



US Army Corps
of Engineers
Savannah District

Robins AFB Georgia

Solicitation Number

DACA21-03-R-0025

Corrosion Control De-paint (FY03, UHHZ003014) and
Paint (FY04, UHHZ003011) Facilities

Volume II of III - Appendices A through H

May 2003

PHASE TWO OF TWO PHASE DESIGN/BUILD SUBMITTAL PROCEDURE

THIS SOLICITATION IS UNRESTRICTED PURSUANT TO THE
"BUSINESS OPPORTUNITY DEVELOPMENT REFORM ACT OF 1988"
(PUBLIC LAW 100-656)

U.S. ARMY ENGINEER DISTRICT, SAVANNAH
CORPS OF ENGINEERS
100 WEST OGLETHORPE AVENUE
SAVANNAH, GEORGIA 31401-3640

APPENDIX A

REFERENCES

APPENDIX A

REFERENCES

GOVERNMENT PUBLICATIONS

AIR FORCE INSTRUCTIONS (AFI)

Internet: <http://www.e-publishing.af.mil/>

32-1065 - Grounding Systems

32-1068 - Heating Systems and Unfired Pressure Vessels

AIR FORCE MANUALS (AFM)

Internet: <http://www.hnd.usace.army.mil/techinfo/engpubs.htm>

85-3 - Paints and Protective Coatings

88-5, Chapt. 4 - Drainage for Areas Other Than Airfields

88-7, Chapt. 5 - General Provisions and Geometric Design for Roads,
Streets, Walks, and Open Storage Areas

AIR FORCE OCCUPATIONAL SAFETY AND HEALTH (AFOSH)

Internet: <http://www.e-publishing.af.mil/>

91-22 - Walking Surfaces, Guarding Floor and Wall Openings and Holes,
Fixed Industrial Stairs, and Portable and Fixed Ladders, 01
Oct 1997

91-100 - Aircraft Flight Line - Ground Operations and Activities, 01
May 1998

91-501 - Air Force Consolidated Occupational Safety Standards, 16 Sep
2002

ARMY/COE MILITARY HANDBOOKS (MIL-HDBK)

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MIL-HDBK-1005/7A - Water Supply Systems, 1999

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and Construction, 1997

MIL-HDBK-1012/3 - Telecommunications Premises Distributions, Planning,
Design and Estimating, 1996

MIL-HDBK-1190 - Facility Planning and Design Guide, 1987

ARMY REG 190-11 - Physical Security of Arms, Ammunition and Explosives

ARMY TECHNICAL INSTRUCTIONS (TI)

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- 800-01 - Design Criteria
- 804-01 - Area Planning, Site Planning and Design
- 804-11 - POV Site Circulation and Parking
- 809-01 - Load Assumptions for Buildings
- 809-02 - Structural Design Criteria for Buildings
- 809-04 - Seismic Design for Buildings
- 809-07 - Design of Cold-Formed Load Bearing Steel Systems
- 809-29 - Structural Considerations For Metal Roofing
- 809-30 - Metal Building Systems
- 810-10 - Mechanical Design Heating, Ventilating, and Air Conditioning
- 810-11 - Heating, Ventilating and Air Conditioning (HVAC) Control System
- 814-01 - Water Supply
- 814-03 - Water Distribution
- 814-10 - Wastewater Collection
- 822-20 - Surface Drainage Quad-Service Antiterrorism/Force Protection Construction Standard

AIR FORCE TECHNICAL ORDER (TO)

Internet: <http://www.ide.wpafb.af.mil/toprac/to-syste.htm>

- 1-1-8 - (17 Jan 03) Application and Removal of Organic Coatings, Aerospace and Non-Aerospace Equipment

ARMY/AIR FORCE TECHNICAL MANUAL (TM)

Internet: <http://www.hnd.usace.army.mil/techinfo/engpubs.htm>

- 5-803-5 - Installation Design
- 5-803-13 - Landscape Design and Planting Criteria
- 5-803-14 - Site Planning and Design
- 5-805-4 - Noise and Vibration Control
- 5-809-3 - Masonry Structural Design for Buildings
- 5-820-4 - Drainage for Areas Other than Airfields

5-822-2 - General Provisions and Geometric Design for Roads, Streets, Walks and Open Storage Areas

5-822-5 - Pavement Design for Roads, Streets, Walks and Open Storage Areas

5-822-7 - Standard Practice for Concrete Pavements

5-822-8 - Bituminous Pavements - Standard Practice

5-809-03 - Masonry Structural Design For Buildings

5-809-12 - Concrete Floor Slabs on Grade Subjected to Heavy Loads

5-813-4 - Water Supply, Water Storage

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5-822-13 - Pavement Design for Roads, Streets, and Open Storage Areas, Elastic Layered Method

5-811-7 - Electrical Design, Cathodic Protection

CODE OF FEDERAL REGULATIONS
Government Printing Office
Washington, DC 20402

10 CFR 430 - Energy Conservation Program for Consumer Products

10 CFR 435 - Energy Performance Standards

10 CFR 436A - Federal Energy Management Planning Programs

40 CFR 63 - National Emission Standards For Hazardous Air Pollutants For Source Categories

40 CFR 280 - Owners and Operators of Underground Storage Tanks

49 CFR 192 - Transportation of Natural and other Gas by Pipeline: Minimum Federal Safety Standards

49 CFR 195 - Transportation of Hazardous Liquids by Pipeline

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EM 1110-2-1906 - Laboratory Soils Testing

EM 1110-2-1909 - Calibration of Laboratory Soils Testing Equipment

EM 1110-2-3102 - General Principals of Pumping Station Design and Layout

ER 1110-3-110 - Information Systems Design in Support of Military Construction

ETL 02-15 - Fire Protection Engineering Criteria - New Aircraft Facilities

ETL 83-1 - Design of Control Systems for Heating, Ventilating and Air Conditioning Systems (HVAC)

ETL 91-6 - Cathodic Protection

ETL 94-2 - Utility Meters in New and Renovated Facilities

ETL 94-4 - Energy Usage Criteria for Facilities in the Military Construction Program

ETL 1110-3-403 - Electrical Power Systems for Nonlinear Loads

ETL 1110-3-412 - Transformer Application Guidance

ETL 1110-3-466 - Selection and Design of Oil/Water Separators at Army Facilities

ETL 1110-3-474 - Cathodic Protection

ETL 1110-3-491 - Sustainable Design for Military Facilities

ETL 1110-9-10 - Cathodic Protection System Using Ceramic Anodes

FEDERAL REGISTER

Executive Order 13123 - (June 3, 1999) Greening the Government Through Efficient Energy Management

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)

Handbook 135 - (1995) Life-Cycle Costing Manual for the Federal Energy Management Program

ROBINS AIR FORCE BASE

Base Facility Standard (BFS)

SAVANNAH DISTRICT DESIGN MANUAL

Design Manual for Military Construction, June 2000

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1-200-01 - (31 JULY 2002) DESIGN: GENERAL BUILDING REQUIREMENTS

3-260-01 - (01 NOVEMBER 2002) Airfield and Heliport Planning and Design

3-260-02 - (30 JUNE 2001) Pavement Design for Airfields

4-010-01 - (31 JULY 2002) DoD Minimum Antiterrorism Standards for Buildings.

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402

U.S. Government Printing Office (GPO) Style Manual

NON-GOVERNMENT PUBLICATIONS

ACI INTERNATIONAL (ACI)
P.O. Box 9094 Farmington Hills, MI 48333-9094
Ph: 248-848-3800
Fax: 248-848-3801
Internet: <http://www.aci-int.org>

318-02 - Building Code Requirements for Reinforced Concrete

302 - Guide for Concrete Floors and Slab Construction

530 - Building Code for Masonry

530.1 - Masonry Specifications

AIR CONDITIONING AND REFRIGERATION INSTITUTE (ARI)
4301 North Fairfax Drive
Arlington, VA 22203

310/380 - (1993) Packaged Terminal Air-Conditioners and Heat Pumps

410 - (2001; R 2002) Forced-Circulation Air-Cooling and Air-Heating Coils

430 - (1999) Central-Station Air-Handling Units

440 - (1998) Room Fan-Coil and Unit Ventilator

445 - (1987; R 1993) Room Air-Induction Units

700 - (1999) Specification for Fluorocarbon Refrigerants

880 - (1998; R 2002) Air Terminals

AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA)
30 W. University Drive
Arlington Heights, IL 60004-1893

201 - (1990) Fans and Systems

210 - (1985) Laboratory Methods of Testing Fans for Rating

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)
1827 Walden Office Square, Suite 104
Schaumburg, IL 60173-4268

101 - Voluntary Specifications for Aluminum, Vinyl and Wood Windows and Glass Doors

605 - Voluntary Specification Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels

607.1 - Voluntary Guide Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum

1503 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors, and Glazed Wall Sections

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)

AMERICAN BEARING MANUFACTURERS ASSOCIATION (AFBMA)
1200 19th Street, NW
Washington, DC 20036-4303

Std 9 - (1990) Load Ratings and Fatigue Life for Ball Bearings

Std 11 - (1990) Load Ratings and Fatigue Life for Roller Bearings

AMERICAN BOILER MANUFACTURERS ASSOCIATION (ABMA)
950 N. Glebe Rd, Suite 160
Arlington, VA 22203-1824

ISEI - Industry Standards and Engineering Information

AMERICAN GAS ASSOCIATION (AGA)

AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)

Timber Construction Manual

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

American Institute of Steel Construction (AISC), Manual of Steel Construction

AMERICAN IRON AND STEEL INSTITUTE (AISI)

SG02-1 - North American Specification for the Design of Cold-Formed Steel Structural Members, 2001

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

11 West 42 Street
New York, NY 10036

- A10.14 - (1991) Requirements for Safety Belts, Harnesses, Lanyards, Lifelines, and Drop Lines for Construction and Industrial Use
- ANSI/SIA A92.5 - (1992) Boom Supported Elevating Work Platforms
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- B30.11 - (1998, Add. A) Monorail and Underhung Cranes
- B30.16 - (1998, Add. A2001) Overhead Hoists (Underhung)
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- Z124.5 - (1997) Plastic Toilet (Water Closets) Seats
- Z124.6 - (1997) Plastic Sinks
- Z21.45 - (1995) Flexible Connectors of Other Than All-Metal Construction for Gas Appliances
- 70 - (2002) National Electrical Code
- 569-A - (1998) Commercial Building Standard for Telecommunications Pathways and Spaces
- ASSE/ANSI 1037 - Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures

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100 Bar Harbor Drive
West Conshohocken, PA 19428-2959

- A36/A36M - (2000) Carbon Structural Steel
- A53 - (1999) Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless

- A106 - (1999) Seamless Carbon Steel Pipe for High-Temperature Service
- A134 - (1996) Pipe, Steel, Electric-Fusion (Arc)-Welded (Sizes NPS 16 and Over)
- A135 - (1997c) Electric-Resistance-Welded Steel Pipe
- A139 - (1996el) Electric-Fusion (Arc)-Welded Steel Pipe (NPS 4 and over)
- A185 - (2001) Steel Welded Wire Reinforcement, Plain, For Concrete
- A325 - (2002) Structural Bolts, Steel, Heat Treated, 120/105 KSI Minimum Tensile Strength
- A463 - (2002) Steel Sheet, Aluminum-Coated, By the Hot-Dip Process
- A500 - (2001) Cold-Formed Welded And Seamless Carbon Steel Structural Tubing In Rounds And Shapes
- A615 - (2001) Deformed and Plain Billet-Steel Bars for Concrete Reinforcement
- A653 - (2002) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) By the Hot-Dip Process
- A706 - (2001) Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement
- A792 - (2002) Steel Sheet, 55% Aluminum-Zinc Alloy-Coated By the Hot-Dip Process
- A992 - (1998) Steel For Structural Shapes For Use In Building Framing
- B88 - (1999) Seamless Copper Water Tube
- B644 - (1995) Copper Alloy Addition Agents English
- C33 - (2002) Concrete Aggregates
- C90 - (2002) Loadbearing Concrete Masonry Units
- C136 - (2001) Sieve Analysis of Fine and Coarse Aggregates
- C150 - (2002) Portland Cement
- C260 - (2001) Air-Entraining Admixtures For Concrete
- C270 - (2002) Mortar For Unit Masonry
- C476 - (2002) Grout For Masonry
- C494 - (1999A) Chemical Admixtures For Concrete

- C518 - (1998) Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- C591 - (2001) Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation
- C618 - (2003) Coal Fly Ash And Raw Or Calcined Natural Pozzolan For Use As A Mineral Admixture In Concrete
- C989 - (1999) Ground Granulated Blast-Furnace Slag For Use In Concrete And Mortars
- C1017 - (1998) Chemical Admixtures For Use In Producing Flowing Concrete
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- D422 - (1963; R 2002) Particle-Size Analysis of Soils
- D1140 - (2000) Test Methods For Amount Of Material In Soils Finer Than The No. 200 (75- μ m) Sieve
- D1248 - (2002) Polyethylene Plastics Molding and Extrusion Materials
- D1556 - (2000) Density of Soil in Place by the Sand-Cone Method
- D1557 - (2002) Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))
- D1585 - (1996) Test Methods For Fatty Acids Content Of Naval Stores, Including Rosin, Tall Oil, And Related Products
- D1587 - (2000) Practice For Thin-Walled Tube Sampling Of Soils For Geotechnical Purposes
- D1784 - (2002) Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds
- D2216 - (1998) Laboratory Determination of Water (Moisture) Content of Soil, and Rock
- D2241 - (2000) Poly(Vinyl Chloride) (PVC) Pressure-Rated-Pipe (SDR Series)
- D2310 - (1997) Machine-Made "Fiberglass" (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe
- D2448 - (1985; R2002) Test Method For Water-Soluble Salts In Pigments By Measuring The Specific Resistance of the Leachate of the Pigment
- D2487 - (2000) Classification of Soils for Engineering Purposes
- D2513 - (2001; Rev. A E1) Thermoplastic Gas Pressure Pipe, Tubing, and Fittings

- D2661 - (2002) Acrylonitrile-Butadiene-Styrene (ABS) Plastic Drain, Waste, and Vent Pipe and Fittings
- D2665 - (2002, Rev. A) Poly(Vinyl Chloride) (PVC) Plastic Drains, Waste, and Vent Pipe and Fittings
- D2666 - (1996, Rev. A) Polybutylene (PB) Plastic Tubing
- D2683 - (1998) Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing
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- E84 - (2001) Surface Burning Characteristics of Building Materials
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AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
(ASHRAE)

1791 Tully Circle. NE
Atlanta, GA 30329-2305

- Standard 34 - (2001, Errata 2002) Designation and Safety Classification of Refrigerants
- Standard 62 - (2001, Errata 2002) Ventilation for Acceptable Indoor Air Quality
- Standard 15 - (2001, Errata 2002) Safety Code for Mechanical Refrigeration
- 90.1 - (2001) Energy Standard for New Buildings Except Low-Rise Residential Buildings

(2001) Handbook, Fundamentals

AMERICAN SOCIETY OF MECHANICAL ENGINEERS INTERNATIONAL (ASME)

Three Park Place
New York, NY 10016-5990

B31.8 - (1995) Gas Transmission and Distribution Piping Systems

B16.11 - (1996) Forged Fittings, Socket-Welding and Threaded

B31.1 - (1998; Addenda 1999 and 2000) Power Piping

BPVC SEC VII - (1995; Addenda 1995, 1996, and 1997) Boiler and Pressure
Vessel Code: Section VII Recommended Guidelines for
the Care of Power Boilers

(1996) Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24

AMERICANS WITH DISABILITIES ACT (ADA)

US Architectural and Transportation Barriers Compliance Board
1111 18th Street, N.W., Suite 501
Washington, DC 20036-3894
(202) 653-7834 v/TDD or (202) 653-7863 FAX

Accessibility Guidelines for Buildings and Facilities

AMERICAN WATER WORKS ASSOCIATION (AWWA)

C203 - (2002) Coal-Tar Protective Coatings and Linings for Steel Water
Pipelines - Enamel and Tape - Hot Applied

C500 - (2002) Metal-Seated Gate Valves for Water Supply Service (DOD
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C502 - (1994, Addendum A 95) Dry-Barrel Fire Hydrants

