

**SOUTHERN CONNECTICUT STATE UNIVERSITY
NEW ACADEMIC LABORATORY BUILDING
NEW HAVEN, CT**

**State of Connecticut Department of Construction Services
Project No. BI-RS-283-CMr**

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00 62 02	Contractor Statement of Legal Employees <i>(dated 12.10.12)</i>
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01 31 00	Project Management and Coordination – CMR
01 31 19	Project Meetings – CMR
01 32 16.13	CPM Schedules – CMR
01 32 33	Photographic Documentation – CMR
01 33 00	Submittal Procedures – CMR
01 35 16	Alteration Project Procedures – CMR
01 35 26	Government Safety Requirements – CMR
01 42 20	Reference Standards – CMR
01 45 00	Quality Control – CMR
01 45 23.13	Testing for Indoor Air Quality, Baseline IAQ, & Materials – CMR
01 50 00	Temporary Facilities and Controls – CMR
01 56 39	Temporary Tree and Plant Protection
01 57 30	Indoor Environmental Control – CMR
01 57 40	Construction Indoor Air Quality Management Plan – CMR
01 60 00	Product Requirements – CMR
01 71 23	Field Engineering – CMR
01 73 29	Cutting and Patching – CMR
01 74 19	Construction Waste Management and Disposal – CMR
01 75 00	Starting of Systems – CMR
01 77 00	Closeout Procedures – CMR
01 78 23	Operation and Maintenance Data – CMR
01 78 30	Warranties and Bonds – CMR
01 81 10	Sustainable Design Requirements
01 91 00	Commissioning – CMR
DIVISION 02	EXISTING CONDITIONS
02 30 00	Subsurface Investigation
02 41 00	Demolition
02 60 00	Excavated Soil and Material Management Plan
DIVISION 03	CONCRETE
03 30 00	Cast-in-Place Concrete
03 33 00	Architectural Concrete
03 35 15	Concrete Finishing
03 45 00	Architectural Precast Concrete
DIVISION 04	MASONRY
04 20 00	Unit Masonry
04 22 00	Load Bearing Unit Masonry – CMU

SPECIFICATIONS (all dated November 21, 2012, unless otherwise noted)

SECTION NO.	TITLE
DIVISION 05	METALS
05 12 00	Structural Steel
05 30 00	Metal Decking
05 40 00	Cold-Formed Metal Framing
05 50 00	Metal Fabrications
05 51 00	Metal Stairs and Railings
05 53 00	Metal Gratings
05 55 00	Aluminum Fabrications
05 73 00	Decorative Metal Railings
05 75 00	Decorative Formed Metal
DIVISION 06	WOOD, PLASTICS AND COMPOSITES
06 10 00	Rough Carpentry
06 16 00	Sheathing
06 40 20	Interior Architectural Woodwork
06 65 00	Plastic Fabrications
DIVISION 07	THERMAL AND MOISTURE PROTECTION
07 14 13	Hot Fluid-Applied Waterproofing
07 14 16	Cold Fluid-Applied Waterproofing
07 16 00	Polymer Modified Cement Waterproofing
07 21 00	Thermal Insulation
07 27 00	Air Barriers
07 42 00	Metal Wall Panels
07 46 10	Fiber-Cement Siding
07 54 00	Thermoplastic Membrane Roofing
07 61 00	Sheet Metal Roofing
07 62 00	Sheet Metal Flashing and Trim
07 72 00	Roof Accessories
07 81 00	Applied Fireproofing
07 84 10	Penetration Firestopping
07 84 40	Fire-Resistive Joint Systems
07 92 00	Joint Sealants
07 95 00	Expansion Control
DIVISION 08	OPENINGS
08 11 10	Hollow Metal Doors and Frames
08 14 00	Flush Wood Doors
08 31 10	Access Doors and Frames
08 34 70	Sound-Control Door Assemblies
08 41 13	Aluminum-Framed Entrances
08 44 10	Glazed Aluminum Curtain Walls
08 44 16	Fire-Rated Glazed Steel Curtain Wall System
08 51 10	Aluminum Windows
08 63 00	Metal-Framed Skylights
08 71 00	Finish Hardware
08 71 13	Automatic Door Operators
08 75 13	Automatic Window Operators
08 80 00	Glazing
08 81 13	Decorative Glass Glazing

