FACILITES MAINTENANCE AND ENGINEERING PROCEDURES MANUAL

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Concurrence Quality Manager	Date	

Approval and Date
Director, Facilities Maintenance and Engineering

GENERAL SPECIFICATIONS DATED 2-04-03

THE BELOW LISTED DOCUMENTS HAVE BEEN ISSUED AND ARE INCLUDED FOR INFORMATION

<u>NUMBER</u>	TITLE AND REVISION
GS-O1	GENERAL SPECIFICATION FOR DESIGN AND AS-BUILT DRAWING REQUIREMENTS FOR A&E FIRMSREVISION 1
GS-02	GENERAL SPECIFICATION FOR AS-BUILT DRAWING REQUIREMENTS FOR CONTRACTORSREVISION 0
GS-03	GENERAL SPECIFICATION –REQUIREMENTS FOR EQUIPMENT AND/OR MATERIAL SUPPLIERSREVISION 1
GS-04	GENERAL SPECIFICATION –ARCHITECT ENGINEER EXPECTATIONSREVISION 1
GS-05 See (1)	GENERAL SPECIFICATION-STANDARD ABBREVIATIONS AND DRAFTING SYMBOLSREVISION 0
GS-06 See (1)	GENERAL SPECIFICATION-STANDARD DRAFTING DETAILSREVISION 0
GS-07	QUALITY SYSTEM REQUIREMENTS FOR ARCHITECT ENGINEERSREVISION 0
GS-08	QUALITY SYSTEM REQUIREMENTS FOR CONSTRUCTION CONTRACTORS REVISION 0
GS-09	REQUEST FOR AN EXEMPTION TO THE NIH GUIDRELINES FROM AN A&E FIRMREVISION 0

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(1) See the Drafting Department for a hard copy of this document.

STANDARD SPECIFICATIONS

THE BELOW LISTED DOCUMENTS ARE LISTED FOR INFORMATION.

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DIVISION 01 – GENERAL REQUIREMENTS

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01015	Supplementary Conditions
01016	Special Conditions
01020	Allowances
01045	Cutting And Patching
01046	Chases, Openings And Inserts:
01049	Coordinated Drawings
01051	Field Engineering
01340	Shop Drawings, Product Data And Samples
01341	Submittal Register
01370	Schedule Of Values
01380	Construction Photographs
01400	Quality Control
01410	Inspection And Testing Services
01420	Soil Inspection And Testing
01421	Inspection Of Piped Site Utilities
01435	Testing Of Cast-In-Place Concrete:
01436	Inspection Of Cast-In-Place Concrete:
01443	Inspection And Testing Of Asphaltic Concrete
01450	Testing Of Structural Steel And Steel Stud Shear Connectors
01451	Inspection Of Structural Steel And Metal Decks:
01500	Construction Facilities:
01540	Security And Accidents
01550	Contractor, Subcontractor And Vendor Parking
01560	Environmental Protection
01580	Project Identification And Signs
01600	Materials And Equipment Storage
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01650	Starting Of Systems
01661	Testing And Balancing Of Mechanical Systems:
01700	Contract Closeout And Acceptance Procedures
01710	Cleaning
01710	Project Record Documents:
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01740	Warranties And Bonds:
01740	Commissioning of the HVAC System
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02070	Selective Demolition
02085	Removal and Disposal of Asbestos Material
02085A	Asbestos Control Program
02090	Lead Based Paint Abatement
02100	Site Preparation
02156	Underpinning
02200	Earthwork
02510	Asphaltic Concrete Paving
02511	Portland Cement Concrete Paving
02580	Pavement Marking
02720	Site Storm Sewer System
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03100	Concrete Formwork
03200	Concrete Reinforcement
03250	Concrete Accessories
03300	Cast-In-Place Concrete:
03345	Concrete Flatwork Finishing
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05120	Structural Steel
05310	Metal Roof Deck
05320	Metal Floor Deck
05325	Steel Stud Shear Connectors
05400	Cold-Formed Metal Framing
05500	Miscellaneous Metal:
05510	Metal Stairs
05700	Ornamental Metal

