ATTACHMENT J-0200000-08
EXHIBIT LINE ITEM NUMBERS
N40085-15-R-0806

EXHIBIT E - CLIN 9005

Line Item 0010 IDIQ - 4th Option						
ELIN /Sub ELIN	**Product Name**	**Description**	**Quantity**	**Unit of Issue**	**Unit Price**	**Total**
		Interrupted Power Supply				
E010AA	Unit Priced Labor Work	Provide labor to perform all Unit Priced Labor work subject to the Service Contract Act per the scope and delivery schedule specified in the order.	75	MH		$ -
E010AB	Material Cost	Provide all materials and equipment to perform Unit Priced Labor work per the scope and delivery schedule specified in the order.	25,000	LS	$ 1.00	$ 25,000.00
		Battery Powered Lighting Units				
E010AC	Unit Priced Labor Work	Provide labor to perform all Unit Priced Labor work subject to the Service Contract Act per the scope and delivery schedule specified in the order.	75	MH		$ -
E010AD	Material Cost	Provide all materials and equipment to perform Unit Priced Labor work per the scope and delivery schedule specified in the order.	25,000	LS	$ 1.00	$ 25,000.00
					TOTAL	

AC	Acre
AM	Ampoule
AT	Assortment
AY	Assembly
BA	Ball
BD	Bundle
BE	Bale
BF	Board Foot
BG	Bag
BK	Book
BL	Barrel
BO	Bolt
BQ	Briquet
BR	Bar
BT	Bottle
BX	Box
CA	Cartridge
CB	Carboy
CC	Cubic Centimeter
CD	Cubic Yard
CE	Cone
CF	Cubic Foot
CG	Centigram
CI	Cubic Inch
CK	Cake
CL	Coil
CM	Centimeter
CN	Can
CO	Container
CU	Curie
CY	Cylinder
CZ	Cubic Meter
DA	Days
DC	Decagram
DE	Decimeter
DG	Decigram
DL	Deciliter
DM	Dram
DO	Dollars
DR	Drum
DW	Pennyweight
DZ	Dozen
EA	Each
EN	Each Collection
EX	Exposure
FD	Fold

FR	Frame
FT	Foot
FV	Five
FY	Fifty
GG	Great Gross
GI	Gill
GL	Gallon
GM	Gram
GN	Grain
GP	Group
GR	Gross
HD	Hundred
HF	Hundred Feet
HK	Hank
HP	Hundred Pounds
HR	Hours
HS	Hundred Square Feet
HW	Hundred Weight
HY	Hundred Yards
IN	Inch
JR	Jar
KG	Kilogram
KM	Kilometer
KR	Carat
KT	Kit
LB	Pound
LF	Linear Foot
LG	Length
LH	Labor Hours
LI	Liter
LM	Linear Meter
LO	Lot
LS	Lump Sum
LY	Linear Yard
MC	Thousand Cubic Feet
ME	Meal
MF	Thousand Feet
MG	Milligram
MI	Mile
ML	Milliliter
MM	Millimeter
MO	Months
MR	Meter
MX	Thousand
OT	Outfit
OZ	Ounce

PD	Pad
PG	Package
PI	Pillow
PM	Plate
PR	Pair
PT	Pint
PX	Pellet
PZ	Packet
QT	Quart
RA	Ration
RD	Round
RL	Reel
RM	Ream
RO	Roll
RX	Thousand Rounds
SB	Square Mile
SC	Square Centimeters
SD	Skid
SE	Set
SF	Square Foot
SH	Sheet
SI	Square Inch
SK	Skein
SL	Spool
SM	Square Meter
SO	Shot
SP	Strip
SQ	Square
SX	Stick
SY	Square Yard
TC	Truckload
TD	Twenty-Four
TE	Ten
TF	Twenty-Five
TG	Gross Ton
TN	Ton
TO	Troy Ounce
TS	Thirty-Six
TT	Tablet
TU	Tube
UN	Unit
US	US U.S.P Unit
VI	Vial
WK	Week
YD	Yard
YR	Years

1502000 – Facility Investment Table of Content	
Spec Item	**Title**
1	General Information
1.1	Concept of Operations
2	Management and Administration
2.1	Definitions and Acronyms
2.2	Personnel
2.2.1	Certification, Training, and Licensing
2.3	Special Requirements
2.3.1	Workmanship and Material Standards
2.3.2	Historical Preservation
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3	FFP Work
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3.2.2	POL System Facilities & Distribution Systems
3.2.3	Lighting Inverter Systems
3.3	Integrated Maintenance Program (IMP)
3.3.1	UPS Systems
4	IDIQ Work

1502000 – Facility Investment		
Spec Item	**Title**	**Description**
1	General Information	The Contractor shall provide all labor, management, supervision, tools, material, and equipment required to perform Facility Investment services for equipment and installed equipment and systems at MCB Camp Lejeune, MCAS New River, Jacksonville NC and surrounding area.
1.1	Concept of Operations	The intent of 1502000 Facility Investment is to specify the requirements for Sustainment, Restoration, and Modernization (SRM) sub-functions only. The Facility Investment requirements within this sub-annex primarily consist of infrastructure sustainment and minimal restoration and modernization work. Sustainment is the maintenance and repair necessary to keep an inventory of facilities and other assets in good working order. Restoration and modernization normally consists of major rehabilitation and capital improvements that is accomplished through other Navy programs. Some major repair, minor construction and stand-alone demolition may be accomplished as part of Facility Investment. The Contractor shall perform maintenance and repair for the following buildings: Uninterruptible Power Systems (UPS) Building 3 Building 58 Building 590 Building 1202 Building 1650 Building 1700 Building T13 Building BA167 Building BB180 Building FC436 Building FC441 Building FC443 Building FC444 Building FC446 Building FC447 Building FC467 Building G575 Building G650 Building H1 Building M350 Building TT99 Building RR15 Building RR150 Building RR400 Building RR404 Building RR425 Building RR430 Building RR440 Building RR450 Building RR460 Building SR61 Building 813 Building 818 Building 980

1502000 – Facility Investment		
Spec Item	**Title**	**Description**
		Building 979 Building AS429 Building AS4151 Lighting Inverters Building AS4206 Building AS4207 Building AS4208 Building FC478 Building FC481 Building FC504 Building FC507 Building 1039 Building 24E Building 25 Building 24 Building G644

1502000 – Facility Investment		
Spec Item	**Title**	**Description**
2	Management and Administration	
2.1	Definitions and Acronyms	Definitions and Acronyms are listed in J-1502000-01.
2.2	Personnel	The Contractor shall provide personnel with the qualifications, technical knowledge, experience and skills required for efficient operations within the Facility Investment function.
2.2.1	Certification, Training, and Licensing	All maintenance and repair shall be performed by personnel trained and certified by the Original Equipment Manufacturer. Personnel working with or on electrical or electronic equipment must be trained and certified per NAVFAC MO-200. Personnel performing work in HAZMAT/HAZWASTE **MUST** complete the HAZMAT/HAZWASTE handling course or have a minimum of one year of experience working with HAZMAT/HAZWASTE. All maintenance trade personnel certifying or inspecting repair or maintenance work that does not require an inspector certified by a governing directive shall be qualified at the journeyman level. The Contractor shall submit proof of all certification, training, and licensing requirements per Section F.
2.3	Special Requirements	Safety requirements, operational restrictions, coordination requirements, workmanship, materials, equipment, and tools per Annex 1502000 2.3.2 as required.
2.3.1	Workmanship and Material Standards	The Contractor shall be responsible for maintaining all facilities, systems, and equipment, identified in this technical sub-annex, to a standard that prevents deterioration beyond that which results from normal wear and tear and corrects deficiencies in a timely manner to assure full life expectancy of the facilities, systems, and equipment. Best commercial practices shall be applied in the performance of work. All work shall be completed per approved and accepted industry and equipment manufacturers' standards and shall comply with building and safety codes, applicable activity, local, state, and federal regulations, and other technical requirements identified within this technical sub-annex. Workmanship for maintenance and repair shall include all work necessary to complete facility and system restoration, including touch-up painting and operational checks. Upon completion of work, the Contractor shall ensure all facilities, systems, and equipment are free of missing components or defects which would affect the safety, appearance, or habitability of the facilities and structures or would prevent any electrical, mechanical, plumbing or structural system from functioning in accordance with design intent. Repairs shall be made in accordance with the manufacturers' specifications and guidelines, and standard building codes. The quality of repairs shall meet the applicable standards and shall prevent any malfunction reoccurrences caused by poor workmanship or other contractor inadequacies. The quality of the repaired areas shall be fully compatible with adjacent surfaces or equipment. Except where otherwise specified, replacements shall match existing in dimensions, finish, color, design, and functionality and shall have an appearance similar to the original finished appearance with only minor unobjectionable deterioration resulting from normal use. The Contractor shall not allow debris to spread unnecessarily into adjacent areas nor

1502000 – Facility Investment		
Spec Item	**Title**	**Description**
		accumulate in the work area. All such debris, excess material, and parts shall be cleaned up and removed at the completion of the job and at the end of each day work is in progress. Upon completion of work, any stains and other unsightly marks shall be removed.
2.3.2	Historical Preservation	Buildings and facilities designated as historical sites shall be maintained in accordance with Federal, state, and local historical policies and regulations.
2.4	References and Technical Documents	References and Technical Documents are listed in J-1502000-02.

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
3	FFP Work	The Contractor shall maintain, repair, and alter personal property equipment and installed equipment and systems to ensure they are fully functional and in normal working condition.	The Contractor shall develop, implement, and execute a Service Order, Maintenance Program, Inspection, Testing, and Other Recurring Service Program to maintain and repair facilities, ground structures, personal property equipment, and installed equipment and systems. The Contractor shall maintain all maintenance, repair, and alteration data and warranty records in the technical library and CMMS in accordance with Annex 2. The Contractor shall provide all necessary test instruments, equipment, and tools required to perform maintenance and repair. The current facility inventory for FY is provided in J-1502000-03. Site maps are provided in J-1502000-04.	Personal property, equipment, and installed equipment and systems are in normal working condition and function properly in accordance with specified standards.
3.1	Service Orders	The Contractor shall perform service order work in a timely manner and ensure personal property equipment and installed equipment and systems are restored to a safe, normal working condition and function properly.	The Contractor shall receive service orders in accordance with the work reception requirements in Annex 2. The Contractor shall schedule and perform service orders in a way that minimize disruptions to customers and Government operations. The Contractor shall perform service orders to accomplish any work identified within the entire boundary of the installation and will include a wide variety of work. Descriptions of the classifications of service orders (emergency and routine) are provided in the Definitions and	The service order response and completion time standards specified below are in compliance with NAVFAC Facility Management and Sustainment (FM&S) OSD Work-type Standards. These standards shall not be changed without prior approval by your local Public Works Department (PWD) Facility Management Division (FMD) or FEC FM&S PLC. For Joint Bases, USMC, or non-Navy contracts, these may be tailored to meet

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
			Acronyms in J-1502000-01. In reference to Historical data for number of emergency or routine service orders, in the past, the Contractor has only had one emergency repair and only one on call maintenance repair. The Contractor shall maintain sufficient materials and equipment on hand to support service order work requirements. Lack of availability of material or equipment will not relieve the Contractor from the requirement to complete service order work within the time limits specified. The Government may combine multiple repair requirements received for the same trade in the same building or structure at the same time into one service order as long as the service order threshold is not exceeded. The Contractor shall notify the KO upon identification that the service order will exceed the liability limits specified below in accordance with reporting requirements in Annex 2. If IDIQ work is issued for repairs, the Government will only pay for the portion of labor and/or material that exceeds the service order limits Service orders will not be issued for accomplishment of repairs on systems and equipment maintained under IMP. The Contractor shall submit a monthly summary of completed service orders per Section F.	supported command requirements. Service order work is responded to and completed within the specified time. Personal property equipment and installed equipment and systems are restored to normal working condition, including recertification if applicable. When repair is complete the personal property equipment or installed equipment and system does not present danger to personnel or equipment.
3.1.1	Emergency Service Orders	The Contractor shall respond to emergency	The Contractor shall perform emergency service orders 24	Emergency service orders responded to

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
		service orders and arrest emergent conditions to minimize and mitigate damage to, personal property equipment, and installed equipment and systems and danger to personnel.	hours a day, seven days a week throughout the contract period. The Contractor shall respond to emergency service orders with the appropriate service personnel and equipment to commence work immediately. Emergency service orders are limited to a FFP ceiling of $2,500 in material cost. The Contractor shall remain at the work site until the emergency has been arrested. The emergency service order is complete once the emergency has been arrested. The Government may issue a routine service order or IDIQ task order for the follow-on work required to repair/restore the facility, ground structure, personal property equipment or installed equipment and system.	within one (1) day and a two (2) day completion time receipt of call. Emergency service orders are arrested within 24 hours of receipt of call. Work is continued without interruption until emergent condition is arrested.
3.1.2	Routine Service Orders	The Contractor shall complete routine service orders in a timely manner and ensure facilities, ground structures, personal property equipment, and installed equipment and systems are restored to a safe, normal working condition and function properly.	The Contractor shall perform routine service orders to repair deficiencies and personal property equipment, and installed equipment and systems to normal working condition. Routine service orders are limited to a FFP ceiling of $2,500 in material cost. Performance of routine service orders is not required outside of Government regular working hours.	Routine service orders are completed within twenty-one (21) calendar days.
3.2	Preventive Maintenance (PM) Program	The Contractor shall develop and implement a PM program for personal property equipment, and installed equipment and systems to ensure proper operation, to minimize breakdowns,	The Contractor shall develop and submit a PM program per Section F. The Contractor is fully responsible for and shall perform any repairs, including replacement, discovered during scheduled maintenance work up to a total of $500 per	Maintenance is accomplished in accordance with the Contractor's PM program and work schedule. PM is performed in accordance with manufacturers'

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
		and to maximize useful life.	occurrence in direct material and labor cost under FFP portion of the contract. Incidental repairs work performed under maintenance are not considered a service order. Notification of repair work exceeding the incidental repairs limit shall be submitted to the KO within two hours of identification. Service orders or IDIQ work may be issued for repairs exceeding the incidental repairs limit. The Contractor shall not use breakdown maintenance as part of the PM program. The PM program shall provide an economical approach manufacturers' recommended procedures, OEM standards, and maintenance required to satisfy equipment warranties and keep personal property equipment, and installed equipment and systems in normal working condition. Excessive or repeated system or equipment breakdowns or deficiencies may indicate the need to adjust or modify the Contractor's PM program. These changes will be made at no additional cost to the Government. As part of the PM program, the Contractor shall perform equipment condition assessments to support the Infrastructure Condition Assessment Program (ICAP). The Contractor shall assess and document equipment condition annually. Depending on the type of equipment, as related by Uniformat Classification, the	recommended procedures and OEM standards.

