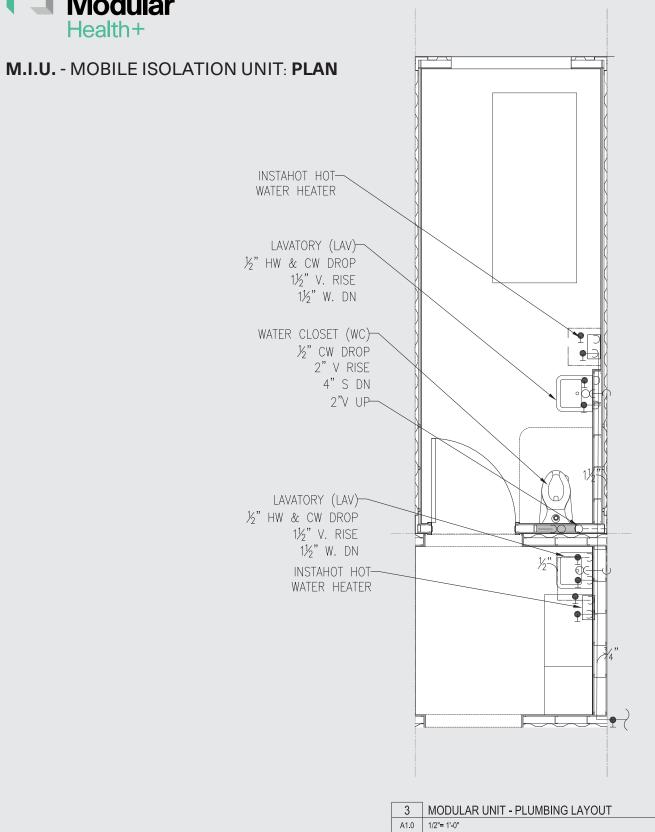
# M.I.U. - Mobile Isolation Unit

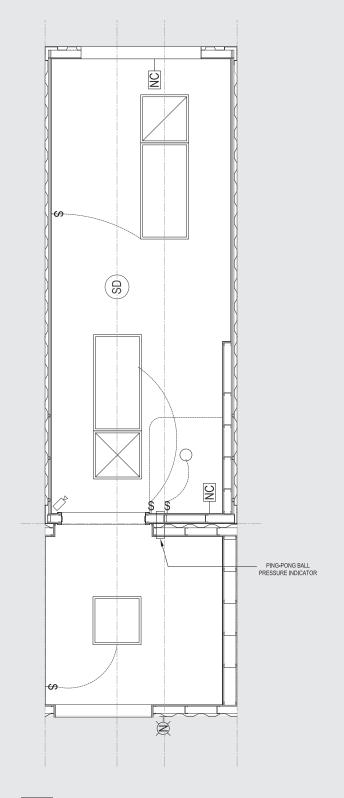
## **PURCHASE ORDER**

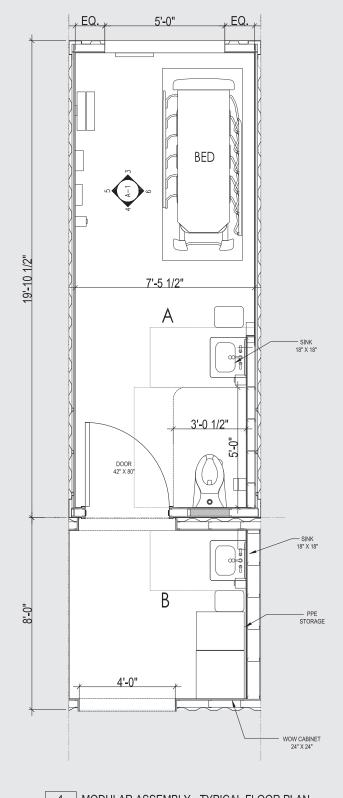
April 6, 2020









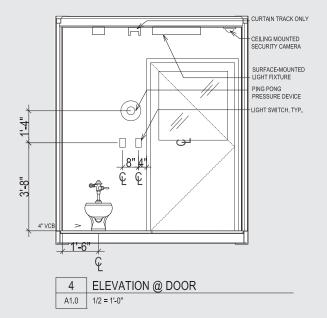


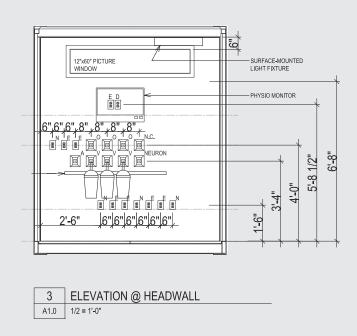
1 MODULAR ASSEMBLY - TYPICAL FLOOR PLAN A1.0 1/2 = 1'-0"

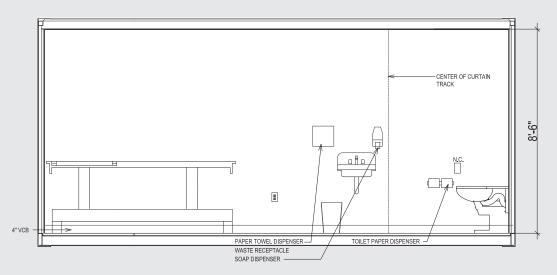


#### M.I.U. - MOBILE ISOLATION UNIT: INTERIOR ELEVATIONS

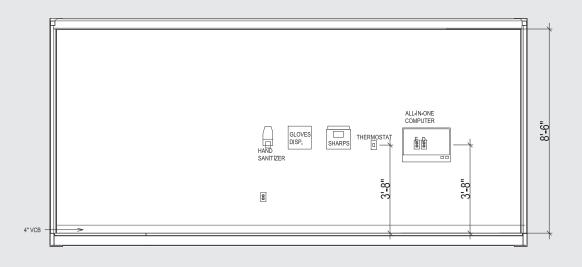
Designed as a flexible and rapidly deployable solution for infection control, the M.I.U. provides a mobile suite of 5 medical isolation rooms that can augment existing hospital facilities or stand on their own. As per Hospital isolation specifications, each suite includes an anteroom and bedroom with negative pressure, as well as full hospital isolation room fit-out including headwall with medical gasses, among others. Power can be provided by generator and water/waste by a water truck and holding tank, which allows them to function in parking lots, city streets, or wherever the end user deems appropriate. These units can be set with a fork-lift which eliminates the need for a crane and dramatically increases the speed of deployment.







6 ELEVATION @ BEDROOM WALL
A1.0 1/4 = 1'-0"



5 ELEVATION @ BEDROOM WALL

A1.0 1/4 = 1'-0"

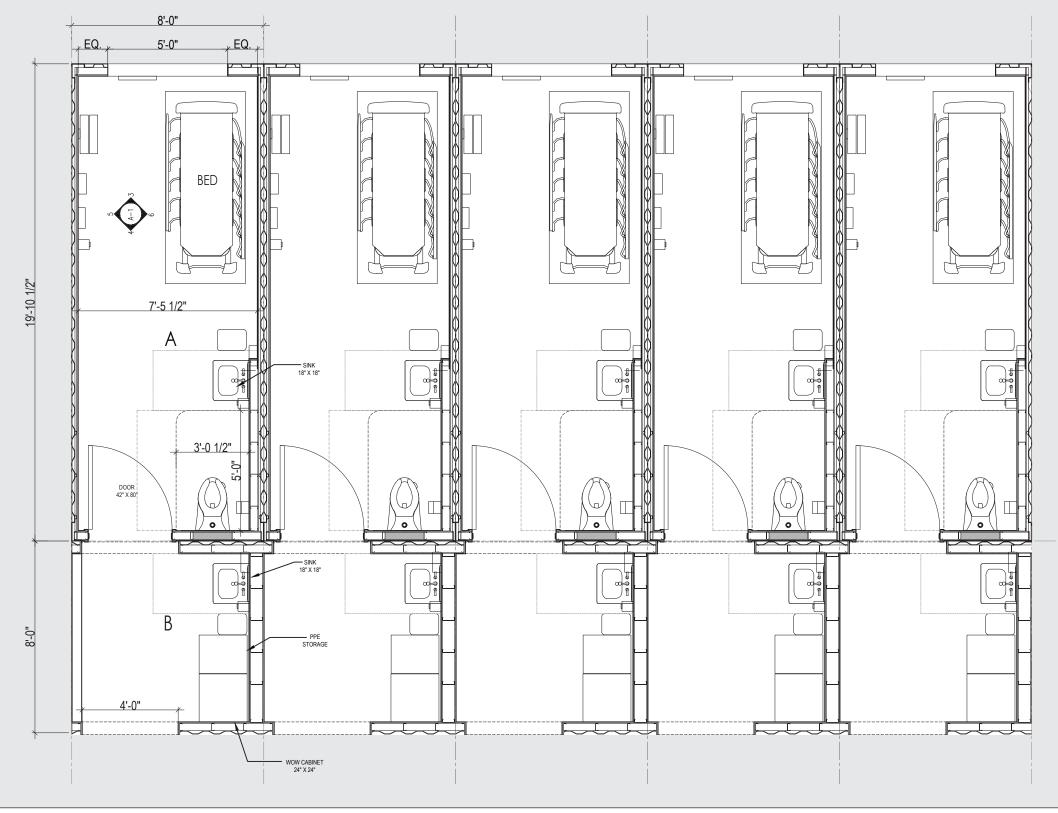


### M.I.U. - MOBILE ISOLATION UNIT: PLAN AND ELEVATION

## **VIEW VIDEO CEILING** -**WALLS** -**FRP PANEL FRP PANEL WINDOW** (12 X 60) SUPPLY **EXHAUST** AR FLOW WOW **HEADWALL** FLOORS -**CABINET** W/ MEDICAL GAS SHEET VINYL W/ 6" V.C.B.

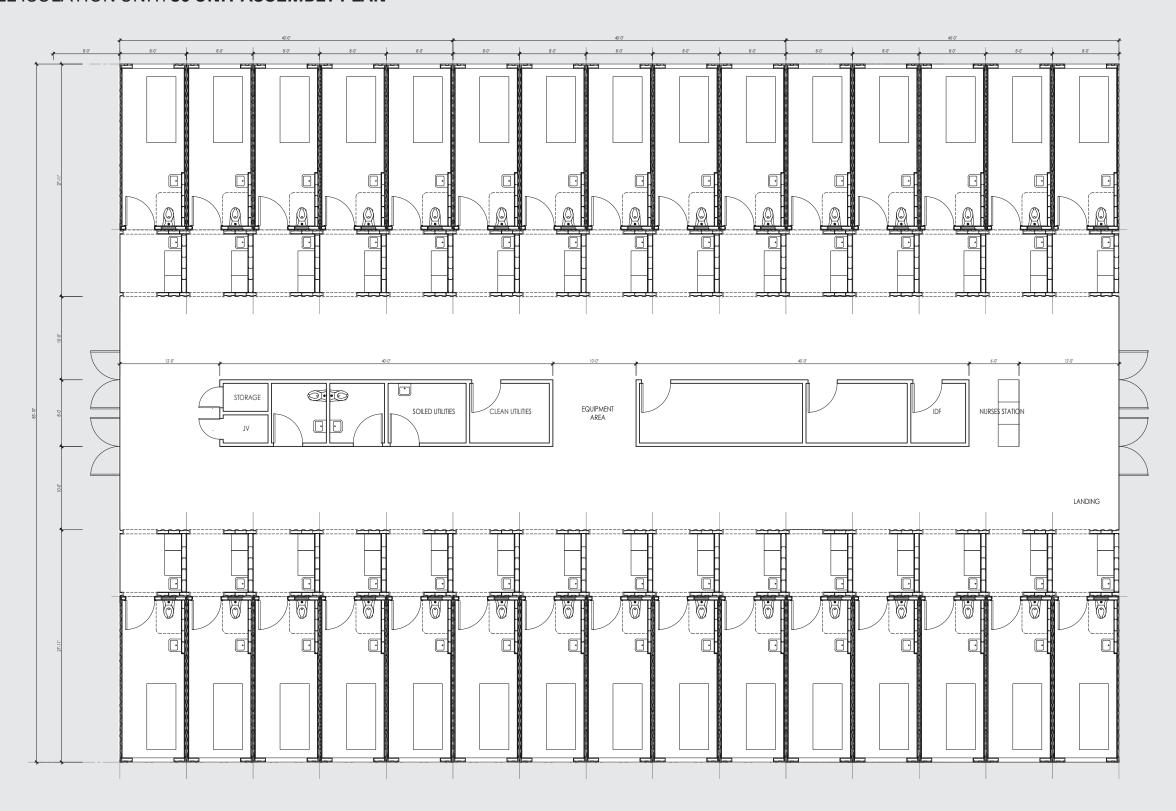


### M.I.U. - MOBILE ISOLATION UNIT: 5 UNIT ASSEMBLY PLAN





#### M.I.U. - MOBILE ISOLATION UNIT: 30 UNIT ASSEMBLY PLAN





### M.I.U. - MOBILE ISOLATION UNIT: SPECIFICATIONS

Bill of Materials - MedModular 1.0 - MODULAR [Patient + Atrium Room]			
SUB ITEM	Product	Specification	
N/A	Polyurethane foam		
Electrical	Electric Metallic Tube 3/4"		
Electrical	12 AWG wire	Green	
Electrical	12 AWG wire	Black	
Electrical	12 AWG wire	White	
Electrical	12 AWG wire	Red Brown	
Electrical	12 AWG wire		
Electrical	Wire Molding	Wiremold 500 0.5-in L Ivory Raceway	
Ceiling	Ceiling finishing, Dry area	FRP- Crane 7505 4 x 10	
Accessories	Toilet paper holder		
Accessories	Soap dispenser	Motion sensor	
Accessories	Mirror	Serenity mirror: 30"W x 42" H	
Accessories	Grab bar	ADA compliance, 6 pcs. Stainless steel. Solid blocking	
Doors	Entry Door	ADA compliant. Automatic	
Doors	Bathroom [BR] door handle	Min. w= 915, door wide handle	
Doors	Bathroom door	ADA compliant	
Electrical	Fire strobe	4x4x21/8 inch back box	
Electrical	Fire detector	4-inch octagonal back box	
Electrical	Toilet emergency pull station	Nurse	
Electrical	Remote emergency pull station indicator light	Nurse	
Electrical	Patient duty station	Nurse	
Electrical	CATV connection		
Electrical	GFCI duplex receptacle	Normal, Hubbel #GFR8300SG	
Electrical	Duplex receptacle with USB charger	Normal, Hubbel #USB8300AC5W	
Electrical	Quad receptacle	Normal	
Electrical	Qiad receptacle	Emergency	
Electrical	4-plex adapter plate	White	
Electrical	4-plex adapter plate	Red	
Electrical	Faucet junction box	Transformer space needed diameter 60mm	
Electrical	led night outlet box		
Electrical	Nurse call button	Nurse	
Electrical	Data outlet	Nurse	
Electrical	CATV control interface and data/telephone jacks		
Electrical	Duplex receptacle	Normal	
Electrical	Ceiling outlet box	for nurse components	
Electrical	Headwall quadro outlet boxes	4 in square box	
Electrical	Wallplate	Receptacle, white	
Electrical	Wall outlet box		

HVAC	Heating/Cooling-Mini Split	
HVAC	Supply Fan	
HVAC	Exhaust Fan	
HVAC	Air Filtration - Supply	MERV 14 Rating
HVAC	Air Filtration - Exhaust	HEPA (99.97% @ 0.3um DOP)
Lighting	RA-16	
Lighting	RB-9	
Lighting	RC.53	
Lighting	WB-3	
Lighting	RA-24	
Piping	Connection pipe for faucets	
Piping	Drain pipe for sinks	32mm, 2 pcs
Water equipment	Bathroom sink	Corian 19mm with 100mm backsplash Corian 5610 or equal
Water equipment	Bathroom sink faucet	Wall mounted, sensor control
Water equipment	Toilet	Wall hung toilet
Water equipment	Toilet frame + cistern	GIS wall support + geberit flushing tank
Water equipment	Toilet push button	automatic sensor
Ceiling	Ceiling frame	7/8" Steel Hat Channel
Ceiling	Suspended ceiling sheets dry+wet area	Gypsum board (Purpleboard), 13mm
Ceiling	Suspended ceiling sheets dry+wet, incl. Seems	Gypsum board (Purpleboard), 13mm
Floor	Floor base structure and supports	Existing
Floor	Floor finishing, dry area	VCT - Tarkett 0.1245"
Roof	Insulation for roof	SIP Panel / Thermax
Roof	Module roof steel sheet + structure	Existing
Wall	0,6mm aluminum plate	Existing
Wall	Wall Panel,dry+wet area	FRP- Crane 7505 4 x 10
Wall	Wall Stud	7/8" Steel Hat Channel
Wall	Insulation	SIP Panel / Thermax
Wall	Wall gypsum board	Gypsum board (Purpleboard), 13mm
Equipment	Medical Gases - Headwall	Cradle Assembly

#### Equipment by Others

Medical	Halos	Hold canisters for suction
Medical	Dirty Linen Container	
Medical	Trash (Red Bag) container	
Medical	Patient Monitors	Phillips: or similar
Medical	Patient Bed	VersaCare Bed From Hill-Rom; or similar W40" x L95"
Medical	Emergency Cart	Detecto Emergency Cart; or similar W 28" x D 21.5" x H 42"
Medical	Procedure Cart	Detecto Procedure Cart; or similar W 28" x D 21.5" x H 42"
Medical	Ventilator	Siemens Maquet Servo-I Ventilator or similar W 18" x H 40" x L 18"
Medical	Medical Gases - Headwall	I compressed air; I for oxygen, 2 for suction

Project Responsibility Matrix	Version: 01	
M.I.U - MOBILE ISOLATION UNITS		I
Teams Identified:	Notes: Produced by FullStack Modu	ılar
Scope	Provide Material	Provide Labor
1 Professional Services		
2 Of Record Professionals: AOR		NA
3 Of Record Professionals: EOR (Structural & MEP-FP)		NA
4 Civil Engineer		NA 5604
5 Modular Consultants: Modular Structural Engineer 6 Integrator (Implementation Documents & Production Model, BIM)		FSM FSM
7 Survey: Lot Survey, Existing Conditions 3D Scan		NA
8 Geo-Tech		NA NA
9 Demolition & Foundations		1474
10 Demolition of Existing Conditions (if applicable)	GC	GC
11 Hazardous Material Abatement, Asbestos Removal, Dewatering (if applicable)	GC	GC
12 Site Prep Work, clean-up and small demo	GC	GC
13 Support of Excavation (SOE), Excavation	NA	NA
14 Underpinning (if applicable)	NA	NA
15 Building Foundations	NA	NA
16 Site Work		
17 Landscaping	NA	NA
18 Hardscape	NA	NA
19 Incoming/Outgoing City and Public Utilities	GC	GC
20 New Sidewalks & Curbs	NA	NA
21 Street Patching and Paving	NA	NA
22 Construction Fence with Gate as required by local Building Department	NA	NA
23 Site Security as required by local Building Department	NA	NA
24 Logistics: Transportation & Mod Stacking	5014	5014
25 Transport of finished Mods from Factory to Project Site	FSM	FSM
26 Lay-down area adjacent to or near project site location ( <b>if applicable</b> )	GC GC	GC GC
27 Forklift Operator 28 Mod Setting Process	GC	GC
29 Roofing Crew, Carpenter for Mod Setting Process	NA NA	NA NA
30 Material & Crew Hoist (if required)	NA NA	NA NA
31 On-Site surveying/metrology	FSM	FSM
32 Structural Components	10	10111
33 Structural Plinth to Receive Modular Units (in most cases the Base Building)	NA	NA
34 Interface Connections between Plinth and 1st level of Modular Units	NA	NA
35 Modular Chassis	FSM	FSM
36 Modular Connection Pieces: Match plates, bolts, nuts, threaded rod, setting cones	FSM	FSM
37 Independent (Separate) Brace Frame for Modular Levels	N/A	N/A
38 Structural Support & Connections for Window Washing (BMUs)	N/A	N/A
39 Façade Anchorage for Storefront & Base Building Scope (Non-Modular)	N/A	N/A
40 Façade Anchorage on Modular Units	N/A	N/A
41 On-Site Non-Modular Scope (Base Building)		
All scope below Modular Level: Includes but not limited to Parking, Retail, Base Building Structure, Storefront, Finishes,		
42 Routing of all Building Systems to modular level, Waterproofing, MEPFP Distribution	GC	GC
43 All main building Equipment. (i.e. Boiler, Water Heater, Emergency Generator, WaterTower)	GC	GC
44 FFE	Hospital	Hospital
45 Exterior Building Signage	Hospital	Hospital
46 Volumetric Mods (Modular Portion of Building)		
47 Modular Unit Area		
48 Facade design	FSM	FSM
49 Exterior Wall Fabrication (Includes Finish, Glazing, Insulation, Vapor Barrier, Framing, Grillage)	FSM	FSM
50 Exterior wall finish cladding	FSM	FSM
Facade Unit Protection from Factory to Project Site	FSM	FSM
Incorporation of Window Washing (BMU) design (if applicable)	N/A FSM	N/A FSM
Drywall & Framing: All interior wall partitions and blocking as required  FAL Drop Collings: Framed and Shortreek	FSM	FSM
Drop Ceilings; Framed and Sheetrock  Insulation & Sealant: Includes all Wall Area and Ceiling/Floor insulation as required	FSM	FSM
55 Insulation & Sealant: Includes all Wall Area and Ceiling/Floor insulation as required	FSIVI	FSIVI

Waterproofing & Flashing: Temporary Mod Roofing Layer, Weather-Proof enclosure for storage & transport Fasteners: Screw, Nails, Staples, etc. and required tooling	Provide Material	Provide Labor
	FSM	
		FSM
	FSM	FSM
Doors & Hardware within Mod: Unit Entry Door, Interior Room Doors, Closet Door, Access Panels includes frames and	FSM	FSM
Doors & Hardware at Mateline interface: Unit Entry Door, Interior Room Doors, Closet Door, including frames and	FSM	FSM
Finish Carpentry: Kitchen Cabinet, Countertop, End-Wall Panels, Base trim	FSM	FSM
Stone & Tile: Bathroom wall surround, floor tile, backsplash	FSM	FSM
Rated Sub-Floor Layer: CemDeck/Versaroc	FSM	FSM
Flooring: underlayment, sound absorption, Finish material (Wood Laminate or LVT)	FSM	FSM
Painting: Interior walls and ceiling. Tape, Spackle, and Prime Coat	FSM	FSM
Painting: Interior walls and ceiling. Finish Coat		FSM
		FSM
	FSM	FSM
POD Accessories: Medicine Cabinet, Mirror, towel bar, shower curtain rail, hooks, toilet paper holder, bath fixtures	ECNA	ECNA
Special Millworks Built out Closets	,	FSM N/A
	,	FSM
		FSM
	FSM	FSM
	FSM	FSM
	FSM	FSM
Low Voltage: Conduit runs ONLY for Fire alarm and Intercom service	FSM	FSM
ublic Corridors		
Drywall and Framing	FSM	FSM
Cable tray and Supports for MEP	FSM	FSM
Drop Ceiling	FSM	FSM
Painting	FSM	FSM
Finish Flooring	FSM	FSM
Signage: Egress, Wayfinding, Unit demarcation, etc	Hospital	Hospital
Wall Mounted Cabinets (i.e. Fire Extinguishers)	Hospital	Hospital
tair & Elevator Core		
	FSM	FSM
		FSM
		FSM
		FSM
	Hospital	Hospital
	CC	CC C
		GC GC
	GC	UL.
·	NIΛ	NA
		NA NA
·		NA NA
		NA NA
		NA NA
		FSM
On-site MEP-FP Connections		
Mechanical: Mateline splice connections between mods and the Vertical Piping	FSM	GC
Electrical: Connection to main feed, in unit panel, splice between mods	FSM	GC
Plumbing: Mateline splice connections for vertical stacks	FSM	GC
Fire Protection: Mateline splice connections for vertical stacks and horizontal unit runs	FSM	GC
Low Voltage: Installation of Fire alarm and Intercom service On-Site	GC	GC
Installation of roof metal between hallway module and patient rooms.	FSM	GC
On-Site Finish Work - Modular Unit		
	N/A	N/A
Gyp Wallboard installation at locations where MEP mateline connections occur between mods/between floors		
Gyp Wallboard installation at locations where MEP mateline connections occur between mods/between floors Window Treatments	N/A	N/A
Window Treatments Base & Opening Trim	N/A FSM	N/A GC
Window Treatments	,	/
t	Painting: Interior walls and ceiling. Tape, Spackle, and Prime Coat Painting: Interior walls and ceiling. Finish Coat Wall Finishes (other than paint) FRP Only MOD Accessories: Closet Shelf & Rod POD Accessories: Medicine Cabinet, Mirror, towel bar, shower curtain rail, hooks, toilet paper holder, bath fixtures Special Millwork: Built-out Closets Appliances: Refrigerator, Dishwasher, Range, OTR Microwave, Washer/Oryer Fixtures: Includes sinks, faucets, bathtub/shower units, showerhead, toilet, flush plate Electrical: local panel, all in-unit electrical wiring, outlets, switches Plumbing: All distribution for domestic hot/cold water service, sanitary and storm piping HNAC: Unit equipment within Mod (mini-split) and all local system distribution and returns Fire Protection: Fire caulking as required, sprinkler pipe distribution, sprinkler heads and caps, standpipe Exhaust Systems: Ducting and ventilation systems as required in-unit Low Voltage: In-unit data & cable wiring to data panel, Innerduct only for support of service to unit Low Voltage: Conduit runs ONLY for Fire alarm and Intercom service ublic Corridors Drywall and Framing Cable tray and Supports for MEP Drop Ceiling Painting Finish Flooring Signage: Egress, Wayfinding, Unit demarcation, etc Wall Mounted Cabinets (i.e. Fire Extinguishers) Lait & Elevator Core Stairs: Metal Frame egress stairs, handrailing, finish rated wall construction Painting: Interior walls and ceiling. Finish Coat Finish Flooring Signage ervice Closets Electrical distribution from Gen to Modular connection Data Distribution from closet to connect to Mod levator System Rated Elevator Shaft Connection Clips Elevator Machine Room HVAC requirements Bulkhead Units doolnar Mateline splice connections between mods and the Vertical Piping Elevator Machine Form Lord Connection to main feed, in unit panel, splice between mods Plumbing: Wateline splice connections between mods and the Vertical Piping Electrical: Connection to main feed, in unit panel, splice between mods	Painting: Interior walls and ceiling. Tape, Spackle, and Prime Coat Painting: Interior walls and ceiling. Finish Coat Painting: Interior walls and ceiling. Finish Coat Painting: Interior walls and ceiling. Finish Coat PSM WAII Finishes; Other than paint; PRP Only SSM MOD Accessories: Closet Shelf & Rod POD Accessories: Medicine Cabliert, Mirror, towel bar, shower curtain rail, hooks, toilet paper holder, bath fixtures  Special Millwork: Built-out Closets Appliances: Refrigerator, Dishwasher, Range, OTR Microwave, Washer/Dryer Hospital Pixtures: Includes sinks, faucets, bathbub/shower units, showerhead, toilet, flish plate Electrical local panel, all in-unit electrical wiring units, switches Plumbing: All distribution for domestic hot/cold water service, sanitary and storm piping SSM Plumbing: All distribution for domestic hot/cold water service, sanitary and storm piping SSM Pire Protection: Fire caulking as required, sprinkler pipe distribution, sprinkler heads and caps, standpipe Eshaust Systems: Ducting and wentilation systems as required in-unit Low Voltage: Conduit runs ONLY for Fire alarm and intercom service Using the protection of the conduction of the protection of the pro

	Scope	Provide Material	Provide Labor
117	Appliance Installation (if required beyond factory scope, such as Stackable Washer/Dryer)	GC	GC
118	Completion of top step for Egress Stairs and Railing within the Stair Core	N/A	N/A
119	Connections from main building services equipment to risers.	GC	GC
120	Connections to Utilities between site built and mods	GC	GC
121	Halos	Hospital	Hospital
122	Dirty Linen Container	Hospital	Hospital
123	Trash (Red Bag) container	Hospital	Hospital
124	Patient Monitors	Hospital	Hospital
125	Patient Bed	Hospital	Hospital
126	Emergency Cart	Hospital	Hospital
127	Procedure Cart	Hospital	Hospital
128	Ventilator	Hospital	Hospital
129	Medical Gases - Headwall	Hospital	Hospital
130	On-Site Finish Work - Site		
131	Generator	Hospital	Hospital
132	Water	Hospital	Hospital
133	Waste	Hospital	Hospital
134	Roof Levels		
135	Final roofing system for main roof areas and bulkhead, includes flashing as required	NA	NA
136	Vent Support framing	NA	NA
###	Parapet	FSM	NA
138	Fall Protection Tie-Off	NA	NA
139	Equipment Dunnage	FSM	NA
140	Structural Stub-ups for support of Dunnage (if required)	FSM	NA
141	Rooftop Equipment for Building Services	NA	NA
142	Condenser Units for Mini-Split System	FSM	GC
143	Roof drain and cap. FSM to provide point of entry, GC to complete install at roof level.	GC	GC
144	Green Roof Systems and/or Solar applications	NA	NA
145	Bulkhead	NA	NA
146	Inspections		
147	Factory Inspections for QAQC compliance by 3rd Party Agency		FSM
148	Factory Inspections by PE for MEP design compliance & 5% special inspections		NA
149	On-Site Inspections of Building Systems		NA
146	All Special Inspections		NA
147	Other		
148	General Conditions (on-site)		GC
149	GL Insurance (Pass through Cost)		GC
150	Builders Risk Insurance (Pass through Cost, if required)		GC
151	Umbrella Insurance (if required by State)		GC

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M.I.U. Modular Isolation Unit April 4, 2020



#### **FULLSTACK MODULAR: INTRODUCTION**

FULL STACK MODULAR is the leading innovator in end-to-end design and construction of mid to high-rise modular residential buildings in urban areas. Our approach is technology driven, fully integrated and radically efficient. We can build complex projects faster, with less disruption at a lower cost. We also build more off-site and have a higher height capability than all others in the modular construction space in the US. Other advantages include a best-in-class structural system, self sealing facades, tech-enhanced production and our collective bargaining agreement with the Building and Construction Trades Council of Greater New York and Vicinity which makes us the only Union oriented modular builder in the Northeast. Founded in 2016, our company is based in the Brooklyn Navy Yard and we are currently working on multiple project in the Boston-New York-DC Metro Area with plans to expand to the West Coast and abroad.