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AMERICAN WELDING SOCIETY (AWS)

A5.1 - (1991, R1999) Carbon Steel Electrodes for Shielded Metal Arc
Welding

A5.5 - (1996) Low Alloy Steel Electrodes for Shielding Metal Arc
Welding

D1.1 - (2002) Structural Welding Code

D1.3 - (1998) Structural Welding Code-Sheet Steel

ARCHITECTURAL WOODWORK INSTITUTE (AWI)

1952 Isaac Newton Square W.
Reston, VA 20190

Quality Standards (1999) 7th Edition, Version 1.2

ASSOCIATED AIR BALANCE COUNCIL (AABC)
1518 K Street NW, Suite 708
Washington, DC 20005

MN-1 - (1989) National Standards for Testing and Balancing Heating,
Ventilating, and Air Conditioning Systems

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA)

- A156.1 - (1997) Butts and Hinges
- A156.10 - (1991) Power Operated Pedestrian Doors
- A156.11 - (1991) Cabinet Locks
- A156.12 - (1992) Interconnected Locks/Latches
- A156.13 - (1994) Mortise Locks & Latches
- A156.14 - (1997) Sliding and Folding Door Hardware
- A156.15 - (1995) Life Safety Closer/Holder Release Devices
- A156.16 - (1997) Auxiliary Hardware
- A156.17 - (1993) Self Closing Hinges & Pivots
- A156.18 - (1993) Materials and Finishes
- A156.19 - (1997) Power Assist and Low Energy Power Operated Doors
- A156.2 - (1996) Bored and Preassembled Locks and Latches
- A156.20 - (1996) Strap and Tee Hinges and Hasps
- A156.21 - (1996) Thresholds
- A156.22 - (1996) Door Gasketing Systems
- A156.23 - (1992) Electromagnetic Locks
- A156.24 - (1992) Delayed Egress Locks
- A156.3 - (1994) Exit Devices
- A156.4 - (1992) Door Controls - Closers
- A156.5 - (1992) Auxiliary Locks & Associated Products
- A156.6 - (1994) Architectural Door Trim
- A156.7 - (1997) Template Hinge Dimensions
- A156.8 - (1994) Door Controls - Overhead Stops and Holders

A156.9 - (1994) Cabinet Hardware

Closer Directory (Effective thru Jul (1999) Directory of Certified Door Closers

Exit Devices Directory (Effective thru Aug 1998) Directory of Certified Exit Devices

L & R Directory (Effective thru Jun 1999) Directory of Certified Locks & Latches

Directory (Effective thru Sep 1999) Directory of Electromagnetic & Delayed Egress Locks

COUNCIL OF AMERICAN BUILDING OFFICIALS (CABO)
5203 Leesburg Pike, Suite 708
Falls Church, VA 22041

A117.1 - (1992; Errata Jun 1993) Accessible and Usable Buildings and Facilities

CRANE MANUFACTURERS ASSOCIATION OF AMERICA (CMAA)

No. 70 - Specification for Electric Overhead Traveling Cranes

ELECTRONIC INDUSTRIES ASSOCIATION (EIA)
2500 Wilson Blvd
Arlington, VA 22201-3834

EIA/TIA 568 - (2001) Commercial Building Telecommunications Cabling Standards

EIA/TIA 569 - (2001, amendment 7) Commercial Building Standard for Telecommunications Pathways and Spaces

EIA/TIA 606 - (2002) Administration Standard for the Telecommunications Infrastructure of Commercial Buildings

J-STD-607 - (2002) Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications

ENVIRONMENTAL PROTECTION AGENCY (EPA)

340/1-90-018 - (1990) Asbestos/NESHAP Regulated Asbestos Containing Materials Guidance

340/1-90-019 - (1990) Asbestos/NESHAP Adequately Wet Guidance

560/5-85-024 - (1985) Guidance for Controlling Asbestos Containing Materials in Buildings

FACTORY MUTUAL SYSTEM (FM) STANDARDS

FEDERAL STANDARD SPECIFICATIONS (FS)

FED-STD 595 (Rev B) - Colors

FS WW-P-541 - Plumbing Fixtures

FS WW-P-541/5 - Plumbing Fixtures (Sinks, Kitchens, Service, Laundry
Trays - Detail Specification)

ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA)

120 Wall Street, 17th Floor
New York, NY 10005-4001

RP-8 - (1983; R 1993) Roadway Lighting

LHBK - (1993) Lighting Handbook, Reference and Application

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

445 Hoes Lane, P.O. Box 1331
Piscataway, NJ 08855-1331

144 - Recommended Practice for Grounding of Industrial and Commercial
Power Systems

519 - (1992) Recommended Practices and Requirements for Harmonic
Control in Electrical Power Systems

1100 - (1999) Recommended Practice for Powering and Grounding
Electronic Equipment (Emerald Book)

Standard for Use of the International System of Units (SI): the Modern
Metric System

INTERNATIONAL APPROVAL SERVICES (IAS)

8501 E. Pleasant Valley Rd
Cleveland, OH 44131

Directory - (1999) IAS Directory of AGA & CGA Certified Appliances and
Accessories

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO)

20001 Walnut Drive South
Walnut, CA 91789-2825

Z124.1 - (1995) Plastic Bathtub Units

Z124.3 - (1995) Plastic Lavatories

Z124.5 - (1997) Plastic Toilet (Water Closets) Seats

Z124.9 - (1994) Plastic Urinal Fixtures

INTERNATIONAL CODE COUNCIL, INC (ICC)

5203 Leesburg Pike, Suite 708

Falls Church, VA 22041-3401

(2000) International Building Code

(2000) International Mechanical Code

(2000) International Plumbing Code

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

<http://www.iso.ch/>

9000 - Quality Management Systems - Fundamentals and Vocabulary, 2000
LIGHTING HANDBOOK REFERENCE AND APPLICATION, 9TH EDITION

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY
(MSS)

SP-59 - Steel Butt Welding Short Radius Elbows and Returns

SP-69 - Pipe Hangers and Supports - Selection and Application

NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM)

01 - (1988) Metal Finishes Manual for Architectural and Metal Products

NATIONAL ASSOCIATION OF CORROSION ENGINEERS INTERNATIONAL (NACE)
1440 South Creek Drive
Houston, TX 77084-4906

RP0169 - (1996) Control of External Corrosion on Underground or
Submerged Metallic Piping Systems

RP0185 - (1996) Extruded, Polyolefin Resin Coating Systems with Soft
Adhesives for Underground or Submerged Pipe

NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)

Specifications for the Design and Construction of Load Bearing Concrete
Masonry

Building Code Requirements for Concrete Masonry (ACI-ASCE 530 Building
Code for Masonry; ACI-ASCE 530.1 Masonry
Specifications)

NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

1300 N 17th Street, Suite 1847
Rosslyn, VA 22209

C12.1 - (1995) Code for Electricity Metering

LD 3 - (2000) High Pressure Decorative Laminates

MG 1 - (1998, Rev. 2002) Motors and Generators

MG 10 - (2001) Energy Management Guide For Selection And Use Of Fixed
Frequency Medium Ac Squirrel-Cage Polyphase Induction
Motors

MG 11 - (1977, Rev. 2001) Energy Management Guide For Selection and Use
of Single-Phase Motors

PB 1 - (1995) Panelboards

NATIONAL ELECTRICAL SAFETY CODE (NEC)

NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB)
8575 Grovemont Circle
Gaithersburg, MD 20877-4121

Procedural Stds - (1991) Procedural Standards for Testing Adjusting
Balancing of Environmental Systems

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

One Batterymarch Park
Quincy, MA 02269-9101

1 - (2003) Uniform Fire Code

10 - (2002, Errata 1 2002) Portable Fire Extinguishers

13 - (2002, Errata 1 2003) Installation of Sprinkler Systems

20 - (1999, Errata 3 2000) Installation of Stationary Fire Pumps for
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30 - (2000, Errata 1 2000) Flammable and Combustible Liquids Code

31 - (2001) Installation of Oil Burning Equipment

33 - (2000, Errata 1 2001) Spray Application Using Flammable Or
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54 - (2002) National Fuel Gas Code

58 - (2001, Errata 1 2001) LP-Gas Code

70 - (2002) National Electrical Code (NEC)

72 - (2002, Errata 1 2003) National Fire Alarm Code

80 - (1999) Standard for Fire Doors and Fire Windows

90A - (2002, Errata 1 2003) Installation of Air-Conditioning and
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- 90B - (2002) Installation of Warm Air Heating and Air-Conditioning Systems
- 101 - (2003) Life Safety Code
- 255 - (2000) Method of Test of Surface Burning Characteristics of Building Materials
- 1581 - (2000) Standard on Fire Department Infection Control Program
- 1710 - (2001) Organization and Development of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments

NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA)

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

- 10 CFR 435B - Energy Conservation Performance Standards
- 29 CFR - Occupational Safety and Health Standards Part 1910
- 29 CFR - Occupational Safety and Health Standards Part 1926
- 40 CFR 61 - National Emission Standards for Hazardous Air Pollutants
- 40 CFR 260 - Hazardous Waste Management System General
- 40 CFR 261 - Identification and Listing of Hazardous Waste

PLUMBING AND DRAINAGE INSTITUTE (PDI)

45 Bristol Drive, Suite 101
South Easton, MA 02375

- G 101 - (1996) Testing and Rating Procedure for Grease Interceptors with Appendix of Sizing and Installation Data
- WH 201 - (1992) Water Hammer Arresters

SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA)

PO Box 221230
Chantilly, VA 20153-1230

- HVAC Duct Const Stds (DCS) - (1995; Addenda Nov 1997) HVAC Duct Construction Standards - Metal and Flexible
- Architectural Manual - (1993; Errata; Addenda Oct 1997) Architectural Sheet Metal Manual

STEEL DECK INSTITUTE (SDI)

- Steel Deck Institute Diaphragm Design Manual (Latest Edition)

STEEL DOOR INSTITUTE (SDI)
30200 Detroit Road
Cleveland, OH 44145-1967

100 - Standard Steel Doors and Frames

STEEL JOIST INSTITUTE

Standard Specification for Load Table for Open Web Joists (latest
edition)

UNDERWRITERS LABORATORIES STANDARDS (UL)

181 - Factory-Made Air Ducts and Air Connectors

555 - Fire Dampers

555S - Smoke Dampers

UNIFORM FEDERAL ACCESSIBILITY STANDARD (UFAS)

WATER POLLUTION CONTROL FEDERATION MANUAL OF PRACTICE

FD-4 - Design of Wastewater and Stormwater Pumping Stations

FD-5 - Gravity Sanitary Sewer Design and Construction

***** End of Appendix A *****

APPENDIX B

NEW SITE DRAWINGS

Appendix B – New Site Drawings

Refer to separately bound drawings for New Site Drawings.

APPENDIX C

FUNCTIONAL ROOM REQUIREMENTS

(On the following pages: No special requirements are designated by NSR. The room data sheets are for guidance in preparing the project. The Design-Build Contractor will be responsible for determining the actual amounts of space and room requirements for each area based on criteria. Design-Build Contractor has discretion to add additional spaces if required, i.e., DMSS control room, communications closet, etc.)

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Mechanical Room

Size (s.f.): *(4550) Occupancy: _____ Function: Chillers for Process Cooling

Size (s.m.): *(423) _____ *(Process Cooling Option)

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal Steel - Insulated, steel overhead coiling

Adjacencies: Electrical

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: Air Conditioning: Ventilation:

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: Equipment Air: Floor Drains:

Natural Gas: Other: Domestic water and natural gas entrance

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: LAN: PA:

Lighting: Fluorescent or Metal halide; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Communication Room

Size (s.f.): 110 Occupancy: _____ Function: Storage

Size (s.m.): 10

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/ gypsum board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow metal steel

Adjacencies: Exterior

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 26.7 C (80 F), Heating 18 C (65 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Fluorescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Recycle Material Storage

Size (s.f.): 1615 Occupancy: _____ Function: Storage

Size (s.m.): 150

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/ gypsum board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow metal steel, steel overhead coiling

Adjacencies: Exterior

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Metal halide; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Forklift and truck dock access

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: PPE Cleaning

Size (s.f.): 215 Occupancy: 10 Function: PPE Cleaning

Size (s.m.): 20

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU

Ceiling: Suspended gypsum board

Clear Ceiling Height: 3048mm (10'-0")

Windows: NSR

Doors: Hollow Metal Steel - Insulated

Adjacencies: NSR

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: Laundry sinks (2), clothes washer utilities

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: Recirculation hot water system

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Flourescent; 50fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: Washer-Dryer

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Initial Accumulation Point
 Size (s.f.): 110 Occupancy: _____ Function: Small item accumulation
 Size (s.m.): 10

ARCHITECTURAL

Finishes:
 Floor: Sealed concrete
 Walls: Painted CMU
 Ceiling: NSR
 Clear Ceiling Height: 3m (10' 0")
 Windows: NSR
 Doors: NSR
 Adjacencies: Hangar Area
 Features: _____
 Furnishings: _____

STRUCTURAL

Floor: NSR
 Walls: NSR
 Ceiling: NSR
 Features: NSR

HVAC

Heating: Air Conditioning: Ventilation:
 Temperature: NSR
 Special Requirements: _____

PLUMBING

Fixtures: _____
 Shop Air: Equipment Air: Floor Drains:
 Natural Gas: Other: _____

FIRE PROTECTION

System Type: Fire Extinguishers
 Hazard Classification: To be determined
 Detection: _____

ELECTRICAL

Telephone: LAN: PA:
 Lighting: NSR
 Special Requirements: _____
 Security: _____

EQUIPMENT

Cranes & Hoists: _____
 Other: _____
 GFGI: _____

OTHER COMMENTS

This space shall be in the hangar floor area and shall be designated by painted stripe on hangar floor. Size shall be for 3-5 barrels.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Wash Rack Equipment Storage**

Size (s.f.): **430** Occupancy: _____ Function: Storage

Size (s.m.): 40

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/ gypsum board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal Steel, steel overhead coiling

Adjacencies: Corridor, Hangar Floor

Features: NSR

Furnishings: Counter with sink and Cabinets

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: **10 lb ABC Fire Extinguisher**

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Cable TV

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Equipment Storage

Size (s.f.): 540 Occupancy: _____ Function: Storage

Size (s.m.): 50

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/gypsum board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow metal steel, steel overhead coiling

Adjacencies: Hangar Area

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Corridors
 Size (s.f.): 2200 Occupancy: _____ Function: Access/Egress
 Size (s.m.): 200

ARCHITECTURAL

Finishes:
 Floor: Vinyl Composition Tile/ Sealed concrete
 Walls: Painted CMU or gypsum board
 Ceiling: 2x4 Suspended Acoustical Ceiling Tile/ Exposed structure
 Clear Ceiling Height: 3048mm (10'-0")
 Windows: NSR
 Doors: Hollow Metal Steel
 Adjacencies: 0
 Features: NSR
 Furnishings: NSR

STRUCTURAL

Floor: NSR
 Walls: NSR
 Ceiling: NSR
 Features: NSR

HVAC

Heating: Air Conditioning: Ventilation:
 Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)
 Special Requirements: _____

PLUMBING

Fixtures: _____
 Shop Air: Equipment Air: Floor Drains:
 Natural Gas: Other: _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers
 Hazard Classification: To be determined
 Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: LAN: PA:
 Lighting: Flourescent
 Special Requirements: _____
 Security: _____

EQUIPMENT

Cranes & Hoists: _____
 Other: _____
 GFGI: _____

OTHER COMMENTS

Forklift access from storage areas to hangar floor.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Electrical room

Size (s.f.): 800 Occupancy: _____ Function: Electrical equipment

Size (s.m.): 75

ARCHITECTURAL

Finishes:

Floor: Sealed Concrete

Walls: Painted CMU

Ceiling: Exposed structure

Clear Ceiling Height: ---

Windows: NSR

Doors: Hollow Metal Steel - Insulated

Adjacencies: Centrall located if possible

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: Air Conditioning: Ventilation:

Temperature: Cooling-30 C (86 F), Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: Equipment Air: Floor Drains:

Natural Gas: Other: _____

FIRE PROTECTION

System Type: Wet Pipe Suppression

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: LAN: PA:

Lighting: Flourescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Administrative**

Size (s.f.): **1615** Occupancy: 20 Function: Offices and conference room

Size (s.m.): 150

ARCHITECTURAL

Finishes:

Floor: Carpet

Walls: Painted gypsum board

Ceiling: 2x4 Suspended Acoustical Ceiling Tile

Clear Ceiling Height: 2.7 m (9' 0")

Windows: NSR

Doors: Hollow Metal Steel

Adjacencies: Centrally located in clean area

Features: White boards, motorized ceiling projection screen

Furnishings: NRS

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: NSR

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent, Recessed can on dimmers in conference room

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: All room furnishings

OTHER COMMENTS

DVD, VCR Video display, audio system with speakers, cable tv, warrior network (CCTV)

Dedicated computer circuit

Conference room for 12-15 w/ view to hangar floor. One office w/ view to hangar floor.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Fire Protection Room**

Size (s.f.): **485** Occupancy: _____ Function: Fire pumps and equipment room

Size (s.m.): **45**

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/ Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: To be determined

Windows: NSR

Doors: Hollow Metal Steel - Insulated

Adjacencies: Mechanical Room and Electrical Room, Exterior

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Fluorescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Mechanical Room**

Size (s.f.): **10,760** Occupancy: _____ Function: Mechanical Room including supply and return plenums

Size (s.m.): **1000**

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal Steel - Insulated, steel overhead coiling

Adjacencies: Electrical

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: Domestic water and natural gas entrance

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Fluorescent or Metal halide; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: Freight elevator is required to service large mechanical equipment above 9.144m (30'-0").