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
			Contractor must assess the condition of one to 12 meters. The description of meter groups for each Uniformat Classification is listed in J-1502000-05. The general direct condition rating guidance is shown in J-1502000-06 and condition rating guidance specific to each meter group is provided in J-1502000-07. The Lighting Inverter Systems checklist is provided in J-1502000-08.	
3.2.1	Auxiliary Generators	The Contractor shall perform maintenance on auxiliary generators to ensure safe, reliable, uninterrupted service.	The Contractor shall comply with NAVFAC MO-912. Maintenance shall include periodic startup, run and load test of all auxiliary generators to ensure operability. Auxiliary generators shall be activated to restore electrical power.	Maintenance is performed in accordance with Contractor's PM program and work schedule. Auxiliary generators provide electrical power to meet the load demand for the duration of a power outage.
3.2.2	POL System Facilities and Distribution Systems	The Contractor shall perform maintenance on POL system facilities and distribution systems to ensure safe, reliable, uninterrupted service.	The Contractor shall maintain POL system facilities and distribution systems in accordance with NAVSUP P-558, UFC 3-460-03, NAVFAC MO-230, and NAVSUPINST 4750.1.	Maintenance is performed in accordance with Contractor's PM program and work schedule. No spills or discharge to environment due to missed or improper maintenance.
3.2.3	Lighting Inverter Systems	The contractor shall perform maintenance on Lighting inverter systems	The contractor shall perform maintenance in accordance with EOM.	Maintenance is performed in accordance with Contractor's PM program and work schedule.
3.3	Integrated Maintenance Program (IMP)	The Contractor shall develop and implement an IMP program for personal property equipment,	The Contractor shall develop and submit an IMP per Section F. The IMP shall include the	Maintenance is performed in accordance with Contractor's IMP and work schedule.

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
		and installed equipment and systems to ensure they are safe, fully functional, and operational.	Contractor's approach for integrated maintenance, including maintenance and inspection tasks, schedules for planned work accomplishment, plan for minimizing occurrence of repair and downtime, process for the identification of the need for repairs, and the process for scheduling and completing repair work. As part of the IMP, the Contractor has full responsibility for any individual occurrence of repair, including replacement, up to and $500 in direct material and labor cost. The Contractor shall, per Annex 2, notify the KO upon identification that the repair will exceed the liability limit listed above. If the estimated cost of the repair exceeds the FFP liability limit, the Government may order the work under the IDIQ section of this contract; however, the Government will only be liable for the amount of cost exceeding the FFP liability limit. The Contractor shall perform all repairs, whether identified as part of their routine IMP accomplishment, QC inspections, or notification from the Government that a breakdown or malfunction has occurred. If the Government identifies a problem or a need for repair, the Government will contact the work reception desk. Service orders will not be issued for accomplishment of repairs on systems and equipment maintained under IMP. Historical data on IMP repairs	When a problem or a need for repair is identified, the Contractor shall respond within two hours and complete the repair within 48 hours. Systems and equipment are maintained and repaired to sustain a fully functional and operable condition in accordance with OEM specifications. When repair is complete the facility, system, or equipment does not present any hazard or danger to personnel.

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
			is provided in J-1502000-10. As part of the PM program, the Contractor shall perform equipment condition assessments to support the Infrastructure Condition Assessment Program (ICAP). The Contractor shall assess and document equipment condition annually. Depending on the type of equipment, as related by Uniformat Classification, the Contractor must assess the condition of one to 12 meters. The description of meter groups for each Uniformat Classification is listed in J-1502000-05. The general direct condition rating guidance is shown in J-1502000-06 and condition rating guidance specific to each meter group is provided in J-1502000-07. Direct condition ratings shall be reported as specified in the Computerized Maintenance Management Systems (CMMS) Spec Item in Annex 0200000. The Contractor shall provide semi-annual report on condition of equipment. The Auxiliary Generator inventory is provided in J-1502000-03. The Lighting Inverter System inventory is provided in J-1502000-03-1. The Contractor shall submit a semi-annual IMP schedule and IMP maintenance and repair status report per Section F.	
3.2.1	Auxiliary Generators	The Contractor shall perform maintenance on auxiliary generators to ensure safe, reliable, uninterrupted service.	The Contractor shall comply with NAVFAC MO-912. Maintenance shall include periodic startup, run and load	Maintenance is performed in accordance with Contractor's PM program and work

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
			test of all auxiliary generators to ensure operability. Auxiliary generators shall be activated to restore electrical power.	schedule. Auxiliary generators provide electrical power to meet the load demand for the duration of a power outage. Auxiliary generators activated to restore electrical power.
3.3.2	Lighting Inverter Systems	The contractor shall perform maintenance on Lighting inverter systems	The contractor shall perform maintenance in accordance with EOM.	Maintenance is performed in accordance with Contractor's PM program and work schedule.
3.4	Inspection, Testing, and Certification Program	The Contractor shall provide inspection, testing, and certification services to ensure they are safe, fully functional, and operational.	The Contractor shall develop an inspection, testing, and certification program The Contractor shall submit an inspection, testing, and certification program summary report per Section F. The Contractor shall submit an inspection, testing and certification schedule and a copy of all the equipment certifications per Section F. The contractor is required to fully specify the requirement of equipment's under the inspection, testing, and certification program per section 3.4. The Contractor is fully responsible for and shall perform any repairs, including replacement, discovered during inspection, testing, and certification work up to $250 per occurrence under PM program or $500 per occurrence under IMP program in direct material and labor cost under FFP portion of the contract. Incidental repairs work performed are not	All certifications are current. Testing, inspection, and certification services performed and completed in accordance with the inspection, testing, and certification program and schedule. Testing, inspection, and certification services performed in accordance with applicable references.

1502000 – Facility Investment				
Spec Item	**Title**	**Performance Objective**	**Related Information**	**Performance Standard**
			considered a service order.	
4	IDIQ Work	IDIQ work may be ordered utilizing DoD EMALL in accordance with Section H or on a task order in accordance with the PROCEDURES FOR ISSUING ORDERS clause in Section G. The order will specify the exact locations and types of work to be accomplished. The period of performance will be specified in each order.	Refer to IDIQ ELINs for task listings, descriptions and related requirements. All periods of performance are measured from issue date of order to acceptance of the work. Performance Standards for IDIQ work will be the same as those in Spec Item 3 where applicable.	

SECTION J
DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS
TABLE OF CONTENTS

ATTACHMENT NUMBER	ATTACHMENT TITLE
J-1502000-01	Definitions and Acronyms
J-1502000-02	References and Technical Documents
J-1502000-03	Facilities Property Inventory
J-1502000-04	Site Maps
J-1502000-05	Meter Group Descriptions
J-1502000-06	General Direct Condition Rating Guidance
J-1502000-07	Meter Group Condition Rating Guidance
J-1502000-08	PM Lighting Systems Checklist

ATTACHMENT J-1502000-01
DEFINITIONS AND ACRONYMS

DEFINITION	DESCRIPTION
EQUIPMENT, INSTALLED	Encompasses building-type equipment, built-in equipment, and large, substantially affixed equipment/property, and is normally acquired and installed as part of a facility project. Installed equipment is normally required to make a facility useful and operable. Removing such equipment would impair the usefulness, safety, or environment of the facility or the facility restoration work required after its removal, is substantial.
EQUIPMENT, PERSONAL PROPERTY	Personal property equipment includes all equipment other than collateral equipment. Such equipment, when acquired and used in a facility or a test apparatus, can be severed and removed aster erection or installation without substantial loss of value or damage thereto or to the premises where installed.
FACILITIES LIFE CYCLE	A facilities life cycle is divided into four stages, requirements (planning and design), acquisition (construction and acceptance), stewardship (operations, maintenance and repair), and disposal.
FACILITIES MAINTENANCE MANAGEMENT	The planning, prioritizing, organizing, controlling, reporting, evaluating, and adjusting of facilities maintenance operations to support the CNO/NAVFAC facilities policy and objectives and satisfy customers' facility needs. Defined by the International Facility Management Association as "the practice of coordinating the physical workplace with the people and work of the organization."
Integrated Maintenance Program (IMP)	IMP is a recurring state-of-the-art, reliability-centered inspection, testing, maintenance and repair program that determines best practices for managing the functions and consequences of failures of facilities equipment and system components. IMP encompasses accepted commercial practices, including reactive, preventive, predictive and proactive maintenance, into one optimal program. The IMP approach gives the Contractor full responsibility to maintain systems and equipment and perform repairs whenever necessary to ensure equipment and systems are operational and remain in a constant state of readiness. Service calls will not be issued for accomplishment of repairs on systems and equipment maintained under IMP.
LIFE-CYCLE COSTS	A form of economic analysis that considers the total cost of owning, operating, and maintaining a building or system over its useful life.
MAINTENANCE, PREVENTIVE	Maintenance designed to increase the availability of the facilities/equipment by reducing the number of unexpected breakdowns or service interruptions. It is any planned maintenance activity that improves equipment life and avoid any unplanned maintenance requirements.
MANAGEMENT INFORMATION SYSTEMS-MAINTENANCE	A computerized system that will provide sufficient information for management to evaluate differences between budgets and actual costs and evaluate performance.
REPAIR	Repair is the restoration of facilities or equipment to such a condition that it may be effectively utilized for its designated purposes by overhaul, reconstruction, or replacement of constituent parts or materials which have deteriorated by action of the elements or usage, and which have not been corrected through maintenance. This term also applies to replacement of the entire unit or system if beyond economical repair. The intent of repair is to have the equipment at normal working condition.
REPLACEMENT	Replacement, as a distinct work element, is confined to a program of planned replacement of a facility or its components. It may be further limited to major components such as air conditioning compressors, furnaces or hot water heaters. Replacement is performed when the equipment has reached the end of its useful life; when it no longer can perform due to degradation of its internal components and repair is no longer cost effective. Included under

	the replacement would be the major rebuilding of any component, since rebuilding also restores performance.
RESTORATION	Restoration of real property to such a condition that it can be used for its intended purpose. Includes repair or replacement work to restore facilities damaged by inadequate sustainment, excessive age, natural disaster, fire, accident or other causes.
SUSTAINMENT	Maintenance and repair activities necessary to keep a typical inventory of facilities in "normal working condition". Sustainment includes regularly scheduled maintenance as well as cyclical major repairs or replacement of components that occur periodically over the expected service life of the facilities.
SERVICE ORDER	Any work required to return a facility, system, equipment or component to normal working condition. Service orders are minor facility problem requests or requests for facilities-related work that are too small to be planned and estimated.
SERVICE ORDER CYCLE	Count down starts when the customer is notified that the work has been accepted to be accomplished to the time when the work chit is turned in by the craftsmen as complete is one complete cycle period for a service order.
SERVICE ORDER, EMERGENCY	Emergency is defined as any facility deficiency that immediately compromises the mission or life, health and safety. Always includes, but is not limited to, failure of any utility, fire protection, environmental control, or security alarm systems.
SERVICE ORDER, ROUTINE	Routine is defined as any deficiency that does not qualify as emergency or urgent, but is needed to maintain the agreed upon facility condition. Maintain means to repair to such a condition that it may be used for its intended purpose and to normal working condition. Does not include improvements.
WEIGHT HANDLING EQUIPMENT (WHE)	Weight handling equipment consists of cranes (e.g., portal cranes, jib cranes), rigging gear (e.g., slings, shackles), and associated equipment (e.g., portable hoists, dynamometers). For purposes of this technical sub-annex, WHE does not include mobile or transportable truck, crawler, and railway mounted locomotive cranes covered in 1700000 BSVE.