DIVISION 06 – WOOD AND PLASTIC

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DIVISION 07 – THERMAL AND MOISTURE PROTECTION

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07210	Building Insulation
07240	Exterior Insulation And Finish System
07270	Firestopping
07311	Asphalt Shingles
07532	Single-Ply EPDM Roofing, Fully-Adhered
07600	Flashing And Sheet Metal
07620	Metal Fascias And Coping
07800	Roof Accessories
07900	Joint Sealants

DIVISION 08 – DOORS AND WINDOWS

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08305	Access Doors
08330	Coiling Doors
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09300	Ceramic Tile
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09665	Resilient Sheet PVC Flooring
09690	Carpet Tile
09801	High-Performance Coatings
09802	Reinforced Resinous Wall Finish
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10260	Wall And Corner Guards
10430	Exterior Signs
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10500	Lockers
10520	Fire Extinguishers And Cabinets
10601	Wire Mesh Partitions
10800	Toilet Accessories

DIVISION 11 - EQUIPMENT

SPEC.	SPEC. SECTION TITLE
NO.	
11132	Projection Screens
11160	Loading Dock Equipment
11600	Laboratory Equipment
11610	Chemical Fume Hoods
11615	Radioisotope Fume Hoods
11620	Biological Safety Cabinets, Class II, Type A/B3
11625	Biological Safety Cabinets, Class II, Type B2

DIVISION 12 - FURNISHINGS

SPEC.	SPEC. SECTION TITLE
NO.	
12352	Laboratory Casework
12512	Horizontal Louver Blinds
12670	Entrance Mats And Frames

DIVISION 13 – SPECIAL CONSTRUCTION

SPEC.	SPEC. SECTION TITLE
NO.	
13027	Integrated Unidirectional Flow Ceilings And Laminar Flow Walls
13100	Lightning Protection
13800	Direct Digital Control(DDC) System
13810	Instrumentation And Control Equipment
13820	Laboratory Fume Hood Control System
13845	Sequence Of Operations
13850	Scientific Alarm System
13852	Room Pressurization Monitoring and Alarm System
13855	Oxygen Monitoring Alarm System
13860	Fireman's HVAC Shutdown System
13865	Door Interlock System - Airlocks

DIVISION 14 – CONVEYING SYSTEMS

SPEC. NO.	SPEC. SECTION TITLE
14310	Electric Hoist, Monorail, And Motorized Trolley