Other: Building central heating and cooling systems

GFGI: _____

OTHER COMMENTS

This space needs forklift and truck dock access.

INDIVIDUAL SPACE CRITERIA DATA SHEETSpace: Hangar Floor w/ door pocketsSize (s.f.): 61,000 Occupancy: 50 Function: Aircraft depaintSize (s.m.): 5665**ARCHITECTURAL**

Finishes:

Floor: Sealed ConcreteWalls: Painted CMU and metal siding;Preference for pre-finished semi-flat/smooth metal liner panel to roof deck.Ceiling: Suspended pre-finished smooth metal liner panelClear Ceiling Height: As required for necessary clearancesWindows: NSRDoors: Personel doors to be Hollow Metal Steel - Insulated; Hangar doors, 2 sets of horizontal slidingAdjacencies: CentralFeatures: NSRFurnishings: NSR**STRUCTURAL**Floor: NSRWalls: NSRCeiling: NSRFeatures: NSR**HVAC**Heating: Air Conditioning: *Ventilation: Temperature: Ventilate, heat to 20 C (68 F)/30% RH min., * option to cool to 25.5 C (78 F)Special Requirements: 24 m/s (80 fpm) uniform airflow, exhaust air filtration system, maintain negative pressure**PLUMBING**Fixtures: Emergency eyewash unitsShop Air: Equipment Air: Floor Drains: Natural Gas: Other: Breathing air**FIRE PROTECTION**System Type: Wet Pipe SuppressionHazard Classification: To be determined

Detection:

10 lb ABC Fire Extinguisher**ELECTRICAL**Telephone: LAN: PA: Lighting: Metal halide; 75fc

Special Requirements:

Security:

EQUIPMENT*8 Cranes & Hoists: T-tail crane, teleplatforms (8 future, 2 fore, two aft, and two over each wing),
tail work stands ("tail-in" alternative)Other: Fall protection systems

GFGI:

OTHER COMMENTSHangar Doors - Exterior- Horizontal Rolling with Pre-finished insulated metal panels on exterior faceHangar Doors - Interior- Horizontal Rolling designed for uniform air flow from plenumDry Media Stripping System (DMSS)

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Blast Media Unload-Storage**

Size (s.f.): **1720** Occupancy: _____ Function: Communications Equipment

Size (s.m.): 160

ARCHITECTURAL

Finishes:

Floor: Sealed Concrete

Walls: Painted CMU/gypsum board

Ceiling: Exposed structure

Clear Ceiling Height: As required for equipment

Windows: NSR

Doors: Hollow Metal Steel - Insulated

Adjacencies: Truck dock access, hangar floor

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: Continuous exhaust system

PLUMBING

Fixtures: Emergency eyewash

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** Breathing air, DMSS recovery system

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguisher

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Provide means to directly insert new DMSS media into each recovery system from this room.

Requires forklift and truck dock access.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Blast Media Reclaim-Recovery**

Size (s.f.): **1720** Occupancy: _____ Function: _____

Size (s.m.): 160

ARCHITECTURAL

Finishes:

Floor: Sealed Concrete

Walls: Painted CMU/ gypsum board

Ceiling: None

Clear Ceiling Height: 45'-0"

Windows: NSR

Doors: Hollow Metal Steel - Insulated

Adjacencies: truck dock access, hangar floor

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: Continuous exhaust system

PLUMBING

Fixtures: Emergency eyewash

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** Breathing air

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguisher

Hazard Classification: To be determined

Detection:

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: **Flourescent; 30fc**

Special Requirements:

Security:

EQUIPMENT

Cranes & Hoists:

Other: DMSS equipment

GFGI:

OTHER COMMENTS

Requires forklift and truck dock access.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Mechanical Room

Size (s.f.): 900 *(3150) Occupancy: _____ Function: Boilers for mechanical system

Size (s.m.): 85 *(290) _____ *(Process Cooling Option)

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal Steel - Insulated, steel overhead coiling

Adjacencies: Electrical

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: Air Conditioning: Ventilation:

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: Equipment Air: Floor Drains:

Natural Gas: Other: Domestic water and natural gas entrance

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: LAN: PA:

Lighting: Fluorescent or Metal halide; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Restrooms-Dressing Rooms

Size (s.f.): 2260 Occupancy: 50 Function: _____

Size (s.m.): 210

ARCHITECTURAL

Finishes:

Floor: Ceramic Tile

Walls: Ceramic tile wainscot to 1524mm (5'-0"); painted gypsum board or CMU

Ceiling: Suspended Gypsum Board, painted

Clear Ceiling Height: 2.7 m (9' 0")

Windows: NSR

Doors: Hollow Metal Steel

Adjacencies: Central

Features: Clean and contaminated locker areas

Furnishings: Equal number metal lockers in clean and contaminated locker areas.

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: Exhaust system

PLUMBING

Fixtures: Toilets, urinals, showers, lavatories, mop sink (Janitor Closet)

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression

Hazard Classification: To be determined

Detection: _____

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Stainless Steel toilet accessories, floor mounted toilet partitions, wash basins rather than sinks

Toilets shall be accessible from the clean areas.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Issue Rooms-Pharmacy

Size (s.f.): 1290 Occupancy: 2 Function: Storage-issue PPE and equipment

Size (s.m.): 120

ARCHITECTURAL

Finishes:

Floor: Vinyl Composition Tile

Walls: Painted gypsum board or CMU

Ceiling: 2x4 Suspended Acoustical Ceiling Tile

Clear Ceiling Height: 2.7 m (9' 0")

Windows: NSR

Doors: Hollow Metal Steel

Adjacencies: Centrally located in clean area

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN: CAT-6

PA:

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: Counter with shutter, adequate metal storage shelving (see comments).

GFGI: _____

OTHER COMMENTS

Shelving shall be 30.5 meters (100 linear ft) of 1.22m (4'-0") wide, 3 high (reachable by hand) for dry goods.

Each row of shelves needs to be 1066 mm (42") min. from adjacent row and accessible from both sides.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Break Area

Size (s.f.): 1080 Occupancy: 50 Function: _____

Size (s.m.): 100

ARCHITECTURAL

Finishes:

Floor: Vinyl Composition Tile

Walls: Painted gypsum board or CMU

Ceiling: 2x4 Suspended Acoustical Ceiling Tile

Clear Ceiling Height: 2.7 m (9' 0")

Windows: Exterior insulated

Doors: Hollow Metal Steel

Adjacencies: Centrally located in clean area

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: Sink, garbage disposal, utilities for ice machine, dishwasher, and (4) vending machines

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** Recirculation hot water system

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: Counter with sink and cabinets

GFGI: Refrigerator, diswasher, microwave, vending machines

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Chemical Storage**

Size (s.f.): **3770** Occupancy: _____ Function: Chemical storage and dispensing equipment

Size (s.m.): 350

ARCHITECTURAL

Finishes:

Floor: Chemical resistant sealer

Walls: Painted CMU/ Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow metal steel, steel overhead coiling

Adjacencies: Exterior

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Cooling 30 C (86 F), Heating 18.3 C (65 F)

Special Requirements: Continuous exhaust system

PLUMBING

Fixtures: Emergency eyewash/showers, hose bibbs

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: Industrial waste system

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Fluorescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Provide space for 19 m³ acid tank, 3.8 m³ alodine tank, 19 m³ detergent tank, 19 m³ hot water tank, water softener, and all associated pumps, mixers, mixing tanks, and piping.

Forklift and truck dock access. Provide containment/drainage per NFPA 30, if required.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Solvent Storage

Size (s.f.): 1080 Occupancy: 10 Function: Solvent storage

Size (s.m.): 100

ARCHITECTURAL

Finishes:

Floor: Solvent resistant sealer

Walls: Painted CMU/ Gypsum Board

Ceiling: NSR

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal steel, steel overhead coiling

Adjacencies: NSR

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Cooling - 30 C (86 F), Heating 18.3 C (65 F)

Special Requirements: Continuous ventilation per NFPA 30

PLUMBING

Fixtures: NSR

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: Industrial waste system

FIRE PROTECTION

System Type: Wet Pipe Suppression/ Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Flourescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Provide containment/drainage per NFPA 30.

Provide space for six (6) each 208L (55 gal) drums.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Communication Room

Size (s.f.): 110 Occupancy: _____ Function: Storage

Size (s.m.): 10

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/ Gypsum board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow metal steel

Adjacencies: Exterior

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 27 C (80 F), Heating 18 C (65 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Fluorescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Paint Storage**

Size (s.f.): **860** Occupancy: 10 Function: Paint storage for enough paint for two C-5 aircraft

Size (s.m.): **80**

ARCHITECTURAL

Finishes:

Floor: Sealed concrete, spills easily cleaned

Walls: Painted CMU/ Gypsum board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal Steel - Steel overhead coiling

Adjacencies: NSR

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Cooling - 26.7 C (80 F), Heating 18.3 C (65 F)

Special Requirements: Continuous ventilation per NFPA 30

PLUMBING

Fixtures: NSR

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: Industrial waste

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Flourescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists:

Other: Provide five (5) 457mm x 914mm (18" x 36") cabinets.

GFGI: _____

OTHER COMMENTS

Provide containment/drainage per NFPA 30.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Initial Accumulation Point
 Size (s.f.): 110 Occupancy: _____ Function: Small item accumulation
 Size (s.m.): 10

ARCHITECTURAL

Finishes:
 Floor: Sealed concrete
 Walls: Painted CMU
 Ceiling: NSR
 Clear Ceiling Height: 3m (10' 0")
 Windows: NSR
 Doors: NSR
 Adjacencies: Hangar Area
 Features: _____
 Furnishings: _____

STRUCTURAL

Floor: NSR
 Walls: NSR
 Ceiling: NSR
 Features: NSR

HVAC

Heating: Air Conditioning: Ventilation:
 Temperature: NSR
 Special Requirements: _____

PLUMBING

Fixtures: _____
 Shop Air: Equipment Air: Floor Drains:
 Natural Gas: Other: _____

FIRE PROTECTION

System Type: Fire Extinguisher
 Hazard Classification: To be determined
 Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: LAN: PA:
 Lighting: NSR
 Special Requirements: _____
 Security: _____

EQUIPMENT

Cranes & Hoists: _____
 Other: _____
 GFGI: _____

OTHER COMMENTS

This space shall be in the hangar floor area and shall be designated by painted stripe on hangar floor. Size shall be for 3-5 barrels.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Equipment Cleaning

Size (s.f.): 375 Occupancy: _____ Function: Area for cleaning paint equipment, tools, paint guns, etc.

Size (s.m.): 35

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/ Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: As required

Windows: NSR

Doors: Hollow Metal Steel, steel overhead coiling

Adjacencies: Equipment storage

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: Local intermittent exhaust system

PLUMBING

Fixtures: Emergency eyewash, Hose bibbs (2)

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: Industrial waste

FIRE PROTECTION

System Type: Wet Pipe Suppression

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Flourescent; 50fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Equipment Storage

Size (s.f.): 700 Occupancy: _____ Function: Storage

Size (s.m.): 65

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/ Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: 2.7 m (9' 0")

Windows: NSR

Doors: Hollow metal steel, steel overhead coiling

Adjacencies: Hangar Area

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Corridors

Size (s.f.): 2200 Occupancy: _____ Function: Access/Egress

Size (s.m.): 200

ARCHITECTURAL

Finishes:

Floor: Vinyl Composition Tile

Walls: Painted CMU/Gypsum Board

Ceiling: 2x4 Suspended Acoustical Ceiling Tile

Clear Ceiling Height: 3.05 m (10'-0")

Windows: NSR

Doors: Hollow Metal Steel

Adjacencies: 0

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Forklift access from storage areas to hangar floor.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Electrical room

Size (s.f.): 800 Occupancy: _____ Function: Electrical equipment

Size (s.m.): 75

ARCHITECTURAL

Finishes:

Floor: Sealed Concrete

Walls: Painted CMU/Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: ---

Windows: NSR

Doors: Hollow Metal Steel - Insulated

Adjacencies: Centrall located if possible

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Cooling - 30 C (86 F), Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/ Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Flourescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEETSpace: **Administrative**Size (s.f.): **1615** Occupancy: 20 Function: Offices and conference roomSize (s.m.): 150**ARCHITECTURAL****Finishes:****Floor:** Carpet**Walls:** Painted gypsum board**Ceiling:** 2x4 Suspended Acoustical Ceiling Tile**Clear Ceiling Height:** 2.7 m (9' 0")**Windows:** NSR**Doors:** Hollow Metal Steel**Adjacencies:** Centrally located in clean area**Features:** White boards, motorized ceiling projection screen**Furnishings:** NRS**STRUCTURAL****Floor:** NSR**Walls:** NSR**Ceiling:** NSR**Features:** NSR**HVAC****Heating:** **Air Conditioning:** **Ventilation:** **Temperature:** Cooling 23.8 C (75 F), Heating 21.1 C (70 F)**Special Requirements:** _____**PLUMBING****Fixtures:** NSR**Shop Air:** **Equipment Air:** **Floor Drains:** **Natural Gas:** **Other:** _____**FIRE PROTECTION****System Type:** Wet Pipe Suppression/Fire Extinguishers**Hazard Classification:** To be determined**Detection:** 10 lb ABC Fire Extinguisher**ELECTRICAL****Telephone:** **LAN:** **PA:** **Lighting:** Flourescent, Recessed can on dimmers in conference room**Special Requirements:** _____**Security:** _____**EQUIPMENT****Cranes & Hoists:** _____**Other:** _____**GFGI:** All room furnishings**OTHER COMMENTS**DVD, VCR Video display, audio system with speakers, cable tv, warrior network (CCTV)Dedicated computer circuitConference room for 12-15 w/ view to hangar floor. One office w/ view to hangar floor.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Fire Protection Room**

Size (s.f.): **485** Occupancy: _____ Function: Fire protecton equipment room

Size (s.m.): **45**

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/ Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: To be determined

Windows: NSR

Doors: Hollow Metal Steel - Insulated

Adjacencies: Mechanical Room and Electrical Room, Exterior

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Fluorescent; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: **Mechanical Room**

Size (s.f.): **10,760** Occupancy: _____ Function: Mechanical Room including supply and return plenums

Size (s.m.): **1000**

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal Steel - Insulated, steel overhead coiling

Adjacencies: Electrical

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: Domestic water and natural gas entrance

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Fluorescent or Metal halide; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: Freight elevator is required to service large mechanical equipment above 9.144m (30'-0").

Other: Building central heating and cooling systems

GFGI: _____

OTHER COMMENTS

This space needs forklift and truck dock access.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Hangar Floor w/ door pockets

Size (s.f.): 61,000 Occupancy: 50 Function: Aircraft paint

Size (s.m.): 5665

ARCHITECTURAL

Finishes:

Floor: Sealed Concrete

Walls: Painted CMU to 12'-0" above 0.0; Pre-finished smooth metal liner panel to roof deck.