ATTACHMENT J-1502000-01
DEFINITIONS AND ACRONYMS

Acronym	Title
BPVC	Boiler and Pressure Vessel Code
HVAC	Heating, Ventilation, and Air Conditioning
RPIE	Real Property Inventory Equipment
SCADA	Supervisory Control And Data Acquisition
SRM	Sustainment, Restoration and Modernization
UFC	Unified Facilities Criteria
UPV	Unfired Pressure Vessel
VTE	Vertical Transportation Equipment

ATTACHMENT J-1502000-01
DEFINITIONS AND ACRONYMS

Reference	Title
OEM STANDARDS	ORIGINAL EQUIPMENT MANUFACTURER (OEM)
NAVFAC MO-200	FACILITIES ENGINEERING-ELECTRICAL EXTERIOR FACILITIES
HAZMAT/HAZWASTE	COMNAVREGMIDLANTINST 6280.1A
(PPE)	PERSONAL PROTECTED EQUIPMENT
(FM&S)	NAVFAC FACILITY MANAGEMENT & SUSTAINMENT
(ICAP)	INFRASTRUCTURE CONDITION ASSESSMENT PROGRAM
NAVFAC MO-912	OPERATION, MAINTENANCE AND REPAIR OF AUXILARY
DOD EMALL	PROCEDURES FOR ISSUING ORDERS

ATTACHMENT J-1502000-02
REFERENCES AND TECHNICAL DOCUMENTS

Reference	Title
NAVFAC P-307	Management of Weight Handling Equipment
NAVFAC MO 200	Facilities Engineering Electrical Exterior Facilities
NAVSEA OP-5	Ammunition and Explosives Safety Ashore
NFPA 70	National Electrical Code
NFPA 70B	Recommended Practice for Electrical Equipment
NFPA 70E	Standard for Electrical Safety in the Workplace
NAVFAC MO 912	Operations Maintenance and Repair of Auxiliary Generators
MUTCD	Manual on Uniform Traffic Control Devices
	Powerware Ferrups FE/QFE Users Guide
	Sure-lite Lifeway II IPS & UPS Series)

ATTACHMENT J-1502000-3

List of UPS Units

Marine Corps Base Locations

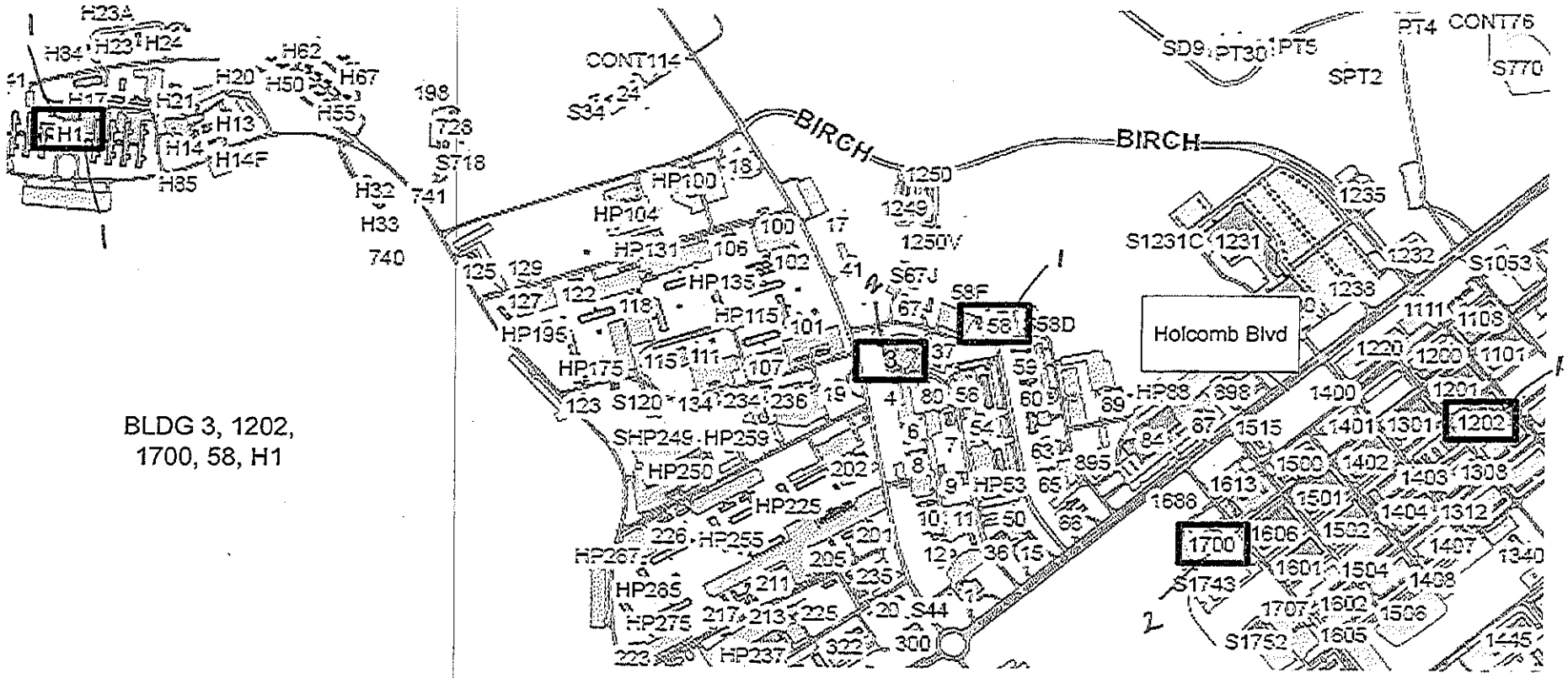
BLDG		Location	Manufacturer	Model	UPS Serial #	Ser# / Batty/FlyWh	Battery Qty.	# of Batteries
1	3	UPS1 Rm 231A	Best	FE1.4KVA	FE1.4K05179		UPS12-130/ 1	1
2	3	UPS2 Rm 230	Best	FD4.3KVA	FD4.307608		UPS12-270/ 4	4
3	58	UPS DISPATCH 911	MGE 50KVA	72-160502-42	B04-12269	04-14002	NPX 150/ 36	36
4	590	UPS Pump Station	Best	FE1.8KVA	FE1.8K05834		UPS12-270/ 4	4
5	1202	UPS Base Maint	Best	F15KVA	C15K-01900		UPS12-310/ 14	14
6	1650	UPS Pump Station	Best	FE500V	BB482FA003		NP7-12T 12V/ 2	2
7	1700	UPS1 Steam Plant Control Rm.	Liebert	NXb20	38-1521	3T00007130	UPS12-170FR/ 48	48
8	1700	UPS2 Steam Plant Control Rm.	Liebert	NXb20	38-1522	3T00007100	UPS12-170FR/ 48	48
9	T13	Tele Comm Compound TLZ Robin	Best	FD10KVA	FD10K003995		UPS12-140/ 10	10
10	T13	Tele Comm Compound TLZ Robin	Powerware	9170+	C661N018KHO21122		ASY-0529/ 6pair	12
11	BA167	UPS Pump Station	Best	FE500KVA	BB13FA019		BAT-0370/ 1	1
12	BB180	UPS Pump Station	Best	FE500KVA	FE500V08286		UPS12-150/ 1	1
13	FC436	UPS WW Area	Best	FE7KVA	FE7K03846		UPS12-270/ 4	4
14	FC441	UPS WW Area	Best	F10KVA-B	B553786		UPS12-270/ 10	10
15	FC443	UPS WW Area	Best	FE1.8KVA	FE1.8K05835		UPS12270/ 4	4
16	FC444	UPS WW Area	Best	FE1.15KVA	FE1.15K08359		UPS12-270/ 1	1
17	FC444	UPS WW Area	Best	FE1.8KVA	FE18K05794		UPS12-270/ 4	4
18	FC446	UPS WW Area	Best	FE2.1KVA	FE2.1K08172		NP18-12/ 4	4
19	FC447	UPS WW Area	Best	FE1.8KVA	FE1.8K05818		UPS12-270/ 4	4
20	FC467	UPS WW Area	Best	FE1.8KVA	FE1.8K05817		UPS12-270/ 4	4
21	G575	UPS Pump Station	Best	FE500VA	FE500V08287		BAT-0053/ 1	1
22	G650	Steam Plant Control Rm.	Best	9170plus	EA405T0999		ASY-0529/ 4pair	8
23	H1	MARSOC 1-H-S/Stow Rm.	Liebert	38SA020COCHJ10	38-2422	3T00008586	UPS12-470FR/ 48	48
24	H1	UPS Spawar 1-G-S bay 20	Active Power	AP0039	20598	Rotary	Flywheel	
25	M350	UPS Pump Station	Best	FE500VA	FE500V0817		UPS12-140/ 1	1
26	TT99	UPS Pump Station	Best	FE500VA	FE500V08284		UPS12-140/ 1	1
27	RR15	UPS Steam Plant	Best	FE700VA	FE700V06719		UPS6-620/ 6	6
28	RR150	UPS Pump Station	Best	FE500VA	FE500V08016		UPS12-140/ 1	1
29	RR400	UPS MARSOC HQ Bldg	Npower	37SAB0A0C6LB00	M09D3R0011	37BP080XPR1BNL	UPS12-490MR/ 40	40
30	RR404	UPS MARSOC INTEL/OPS	NPower	37SA080A0C6LD12	M09D3000020	37BP080XPR1BNL	UPS12-300MR/ 40	40
31	RR425	UPS MARSOC ELEC/COMM MAINT	Npower	37SA080A0C6LD12	M09J300002	37BP080XPR1BNL	UPS12-300MR/ 40	40
32	RR430	UPS MARSOC ELEC RM.	Npower	37SA050A0C6LC94	M09H300007	37BP050XMR1BNL	UPS12-21DMR/ 40	40
33	RR440	MARSOC AID STATION	Liebert 50KVA Npower		M098300006			
34	RR450	UPS MARSOC ACCADEMIC INSTRUC	Npower	37SA050A0C6LC94	M09M30012	37BP050XMR1BNL	UPS12-210MR/ 40	40
35	RR460	UPS PARALOFT	Liebert	37SA050A0C6LC94	M11B300017	M11300029	40	40
36	SR61	UPS Pump Station	Best	FE500VA	BB12FA003		NP7-12T 12V/ 2	2
37	813	UPS Main Gate House	Chloride	EDP 70 50KVA	B272730		UPS12-150MR/ 40	40
38	818	Main Gate Visitors Center	Chloride	LT10XH 10KVA			3	3
39	980	Piney Green Gate House	Chloride	EDP70 50KVA	B291187		UPS12-150MR/ 40	40
40	979	Piney Green Truck Inspection	Chloride	208/120V			3	3
41	AS429	UPS CONTROL TOWER TELE RM	MGE 50KVA	72-160512.22	256761-01		NPX150/ 36	36
42	AS4151	UPS Steam Plant Contol Rm	Liebert	AP321	P21172		MR12-210/ 17	17
43								
44								
45							**TOTAL**	**663**

ATTACHMENT J-1502000-04

SITE MAPS

ATTACHMENT J-1502000-04

SITE MAPS

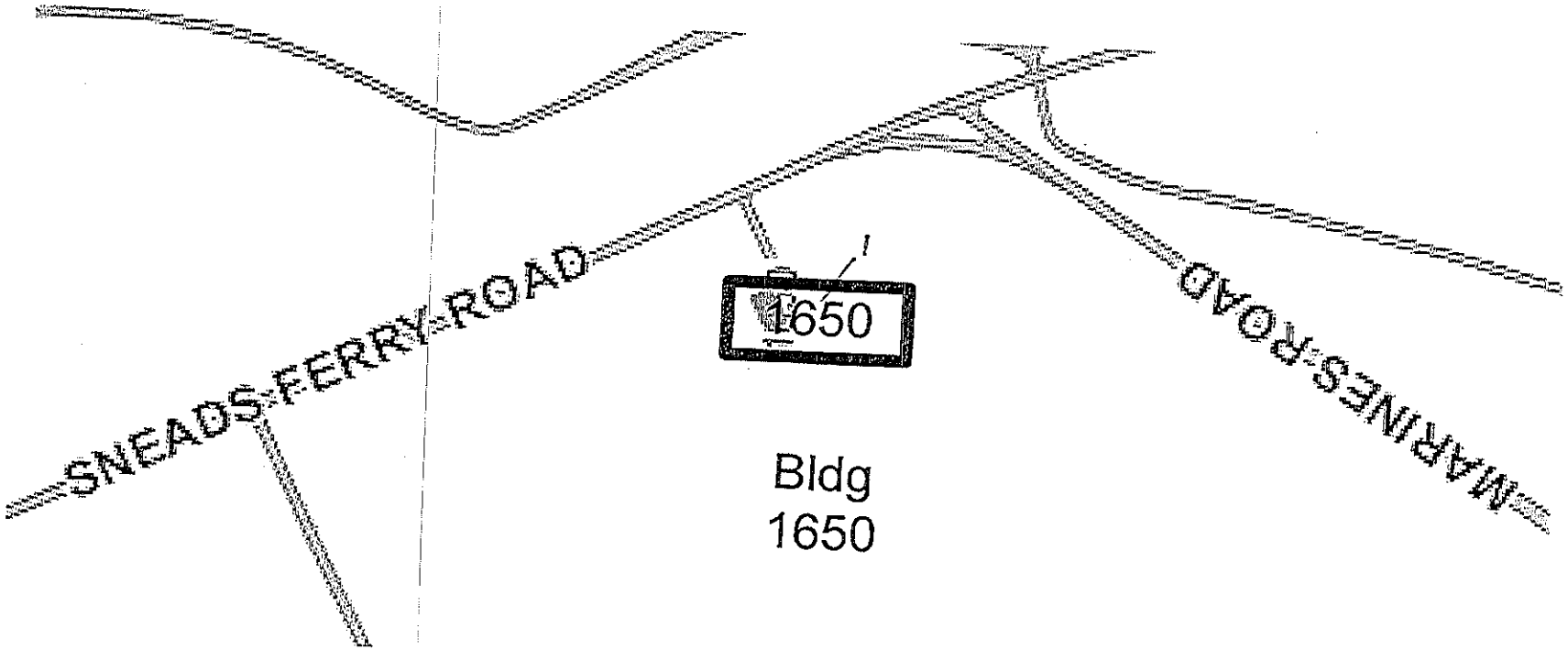


BLDG 3, 1202, 1700, 58, H1

Building 3 PMO office, 1202 Base Maintenance, 1700 Steam Plant, 58 Fire/Safety, H1 Headquarters on Camp Lejeune