DIVISION 15 - MECHANICAL

SPEC. NO.		SION 15 - MECHANICAL
15000 Mechanical Special Requirements: 15005 Preparation For Testing And Balancing Of HVAC Systems: 15011 Identification Of Mechanical Equipment And Piping Systems: 15015 Mechanical Demolition, Relocation And Alteration: 15050 Pipe, Valves And Fittings For Mechanical Systems: 15080 Pipe Specialties: 15090 Pipe Guides And Anchors 15091 Pipe Sleeves 15092 Pipe Sleeve Seals: 15093 Counterflashing 15094 Pipe Hangers And Supports: 15141 Centrifugal Pumps: 15140 Expansion Compensation 15170 Thermometers, Gauges And Flow Meters: 15175 Expansion Tanks: 15190 Motors And Starters: 15200 Vibration Control For Mechanical Equipment: 15201 Concrete Equipment Foundations, Pads And Curbs 15202 Pipe Insulation: 15205 Pipe Insulation: 15250 Pipe Insulation: 15250 Pipe Insulation: 15261 Mechanical Equipment Insulation 15313 Clean Steam System 15323 Oil Free Compressed Air System 15324 Vacuum System 15325 Vacuum System 15326 Aboratory Gas System 15327 Vacuum System 15328 Water For Injection System 15400 Plumbing & Fixtures 15401 Laboratory And Domestic Water System 15402 Domestic Water Pressure Booster System 15403 Sanitary Drainage System 15404 Laboratory And Domestic Water System 15405 Sanitary Drainage System 15406 Storm Drainage System 15407 Laboratory And Domestic Water System 15408 Process Waste System 15409 Process Waste System 15401 Laboratory And Domestic Water Fresture Booster System 15402 Drains 15404 Laboratory And Domestic Water Fresture Booster System 15406 Storm Drainage System 15407 Laboratory And Domestic Water Fresture Booster System 15408 Process Waste System 15409 Process Waste System 15409 Process Waste System 15409 Process Waste System 15409 Process Waste System 15400 Process Waste System 15401 Process Waste System 15402 Process Waste System 15403 Process Waste System 15404 Process Waste Syste	SPEC.	SPEC. SECTION TITLE
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15424 Laboratory And Domestic Water Heaters: 15426 Plumbing Specialties: 15450 Plumbing Fixtures And Trim 15500 Wet Pipe And Dry Pipe Water Sprinkler Fire Extinguishing Systems 15608 Propane Gas System 15671 Reciprocating Water Chillers 15700 Water Treatment	15421	Drains
15426 Plumbing Specialties: 15450 Plumbing Fixtures And Trim 15500 Wet Pipe And Dry Pipe Water Sprinkler Fire Extinguishing Systems 15608 Propane Gas System 15671 Reciprocating Water Chillers 15700 Water Treatment	15423	Cleanouts And Access Covers
15450 Plumbing Fixtures And Trim 15500 Wet Pipe And Dry Pipe Water Sprinkler Fire Extinguishing Systems 15608 Propane Gas System 15671 Reciprocating Water Chillers 15700 Water Treatment	15424	
15500 Wet Pipe And Dry Pipe Water Sprinkler Fire Extinguishing Systems 15608 Propane Gas System 15671 Reciprocating Water Chillers 15700 Water Treatment	15426	U T
15608 Propane Gas System 15671 Reciprocating Water Chillers 15700 Water Treatment	15450	
15671 Reciprocating Water Chillers 15700 Water Treatment	15500	
15700 Water Treatment	15608	Propane Gas System
	15671	Reciprocating Water Chillers
15701 Hot Water Heating Piping System	15700	
	15701	Hot Water Heating Piping System

15702	Chilled Water Piping System:
15704	Condensate Drainage Piping System
15705	Glycol/Water Solution And Makeup Piping System:
15710	Steam And Condensate Piping System:
15715	Steam Specialties:
15720	Duplex Steam Condensate Pump And Receiver Sets
15732	Packaged Shell And Tube Heat Transfer Equipment
15740	Hydronic Terminal Units
15748	Baseboard Radiation
15750	Hydronic Heating And Cooling And Steam Heating Coils
15781	Humidifiers:
15790	Pre-Engineered Custom Central Station Air Handling Units
15820	Fans:
15840	Metal Ductwork:
15860	Duct Accessories
15861	Dampers:
15870	Air Terminals
15880	Air Filters:
15890	Sound Attenuators
15895	Terminal Boxes

DIVISION 16 - ELECTRICAL

SPEC.	SPEC. SECTION TITLE
NO.	
16000	Electrical General Requirements
16015	Electrical Demolition, Relocation And Alteration
16052	Sleeves, Inserts And Openings
16055	Concrete Housekeeping Pads And Curbs
16110	Wireways
16111	Conduit
16113	Multi-Outlet Raceway System
16114	Cable Trays
16120	Wires And Cables
16131	Junction And Pull Boxes
16134	Outlet Boxes
16140	Wiring Devices, Outlets And Plates
16155	Individual Motor Starters
16156	Installation Of Air Compressor And Chiller Starters
16158	Motor Control Centers
16159	Individual Variable Frequency Drives
16160	Panelboards
16180	Safety Switches And Fuses
16183	Contactors
16264	Static Uninterruptible Power Supply
16402	Underground Electric Service
16408	Secondary Switchboard
16450	Grounding
16460	Dry-Type Transformers
16463	Pad Mounted Transformers
16501	Lamps And Ballasts
16503	Site Lighting
16510	Building Lighting
16511	Lighting Control Devices
16612	Emergency Diesel Generator

16614 Automatic Transfer Switches	
16700 Communication Systems	
16725 Addressable Fire Alarm System	
16726 Fire Alarm Code Transmitter	
16740 Special Raceway Systems	
16859 Electric Heating Cables – Pipe Tracing	
16930 Exterior Lighting Control System	
16995 Testing Electrical Systems	