Ceiling: Suspended pre-finished smooth metal liner panel

Clear Ceiling Height: As required for necessary clearances

Windows: NSR

Doors: Personel doors to be Hollow Metal Steel - Insulated; Hangar doors, 2 sets of horizontal sliding

Adjacencies: Central

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating:

Air Conditioning:

Ventilation:

Temperature: Ventilate, Heating: 20 C (68 F) paint, 30 C (86 F) / 30% RH (min) cure mode

Special Requirements: Maintain space negative pressure

PLUMBING

Fixtures: Emergency eyewash/shower

Shop Air:

Equipment Air:

Floor Drains:

Natural Gas:

Other: Industrial waste, breathing air, trench drains

FIRE PROTECTION

System Type: Wet Pipe Suppression

Hazard Classification: To be determined

Detection: 10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone:

LAN:

PA:

Lighting: Metal halide; 75fc

Special Requirements: _____

Security: _____

EQUIPMENT

*8 **Cranes & Hoists:** T-tail crane, teleplatforms (8 future 2 fore, two aft, and two over each wing), tail work stands (if required)

Other: Fall protection systems

GFGI: _____

OTHER COMMENTS

Hangar Doors - Exterior- Horizontal Rolling with Pre-finished insulated metal panels on exterior face

Hangar Doors - Interior- Horizontal Rolling designed for uniform air flow from plenum

Cold water, hot water, hot water/soap, acid etching, alodine systems, steam cleaning system, paint system.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Respirator Cleaning Room

Size (s.f.): 215 Occupancy: 10 Function: _____

Size (s.m.): 20

ARCHITECTURAL

Finishes:

Floor: Sealed Concrete

Walls: Painted CMU

Ceiling: Suspended Gypsum Board

Clear Ceiling Height: 3.657m (12'-0")

Windows: NSR

Doors: Hollow Metal Steel

Adjacencies: Central

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: Air Conditioning: Ventilation:

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: Sink, respirator washer/dryers, emergency eyewash

Shop Air: Equipment Air: Floor Drains:

Natural Gas: Other: Industrial waste

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: LAN: PA:

Lighting: Flourescent; 50fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Area for up to 10 people to be cleaning respirators at a time.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Stencil Room

Size (s.f.): 540 Occupancy: _____ Function: _____

Size (s.m.): 50

ARCHITECTURAL

Finishes:

Floor: Vinyl Composition Tile

Walls: Painted CMU/ Gypsum Board

Ceiling: 2x4 Suspended Acoustical Ceiling Tile

Clear Ceiling Height: 3.05m (10'-0")

Windows: NSR

Doors: Hollow Metal Steel

Adjacencies: Centrall located if possible

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent; 80fc plus task lighting at each work station

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEETSpace: Paint Mix RoomSize (s.f.): 430 Occupancy: _____ Function: _____Size (s.m.): 40**ARCHITECTURAL****Finishes:****Floor:** Sealed Concrete**Walls:** Painted CMU**Ceiling:** Suspended Gypsum Board**Clear Ceiling Height:** 3.657m (12'-0")**Windows:** NSR**Doors:** Hollow Metal Steel**Adjacencies:** Paint Storage, Solvent Storage**Features:** NSR**Furnishings:** NSR**STRUCTURAL****Floor:** NSR**Walls:** NSR**Ceiling:** NSR**Features:** NSR**HVAC****Heating:** **Air Conditioning:** **Ventilation:** **Temperature:** Cooling 27 C (80 F), Heating 20 C (68 F)**Special Requirements:** 100% outside air, special exhaust system**PLUMBING****Fixtures:** Emergency eyewash/shower, Hose bibbs (2)**Shop Air:** **Equipment Air:** **Floor Drains:** **Natural Gas:** **Other:** Industrial waste**FIRE PROTECTION****System Type:** Wet Pipe Suppression/Fire Extinguishers**Hazard Classification:** To be determined**Detection:** 10 lb ABC Fire Extinguisher**ELECTRICAL****Telephone:** **LAN:** **PA:** **Lighting:** Flourescent; 50fc**Special Requirements:** _____**Security:** _____**EQUIPMENT****Cranes & Hoists:** _____**Other:** Paint mixers**GFGI:** _____**OTHER COMMENTS**Spill containment shall be per NFPA. Prefer recessed floor with ramp rather than dikes at doors.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Mechanical Room

Size (s.f.): _____ *(4200) Occupancy: _____ Function: Chillers for Process Cooling

Size (s.m.): _____ *(390) _____ *(Process Cooling Option)

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal Steel - Insulated, steel overhead coiling

Adjacencies: Electrical

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: Air Conditioning: Ventilation:

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: Equipment Air: Floor Drains:

Natural Gas: Other: Domestic water and natural gas entrance

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: LAN: PA:

Lighting: Fluorescent or Metal halide; 30fc

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Mechanical Room

Size (s.f.): 900 *(3150) Occupancy: _____ Function: Boilers for mechanical system

Size (s.m.): 85 *(290) *(Process Cooling Option)

ARCHITECTURAL

Finishes:

Floor: Sealed concrete

Walls: Painted CMU/Gypsum Board

Ceiling: Exposed structure

Clear Ceiling Height: NSR

Windows: NSR

Doors: Hollow Metal Steel - Insulated, steel overhead coiling

Adjacencies: Electrical

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Ventilate to 5 C (10 F) above ambient, Heating 12.8 C (55 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** Domestic water and natural gas entrance

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Fluorescent or Metal halide

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Restrooms-Dressing Rooms

Size (s.f.): 2260 Occupancy: 50 Function: _____

Size (s.m.): 210

ARCHITECTURAL

Finishes:

Floor: Ceramic Tile

Walls: Ceramic tile wainscot to 1524mm (5'-0"); painted gypsum board or CMU

Ceiling: Suspended Gypsum Board, painted

Clear Ceiling Height: 2.7 m (9' 0")

Windows: NSR

Doors: Hollow Metal Steel

Adjacencies: Central

Features: Clean and contaminated locker areas

Furnishings: Equal number metal lockers in clean and contaminated locker areas.

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: Exhaust system

PLUMBING

Fixtures: Toilets, urinals, showers, lavatories, mop sink (Janitor Closet)

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** _____

FIRE PROTECTION

System Type: Wet Pipe Suppression

Hazard Classification: To be determined

Detection: _____

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: _____

GFGI: _____

OTHER COMMENTS

Stainless Steel toilet accessories, floor mounted toilet partitions, wash basins rather than sinks

Toilets shall be accessible from the clean areas.

INDIVIDUAL SPACE CRITERIA DATA SHEETSpace: Issue Rooms-PharmacySize (s.f.): 1290 Occupancy: 2 Function: Storage-issue PPE and equipmentSize (s.m.): 120**ARCHITECTURAL**

Finishes:

Floor: Vinyl Composition TileWalls: Painted gypsum board or CMUCeiling: 2x4 Suspended Acoustical Ceiling TileClear Ceiling Height: 2.7 m (9' 0")Windows: NSRDoors: Hollow Metal SteelAdjacencies: Centrally located in clean areaFeatures: NSRFurnishings: NSR**STRUCTURAL**Floor: NSRWalls: NSRCeiling: NSRFeatures: NSR**HVAC**Heating: Air Conditioning: Ventilation: Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: _____

Shop Air: Equipment Air: Floor Drains: Natural Gas:

Other: _____

FIRE PROTECTIONSystem Type: Wet Pipe Suppression/Fire ExtinguishersHazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher**ELECTRICAL**Telephone: LAN: CAT-6PA: Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: Counter with shutter, adequate metal storage shelving (see comments).

GFGI: _____

OTHER COMMENTSShelving shall be 30.5 meters (100 linear ft) of 1.22m (4'-0") wide, 3 high (reachable by hand) for dry goods, and 9.1 meters (30 feet) for sealant kits. Each row of shelves needs to be 1066 mm (42") min. from adjacent row and accessible from both sides.

INDIVIDUAL SPACE CRITERIA DATA SHEET

Space: Break Area

Size (s.f.): 1080 Occupancy: 50 Function: _____

Size (s.m.): 100

ARCHITECTURAL

Finishes:

Floor: Vinyl Composition Tile

Walls: Painted gypsum board or CMU

Ceiling: 2x4 Suspended Acoustical Ceiling Tile

Clear Ceiling Height: 2.7 m (9' 0")

Windows: Exterior insulated

Doors: Hollow Metal Steel

Adjacencies: Centrally located in clean area

Features: NSR

Furnishings: NSR

STRUCTURAL

Floor: NSR

Walls: NSR

Ceiling: NSR

Features: NSR

HVAC

Heating: **Air Conditioning:** **Ventilation:**

Temperature: Cooling 23.8 C (75 F), Heating 21.1 C (70 F)

Special Requirements: _____

PLUMBING

Fixtures: Sink, garbage disposal, utilities for ice machine, dishwasher, and (4) vending machines

Shop Air: **Equipment Air:** **Floor Drains:**

Natural Gas: **Other:** Recirculation hot water system

FIRE PROTECTION

System Type: Wet Pipe Suppression/Fire Extinguishers

Hazard Classification: To be determined

Detection: _____

10 lb ABC Fire Extinguisher

ELECTRICAL

Telephone: **LAN:** **PA:**

Lighting: Flourescent

Special Requirements: _____

Security: _____

EQUIPMENT

Cranes & Hoists: _____

Other: Counter with sink and cabinets

GFGI: Refrigerator, diswasher, microwave, vending machines

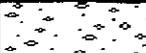
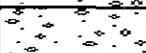
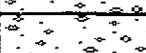
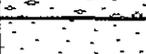
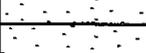
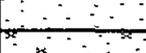
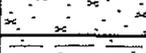
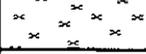
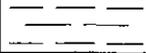
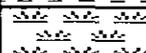
OTHER COMMENTS

APPENDIX D

GEOTECHNICAL INFORMATION

In addition see separately bound drawings for more information. Boring locations shown on site drawing.

Soil Boring Legend

	Description	Soil Symbol
GW	Well graded gravels, gravel-sand mixtures, less than 5% passing No. 200 sieve	
GP	Poorly graded gravels, gravel-sand mixtures, less than 5% passing No. 200 sieve	
GM	Silty gravels, gravel sand mixture more than 12% passing No. 200 sieve	
SW	Well graded sands, gravel-sand mixtures, less than 5% passing No. 200 sieve	
SP	Poorly graded sands, gravelly sands, less than 5% passing No. 200 sieve	
SM	Silty sands, more than 12% and less than 50% passing No. 200 sieve	
SC	Clayey sands, more than 12% and less than 50% passing No. 200 sieve	
ML	Silts, sandy silts, more than 50% passing No. 200 sieve	
CL	Clays, sandy clays, more than 50% passing No. 200 sieve	
MH	Inorganic silts, more than 50% passing No. 200 sieve, highly plastic	
CH	Inorganic clays, more than 50% passing No. 200 sieve, highly plastic	
TOP	Topsoil	
ASPH	Asphalt	
CONC	Concrete	
PWR	Partially weathered rock	
GAB	Graded aggregate base	
GRAV	Gravel	

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Macon, Georgia 31210-5691

SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04	Boring No: B-1
Location: Robins Air Force Base, Georgia	Project No: MCG-03-0475A
Driller/Equipment: GEC/ CME-55 2.25" HSA	GS Elevation:
Water Level: 22.0 ft at time of boring	Drilling Date: March 12, 2003
	Engineer/Geologist:

Water Level (ft)	Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)					N-Value	
					0	10	20	30	60		80
			ASPHALT								
	3"		GRAVEL	SS-1							4
	7"		COASTAL PLAIN SEDIMENTS								
			very loose, brown, medium to fine, clayey SAND (SC) ; with some silt	SS-2							16
	5		firm, light brown, medium to fine, clayey SAND (SC)								
			very firm, light brown, medium to fine, clayey SAND (SC)	SS-3							23
			hard, pale reddish-brown, medium to fine, sandy CLAY (CL)								
	10			SS-4							39
			dense, very pale whitish-gray, medium to fine, silty SAND (SM)								
	15			SS-5							45
			dense, very dark grayish-brown, medium to fine, silty SAND (SM)								
	20			SS-6							31
			firm, pink, coarse to fine, silty SAND (SM)								
	25		BORING TERMINATED AT 25.0 ft	SS-7							13

GEOTECH MCG-03-0475A.GPJ GEC.BDT 4/21/03

- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES:

SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04		Boring No: B-2	
Location: Robins Air Force Base, Georgia		Project No: MCG-03-0475A	
Driller/Equipment: GEC/ CME-55 2.25" HSA		GS Elevation:	
Water Level: 19.0 ft at time of boring		Drilling Date: March 13, 2003	
		Engineer/Geologist:	

Water Level (ft)	Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)	N-Value
		FILL				
		/ / / / /	loose, yellowish-brown, medium to fine, clayey SAND (SC); with root strands	SS-1	10	6
		COASTAL PLAIN SEDIMENTS				
	5	/ / / / /	firm, reddish-brown, medium to fine, clayey SAND (SC)	SS-2	15	15
		/ / / / /	very firm, light reddish-brown, medium to fine, clayey SAND (SC)	SS-3	22	22
	10	/ / / / /	very stiff, purplish-gray, medium to fine, CLAY (CL)	SS-4	20	20
	15	/ / / / /	very stiff, black, medium to fine, sandy CLAY (CL); with some silt	SS-5	16	16
	20	□	firm, light brown, medium to fine, silty SAND (SM)	SS-6	14	14
	25	□	very firm, light reddish-brown, medium to fine, silty SAND (SM)	SS-7	21	21
			BORING TERMINATED AT 25.0 ft			

• Depths are measured from existing ground surface at time of drilling.

• Depths are shown to illustrate general arrangements of the strata encountered at the boring location.

• Do not use depths for determinations of quantities or distances.

NOTES:

GEO TECH MCG-03-0475A.GPJ GEC.GDT 4/21/03

SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04		Boring No: B-3	
Location: Robins Air Force Base, Georgia		Project No: MCG-03-0475A	
Driller/Equipment: GEC/ CME-55 2.25" HSA		GS Elevation:	
Water Level: 22.0 ft at time of boring		Drilling Date: March 12, 2003	
		Engineer/Geologist:	

Water Level (ft)	Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)					N-Value	
					0	10	20	30	60		80
		■	ASPHALT								
	3"	■	GRAVEL	SS-1		●					7
	7"	■	FILL								
	5	■	loose, brown, medium to fine, clayey SAND (SC) ; with trace silt, with root strands	SS-2		●					10
		■	COASTAL PLAIN SEDIMENTS								
		■	loose, light reddish-brown, medium to fine, clayey SAND (SC)	SS-3		●					13
		■	firm, light grayish-brown, medium to fine, clayey SAND (SC)	SS-4		●					17
	10	■									
		■	very dense, light brownish-gray, medium to fine, silty SAND (SM) ; indurated sand	SS-5		●				>>	50/5
	15	■									
		■	very loose, gray, medium to fine, clayey SAND (SC)	SS-6		●					4
	20	■									
		■	firm, pale gray, medium to fine, silty SAND (SM)	SS-7		●					11
	25	■	BORING TERMINATED AT 25.0 ft								

· Depths are measured from existing ground surface at time of drilling.
 · Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
 · Do not use depths for determinations of quantities or distances.

NOTES:

GEO TECH MCG-03-0475A.GPJ GEC.GDT 4/21/03

SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04	Boring No: B-4
Location: Robins Air Force Base, Georgia	Project No: MCG-03-0475A
Driller/Equipment: GEC/ CME-55 2.25" HSA	GS Elevation:
Water Level: 22.0 ft at time of boring	Drilling Date: March 13, 2003
Engineer/Geologist:	

Water Level (ft)	Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)							N-Value	
					0	10	20	30	60	80			
		/ / / / /	FILL loose, reddish-brown, medium to fine, clayey SAND (SC) ; with some silt	SS-1		10							9
	5	. . . . .	firm, reddish-brown, medium to fine, silty SAND (SM)	SS-2		15							14
		. . . . .	COASTAL PLAIN SEDIMENTS very firm, reddish-gray, medium to fine, clayey SAND (SC)	SS-3		20							18
	10	/ / / / /	firm, reddish-gray, medium to fine, clayey SAND (SC)	SS-4		25							21
		/ / / / /	firm, reddish-gray, medium to fine, clayey SAND (SC)	SS-5		30							11
	15	. . . . .	very firm, light brown, medium to fine, SAND (SP) ; with some silt	SS-6		35							27
		. . . . .	dense, light gray, medium to fine, SAND (SP) ; with some silt	SS-7		40							34
	20	. . . . .	BORING TERMINATED AT 25.0 ft										
	25	▽											

· Depths are measured from existing ground surface at time of drilling.
 · Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
 · Do not use depths for determinations of quantities or distances.

NOTES:

GEOTECH MCG-03-0475A.GPJ GEC.GDT 4/21/03

SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04	Boring No: B-5
Location: Robins Air Force Base, Georgia	Project No: MCG-03-0475A
Driller/Equipment: GEC/ CME-55 2.25" HSA	GS Elevation:
Water Level: 19.0 ft at time of boring	Drilling Date: March 13, 2003
Engineer/Geologist:	

Water Level (ft)	Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)					N-Value
					0	10	20	30	60		80
			ASPHALT							
	Depth 3"		GRAVEL	SS-1						7
	Depth 7"		FILL							
			COASTAL PLAIN SEDIMENTS							
			loose, brown, medium to fine, clayey SAND (SC) ; with trace gravel	SS-2						14
			firm, grayish-brown, medium to fine, clayey SAND (SC) ; with some silt	SS-3						17
				SS-4						18
			stiff, dark gray, medium to fine, CLAY (CL) ; with some silt	SS-5						11
			firm, very dark whitish-brown, medium to fine, SAND (SP) ; with some silt	SS-6						20
			dense, yellowish-brown, coarse to fine, silty SAND (SM)	SS-7						34
	25		BORING TERMINATED AT 25.0 ft							

- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES:

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SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04			Boring No: B-6	
Location: Robins Air Force Base, Georgia			Project No: MCG-03-0475A	
Driller/Equipment: GEC/ CME-55 2.25" HSA			GS Elevation:	
Water Level: 18.0 ft at time of boring			Drilling Date: March 13, 2003	
			Engineer/Geologist:	

Water Level (ft)	Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)	N-Value
			CONCRETE			
	Depth 8"		GRAVEL	SS-1	10	7
	Depth 1'		FILL			
			firm, brown, medium to fine, clayey SAND (SC)	SS-2	15	7
	5		COASTAL PLAIN SEDIMENTS			
			loose, reddish-brown, medium to fine, clayey SAND (SC) ; with some silt	SS-3	25	10
			very firm, reddish-brown, medium to fine, silty SAND (SM)	SS-4	35	24
	10		firm, dark gray, medium to fine, clayey SAND (SC)	SS-5	45	17
	15		firm, yellowish-brown, coarse to fine, silty SAND (SM)	SS-6	55	17
	20		BORING TERMINATED AT 25.0 ft	SS-7	65	20

GEO TECH MCG-03-0475A GPJ GEC.GDT 4/21/03

- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

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SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04		Boring No: B-7	
Location: Robins Air Force Base, Georgia		Project No: MCG-03-0475A	
Driller/Equipment: GEC/ CME-55 2.25" HSA		GS Elevation:	
Water Level: ---		Drilling Date: March 13, 2003	
		Engineer/Geologist:	

Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)					N-Value	
				0	10	20	30	60		80
		FILL								
		loose, brown, medium to fine, silty SAND (SM)	SS-1		10					6
5			SS-2		10					5
		COASTAL PLAIN SEDIMENTS								
		firm, grayish-brown, medium to fine, clayey SAND (SC)	SS-3		10	20				15
		very firm, grayish-brown, medium to fine, clayey SAND (SC)	SS-4		10	20				21
10										
		firm, light gray, coarse to fine, silty SAND (SM)	SS-5		10	20				17
15										
		dense, reddish-brown, medium to fine, silty SAND (SM)	SS-6		10	20				31
20										
			SS-7		10	20				36
25		BORING TERMINATED AT 25.0 ft								

GEO/TECH MCG-03-0475A.GPJ GEC.GDT 4/21/03

- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: No groundwater encountered at time of drilling

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SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04		Boring No: B-7	
Location: Robins Air Force Base, Georgia		Project No: MCG-03-0475A	
Driller/Equipment: GEC/ CME-55 2.25" HSA		GS Elevation:	
Water Level: ---		Drilling Date: March 13, 2003	
		Engineer/Geologist:	

Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)					N-Value	
				0	10	20	30	60		80
		FILL								
		loose, brown, medium to fine, silty SAND (SM)	SS-1		10					6
5			SS-2		10					5
		COASTAL PLAIN SEDIMENTS								
		firm, grayish-brown, medium to fine, clayey SAND (SC)	SS-3		10	20				15
		very firm, grayish-brown, medium to fine, clayey SAND (SC)	SS-4		10	20				21
10										
		firm, light gray, coarse to fine, silty SAND (SM)	SS-5		10	20				17
15										
		dense, reddish-brown, medium to fine, silty SAND (SM)	SS-6		10	20				31
20										
			SS-7		10	20				36
25		BORING TERMINATED AT 25.0 ft								

GEO/TECH MCG-03-0475A.GPJ GEC.GDT 4/21/03

- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: No groundwater encountered at time of drilling

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SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04	Boring No: B-8
Location: Robins Air Force Base, Georgia	Project No: MCG-03-0475A
Driller/Equipment: GEC/ CME-55 2.25" HSA	GS Elevation:
Water Level: 18.0 ft at time of boring	Drilling Date: March 13, 2003
	Engineer/Geologist:

Water Level (ft)	Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)					N-Value	
					0	10	20	30	60		80
			FILL								
			firm, dark brown, medium to fine, silty SAND (SM); with some gravel	SS-1							14
	5		loose, light brown, medium to fine, clayey SAND (SC); with some silt	SS-2							9
			COASTAL PLAIN SEDIMENTS								
			firm, gray, medium to fine, clayey SAND (SC); with some silt	SS-3							12
	10			SS-4							18
	15		very firm, gray, fine, silty SAND (SM)	SS-5							27
	20		firm, light pinkish-brown, coarse to fine, silty SAND (SM); with some gravel	SS-6							15
	25		BORING TERMINATED AT 25.0 ft	SS-7							17

GEO TECH MCG-03-0475A.GPJ GEC.GDT 4/21/03

- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

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SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04			Boring No: B-9		
Location: Robins Air Force Base, Georgia			Project No: MCG-03-0475A		
Driller/Equipment: GEC/ CME-55 2.25" HSA			GS Elevation:		
Water Level: 13.0 ft at time of boring			Drilling Date: March 13, 2003		
			Engineer/Geologist:		

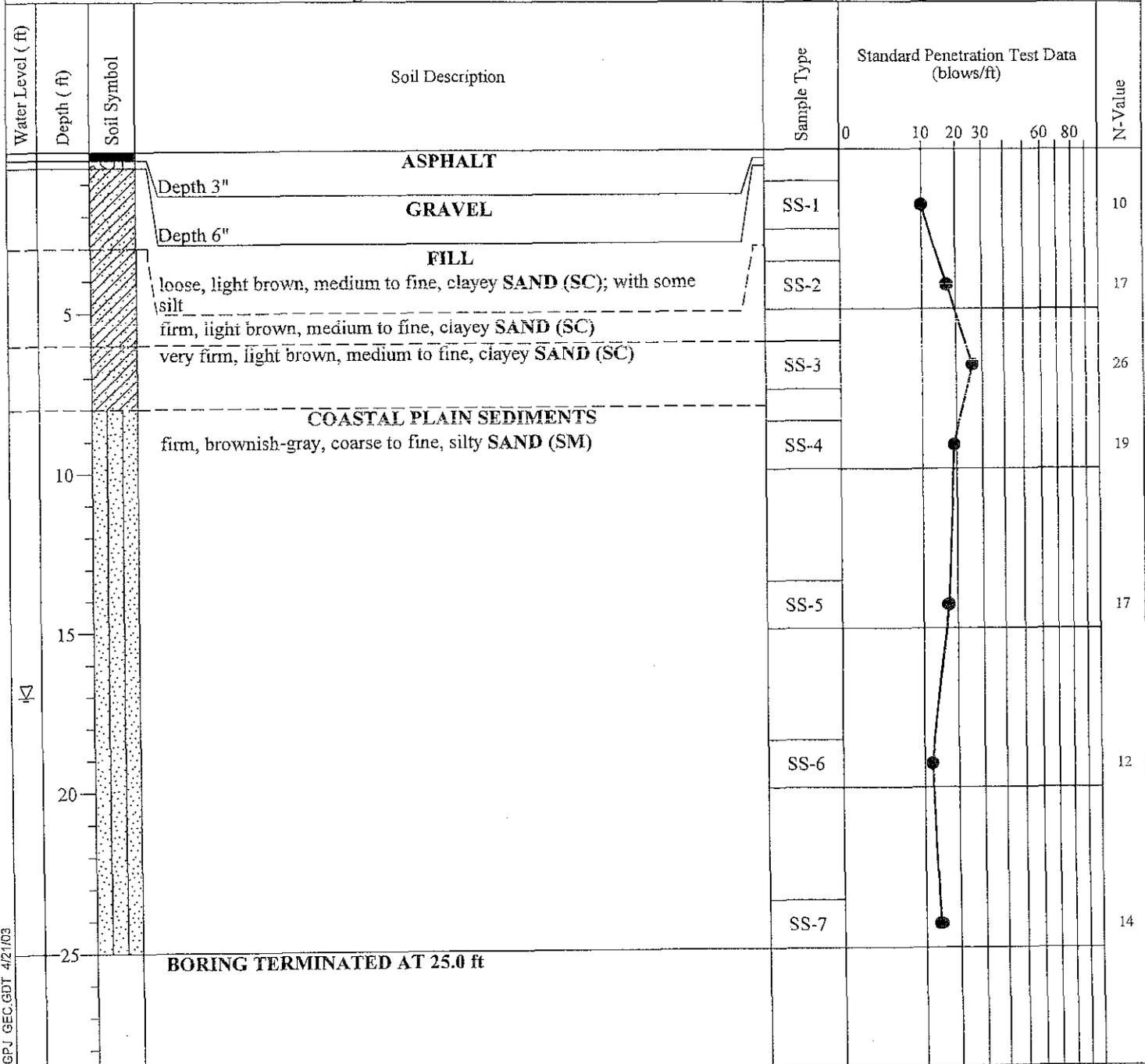
Water Level (ft)	Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)					N-Value	
					0	10	20	30	60		80
		▨	FILL firm, grayish-brown, medium to fine, clayey SAND (SC); with trace silt	SS-1		●					15
	5	▨		SS-2		●					17
		▨	very firm, reddish-brown, medium to fine, clayey SAND (SC); with some silt	SS-3		●					21
		▨	COASTAL PLAIN SEDIMENTS firm, gray, medium to fine, clayey SAND (SC)	SS-4		●					15
	10	▨		SS-5		●					12
		▨	firm, pale brownish-gray, coarse to fine, silty SAND (SM)	SS-6		●					14
	15	▨		SS-7		●					17
	20	▨									
	25	▨	BORING TERMINATED AT 25.0 ft								

<p>· Depths are measured from existing ground surface at time of drilling.</p> <p>· Depths are shown to illustrate general arrangements of the strata encountered at the boring location.</p> <p>· Do not use depths for determinations of quantities or distances.</p>	<p>NOTES:</p>
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GEOTECH MCG-03-0475A.GPJ GEC.GDT 4/21/03

SOIL BORING RECORD

Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04	Boring No: B-10
Location: Robins Air Force Base, Georgia	Project No: MCG-03-0475A
Driller/Equipment: GEC/ CME-55 2.25" HSA	GS Elevation:
Water Level: 17.0 ft at time of boring	Drilling Date: March 13, 2003
	Engineer/Geologist:



GEOTECH MCG-03-0475A.GPJ GEC.GDT 4/21/03

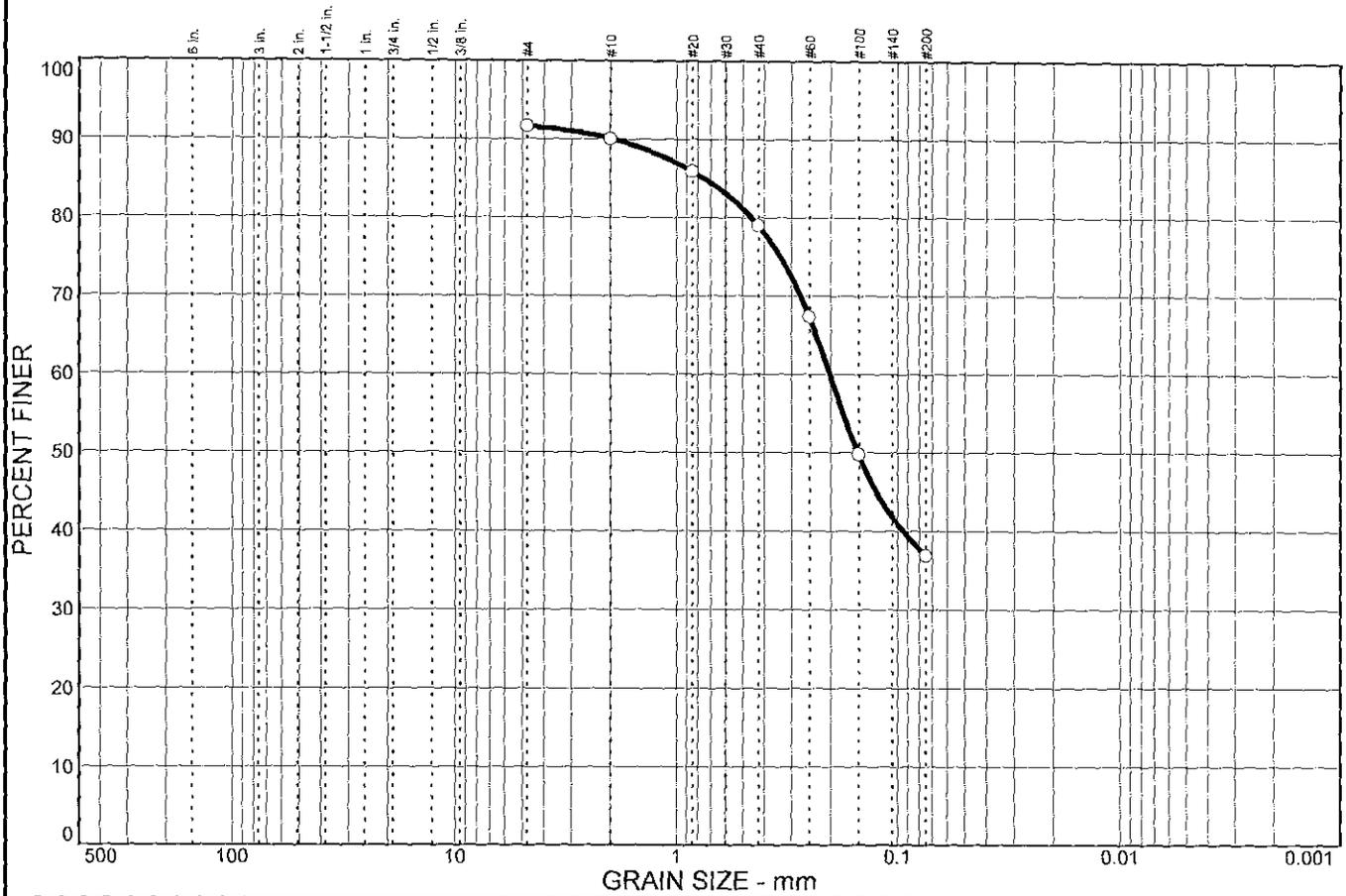
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES:

5021 Mercer University Drive, Suite D2, Macon, GA 31210
 5731 Miller Court, Suite C, Columbus, GA 31909
 1000 Business Center Drive, Suite 30, Savannah, GA 31405
 595 Dekalb Street, Suite E, Auburn, AL 36830

GEC
GEOTECHNICAL & ENVIRONMENTAL
C O N S U L T A N T S

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			1.6	11.1	42.1		36.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	91.7		
#10	90.1		
#20	85.9		
#40	79.0		
#60	67.4		
#100	49.8		
#200	36.9		

Soil Description

Brown clayey c-f SAND some silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.749 D₆₀= 0.202 D₅₀= 0.151

D₃₀= D₁₅= D₁₀=

C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

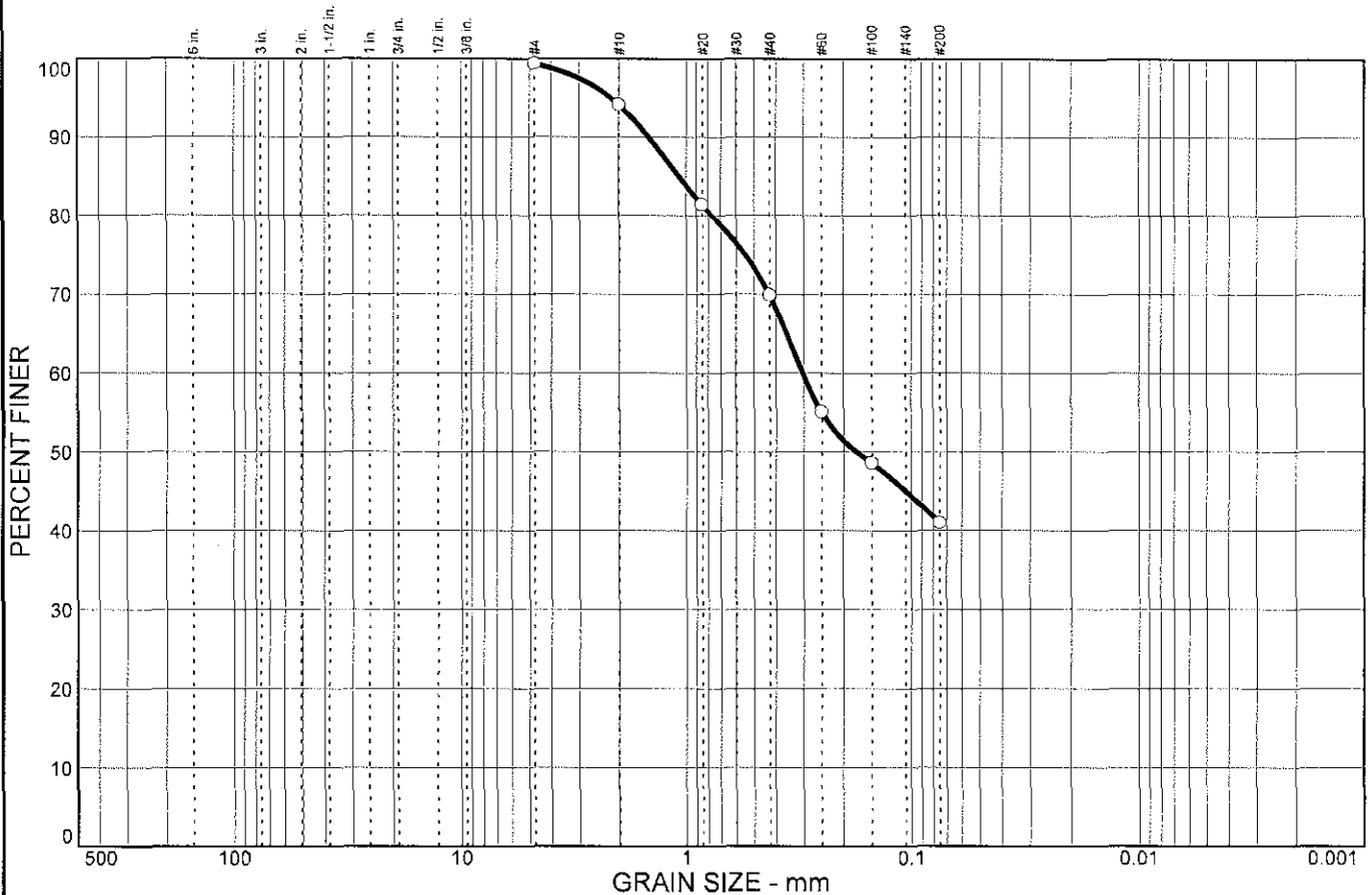
Sample No.: B-1
Location:

Source of Sample:

Date: 4-17-03
Elev./Depth: 1-2.5'

Geotechnical and Environmental Consultants	<p>Client:</p> <p>Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04 Robins Air Force Base, Georgia</p> <p>Project No: MCG-03-0475A Plate</p>
---	--

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			5.2	24.3	28.9	41.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	99.4		
#10	94.2		
#20	81.4		
#40	69.9		
#60	55.1		
#100	48.6		
#200	41.0		

Soil Description

Reddish brown clayey m-f SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 1.08 D₆₀= 0.302 D₅₀= 0.175

D₃₀= D₁₅= D₁₀=

C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B-2
Location:

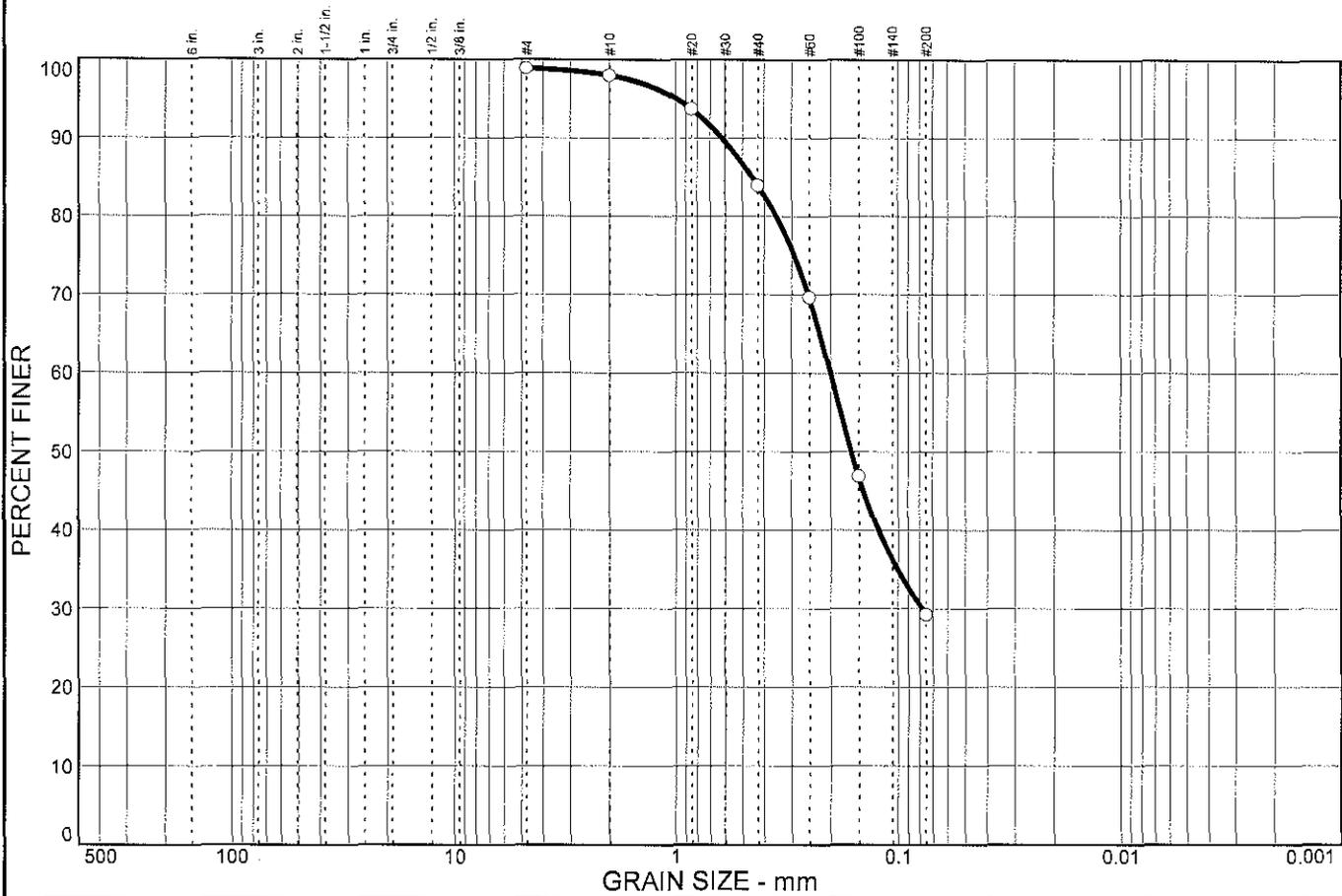
Source of Sample:

Date: 4-17-03
Elev./Depth: 3.5-5'

**Geotechnical
and Environmental
Consultants**

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0475A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			0.9	14.1	54.7	29.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	98.9		
#10	98.0		
#20	93.7		
#40	83.9		
#60	69.6		
#100	46.9		
#200	29.2		

Soil Description

Brown clayey m-f SAND trace of silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.451 D₆₀= 0.201 D₅₀= 0.162
D₃₀= 0.0783 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B-3
Location:

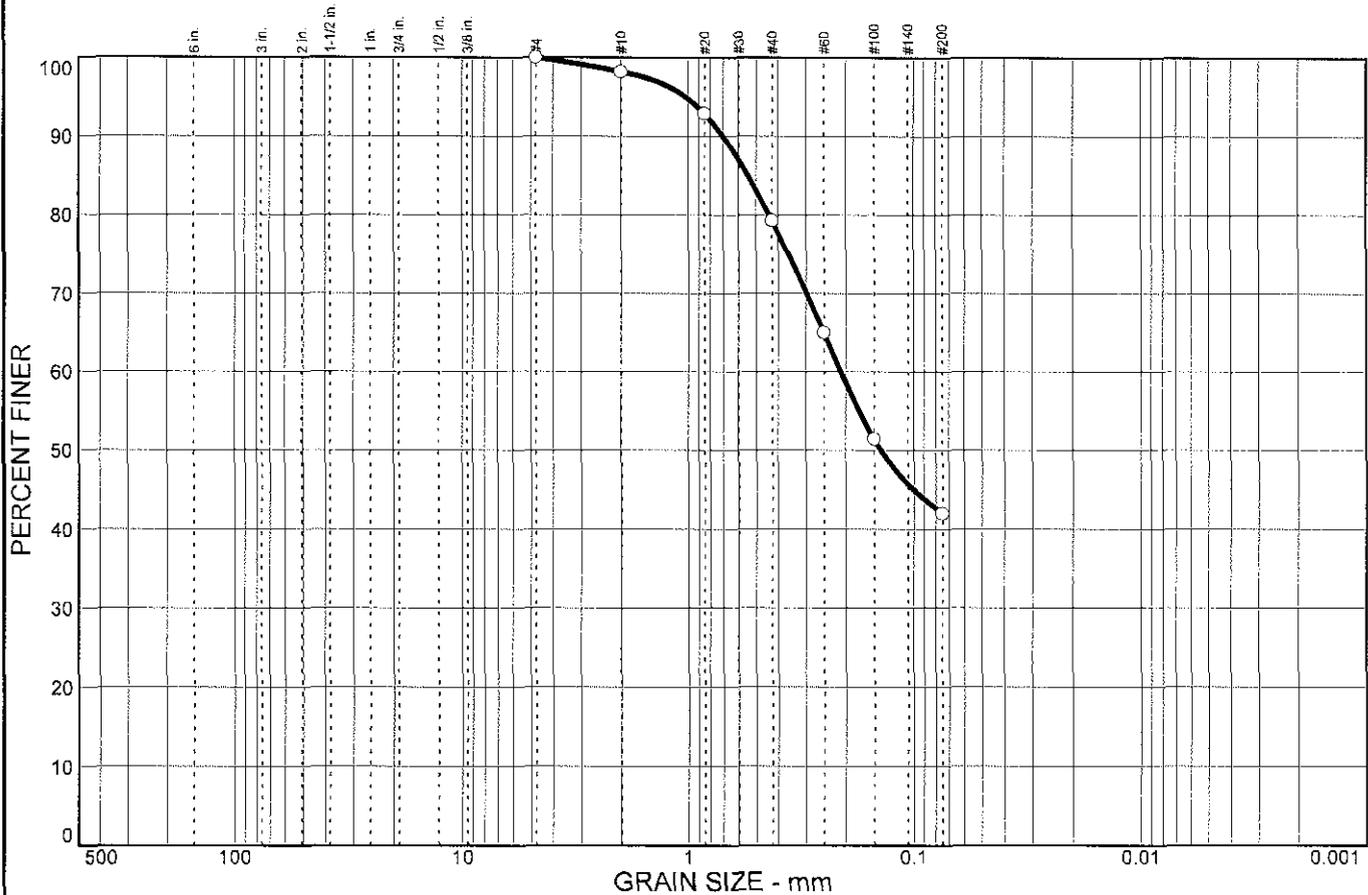
Source of Sample:

Date: 4-17-03
Elev./Depth: 1-2.5'

Geotechnical
and Environmental
Consultants

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0475A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	1.8	18.9	37.3	42.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	98.2		
#20	92.9		
#40	79.3		
#60	65.0		
#100	51.4		
#200	42.0		

Soil Description

Reddish brown clayey m-f SAND some silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.543 D₆₀= 0.210 D₅₀= 0.140
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B-4
Location:

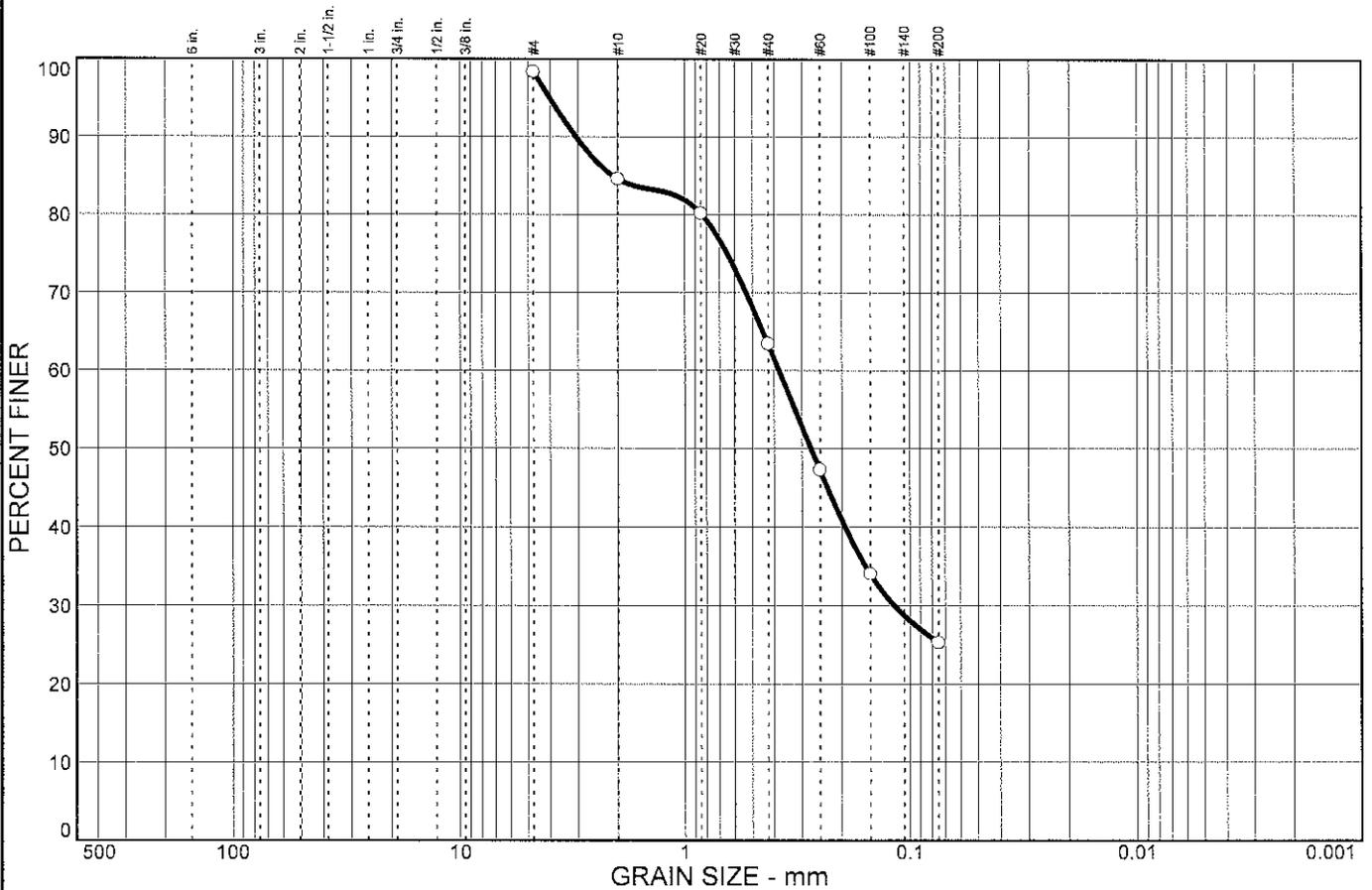
Source of Sample:

Date: 4-17-03
Elev./Depth: 1-2.5'

**Geotechnical
and Environmental
Consultants**

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0475A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			13.8	21.2	38.1	25.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	98.4		
#10	84.6		
#20	80.2		
#40	63.4		
#60	47.3		
#100	34.1		
#200	25.3		

Soil Description

Reddish brown silty m-f SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 2.10 D₆₀= 0.380 D₅₀= 0.274
D₃₀= 0.117 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

* (no specification provided)

Sample No.: B-4
Location:

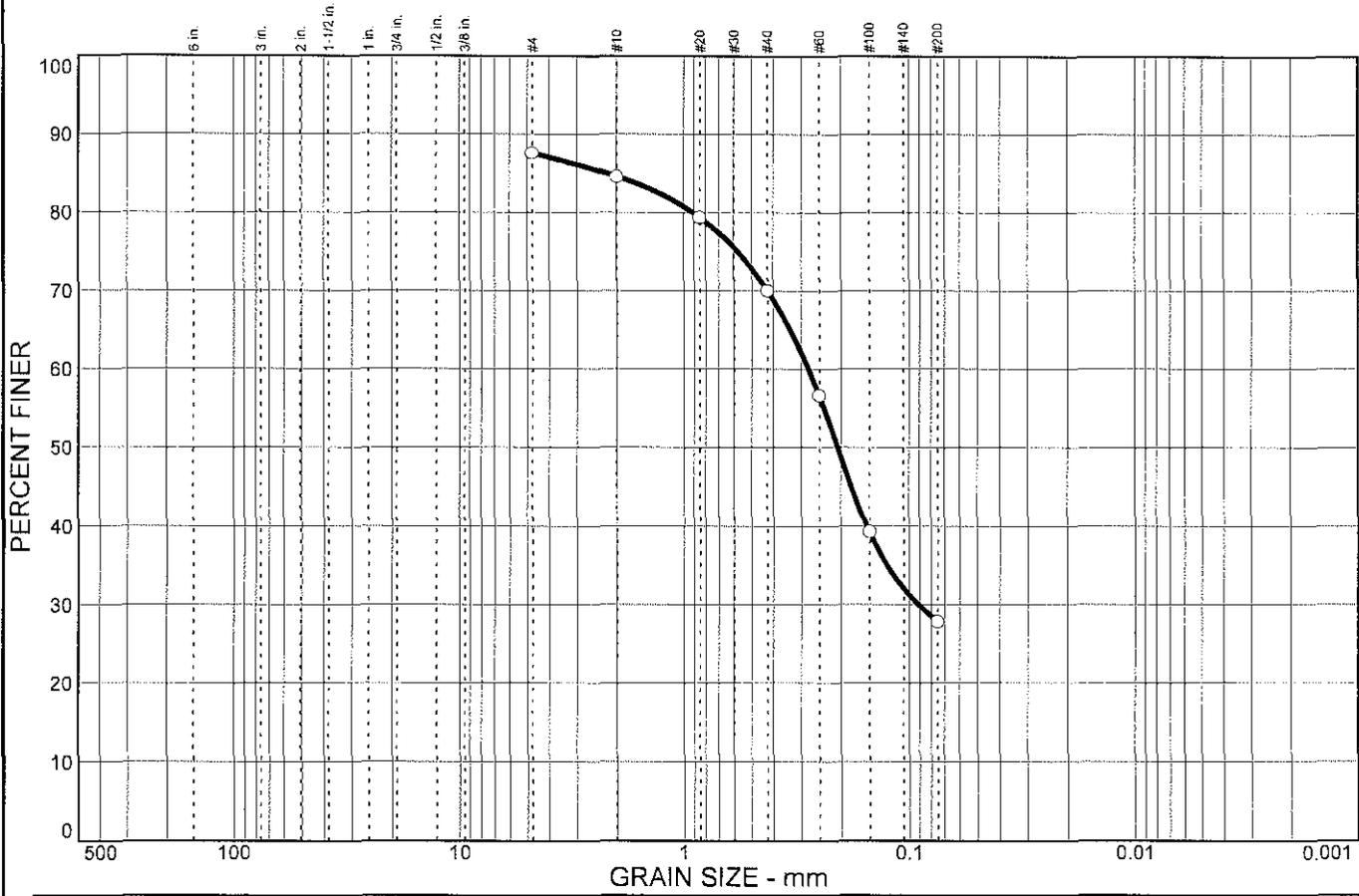
Source of Sample:

Date: 4-17-03
Elev./Depth: 3.5-5'

**Geotechnical
and Environmental
Consultants**

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0475A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			3.0	14.6	42.2	27.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	87.6		
#10	84.6		
#20	79.4		
#40	70.0		
#60	56.6		
#100	39.3		
#200	27.8		

Soil Description

Brown clayey m-f SAND trace of gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 2.21 D₆₀= 0.279 D₅₀= 0.207
 D₃₀= 0.0911 D₁₅= D₁₀=
 C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

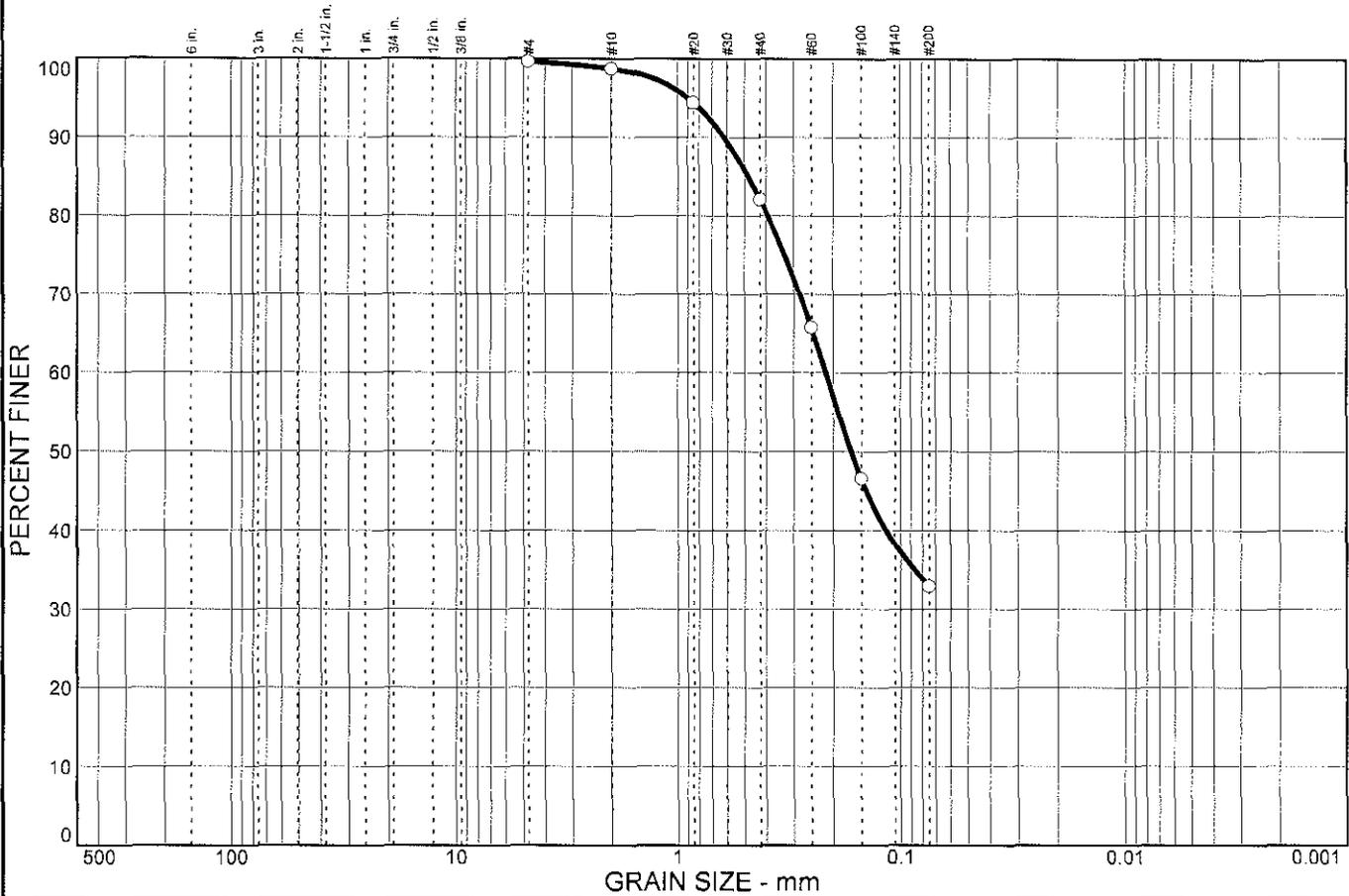
Sample No.: B-5
 Location:

Source of Sample:

Date: 4-17-03
 Elev./Depth: 1-2.5'

<h2 style="margin: 0;">Geotechnical and Environmental Consultants</h2>	Client: Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011, FY-03/04 Robins Air Force Base, Georgia Project No: MCG-03-0475A Plate
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Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			0.9	16.6	49.2	32.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	99.6		
#10	98.7		
#20	94.4		
#40	82.1		
#60	65.7		
#100	46.6		
#200	32.9		

Soil Description

Red brown clayey m-f SAND some silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.481 D₆₀= 0.216 D₅₀= 0.166

D₃₀= D₁₅= D₁₀=

C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B-6
Location:

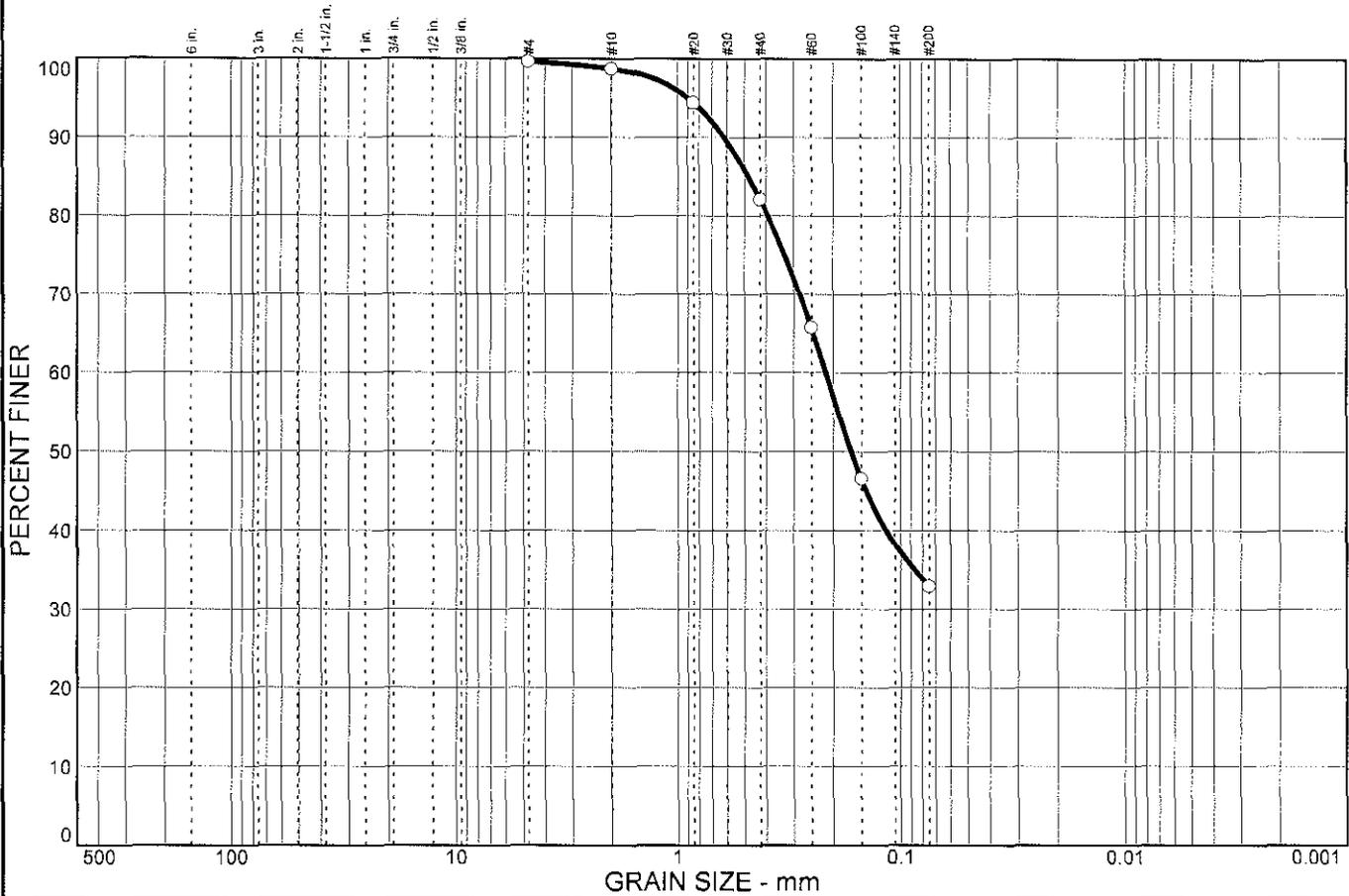
Source of Sample:

Date: 4-17-03
Elev./Depth: 3.5-5'

Geotechnical
and Environmental
Consultants

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0476A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			0.9	16.6	49.2	32.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	99.6		
#10	98.7		
#20	94.4		
#40	82.1		
#60	65.7		
#100	46.6		
#200	32.9		

Soil Description

Red brown clayey m-f SAND some silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.481 D₆₀= 0.216 D₅₀= 0.166

D₃₀= D₁₅= D₁₀=

C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B-6
Location:

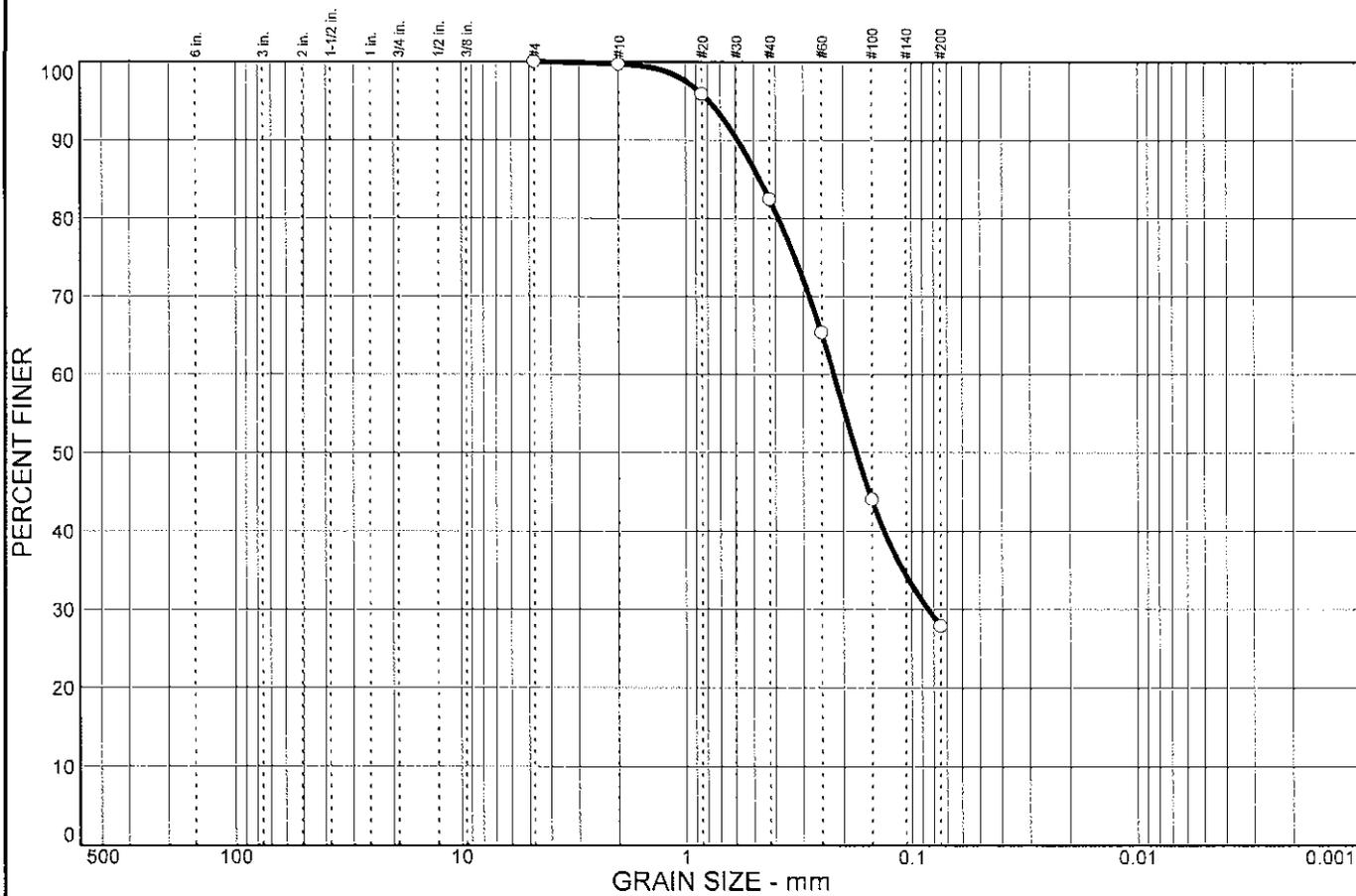
Source of Sample:

Date: 4-17-03
Elev./Depth: 3.5-5'

Geotechnical
and Environmental
Consultants

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0476A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	17.3	54.5	27.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	99.7		
#20	95.9		
#40	82.4		
#60	65.3		
#100	44.1		
#200	27.9		

Soil Description

Brown silty m-f SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.471 D₆₀= 0.220 D₅₀= 0.175
D₃₀= 0.0846 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

* (no specification provided)

Sample No.: B-7
Location:

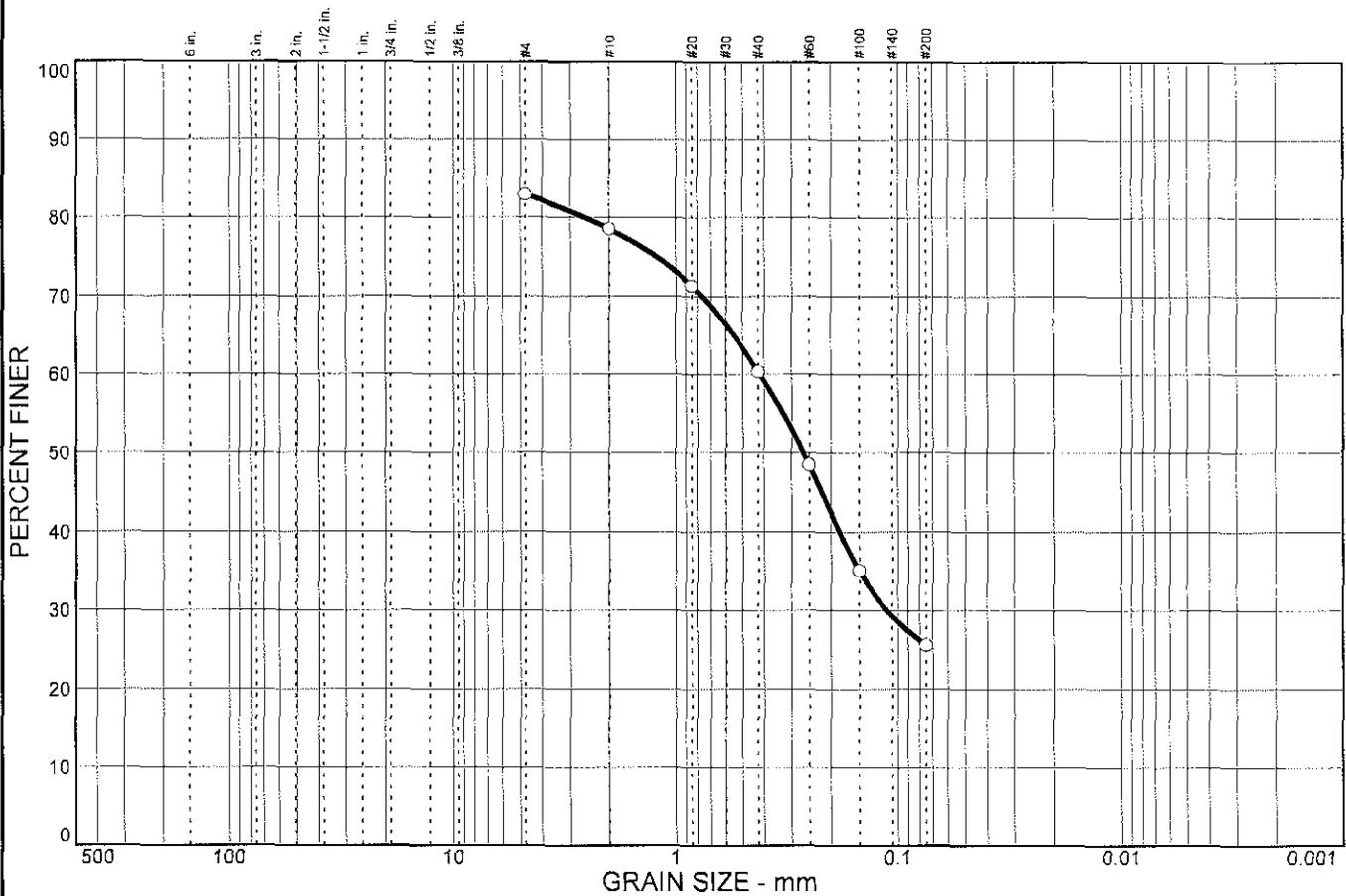
Source of Sample:

Date: 4-17-03
Elev./Depth: 1-2.5'

Geotechnical
and Environmental
Consultants

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0476A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			4.5	18.2	34.7	25.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	83.0		
#10	78.5		
#20	71.3		
#40	60.3		
#60	48.5		
#100	35.1		
#200	25.6		

Soil Description

Brown silty m-f SAND some gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= D₆₀= 0.418 D₅₀= 0.265
D₃₀= 0.112 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

* (no specification provided)

Sample No.: B-8
Location:

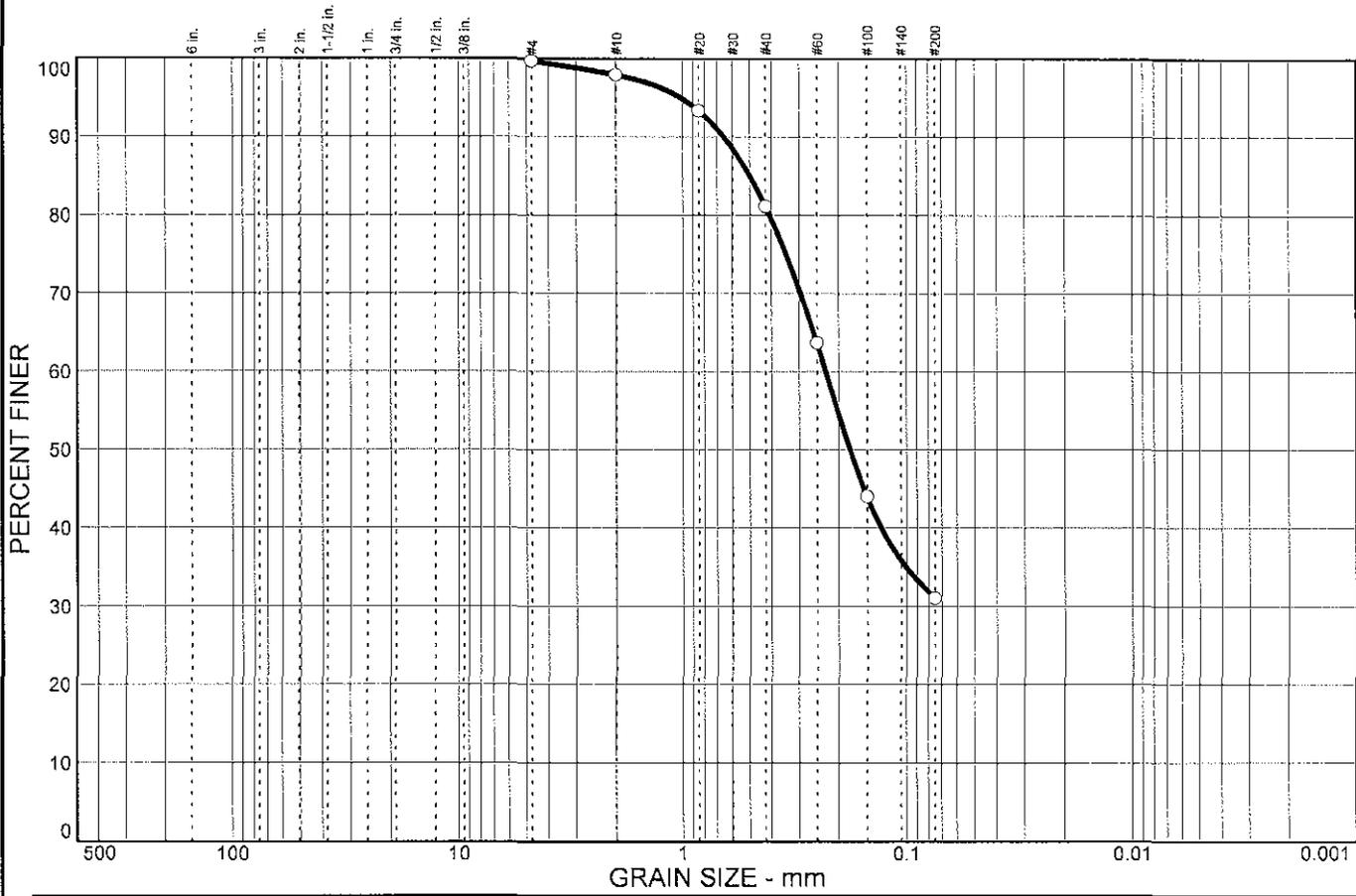
Source of Sample:

Date: 4-17-03
Elev./Depth: 1-2.5'

**Geotechnical
and Environmental
Consultants**

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0476A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			1.8	16.8	50.1	31.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	99.7		
#10	97.9		
#20	93.3		
#40	81.1		
#60	63.6		
#100	44.0		
#200	31.0		

Soil Description

Grayish brown clayey m-f SAND trace of silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.501 D₆₀= 0.229 D₅₀= 0.178
 D₃₀= D₁₅= D₁₀=
 C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B-9
 Location:

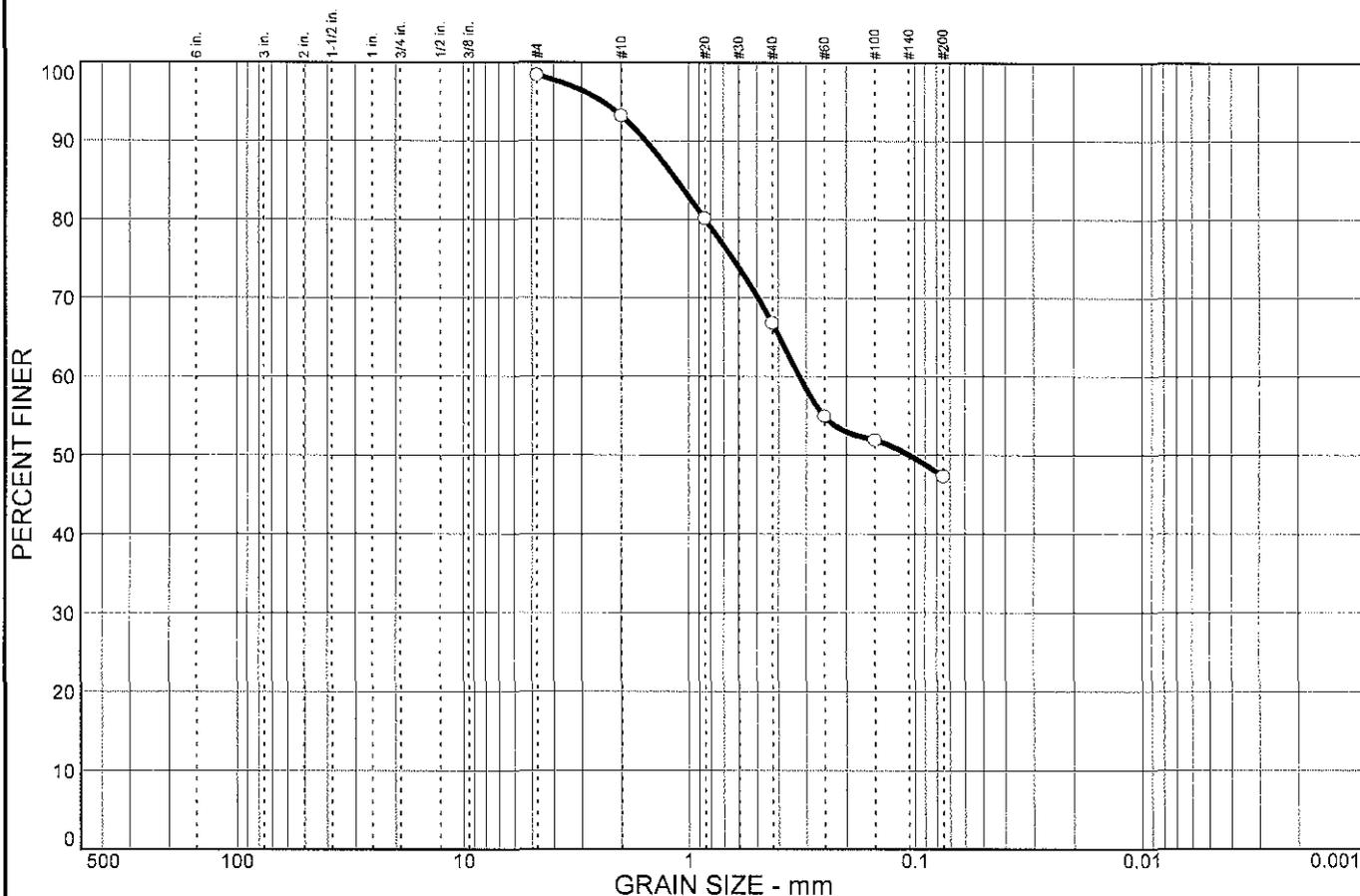
Source of Sample:

Date: 4-17-03
 Elev./Depth: 1-2.5'

**Geotechnical
 and Environmental
 Consultants**

Client:
 Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
 FY-03/04 Robins Air Force Base, Georgia
 Project No: MCG-03-0476A Plate

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
			5.2	26.4	19.5	47.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	98.4		
#10	93.2		
#20	80.1		
#40	66.8		
#60	55.0		
#100	51.9		
#200	47.3		

Soil Description

Brown clayey m-f SAND some silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 1.13 D₆₀= 0.322 D₅₀= 0.106
D₃₀= D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

* (no specification provided)

Sample No.: B-10
Location:

Source of Sample:

Date: 4-17-03
Elev./Depth: 1-2.5'

**Geotechnical
and Environmental
Consultants**

Client:
Project: Corrosion Control Depaint/Paint Facilities L.I.S. 003014/003011,
FY-03/04 Robins Air Force Base, Georgia
Project No: MCG-03-0476A Plate