ATTACHMENT J-1502000-04

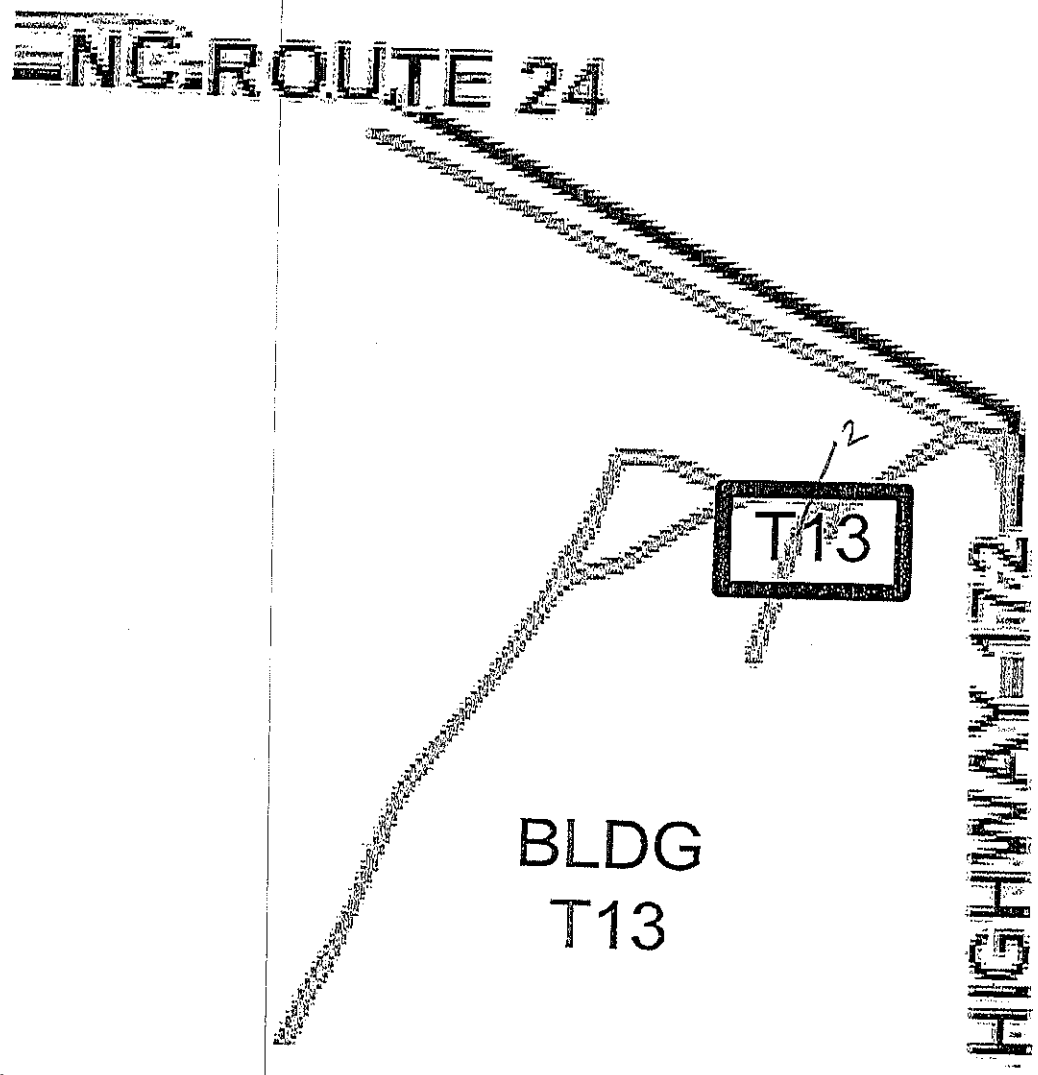
SITE MAPS



Building 1650 Pump Station on Camp Lejeune

ATTACHMENT J-1502000-04

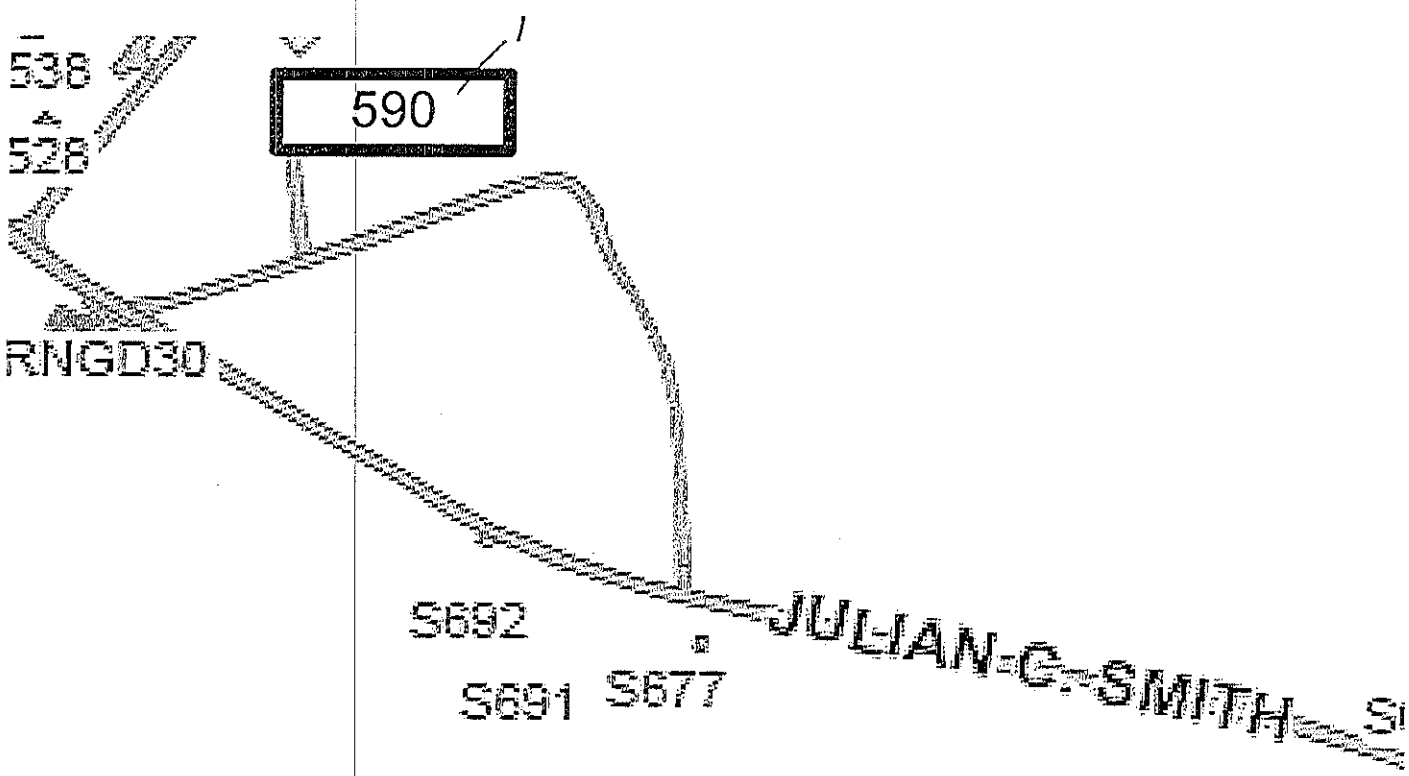
SITE MAPS



Building compound T13 Tele Comm stations for Camp Lejeune

ATTACHMENT J-1502000-04

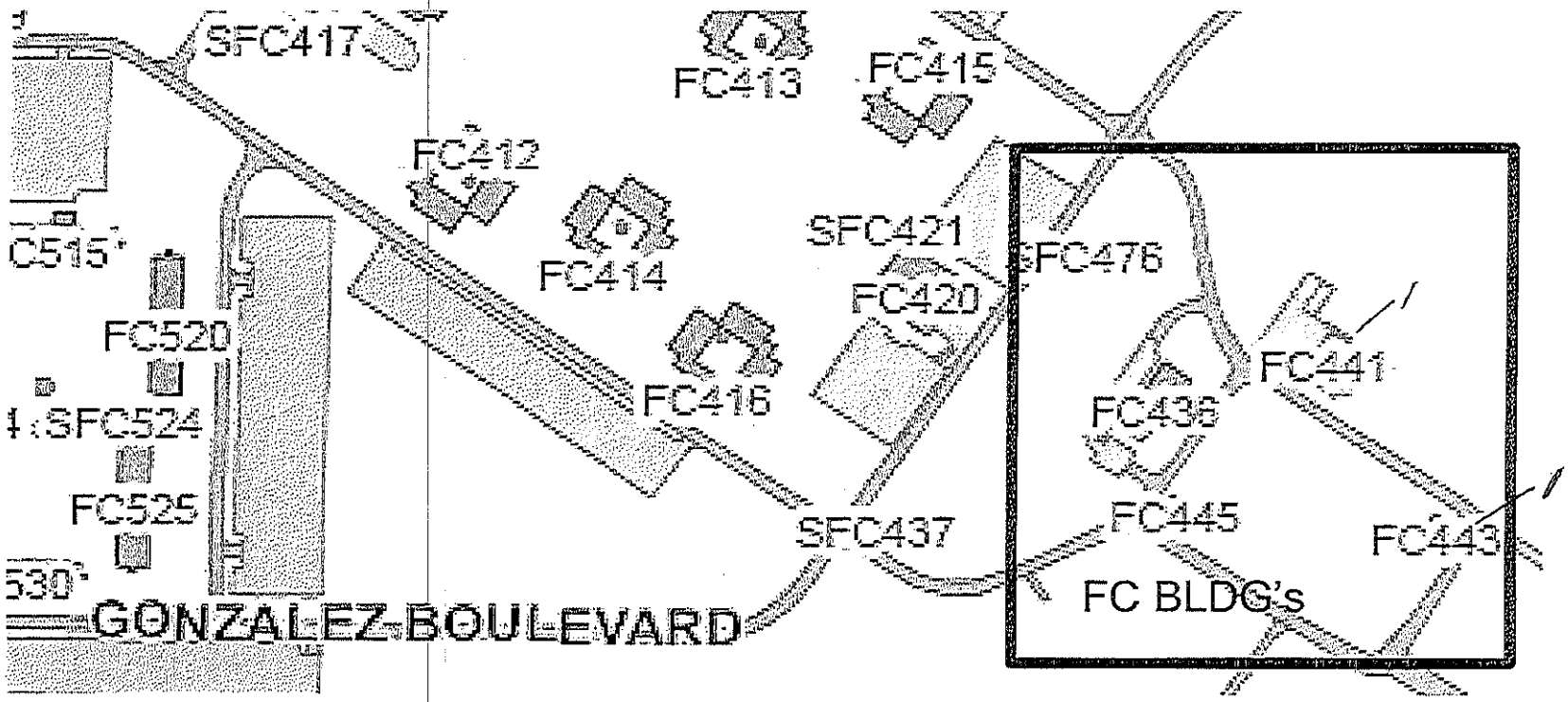
SITE MAPS



Building 590 Pump Station Mainside Camp Lejeune

ATTACHMENT J-1502000-04

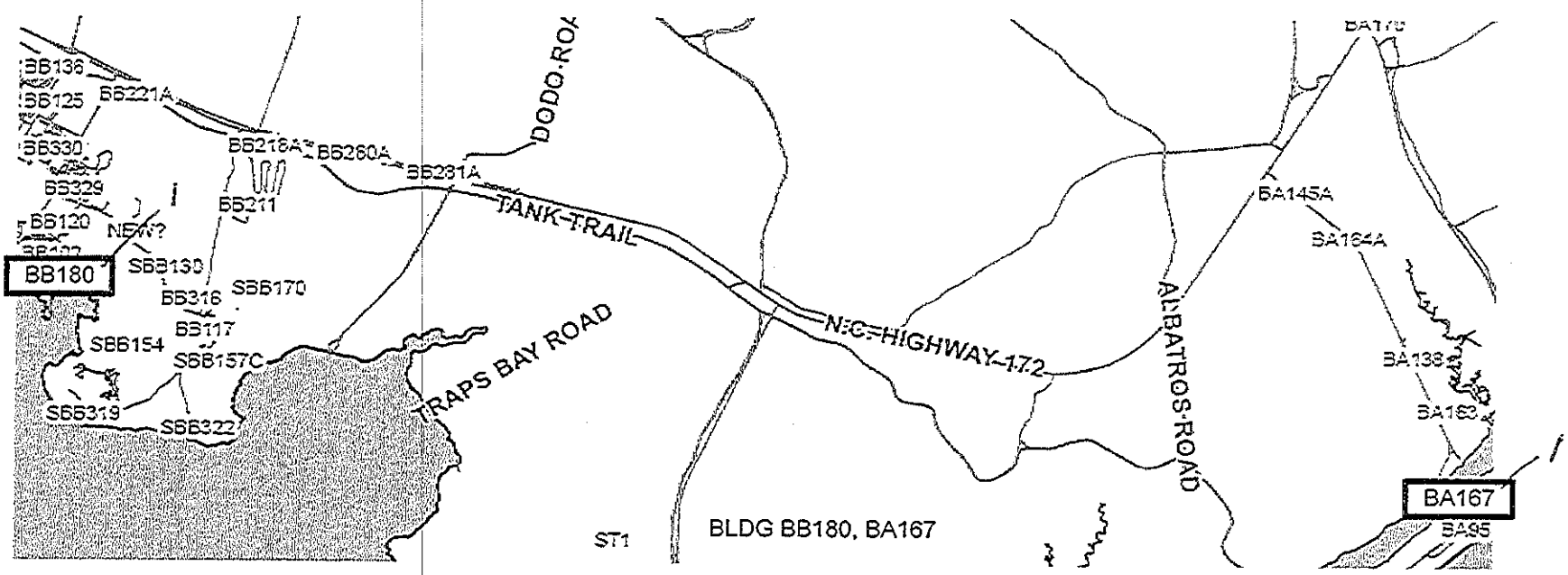
SITE MAPS



Buildings FC436 FC441 FC443 FC444 FC446 FC447 FC467 Mainside Camp
Lejeune Waste Water Treatment Facility

