ Balance & Co
WC-4-128	Doors & Final Finishes - 4th Floor (West Connector)	5	5	Sep-24-19	Sep-30-19	□ Doors & Fina
WC-4-130	W-T Punchlist - 4th Floor (West Connector)	5	5	Oct-1-19	Oct-7-19	□ W-T Punchl
WC-4-132	Final Clean - 4th Floor (West Connector)	1	1	Oct-8-19	Oct-8-19	ı Final Clean
WC-4-134	D.T. Punchlist - 4th Floor (West Connector)	5	5	Oct-8-19	Oct-14-19	□ D.T. Punch
WC-4-136	Complete 4th Floor (West Connector)	0	0		Oct-14-19	◆ Complete 4
WC-4-138	UConn Furniture - 4th Floor (West Connector)	5	5	Oct-15-19	Oct-21-19	□ UConn Fu
3rd Floor						
WC-3-100	Demolition & Abatment - 3rd Floor (West Connector)	7	7	Jun-27-19	Jul-9-19	□ Demolition & Abatme
WC-3-102	Wall Framing - 3rd Floor (West Connector)	5	5	Jul-10-19	Jul-16-19	■ Wall Framing - 3rd F
WC-3-104	Install Ductwork & Above Ceiling HVAC - 3rd Floor (West Connector)	10	10	Jul-17-19	Jul-30-19	□ Install Ductwork &
WC-3-106	Rough-in Electrical (in-Wall & Above Ceiling - 3rd Floor (West Connector)	10	10	Jul-24-19	Aug-6-19	■ Rough-in Electrica
WC-3-108	Install Plumbing - 3rd Floor (West Connector)	5	5	Jul-31-19	Aug-6-19	□ Install Plumbing -
WC-3-110	In-wall Inspections - 3rd Floor (West Connector)	5	5	Aug-7-19	Aug-14-19	□ In-wall Inspection
WC-3-112	Drywall & Taping - 3rd Floor (West Connector)	5	5	Aug-15-19	Aug-21-19	□ Drywall & Taping
WC-3-114	Prime & 1st Coat of Paint - 3rd Floor (West Connector)	2	2	Aug-26-19	Aug-27-19	I Prime & 1st Coa
WC-3-116	Install Ceilings - 3rd Floor (West Connector)	5	5	Aug-28-19	Sep-4-19	□ Install Ceilings
WC-3-118	Install Lights; Difusers; F.P. Heads; Etc - 3rd Floor (West Connector)	5	5	Sep-5-19	Sep-11-19	□ Install Lights; I
WC-3-120	Flooring - 3rd Floor (West Connector)	5	5	Sep-12-19	Sep-18-19	□ Flooring - 3rd
WC-3-122	Millwork & Casework - 3rd Floor (West Connector)	5	5	Sep-19-19	Sep-25-19	□ Millwork & Ca
WC-3-124	Balance & Commission - 3rd Floor (West Connector)	5	5	Sep-19-19	Sep-25-19	□ Balance & Co
WC-3-126	Doors & Final Finishes - 3rd Floor (West Connector)	5	5	Sep-26-19	Oct-2-19	□ Doors & Fin:
WC-3-128	W-T Punchlist - 3rd Floor (West Connector)	5	5	Oct-3-19	Oct-9-19	□ W-T Punchl
WC-3-130	Final Clean - 3rd Floor (West Connector)	1	1	Oct-10-19	Oct-10-19	□ Final Clean
WC-3-132	D.T. Punchlist - 3rd Floor (West Connector)	5	5	Oct-10-19	Oct-16-19	□ D.T. Punch
WC-3-134	Complete 3rd Floor (West Connector)	0	0		Oct-16-19	♦ Complete 3
WC-3-136	UConn Furniture - 3rd Floor (West Connector)	5	5	Oct-22-19	Oct-28-19	□ UConn Fu
2nd Floor						
WC-2-100	Demolition & Abatment - 2nd Floor (West Connector)	7	7	Jul-2-19	Jul-11-19	□ Demolition & Abatme
WC-2-102	Wall Framing - 2nd Floor (West Connector)	5	5	Jul-12-19	Jul-18-19	□ Wall Framing - 2nd F
WC-2-104	Install Ductwork & Above Ceiling HVAC - 2nd Floor (West Connector)	10	10	Jul-19-19	Aug-1-19	□ Install Ductwork &
WC-2-106	Rough-in Electrical (in-Wall & Above Ceiling - 2nd Floor (West Connector)	10	10	Jul-26-19	Aug-8-19	□ Rough-in Electrica
D ata Date: Feb-20-18	Remaining Work Gant-12					



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Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2018 2019 2020
WC-2-108	Install Plumbing - 2nd Floor (West Connector)	5	5	Aug-2-19	Aug-8-19	N D Jan F Mar Apr M Jun Jul A S Oct N D Jan F M Apr M Jun Jul A S Oct N D Jan - Install Plumbing -
WC-2-110	In-wall Inspections - 2nd Floor (West Connector)	5	5	Aug-12-19	Aug-16-19	■ In-wall Inspection
WC-2-112	Drywall & Taping - 2nd Floor (West Connector)	5	5	Aug-19-19	Aug-27-19	□ Drywall & Taping
WC-2-114	Prime & 1st Coat of Paint - 2nd Floor (West Connector)	2	2	Aug-28-19	Aug-29-19	Prime & 1st Co
WC-2-116	Install Ceilings - 2nd Floor (West Connector)	5	5	Aug-30-19	Sep-6-19	□ Install Ceilings
WC-2-118	Install Lights; Difusers; F.P. Heads; Etc - 2nd Floor (West Connector)	5	5	Sep-9-19	Sep-13-19	□ Install Lights;
WC-2-120	Flooring - 2nd Floor (West Connector)	5	5	Sep-16-19	Sep-20-19	□ Flooring - 2nd
WC-2-122	Millwork & Casework - 2nd Floor (West Connector)	5	5	Sep-23-19	Sep-27-19	■ Millwork & Ca
WC-2-124	Balance & Commission - 2nd Floor (West Connector)	5	5	Sep-23-19	Sep-27-19	■ Balance & C
WC-2-126	Doors & Final Finishes - 2nd Floor (West Connector)	5	5	Sep-30-19	Oct-4-19	Doors & Fin
WC-2-128	W-T Punchlist - 2nd Floor (West Connector)	5	5	Oct-7-19	Oct-11-19	□ W-T Punch
WC-2-130	Final Clean - 2nd Floor (West Connector)	1	1	Oct-14-19	Oct-14-19	□ Final Clear
WC-2-132	D.T. Punchlist - 2nd Floor (West Connector)	5	5	Oct-14-19	Oct-18-19	□ D.T. Punc
WC-2-134	Complete 2nd Floor (West Connector)	0	0		Oct-18-19	♦ Complete
WC-2-136	UConn Furniture - 2nd Floor (West Connector)	5	5	Oct-29-19	Nov-4-19	□ UConn F
1st Floor	- Commence				1121 112	
WC-1-100	Demolition & Abatement - 1st Floor (West Connector)	7	7	Jul-5-19	Jul-15-19	□ Demolition & Abater
WC-1-102	Wall Framing - 1st Floor (West Connector)	5	5	Jul-16-19	Jul-22-19	□ Wall Framing - 1st l
WC-1-104	Install Ductwork & Above Ceiling HVAC - 1st Floor (West Connector)	10	10	Jul-23-19	Aug-5-19	□ Install Ductwork &
WC-1-106	Rough-in Electrical (in-Wall & Above Ceiling - 1st Floor (West Connector)	10	10	Jul-30-19	Aug-13-19	□ Rough-in Electric
WC-1-108	Install Plumbing - 1st Floor (West Connector)	5	5	Aug-6-19	Aug-13-19	□ Install Plumbing -
WC-1-110	In-wall Inspections - 1st Floor (West Connector)	5	5	Aug-14-19	Aug-20-19	□ In-wall Inspection
WC-1-112	Drywall & Taping - 1st Floor (West Connector)	5	5	Aug-21-19	Aug-29-19	□ Drywall & Tapin
WC-1-114	Prime & 1st Coat of Paint - 1st Floor (West Connector)	2	2	Aug-30-19	Sep-3-19	□ Prime & 1st Co
WC-1-116	Install Ceilings - 1st Floor (West Connector)	5	5	Sep-4-19	Sep-10-19	□ Install Ceilings
WC-1-118	Install Lights; Difusers; F.P. Heads; Etc - 1st Floor (West Connector)	5	5	Sep-11-19	Sep-17-19	□ Install Lights;
WC-1-120	Flooring - 1st Floor (West Connector)	5	5	Sep-18-19	Sep-24-19	□ Flooring - 1st
WC-1-122	Millwork & Casework - 1st Floor (West Connector)	5	5	Sep-25-19	Oct-1-19	□ Millwork & C
WC-1-124	Balance & Commission - 1st Floor (West Connector)	5	5	Sep-25-19	Oct-1-19	■ Balance & C
WC-1-126	Doors & Final Finishes - 1st Floor (West Connector)	5	5	Oct-2-19	Oct-8-19	Doors & Fir
WC-1-128	W-T Punchlist - 1st Floor (West Connector)	5	5	Oct-9-19	Oct-15-19	■ W-T Punch
WC-1-130	Final Clean - 1st Floor (West Connector)	1	1	Oct-16-19	Oct-16-19	□ Final Clear
WC-1-132	D.T. Punchlist - 1st Floor (West Connector)	5	5	Oct-16-19	Oct-22-19	□ D.T. Punc
WC-1-134	Complete Phase 1 - 1st Floor (West Connector)	0	0		Oct-22-19	◆ Complete
WC-1-136	UConn Furniture - 1st Floor (West Connector)	5	5	Nov-5-19	Nov-11-19	■ UConn
Sitework & Utilit	ies					
SW-100	Site Utilities (Coordinate with NWSQ Infra. Proj.) - Site	65	65	Mar-16-18*	Jun-22-18	Site Utilities (Coordinate with NWSQ Infra. Proj.) - Site
SW-102	South West Entrance Sitework & Canopy (Coordinate with NWSQ Infra. Proj.)	65	65	May-7-18*	Aug-8-18	South West Entrance Sitework & Canopy (Coordinate v
Close-out						
CLOSE-10	Owner Training	10	10	May-6-19	May-17-19	Owner Training
D ata Date: Feb-20-18	Remaining Work Gant-12					







Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	201  N D Jan F Mar Apr M Jun	8 Jul A S Oct N D Ja	2020 In F M Apr M Jun Jul A S Oct N D Jan <sup>1</sup>
CLOSE-16	Final Testing & Commissioning	50	50	Mar-20-19	Jun-5-19			Final Testing & Commiss
CLOSE-12	Final Punch list	25	25	May-6-19	Jun-10-19			Final Punch list
CLOSE-18	Substantial Completion of South Wing	0	0		Jun-10-19			<ul> <li>Substantial Completion</li> </ul>
CLOSE-24	Near Warranty End CX Review	0	0	Jun-11-19				♦ Near Warranty End CX
CLOSE-20	Physics Department Moves to South Wing from West	10	10	Jun-11-19	Jun-24-19			Physics Department M
CLOSE-22	Substantial Completion of West Connector Phase	0	0		Oct-22-19			♦ Substantia
CLOSE-26	UCONN Furniture Complete at West Connector	0	0		Nov-11-19			♦ UCONN



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## Bid Issue – Addendum # 04.1 Dated: February 14, 2018

The attention of bidders submitting proposals for the subject project:

Project # 901803 University of Connecticut, Gant Building Renovations - Stem

is called to the following Addendum to the Contract Forms and Specifications.

The items set forth herein, whether of omission, addition, substitution or clarification are to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 4.1), MUST BE ENTERED IN THE SPACE PROVIDED ON THE PROPOSAL FORM.

#### Part 1 - Response to Bid RFIs

1. No Bid RFI's received.

#### Part 2 - Specifications

- 1. Specification revisions
  - a. Specification Narrative Only:
    - i. Section 012200 Unit Prices Revision
      - Paragraph 3.1, L, revise general description for Unit Price 12 to be "Repair cracks 1/16" to 1/4" wide maximum with grout injection. See specification for repair of cracks of different size. (CR2)"
  - b. Specification Narrative + Attachment:
    - ii. Section 033550 Concrete Repair Revisions
      - 1. Paragraph 3.4, A.2, revise isolated hairline crack dimension criteria to be "cracks a maximum of 1/16 inch in width."
      - 2. Paragraph 3.4, A.3, revise larger crack dimension dimension criteria to be "cracks between 1/16 inch to a maximum of 1/4 inch in width", and "contractor can route out cracks smaller than 1/4 inch to a maximum width of 1/4 inch."
      - 3. Add paragraph 3.4, A.4, which states that "cracks larger than 1/4 inch in width, follow patching repair application procedures previously specified in section 3.3."

## Part 3 - Architectural (See Descriptions & Attachments)

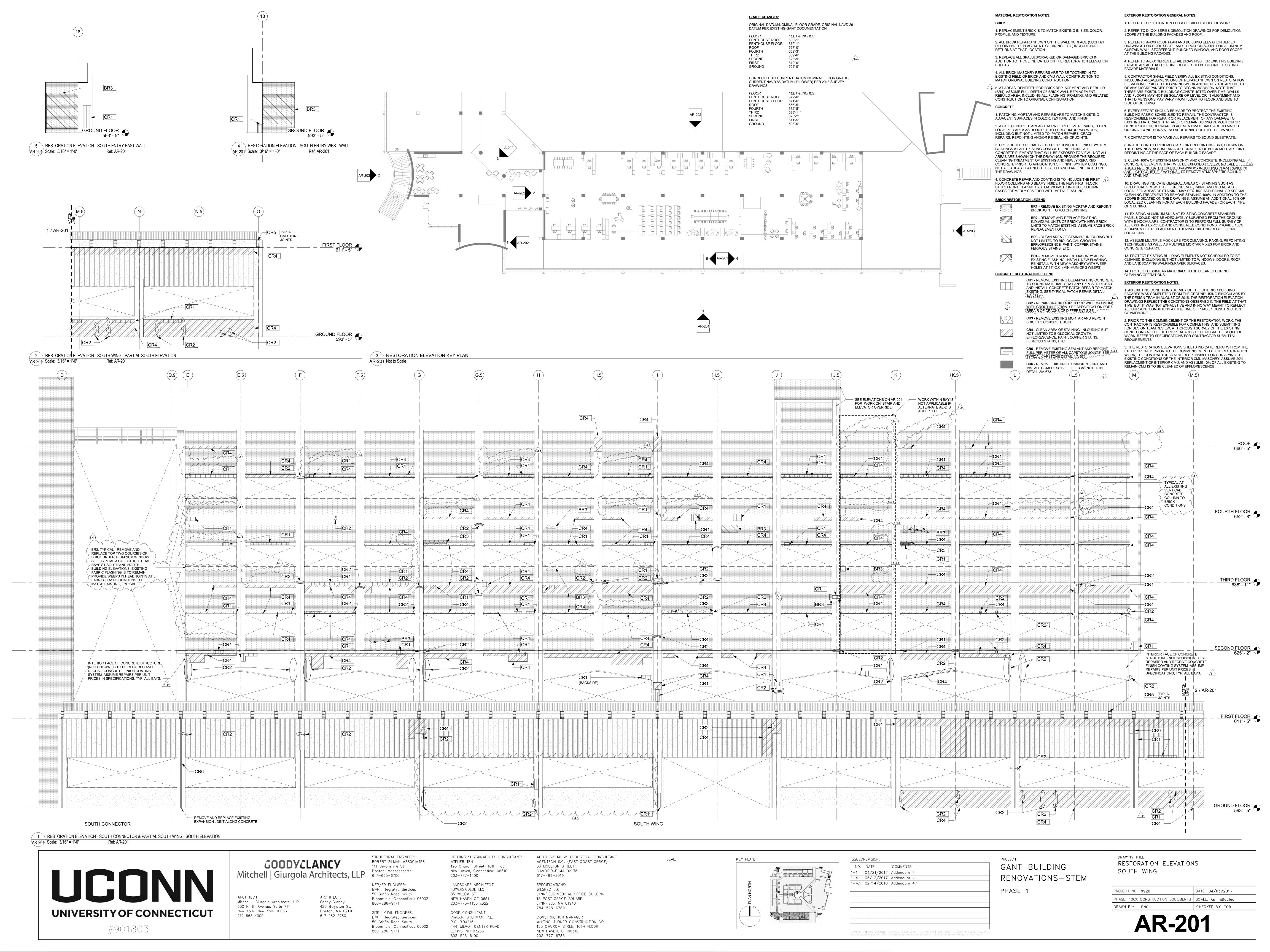
- 1. Exterior Architectural Drawing Revisions
  - a. Narrative + Attachment:
    - i. Exterior Restoration Genreal Notes on AR series drawings:
      - a. Note 9 to be revised to read, "Clean 100% of existing masonry and concrete, Including all concrete elements that will be exposed to view: not all areas are indicated on the drawings Including the Plaza Pavilion and Light Court elevations to remove atmoshpheric spoiling and staining."
    - ii. AR-201:
      - a. Add Note: BR2, Typical Remove and Replace top two courses of brick under the aluminum window sill. Typical at 2<sup>nd</sup> 3r and 4<sup>th</sup> floors of all structural bays at the South and North building elevations. Existing fabric flashing is to remain. Provide weepsin head joints at fabric flashing location to match exsiting, typical.
      - b. On Concrete Restoration Legend, revise detail reference number in concrete repair CR1 note to indicate "detail 3/A-673."
      - c. On Concrete Restoration Legend, revise concrete repair CR2 note to indicate "Repair cracks 1/16" to 1/4" wide maximum with grout injection. See specification for repair of cracks of different size."
      - d. On Concrete Restoration Legend, revise concrete repair CR5 note to indicate "Remove existing

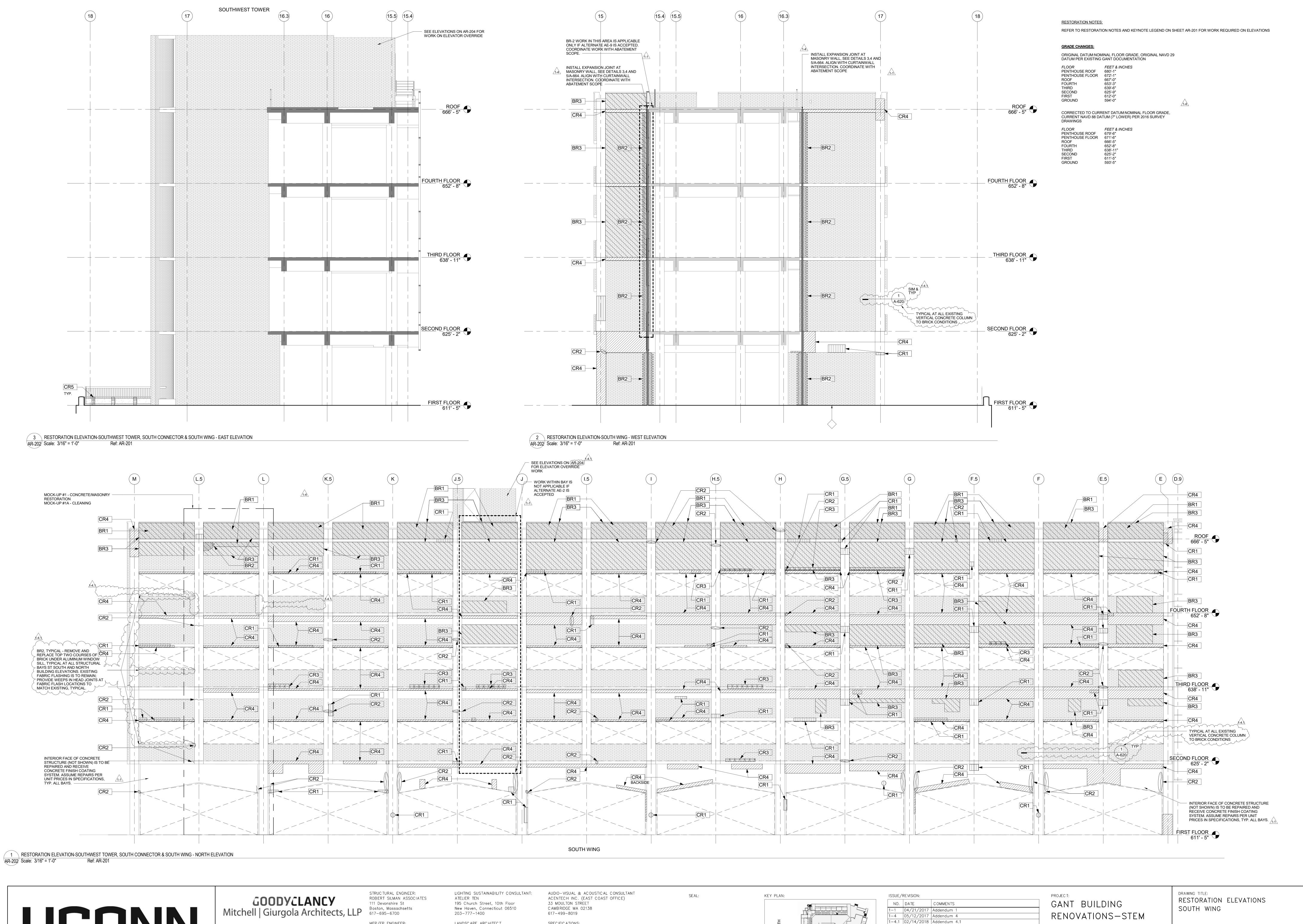
- sealant and repoint full perimeter of all capstone joints, see typical capstone detail 1/A-673."
- e. On building elevation 1/AR-201, delete concrete repair CR3 tags/notes and hatching that occur at existing vertical concrete column to brick conditions (20 locations).
- f. On building elevation 1/AR-201, revise concrete repair CR3 note, that occurs at the third floor of column line 'I', to be a CR1 repair type (1 location).
- g. On building elevation 1/AR-201, add typical detail bubble/reference 1/A-620.

### iii. AR-202:

- a. Add Note: BR2, Typical Remove and Replace top two courses of brick under the aluminum window sill. Typical at 2<sup>nd</sup> 3r and 4<sup>th</sup> floors of all structural bays at the South and North building elevations. Existing fabric flashing is to remain. Provide weepsin head joints at fabric flashing location to match exsiting, typical.
- b. On building elevation 1/AR-202, delete concrete repair CR3 notes that occur at existing vertical concrete column to brick conditions (2 locations).
- c. On building elevation 1/AR-202, add typical detail bubble/reference 1/A-620.
- d.On building elevation 1/AR-202, revise sheet reference number to be "AR-204" at existing elevator override.
- e. On building elevation 2/AR-202&1/AR-203, add similar and typical detail bubble/reference 1/A-620, and add note "Typical at all existing vertical concrete column to brick conditions."
- iv. On sheet A-620, detail 1/A-620 revised to show and annotate new sealant and backer rod that typically is to occur between existing vertical concrete columns to brick conditions.
- v. On sheet A-673, revise note in detail 1/A-673 to be "Existing Stone Joint: Remove all existing pointing mortar at head joints (both sides of capstone) and at top of capstone. Repoint head joints with mortar and repoint top of capstone with backer rod/sealant/lead weather cap as shown in enlarged detail."
- vi. On sheet A-673, revise note in detail 3/A-673 to delete the last sentence which read "Provide min. 3/4" cover over rebar."

End of Addendum 04.1







ARCHITECT: Mitchell | Giurgola Architects, LLP Goody Clancy 630 Ninth Avenue, Suite 711 420 Boylston St. New York, New York 10036 Boston, MA 02116 212 663 4000 617 262 2760

MEP/FP ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002 860-286-9171 SITE | CIVIL ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002 860-286-9171

LANDSCAPE ARCHITECT TOWERS|GOLDE LLC 85 WILLOW ST NEW HAVEN CT 06511 203-773-1153 x322 CODE CONSULTANT Philip.R. SHERMAN, P.E.

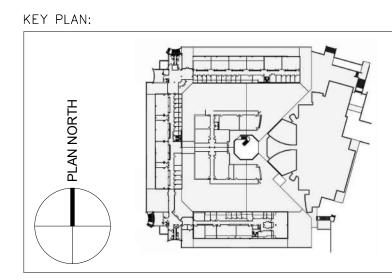
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ELKINS, NH 03233

603-526-6190

444 WILMOT CENTER ROAD

SPECIFIC ATIONS: WILSPEC LLC LYNNFIELD MEDICAL OFFICE BUILDING 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 CONSTRUCTION MANAGER WHITING-TURNER CONSTRUCTION CO. 123 CHURCH STREE, 10TH FLOOR NEW HAVEN, CT 06510 203-777-6783

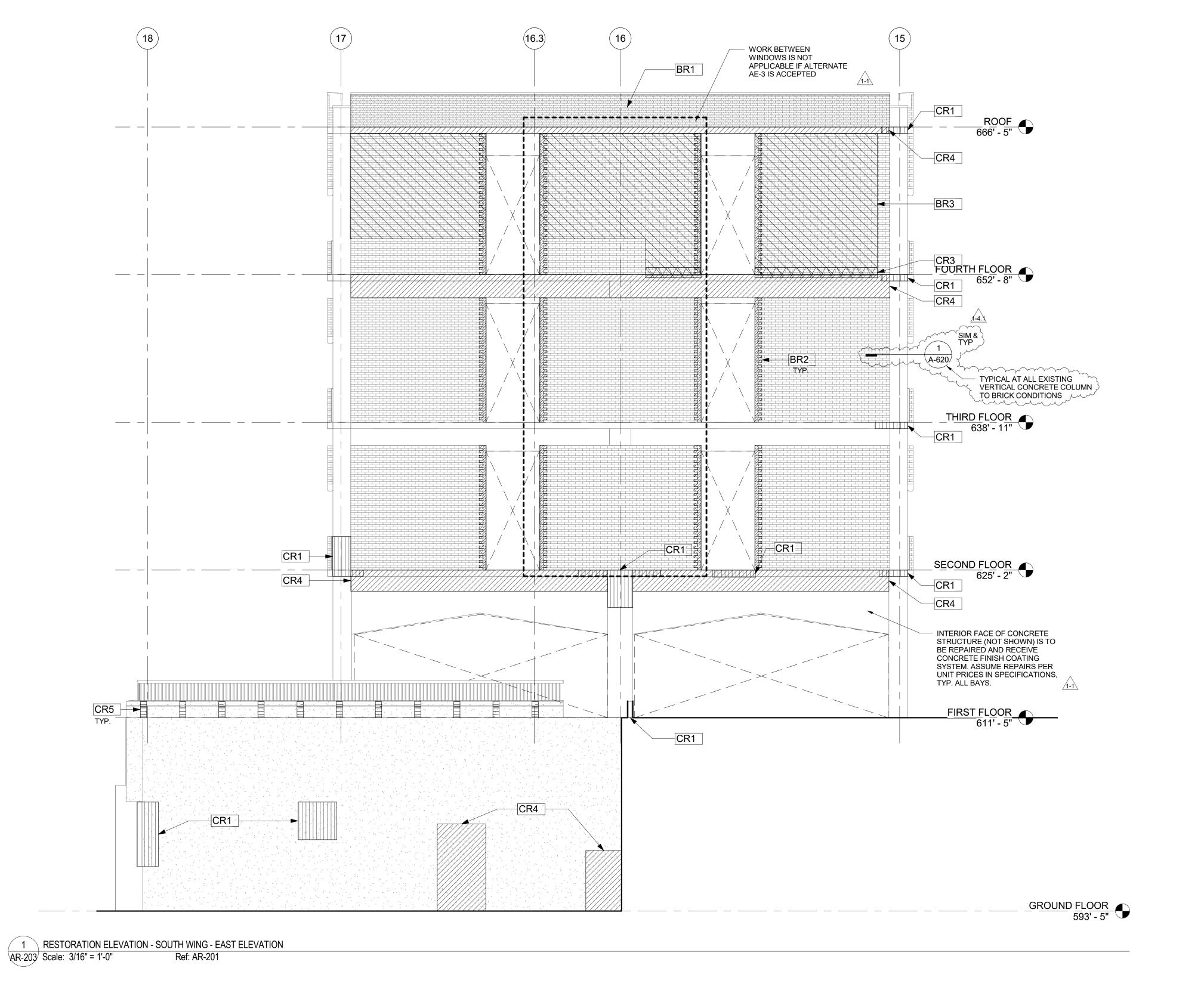


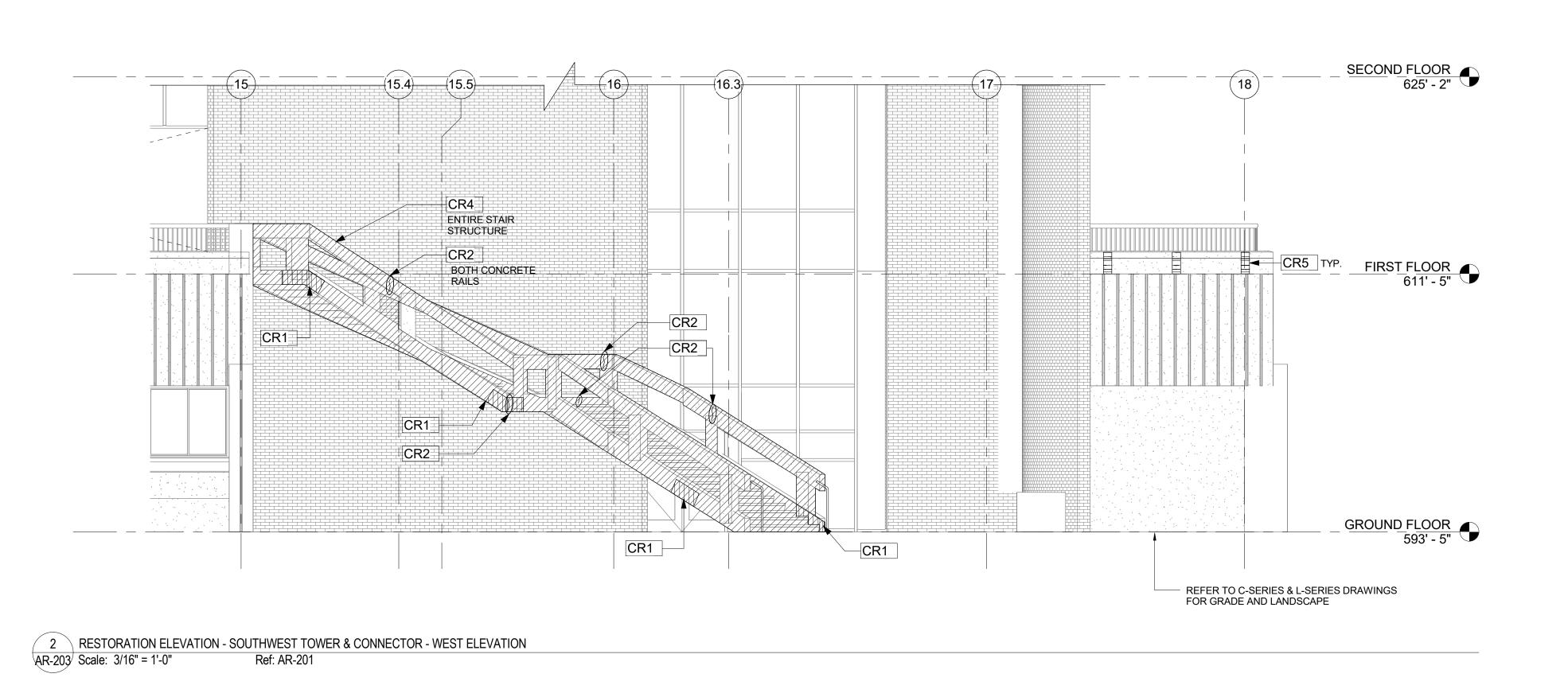
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PHASE 1

PROJECT NO: 9920 DATE: 04/03/2017 PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: As indicated DRAWN BY: PNC CHECKED BY: TOB

**AR-202** 





**RESTORATION NOTES:** 

**GRADE CHANGES:** 

FOURTH THIRD SECOND FIRST

GROUND

DRAWINGS

ROOF FOURTH THIRD SECOND FIRST GROUND

FLOOR FEET & I PENTHOUSE ROOF 680'-1"

PENTHOUSE FLOOR 672'-1"

FLOOR FEET & IN PENTHOUSE ROOF 679'-6" PENTHOUSE FLOOR 671'-6"

ORIGINAL DATUM:NOMINAL FLOOR GRADE, ORIGINAL NAVD 29

FEET & INCHES

DATUM PER EXISTING GANT DOCUMENTATION

653'-3" 639'-6"

612'-0"

594'-0"

652'-8" 638'-11" 625'-2" 611'-5" 593'-5"

CORRECTED TO CURRENT DATUM:NOMINAL FLOOR GRADE, CURRENT NAVD 88 DATUM (7" LOWER) PER 2016 SURVEY

FEET & INCHES

REFER TO GENERAL RESTORATION NOTES AND KEYNOTE LEGEND ON SHEET AR-201 FOR FULL SCOPE OF WORK



STRUCTURAL ENGINEER: ROBERT SILMAN ASSOCIATES GOODYCLANCY Mitchell | Giurgola Architects, LLP

ARC HITEC T: Mitchell | Giurgola Architects, LLP 630 Ninth Avenue, Suite 711 New York, New York 10036 212 663 4000 Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760

111 Devonshire St Boston, Massachsetts 617-695-6700 MEP/FP ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002 860-286-9171 SITE | CIVIL ENGINEER:

BVH Integrated Services 50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

LIGHTING SUSTAINABILITY CONSULTANT: ATELIER TEN 195 Church Street, 10th Floor New Haven, Connecticut 06510 203-777-1400 LANDSCAPE ARCHITECT TOWERS|GOLDE LLC 85 WILLOW ST

NEW HAVEN CT 06511

203-773-1153 x322

CODE CONSULTANT

P.O. BOX216

Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD ELKINS, NH 03233 603-526-6190

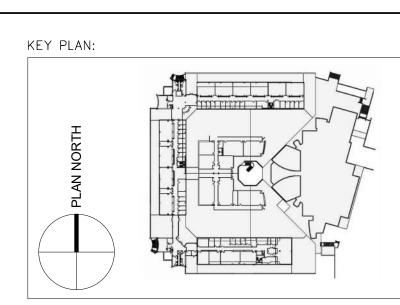
CAMBRIDGE MA 02138 617-499-8019 SPECIFIC ATIONS: WILSPEC LLC LYNNFIELD MEDICAL OFFICE BUILDING 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 CONSTRUCTION MANAGER
WHITING-TURNER CONSTRUCTION CO.

123 CHURCH STREE, 10TH FLOOR NEW HAVEN, CT 06510 203-777-6783

33 MOULTON STREET

AUDIO-VISUAL & ACOUSTICAL CONSULTANT ACENTECH INC. (EAST COAST OFFICE)

SEAL:

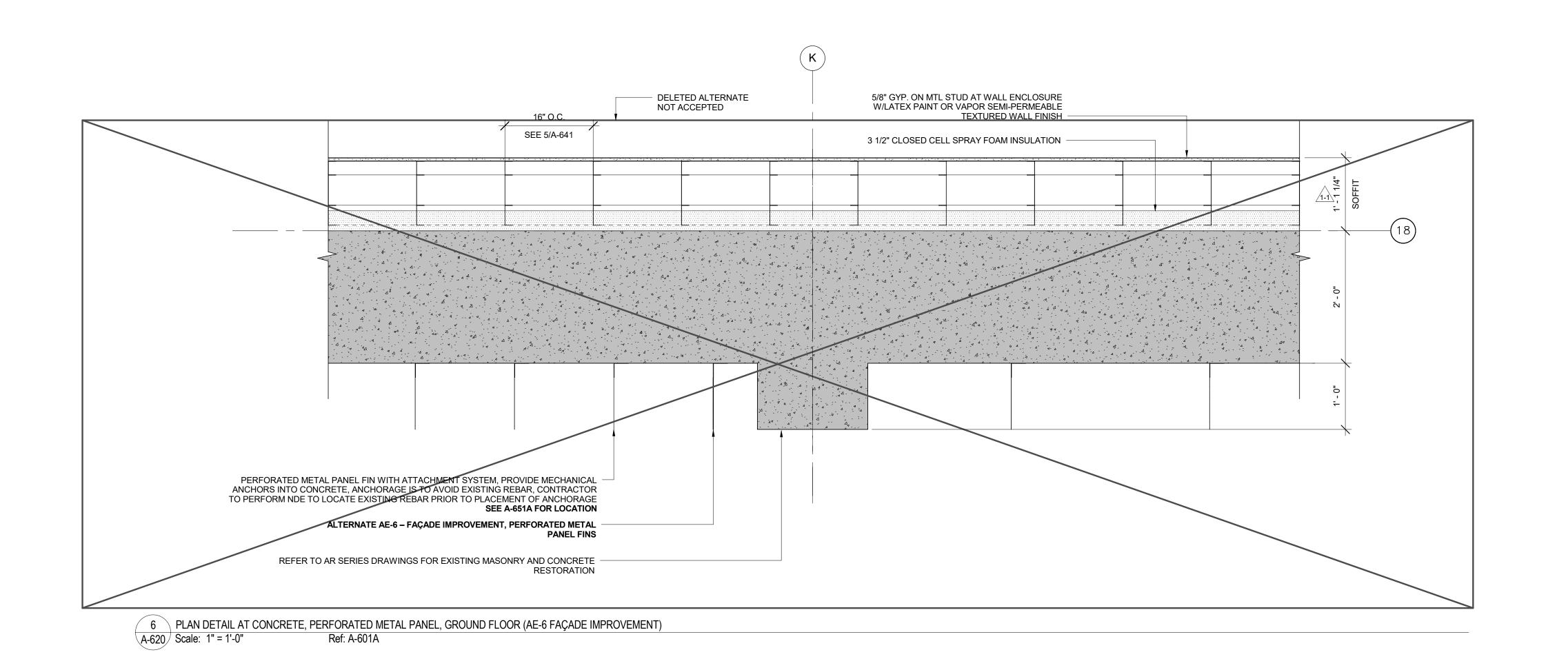


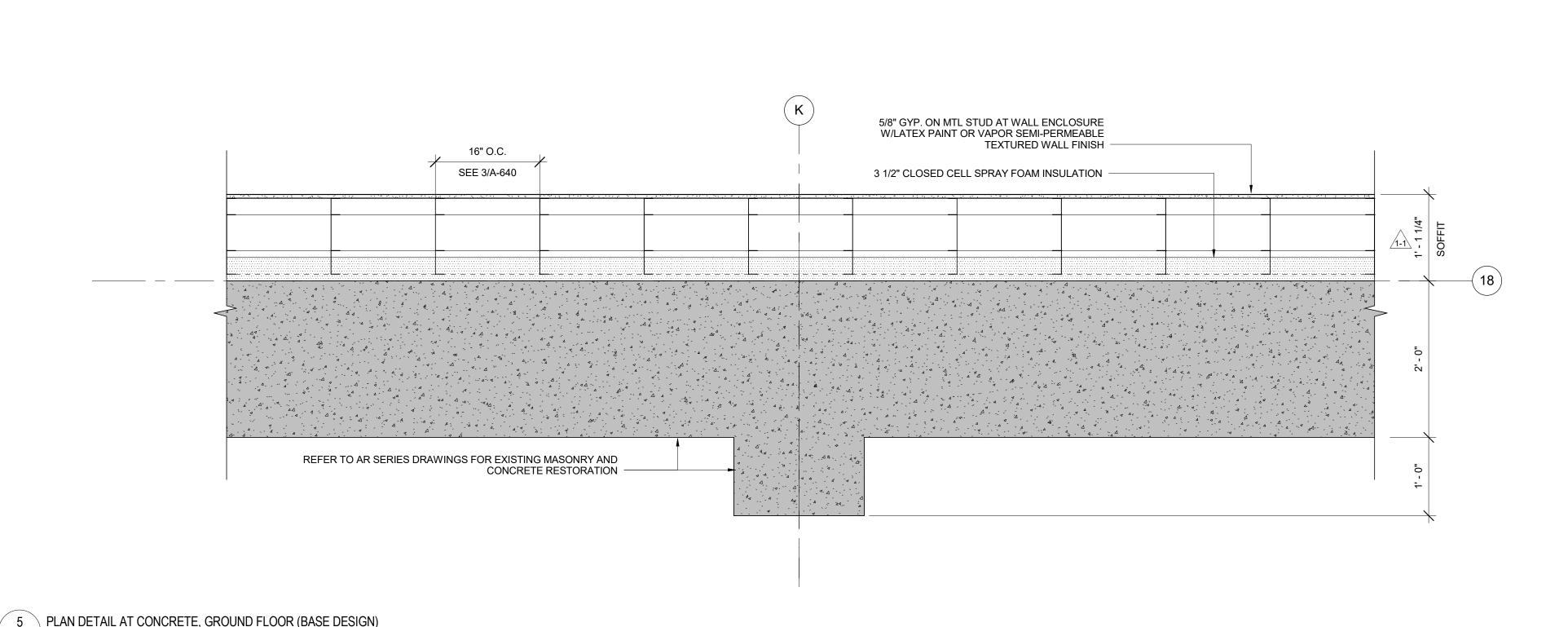
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NO.	DATE	COMMENTS
I <i>-</i> 1	04/21/2017	Addendum 1
1-4	05/12/2017	Addendum 4
1-4.1	02/14/2018	Addendum 4.1

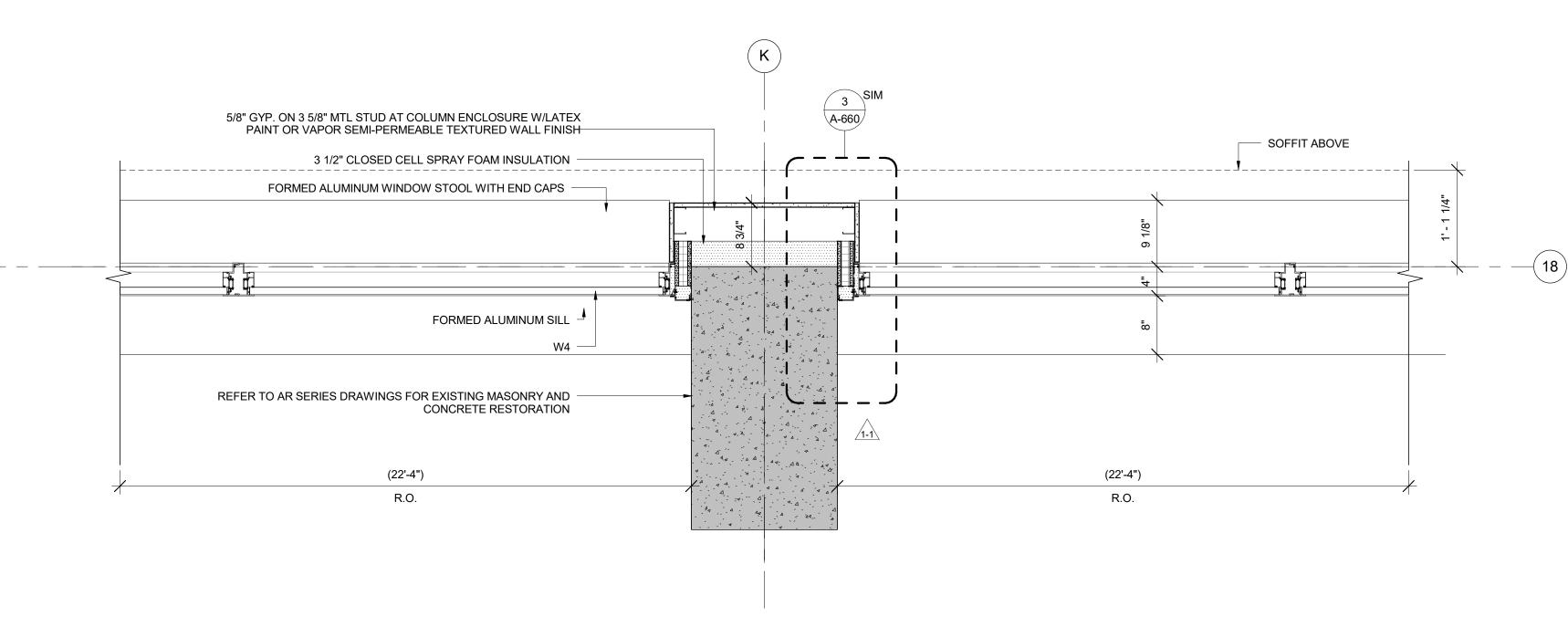
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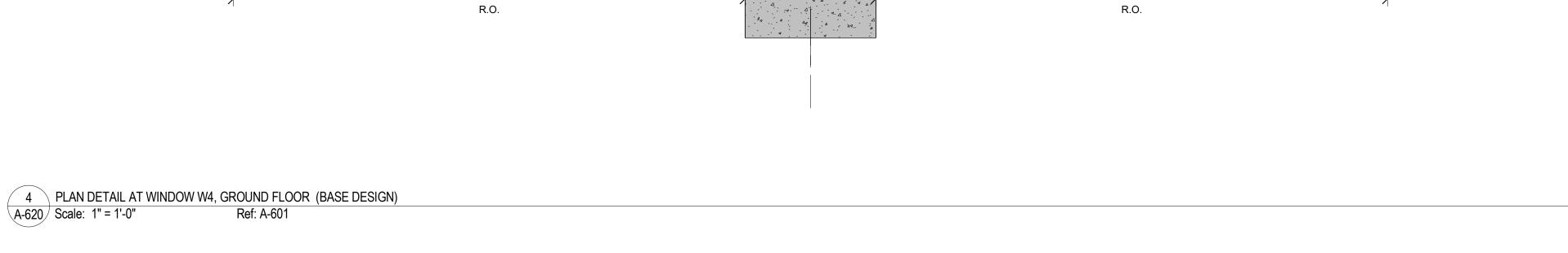
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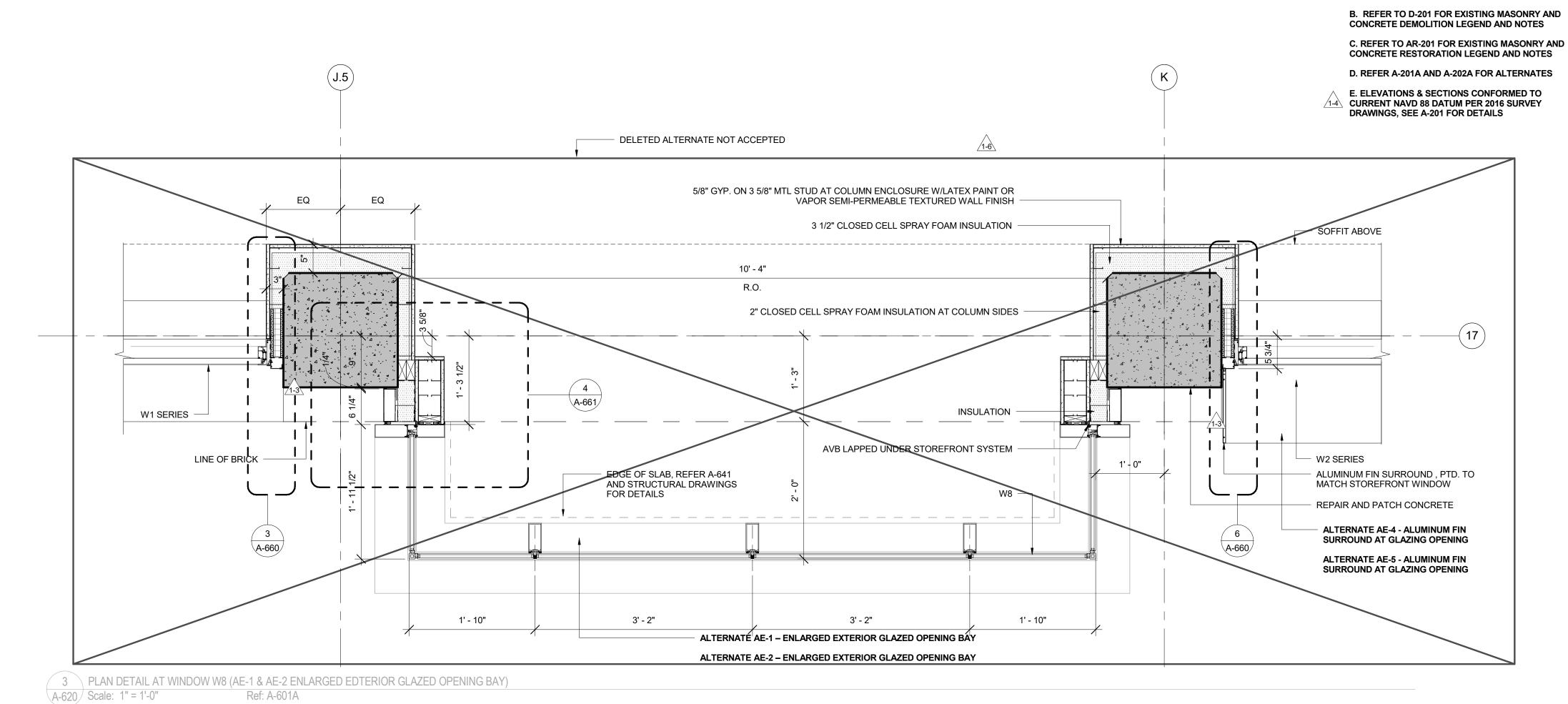
DATE: 04/03/2017 PROJECT NO: 9920 PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: As indicated CHECKED BY: TOB DRAWN BY: PNC **AR-203** 

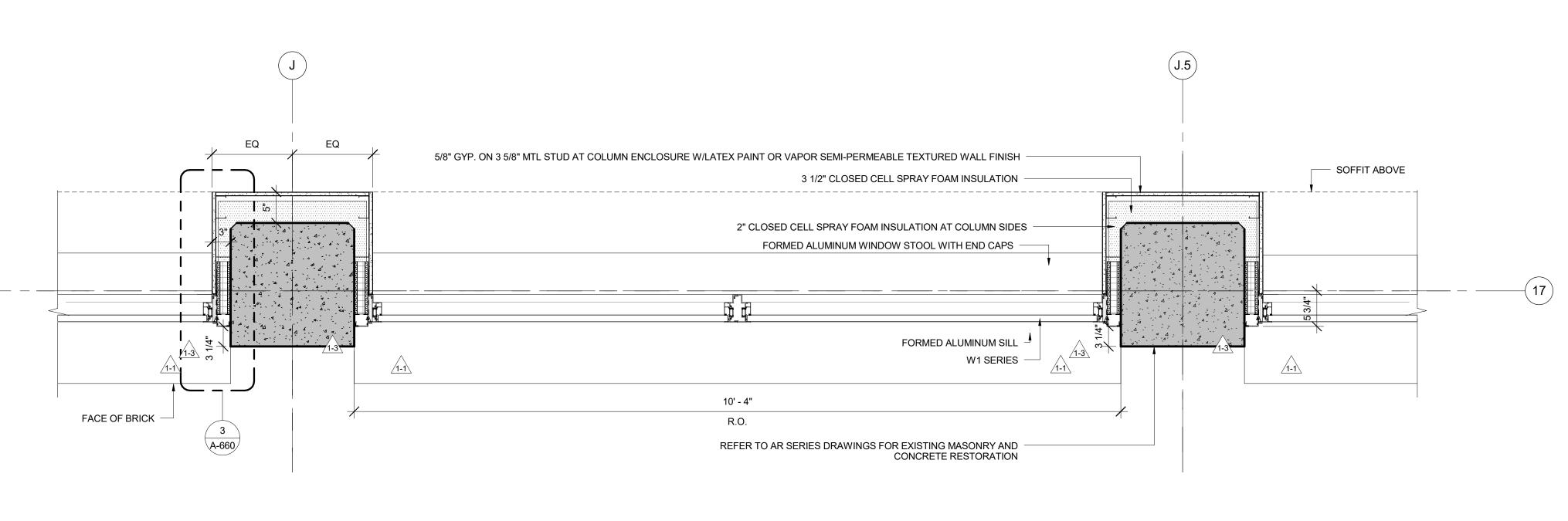




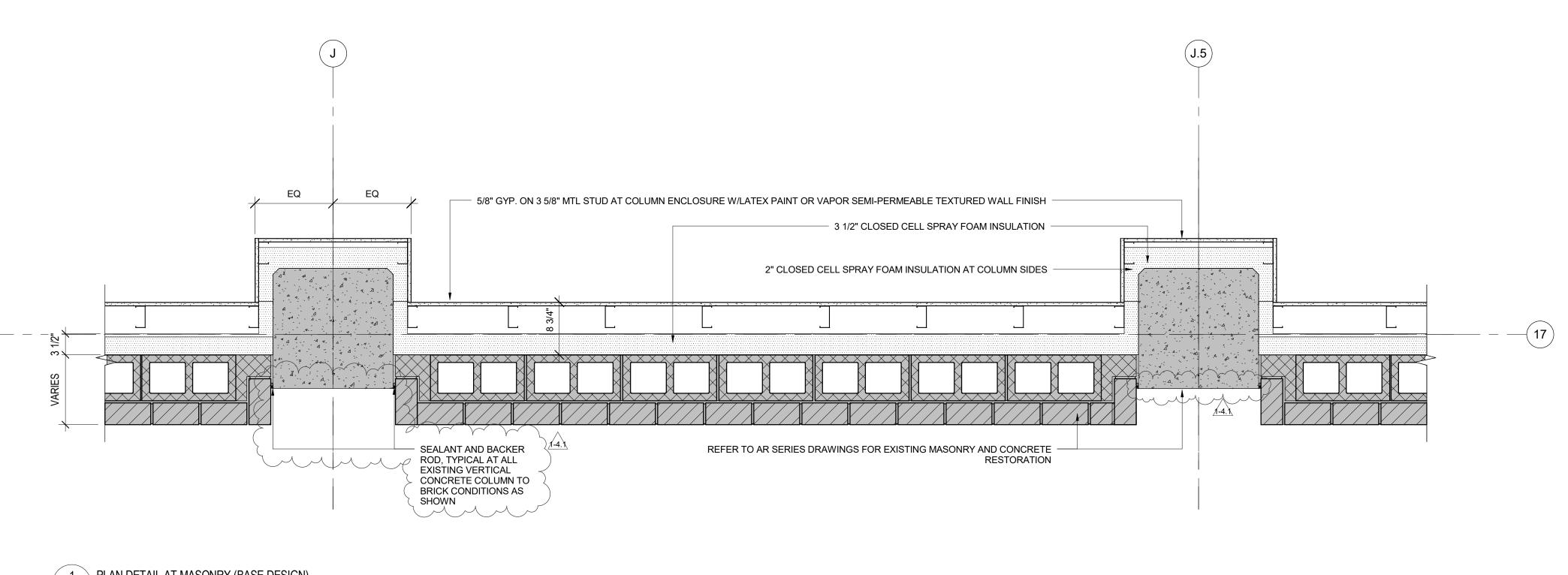


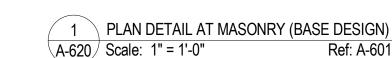












SEAL:



GOODYCLANCY
Mitchell | Giurgola Architects, LLP

Mep/fp Engineer:

ROBERT SILMAN ASSOCIATES
111 Devonshire St
Boston, Massachsetts
617–695–6700

MEP/FP ENGINEER:

ARCHITECT:
Mitchell | Giurgola Architects, LLP
Goody Clancy
630 Ninth Avenue, Suite 711
New York, New York 10036
212 663 4000

ARCHITECT:
Goody Clancy
420 Boylston St.
Boston, MA 02116
617 262 2760

111 Devonshire St
Boston, Massachsetts
617-695-6700

MEP/FP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

SITE | CIVIL ENGINEER:
BVH Integrated Services

50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

STRUCTURAL ENGINEER:

LIGHTING SUSTAINABILITY CONSULTANT:
ATELIER TEN
195 Church Street, 10th Floor
New Haven, Connecticut 06510
203-777-1400

LANDSC APE ARCHITECT
TOWERS|GOLDE LLC
85 WILLOW ST
NEW HAVEN CT 06511
203-773-1153 x322

CODE CONSULTANT

Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD

P.O. BOX216

ELKINS, NH 03233

603-526-6190

AUDIO-VISUAL & ACOUSTICAL CONSULTANT
ACENTECH INC. (EAST COAST OFFICE)

33 MOULTON STREET
CAMBRIDGE MA 02138
617-499-8019

SPECIFICATIONS:
WILSPEC LLC
LYNNFIELD MEDICAL OFFICE BUILDING
15 POST OFFICE SQUARE
LYNNFIELD, MA 01940
784-598-6789

CONSTRUCTION MANAGER
WHITING-TURNER CONSTRUCTION CO.

123 CHURCH STREE, 10TH FLOOR

NEW HAVEN, CT 06510

203-777-6783

ISSUE/REVISION:

NO. DATE COMMENTS

1-1 04/21/2017 Addendum 1

1-3 05/05/2017 Addendum 3

1-4 05/12/2017 Addendum 4

1-6 08/11/2017 Bulletin 6

1-4.1 02/14/2018 Addendum 4.1

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GANT BUILDING
RENOVATIONS—STEM
PHASE 1

PROJECT NO: 9920

PHASE: 100% CONSTRUCTION DOCUMENTS

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DRAWN BY: Author

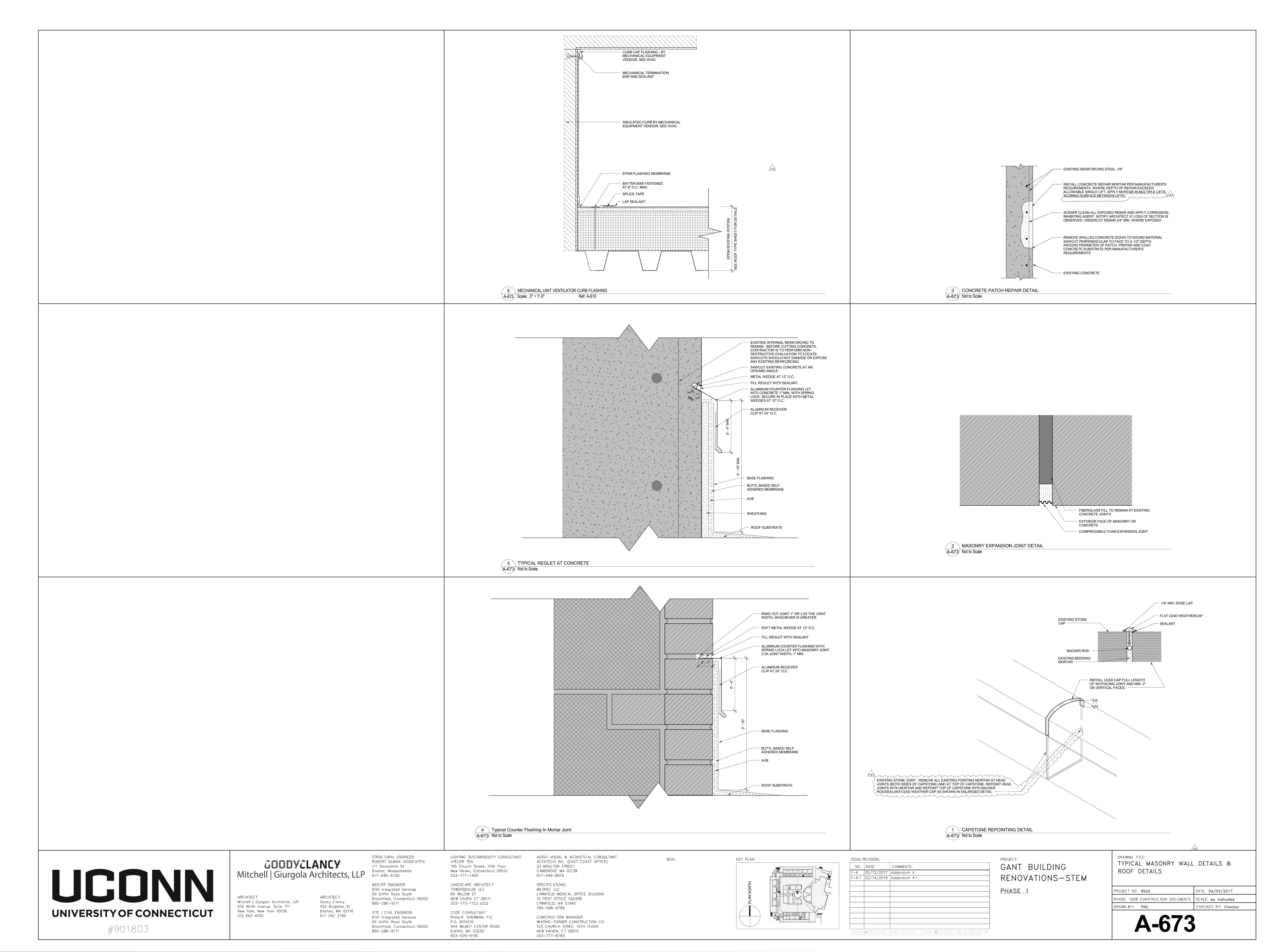
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**GENERAL NOTES** 

A. REFER TO A-201 FOR TYPICAL LEGEND AND

A-620



Phase 1

Addendum No. 4.1 February 14, 2018

# UNIVERSITY OF CONNECTICUT GANT BUILDING RENOVATION - STEM

Storrs Campus, Building # 0331 Storrs, Connecticut

## SECTION 03 35 50 CONCRETE REPAIR

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions apply to the work of this Section.