SPECIFICATIONS (all dated November 21, 2012, unless otherwise noted)	
SECTION NO.	TITLE
08 90 00	Louvers and Vents
DIVISION 09	FINISHES
09 21 10	Gypsum Board Assemblies
09 21 20	Gypsum Board Shaft Wall Assemblies
09 30 00	Tiling
09 51 00	Acoustical Ceilings
09 63 40	Stone Flooring
09 65 10	Resilient Flooring and Accessories
09 67 10	Resinous Flooring
09 68 10	Tile Carpeting
09 72 00	Wall Coverings
09 81 20	Sprayed Acoustic Insulation
09 84 30	Sound-Absorbing Panels
09 90 00	Painting and Coating
DIVISION 10	SPECIALTIES
10 11 00	Visual Display Surfaces
10 14 00	Signage
10 21 10	Toilet Compartments
10 21 23	Cubicle Curtains and Track
10 22 15	Chain Link Partitions
10 26 00	Wall and Door Protection
10 28 00	Toilet Accessories
10 44 00	Fire-Protection Specialties
10 51 13	Lockers
10 56 23	Laboratory Storage Shelving
10 56 30	High Density Shelving System
10 71 10	Sun Control Devices
DIVISION 11	EQUIPMENT
11 31 00	Appliances
11 52 00	Audiovisual Systems <i>(NIC: This section provided for reference only.)</i>
11 52 10	Projection Screens
11 53 00	Laboratory Equipment – General Requirements
11 53 13	Laboratory Fume Hoods
11 53 19	Sterilizing and Washing Equipment
11 53 43	Laboratory Service Fixtures
11 53 60	Miscellaneous Laboratory Equipment
DIVISION 12	FURNISHINGS
12 24 00	Shades
12 35 53	Laboratory Casework – General Requirements
12 35 54	Metal Laboratory Casework
12 35 56	Plastic Laminate Laboratory Casework
12 35 57	Polypropylene Laboratory Casework
12 48 10	Entrance Floor Mats and Frames
12 93 00	Site Furnishings

SPECIFICATIONS (all dated November 21, 2012, unless otherwise noted)	
SECTION NO.	TITLE
DIVISION 13	SPECIAL CONSTRUCTION
13 03 90	Controlled Environment Rooms
13 13 02	Aquarium System
13 24 20	Growth Chambers
DIVISION 14	CONVEYING EQUIPMENT
14 21 00	Electric Traction Elevators
DIVISION 21	FIRE SUPPRESSION
21 00 10	Fire Suppression Trades Reference to General Conditions
21 05 13	Common Motor Requirements for Fire Suppression Equipment
21 05 17	Sleeves and Sleeve Seals for Fire-Suppression Piping
21 05 18	Escutcheons for Fire-Suppression Piping
21 05 48	Vibration and Seismic Controls for Fire-Suppression Piping and Equipment
21 05 53	Identification for Fire-Suppression Piping and Equipment
21 08 00	Commissioning of Fire Suppression Systems
21 12 00	Fire-Suppression Standpipes
21 13 13	Wet-Pipe Sprinkler Systems
21 13 16	Dry-Pipe Sprinkler Systems
21 31 13	Electric-Drive, Centrifugal Fire Pumps
21 34 00	Pressure-Maintenance Pumps
21 39 00	Controllers for Fire-Pump Drivers
DIVISION 22	PLUMBING
22 00 10	General Conditions for Mechanical Trades
22 05 13	Common Motor Requirements for Plumbing Equipment
22 05 16	Expansion Fittings and Loops for Plumbing Piping
22 05 17	Sleeves and Sleeve Seals for Plumbing Piping
22 05 18	Escutcheons for Plumbing Piping
22 05 19	Meters and Gages for Plumbing Piping
22 05 23	General-Duty Valves for Plumbing Piping
22 05 29	Hangers and Supports for Plumbing Piping and Equipment
22 05 48	Vibration and Seismic Controls for Plumbing Piping and Equipment
22 05 53	Identification for Plumbing Piping and Equipment
22 07 16	Plumbing Equipment Insulation
22 07 19	Plumbing Piping Insulation
22 08 00	Commissioning of Plumbing Systems
22 11 16	Domestic Water Piping
22 11 19	Domestic Water Piping Specialties
22 11 23	Domestic Water Pumps
22 11 23.13	Domestic-Water Packaged Booster Pumps
22 13 16	Sanitary Waste and Vent Piping
22 13 29	Sanitary Waste Piping Specialties
22 13 29	Sanitary Sewerage Pumps
22 14 13	Facility Storm Drainage Piping
22 14 23	Storm Drainage Piping Specialties
22 14 29	Sump Pumps
22 35 00	Domestic Water Heat Exchangers
22 42 13.13	Commercial Water Closets
22 42 13.16	Commercial Urinals