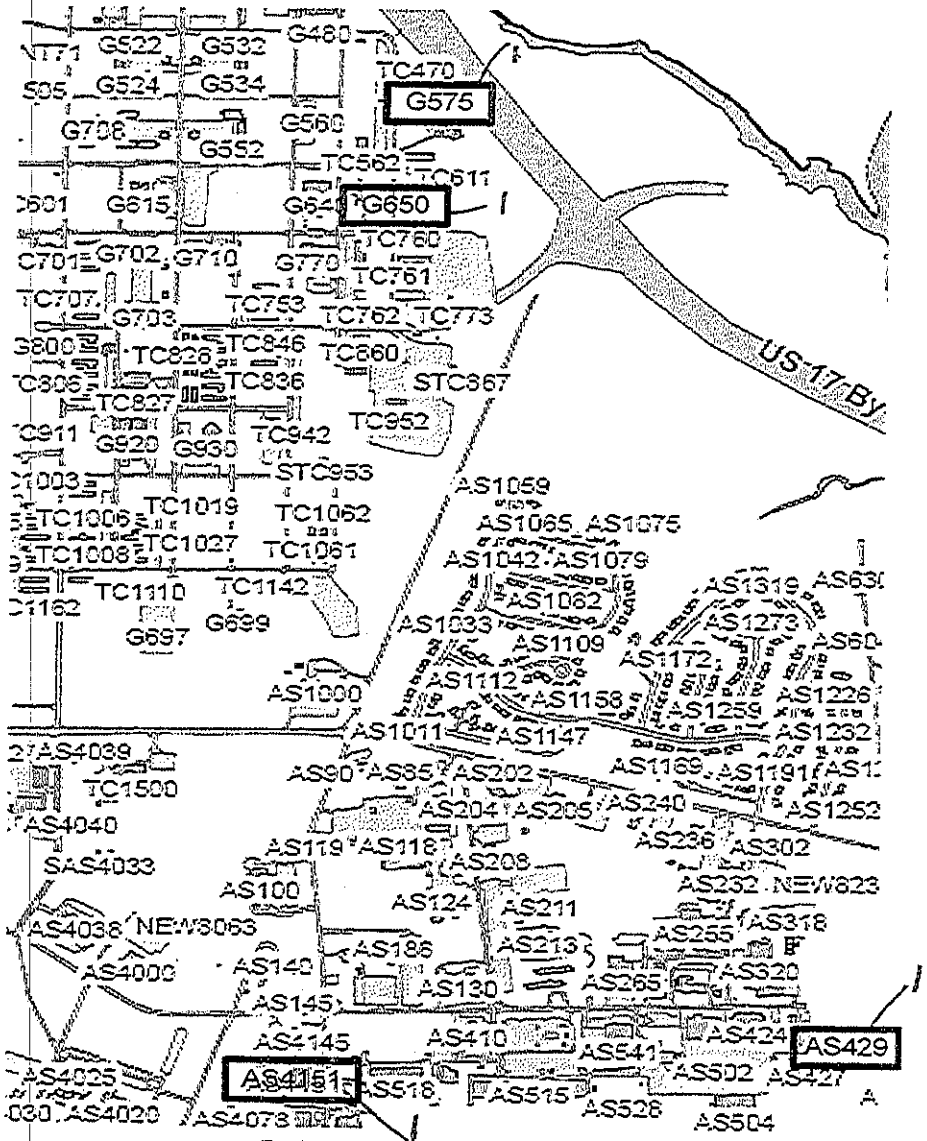
ATTACHMENT J-1502000-04

SITE MAPS



Building BB180 Pump Station Courthouse bay BA167 Pump Station Onslow Beach Area

SITE MAPS

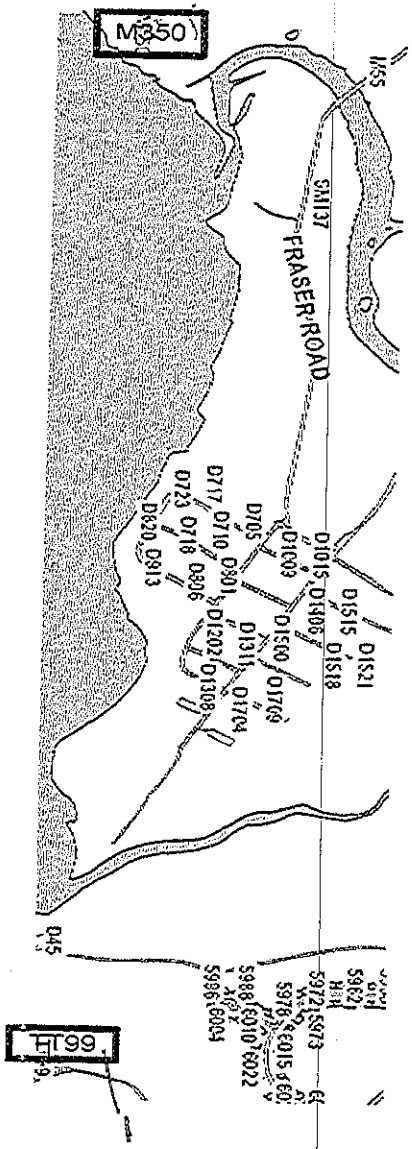


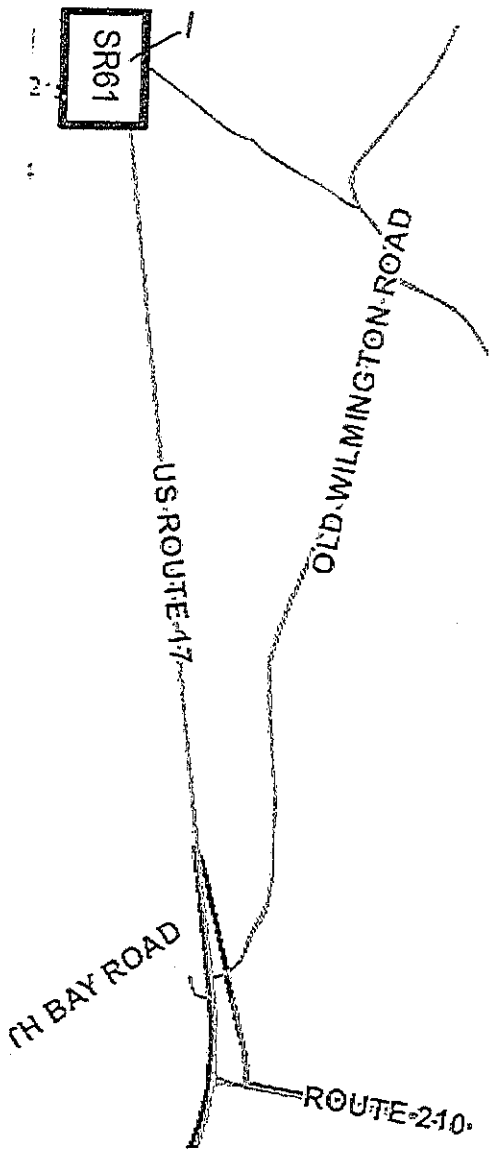
BLDG'S G575, G650, AS429, AS4151

Buildings G575 Pump Station G650 Steam Plant on Camp Geiger, AS429 Air Traffic Control Tower AS4151 Steam Plant on MCAS New River

ATTACHMENT J-1502000-04

SITE MAPS



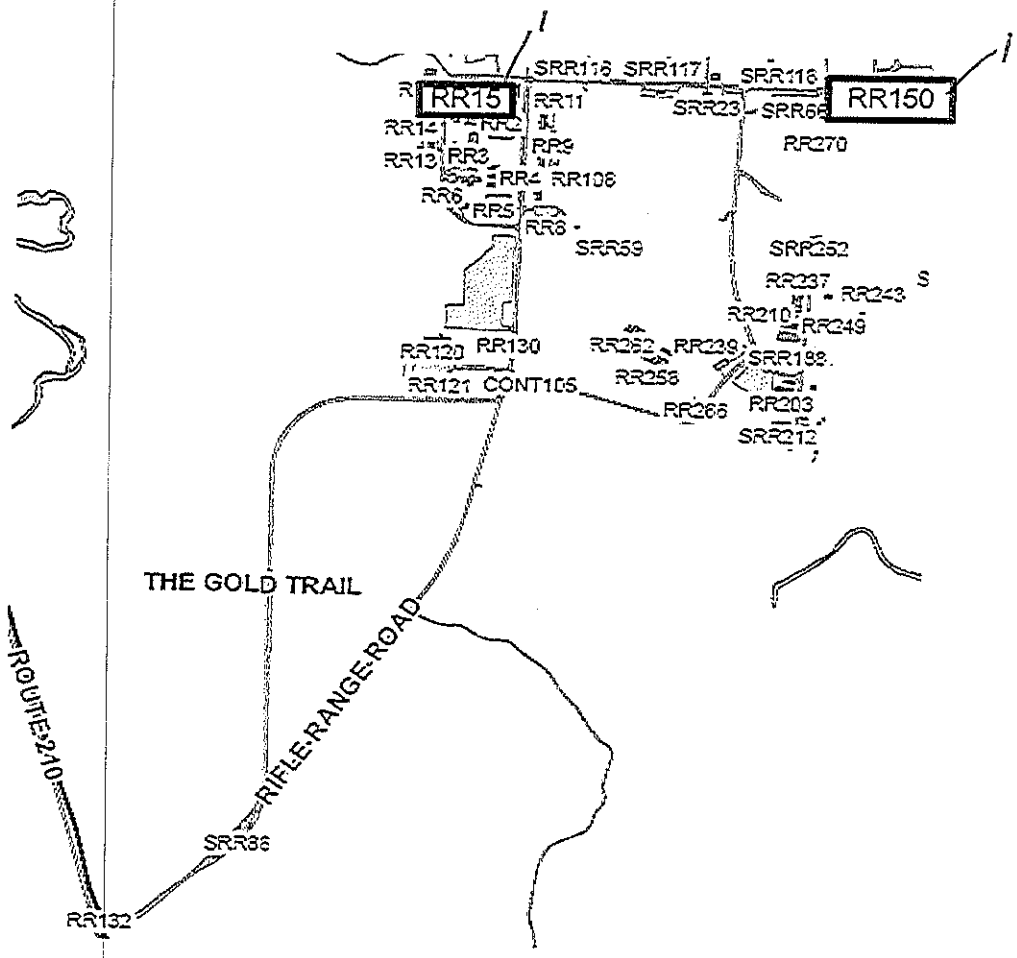


Buildings M350 Pump Station on Camp Johnson, TT99 Pump Station in Tarawa Terrace Housing Area, SR61 Pump Station Sandy Run Area