## 1.2 SUMMARY

- A. Section includes, but is not limited to the following as shown on the drawings and as specified herein:
  - 1. Removal of deteriorated concrete as described herein.
  - 2. Preparing the surface for repair, including cleaning of concrete and reinforcement and applying anti-corrosion agent to the reinforcement.
  - 3. Supplying materials and the mixing and placing of concrete patching material as shown and described on the Drawings and as specified herein, including finishing and curing.
  - 4. Crack Repair
  - 5. Providing temporary support of existing construction and protection of adjacent areas, as required.
  - 6. The quality control testing of all materials.
  - 7. All other work and materials as may be reasonably inferred and needed to make the work of this section complete.
  - 8. The preparation and installation of mockups if required by the project team.

## 1.3 RELATED REQUIREMENTS

- A. Division 01 Section "General Requirements"
- B. Division 03 Section "Cast-in-Place Concrete"
- C. Division 09 Section "Silicate Exterior Coatings"

#### 1.4 REFERENCES

- A. Codes and Standards: Comply with provisions of the following codes, specifications and standards, as referenced by the Building Code, except where more stringent requirements are shown or specified:
  - 1. ACI 201.1R "Guide for Conducting a Visual Inspection of Concrete in Service"
  - 2. ACI 224.1R "Causes, Evaluation and Repair of Cracks in Concrete Structures"
  - 3. ACI 301 "Specifications for Structural Concrete"
  - 4. ACI 304R "Guide for Measuring, Mixing, Transporting and Placing Concrete"
  - 5. ACI 308.1 "Standard Specification for Curing Concrete"
  - 6. ACI 315 "Details and Detailing of Concrete Reinforcement"
  - 7. ACI 318 "Building Code Requirements for Structural Concrete and Commentary"
  - 8. ACI 347 "Guide for Evaluation of Concrete Structures Before Rehabilitation"
  - 9. ACI 364.1R 'Guide for Evaluation of Concrete Structures Prior to Rehabilitation"
  - 10. ACI 437R "Strength Evaluation of Existing Concrete Buildings"
  - 11. ACI 503R "Use of Epoxy Compounds with Concrete"
  - 12. ACI 562 "Code Requirements for Evaluation, Repair and Rehabilitation of Concrete Buildings and Commentary"

Addendum No. 4.1 February 14, 2018

Phase 1

## UNIVERSITY OF CONNECTICUT **GANT BUILDING RENOVATION - STEM**

Storrs Campus, Building # 0331 Storrs, Connecticut

- 13. ACI SP-66 "ACI Detailing Manual"
- 14. ASTM C823 "Standard Practice for Examination and Sampling of Hardened Concrete in Constructions"
- 15. ICRI 210.3 "Guide for Using In-Situ Tensile Pull-Off Tests to Evaluate Bond of Concrete Surface Materials"
- 16. ICRI 310.1R "Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion"
- 17. Concrete Reinforcing Steel Institute, (CRSI) "Manual of Standard Practice"
- 18. ASTM Standards as applicable and as noted in this specification.

## 1.5 SUBMITTALS

#### A. Action Submittals

- 1. Concrete Field Survey Submittal Requirements: Prior to commencement of repair work at all exterior concrete areas, the Contractor shall complete a thorough survey of the existing conditions to confirm the Contract Document Scope. The Contractor shall inform the Structural Engineer and Architect of any deviations from the scope of work as shown on the drawings.
  - a. After scaffolding is in place and access to an elevation, or portion of an elevation, is available, the Contractor shall review the existing conditions of the facade on an area basis to confirm the scope of work as shown on the drawings.
  - b. Inspection work shall include full visual inspection and sounding of all existing patch repairs and patching materials, and any areas of new deterioration that is discovered during the visual inspection.
  - c. The contractor shall submit drawings or photographs indicating location, size, estimated quantity and proposed patching material for each repair location.
  - d. The Contractor shall document, on a reproducible set of 1/4" scale elevations furnished by the Architect, the Contract Document Scope based on the Contractor's existing condition field verification information and any deviations from the scope shown on the drawings and submit them for review by the A-E and CM. The survey notation and intent of repairs must be the same as those used in the original drawings.
  - e. The submittal must be reviewed for direction prior to proceeding with final Work in any location
  - f. During the progress of the survey work provide access for the A-E review of the quantity and quality of work.
- 2. Concrete Cleaning Program: Prepare a written cleaning program that describes the cleaning process in detail, including materials, methods and procedures, equipment, and sequence of operations to be used for each phase of cleaning work including protection of surrounding materials and control of runoff during operations at Project site. Do not begin work on site until A-E has approved Work Description in writing. Submit new written descriptive information. Description for cleaning program shall include, but not be limited to:
  - a. Literature: Manufacturer's product data sheets, specifications, chemical, functional, and environmental characteristics. Include manufacturer's test data demonstrating compliance with specifications, and shall include shelf life, mixing instructions, application instructions and storage requirements.
  - b. Work Description: Prior to commencing the cleaning operations, the Contractor shall include in their written description the methods and procedures proposed for cleaning the concrete including, but not limited to: method of application, dilution of application, temperature of application, length of time of surface contact, method of rinsing surface (temperature, pressure, and duration) repetition of procedure.

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# UNIVERSITY OF CONNECTICUT GANT BUILDING RENOVATION - STEM

Storrs Campus, Building # 0331 Storrs, Connecticut

- c. Methods of Protection: Prior to commencing the cleaning operations, the Contractor shall submit a written description of proposed materials and methods of protection for preventing damage to any material not being cleaned, for review.
- d. Methods of Effluent Control: Prior to commencing the cleaning operations, the Contractor shall submit a written description of proposed materials and methods for containment, neutralization, and disposal of all effluent.
- e. Manufacturer's use instructions for filtration equipment and cleaning equipment.
- f. Warranty: Provide sample copies of manufacturer's actual warranties for all materials to be furnished under this Section, clearly defining all terms, conditions, and time periods for the coverage thereof.
- 3. Concrete Repair Program: Prepare a written, detailed description of materials, methods and procedures, equipment, and sequence of operations to be used for each phase of repair work including protection of surrounding materials and Project site. Do not begin work on site until A-E has approved Work Description in writing. Submit new written descriptive information; photocopies of Contract Documents, excerpts from Contract Documents, and/or duplication of text in Contract Documents will not be accepted for Work Description. Description for restoration material shall include, but not be limited to:
  - a. Materials and Procedures (General): Materials, methods, tools, and equipment to be used for each phase and task of concrete repair work.
  - b. Include methods and procedures for hand-applied/trowel-applied patching program for shallow repairs (less than 2" in thickness).
  - c. Include methods and procedures for form and poured patching program for larger repairs (greater than 2" thickness).
  - d. Include methods and procedures for crack injection repairs.
  - e. Include methods and procedures for installation of concrete finish coating system.
  - f. Protection: Description of proposed materials and methods of protection for preventing harm, damage, and deterioration caused by work of this Section to; building elements, materials, and finishes; surrounding landscape and site.
  - g. Alternate Methods and Materials (If Any): If materials and methods other than those indicated are proposed for any phase of repair work, add to the Repair Program a written description of such materials and methods, including evidence of successful use on comparable projects, and demonstrations to show their effectiveness for this Project and worker's ability to use such materials and methods properly.
- 4. Product Data: Provide manufacturer's data sheets and installation procedures for concrete patching materials, repair mortars, anti-corrosion agents, epoxy adhesives.
- 5. Shop Drawings: Rebar and anchors, as required.
- 6. Shoring: As project conditions require, calculations and shop drawings that are signed, sealed and dated by a Professional Engineer for the temporary shoring design.
- B. Informational Submittals
  - 1. Certificates and information required by this specification
  - 2. Laboratory test reports
  - 3. Materials certificates
  - 4. Qualification data as specified herein required under the Article entitled "Qualifications" specified herein below

Phase 1

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# UNIVERSITY OF CONNECTICUT GANT BUILDING RENOVATION - STEM

Storrs Campus, Building # 0331 Storrs, Connecticut

#### 1.6 QUALITY ASSURANCE

- A. Qualifications: Contractor shall be qualified in the field of concrete repair with a successful track record of five years or more. Contractor shall maintain qualified personnel who have received product training by a manufacturer's representative. Provide a list of similar jobs identifying when, where and for whom the work was done, and which have proven successful in all respects for a period at least three years. Submit a certified statement attesting that the experience and qualifications of the workers comply with the specifications.
- B. The manufacturer of the specified product shall be ISO 9001 certified and have in existence a recognized ongoing quality assurance program independently audited on a regular basis.
- C. Contractor shall pay for the services of the manufacturer's representative to be present at start of concrete repair work to ensure proper application. If the continuity of the craftsmen cannot be maintained throughout the project, the Contractor shall pay the manufacturer for additional visits to train new craftsmen.
- D. The Owner shall employ one or more approved agencies, independent from the Contractor, to perform all sampling and testing, except as otherwise specified.
- E. Field-Constructed Mock-Ups: Prior to the start of construction, prepare samples of work and obtain Owner's written acceptance of the samples before proceeding with work. Retain during construction as a standard for judging all completed work.
  - 1. Preparation: Provide a minimum of one (1) area demonstrating surface preparation at loose concrete. Mock-up to show method for removing and roughening concrete, surface cleaning, edge preparation and cleaning/priming of reinforcing bars.
  - 2. Repair Patch: Provide a minimum of one (1) completed patch demonstrating the materials and methods for be used for concrete patching and finishing. The craftsmen performing future patching work shall be the same craftsmen that perform the mock-up. The demonstration shall include surface cleaning, surface patching, curing, surface finish/texturing and appearance.
    - a. Compressive Strength Testing: Take test samples from mock up and deliver to independent testing laboratory for testing, as specified herein, at 7 days and 28 days.
    - b. Bond Strength Testing: Test in-situ for tensile bond at 7 days as specified herein for Direct Tension Bond Test.
  - 3. Crack Repair: Provide a minimum of one (1) completed crack repair demonstrating the materials and methods to be used.
  - 4. Each craftsman should be approved to work on site based on the quality of their individual mock-ups. The Contractor must keep approved craftsmen on the job. If the Contractor wants to bring new or additional craftsmen on to the project, they must be approved by the quality of their individual mock ups related to the work they are intend to do.
  - 5. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- F. The Contractor is responsible for equipment, materials, testing, labor and other items and services required to accomplish the work. Equipment and techniques proposed for use in the work shall not be used until they have been demonstrated and approved. Materials and equipment, which have not been approved for use in the work, shall not be stored or brought on to the site.
- G. Concrete and mortar proposed for use in the work shall have a 28-day compressive strength and air content matching the adjacent existing concrete. If existing documentation does not

Phase 1

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# UNIVERSITY OF CONNECTICUT GANT BUILDING RENOVATION - STEM

Storrs Campus, Building # 0331 Storrs, Connecticut

provide adequate information as to the compressive strength and air content of the existing concrete it shall be determined in accordance with ASTM C39 for compressive strength, and ASTM C457/ASTM C642 for air content. Take test specimens of existing concrete from a sound and intact representative portion of the structure, at locations indicated by the Structural Engineer. All sampling and testing shall be completed by the independent approved agency.

#### 1.7 PRE-INSTALLATION CONFERENCE

A. A pre-installation conference shall be held prior to commencement of field operations to establish procedures, to maintain optimum working conditions and to coordinate this work with related and adjacent work. Agenda for meeting shall include extent of removal and means and methods for the installation of patch repairs and crack fillers. Attendees shall include manufacturer's representative, Contractor, Owner's Representative, Architect and Engineer.

## 1.8 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the project site in manufacturer's original and unopened containers, labeled with manufacturer's name and type of product. Damaged material must be immediately removed from the site.
- B. Comply with manufacturer's written instruction for handling and storage conditions; including moisture and temperature. Consult Material Safety Data Sheets for complete handling recommendations.
- C. Store all materials off the ground and protect from rain, freezing or excessive heat until ready for use.

#### 1.9 PROJECT CONDITIONS

- A. Protect persons from damage or injury which could result from the performance of the Work.
- B. Protect adjacent finish materials and building against spatter during patch material placement.
- C. Environmental Requirements: Do not apply concrete repairs unless the temperature is above 45°F and will remain so for at least 24 hours after completion of work. To control setting time, use cold water when temperature is above 90°F. Stop repair work and protect in-place materials during periods of rain or other precipitation or if such conditions appear to be imminent.
- D. Provide noise and vibration monitoring as directed by the Owner.
- E. See Division 01 for additional site safety, construction and roadway operating requirements.

#### 1.10 WARRANTY

- A. The Contractor shall guarantee the concrete repairs, against defects of materials and workmanship, for a period of five years, beginning with date of substantial completion.
- B. In addition to the Contractor's guarantee, there shall be a Manufacturer's Warranty that the concrete repairs will be sound and free from defects, including coverage against shrinkage of patching material, for a period of ten (10) years, beginning with date of substantial completion

Phase 1

Addendum No. 4.1 February 14, 2018

### UNIVERSITY OF CONNECTICUT GANT BUILDING RENOVATION - STEM

Storrs Campus, Building # 0331 Storrs, Connecticut

### PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. For patching mortars obtain materials for repair (Repair Mortar, Bonding Agent and Anti-Corrosion Agent) from a single manufacturer to better ensure compatibility.
  - 1. Sika Corporation Lyndhurst, NJ
  - 2. Euclid Chemical Cleveland, OH

### 2.2 MATERIALS

- A. Concrete Patches: Properties and composition of concrete patches shall match that of existing concrete to be repaired.
  - Admixtures: Air entraining admixtures shall conform to ASTM C260, water-reducing or retarding admixtures shall conform to ASTM C494, and pigments for integrally colored concrete shall conform to ASTM C979 and ASTMC1017. Admixtures shall not contain added chlorides. Concrete may also contain water reducers, high-range water reducers, or set retarders to provide special properties to the concrete. Use of admixtures shall be subject to approval.
  - Cementitious Material: Provide cementitious materials of one type and from one source. Cement composition shall match that of cement used in existing concrete to be repaired as determined by samples and testing and shall conform to the basic requirements of ASTM C150. Cement shall have non-shrink properties and shall conform to ASTM C1107, Class B or C, expansive cement type.
  - 3. Sand: Clean, sharp sand free of loam, silt, soluble salts and organic matter. Aggregate shall conform to ASTM C144.
  - 4. Proportions of Mixes: Provide trial batches that contain materials proposed to be used in the project. The concrete patching mixtures shall be designed using the lowest practical w/c ratio. Materials, physical and chemical properties, and composition of concrete shall match the existing concrete to be repaired. Submit the results of trial mixture along with a statement giving the maximum nominal coarse aggregate size, aggregate grading, and the proportions of all ingredients that will be used. The statement shall be accompanied by test results from an independent commercial testing laboratory, attesting that the proportions selected will produce concrete of the qualities indicated.

### B. Trowel-Applied Repair Mortar

- 1. For areas of repair that are less than 2" in thickness, provide a fast setting, non-sag, fiber reinforced and polymer modified overhead repair mortar. The mortar shall contain a corrosion inhibitor, have an approved overhead lift height of at least two (2) inches, and conforming to the following:
  - a. Compressive strength compatible with the existing concrete, as specified herein.
  - b. Bond strength of 2,000 psi or more at 28 days when tested in accordance with ASTM C882.
  - Shrinkage shall be less than 0.05% at 28 days when tested in accordance with ASTM C157.
  - d. Rapid Chloride Permeability in "Low Range" (<2000 coulombs) or better at 28 days when tested with ASTM C1202. (Permeability to preferably be in "Very Low Range", <1000 coulombs, if possible.)
- 2. Products Subject to compliance with requirements, provide one of the following:
  - a. Sika Corporation "SikaQuick 123 Plus"

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Storrs Campus, Building # 0331 Storrs, Connecticut

b. Euclid Chemical Company "Duraltop Gel"

### C. Form and Pour Repair Mortar

- 1. For areas of repair that are greater than 2", provide a cementitious, fiber reinforced and polymer modified overhead repair product. The concrete shall contain a corrosion inhibitor. have an approved overhead lift height of at least two (2) inches, and conforming to the following:
  - a. Compressive strength compatible with the existing concrete, as specified herein.
  - b. Bond strength of 2.000 psi or more at 28 days when tested in accordance with ASTM C882.
  - c. Shrinkage shall be less than 0.05% when tested in accordance with ASTM C157.
  - d. Rapid Chloride Permeability in "Low Range" (<2000 coulombs) or better when tested with ASTM C1202. (Permeability to preferably be in "Very Low Range", <1000 coulombs, if possible.)
- 2. Products Subject to compliance with requirements, provide one of the following:
  - a. Sika Corporation "Sikacrete 211 SCC Plus"
  - b. Euclid Chemical Company "EucoRepair SCC"

### D. Anti-Corrosion Agent

- 1. Shall be capable of protecting existing reinforcing steel against rust and corrosion and shall have the following properties:
  - a. Water Permeability of 7.32 maximum at 10 bar (145 psi) of 8.92 x 10<sup>-15</sup> feet/second.
  - b. Water vapor diffusion coefficient  $\mu$  H<sub>2</sub>O of 110
  - c. Carbon dioxide diffusion coefficient µ CO<sub>2</sub> of 14.000
- 2. Products Subject to compliance with requirements, provide one of the following:
  - a. Sika Corporation "Sika Armatec 110 EpoCem"

### E. Crack Repair

- 1. A low viscosity epoxy injection resin system pumped under pressure into structural cracks shall conform to ASTM C881, Type I or IV. Epoxy-resin grout shall have the ability to structurally rebond cracks, delaminations, and hollow plane conditions in concrete; shall be insensitive to the presence of water; and shall have the capability to penetrate cracks down to 5 mils in width. Materials shall have been used in similar conditions for a period of at least five (5) years. Design injection ports for epoxy-resin grout for the intended use as detailed in this section, made per the recommendation of the epoxy manufacturer. System shall meet the following criteria:
  - Tensile properties at 7 day of 3,300 psi minimum when tested in accordance with ASTM D638.
  - b. Total water absorption of 0.27 at 7 days when tested in accordance with ASTM D570.
  - c. Bond strength at 14 days of 2,000 psi when tested in accordance with ASTM C882.
- 2. Products Subject to compliance with requirements, provide one of the following:
  - a. Sika Corporation "Sikadur 35 Hi-Mod LV" with "Sikadur 31 Hi Mod Gel" for sealing cracks prior to injection grouting
  - b. Euclid Chemical Company "Dural Fast Set LV" with "Dural Fast Set Gel" for sealing cracks prior to injection grouting
- F. Reinforcing steel: Deformed bars conforming to ASTM A615, Grade 60.
- G. Anchors: Threaded stainless steel (ASTM A276, Type 304 or 316), size as indicated.

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H. Water: Potable water shall be used in cleaning concrete surfaces, producing concrete and mortars, and curing concrete.

### PART 3 - EXECUTION

### 3.1 GENERAL

- A. Coordinate installation of repairs with placement of reinforcing steel, where required.
- B. Work and schedule to be coordinated with Owner.
- C. A condition survey of the area to be repaired shall conform to ACI 201.1R and ACI 364.1R. Strength evaluation shall be in accordance with ACI 437R. Cracks shall be evaluated in accordance with ACI 224.1R. Examination and sampling procedures shall conform to ASTM C823.

### 3.2 SURFACE PREPARATION

### A. Establish Repair Boundaries

- 1. All exposed concrete is to be examined, sounded and repaired by the Contractor using a lift, scaffolding, swing stage, or other approved access method, as required.
- 2. The Contractor is advised that the Drawings and Specifications do not undertake to illustrate every location of work necessary to complete this project. The Drawings intend to convey approximate locations and quantities of work insofar as they have been determined by visual observation. The actual repair area may be less or more.
- 3. The Contractor shall locate areas of unsound, weak, or damaged concrete by sounding with a hammer and marking boundaries of these conditions for repair. The sounding will produce a dull sound in areas of delaminated concrete and a sharp ringing sound will be heard when there is sound concrete.
- 4. The Contractor shall document and submit for review markups indicating areas of repair that deviate from the Contract Documents. Full submittal requirements are described in section 1.5.A.

### B. Sequence of Work and Shoring

- 1. Removal of large areas of concrete at one time has the potential to compromise the loadcarrying capacity of the concrete structure. To ensure stability in the interim condition the Contractor shall retain a Professional Engineer, who is to prepare signed and sealed drawings, calculations, reports and/or specifications as need be, to either:
  - a. Develop a construction sequencing plan for repairs
  - b. Design temporary shoring supports as required before beginning concrete removal.

### C. Concrete Preparation

1. Remove unsound, weak or damaged concrete, Loose particles, spalling, cracked or debonded concrete shall be removed with hand tools unless otherwise noted. Perimeter of repair shall have a minimum of ½ inch in depth. Edges are to be cut perpendicular to underside surfaces; feathered edges are not permitted. Remove concrete back to sound concrete substrate by chipping or other approved methods to sound concrete substrate. Surface grinders for use in preparing concrete and metal surfaces shall be small, hand-held equipment with a slow to moderate operating RPM, using stone grinding wheels. Saw cutting equipment shall use circular diamond blades. The back of the patch shall be approximately parallel with the exposed surface of the patch.

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- 2. Equipment used to drill holes in concrete for patch anchors and other applications shall be standard handheld masonry drills, commonly used for drilling small holes in concrete and masonry, using rotary drilling mode only. Impact and rotary impact type drills are prohibited from use in patch anchor installations.
- 3. The Contractor shall take care to ensure that the existing steel is not damaged during cutting or chipping. Any damage shall be repaired at the Contractor's expense, to the satisfaction of the Engineer of Record.
- 4. Thoroughly clean removal areas of loose concrete, dust and debris. Provide fractured aggregate surface with a profile of at least 1/8 inch in accordance with ICRI CSP-5 minimum. Clean the surfaces by water blasting and manual scrubbing methods. The concrete surfaces shall be cleaned of dust, dirt, corrosion or other contamination.
- 5. The maximum depth of concrete removal shall be 4 inches. If the Contractor believes that additional depth is required, the Engineer of Record must be notified. Deeper repairs are not to be performed unless approved by the Engineer of Record.

### D. Steel Preparation

- Exposed steel reinforcement shall be free of all rust, scale, oil, paint, grease, loose mill scale, and other foreign matter, which will prevent bonding with the repair concrete. Use abrasive grit blasting or power driven brushes to clean to a white metal finish. Where corrosion has occurred due to the presence of chlorides, the steel shall be high pressure washed after mechanical cleaning.
- 2. Concrete behind bars shall be removed 1 inch minimum to allow for entire bar to be cleaned and coated, and allow for mechanical bond with patch material.
- 3. Notify Engineer of Record when the existing reinforcing steel has a section loss of 20% or greater. In these instances, supply and place additional reinforcing steel equal to at least 1.5x the area lost. Provide reinforcement lap splices per the requirements provided by EOR upon review.

### E. Formwork

1. Erect formwork as necessary to reconstruct concrete to match adjacent surfaces.

### 3.3 PATCHING REPAIR APPLICATION

### A. General

1. Repair areas less than 2 inches deep, and all overhead repairs, shall be patched using an approved trowel-applied patching mortar. Repair areas greater than 2 inches shall be patched with a self-consolidating concrete mortar as described in section 2.2.C, or with concrete as described in section 2.2.A, at the contractor's discretion.

### B. Patch Anchors

1. Surface areas to be patched, which do not have reinforcement or other metal embedment, shall be provided with patch anchors to ensure that the patch is tied to the existing concrete structure. Provide patch anchors within the excavation at a frequency of at least one patch anchor for every six (6) linear inches in all directions with a minimum of two per patch. Set rods at 45 degrees to horizontal in opposing direction. Do not set anchors closer than one (1) inch to any edge of the patch. The anchors shall be set back from the exterior face at least 1 inch.

### C. Anti-Corrosion Agent

- 1. Coat reinforcing bars with anti-corrosion agent, as soon as possible after the steel preparation, but preferably within three (3) hours of cleaning.
- 2. Follow manufacturer's instructions and apply two (2) coatings.

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### D. Repair Mortar

- 1. Prior to application dampen area to be repaired to achieve saturated surface dry (SSD) condition so that pores of concrete are filled with water.
- 2. Mix repair mortar in accordance with manufacturer's instructions. Follow time limits set by manufacturer to prevent hardening of material prior to placement. Do not mix more materials than can be used within recommended open time. Complete repair while bonding agent is still tacky.
- 3. Work a coat of the mixed material into the substrate with a stiff brush to ensure intimate contact and establish bond.
- 4. Place patching mortar by troweling toward edges of patch to force intimate contact with edge surfaces. For large patches, fill edges first and then work toward center, always troweling toward edges of patch. At fully exposed reinforcing bars, force patching mortar to fill space behind bars by compacting with trowel from sides of bars.
- 5. Apply in lifts not to exceed 1½ inches in thickness. Where multiple lifts are required, score top surface on each lift to produce a roughened substrate for the next lift. Allow preceding lift to harden before applying fresh material. Saturate surface of lift with clean water. If previous layers are over 6 hours old, mechanically prepare the substrate and dampen. See manufacturer's instructions for additional direction
- 6. Alternatively, the material may be poured or pumped into formed areas. To ensure proper filling and adhesion vibrate the material during placement or pump the repair material under pressure. Vibrate form while pouring or pumping. Pump with a variable pressure pump. Continue pumping until a 3 to 5 psi increase in normal line pressure is evident then STOP pumping. Form should not deflect. Vent to be capped when steady flow is evident, and forms stripped when appropriate.
- 7. Dispose of waste material in accordance with project standards per Division 01.

### E. Concrete Patching

- 1. Apply only to sound and clean, properly prepared surface.
- 2. Prior to application dampen area to be repaired to achieve saturated surface dry (SSD) condition so that pores of concrete are filled with water.
- 3. Place concrete to rebuild spalled or damaged areas to match the original surface profile.
- 4. Use vibrators to consolidate concrete as it is placed.
- 5. Where required place concrete by form method, designing forms to resist pumping pressure in addition to the weight of wet concrete.
- 6. Dispose of waste material in accordance with project standards per Division 01.

### 3.4 CRACK REPAIRS

### A. Preparation

- 1. Remove old caulking or grout from previously repaired cracks where it is failing. Remove loose particles from cracks. Cracks shall be cleaned, pressure-washed to remove all loose debris, followed by blowing with filtered, dry, compressed air.
- 2. Isolated hairline cracks **a maximum of** 1/16 inch **in width** shall be filled with High Molecular Weight Methylmethacrylate filler.
- 3. Cracks between 1/16 inch to a maximum of 1/4 inch in width shall be pressure injected with low viscosity epoxy grout/adhesive. For ease in product installation, contractor can route out cracks smaller than 1/4 inch to a maximum width of 1/4 inch and a minimum depth of 0.75" being careful so as to not cut existing reinforcement.
- 4. For cracks larger than 1/4 inch in width, follow patching repair application procedures previously specified in section 3.3.

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### B. Epoxy-Resin Grout

1. Mix epoxy-resin grout components in the proportions recommended by the manufacturer. The components shall be conditioned from 70-85°F for 48 hours prior to mixing. Mix the two epoxy components with a power-driven device. The polysulfide curing agent component shall be added gradually to the epoxy-resin component with constant stirring until a uniform mixture is obtained. The rate of stirring shall be such that the entrained air is at a minimum. Do not mix more materials than can be used within recommended open time.

### C. Pressure Injection of Cracks

- 1. Cracks shall be pressure-injected using a two-component epoxy system. System shall be capable of injection pressures up to a maximum 150 psi to ensure complete penetration of the crack.
- Entry points shall be established along the crack. Drill 5/8-inch diameter holes along the crack. Space holes as directed by the manufacturer, typically as far apart as the concrete thickness, with a maximum spacing of one foot on center. Set injection ports into holes as directed by manufacturer, and wherever else required depending on crack size and other conditions.
- 3. Apply an adequate surface seal to the crack or joint to prevent the escape of epoxy. Fill the crack with a 100 percent solid epoxy adhesive.
- 4. Inject the adhesive into the crack at the first entry point with sufficient pressure to advance the epoxy to the next adjacent port. The original port shall be sealed and injection moved to the port at which the epoxy appears. When sealing vertical cracks, begin injecting at the bottom of the crack and work upwards. Continue the process until each joint and crack has been injected for its entire length. Epoxy shall be allowed to cure in accordance with manufacturer's instructions. Sealing materials shall then be removed and surface finished to match adjacent existing surface.
- 5. Care shall be taken to ensure that the crack is not widened during epoxy resin injection.
- 6. If penetration of any cracks is impossible, consult the Engineer before discontinuing the injection procedure. If modification of the proposed procedure is required to fill the cracks, submit said modification in writing to the Engineer for acceptance prior to proceeding.

### 3.5 CURING

- A. Moist curing should commence immediately after finishing and continue for 48 hours. Use water based curing compound or fine mist of water.
- B. Maintain concrete and mortar to be moist-cured continuously wet for the entire curing period. If water or curing materials stain or discolor concrete and mortar surfaces which are to be permanently exposed, the concrete and mortar surfaces shall be cleaned. When wooden forms are left in place during curing, they shall be kept wet at all times. If the forms are removed before the end of the curing period, curing shall be carried out as on unformed surfaces, using suitable materials. Horizontal surfaces shall be cured by ponding, by covering with a 2-inch minimum thickness of continuously saturated sand, or by covering with waterproof paper, polyethylene sheet, polyethylene coated burlap, or saturated burlap.
- C. If a curing compound is used, Contractor to confirm with manufacturer that the selected product is compatible with patching mortar. Apply compound in a one-coat continuous operation by mechanical spraying equipment, at a uniform coverage of 200 sf per gallon. Keep surfaces coated with curing compound free of foot and vehicular traffic, and from other sources of abrasion and contamination during the curing period.

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D. Protect and cure epoxy adhesives in accordance with the manufacturer's recommendations. The adjacent surfaces and ambient conditions shall be maintained within the manufacturer's recommendations.

### 3.6 FINISHING AND TEXTURING

- A. Provide hand tools used for finishing and texturing concrete and mortar. Equipment used for finishing and texturing concrete and mortar surfaces shall be a type commonly used in the concrete construction and repair industry for that application. Finish and texture subject to approval from Contracting Officer and Architect. At Owner's direction finish with a broom for a slightly rough surface or a trowel for a smooth surface, to be determined based on mock-up.
- B. Concrete and mortar finishes and color shall match the finish and color of the existing adjacent concrete. Accomplish finishing at the time of concrete placement or immediately after formwork removal. The finishing and texturing shall be accomplished in such a way as to help conceal bond lines between the patch and adjacent surfaces. The texturing shall replicate all surface details, including tooling and machine marks.
- A. Provide a paint after concrete repairs are completed, as specified in Division 09 specifications.

#### 1.2 PROTECTION AND CLEANING

- A. Protect surfaces of the structure, and surfaces adjacent to the repairs from damage which may result from the removal, cleaning and patching operations.
- B. Leave finished work and work area in a neat, clean condition without evidence of spillovers onto adjacent areas.
- C. Protect repairs from freezing, rainfall and wind prior to final set. Given the site conditions and environmental requirements herein, the patches should be largely protected from freezing and rain. In windy weather, repair areas shall be covered with burlap for a minimum of 3 hours after patch placement. To prevent from freezing cover with insulating material.
- D. No sooner than 72 hours after completion of the curing period, exposed surfaces of concrete shall be washed down with water applied with a soft bristle brush, then rinsed with clean water. Discolorations which cannot be removed by these procedures, will be considered defective work. Perform cleaning work when temperature and humidity conditions are such that surfaces dry rapidly. Protect adjacent surfaces from damage during cleaning operations.

### 1.3 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to sample materials and perform tests as follows:
  - 1. Compressive Strength Concrete and mortar shall have a compressive strength at 28 days, which matches the present compressive strength of concrete in the structure. Provide a minimum of three samples from the mock-up, and three samples for each 500 square feet of subsequent repair area.
    - a. Repair Mortar Mold test cubes of patching mortar in accordance with ASTM C109.
    - Concrete Patching Strength test specimens for acceptance tests shall be molded and cured in accordance with ASTM C31. Cylinders shall be tested in accordance with ASTM C39.

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- c. Low Strength When strength of patches is considered potentially deficient, obtain cores and test them in accordance with ASTM C42. All investigations, testing, load tests, and correction of deficiencies shall be performed, and approved by the Owner, at the expense of the Contractor.
- 2. Air Content & Shrinkage Tests for total air content shall be made on fresh samples of the concrete and mortar. Perform tests onsite, on samples taken at the location of placement. Determine air content in accordance with ASTM C231. Determine testing for shrinkage in accordance with ASTM C1107.
- 3. Direct Tension Bond Test Perform in-situ bond test in accordance with ASTM C1583, following recommendations in ICRI 210.3. One test will be performed at mock-up and two subsequent tests for each 2000 square feet of repair work.

### 1.4 FINAL INSPECTION

- A. The patched areas shall be sounded with a hammer 7 days after concrete placement to test for soundness, delamination and structural integrity. A hollow sound indicates areas likely have not properly bonded to substrate concrete. Defective areas noted by the architect shall be repaired by removing and replacing the patch at Contractor's expense.
- B. Following completion of the work, architect to inspect the structure for damage, staining, and other distresses. The patches shall be inspected for cracking, crazing, staining and other defects. Inspect the finish, texture, color and shade, and surface tolerances of the patches to verify that all requirements have been met. Repair all surfaces exhibiting defects, at Contractor's expense.

**END OF SECTION** 

**BULLETIN No: 019** 

SUBJECT: Mechanical Clarifications (Radiant Ceiling Panel Coordination)

⊠Owner: UConn/ Michael Lombardi

Architect: GCA/ Geoffrey Meier, MG/ Jill Wendorff

Consultant: BVH/ Alan Vanags

□ Construction Manager: Whiting Turner/ Kevin Seidensticker

PROJECT: Gant Renovations - STEM, Phase 1 Date: February 8, 2018

University of Connecticut

TO: By email to:
The Whiting-Turner Contracting Company

195 Church Street, 10th Floor New Haven, Connecticut 06510

ATTN: Kevin Seidensticker CONTRACT FOR: Gant Phase 1

#### ORIGIN:

As part of the shop drawing coordination process a number of ceiling radiant panels sizes have been coordinated and adjusted. Similarly, several humidifier and electric unit heater performance criteria were revised.

### SCOPE:

### Part 1 - Architectural (See Descriptions and Attachments)

- 1. Drawing Revisions
  - a. Description:
    - i. A-811, Update to Ceiling radiant panel sizes in Men's Tlt (SRR1A, SRR2A), Women's Tlt (SRR1B, SRR2B), Women's ADA and Unisex (SRR1C, SRR2C), Lobby (SL1A, SL2A), Copy/Mailroom (S121), Post Doc Offices (S222, S223), and Chair Office (S120C). Light fixture and ceiling grid in Chair Office (S120C) and Post Doc Office (S223) adjusted as shown on drawing. Additional dimensions provided for clarity.

**UCONN PROJECT NO:** 

ARCHITECT'S PROJECT NO:

901803

9920

- Update to Light Fixtures tags (AWO3 and ADO3E) per response to RFI 29 and RFI 30.
- ii. A-812, Update to Ceiling radiant panel sizes in Men's Tlt (SRR3A, SRR4A), Women's Tlt (SRR3B, SRR4B), Men's ADA (SRR4C), Lobby (SL3A, SL4A), and Post Doc Offices (S322, S323, S422, S423). Additional dimensions provided for clarity.
  - Update to Light Fixture tags (AW03 and AD03E) per response to RFI 29 and RFI 30.
- iii. A-813, Update to Ceiling radiant panel sizes in Corridor (PC1B) and Corridor (PC1C). Diffusers and sprinklers coordinated with MEP drawings for P104, P106, P107.
- iv. A-924, New details added for 1) Section at First Floor Chair Office and 2) Detail at Curtainwall Head in the Plaza Building.

### Part 2 - Mechanical (See Descriptions & Attachments)

- Drawing Revisions
  - a. Description:
    - i. M-201A-S: Reflected change in width of identified ceiling radiant panel in conjunction with schedule on M-800-S and as noted in recent Ceiling Heating Panel submittal.
    - ii. M-201B-S: Modified piping runouts to several radiators in coordination with Architect and as noted in recent Radiator submittal.
    - iii. M-202A-S: Reflected change in width of identified ceiling radiant panels in conjunction with schedule on M-800-S and as noted in recent Ceiling Heating Panel submittal.
    - iv. M-203A-S: Reflected change in width of identified ceiling radiant panels in conjunction with schedule on M-800-S and as noted in recent Ceiling Heating Panel submittal.
    - v. M-204A-S: Reflected change in width of identified ceiling radiant panels in conjunction with schedule on M-800-S and as noted in recent Ceiling Heating Panel submittal.
    - vi. M-800-S:

Gant-STEM Phase 1, UCONN Project No 901803

**BULLETIN No: 018** 

SUBJECT: Card Reader Scope Reduction

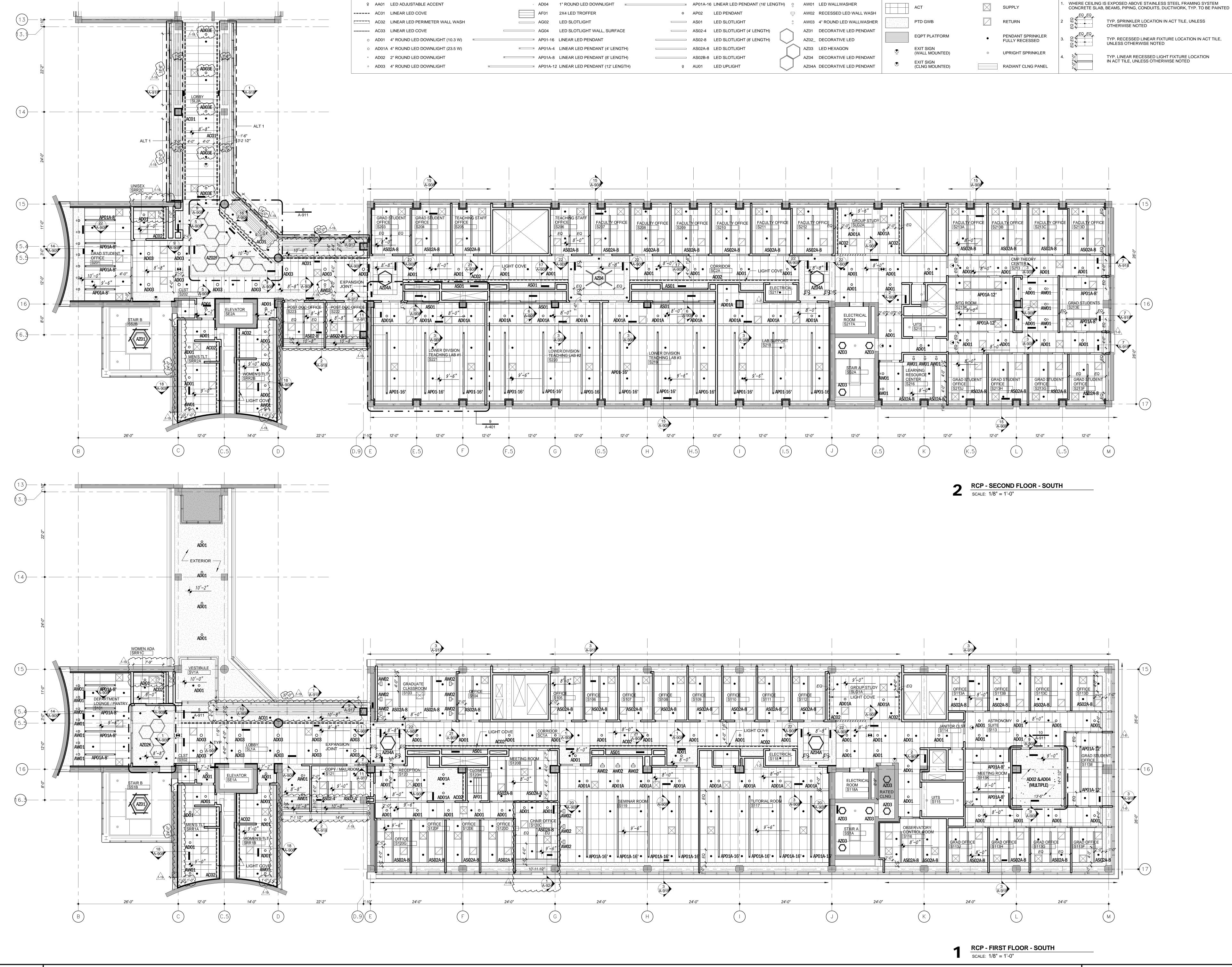
- 1. Ceiling Radiant Panel Schedule: Changed identified ceiling radiant panel widths as noted in recent Ceiling Heating Panel submittal. Most changes are a reduction in width.
- 2. Air Conditioning Unit Schedule: Clarified model number for heat pump unit type
- vii. M-801-S:
  - 1. Humidifier Schedule: Revised L1 and L3 performance for 2500 CFM from 2100 CFM; Clarified EHUM model numbers to match KW rating; Clarified humidifier leaving RH % conditions for all humidifiers.
- b. Attachments
  - i. M-201A-S, M-201B-S, M-202A-S, M-203A-S, M-204A-S, M-800-S, M-801-S

### Part 3 - Electrical (See Descriptions & Attachments)

- 1. Drawing Revisions
  - a. Description:
    - i. E-800-S, Increased size of EHUM-SG-L1 and EHUM-SG-L3 from 6kW to 8kW. Revised sw/fuse size in mechanical equipment circuiting schedule to accommodate the load increase.
  - b. Attachments:
    - i. E-800-S

End of Bulletin 019

Issued by:
Geoffrey Meier
Goody, Clancy & Associates, Inc.



LICCININ UNIVERSITY OF CONNECTICUT

#901803

GOODYCLANCY

Mitchell | Giurgola Architects, LLP

ARCHITECT:

Mitchell | Giurgola Architects, LLP

630 Ninth Avenue, Suite 711

New York, New York 10036

212 663 4000

ARCHITECT:

Goody Clancy

420 Boylston St.

Boston, MA 02116

617 262 2760

STRUCTURAL ENGINEER:
Robert Silman Associates
111 Devonshire St
Boston, Massachsetts
617-695-6700

MEP/FP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

SITE | CIVIL ENGINEER:

BVH Integrated Services

50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

LIGHTING SUSTAINABILITY CONSULTANT:
Atelier Ten
195 Church Street, 10th Floor
New Haven, Connecticut 06510
203-777-1400

LANDSC APE ARCHITECT:
Towers | Golde, LLC
85 Willow Street
New Haven, Connecticut 06511
203-773-1153 x322

CODE CONSULTANT:

P.O. Box 216

603-526-6190

Philip R. Sherman, P.E.

444 Wilmot Center Road

Elkins, New Hampshire 03233

AUDIO-VISUAL & ACOUSTICAL CONSULTANT:
Acentech Inc. (East Coast Office)
33 Moulton Street
Cambridge, Massachusetts 02138
617-499-8019

SPECIFICATIONS:
Wilspec, LLC
Lynnfield Medical Office Building
15 Post Office Square
Lynnfield, Massachusetts 01940
784-598-6789

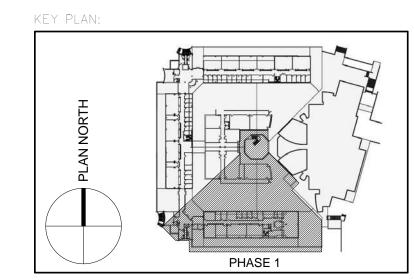
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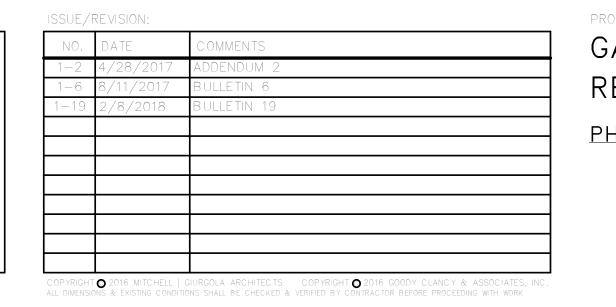
Whiting—Turner Construction Co. 123 Church Street, 10th Floor

New Haven, Connecticut 06510

203-777-6783

LIGHT FIXTURE LEGEND





GANT BUILDING
RENOVATIONS — STEM
PHASE 1

RCP LEGEND

GENERAL RCP NOTES

PRAWING TITLE:

REFLECTED CEILING PLAN

— FIRST & SECOND FLOOR

— SOUTH

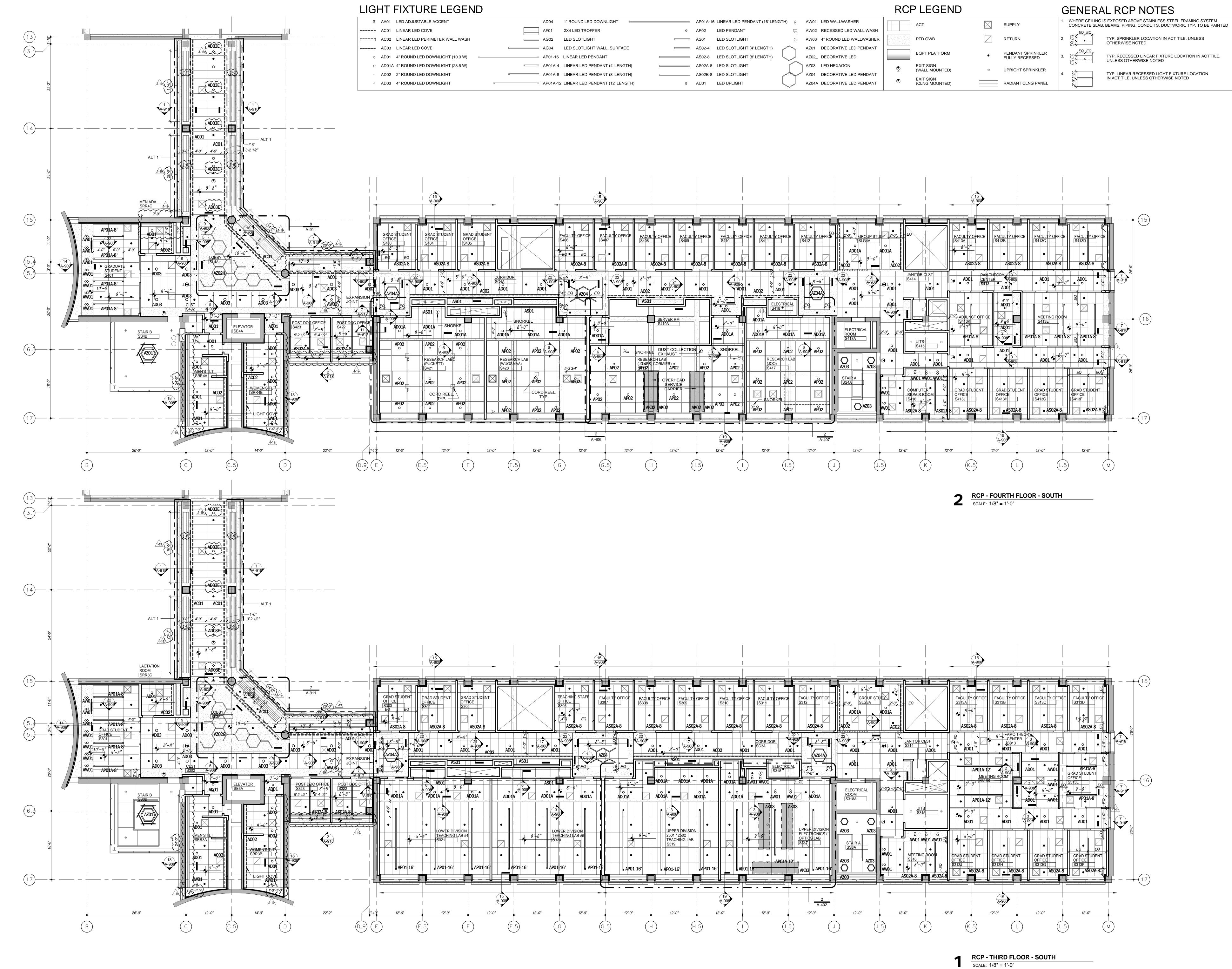
PROJECT NO: 152400

DATE: 04/03/2017

PHASE: 100% CONSTRUCTION DOCUMENTS SCALE: 1/8" = 1'-0

DRAWN BY:

CHECKED BY:





GOODYCLANCY

Mitchell | Giurgola Architects, LLP

ARCHITECT:

Mitchell | Giurgola Architects, LLP

630 Ninth Avenue, Suite 711

New York, New York 10036
212 663 4000

ARCHITECT:

Goody Clancy

420 Boylston St.

Boston, MA 02116

617 262 2760

STRUCTURAL ENGINEER:
Robert Silman Associates
111 Devonshire St
Boston, Massachsetts
617-695-6700

MEP/FP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

SITE | CIVIL ENGINEER:

BVH Integrated Services

50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

LIGHTING SUSTAINABILITY CONSULTANT:
Atelier Ten
195 Church Street, 10th Floor
New Haven, Connecticut 06510
203-777-1400

LANDSC APE ARCHITECT:
Towers | Golde, LLC
85 Willow Street
New Haven, Connecticut 06511
203-773-1153 x322

CODE CONSULTANT:

P.O. Box 216

603-526-6190

Philip R. Sherman, P.E.

444 Wilmot Center Road

Elkins, New Hampshire 03233

AUDIO-VISUAL & ACOUSTICAL CONSULTANT:
Acentech Inc. (East Coast Office)
33 Moulton Street
Cambridge, Massachusetts 02138
617-499-8019

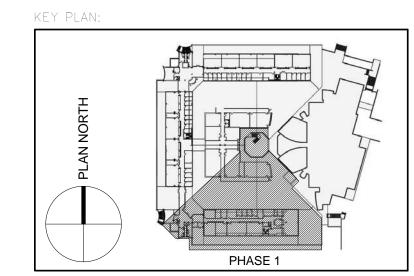
SPECIFICATIONS:
Wilspec, LLC
Lynnfield Medical Office Building
15 Post Office Square
Lynnfield, Massachusetts 01940
784-598-6789

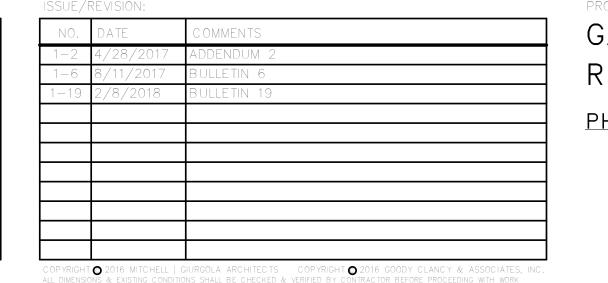
CONSTRUCTION MANAGER:

Whiting—Turner Construction Co. 123 Church Street, 10th Floor

New Haven, Connecticut 06510

203-777-6783





GANT BUILDING
RENOVATIONS — STEM
PHASE 1

PRAWING TITLE:

REFLECTED CEILING PLAN

— THIRD & FOURTH FLOOR

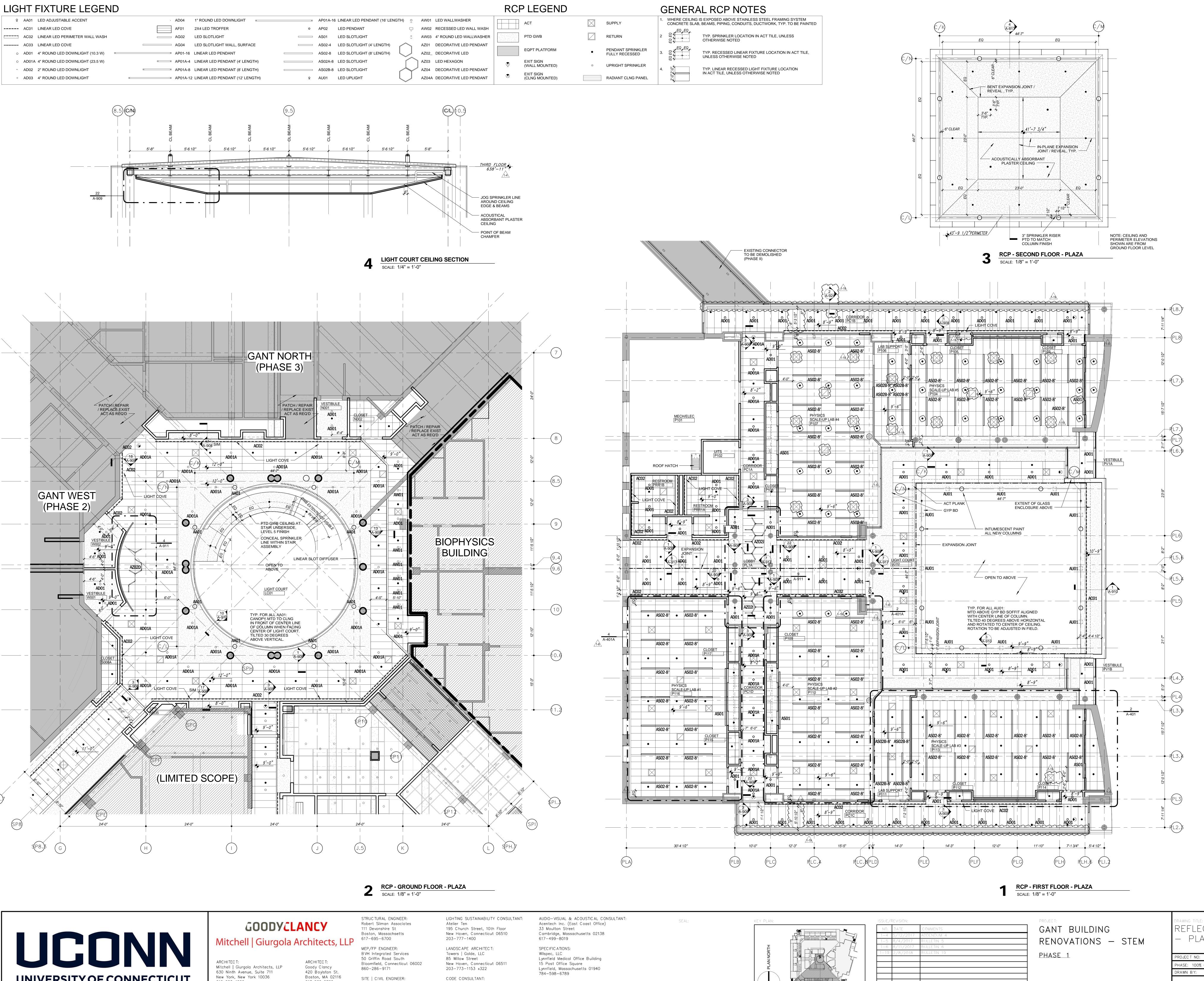
— SOUTH

PROJECT NO: 152400

PHASE: 100% CONSTRUCTION DOCUMENTS SCALE: 1/8" = 1'-0

DRAWN BY:

CHECKED BY:





#901803

212 663 4000 617 262 2760 CODE CONSULTANT: Philip R. Sherman, P.E. P.O. Box 216 444 Wilmot Center Road

Elkins, New Hampshire 03233

603-526-6190

CONSTRUCTION MANAGER:

203-777-6783

Whiting-Turner Construction Co.

123 Church Street, 10th Floor

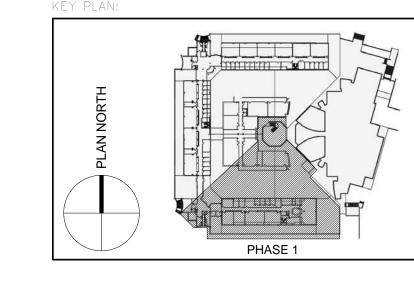
New Haven, Connecticut 06510

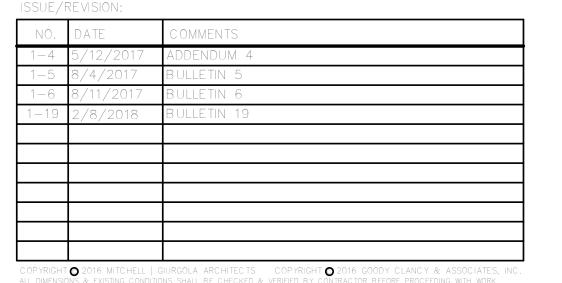
BVH Integrated Services

50 Griffin Road South

860-286-9171

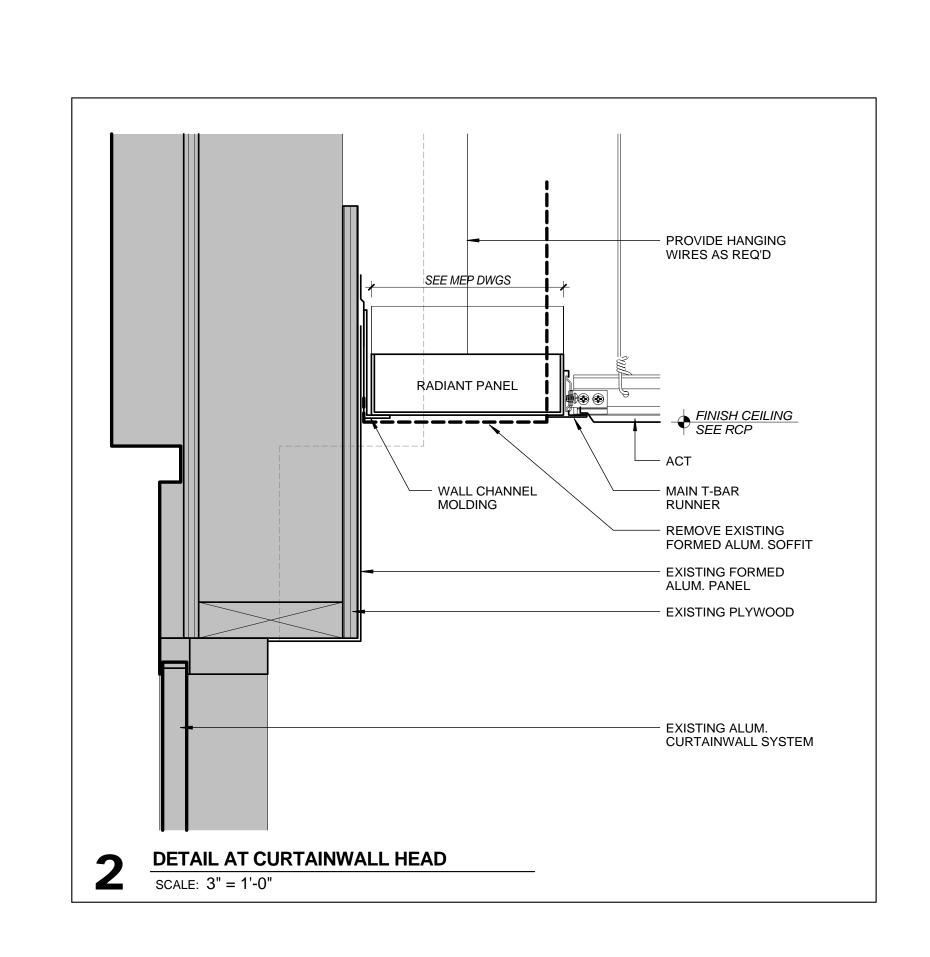
Bloomfield, Connecticut 06002

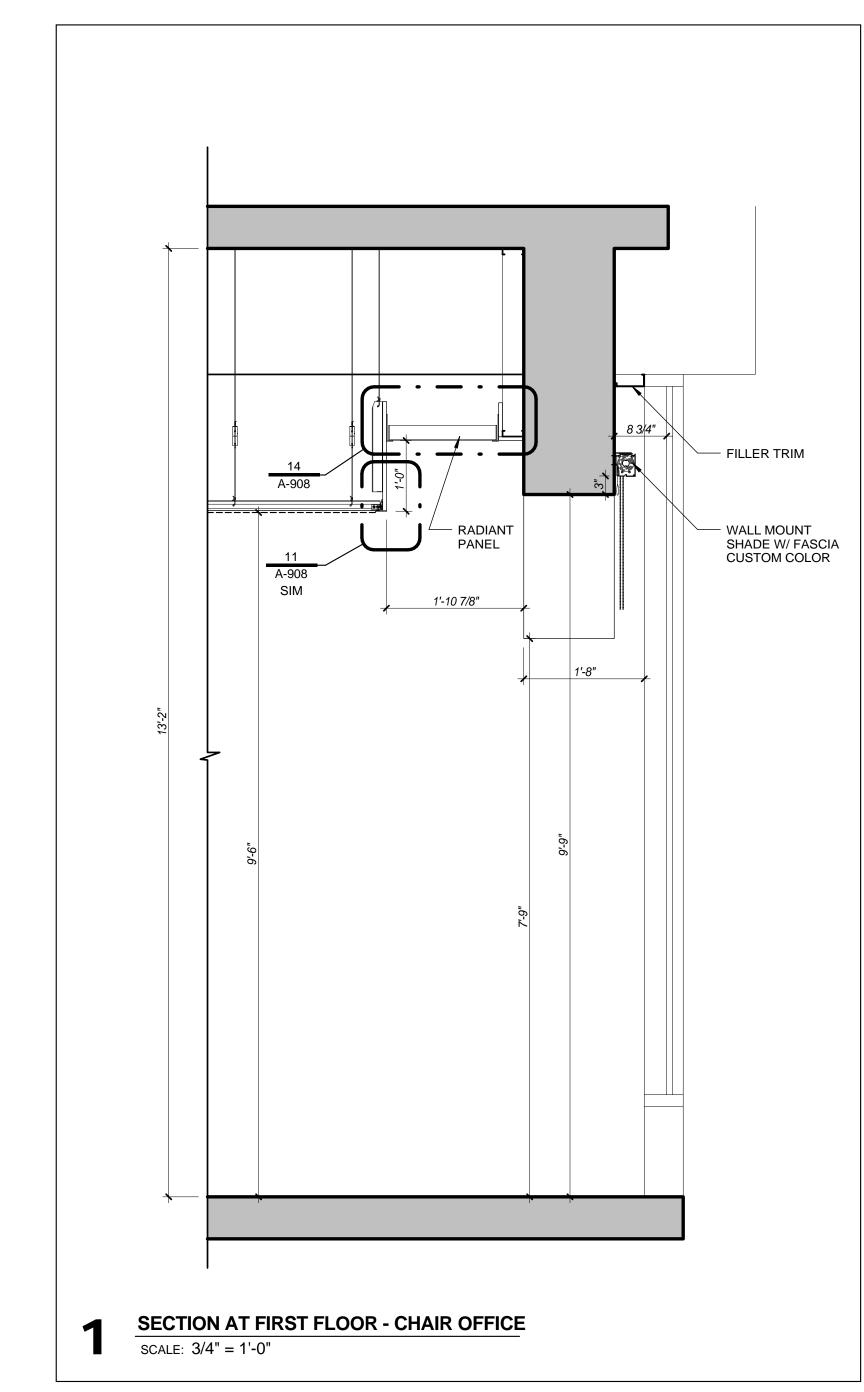




REFLECTED CEILING PLAN - PLAZA BUILDING

PROJECT NO: **152400** DATE: **04/03/2017** PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: As indicated CHECKED BY:







GOODYCLANCY

Mitchell | Giurgola Architects, LLP

ARCHITECT:
Mitchell | Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, New York 10036
212 663 4000

ARCHITECT: Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760 STRUCTURAL ENGINEER: Robert Silman Associates 111 Devonshire St Boston, Massachsetts 617-695-6700

860-286-9171

617-695-6700

MEP/FP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

50 Griffin Road South

Bloomfield, Connecticut 06002

860-286-9171

SITE | CIVIL ENGINEER:

BVH Integrated Services

50 Griffin Road South

Bloomfield, Connecticut 06002

SITE | CODE CONSULTANT:

Philip R. Sherman, P.E.

50 Griffin Road South

Bloomfield, Connecticut 06002

444 Wilmot Center Road

LIGHTING SUSTAINABILITY CONSULTANT:
Atelier Ten
195 Church Street, 10th Floor
New Haven, Connecticut 06510
203-777-1400

LANDSCAPE ARCHITECT:
Towers | Golde, LLC

LANDSCAPE ARCHITECT:
Towers | Golde, LLC
85 Willow Street
New Haven, Connecticut 06511
203-773-1153 x322

Elkins, New Hampshire 03233 603-526-6190 AUDIO-VISUAL & ACOUSTICAL CONSULTANT:
Acentech Inc. (East Coast Office)
33 Moulton Street
Cambridge, Massachusetts 02138
617-499-8019

SPECIFICATIONS:
Wilspec, LLC
Lynnfield Medical Office Building
15 Post Office Square
Lynnfield, Massachusetts 01940
784-598-6789

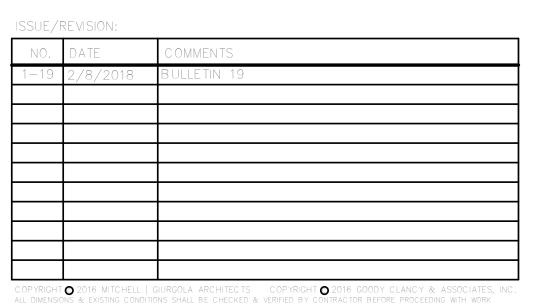
CONSTRUCTION MANAGER:

Whiting—Turner Construction Co.

123 Church Street, 10th Floor New Haven, Connecticut 06510 203-777-6783 SEAL:

HLAN NORTH

HASE 1

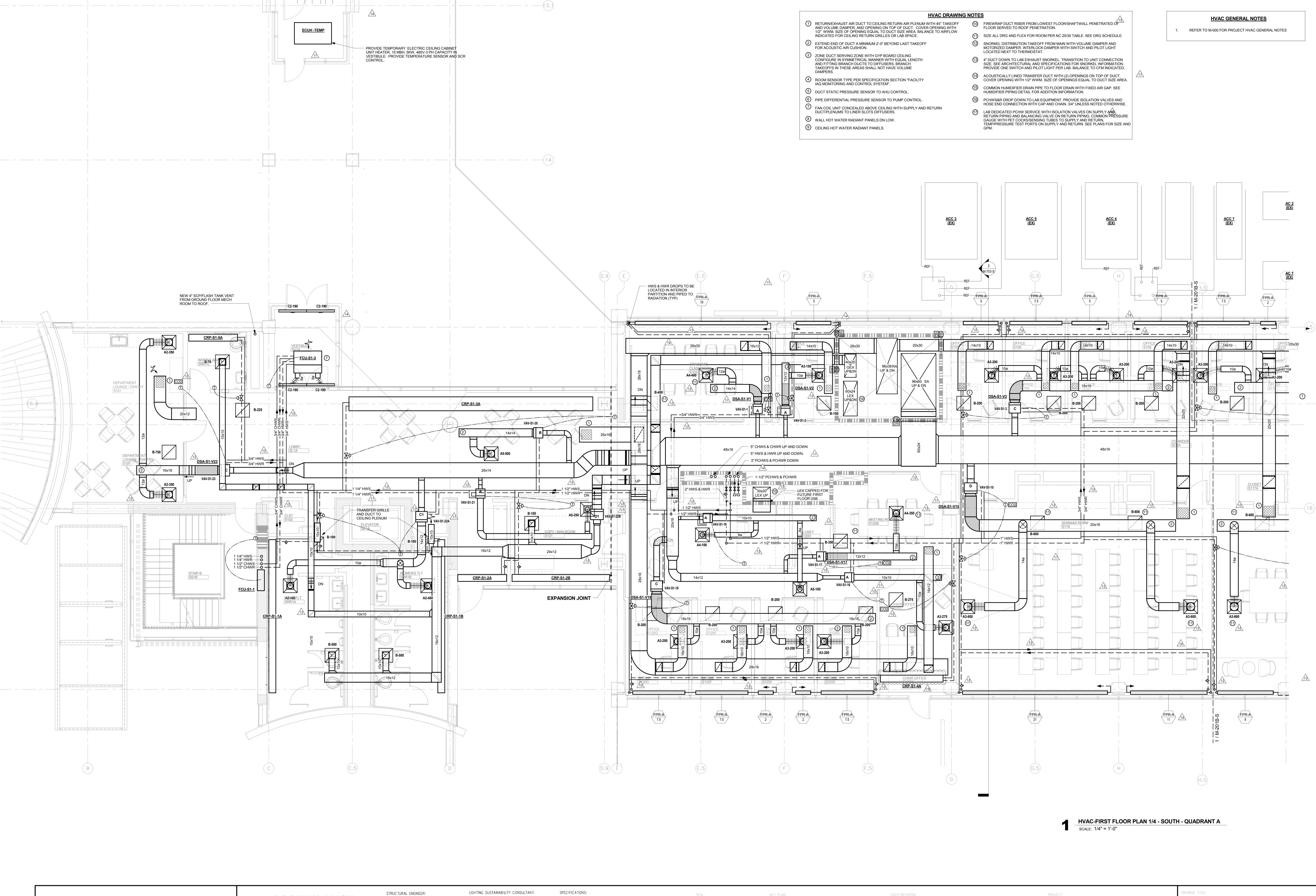


GANT BUILDING
RENOVATIONS — STEM
PHASE 1

PROJECT NO: 152400

PHASE: 100% CONSTRUCTION DOCUMENTS SCALE: As indicated DRAWN BY:

CHECKED BY:





GOODYCLANCY Mitchell | Giurgola Architects, LLP

ARCHITECT:
Mitchell | Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, New York 10036
212 663 4000

ARCHITECT:
Goody Clancy
420 Boylston St.
Boston, MA 02116
617 262 2760

111 Devonshire St
Boston, Massachsetts
617-695-6700

MEP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

SITE | CIVIL ENGINEER:
BVH Integrated Services

ROBERT SILMAN ASSOCIATES

50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

ATELIER TEN

203-777-1400

85 WILLOW ST

195 Church Street, 10th Floor

New Haven, Connecticut 06510

LANDSCAPE ARCHITECT

TOWERS|GOLDE LLC

NEW HAVEN CT 06511

203-773-1153 x322

CODE CONSULTANT

ELKINS, NH 03233

603-526-6190

P.O. BOX216

Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD

TANT:

SPECIFIC ATIONS:
WILSPEC LLC
LYNNFIELD MEDIC AL OFFICE BUILDING
15 POST OFFICE SQUARE
LYNNFIELD, MA 01940
784-598-6789

CONSTRUCTION MANAGER
WHITING-TURNER CONSTRUCTION CO.
123 CHURCH STREE, 10TH FLOOR
NEW HAVEN, CT 06510
203-777-6783

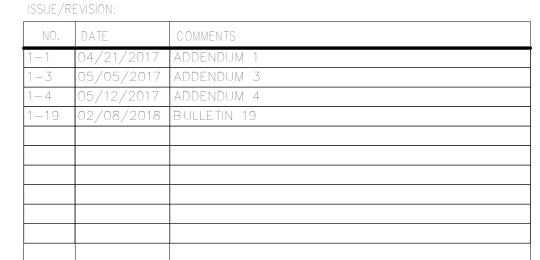
SEAL:

REY PLAN:

HINDRING

HINDRING

REY PLAN:



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GANT BUILDING
RENOVATIONS—STEM
PHASE 1

HVAC FIRST FLOOR PART PLAN — SOUTH
— QUADRANT A

PROJECT NO: 9920

DATE: 04/03/2017

PHASE: 100% CONSTRUCTION DOCUMENTS SCALE: 1/4" = 1'-0"

DRAWN BY: KLB

CHECKED BY: AV

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FPR-A 8

**HVAC GENERAL NOTES** 

1. REFER TO M-000 FOR PROJECT HVAC GENERAL NOTES

### **HVAC DRAWING NOTES**

- 1 RETURN/EXHAUST AIR DUCT TO CEILING RETURN AIR PLENUM WITH 45° TAKEOFF AND VOLUME DAMPER, AND OPENING ON TOP OF DUCT. COVER OPENING WITH 1/2" WWM. SIZE OF OPENING EQUAL TO DUCT SIZE AREA. BALANCE TO AIRFLOW INDICATED FOR CEILING RETURN GRILLES OR LAB SPACE.
- 2) EXTEND END OF DUCT A MINIMUM 2'-0" BEYOND LAST TAKEOFF FOR ACOUSTIC AIR CUSHION.
- (3) ZONE DUCT SERVING ZONE WITH GYP BOARD CEILING CONFIGURE IN SYMMETRICAL MANNER WITH EQUAL LENGTH AND FITTING BRANCH DUCTS TO DIFFUSERS. BRANCH TAKEOFFS IN THESE AREAS SHALL NOT HAVE VOLUME
- ROOM SENSOR TYPE PER SPECIFICATION SECTION "FACILITY IAQ MONITORING AND CONTROL SYSTEM".
- (5) DUCT STATIC PRESSURE SENSOR TO AHU CONTROL. 6) PIPE DIFFERENTIAL PRESSURE SENSOR TO PUMP CONTROL.
- 7 FAN COIL UNIT CONCEALED ABOVE CEILING WITH SUPPLY AND RETURN DUCT/PLENUMS TO LINER SLOTS DIFFUSERS.
- 8 WALL HOT WATER RADIANT PANELS DN LOW.
- (9) CEILING HOT WATER RADIANT PANELS.
- 10 FIREWRAP DUCT RISER FROM LOWEST FLOOR/SHAFTWALL
- PENETRATED OF FLOOR SERVED TO ROOF PENETRATION. SIZE ALL DRG AND FLEX FOR ROOM PER NC 25/30 TABLE. SEE DRG SCHEDULE.
- (2) SNORKEL DISTRIBUTION TAKEOFF FROM MAIN WITH VOLUME
- DAMPER AND MOTORIZED DAMPER. INTERLOCK DAMPER WITH SWITCH AND PILOT LIGHT LOCATED NEXT TO THERMOSTAT. (13) 4" DUCT DOWN TO LAB EXHAUST SNORKEL. TRANSITION TO UNIT
- CONNECTION SIZE. SEE ARCHITECTURAL AND SPECIFICATIONS FOR SNORKEL INFORMATION. PROVIDE ONE SWITCH AND PILOT LIGHT PER LAB. BALANCE TO CFM INDICATED.
- 4 ACOUSTICALLY LINED TRANSFER DUCT WITH (2) OPENINGS ON TOP OF DUCT. COVER OPENING WITH 1/2" WWM. SIZE OF OPENINGS EQUAL TO DUCT SIZE AREA.
- (15) COMMON HUMIDIFIER DRAIN PIPE TO FLOOR DRAIN WITH FIXED AIR GAP. SEE HUMIDIFIER PIPING DETAIL FOR ADDITION INFORMATION.
- PCHWS&R DROP DOWN TO LAB EQUIPMENT. PROVIDE ISOLATION VALVES AND HOSE END CONNECTION WITH CAP AND CHAIN. 3/4" UNLESS NOTED OTHERWISE. (17) LAB DEDICATED PCHW SERVICE WITH ISOLATION VALVES ON
- SUPPLY AND RETURN PIPING AND BALANCING VALVE ON RETURN PIPING, COMMON PRESSURE GAUGE WITH PET COCKS/SENSING TUBES TO SUPPLY AND RETURN, TEMP/PRESSURE TEST PORTS ON SUPPLY AND RETURN. SEE PLANS FOR SIZE AND GPM.
- (18) 3" (UNLESS NOTED OTHERWISE) ROUND SS WELDED DUCT WITH VD OR CVPC SOLVENT WELDED PIPE WITH SHUTOFF FROM PRIMARY LEX DUCT MAIN TO LAB VACUUM PUMP RACK STATION FOR MULTIPLE VACUUM PUMP DISCHARGES. PROVIDE (6) 3/4" MULTIPLE HOSE BARB CONNECTION POINTS @ 4' AFF. PROVIDE 1/2" DRAIN PIPE WITH NC SHUTOFF FROM BASE OF DROP TO FLOOR DRAIN.
  COORDINATE EXACT DROP LOCATION WITH VACUUM PUMPS
  LOCATION IN THE FIELD. FLEX TUBING FROM PUMPS TO
  CONNECTORS BY USERS.

HVAC-FIRST FLOOR PLAN 1/4 - SOUTH - QUADRANT B

SCALE: 1/4" = 1'-0"

FPR-A

FPR-A 7.5



GOODYCLANCY Mitchell | Giurgola Architects, LLP

FPR-A

ARCHITEC T: Mitchell | Giurgola Architects, LLP Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760

ROBERT SILMAN ASSOCIATES 111 Devonshire St Boston, Massachsetts 617-695-6700 MEP ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002 860-286-9171 SITE | CIVIL ENGINEER: BVH Integrated Services

50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

STRUCTURAL ENGINEER:

PIPE RADIATORS IN SERIES.
ROUTE INTERCONNECTING

OF ARCHITECT.

S&R PIPING BETWEEN PANELS
AROUND COLUMN PER DIRECTION

LIGHTING SUSTAINABILITY CONSULTANT: ATELIER TEN 195 Church Street, 10th Floor New Haven, Connecticut 06510 203-777-1400 LANDSCAPE ARCHITECT TOWERS|GOLDE LLC 85 WILLOW ST NEW HAVEN CT 06511 203-773-1153 x322 CODE CONSULTANT Philip.R. SHERMAN, P.E.

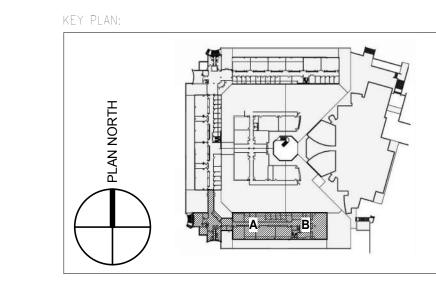
P.O. BOX216

444 WILMOT CENTER ROAD

ELKINS, NH 03233

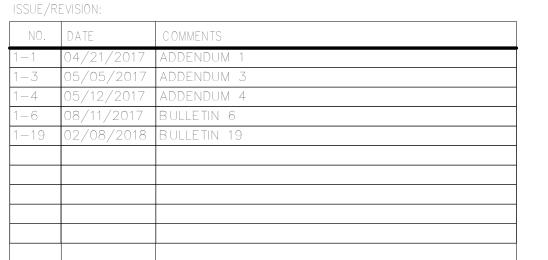
603-526-6190

SPECIFIC ATIONS: WILSPEC LLC LYNNFIELD MEDICAL OFFICE BUILDING 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 CONSTRUCTION MANAGER WHITING-TURNER CONSTRUCTION CO. 123 CHURCH STREE, 10TH FLOOR NEW HAVEN, CT 06510 203-777-6783



- HWS & HWR DROPS TO

BE LOCATED IN INTERIOR PARTITION AND PIPED TO RADIATION (TYP)



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GANT BUILDING RENOVATIONS-STEM PHASE 1

DIRECTION OF ARCHITECT.

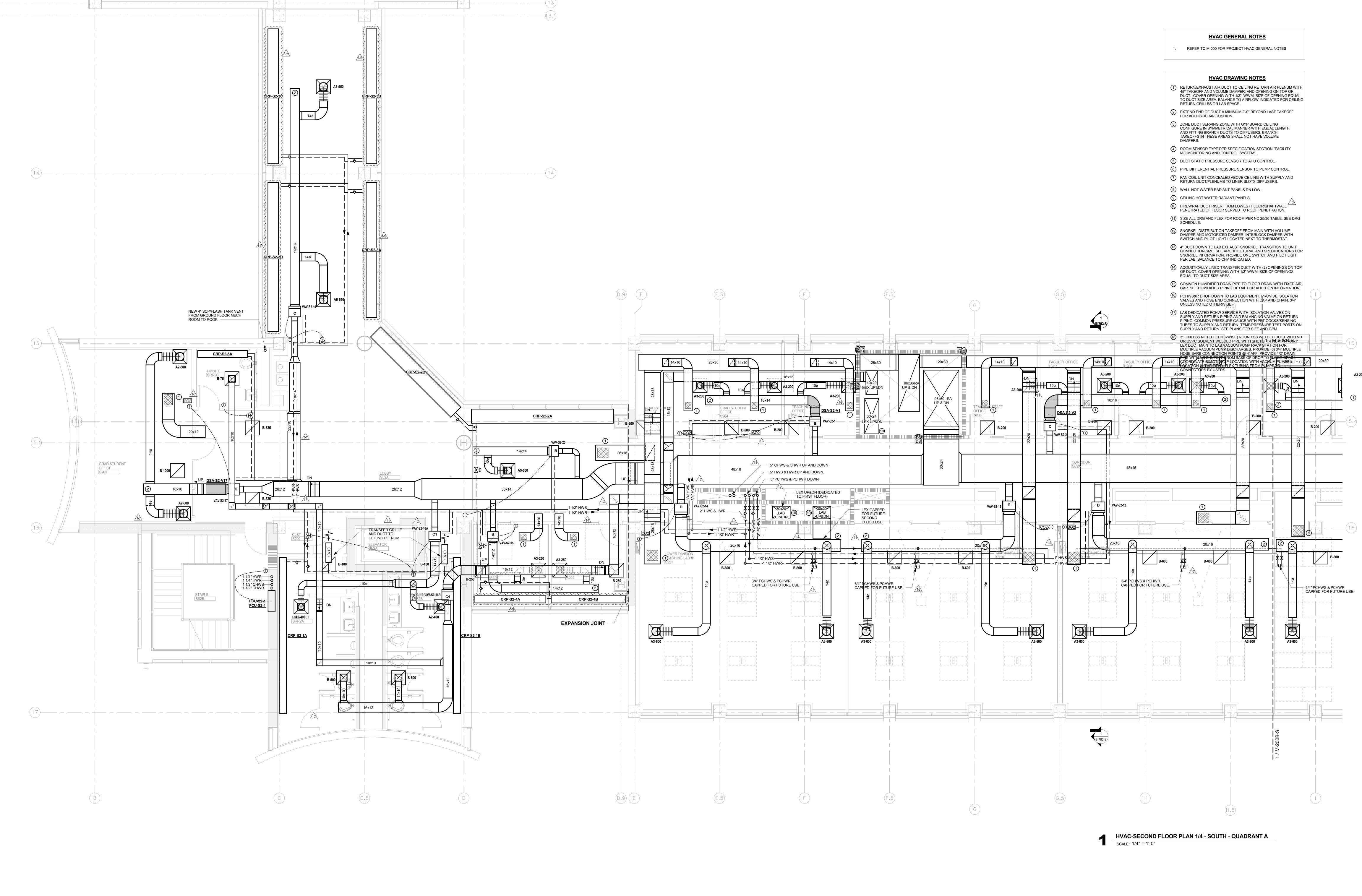
INDICATES END OF PANELS "IN-SERIES" (TYP)

> HVAC FIRST FLOOR PART PLAN - SOUTH — QUADRANT B DATE: 04/03/2017

PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: 1/4" = 1'-0"

CHECKED BY: AV DRAWN BY: KLB

PROJECT NO: 9920





GOODYCLANCY Mitchell | Giurgola Architects, LLP 111 Devonshire St Boston, Massachsetts 617-695-6700

STRUCTURAL ENGINEER:

BVH Integrated Services

Bloomfield, Connecticut 06002

Bloomfield, Connecticut 06002

50 Griffin Road South

SITE | CIVIL ENGINEER:

50 Griffin Road South

BVH Integrated Services

MEP ENGINEER:

860-286-9171

860-286-9171

ROBERT SILMAN ASSOCIATES

ARC HITEC T: ARCHITECT: Mitchell | Giurgola Architects, LLP Goody Clancy 630 Ninth Avenue, Suite 711 420 Boylston St. New York, New York 10036 Boston, MA 02116 212 663 4000 617 262 2760

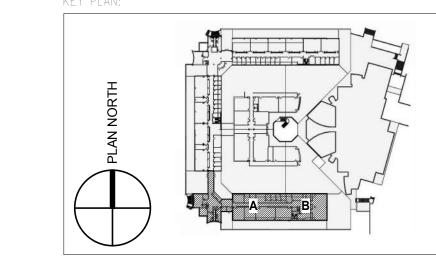
ATELIER TEN 195 Church Street, 10th Floor New Haven, Connecticut 06510 203-777-1400 LANDSCAPE ARCHITECT TOWERS|GOLDE LLC 85 WILLOW ST NEW HAVEN CT 06511 203-773-1153 x322 CODE CONSULTANT Philip.R. SHERMAN, P.E. P.O. BOX216 444 WILMOT CENTER ROAD

ELKINS, NH 03233

603-526-6190

LIGHTING SUSTAINABILITY CONSULTANT:

SPECIFICATIONS: WILSPEC LLC LYNNFIELD MEDICAL OFFICE BUILDING 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 CONSTRUCTION MANAGER WHITING-TURNER CONSTRUCTION CO. 123 CHURCH STREE, 10TH FLOOR NEW HAVEN, CT 06510 203-777-6783



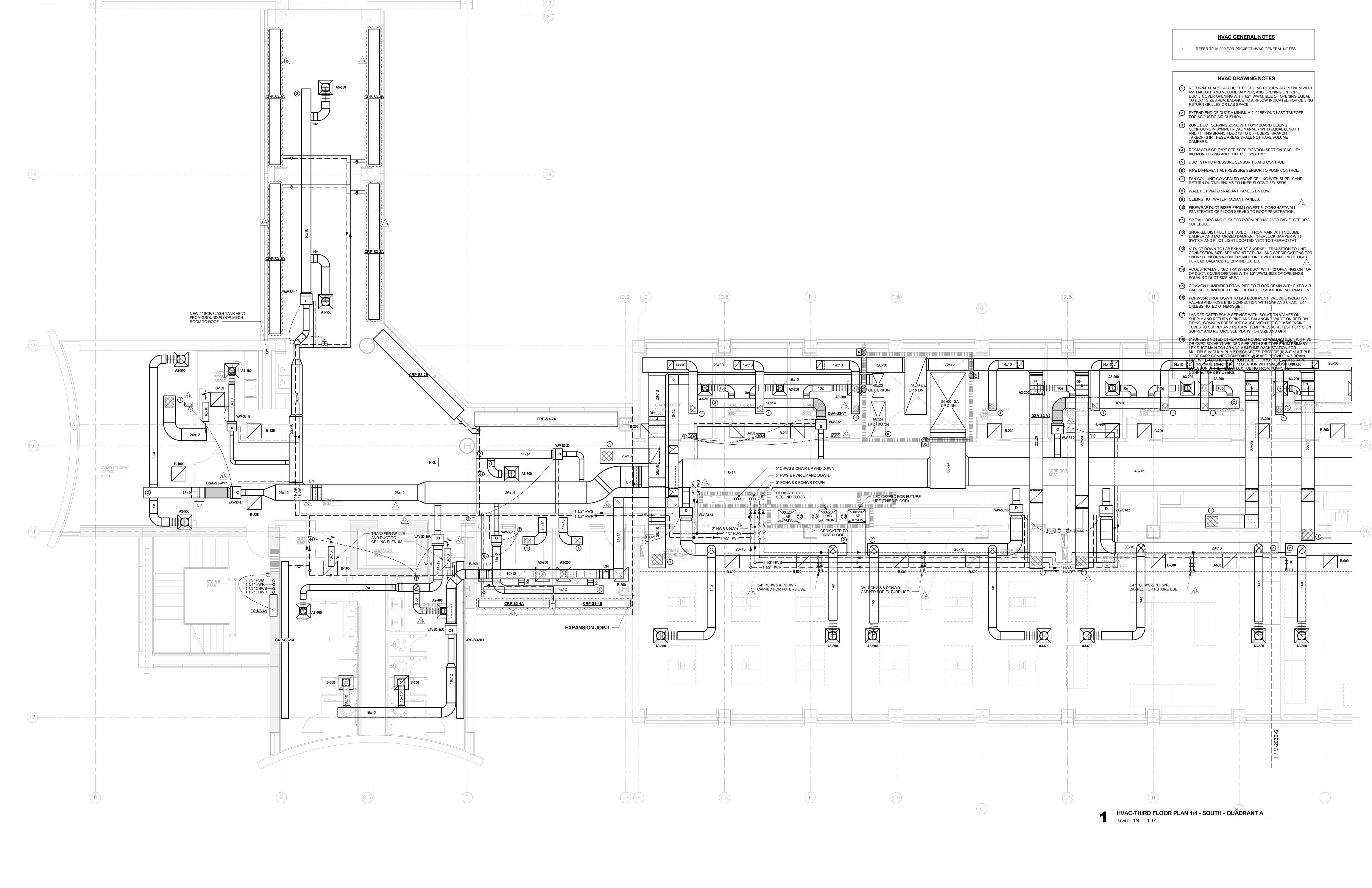
GANT BUILDING RENOVATIONS-STEM PHASE 1

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HVAC SECOND FLOOR PART PLAN — SOUTH - QUADRANT A

DATE: 04/03/2017 PROJECT NO: 9920 PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: 1/4" = 1'-0" CHECKED BY: AV

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GOODYCLANCY Boston, Massachsetts 617-695-6700 Mitchell | Giurgola Architects, LLP

ARC HITEC T: ARCHITECT: Mitchell | Giurgola Architects, LLP Goody Clancy 630 Ninth Avenue, Suite 711 420 Boylston St. New York, New York 10036 Boston, MA 02116 212 663 4000 617 262 2760

ATELIER TEN ROBERT SILMAN ASSOCIATES 195 Church Street, 10th Floor New Haven, Connecticut 06510 203-777-1400 LANDSCAPE ARCHITECT TOWERS|GOLDE LLC 85 WILLOW ST NEW HAVEN CT 06511 Bloomfield, Connecticut 06002 203-773-1153 x322 CODE CONSULTANT Philip.R. SHERMAN, P.E. P.O. BOX216

444 WILMOT CENTER ROAD

ELKINS, NH 03233

603-526-6190

STRUCTURAL ENGINEER:

BVH Integrated Services

50 Griffin Road South

SITE | CIVIL ENGINEER:

50 Griffin Road South

BVH Integrated Services

Bloomfield, Connecticut 06002

111 Devonshire St

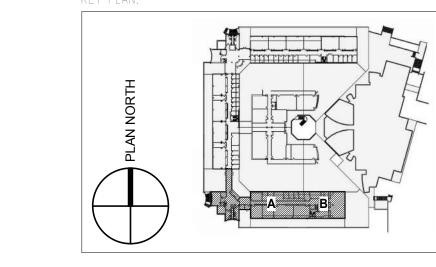
MEP ENGINEER:

860-286-9171

860-286-9171

LIGHTING SUSTAINABILITY CONSULTANT:

SPECIFICATIONS: WILSPEC LLC LYNNFIELD MEDICAL OFFICE BUILDING 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 CONSTRUCTION MANAGER WHITING-TURNER CONSTRUCTION CO. 123 CHURCH STREE, 10TH FLOOR NEW HAVEN, CT 06510 203-777-6783



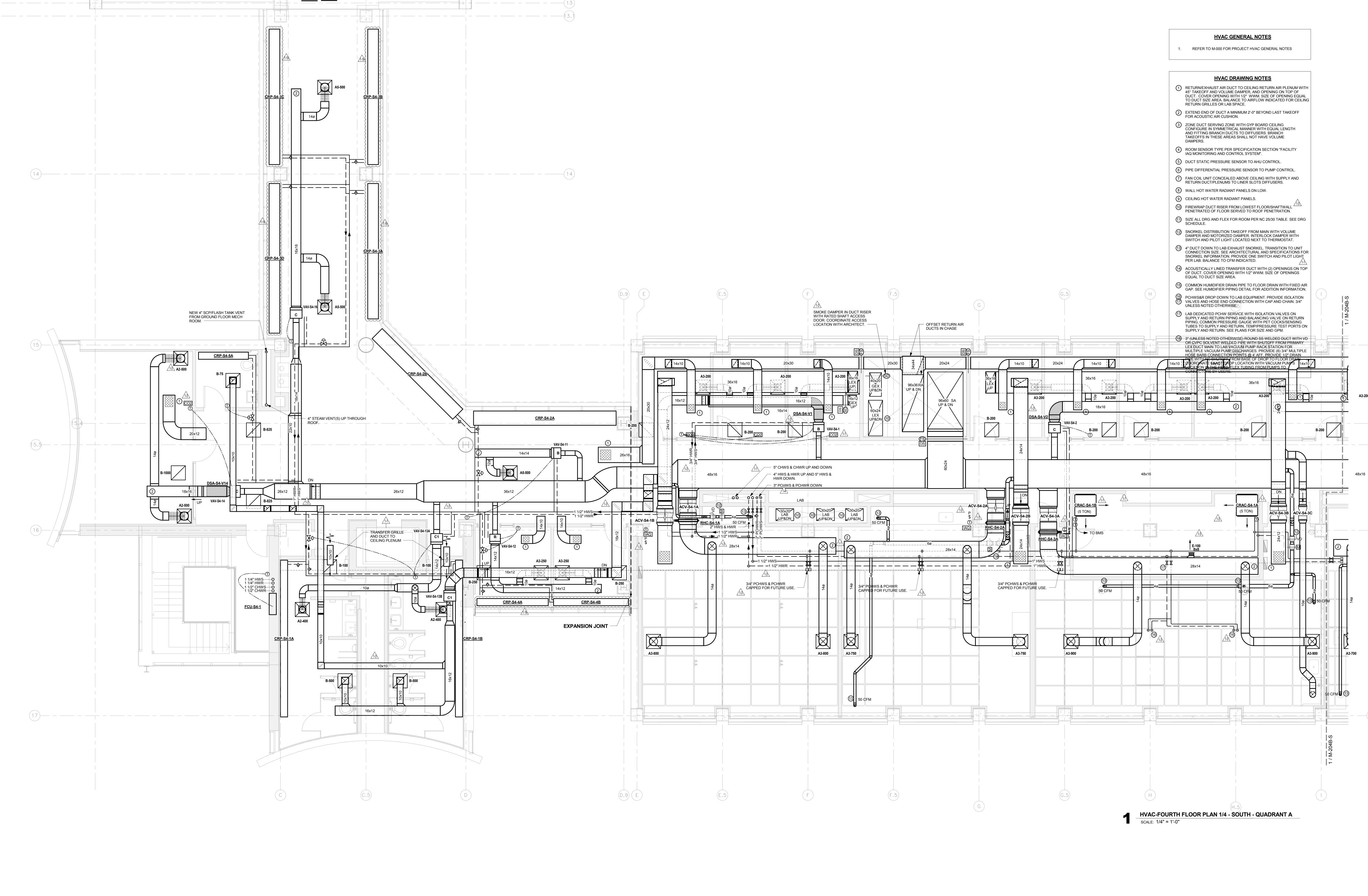
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GANT BUILDING RENOVATIONS-STEM HVAC THIRD FLOOR PART PLAN — SOUTH QUADRANT A

DATE: 04/03/2017 PROJECT NO: 9920 PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: 1/4" = 1'-0" CHECKED BY: AV DRAWN BY: KLB

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GOODYCLANCY Mitchell | Giurgola Architects, LLP Boston, Massachsetts 617-695-6700

ARC HITEC T: ARCHITEC T: Mitchell | Giurgola Architects, LLP Goody Clancy 630 Ninth Avenue, Suite 711 420 Boylston St. New York, New York 10036 Boston, MA 02116 212 663 4000 617 262 2760

MEP ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002 860-286-9171 SITE | CIVIL ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002

860-286-9171

STRUCTURAL ENGINEER:

111 Devonshire St

ROBERT SILMAN ASSOCIATES

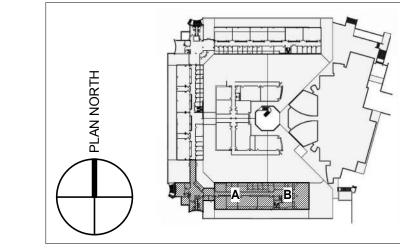
SPECIFICATIONS: WILSPEC LLC LIGHTING SUSTAINABILITY CONSULTANT: ATELIER TEN 195 Church Street, 10th Floor New Haven, Connecticut 06510 15 POST OFFICE SQUARE 203-777-1400 LYNNFIELD, MA 01940 784-598-6789 LANDSCAPE ARCHITECT TOWERS|GOLDE LLC CONSTRUCTION MANAGER 85 WILLOW ST NEW HAVEN CT 06511 203-773-1153 x322 NEW HAVEN, CT 06510 203-777-6783 CODE CONSULTANT Philip.R. SHERMAN, P.E. P.O. BOX216

444 WILMOT CENTER ROAD

ELKINS, NH 03233

603-526-6190





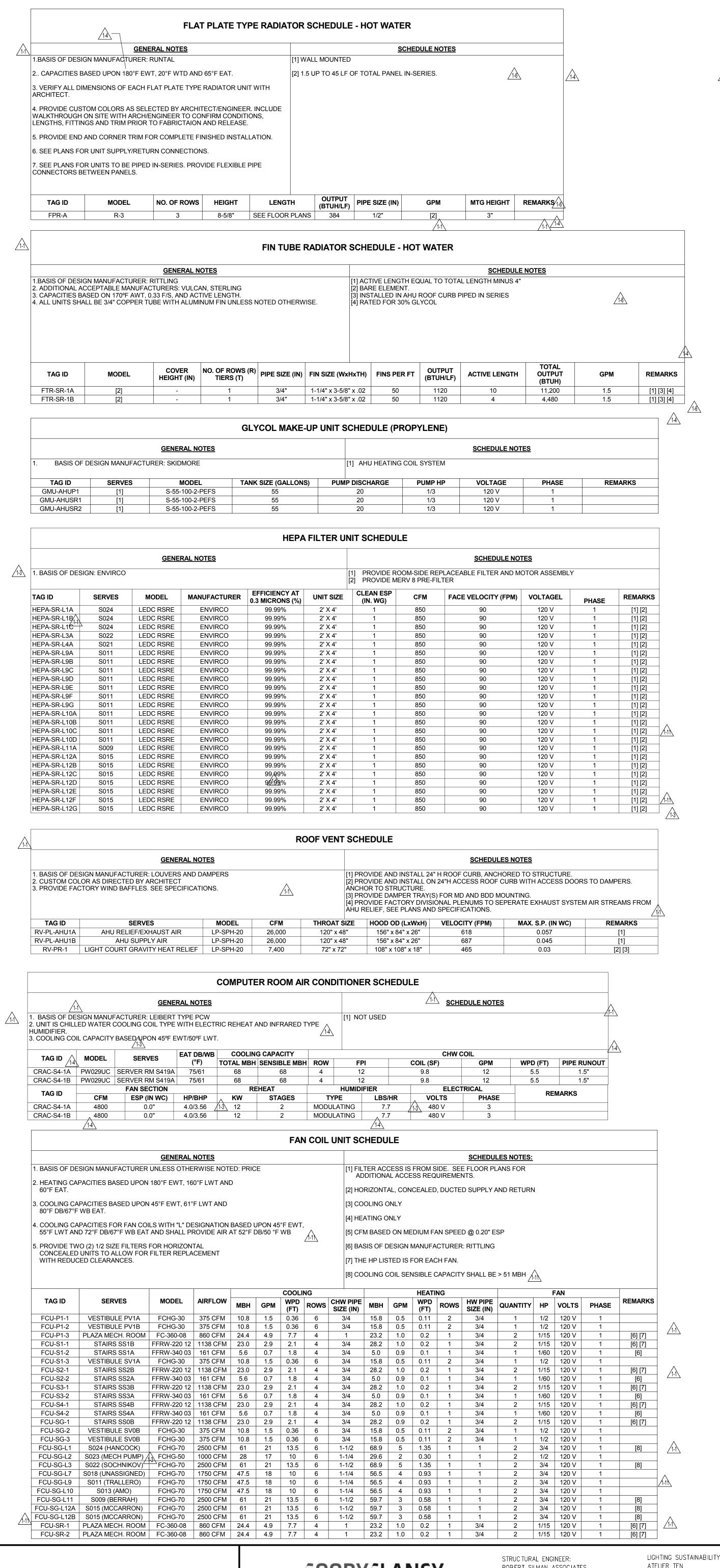
GANT BUILDING RENOVATIONS-STEM PHASE 1

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HVAC FOURTH FLOOR PART PLAN — SOUTH QUADRANT A

DATE: 04/03/2017 PROJECT NO: 9920 PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: 1/4" = 1'-0" CHECKED BY: AV DRAWN BY: KLB

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		<u>GENE</u> F	RAL NOTES					SCHEDUL	E NOTES		
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TAG ID CU-SR-1	DUCTLESS		MODEL PKA-A24KA7	}	COOLING (BT 24000	· / / / / / / / / / / / / / / / / / / /	<b>CFM</b> 635/705/755	HP 56 (W)	VOLTAGE 208 V	POLES 1	SERVI ELEVAT
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TAG ID I-ACUSR-1	MODEL PUZ-A24NH	A7 }	<b>TEMP (°F) HI/LO</b> 95	2 TON	10.0		8 8		TAGE 8 V	POLES 2	SERVES ELEVATOR
	1-19							,	·		
			CE	EILING RADIAN	T PANEL S	CHEDULE - H	OT WATER	2			
		GENERAL	NOTES					SCHEDULE NOTE	<u>s</u>		
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CA	PACITIES BASED	UPON 180°F EWT	160°F LWT,}170°F	MEAN WATER TEM	P. SU	BMITTAL. PROVID	E FIELD INST.	ALLED INTERCONNEC ALL TO WALL LENGTH	TING PIPING BE	ETWEEN NO	
			VITH MAXIMUM 100 AND CIRCUITS FOR	L.F. OF TUBE PER		STRUCTIONS.					1-1
$\wedge$		CEED GPM RATIN			[2] 0.5	GPM UP TO 20L	F OF PANEL, 1	GPM 21-40LF, 1.5 GPN	M 41LF AND ABO	OVE	<u> </u>
1-1\ PR	OVIDE RADIANT I TS PIPED IN SEF	PANEL SPLIT AND RIES. SEE PLANS I	INTERCONNECTINFOR LOCATIONS.	G FIELD PIPING AT							
PR	OVIDE MOUNTING	G TYPE SUITABLE	FOR CONSTRUCTI	ON INVOLVED AND							
		ARCHITECT. SEE IN SHOP DRAWIN		EILING PLANS AND		^					
		,		1-19		1-1	1-1				
AG ID P-PL-1	MODEL HEF-2	STYLE CEILING	WIDTH 8"	{ LENGTH [1] }	BTUH/LF 161	TOTAL BTUH	<b>GPM [2]</b> 1.0	1.0	NUMBER C		REMARKS
P-PL-2	HEF-2	CEILING	8"	48' - 0"	161		1.0	1.0	2		
P-PL-3 P-PL-4	HEF-2 HEF-2	CEILING CEILING	8" 8"	48' - 0" 48' - 0"	161 161		1.0 1.0	1.0 1.0	2		
P-S1-1A P-S1-1B	HEF-2 HEF-2	CEILING CEILING	12" 12"	22' - 0" 22' - 0"	212 212		0.5 0.5	0.20 0.20	2		
P-S1-2A	HEF-2	CEILING	12"	7' - 0"	212		0.5	0.10	2		
P-S1-2B P-S1-3A	HEF-2 HEF-2	CEILING CEILING	12"	14' - 0" 35' - 0"	212		0.5 1.5	0.10 2.4	2		
P-S1-4A P-S1-5A	HEF-2 HEF-2	CEILING CEILING	{ 18" <u>}</u> ∕1-19\ 12"	9' - 0" 7' - 0"	288 <u>/1-19</u> 212		0.5 0.5	0.10 0.10	2		
P-S2-1A	HEF-2	CEILING	12" 12"	22' - 0"	212		0.5	0.20	2	!	
P-S2-1B P-S2-2A	HEF-2 HEF-2	CEILING CEILING	24"	22' - 0" 20' - 0"	212 389		0.5 1.0	0.20 0.65	2		
P-S2-2B P-S2-3A	HEF-2 HEF-2	CEILING CEILING	24"	16' - 0" 19' - 0"	389		1.0 1.0	0.55 0.65	4		
P-S2-3B	HEF-2	CEILING	{ 18" }	19' - 0"	288		1.0	0.65	4	,	
P-S2-3C P-S2-3D	HEF-2 HEF-2	CEILING CEILING	18" <del>\</del> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	19' - 0" 21' - 0"	288 <del>}</del> /1-19\ 288 <del>}</del>		1.0	0.65 0.65	4		
P-S2-4A P-S2-4B	HEF-2 HEF-2	CEILING CEILING	12" } 12" }	10' - 0" 10' - 6"	212 } 212 }		0.5 0.5	0.1 0.1	3		
P-S2-5A	HEF-2	CEILING	12"	7' - 0"	212		0.5	0.10	2		
P-S3-1A P-S3-1B	HEF-2 HEF-2	CEILING CEILING	12" 12"	22' - 0" 22' - 0"	212 212		0.5 0.5	0.20 0.20	2		
P-S3-2A P-S3-2B	HEF-2 HEF-2	CEILING CEILING	24" 24"	20' - 0" 16' - 0"	389 389		1.0 1.0	0.65 0.55	4		
P-S3-3A	HEF-2	CEILING	} 18" {	19' - 0"	<b>288 288</b>		1.0	0.65	4	,	
P-S3-3B P-S3-3C	HEF-2 HEF-2	CEILING CEILING	{ 18" } } 18" } 1-19	19' - 0" 19' - 0"	288 } 1-19\		1.0	0.65 0.65	4		
P-S3-3D P-S3-4A	HEF-2 HEF-2	CEILING CEILING	{ 18" } { 12" }	21' - 0" 10' - 0"	288 } 212 }		1.0 0.5	0.65 0.1	4		
P-S3-4B	HEF-2	CEILING	{ 12" }	10' - 6"	{ 212 }		0.5	0.1	3	}	
P-S4-1A P-S4-1B	HEF-2 HEF-2	CEILING CEILING	12"	22' - 0" 22' - 0"	212 212		0.5 0.5	0.20 0.20	2		
P-S4-2A P-S4-2B	HEF-2 HEF-2	CEILING CEILING	24" 24"	20' - 0" 16' - 0"	389 389		1.0 1.0	0.65 0.55	4		
P-S4-3A	HEF-2	CEILING	24"	19' - 0"	389		1.0	0.65	4		
P-S4-3B P-S4-3C	HEF-2 HEF-2	CEILING CEILING	{ 18" } { 18" }	19' - 0" 19' - 0"	288 } 288 }		1.0	0.65 0.65	4		
P-S4-3D P-S4-4A	HEF-2 HEF-2	CEILING CEILING	18" }	21' - 0" 10' - 0"	288 3/1-19		1.0 0.5	0.65 0.1	4		
P-S4-4B	HEF-2	CEILING	<b>12"</b>	10' - 6"	212 }		0.5	0.1	3	}	
P-S4-5A P-SG-1A	HEF-2 HEF-2	CEILING CEILING	12" 12"	7' - 0" 22' - 0"	212 212		0.5 0.5	0.10 0.20	2		
P-SG-1B	HEF-2	CEILING	12"	22' - 0"	212		0.5	0.20	2		
								1-1			
								<u>/ 1-1\</u>	<b>.</b>		
					EXHAL	JST FAN					
		CENE	RAI NOTES					еспери	I E NOTES		
ASIS OF F	ESIGN MANUFA		RAL NOTES  INDICATED OTHER	RWISE: COOK		[1] EXHAUST	FAN CONTROI	SCHEDU TYPE REFERENCED.	SEE HVAC CON	NTROL DRAV	WINGS.
	D BE ECM TYPE,					[2] IN-LINE CE					
TAG ID		CATION M	ODEL TYPE	E DRIV	E		WC) FAN R	PM MO		VFC	UNIT CONT
EF-P1-1		NU	IMBER INLINI			) CFM 0.4		BHP HP 1	<b>VOLTS PH</b> 120 V 1	NO	
	,		- 1	, 220	1	, 0.1	,		<u> </u>	,	1

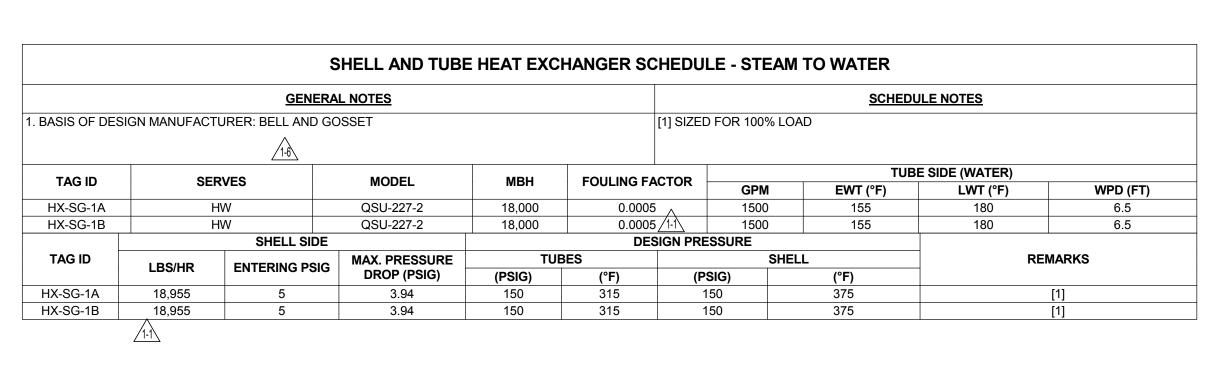


				PLATE	HEAT EXCHA	ANGEF	R SCHED	ULE			
			<b>GENERAL NOTES</b>						SCHEDULE NO	OTES .	
-	1. BASIS OF DESI	IGN MANUFACTURE	R: BELL & GOSSETT		[	1] CHILL	.ED WATER	TO CHILLED WA	ATER (AHRI RATED	))	
	DI ATEEDAME -	TO DE ALIDI DATED	(EOD NON OLYGOL AD	DI IOATIONO ONILVO	-	· -	TED TO	200/ 013/001 110	` 	, IDI DATED)	
	2. PLATEFRAME	TO BE AHRI RATED	(FOR NON-GLYCOL AP	PLICATIONS ONLY)	Į.	2] HOT V	WATER TO	30% GLYCOL HC	OT WATER (NON AF	HRI RATED)	
	B. UNIT TO BE CO	OUNTERFLOW DESIG	ON CONFIGURATION.								
									HOT SII	DE	
$\backslash \downarrow$	TAG ID	SERVES	MODI	EL MBH	FOULING FACTO	OR -	GPM	EWT (°F)	LWT (°F)	MAX WPD (FT)	PIPE RUNOUT SIZE (IN)
_	PHX-AHUP1	AHU HTG CO	OIL P47	500	0		24	180	140	10	2
Ī	PHX-AHUSR1	AHU HTG CO	DIL P47	1600	0		90	180	140	10	3
Ī	PHX-AHUSR2	AHU HTG CO	DIL P47	3000	0		160	180	140	10	4
Ī	PHX-SG-2A	BLDG CHV	V AP18	8 16,800	0		2400	59	45	10	12
Ī	PHX-SG-2B	BLDG CHV	V AP18	8 16,800	0		2400	59	45	10	12
Ī	PHX-SG-3A	LAB PROCESS	CHW P62	3000	0		600	55	45	10	8
	PHX-SG-3B	LAB PROCESS	CHW P62	3000	0		600	<sup>,</sup> 55	45	10	8 ^
Ī	TAG ID					COLD	SIDE	1-1			1-4
$\setminus$	IAGID	GPM	EWT (°F)	LWT (°F)	MAX WPD	(FT)	PIPE RUI	NOUT SIZE (IN)	WORKING PRES	SURE	REMARKS
	PHX-AHUP1	30	135	175	10			2	150		[2]
	PHX-AHUSR1	90	135	<sub>^</sub> 175	10	^		3	150		[2]
	PHX-AHUSR2	160	135	/1-1 175	10	/1-1		4	150		[2]
	PHX-SG-2A	2400	42	58	10			12	150		[1]
	PHX-SG-2B	2400	42	58	10			12	150		[1]
	PHX-SG-3A	500	42	58	10			8	150		[1]
	PHX-SG-3B	500 .	42	58	10			8	150		[1]

		PRESSU	RE POWERED STE	AM CONDENSA	ATE PUMP WITH REC	EIVER	SCHEDULE		
		GENERAL NOTE	<u>:S</u>				SCHEDULE NOTES		
	ESIGN MANUFACT		SEE FLOW DIAGRAM FO	Pi R QUANTITY AND RI [2] [3]	SUPPLY (1) RECIEVER WI ROVIDE INTERCONNECTING ECEIVER AND EACH PUMP   MAIN SERVICE/HEATING I   DOMESTIC WATER HEATE ULTIPLE INDIVIDUAL SWH L	3 PIPING CHAMBE HW SYS ERS. PRO	AND VALVES (SHUTO ER PER MANUFACTUR FEM	FF/STRAINER/CI ER RECOMMENI	HECK) BETWEEN DATIONS.
				DECICN CARACITY	V DECEIVED CARACITY		PRESSURE PO	WERED PUMP C	HAMBER
TAG ID	SERVES	TYPE	MODEL NO. SIZE	DESIGN CAPACITY (LBS/HR)	Y RECEIVER CAPACITY (GALS)	QTY	STATIC BACK PRESSURE (PSIG)	FILL HEAD (FT)	MOTIVE STEA PRESS. (PSIC
SCP-SG-1	[2]	TRIPLEX [1]	FPS-14	18,000	120	3	30	2'	40
SCP-SG-2	[3]	DUPLEX [1]	FPS-14	7,500	50	2	30	2'	40

				HYDR	ONIC PUMP	SCHEDU	JLE					
		GENERAL	NOTES						SCHEDULE NO	TES		
1. BASIS OF D	ESIGN MANUFACTU	RER: BELL AND (	GOSSETT		[1]	PUMP SHA	LL BE PRO	VIDED WITH	I ELECTRONICALL	Y COMMUTATED	MOTOR.	
2. ALL PUMPS	SELECTED AT 1750	RPM UNLESS O	THERWISE NOTED.		[2]	WET ROTO	)R					
					-	•						
					[3]	CLOSED C	OUPLED					
					[4]	DOUBLE S	UCTION SP	LIT CASE				
					[6]	STAINLESS	S STEEL EIL	TED				
					[5]	OTAINLLOC	JOILLEIIL	ILN				
					<u> </u>	PUMP SELI	ECTION BA	SED ON 30%	% GLYCOL SOLUT	ION		
					<u>/1-1</u>	END SUCT	ION					/
					-				'BASED ON 2 PUN			_
					B0	OTH CONDI	TIONS.					
			1		BC	TH CONDI	TIONS.	MO	TOP			DEMA
TAG ID	SERVES	TYPE	MODEL	GPM	FT OF HEAD				TOR VOLTAGE	PHASE	VFC	REMA S
				<b>GPM</b> 30		RPM 3550	BHP	MO HP 1	VOLTAGE	PHASE	- VFC	S
TAG ID P-AHUP1A P-AHUP1B	SERVES  AHU HTG COIL  AHU HTG COIL	INLINE [2]	MODEL  ECOCIRC XL 65-130  ECOCIRC XL 65-130		FT OF HEAD	RPM		HP		<b>PHASE</b> 1 1		[1] [2]
P-AHUP1A	AHU HTG COIL	INLINE [2] INLINE [2]	ECOCIRC XL 65-130	30	FT OF HEAD	<b>RPM</b> 3550	ВНР	<b>HP</b> 1	VOLTAGE 208 V	1	NO	[1] [2] [1] [2]
P-AHUP1A P-AHUP1B	AHU HTG COIL AHU HTG COIL	INLINE [2]	ECOCIRC XL 65-130 ECOCIRC XL 65-130	30 30	<b>FT OF HEAD</b> 50 50	<b>RPM</b> 3550 3550	BHP -	<b>HP</b> 1 1	208 V 208 V	1 1	NO NO	[1] [2] [1] [2] [3] [
P-AHUP1A P-AHUP1B P-AHUSR1A	AHU HTG COIL AHU HTG COIL AHU HTG COIL	INLINE [2] INLINE [2] INLINE [3]	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80	30 30 90	50 50 50	<b>RPM</b> 3550 3550 1800	BHP - - 2	1 1 3	208 V 208 V 208 V 480 V	1 1 3	NO NO YES	[1] [2] [1] [2] [3] [6 [3] [6
P-AHUP1A P-AHUP1B P-AHUSR1A P-AHUSR1B	AHU HTG COIL AHU HTG COIL AHU HTG COIL AHU HTG COIL	INLINE [2] INLINE [2] INLINE [3] INLINE [3]	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80	30 30 90 90	50 50 50 50 50	RPM 3550 3550 1800 1800	BHP 2 2 2	HP 1 1 3 3	208 V 208 V 208 V 480 V 480 V	1 1 3 3	NO NO YES YES	\$ [1] [2] [1] [2] [3] [6 [3] [6 [3] [6
P-AHUP1A P-AHUP1B P-AHUSR1A P-AHUSR1B P-AHUSR2A	AHU HTG COIL	INLINE [2] INLINE [2] INLINE [3] INLINE [3] INLINE [3]	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80 3x3x9.5C SERIES E-80	30 30 90 90 160	50 50 50 50 50 50	RPM 3550 3550 1800 1800 1800	BHP 2 2 3.1	HP 1 1 3 3 5	208 V 208 V 208 V 480 V 480 V 480 V	1 1 3 3 3	NO NO YES YES YES	\$ [1] [2] [1] [2] [3] [4] [3] [4] [5] [6] [6] [6] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7
P-AHUP1B P-AHUSR1A P-AHUSR1B P-AHUSR2A P-AHUSR2B	AHU HTG COIL	INLINE [2] INLINE [2] INLINE [3] INLINE [3] INLINE [3] INLINE [3]	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80 3x3x9.5C SERIES E-80 3x3x9.5C SERIES E-80	30 30 90 90 160 160	50 50 50 50 50 50 50	RPM 3550 3550 1800 1800 1800	BHP 2 2 3.1 3.1	HP 1 1 3 3 5 5	208 V 208 V 208 V 480 V 480 V 480 V 480 V	1 1 3 3 3 3 3	NO NO YES YES YES YES	\$ [1] [2] [1] [2] [3] [6 [3] [6 [3] [6 [7] [7] [8
P-AHUP1A P-AHUSR1A P-AHUSR1B P-AHUSR2A P-AHUSR2B P-SG-1A	AHU HTG COIL HW	INLINE [2] INLINE [2] INLINE [3] INLINE [3] INLINE [3] INLINE [3] BASE MTD	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80 3x3x9.5C SERIES E-80 3x3x9.5C SERIES E-80 5EB SERIES E-1510	30 30 90 90 160 160 750	50 50 50 50 50 50 50 50 50	RPM 3550 3550 1800 1800 1800 1800	BHP 2 2 3.1 3.1 22.5	HP 1 1 3 3 5 5 30	208 V 208 V 208 V 480 V 480 V 480 V 480 V 480 V	1 1 3 3 3 3 3 3	NO NO YES YES YES YES YES YES YES	\$ [1] [2] [1] [2] [3] [6 [3] [6 [7] [8 [7] [
P-AHUP1A P-AHUSR1A P-AHUSR1B P-AHUSR2A P-AHUSR2B P-SG-1A P-SG-1B	AHU HTG COIL HW HW	INLINE [2] INLINE [2] INLINE [3] INLINE [3] INLINE [3] INLINE [3] BASE MTD BASE MTD	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80 3x3x9.5C SERIES E-80 3x3x9.5C SERIES E-80 5EB SERIES E-1510 5EB SERIES E-1510	30 30 90 90 160 160 750 750	50 50 50 50 50 50 50 50 95	RPM 3550 3550 1800 1800 1800 1800 1800 1800	BHP 2 2 3.1 3.1 22.5 22.5	HP  1 1 3 3 5 5 5 30 30	208 V 208 V 208 V 480 V 480 V 480 V 480 V 480 V 480 V	1 1 3 3 3 3 3 3 3	NO NO YES YES YES YES YES YES YES YES	\$ [1] [2] [1] [2] [3] [6 [3] [6 [7] [8 [7] [
P-AHUP1A P-AHUSR1A P-AHUSR1B P-AHUSR2A P-AHUSR2B P-SG-1A P-SG-1B P-SG-1C	AHU HTG COIL HW HW HW	INLINE [2] INLINE [2] INLINE [3] INLINE [3] INLINE [3] INLINE [3] BASE MTD BASE MTD BASE MTD	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80 3x3x9.5C SERIES E-80 3x3x9.5C SERIES E-80 5EB SERIES E-1510 5EB SERIES E-1510 5EB SERIES E-1510	30 30 90 90 160 160 750 750 750 1200	50 50 50 50 50 50 50 95 95 95 95 85	RPM 3550 3550 1800 1800 1800 1800 1800 1800 1800 1	BHP 2 2 3.1 3.1 22.5 22.5 22.5	HP 1 1 3 3 5 5 5 30 30 30	VOLTAGE  208 V  208 V  480 V	1 1 3 3 3 3 3 3 3 3	NO NO YES	\$ [1] [2] [1] [2] [3] [6 [3] [6 [3] [6 [7] [8 [7] [8 [7] [8 [4] [4] [4] [4] [4] [4] [4] [4] [4] [4]
P-AHUP1A P-AHUSR1A P-AHUSR2A P-AHUSR2B P-SG-1A P-SG-1B P-SG-1C P-SG-2A	AHU HTG COIL HW HW HW CHW	INLINE [2] INLINE [2] INLINE [3] INLINE [3] INLINE [3] INLINE [3] BASE MTD BASE MTD BASE MTD BASE MTD	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80 3x3x9.5C SERIES E-80 3x3x9.5C SERIES E-80 5EB SERIES E-1510 5EB SERIES E-1510 VSC 5x6x10½A	30 30 90 90 160 160 750 750 750 1200	50 50 50 50 50 50 50 95 95 95 95 85	RPM 3550 3550 1800 1800 1800 1800 1800 1800 1800 1	BHP - 2 2 3.1 3.1 22.5 22.5 22.5 31.0	HP 1 1 3 3 5 5 5 30 30 40	208 V 208 V 480 V 480 V 480 V 480 V 480 V 480 V 480 V 480 V 480 V	1 1 3 3 3 3 3 3 3 3 3	NO NO YES	\$ [1] [2] [2] [3] [6] [3] [6] [3] [6] [7] [8] [8] [8] [8] [8] [8] [8] [8] [8] [8
P-AHUP1A P-AHUSR1A P-AHUSR1B P-AHUSR2A P-AHUSR2B P-SG-1A P-SG-1B P-SG-1C P-SG-2A P-SG-2B	AHU HTG COIL HW HW HW CHW	INLINE [2] INLINE [2] INLINE [3] INLINE [3] INLINE [3] INLINE [3] BASE MTD	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80 3x3x9.5C SERIES E-80 3x3x9.5C SERIES E-80 5EB SERIES E-1510 5EB SERIES E-1510 VSC 5x6x10½A VSC 5x6x10½A	30 30 90 90 160 160 750 750 750 1200	50 50 50 50 50 50 50 95 95 95 95 85	RPM 3550 3550 1800 1800 1800 1800 1800 1800 1800 1	BHP - 2 2 3.1 3.1 22.5 22.5 22.5 31.0 31.0	HP 1 1 3 3 5 5 5 30 30 40 40	VOLTAGE  208 V  208 V  480 V	1 1 3 3 3 3 3 3 3 3 3 3 3	NO NO YES	REMA S [1] [2] [1] [2] [3] [6 [3] [6 [3] [6 [7] [8 [7] [8 [7] [8 [4] [8 [4] [8 [4] [8 [5] [7] [7] [8
P-AHUP1A P-AHUSR1A P-AHUSR1B P-AHUSR2A P-AHUSR2B P-SG-1A P-SG-1B P-SG-1C P-SG-2A P-SG-2B P-SG-2C	AHU HTG COIL HW HW CHW CHW CHW	INLINE [2] INLINE [2] INLINE [3] INLINE [3] INLINE [3] INLINE [3] BASE MTD	ECOCIRC XL 65-130 ECOCIRC XL 65-130 2x2x9.5C SERIES E-80 2x2x9.5C SERIES E-80 3x3x9.5C SERIES E-80 3x3x9.5C SERIES E-80 5EB SERIES E-1510 5EB SERIES E-1510 VSC 5x6x10½A VSC 5x6x10½A VSC 5x6x10½A	30 30 90 90 160 160 750 750 750 1200	50 50 50 50 50 50 50 95 95 95 95 85	RPM  3550  3550  1800  1800  1800  1800  1800  1800  1800  1800  1800  1800  1800  1800	BHP  - 2 2 3.1 3.1 22.5 22.5 22.5 31.0 31.0 31.0	HP  1 1 3 3 5 5 5 30 30 30 40 40 40	VOLTAGE  208 V  208 V  480 V	1 1 3 3 3 3 3 3 3 3 3 3 3 3	NO NO YES	\$ [1] [2] [1] [2] [3] [4] [6] [7] [6] [7] [6] [7] [6] [7] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7

l l						
ET-AHUSR1	AHU HTG COIL	BLADDER	B-300	80	80	
ET-AHUSR2	AHU HTG COIL	BLADDER	B-300	80	80	
ET-SG-1A	HW	BLADDER	B-1600	422	422	
ET-SG-1B	HW	BLADDER	B-1600	422	422	
ET-SG-1C	HW	BLADDER	B-1600	422	422	
ET-SG-2	CHW	BLADDER	B-1200	317	317	
ET-SG-3	LPCHW	BLADDER	B-400	106	106	
			AIR SEPARATO	OR SCHEDULE		
	GENERAL	<u>NOTES</u>		<u>sci</u>	HEDULE NOTES	
1. BASIS OF DESIGN	N MANUFACTURER: BELL & GO	OSSETT	[1]	NOT USED		
2. MINIMUM 85% AIF	R ELIMINATION EFFICIENCY.					
3. MAXIMUM 2 FT. P						
	RESSURE DROP.					

**EXPANSION TANK SCHEDULE** 

B-300

**GENERAL NOTES** 

BLADDER

 $\stackrel{\text{\scriptsize I-1}}{\longrightarrow}$  AL BASIS OF DESIGN MANUFACTURER: BELL AND GOSSETT

AHU HTG COIL

ET-AHUP1

SCHEDULE NOTES

5. FURNISH MODEL WITHOU	ΓSTRAINER.	^		
TAG ID	SERVES	MODEL	MAXIMUM FLOW RATE (GPM)	REMARI
AS-SG-1	HW	RL-12F	4800	
AS-SG-2	CHW	RL-10F	3600	
AS-SG-3	LPCHW	RL-6F	850	
AS-AHUP1	AHU HTG COIL	RL-2F	56	
AS-AHUSR1	AHU HTG COIL	RL-3F	190	
AS-AHUSR2	AHU HTG COIL	RL-4F	300	
AS-AHUSR2	AHU HTG COIL	RL-4F	300	

			PRESSURE REDUCIN	NG VALVE SCHEDULE		
	<u>G</u>	ENERAL NOTES			SCHEDULE NOTES	
1. MANUFACTURI	ER BASED UPON: SPENC	E		[1] SELF CONTAINED PILOT (	OPERATED PRV. CLASS 125.	
	OW DIAGRAM FOR STAT	ION ASSEMBLY LOCATION	ON, SEE PRV DETAILS	[2] REPRESENTS TOTAL CAP	PACITY OF STATION.	
FOR # OF PRV	PER STATION			[3] TWO PRVS EACH SIZED A	NT 50% TOTAL LOAD.	
3. PROVIDE PRV LEVELS BELOV	VITH SOUND ATTENUAT / 80 dBA.	ION TO MAINTAIN SOUN	D	[4] TWO PRVS EACH SIZED A		
	/	1-6		[5] FLANGED CONNECTIONS		
	_			[6] MPT CONNECTIONS		
TAG ID	TYPE	MODEL (SIZE)	INLET PRESSURE (PSIG)	OUTLET PRESSURE (PSIG)	CAPACITY LBS OF STM PER HR [2]	REMARKS
PRV-SG-1A/1B	[1]	ED-4"	65	15	18,000	[3], [5]
PRV-SG-2A/2B	[1]	ED-3/8"	65	40	100	[4], [6]
PRV-SG-3A/3B	[1]	ED-2"	65	15	7,500	[3], [5]
PRV-SG-4A/4B	[1]	ED-3/8"	65	40	100	[4], [6]



GOODYCLANCY
Mitchell | Giurgola Architects, LLP

ARCHITECT: ARC
Mitchell | Giurgola Architects, LLP Good
630 Ninth Avenue, Suite 711 420
New York, New York 10036 Bos
212 663 4000 617

ARCHITECT:
Goody Clancy
420 Boylston St.
Boston, MA 02116
617 262 2760

ROBERT SILMAN ASSOCIATES
111 Devonshire St
Boston, Massachsetts
617-695-6700

MEP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

SITE | CIVIL ENGINEER:
BVH Integrated Services

50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

LIGHTING SUSTAINABILITY CONSULTANT:
ATELIER TEN
195 Church Street, 10th Floor
New Haven, Connecticut 06510
203-777-1400

LANDSC APE ARCHITECT
TOWERS|GOLDE LLC
85 WILLOW ST
NEW HAVEN CT 06511
203-773-1153 x322

CODE CONSULTANT

ELKINS, NH 03233

603-526-6190

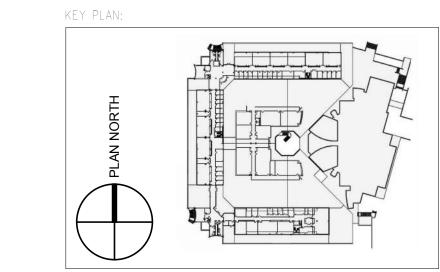
P.O. BOX216

Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD

SPECIFIC ATIONS:
WILSPEC LLC
LYNNFIELD MEDIC AL OFFICE BUILDING
15 POST OFFICE SQUARE
LYNNFIELD, MA 01940
784-598-6789

CONSTRUCTION MANAGER
WHITING-TURNER CONSTRUCTION CO.
123 CHURCH STREE, 10TH FLOOR
NEW HAVEN, CT 06510
203-777-6783



ISSUE/RI	EVISION:		PR
NO.	DATE	COMMENTS	G
1-1	04/21/2017	ADDENDUM 1	
1-3	05/05/2017	ADDENDUM 3	R
1-4	05/12/2017	ADDENDUM 4	
1-4	05/12/2017	ADDENDUM 4 WRITTEN CHANGES	D
1-6	08/11/2017	BULLETIN 6	<u> </u>
1-11	10/26/2017	BULLETIN 11	I
1-19	02/08/2018	BULLETIN 19	I
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GANT BUILDING
RENOVATIONS—STEM
PHASE 1

HVAC SCHEDULES

PROJECT NO: 9920

DATE: 04/03/2017

PHASE: 100% CONSTRUCTION DOCUMENTS SCALE:

DRAWN BY: KLB

CHECKED BY: AV

**M-800-S** 

#901803

	<u>(</u>	GENERAL NOTES	SCHEDULE NOTES
	MANUFACTURER MODE OTHERWISE: TITUS	L BASED UPON, UNLESS NOTED	[1] NOT USED.
2.	ALL DRG ARE STEEL UN	ILESS NOTED OTHERWISE.	
	CONSTRUCTION AND PI	TING TYPE SUITABLE FOR CEILING/WALL ER DIRECTION OF ARCHITECT. SEE ING PLANS AND DRAWINGS.	
4.	PROVIDE CUSTOM COL	OR AND FINISH PER DIRECTION OF ARCHITECT.	
	RECTANGULAR PER DIF	SERS ARE WALL MOUNTED, GRILLE TO BE RECTION OF ARCHITECT AND EQUIVALENT LUARE PER SIZING TABLE, UNLESS SIZE NOTED ON S	
6.	NC 25 SIZING BASED ON	N MAX NECK VELOCITY OF 350 FPM.	
		GRILLE AND DIFFUSE	R SCHEDULE
TYPE	MODEL		DESCRIPTION:
A1	TDV	SQUARE LOUVER FACE CEILING SUPPLY DIFFUS	ER WITH REMOVABLE CORE, LAY-IN, 1 WAY THROW. INDUCTION VANES.
A2	TDV	SQUARE LOUVER FACE CEILING SUPPLY DIFFUS	ER WITH REMOVABLE CORE, LAY-IN, 2 WAY CORNER THROW. INDUCTION
		VANES.	
A3	TDV	VANES. SQUARE LOUVER FACE CEILING SUPPLY DIFFUS	ER WITH REMOVABLE CORE, LAY-IN, 3 WAY THROW. INDUCTION VANES.
A3 A4	TDV TDV	SQUARE LOUVER FACE CEILING SUPPLY DIFFUS	
		SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS	ER WITH REMOVABLE CORE, LAY-IN, 3 WAY THROW. INDUCTION VANES.
A4	TDV	SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS VANES. LOUVER TYPE CEILING/WALL RETURN OR EXHAL PARALLEL TO THE LONG DIMENSION. FOR ALL N	ER WITH REMOVABLE CORE, LAY-IN, 3 WAY THROW. INDUCTION VANES.  ER WITH REMOVABLE CORE, LAY-IN, 4 WAY THROW. INDUCTION VANES.
A4 A5	TDV TDV	SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS VANES. LOUVER TYPE CEILING/WALL RETURN OR EXHAL PARALLEL TO THE LONG DIMENSION. FOR ALL N ACOUSTIC RETURN AIR CANOPY EQUAL TO RAY	ER WITH REMOVABLE CORE, LAY-IN, 3 WAY THROW. INDUCTION VANES.  ER WITH REMOVABLE CORE, LAY-IN, 4 WAY THROW. INDUCTION VANES.  ER WITH REMOVABLE CORE, LAY-IN, 2 WAY OPPOSITE THROW. INDUCTION  JST GRILLE, 35° DEGREE FIXED DEFLECTION, 3/4" SPACING WITH BLADES ION-DUCTED CEILING RETURN GRILLES OPEN TO CEILING PLENUM, PROVIDE MON MODEL CLS-A, TRANSWALL ACOUSTICAP, OR PRICE MODEL RAC.  INUM, 1 SLOT, 1" SLOT WIDTH, 2-WAY DISCHARGE ICE TONG WITH 180°
A4 A5 B	TDV TDV 350RL	SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS VANES.  LOUVER TYPE CEILING/WALL RETURN OR EXHAL PARALLEL TO THE LONG DIMENSION. FOR ALL N ACOUSTIC RETURN AIR CANOPY EQUAL TO RAY MODULINEAR SLOT DIFFUSER, EXTRUDED ALUM PATTERN CONTROLLER. PROVIDE LENGTH INSU	ER WITH REMOVABLE CORE, LAY-IN, 3 WAY THROW. INDUCTION VANES.  ER WITH REMOVABLE CORE, LAY-IN, 4 WAY THROW. INDUCTION VANES.  ER WITH REMOVABLE CORE, LAY-IN, 2 WAY OPPOSITE THROW. INDUCTION  JST GRILLE, 35° DEGREE FIXED DEFLECTION, 3/4" SPACING WITH BLADES ION-DUCTED CEILING RETURN GRILLES OPEN TO CEILING PLENUM, PROVIDE MON MODEL CLS-A, TRANSWALL ACOUSTICAP, OR PRICE MODEL RAC.  INUM, 1 SLOT, 1" SLOT WIDTH, 2-WAY DISCHARGE ICE TONG WITH 180°
A4 A5 B	TDV TDV 350RL ML-39	SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS SQUARE LOUVER FACE CEILING SUPPLY DIFFUS VANES.  LOUVER TYPE CEILING/WALL RETURN OR EXHAL PARALLEL TO THE LONG DIMENSION. FOR ALL N ACOUSTIC RETURN AIR CANOPY EQUAL TO RAY MODULINEAR SLOT DIFFUSER, EXTRUDED ALUM PATTERN CONTROLLER. PROVIDE LENGTH INSU MODULINEAR SLOT DIFFUSER, EXTRUDED ALUM 180° PATTERN CONTROLLER. 48" LENGTH WITH 1 INSULATED PLENUM.	ER WITH REMOVABLE CORE, LAY-IN, 3 WAY THROW. INDUCTION VANES.  ER WITH REMOVABLE CORE, LAY-IN, 4 WAY THROW. INDUCTION VANES.  ER WITH REMOVABLE CORE, LAY-IN, 2 WAY OPPOSITE THROW. INDUCTION  JST GRILLE, 35° DEGREE FIXED DEFLECTION, 3/4" SPACING WITH BLADES ION-DUCTED CEILING RETURN GRILLES OPEN TO CEILING PLENUM, PROVIDE MON MODEL CLS-A, TRANSWALL ACOUSTICAP, OR PRICE MODEL RAC.  INUM, 1 SLOT, 1" SLOT WIDTH, 2-WAY DISCHARGE ICE TONG WITH 180° JLATED PLENUMS AS INDICATED ON PLANS.  INUM, 3 SLOT, 1 1/2" SLOT WIDTH, 2-WAY DISCHARGE ICE TONGS WITH

| Type a Ceiling Supply Diffuser | Type B Ducted Ceiling Return/exhaust Grille | Type B Non-Ducted Ceiling Return/exhaust Grille | Type B Non-Ducted Ceiling Return/exhaust Grille | Type B Non-Ducted Ceiling Return/exhaust Grille | Supply Diffusers | Supply Dif

		GRILLE A	ND DIFFUSER	SIZING FOR NC	25/30 SPACES	(WHERE NOTED)		
TYPE A	CEILING SUPPI	Y DIFFUSER	_	CTED CEILING HAUST GRILLE		DUCTED CEILING HAUST GRILLE	FLEXIBL SIZES TO DIFFU	SUPPLY
CFM	SQUARE NECK SIZE	ROUND NECK SIZE	CFM	NECK SIZE	CFM	NECK SIZE	CFM	NECK SIZE
0-125	9x9	8"Ø	0-275	12x12	0-275	12x12	0-125	8"Ø
125-275	12x12	12"Ø	275-400	16x16	275-400	16x16	125-300	12"Ø
275-400	15x15	14"Ø	401-800	22x22	401-1000	22x22	300-425	14"Ø
401-550	18x18	16"Ø					425-550	16"Ø

		HUN	MIDIFIER SCHE	DULE - ELEC	TRIC			
		GENERAL NOTES				SCHEDU	ILE NOTES	
1. MANUFACTUREF	R BASED ON DRI-STEAM				[1] NOT	USED		
2 CAPACITY BASE	D ON ECONOMIZER SYSTE	·M						
	D GIV EGGIVOIVIIZEIX GTGTE	.1V1						
	TE DUCT MOUNTED DISPE			SCHEDULE.				
PROVIDE HARD PIL	PE PER DETAIL. SIZE PER	MANUFACTURER INSTRU	UCTIONS.					
A DDU/IDE DDVIV								
14. FROVIDE DRAIN	I COOLER BASED ON DRI-S	STEEM DRANE KOOLER M	IODEL DK-12, FIELD	INSTALLED. SEE				
DETAIL.	$\wedge$	STEEM DRANE KOOLER M	IODEL DK-12, FIELD	INSTALLED. SEE				
DETAIL.	1-3	13	IODEL DK-12, FIELD	INSTALLED. SEE				
DETAIL.	$\wedge$	13	IODEL DK-12, FIELD	INSTALLED. SEE				
DETAIL.	1-3	13	IODEL DK-12, FIELD	INSTALLED. SEE	GE J.	STEAM LBS/HR	REMARKS	
DETAIL. 5. PROVIDE WALL I	1.3\ MOUNTING FOR EHUM UNI	TS. 13				STEAM LBS/HR 21.3	REMARKS	
DETAIL.  5. PROVIDE WALL I  TAG ID	MOUNTING FOR EHUM UNI SERVICE	TS. MODEL		VOLTA	<b>\{\)</b>		1-19	
5. PROVIDE WALL I  TAG ID  EHUM-SG-L1	MOUNTING FOR EHUM UNI  SERVICE  S024 (HANCOCK)	TS. 13 MODEL VM-8		VOLTA( 480 V 480 V 480 V		21.3 8.5 21.3	110	
5. PROVIDE WALL I  TAG ID  EHUM-SG-L1  EHUM-SG-L2	MOUNTING FOR EHUM UNI  SERVICE  S024 (HANCOCK)  S023 (MECH PUMP)	MODEL  VM-8  VM-4		VOLTA( 480 V 480 V		21.3	110	
5. PROVIDE WALL I  TAG ID  EHUM-SG-L1  EHUM-SG-L2  EHUM-SG-L3	MOUNTING FOR EHUM UNI  SERVICE  S024 (HANCOCK)  S023 (MECH PUMP)  S022 (SOCHNIKOV)	MODEL  VM-8  VM-4  VM-8	<b>KW</b> 8 4 8	VOLTA 480 V 480 V 480 V		21.3 8.5 21.3	110	
5. PROVIDE WALL I  TAG ID  EHUM-SG-L1  EHUM-SG-L2  EHUM-SG-L3  EHUM-SG-L7	MOUNTING FOR EHUM UNI  SERVICE  S024 (HANCOCK)  S023 (MECH PUMP)  S022 (SOCHNIKOV)  S018 (UNASSIGNED)	MODEL  VM-8  VM-4  VM-8  VM-6	<b>KW</b> 8 4 8 6	VOLTA( 480 V 480 V 480 V 480 V		21.3 8.5 21.3 14.9	110	
TAG ID EHUM-SG-L1 EHUM-SG-L2 EHUM-SG-L3 EHUM-SG-L7 EHUM-SG-L9	MOUNTING FOR EHUM UNI  SERVICE  S024 (HANCOCK)  S023 (MECH PUMP)  S022 (SOCHNIKOV)  S018 (UNASSIGNED)  S011 (SMITH)	MODEL VM-8 VM-4 VM-8 VM-6 VM-6	8 4 8 6 6	VOLTA( 480 V 480 V 480 V 480 V 480 V		21.3 8.5 21.3 14.9 14.9	110	
TAG ID EHUM-SG-L1 EHUM-SG-L3 EHUM-SG-L7 EHUM-SG-L9 EHUM-SG-L10	MOUNTING FOR EHUM UNI  SERVICE  S024 (HANCOCK)  S023 (MECH PUMP)  S022 (SOCHNIKOV)  S018 (UNASSIGNED)  S011 (SMITH)  S013 (STWALLEY)	MODEL  VM-8  VM-4  VM-8  VM-6  VM-6  VM-6	<b>KW</b> 8 4 8 6 6	VOLTA( 480 V 480 V 480 V 480 V 480 V 480 V 480 V		21.3 8.5 21.3 14.9 14.9 14.9	110	

			DUCT M	OUNTED	HUMIDIF	FIER PANE	EL SCHEI	DULE				
	G	ENERAL NOTES						<u>SCH</u>	EDULE NOT	ES		
. MANUFACTURE	R BASED ON DR	I-STEEM ULTRA-SOF	RB MODEL LV		[1] SIZ	ZE PER MANU	IFACTURE II	NSTRUCTIO	N FOR LENG	GTH OF RUN	1	
MAXIMUM ABSO	RBTION DISTAN	CE 13" UNLESS NOT	ED OTHERWIS	SE								
						T						
TAG ID	CFM	DUCT SIZE	STEAM	EA		LA			ONDITION	PIPE SI		REMARKS
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		LBS/HR	DB(°F)	RH(%)	DB(°F)	RH(%)	DB(°F)	RH(%)	STEAM	COND	REMARKS
TAG ID H-SG-L1	2500	30X16	<b>LBS/HR</b> 21.3	<b>DB(°F)</b> 55	<b>RH(%)</b>	<del>                                     </del>	<b>RH(%)</b> 79	<b>DB(°F)</b> 72		STEAM [1]	COND [1]	REMARKS
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	30X16	LBS/HR	DB(°F)	RH(%)	DB(°F)	RH(%)	DB(°F)	RH(%)	STEAM	COND	REMARKS
H-SG-L1	2500 1000 2500	30X16 24X12	<b>LBS/HR</b> 21.3	<b>DB(°F)</b> 55	<b>RH(%)</b>	<b>DB(°F)</b> 56	<b>RH(%)</b> 79	<b>DB(°F)</b> 72	<b>RH(%)</b> 45	STEAM [1]	COND [1]	REMARKS
H-SG-L1 H-SG-L2	2500 1000 2500	30X16 24X12	LBS/HR 21.3 8.5	<b>DB(°F)</b> 55 55	<b>RH(%)</b> 15 15	<b>DB(°F)</b> 56 56	<b>RH(%)</b> 79 79	<b>DB(°F)</b> 72 72	<b>RH(%)</b> 45 45	<b>STEAM</b> [1] [1]	[1]	REMARKS
H-SG-L1 H-SG-L2	2500 1000 2500	30X16 24X12 30X16	21.3 8.5 21.3	<b>DB(°F)</b> 55 55 55	<b>RH(%)</b> 15 15 15	<b>DB(°F)</b> 56 56 56	<b>RH(%)</b> 79 79 79	DB(°F) 72 72 72 72	<b>RH(%)</b> 45 45 45	[1] [1] [1]	[1] [1] [1]	REMARKS
H-SG-L1 { H-SG-L2 H-SG-L3 H-SG-L7	2500 1000 2500 1750	30X16 24X12 30X16 30X16 30X14	21.3 8.5 21.3 14.9	DB(°F) 55 55 55 55	RH(%) 15 15 15 15 15	<b>DB(°F)</b> 56 56 56 56	<b>RH(%)</b> 79 79 79 79 79	DB(°F)  72  72  72  72  72	<b>RH(%)</b> 45 45 45 45 45	[1] [1] [1] [1] [1]	COND [1] [1] [1] [1] [1]	REMARKS
H-SG-L1 { H-SG-L2 H-SG-L3 { H-SG-L7 H-SG-L9	2500 1000 2500 1750 1750	30X16 24X12 30X16 30X16 30X14 30X14	21.3 8.5 21.3 14.9 14.9	DB(°F) 55 55 55 55 55	RH(%)  15  15  15  15  15  15  15	<b>DB(°F)</b> 56 56 56 56 56	<b>RH(%)</b> 79 79 79 79 79 79	DB(°F)  72  72  72  72  72  72  72	<b>RH(%)</b> 45 45 45 45 45 45	\$TEAM [1] [1] [1] [1] [1] [1]	[1] [1] [1] [1] [1] [1]	REMARKS
H-SG-L1 { H-SG-L2 H-SG-L3 { H-SG-L7 H-SG-L9 H-SG-L10	2500 1000 2500 1750 1750 1750	30X16 24X12 30X16 30X16 30X14 26X14	21.3 8.5 21.3 14.9 14.9	DB(°F) 55 55 55 55 55 55 55	RH(%)  15  15  15  15  15  15  15  15	<b>DB(°F)</b> 56 56 56 56 56 56	<b>RH(%)</b> 79 79 79 79 79 79 79	DB(°F) 72 72 72 72 72 72 72 72 72	RH(%) 45 45 45 45 45 45 45 45	\$TEAM [1] [1] [1] [1] [1] [1] [1]	[1] [1] [1] [1] [1] [1] [1] [1]	REMARKS

			HOT M	ATER HEATIN	IC COII					
			пот и	MAIER NEAIII	NG COIL					
	<u>G</u>	ENERAL NOTES				SCHEDULE NOTES				
2. CAPACITY SHAI	ER BASIS OF DESIGN LL BE BASED UP 180 LAT, .25" MAX APD, 5	°F EWT, 160°F LWT	<u>/1-3\</u>		[1] NUMBER OF ROWS IN HEATING COIL TO BE DETERMINED BY PERFORMANCE AS SPECIFIED.					
TAG ID	AIR FLOW	WIDTH (1)	HEIGHT [1]	MBH	GPM	PIPE SIZE RUNOUT (IN)	REMARKS			
RHC-S4-1A	1600	2' - 8"	1' - 2"	53	6	1				
RHC-S4-2A	1500 /1-3	2' - 6"	1' - 2"	50	6	1				
RHC-S4-3A	1900	2' - 6"	1' - 2"	60	6	1				
RHC-S4-4	1400	2' - 6"	1' - 2"	47	5	1				
RHC-SG-1A	1900	2' - 6"	1' - 6"	63	7	1				
RHC-SG-1B	500	1' - 4"	1' - 0"	17	2	3/4				
RHC-SG-3A	2000	2' - 4"	1' - 2"	66	7	1				
RHC-SG-3B	500	1' - 4"	1' - 0"	17	2	3/4				
RHC-SG-4	1250	2' - 10"	1' - 4"	42	5	1				
RHC-SG-5	850	2' - 0"	1' - 0"	28	3	3/4				
RHC-SG-6A	650	1' - 6"	1' - 0"	22	3	3/4				
RHC-SG-6B	300	1' - 0"	1' - 0"	10	1	3/4				
RHC-SG-8	2000	2' - 6"	1' - 0"	66	7	1				
RHC-SG-11A	1900	2' - 8"	1' - 8"	63	7	1				
RHC-SG-11B	500	1' - 4"	1' - 0"	17	2	3/4				

AIRFLOW CONTR	TROL VALVE SCHEDULE					
GENERAL NOTES	SCHEDULE NOTES					
<ol> <li>MANUFACTURER MODEL BASED UPON, UNLESS NOTED OTHERWISE: PHOENIX.</li> <li>ALL VALVES ARE MODULATING TYPE AND STANDARD SPEED ACTUATION UNLESS NOTED OTHERWISE</li> <li>VALVE MAX CAPACITY SHALL EXCEED OPERATING MAX CFM BY 20%.</li> <li>PROVIDE SOUND ATTENUATION FOR ALL AIR VALVES.</li> <li>MAX. PRESSURE DROP (ALL VALVES &lt; 0.5" WG).</li> <li>ALL SUPPLY AND GENERAL EXHAUST (VALVE HOUSING: ALUMINUM); ALL FUME HOOD EXHAUST (VALVE HOUSING: PHENALIC COATING).</li> <li>PROVIDE INSULATION FOR ALL SUPPLY AIR VALVES.</li> <li>VALVE NOMINAL CFM RANGES:         <ul> <li>8" - 35/500</li> <li>10" - 50/550</li> <li>12" - 90/1050</li> <li>14" - 200/1400</li> </ul> </li> <li>PROVIDE DRAWBAND CLAMPS FOR ALL SINGLE VALVES</li> <li>PROVIDE SOUND ATTENUATING DEVICE (NEUTRALIZER) BY AIR VALVE MANUFACTURER PER SPECIFCATION FOR ALL AIR VALVES UNLESS NOTED OTHERWISE</li> </ol>	[1] MAX / MIN (1-1)  [2] WHERE VALVE MINIMUM NOT INDICATED MINIMUM TO BE SET TO MAINTAIN ROOM MINIMUM AIR CHANGE RATE FOR OCC/UNOCC MODES LISTED IN BASIS OF DESIGN AND NET TRANSER CFM INDICATED ON HVAC AIR FLOW PLANS.  [3] HIGH SPEED ACTUATION AIR VALVE ACTUATOR (SEE SPECIFICATION FOR DETAILS)  [4] SOUND ATTENUATOR IS NOT REQUIRED ON SUPPLY AIR VALVE SERVING SPECIAL FOR PROVIDE DUCT SOUND ATTENUATOR (DSA) ON LAB GENERAL EXHAUST PER DSA SCHEDULE INSTEAD OF BY LAB AIR TERMINAL MANUFACTURER.					

			OPERA'	TING CFM		VALVE	
TAG ID	ROOM	SERVICE	OCCUPIED [1]	UNOCCUPIED [1]	QUANTITY	SIZE (IN)	NOTES
CV-S4-1A	S421 (PUCKETT)	SUPPLY	1600/725	1600/400	2	12	
ACV-S4-1B	S421 (PUCKETT)	EXHAUST	1750/875	1750/450	2	12	
ACV-S4-2A	S420 (WUOSMAA)	SUPPLY	1500/675	1500/275	2	12	
ACV-S4-2B	S420 (WUOSMAA)	EXHAUST	△ 1650/825	1650/425	2	12	
ACV-S4-3A	S419 (JONES, CORMIER)	SUPPLY	1-3\ 1900/850	1800/350	2	12	[3]
ACV-S4-3B	S419 (JONES, CORMIER)	EXHAUST	1950/1000	1950/500	2	14	[3]
ACV-S4-3C	S419 (JONES, CORMIER)	EXHAUST HOOD	600/150	600/150	1	12	[3]
ACV-S4-4A	S417 (JOO)	SUPPLY	1500/675	1500/275	2	12	
ACV-S4-4B	S417 (JOO)	EXHAUST	1650/825	1650/425	2	12	1-1
ACV-SG-1A	S024 (HANCOCK)	SUPPLY	2400/1750	2550/650	2	14	[4]
ACV-SG-1B	S024 (HANCOCK)	EXHAUST	2550/1900	2550/650 /1-10	2	14	[5]
ACV-SG-2A	S023 (MECH PUMP)	SUPPLY	1000/400	1000/200	1	14	[3] ^
ACV-SG-2B	S023 (MECH PUMP)	EXHAUST	1000/550	1000/550	1	14	[3] /1-1
ACV-SG-2C	S023 (MECH PUMP)	EXHAUST HOOD	600/150	600/150	1	12	[3]
ACV-SG-3A	S022 (SOCHNIKOV)	SUPPLY	2400/1750	2400/500	2	14	[4]
ACV-SG-3B	S022 (SOCHNIKOV)	EXHAUST	2550/1900	2550/650	2	14	[5]
ACV-SG-4A	S021 (SHARED CHAR)	SUPPLY	1200/875	1200/200	2	12	[4] ^
ACV-SG-4B	S021 (SHARED CHAR)	EXHAUST	1350/1025	1350/350	1	12	[5] 1-1
ACV-SG-5A	S017 (TEST FACILITY)	SUPPLY	850/600	850/175	1	12	
ACV-SG-5B	S017 (TEST FACILITY)	EXHAUST	1000/750	1000/250	1	12	
ACV-SG-6A	S016 (ASTRO RESEARCH)	SUPPLY	650/325	650/150	1	12	
ACV-SG-6B	S016 (ASTRO RESEARCH)	EXHAUST	800/400	800/200	2	12	
ACV-SG-7A	S018 (UNASSIGNED)	SUPPLY	1450/1050	1450/300	2	12	
ACV-SG-7B	S018 (UNASSIGNED)	EXHAUST	1600/1200	1600/400	2	12	
ACV-SG-8A	S019 (MACHINE SHOP)	SUPPLY	2000/1500	2000/450	2	14	
ACV-SG-8B	S019 (MACHINE SHOP)	EXHAUST	2150/1650	2150/550	2	14	
ACV-SG-8C	S019 (MACHINE SHOP)	MACHINE EXHAUST	600/150	150/150	1	8	1-1
ACV-SG-9A	S011 (TRALLERO)	SUPPLY	1600/1175	1600/375	2	12	[4]
ACV-SG-9B	S011 (TRALLERO)	EXHAUST	1750/1325	1750/450	2	12	[5]
ACV-SG-10A	S013 (AMO)	SUPPLY	1600/1175	1600/375	2	12	[4]
ACV-SG-10B	S013 (AMO)	EXHAUST	1750/1325	1750/450	2	12	[5] /1-1
ACV-SG-11A	S009 (BERRAH)	SUPPLY	2400/1750	2400/500	2	14	[3], [4]
ACV-SG-11B	S009 (BERRAH)	EXHAUST	2550/1900	2550/650	2	14	[3], [5]
ACV-SG-11C	S009 (BERRAH)	EXHAUST HOOD	600/150	600/150	1	12	[3]
ACV-SG-11D	S009 (BERRAH)	GAS CABINET	600/150	600/150	1	12	[3] 1-1
ACV-SG-12AA	S015 (MCCARRON)	SUPPLY	1000/750	1000/250	1	12	[4]
ACV-SG-12AB	S015 (MCCARRON)	SUPPLY /1-1	1000/750	1000/250	1	12	[4]
CV-SG-12B	S015 (MCCARRON)	EXHAUST	2150/1650	2150/550	2	14	
CV-SG-13A	S010 (BERRAH MECH)	SUPPLY	450/0	450/0	<u>-</u> 1	8	
CV-SG-13B	S010 (BERRAH MECH)	EXHAUST	500/50	500/50	<u>.</u> 1	8	
CV-SG-14A	S011 (AMO/TRALLERO MECH)		950/50	950/50	1	12	
ACV-SG-14B	S011 (AMO/TRALLERO MECH)		1000/100	1000/100	<u>.</u> 1	12	
ACV-SG-15A	S015 (MCCARRON MECH)	SUPPLY	450/0	450/0	1	8	
ACV-SG-15B	S015 (MCCARRON MECH)	EXHAUST	500/50	500/50	1	8	+

		OFNIER AT THE	13							<b>FD:</b>		<b>n</b> -		
1. BASIS OF DESIG	_	RER: VIBRO A			[1	] FILM LII	NFD		<u>SCH</u>	EDULE	NOTES	<u>S:</u>		
. MAXIMUM ALLC					[2	P] ELBOW B] TWO EI	TYPE							<u>/1-</u>
AG ID	SERVICE	MODEL	TOTAL CFM	OVERALL SECTION	SIZE (IN) LENGTH		RTION 125	LOSS (	OCTAV 500	E BAN	D FREC	QUENCII 4K	ES (Hz) 8K	NOTES
SA-P1-R	AHU RA	RD-HV	24000	66x28	60	3	6	11	23	24	19	13		[1]
SA-P1-S	AHU SA	RD-HV	24000	64x34	60	4	4	7	14	21	23	23		[0]
DSA-P1-V3	VAV SA VAV SA	RD-LV RD-LV	2400 2400	42x30 42x30	60 60	7	11	25 25	42 42	44	43 43	29 29		[2]
DSA-P1-V7 DSA-P1-V10A	VAV SA VAV SA	RD-LV	1350	38x18	60	7	11	25	42	44	43	29		[2]
DSA-P1-V10A DSA-P1-V10B	VAV SA VAV SA	RD-LV RD-LV	1350	38x18 38x18	60	7	11	25	42	44	43	29		
DSA-P1-V10B DSA-P1-V12	VAV SA VAV SA	RD-LV	2400	42x30	60	7	11	25	42	44	43	29		[2]
DSA-P1-V12 DSA-P1-V16	VAV SA	RD-LV RD-LV	2400	42x30 42x30	60	7	11	25	42	44	43	29		[2]
DSA-P1-V10 DSA-S1-V1	VAV SA	RD-LV	400	14x14	36	5	9	16	18	22	19	15		[2] [2]
DSA-S1-V1 DSA-S1-V2	VAV SA	RD-LV	150	12x12	36	5	7	15	21	24	20	14		[4]
DSA-S1-V3	VAV SA	RD-LV	800	18x16	36	4	6	17	26	30	26	18		[2] ∠
DSA-S1-V4	VAV SA	RD-LV	800	18x16	36	4	6	17	26	30	26	18		[2]
DSA-S1-V6	VAV SA	RD-LV	750	18x16	36	4	6	17	26	30	26	18		[2]
DSA-S1-V8	VAV SA	RD-LV	950	18X16	36	4	6	17	26	30	26	18		[2]
DSA-S1-V9	VAV SA	RD-LV	550	14x14	36									
DSA-S1-V14	VAV SA	RD-LV	1200	20x16	36	4	7	14	22	29	24	17		[2]
DSA-S1-V15	VAV SA	RD-LV	1200	20x16	36	4	7	14	22	29	24	17		[2]
DSA-S1-V17	VAV SA	RD-LV	350	12x12	36	5	9	16	18	22	19	15		
DSA-S1-V19	VAV SA	RD-LV	800	18x16	36	4	6	17	26	30	26	18		[2]
DSA-S1-V23	VAV SA	RD-LV	700	16x16	36	5	10	16	17	20	18	16		
DSA-S2-V1	VAV SA	RD-LV	600	16x12	36	5	10	16	17	20	18	16		[2]
DSA-S2-V2	VAV SA	RD-LV	800	18x16	36	4	6	17	26	30	26	18		[2]
DSA-S2-V3	VAV SA	RD-LV	600	16x14	36	5	10	16	17	201	18	16		[2]
DSA-S2-V5	VAV SA	RD-LV	1000	18x16	36	4	6	17	26	30	26	18		[2]
DSA-S2-V7	VAV SA	RD-LV	550	14x14	60	8	13	24	30	36	28	20		
DSA-S2-V8	VAV SA	RD-LV	950	18x16	36	4	6	17	26	30	26	18		
DSA-S2-V9	VAV SA	RD-LV	500	16x12	36									[2]
DSA-S2-V17	VAV SA	RD-LV	1000	18x16	36	5	10	16	17	20	18	16		
DSA-S3-V1	VAV SA	RD-LV	600	16x14	36	5	10	16	17	20	18	16		[2]
DSA-S3-V2	VAV SA	RD-LV	800	18x18	36	4	6	17	26	30	26	18		[2]
DSA-S3-V3	VAV SA	RD-LV	600	16x14	36	5	10	16	17	20	18	16		[2]
DSA-S3-V5	VAV SA	RD-LV	1100	18x16	36	4	6	17	26	30	26	18		[2]
DSA-S3-V7	VAV SA	RD-LV	550	14x14	60	8	13	24	30	36	28	20		
DSA-S3-V8	VAV SA	RD-LV	950	18x16	36	4	6	17	26	30	26	18		[2]
DSA-S3-V9	VAV SA	RD-LV	500	16x12	36									[2]
DSA-S3-V17	VAV SA	RD-LV	1000	18x16	36	5	10	16	17	20	18	16		
DSA-S4-V1	VAV SA	RD-LV	600	16x14	36	5	10	16	17	20	18	16		[2]
DSA-S4-V2	VAV SA	RD-LV	800	18x16	36	4	6	17	26	30	26	18		[2] /
DSA-S4-V3	VAV SA	RD-LV	600	16x14	36	5	10	16	17	20	18	16		[2]
DSA-S4-V5	VAV SA	RD-LV	1100	18x16	36	4	6	17	26	30	26	18		[2]
DSA-S4-V7	VAV SA	RD-LV	830	18X16	36	4	6	17	26	30	26	18		
DSA-S4-V8	VAV SA	RD-LV	950	18x16	36	4	6	17	26	30	26	18		ro1
DSA-S4-V14	VAV SA	RD-LV	1000	18x16	36	5	10	16	17	20	18	16		[2]
DSA-SG-21B	VAV EA	RFL-HV	2500	40x18	60	7	6	9	16	25	24	15		[1]
DSA-SG-L1-E	LAB GEX	RD-LV	2250	28x10	36	3	5	9	13 20	13	12 20	11 20		[1]
DSA-SG-L1-R DSA-SG-L1-S	FCU RA FCU SA	RD-LV RD-LV	1850 2500	24x10	60	5	15 17	20	27	20 30	30	30		[1], [2]
DSA-SG-L1-S DSA-SG-L3-E	LAB GEX	RD-LV RD-LV	2550	30x16 40x18	84 36	2	5	10	12	12	13	13		[3] [1]
DSA-SG-L3-R	FCU RA	RD-LV	1850	28x16	60	5	15	20	20	20	20	20		
DSA-SG-L3-R DSA-SG-L3-S	FCU RA	RD-LV RD-LV	2500	28x16 36x18	84	7	17	20	27	30	30	30		[1], [2] [2]
DSA-SG-L3-S DSA-SG-L7-E	LAB GEX	RD-LV RD-LV	1750	26x18	36	3	4	9	13	13	12	10		
DSA-SG-L7-E DSA-SG-L7-R	FCU RA	RD-LV RD-LV	1200	26x18 24x12	60	5	15	20	20	20	20	20		[1], [2] [1]
DSA-SG-L7-R DSA-SG-L7-S	FCU RA	RD-LV	1750	30x14	84	7	17	20	27	30	30	30		ניו
DSA-SG-L7-S DSA-SG-L9-E	LAB GEX	RD-LV	1750	24x14	36	3	4	8	13	14	11	9		[1], [2]
DSA-SG-L9-L DSA-SG-L9-R	FCU RA	RD-LV	1200	18x14	60	5	15	20	20	20	20	20		[1]
DSA-SG-L9-K	FCU SA	RD-LV	1750	38x14	84	7	17	20	27	30	30	30		ניז
DSA-SG-L9-5 DSA-SG-L10-E	LAB GEX	RD-LV	1750	24x14	36	3	4	8	13	14	11	9		[1], [2]
DSA-SG-L10-R	FCU RA	RD-LV	1200	18x14	60	5	15	20	20	20	20	20		[1], [2]
DSA-SG-L10-S	FCU SA	RD-LV	1750	26x14	84	7	17	20	27	30	30	30		[2]
DSA-SG-L11-E	LAB GEX	RD-LV	2550	30x20	36	3	4	8	13	15	14	10		[1], [2]
DSA-SG-L11-R	FCU RA	RD-LV	1900	26x16	60	5	15	20	20	20	20	20		[1], [3]
DSA-SG-L11-S	FCU SA	RD-LV	2500	44x16	84	7	17	20	27	30	30	30		[2]
DSA-SG-L12-E	LAB GEX	RD-LV	2150	32x20	36	2	5	10	12	12	13	13		<u>[-]</u> [1], [2]
DSA-SG-L12A-R	FCU RA	RD-LV	2250	22X20	60	5	15	20	20	20	20	20		[1], [2]
DSA-SG-L12A-S	FCU SA	RD-LV	2500	40x18	84	7	17	20	27	30	30	30		[2]
DSA-SG-L12B-R	FCU RA	RD-LV	2250	22X20	60	5	15	20	20	20	20	20		[1], [2]
DSA-SG-L12B-S	FCU SA	RD-LV	2500	40x18	84	7	17	20	27	30	30	30		
DSA-SG-V3	VAV SA	RD-LV	1000	18x12	36	3	5	12	21	24	19	14		
DSA-SG-V4	VAV SA	RD-LV	800	16x10	36	4	8	12	14	17	15	13		
DSA-SG-V5	VAV SA	RD-LV	900	18x12	36	3	5	12	21	24	19	14		
DSA-SG-V6	VAV SA	RD-LV	700	16x10	36	4	8	12	14	17	15	13		
DSA-SG-V7	VAV SA	RD-LV	900	18x12	36	3	5	12	21	24	19	14		
DSA-SG-V8	VAV SA	RD-LV	700	16x10	36	4	8	12	14	17	15	13		
DSA-SR-1E	AHU GEX	RFL-HV	27000	60x30	84	7	6	9	16	25	24	15		[1], [2]
DSA-SR-1R	AHU RA	RFL-HV	10400	72x48	84	7	6	9	16	25	24	15		[1]
DSA-SR-1S	AHU SA	RD-HV	37000	72x48	60	3	6	12	25	21	17	12		
DSA-SR-2EA	AHU GEX	RFL-HV	30000	60x40	84	7	6	9	16	25	24	15		[1]
DSA-SR-2EB	AHU GEX	RFL-HV	30000	36x16	84	7	6	9	16	25	24	15		[1]
DSA-SR-2R	AHU RA	RFL-HV	42500	96x36	84	7	6	9	16	25	24	15		[1]

TVDE				HEATING COIL PERFORMANCE								
TYPE	SIZE	CFM RANGE	NC RAD/DIS	MBH	LAT	GPM	PIPE SIZE	WPD (FT H20)				
А	06	45-400	21/17	15	85	1	3/4"	0.1				
В	08	90-700	22/20	27	85	2	3/4"	0.4				
С	10	145-1200	24/22	45	85	3	3/4"	0.8				
D	12	190-1600	24/21	61	85	4	3/4"	1.3				
Е	14	300-2200	22/17	63	85	6	1"	1.3				
F	24x16(40)	720-4000	32/27	130	85	8	1"	1.1				
				GENERAL NO	TES			•				
						RI STD 880 WITH NO						

HEATING COIL PERFORMANCE BASED ON MAXIMUM BOX CFM LISTED IN THE SCHEDULE. COIL CAPACITY BASED UPON 55°F ENTERING AIR TEMPERATURE, 150°F ENTERING WATER TEMPERATURE AND 30°F WATER TEMPERATURE DROP.

4. A BOX THAT HAS A '1' FOLLOWING THE TYPE, SUCH AS 'A1', INDICATES THAT THE VAV BOX DOES NOT CONTAIN A HEATING COIL.

5. LOWER VALUE OF CFM RANGE REFLECTS MINIMUM CONTROLLABLE AIRFLOW FOR BOD SIZE BOX.

		VAV BOX INDIVIDUAL		1:3\ CHEDULE	
BASIS OF DESIGN N	GENERAL NOTES MANUFACTURER: TITUS		[1] EXHAUST TYPE	SCHEDULE NOTES	
			[2] COOLING/HEATING	<u></u>	
			[4] INTERLOCK SUPPLY	X Y AND EXHAUST BOXES AND MODUL PLY TO EXHAUST OFFSET AS INDICA	ATE TO MAINTAIN ROOM SETPOINT,
				JPPIED AIRFLOW SETTINGS.	NED.
			[6] VALUES INDICATE NUNLESS NOTED OTHER	MIN CFM DURING OCCUPPIED MODE RWISE	, 20% OF MAX COOLING CFM,
TAG ID VAV-P1-1	<b>TYPE</b> C - 10"	MAX CFM [2] 600/300	MIN CFM [6]	SERVICE	REMARKS
VAV-P1-2 VAV-P1-3	D - 12" F - 16"	1200/600 2400/1200	430 750		A
VAV-P1-4 VAV-P1-5 VAV-P1-6	B - 8" B - 8" B - 8"	600/200 400/200 /1-3\500/250	190 190 190		/1-3
VAV-P1-7 VAV-P1-8	E - 14" D - 12"	2400/1200 800/400	550 430		
VAV-P1-9 VAV-P1-10 VAV-P1-12	E - 14" F - 16" F - 16"	1200/600 2700/1350 2400/1200	550 750 750		
VAV-P1-13 VAV-P1-14 VAV-P1-15	C - 10" E - 14" D - 12"	800/400 1800/900 1200/600	290 550 430		
VAV-P1-16 VAV-PG-1	F - 16" E - 14"	2400/1200 2000/1000	750 550		
VAV-PG-2 VAV-PG-3 VAV-PG-4	E - 14" E - 14" E - 14"	1500/750 2000/1000 1500/750	550 550 550		
VAV-PG-G VAV-S1-1	F - 16" A - 6"	400/200	750 100		NIC - DELETE FROM PROJECT
VAV-S1-2 VAV-S1-3 VAV-S1-4	A - 6" C - 10" C - 10"	150/75 800/400 800/400	100 290 290		
VAV-S1-5 VAV-S1-6 VAV-S1-7	B - 8" C - 10" A - 6"	450/225 720/250 /13 250/125	190 290 100		
VAV-S1-8 VAV-S1-9	C - 10" B - 8"	550/275 550/275	190 190		
VAV-S1-10 VAV-S1-11 VAV-S1-12	A - 6" C - 10" B - 8"	250/125 600/300 500/250	100 290 190	1-6	
VAV-S1-13 VAV-S1-14	B - 8" D - 12"	600/300 1200/600	190 430		
VAV-S1-15 VAV-S1-16 VAV-S1-17	D - 12" A - 6" A - 6"	1200/600 275/138 350/175	430 100 100		
VAV-S1-18 VAV-S1-19	A - 6" C - 10"	200/100 800/400	100 290		
VAV-S1-20 VAV-S1-21 VAV-S1-22A	B - 8" A - 6" C1 - 10"	500/250 250/125 800/NA	190 100 145		
VAV-S1-22B VAV-S1-23 VAV-S2-1	D1 - 12" C - 10" B - 8"	1415/NA 700/350 600/300	750 /1-3\ 290 190 [5]		
VAV-S2-2 VAV-S2-3	C - 10" B - 8"	800/400 600/300	290 190		1.3
VAV-S2-4 VAV-S2-5 VAV-S2-6	B - 8" C - 10" B - 8"	450/225 1100/550 550/275	190 290 190		
VAV-S2-7 VAV-S2-8	B - 8" C - 10"	550/275 950/475	190 290	1-6	
VAV-S2-9 VAV-S2-10 VAV-S2-11	B - 8" B - 8" D - 12"	500/250 400/200 1200/600	190 190 430	47	
VAV-S2-12 VAV-S2-13 VAV-S2-14	D - 12" D - 12" D - 12"	1200/600 1200/600 1200/600	430 430 430		
VAV-S2-15 VAV-S2-16A	B - 8" C1 - 10"	500/250 875/NA	190		
VAV-S2-16B VAV-S2-17 VAV-S2-19	C1 - 10" C - 10" C - 10"	1075/NA 1000/500 1100/550	550 /1-3 290 290 [5]		
VAV-S2-20 VAV-S3-1	B - 8" B - 8"	500/250 600/300	190 190		
VAV-S3-2 VAV-S3-3 VAV-S3-4	C - 10" B - 8" B - 8"	800/400 800/400 450/225	290 190 190		
VAV-S3-5 VAV-S3-6 VAV-S3-7	C - 10" B - 8" B - 8"	1100/550 550/275 650/325	290 190 190		
VAV-S3-8 VAV-S3-9	C - 10" B - 8"	950/475 500/250	290 190	1.6	
VAV-S3-10 VAV-S3-11 VAV-S3-12	B - 8" D - 12" D - 12"	600/300 1200/600 1200/600	190 430 430		
VAV-S3-13 VAV-S3-14 VAV-S3-15	D - 12" D - 12" B - 8"	1200/600 1200/600 500/250	430 430 190		
VAV-S3-16A VAV-S3-16B	C1 - 10" C1 - 10"	800/NA 1000/NA	145 500 1-3		
VAV-S3-17 VAV-S3-18 VAV-S3-19	C - 10" A - 6" C - 10"	1000/500 100/50 1100/550	290 100 [5] 290		
VAV-S3-20 VAV-S4-1	B - 8" B - 8"	500/250 600/300	190 190		
VAV-S4-2 VAV-S4-3 VAV-S4-4	C - 10" B - 8" B - 8"	800/400 600/300 450/225	290 190 190		
VAV-S4-5 VAV-S4-6 VAV-S4-7	C - 10" B - 8" C - 10"	1100/550 400/200 830/415	290 190 290		
VAV-S4-8 VAV-S4-9	C - 10" B - 8"	950/475 500/250	290 190	1-6	
VAV-S4-10 VAV-S4-11 VAV-S4-12	B - 8" B - 8" B - 8"	300/150 500/250 500/250	190 190 190	4 107	
VAV-S4-13A VAV-S4-13B VAV-S4-14	C1 - 10" C1 - 10" C - 10"	800/NA 1000/NA 1000/500	145 500 13 290		1-3
VAV-S4-16 VAV-SG-1A	C - 10" C1 - 10"	1000/500 800/400	290 [5] 145		1-3
VAV-SG-1B VAV-SG-2A VAV-SG-2B	C1 - 10" C1 - 10" C1 - 10"	1000/600 800/NA 1000/NA	145 145 1000		1-3
VAV-SG-3 VAV-SG-4	C - 10" C - 10"	1000/500 800/400	290 290 /500 [5]		
VAV-SG-5 VAV-SG-6 VAV-SG-7	C - 10" B - 8" C - 10"	900/450 700/350 900/450	290 190 290		1-3\
VAV-SG-8 VAV-SG-9A VAV-SG-9B	B - 8" E1 - 14" E1 - 14"	700/350 2000/NA 1800/NA	190 500 300		[4]
VAV-SG-10A VAV-SG-10B	C1 - 10" C1 - 10"	1000/NA 800/NA	345 145		[3], [4] /1-3\ [4] [3], [4]
VAV-SG-11 VAV-SG-12A VAV-SG-12B	B - 8" B - 8" A - 6"	800/400 550/275 225/100	190 150 100		
VAV-SG-12C VAV-SG-13	A - 6" B - 8"	125/75 800/400	75 190		
VAV-SG-14 VAV-SG-15 VAV-SG-16	B - 8" C1 - 10" E1 - 14"	500/250 300/150 2000/NA	190 100 2000 1-3		
VAV-SG-17 VAV-SG-18A VAV-SG-18B	B - 8" F1 - 24"x16" F1 - 24"x16"	600/300 2300/NA 2500/NA	190 720 920		13
VAV-SG-19A VAV-SG-19B	B - 8" B1 - 8"	400/200	190 0		
VAV-SG-20 VAV-SG-21A VAV-SG-21B	B - 8" F1 - 24"x16" F1 - 24"x16"	300/150 2300/NA 2500/NA	190 720 920		[4] [3], [4]
VAV-SG-22 VAV-SG-23	A - 6" B - 8"	100/50 600/300	100 190		r-n r-1
VAV-SG-24	A - 6"	200/100	100		



GOODYCLANCY Mitchell | Giurgola Architects, LLP

ARCHITECT: Mitchell | Giurgola Architects, LLP 630 Ninth Avenue, Suite 711 New York, New York 10036 212 663 4000 ARCHITECT: Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760 111 Devonshire St
Boston, Massachsetts
617-695-6700

MEP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

SITE | CIVIL ENGINEER:
BVH Integrated Services

50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

STRUCTURAL ENGINEER: ROBERT SILMAN ASSOCIATES LIGHTING SUSTAINABILITY CONSULTANT:
ATELIER TEN
195 Church Street, 10th Floor
New Haven, Connecticut 06510
203-777-1400

LANDSCAPE ARCHITECT
TOWERS|GOLDE LLC
85 WILLOW ST
NEW HAVEN CT 06511
203-773-1153 x322

CODE CONSULTANT

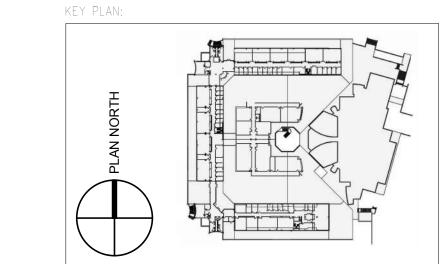
Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD ELKINS, NH 03233 603-526-6190

P.O. BOX216

SPECIFIC ATIONS:
WILSPEC LLC
LYNNFIELD MEDICAL OFFICE BUILDING
15 POST OFFICE SQUARE
LYNNFIELD, MA 01940
784-598-6789

CONSTRUCTION MANAGER
WHITING-TURNER CONSTRUCTION CO.
123 CHURCH STREE, 10TH FLOOR
NEW HAVEN, CT 06510
203-777-6783



NO.	DATE	COMMENTS
1-1	04/21/2017	ADDENDUM 1
1-3	05/05/2017	ADDENDUM 3
1-4	05/12/2017	ADDENDUM 4
1-6	08/11/2017	BULLETIN 6
1-10	11/02/2017	BULLETIN 10
1-11	10/26/2017	BULLETIN 11
1-19	02/08/2018	BULLETIN 19

GANT BUILDING
RENOVATIONS—STEM
PHASE 1

JECT NO: 9920	DATE: <b>04/03/2017</b>
ASE: 100% CONSTRUCTION DOCUMENTS	SC ALE:
WN BY: KLB	CHECKED BY: AV

**1-801-S** 

HVAC SCHEDULES

#901803

=e.		MECH	IANICAL EQUIPMENT SCHEDULE								MECH	HANICAL EQUIPMENT CIR	RCUITING SCHEDULE			
<u>ES:</u> ONNECT TO VFC(S) ASSC ONNECT TO MOTOR ECM EE ONE-LINE FOR CIRCUI		CHANICAL EQUIF	PMENT					CIRCUIT ID	VOLTS	PANEL		HOMERUN POLES CIRCUIT #	BRANCH CIRCUIT SIZE	SW/FUSE SIZE		MARKS
EFEED EXISTING EQUIPM IAINTAIN EXISTING EQUIP	IENT TO NEW POW MENT AND BRANC		ON EQUIPMENT					AC-2 AC-7 ACC-1	208 V 208 V 480 V	LPP-DC-1 LPP-DC-1 HPP-DC-1	100 A 100 A 20 A	3 3,5,7 3 4,6,8 3 8,10,12	(3)#2 & (1)#6 GND IN 1-1/4"C (3)#2 & (1)#6 GND IN 1-1/4"C (3)#10 & (1)#10 GND IN 3/4"C	100A/100A	0 VA 0 VA 0 VA	
ONNECT INDOOR UNIT TO ROVIDE SINGLE POINT PO ROVIDE 120V POWER CO	OWER CONNECTION  NNECTION TO CO	NTROL PANEL						ACC-2 ACC-3	480 V 480 V	HPP-DC-2 HPP-DC-1	20 A 20 A	3 13,15,17 3 13,15,17	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C	30A/15A	0 VA 0 VA	
XISTING EQUIPMENT, SEE	E FLOOR PLANS FO	OR SCOPE OF W	ORK			SCHEDI II E		ACC-4 ACC-5	480 V 480 V	HPP-DC-2 HPP-DC-1	20 A 20 A	3 14,16,18 3 14,16,18	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C	30A/15A	0 VA 0 VA	
TAG ID (EX)	VOLTAGE 208 V	PHASE	HP 1 HP 2 KW	MCA FI	LEVEL FIRST FLOOR	SCHEDULE NOTES [4] [9]		ACC-6  1-1 ACC-7	480 V 480 V	HPP-DC-2	20 A 20 A	3 19,21,23 3 20,22,24	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C	30A/10A	0 VA 0 VA	
(EX) DX CRAC(EX, INACTIVE)	208 V	3		FI	FIRST FLOOR FROUND FLOOR	[4] [9] [9]		AHU-P1-1-RFA-VFC AHU-P1-1-RFB-VFC AHU-P1-1-SFA-VFC	480 V 480 V 480 V	HPP-P1 HPP-P1	25 A 25 A 60 A	3 7,9,11 3 8,10,12 3 1,3,5	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C (3)#6 & (1)#6 GND IN 1"C	30A/17.5A 30A/17.5A 60A/45A	9141 VA 9141 VA 22437 VA	
DX-CRAC(EX, INACTIVE) 1 (EX)	480 V 480 V	3			ROUND FLOOR RIRST FLOOR	[9] [4] [9]		AHU-P1-1-SFB-VFC AHU-SR-1-EFA-VFC	480 V 480 V	HPP-P1 ES-HPP-SR-1	60 A 150 A	3 2,4,6 3 13,15,17	(3)#6 & (1)#6 GND IN 1"C (3)#1 & (1)#4 GND IN 1-1/2"C	60A/45A	22437 VA 22437 VA 54015 VA	
2 (EX) 3 (EX)	480 V 480 V	3		FI	FIRST FLOOR	[4] [9] [4] [9]		AHU-SR-1-EFB-VFC AHU-SR-1-RFA-VFC	480 V 480 V	ES-HPP-SR-1 ES-HPP-SR-1	150 A 25 A	3 14,16,18 3 7,9,11	(3)#1 & (1)#4 GND IN 1-1/2"C (3)#10 & (1)#10 GND IN 3/4"C		54015 VA 9141 VA	
4 (EX) 5 (EX) 6 (EX)	480 V 480 V 480 V	3		FI	FIRST FLOOR FIRST FLOOR	[4] [9] [4] [9]		AHU-SR-1-RFB-VFC AHU-SR-1-SFA-VFC	480 V 480 V	ES-HPP-SR-1 ES-HPP-SR-1	25 A 175 A	3 8,10,12 3 1,3,5	(3)#10 & (1)#10 GND IN 3/4"C (3)#1/0 & (1)#4 GND IN 1-1/2"C	30A/17.5A 200A/125A	9141 VA 63987 VA	
7 (EX) SR-1	480 V 480 V 208 V	3	56 (W)	FI	FIRST FLOOR ROOF	[4] [9] [4] [9]		AHU-SR-1-SFB-VFC AHU-SR-2-EFA-VFC	480 V 480 V	ES-HPP-SR-1 ES-HPP-SR-2	175 A 175 A	3 2,4,6 3 13,15,17	(3)#1/0 & (1)#4 GND IN 1-1/2"C (3)#1/0 & (1)#4 GND IN 1-1/2"C	200A/125A 200A/125A	63987 VA 63987 VA	
P1-1 P1-1-RFA-VFC	480 V 480 V	3 2	2@20 2@7.5 7.5	FI	FIRST FLOOR	[1]		AHU-SR-2-EFB-VFC AHU-SR-2-RFA-VFC	480 V 480 V	ES-HPP-SR-2	175 A 100 A	3 14,16,18 3 7,9,11	(3)#1/0 & (1)#4 GND IN 1-1/2"C (3)#3 & (1)#6 GND IN 1-1/4"C		63987 VA 33240 VA	
P1-1-RFB-VFC P1-1-SFA-VFC	480 V 480 V	3	7.5	FI	FIRST FLOOR			AHU-SR-2-RFB-VFC AHU-SR-2-SFA-VFC	480 V 480 V	ES-HPP-SR-2 ES-HPP-SR-2	100 A 300 A 300 A	3 8,10,12 3 1,3,5 3 24.6	(3)#3 & (1)#6 GND IN 1-1/4"C (3)#3/0 & (1)#3 GND IN 2"C	100A/70A 200A/200A	33240 VA 103044 VA 103044 VA	
P1-1-SFB-VFC SR-1	480 V 480 V	3 2	20 2@60 \ 2@7.5	FI	ROOF	[1]		AHU-SR-2-SFB-VFC BP-1 BP-2	480 V 480 V 480 V	ES-HPP-SR-2 HPP-SG-1 HPP-SG-1	20 A 50 A	3 2,4,6 3 13,15,17 3 19,21,23	(3)#3/0 & (1)#3 GND IN 2"C (3)#10 & (1)#10 GND IN 3/4"C /1-1 (3)#6 & (1)#8 GND IN 1"C	200A/200A 30A/15A 60A/35A	7978 VA 17451 VA	
SR-1-EFA-VFC SR-1-EFB-VFC	480 V 480 V	3 5	50 /1-1\	R	ROOF			BP-3 CRAC-1	480 V 480 V	HPP-SG-1 HPP-DC-1	50 A 7113 50 A	3 20,22,24 3 1,3,5	(3)#6 & (1)#8 GND IN 1"C (3)#2 & (1)#6 GND IN 1-1/4"C	60A/35A	17451 VA 0 VA	
SR-1-RFA-VFC SR-1-RFB-VFC	480 V 480 V	3	7.5 7.5	R	ROOF			CRAC-2 CRAC-3	480 V 480 V	HPP-DC-2 HPP-DC-1	125 A 125 A	3 1,3,5 3 2,4,6	(3)#2 & (1)#6 GND IN 1-1/4"C (3)#2 & (1)#6 GND IN 1-1/4"C	100A/100A	0 VA 0 VA	
SR-1-SFA-VFC -SR-1-SFB-VFC -SR-2	480 V 480 V 480 V	3 6	60 60 2@100 2@30 ∧	R	ROOF ROOF	[4]		CRAC-4 CRAC-5	480 V 480 V	HPP-DC-2 HPP-DC-1	125 A 125 A	3 2,4,6 3 7,9,11	(3)#2 & (1)#6 GND IN 1-1/4"C (3)#2 & (1)#6 GND IN 1-1/4"C	100A/100A	0 VA 0 VA	
SR-2-EFA-VFC SR-2-EFB-VFC	480 V 480 V	3 (	2@100	R	ROOF	[1]		CRAC-6 CRAC-7	480 V 480 V	HPP-DC-2 HPP-DC-2	50 A 50 A	3 7,9,11 3 8,10,12	(3)#6 & (1)#8 GND IN 1"C (3)#6 & (1)#8 GND IN 1"C	60A/50A	0 VA 0 VA	
SR-2-RFA-VFC SR-2-RFB-VFC	480 V 480 V	3 :	30	R	ROOF		-	CRAC-S4-A CRAC-S4-B	480 V 480 V	HPP-S4 HPP-S4	35 A 35 A 14	3 2,4,6 3 1,3,5	(3)#8 & (1)#8 GND IN 1"C (3)#8 & (1)#8 GND IN 1"C	30A/30A 1-4	9000 VA 9000 VA 1-1	
SR-2-SFA-VFC SR-2-SFB-VFC	480 V 480 V	3	100	R	ROOF			CU (EX) CU (EX) CU-ACUSR-1	208 V 208 V 208 V	LDP-P1 LDP-P1 LRP-S4-1	20 A 20 A 30 A /1-1	3 31,33,35 3 32,34,36 2 51,53	(3)#12 & (1)#12 GND IN 3/4"C (3)#12 & (1)#12 GND IN 3/4"C (2)#10 & (1)#10 GND IN 3/4"C	30A/5.6A	0 VA 0 VA 3816 VA	
EX)	120 V 120 V	1	^	G	GROUND FLOOR GROUND FLOOR		1-1	EF-P1-1 EHUM-SG-L1	120 V 480 V	LRP-P1-1 HPP-SG-1	20 A 20 A	1 14 3 2,4,6	(2)#12 & (1)#10 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C		500 VA 8000 VA	-/1-19
	480 V 480 V	3	2@3 <u>/1-1\</u> 3@5	G	GROUND FLOOR GROUND FLOOR	[7] [7]	_	EHUM-SG-L2 EHUM-SG-L3	480 V 480 V	HPP-SG-1 HPP-SG-1	20 A 20 A 20 A	3 7,9,11 3 8,10,12	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C	30A/12A 30A/20A	4000 VA 8000 VA	1-19
C-1(EX)	480 V 480 V	3 3	3@5	G	GROUND FLOOR GROUND FLOOR	[7] [4] [9]	-	EHUM-SG-L7 EHUM-SG-L9	480 V 480 V	HPP-SG-2 HPP-SG-2	20 A 20 A	3 19,21,23 3 20,22,24	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C	30A/17.5A 30A/17.5A	6000 VA 6000 VA	
C-2(EX) C-3(EX) C-4(EX)	480 V 480 V 480 V	3 3		G	GROUND FLOOR GROUND FLOOR GROUND FLOOR	[4] [9] [4] [9] [4] [9]	-	EHUM-SG-L10 EHUM-SG-L11	480 V 480 V	HPP-SG-2 HPP-SG-2	20 A 20 A	3 25,27,29 3 31,33,35	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C	30A/20A	6000 VA 8000 VA 1-11	
C-5(EX) C-6(EX)	480 V 480 V 480 V	3		G	GROUND FLOOR GROUND FLOOR	[4] [9] [4] [9] [4] [9]		EHUM-SG-L12A EHUM-SG-L12B	480 V 480 V	HPP-SG-2 HPP-SG-2	20 A 20 A	3 26,28,30 3 32,34,36	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	30A/20A	8000 VA 8000 VA	
C-7(EX) C-FUTURE	480 V 480 V	3		G G	GROUND FLOOR GROUND FLOOR	[4] [9] [4] [9]		FCU-P1-1 FCU-P1-2 FCU-P1-3	120 V 120 V 120 V	LRP-P1-1 LRP-P1-1 LRP-P1-1	20 A 20 A 20 A	1 19 1 21 1 2	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE 20A TOGGLE	1000 VA 1000 VA 1000 VA	
C-FUTURE C-FUTURE	480 V 480 V	3	1-1	G G	GROUND FLOOR GROUND FLOOR	[4] [9] [4] [9]		FCU-S1-1 FCU-S1-2	120 V 120 V 120 V	LRP-S1-1 LRP-S1-1	20 A 20 A 20 A	1 2 1 49 1 46	(2)#12 & (1)#12 GND IN 3/4°C (2)#12 & (1)#12 GND IN 3/4°C (2)#12 & (1)#12 GND IN 3/4°C	20A TOGGLE 20A TOGGLE 20A TOGGLE	1000 VA 1000 VA 1000 VA	
C-FUTURE C-FUTURE	120 V 120 V	1		G	GROUND FLOOR GROUND FLOOR	[4] [9] [4] [9]		FCU-S1-3 FCU-S2-1	120 V 120 V 120 V	LRP-S1-1 LRP-S2-1	20 A 20 A 20 A	1 40 1 47 1 11	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE 20A TOGGLE	1000 VA 1000 VA 1000 VA	
C-S4-1A C-S4-1B	480 V 480 V		3.6 9 3.6 9	F	OURTH FLOOR OURTH FLOOR	[ 41 FOT		FCU-S2-2 FCU-S3-1	120 V 120 V	LRP-S2-1 LRP-S3-1	20 A 20 A	1 12 1 58	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	1000 VA 1000 VA	
X) X) CUSR-1	208 V 208 V 208 V	3	3	FI	FIRST FLOOR FIRST FLOOR ROOF	[4] [9] [4] [9]	-	FCU-S3-2 FCU-S4-1	120 V 120 V	LRP-S3-1 LRP-S4-1	20 A 20 A	1 57 1 62	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	1000 VA 1000 VA	
I-1 <i>I</i> -SG-L1	120 V 480 V	1 3	3/4	FI	FIRST FLOOR BROUND FLOOR			FCU-S4-2 FCU-SG-1	120 V 120 V	LRP-S4-1 LRP-SG-1	20 A 20 A	1 61 1 22	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	1000 VA 1000 VA	
Л-SG-L2 Л-SG-L3	480 V 480 V	3	1-19 8	G	GROUND FLOOR GROUND FLOOR			FCU-SG-2 FCU-SG-3 FCU-SG-L1	120 V 120 V 120 V	LRP-SG-1 LRP-SG-1 LRP-SG-1	20 A 20 A 20 A	1 19 1 20 1 23	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE 20A TOGGLE	1000 VA 1000 VA 1500 VA	
Л-SG-L7 Л-SG-L9	480 V 480 V	3	6 (1)	G	GROUND FLOOR GROUND FLOOR			FCU-SG-L1 FCU-SG-L2 FCU-SG-L3	120 V 120 V 120 V	LRP-SG-3 LRP-SG-3	20 A 20 A 20 A	1 23 1 15 1 16	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE 20A TOGGLE	1500 VA 1200 VA 1500 VA	
1-SG-L10 1-SG-L11	480 V 480 V	3	6 8	G	GROUND FLOOR GROUND FLOOR	<u>-</u>		FCU-SG-L7 FCU-SG-L9	120 V 120 V 120 V	LRP-SG-6 LRP-SG-8	20 A 20 A 20 A	1 10 1 13 1 27	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE 20A TOGGLE	1500 VA 1500 VA 1500 VA	
1-SG-L12A 1-SG-L12B	480 V 480 V	3	8 8	G	GROUND FLOOR GROUND FLOOR		-	FCU-SG-L10 FCU-SG-L11	120 V 120 V	LRP-SG-9 LRP-SG-11	20 A 20 A	1 10 1 18	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	1500 VA 1500 VA	
P1-1 P1-2 P1-3	120 V 120 V 120 V	1 .	1/2 1/2 1/15	FI	FIRST FLOOR FIRST FLOOR FIRST FLOOR		1.1	FCU-SG-L12A FCU-SG-L12B	120 V 120 V	LRP-SG-13 LRP-SG-13	20 A 20 A	1 20 1 19	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	1500 VA 1500 VA	
51-3 S1-1 S1-2	120 V 120 V 120 V	1	1/15 1/60	FI	IRST FLOOR IRST FLOOR			FCU-SR-1 FCU-SR-2	120 V 120 V	LRP-S4-1 LRP-S4-1	20 A 20 A	1 66 1 63	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	1000 VA 1000 VA	
\$1-3 \$2-1	120 V 120 V	1 .	1/2 1/15	FI	FIRST FLOOR SECOND FLOOR			GMU-AHUP1 GMU-AHUSR1 GMU-AHUSR2	120 V 120 V 120 V	LRP-P1-1 LRP-S4-1 LRP-S4-1	20 A 20 A 20 A	1 25 1 65 1 64	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE	500 VA 500 VA 500 VA	
S2-2 S3-1	120 V 120 V	1	1/60 1/15	Si Ti	SECOND FLOOR THIRD FLOOR			HEPA-SG-2 HEPA-SG-L3	120 V 120 V 120 V	LRP-SG-4 LRP-SG-3	20 A 20 A 20 A	1 64 1 47 1 33	(2)#12 & (1)#12 GND IN 3/4°C (2)#12 & (1)#12 GND IN 3/4°C (2)#12 & (1)#12 GND IN 3/4°C	20A TOGGLE	500 VA 500 VA 500 VA	
S3-2 S4-1	120 V 120 V	1	1/60 1/15	F	HIRD FLOOR OURTH FLOOR			HEPA-SG-L11 HEPA-SR-L1A	120 V 120 V 120 V	LRP-SG-11 LRP-SG-2	20 A 20 A 20 A	1 35 1 35 1 38	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE	500 VA 500 VA 500 VA	
S4-2 SG-1	120 V 120 V	1	1/60 1/15	G	GROUND FLOOR		1-2	HEPA-SR-L1B HEPA-SR-L1C	120 V 120 V	LRP-SG-2 LRP-SG-2	20 A 20 A	1 39 1 40	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	500 VA 500 VA	
SG-2 SG-3 SG-L1	120 V 120 V 120 V	1	1/2 1/2 3/4	G	GROUND FLOOR GROUND FLOOR GROUND FLOOR		1-1	HEPA-SR-L9A HEPA-SR-L9B	120 V 120 V	LRP-SG-8 LRP-SG-8	20 A 20 A	1 34 1 35	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	500 VA 500 VA	
SG-L1 SG-L2 SG-L3	120 V 120 V 120 V	1	3/4 1/2 3/4	G	GROUND FLOOR GROUND FLOOR			HEPA-SR-L9C HEPA-SR-L9D	120 V 120 V	LRP-SG-8	20 A 20 A	1 33 1 31	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE	500 VA 1-1	
SG-L3 SG-L7 SG-L9	120 V 120 V 120 V	1 ;	3/4	G	GROUND FLOOR GROUND FLOOR		$\triangle$	HEPA-SR-L9E HEPA-SR-L9F HEPA-SR-L9G	120 V 120 V 120 V	LRP-SG-8 LRP-SG-8 LRP-SG-8	20 A 20 A 20 A	1 32 1 29 1 30	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE	500 VA 500 VA 500 VA	
SG-L10 SG-L11	120 V 120 V	1 1	3/4	G G	GROUND FLOOR GROUND FLOOR		<u> </u>	HEPA-SR-L10A HEPA-SR-L10B	120 V 120 V 120 V	LRP-SG-8 LRP-SG-9 LRP-SG-9	20 A 20 A 20 A	1 8 5	(2)#12 & (1)#12 GND IN 3/4°C (2)#12 & (1)#12 GND IN 3/4°C (2)#12 & (1)#12 GND IN 3/4°C	20A TOGGLE	500 VA 500 VA 500 VA	
SG-L12A SG-L12B	120 V 120 V	1 :	3/4	G	GROUND FLOOR GROUND FLOOR		1-3	HEPA-SR-L10C HEPA-SR-L10D	120 V 120 V 120 V	LRP-SG-9 LRP-SG-9	20 A 20 A 20 A	1 9 1 15	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE	500 VA 500 VA 500 VA	
SR-1 SR-2	120 V 120 V	1	1/15 1/15	R	ROOF ROOF			HEPA-SR-L12A HEPA-SR-L12B	120 V 120 V	LRP-SG-10 LRP-SG-10	20 A 20 A 20 A	1 18 1 19	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	500 VA 500 VA	
AHUP1 AHUSR1 AHUSR2	120 V 120 V 120 V	1	1/3 1/3	R	ROOF			HEPA-SR-L12C HEPA-SR-L12D	120 V 120 V	LRP-SG-10 LRP-SG-10	20 A 20 A	1 20 1 21	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	500 VA 500 VA	
AHUSR2 N-SR-L1A N-SR-L1B	120 V 120 V 120 V	. 1 1 1	1/3	G	GROUND FLOOR GROUND FLOOR			HEPA-SR-L12E HEPA-SR-L12F	120 V 120 V	LRP-SG-10 LRP-SG-10	20 A 20 A	1 22 1 44	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE	500 VA 500 VA	
1-SR-L1B 1-SR-L1C 1-SR-L3A	120 V 120 V 120 V	1		G	GROUND FLOOR GROUND FLOOR			HEPA-SR-L12G HWRP-1	120 V 208 V	LRP-SG-10 LRP-SG-1	20 A 20 A	1 23 2 61,63	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE	500 VA 1400 VA	
-SR-L4A -SR-L9A	120 V 120 V	1		G G	GROUND FLOOR GROUND FLOOR			HWRP-2 HWRP-3 LAC-1	208 V 208 V 480 V	LRP-SG-1 LRP-SG-1 HPP-SG-1	20 A 20 A 100 A	2 64,66 2 65,67 3 14,16,18	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C (3)#1/0 & (1)#4 GND IN 1-1/2"C	20A TOGGLE 20A TOGGLE 100A/70A	1400 VA 1400 VA 33240 VA	
-SR-L9B -SR-L9C	120 V 120 V	1		G G	GROUND FLOOR GROUND FLOOR			P-AHUP1A P-AHUP1B	208 V 208 V	LRP-P1-1 LRP-P1-1	20 A 20 A	2 24,26 2 20,22	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	1500 VA 1500 VA	
-SR-L9D -SR-L9E	120 V 120 V	1		G	GROUND FLOOR GROUND FLOOR			P-AHUSR1A-VFC P-AHUSR1B-VFC	480 V 480 V	ES-HPP-SR-1 ES-HPP-SR-1	20 A 20 A	3 19,21,23 3 20,22,24	(3)#12 & (1)#12 GND IN 3/4"C (3)#12 & (1)#12 GND IN 3/4"C	30A/8A 30A/8A	3989 VA 3989 VA	
SR-L9F SR-L9G SR-L10A	120 V 120 V 120 V	1		G	GROUND FLOOR GROUND FLOOR GROUND FLOOR			P-AHUSR2A-VFC P-AHUSR2B-VFC	480 V 480 V	ES-HPP-SR-2 ES-HPP-SR-2	20 A 20 A	3 20,22,24 3 19,21,23	(3)#10 & (1)#10 GND IN 3/4"C (3)#10 & (1)#10 GND IN 3/4"C	30A/12A	6316 VA 6316 VA	
-SR-L10A -SR-L10B -SR-L10C	120 V 120 V 120 V	1		G	GROUND FLOOR GROUND FLOOR			P-SG-1A-VFC P-SG-1B-VFC	480 V 480 V	ES-HPP-SG-2 ES-HPP-SG-2		3 1,3,5 4 3 2,4,6	(3)#3 & (1)#6 GND IN 1-1/4"C (3)#3 & (1)#6 GND IN 1-1/4"C		33240 VA /14\ 33240 VA	7
-SR-L10D -SR-L11A	120 V 120 V	1		G G	GROUND FLOOR GROUND FLOOR			P-SG-1C-VFC P-SG-2A-VFC P-SG-2B-VFC	480 V 480 V 480 V	ES-HPP-SG-2 HPP-SG-2 HPP-SG-2	100 A 125 A 125 A	3 7,9,11 3 1,3,5 3 2,4,6	(3)#3 & (1)#6 GND IN 1-1/4"C (3)#2 & (1)#6 GND IN 1-1/4"C (3)#2 & (1)#6 GND IN 1-1/4"C	100A/80A	33240 VA 43212 VA 43212 VA	
-SR-L12A -SR-L12B	120 V 120 V	1		G G	GROUND FLOOR GROUND FLOOR			P-SG-2B-VFC P-SG-2C-VFC P-SG-3A-VFC	480 V 480 V 480 V	HPP-SG-2 HPP-SG-2	125 A 125 A 50 A	3 2,4,6 3 7,9,11 3 8,10,12	(3)#2 & (1)#6 GND IN 1-1/4"C (3)#2 & (1)#6 GND IN 1-1/4"C (3)#6 & (1)#8 GND IN 1"C		43212 VA 43212 VA 17451 VA	
-SR-L12C -SR-L12D	120 V 120 V	1		G	GROUND FLOOR GROUND FLOOR			P-SG-3B-VFC P-SG-3C-VFC	480 V 480 V 480 V	HPP-SG-2 HPP-SG-2	50 A 50 A 50 A	3 13,15,17 3 14,16,18	(3)#6 & (1)#8 GND IN 1"C (3)#6 & (1)#8 GND IN 1"C	60A/35A 60A/35A	17451 VA 17451 VA 17451 VA	
-SR-L12E -SR-L12F	120 V 120 V	1		G	GROUND FLOOR GROUND FLOOR		-	RO-1 SEP-1	120 V 480 V	LRP-SG-1 HPP-SG-1	20 A 20 A	1 55 3 25,27,29	(2)#12 & (1)#12 GND IN 3/4"C (3)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 30A/3.2A	500 VA 1745 VA	
-SR-L12G P-1 P-2	120 V 208 V 208 V	2 2	2	G	GROUND FLOOR GROUND FLOOR GROUND FLOOR			SWH-1 CIRCULATOR SWH-1 CONTROLS	120 V 120 V	ES-LRP-SG-1 ES-LRP-SG-1	20 A 20 A	1 17 1 14	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE 20A TOGGLE	500 VA 500 VA	
2-2 2-3	208 V 208 V 480 V	- 2 2 3	2 2 2@15	G	GROUND FLOOR GROUND MEZZANINE	[7]		SWH-2 CIRCULATOR SWH-2 CONTROLS	120 V 120 V	ES-LRP-SG-1 ES-LRP-SG-1	20 A 20 A	1 16 1 12	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C	20A TOGGLE	500 VA 500 VA	
JP1A JP1B	208 V 208 V	2 2		FI	FIRST FLOOR FIRST FLOOR	r. 1	1-1	UPS EF-1 (EX) UPS EF-2 (EX)	120 V 120 V	LPP-DC-1	20 A 20 A	1 2	(2)#12 & (1)#12 GND IN 3/4"C (2)#12 & (1)#12 GND IN 3/4"C		500 VA 500 VA	
JSR1A JSR1A-VFC	480 V 480 V	3 3	3	R R	ROOF	[1]										
JSR1B JSR1B-VFC	480 V 480 V	3 3	3 3	R	ROOF	[1]	1-1									
JSR2A JSR2A-VFC JSR2R	480 V 480 V	3 3	5	R	ROOF ROOF	[1]	-									
JSR2B JSR2B-VFC 1A	480 V 480 V 480 V	3 3 3	5 5 30	R	ROOF BROUND FLOOR	[1]	-									
1A 1A-VFC 1B	480 V 480 V 480 V	3	30 30 30	G	GROUND FLOOR GROUND FLOOR	[1]										
1B-VFC 1C	480 V 480 V	3 3	30 30 ^	G G	GROUND FLOOR GROUND FLOOR	[1]										
-1C-VFC -2A	480 V 480 V	3 3	30 <u>/1-4</u> 40	G G	GROUND FLOOR GROUND FLOOR	[1]										
-2A-VFC -2B	480 V 480 V	3 4	40	G	GROUND FLOOR GROUND FLOOR	[1]										
-2B-VFC -2C	480 V 480 V	3 4	40 40	G	GROUND FLOOR GROUND FLOOR	[1]										
-2C-VFC -3A -3A-VFC	480 V 480 V 480 V	3	15 15	G	GROUND FLOOR GROUND FLOOR GROUND FLOOR	[1]										
-3A-VFC -3B -3B-VFC	480 V 480 V 480 V	3	15 15	G	GROUND FLOOR GROUND MEZZANINE	[1]										
-3C-VFC	480 V 480 V	3	15 15	G G	GROUND FLOOR GROUND MEZZANINE	[1]										
1	120 V 480 V		1/3	G G	GROUND FLOOR GROUND FLOOR											
-1	120 V 120 V	1		B	BASEMENT BASEMENT	[8]										
EF 1 (EX)	120 V	I			GROUND FLOOR GROUND FLOOR	[4[ [9] [4] [9]	_									

		LUMINAIRE SCHEDULE						
GENERAL	NOTES:							
	TO SPECIFICATIONS FOR LUMINAIRE SCH HALL BE BASED ON THE LUMINAIRE SCHEI	NAL REQUIRE	MENTS.					
<b>TYPE</b>	MANUFACTURER	FIXTURE DESCRIPTION	<b>VOLTS</b>	OUTPUT	KELVIN			
K1	COLUMBIA 'LCL SERIES OR MERCURY 'LW14' SERIES OR PHILIPS 'FSS' SERIES	CHAIN HUNG 4' INDUSTRIAL WRAP LUMINAIRE. STEEL HOUSING, ACRYLIC LENS, WHITE FINISH.	277 V	2500 LUMENS 25W	3500 K			
K1E	COLUMBIA 'LCL SERIES OR MERCURY 'LW14' SERIES OR PHILIPS 'FSS' SERIES	SAME AS LUMINAIRE TYPE 'K1' EXCEPT CONNECTED TO EMERGENCY POWER.	277 V	2500 LUMENS 25W	3500 K			
K2E	COLUMBIA 'LCL SERIES OR MERCURY 'LW14' SERIES OR PHILIPS 'FSS' SERIES	CHAIN HUNG 4' INDUSTRIAL WRAP LUMINAIRE. STEEL HOUSING, ACRYLIC LENS, WHITE FINISH. INTEGRAL BATTERY BACKUP.	277 V	2500 LUMENS 25W	3500 K			
K3	COLUMBIA 'LCL SERIES OR MERCURY 'LW14' SERIES OR PHILIPS 'FSS' SERIES	SURFACE MOUNTED 2' INDUSTRIAL WRAP LUMINAIRE. STEEL HOUSING, ACRYLIC LENS, WHITE FINISH.	277 V	2500 LUMENS 25W	3500 K			
K3E	COLUMBIA 'LCL SERIES OR MERCURY 'LW14' SERIES OR PHILIPS 'FSS' SERIES	SAME AS LUMINAIRE TYPE 'K3' EXCEPT CONNECTED TO EMERGENCY POWER	277 V	2500 LUMENS 25W	3500 K			
K4	COLUMBIA 'LCL SERIES OR MERCURY 'LW14' SERIES OR PHILIPS 'FSS' SERIES	SURFACE/WALL MOUNTED 4' INDUSTRIAL WRAP LUMINAIRE. STEEL HOUSING, ACRYLIC LENS, WHITE FINISH.	277 V	2500 LUMENS 25W	3500 K			
N1E	HUBBELL 'LNC2' SERIES OR LITHONIA 'DSXW1' SERIES	SAME AS LUMINAIRE TYPE 'N1' EXCEPT CONNECTED TO EMERGENCY POWER.	277 V	1500 LUMENS 17W	3500 K			
X1	SIGNTEX 'CRR' SERIES OR EVENLITE 'SOV' SERIES OR ISOLITE 'ELT' SERIES	RECESSED ARCHITECTURAL SINGLE FACE EDGE LIT UNIVERSAL MOUNTED EXIT LUMINAIRE. ALUMINUM HOUSING, RED LETTERING ON MIRRORED BACKGROUND, AND AC ONLY. SEE FLOOR PLANS FOR ARROW DESIGNATION.	277 V	LED				
X1			277 V					
X1-LP	SIGNTEX 'RPR' SERIES OR EVENLITE 'RZR' SERIES OR LITHONIA 'TLE' SERIES	RECESSED LOW PROXIMITY ALUMINUM EXIT LUMINAIRE. BRUSHED ALUMINUM FINISH WITH RED LETTERING, POLYCARBONATE SECURITY COVER, AND AC ONLY.	277 V	LED				
X1H	SIGNTEX 'CAE-72' SERIES OR ISOLITE 'ECT' SERIES	RECESSED ARCHITECTURAL SINGLE FACE EDGE LIT CEILING MOUNTED EXIT LUMINAIRE. ALUMINUM HOUSING, RED LETTERING ON MIRRORED BACKGROUND, AND AC ONLY. SEE FLOOR PLANS FOR ARROW DESIGNTATION. PROVIDE CONNECTICUT HANDICAP SYMBOL.	277 V	LED				
X2	SIGNTEX 'CRR' SERIES OR EVENLITE 'SOV' SERIES OR ISOLITE 'ELT' SERIES	SAME AS LUMINAIRE TYPE 'X1' EXCEPT DOUBLE FACE.	277 V	LED				
X3	SIGNTEX 'CRR' SERIES OR EVENLITE 'SOV' SERIES OR ISOLITE 'ELT' SERIES	RECESSED ARCHITECTURAL EDGE LIT WALL MOUNTED EXIT LUMINAIRE. ALUMINUM HOUSING, RED LETTERING ON MIRRORED BACKGROUND, AND AC ONLY. SEE FLOOR PLANS FOR ARROW DESIGNATION.	277 V	LED				
ХЗН	SIGNTEX 'CAE-72' SERIES OR ISOLITE 'ECT' SERIES	RECESSED ARCHITECTURAL EDGE LIT WALL MOUNTED EXIT LUMINAIRE. ALUMINUM HOUSING, RED LETTERING ON MIRRORED BACKGROUND, AND AC ONLY. SEE FLOOR PLANS FOR ARROW DESIGNTATION. PROVIDE CONNECTICUT HANDICAP SYMBOL.	277 V	LED				
X4	DUAL-LITE 'LX' SERIES OR EVENLITE 'TLX' SERIES OR ISOLITE 'RL' SERIES	WALL MOUNTED THERMOPLASTIC EXIT LUMINAIRE. WHITE FINISH WITH RED LETTERING AND AC ONLY. SEE FLOOR PLANS FOR ARROW DESIGNATION.	277 V	LED				

	FLOOR BOX SCHEDULE										
TAG											
ID	DESCRIPTION	MFR / MODEL SERIES	COVER MODEL	<b>POWER</b>	TELECOMM	A/V	COMMENTS				
FB-A	FLOOR BOX DEVICE WITH TELECOMM AND PREWIRED POWER	WIREMOLD EVOLUTION EFB45 SERIES	EFB45BT" (COLOR BY ARCHITECT)	(1) DOUBLE DUPLEX OUTLET	N/A	N/A	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION				
			•								

	POKE-THRU SCHEDULE												
TAG ID	DESCRIPTION	MFR / MODEL SERIES	COVER MODEL	POWER	TELECOMM	A/V	COMMENTS						
PT-A	POKE THRU DEVICE WITH PREWIRED POWER	WIREMOLD #RC4ATC	BLACK (BK)	(2) DOUBLE DUPLEX OUTLET	N/A	N/A							
PT-B	POKE THRU DEVICE WITH TELECOMM AND PREWIRED POWER	WIREMOLD #RC4ATC	BLACK (BK)	(1) DOUBLE DUPLEX OUTLET	SINGLE GANG	N/A	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION						

				FIELD	-WIRED MULTI	-OUTLET RACEWAY SC	HEDULE	
TACID	MATERIAL	001.00	RECEPT/	# OF OIDOUUTO	RACEWAY	TELE./DATA OUTLET	_	DEMARKO
TAG ID	MATERIAL	COLOR	SPACING	# OF CIRCUITS	SIZE	SPACING	CHANNELS	REMARKS
WW1	ALUMINIUM	GRAY	24"	SEE FLOOR PLANS		SEE TECHNOLOGY DWGS.	DUAL	
WW2	ALUMINIUM	GRAY	18"	SEE FLOOR PLANS		SEE TECHNOLOGY DWGS.	DUAL	
WW3	ALUMINIUM	GRAY	14"	SEE FLOOR PLANS		SEE TECHNOLOGY DWGS.	DUAL	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION
			<u>'</u>		-1			

		TABLE BOX SCHEDULE												
TAG ID	DESCRIPTION	MFR / MODEL SERIES	COVER MODEL	POWER	TELECOMM	A/V	COMMENTS							
ТВ-А	TABLE BOX PEDESTAL DEVICE WITH POWER	WATERSAVER MUTLIPLEX FIXTURES	SATIN ALUMINUM FINISH "SA"	(2) DOUBLE DUPLEX OUTLET	N/A	N/A	REFER TO ARCHITECTURAL ELEVATIONS FOR EXAC MOUNTING HEIGHT AND LOCATION. REFER TO EP SERIES DRAWINGS FOR FURTHER REQUIREMENTS AND LOCATIONS.							
TB-B	TABLE BOX PEDESTAL DEVICE WITH TELECOMM AND POWER	WATERSAVER MUTLIPLEX FIXTURES	SATIN ALUMINUM FINISH "SA"	(1) DUPLEX OUTLET	SINGLE GANG	N/A	REFER TO ARCHITECTURAL ELEVATIONS FOR EXAC MOUNTING HEIGHT AND LOCATION. REFER TO EP/TO SERIES DRAWINGS FOR FURTHER REQUIREMENTS AND LOCATIONS.							
TB-C	RECESSED, LIFTING TABLE BOX DEVICE WITH POWER	WIREMOLD	ALUMINUM FINISH	(2) DOUBLE DUPLEX OUTLET	N/A	N/A	REFER TO ARCHITECTURAL ELEVATIONS FOR EXAC MOUNTING HEIGHT AND LOCATION. REFER TO EP SERIES DRAWINGS FOR FURTHER REQUIREMENTS AND LOCATIONS.							

BRANCH CIRCUITS SCHEDULE 120 OR 277 VOLT, 1 PHASE, 2W. CIRCUITS

CIRCUIT BREAKER

20A-1P

2 #12 & 1 #12 GND. - 3/4"C.

30A-1P

2 #10 & 1 #10 GND. - 3/4"C.

40A-1P

2 #10 & 1 #10 GND. - 3/4"C. 2 #8 & 1 #10 GND. - 3/4"C. 2 #6 & 1 #10 GND. - 3/4"C. 208 VOLT, 1 PHASE, 2W. CIRCUITS 2 #12 & 1 #12 GND. - 3/4"C. 2 #10 & 1 #10 GND. - 3/4"C. 40A-2P 2 #10 & 1 #10 GND. - 3/4"C. 30A-2P\* 3 #10 & 1 #10 GND. - 3/4"C.

40A-2P\* 3 #10 & 1 #10 GND. - 3/4"C.

50A-2P\* 3 #8 & 1 #10 GND. - 3/4"C.

60A-2P\* 3 #6 & 1 #10 GND. - 3/4"C.

208 OR 480 VOLT, 3 PHASE, 3W. CIRCUITS

20A-3P 3 #12 & 1 #12 GND. - 3/4"C. 3 #10 & 1 #10 GND. - 3/4"C. 40A-3P 3 #10 & 1 #10 GND. - 3/4"C. 50A-3P 3 #8 & 1 #10 GND. - 3/4 °C. 60A-3P 3 #6 & 1 #10 GND. - 3/4 °C. 208Y/120 & 480/277 VOLT, 3 PHASE, 4W. CIRCUITS 20A-3P\* 4 #12 & 1 #12 GND. - 3/4 °C. 4 #10 & 1 #10 GND. - 3/4"C 4 #10 & 1 #10 GND. - 3/4"C. 4 #8 & 1 #10 GND. - 1"C. 60A-3P\* 4 #6 & 1 #10 GND. - 1"C. . ALL BRANCH CIRCUIT SIZES ARE BASED ON RACEWAY LENGTH OF 65 FEET FOR 120 VOLT BRANCH CIRCUITS AND 150 FEET FOR 277 VOLT BRANCH CIRCUITS. IF LENGTH EXCEEDS 65 FEET (120 VOLT CIRCUITS) OR 150 FEET (277 VOLT CIRCUITS) THEN USE WIRE SIZE DENOTED BELOW AND INCREASE RACEWAY ACCORDINGLY. REDUCE LARGE CABLE SIZES IN JUNCTION BOX PRIOR TO DEVICE TERMINATION. PROVIDE WIRE REDUCERS AT BREAKERS WHEN REQUIRED. CIRCUIT LENGTH WIRE SIZE 120V CIRCUIT 277V CIRCUIT

#10 65 FT. TO 120 FT. 150 FT. TO 240 FT.

#8 120 FT. TO 180 FT. ABOVE 240 FT.

#6 ABOVE 180 FT. -TYPE MC CABLE SHALL INCLUDE FULL SIZE INSULATED GROUND CONDUCTOR. SIZES AS INDICATED IN SCHEDULE. 3. REFER TO PANELBOAD SCHEDULES ON DWGS E704-E706 FOR BREAKER SIZE REQUIREMENTS



STRUCTURAL ENGINEER: ROBERT SILMAN ASSOCIATES GOODYCLANCY Mitchell | Giurgola Architects, LLP 111 Devonshire St

ARCHITECT: Mitchell | Giurgola Architects, LLP 630 Ninth Avenue, Suite 711 New York, New York 10036 212 663 4000

ARCHITECT: Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760

Bloomfield, Connecticut 06002

New Haven, Connecticut 06510 Boston, Massachsetts 617-695-6700 203-777-1400 MEP ENGINEER: BVH Integrated Services 85 WILLOW ST 50 Griffin Road South NEW HAVEN CT 06511 Bloomfield, Connecticut 06002 203-773-1153 x322 860-286-9171 CODE CONSULTANT SITE | CIVIL ENGINEER: Philip.R. SHERMAN, P.E. BVH Integrated Services P.O. BOX216 50 Griffin Road South

860-286-9171

LIGHTING SUSTAINABILITY CONSULTANT: ATELIER TEN

195 Church Street, 10th Floor

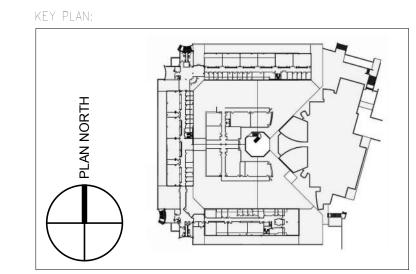
LANDSCAPE ARCHITECT

444 WILMOT CENTER ROAD

ELKINS, NH 03233 603-526-6190

TOWERS|GOLDE LLC

SPECIFICATIONS: WILSPEC LLC LYNNFIELD MEDICAL OFFICE BUILDING 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 CONSTRUCTION MANAGER WHITING-TURNER CONSTRUCTION CO. 123 CHURCH STREE, 10TH FLOOR NEW HAVEN, CT 06510 203-777-6783



ISSUE/R	EVISION:		PRO
NO.	DATE	COMMENTS	G
1-1	04/21/2017	ADDENDUM 1	_
1-2	04/28/2017	ADDENDUM 2	R
1-3	05/05/2017	ADDENDUM 3	
1-4	05/12/2017	ADDENDUM 4	DI
1-4	05/12/2017	ADDENDUM 4 WRITTEN CHANGES	<u> </u>
1-11	10/26/2017	BULLETIN 11	
1-19	02/08/2018	BULLETIN 19	

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GANT BUILDING RENOVATIONS-STEM PHASE 1

ELECTRICAL SCHEDULES	
PROJECT NO: 9920	DATE: 04/03/2017
PHASE: 100% CONSTRUCTION DOCUMENTS	SC ALE: 12" = 1'-0"

CHECKED BY: AV

DRAWN BY: LEM

**BULLETIN No: 020** 

SUBJECT: Electrical Clarifications (Elevator Feeders & Panelboards)

⊠Owner: UConn/ Michael Lombardi

Xarchitect: GCA/ Geoffrey Meier, MG/ Jill Wendorff

Consultant: BVH/ Alan Vanags

Construction Manager: Whiting Turner/ Kevin Seidensticker

PROJECT: Gant Renovations - STEM, Phase 1 Date: February 8, 2018

University of Connecticut

TO: By email to: The Whiting-Turner Contracting Company

195 Church Street, 10th Floor New Haven, Connecticut 06510

ATTN: Kevin Seidensticker CONTRACT FOR: Gant Phase 1

### **ORIGIN:**

To coordinate with the selected and submitted elevator manufacture's requirements the electrical feeder and breaker sizes are being updated accordingly.

### SCOPE:

### Part 1 - Electrical (See Descriptions & Attachments)

- 1. Drawing Revisions
  - a. Description:
    - i. E-100U-S, Revised the 4.16kV and the (2) 15kV conduit ductbanks.
    - ii. E-500-S, Revised grounding conductor sizes for 840A service in feeder sizing chart.
    - iii. E-710-S, Revised elevator schedule.
    - iv. E-801-S, Revised elevator circuit breaker size (and spare c/b size) in panelboard schedule ES-HDP-SG.

**UCONN PROJECT NO:** 

ARCHITECT'S PROJECT NO:

901803

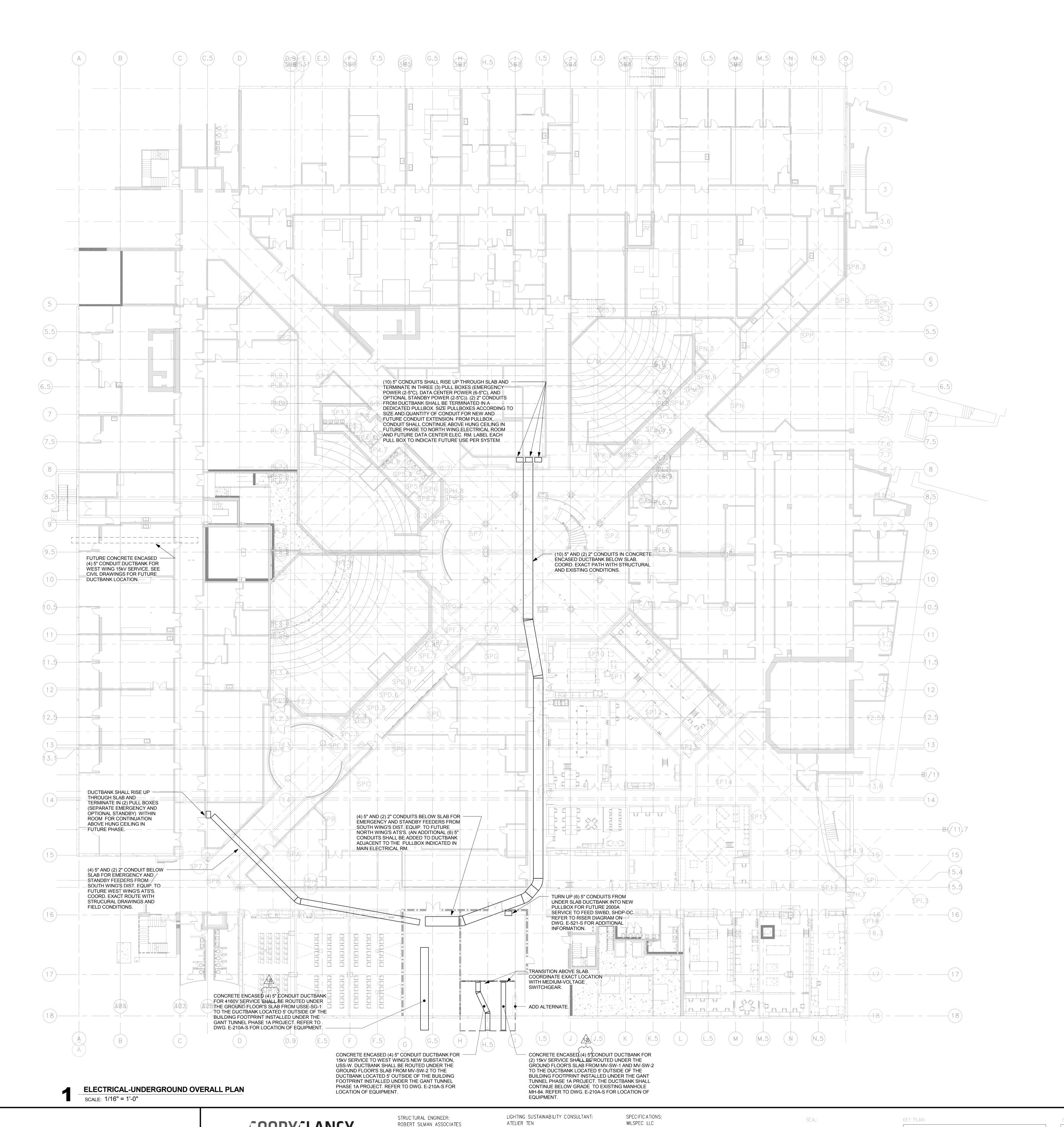
9920

- v. E-803-S, Added missing panelboard schedule EC-HLP-SG.
- b. Attachments:
  - i. E-100U-S
  - ii. E-500-S
  - iii. E-710-S
  - iv. E-801-S
  - v. E-803-S

### End of Bulletin 020

Issued by:		
•		
Geoffrey Meier		

Goody, Clancy & Associates, Inc.



195 Church Street, 10th Floor

New Haven, Connecticut 06510

LANDSCAPE ARCHITECT

TOWERS|GOLDE LLC

NEW HAVEN CT 06511

203-773-1153 x322

CODE CONSULTANT

ELKINS, NH 03233

603-526-6190

P.O. BOX216

Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD

203-777-1400

85 WILLOW ST

**ELECTRICAL POWER NOTES** 

- COORDINATE ALL WALL/CEILING/FLOOR MOUNTED ELECTRICAL DEVICE QUANTITIES, LOCATIONS, AND HEIGHTS WITH ARCHITECTURAL, AV, AND TD DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ARCHITECT, FURNITURE VENDOR, AND AV/TD CONTRACTORS PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONDUIT, CABLE SUPPORT SYSTEMS, AND BACK BOXES FOR LOW VOLTAGE SYSTEMS. REFER TO AV AND TD SERIES DRAWINGS FOR REQUIREMENTS.
- 3. REFER TO FLOOR MOUNTED DEVICE SCHEDULE ON DWG. E-800-S FOR FLOOR BOX AND POKE THRU SPECIFICATIONS
- 4. REFER TO DRAWING E-000-S FOR SYMBOL LEGEND, ABBREVIATIONS AND GENERAL PROJECT NOTES.
- 5. REFER TO RACEWAY SCHEDULE ON DWG E-800-S FOR MULTI-OUTLET RACEWAY ASSEMBLY SPECIFICATIONS.
   6. PROVIDE WIREWAY ABOVE EACH RESEARCH LAB PANELBOARD FOR BRANCH CIRCUITS.
- 7. ALL CONDUIT AND CONDUIT ROUTING SHOWN ON FLOOR PLANS IS DIAGRAMMATIC ONLY. COORDINATE EXACT LOCATIONS IN FIELD WITH ARCHITECTURAL AND STRUCTURAL ELEMENTS, MECHANICAL, PLUMBING, FIRE PROTECTION AND TELE/DATA SYSTEMS.
- PROTECTION AND TELE/DATA SYSTEMS.

  8. 

  XXX

  DESIGNATES LAB EQUIPMENT. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND LAB USER AND EXACT LOCATION/MOUNTING HEIGHT WITH LAB USER AND ARCHITECT PRIOR TO ROUGH-IN.
- 9. ALL RECESSED PANELS LOCATED OUTSIDE MAIN ELECTRICAL ROOM SHALL BE PROVIDED WITH (2) TWO 3/4" EMPTY CONDUITS FOR FUTURE BRANCH CIRCUITS.

REFER TO SCHEDULES ON DRAWING #E-810-S AND #E-811-S FOR ADDITIONAL INFORMATION.

- 10. NOT ALL LAB EQUIPMENT HAS BEEN DESIGNATED WITH LAB EQUIPMENT TAG OR INDICATED ON ELEC. FLOOR PLAN. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LAB LAYOUT WITH ARCHITECTURAL DRAWINGS AND ARCHITECT AND LAB USER IN FIELD.
- 11. ALL SPECIALITY OUTLETS INDICATED ON FLOOR PLAN SHALL BE COORDINATED WITH LAB USER AS IT RELATES TO LOCATION AND POWER REQUIREMENTS.
- 12. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FINAL CONNECTION BETWEEN EQUIPMENT AND POWER SOURCE, IE FROM DISCONNECT SWITCH, SPECIAL RECEPTACLE, ETC.

PROJECT:
GANT BUILDING

RENOVATIONS-STEM

PHASE 1

OPYRIGHT © 2016 MITCHELL | GIURGOLA ARCHITECTS COPYRIGHT © 2016 GOODY CLANCY & ASSOCIATES, II LL DIMENSIONS & EXISTING CONDITIONS SHALL BE CHECKED & VERIFIED BY CONTRACTOR BEFORE PROCEEDING WITH WORK ELECTRICAL UNDERGROUND PLAN

PROJECT NO: 9920

DATE: 04/03/2017

PHASE: 100% CONSTRUCTION DOCUMENTS SCALE: As indicated

DRAWN BY: SG

CHECKED BY: AV

E-100U-S

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UNIVERSITY OF CONNECTICUT

GOODYCLANCY
Mitchell | Giurgola Architects, LLP

ARCHITEC T:

212 663 4000

Mitchell | Giurgola Architects, LLP

630 Ninth Avenue, Suite 711

New York, New York 10036

ARCHITECT:
Goody Clancy
420 Boylston St.
Boston, MA 02116
617 262 2760

MEP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

SITE | CIVIL ENGINEER:
BVH Integrated Services

111 Devonshire St

Boston, Massachsetts

50 Griffin Road South

860-286-9171

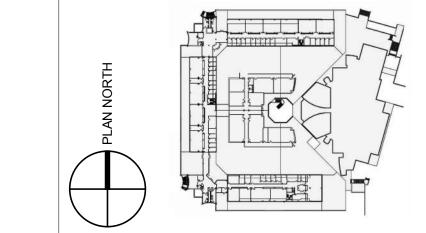
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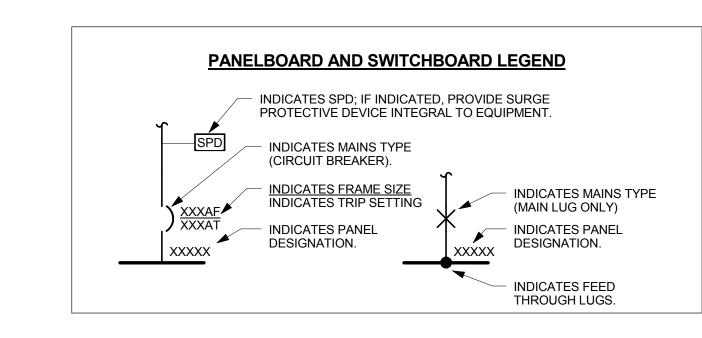
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LYNNFIELD, MA 01940
784-598-6789

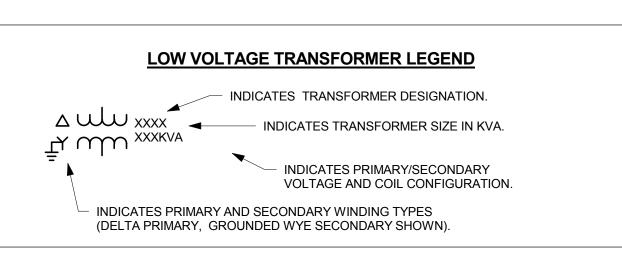
CONSTRUCTION MANAGER
WHITING-TURNER CONSTRUCTION CO.
123 CHURCH STREE, 10TH FLOOR
NEW HAVEN, CT 06510
203-777-6783

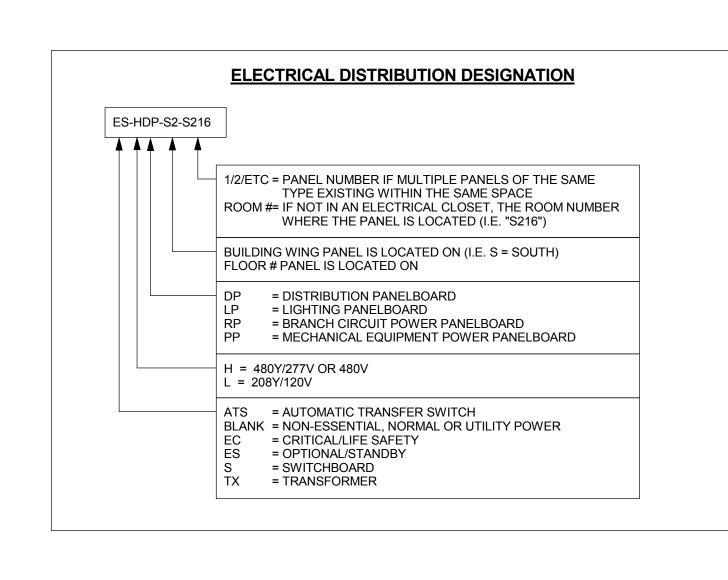
LYNNFIELD MEDICAL OFFICE BUILDING

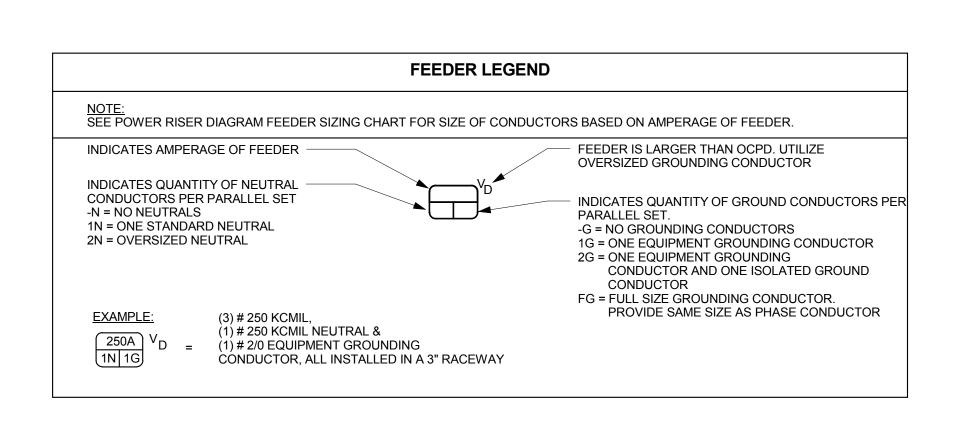












		T	RANSFOR	RMER SIZING	CHART			
	VOI	LTAGE		FEEDER		O.C.P.D.	(AMPS)	GROUNDING
KVA RATING	PRIMARY	SECONDARY	PRIMARY	SECONDARY	K RATED SEC.	PRIMARY	SECONDARY	ELECTRODE (AWG)
15	480 △	208Y/120	30A -N 1G	50A 1N 1G	50A 2N 1G	30	50	8
30	480 △	208Y/120	60A -N 1G	100A 1N 1G	100A 2N 1G	60	100	6
45	480 △	208Y/120	80A -N 1G	150A 1N 1G	150A 2N 1G	80	150	4
75	480 △	208Y/120	125A -N 1G	250A 1N 1G	250A 2N 1G	125	225	2
112.5	480 △	208Y/120	200A -N 1G	420A 1N 1G	420A 2N 1G	200	350	1/0
150	480 △	208Y/120	300A -N 1G	500A 1N 1G	500A 2N 1G	300	500	2/0
225	480 △	208Y/120	400A -N 1G	840A 1N 1G	840A 2N 1G	400	800	3/0
300	480 △	208Y/120	500A -N 1G	1000A 1N 1G	1000A 2N 1G	500	1000	3/0
500	480 △	208Y/120	800A -N 1G	1600A 1N 1G	1600A 2N 1G	800	1600	3/0
750	480 △	208Y/120	1000A -N 1G	2500A 1N 1G	2500A 2N 1G	1000	2500	3/0

NOTES:

1. ALL TRANSFORMERS LISTED ABOVE ARE THREE PHASE VENTILATED TYPE.

- PROVIDE MAIN O.C.P.D. ON PRIMARY AND SECONDARY SIDE OF EACH TRANSFORMER. CONNECT GROUNDING ELECTRODE CONDUCTOR TO NEAREST STRUCTURAL STEEL & TO NEAREST METALLIC COLD WATER PIPE, PER NEC.
- PROVIDE PRIMARY AND SECONDARY FEEDERS FOR TRANSFORMERS AS LISTED ABOVE.

	NUMBER OF	PHASE	NEUTRAL CO	NDUCTOR(S)	GROU	NDING CONDUCT	OR(S)	RACEWAY		NUMBER OF	PHASE	NEUTRAL CO	NDUCTOR(S)	GROUNI	DING CONDUCTO	R(S)	RACEWAY
AMPERAGE	PARALLEL SETS	CONDUCTOR(S)	STANDARD	OVERSIZED	EQUIPMENT	ISOLATED	OVERSIZED	SIZE	AMPERAGE	PARALLEL SETS	CONDUCTOR(S)	STANDARD	OVERSIZED	EQUIPMENT	ISOLATED	OVERSIZED	SIZE
20 or 30	1	(3) # 10	(1) # 10	(1)#8	(1) # 10	(1) # 10	8	1"	400	1	(3) # 500	(1) # 500	(2) # 350	(1) # 3	(1)#3	3/0	4"
40 or 50	1	(3) # 8	(1) # 8	NA	(1) # 10	NA	8	1"	420	1	(3) # 600	(1) # 600	(2) # 350	(1) # 2	(1)#2	3/0	4"
60	1	(3) # 6	(1)#6	(1) # 3	(1) # 10	(1) # 10	8	1 1/4"	450	2	(3) # 4/0	(1) # 4/0	(2) # 2/0	(1) # 2	(1)#2	3/0	3"
70	1	(3) # 4	(1) # 4	NA	(1)#8	NA	8	1 1/4"	500	2	(3) # 250	(1) # 250	(2) # 3/0	(1) # 2	(1) # 2	3/0	3"
80	1	(3) # 4	(1) # 4	NA	(1)#8	NA	6	1 1/4"	600	2	(3) # 350	(1) # 350	(2) # 4/0	(1) # 1	(1) # 1	4/0	4"
90	1	(3) # 3	(1) # 3	NA	(1)#8	NA	6	1 1/2"	700	2	(3) # 500	(1) # 500	(2) # 300	(1) # 1/0	(1) # 1/0	4/0	4"
100	1	(3) # 2	(1) # 2	(1) # 1/0	(1) # 8	(1) # 8	4	1 1/2"	800	2	(3) # 500	(1) # 500	(2) # 350	(1) # 1/0	(1) # 1/0	250	4"
									840	2	(3) # 600	(1) # 600	(1) # 350	(1) # 2/0	(1) # 2/0	250	} 4"
110	1	(3) # 2	(1) # 2	(1) # 2/0	(1)#6	(1)#6	3	2"	1000	3	(3) # 500	(1) # 500	(2) # 500	(1) # 2/0	N.A. 1-20	500	4"
125	1	(3) # 1	(1) # 1	(1) # 3/0	(1)#6	(1)#6	2	2"	1200	4	(3) # 500	(1) # 500	(2) # 500	(1) # 3/0	N.A.	500	4"
150	1	(3) # 1/0	(1) # 1/0	(1) # 4/0	(1)#6	(1)#6	2	2"	1600	5	(3) # 500	(1) # 500	(2) # 500	(1) # 4/0	N.A.	500	4"
175	1	(3) # 2/0	(1) # 2/0	(1) # 300	(1)#6	(1)#6	1	2 1/2"	2000	6	(3) # 500	(1) # 500	N.A.	(1) # 250	N.A.	500	4"
200	1	(3) # 3/0	(1) # 3/0	(2) # 1/0	(1)#6	(1)#6	1	2 1/2"	2500	7	(3) # 500	(1) # 500	N.A.	(1) # 350	N.A.	500	4"
225	1	(3) # 4/0	(1) # 4/0	(2) # 2/0	(1)#4	(1) # 4	1/0	3"	3000	8	(3) # 500	(1) # 500	N.A.	(1) # 400	N.A.	500	4"
250	1	(3) # 250	(1) # 250	(2) # 3/0	(1)#4	(1) # 4	2/0	3"	3200	9	(3) # 500	(1) # 500	N.A.	(1) # 500	N.A.	500	4"
300	1	(3) # 350	(1) # 350	(2) # 4/0	(1)#4	(1) # 4	2/0	4"	3600	10	(3) # 500	(1) # 500	N.A.	(1) # 500	N.A.	500	4"
350	1	(3) # 400	(1) # 400	(2) # 300	(1) # 3	(1) # 3	3/0	4"	4000	11	(3) # 500	(1) # 500	N.A.	(1) # 500	N.A.	500	4"

LICCONNECTICUT

GOODYCLANCY Mitchell | Giurgola Architects, LLP

ARCHITECT:
Mitchell | Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, New York 10036
212 663 4000

ARCHITECT: Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760 STRUCTURAL ENGINEER:
ROBERT SILMAN ASSOCIATES
111 Devonshire St
Boston, Massachsetts
617-695-6700

MEP ENGINEER:
BVH Integrated Services
50 Griffin Road South
Bloomfield, Connecticut 06002
860-286-9171

SITE | CIVIL ENGINEER:

BVH Integrated Services

Bloomfield, Connecticut 06002

50 Griffin Road South

860-286-9171

LIGHTING SUSTAINABILITY CONSULTANT:
ATELIER TEN
195 Church Street, 10th Floor
New Haven, Connecticut 06510
203-777-1400

LANDSC APE ARCHITECT
TOWERS|GOLDE LLC
85 WILLOW ST
NEW HAVEN CT 06511
203-773-1153 x322

CODE CONSULTANT

ELKINS, NH 03233

603-526-6190

P.O. BOX216

Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD

SPECIFICATIONS:
WILSPEC LLC
LYNNFIELD MEDICAL OFFICE BUILDING
15 POST OFFICE SQUARE
LYNNFIELD, MA 01940
784-598-6789

CONSTRUCTION MANAGER
WHITING-TURNER CONSTRUCTION CO.
123 CHURCH STREE, 10TH FLOOR

NEW HAVEN, CT 06510

203-777-6783

SEAL:

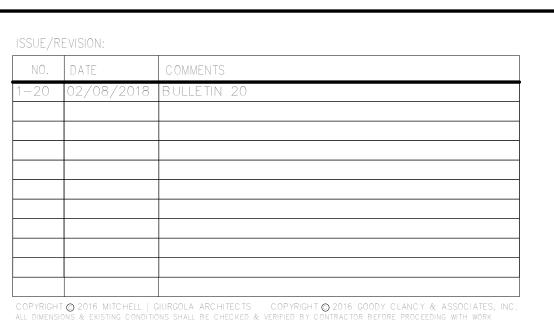
KEY PLAN:

HION CO.
FLOOR

ALL CONDUCTORS LISTED ABOVE ARE THHN/THWN, COPPER.

CONTRACTOR MAY ELECT TO INCREASE SIZE OF CONDUCTORS LISTED ABOVE IF THERE IS NO INCREASE IN COST. INCREASE SIZE OF RACEWAY PER CODE AS REQUIRED.

PROVIDE AUXILIARY LUGS AND OVERSIZED GUTTERS IN DISTRIBUTION EQUIPMENT TO ACCOMMODATE OVERSIZED CONDUTORS.



GANT BUILDING
RENOVATIONS—STEM
PHASE 1

DRAWING TITLE:

ELECTRICAL RISER SYMBOLS AND NOTES

PROJECT NO: 9920

DATE: 04/03/2017

PHASE: 100% CONSTRUCTION DOCUMENTS SCALE: As indicated

DRAWN BY: LEM

CHECKED BY: AV

-500-3

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## **ELEVATOR SCHEDULE GENERAL NOTES:** SEE ELEVATOR DETAILS. FUSES SIZED PER ELEVATOR MANUFACTURER'S RECOMMENDATIONS. PROVIDE BRANCH CIRCUIT FROM ELEVATOR SHUNT TRIP SWITCH TO ELEVATOR CONTROLLER, SAME SIZE AS CONTROLLER BRANCH CIRCUIT SIZE LISTED BELOW. 4. TERMINATE EACH 20 AMP HOMERUN IN A 30 AMP SAFETY SWITCH LOCATED IN THE ELEVATOR MACHINE ROOM OR CLOSET. 5. PROVIDE A LOCKING CLIP ON EACH BRANCH CIRCUIT BREAKER. CONTROLLER BRANCH CIRCUIT SIZE ITEM#

| ELEV-1 | 25 | 34 | \cdot 460 | 80A-3P } ES-HDP-SG (3)#4 & (1)#4 GND - 1 1/4"C ELEVATOR CONTROLLER ITEM# <u>NOTES</u> 20A-1P ES-LRP-SG-1 20A-1P ES-LRP-SG-1 20A-1P ES-LRP-SG-1

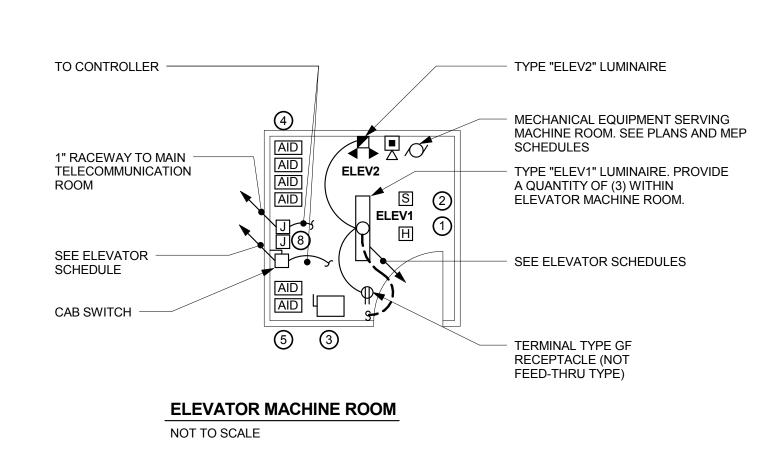
A. PROVIDE CONTROL WIRING FROM EACH ELEVATOR TO STANDBY ATS.

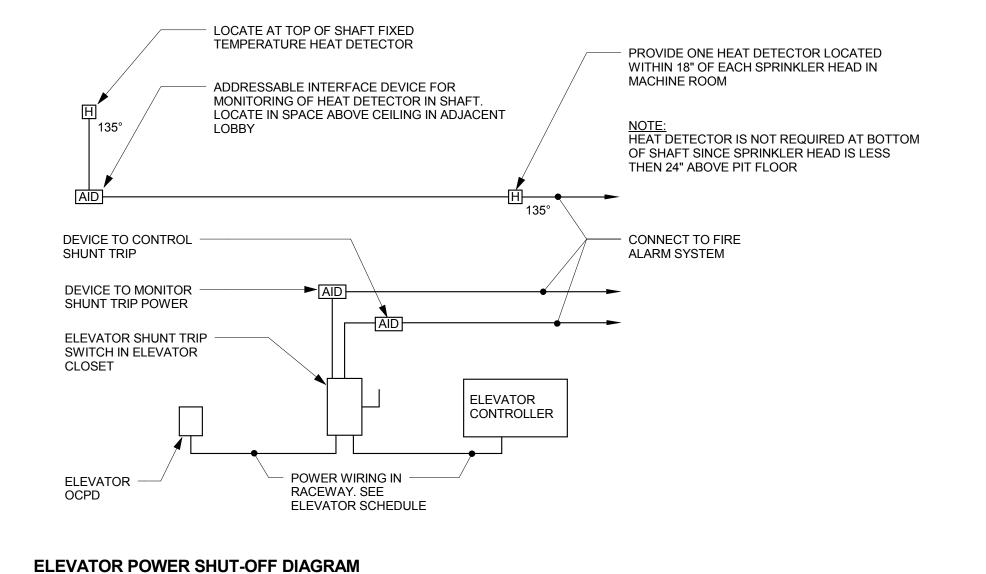
B. FUTURE ELEVATOR. PROVIDE EMPTY RACEWAY FROM PANELBOARD TO ELEVATOR MACHINE ROOM. TERMINATE RACEWAY ADJACENT TO ELEVATOR SHUNT TRIP SWITCH.

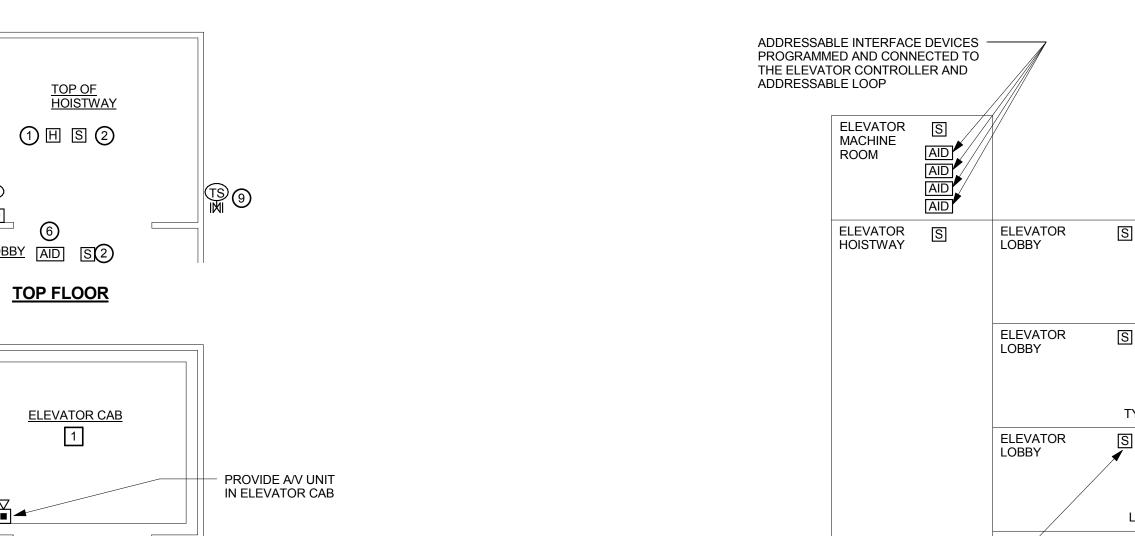
# DRAWING NOTES

- MOUNT A HEAT DETECTOR WITHIN 18" OF EACH SPRINKLER HEAD. CONNECT HEAT DETECTORS AND ADDRESSABLE INTERFACE DEVICE AS SHOWN ON ELEVATOR POWER SHUT-OFF DIAGRAM.
- CONNECT SMOKE DETECTOR AS SHOWN ON FIRE ALARM RISER DIAGRAM.
- ELEVATOR SHUNT TRIP SWITCH. LOCATE SWITCH ONE FOOT FROM DOOR FRAME. SEE ELEVATOR SCHEDULE FOR SIZE OF SWITCH AND BRANCH CIRCUIT.
- FIRE ALARM ADDRESSABLE INTERFACE DEVICE (4 TOTAL). CONNECT TO CONTROLLER. SEE FIRE ALARM RISER & ELEVATOR FIRE RECALL DETAIL.
- FIRE ALARM ADDRESSABLE INTERFACE DEVICE (2 TOTAL). CONNECT TO ELEVATOR SHUNT TRIP CIRCUIT BREAKER. SEE FIRE ALARM RISER & ELEVATOR POWER SHUT-OFF DIAGRAM.
- ADDRESSABLE INTERFACE DEVICE. LOCATE IN ELEVATOR LOBBY. SEE ELEVATOR POWER SHUT-OFF DIAGRAM.
- WHEREVER MULTIPLE ELEVATORS ARE LOCATED IN COMMON MACHINE ROOMS OR SHAFTS INTERLOCK ALL HEAT AND SMOKE DETECTORS THAT ARE PART OF SHUTOFF AND RECALL SYSTEMS.
- WHEREVER ONE OR MULTIPLE ELEVATORS ARE CONNECTED TO THE ESSENTIAL POWER SYSTEM IN A BUILDING PROVIDE WIRING FROM THE ASSOCIATED ATS TO EACH ELEVATOR CONTROLLER.
- SPRINKLER SYSTEM SUPERVISORY SWITCH WIRED TO FIRE ALARM SYSTEM.
- SMOKE DAMPER AND FIRE ALARM ADDRESSABLE INTERFACE DEVICE WHERE SHOWN ON PLANS.

### LUMINAIRE SCHEDULE BIDS SHALL BE BASED ON THE LUMINAIRE SCHEDULE BELOW AND THE SPECIFICATIONS. REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL GENERAL REQUIREMENTS. MANUFACTURER FIXTURE DESCRIPTION VOLTS LAMPS COLUMBIA 'LXEM' SERIES OR FOLLOWING EQUIVALENT: GASKETED AND SEALED LED INDUSTRIAL WRAP: FIBERGLASS REINFORCED HOUSING; UL LISTED FOR WET LOCATION; UV-RESISTANT DEEP HIGH-IMPACT ACRYLIC LENS, LUMINAIRE TO BE RATED DOWN TO -20°C. 120V 6000 LUMENS DAYBRITE 'VAPORLUME' SERIES METALUX 'VAPORTITE' 120V 650 LUMENS **EMERGENCY LIGHTING UNIT:** DUAL LITE EVHC SERIES OR IMPACT RESISTANT HOUSING, ACRYLIC PRISMATIC LENS, (2) LED LAMPS, WHITE FINISH, FOLLOWING EQUIVALENT: SEALED LITHIUM IRON PHOSPHATE BATTERY, INTEGRAL TEST SWITCH, CHARGER, LOW VOLTAGE DISCONNECT, INTEGRAL SELF-DIAGNOSTIC TEST FEATURE. CHLORIDE 'VU6L' SERIES BEGHELLI 'XLPLED' SERIES







MOUNT 12" AFF -SEE ELEVATOR SCHEDULE -LOCATE ADJACENT -TO TOP OF LADDER LOBBY AID S 2

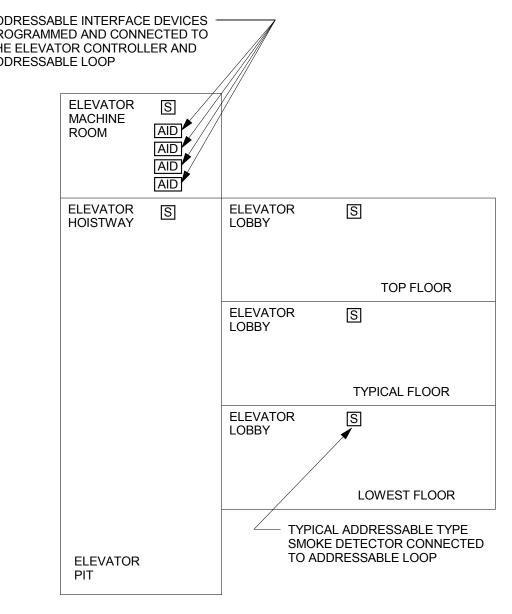
LOBBY S2

TYPICAL FLOOR

**ELEVATOR HOISTWAY PLANS** NOT TO SCALE

SEE FLOOR PLANS FOR EXACT CONFIGURATION OF HOISTWAY.

**LOWEST FLOOR** 



**ELEVATOR FIRE RECALL DETAIL** NOT TO SCALE (TYPICAL FOR EACH ELEVATOR)

NOT TO SCALE (TYPICAL FOR EACH ELEVATOR)

GENERAL NOTES:

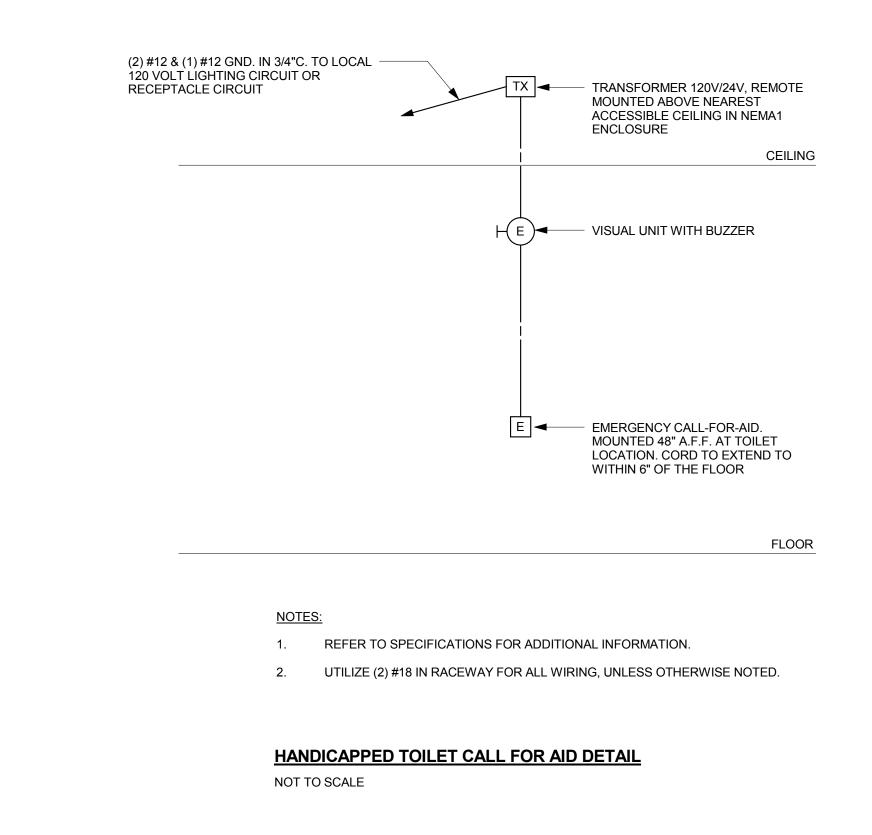
PROVIDE "ELEVATOR" FUNCTION SWITCH IN MAIN FACP TO ALLOW ANY SMOKE DETECTOR SHOWN ON THIS DETAIL TO FUNCTION WITHOUT NOTIFICATION OF BUILDING ALARM SYSTEM. INITIATION OF ANY HEAT DETECTOR IN THE SHAFT OR ELEVATOR MACHINE ROOM TO

INTERRUPT THE POWER FEED TO THE ELEVATOR CONTROLLER VIA THE SHUNT TRIP CIRCUIT

PROGRAM THE FOLLOWING TOGETHER:

MACHINE ROOM DETECTORS SHAFT DETECTORS

DESIGNATED FLOOR DETECTOR ALL OTHER DETECTORS SHOWN ON THIS DETAIL





GOODYCLANCY Mitchell | Giurgola Architects, LLP

ARCHITECT: Mitchell | Giurgola Architects, LLP 630 Ninth Avenue, Suite 711 New York, New York 10036 212 663 4000

ARCHITEC T: Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760

STRUCTURAL ENGINEER: ROBERT SILMAN ASSOCIATES 111 Devonshire St Boston, Massachsetts 617-695-6700 MEP ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002 860-286-9171 SITE | CIVIL ENGINEER: BVH Integrated Services

50 Griffin Road South

860-286-9171

Bloomfield, Connecticut 06002

LIGHTING SUSTAINABILITY CONSULTANT: ATELIER TEN 195 Church Street, 10th Floor New Haven, Connecticut 06510 203-777-1400 LANDSCAPE ARCHITECT TOWERS|GOLDE LLC 85 WILLOW ST NEW HAVEN CT 06511 203-773-1153 x322

CODE CONSULTANT

ELKINS, NH 03233

603-526-6190

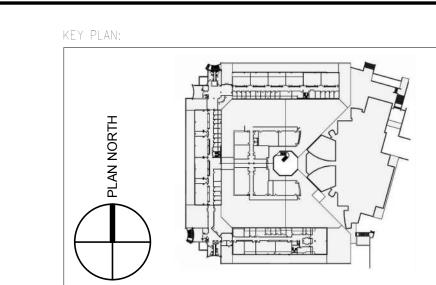
P.O. BOX216

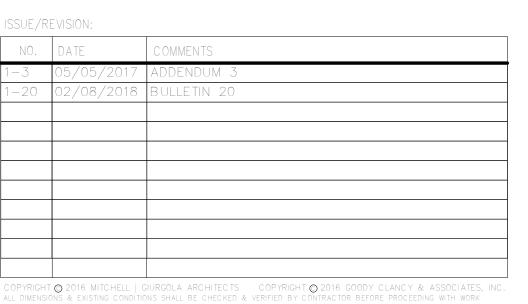
Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD

WILSPEC LLC LYNNFIELD MEDICAL OFFICE BUILDING 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 CONSTRUCTION MANAGER WHITING-TURNER CONSTRUCTION CO. 123 CHURCH STREE, 10TH FLOOR NEW HAVEN, CT 06510 203-777-6783

SPECIFIC ATIONS:





GANT BUILDING RENOVATIONS-STEM PHASE 1

ELECTRICAL DETAILS DATE: 04/03/2017 PROJECT NO: 9920 PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: NOT TO SCALE

CHECKED BY: AV DRAWN BY: LEM

#901803

		NATION PA													
		GROUND - ELEC	S026					)/277 W	ye		AISC RATING: 65k				
	SUPPLY FROM:					PHASE					MAINS TYPE: MLO MAINS RATING: 400 A				
	MOUNTING:				AV # 01	WIRE					MAINS	RATING:	400 A		
NOTE	ENCLOSURE:	TYPE 1		IVI	AX # OI	F POLE	: <b>5:</b> 42								
	SPECIFICATION SECTION 'FU	ISED SELECTIVE	PANEI RO	ARDS'	FOR F	FΔTIIR	ES OF	PANEI	R∩∆R	ns.					
	Y SIZE, QUANTITY AND TYP										DULES. AN	ID SPECI	FICATIONS.		
CKT	CIRCUIT DESCRIPTION		POLES		4		3			POLES			RCUIT DESCRIPTION	СКТ	
1	OIROOH BLOOKII HE	1002	1 OLLO	0	0			•		, ollo	TOOL	0.	ROOM BLOOKII HOR	2	
3	EC-HLP-S1	100 A	3			1075	0			3	100 A	SPARE		4	
5		.5571						602	0					6	
7				805	1494									8	
9	EC-HLP-S4	100 A	3			1438	1432			3	100 A	EC-HLP	-P1	10	
11	-							883	0					12	
13				3636	1200									14	
15	EC-HLP-SG	60 A	3			1506	0			3	30 A	TX-EC-L	RP-SG	16	
17	-							1314	0					18	
19				0	0									20	
21	SPARE	100 A	3			0	0			3	60 A	SPARE		22	
23								0	0					24	
25				0	0									26	
27	SPARE	30 A	3			0	0			3	20 A	SPARE		28	
29								0	0					30	
31	SPACE			0	0							SPACE		32	
33	SPACE					0	0					SPACE		34	
35	SPACE							0	0			SPACE		36	
37	SPACE			0	0							SPACE		38	
39	SPACE					0	0					SPACE		40	
41	SPACE							0	0			SPACE		42	

	LOCATION: MAIN	FLEC EM R	OOM			ΌΙ ΤΔΟ	<b>SE</b> : 120	/208 \//	ve		AISC	RATING:	65k			
	SUPPLY FROM: TX-ES		OOW			PHASE		// 200 VV	yc			IS TYPE:				
	MOUNTING: SURFA					WIRE						RATING:				
	ENCLOSURE: TYPE			MAX # OF POLES: 42							MCB RATING: 400 A					
NOTE				_												
[A] PR	OVIDE GROUND FAULT CIRCUIT II	NTERRUPT	ER CIRCL	JIT BRI	EAKERS	S.										
	PECIFICATION SECTION 'PANELB						DS.									
VERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT B	REAKERS	S IN PA	NELBO	ARDS	WITH F	LANS,	RISER	S, SCHEE	DULES, AN	ND SPECI	FICATIONS.			
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES				В		С		TRIP		RCUIT DESCRIPTION	СКТ		
1	MV SWGR CONTROLS	20 A	1	500	2680	•	_		_	POLES	11311	0.	NOON BLOOK!! HOW	2		
3			-			2000	2680			3	√ 200 A	ES-LRP	-SG-2	4		
5	S.04 NEMA 6-50R	50 A	2					2000	180	1 1	-1			6		
7				1840	1080									8		
9	ES-LDP-S1	225 A	3			1840	720			3	225 A	ES-LDP	-S2	10		
11								1840	720					12		
13				840	1800									14		
15	ES-LDP-S3	225 A	3			840	1620			3	225 A	ES-LDP	-S4	16		
17								840	360					18		
19				3053	5613									20		
21	ES-LDP-P1	225 A	3			3053	4613			3	200 A	ES-LRP	-SG-1	22		
23								4053	5373					24		
25				4200	2000					2	50 A	S OA NE	MA 6-50R	26		
27	ES-LRP-SG-3	100 A	3			3000	2000				30 A	0.04 INE	IVIA O-OOK	28		
29	4	/1-1\						1000	2000	2	50 A	S 04 NE	MA 6-50R	30		
31				0	2000						50 A	0.04 INL	IVII ( O OOI (	32		
33	SPARE	225 A	3			0	0			2	20 A	SPARE		34		
35								0	0	_	2071	0.71112		36		
37	SPARE	20 A	2	0	0									38		
39						0	0			3	200 A	FUTUR	E PANEL	40		
41	SPARE	20 A	1					0	0					42		

	LOCATION:	DATA CENTER			٧	OLTAG	<b>E</b> : 480	)/277 V	Vye		AISC	RATING: 65k			
	SUPPLY FROM:	HDP-DC-1				PHASE	<b>S</b> : 3				MAINS TYPE: MCB				
	MOUNTING:	SURFACE				WIRE	S: 4				MAINS	RATING: 600 A			
	ENCLOSURE:	TYPE 1		<u>M</u>	AX # O	F POLE	<b>S:</b> 42				MCB	RATING: 600 A			
OTE	S:														
A] PR	OVIDE GROUND FAULT CIRC	CUIT INTERRUPTI	ER CIRCL	JIT BRE	EAKER	S.									
SEE S	PECIFICATION SECTION 'PA	NELBOARDS' FOI	R FEATUR	RES OF	PANE	LBOAR	DS.								
/ERIF	Y SIZE, QUANTITY AND TYP	ES OF CIRCUIT BI	REAKERS	IN PA	NELBO	ARDS \	NITH F	PLANS	, RISER	RS, SCHED	ULES, AN	ID SPECIFICATIONS.			
СКТ	CIRCUIT DESCRIPTIO	N TRIP	POLES		A	E	3		С	POLES	TRIP	CIRCUIT DESCRIPTION	СКТ		
1				0	0								2		
3	CRAC-1	125 A	3			0	0			3	125 A	CRAC-3	4		
5								0	0				6		
7				0	0								8		
9	CRAC-5	125 A	3			0	0			3	20 A	ACC-1	10		
11								0	0				12		
13				0	0								14		
15	ACC-3	20 A	3			0	0			3	20 A	ACC-5	16		
17								0	0				18		
19				0	0								20		
21	SPARE	125 A	3			0	0			3	20 A	SPARE	22		
23								0	0				24		
25				0	0								26		
27	SPARE	50 A	3			0	0			3	20 A	SPARE	28		
29								0	0				30		
31	SPACE			0	0							SPACE	32		
33	SPACE					0	0					SPACE	34		
35	SPACE							0	0			SPACE	36		
37	SPACE			0	0							SPACE	38		
39	SPACE					0	0					SPACE	40		
41	SPACE							0	0			SPACE	42		

	BRA	NCH PAI	NEL:	<u>HL</u>	<u>P-S</u>	<u>G</u>								
	LOCATION:	MAIN ELEC. RM - S	SW		٧	OLTAGE	: 48	0/277 W	ye		AISC I	RATING:	65k	
	SUPPLY FROM:	HDP-SG				PHASES	3: 3				MAIN	S TYPE:	MLO	
	MOUNTING:	SURFACE				WIRES	<b>5</b> : 4				MAINS	RATING:	225 A	
	ENCLOSURE:	TYPE 1		M	AX#O	F POLES	<u>3:</u> 42	<u> </u>						
NOTE	S:													
[A] PR	OVIDE GROUND FAULT CIR	CUIT INTERRUPTE	ER CIRCU	JIT BRE	EAKER	S.								
SEE S	PECIFICATION SECTION 'PA	NELBOARDS' FOR	R FEATUR	RES OF	PANE	LBOARD	S.							
VERIF	Y SIZE, QUANTITY AND TYP	ES OF CIRCUIT BE	REAKERS	IN PA	NELBO	ARDS W	ITH I	PLANS,	RISER	S, SCHED	ULES, AN	D SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTIO	N TRIP	POLES		A	В			3	POLES	TRIP	CI	RCUIT DESCRIPTION	СКТ
1	SPARE	20 A	1	0	0					1	20 A	SPARE		2
3	SPARE	20 A	1			0	0			1	20 A	SPARE		4
5	SPARE	20 A	1					0	0	1	20 A	SPARE		6
7	SPARE	20 A	1	0	0					1	20 A	SPARE		8
9	SPARE	20 A	1			0	0			1	20 A	SPARE		10
11	Lighting	20 A	1					447	0	1	20 A	SPARE		12
13	STAIR A LIGHTING	20 A	1	200	2462					1	20 A	GND FL	LIGHTING	14
15	GND FL LIGHTING	20 A	1			1102	1693			1	20 A	GND FL	LIGHTING	16
17	CLASSROOM LIGHTING	20 A	1					2569	3084	1	20 A	LAB LIG	HTING	18
19	LAB LIGHTING	20 A	1	2318	0					1	20 A	SPARE		20
21	LAB LIGHTING	20 A	1			2638	2840			1	20 A	LAB LIG	HTING	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE		24
25	SPARE	0 A	1	0	0					1	0 A	SPARE		26
27	SPARE	0 A	1			0	0			1	0 A	SPARE		28
29	SPARE	0 A	1					0	0	1	0 A	SPARE		30
31	SPARE	0 A	1	0	0					1	0 A	SPARE		32
33	SPARE	0 A	1			0	0			1	0 A	SPARE		34
35	SPARE	0 A	1					0	0	1	0 A	SPARE		36
37	SPARE	0 A	1	0	0					1	0 A	SPARE		38
	SPARE	0 A	1			0	0			1	0 A	SPARE		40
39	SPARE										0 A	SPARE		42

	DISTRIBUT	TION PAI	NEL:	ES.	<u>-HD</u>	<u>P-S</u>	G							
	LOCATION:				٧	OLTAG	<b>E</b> : 480	)/277 W	ye		AISC	RATING:	35k	
	SUPPLY FROM:	S-ATS-SG				PHASE	<b>S</b> : 3				MAIN	IS TYPE:	MLO	
	MOUNTING: S	SURFACE				WIRE	S: 4				MAINS	RATING:	800 A	
	ENCLOSURE: T	YPE 1		<u>M</u>	4X # O	F POLE	<b>S:</b> 42						^	
IOTE	S:												<u></u>	
A] PR	OVIDE GROUND FAULT CIRC	UIT INTERRUPTI	ER CIRCU	JIT BRE	AKERS	S								
	PECIFICATION SECTION 'PAN													
'ERIF	Y SIZE, QUANTITY AND TYPE	S OF CIRCUIT B	REAKERS	S IN PAI	NELBO	ARDS	WITH P	LANS,	RISER	S, SCHEE	DULES, AN	ID SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	I TRIP	POLES		4		3	(	2	POLES	TRIP	CI	RCUIT DESCRIPTION	СКТ
1				33240	0									2
3	ES-HPP-SG-2	225 A	3			33240	0			3	100 A	ES-HPP	-SG-1	4
5								33240	0					6
7			_	25607	87421									8
9	TX-ES-LDP-SG	200 A	3			22367	87421			3	600 A	ES-HPP	-SR-1	10
11				407705	0.440			18367	87421	~~~~	~~~~	<del>~~~</del>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
13	EC LIDD OD 2	600.4		137725	9418	137725	9418		-	1	00.4		TOD.	14
15 17	ES-HPP-SR-2	600 A	3			13//25	9418	137725	9418	3	80 A	ELEVAT	UR	16 18
19				0	0			13/725	9410(	Luu		<del>luuu</del>		
21	SPARE	600 A	3			0	0			3	225 A	SPARE		22
23	OI 7 II C	33371						0	0		22071			24
25				0	0				5	14444	<del>~~~~</del>	mmm.	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	26
27	SPARE	200 A	3			0	0		}	3	80 A	SPARE		28
29								0	0 {					30
31	SPACE			0	0						<del></del>	SPACE		32
33	SPACE					0	0					SPACE		34
35	SPACE							0	0			SPACE		36
37	SPACE			0	0							SPACE		38
39	SPACE					0	0					SPACE		40
41	SPACE							0	0			SPACE		42
			L LOAD:	2934		2901			71 VA					
		TOTA	L AMPS:	106	1 A	105	50 A	103	33 A					

	FUSED COORDINATI	ON PA	NEL:	EC-	LRP	-SG							
	LOCATION:				V	OLTAGE	: 1:	20/208 W	'ye		AISC	RATING: 10k	
	SUPPLY FROM: TX-EC-	LRP-SG				PHASES			,		MAIN	IS TYPE: MCB	
	MOUNTING: SURFA	CE				WIRES	: 4				MAINS	RATING: 100 A	
	ENCLOSURE: TYPE 1			<u>M</u>	AX # O	F POLES	<u>:</u> 42	2			MCB	RATING: 50 A	
NOTE												<u> </u>	
	PECIFICATION SECTION 'FUSED SI												
VERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT BI	REAKERS	IN PA	NELBO	ARDS W	ITH	PLANS,	RISER	S, SCHE	DULES, AN	ID SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	FUSE	POLES	,	4	В		(	C	POLES	FUSE	CIRCUIT DESCRIPTION	CKT
1	FACP (LOCKING BREAKER)	20 A	1	600	600					1	20 A	FACP (LOCKING BREAKER)	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPACE					0	0					SPACE	22
23	SPACE							0	0			SPACE	24
25	SPACE			0	0							SPACE	26
27	SPACE					0	0					SPACE	28
29	SPACE							0	0			SPACE	30
31	SPACE			0	0							SPACE	32
33	SPACE					0	0					SPACE	34
35	SPACE							0	0			SPACE	36
37	SPACE			0	0							SPACE	38
39	SPACE					0	0					SPACE	40
41	SPACE							0	0			SPACE	42
	I	TOTA	L LOAD:	120	0 VA	0 VA	\	0 '	VA		I	I	
		TOTA	L AMPS:	10	) A	0 A		0	Α				

	LOCATION:	MAIN ELEC EM R	OOM		V	OLTAGE	፤:  48	0/277 W	ye		AISC	RATING: 65k	
	SUPPLY FROM:	EC-ATS-DC-2	\			PHASES	3: 3				MAIN	IS TYPE: MCB	
	MOUNTING: S	SURFACE	7			WIRES	<b>S</b> : 4				MAINS	RATING: 1600 A	
	ENCLOSURE:	ΓYPE 1		M	AX # O	F POLES	<u>3:</u> 42	?			МСВ	RATING: 1600 A	
NOTE	S:											·	
A] PR	OVIDE GROUND FAULT CIRC	CUIT INTERRUPT	ER CIRCU	IT BRE	EAKERS	<b>S</b> .							
SEE S	PECIFICATION SECTION 'PAI	NELBOARDS' FO	R FEATUF	RES OF	PANE	LBOARD	S.						
/ERIF	Y SIZE, QUANTITY AND TYPE	S OF CIRCUIT B	REAKERS	IN PA	NELBO	ARDS W	/ITH	PLANS,	RISER	RS, SCHEE	DULES, AN	ND SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	N TRIP	POLES		Α	В				POLES	TRIP	CIRCUIT DESCRIPTION	СК
1				0	0								2
3	HPP-DC-2	600 A	3			0	0			3	600 A	DPB	4
5								0	0				6
7				0	0								8
9	SPARE	600 A	3			0	0			3	600 A	SPARE	10
11								0	0				12
13				0	0								14
15	SPARE	100 A	3			0	0			3	400 A	SPARE	16
17								0	0				18
19	SPACE			0	0							SPACE	20
21	SPACE					0	0					SPACE	22
	SPACE							0	0			SPACE	24
25	SPACE			0	0							SPACE	26
27	SPACE					0	0					SPACE	28
29	SPACE							0	0			SPACE	30
31	SPACE			0	0							SPACE	32
33	SPACE					0	0					SPACE	34
35	SPACE							0	0			SPACE	36
37	SPACE			0	0							SPACE	38
39	SPACE					0	0					SPACE	40
41	SPACE							0	0			SPACE	42

		NCH PAI				OLTAG	<b>E</b> : 480	)/277 W	'ye		AISC	RATING: 65k	
	SUPPLY FROM:					PHASE			,-			IS TYPE: MLO	
	MOUNTING:	SURFACE				WIRE	S: 4				MAINS	RATING: 400 A	
	ENCLOSURE:	TYPE 1		<u>M</u>	AX # OI	F POLE	<b>S:</b> 42						
NOTES	S:						'			,			
A] PR	OVIDE GROUND FAULT CIR	CUIT INTERRUPTI	ER CIRCU	JIT BRE	EAKERS	3.							
SEE S	PECIFICATION SECTION 'PA	NELBOARDS' FOI	R FEATUR	RES OF	PANE	LBOARI	DS.						
/ERIF	Y SIZE, QUANTITY AND TYP	ES OF CIRCUIT BI	REAKERS	IN PA	NELBO	ARDS V	WITH F	LANS,	RISER	S, SCHEE	DULES, AN	ID SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	N TRIP	POLES		A	В	3		С	POLES	TRIP	CIRCUIT DESCRIPTION	СК
1				0	2667								2
3	SPARE	100 A	3			0	2667			3	20 A	EHUM-SG-L1	4
5_								0	2667				6
7				1333	2667								8
9	EHUM-SG-L2	20 A	3			1333	2667			3	20 A	EHUM-SG-L3	1
11								1333	2667				1:
13				2659	11080								14
15	BP-1	20 A	3			2659	11080			3	100 A	LAC-1	10
17			-1\					2659	11080				18
19				5817	5817								2
	BP-2	50 A	3			5817	5817			3	50 A	BP-3	2:
23								5817	5817				2
25				582	0								2
27	SEP-1	20 A	3			582	0			3	50 A	SPARE	2
29								582	0				3
31	ODADE.			0	0						00.1	OD A DE	3
33	SPARE	50 A	3			0	0			3	20 A	SPARE	3
35								0	0				3
37	CDADE	20.4		0	0		0				20.4	SDADE	38
39	SPARE	20 A	3			0	0			3	20 A	SPARE	4
41			L LOAD:		22 VA	32622		0	0 22 VA				4

	LOCATION:	GROUND - MECH	S025		٧	OLTAGE	<b>E:</b> 480	)/277 W	/ye		AISC	RATING: 14k	
	SUPPLY FROM:	ES-HDP-SG				PHASES	<b>3</b> : 3		-		MAIN	IS TYPE: MLO	
	MOUNTING:	SURFACE				WIRES	<b>3</b> : 4				MAINS	RATING: 100 A	
	ENCLOSURE:	TYPE 1		M	AX # 0	F POLES	<b>3:</b> 42						
NOTE	S:									·			
[A] PR	OVIDE GROUND FAULT CIR	CUIT INTERRUPT	ER CIRCU	IIT BRI	EAKERS	S.							
	PECIFICATION SECTION 'PA												
VERIF	Y SIZE, QUANTITY AND TYP	ES OF CIRCUIT B	REAKERS	IN PA	NELBO	ARDS W	/ITH F	LANS,	RISER	S, SCHED	ULES, AN	ND SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	N TRIP	POLES		Α	В		(	С	POLES	TRIP	CIRCUIT DESCRIPTION	СК
1				0	0								2
3	SPARE	30 A	3			0	0			3	30 A	SPARE	4
5								0	0				6
7	SPARE	20 A	2	0	0					2	20 A	SPARE	8
9		2074				0	0				207		10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPACE					0	0					SPACE	22
23	SPACE							0	0			SPACE	24
25	SPACE			0	0							SPACE	26
27	SPACE					0	0					SPACE	28
29	SPACE							0	0			SPACE	30
31	SPACE			0	0							SPACE	32
33	SPACE					0	0					SPACE	34
35	SPACE							0	0			SPACE	36
37	SPACE			0	0							SPACE	38
39	SPACE					0	0					SPACE	40
41	SPACE							0	0			SPACE	42

	LOCATION: GROU	IND - I AR SO	013		V	ΟΙ ΤΔΟ	F: 120	- 0/208 W	Ve		AISC	RATING: 10k	
	SUPPLY FROM: ES-LD		310			PHASE		0/200 11	yc			IS TYPE: MLO	
	MOUNTING: SURF					WIRE						RATING: 200 A	
	ENCLOSURE: TYPE			М	AX # OI						WAIN	INATINO. 200 A	
NOTE		<u>'</u>		<u>v.</u>	rut ii Oi	I OLL	<u>.o.</u>						
	OVIDE GROUND FAULT CIRCUIT I	NTERRUPT	ER CIRCI	IIT BRE	-AKERS	3							
	SPECIFICATION SECTION 'PANELB						DS						
	FY SIZE, QUANTITY AND TYPES OF							OI ANG	RISER	S SCHEE	NIIES AN	ID SPECIFICATIONS	
								1		<u> </u>	<u> </u>		
CKT	CIRCUIT DESCRIPTION	TRIP	POLES		A		3			POLES	TRIP	CIRCUIT DESCRIPTION	СК
	RECEPTACLES	20 A	1	180	2500					1	30 A	RECEPTACLES	2
3	RECEPTACLES	20 A	1			180	2500			1	30 A	RECEPTACLES	4
5	RECEP FOR FRIG.	20 A	1					180	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23								0	0				24
25	SPARE	30 A	3	0	0					3	30 A	SPARE	26
27						0	0						28
29								0	0				30
31	SPARE	20 A	3	0	0					3	20 A	SPARE	32
33						0	0						34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42

	LOCATION:	DATA CENTER			V	<b>OLTAG</b>	<b>SE</b> : 48	0/277 W	'ye		AISC	RATING:	65k	
	SUPPLY FROM:					PHASE	1 -				MAIN	IS TYPE:	MCB	
	MOUNTING:	SURFACE				WIRE					MAINS	RATING:	600 A	
	ENCLOSURE:	TYPE 1		<u>M</u>	IAX#O	F POLE	<b>S:</b> 42				MCB	RATING:	600 A	
NOTE	S:													
A] PR	OVIDE GROUND FAULT CIRC	CUIT INTERRUPTI	ER CIRCL	JIT BR	EAKER:	S.								
	PECIFICATION SECTION 'PA													
/ERIF	Y SIZE, QUANTITY AND TYPE	ES OF CIRCUIT BI	REAKERS	IN PA	NELBC	ARDS \	WITH	PLANS,	RISER	S, SCHED	ULES, AN	ND SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTIO	N TRIP	POLES		Α	E	3		С	POLES	TRIP	CI	RCUIT DESCRIPTION	CK
1				0	0									2
3	CRAC-2	125 A	3			0	0			3	125 A	CRAC-4		4
5								0	0					6
7				0	0									8
9	CRAC-6	50 A	3			0	0			3	50 A	CRAC-7		10
11								0	0					12
13				0	0									14
15	ACC-2	20 A	3			0	0			3	20 A	ACC-4		16
17								0	0					18
19				0	0									20
21	ACC-6	20 A	3			0	0			3	20 A	ACC-7		22
23								0	0					24
25				0	0									26
27	SPARE	125 A	3			0	0			3	50 A	SPARE		28
29								0	0					30
31				0	0									32
33	SPARE	20 A	3			0	0			3	20 A	SPARE		34
35								0	0					36
37	SPACE			0	0							SPACE		38
	SPACE					0	0					SPACE		40
41	SPACE							0	0			SPACE		42

	LOCATION: GROUN	D - MECH	S020		V	OLTAG	<b>E</b> : 480	)/277 W	ye		AISC	RATING:	65k	
	SUPPLY FROM: SHDP-S	G				PHASE	<b>S</b> : 3				MAIN	IS TYPE:	MLO	
	MOUNTING: SURFAC	CE				WIRE	S: 4				MAINS	RATING:	400 A	
	ENCLOSURE: TYPE 1			<u>M</u>	AX # OI	POLE	<b>S:</b> 42							
NOTES														
•	OVIDE GROUND FAULT CIRCUIT IN													
	PECIFICATION SECTION 'PANELBO													
VERIF'	Y SIZE, QUANTITY AND TYPES OF C	IRCUIT BE	REAKERS	IN PA	NELBO.	ARDS \	WITH P	PLANS,	RISERS	S, SCHED	DULES, AN	ID SPECI	FICATIONS.	
CKT	CIRCUIT DESCRIPTION	TRIP	POLES		A	E	3	(		POLES	TRIP	CI	RCUIT DESCRIPTION	CK
1				14404	14404									2
3	P-SG-2A-VFC	125 A	3			14404	14404			3	125 A	P-SG-2E	B-VFC	4
5								14404	14404					6
7				14404	5817									8
9	P-SG-2C-VFC	125 A	3			14404	5817			3	50 A	P-SG-3	A-VFC	10
11								14404	5817				<u>1-4\</u>	12
13	D 00 0D 1/50	50 A		5817	5817	50.17					50 A	D 00 00	2.1/50	14
15 17	P-SG-3B-VFC	50 A	3			5817	5817	5817	5817	3	50 A	P-SG-30	S-VFC	16
17				2000	2000			3017	3617					20
	EHUM-SG-L7	20 A	3	2000	2000	2000	2000			3	20 A	EHUM-S	SG-1 0	22
23	LITOWI GG E/	2071				2000		2000	2000		2071	LITOWIC	JO 20	24
25				2000	2667									26
	EHUM-SG-L10	20 A	3			2000	2667			3	20 A	EHUM-S	SG-L12A	28
29								2000	2667					30
31				2667	2667									32
33	EHUM-SG-L11	20 A	3			2667	2667			3	20 A	EHUM-S	SG-L12B	34
35								2667	2667					36
37				0	0									38
39	SPARE	125 A	3			0	0			3	20 A	SPARE		40
41								0	0					42

	LOCATION: GRO	OUND - MECH	S020		٧	<b>OLTAG</b>	E: 4	80/277 W	ye		AISC	RATING:	14k	
	SUPPLY FROM: ES-I	HDP-SG				PHASE	<b>S</b> : 3	ı			MAIN	S TYPE:	MLO	
	MOUNTING: SUF	FACE				WIRE	S: 4				MAINS	RATING:	225 A	
	ENCLOSURE: TYP	E 1		<u>M</u> .	AX # O	F POLE	<u>S:</u> 4	2						
NOTE	S:									·				
A] PR	OVIDE GROUND FAULT CIRCUIT	INTERRUPT	ER CIRCL	JIT BRE	AKER	S.								
SEE S	PECIFICATION SECTION 'PANEL	BOARDS' FO	R FEATUR	RES OF	PANE	LBOAR	DS.							
/ERIF	Y SIZE, QUANTITY AND TYPES (	F CIRCUIT B	REAKERS	IN PA	NELBC	ARDS V	NITH	I PLANS,	RISER	S, SCHED	ULES, AN	ID SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES	/	4	E	3			POLES	TRIP	CI	RCUIT DESCRIPTION	СКТ
1				11080	11080									2
3	P-SG-1A-VFC	100 A	3			11080	1108	30		3	100 A	P-SG-1E	3-VFC	4
5								11080	11080					6
7				11080	0									8
9	P-SG-1C-VFC	100 A	3			11080	0			3	100 A	SPARE		10
11								11080	0					12
13				0	0									14
15	SPARE	100 A	3			0	0			3	60 A	SPARE		16
17								0	0					18
19				0	0									20
21	SPARE	30 A	3			0	0			3	20 A	SPARE		22
23								0	0					24
25	SPACE			0	0							SPACE		26
27	SPACE					0	0					SPACE		28
29	SPACE			_	_			0	0			SPACE		30
31	SPACE			0	0							SPACE		32
33	SPACE					0	0					SPACE		34
35	SPACE			0				0	0			SPACE		36
37	SPACE			0	0		_					SPACE		38
39	SPACE SPACE					0	0	0	0			SPACE SPACE		40
41														1 717

	LOCATION:	MAIN ELEC EM RO	MOC		٧	<b>OLTAG</b>	<b>E</b> : 480	)/277 W	/ye		AISC	RATING:	65k	
	SUPPLY FROM:	EC-ATS-DC-1				PHASE	<b>S</b> : 3				MAIN	IS TYPE:	MCB	
	MOUNTING:	SURFACE				WIRE	S: 4				MAINS	RATING:	1600 A	
	ENCLOSURE:	TYPE 1		M	AX # 0	F POLE	<b>S</b> : 42				МСВ	RATING:	1600 A	
NOTE	S:						'			'				
A] PR	OVIDE GROUND FAULT CIR	CUIT INTERRUPTI	ER CIRCL	JIT BRE	AKER	S.								
SEE S	PECIFICATION SECTION 'PA	NELBOARDS' FO	R FEATUR	RES OF	PANE	LBOAR	DS.							
VERIF	Y SIZE, QUANTITY AND TYP	ES OF CIRCUIT BI	REAKERS	IN PA	NELBC	ARDS \	NITH F	PLANS,	RISER	S, SCHEE	ULES, AN	ID SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	N TRIP	POLES		Δ		3		C	POLES	TRIP	CI	RCUIT DESCRIPTION	СКТ
1				1333	0									2
3	TX-LDP-DC	400 A	3			333	0			3	600 A	HPP-DC	-1	4
5								333	0	1				6
7				0	0									8
9	DPA	600 A	3			0	0			3	600 A	SPARE		10
11								0	0	1				12
13				0	0									14
15	SPARE	400 A	3			0	0			3	200 A	SPARE		16
17								0	0					18
19	SPACE			0	0							SPACE		20
21	SPACE					0	0					SPACE		22
23	SPACE							0	0			SPACE		24
25	SPACE			0	0							SPACE		26
27	SPACE					0	0					SPACE		28
29	SPACE							0	0			SPACE		30
31	SPACE			0	0							SPACE		32
33	SPACE					0	0					SPACE		34
35	SPACE							0	0			SPACE		36
37	SPACE			0	0							SPACE		38
39	SPACE					0	0					SPACE		40
41	SPACE							0	0			SPACE		42

	LOCATION:				V	OLTAG	<b>E</b> : 480	)/277 W	ye		AISC I	RATING:	65k	
	SUPPLY FROM:	SHDP-SG				PHASE	<b>S</b> : 3				MAIN	IS TYPE:	MLO	
	MOUNTING:	SURFACE				WIRE	<b>S</b> : 4				MAINS	RATING:		
	ENCLOSURE:	TYPE 1		<u>M</u>	AX # O	F POLE	<b>S:</b> 42						1-1	
NOTE	S:									,				
A] PR	OVIDE GROUND FAULT CIR	CUIT INTERRUPTI	ER CIRCL	JIT BRE	AKERS	3.								
SEE S	SPECIFICATION SECTION 'PA	ANELBOARDS' FO	R FEATUR	RES OF	PANE	LBOAR	DS.							
/ERIF	Y SIZE, QUANTITY AND TYP	PES OF CIRCUIT B	REAKERS	IN PA	NELBO	ARDS V	VITH F	PLANS,	RISER	S, SCHED	ULES, AN	ID SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	ON TRIP	POLES		4	Е	3		C	POLES	TRIP	CI	RCUIT DESCRIPTION	СК
1				4980	4284									2
3	HLP-SG	225 A	3			8273	1576			3	100 A	HLP-S1		4
5	-							6100	0					6
7				5178	5089									8
9	HLP-S2	100 A	3			2521	2614			3	100 A	HLP-S3		10
11								0	0					12
13				1999	2352									14
15	HLP-S4	100 A	3			0	2535			3	100 A	HLP-P1		16
17								5030	3210					18
19				0	0									20
21	SPARE	225 A	3			0	0			3	225 A	SPARE		22
23								0	0					24
25				0	0									26
27	SPARE	100 A	3			0	0			3	100 A	SPARE		28
29								0	0					30
31	SPACE			0	0							SPACE		32
33	SPACE					0	0					SPACE		34
35	SPACE							0	0			SPACE		36
37	SPACE			0	0							SPACE		38
39	SPACE					0	0					SPACE		40
41	SPACE							0	0			SPACE		42
			L LOAD:		31 VA	1751			AV 04					
		TOTA	L AMPS:	88	3 A	65	Α	52	2 A					

DISTRIBUTION PANEL: HDP-SG

	LOCATION:	ELEC R	M S026 GF	ROUND		٧	OLTAGE	E: 120	)/208 W	ye		AISC I	RATING:	22	
	SUPPLY FROM:	ES-LDP	-SG				PHASES	_				MAIN	S TYPE:	MLO	
	MOUNTING:	SURFAC	CE				WIRES	<b>S</b> : 4				MAINS	RATING:	200 A	
	ENCLOSURE:	TYPE 1			M	AX # O	F POLES	<u>3:</u> 42							
NOTE	S:			'				'			<u>'</u>				
A] PR	OVIDE GROUND FAULT CIR	CUIT IN	TERRUPTI	ER CIRCU	JIT BRE	EAKERS	S.								
SEE S	SPECIFICATION SECTION 'PA	ANELBO	ARDS' FOI	R FEATUR	RES OF	PANE	LBOARD	S.							
/ERIF	Y SIZE, QUANTITY AND TYP	PES OF C	IRCUIT BI	REAKERS	IN PA	NELBO	ARDS W	/ITH F	PLANS,	RISER	S, SCHED	ULES, AN	D SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	N	TRIP	POLES		A	В			3	POLES	TRIP	CI	RCUIT DESCRIPTION	CK
1	DOOR OPENER		20 A	1	500	500					1	20 A	DOOR C	PENER	2
3	DOOR OPENER		20 A	1			500	500			1	20 A	DRY PIF	PE AIR COMPRESSOR	4
5	RECEPTACLES		20 A	1					1260	360	1	20 A	RECEP	ΓACLES	6
7	DOOR OPENER		20 A	1	500	360					1	20 A	RECEP	ΓACLES	8
9	DRY PIPE AIR COMPRESS	OR	20 A	1			500	360			1	20 A	RECEP	TACLES	10
11	RECEPTACLES		20 A	1					360	500	1	20 A	SWH-2	CONTROLS	12
13	RECEPTACLES		20 A	1	360	500					1	20 A	SWH-1	CONTROLS	14
15	RECEPTACLES		20 A	1			360	500			1	20 A	SWH-2	CIRCULATOR	16
17	SWH-1 CIRCULATOR		20 A	1					500	60					18
19	ELECTRIC BELL		20 A	1	500	60					3	50 A	CS83S6	5 RECEPTACLE	20
21	Other		20 A	1			500	60							22
23									667	667					24
25	CS83S65 RECEPTACLE		50 A	3	667	667					3	50 A	CS83SS	65 RECEPTACLE	26
27	-						667	667							28
29	ELEV. MACH. ROOM LTG &	PWR	20 A	1					500	500	1	20 A	ELEV. S	HAFT LTG & PWR	30
31	ELEV. CAB LTG & POWER		20 A	1	500	500					1	20 A	ELEV. C	ONTROLLER OIL COOLER	32
33	SPARE		20 A	1			0	0			1	20 A	SPARE		34
35	SPARE		20 A	1					0	0	1	20 A	SPARE		36
37	SPARE		20 A	1	0	0					1	20 A	SPARE		38
39	SPARE		20 A	1			0	0			1	20 A	SPARE		40
41	SPARE		20 A	1					0	0	1	20 A	SPARE		42
			TOTA	L LOAD:	561	3 VA	4613	VA	5373	3 VA					
			TOTA	L AMPS:	48	3 A	38 /	Α	46	6 A					

**ELECTRICAL PANELBOARD SCHEDULE NOTES** 

PANELBOARD SCHEDULES ARE ISSUED WITH BID DOCUMENTS FOR USE BY THE CONTRACTOR DURING CONSTRUCTION. AFTER ISSUANCE OF BID DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UPDATED PANEL SCHEDULES THAT REFLECT INSTALLED CONDITIONS AND MODIFICATIONS TO THE BID DOCUMENTS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ISSUING UPDATED SCHEDULES DURING THE CONSTRUCTION ADMINISTRATION PROCESS UNLESS DEEMED NECESSARY BY THE ENGINEER. IF DEEMED NECESSARY, SPECIFIC MODIFICATIONS SHALL NOT BE IDENTIFIED.

ALL CIRCUIT BREAKERS INDICATED FOR HVAC, PLUMBING, OR OWNER/OWNER'S VENDOR FURNISHED EQUIPMENT SHALL BE COORDINATED WITH ASSOCIATED CONTRACTOR/INSTALLER. REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON DRAWING #E-800-S FOR WIRING REQUIREMENTS FOR ASSOCIATED CIRCUIT



GOODYCLANCY Mitchell | Giurgola Architects, LLP Boston, Massachsetts 617-695-6700

ARCHITECT: Mitchell | Giurgola Architects, LLP 630 Ninth Avenue, Suite 711 New York, New York 10036 212 663 4000

ARCHITECT: Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760

MEP ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002 860-286-9171 SITE | CIVIL ENGINEER: BVH Integrated Services 50 Griffin Road South

STRUCTURAL ENGINEER:

Bloomfield, Connecticut 06002

860-286-9171

111 Devonshire St

LIGHTING SUSTAINABILITY CONSULTANT: ATELIER TEN ROBERT SILMAN ASSOCIATES 195 Church Street, 10th Floor New Haven, Connecticut 06510 203-777-1400 LANDSCAPE ARCHITECT TOWERS|GOLDE LLC 85 WILLOW ST NEW HAVEN CT 06511 203-773-1153 x322

CODE CONSULTANT

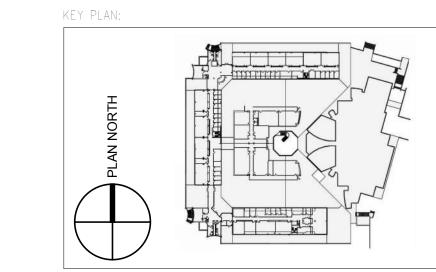
ELKINS, NH 03233 603-526-6190

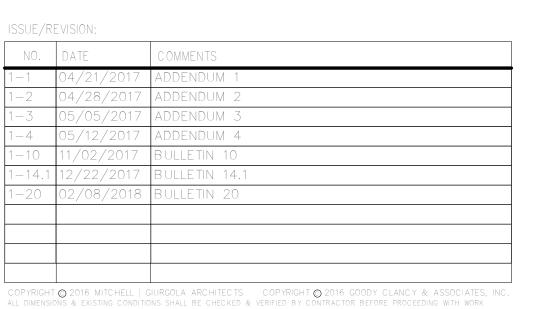
P.O. BOX216

Philip.R. SHERMAN, P.E.

444 WILMOT CENTER ROAD

SPECIFIC ATIONS: WILSPEC LLC LYNNFIELD MEDICAL OFFICE BUILDING 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 CONSTRUCTION MANAGER WHITING-TURNER CONSTRUCTION CO. 123 CHURCH STREE, 10TH FLOOR NEW HAVEN, CT 06510 203-777-6783





GANT BUILDING RENOVATIONS-STEM PHASE 1

ELECTRICAL SCHEDULES

DATE: 04/03/2017 PROJECT NO: 9920 PHASE: 100% CONSTRUCTION DOCUMENTS | SCALE: 12" = 1'-0" CHECKED BY: AV DRAWN BY: LEM

E:\REVIT\2115071\2115071 - MEP - V16 (RR).rvt 2/6/2018 4:36:02 PM

	BRANC	H PAI	NEL:	<u>LR</u>	<b>P-S</b>	<u>G-6</u>							
	LOCATION: LAB SO	)18 - GROU	ND		V	OLTAG	<b>E</b> : 120	/208 W	ye		AISC	RATING: 22k	
	SUPPLY FROM: LDP-S	G-2				PHASE	<b>S</b> : 3		-		MAIN	IS TYPE: MCB	
	MOUNTING: SURFA	ACE				WIRE	<b>ES</b> : 4				MAINS	RATING: 100 A	
	ENCLOSURE: TYPE	1		M	AX # OI	POLE	<b>S:</b> 42				MCB	RATING: 100 A	
NOTES	S:												
[A] PR(	OVIDE GROUND FAULT CIRCUIT IN	NTERRUPTI	ER CIRCL	JIT BRE	AKERS	<b>S</b> .							
SEE S	PECIFICATION SECTION 'PANELBO	DARDS' FO	R FEATUR	RES OF	PANE	LBOAR	DS.						
VERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT BI	REAKERS	IN PA	NELBO.	ARDS \	WITH P	LANS,	RISER	S, SCHED	ULES, AN	ND SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES		4	ı	3	(	3	POLES	TRIP	CIRCUIT DESCRIPTION	СКТ
1	RECEPTACLES	20 A	1	720	720					1	20 A	RECEPTACLES	2
3	RECEPTACLES	20 A	1			720	900			1	20 A	RECEPTACLES	4
5	RECEPTACLES	20 A	1					720	720	1	20 A	RECEPTACLES	6
7	RECEPTACLES	20 A	1	900	720					1	20 A	RECEPTACLES	8
9	RECEPTACLES	CEPTACLES 20 A								1	20 A	RECEPTACLES	10
11	RECEPTACLES	CEPTACLES 20 A						2000	540	1	20 A	RECEPTACLES	12
13	FCU-SG-L7	20 A	1	1500	43					1	20 A	UNDERCABINET LIGHTING	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
		TOTA	L LOAD:	4603	3 VA	402	0 VA	3980	0 VA				

	BRANC	H PA	NEL:	<u>HP</u>	<u> P-P</u>	<u>1</u>								
	LOCATION: MECH	/ELEC P101	1		٧	OLTAG	<b>E</b> : 48	30/277 W	ye		AISC	RATING:	14k	
	SUPPLY FROM: SHDP	-SG				PHASE	<b>S</b> : 3				MAII	NS TYPE:	MCB ^	
	MOUNTING: SURF.					WIRE						RATING:		
	ENCLOSURE: TYPE	1		<u>M</u>	AX # O	F POLE	<b>S:</b> 42	2			MCB	RATING:	225 A	
NOTE														
• •	ROVIDE GROUND FAULT CIRCUIT I													
	SPECIFICATION SECTION 'PANELB													
VERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT B	REAKERS	IN PA	NELBO	ARDS \	NITH	PLANS,	RISER	S, SCHED	ULES, A	ND SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES		A	E	3		C	POLES	TRIP	CI	RCUIT DESCRIPTION	СКТ
1				7479	7479									2
3	AHU-P1-1-SFA-VFC	60 A	3			7479	7479			3	60 A	AHU-P1	-1-SFB-VFC	4
5								7479	7479					6
7				3047	3047									8
9	AHU-P1-1-RFA-VFC	25 A	3			3047	3047	•		3	25 A	AHU-P1	-1-RFB-VFC	10
11								3047	3047					12
13				0	0									14
15	SPARE	60 A	3			0	0			3	25 A	SPARE		16
17								0	0					18
19				0	0									20
21	SPARE	60 A	3			0	0			3	25 A	SPARE		22
23								0	0					24
25	SPACE			0	0							SPACE		26
27	SPACE					0	0					SPACE		28
29	SPACE							0	0			SPACE		30
31	SPACE			0	0							SPACE		32
33	SPACE					0	0					SPACE		34
35	SPACE							0	0			SPACE		36
37	SPACE			0	0							SPACE		38
39	SPACE					0	0					SPACE		40
41	SPACE							0	0			SPACE		42
			AL LOAD:		52 VA	2105			52 VA					
		TOTA	AL AMPS:	76	6 A	76	Α	76	6 A					

	BRANC	H PAI	NEL:	<u>HL</u>	<u>P-S</u>	<u>1</u>							
	LOCATION: ELEC F	RM 1ST FL			V	OLTAG	<b>E</b> : 480	/277 W	'ye		AISC	RATING: 35k	
	SUPPLY FROM: HDP-S	G				PHASE					MAIN	IS TYPE: MCB	
	MOUNTING: SURFA	CE				WIRE	S: 4				MAINS	RATING: 100 A	
	ENCLOSURE: TYPE 1			<u>M</u>	AX # O	F POLE	<b>S:</b> 42				MCB	RATING: 100 A	
NOTE	S:												
[A] PR	OVIDE GROUND FAULT CIRCUIT IN	ITERRUPTI	ER CIRCU	IIT BRE	EAKERS	S.							
SEE S	PECIFICATION SECTION 'PANELBO	ARDS' FO	R FEATUR	RES OF	PANE	LBOAR	DS.						
VERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT BI	REAKERS	IN PA	NELBO	ARDS V	NITH F	LANS,	RISER	RS, SCHED	ULES, AN	ND SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES		A	E	3		С	POLES	TRIP	CIRCUIT DESCRIPTION	СК
1	1ST FL LIGHTING	20 A	1	2407	1877					1	20 A	1ST FL LIGHTING	2
3	1ST FL LIGHTING	20 A	1			1576	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPACE							0	0			SPACE	24
25	SPACE			0	0							SPACE	26
27	SPACE					0	0					SPACE	28
29	SPACE							0	0			SPACE	30
31	SPACE			0	0							SPACE	32
33	SPACE					0	0					SPACE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
		TOTA	L LOAD:	428	4 VA	1576	S VA	0 '	VA				1
		TOTA	L AMPS:	16	6 A	7	A	0	Α	_			

	BRA	NCH PAI	VFI:	ΙR	P <b>-</b> P	1-2								
		SCA;E UP LAB P1				OLTAGI	<b>≣</b> : 120	)/208 W	ve		AISC	RATING:	65k	
	SUPPLY FROM:		•			PHASES		,,	, -			S TYPE:		
	MOUNTING:					WIRES						RATING:		
	ENCLOSURE:	TYPE 1		M	AX # O	F POLES	<b>3:</b> 42				MCB	RATING:	100 A	
NOTE	S:						'			-				
[A] PR	OVIDE GROUND FAULT CIRC	CUIT INTERRUPTI	ER CIRCU	IIT BRE	AKERS	3.								
SEE S	PECIFICATION SECTION 'PA	NELBOARDS' FO	R FEATUF	RES OF	PANE	LBOARD	OS.							
VERIF	Y SIZE, QUANTITY AND TYP	ES OF CIRCUIT B	REAKERS	IN PA	NELBO	ARDS W	/ITH F	PLANS,	RISER	S, SCHE	DULES, AN	ID SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTIO	N TRIP	POLES		4	В			3	POLES	TRIP	CI	RCUIT DESCRIPTION	СКТ
1	RECEPTACLES	20 A	1	180	180					1	20 A	RECEPT	TACLES	2
3	RECEPTACLES	20 A	1			180	1220			1	20 A	SCALE	JP TABLE	4
5	SCALE UP TABLE	20 A	1					1220	1080	1	20 A	RECEPT	TACLES	6
7	SPARE	20 A	1	0	1080					1	20 A	RECEPT	TACLES	8
9	SCALE UP TABLE	20 A	1			1220	500			1	20 A	PROJEC	CTOR	10
11	PROJECTOR	20 A	1					500	500	1	20 A	PROJEC	CTOR	12
13	PROJECTOR	20 A	1	500	500					1	20 A	PROJEC	CTOR	14
15	PROJECTOR	20 A	1			500	1220			1	20 A	SCALE	JP TABLE	16
17	SCALE UP TABLE	20 A	1					1220	1220	1	20 A	SCALE	JP TABLE	18
19	SMARTBOARDS	20 A	1	360	0					1	20 A	SPARE		20
21	SPARE	20 A	1			0	0			1	20 A	SPARE		22
23	SPARE	20 A	1					0	0	1	20 A	SPARE		24
25	SPARE	20 A	1	0	0					1	20 A	SPARE		26
27	SPARE	20 A	1			0	0			1	20 A	SPARE		28
29	SPARE	20 A	1					0	0	1	20 A	SPARE		30
31	SPARE	20 A	1	0	0					1	20 A	SPARE		32
33	SPARE	20 A	1			0	0			1	20 A	SPARE		34
35	SPARE	20 A	1					0	0	1	20 A	SPARE		36
37	SPARE	20 A	1	0	0					1	20 A	SPARE		38
39	SPARE	20 A	1			0	0			1	20 A	SPARE		40
41	SPARE	20 A	1					0	0	1	20 A	SPARE		42
		TOTA	L LOAD:	280	0 VA	4840	VA	5740	) VA					
ı		TOTA	L AMPS:	23	3 A	43	A	50	Α	-				

	BRA	<b>NCH PA</b>	NEL:	<u>L</u> R	P-P	<u>1-3</u>								
	LOCATION:	SCALE UP LAB P	104		V	OLTAGE	: 120	0/208 W	ye		AISC	RATING:	65k	
	SUPPLY FROM:	LDP-P1				PHASES			,		MAIN	S TYPE:	MCB	
	MOUNTING:					WIRES	3: 4				MAINS	RATING:	100 A	
	ENCLOSURE:	TYPE 1		<u>M</u>	AX # OI	F POLES	<u>3:</u> 42				MCB	RATING:	100 A	
NOTE	S:						•			·				
[A] PR	OVIDE GROUND FAULT CIR	CUIT INTERRUPT	ER CIRCL	JIT BRE	AKERS	<b>S</b> .								
SEE S	PECIFICATION SECTION 'PA	NELBOARDS' FC	R FEATUR	RES OF	PANE	LBOARD	S.							
VERIF	Y SIZE, QUANTITY AND TYP	ES OF CIRCUIT E	REAKERS	IN PAI	NELBO	ARDS W	ITH F	PLANS, I	RISER	S, SCHED	ULES, AN	ID SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	N TRIP	POLES	,	4	В		C	:	POLES	TRIP	CI	RCUIT DESCRIPTION	СК
1	RECEPTACLES	20 A	1	180	180					1	20 A	RECEP	TACLES	2
3	RECEPTACLES	20 A	1			180	1220			1	20 A	SCALE	UP TABLE	4
5	SMARTBOARDS	20 A	1					360	720	1	20 A	RECEP	TACLES	6
7	SCALE UP TABLE	20 A	1	1220	1220					1	20 A	SCALE	UP TABLE	8
9	SCALE UP TABLE	20 A	1			1220	500			1	20 A	PROJEC	CTOR	10
11	PROJECTOR	20 A	1					500	500	1	20 A	PROJEC	CTOR	12
13	PROJECTOR	20 A	1	500	500					1	20 A	PROJEC	CTOR	14
15	PROJECTOR	20 A	1			500	1220			1	20 A	SCALE	UP TABLE	16
17	SCALE UP TABLE	20 A	1					1220	720	1	20 A	RECEP	TACLES	18
19	SPARE	20 A	1	0	720					1	20 A	RECEP	TACLES	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE		22
23	SPARE	20 A	1					0	0	1	20 A	SPARE		24
25	SPARE	20 A	1	0	0					1	20 A	SPARE		26
27	SPARE	20 A	1			0	0			1	20 A	SPARE		28
29	SPARE	20 A	1					0	0	1	20 A	SPARE		30
31	SPARE	20 A	1	0	0					1	20 A	SPARE		32
33	SPARE	20 A	1			0	0			1	20 A	SPARE		34
35	SPARE	20 A	1					0	0	1	20 A	SPARE		36
37	SPARE	20 A	1	0	0					1	20 A	SPARE		38
39	SPARE	20 A	1			0	0			1	20 A	SPARE		40
41	SPARE	20 A	1					0	0	1	20 A	SPARE		42
			AL LOAD:		O VA	4840		4020						
		ТОТ	AL AMPS:	38	3 A	41 A	4	34	Α					

ATELIER TEN

203-777-1400

85 WILLOW ST

P.O. BOX216

Philip.R. SHERMAN, P.E.

ELKINS, NH 03233

603-526-6190

444 WILMOT CENTER ROAD

	BRANC	H PAI	NEL:	<u>LR</u>	P-P	<u>1-3</u>								
	LOCATION: SCALE	E UP LAB P	104		٧	OLTAG	E: 120	/208 W	ye		AISC	RATING:	65k	
	SUPPLY FROM: LDP-P	1				PHASE	<b>S</b> : 3		-		MAIN	IS TYPE:	MCB	
	MOUNTING: RECE	SSED				WIRE	S: 4				MAINS	RATING:	100 A	
	ENCLOSURE: TYPE	1		<u>M</u>	AX # OI	F POLE	<b>S:</b> 42				MCB	RATING:	100 A	
NOTE	S:													
[A] PR	OVIDE GROUND FAULT CIRCUIT I	NTERRUPTI	ER CIRCL	JIT BRE	AKERS	3.								
SEE S	PECIFICATION SECTION 'PANELB	OARDS' FO	R FEATUR	RES OF	PANE	LBOAR	DS.							
VERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT BI	REAKERS	IN PAI	NELBO.	ARDS \	WITH P	LANS,	RISER	S, SCHED	ULES, AN	ID SPECIF	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES		4	E	3	(		POLES	TRIP	CII	RCUIT DESCRIPTION	СКТ
1	RECEPTACLES	20 A	1	180	180					1	20 A	RECEPT	ACLES	2
3	RECEPTACLES	20 A	1			180	1220			1	20 A	SCALE (	JP TABLE	4
5	SMARTBOARDS	20 A	1					360	720	1	20 A	RECEPT	ACLES	6
7	SCALE UP TABLE	20 A	1	1220	1220					1	20 A	SCALE (	JP TABLE	8
9	SCALE UP TABLE	20 A	1			1220	500			1	20 A	PROJEC	TOR	10
11	PROJECTOR	20 A	1					500	500	1	20 A	PROJEC	CTOR	12
13	PROJECTOR	20 A	1	500	500					1	20 A	PROJEC	TOR	14
15	PROJECTOR	20 A	1			500	1220			1	20 A	SCALE (	JP TABLE	16
17	SCALE UP TABLE	20 A	1					1220	720	1	20 A	RECEPT	ACLES	18
19	SPARE	20 A	1	0	720					1	20 A	RECEPT	ACLES	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE		22
23	SPARE	20 A	1					0	0	1	20 A	SPARE		24
25	SPARE	20 A	1	0	0					1	20 A	SPARE		26
27	SPARE	20 A	1			0	0			1	20 A	SPARE		28
29	SPARE	20 A	1					0	0	1	20 A	SPARE		30
	SPARE	20 A	1	0	0					1	20 A	SPARE		32
	SPARE	20 A	1			0	0			1	20 A	SPARE		34
35	SPARE	20 A	1					0	0	1	20 A	SPARE		36
	SPARE	20 A	1	0	0					1	20 A	SPARE		38
	SPARE	20 A	1			0	0			1	20 A	SPARE		40
41	SPARE	20 A	1					0	0	1	20 A	SPARE		42
		TOTA	L LOAD:	4520	0 VA	4840	AV C	4020	) VA					
		TOTA	L AMPS:	38	3 A	41	Α	34	Α					

	LOCATION: FI	RST - ELEC S1	18		٧	OLTAGE:	480/27	77 Wy	е		AISC	RATING:	35k	
	SUPPLY FROM: E0					PHASES:					MAIN	NS TYPE:	MLO	
	MOUNTING: SI					WIRES:					MAINS	RATING:	100 A	
	ENCLOSURE: TY	PE 1		<u>M</u>	AX # O	F POLES:	42							
IOTE														
	PECIFICATION SECTION 'FUS											ID CDECI	FICATIONS	
CKT	Y SIZE, QUANTITY AND TYPES  CIRCUIT DESCRIPTION	FUSE	POLES				INPLA			POLES				CKI
1	SPARE SPARE	20 A	1	0	<b>A</b>	В		C	•	1	20 A	SPARE	RCUIT DESCRIPTION	2 CKT
3	SPARE	20 A	1	0	0	0	0			1	20 A	SPARE		4
5	SPARE	20 A	1			0		0	0	1	20 A	SPARE		6
7	SPARE	20 A	1	0	0			0		1	20 A	SPARE		8
9	SPARE	20 A	1	3	0	0	0			1	20 A	SPARE		10
11	SPACE						-	0	0			SPACE		12
13	SPACE			0	0							SPACE		14
15	SPACE					0	0					SPACE		16
17	SPACE							0	0			SPACE		18
19	SPARE	20 A	1	0	0					1	20 A	SPARE		20
21	SPARE	20 A	1			0	0			1	20 A	SPARE		22
23	SPARE	20 A	1					0	0	1	20 A	SPARE		24
25	SPARE	20 A	1	0	0					1	20 A	SPARE		26
27	SPARE	20 A	1			0	0			1	20 A	SPARE		28
29	SPARE	20 A	1					0	0	1	20 A	SPARE		30
31	SPARE	20 A	1	0	0					1	20 A	SPARE		32
33	SPARE	20 A	1			0	0			1	20 A	SPARE		34
35	SPARE	20 A	1					0	0	1	20 A	SPARE		36
37	SPARE	20 A	1	0	0					1	20 A	SPARE		38
39	1ST FL LIGHTING	20 A	1			743	332			1	20 A	1ST FL	LIGHTING	40
41	2ND FL LIGHTING	20 A	1				1	127	475	1	20 A	2ND FL	LIGHTING	42
			AL LOAD:		VA	1075 V	A	602 \	VA					
		TOTA	L AMPS:	0	Α	4 A		3 A	4					
	BRAN	ICH PA	NEL:	<u>LP</u>	<u>P-D</u>	<u>C-1</u>							٨	
	LOCATION:				V	OLTAGE:	120/20	8 W v	re		AISC	RATING:	65k /1-1\	

	BRANC		<b>4</b> LL.							1			
	LOCATION:							/208 W	ye			<b>RATING</b> : 65k /1-1	
	SUPPLY FROM: LDP-D					PHASE						NS TYPE: MLO	
	MOUNTING: SURF					WIRE	_			<u> </u>	MAINS	RATING: 400 A	
	ENCLOSURE: TYPE	1		<u>M</u>	AX # OI	F POLE	<b>S:</b> 42						
NOTE													
-	OVIDE GROUND FAULT CIRCUIT II												
	PECIFICATION SECTION 'PANELB												
/ERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT B	REAKERS	IN PA	NELBO.	ARDS \	WITH P	LANS,	RISER	S, SCHED	ULES, AN	ND SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES	1	A	E	3	(	C	POLES	TRIP	CIRCUIT DESCRIPTION	CK
1	UPS EF-1 (EX)	20 A	1	500	500					1	20 A	UPS EF-2 (EX)	2
3						0	0						4
5	AC-2	100 A	3					0	0	3	100 A	AC-7	6
7				0	0								8
9						167	167						10
11	TOWER #1	30 A	3					167	167	3	40 A	TOWER #2	12
13				167	167								14
15						0	0						16
17	SPARE	100 A	3					0	0	3	100 A	SPARE	18
19				0	0								20
21						0	0						22
23	SPARE	40 A	3					0	0	3	30 A	SPARE	24
25				0	0								26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
			AL LOAD: AL AMPS:	133	3 VA	333	S VA	333	3 VA				

	IBUTION PA				OLTAG	E: 120	)/208 W	ve		AISC	RATING:	65k	
	FROM: SLDP-SG				PHASE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, -			S TYPE:		
	NTING: SURFACE				WIRE						RATING:		
ENCLO	SURE: TYPE 1		<u>M</u>	AX # O	F POLE	<b>S:</b> 42				МСВ	RATING:	400 A	
IOTES:						'							
A] PROVIDE GROUND FA	ULT CIRCUIT INTERRUPT	ER CIRCL	JIT BRE	EAKER	S.								
	TION 'PANELBOARDS' FO												
/ERIFY SIZE, QUANTITY A	ND TYPES OF CIRCUIT B	REAKERS	IN PA	NELBC	ARDS \	WITH F	PLANS,	RISER	S, SCHED	ULES, AN	ID SPECI	FICATIONS.	
CKT CIRCUIT DES	CRIPTION TRIP	POLES	1	A	E	3	(		POLES	TRIP	CI	RCUIT DESCRIPTION	СКТ
1			2260	4160									2
3 LRP-P1-4	100 A	3			5560	4520			3	100 A	LRP-P1-	5	4
5			0000	4500			5380	5020					6
7 9 LRP-P1-2	100 A	3	2800	4520	4840	4840			3	100 A	LRP-P1-	2	10
11	100 A	3			4040	4040	5740	4020	3	100 A	LKF-F I-	3	12
13			0	8490			3740	4020					14
15 SPARE	100 A	3			0	7210			3	225 A	LRP-P1-	1	16
17							0	7180	-				18
19			4300	0									20
21 LRP-P1-6	100 A	3			5160	0			3	60 A	SPARE		22
23							4700	0					24
25			0	0									26
27 SPARE	100 A	3			0	0			3	20 A	SPARE		28
29			0				0	0					30
31 33 CU (EX)	20 A	3	0	0	0	0			3	20 A	CU (EX)		34
35 CO (LX)	20 A					0	0	0		20 A			36
37			0	0									38
39 SPARE	20 A	3	-		0	0			3	225 A	SPARE		40
JJ JOI AINE													

	LOCATION: SCALE	UP LAB P1	116		٧	OLTAG	<b>E</b> : 120	/208 W	ye		AISC	RATING: 65k	
	SUPPLY FROM: LDP-P1					PHASE	<b>S</b> : 3		-		MAIN	IS TYPE: MCB	
	MOUNTING: RECES	SED				WIRE	<b>ES</b> : 4				MAINS	RATING: 100 A	
	ENCLOSURE: TYPE 1			<u>M</u>	AX # 0	F POLE	<b>S:</b> 42				MCB	RATING: 100 A	
NOTE	S:												
[A] PR	OVIDE GROUND FAULT CIRCUIT IN	ITERRUPTI	ER CIRCU	IIT BRE	EAKER	S.							
SEE S	PECIFICATION SECTION 'PANELBO	ARDS' FO	R FEATUF	RES OF	PANE	LBOAR	DS.						
VERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT BI	REAKERS	IN PA	NELBC	ARDS '	WITH F	LANS,	RISER	S, SCHED	ULES, AN	ID SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES		A	ı	3	(	3	POLES	TRIP	CIRCUIT DESCRIPTION	СКТ
1	SPARE	20 A	1	0	180					1	20 A	RECEPTACLES	2
3	RECEPTACLES	20 A	1			180	1220			1	20 A	SCALE UP TABLE	4
5	SCALE UP TABLE	20 A	1					1220	720	1	20 A	RECEPTACLES	6
7	RECEPTACLES	20 A	1	180	540					1	20 A	RECEPTACLES	8
9	SCALE UP TABLE	20 A	1			1220	500			1	20 A	PROJECTOR	10
11	PROJECTOR	20 A	1					500	500	1	20 A	PROJECTOR	12
13	PROJECTOR	20 A	1	500	500					1	20 A	PROJECTOR	14
15	PROJECTOR	20 A	1			500	1220			1	20 A	SCALE UP TABLE	16
17	SCALE UP TABLE	20 A	1					1220	1220	1	20 A	SCALE UP TABLE	18
19	SMARTBOARD	20 A	1	360	0					1	20 A	SPARE	20
21	RECEPTACLES	20 A	1			720	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1 1					0	0	1 1	20 A	SPARE	42

	LOCATION:				V	OLTAG	<b>SE</b> : 120	)/208 W	ve		AISC	RATING:	10k	
	SUPPLY FROM: ES-LD	P-SG				PHASE			, -			IS TYPE:		
	MOUNTING: SURF					WIRE						RATING:		
	ENCLOSURE: TYPE	1		M	AX # O	F POLE	<b>S</b> : 42						^	
NOTE				-									1-1	
[A] PR	ROVIDE GROUND FAULT CIRCUIT I	NTERRUPTE	ER CIRCL	JIT BRE	AKERS	S.							<u></u>	
SEE S	SPECIFICATION SECTION 'PANELB	OARDS' FOR	R FEATUR	RES OF	PANE	LBOAR	DS.							
VERIF	FY SIZE, QUANTITY AND TYPES OF	CIRCUIT BE	REAKERS	IN PA	NELBO	ARDS	WITH F	PLANS,	RISER	S, SCHED	ULES, AN	ND SPECI	FICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES		4	ı	В		C	POLES	TRIP	CI	RCUIT DESCRIPTION	СКТ
1	RECEPTACLES	20 A	1	360	360					1	20 A	RECEP	TACLES	2
3	RECEPTACLES	20 A	1			360	360			1	20 A	RECEP	TACLES	4
5	RECEPTACLES	20 A	1					360	360	1	20 A	RECEP	TACLES	6
7				667	667									8
9	RECEPTACLES	50 A	3			667	667			3	50 A	RECEP	TACLES	10
11								667	667					12
13	SPARE	20 A	1	0	0					1	20 A	SPARE		14
15	SPARE	20 A	1			0	0			1	20 A	SPARE		16
17	SPARE	20 A	1					0	0	1	20 A	SPARE		18
19	SPARE	20 A	1	0	0					1	20 A	SPARE		20
21	Other	20 A	1			1000	0			1	20 A	SPARE		22
23	Other	20 A	1					1000	1000	1	20 A	Other		24
25	Other	20 A	1	1000	0					1	20 A	SPARE		26
27	SPARE	20 A	1			0	0			1	20 A	SPARE		28
29	SPARE	20 A	1					0	0	1	20 A	SPARE		30
31	SPARE	20 A	1	0	0					1	20 A	SPARE		32
33	SPARE	20 A	1			0	0			1	20 A	SPARE		34
35	SPARE	20 A	1					0	0	1	20 A	SPARE		36
37				0	0									38
39	FUTURE PANEL	100 A	3			0	0			3	100 A	FUTUR	E PANEL	40
41								0	0					42

	LOCATION: FIRST	- MECH/EL	EC P101		V	OLTAG	<b>E</b> : 120	)/208 W	ye		AISC	RATING: 65k	
	SUPPLY FROM: LDP-P					PHASE			<i>,</i> -			NS TYPE: MLO	
	MOUNTING: SURFA	CE				WIRE	S: 4				MAINS	RATING: 225 A	
	ENCLOSURE: TYPE 1			M	AX # OI								
NOTE													
A] PR	OVIDE GROUND FAULT CIRCUIT IN	ITERRUPT	ER CIRCU	IIT BRE	AKERS	3.							
SEE S	PECIFICATION SECTION 'PANELBO	DARDS' FO	R FEATUF	RES OF	PANE	LBOAR	DS.						
/ERIF	Y SIZE, QUANTITY AND TYPES OF	CIRCUIT B	REAKERS	IN PA	NELBO	ARDS \	NITH F	LANS,	RISER	S, SCHEDI	ULES, Al	ND SPECIFICATIONS.	
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES		4	E	3	(	:	POLES	TRIP	CIRCUIT DESCRIPTION	СКТ
1	[A] - EWC-4	20 A	1	370	1000	•				1	20 A	FCU-P1-3	2
3	POKE-THRU	20 A	1			720	1080			1	20 A	RECEPTACLES	4
5	[A] - EWC-4	20 A	1					370	1000	1	20 A	HAND DRYER	6
7	RECEPTACLES	20 A	1	1720	900					1	20 A	RECEPTACLES	8
9	RECEPTACLES	20 A	1			720	250						10
11	RECEPTACLES	20 A	1					1260	250	2	20 A	HEAT TRACE ROOF GUTTERS	12
13	HAND DRYER	20 A	1	1000	500					1	20 A	EF-P1-1	14
15			_			250	1000			1	20 A	HAND DRYER	16
17	HEAT TRACE ROOF GUTTERS	20 A	2					250	1400	1	20 A	RECEPTACLES	18
19	FCU-P1-1	20 A	1	1000	750								20
21	FCU-P1-2	20 A	1			1000	750			2	20 A	P-AHUP1B	22
23	HAND DRYER	20 A	1					1000	750				24
25	GMU-AHUP1	20 A	1	500	750					2	20 A	P-AHUP1A	26
27	POKE-THRU	20 A	1			720	720			1	20 A	POKE-THRU	28
29	POKE-THRU	20 A	1					720	180	1	20 A	ROOF MOUNTED RECEPTACLE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPARE	20 A	1	0	0					1	20 A	SPARE	50
51	SPARE	20 A	1			0	0			1	20 A	SPARE	52
53	SPARE	20 A	1					0	0	1	20 A	SPARE	54
55	SPARE	20 A	1	0	0					1	20 A	SPARE	56
57	SPACE					0	0					SPACE	58
59	SPACE							0	0			SPACE	60
61	SPACE			0	0							SPACE	62
63	SPACE					0	0					SPACE	64
65	SPACE	-						0	0			SPACE	66
67	SPARE	20 A	1	0	0					1	20 A	SPARE	68
69	SPARE	20 A	1			0	0			1	20 A	SPARE	70
71	SPARE	20 A	1					0	0	1	20 A	SPARE	72
73	SPARE	20 A	1	0	0					1	20 A	SPARE	74
75	SPARE	20 A	1			0	0			1	20 A	SPARE	76
77	SPARE	20 A	1					0	0	1	20 A	SPARE	78
79	SPARE	20 A	1	0	0					1	20 A	SPARE	80
81	SPARE	20 A	1			0	0			1	20 A	SPARE	82
83	SPARE	20 A	1					0	0	1	20 A	SPARE	84
			L LOAD:	8490	) VA	7210	) VA	7180	) VA				
		TOTA	L AMPS:	71	Α	60	Α	60	Α				

	<b>FUSED COORDINAT</b>	ION PA	NEL:	EC.	<u>·HLP</u>	<u>-SG</u>								
	LOCATION: MAIN	ELEC EM R	OOM		٧	OLTAGI	<b>E:</b> 48	30/277 W	ye		AISC F	RATING:	65k	
	SUPPLY FROM: EC-HI	DP-SG				PHASES	<b>S</b> : 3				MAIN	S TYPE:	MLO	
	MOUNTING: SURF	ACE				WIRE	S: 4				MAINS F	RATING:	225 A	
	ENCLOSURE: TYPE	1		M	IAX#O	F POLES	<u>S:</u> 42	2						
NOTE	S:													
	SPECIFICATION SECTION 'FUSED													
VERIF	FY SIZE, QUANTITY AND TYPES OF	CIRCUIT B	REAKERS	IN PA	NELBC	ARDS V	/ITH	PLANS,	RISER	S, SCHEE	DULES, AN	D SPEC	IFICATIONS.	
CKT	CIRCUIT DESCRIPTION	FUSE	POLES		A	В	1	C		POLES	FUSE	C	IRCUIT DESCRIPTION	СКТ
1	LIGHTING	20 A	1	1072	1644					1	20 A	CLASSI	ROOM LIGHTING	2
3	LIGHTING	20 A	1			270	1017	•		1	20 A	LAB LIG	SHTING	4
5	LAB LIGHTING	20 A	1					1314	0	1	20 A	EXIT SI	GNS	6
7	LIGHTING	20 A	1	742	0					1	20 A	EXIT SI	GNS	8
9	LIGHTING	20 A	1			220	500			1	20 A	SITE LI	GHTING	10
11	SITE LIGHTING	20 A	1					0	500	1	20 A	SITE LI	GHTING	12
13	UITS LIGHTING	20 A	1	0	179					1	20 A	UITS LI	GHTING	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE		16
17	SPARE	20 A	1					0	0	1	20 A	SPARE		18
19	SPARE	20 A	1	0	0					1	20 A	SPARE		20
21	SPARE	20 A	1			0	0			1	20 A	SPARE		22
23	SPARE	20 A	1					0	0	1	20 A	SPARE		24
25	SPARE	20 A	1	0	0					1	20 A	SPARE		26
27	SPARE	20 A	1			0	0			1	20 A	SPARE		28
29	SPACE							0	0			SPACE		30
31	SPACE			0	0							SPACE		32
33	SPACE					0	0					SPACE		34
35	SPACE							0	0			SPACE		36
37	SPACE			0	0							SPACE		38
39	SPACE					0	0					SPACE		40
41	SPACE							0	0			SPACE		42
	1	TOTA	L LOAD:	363	B6 VA	2006	VA	1814	1 VA			1		
		TOTA	L AMPS:	1:	3 A	7 /	١	7	A	_				

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**ELECTRICAL PANELBOARD SCHEDULE NOTES** 

PANELBOARD SCHEDULES ARE ISSUED WTH BID DOCUMENTS FOR USE BY THE CONTRACTOR DURING CONSTRUCTION. AFTER ISSUANCE OF BID DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UPDATED PANEL SCHEDULES THAT REFLECT INSTALLED CONDITIONS AND MODIFICATIONS TO THE BID DOCUMENTS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ISSUING UPDATED SCHEDULES DURING THE CONSTRUCTION ADMINISTRATION PROCESS UNLESS DEEMED NECESSARY BY THE ENGINEER. IF DEEMED NECESSARY, SPECIFIC MODIFICATIONS SHALL NOT BE IDENTIFIED.

- ALL CIRCUIT BREAKERS INDICATED FOR HVAC, PLUMBING, OR OWNER/OWNER'S VENDOR FURNISHED EQUIPMENT SHALL BE COORDINATED WITH ASSOCIATED
- CONTRACTOR/INSTALLER. REFER TO BRANCH CIRCUIT WIRING SCHEDULE ON DRAWING #E-800-S FOR WIRING REQUIREMENTS FOR ASSOCIATED CIRCUIT BREAKER SIZES.

UNIVERSITY OF CONNECTICUT

GOODYCLANCY Mitchell | Giurgola Architects, LLP

ARCHITECT: Mitchell | Giurgola Architects, LLP 630 Ninth Avenue, Suite 711 New York, New York 10036 212 663 4000

ARCHITECT: Goody Clancy 420 Boylston St. Boston, MA 02116 617 262 2760

50 Griffin Road South

STRUCTURAL ENGINEER: ROBERT SILMAN ASSOCIATES 111 Devonshire St Boston, Massachsetts MEP ENGINEER: BVH Integrated Services 50 Griffin Road South Bloomfield, Connecticut 06002 860-286-9171 SITE | CIVIL ENGINEER: BVH Integrated Services

Bloomfield, Connecticut 06002

860-286-9171

FUSED COORDINATION PANEL: <u>EC-HLP-P1</u>

SEE SPECIFICATION SECTION 'FUSED SELECTIVE PANELBOARDS' FOR FEATURES OF PANELBOARDS.

**DISTRIBUTION PANEL: ES-LDP-S1** 

SUPPLY FROM: ES-LDP-SG

ENCLOSURE: TYPE 1

3 CS8365 RECEPTACLE

7 RECEPTACLES

15 Other

3 SPARE 5 SPARE 7 SPARE 9 SPARE

11 SPARE 13 SPARE 15 SPARE 17 SPARE 19 SPARE 21 SPARE 23 SPARE 25 SPARE 27 SPARE 29 SPARE 31 SPARE 33 SPARE 35 SPARE

37 CLASSROOM LIGHTING 39 1ST FL LIGHTING 41 GND FL LIGHTING

9 RECEPTACLES 11 RECEPTACLES 13 DOOR OPERATOR

MOUNTING: SURFACE

[A] PROVIDE GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKERS.

SEE SPECIFICATION SECTION 'PANELBOARDS' FOR FEATURES OF PANELBOARDS.

**VOLTAGE**: 480/277 Wye

PHASES: 3

**MAX # OF POLES:** 42

VERIFY SIZE, QUANTITY AND TYPES OF CIRCUIT BREAKERS IN PANELBOARDS WITH PLANS, RISERS, SCHEDULES, AND SPECIFICATIONS.

20 A 1 0 0

**TOTAL LOAD:** 1494 VA 1432 VA 0 VA TOTAL AMPS: 6 A 6 A 0 A

20 A 1 0 0

20 A 1 0 0 1

WIRES: 4

CKT CIRCUIT DESCRIPTION FUSE POLES A B C POLES FUSE CIRCUIT DESCRIPTION CKT

20 A 1 585 909 1 20 A 1ST FL LIGHTING

0 0 1 20 A SPARE 1 20 A SPARE

0 0 1 20 A SPARE

20 A 1 0 0 1 20 A SPARE

20 A 1 0 0 1 20 A SPARE

 20 A
 1
 0
 0
 1
 20 A
 SPARE

 20 A
 1
 0
 0
 1
 20 A
 SPARE

 20 A
 1
 0
 0
 1
 20 A
 SPARE

20 A 1 0 0 0 1 20 A SPARE

20 A 1 0 0 0 1 20 A SPARE

20 A 1 1 20 A SPARE

 20 A
 1
 0
 0
 1
 20 A
 SPARE

 20 A
 1
 0
 0
 1
 20 A
 SPARE

**VOLTAGE:** 120/208 Wye

PHASES: 3

MAX # OF POLES: 42

VERIFY SIZE, QUANTITY AND TYPES OF CIRCUIT BREAKERS IN PANELBOARDS WITH PLANS, RISERS, SCHEDULES, AND SPECIFICATIONS.

 15
 Other
 20 A
 1
 500
 500
 1
 20 A
 Other

 17
 DRY PIPE AIR COMPRESSOR
 20 A
 1
 1000
 0
 1
 20 A
 SPARE

 19
 SPARE
 20 A
 1
 0
 0
 1
 20 A
 SPARE

 21
 SPARE
 20 A
 1
 0
 0
 1
 20 A
 SPARE

 23
 SPARE
 20 A
 1
 0
 0
 1
 20 A
 SPARE

 25
 SPARE
 20 A
 1
 0
 0
 1
 20 A
 SPARE

 27
 SPARE
 20 A
 1
 0
 0
 1
 20 A
 SPARE

 29
 SPARE
 20 A
 1
 0
 0
 1
 20 A
 SPARE

 31
 SPARE
 20 A
 1
 0
 0
 1
 20 A
 SPARE

 33
 SPARE
 20 A
 1
 0
 0
 1
 20 A

**BRANCH PANEL: HLP-P1** 

LOCATION: MECH. RM P101

[A] PROVIDE GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKERS.

SEE SPECIFICATION SECTION 'PANELBOARDS' FOR FEATURES OF PANELBOARDS.

SUPPLY FROM: HDP-SG

ENCLOSURE: TYPE 1

MOUNTING: SURFACE

**TOTAL AMPS:** 15 A 15 A 15 A

**VOLTAGE**: 480/277 Wye

PHASES: 3

WIRES: 4

MAX # OF POLES: 42

CKT CIRCUIT DESCRIPTION TRIP POLES A B C POLES TRIP CIRCUIT DESCRIPTION

 TOTAL LOAD:
 2352 VA
 2535 VA
 3210 VA

 TOTAL AMPS:
 8 A
 9 A
 12 A

VERIFY SIZE, QUANTITY AND TYPES OF CIRCUIT BREAKERS IN PANELBOARDS WITH PLANS, RISERS, SCHEDULES, AND SPECIFICATIONS.

50 A 3 60 60

20 A 1 360 360 1

WIRES: 4

CKT CIRCUIT DESCRIPTION TRIP POLES A B C POLES TRIP CIRCUIT DESCRIPTION CKT 60 60

60 60

20 A 1 360 360 1 20 A RECEPTACLES

20 A 1 500 500 1 20 A RECEPTACLES

20 A 1 500 500 1 20 A DOOR OPERATOR

20 A 1 500 500 1 20 A Other

AISC RATING: 14k

MAINS TYPE: MLO

MAINS RATING: 100 A

20 A 1ST FL LIGHTING

20 A SPARE

AISC RATING: 10k

MAINS RATING: 225 A

3 50 A CS8365 RECEPTACLE

20 A RECEPTACLES

AISC RATING: 35k

MAINS TYPE: MCB

MAINS RATING: 100 A

MCB RATING: 100 A

MAINS TYPE: MCB

1 20 A SPARE

LOCATION: PLAZA - MECH/ELEC P101

SUPPLY FROM: EC-HDP-SG

**ENCLOSURE**: TYPE 1

1 GND FL LIGHTING 3 1ST FL LIGHTING

5 SPARE

7 SPARE

9 SPARE

11 SPARE

13 SPARE

15 SPARE

17 SPARE

19 SPARE 21 SPARE 23 SPARE

25 SPARE

27 SPARE

29 SPARE

31 SPARE

33 SPARE 35 SPARE

37 SPARE

39 SPARE 41 SPARE MOUNTING: SURFACE

LIGHTING SUSTAINABILITY CONSULTANT: SPECIFIC ATIONS: WILSPEC LLC 195 Church Street, 10th Floor LYNNFIELD MEDICAL OFFICE BUILDING New Haven, Connecticut 06510 15 POST OFFICE SQUARE LYNNFIELD, MA 01940 784-598-6789 LANDSCAPE ARCHITECT TOWERS|GOLDE LLC CONSTRUCTION MANAGER WHITING-TURNER CONSTRUCTION CO. NEW HAVEN CT 06511 123 CHURCH STREE, 10TH FLOOR 203-773-1153 x322 NEW HAVEN, CT 06510 203-777-6783 CODE CONSULTANT

TOTAL AMPS: 19 A 50 A



GANT BUILDING RENOVATIONS-STEM PHASE 1

ELECTRICAL SCHEDULES DATE: 04/03/2017 PROJECT NO: 9920 PHASE: 100% CONSTRUCTION DOCUMENTS SCALE: 12" = 1'-0"

CHECKED BY: AV

DRAWN BY: LEM

2/6/2018 4:36:06 PM E:\REVIT\2115071\2115071 - MEP - V16 (RR).rvt



Job #: 015896.005 901803 - Gant Building Renovations - STEM - Phase 1 196 Auditorium Road Storrs, Connecticut 06269

### **RFI LOG**

# Sub	pject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Cost Impact Code	Cost Impact
	sing Beam Dimensions - S-110, S-111, 12, S-113, S-115	Closed	Shepard Steel Co	Cote, Derek (Shepard Steel Co., Inc.)	Bresler, Jenna (R	08/30/2017	Brian White	09/06/2017	09/06/17				
	Derek Cote Sent Fri Aug 25, 2017 at 0 Shepard Steel requests missing dime 1. S-110: Missing beam dimensions a	nsions or	n the following sh										
Q:	S-111: a. Missing dimensions betw b. Missing beam dimensions I 3. S-112, Second Floor - South: Missin 4. S-112, Third Floor - South: Missing	een exist between on g beam din g beam di sions bet	ing concrete bea grid lines F, G, ar dimensions along nensions along g imensions along ween RT-1's	ms between grid lines J and L.5. Id below 15. Ig grid line 16 and between lines E.5 and rid line 16 and between lines E.5 and F.5 grid line 16 and between lines F and F.5	5.								
	Refer to comments on drawings attac UCONN Gant - SSCI RFI #3.pdf	ched.											
A	Geoffrey Meier (Goody, Clancy and As See attached pdf for dimensions. All requirements. Arch to review all dime Silman/jb & GCA/gm 9.6.17 16728 2017-08-30 Silman Response	existing o	dimensions are b nce contractor's i	ased upon existing drawings and are to means&methods are determined and di	be verified i imensions ar	n the field by cont re established by	tractor. All fran the coordinatio	ning around MEP r n team.	nust be coordinat	ed and reviewed v	vith MEP cor	nsultant for shaft	
. Miss	sing Structural Steel Member Sizes	Closed	Shepard Steel Co	Cote, Derek (Shepard Steel Co., Inc.)	Bresler, Jenna (R	08/28/2017	Brian White	09/05/2017	08/31/17		Gant South Wing		_
	Derek Cote Sent Fri Aug 25, 2017 at 0 Shepard Steel requests confirmation			attached drawings S-112 and S-113.									
Q:	Member Size Missing - Drawing S-112			etween grid lines F and F.5 and next to g ween grid lines F and F.5 and next to gr									
A	Geoffrey Meier (Goody, Clancy and A: Suggested size of W10x19 for Second Silman/jb & GCA/gm 8.30.17			Aug 31, 2017 at 02:37 pm UTC .4 is called out on S-113 in location indic	cated and is	approved.							
Dim and	nensional Discrepancies Between S-110 S-111	Closed	Shepard Steel Co	Cote, Derek (Shepard Steel Co., Inc.)	Bresler, Jenna (R	08/30/2017	Brian White	09/06/2017	09/06/17				_
	Derek Cote Sent Fri Aug 25, 2017 at 0 Shepard Steel requests verification of			es between drawings S-110 and S-111.	Refer to note	es in attached dra	wing.						
Q:	a. Ignore comment a.				limonsions								

b. Drawing S-110 notes dimension 6'-2 3/4", but drawing S-111 notes dimension of 6'-2 7/8". Confirm dimensions. c. Drawing S-110 notes dimension 6'-5 1/2", but drawing S-111 notes dimension of 6-5". Confirm dimensions.

Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:39 pm UTC See attached pdfs for dimensional information.

16728 2017-08-30 Silman Response to RFI #005 Dimensional Discrepancies.pdf

d. Ignore comment d. UCONN Gant - SSCI RFI #5.pdf

Silman/jb & GCA/gm 9.6.17



Job #: 015896.005 901803 - Gant Building Renovations - STEM - Phase 1 196 Auditorium Road

WHITING-TURNER

Storrs, Connecticut 06269

Whiting-Turner: SHELTON

2	# Sul	oject	Status Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact		Cost Impact
Shepard Seel requests clarification on top of slab and top of seel elevations on attached drawing S-L10.  Shepard Seel requests clarification on top of slab and social slab slab slab slab slab slab slab sl	2 Top	of Slab & Top of Steel Discrepancy		Cote, Derek (Shepard Steel Co., Inc.)		08/28/2017	Brian White	09/05/2017	08/31/17					
Pages from Cast - Chase 1 - Conformal Section 11. 16. and 18. the elevations for up of slab and top of steel are both 604*5.34.4*. Piesse confirm the correct elevations.  Geoffrey Meler (Goody, Clancy and Associates) Responded find Aug 31. 2017 at 025.25 m UTC  Geoffrey Meler (Goody, Clancy and Associates) Responded find Aug 31. 2017 at 025.25 m UTC  Geoffrey Meler (Goody, Clancy and Associates) Responded find Aug 31. 2017 at 025.25 m UTC  Geoffrey Meler (Goody, Clancy and Associates) Responded find Aug 31. 2017 at 025.11 m UTC  Shepard Steel notes that base place designation is missing from drawing A-114 at grid line C/N and between C/K and L5. Confirm base plate at this location is type BFL3. Additionally, confirm 3/4* dia. anchor rods are to be used as per per hybrid and the place of the confirmation of the con	0.	Shepard Steel requests clarification of		eel elevations on attached drawing S-13	10.									
As Seltom of slab was accidentally target on S-110. Top of abla elevation is 604'-11'. Steel elevations are correct at 604'-5.73'.    Figure 1	۷.	Drawing S-110, between grid lines G,			oth 604'-5 3/4	1". Please confirm	the correct ele	vations.						
Perick Cross Sent First, Jug 25, 2017 at 80.45 am EDT Shepard Steel notes that base plate designation is missing from drawing A 114 at grid line C/N and between C/K and 1.5. Confirm base plate at this location is type BFL3. Additionally, confirm 3/4" dia. anchor rods are to be used as periper portube Column.*  UCONN Gant. *5SCI RIF #8 pdf  Geoffrey Meier (Goody, Clancy and Associates) Responded Thu Aug 31, 2017 at 03:11 pm UTC Yes, missing call out for base plate should match the cher light court base plates in RPL3.  At All base plates to use 3/4 diameter anchor rods unless specifically called of und reawings. (See attached)  16728 2017 08-30 Silman Response to RFI #005 Light Court Base Plates & Anchor Bolts pdf  7 Top of Steel and Dimensional Questions  Closed Shepard Steel Court Sent First Aug 25, 2017 at 08-49 am EDT  Q: Shepard Steel requests dimensions and edevations on drawing 5-114 for beams located above grid line C/N and to left of C/K as noted in attached drawing.  UCONN Gant. *5SCI RIF #9 pdf  A: Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:40 pm UTC  To Steel is to be located around mechanical openings in floor, to be coordinated with MEP scope. Top of beams are to be 1" below bottom of existing plaza structural slab, which is to be verified in field, and then dry-packed tight to understood of Steel is to be located around mechanical openings.  A: Indicated of slab for support of cut slab around mechanical openings in floor, to be coordinated with MEP scope. Top of beams are to be 1" below bottom of existing plaza structural slab, which is to be verified in field, and then dry-packed tight to understood of slab for support of cut slab around mechanical openings.  A: Understood of Stab for support of cut slab around mechanical openings. Geoffrey medical devance of slab for support of cut slab around mechanical openings. Geoffrey medical devance of slab for support of cut slab around mechanical openings. Geoffrey Steel Report of Stab and beam blacements which the Desi	Α	Bottom of slab was accidentally tagg			re correct at 6	504'-5.75".								
Shepard Steel notes that base plate designation is missing from drawing A-114 at grid line C/N and between C/K and I.5. Confirm base plate at this location is type BPL3. Additionally, confirm 3/4" dia. anchor rods are to be used as perfect piece of Tibe Column.*  VCOM Cant. SSCI RPI #8.pdf  Geoffrey Meler (Goody, Clancy and Associates) Responded Thu Aug 31, 2017 at 03:11 pm UTC Yes, missing call out for base plate so bus e3/4 diameter anchro rods unless specifically called out on drawings. (see attached) Silmanijb & GCAUgm 8.3.1.7  Top of Steel and Dimensional Questions  Closed  Shepard Steel Co  Shepard Steel Co  Shepard Steel on Associates (Shepard Steel) Co  Shepard Steel on Associates) Responded Web Sep 6. 2017 at 03:40 pm UTC Steel so be located anomal mesponare to RFI #9.00f  A: Geoffrey Meler (Goody, Clancy and Associates) Responded Web Sep 6. 2017 at 03:40 pm UTC Steel is to be located anomal mesponare to RFI #9.00f  Geoffrey Meler (Goody, Clancy and Associates) Responded Web Sep 6. 2017 at 03:31 pm UTC Steel is to be located anomal mesponare to RFI #9.00f  A: Geoffrey Meler (Goody, Clancy and Associates) Responded Web Sep 6. 2017 at 03:31 pm UTC Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f  A: Geoffrey Meler (Goody, Clancy and Associates) Responded Web Sep 6. 2017 at 03:31 pm UTC Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be located anomal mesponare to RFI #9.00f Steel is to be l	6 Ligh	nt Court Base Plates & Anchor Bolts		Cote, Derek (Shepard Steel Co., Inc.)		08/30/2017	Brian White	09/06/2017	08/31/17					
*** Pres, missing call out for base plate should match the other light court base plates, BPL3.  **Ar All base plates to use 34* diameter anchor rots unless specifically called out on drawings. (see attached)  **Intra 2017-08-30 Silman/jb & GCA/gm 8.31.17  **To prof Steel and Dimensional Questions**  **Closed** Closed**  **Closed** Shepard Steel**  **Closed** Shep	Q:	Shepard Steel notes that base plate of per "Typical Column Base Plate Pipe of the Pipe of	designation is missing from	n drawing A-114 at grid line C/N and bet	tween C/K and	d I.5. Confirm bas	e plate at this l	ocation is type E	BPL3. Additionally, c	onfirm 3/4" dia. a	nchor rods a	are to be used	as	
Derek Cote Sent Fri Aug 25, 2017 at 08:349 am EDT  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:40 pm UTC  10 Shepard Steel requests dimensions and elevations on drawing 5-114 for beams located above grid line C/N and to left of C/K as noted in attached drawing.  10 UCONN Gant - SSCI RFI #9 pdf  A: Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:40 pm UTC  10 Steel is to be located around mechanical openings in floor, to be coordinated with MEP scope. Top of beams are to be 1" below bottom of existing plaza structural slab, which is to be verified in field, and then dry-packed tight to underside of slab for support of cut slab around mechanical openings.  A: Once the contractors means & methods are determined (i.e. confirm duct dimensions, duct supports, fireproofing thicknesses, sawcutting clearances, flange widths, etc.) along with confirming as-built dimensions the coordination team can develop by local clearance dimensions for these mechanical openings, edge of slab and beam placements which the Design Team can vet.  10 Silman/jb & GCA/gm 9/6/17  20 Derek Cote Sent Fri Aug 25, 2017 at 08:51 am EDT  21 Shepard Steel requests dimensions of the channel in section 4 on drawing S-402. Refer to attached drawing for Shepard Steel on the confirm column locations once existing dimensions are obtained.  22 Shepard Steel requests dimensions of the channel in section 4 on drawing S-402. Refer to attached drawing for Shepard Steel notes.  23 Light Court Evisting Response to RFI #008 Missing Channel Dimension.pdf  33 Light Court Evisting Response to RFI #008 Missing Channel Dimension.pdf	Α	Yes, missing call out for base plate sh All base plates to use 3/4" diameter a Silman/jb & GCA/gm 8.31.17	ould match the other light anchor rods unless specific	court base plates, BPL3. ally called out on drawings. (see attach	ned)									
Q: Shepard Steel requests dimensions and elevations on drawing S-114 for beams located above grid line C/N and to left of C/K as noted in attached drawing.    Cookin Sant-SSCIRF #9.pdf	7 Тор	of Steel and Dimensional Questions		Cote, Derek (Shepard Steel Co., Inc.)		08/30/2017	Brian White	09/06/2017	09/11/17					
A: 16728 2017-08-31 Silman Response to RFI #007 Top of Steel and Dim Question.pdf  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:31 pm UTC Steel is to be located around mechanical openings in floor, to be coordinated with MEP scope. Top of beams are to be 1" below bottom of existing plaza structural slab, which is to be verified in field, and then dry-packed tight to underside of slab for support of cut slab around mechanical openings.  A: Once the contractors means & methods are determined (i.e. confirm duct dimensions, duct supports, fireproofing thicknesses, sawcutting clearances, flange widths, etc.) along with confirming as-built dimensions the coordination team can develop typical clearance dimensions for these mechanical openings, edge of slab and beam placements which the Design Team can vet.  Silman/jb & GCA/gm 9/6/17  Brian White 09/06/2017 09/06/17  Perek Cote Sent Fri Aug 25, 2017 at 08:51 am EDT  Oerek Cote Sent Fri Aug 25, 2017 at 08:51 am EDT  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:33 pm UTC The dimensions are based upon existing conditions of the perimeter concrete beams around the light court which the contractor needs to be verify in the field. These dimensions may vary around the light court. Architect can confirm column locations once existing dimensions are obtained.  Silman/jb & GCA/gm 9.6.17  16728 2017-08-31 Silman Response to RFI #008 Missing Channel Dimension.pdf  3 Light Court Existing Ream Size. Closed Shepard Steel Cote Derek (Shepard Steel Cote). Bresler, 08/28/2017 Brian White 09/05/2017 09/05/2017 08/31/17	Q:	Shepard Steel requests dimensions a		5-114 for beams located above grid line	e C/N and to le	eft of C/K as note	d in attached di	rawing.						
Steel is to be located around mechanical openings in floor, to be coordinated with MEP scope. Top of beams are to be 1" below bottom of existing plaza structural slab, which is to be verified in field, and then dry-packed tight to underside of slab for support of cut slab around mechanical openings.  Once the contractors means & methods are determined (i.e. confirm duct dimensions, duct supports, fireproofing thicknesses, sawcutting clearances, flange widths, etc.) along with confirming as-built dimensions the coordination team can develop typical clearance dimensions for these mechanical openings, edge of slab and beam placements which the Design Team can vet.  Silman/jb & GCA/gm 9/6/17  Brian White 09/06/2017 09/06/17  Oerek Cote Sent Fri Aug 25, 2017 at 08:51 am EDT Shepard Steel requests dimensions of the channel in section 4 on drawing 5-402. Refer to attached drawing for Shepard Steel notes.  UCONN Gant - SSCI RFI #10.pdf  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:33 pm UTC The dimensions are based upon existing conditions of the perimeter concrete beams around the light court which the contractor needs to be verify in the field. These dimensions may vary around the light court. Architect can confirm column locations once existing dimensions are obtained.  Silman/jb & GCA/gm 9.6.17 16728 2017-08-31 Silman Response to RFI #008 Missing Channel Dimension.pdf  Bresler, 08/28/2017 Brian White 09/05/2017 08/31/17	Α													
Once the contractors means & methods are determined (i.e. confirm duct dimensions, duct supports, fireproofing thicknesses, sawcutting clearances, flange widths, etc.) along with confirming as-built dimensions the coordination team can develop typical clearance dimensions for these mechanical openings, edge of slab and beam placements which the Design Team can vet.  8 Missing Channel Dimension - S-402 Section 4 Closed Shepard Steel Co Cote, Derek (Shepard Steel Co., Inc.) Bresler, Jenna (R 08/30/2017 Brian White 09/06/2017 09/06/17  9: Derek Cote Sent Fri Aug 25, 2017 at 08:51 am EDT Shepard Steel requests dimensions of the channel in section 4 on drawing 5-402. Refer to attached drawing for Shepard Steel notes.  UCONN Gant - SSCI RFI #10.pdf  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:33 pm UTC The dimensions are based upon existing conditions of the perimeter concrete beams around the light court which the contractor needs to be verify in the field. These dimensions may vary around the light court. Architect can confirm column locations once existing dimensions are obtained. Silman/jb & GCA/gm 9,6.17 16728 2017-08-31 Silman Response to RFI #008 Missing Channel Dimension.pdf  8 Idiply Court Existing Beam Size Closed Shepard Steel Court Perek (Shepard Ste	_	Steel is to be located around mechan underside of slab for support of cut sl	ical openings in floor, to be	e coordinated with MEP scope. Top of be	eams are to b	e 1" below bottor	n of existing pla	aza structural sl	ab, which is to be ve	erified in field, and	l then dry-p	acked tight to		
Derek Cote Sent Fri Aug 25, 2017 at 08:51 am EDT Shepard Steel requests dimensions of the channel in section 4 on drawing S-402. Refer to attached drawing for Shepard Steel notes.  UCONN Gant - SSCI RFI #10.pdf  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:33 pm UTC The dimensions are based upon existing conditions of the perimeter concrete beams around the light court which the contractor needs to be verify in the field. These dimensions may vary around the light court. Architect can confirm column locations once existing dimensions are obtained.  Silman/jb & GCA/gm 9.6.17 16728 2017-08-31 Silman Response to RFI #008 Missing Channel Dimension.pdf  3 Light Court Existing Ream Size  Closed Shepard Steel  Cote, Derek (Shepard Steel Co. Inc.)  Brian White 09/05/2017 08/31/17	-	Once the contractors means & method team can develop typical clearance of							s, etc.) along with c	onfirming as-built	dimensions	s the coordina	tion	
Q: Shepard Steel requests dimensions of the channel in section 4 on drawing S-402. Refer to attached drawing for Shepard Steel notes.  UCONN Gant - SSCI RFI #10.pdf  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:33 pm UTC  The dimensions are based upon existing conditions of the perimeter concrete beams around the light court which the contractor needs to be verify in the field. These dimensions may vary around the light court. Architect can confirm column locations once existing dimensions are obtained.  Silman/jb & GCA/gm 9.6.17  16728 2017-08-31 Silman Response to RFI #008 Missing Channel Dimension.pdf  3. Light Court Existing Ream Size. Closed Shepard Steel Court Perek (Shepard	8 Mis	sing Channel Dimension - S-402 Section 4		Cote, Derek (Shepard Steel Co., Inc.)		08/30/2017	Brian White	09/06/2017	09/06/17					
The dimensions are based upon existing conditions of the perimeter concrete beams around the light court which the contractor needs to be verify in the field. These dimensions may vary around the light court. Architect can confirm column locations once existing dimensions are obtained.  Silman/jb & GCA/gm 9.6.17  16728 2017-08-31 Silman Response to RFI #008 Missing Channel Dimension.pdf  3 Light Court Existing Ream Size  Closed Shepard Steel  Cote Derek (Shepard Steel Co. Inc.)  Bresler, 08/28/2017 Brian White 09/05/2017 08/31/17	Q:	Shepard Steel requests dimensions of		on drawing S-402. Refer to attached dra	awing for She	pard Steel notes.								
	Α	The dimensions are based upon exist confirm column locations once existing Silman/jb & GCA/gm 9.6.17	ing conditions of the pering dimensions are obtaine	neter concrete beams around the light od.	court which th	he contractor nee	ds to be verify	in the field. The	se dimensions may	vary around the l	ight court.	Architect can		
	3 Ligh	nt Court Existing Beam Size		Cote, Derek (Shepard Steel Co., Inc.)		08/28/2017	Brian White	09/05/2017	08/31/17					



Job #: 015896.005 901803 - Gant Building Renovations - STEM - Phase 1 196 Auditorium Road Storrs, Connecticut 06269

Whiting-Turner: SHELTON

Deep Coto Send Find Jan 29, 2017 at 083 3m EDT Shepard Steel requests verification of beam size on S-115 Shepard Steel requests verification of beam size is missing from West side of drawing as noted on attached drawing. Please provide size of existing beam. VCONK Gart - SCRI RF II Loc 1  10 If VI.1 and RF2 Connection Details 10 Loc 20 Shepard Steel Coto, Deak (Shapard Steel Coto	# Subjec	ct	Status Responsible Contractor	Received From	Assignee Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact		Cost Impact
UCONN Gart - SCRIPR #11.pdf  As Instruction between the University records. The contractor should controm all as-built sizes in the field.  Bread RT- Connection Details				size on S-115									
Missing beam size is assumed to be VISING 10 Seed on the existing building drawings obtained from the University records. The contractor should confirm all as-built sizes in the field.    Vising 10			ight Court, beam s	ize is missing from West	side of drawing as note	d on attach	ned drawing	. Please prov	vide size of e	xisting b	oeam.		
Per Color Sent Fin Aug 25, 2017 at 08-52 Sent EDT Shepard Steel requests detail drawings for beam connections noted on attached Drawing 5-115.  God fine CX. connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new beam and RF12 LOGNI Joint GW. Connections between new set cannel were set on new set set of new and existing roof deck, but there is not a physical connection between RF12 and the cantilever beams. This is to ensure the structure does not cross over existing expansion joints. Architect to confirm this is acceptable and a closure detail is not needed at this intersection.  Per Set of the	A:	Missing beam size is assumed to be			m the University records. The con	tractor should c	onfirm all as-buil	t sizes in the field					
Shepard Steel requests detail drawings for beam connections noted on attached Drawing 5-115.  60 a Confide Cit. Connection between new beam and RT-1  50 confide the Cit. Connection between new beam and RT-1  50 confide the Cit. Connection between new beam and RT-1  50 confide the Cit. Connection between RT-1 is dependent upon the existing dimersions of the top chord of RT-1, of which the size, elevation, and slope to be verified in the field by the contractor. They are to be standard shear end connections.  All The new steel cantilever pass RT-1 and GBD-1 or RT-1 is dependent upon the existing dimersions of the top chord of RT-1, of which the size, elevation, and slope to be verified in the field by the contractor. They are to be standard shear end connections.  All The new steel cantilever pass RT-1 and GBD-1 or RT-1 and RT-2 connection between RT-2 and the cantilever beams. This is to ensure the structure does not cross over existing expansion joints. Architect to confirm this is acceptable and a closure detail is not needed at this intersection.  7	10 RT-1 ar	nd RT-2 Connection Details		Cote, Derek (Shepard Steel Co., In		Brian White	09/06/2017	09/06/17					_
a. Unto line U.C. connection between New Deam and NE-1 UCONN Gart. \$50 EN   \$42 pdf   \$42 pdf   \$42 pdf   \$43 pdf   \$42 pdf   \$43 pdf				oted on attached Drawing S-115.									
The connection of new steel WIJOLIS to RT-1 is dependent upon the existing dimensions of the top chord of RT-1, of which the size, elevation, and slope to be verified in the field by the contractor. They are to be standard shear end connections.  A: The new steel cantilevers past RT-1 and does not cross over existing expansion joints. Architect to confirm this is acceptable and a closure detail is not needed at this intersection.  Silman/jb & GCA/gm 9.6.17    Post	Q:	b. Grid line C/K: connections between											
Derek Cote Sent Fri Aug 25, 2017 at 09:01 am EDT Shepard Steel requests two details aroungs of the locations noted in the attached drawing S-112, Second Floor - South, between grid lines F and F.5.  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:34 pm UTC A. All new steel to new steel connection details not shown on construction drawings are standard shear connections to be developed by steel contractor and follow the information provided on the typical details. See sheet S-501,  Brian White Send Steel requests two days on the posts. If we use these dimensions and 1'-6" dimensional Discrepancies Between S-110  Brian White Sent Wed Aug 30, 2017 at 04:19 pm EDT Shepard Steel requests verification of dimensional discrepancies between drawings S-110 and S-111. Refer to notes in attached drawing.  a. In S-111 along grid N.5 has dimensions, if we use these dimensions and 1'-6" dimension from grid-16 shown in S-110 to first post then, it will have 4-11 1/8" it is not 4-11 ¼". Otherwise if we keep 4-11 ¼ then 1'-6" from grid line will not match. It will become 1-5 7/8". Is this acceptable to use 1-5 7/8". Confirm.  b. Refer to RRI #5 c. Refer to RRI #5 d. In S-110 along grid M-15 has dimensions to the posts. If we use the dimensions to the 4 posts from bottom and 1'-6, 4-11 ¼ for top 2 posts, then the gap between 2nd and 3rd post will be 7-0 ½" but in S-111 shown it as 7-0 1/8". This will not match. It shill become 1-5 7/8". Spdf	A:	The connection of new steel W10x1 connections. The new steel cantilevers past RT-1 ensure the structure does not cross Silman/jb & GCA/gm 9.6.17	5 to RT-1 is dependent upor and does not connect to RT over existing expansion joi	n the existing dimensions of the top -2. The steel needs to extend to sunts. Architect to confirm this is acce	ipport extents of new and existing	roof deck, but t	here is not a phys	•	-				_
Shepard Steel requests two detail drawings of the locations noted in the attached drawing 5-112, Second Floor - South, between grid lines F and F.5.  Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 03:34 pm UTC A. All new steel to new steel connection details not shown on construction drawings are standard shear connections to be developed by steel contractor and follow the information provided on the typical details. See sheet 5-501,  "Typical Suggested Shear Connections at Gravity Loads Only".  B. All new steel to existing concrete beam connection details are to follow the information provided on the typical details, sheet 5-502 "Typical Detail New Steel Beam Anchored to Existing Concrete/CMU Wall or Beam".  Silmanijb & GCA/g, 9, 6.17 16728 2017-09-3.1 Silman Response to RFI #009 Beam Section Details.pdf  11 Dimensional Discrepancies Between S-110 Closed Shepard Steel Co Cote, Derek (Shepard Steel Co Inc.) Bresler, Jenna (R 08/30/2017 Brian White 09/06/2017 09/06/17  Brian White Sent Wed Aug 30, 2017 at 04:19 pm EDT Shepard Steel requests verification of dimensional discrepancies between drawings S-110 and S-111. Refer to notes in attached drawing.  a. In S-111 along grid N.5 has dimensions, if we use these dimensions and 1'-6" dimension from grid-16 shown in S-110 to first post then, it will have 4-11 1/8" it is not 4-11 ½". Otherwise if we keep 4-11 ½ then 1'-6" from grid line will not match. It will become 1-5 7/8". Is this acceptable to use 1-5 7/8". Confirm.  b. Refer to RFI #5 c. Refer to RFI #5 d. In S-110 along grid-M has dimensions to the posts. If we use the dimensions to the 4 posts from bottom and 1'-6, 4-11 ½ for top 2 posts, then the gap between 2nd and 3rd post will be 7-0 ½" but in S-111 shown it as 7-0 1/8". This will not work. Is this acceptable to use 7-0 ½". Advise.  UCONN Gant - SSCI RFI #5, pdf	9 Beam S	Section Details - S-112		Cote, Derek (Shepard Steel Co., I		Brian White	09/06/2017	09/06/17					_
A. All new steel to new steel connection details not shown on construction drawings are standard shear connections to be developed by steel contractor and follow the information provided on the typical details. See sheet S-501, "Typical Suggested Shear Connections at Gravity Loads Only".  B. All new steel to existing concrete beam connection details are to follow the information provided on the typical details, sheet S-502 "Typical Detail New Steel Beam Anchored to Existing Concrete/CMU Wall or Beam". Silman/jb & GCA/g, 9.6.17  10 Dimensional Discrepancies Between S-110 Closed Shepard Steel Co., Cote, Derek (Shepard Steel Co.,. Inc.) Bresler, Jenna (R 08/30/2017 Brian White 09/06/2017 09/06/17  Brian White Sent Wed Aug 30, 2017 at 04:19 pm EDT Shepard Steel requests verification of dimensional discrepancies between drawings S-110 and S-111. Refer to notes in attached drawing.  a. In S-111 along grid N.5 has dimensions, if we use these dimensions and 1'-6" dimension from grid-16 shown in S-110 to first post then, it will have 4-11 1/8" it is not 4-11 1/4". Otherwise if we keep 4-11 1/4 then 1'-6" from grid line will not match. It will become 1-5 7/8". Is this acceptable to use 1-5 7/8". Confirm. b. Refer to RFI #5  c. Refer to RFI #5  d. In S-110 along grid-M has dimensions to the posts. If we use the dimensions to the 4 posts from bottom and 1'-6 , 4-11 1/4 for top 2 posts, then the gap between 2nd and 3rd post will be 7-0 1/2" but in S-111 shown it as 7-0 1/8". This will not work. Is this acceptable to use 7-0 1/4". Advise.  UCONN Gant - SSCI RFI #5.pdf	Q:	Shepard Steel requests two detail de		red in the attached drawing S-112,	Second Floor - South, between gri	d lines F and F.5							
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Shepard Steel requests verification of dimensional discrepancies between drawings S-110 and S-111. Refer to notes in attached drawing.  a. In S-111 along grid N.5 has dimensions, if we use these dimensions and 1'-6" dimension from grid-16 shown in S-110 to first post then, it will have 4-11 1/8" it is not 4-11 1/4". Otherwise if we keep 4-11 1/4 then 1'-6" from grid line will not match. It will become 1-5 7/8". Is this acceptable to use 1-5 7/8". Confirm.  b. Refer to RFI #5  c. Refer to RFI #5  d. In S-110 along grid-M has dimensions to the posts. If we use the dimensions to the 4 posts from bottom and 1'-6, 4-11 1/4 for top 2 posts, then the gap between 2nd and 3rd post will be 7-0 1/4" but in S-111 shown it as 7-0 1/8". This will not work. Is this acceptable to use 7-0 1/4". Advise.  UCONN Gant - SSCI RFI #5.pdf				Cote, Derek (Shepard Steel Co., In		Brian White	09/06/2017	09/06/17					_
will not matchlt will become 1-5 7/8". Is this acceptable to use 1-5 7/8". Confirm. b. Refer to RFI #5 c. Refer to RFI #5 d. In S-110 along grid-M has dimensions to the posts. If we use the dimensions to the 4 posts from bottom and 1'-6, 4-11 ¼ for top 2 posts, then the gap between 2nd and 3rd post will be 7-0 ½" but in S-111 shown it as 7-0 1/8". This will not work. Is this acceptable to use 7-0 ½". Advise. UCONN Gant - SSCI RFI #5.pdf				es between drawings S-110 and S-1	111. Refer to notes in attached dra	wing.							
A: Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Sep 6, 2017 at 04:46 pm UTC	Q:	will not match. It will become 1-5 7/5 b. Refer to RFI #5 c. Refer to RFI #5 d. In S-110 along grid-M has dimens This will not work. Is this acceptable	8". Is this acceptable to use ions to the posts. If we use	1-5 7/8". Confirm.									
	A:	Geoffrey Meier (Goody, Clancy and	Associates) Responded We	d Sep 6, 2017 at 04:46 pm UTC									-



Whiting-Turner: SHELTON

Job #: 015896.005 901803 - Gant Building Renovations - STEM - Phase 1 196 Auditorium Road Storrs, Connecticut 06269

# Subje	ect	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact		Cost Impact
	a. See attached pdf for dimensional b. Refer to RFI #005 Response c. Refer to RFI #005 Response d. Refer to RFI #005 Response Silman/jb & GCA/gm 9.6.17 16728 2017-08-31 Silman Response			iscrepancies #2.pdf										
12 Conne	ection Plate Conflict with Concrete	Closed	Shepard Steel Co	Cote, Derek (Shepard Steel Co., Inc.)	Meier, Geoffrey (	09/11/2017	Brian White	09/18/2017	09/19/17					_
Q:	Derek Cote Sent Mon Sep 11, 2017 a Refer to the sketch and notes by She SSCI RFI #020 - Connections fouling	pard Stee	l on attached dra	awing S-111. If typical connection per S	-502, connec	ction plate conflict	s with concrete	wall. Shepard St	eel requests instru	uction on how to p	roceed.			
A:	Geoffrey Meier (Goody, Clancy and A SHIFT PIPE LOCATIONS 6" TO THE EA AS SHOWN ON THE ATTACHED PDF ( Silman/jb & GCA/gm 9/15/17 16728 2017-09-15 Silman Response	ST. ADJUS Results in	T MEZZANINE ST a shorter mezza	EEL DIMENSIONS nine width by 6".)										
13 West V	Wing Corridor Access Doors to vest Connector Construction Space	Closed	Whiting- Turner: S	Seidensticker, Kevin (Whiting-Turner: SHELTON)	Meier, Geoffrey (	09/18/2017	Kevin Seidensticker	09/25/2017	12/19/17			TBD		Yes (Unknow
Q:	plans WT-SK.4 and .5. The current lo  1.) If the doors do need to remain ac reviewed and upgraded. UConn has to remain locked at all times and onl  2.) Please also review if the corridor	e review of gistics plantive as an requested y release of doors from	of code compliant of code compliant of show egress to emergency egre I for the design to on activation of a on the west wing to	te of existing West Wing Corridor Doors through these doors in the case of an er ss route from the west wing through the team to review and advise on upgrading fire alarm emergency event for egress to the southwest connector need to rem	nergency on e active cons the hardwar s. Please revi	ly from prior requestruction space to re set to an electro ew and advise on or emergency egre	ests. Two items the stair tower onic hardware se hardware and p ess against the c	are being reques at the southwest et tied into the se programming req code and Departr	of Gant, UConn had becurity and fire ala uirements for upg	d: as requested for the requested for the register of the red for adding door hardwety requirements.	ne door hard unction such vare and fun	Iware to be that the doo ctionality.	ors are	
	doors will also help in the construction	n efforts o	of the stair tower	be recommended to just close off and as it will need to be shut down for dura to the construction activities. Please re	ations in orde	er to perform the a								
A:	delayed and alarmed egress function the building fire alarm system. This s The University's locksmith, Robert the hardware revisions needed for th	nd Whiting nality. Dorn hall be a t Druge, ha nese doors	Turner, during the ma EMDE Surfactemporary conditions the signed off on the signed.	Nov 2, 2017 at 05:08 pm UTC  ne spring and fall semesters emergency e mounted magnetic lock devices (see cion and remain in place until these dec is approach but has asked that approv n clear egress from these doors throug	attached) shors are replace al from the F	nall be used to proted in the subsequire/ Building inspe	vide this functio uent phase of co ector. Once Capt	nality and shall pnstruction.	provide both a loca	al audible alarm as	well as be t	ied into		
	In response to request #2) The University is in active internal the summer period of 2018.	discussion	ns regarding their	ability to adjust the occupancy counts	in the South	end of the West v	ving to allow the	e second means (	of egress requirem	nent through these	doors to be	e eliminated	during	
	gm/GCA 10.26.17 EMDE_TDS_6-12-lo.pdf													
15 Interio	or Partition Door Glazing	Closed	Massey's Plate Gl	Donahue, Zach (Massey's Plate Glass & Aluminum, Inc.)	Meier, Geoffrey (	10/11/2017	Brian White	10/25/2017	11/02/17		Gant South Wing	TBD		TBD



Job #: 015896.005 901803 - Gant Building Renovations - STEM - Phase 1 196 Auditorium Road

Storrs, Connecticut 06269

# Subj	ect Statu	s Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact		Cost Impact
Q:	Brian White Sent Mon Sep 18, 2017 at 11:42 Currently on the shop drawings the doors in t will shatter. Currently, Infinium has qualified cut through the glass. If the design team war	the demountable p these doors as fra	meless 1/2" clear tempered doors. Infir	nium can pro	vide the laminate	ed glass as spec	cified in an alumii						
	Geoffrey Meier (Goody, Clancy and Associate	es) Responded Thu	Nov 2, 2017 at 04:41 pm UTC										
A:	Provide the 1/2" clear tempered door (framel GC to provide/install film (office sides) that w		interlayer.										
	jw/MG & gm/GCA 10.29.17												
14 Interi	or Partition Glazing Light Transmittance Closed	d Massey's Plate Gl	Donahue, Zach (Massey's Plate Glass & Aluminum, Inc.)	Meier, Geoffrey (	09/20/2017	Brian White	09/27/2017	11/02/17		Gant South Wing	TBD		Yes (Unknowr
	Brian White Sent Mon Sep 18, 2017 at 11:56 In spec section 088000 Interior Glass and Gla glass type?		r the use of IG3 Clear, Tempered, low-ird	on, laminate	d glass with full-h	eight transluce	nt interlayer(safl	ex artic snow). Wh	at is the expected	light transm	nittance of th	iis	
Q:	One Arctic Snow layer- 0009 is 61.3% Two Arctic Snow Layer- 0099 is 43.4% Three Arctic Snow Layer- 0999 is 35.3% Four Arctic Snow Layer- 9999 is 28.9%												
A:	Geoffrey Meier (Goody, Clancy and Associate Proviude one layer of the Arctic Snow interlay Submit sample for architect to review and ap gm/GCA and jw/MG 10.26	yer (~61.3 light tra											
27 HVAC Size	/BAS - Chilled Water Pressure / Valve Closed	d Schneider Electri	Harrington, Michael (Schneider Electric Buildings Americas, Inc.)	Meier, Geoffrey (	01/19/2018	Kevin Seidensticke	r 01/26/2018	02/01/18			No		TBD

Michael Harrington Sent Wed Oct 18, 2017 at 08:50 am EDT

Please advise if there is 10 PSI pressure available from the UCONN Central Plant at the 1/3, 1/3, 1/3 PIC Control Valves shown for Heat Exchangers PHX-SG-2A & PHX-SG-2B shown on drawing M-511-S? In order to provide a PICV at the design flow rate of 800 GPM (ea), a larger valve size than the indicated pipe size of 6" (8" or larger valve will be required in the 6" pipe) will be required if only 5 PSI is available at the valves. Using a control valve that is larger than the pipe size is not recommended. If 10 PSI is available we can go to a 6" PICV. Please advise.

UConn has a site standard of Belimo Valves which does not have a valve that will meet the specifications so we suggest sourcing valves from other manufacturers such as Danfoss & Xylem (Bell and Gossett). Please advise if acceptable.

Building Cooling Chilled Water one-third Valves. IPG CW RFI 10.18.2017.pdf

Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Jan 31, 2018 at 11:58 pm UTC

10 DP PSI should be available. It has been previously shared with Schneider that on design day, it is projected that supply pressure is about 80-100 psig with a DP of 35-45 PSI between supply and return. Pressure drop in building service entrance piping from mains to PHX is expected to be well below 25 PSI. Schneider to consider these pressures in their valve sizing and valve control authority through full operating range

Flow requirement for PHX-SG-2A and 2B to be reduced from 35% to 29% of total PHX rating to allow use of Owner preferred Belimo PICV in 6" size based on flow limit information previously provided by Schneider. Provide capped shutoffs in control valve station for a future fourth valve to be installed in parallel that will provide increased flow capacity and flow redundancy % needed for future Data Center Renovations and upgrades.

These flow requirement clarifications and additional capped shutoffs in the control valve station for PHX - SG- 2A & 2B are being included in Bulletin 14.2.



Job #: 015896.005 901803 - Gant Building Renovations - STEM - Phase 1 196 Auditorium Road Storrs, Connecticut 06269

# Subject	Status Responsible Received From	Assignee Date Initiated RFI Due Date	Closed Date	<b>Ball In Court</b>	Location Schedule Cost Cost
	Contractor	Manager			Impact Code Impact

BVH/kb & GCA/gm 1.30.18

Additional explanation provided:

For the PHX-SG-2A/2B control valve station, it will now consist of 4 valves, 3 installed in PH1, 1 in future phase, each sized at 29% of 2400 GPM or approximately 696 GPM each. Once the fourth valve is installed, control station total valve flow capacity will be approximately 2784 GPM, above PHX rating of 2400 GPM. This sizing approach maximizes the 6" valve capacity, provides the Owner with their desired manufacturer (Belimo) and style pressure independent control valve they are familiar with on campus and provides a higher degree of redundancy capacity in case one valve fails. In the original 1/3 arrangement, if one valve failed, flow would be reduced to approximately 1680 GPM (70% capacity of PHX). In this new 4 valve arrangement, flow would be reduced to approximately 2088 GPM (87% capacity of PHX) which we believe is of value now that data center remains in the building.

BVH has called for provisions to be made (taps and capped shutoffs) for the 4<sup>th</sup> valve to be included in PH1 as part of B#14.2. BVH felt it reasonable to view that this is an enhancement related to upgrade of the Data Center and also at same time offers a solution that gives UConn the valve they would like.

BVH chose to delay provision of the fourth valve since total flow of PHX will not be required until end of PH3 and the 3 valves provided in PH1 more than sufficient for PH1 demands and to minimize PH1 change order impact. The fourth valve would be part of chilled water extension to the Data Center CRAC units project.

It can be considered that this fourth valve be installed in PH1, understanding it a larger add cost change, but may have merit doing so so system fully Cx and ready to go at conclusion of PH1.

M-511-S does not specifically reference 1/3 valves, and BVH included revised drawing in B#14.2. BVH also revised PHX piping diagram on M-712-S indicating 4 valve approach.

BVH overlooked M-601-S control diagram that references 1/3 valve and should revise similarly like piping diagram on M-712-S reflecting revision.

Bulletin 14.2 has been issued as a draft for review. The Design Team will confirm this approach in the 2/1 scope review and will aim to confirm the 4<sup>th</sup> valve should remain as future and we can update accordingly and also add revised M-601-5 to B#14.2.

BVH/kb & GCA/gm 1.31.18

BVH RFI (BVH Integrated Services ) Responded Wed Jan 31, 2018 at 02:30 pm UTC

#### **BVH Response:**

10 DP PSI should be available. It has been previously shared with Schneider that on design day, it is projected that supply pressure is about 80-100 psig with a DP of 35-45 PSI between supply and return. Pressure drop in building service entrance piping from mains to PHX is expected to be well below 25 PSI. Schneider to consider these pressures in their valve sizing and valve control authority through full operating range

A: Flow requirement for PHX-SG-2A and 2B to be reduced from 35% to 29% of total PHX rating to allow use of Owner preferred Belimo PICV in 6" size based on flow limit information previously provided by Schneider. Provide capped shutoffs in control valve station for a future fourth valve to be installed in parallel that will provide increased flow capacity and flow redundancy % needed for future Data Center Renovations and upgrades.

These flow requirement clarifications and additional capped shutoffs in the control valve station for PHX – SG- 2A & 2B are being included in Bulletin 14.2 in process of being issued.

KLB @ BVH 1/31/18

Kevin Seidensticker (Whiting-Turner: SHELTON) Responded Thu Jan 25, 2018 at 04:35 pm UTC

Also, please review this as well in conjunction with the above RFI: According to Drawing M-511-5 & M-601-5, The 1/3 Valves have a total of 2400 GPM or 800 GPM each. The corresponding notes requires them to be Pressure Independent Control Valves. Belimo currently does not have a PICV that can be sized for 800 GPM. An alternate valve option could be a Pressure Dependent Valve. Is this a valid option?

Meier. Electrical - 4160V and 15kV Duct Bank Nuzzello, Robert (Ferguson Electric Ferguson Seidensticker 12/18/2017 Ground TBD TBD Closed Geoffrey 12/11/2017 12/20/17 Coordination Electric... Company, Inc.) Floor (...

Q: Robert Nuzzello Sent Tue Oct 31, 2017 at 12:41 pm EDT

Ball In Court Location Schedule Cost Cost

Impact

Code Impact



# Subject

Job #: 015896.005 901803 - Gant Building Renovations - STEM - Phase 1 196 Auditorium Road Storrs, Connecticut 06269

Assignee Date Initiated RFI

**Due Date** 

Manager

Closed Date

Enclosed partial Drawing E-100U-S shows a two (2) 5" conduits duct bank for 4160V and a six (6) 5" conduits duct bank for 15kV. However, the NW Quad Infrastructure project Drawing C3.01 shows a four (4) 5" conduits duct bank for 4160V and a four (4) 5" conduits duct bank for 15kV. Please advise on which is correct and what is to be furnished and installed for ductbanks in the Gant Phase 1 project?

Sub Reference - FE RFI #01 - 4160V and 15kV Duct Bank Coordination FE RFI #001 - 4160V and 15kV Duct Bank Coordination 103117.pdf

Geoffrey Meier (Goody, Clancy and Associates) Responded Tue Dec 19, 2017 at 04:02 pm UTC

Status Responsible Received From

Contractor

The NW Quad Infrastructure project drawings are correct. Each duct bank entering the building will consist of (4) 5" conduits. Drawings will be revised in a future bulletin to move (2) 5" conduits from the 15ky duct bank to the 4160V duct bank.

lem/BVH & gm/GCA 12/15/17

BVH RFI (BVH Integrated Services ) Responded Fri Dec 15, 2017 at 07:43 pm UTC

#### **BVH Response:**

The NW Quad Infrastructure project drawings are correct. Each duct bank entering the building will consist of (4) 5" conduits. Drawings will be revised in a future bulletin to move (2) 5" conduits from the 15ky duct bank to the 4160V duct bank.

LEM @ BVH 12/15/17

Meier, Ferguson Nuzzello, Robert (Ferguson Electric Seidensticker 12/18/2017 Ground TBD 21 Electrical - ES-ATS-SG Emergency Feeder Geoffrey 12/11/2017 12/20/17 TBD Electric.. Company, Inc.) Floor

Robert Nuzzello Sent Thu Nov 2, 2017 at 01:09 pm EDT

Enclosed partial Drawing E-515-S shows ES-ATS-SG as being rated at 800Amp. The normal power line side, fed via SHDP-SG, and the load side feeders are both 800Amp. However, the emergency line side, fed from USSE-MSB, is 400Amp. Pleas confirm if the 400Amp emergency feeder is correct or if it needs to be upsized to the 800Amp? If it needs to be upsized, please confirm/advise on what feeder size to provide.

Sub Reference: FE RFI #03 ES-ATS-SG Emergency Feeder FE RFI #003-ES-ATS-SG Emergency Feeder 110217.pdf

Geoffrey Meier (Goody, Clancy and Associates) Responded Tue Dec 19, 2017 at 04:01 pm UTC

400A feeder is correct.

lem/BVH & gm/GCA 12/15/17

BVH RFI (BVH Integrated Services ) Responded Fri Dec 15, 2017 at 07:46 pm UTC

**BVH Response:** 

A:

400A feeder is correct.

LEM @ BVH 12/15/17

Meier, Nuzzello, Robert (Ferguson Electric Seidensticker 12/18/2017 Ground Ferguson Geoffrey 12/11/2017 TBD 20 Electrical - SHDP-DC Feeder Size Closed 12/20/17 TBD Electric.. Company, Inc.) Floor (...

Robert Nuzzello Sent Thu Nov 2, 2017 at 01:44 pm EDT

Enclosed partial Drawing E-521-S shows 1600Amp panel board SHDP-DC being fed via 1200Amp feeder from 84USS-MSB. Please confirm that the 1200Amp feeder is correct or if feeder needs to be upsized? If it needs to be upsized, please advise on what to furnish and install for feeder size. O:

Sub RFI Reference: FE RFI #005-SHDP-DC Feeder. FE RFI #005-SHDP-DC Feeder 110217.pdf

Geoffrey Meier (Goody, Clancy and Associates) Responded Tue Dec 19, 2017 at 03:59 pm UTC

1200A feeder is the correct size.



Job #: 015896.005 901803 - Gant Building Renovations - STEM - Phase 1 196 Auditorium Road Storrs, Connecticut 06269

Whiting-Turner: SHELTON

#	Subjec	ct	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
		LEM/ BVH & gm/GCA 12/15/17												
		BVH RFI (BVH Integrated Services ) Re <b>BVH Response:</b>	esponded	Fri Dec 15, 2017	at 07:41 pm UTC									
	A:	1200A feeder is the correct size.												
		LEM @ BVH 12/15/17												
23	Electric	cal - EC-HLP-SG Panel Schedule	Closed	Ferguson Electric	Nuzzello, Robert (Ferguson Electric Company, Inc.)	Meier, Geoffrey (	12/11/2017	Kevin Seidensticker	12/18/2017	12/20/17		Ground Floor	TBD	TBD
	Q:	Robert Nuzzello Sent Thu Nov 2, 2017 Enclosed partial Drawing E-515-S sho Southeast Corner of Electrical Room 9	ws panel	board EC-HLP-SO	G. However, there is no panel schedule : nel schedule for EC-HLP-SG.	shown for E	C-HLP-SG on the E	-800 series drav	wings. Panel EC-H	LP-SG is a panel to	o serve site lightin	ig and is fou	und in the	
		Sub Reference: FE RFI #09 EC-HLP-S0 FE RFI #009-EC-HLP-SG Schedule 110		e										
		Geoffrey Meier (Goody, Clancy and A		) Responded Tue	Dec 19, 2017 at 04:03 pm UTC									
	A:	Index panelboard schedule will be ad	ded to dra	awings in a fortho	coming bulletin.									
		gg/BVH & gm/GCA 12/15/17												
		BVH RFI (BVH Integrated Services ) Re BVH Response:	esponded	Fri Dec 15, 2017	at 04:18 pm UTC									
	A:	Index panelboard schedule will be ad	ded to dra	awings in a fortho	coming bulletin.									
		GG @ BVH 12/15/17												
24		cal - Circuitry of Lights Outside Toilet SRR0A/B	Closed	Ferguson Electric	Nuzzello, Robert (Ferguson Electric Company, Inc.)	Meier, Geoffrey (	12/11/2017	Kevin Seidensticker	12/18/2017	12/20/17		Ground Floor	TBD	TBD
			ows two	(2) light fixtures, panel schedule	Type-AD01, outside of Ground Floor Toi for HLP-SG on E-801-S, circuit #1 is a sp									
		Sub Reference: FE RFI #16 Men's & W FE RFI #016 Men's & Women's Toilet												
	A:	Geoffrey Meier (Goody, Clancy and A The luminaires shall be connected to												
		gg/BVH & gm/GCA 12/15/17												
		BVH RFI (BVH Integrated Services ) Re BVH Response:	esponded	Fri Dec 15, 2017	at 04:13 pm UTC									
	A:	The luminaires shall be connected to	the branc	ch circuit as show	n on the drawings.									
		GG @ BVH 12/15/17												
														-



19 Glazed Aluminum Curtain Wall Wind Speed Closed

A: Geoffrey Meier (Goody, Clancy and Associates) Responded Thu Dec 14, 2017 at 06:03 pm UTC

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Gant

South Wing TBD

12/14/17

Brian White 12/07/2017

TBD

<b>Q:</b> Th	Type K.04	Closed	Manganaro									Impact	Couc	Impact
<b>Q:</b> Th			Northea	Perry, Kyle (Manganaro Northeast, LLC)	Meier, Geoffrey (	11/06/2017	Brian White	11/13/2017	12/07/17		Gant South Wing	No		TBD
	yle Perry Sent Mon Nov 6, 2017 at 0 he Drawing A-110, in the Southeast K.04"? Fl 001 - MNE RFI K04 Partition Type.	portion o		ls for partition type "K.04" on several or	ccasions. Ho	wever, there is no	partition type	detailed in drawir	ng A-900 for "K.04'	'. Can you confirm	the details	of partition	type	
Ge	eoffrey Meier (Goody, Clancy and A	ssociates	) Responded Thu	Dec 7, 2017 at 12:48 pm UTC										
A: Us	se wall type K0 at all locations were	it says K	0.4											
JW	N 12-6-17 CCA/gm @ MG/Iw 12.6.17													
16 Partition Ty	Type "O" Drywall Side	Closed	Manganaro Northea	Perry, Kyle (Manganaro Northeast, LLC)	Meier, Geoffrey (	11/06/2017	Brian White	11/13/2017	12/07/17		Gant South Wing	No		TBD
Q: On coi		n Type "C tags are a	" to have the dry	rwall on the Corridor Side. However, in 1 of the rooms, not the corridor side. Plea										
Ge	eoffrey Meier (Goody, Clancy and A	ssociates	) Responded Thu	Dec 7, 2017 at 12:46 pm UTC										
A-!	-900 is accurate. Drywall is to be lo	ated on t	he Corridor Side.											
A: At	t Wall Type B - all double layer of gy	p board to	be located on C	orridor Sides.										
GC	CA/gm and MG/jw 12.6.17													
18 Wall Paint	t at SW Lobby	Closed	Manganaro Northea	Perry, Kyle (Manganaro Northeast, LLC)	Meier, Geoffrey (	11/06/2017	Brian White	11/13/2017	12/07/17		Gant South Wing	No		TBD
<b>Q:</b> Dra	yle Perry Sent Mon Nov 6, 2017 at 0 vrawing A-110 in the SW Lobby (SL0 e the case as it calls for P1 in some FI 003 - Wall Paint at Lobby.pdf	A) calls fo	r Scuff Resistant	Paint "W5" and Wood Slats "W2". Does h is correct.	this presum	e that anywhere t	here is not woo	od slats there is so	cuff resistant paint	? In the elevation ?	2/A701,this	does not se	em to	
Ge	eoffrey Meier (Goody, Clancy and A	ssociates	) Responded Thu	Dec 7, 2017 at 12:50 pm UTC										
A: Re	efer to the Interior Elevations for all	(tagged)	Paint Locations.	There are several types used within the	Lobby Area	-								
Α.	IG/jw & GCA/gm 12.6.17													

Geoffrey 11/30/2017

Brian White Sent Thu Nov 30, 2017 at 08:36 am EST 084413.2.3.B.1 calls out for design to withstand a wind speed of 103MPH. When looking at drawing S-001 the wind speed is called out be 100 MPH. Please advise on which wind speed should be used in the design of the curtain wall.

Meier,

Massey's Plate Glass Gl... Donahue, Zach (Massey's Plate Glass & Aluminum, Inc.)



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#	Subjec	t	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court			st Cost de Impact
		The wind loading requirement shall be GCA/gm 12.13.17	100mpl	n per the 2005 CT	FBuilding Code in Mansfield CT.									
26	Shaft W	/all Detail	Closed	Ferguson Mechanic	Blanchflower, Doug (Ferguson Mechanical Company, Inc.)	Meier, Geoffrey (	01/04/2018	Kevin Seidensticker	01/11/2018	01/08/18				
	Q:		ow shaft shaft or e of sha	s throughout the stops and starts ft wall will start.	floor for MEP's made up of wall types E at each floor level. Can you please prov									
		Geoffrey Meier (Goody, Clancy and As	sociates	) Responded Fri Ja	an 5, 2018 at 09:22 pm UTC									
	A:	As shown on A-900 for wall types D an drawings and coordinate penetration of			09 29 00 (Part 3.6) install shaft liner be I and structural drawings.	tween concr	rete slabs at each	floor level. Shaf	ft liner is not requ	ired to run continu	ious through shaft	. Locate shat	ft wall per plan	
		MG/jw 1.5.18												
	Beam A or Bear	Anchor to Existing Concrete/CMU Wall n	Closed	Shepard Steel Co	Cote, Derek (Shepard Steel Co., Inc.)	Meier, Geoffrey (	12/28/2017	Brian White	01/05/2018	01/11/18			No	No
		Derek Cote Sent Thu Dec 28, 2017 at 3 Shepard Steel reviewed the "Typical D existing concrete beams.			chored to Existing Concrete/CMU Wall o	r Beam" on S	5-502. Shepard be	lieves that the	detail will not wor	k in all application	ns due to existing v	vertical and I	norizontal rebar	in
	Q:				oard Steel proposes an alternative to th hepard Steel question and proposed so		roviding a connec	tion plate that I	has eight (8) hole	s with horizontal s	hort slats to allow	for adequate	e drilling and	
		Please confirm the proposed alternative UCONN Gant - SSCI Connection RFI.PD		as shown in the a	attachment is acceptable.									
		Geoffrey Meier (Goody, Clancy and As	sociates	) Responded Thu	Jan 11, 2018 at 02:23 pm UTC									
	A:	The alternative plate layout proposed GCA/Gm and Silman/ml 1.11.18	by Shep	ard Steel is accep	otable.									
	A:	Michael Laracy (Robert Silman Associa The alternaative plate layout proposed												
34	HVAC -	Clarify -Duct Insulation Schedule	Closed	Ferguson Mechanic	Blanchflower, Doug (Ferguson Mechanical Company, Inc.)	Meier, Geoffrey (	02/02/2018	Kevin Seidensticker	02/09/2018	02/07/18			N/A	TBD
	Q:	Thomas Ferguson Sent Mon Jan 8, 201 In specification section 23 07 13 Duct this third column should be revised to RFI 005-000 Clarify-Duct Insulation Sc	Insulatio indicate	n, in paragraphs only Unconditior	3.11 and 3.12 (Page 19 and 20 of spec led.	section), th	e third column of t	he Duct Insulat	tion Schedule indi	cates Heated, Ser	ni-Heated and Uno	conditioned.	Please advise i	
		Geoffrey Meier (Goody, Clancy and As The specification, as written, is correct BVH/klb & GCA/gm			f Feb 7, 2018 at 02:57 pm UTC applications noted and as defined per 2	23 07 13 1.3	Definitions.							
28	Plaza C	loset P105 Column Layout	Closed	Ferguson Electric	Nunez, Carolina (Ferguson Electric Company, Inc.)	Meier, Geoffrey (	01/19/2018	Kevin Seidensticker	01/26/2018	01/30/18			TBD	TBD



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196 Auditorium Road Storrs, Connecticut 06269

# Subje	ect	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Co Impact Co	st Cost de Impact
Q:		nd E-201E	. At column line	PL8 and PLE.8, there is an existing colu ture within the closet. Please advise if a								loset inaccessibl	e.
	FE RFI #018-000 Closet P105 Column	n vs Light.	pdf										
	Geoffrey Meier (Goody, Clancy and A Shift closet door, door frame & light f			e Jan 30, 2018 at 02:08 pm UTC 1/2" to accommodate column. Plan and	elevation to l	be updated in fut	ure bulletin.						
A:	MG 1-26-18Shift closet door, door fra	ıme & ligh	t fixture to the e	east by 1'-4 1/2" to accommodate colum	nn. Plan and e	elevation to be up	dated in future b	oulletin.					
	MG 1-26-18												
29 Electr	rical - Lobby Fixture Clarification	Closed	Ferguson Electric	Nunez, Carolina (Ferguson Electric Company, Inc.)	Meier, Geoffrey (	01/19/2018	Kevin Seidensticker	01/26/2018	01/30/18			TBD	TBD
Q:		t about co	olumn lines D.5	and 15.7, Architectural Drawings A-811 furnished and installed in these location		e for the fixture to	be a type "AW0	1" while Electric	al Drawings E-202	A-S, E-203A-S, & E-	204A-S not	e for the fixture	to
A:	Geoffrey Meier (Goody, Clancy and A Use light fixture "AW03." Architectura												
	MG 1-26-18												
	rical - West Wing Connector Fixture ication	Closed	Ferguson Electric	Nunez, Carolina (Ferguson Electric Company, Inc.)	Meier, Geoffrey (	01/19/2018	Kevin Seidensticker	01/26/2018	01/30/18			TBD	TBD
Q:		g Connec	tor Corridor at a	bout column line C.3 from column line 1 ". Please confirm on what fixture type i					res to be a type "A	AD01" while Electric	al Drawing	s E-202A-S,	
<b>A</b> :	Geoffrey Meier (Goody, Clancy and A Use light fixture "AD03E." Architectur												
	MG 1-26-18												
31 Electr	rical - Room S419A Fixture Height	Closed	Ferguson Electric	Nunez, Carolina (Ferguson Electric Company, Inc.)	Meier, Geoffrey (	01/22/2018	Kevin Seidensticker	01/29/2018	01/30/18		Fourth Floor	TBD	TBD
Q:	Robert Nuzzello Sent Wed Jan 17, 201 In Server room S419A, there are K1 a in reference to above finished floor? Ferguson Electric RFI #22.docx			ted within this room. This room does no	t have a ceilir	ng to be installed	within it. Can yo	u please provide	e as to what the bo	ttom of these light	fixtures sho	ould be installed	at
A:	Geoffrey Meier (Goody, Clancy and A Bottom of light fixtures to be installed			ghn 30, 2018 at 02:05 pm UTC ght fixture and light fixture supports to	be coordinate	ed with cable tray	s, ductwork and	piping.					
	MG 1-26-18												
	rical - Electrical, UITS, Janitor Closet I Fixture Height	Closed	Ferguson Electric	Nunez, Carolina (Ferguson Electric Company, Inc.)	Meier, Geoffrey (	01/22/2018	Kevin Seidensticker	01/29/2018	01/30/18			TBD	TBD



# Subject

Whiting-Turner: SHELTON

MG 1-30-18

33 Server Room S419A Ceiling Type

MG 1.26.18

37 HVAC - Steam Vents

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**Due Date** Closed Date Ball In Court Location Schedule Cost Cost Manager Impact Code Impact In Electrical Room S418, Electrical Room S418A, UITS Room please provide as to what the bottom of these light fixtures should be installed at in reference to above finished floor? Also, with the answer provided, would it be assumed to provide these fixtures at the noted heights typical "FOR LIGHTING IN MECHANICAL ROOMS AND BACK OF HOUSE AREAS PROVIDE LIGHTING GENERALLY AS SHOWN, LIGHTING SHALL BE SHIFTED AS REOUIRED AT MECHANICAL EQUIPMENT THAT REOUIRES SPACE FOR FILTERS, ETC. MOUNT LIGHTING AT 9'-0" MAXIMUM UNLESS DUCTWORK AND PIPING CAN'T BE AVOIDED WHERE A FIXTURE IS NEEDED. IN THIS INSTANCE, RAISE OR LOWER THE FIXTURE AS REQUIRED. (NOT LESS THAN 7'-6"). LIGHTING IN THE MECHANICAL ROOM SHALL BE SUSPENDED BY CHAIN. ALLOW (3') OF SLACK CHAIN AND FEEDER AT EACH FIXTURE TO PERMIT FUTURE ADJUSTMENT. DO NOT SUPPORT LIGHT FIXTURES FROM DUCT OR PIPING. PROVIDE UNISTRUT BELOW DUCTS WHERE FIXTURE LOCATIONS COINCIDE WITH DUCT RUNS. PROVIDE THREADED RODS FROM STRUCTURAL MEMBERS TO SUPPORT UNISTRUT." Fourth Kevin 01/29/2018 01/30/18 TBD TBD Seidensticker Floor On Drawing A-112, in Server Room S419A, it notes a ceiling type "C1" for an Acoustic Panel Ceiling, while on drawing A-812, the reflected ceiling plan depicts no ceiling to be provided in this room. Please confirm on what type of Kevin 02/14/2018 02/15/18 TBD TBD Seidensticker

Thomas Ferguson Sent Thu Ian 18, 2018 at 02:34 pm EST

Robert Nuzzello Sent Thu Ian 18, 2018 at 09:08 am EST

ceiling type is to be provided within this room.

No ceiling is to be provided in Server Room S419A.

Ferguson Electric RFI #26.docx

Robert Nuzzello Sent Wed Ian 17, 2018 at 11:38 am EST

through the floors for these room types/locations?

Per Electrical Lighting General Note #12 (E-200's):

Reference Contract Drawings M-200B-S, M-200D-S, and M-510-S. On Drawing M-510-S, it details relief valves discharged to the outdoors on the 10" LPS Main coming from PRV-SG-1A/1B, associated Flash Tank and Pressure Powered Condensate Pump. Drawing M-200B-S and M-200D-S do not show locations and sizes of these vents and routing. With the Plaza Roof located above this Mechanical Room, does discharging to outdoors allow for it to be discharged to any specific locations at the ground floor or does it need to go to roof of the South Wing Tower? Please advise on routing and discharge location.

Meier.

Meier,

Geoffrey

Geoffrey

Nunez, Carolina (Ferguson Electric

Blanchflower, Doug (Ferguson

Mechanical Company, Inc.)

Company, Inc.)

Assignee Date Initiated RFI

01/22/2018

02/07/2018

#### RFI 008-000 Steam Vents.pdf

Geoffrey Meier (Goody, Clancy and Associates) Responded Thu Feb 15, 2018 at 06:39 am UTC See attached response.

Geoffrey Meier (Goody, Clancy and Associates) Responded Tue Jan 30, 2018 at 02:03 pm UTC

Status Responsible Received From

Contractor

Ferguson

Electric..

Ferguson

Mechanic..

Geoffrey Meier (Goody, Clancy and Associates) Responded Tue Ian 30, 2018 at 03:44 pm UTC

Closed

Closed

GCA/gm 2.14.18

RFI-037 - HVAC - Steam Vents (BVH Response).pdf

Meier, HVAC - Lower Mechanical Room S025A Ferguson Blanchflower, Doug (Ferguson Kevin Ground Closed Geoffrey 02/02/2018 02/09/2018 02/08/18 TBD TBD Layout Mechanic... Mechanical Company, Inc.) Seidensticker Floor

Thomas Ferguson Sent Fri Jan 26, 2018 at 04:06 pm EST

Please reference drawings A-110 and M-300-S in regards to Lower Mechanical Room S025A. On Drawing A-110, at Lower Mechanical Room S025A, it indicates a new double door to be located in an existing wall to the west of column line K - 17 to provide access into the Lower Mechanical Room. On Drawing M-300-S, it indicates a new water heater SWH-1 to be installed on a new concrete equipment pad placed in front of the new double doors. Please advise on layout of equipment and access into the Lower Mechanical Room that are in conflict. RFI 015-000 M300-S Mechanical Room Wall.pdf

Geoffrey Meier (Goody, Clancy and Associates) Responded Wed Feb 7, 2018 at 10:27 pm UTC Demolish wall at Mechanical Room S025 (Lower Level). Delete Door S025.2 from the Door Schedule. Changes to be incorporated into future bulletin.

MG/jw, BVH/ks & GCA/gm 2-7-18



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Whiting-Turner: SHELTON

# Subjec	ct	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact		Cost Impact
38 HVAC-	General Duty Valves	Closed	Ferguson Mechanic	Blanchflower, Doug (Ferguson Mechanical Company, Inc.)	Meier, Geoffrey (	02/07/2018	Kevin Seidensticker	02/14/2018	02/15/18			No		No
Q:		5 23. Spe	c Section 23 05 2	3 3.8 High Pressure Steam and Conden ly double off set valves per paragraph 2					izes NPS 2-1/2 and	larger, section 6.	notes "Build	ling Main an	d	
Ψ.	Is it acceptable to use high performancest impact to go to High Performance RFI 019-000 General Duty Valves.pdf	e Butterfl		steam pressures and locations 2-1/2 ar advise.	nd larger? (As	s an example but	not limited to lo	w pressure stea	m indicates gate va	alves, but doesn't	ist the HP B	FV.) There is	s no	
A:	Geoffrey Meier (Goody, Clancy and A Provide triple offset per 23 05 23.3.8.			Feb 15, 2018 at 06:48 am UTC vg M-510-S (snipping below) for main b	uilding HPS a	and PCR shutoffs.								
	'High Performance butterfly valves m BVH/kb & GCA/gm 2.14.18	eeting 25	5 05 23.2.5 are ad	cceptable for all other LPS and HPS shut	toff valves 2	1/2" and larger'								
39 HVAC -	Piping Stress Analysis	Closed	Ferguson Mechanic	Blanchflower, Doug (Ferguson Mechanical Company, Inc.)	Meier, Geoffrey (	02/07/2018	Kevin Seidensticker	02/14/2018	02/15/18			TBD		TBD
Q:		d M-512-S formatior	6. Could the provi	ded attachment of HVAC Piping Stress d to design and submit on the required				ting temperatur	e and pressure limi	ts and that they a	re accurate	for the desig	gn	
A:	Geoffrey Meier (Goody, Clancy and A See BVH comments in attachment wl GCA/gm and BVH/kb 2.14.18 RFI 020-000 Piping Stress Analysis-Al RFI-039 - HVAC - Piping Stress Analys RFI 020-000 Piping Stress Analysis w	nich are c tachmen is (BVH R	onsistent with pr t.pdf esponse).pdf	evious commenst provided via 1/15/18	email (attac	rhed).								
HVAC - Corner	4th Floor Supply Duct Serving SE	Closed	Ferguson Mechanic	Blanchflower, Doug (Ferguson Mechanical Company, Inc.)	Meier, Geoffrey (	02/02/2018	Kevin Seidensticker	02/09/2018	02/08/18		Fourth Floor	No		TBD
Q:		n Model ill ere is rec ed with the	lustration. On Dra essed light fixtur e conflict.	awing M-204B-S, there is a 22x16 suppl es also below the duct. We propose shif										
A:	serving room S413K to be rearranged	Ferguson I within ro	via conference o oom to accommo	eb 9, 2018 at 12:12 am UTC all on 7.7.18, supply main to remain in date supply main shift. Diffuser/ Regist he room. WT/Ferguson has confirmed b	er locations i	n rooms S413K to	shift and to be	coordinated with	RCP. Supply diffus					
10 HVAC -	Fume Hood Ducting	Closed	Ferguson Mechanic	Blanchflower, Doug (Ferguson Mechanical Company, Inc.)	Meier, Geoffrey (	02/09/2018	Kevin Seidensticker	02/16/2018	02/15/18			TBD		TBD
Q:	applications. Upon review of ASHRAE	Ducts, Pa Manual,	ragraph 3.10 "Du Class 4 Air is clas	uct Schedule", notes for Class 4 Exhaus sified as ducts exhausting air from hoo onfirm this interpretation that these are	ds, which are	e located within la	bs. There are th	ree (3) rooms w	thin the contract d	ng Air classification ocuments that are	n references e identified a	s ASHRAE for as labs conta	aining	



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# Subject Status Responsible Received From Assignee Date Initiated RFI **Due Date** Closed Date Ball In Court Location Schedule Cost Cost Contractor Manager Impact Code Impact

RFI 023-000 Fume Hood Ducting.pdf

Geoffrey Meier (Goody, Clancy and Associates) Responded Thu Feb 15, 2018 at 06:43 am UTC
Per ACV Schedule Dwg M-801-S, Only three fume hoods identified. Please note that in Bulletin 10, fume hood in S022 was moved to S023 Mech Rm.. See attached page 2. GCA/gm & BVH/kb 2.14.18

RFI-040 - HVAC - Fume Hood Ducting (BVH Response).pdf