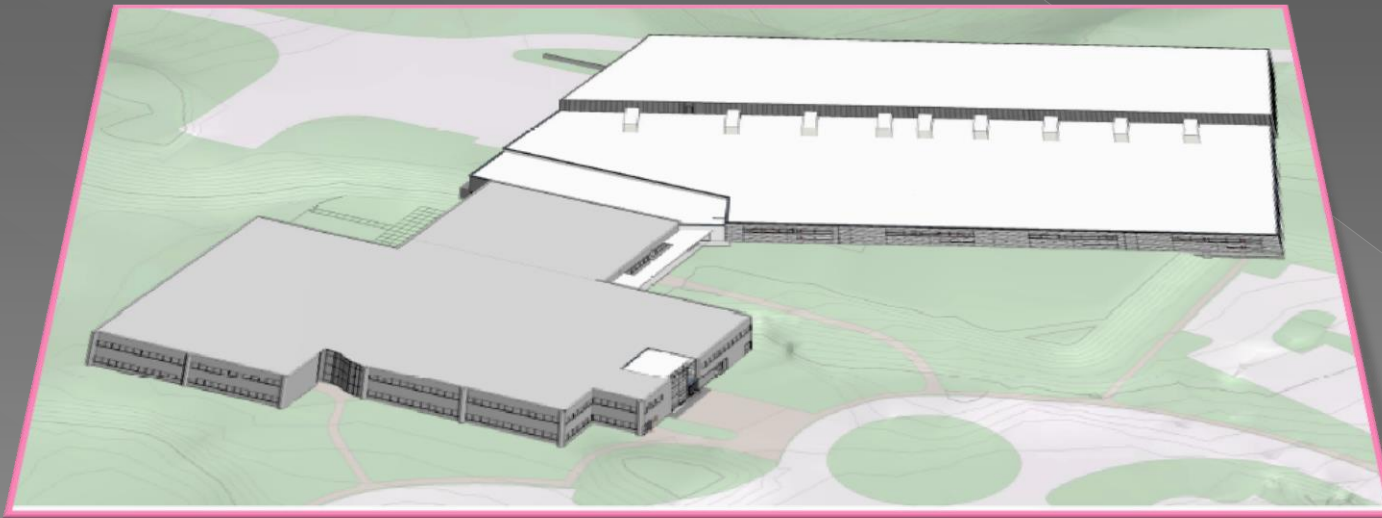


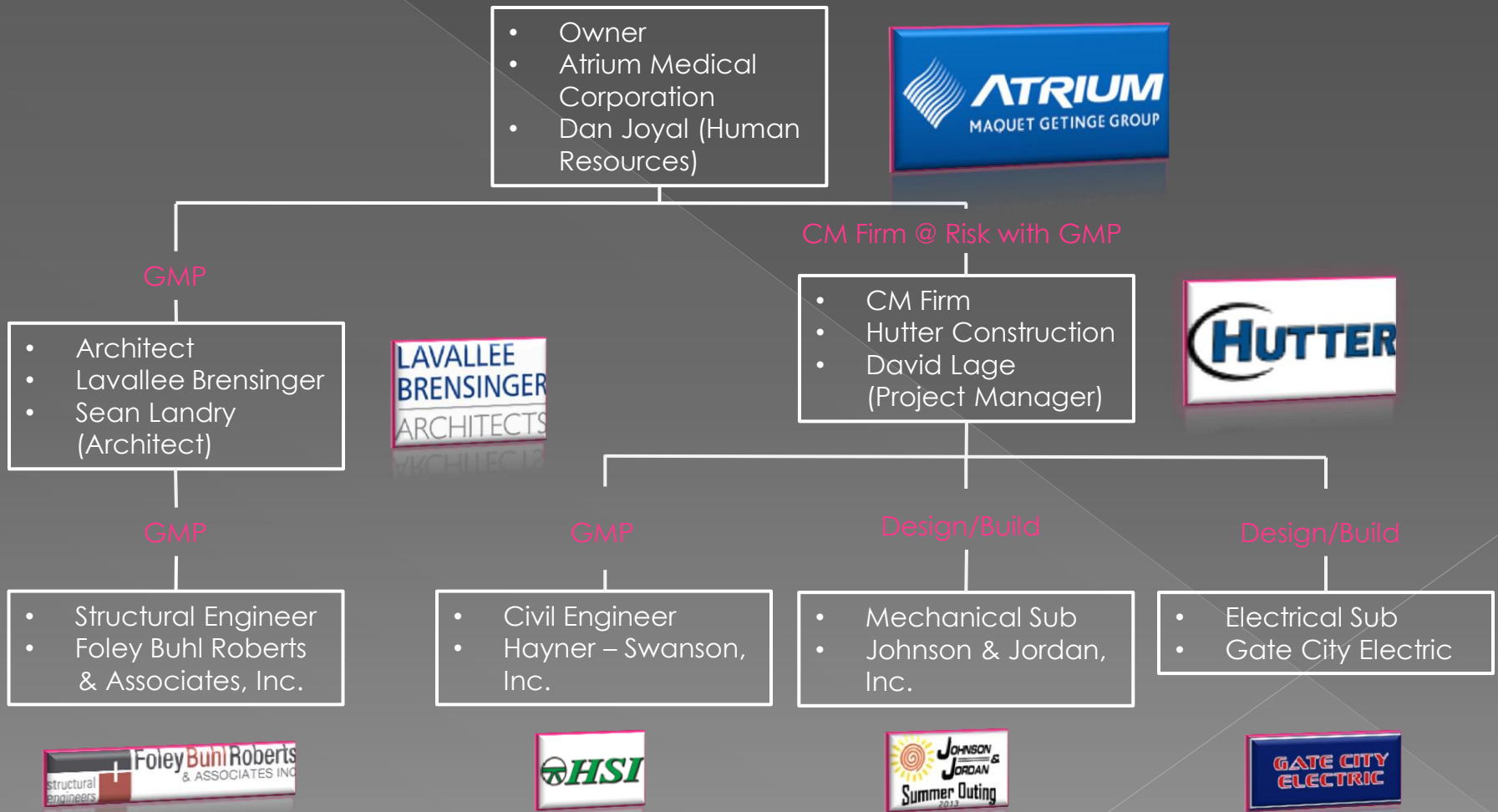
Technical Report # 1

Jeffrey Martin - CM



Project Delivery System

- This project is being delivered as CM Firm at Risk with a GMP (Guaranteed Max Price).





Client Information



Project Owner: Atrium Medical Corporation/
Maquet Getinge Group

What They Do: Manufacture and distribute
medical supplies and equipment.

Property Information: Address: 40 Continental Boulevard,
Merrimack NH, 03054
County: Hillsborough
PID: Map 3C Lot 40

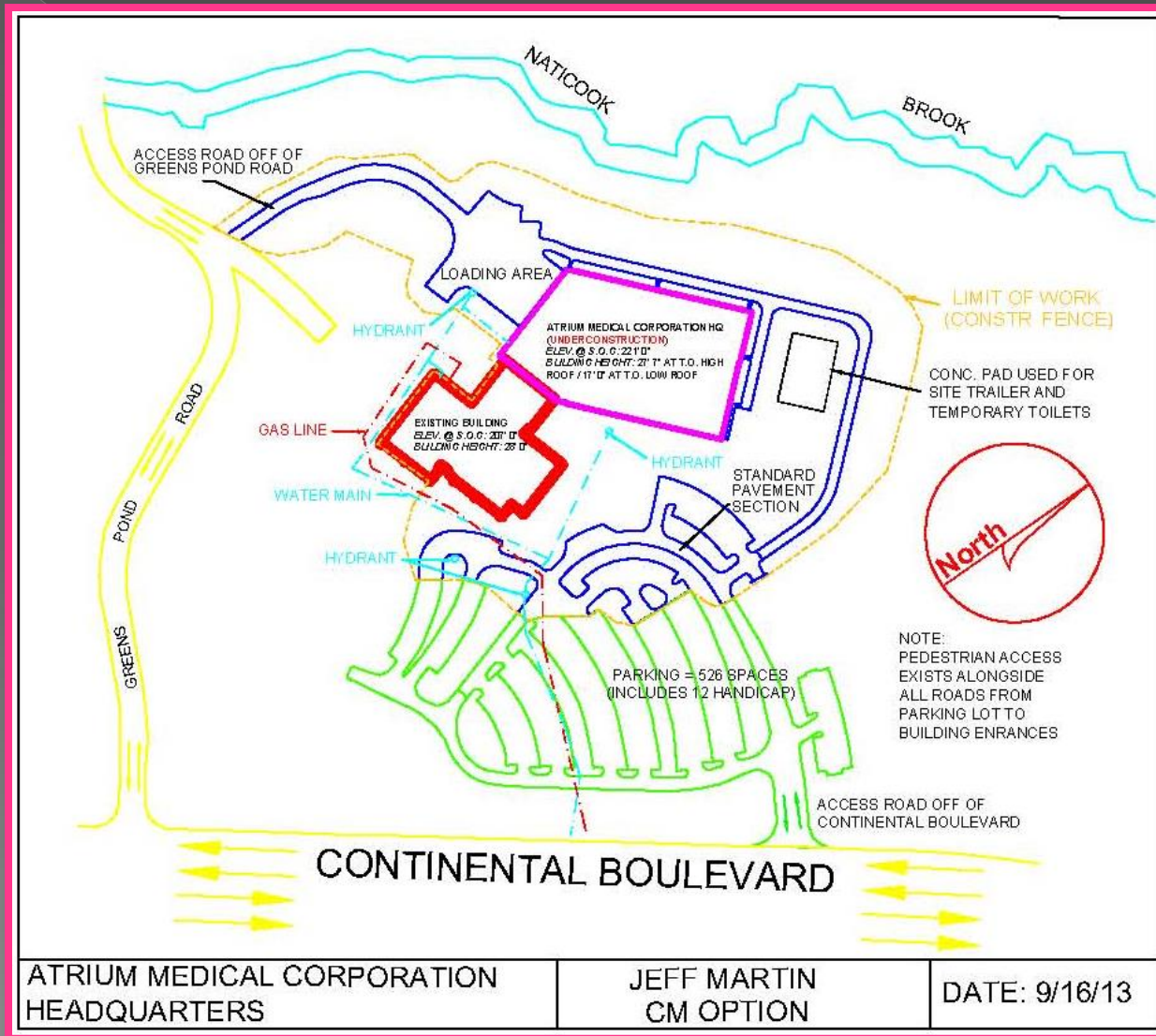
Building Purpose: Manufacturing/Business Offices/R&D
Storage (Warehouse): Business HQ

Atrium's Mission:

"We will continue to explore new and novel ways to help solve those unmet clinical needs with our passion for serving a global patient population. Together with our steadfast partnership with our multi-national healthcare customers, national account providers, and leading edge researchers, Atrium will endeavor to provide the highest level of quality service, code of business and healthcare compliance conduct, customer education and patient care. We will remain focused in those markets we serve and will continue to explore those evolving sciences and new technologies which can provide innovation to those most challenging healthcare issues of our times."



Existing Conditions Site Plan & Local Conditions



<u>Task Name</u>		<u>Duration(days)</u>	<u>Start</u>	<u>Finish</u>
Design/Engineering/Estimating		150	11-Feb-13	6-Sep-13
1	Evaluate Bids & Establish GMP	5	19-Aug-13	23-Aug-13
2	Notice to Proceed	5	26-Aug-13	30-Aug-13
3	Award Subcontracts	5	2-Sep-13	6-Sep-13

Project

Preconstruction		152	19-Mar-13	16-Oct-13
4	Structural Steel Fabrication	25	7-May-13	10-Jun-13
5	Fabricate & Deliver Rebar	10	14-May-13	27-May-13
6	Fabricate Windows & Entrances	35	29-Aug-13	16-Oct-13
7	Fabricate Sprinkler Piping	20	15-Aug-13	11-Sep-13

Schedule

Phase 1 Construction		273	13-May-13	28-May-14
8	Building Excavation	25	17-Jun-13	19-Jul-13
9	Foundations	25	19-Jun-13	23-Jul-13
10	Structural Steel Erection	40	24-Jul-13	17-Sep-13
11	Roofing	30	2-Oct-13	12-Nov-13
12	Windows/Ext. Doors	20	14-Nov-13	11-Dec-13
13	Cold Form Metal Framing/Sheathing	35	18-Sep-13	5-Nov-13

Summary

Phase 2 Construction		186	18-Sep-13	4-Jun-14
14	Plumbing (Under Slab)	20	18-Sep-13	22-Oct-13
15	Electrical (Under Slab)	20	23-Sep-13	18-Oct-13
16	Interior Concrete Slab on Grade	10	14-Oct-13	25-Oct-13
17	Interior Concrete Slab on Deck	2	23-Oct-13	24-Oct-13
18	Framing/GWB/Insulation	60	5-Dec-13	26-Feb-14
19	Interior Doors & Hardware	15	27-Mar-14	16-Apr-14
20	Sprinkler (Rough/Finish)	75	28-Oct-13	19-Mar-14
21	Plumbing (Rough/Finish)	105	16-Oct-13	16-Apr-14
22	Mechanical (Rough/Finish)	115	28-Oct-13	23-Apr-14
23	Electrical (Rough/Finish)	110	13-Nov-13	23-Apr-14
24	Commissioning	20	10-Apr-14	7-May-14
25	Inspections	10	24-Apr-14	7-May-14
26	Final Cleanup	20	8-May-14	4-Jun-14

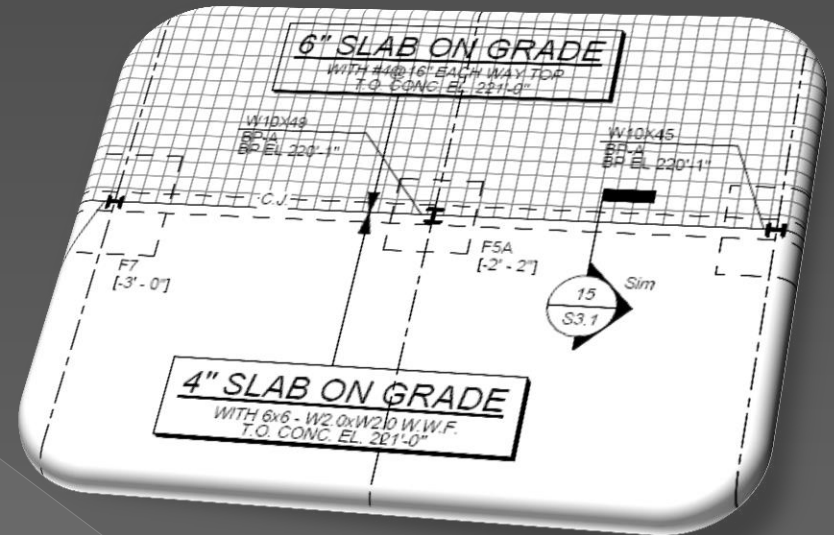
Building Systems Summary

Demolition

- No buildings or standing structures to be removed aside from small wooden gazebo
- Removal of existing drainage systems
- Removal of all existing concrete and paving sections aside from concrete helicopter pad (currently being used as site trailer/toilet facilities location)

Cast in Place Concrete

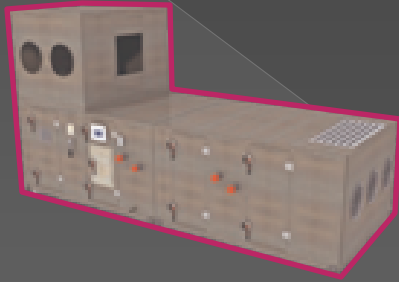
- 6" Slab in Warehouse, #4 Rebar @16" Each Way
- 4" Slab in Factory Area, 6x6 – W2.0xW2.0 WWF
- Continuous spread footings wrap entire structure
- Concrete column pads
- Forms for Exposed Concrete
 - Exterior grade plywood equal to APA B-B Plyform
 - Arch. Concrete forms should be HDO (High Density Overlaid) Plyform
- Forms for Concealed Concrete
 - HDO Plyform



Structural Steel System

- Full structural steel frame
 - Lateral system in the form of braced frames.
 - All connections to be bolted or welded unless specified otherwise.
- Composite deck only on mezzanine area, 1" topping thickness from top of deck
- (1) Mobile crane on site
- Exposed Structural Steel shall be hot dip galvanized

Building Systems Summary



Mechanical System

- Mechanical Room located in center of building in warehouse area.
 - Boilers/Pumps/Expansion Tanks/ Steam Generator for Humidifiers
- Roof fitted with (8) Air Handling Units and (4) Roof Top Units
- VAV control boxes for different zones
- Hot Water Supply/Return Heating System
 - Boilers located in Mech. Room 219
 - Chillers located on (plan) north side of building

Electrical System

- Power to building emanates from 1500 KVA pad mounted transformer located adjacent to loading docks
 - Feeds a 2000 Amp @ 277/480V, 3 phase, 4 wire, main switchboard (located in Elec. Room 213)
- Standby power comes from existing buildings 2188KVA, 277/480V, 3 Phase, 4 Wire standby generator.

Lighting System

- Manufacturing and Clean Room space will have a lighting system of 2x4 recessed lensed fluorescent luminaires.
 - Designed to achieve 55 to 75 maintained foot-candles throughout the space
 - Fixtures equipped with T8 fluorescent lamps with electronic ballasts
- The Warehouse area will have a lighting system composed of 2x4 suspended lensed high-bay fluorescent luminaires.
 - Designed to achieve 30 foot-candles



Project Cost Evaluation

 = Actual
 = RS Means

Total Project Cost	\$17,171,029	\$169.67/SF
Total Project Cost	\$10,712,500	\$105.85/SF
Building Construction Cost	\$13,660,987	\$134.99/SF
Building Construction Cost	\$8,009,000	\$79.14/SF
Structural Steel Framing Cost	\$1,273,160	\$12.58/SF
Structural Framing Cost	\$934,500	\$9.23/SF
Mechanical System Cost	\$6,062,535	\$59.91/SF
Mechanical System Cost	\$2,948,500	\$29.14/SF
Electrical Systems Cost	\$1,684,500	\$16.64/SF
Electrical System Cost	\$1,267,500	\$12.52/SF
Cast in Place Concrete Cost	\$637,494	\$6.30/SF
Cast in Place Concrete Cost	\$708,000	\$6.99/SF
Fire Suppression System Cost	\$228,080	\$2.25/SF
Fire Suppression System Cost	\$400,000	\$3.95/SF

Staffing Plan



President/CEO: Lars Traffie

Project Manager: David Lage

Asst. Project Manager: Owen Bertram

Project Estimator: Jay Lewis

Project Superintendent: Les Somero

Safety Officer/ General Super.: Tim Reid

Operations Officer: Kurt Traffie

Proj. Manager (site work): Bernie Traywick

Asst. Proj. Manager (site work): Jared Seppala

Proj. Manager (metal stud/GWB): Dwayne White

Chief Financial Officer: Richard Upsall

Human Resources: Natasha Michelson



Hutter Construction Headquarters