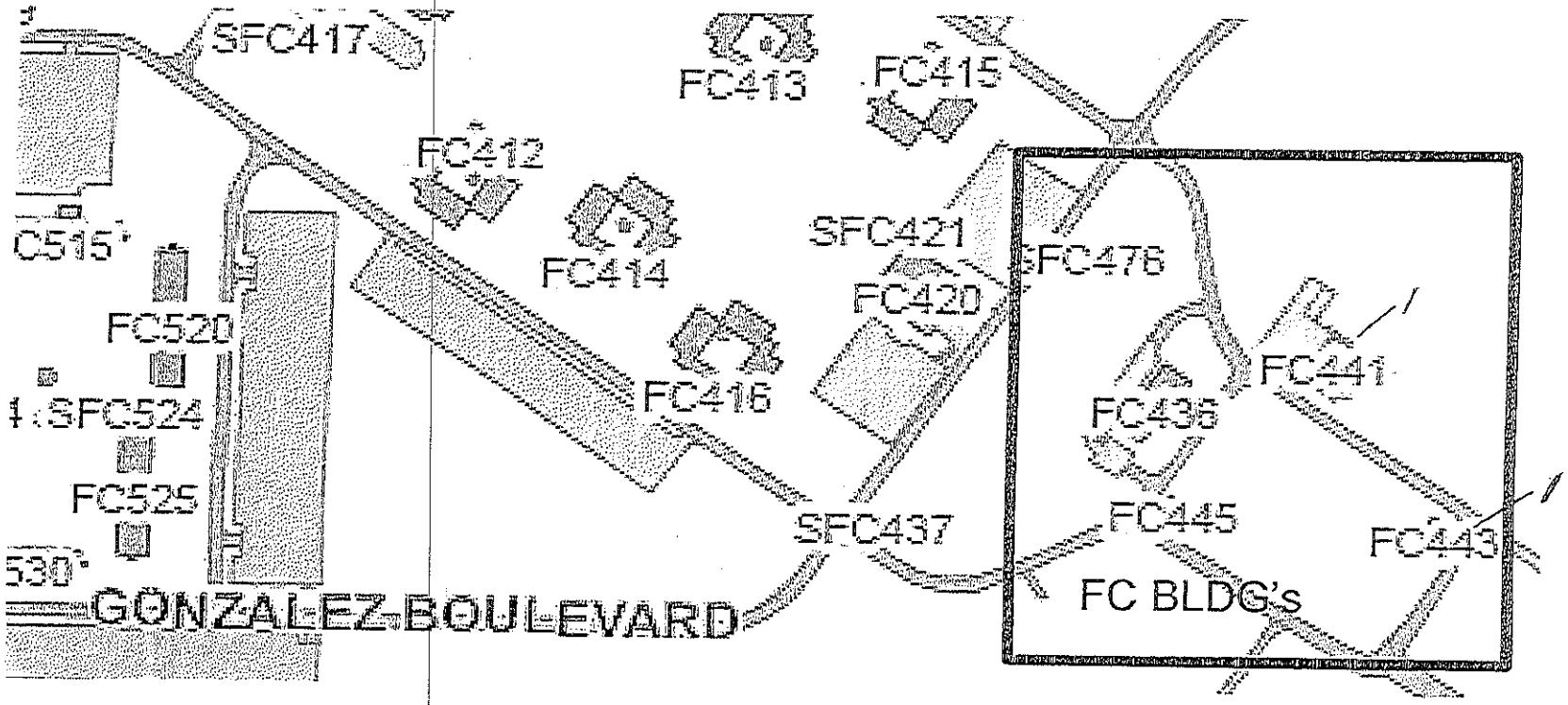
ATTACHMENT J-1502000-04

SITE MAPS

Buildings at Stone Bay Rifle Range RR15 Steam Plant and RR150 Pump Station



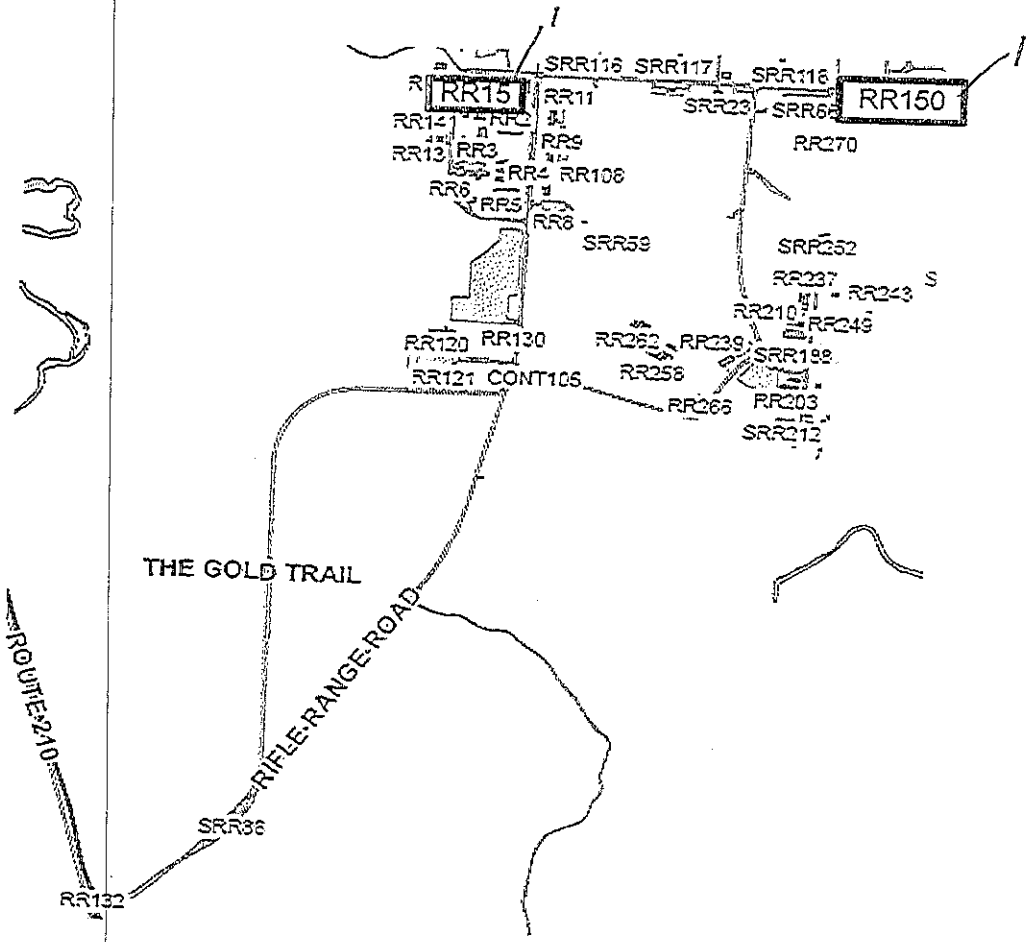
SITE MAPS



Buildings FC436 FC441 FC443 FC444 FC446 FC447 FC467 Mainside Camp
Lejeune Waste Water Treatment Facility