SPECIFICATIONS (all dated November 21, 2012, unless otherwise noted)	
SECTION NO.	TITLE
22 42 16.13	Commercial Lavatories
22 42 16.16	Commercial Sinks
22 42 23	Commercial Showers, Receptors, and Basins
22 45 00	Emergency Plumbing Fixtures
22 47 16	Pressure Water Coolers
22 61 13	Compressed-Air Piping for Laboratory and Healthcare Facilities
22 61 19	Compressed-Air Equipment for Laboratory and Healthcare Facilities
22 62 13	Vacuum Piping for Laboratory and Healthcare Facilities
22 62 19	Vacuum Equipment for Laboratory and Healthcare Facilities
22 63 13	Gas Piping for Laboratory and Healthcare Facilities
22 66 00	Chemical-Waste Systems for Laboratory and Healthcare Facilities
22 67 00	Processed Water Systems for Laboratory and Healthcare Facilities
DIVISION 23	HEATING, VENTILATING AND AIR CONDITIONING
23 00 10	HVAC Trades Reference to General Conditions
23 05 13	Common Motor Requirements for HVAC Equipment
23 05 16	Expansion Fittings and Loops for HVAC Piping
23 05 17	Sleeves and Sleeve Seals for HVAC Piping
23 05 18	Escutcheons for HVAC Piping
23 05 19	Gages for HVAC Piping
23 05 23	General-Duty Valves for HVAC Piping
23 05 29	Hangers and Supports for HVAC Piping and Equipment
23 05 48	Vibration and Seismic Controls for HVAC Systems
23 05 53	Identification for HVAC Piping and Equipment
23 05 93	Testing, Adjusting, and Balancing for HVAC
23 07 13	Duct Insulation
23 07 16	HVAC Equipment Insulation
23 07 19	HVAC Piping Insulation
23 08 00	Commissioning of HVAC Systems
23 09 00	Instrumentation and Control for HVAC
23 09 10	Instrumentation and Control for Laboratory
23 21 13	Hydronic Piping
23 21 23	Hydronic Pumps
23 22 14	Steam and Condensate Humidification and Process Piping
23 25 00	HVAC Water Treatment
23 31 13	Metal Ducts
23 31 16	Non-metal Ducts
23 33 00	Air Duct Accessories
23 34 16	Centrifugal HVAC Fans
23 34 16.1	Laboratory Exhaust Fans
23 34 16.2	Perchloric Acid Fume Exhaust System
23 36 10	Laboratory Air Terminal Units
23 37 13	Diffusers, Registers, and Grilles
23 41 00	Particulate Air Filtration
23 57 00	Heat Exchangers for HVAC
23 57 10	HTHW-Fired Clean Steam Generator
23 64 16	Centrifugal Water Chillers
23 65 00	Cooling Towers
23 73 14	Custom Central-Station Air-Handling Units
23 82 16	Air Coils

SPECIFICATIONS (all dated November 21, 2012, unless otherwise noted)	
SECTION NO.	TITLE
23 82 19	Fan Coil Units
23 82 39.13	Cabinet Unit Heaters
23 83 16	Radiant-Heating Hydronic Piping
23 84 13	Humidifiers
DIVISION 26	ELECTRICAL
26 00 10	General Conditions for Electrical Trades
26 05 00	Common Work Results for Electrical
26 05 13	Medium-Voltage Cables
26 05 19	Low-Voltage Electrical Power Conductors and Cables
26 05 26	Grounding and Bonding for Electrical Systems
26 05 29	Hangers and Supports for Electrical Systems
26 05 33	Raceways and Boxes for Electrical Systems
26 05 43	Underground Ducts and Raceways for Electrical Systems
26 05 44	Sleeves and Sleeve Seals for Electrical Raceway and Cabling
26 05 48	Vibration and Seismic Controls for Electrical Systems
26 05 53	Identification for Electrical Systems
26 05 73	Protective Device Coordination Study
26 08 00	Commissioning of Electrical
26 09 23	Lighting Control Devices
26 09 43	Lighting Controls
26 12 00	Medium-Voltage Transformers
26 13 20	Medium-Voltage SF-6 Gas Loopswitch
26 22 00	Low-Voltage Transformers
26 24 13	Switchboards
26 24 16	Panelboards
26 27 26	Wiring Devices
26 28 13	Fuses
26 28 16	Enclosed Switches and Circuit Breakers
26 29 13	Enclosed Controllers
26 29 23	Variable-Frequency Motor Controllers
26 32 13	Engine Generators
26 36 00	Transfer Switches
26 41 13	Lightning Protection for Structures
26 51 00	Interior Lighting
26 56 00	Exterior Lighting
DIVISION 27	COMMUNICATIONS
27 00 10	Communications Trades Reference to General Conditions
27 05 28	Pathways for Communications Systems
27 05 36	Cable Trays for Communications Systems
27 05 44	Sleeves and Sleeve Seals for Communications Pathways and Cabling
27 11 00	Communications Equipment Room Fittings
27 13 00	Communications Backbone Cabling
27 15 00	Communications Horizontal Cabling
DIVISION 28	ELECTRONIC SAFETY AND SECURITY
28 00 10	Electronic Safety and Security Trades Reference to General Conditions
28 05 13	Conductors and Cables for Electronic Safety and Security
28 05 28	Pathways for Electronic Safety and Security

SPECIFICATIONS (all dated November 21, 2012, unless otherwise noted)

SECTION NO.	TITLE
28 05 44	Sleeves and Sleeve Seals for Electronic Safety and Security Pathways and Cabling
28 13 00	Access Control
28 16 00	Intrusion Detection
28 23 00	Video Surveillance
28 31 11	Digital, Addressable Fire-Alarm System
DIVISION 31	EARTHWORK
31 10 00	Site Clearing
31 20 00	Earthwork (Utilities)
31 20 00.03	Earth Moving for Site Improvements
31 23 00	Earthwork (Building Area)
31 25 00	Erosion and Sedimentation Control Measures
DIVISION 32	EXTERIOR IMPROVEMENTS
32 12 16	Asphalt Paving
32 13 13	Concrete Paving
32 13 73	Concrete Paving Joint Sealants
32 14 00	Unit Paving
32 15 00	Aggregate Surfacing
32 16 13	Curbs
32 17 13	Parking Bumpers
32 17 23	Pavement Markings
32 80 00	Irrigation System
32 80 01	Rainwater Harvesting Tank and Pumping System
32 91 15	Soil Preparation (Performance Specification)
32 92 00	Turf and Grasses
32 93 00	Plants
DIVISION 33	UTILITIES
33 10 00	Water Distribution
33 31 00	Sanitary Sewers
33 40 00	Storm Drainage
33 44 16	Utility Trench Drains
33 63 13	Underground Steam and Condensate Distribution Piping

ADDENDA

Report on Final Geotechnical Engineering Recommendations and Preliminary
Precharacterization Investigation by Haley & Aldrich, Inc. dated January 12, 2011

Report on Final Precharacterization Investigation dated October 23, 2012