SITE MAPS

Buildings at Stone Bay Rifle Range RR15 Steam Plant and RR150 Pump Station

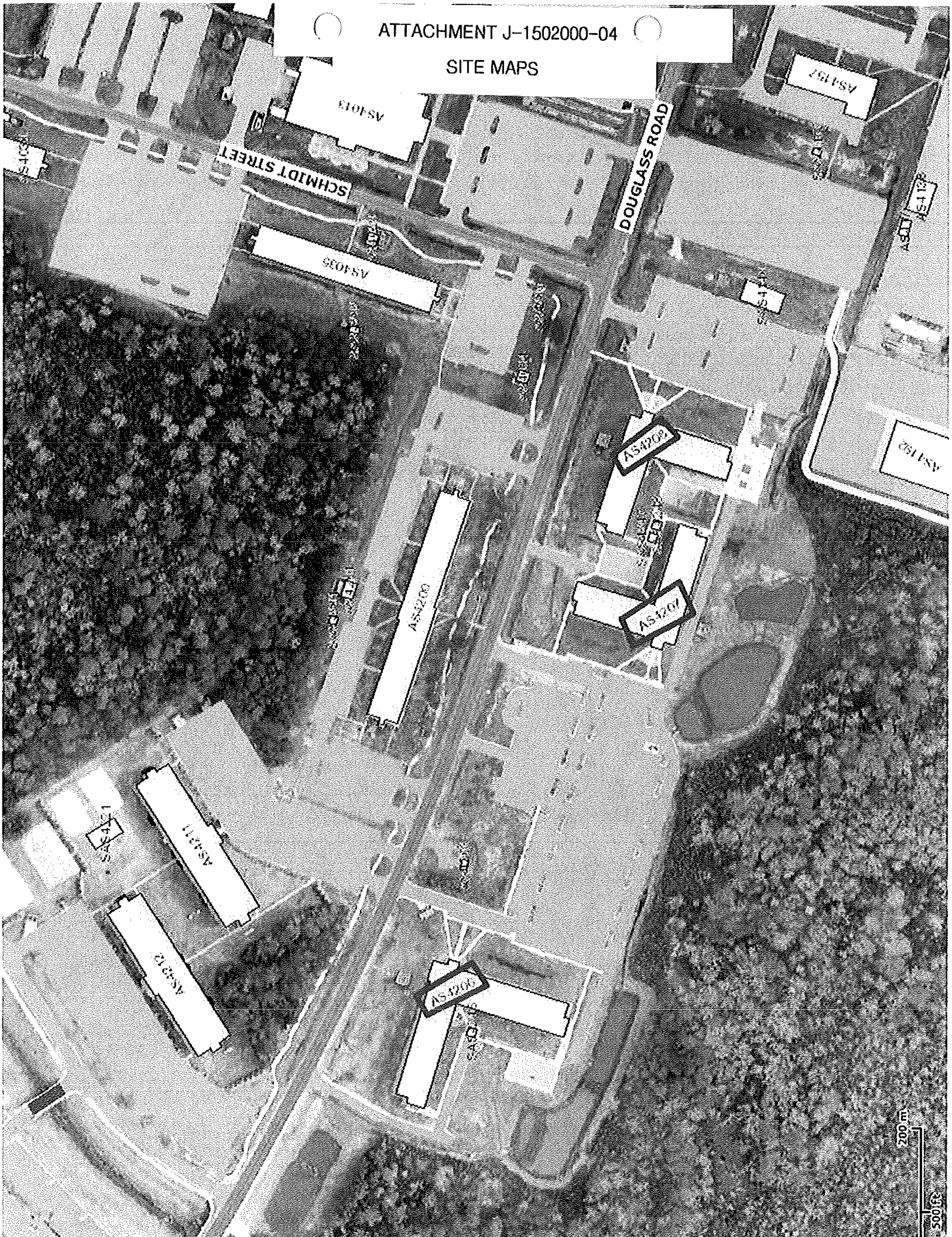


ATTACHMENT J-1502000-04

SITE MAPS

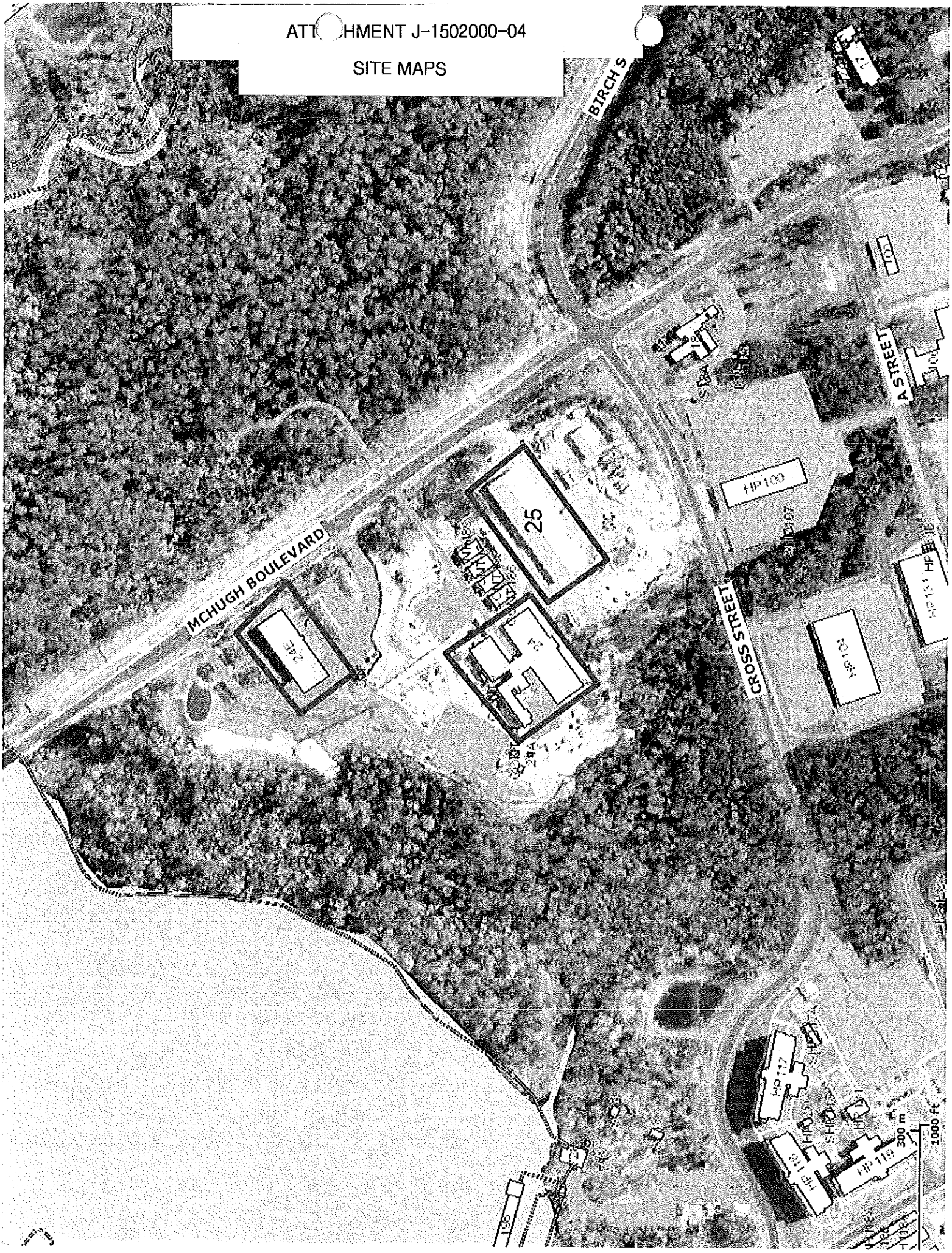
ATTACHMENT J-1502000-04

SITE MAPS



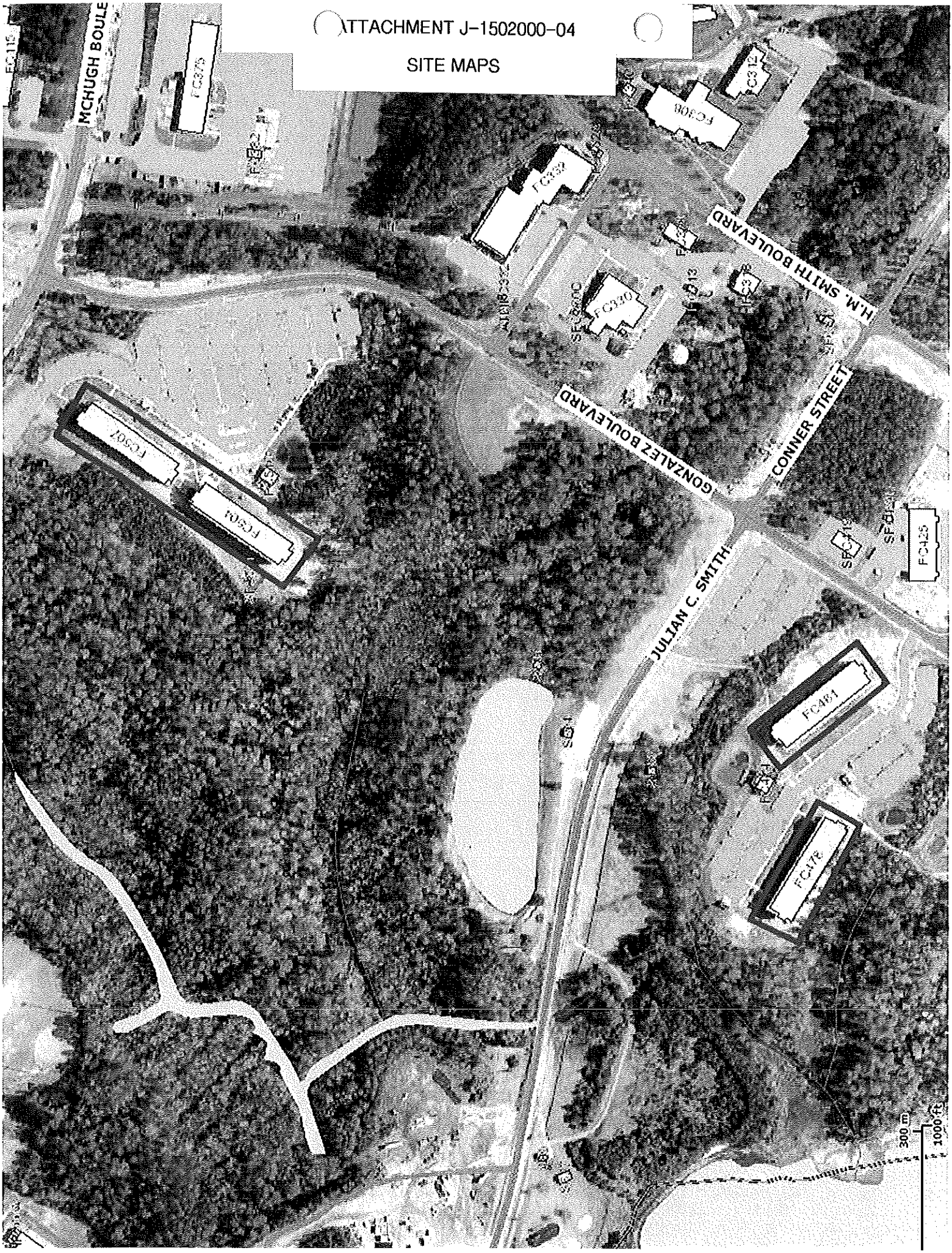
ATTACHMENT J-1502000-04

SITE MAPS



ATTACHMENT J-1502000-04

SITE MAPS



ATTACHMENT J-1502000-04

ATTACHMENT J-1502000-05
METER GROUP DESCRIPTION

D5010240 - Switchgear	CR-5030 - Record the condition of the Batteries
	CR-5055 - Record the condition of the Breakers/Fuses
	CR-5475 - Record the condition of the Interlock
	CR-5500 - Record the condition of the Meters
D5010901 - Transfer Switch	CR-5245 - Record the condition of the Disconnect/Safety Switch
	CR-5295 - Record the condition of the Enclosure
	CR-5405 - Record the condition of the Ground System
D5010902 - Transformer	CR-5070 - Record the condition of the Bushings/Insulators
	CR-5335 - Record the condition of the Fan(s)
	CR-5390 - Record the condition of the Gaskets/Seals
	CR-5405 - Record the condition of the Ground System
	CR-5510 - Record the condition of the Motor Rotor
	CR-5535 - Record the condition of the Pressure Relief Valve
D5010905 - Capacitor Bank	CR-5295 - Record the condition of the Enclosure
	CR-5335 - Record the condition of the Fan(s)
	CR-5405 - Record the condition of the Ground System
	CR-5650 - Record the condition of the Transformer
	CR-5690 - Record the condition of the Wiring/Connections
D5010906 - Panelboards	CR-5055 - Record the condition of the Breakers/Fuses
	CR-5245 - Record the condition of the Disconnect/Safety Switch
	CR-5295 - Record the condition of the Enclosure
	CR-5690 - Record the condition of the Wiring/Connections
D5030910 - Communication/Alarm Systems	CR-5015 - Record the condition of the Annunciator/Control Panel
	CR-5020 - Record the condition of the Audible/Visual Alarm Device
	CR-5030 - Record the condition of the Batteries
	CR-5240 - Record the condition of the Detectors
	CR-5625 - Record the condition of the Switches
	CR-5690 - Record the condition of the Wiring/Connections
D5090210 - Generators	CR-5030 - Record the condition of the Batteries
	CR-5200 - Record the condition of the Controls
	CR-5220 - Record the condition of the Cooling System/Radiator
	CR-5300 - Record the condition of the Engine
	CR-5315 - Record the condition of the Exhaust System
	CR-5385 - Record the condition of the Fuel Tank and Pump
	CR-5400 - Record the condition of the Generator
	CR-5530 - Record the condition of the Piping/Fittings/Valves
	CR-5585 - Record the condition of the Silencer/Muffler
	CR-5690 - Record the condition of the Wiring/Connections
D5090901 - Emergency Lighting	CR-5075 - Record the condition of the Cabinet
	CR-5290 - Record the condition of the Encasement/Deflector
	CR-5480 - Record the condition of the Lamps/Lamp Heads
	CR-5690 - Record the condition of the Wiring/Connections
D5090904 - Uninterruptible Power	CR-5030 - Record the condition of the Batteries

ATTACHMENT J-1502000-05
METER GROUP DESCRIPTION

Supply	CR-5035 - Record the condition of the Battery Rack
	CR-5195 - Record the condition of the Control Panel
	CR-5295 - Record the condition of the Enclosure
	CR-5680 - Record the condition of the UPS Alarm System

ATTACHMENT J-1502000-06
DIRECT CONDITION RATING GUIDANCE

Rating	SRM Needs	Rating Definition
Green (+)	Sustainment consisting of possible preventive maintenance (where applicable).	Entire component-section or component-section sample free of observable or known distress.
Green	Sustainment consisting of possible preventive maintenance (where applicable) and minor repairs (corrective maintenance) to possibly few or some subcomponents.	No component-section or sample serviceability* or reliability* reduction. Some, but not all, minor (non-critical) subcomponents may suffer from slight degradation or few major (critical) subcomponents may suffer from slight degradation.
Green (-)		Slight or no serviceability or reliability reduction overall to the component-section or sample. Some, but not all, minor (non-critical) subcomponents may suffer from minor degradation or more than one major (critical) subcomponent may suffer from slight degradation.
Amber (+)	Sustainment or restoration to any of the following: Minor repairs to several subcomponents; or Significant repair, rehabilitation, or replacement of one or more subcomponents, but not enough to encompass the component-section as a whole; or Combinations thereof.	Component-section or sample serviceability or reliability is degraded, but adequate. A very few, major (critical) subcomponents may suffer from moderate deterioration with perhaps a few minor (non-critical) subcomponents suffering from severe deterioration.
Amber		Component-section or sample serviceability or reliability is definitely impaired. Some, but not a majority, major (critical) subcomponents may suffer from moderate deterioration with perhaps many minor (non-critical) subcomponents suffering from severe deterioration.
Amber (-)		Component-section or sample has significant serviceability or reliability loss. Most subcomponents may suffer from moderate degradation or a few major (critical) subcomponents may suffer from severe degradation.
Red (+)	Sustainment or restoration required consisting of major repair, rehabilitation, or replacement to the component-section as a whole.	Significant serviceability or reliability reduction in component–section or sample. A majority of subcomponents are severely degraded and others may have varying degrees of degradation.
Red		Severe serviceability or reliability reduction to the component-section or sample such that it is barely able to perform. Most subcomponents are severely degraded.
Red (-)		Overall component-section degradation is total. Few, if any, subcomponents salvageable. Complete loss of component-section or sample serviceability.

ATTACHMENT J-1502000-06
DIRECT CONDITION RATING GUIDANCE

Meter	Direct Condition Rating Guidance
CR-5030	GREEN: Batteries provide adequate power to the device. AMBER: None. RED: Batteries do not provide adequate power to the device.
CR-5035	GREEN: Battery Rack shows little to no signs of corrosion or damage. AMBER: Battery Rack shows minimal to noticeable corrosion or damage, but rack is structurally sound RED: Battery Rack shows significant signs of corrosion and/or the rack is significantly damaged, rack is structurally unsound.
CR-5045	GREEN: Pump has minimal damage or corrosion, no unusual noise/vibration, no leaks, and is fully operational AMBER: Pump has noticeable damage or corrosion, slight leaking, unusual noise/vibration, but still operational RED: Pump has significant damage or corrosion, excessive noise/vibration, noticeable leaking, and/or is operationally impaired
CR-5050	GREEN: Brakes have minimal wear AMBER: Brakes have noticeable wear, may exhibit unusual noise, but are still operational RED: Brakes have significant wear, excessive noise, or may not function properly
CR-5055	GREEN: Breaker successfully trips when circuit is overloaded/shorted out. Fuse is not burnt out. AMBER: Breaker has been tripped RED: Breaker does not successfully trip when circuit is overloaded/shorted out. Fuse is burnt out.
CR-5070	GREEN: Busings/Insulators show little to no signs of damage or wear, fully operational AMBER: Bushings/Insulators have noticeable damage or wear, but still operational RED: Busings/Insulators have significant damage or wear, operationally impaired
CR-5075	GREEN: Minimal damage or corrosion on enclosure, fully secured AMBER: Noticeable damage/corrosion to enclosure, may be slightly detached, loose or displaced RED: Significant damage/corrosion to enclosure, loose, displaced, or missing
CR-5195	GREEN: Controls function properly AMBER: Controls need calibrating RED: Controls are damaged and/or not operational
CR-5200	GREEN: Controls function properly AMBER: Controls need calibrating RED: Controls are damaged and/or not operational
CR-5220	GREEN: Radiator has minimal damage and corrosion, Fins are straight allowing good airflow, Flow rate is adequate AMBER: Radiator has noticeable damage and corrosion, some Fins are bent but still allow good airflow though system, Flow rate is less than usual, but still functional RED: Radiator has significant damage and corrosion, many fins are bent and preventing air flow, Flow is blocked or slowed, operationally impaired
CR-5230	GREEN: Crank Case Heater fully functional AMBER: None RED: Crank Case Heater is operationally impaired

ATTACHMENT J-1502000-06
DIRECT CONDITION RATING GUIDANCE

CR-5240	GREEN: Detectors function properly AMBER: None RED: Detectors do not function properly
CR-5245	GREEN: Disconnect/Safety Switch is present and works properly AMBER: None RED: Disconnect/Safety Switch is missing or not functional
CR-5250	GREEN: Door has minimal damage and corrosion, is square and securely fastened AMBER: Door has noticeable damage and corrosion, may be slightly displaced, but does not affect door operation or safety RED: Door has significant damage and/or corrosion, noticeably displaced, and may be structurally unsound or affect door operation
CR-5290	GREEN: Encasement/Deflector has minimal damage or deterioration, and is fully secured AMBER: Encasement/Deflector has noticeable damage or deterioration, some panels may be loose or displaced RED: Encasement/Deflector has significant damage, panels are displaced or missing
CR-5295	GREEN: Minimal damage and corrosion on Enclosure, fully secured AMBER: Noticeable damage/corrosion to Enclosure, Panels may be slightly detached, loose or displaced RED: Significant damage/corrosion to Enclosure, a number of panels are loose, displaced, or missing
CR-5300	GREEN: Engine operates properly, free of excessive noise/vibration, no fluid leaks or overheating AMBER: Engine exhibits unusual noise/vibration, minor fluid leaks but still operational, may require maintenance RED: Engine exhibits excessive noise/vibration, overheating, noticeable fluid leaks, and/or operation is significantly impaired
CR-5315	GREEN: Exhaust has minimal damage and corrosion, suppresses engine noise AMBER: Exhaust has noticeable damage and corrosion, engine noise is louder than usual RED: Exhaust has significant damage and corrosion, engine noise not being surprised
CR-5335	GREEN: Fan blades are in balance and free of damage or corrosion AMBER: Excessive Noise/Vibration, but blades not bent or corroded, fully operational RED: Fans blades are out of balance, significantly bent or corroded, or fan is operationally impaired
CR-5390	GREEN: Gaskets/Seals are fully intact, no leaks AMBER: Gaskets/Seals experience slight leaking RED: Gaskets/Seals show noticeable signs of leaks
CR-5400	GREEN: Generator is fully operational, no excess noise, vibration, or overheating AMBER: Generator exhibits excess noise or vibration, but no overheating and is still operational RED: Generator exhibits excess noise, vibration, or overheating, and/or is operationally impaired

ATTACHMENT J-1502000-06
DIRECT CONDITION RATING GUIDANCE

CR-5405	GREEN: No damage to grounding system, all connections are secure, fully operational AMBER: Slight damage or corrosion, but connections are secure and Grounding System is operational RED: Significant damage or corrosion, loose or missing connections, inadequately grounded
CR-5480	GREEN: Lamps/Lamp Heads have minimal damage or deterioration, are secure, and fully operational AMBER: Lamps/Lamp Heads have noticeable damage or deterioration, some may be loose, but still operational RED: Lamps/Lamp Heads have significant damage or deterioration, a significant number may be loose or missing, and/or operationally impaired
CR-5500	GREEN: Meters show no damage, are fully operational and properly calibrated AMBER: Meter show some damage, are fully functional but may need calibration RED: Meter has significant damage, does not function properly
CR-5510	GREEN: Motor Rotor has minimal wear, fully functional AMBER: Motor Rotor has noticeable signs of wear, still operational RED: Motor Rotor shows excessive signs of wear or damage, operationally impaired
CR-5535	GREEN: Valve has little to no damage or corrosion, is fully operational AMBER: Valve shows some damage or corrosion, valve functions but may require calibration RED: Valve has significant damage or corrosion, is operationally impaired
CR-5560	GREEN: Pump has minimal damage or corrosion, no unusual noise/vibration, no leaks, and is fully operational AMBER: Pump has noticeable damage or corrosion, slight leaking, unusual noise/vibration, but still operational RED: Pump has significant damage or corrosion, excessive noise/vibration, noticeable leaking, and/or is operationally impaired
CR-5575	GREEN: Roof/Wall Sleeve has minimal damage or corrosion, securely fastened, no leaks AMBER: Roof/Wall Sleeve has noticeable damage or corrosion, may be loosely fastened, but still functional RED: Roof/Wall Sleeve has significant damage, corrosion, cracks or holes, and may be loose, missing, or experience leaking
CR-5580	GREEN: Controls function properly AMBER: Controls need calibrating RED: Controls are damaged and/or not operational
CR-5585	GREEN: Silencer/Muffler has minimal damage and corrosion, baffles effectively suppress exhaust noise AMBER: Silencer/Muffler has noticeable damage / corrosion, exhaust noise is unusually loud, still functional RED: Silencer/Muffler has significant damage / corrosion, exhaust noise is excessively loud, not functional

ATTACHMENT J-1502000-06
DIRECT CONDITION RATING GUIDANCE

CR-5625	GREEN: Switches function properly AMBER: None RED: Switches do not function properly
CR-5650	GREEN: Transformer has shows little to no sign of damage, no excessive noise or vibration or overheating, fully operational AMBER: Transformer shows some noticeable damage, and excessive noise or vibration, but no overheating and is operational RED: Transformer shows significant damage, is overheated, and/or is significantly operationally impaired
CR-5655	GREEN: Bearings operate smoothly, no excessive noise or vibration AMBER: Unusual Noise and/or Vibration from the bearings, operation is less than smooth RED: Excessive Noise and/or Vibration from bearings, operation significantly impaired
CR-5680	GREEN: UPS Alarm System functions properly AMBER: None RED: UPS Alarm System does not function properly
CR-5690	GREEN: Wiring is protected/insulated and connections are secure AMBER: Wiring is may be frayed but not exposed, connection are generally secure, no noticeable risk of unintentional grounding RED: Wiring is significantly deteriorated or frayed, connection are loose, or risk of unintentional grounding

ATTACHMENT J-1502000-07
METER GROUP CONDITION RATING GUIDANCE

Meter	Direct Condition Rating Guidance
CR-5030	GREEN: Batteries provide adequate power to the device. AMBER: None. RED: Batteries do not provide adequate power to the device.
CR-5035	GREEN: Battery Rack shows little to no signs of corrosion or damage. AMBER: Battery Rack shows minimal to noticeable corrosion or damage, but rack is structurally sound RED: Battery Rack shows significant signs of corrosion and/or the rack is significantly damaged, rack is structurally unsound.
CR-5045	GREEN: Pump has minimal damage or corrosion, no unusual noise/vibration, no leaks, and is fully operational AMBER: Pump has noticeable damage or corrosion, slight leaking, unusual noise/vibration, but still operational RED: Pump has significant damage or corrosion, excessive noise/vibration, noticeable leaking, and/or is operationally impaired
CR-5050	GREEN: Brakes have minimal wear AMBER: Brakes have noticeable wear, may exhibit unusual noise, but are still operational RED: Brakes have significant wear, excessive noise, or may not function properly
CR-5055	GREEN: Breaker successfully trips when circuit is overloaded/shorted out. Fuse is not burnt out. AMBER: Breaker has been tripped RED: Breaker does not successfully trip when circuit is overloaded/shorted out. Fuse is burnt out.
CR-5070	GREEN: Busings/Insulators show little to no signs of damage or wear, fully operational AMBER: Bushings/Insulators have noticeable damage or wear, but still operational RED: Busings/Insulators have significant damage or wear, operationally impaired
CR-5075	GREEN: Minimal damage or corrosion on enclosure, fully secured AMBER: Noticeable damage/corrosion to enclosure, may be slightly detached, loose or displaced RED: Significant damage/corrosion to enclosure, loose, displaced, or missing
CR-5195	GREEN: Controls function properly AMBER: Controls need calibrating RED: Controls are damaged and/or not operational
CR-5200	GREEN: Controls function properly AMBER: Controls need calibrating RED: Controls are damaged and/or not operational
CR-5220	GREEN: Radiator has minimal damage and corrosion, Fins are straight allowing good airflow, Flow rate is adequate AMBER: Radiator has noticeable damage and corrosion, some Fins are bent but still allow good airflow though system, Flow rate is less than usual, but still functional RED: Radiator has significant damage and corrosion, many fins are bent and preventing air flow, Flow is blocked or slowed, operationally impaired
CR-5230	GREEN: Crank Case Heater fully functional AMBER: None RED: Crank Case Heater is operationally impaired
CR-5240	GREEN: Detectors function properly AMBER: None RED: Detectors do not function properly
CR-5245	GREEN: Disconnect/Safety Switch is present and works properly AMBER: None RED: Disconnect/Safety Switch is missing or not functional
CR-5250	GREEN: Door has minimal damage and corrosion, is square and securely fastened AMBER: Door has noticeable damage and corrosion, may be slightly displaced, but does not affect door operation or safety RED: Door has significant damage and/or corrosion, noticeably displaced, and may be structurally unsound or affect door operation

ATTACHMENT J-1502000-07
METER GROUP CONDITION RATING GUIDANCE

Meter	Direct Condition Rating Guidance
CR-5290	GREEN: Encasement/Deflector has minimal damage or deterioration, and is fully secured AMBER: Encasement/Deflector has noticeable damage or deterioration, some panels may be loose or displaced RED: Encasement/Deflector has significant damage, panels are displaced or missing
CR-5295	GREEN: Minimal damage and corrosion on Enclosure, fully secured AMBER: Noticeable damage/corrosion to Enclosure, Panels may be slightly detached, loose or displaced RED: Significant damage/corrosion to Enclosure, a number of panels are loose, displaced, or missing
CR-5300	GREEN: Engine operates properly, free of excessive noise/vibration, no fluid leaks or overheating AMBER: Engine exhibits unusual noise/vibration, minor fluid leaks but still operational, may require maintenance RED: Engine exhibits excessive noise/vibration, overheating, noticeable fluid leaks, and/or operation is significantly impaired
CR-5315	GREEN: Exhaust has minimal damage and corrosion, suppresses engine noise AMBER: Exhaust has noticeable damage and corrosion, engine noise is louder than usual RED: Exhaust has significant damage and corrosion, engine noise not being surprised
CR-5335	GREEN: Fan blades are in balance and free of damage or corrosion AMBER: Excessive Noise/Vibration, but blades not bent or corroded, fully operational RED: Fans blades are out of balance, significantly bent or corroded, or fan is operationally impaired
CR-5390	GREEN: Gaskets/Seals are fully intact, no leaks AMBER: Gaskets/Seals experience slight leaking RED: Gaskets/Seals show noticeable signs of leaks
CR-5400	GREEN: Generator is fully operational, no excess noise, vibration, or overheating AMBER: Generator exhibits excess noise or vibration, but no overheating and is still operational RED: Generator exhibits excess noise, vibration, or overheating, and/or is operationally impaired
CR-5405	GREEN: No damage to grounding system, all connections are secure, fully operational AMBER: Slight damage or corrosion, but connections are secure and Grounding System is operational RED: Significant damage or corrosion, loose or missing connections, inadequately grounded
CR-5480	GREEN: Lamps/Lamp Heads have minimal damage or deterioration, are secure, and fully operational AMBER: Lamps/Lamp Heads have noticeable damage or deterioration, some may be loose, but still operational RED: Lamps/Lamp Heads have significant damage or deterioration, a significant number may be loose or missing, and/or operationally impaired
CR-5500	GREEN: Meters show no damage, are fully operational and properly calibrated AMBER: Meter show some damage, are fully functional but may need calibration RED: Meter has significant damage, does not function properly
CR-5510	GREEN: Motor Rotor has minimal wear, fully functional AMBER: Motor Rotor has noticeable signs of wear, still operational RED: Motor Rotor shows excessive signs of wear or damage, operationally impaired
CR-5535	GREEN: Valve has little to no damage or corrosion, is fully operational AMBER: Valve shows some damage or corrosion, valve functions but may require calibration RED: Valve has significant damage or corrosion, is operationally impaired
CR-5560	GREEN: Pump has minimal damage or corrosion, no unusual noise/vibration, no leaks, and is fully operational AMBER: Pump has noticeable damage or corrosion, slight leaking, unusual noise/vibration, but still operational RED: Pump has significant damage or corrosion, excessive noise/vibration, noticeable leaking, and/or is operationally impaired

ATTACHMENT J-1502000-07
METER GROUP CONDITION RATING GUIDANCE

Meter	Direct Condition Rating Guidance
CR-5575	GREEN: Roof/Wall Sleeve has minimal damage or corrosion, securely fastened, no leaks AMBER: Roof/Wall Sleeve has noticeable damage or corrosion, may be loosely fastened, but still functional RED: Roof/Wall Sleeve has significant damage, corrosion, cracks or holes, and may be loose, missing, or experience leaking
CR-5580	GREEN: Controls function properly AMBER: Controls need calibrating RED: Controls are damaged and/or not operational
CR-5585	GREEN: Silencer/Muffler has minimal damage and corrosion, baffles effectively suppress exhaust noise AMBER: Silencer/Muffler has noticeable damage / corrosion, exhaust noise is unusually loud, still functional RED: Silencer/Muffler has significant damage / corrosion, exhaust noise is excessively loud, not functional
CR-5625	GREEN: Switches function properly AMBER: None RED: Switches do not function properly
CR-5650	GREEN: Transformer has shown little to no sign of damage, no excessive noise or vibration or overheating, fully operational AMBER: Transformer shows some noticeable damage, and excessive noise or vibration, but no overheating and is operational RED: Transformer shows significant damage, is overheated, and/or is significantly operationally impaired
CR-5655	GREEN: Bearings operate smoothly, no excessive noise or vibration AMBER: Unusual Noise and/or Vibration from the bearings, operation is less than smooth RED: Excessive Noise and/or Vibration from bearings, operation significantly impaired
CR-5680	GREEN: UPS Alarm System functions properly AMBER: None RED: UPS Alarm System does not function properly
CR-5690	GREEN: Wiring is protected/insulated and connections are secure AMBER: Wiring is may be frayed but not exposed, connection are generally secure, no noticeable risk of unintentional grounding RED: Wiring is significantly deteriorated or frayed, connection are loose, or risk of unintentional grounding

ATTACHMENT J-1502000-08
PM LIGHTING INVERTERS SYSTEMS CHECKLIST

Building Number:_____

Serial Number: _____

		SEMI ANNUAL	ANNUAL
1	Transfer between battery and utility power to exercise unit operation for one hour duration.	**x**	**x**
2	Inspect batteries for corrosion, connection integrity, discoloration, swelling, leakage and or cracks. Inspect wiring excessive heat, discolorized or cracked insulation. Clean and or torque per manufacture as required.	**x**	**x**
3	Inspect air vents and clean as necessary. Verify operation of fans and clean excessive dust from inside cabinet and fans. Check for burnt, frayed, broken or loose connections.	x	x
4	Confirm output voltage, operations and display functions .	x	x
5	Perform complete visual inspection of all internally mounted equipment including subassemblies, wiring harnesses, contactors, power supplies and all major components.	x	x
6	Tighten loose terminals and fasteners to electrical power connections.	x	x
7	Check and record alarm logs.	x	x
8	Inspect circuit breaker input and output conections for connection and excessive heat or discoloration.	x	x
9	Inspect interior and exterior housing compartments for cleanliness, loose and or missing hardware.	x	x
10	Report and identify deficiencies to program management.	x	x
11	Refer to the Operations manual for references.		

Mechanic:

Date:

Comments: