

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1 CONTRACT ID CODE		PAGE OF PAGES 1 5	
2 AMENDMENT/MODIFICATION NO 0801		3 EFFECTIVE DATE 10/11/2018		4 REQUISITION/PURCHASE REQ NO		5 PROJECT NO (If applicable) 5030925	
6 ISSUED BY CONTRACTING OFFICER USCG, CIVIL ENGINEERING UNIT MIAMI 15608 SW 117 TH AVENUE MIAMI, FL 33177-1630 ATTN: LESIA K. MOYER		CODE		7 ADMINISTERED BY (If other than Item 6) SAME AS BLOCK 6.		CODE	
8 NAME AND ADDRESS OF CONTRACTOR (NO STREET, COUNTY, STATE AND ZIP CODE) RMACC Region 8 Phase Two Offerors				9A AMENDMENT OF SOLICITATION NO HSCG50-16-R-CGRMAC		9B DATED (SEE ITEM 11) 07/20/2016	
CODE				FACILITY CODE		10A. MODIFICATION OF CONTRACT/ORDER NO	
						10B DATED (SEE ITEM 13)	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☒ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input type="checkbox"/>	A THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A
<input type="checkbox"/>	B THE ABOVE REFERENCED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14 PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF
<input type="checkbox"/>	D OTHER (SPECIFY TYPE OF MODIFICATION AND AUTHORITY)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.


14 DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

**DEPARTMENT OF HOMELAND SECURITY REGIONAL MULTIPLE AWARD CONSTRUCTION CONTRACT
REGION 8 (PHASE TWO)**

Amendment 0801 to solicitation number HSCG50-16-R-CGRMAC is issued to those offerors invited to Phase Two only and is for the design build seed project entitled "Major M&R Multi-Purpose Building" at Station Grand Isle located in Grand Isle, LA. This is the Request for Proposal for Phase Two for Region 8.

The Government intends to award no more than ten contracts. The offeror determined to provide the overall best value to the Government will also receive award of the seed project as the first task order.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) LESIA K. MOYER SENIOR FIELD CONTRACTING OFFICER		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LESIA K. MOYER SENIOR FIELD CONTRACTING OFFICER	
15B CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C DATE SIGNED	16B UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C DATE SIGNED 10/11/18

Request for Proposal Number HSCG50-16-R-CGRMAC
Amendment 0801
11 October 2018

AMENDMENT 0801d AUTHORIZES THE FOLLOWING:

1. Phase II Proposals are due by 2:00 p.m. Eastern Standard Time on November 19, 2018. Submit proposal to the following address:
USCG Civil Engineering Unit
Attn: Odalys McGee
15608 SW 117th Avenue
Miami, FL 33177
2. Pre-proposal inquiries or Request for Information (RFIs) must be submitted via email to Lesia.K.Moyer@uscg.mil and Odalys.McGee@uscg.mil by November 5, 2018. We cannot guarantee an answer if pre-proposal inquiries or RFIs are received after November 5, 2018.
3. An offer guarantee is required. FAR 52.228-1 (c) The amount of the bid guarantee shall be 20% of the bid price.
4. The Magnitude of Construction for the seed project "Major M&R Multi-Purpose Building" is between \$1,000,000.00 to \$5,000,000.00 in accordance with FAR 36.204.
5. Section F, Deliveries or Performance -Paragraph F.1, FAR 52.211-12 COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK (APR 1984): **Add** the following sentence to the end of the paragraph: "The performance period for the Seed Project, Major M&R Multi-Purpose Building, is 360 calendar days. The time stated for completion shall include final cleanup of the premises. Issuance of the task order constitutes notice to proceed. On site work cannot commence until an acceptable design, bonding, insurance certificate and construction schedule are received and approved by the Contracting Officer.
6. Section F, Deliveries or Performance - Paragraph F.7, FAIR OPPORTUNITY: **Add** the following sentence to the end of the paragraph: "The Government will not reimburse contractors for costs associated with fair opportunity proposals."
7. Section I, Contract Clauses- FAR Clause 52.232-27, PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (MAY 2014): *Clause is updated to 52.232-27, PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (JAN 2017)* and **Add** the following: "52.232-27 (a)(1)(i)(A) is changed. The due date for making such payments shall be 30 days after receipt of the payment request by the designated billing office."
8. Section J, List of Attachments: **Add** Attachment J.4, Specification PSN 5030925 (Major M&R Multi-Purpose Building, Station Grand Isle, LA) with all reference drawings and reference documents, which accompanies this amendment.

9. Section J, List of Attachments: **Add** Attachment J.5, General Decision Number: LA180042 01/12/18 LA42 with Modification No. 01 dated 01/12/18, for the Seed Project, Major M&R Multi-Purpose Building, Station Grand Isle, LA, which accompanies this amendment.
10. Section L, Instructions, Conditions and Notices to Offerors-Paragraph L.5, Proposal Submission Instructions: **Add** the following verbiage to the end of the paragraph: “SPECIFIC PHASE TWO INSTRUCTIONS: Offerors are to submit proposals entitled "RMAcc Phase II Proposal" in three ring binders. Submit Phase II proposals in TWO separate volumes: Volume 1, TECHNICAL APPROACH, and Volume 2, PRICE PROPOSAL.

Volume 1: Submit information in Volume 1 that addresses Technical Solution Seed Project / Means and Methods (a) Means & Methods (Subfactor), (b) Schedule & Design Approach (Subfactor). Provide one original hard copy and three hard copies in binders.

Volume 2: Submit information in Volume 2 to include signed “Solicitation, Offer, and Award” (SF1442) with acknowledgement of all amendments (Phase 1 and Phase 2), data to support price proposal and bid guarantee. Provide one original hard copy in a binder. Price for “Seed Project” will be provided in block 17 of the SF 1442.

11. Section L, Instructions, Conditions and Notices to Offerors - Paragraph L.6 52.236-27 Site Visit (Construction) (FEB 1995): **Add** 52.236-27 Site Visit (Construction) (FEB 1995) Alternate I (FEB 1995):
- (a) The clauses at 52.236-2, Differing Site Conditions (APR 1984), and 52.236-3, Site Investigations and Conditions Affecting the Work (APR 1984), will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.
 - (b) An organized site visit will be scheduled for the Seed Project at a later date and time via an upcoming Amendment.
12. Section M, Evaluation Factors for Award: Paragraph M.2, Evaluation Factors, **Add** the following to the end of M.2.

Evaluation Factors for Award:**Phase Two:****Factor 5 – Technical Solution Seed Project / Means and Methods****Means & Methods (Subfactor)**

In a narrative not to exceed five pages discuss your technical approach and provide any project specific documentation that is related to the seed project requirement and outlined in the Phase Two RFP. Describe your execution strategy for the project including the Design-Build delivery as well as your approach to the specific project site, geographic area and other challenges. Identify the designer and the designer's qualification and experience. Discuss the rationale for selection of the designer. Discuss key personnel and their significant credentials and experience.

Basis of Evaluation:

The Government will evaluate the Offeror's technical approach to determine the manner and extent to which the Offeror's proposed solutions, approaches, and resources provide an executable strategy for successful performance. Narratives that distinguish key project risks and outline approaches, strategies, and staffing decisions that mitigate the risks will be rated higher. Proposals that demonstrate that the designer and key personnel have specific qualifications and experience that will increase the likelihood of successful performance will be rated higher.

Schedule & Design Approach (Subfactor)

Provide a schedule from contract award through construction completion, identifying no more than the 50 most important critical path activities and milestones. The schedule should clearly show the logic and sequence of events necessary for the successful execution of the project. Although there is no specific page limit for the schedule, any extraneous narrative comments provided on the schedule will not be evaluated.

In a narrative not to exceed 5 pages, describe design approaches that were considered, outline the rationale for the proposed solution, and indicate aspects of your design (such as materials, systems, features and technologies that will benefit the government from the point of view that they will be energy efficient, easily maintained, durable, and/or sustainable.).

Basis of Evaluation:

The offeror's schedule will be evaluated based on an assessment of the Offeror's understanding of the project scope and identification of critical activities as reflected in the schedule. The schedule will be used to assess the level of confidence of project completion within the stated period of performance. Schedules that clearly convey a detailed, logical, and systematic approach to the work and that address important factors will be rated higher. The seed project will be awarded at the stated period of performance in the Phase Two RFP. The performance period for the seed project is 360 calendar days. Submitted schedules indicating a shorter period of performance will not be viewed more favorably.

The offeror's design approach (including any concept design and/or narratives to address key design elements) will be evaluated based on the extent to which it demonstrates the Offeror's understanding of the project scope and the extent to which it provides an effective solution to the requirements outlined in the Phase Two RFP. Design approaches that outline key considerations and demonstrate practical design solutions in line with the requirements will be rated higher. Where design approaches can both meet performance requirements and introduce distinguishable benefit to the government (including elements of energy efficiency, maintainability, durability, and or sustainability) the offeror will be rated higher.

Factor 6 – Price Evaluation Factor

Submit the price for the seed project in block 17 of the SF 1442.

Basis of Evaluation:

The total evaluated price will be calculated by summing the total for the base and any applicable options. The Government may use various price analysis techniques and procedures to evaluate the overall price. Examples of such techniques include, but are not limited to the following:

- A. Comparison of proposed prices received in response to the solicitation.
- B. Comparison of proposed prices with the independent Government cost estimate.
- C. Comparison of proposed pricing obtained through market research, parametric estimating methods, or historical information.

SOLICITATION OFFER AND AWARD (Construction, Alteration, or Repair)	1. SOLICITATION NO.	2. TYPE OF SOLICITATION	3. DATE ISSUED	PAGE OF PAGES
	HSCG50-16-R-CGRMAC	<input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	10/11/2018	1 of 2

IMPORTANT - The "offer" section on page 2 must be fully completed by offeror.

4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO.	6. PROJECT NO.
		5030925
7. ISSUED BY	CODE	8. ADDRESS OFFER TO
CONTRACTING OFFICER U.S. COAST GUARD CIVIL ENGINEERING UNIT MIAMI 15608 SW 117 TH AVENUE MIAMI, FLORIDA 33177-1630	82	SEE SECTION L
9. FOR INFORMATION CALL	A. NAME	B TELEPHONE NO. (Include area code) (NO COLLECT CALLS)
	LESIA K. MOYER	(305) 278-6725

SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying no., date):

Department of Homeland Security Regional Multiple Award Construction Contracts (RMACC) For Region 8 (Phase Two)

North American Industry Classification System Code (NAICS) 236220 Commercial and Institutional Building Construction
Small Business Size Standard: \$36.5M

Regional Multiple Award Construction Contract Region 8 is set-aside for HUBZone Small Business concerns. The Government intends to award no more than ten contracts in Phase Two. The offeror determined to provide the overall best value to the Government will also receive award of the seed project as the first task order.

Term of IDIQ Contracts: Base Year + Six Option Years

Two-Phase Design-Build Selection Procedures outlined in FAR Subpart 36.3 will be used for this procurement. Those offerors selected as most highly qualified during Phase One will receive the requirements and wage determination for a regional seed project as part of Phase Two. Site Visit information for the seed project is outlined in Section L.

Standard Form 1442 is required for submission with the Phase 2 proposal. Phase One and Two amendments shall be acknowledged. Proposal submission procedures are described in Section L.

11. The contractor shall begin performance within <u>15</u> calendar days and complete it within <u>360</u> calendar days after receiving <input checked="" type="checkbox"/> award, <input type="checkbox"/> notice to proceed. This performance period is <input type="checkbox"/> mandatory, <input type="checkbox"/> negotiable. (See _____) .	
12a. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? (If "YES", indicate within how many calendar days after award in Item 12B.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12B. CALENDAR DAYS 10

13. ADDITIONAL SOLICITATION REQUIREMENTS:

- A. Sealed offers in original and 3 copies to perform the work required are due at the place specified in Item 8 by 2:00 PM (hour) local time November 19, 2018 (date). If this is a sealed bid solicitation, offers must be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.
- B. An offer guarantee ☒ is, ☐ is not required.
- C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.
- D. Offers providing less than 180 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

OFFER (Must be fully completed by offeror)

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)

15. TELEPHONE NO. (Include area code)

16. REMITTANCE ADDRESS (Include only if different than Item 14)

DUNS : _____

CODE _____ FACILITY CODE _____

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within ____ calendar days after the date offers are due. (Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)

AMOUNTS ►

18. The offeror agrees to furnish any required performance and payment bonds

19. ACKNOWLEDGMENT OF AMENDMENTS

(The offeror acknowledges receipt of amendments to the solicitation - give number and date of each)

AMENDMENT NO.								
DATE								

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER
(Type or print)

20B. SIGNATURE

20C. OFFER DATE

AWARD (To be completed by Government)

21. ITEMS ACCEPTED:

22. AMOUNT

23. ACCOUNTING AND APPROPRIATION DATA

24. SUBMIT INVOICES TO ADDRESS SHOWN IN
(4 copies unless otherwise specified)ITEM
BLOCK 2625. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO
☐ 10 USC 2304(c) ☐ 41 U.S.C. 3304(a) ()26. ADMINISTERED BY
CONTRACTING OFFICER
USCG CIVIL ENGINEERING UNIT MIAMI
15608 SW 117TH AVENUE
MIAMI, FLORIDA 33177-1630

CODE

27. PAYMENT WILL BE MADE BY
COMMANDER (0324)
U. S. COAST GUARD FINANCE CENTER
1430A KRISTINA WAY
CHESAPEAKE, VA 23326-0324

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

☐ 28. NEGOTIATED AGREEMENT (Contractor is required to sign this document and return ____ copies to issuing office.)

Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration slated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.

☐ 29. AWARD (Contractor is not required to sign this document.)

Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.

30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN
(Type or print)

31A. NAME OF CONTRACTING OFFICER (Type or print)

LESIA K. MOYER

30B. SIGNATURE

30C. DATE

31B. UNITED STATES OF AMERICA
BY

31C. AWARD DATE

General Decision Number: LA180042 01/12/2018 LA42

Superseded General Decision Number: LA20170042

State: Louisiana

Construction Type: Building

County: Jefferson County in Louisiana.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2018
1	01/12/2018

ASBE0053-001 09/05/2016

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 24.72	8.39

ELEC0130-011 12/01/2017

	Rates	Fringes
ELECTRICIAN (Including Communication Technician and Low Voltage Wiring; Excluding Installation of HVAC/Temperature Controls).....	\$ 30.49	11.60

* ELEV0016-001 01/01/2018

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 39.32	32.645+a+b

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day and Christmas Day.

b. VACATION: Employer contributes 8% of basic hourly rate for 5 years or more of service; 6% of basic hourly rate for under 5 years of service as vacation pay credit.

ENGI0406-002 07/01/2014

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Crane).....	\$ 23.46	8.35
CRANE PREMIUMS:		
50-150 Tons	\$1.75	
Over 150 Tons	\$2.25	

IRON0058-007 06/01/2017

	Rates	Fringes
IRONWORKER (REINFORCING AND STRUCTURAL).....	\$ 20.95	9.14

PAIN1244-006 09/01/2017

	Rates	Fringes
GLAZIER.....	\$ 20.86	8.88

PAIN1244-011 08/01/2016

	Rates	Fringes
PAINTER (Spray).....	\$ 18.63	7.53

PLAS0567-001 07/01/2014

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 23.76	6.19

PLUM0060-010 12/04/2017

	Rates	Fringes
PIPEFITTER (Including HVAC Unit Installation; Excluding HVAC Pipe Installation).....	\$ 29.25	11.94
PLUMBER (Including HVAC Pipe Installation; Excluding HVAC Unit Installation).....	\$ 29.25	11.94

SULA2012-023 09/22/2014

	Rates	Fringes
BRICKLAYER.....	\$ 18.88	0.00
CARPENTER (Form Work Only).....	\$ 15.00	0.00
CARPENTER, Excludes Drywall Hanging and Metal Stud Installation, and Form Work.....	\$ 18.45	3.18
DRYWALL HANGER AND METAL STUD INSTALLER.....	\$ 18.35	4.33

ELECTRICIAN (HVAC/Temperature Controls Installation Only).....	\$ 28.93	6.31
LABORER: Common or General.....	\$ 14.68	0.00
LABORER: Mason Tender - Brick....	\$ 12.39	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 21.03	0.00
PAINTER (BRUSH AND ROLLER), Excludes Drywall Finishing/Taping.....	\$ 18.95	8.91
PAINTER: Drywall Finishing/Taping.....	\$ 18.63	3.43
ROOFER.....	\$ 16.77	5.66
SHEET METAL WORKER (HVAC Duct Installation Only).....	\$ 25.54	10.30
SHEET METAL WORKER, Excludes HVAC Duct Installation.....	\$ 20.66	0.00
SPRINKLER FITTER (Fire Sprinklers).....	\$ 20.98	5.46
TILE SETTER.....	\$ 20.00	0.00
TRUCK DRIVER: Dump Truck.....	\$ 15.00	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate

for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey

program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

RFP DESIGN-BUILD SPECIFICATIONS

FOR Major M&R Multi-Purpose Building Project #: 5030925

**STA Grand Isle
453 Admiral Craik Drive, Grand Isle, LA 70358**

SEPTEMBER 2018

**DEPARTMENT OF HOMELAND SECURITY
UNITED STATES COAST GUARD
CIVIL ENGINEERING UNIT**

**CEU MIAMI
15608 SW 117TH AVE.
MIAMI, FL 33177**

FINAL

**U.S. Department of
Homeland Security**

**United States
Coast Guard**



STA Grand Isle, LA

PROJECT RFP REQUIREMENTS

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	1.17 FURNISHINGS, EQUIPMENT AND OUTFITTING (NOT USED) [OR RFP DRAWINGS]
	1.18 ENVIRONMENTAL DESIGN, PERMITS, CONTROLS, AND PROTECTION
	1.19 DREDGING (NOT USED)
01801	DESIGN-BUILD REQUIREMENTS
	1.1 TEMPORARY STRUCTURES
	2.1 REFERENCES, CODES, AND STANDARDS
	2.2 ROLES OF RFP SPECIFICATIONS & DRAWINGS
	2.3 DESIGN RELATED PERMITS & CERTIFICATIONS
	2.4 CIVIL AND SITE WORK
	2.7 ARCHITECTURAL
	2.10 FIRE PROTECTION
	2.11 PLUMBING
	2.12 HEATING VENTILATING AND AIR CONDITIONING
	2.13 ELECTRICAL
	2.14 TELECOMMUNICATIONS (NOT USED)
01802	CONSTRUCTION DESIGN DOCUMENTS
01803	RECORD DOCUMENTS AND DRAWINGS
01900	LIST OF RFP DRAWINGS, EXHIBITS AND ATTACHMENTS
APPENDIX A	COMPUTER GENERATED DRAWINGS
APPENDIX B	CRITERIA FOR ELECTRONIC DELIVERABLES

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APPENDIX C
APPENDIX D
APPENDIX E

ADEPT FILE NAMING
DESIGN NARRATIVE (NOT USED)
INDUSTRY STANDARDS FOR CONSTRUCTION DOCUMENTS

SECTION 01110
DESIGN-BUILD GENERAL PARAGRAPHS

PART 1 GENERAL

1.1 SCOPE OF WORK

Provide Design-build services for the repair work and new construction required for Station Grand Isle, Louisiana. Do the work according to this specification and as shown on the enclosed drawing sheets. Do the work according to this specification and as shown on the Government-accepted, Contractor-originated drawings.

The total Design and construction duration is **360 days** from the contract award date.

1.1.2 Project location:

- USCG Station Grand Isle is located at 453 Admiral Craik Drive, Grand Isle, LA. 70358

1.1.3 Summary of Scope of Work:

- Refer to section 01800 1.1-1.3 for the scope of work.
- Most of the design and construction work is to address major engineering maintenance deficiencies and various required repairs to enhance the station's operation and to extend the life cycle for the facility and its infrastructure.
- The scope of the design and construction work is comprised of exterior and interior renovation works for several buildings, infrastructure enhancements, and paving and drainage to existing parking lots.

Documents including reports and drawings are for guidance only, Design Build team to verify and confirm information provided prior to design and construction.

- a. One electronic set of the final approved Contract documents at the time of award.
- b. One electronic copy of any changed document due to a Contract modification
- c. One electronic copy of all forms referred to herein. Reproduce as necessary.
- d. Publications incorporated into the technical provisions by reference will not be provided by the Government.

1.2 CONTRACTOR RESPONSIBILITY

This contract contains both prescriptive and performance-based criteria. The design and subsequent construction shall incorporate all ancillary components as necessary to provide a complete and functional facility for the intended purpose. Where direction is given, it is directed to the Contractor. In each case the meaning is as though written "the Contractor shall...."

1.3 WORK HOURS

- 1.3.1** Work is authorized at the site from 0700 to 1700 Monday through Friday subject to local jurisdiction approval. No work is allowed on weekends or Federal holidays unless authorized by the KO in advance.

1.4 STATION POINT OF CONTACT

MKC Richard G. Woodroof

453 Admiral Craik Drive

Grand Isle, LA. 70358

Phone: (958) 787-2136

e-mail: richard.g.woodroof@uscg.mil

1.5 CONTRACTOR USE OF PREMISES

- 1.5.1 All lay down or staging areas for materials, equipment and Contractor vehicle parking must be located within the indicated Contractor fenced staging area and site. Coordinate with the Facility Engineer (FE) and Contracting Officer's Representative (COR) onsite to determine the extent of the lay down or staging areas.
- 1.5.2 Shipments of equipment, materials, and supplies shall be addressed to the contractor - not the Government. The contractor must be on hand to accept shipments; the Government will not accept shipments.

1.6 Definitions

The following terms are defined as follows:

- Day(s): calendar day(s), unless otherwise noted
- FE: Facility Engineer
- KO: Contracting Officer
- CPM: CEU MIAMI Construction Project Manager
- COR: CEU MIAMI Contracting Officer's Representative
- DPM: CEU MIAMI Design Project Manager
- GCI: CEU MIAMI Government Contracted Inspector
- A/E: Architect-Engineering Firm
- QAM: Contractor's Quality Assurance Manager
- DOR: Contractor's Design Engineer of Record and central point of contact for all design issues and questions
- KR: Contractor
- DCR: Design Clarification Request to the Government clarifying contract/RFP requirements
- RFI: Request for Information sent internally between Construction Contractor and the Contractors DOR clarifying design

1.7 REFERENCES AND ORDER OF PRECEDENCE

Where specifications or standards documents are referenced in these Contract documents, they apply as if they were incorporated into the contract, except if specifically noted otherwise. If there are differences between referenced documents and any contract documents the following precedence applies.

- a. Contract
- b. RFP Specification
- c. RFP Drawings
- d. References
- e. Applicable code or standard governing the work in question

1.8 SECURITY

- 1.8.1 STA Grand Isle is a Federal facility. All personnel visiting the site will have to present valid picture identification from their state of residence. All personnel working on the project site must

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be legal to work in the United States of America. All vehicles entering the site must present and carry proof of insurance at all times. Provide a written list of expected workers with their driver's license/identification card numbers and expected on site duration to the Facility Engineer a minimum of 7 days prior to the personnel arriving.

1.8.2 All personnel shall carry proper identification (ID) and a worker badge when on site. Proper ID is defined as either the individual's driver's license, or a state issued ID. The identification must be laminated, and show a facial picture of the individual. Individuals without proper ID will be escorted off the Coast Guard premises.

1.8.3 The Contractor shall become familiar with and obey station fire, traffic, and security regulations. Personnel shall not stray from the immediate area of work or direct avenues of ingress and egress unless authorized in advance by the FE or COR.

1.9 OTHER STATION WORK

Not used.

1.10 NEW UTILITY SERVICES

Make all arrangements with the local utility providers and pay all fees, charges, and costs of any nature associated with establishing and installing new temporary (during construction) and subsequent permanent utility services required to ensure permanent and uninterrupted utility service at project completion. The contract documents may provide a conceptual plan for utility layouts. These plans shall be confirmed by the contractor during the bidding stage with the local utility provider to determine the exact materials, equipment placement, and other features that may be required by the specific utility provider. The term utility service includes, but is not limited to meters, mains, service lines, high voltage feeders, transformers, force mains, lift stations, etc. The contractor is responsible for coordinating the work with the utility provider to insure the utility connection to the site is completed and that there is no delay in the prosecution of the work or completion of the project. Utility services include electricity, water, sewer, and telephone. All utilities within the base are owned by the Government. The local utility providers are as follows:

<i>Utility Provider</i>	<i>Service</i>	<i>Telephone Number</i>
Entergy	Electric	1 (800) 968-8243
Jefferson Parish	Water	(504) 349-5081

1.11 PERMITS

Contractor's responsibility for permits is discussed in Section I contract clause 52.236-7 "Permits and Responsibilities" and in Section 01800 paragraph 1.18 "Design Related Permits". In addition the contractor shall pay for and obtain all temporary permits for construction of this contract work. The Contractor shall comply with all terms and conditions of permits, whether the Contractor or the Government obtains the permit.

1.12 DRAWINGS FURNISHED

One compact disc (CD) of the plans and specifications will be furnished to the Contractor without charge.

1.13 WORK SEQUENCE

None

1.14 GOVERNMENT-FURNISHED ITEMS

None

1.15 RELOCATED EQUIPMENT AND ITEMS

1.15.1 [None]

Disconnect, dismantle if necessary, remove, relocate, reinstall, connect, and test items as indicated in the RFP. Cap disconnected service lines. Provide mechanical and electrical service connections, fittings, fastenings, and other materials needed to assemble and install relocated equipment. Before disconnecting or relocating items, inspect the items in the presence of the COR to determine their existing condition. The contractor is responsible for damage sustained by the items after this inspection.

1.16 UTILITY OUTAGES

Before interrupting or shutting down any utility, make a request for the interruption to the Contracting Officer at least 5 days before the anticipated interruption. Identify the utility, reason for interruption, proposed time of interruption, and duration of interruption. Do not interrupt utilities until authorized by the Contracting Officer.

1.17 UNDERGROUND UTILITIES

The underground utility locations shown on the drawings (if provided) are not exact. "Miss Utility" locator services are not available at US Coast Guard Facility. Use a private utility locator service, at contractor expense, to locate underground utilities. Notify the cognizant utility companies at least 48 hours before excavating. Mark the excavation route and intersecting utilities. Where excavation will cross an existing utility line, use hand tools to excavate for a distance of 5 feet on each side of the intersection location shown on the drawings. Once exposed, protect underground utilities from damage.

- a. Make utility cut-over and interruptions after the normal working hours or on Saturdays, Sundays, and Government holidays.
- b. Ensure that new utility lines are complete, except for the connection, before interrupting existing service.
- c. Interruption to water, sanitary sewer, storm sewer, telephone service, electric service, air conditioning, heating, and fire alarm shall be considered utility cut-overs. All outages shall be restored prior to the start of the Unit's next operational work day. This time limit includes time for deactivation and reactivation.
- d. Operation of Station Utilities: The Contractor shall not operate nor disturb the setting of control devices in the station utilities system, including water, sewer, electrical, and steam services. The Government will operate the control devices as required for the normal conduct of the work. The Contractor shall notify the Contracting Officer giving reasonable advance notice when such operation is required.

1.18 WEATHER

- 1.18.1 Should warnings of severe weather be issued, the Contractor shall take every practical precaution to minimize danger to persons, the work, and to adjacent property. Precautions shall include, but are not limited to, closing all openings, removing all loose material, tools and equipment from exposed locations, and removing or securing scaffolding and other temporary work.

1.19 STORM PROTECTION

Should warnings of winds of gale force or stronger be issued, the Contractor shall take every practicable precaution to minimize danger to person, the work, and to adjacent property. Precautions shall include, but are not be limited to, closing all openings, removing all loose materials, tools and equipment from exposed locations, and removing or securing scaffolding and other temporary work.

1.20 MANUFACTURER'S INSTRUCTIONS

Particular items and products specified in the sections are to be provided and/or installed according to the manufacturer's printed instructions. For bidding and contract performance purposes, the contractor is deemed to be aware of the requirements of these instructions.

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1.21 RECEIPT OF MATERIALS

Shipments of equipment, materials, and supplies shall be addressed to the contractor - not the Government. The contractor must be on hand to accept shipments; the Government will not accept shipments.

1.22 DELIVERY, STORAGE, AND HANDLING OF MATERIALS

Deliver, store, and handle products and materials according to the manufacturer's printed instructions and as follows:

- a. Deliver products and materials in manufacturer's original unopened packages or containers bearing manufacturer's labels.
- b. Store products subject to damage from the elements in weather tight enclosures; maintain temperature and humidity within the ranges stated in the manufacturer's printed instructions.
- c. Store fabricated products off the ground on platforms, blocking, or skids. Cover or protect products that may discolor or deteriorate due to exposure to the elements. Provide ventilation to avoid condensation.
- d. Store loose granulated material on solid surfaces such as paving, plywood, or sheet material to prevent mixing with foreign matter. Provide drainage to prevent sheet material to prevent mixing with foreign matter. Provide drainage to prevent flow or ponding of rainwater. Prevent mixing of materials.
- e. Any failure to comply with storage that results in damage will not be reimbursed by the Government

1.23 MINOR DEMOLITION, CUTTING, AND PATCHING:

- a. Provide Contracting Officer 24 hour notice before commencing demolition.
- b. Cut surfaces such as masonry, plaster, tile, and metal in straight lines at natural points of division.
- c. Materials for patching, filling-in, repairing, and extending work shall be new, and shall be similar in appearance and equal in quality to the materials used in the adjoining construction or the removed materials when they were new.
- d. Protect existing construction, surfaces, and equipment from damage. Damaged existing construction, surfaces, or equipment shall be restored or replaced to match existing conditions or new adjoining work at the Contractor's expense.
- e. Dust: Erect and maintain temporary dust tight partitions or barriers to prevent the spread of dust, fumes, and noise to other parts of the building. Seal off return air grilles in the areas enclosed by dust barriers. Vent areas enclosed by dust barriers to the outside and provide filters on these vents. Before removing the dust barrier, completely clean the area enclosed by the barrier and both sides of the barrier itself. Cover existing equipment to protect it from dust.
- f. Disassemble, disconnect, cut, remove, and alter existing construction and equipment without damaging other construction or equipment that is to remain or be reused. Cut and remove to the limits shown on the drawings, or, if not shown, to the minimum extent necessary for the proper installation of new work. Piping shall be removed and capped so as to be concealed in the finished work.
- g. Cut, move, and remove existing construction as necessary to do the work; replace and restore when work is completed.
- h. Completely remove applied finish flooring such as ceramic floor and base, and resilient tile flooring and base, including mastic, to structural floor.

- i. **Patching:** Patch to provide a neatly finished installation and to restore surfaces and items to the condition they were in before the work started. Where removals leave holes and damaged surfaces that will be exposed in the finished work, patch and repair these holes and damaged surfaces to match adjacent finished surfaces and to provide surfaces that are suitable for the provision of the new work. Install materials according to standard trade practice. Provide a smooth, even line of transition where patched work adjoins existing construction or new work. Patches or repairs shall match existing conditions or new adjoining work and shall provide a uniform finish and texture over the entire surface. When existing finish cannot be matched, refinish the entire surface to the nearest intersection.
- j. **Transitions:** Make smooth and even transitions where new work abuts or aligns with existing construction. Where finished surfaces are cut such that a smooth transition with new work is not possible, terminate the existing surface along a straight line at a natural point of division and submit written recommendations to the COR on how to proceed.
- k. **Adjustments:** Where removal of partitions results in adjacent spaces becoming one, rework floors, walls, and ceilings to a smooth plane without breaks, steps, and bulkheads.

1.24 SAFETY PLAN

1.24.1 General

Provide all necessary and required work site safety. Implement a safety program that protects the lives and health of personnel in the construction area, prevents damage to property and avoids work interruptions. Provide appropriate safety measures including but not limited to barricades, signs and signal lights as well as complying with the requirements of all applicable Federal, State and Local safety laws, rules and regulations.

1.24.2 Compliance

Comply with the requirements of the U. S. Army Corps of Engineers "Safety and Health Requirements Manual" (EM 385-1-1, latest version available) and the "Accident Prevention" clause (FAR 52.236-13). Once accepted, this safety plan shall become part of the contract requirements. Note: This review/acceptance does not in any way relinquish the responsibility for work site safety nor the obligation to comply with the OSHA regulations found in 29 CFR 1910 & 1926 or any other State or Local safety law, rule or regulation applicable to the contract work. The Coast Guard will cooperate fully with the Department of Labor (Occupational Safety and Health Administration) in their enforcement of OSHA regulations.

1.24.3 Safety Plan

Submit a written safety plan for approval. At a minimum, this plan shall describe the general safety program and identify specific safety provisions for hazards incidental to the contract work such as elevated working surfaces, working over water, working from floating work platforms, overhead crane operations or similar conditions of the Work.

1.24.4 Safety Data Sheets and Material Handling Procedures

a. Data Sheets

1. Submit a Safety Data Sheet (SDS) for all materials containing hazardous substances required for contract execution approval – refer to the Submittal Register. Information provided in SDS's shall meet the requirements of 29 CFR 1910.1200. SDS's require Contracting Officer's Representative review and acceptance prior to bringing these materials on site.

a. Material Storage

1. Limit the quantity of these materials stored on site to the amount needed for execution of work. Storage of excess materials will not be permitted. Assure that the storage of these materials comply with all applicable federal, state, and local laws and regulations and provide additional storage facilities (paint lockers, etc.) as required for the storage of such materials. Coordinate the physical location of storage areas with the POC prior to bringing these materials on site. Refer to paragraph below for related requirements.

b. Protective Measures

1. Take all protective measures outlined on the SDS's and as required by federal, state and local regulations to protect all personnel in the vicinity of the work area from exposure to these materials. Provide all required protective measures in the Safety Plan. The Contracting Officer's Representative shall review protective measures prior to allowing use of these materials.

c. Disposal of Excess Material

1. Dispose all excess hazardous materials as required by the SDS and all applicable federal, state, local laws and regulations. Refer to paragraph below for related requirements.

1.25 CONTRACTING OFFICER'S AUTHORITY

In no event shall any understanding or agreement between the contractor and any Government employee other than the Contracting Officer on any contract, modification, change order, letter or verbal direction to the Contractor be effective or binding upon the Government. All such actions must be formalized by a proper contractual document executed by an appointed Contracting Officer. The contractor is hereby put on notice that in the event a Government employee, other than the Contracting Officer, directs a change in the work to be performed, or increases the scope of the work to be performed, it is the contractor's responsibility to make inquiry to the Contracting Officer before making the deviation. Payments will not be made without being authorized by an appointed Contracting Officer with the legal authority to bind the Government.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

END OF SECTION

SECTION 01200
DESIGN-BUILD PROGRESS PAYMENTS

PART 1 GENERAL

This section covers the submittal requirements for design-build progress payments.

1.1 RELATED CONTRACT CLAUSE

Section I contract clause 52.232-5 "Payments under Fixed-Price Construction Contracts."

1.2 SUBMITTALS

A. SD-01 Preconstruction Submittals

- Schedule of Prices for permits, design and construction activities.

1.3 DESIGN SUBMITTALS

See Section 01802 Construction Design Documents for additional submittal requirements.

- a. Permit (application and submission)
- b. Initial 35% Design Submittal
- c. 65% Design Submittal
- d. Final Design Submittal
- e. Construction Submittal Reviews
- f. Corrected Final Construction Design Submittal
- g. Site Visit Reports During Construction (see section 01802)
- h. Final Inspection Reports (see section 01802)
- i. As-Built Design Drawings (see section 01802)

1.4 SUBMITTALS DURING CONSTRUCTION

1.4.1 Request for Progress Payment

Payment requests during design may be made upon submission of each design submittal, and will be based on the portion of the Base Bid for Design Services indicated in Part 3 of this section. Apply for progress payments using "Contractor's Monthly Estimate for Payment Voucher" and the required payment certification that are available from the Contracting Officer. Electronic copies are available.

1.4.1.1 Documentation for Materials Delivered But Not Installed

Paid invoices for materials stored on site for which progress payments are requested shall accompany the application for payment. Requests for payment for materials stored offsite will normally not be approved.

Payment requests for services provided for construction submittal review, site visits during construction, and final inspections may be made monthly based on the portion of the Base Bid for Design Services indicated in Part 3 of this section.

Payment request for As-Built Design Drawings may be made upon submission of the as-built drawings (see Section 01802 Construction Design Documents), and will be based on the portion of the Base Bid for Design Services indicated in Part 3 of this section.

1.4.1.2 In accordance with FAR Clause 52.236-15, Schedules for Construction Contracts and section 01320, submit updated progress documentation along with the request for payment, including request for final payment.

1.5 TIMING FOR SUBMITTALS DURING CONSTRUCTION

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1.5.1 Initial Submission

Submit an original schedule of prices with the progress documentation required by section 01320 for the Government's approval.

1.5.2 Progress Payments

Progress payment requests may be submitted once a month to coincide with the progress update.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION**3.1 SCHEDULE OF PRICES**

Prepare and deliver to the Contracting Officer a schedule of prices on the forms furnished by the Government. Provide a detailed breakdown of the contract price, giving quantities for each of the various kinds of work, design phases, unit prices and extended prices therefore.

3.1.1 Design Phase Schedule of Prices during Design

A. Initial Design Phase - The following design and permit sub-categories shall be included and values provided on the schedule of prices:

- Draft Permit(s) for review
- Final Permit (ready for signatures)
- 35% Civil/Architecture (For CDR - see section 1802; 10% of Design Base Bid)
- 65% Construction Design Submittal (35% of Design Base Bid)
- Final Construction Design Documents Submittal (35% of Design Base Bid)
- Corrected Final Construction Design Documents Submittal (5% of Design Base Bid)

B. Design Phase Schedule of Prices during Construction

The following design sub-categories shall be included and values provided on the schedule of prices:

- Construction Submittal Reviews (8% of Design Base Bid)*
- Site Visits During Construction & Final Inspection (7% of Design Base Bid)*
- As-Built Drawings

* See Section 01802, Construction Design Documents, paragraph 1.11 Site Visit Inspections, for Scope of Work for Site visits and inspections by the Designer of Record.

3.1.2 Construction Phase Schedule of Prices

3.1.2.1 As noted in paragraph 3.1, the schedule of prices shall be prepared in conjunction with the development of the complete performance schedule. The items listed on the schedule of prices (construction portion) shall match the activities listed on the complete network schedule. Use unit prices for items when practical (provide quantities, units, labor and materials). Allocate overhead expenses such as field superintendent, temporary facilities and general conditions across all line items; do not show as individual expenses in the schedule of values. The bonds may be billed separately upon receipt by the government. Once approved, the values listed in the schedule of prices shall not be changed. The fields for the schedule of prices are defined below:

- a. ID # - The identification or activity number shall be obtained from the complete performance schedule. ID #'s shall not change after the schedule of prices is approved by the Government.

- b. Activity Description – The activity description shall be obtained from the complete performance schedule for the corresponding ID #.

3.1.3 Contract Modifications

Each contract modification shall be added to the end of the approved schedule of prices.

3.2 CONTRACTOR MONTHLY VOUCHER ESTIMATE

The contractor's monthly voucher estimate consists of the approved schedule of prices and the data elements below.

- a. Percent of Installation Complete To Date: Insert the percent complete value for this activity.
- b. Material Invoices Submitted To Date: The sum of the paid material invoices for the specific activity shall be placed in this field.
- c. Amount Payable To Date: The value in this field shall be automatically calculated and shall not be overtyped. The amount payable to date for stored material equals the greater of (1) the material invoices submitted to date column or (2) the material activity cost multiplied by the percent of installation complete to date value for the activity. The total amount shall not exceed the material activity cost. The labor value payable to date is calculated by multiplying the labor value activity cost by the percent of installation complete to date.
- d. Amount Payable to Date Last Month: The value in this field is carried over from the previous months approved invoice amount payable to date column.
- e. Amount Payable This Month: This value shall be automatically calculated and shall not be overtyped. The value is calculated by subtracting the amount payable to date last month value from the amount payable to date column. This value represents the amount earned for a specific activity without regard to retainage.
- f. Required Calculations: The last page of the contractor monthly voucher estimate shall include the following calculated values - (1) The Total Contract Value which is the sum of the activity cost field column values which shall also equal the current total contract price, including approved modifications; (2) Subtotals of the amount payable columns (to date, to date last month, this month); (3) Percent Complete Based On Installed Material which is the sum of the activity cost labor column multiplied by the percent of installation complete to date and then divided by the sum of all of the values listed in the activity cost labor column; and, (4) Percent Earned To Date which is the total amount payable to date divided by the total contract value.
- g. Signature of Inspector: During construction phase, voucher should be reviewed (and signed) by Government's inspector (if available) with contractor's superintendent indicating agreement with requested percentage of work complete.

3.2.1 Payment for Stored Materials

Although Section I contract clause 52.232-5 does not require payment for materials received but not installed, the Contracting Officer may consider requests for, and may authorize payment for the cost of the material based on the lesser of the following: (1) The total value of all invoices submitted for the activity; and (2) The value listed in the material total cost field. In order for requests for payment to be considered, the material shall be per the approved submittal, on site, and properly stored or protected.

3.2.1.1 Material Invoices

Paid material invoices shall be legible and clearly document the type, quantity and cost of the materials covered by the invoice. The contractor shall clearly mark on each invoice the activity number which payment is being requested. For invoices covering more than one activity, the contractor shall indicate both the activity number and the percentage of the total invoice to be applied. Incomplete or unreadable invoices will not be considered when processing payment requests.

3.2.1.2 LEED Activities/Certification

Not used.

End of section

SECTION 01320
DESIGN-BUILD PROGRESS SCHEDULE

PART 1 GENERAL

1.1 DESCRIPTION

Prepare a time-scaled construction performance schedule pursuant to the clause 52.236-15 "Schedules for Construction Contracts" of the Contract. Include scheduling of construction, creation of the network, production of the reports, execution of the plan described by the network, participation in meetings with the Construction Project Manager, and submission of progress updates and schedule revisions, as set forth below. Utilize conventional network analysis precedence diagram techniques.

1.2 SUMMARY

This Section specifies administrative and procedural requirements for various Design and Construction Progress Documentations required for proper performance of the Work.

- A. All costs incurred by Contractor to correctly implement and update the schedule shall be borne by Contractor and are part of this Contract.
- B. Schedules required include the following
 - 1. Contract Construction Progress Schedule in Critical Path Method (CPM) format and related narrative.
 - 2. Submittals Schedule.
 - 3. Schedule of Tests and Inspections.
 - 4. Record, As-Built CPM Schedule.
- C. Reports required include the following:
 - 1. Daily Construction Reports.
 - 2. Material Location Reports.
 - 3. Field Correction Reports.
 - 4. Special Reports.
 - 5. Monthly Progress Reports.

1.3 DEFINITIONS

1.3.1 Preliminary Performance Schedule

Is defined as the planned operations during the first 90 days after the Contract Award. The preliminary performance schedule shall consist of a diagram as described elsewhere in this section. No progress payments will be processed until the complete performance schedule has been approved by the Government.

1.3.2 Complete Performance Schedule

Is defined as the planned operations for the entire contract as described by contract clause 52.236-15.a. The complete performance schedule shall consist of a chart and required reports as described elsewhere in this section.

1.3.3 Float and Slack

Is defined as the amount of time between the early start date and the late start date, or the early finish date and the late finish date of any of the activities in the network analysis schedule. Float or slack is not time for the exclusive use or benefit of either the Government or the contractor.

1.3.4 Schedule Update

A schedule update shall provide actual start, current percent complete, and actual finish field updates to the complete performance schedule. No other fields shall be changed as part of an update.

1.3.5 Schedule Revision

Schedule revisions consist of the addition of new activities, as well as, changes in the approved work schedule, in contract completion date, logic and/or duration of existing activities. Approved schedule revisions change the schedule baseline only from the effective date of the revision for incomplete activities.

1.3.6 Schedule Baseline

The current approved performance schedule prior to updates.

1.3.7 Activity Description

Each activity shall be described to clearly define the feature of work and its location (Example: Phase I, first floor rough electrical).

1.3.8 Responsibility Code

Field identifying the organization completing the specific activity (i.e. prime contractor, subcontractor's name, Government, etc.).

1.4 SUBMITTALS

- A. General: Contractor shall provide all schedule submittals on computer disk media as well as tabular printouts, and 24-by-36-inch time-scaled logic diagrams. The latest version of, Primavera P6®, SureTrak® or an equally capable scheduling software shall be used. All costs incurred by Contractor to correctly implement, computerize and update the CPM Schedule shall be borne by Contractor and are included in the Contract Price. The number of copies of each submittal shall be as described in this Section or as may be requested by COR.
- B. Contract CPM Schedule: The Contract CPM Schedule and its related narrative as described in this Section shall be submitted as early as practicable after the Notice to Proceed, but in no event later than 30 calendar days after the Notice to Proceed. Within 15 calendar days, COR will respond with approval or direction to change and Contractor shall resubmit within 10 calendar days, if required.
- C. Daily Progress Report: Submit duplicate copies to COR by noon on the day following the date of actual progress.
- D. Monthly Progress Report: All components of the Monthly Progress Report described in this Section shall be submitted as attachments to Contractor's monthly Application for Payment.
- E. Record As-Built CPM Contract Schedule: A Record Contract Schedule accurately reflecting actual progress of Work shall be submitted, as part of this Contract's Record Documents. All activities shall have actual dates that are true and accurate.

1.4.1 SD-01 Preconstruction Submittals

Submit the following in accordance with section 01330 "Submittal Procedures":

- a. Preliminary Performance Schedule
 - Network Schedule Chart
- b. Original Complete Performance Schedule
 - Network Schedule Chart
 - Reports
- c. Monthly Updates
 - Electronic Network Schedule Chart
 - Progress Payments (See section 01200)

- Reports

- d. Schedule Revisions

- Revised Network Schedule Chart

- Narrative description of changes to activity
logic/duration

- Reports

1.4.2 Submittal Requirements

For the above submissions submit the following: 3 color copies of all documents plus an electronic copy on CD-ROM except monthly updates of schedule charts may be submitted on the CD-ROM only. Submit both the original software file as well as a .PDF file.

1.5 TIMING

1.5.1 Preliminary Performance Schedule

Within 30 days after Notice of Award, submit a preliminary network defining the planned operations during the first 90 days after Contract Award.]

1.5.2 Original Complete Performance Schedule

Submit the complete network analysis, consisting of the network mathematical analysis and network charts, within 45 days after Notice of Award.

1.5.2.1 Resubmittals

Changes necessary as a result of this review shall be submitted for approval of the Contracting Officer within 15 days.

1.5.3 Monthly Updates

Shall be submitted each month along with the request for payment, see section 01200.

1.5.4 Schedule Revisions

Shall be submitted within 15 days of the Contracting Officer's request.

1.6 SOFTWARE

1.6.1 Software Description

The Contractor shall use a commercially available, windows based, scheduling software program to manage the project. The software package shall have the characteristics and be capable of producing the time-scaled charts and reports described elsewhere in this section. The program shall also be capable of accepting revised completion dates as modified by approved time extensions, actual activity start/completion dates, and recompilation of tabulation dates and float accordingly without deleting the original proposed activity dates.

1.6.2 Deliverables

- a. Provide the Government with the full manufacturer's software package and licenses used to develop all network analyses, schedules, and reports on a CD-ROM. The contractor provided software will remain the property of the contractor.
- b. Provide a minimum of two days of hands on, computerized schedule familiarization for three government representatives within 50 miles of the project location covering the use of the Project Schedule software. Your project manager, scheduler and superintendent must also attend this schedule familiarization. Schedule familiarization shall be provided by your project scheduler or the individual responsible for updating and managing the inputs into this project.

The schedule familiarization shall use the project baseline schedule for all examples and exercises.

- d. Review all Activity names, durations and indicate what the item encompasses for the listed cost.
- e. The meetings shall include creating, displaying and printing the schedule in conformance to the following contract requirements:
 - (1) Demonstrate the creation of the weekly look-ahead schedule from the Baseline schedule.
 - (2) Display and verify all activities are linked directly or indirectly to the award and completion dates of this contract.
 - (3) Identify RPUID sorts and display formats.
 - (4) Demonstrate the export of the schedule to MS-project 2010 format; discuss limitations.
 - (5) Demonstrate how the activities will be updated; updates shall be done by the person who will perform the updates monthly. Identify file naming system used to identify updates for dissemination.
 - (6) Demonstrate from the updated schedule a sample of a complete monthly submission to the government. This shall include the written schedule analysis update.
 - (7) Trace a minimum of 3 activities from material procurement through to installation to 100% completion. Review each step to include, Submittal review (who, time frame), Pre-installation (who, time frame), QA activities related (who, time frame).
 - (8) Create a output format of the updated schedule for the monthly posting in the CI trailer.
 - (9) Create a 3 sample modifications on critical and non-critical activities for purposes of displaying a "fragnet" schedule that demonstrates time impacts to the schedule from a modification. Create modifications to display (increased contract duration, no effect and reduced contract duration)
 - (10) Create an earned value report from the baseline schedule.
 - (11) Demonstrate procedures for incorporating Changes to the project Baseline schedule.

Computerized schedule familiarization shall occur in conjunction with the preconstruction meeting.

1.6.3 Payment Requests

Payment request may be prepared for submission using programs other than the scheduling software. See section 01200, Progress Payments for specifics.

1.7 CONTRACT MODIFICATIONS

When change orders or delays are experienced by the Contractor and the Contractor requests an extension of time under one or more of the Contract clauses, the Contractor shall submit a written Time Impact Analysis (TIA) illustrating the influence of each change or delay on the Contract completion date or milestones, utilizing the current updated Project Schedule. Each TIA shall include a fragnet demonstrating how the Contractor proposes to incorporate the changes or delays into the Project Schedule. A fragnet is defined as a sequence of new activities and/or activity revisions that are proposed to be added to the existing schedule to demonstrate the influence of delay and the method for incorporating delays into the schedule as they are encountered.

The TIA shall be submitted with the cost proposal for each proposed change or delay. Incorporate contract modifications into subsequent monthly updates only after approval by the Contracting Officer.

Contract Modifications shall be added as items posted at the bottom of the original schedule with new activity numbers.

PART 2 PRODUCTS

2.1 NETWORK SCHEDULE CHART

The network shall consist of time scaled activities with logical interdependencies shown on a diagram with accompanying mathematical analyses.

Prepare a horizontal time scaled performance schedule with the total project divided and subdivided into a sufficient number of work activities to accurately graphically display the work schedule, sequence in which the work is to be accomplished, activity duration, and interdependence of activities. A bar shall depict the start, finish, and duration of each activity. The bar shall be shaded to indicate progress. In addition to construction activities, procurement times for critical items, including submittal turn-around, shall be shown on the schedule. The diagram shall clearly show the activities of the critical path.

2.1.1 Format

Provide network charts on [E-size sheets (30 inches by 42 inches)]. Use continuation sheets as required. Establish the time schedule for the entire project duration across the top of the sheet; divide into months and subdivide into weeks. Extend these division lines vertically from top to bottom of page. Units of 1/2 inch equal to 1 week are suggested. Indicate project name, location, contract number, data date, submission date, and general schedule data on each sheet. Provide a legend defining all symbols.

2.1.1.1 Required Columns

The following columns shall be provided on the left side of each sheet:

- Activity Number (ID #)
- Activity Name
- Duration
- Early and late start dates
- Late start and late finish dates
- Actual start and actual finish dates
- Total float
- Actual duration
- Percent complete

2.1.1.2 Activity Bars

Each of the activity bars shall be color coded and hatched to distinguish between the baseline, critical, non-critical, milestones, and also indicate progress. Critical path activities shall be colored red. Each activity bar shall be labeled with the activity name and percent complete.

2.1.1.3 Required Sorts

The original network chart shall be sorted by early start and then by early finish dates. The activity numbers shall be assigned in ascending order based on the results of this sort and shall not change for the remainder of the project duration.

2.1.2 Quantity and Numbering of Activities

[The minimum number of activities in the final performance schedule shall be [select number of activities per Note to Specifier]. New activity numbers shall be assigned to activities required to be added to a revised schedule for contract modifications or logic changes.]

2.1.3 Required Activities

The following specific activities shall be shown on the diagram and in the numerical analysis. The durations indicated are the minimum.

[Bond

Design Elements:

Site Visit

35% Design Submission

65% Design Submission

Government Review (21 days review)

Final Design Submission

Permits requiring Government signature including stormwater discharge permit

Government Review (21 days review)

Completed Final Design Submission (14 days)

Construction Activities:

Submittal Submission requiring Government review

Critical Submittal Approvals per Submittal Section (Include a 21 day review period activity with each critical submittal approval entry)

Procurement time for critical items

Work by the Government, or utility agencies, and other third parties that may affect or be affected by Contractor's activities.

Government furnished materials and equipment using delivery dates indicated in "FAR 52.245-2, Government Furnished Property (Fixed-Price Contract)."

Pre-Start Meetings with Major Subcontractors (e.g. mason, carpenter, roofer, plumber, and electrician)

Activity durations not in excess of 14 calendar days, except non-construction activities such as procurement and fabrication. Activities shall be broken down in the level of detail prescribed by COR.

A narrative that explains the basis for Contractor's determination of construction logic, estimated durations, estimated quantities and production rates, hours per shift, workdays per week, and types, numbers, and capacities of major construction equipment to be used. A listing of non-working days and holidays incorporated into the schedule shall be provided.

Mechanical Testing & Balancing Report Submitted

Mechanical Testing & Balancing Approval (21 day duration)

Draft Operation and Maintenance (O&M) Manuals Preparation

Draft O&M Manual Review

Corrected O&M Manuals Preparation

Corrected O&M Manual Review (Reviewed as part of final inspection)

Final O&M Manual Submission (14 days)

Request for Final Inspection (minimum of 14 days prior to requested date)

Final Inspection (3 days)

Instruction to Government Personnel

Correct Punchlist (14 days)

Coast Guard Acceptance (On or before contract completion date)]

2.1.3.1 Final Inspection

2.1.3.1.1 Contractor Self-Inspection. Prior to the completion date of each task order, the Contractor's Quality Control Manager shall conduct a self-inspection of the site and document all items needing correction by means of a punch list. The corrected punch list shall be provided to the Contracting Officer's Representative at the same time the pre-final inspection is requested. All punch list items must be corrected prior to requesting the pre-final inspection.

2.1.3.1.2 The Contractor and the Contracting Officer's Representative will jointly conduct a pre-final inspection prior to requesting a final inspection. Any item needing correction shall be noted on the Pre-Final Inspection Punch List. Any discrepancies noted will be corrected prior to any final inspection. The Contracting Officer Representative may schedule more than one pre-final inspection if he determines it necessary.

2.1.3.1.3 The final inspection activity will only be held after the following events have occurred. Contractor shall ensure that all applicable activities are indicated as predecessors:

- Facility ready for use for intended purpose.
- All systems are operational.
- All Test & Inspection Reports received.
- Mechanical Testing & Balancing Report has been approved.
- Commission Reports complete
- All submittals approved.
- Up to date as-built drawings at the site.
- Corrected O&M Manuals submitted to the Government.
- Receipt of a letter from the contractor at least 2 weeks in advance requesting the inspection occur.

2.1.3.1.4 When the Contractor is ready for final inspection, a request final inspection shall be made in writing to the Contracting Officer and Contracting Officer's Representative (COR). A copy of the Pre-Final Punch List shall be attached to this request with the corrective action taken noted. The final inspection will be requested at least 2 weeks before the desired date.

2.1.3.1.5 The final inspection shall be performed by the COR and other Government representatives as appropriate. The Contractor shall be available to take part in the final inspection, at the request of the COR. Any discrepancies noted will be corrected within the time specified in each task order for the completion of work.

2.2 REPORTS

2.2.1 Narrative Report

A narrative report shall be provided with all schedule revision submissions to identify and explain the changes from the previously approved schedule. The report shall identify each changed activity by ID number, description, and the specific change. The narrative report shall be sorted by ID number.

2.2.2 Logic Report

A logic report shall be provided with the original complete network schedule submission and all subsequent revisions. The report shall be generated with the schedule software, sorted by ID number and include the ID number, activity description, predecessor activity ID number(s), and successor activity ID number(s). Critical path activities in shall be highlighted.

2.2.3 Activity Report

An activity report shall be provided with the original complete performance schedule, updated schedule submissions, and revised schedules. A software generated report of the ID number, activity description,

responsibility code, original duration, remaining duration, percent complete, early start date, early finish date, late start date, late finish date, total float or slack, quantity, and units of measure for each activity. Actual start and actual finish dates shall be printed for those activities in progress or completed. The report shall be sorted in ascending order by the total float or slack.

PART 3 EXECUTION

3.1 PROJECT SCHEDULER

Engage a project scheduler, either as Contractor's employee or as Contractor's consultant, to provide planning, evaluation, and reporting using CPM scheduling, and to prepare required schedules.

- A. Project Scheduler shall be an active participant at all meetings related to Project progress, alleged delays, and time impact.
- B. Time-impact analyses and special reports shall be provided at no additional cost to the Government.

3.2 PRELIMINARY MEETING

The contractor shall participate in a preliminary meeting with the Government as part of the preconstruction conference to discuss the proposed schedule and requirements of this section prior to submission of the schedule. The contractor shall notify the Government in writing at least 7 days prior to the preliminary meeting what scheduling software will be utilized for the project.

3.3 MONTHLY SCHEDULE UPDATES

Monthly schedule updates for progress payments shall be prepared in conjunction with the monthly invoice. The contractor and on-site Government representative shall jointly review the update progress schedule to verify the listed actual start dates, percent complete for activities in progress, and actual finish dates for completed activities. Additionally, field verification of the materials stored on-site including required submittals, the material invoices, and material costs for the applicable activity on the schedule of values shall be conducted. Mutual agreement by the contractor and Government representative for each of the entries on the schedule update and payment voucher is desired, however, the Government's estimate of the percent complete for an activity shall govern. Activities not agreed upon shall be so noted by the contractor and initialed by the Government's on-site representative prior to formal submission.

Note: Combination of a schedule update and schedule revision as a single submittal will be immediately rejected and returned to the contractor without review. If a schedule revision is required by the Government or desired by the contractor (concurrently with an update/pay request), it shall be submitted separately for approval by the Government.

3.4 SCHEDULE REVISIONS

3.4.1 Procedures

A revised performance schedule shall be prepared when changes in the approved logic, duration, work schedule, or contract performance time in response to significant deviations from the approved schedule baseline occur. The revised network schedule shall not be utilized for schedule updates until approved by the Government. If a proposed revision is disapproved by the Government, the previously approved network schedule shall continue to be used for monthly updates.

3.4.1.1 Changes in Means and Methods

If changes in the method of operating and scheduling are desired, the Contracting Officer shall be notified in writing stating the reasons for the change. If the Contracting Officer considers these changes to be of a significant nature, the contractor may be required to revise and submit for approval, without additional cost to the Government, the network charts and required sorts.

3.4.2 Contract Modifications

As part of a schedule revision, each contract modification involving either time, money, or both shall be entered into the network schedule as a new activity following the last activity number from the most recent approved schedule. Modifications may be subdivided into multiple activities to facilitate the appropriate logic requirements for the new activities.

3.5 DELAYS AND REQUESTS FOR EXTENSION OF TIME

- A. The determination for an extension of the Contract Time will be made by the Contracting Officer according to the provisions of the Specifications.
- B. Contractor acknowledges and agrees that delays in activities, irrespective of the party causing the delay, which according to the computer mathematical analysis do not affect any critical activity or milestone dates on the CPM network at the time of the delay, shall not become the basis for an extension of the Contract Time. The only basis for any extension of time will be the demonstrated impact of an excusable delay on the critical path. In demonstrating such impact, Contractor shall provide adequate detail as required by the Contract, and Contractor must prove that:
 - 1. An event occurred.
 - 2. Contractor was not responsible for the event in that the event was beyond the control of Contractor, and was without fault or negligence of Contractor, subcontractor, or supplier, and the event was unforeseeable.
 - 3. The event was the type for which an excuse is granted according to the "Default" provision of this Contract.
 - 4. Activities on the critical path of the Work were delayed.
 - 5. The event in fact caused the delay of the Work.
 - 6. The requested additional time is an appropriate and reasonable extension of the Contract Time, given the actual delay encountered.

3.5.1 Time Extensions for Unusually Severe Weather

- 3.5.1.1 If unusually severe weather conditions are the basis for a request for an extension of the Contract Time, such request shall be documented by data substantiating that weather conditions were abnormal for the period of time and could not have been reasonably anticipated, and that weather conditions had an adverse effect on the critical activities of the scheduled construction.
 - 3.5.1.2 The schedule of anticipated adverse weather below will constitute the base line for monthly (or a prorated portion thereof) weather/time evaluation by the Contracting Officer. On issuance of the Notice to Proceed and continuing throughout the Contract on a monthly basis, actual adverse weather days will be recorded by Contractor on a calendar day basis (include weekends and holidays) and compared to the monthly anticipated adverse weather days set forth below.
 - 3.5.1.3 Unusually severe weather will be considered unforeseeable and unusually severe if it is more severe than the statistical 3-year average for the appropriate weather parameters established by the National Weather Service.
- A. For purposes of this clause, the term "actual adverse weather days" shall include days that can be demonstrated to have been impacted by adverse weather.
 - B. The number of actual adverse weather days shall be calculated chronologically from the first to the last day in each month. Contractor shall not be entitled to any claim for time extension based on adverse weather unless the number of actual adverse weather days exceeds the number of anticipated adverse weather days, and unless such adverse weather days prevent work for 50 percent or more of Contractor's workday. In preparing the Contract Schedule, Contractor must reflect the above anticipated adverse weather days on all weather-dependent activities. Weather-caused delays shall not result in any additional compensation to Contractor.
 - 1. On days where adverse weather is encountered, Contractor shall list all critical activities under progress and shall indicate the impact adverse weather had, if any, on the progress of such activities. This information must be presented at the end of the adverse weather day to COR or its authorized representative for its review and approval.

2. If Contractor is found eligible for an extension of the Contract Time, the Contracting Officer will issue a modification extending the time for Contract completion. The extension of time will be made on a calendar day basis.

C. Required Submittals

1. Provide a written Time Impact Analysis (TIA) illustrating the influence of each change or delay on the Contract completion date or milestones, using the current updated Project Schedule. Each TIA shall include a fragnet demonstrating how the Contractor proposes to incorporate the changes or delays into the Project Schedule. A fragnet is defined as a sequence of new activities and/or activity revisions that are proposed to be added to the existing schedule to demonstrate the influence of delay and the method for incorporating delays into the schedule as they are encountered. The TIA shall be submitted with the cost proposal for each proposed change or delay. Incorporate contract modifications into subsequent monthly updates only after approval by the Contracting Officer. Contract Modifications shall be added as items posted at the bottom of the original schedule with new activity numbers
2. Include with request, two copies of submittal of impacted schedule, in electronic format, and photocopies of all relevant documents that support the claim.
3. Submit all required items within the following time periods:
 - a. 10 calendar days of event occurrence.
 - b. 10 calendar days of Contractor's knowledge of impact.
 - c. 14 calendar days of written request by COR.
4. Expiration of time periods without submittal shall constitute forfeiture of rights for these specific impacts.

End of Section

SECTION 01330 DESIGN-BUILD SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 PERMIT, DESIGN AND CONSTRUCTION SUBMITTALS REQUIRED

- A. Permit Submittals. See requirements in Section 01800, Paragraph 1.18, titled "ENVIRONMENTAL PERMITS, CONTROLS, AND PROTECTION" for required permit submittals.
- B. Design Documents. See requirements in Section 01802 for required design submittals, quantities of design submittals and other pertinent requirements.
- C. In-Progress Construction Submittals. After the design is submitted and accepted by the Government; submit any technical data, catalog cuts, manufacturers test reports, concrete trip tickets, etc., required and approved by the designer of record.
- D. Use the standard Coast Guard submittal forms as cover sheets on all submittals required and approved by the designer of record when submitting for information only copies of submittals. Number submittals sequentially. When re-submitting a submittal due to rejection, keep the same submittal number with the suffix "rev (#)", where the # is the appropriate revision number. Keep track of all submittals sent and received on the submittal register. The In-Progress submittals will be determined and numbered by the designer of record.
- E. See section 01321 Design-Build Schedule Progress for additional information. Update the design-build schedule and equipment delivery schedule at weekly intervals or when schedule has been revised. Reflect any changes occurring since the last update.
- F. Shop Drawings are defined in FAR clause 52.236-21 "Specifications and Drawings for Construction."

1.2 TIMING OF SUBMITTALS

Submit submittals in sufficient time and in such sequence to avoid delays in the work. Submittals, test reports and certifications shall be submitted and approved prior to payment for the applicable item.

Except when substitutions or deviations are involved, submittals requiring approval by the contracting officer will be reviewed and returned to the contractor within 3 weeks.

1.3 DEFINITIONS

1.3.1 Types of Submittals

All submittals are classified as indicated in paragraph "Submittal Descriptions (SD)". Submittals also are grouped as follows:

- A. Shop drawings: As used in this section, drawings, schedules, diagrams, and other data prepared specifically for this contract, by contractor or through contractor by way of subcontractor, manufacturer, supplier, distributor, or other lower tier contractor, to illustrate portion of work.
- B. Product data: Preprinted material such as illustrations, standard schedules, performance charts, instructions, brochures, diagrams, manufacturer's descriptive literature, catalog data, and other data to illustrate portion of work, but not prepared exclusively for this contract.
- C. Samples: Physical examples of products, materials, equipment, assemblies, or workmanship that are physically identical to portion of work, illustrating portion of work or establishing standards for evaluating appearance of finished work or both.
- D. Administrative submittals: Data presented for reviews and approval to ensure that administrative requirements of project are adequately met but not to ensure directly that work is in accordance with design concept and in compliance with contract documents.

1.3.2 Submittal Descriptions (SD)

1.3.2.1 SD-01 Preconstruction Submittals

- a) Certificates of insurance
- b) Surety bonds
- c) List of proposed subcontractors
- d) List of proposed products
- e) Construction Progress Schedule
- f) Submittal schedule
- g) Schedule of prices
- h) Health and safety plan
- i) Work plan
- j) Quality control plan
- k) Environmental protection plan

1.3.2.2 SD-02 Shop Drawings

- a) Drawings, diagrams and schedules specifically prepared to illustrate some portion of the work.
- b) Diagrams and instructions from a manufacturer or fabricator for use in producing the product and as aids to the contractor for integrating the product or system into the project.
- c) Drawings prepared by or for the contractor to show how multiple systems and interdisciplinary work will be coordinated.

1.3.2.3 SD-03 Product Data

- a) Catalog cuts, illustrations, schedules, diagrams, performance charts, instructions and brochures illustrating size, physical appearance and other characteristics of materials or equipment for some portion of the work.
- b) Samples of warranty language when the contract requires extended product warranties.

1.3.2.4 SD-04 Samples

- a) Physical examples of materials, equipment or workmanship that illustrate functional and aesthetic characteristics of a material or product and establish standards by which the work can be judged.
- b) Color samples from the manufacturer's standard line (or custom color samples if specified) to be used in selecting or approving colors for the project.
- c) Field samples and mock-ups constructed on the project site establish standards by which the ensuring work can be judged. Includes assemblies or portions of assemblies which are to be incorporated into the project and those which will be removed at conclusion of the work.

1.3.2.5 SD-05 Design Data

Calculations, mix designs, analyses or other data pertaining to a part of work.

1.3.2.6 SD-06 Test Reports

- a) Report signed by authorized official of testing laboratory that a material, product or system identical to the material, product or system to be provided has been tested in accord with specified requirements. (Testing must have been within three years of date of contract award for the project.)

- b) Report which includes findings of a test required to be performed by the contractor on an actual portion of the work or prototype prepared for the project before shipment to job site.
- c) Report which includes finding of a test made at the job site or on sample taken from the job site, on portion of work during or after installation.
- d) Investigation reports
- e) Daily checklists
- f) Final acceptance test and operational test procedure

1.3.2.7 SD-07 Certificates

- a) Statements signed by responsible officials (including DOR for design data) of manufacturer of product or design, system or material attesting that product or design system or material meets specification requirements. Must be dated after award of project contract and clearly name the project.
- b) Document required of Contractor, or of a supplier, installer or subcontractor through Contractor, the purpose of which is to further quality of orderly progression of a portion of the work by documenting procedures, acceptability of methods or personnel qualifications.
- c) Confined space entry permits.

1.3.2.8 SD-08 Manufacturer's Instructions

Preprinted material describing installation of a product, system or material including special notices, and Material Safety Data sheets concerning impedances, hazards and safety precautions.

1.3.2.9 SD-09 Manufacturer's Field Reports

- a) Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
- b) Factory test reports.

1.3.2.10 SD-10- Operation and Maintenance Data

Data intended to be incorporated in operations and maintenance manuals.

1.3.2.11 SD-11 Closeout Submittals

- a) Documentation to record compliance with technical or administrative requirements or to establish an administrative mechanism.
- b) As-built drawings

1.3.2.12 SD-12 Facilities Preventive Maintenance Program (FPMP)

Development and completion of SAM's Equipment Enrollment forms and new Job Plans, development and completion of biddable scopes of work.

1.3.3 Request for Information (RFI)

An RFI is a request from the contractor or a subcontractor to the Government seeking an interpretation or clarification of some requirement of the contract documents. The contractor shall clearly and concisely (e.g. citing specifications and/or drawing references) set forth the issue for which clarification or interpretation is sought and why a response is needed from the Government. The contractor shall, in the written request, set forth their interpretation or understanding of the contract's requirements, along with reasons why such an understanding has been reached. Responses from the Government will not change any requirements of the contract documents unless so noted in the Request for Information response by the Government. Responses to contractor inquiries shall be as outlined in paragraph 3.4 of this section.

1.3.4 Drawing/Plan Clarification

An answer from the Government, in response to an inquiry from the contractor, intended to make some requirement(s) of the drawings or plans clearly understood. Drawing/plan clarifications may be sketches, drawings, or in narrative form and do not change any requirements of the drawings or plans. Responses to contractor inquiries shall be as outlined in paragraph 3.4 of this section.

1.3.5 Field Changes/Adjustments

A bilateral agreement between the Government and prime contractor which involve minor changes in the plans and specifications to facilitate the proper execution of work; does not change scope, time, quality or price; and, does not affect terms or conditions of the contract. Field changes are normally prepared by the COR/Government inspector and are effective upon signature by the Coast Guard Project Manager and the prime contractor's authorized representative. Combining of changes to achieve the no impact requirement is not allowable. Deviations in material or means and methods of execution shall not be authorized by use of field changes.

1.4 SUBMITTAL REGISTER

A submittal register will be provided by the contractor on or before the pre-construction conference following award of the contract. Required submittals are identified on the cover sheet of the drawings. The contractor shall indicate critical submittals to the Contracting Officer with dates to be submitted and critical dates for approval prior to the pre-construction conference. Maintain at the site an up-to-date Submittal Register showing the status of all submittals.

1.5 MAILING REQUIREMENTS

Submittals shall be submitted as follows:

Item	Submitted to for Approval	Copies Required
Permits per section 01800	Contracting Officer (KO)	See 01800 and/or Paragraph 1.7 below for quantity of permits required
Design Submittals per section 01802	KO	See applicable sections and/or paragraph 1.7 below for quantity requirements
Submittals required by sections 01110 or 01330 or FAR clause (i.e. Schedule of Values, Progress schedules, Payment vouchers, etc.)	KO	See applicable sections and/or paragraph 1.7 below for quantity requirements
Sample Panels or Installations	COR (or GC Inspector) at Site	One per discipline or trade
Technical Construction Type: catalog cuts, shop drawings, calculations and certificates required by the DOR except Sample Panels or Installations	Designer of Record (DOR) for approval	KO & COR (or GC Inspector) at Site (with DOR's annotations)

Test Reports (Factory & Field),
Certificates required by DOR

DOR for approval

KO & COR (or GC Inspector)
at Site (with DOR's
annotations)

1.6 IDENTIFYING SUBMITTALS

Identify submittals requiring contracting officer approval, except sample panel and sample installation, with the following information permanently adhered to or noted on each separate component of each submittal and noted on the transmittal form. Mark each copy of each submittal identically, with the following:

- A. Project title and location.
- B. Construction contract number.
- C. The section number of the specification from which the submittal is required.
- D. The submittal description (SD) number of each component of the submittal.
- E. When a resubmission, an alphabetic suffix on the submittal description, for example, SD-10A, to indicate the resubmission.
- F. The name, address, and telephone number of the subcontractor, supplier, manufacturer and any other second tier contractor associated with the submittal.

1.6.1 Format for Design Data (only for design data requiring Contracting Officer approval)

1.6.1.1 Present design data submittals for each section as a complete, bound volume. Include a table of contents listing design data.

1.6.1.2 Supplement design data with material prepared for the project to satisfy submittal requirements for which design data does not exist. Identify this data as developed specifically for the project.

1.6.2 Format for Product Data (only for product data requiring Contracting Officer approval)

1.6.2.1 Present product data submittals for each section as a complete, bound volume. Include a table of contents listing page and catalog item numbers for product data.

1.6.2.2 Indicate, by prominent notation, each product which is being submitted; indicate the specification section number and paragraph number to which it pertains.

1.6.2.3 Supplement product data with material prepared for the project to satisfy submittal requirements for which product data does not exist. Identify this material as developed specifically for the project.

1.6.3 Format for Shop Drawings (only for shop drawings requiring Contracting Officer approval)

1.6.3.1 Shop drawings shall not be less than 8 1/2 by 11 inches nor more than 30 x 42 inches and shall be drawn to a minimum scale of 1/8-inch equals 1 foot.

1.6.3.2 Present 8 1/2 x 11 inches sized shop drawings as part of the bound volume for the submittals required by the section. Present larger drawings in sets.

1.6.3.3 Include on each drawing the drawing title, number, date, and revision numbers and dates, in addition to the information required in the paragraph entitled "Identifying Submittals."

1.6.3.4 Dimensional drawings, except diagrams and schematic drawings; prepare drawings demonstrating interface with other trades to scale. Identify materials and products for work shown.

1.6.4 Format of Administrative Submittals:

When the submittal includes a document that is to be used in the project or becomes a part of the project record, other than as a submittal, do not apply the Contractor's approval stamp to the document, but to a separate sheet accompanying the document.

1.7 QUANTITY OF SUBMITTALS

1.7.1 Number of Copies of Design Data:

Submit two hardcopies and an electronic cd of design data requiring review and approval by the Contracting Officer. One will be returned to the Contractor.

1.7.2 Number of Copies of Product Data:

Submit two hardcopies and an electronic cd of product data requiring review and approval by the Contracting Officer. One will be returned to the Contractor.

1.7.3 Number of Copies of Shop Drawings

Submit shop drawings in compliance with the quantity requirements specified for product data.

1.7.4 Number of Copies of Administrative Submittals:

1.7.4.1a. Unless otherwise specified, submit the administrative submittals in compliance with the quantity requirements specified for product data.

1.7.4.2b. Submit administrative submittals required under "SD-19, Operation and Maintenance Manuals" to conform to section 01781, "Operation and Maintenance Data."

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS FOR SUBMITTALS REQUIRING CONTRACTING OFFICER APPROVAL

3.1.1 Contractor Review and Certification

Review and certify all submittals before submitting them to the CEU MIAMI Construction Project Manager. Word the certification as follows:

I certify that the material or equipment shown and marked in this submittal is the same as that proposed to be incorporated into Contract Number [____], complies with the contract documents, can be installed in the allocated space, and is submitted for Government approval.

Certified by _____ Date _____

The certification shall be signed by the person designated in writing by the contractor as having that authority. Stamp each sheet of submittals except that data submitted in a bound volume or on one sheet printed on two sides may be stamped on the front of the first sheet only. The signature shall be in original ink. Stamped signatures are not acceptable. Submittals will not be processed unless this review and certification has been provided by the contractor.

3.1.2 Design Submission Transmittal or Material Approval Request

3.1.2.1 Every design submittal shall be accompanied by a Design Submission Transmittal form completed in full.

3.1.2.2 Every construction submittal shall be accompanied by a Material Approval Request form completed in full (even if approved by the Designer of Record).

3.1.2.3 Design Submission Transmittal forms and Material Approval Request forms will be provided to the Contractor either as hardcopy or electronic format.

3.1.2.4 For construction submittals requiring Government review only, do not submit items from more than one specification section on the same Material Approval Request Form.

3.1.2.5 As far as practical, submit all submittals for each section as one submission. Each item included with each submittal shall be listed as a separate line item on the Material Approval Request form.

3.1.2.6 In addition to the information to be provided on the Material Approval Request form, submittals shall include the following information:

- a) Names of contractor, supplier, or manufacturer, as applicable.
- b) Identification of revisions on resubmittals.
- c) Identification of Substitution or Deviation: If an item submitted is a substitution or deviation from contract requirements, stamp "Substitution" on the submittal and note and explain the reasons for and details of the substitution or deviation, a list of sources contacted to obtain specified product, a cost comparison, identify variations from contract requirements and changes required in other work or products. In submitting substitutions or deviations, the contractor represents that he/she will coordinate the installation of accepted substitutions or deviations, and additional costs or delays caused by the substitution or deviation will not constitute grounds for any adjustments to the contract price.

NOTE: Substitutions or deviations require approval of the Contracting Officer and if allowed will require a contract modification. Substitutions or deviations may increase the processing time for reviewing submittals.

3.1.3 Resubmittals

Make changes and corrections required by Approving Authority. Indicate changes made which were not requested. Resubmit as originally specified. Use same submittal number as initial submittal except add a suffix of -A, -B, etc. for each subsequent resubmittal. Contractor may be subject to payment of costs incurred by the Government for the review of design or construction resubmittals. Stamp/mark resubmittals as "RESUBMITTAL".

3.2 SUBSTITUTION OR DEVIATION:

If an item submitted is a substitution or deviation from contract requirements, stamp "Substitution" on the submittal and note and explain the reasons for and details of the substitution or deviation, a list of sources contacted to obtain specified product, a cost comparison, identify variations from contract requirements and changes required in other work or products.

- A. Substitutions or deviations require approval of the Contracting Officer and if allowed will require a contract modification. Substitutions or deviations may increase the processing time for reviewing submittals.
- B. In submitting substitutions or deviations, the contractor represents that he/she will coordinate the installation of accepted substitutions or deviations, and additional costs or delays caused by the substitution or deviation will not constitute grounds for any adjustments to the contract price.

3.3 REQUESTS FOR INFORMATION (RFI)

In the event that the contractor, subcontractor, or supplier, at any tier, determines that some portion of the drawings, specifications, or other contract documents require clarification or interpretation by the Government, the contractor shall submit a Request for Information in writing to the Contracting Officer's Representative.

3.3.1 RFI Submittal

3.3.1.1 Requests for Information may only be submitted by the contractor and shall only be submitted on the Request for Information form provided by the Government.

- a) The contractor shall clearly and concisely set forth the issue for which clarification or interpretation is sought and explain why a response is needed from the Government.
- b) In the Request for Information, the contractor shall set forth their interpretation or understanding of the requirement, along with reasons why such an understanding has been reached.

3.3.1.2 The Government will review all Requests for Information to determine whether they are requests for information within the meaning of this term. If the Government determines that the document is not a Request for Information or missing required information from the contractor, it will be returned to the contractor, unreviewed as to content, for resubmittal in the proper manner (i.e. submittal, request for deviation, etc.).

3.3.2 RFI Response

3.3.2.1 Responses to requests for information shall be issued within 10 days of receipt of the request from the contractor, unless the Government determines that a longer period of time is necessary to provide an adequate response. If a longer period of time is determined necessary by the Government, the Government will, within 10 days of receipt of the request, notify the contractor of the anticipated response time. The 10 days referred to herein will start on the date stamped received "in from the contractor" by the Government.

3.3.2.2 If the contractor submits a Request for Information on an activity with 10 days or less of float on the current project schedule, the contractor shall not be entitled to any time extension due to the time it takes the Government to respond to the request, provided that the Government responds in the 10 days set forth above.

3.3.2.3 Responses from the Government will not change any requirement of the contract documents unless so noted in the response to the Request for Information. If noted as a change, the Government will issue either a no-cost Field Adjustment or formal modification under the Changes clause of the contract. If the contractor believes that a response to a Request for Information will cause a change to the requirements of the contract documents, the contractor shall immediately give written notice to the Contracting Officer stating that the contractor considers the response to be a change order. Failure to give such written notice immediately shall waive the contractor's right to seek additional time or cost under the Changes clause of the contract.

END OF SECTION

SECTION 01450
QUALITY CONTROL

PART 1 GENERAL

1.1 QUALITY PROGRAM

1.1.1 This contract will be administered under Section E contract clause 52.246-12 "Inspection of Construction."

1.1.2 Quality assurance and quality control is the responsibility of the contractor. Establish a method for monitoring the work to ensure compliance with contract requirements. Quality Assurance will be administered under Contract Clause FAR 52.246-12, Inspection of Construction. Provide a separate dedicated, Quality Assurance Manager on-site dedicated to insuring conformance with the contract requirements. The contractor's Quality Assurance Manager (QAM) must keep separate files on the quality assurance actions taken. These files should include internal non-compliance records, verification of material compliance with the approved submittals, verification of compliance with testing requirements, and remedial direction provided for non-compliant work. These files must be made available to the COR for review upon request. Failure to perform quality assurance will result in removal of the QAM, and the contractor must provide a replacement at no cost to the government.

1.1.3 Submit your management system indicating the QAMs reporting role, that demonstrates the QAMs performance reviews are separate from the specific project profitability and schedule and are tied to corporate goals of safety and a quality product.

1.1.4 The objective is to guarantee performance of the work to the required Contract standards for materials, workmanship, construction, finish, functional performance and identification. Quality assurance requirements apply to both on-site and off-site fabrication, all construction materials and operations, and specifically includes all required inspections, tests and submittals.

1.1.5 Note: for an activity to be considered one-hundred percent complete the required testing must be complete and the work must fully comply with the Contract requirements.

1.2 APPLICABLE PUBLICATIONS

1.2.1 AMERICAN SOCIETY for TESTING and MATERIALS (ASTM):

ASTM E329 - Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction

1.2.2 REFERENCES

ASTM C1077 Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation

ASTM D3666 Standard Practice for Evaluation of Inspection and Testing Agencies for Bituminous Paving Materials

ASTM D3740 Standard Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction

ASTM E329 Standard recommended Practice for Inspection and-Testing Agencies for Concrete, Steel, and Bituminous Materials Used in Construction

ASTM E543 Standard Practice for Determining the Qualifications of Nondestructive Testing Agencies

ASTM E548 Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies

1.3 PERSONAL QUALIFICATIONS

1.3.1 Quality Assurance Manager (QAM). The QAM role may be designated as a supplemental role to a team member or as a dedicated individual but may not be the same person as the superintendent or project manager. The Quality Assurance Manager must report directly to the principles of the company not to the on-site superintendent.

1.4 SUBMITTALS

Submit the following as specified in section 01330 "Submittal Procedures":

1.4.1 SD-07 Certificates

Laboratory Accreditation.

1.4.2 Construction Quality Control Documents, Test Reports, Factory Test Reports, Field Test Reports, and Field Inspections

1.4.3 FIELD TESTING LOG

1.4.3.1 Field test reports and field inspections conducted and submitted at the job-site on the same day, shall be attached to the Daily Construction Report in lieu of submission using a Material Approval Request form.

1.4.3.2 Review the project documents and prepare a list of the required field tests. Submit this annotated log with your other Preconstruction submittals. Tie the testing into the Project Schedule Baseline; refer to the instructions on the reverse side of the Form CD-24, Testing Log. The Testing Log shall be signed by your Quality Assurance Manager.

1.4.3.3 Consider this list an As-Built for the Contract and maintain it daily as a log of testing. In the event of a discrepancy between the list and the contract documents, the contract documents take precedence. Submit the As-Built test log at Final Inspection.

PART 2 PRODUCTS

2.1 QUALITY ASSURANCE AND QUALITY CONTROL DOCUMENTATION

2.1.1 CONTRACTOR'S DAILY REPORTS (CONSTRUCTION)

The contractor shall fill out Daily Report using Form CM-03. Submit copies of the report to the COR/CI inspector by 8:00 a.m. on the first work day after the day the work was performed. E-mail a copy directly to the FDCC CM. Utilize the activity number from the approved progress schedule baseline, and the actual start and finish dates for the work performed. Sample forms will be provided to the contractor electronically.

2.1.2 CONTRACTOR'S WEEKLY CONSTRUCTION REPORTS

The contractor shall fill out Form CM-02. This report should indicate any specific items completed in the week. The description should be general and indicate any issues with the work that week. Insert a picture of any significant progress of an activity item. Provide a copy of the report to the COR/CI by 7:00 am of the Monday following the work week. E-mail a copy to the FDCC CM.

2.2 TEST REPORTS

STA Grand Isle, LA

2.2.1 Reports must cite the Contract requirements, the test or analysis procedures used, and the actual test results. For each report, stamp conspicuously on the cover sheet in large red letters "CONFORMS" or "DOES NOT CONFORM." Reports must be signed by the authorized representative of the testing laboratory. (Use Form CM-08)

2.2.2 Unless otherwise specified, certified tests performed earlier than one year prior to the Contract Award date are not acceptable.

2.2.3 Information Required

After each inspection or test, provide the COR/CI with a report that includes the following.

- a) date of report
- b) project title and contract number
- c) name of inspector
- d) date and time of test, sampling or inspection
- e) product identification and applicable specification section and paragraph
- f) location of inspection or test
- g) type of inspection or test
- h) results of inspection or test
- i) statement of conformance or nonconformance with contract requirements
- j) signature of contractor reviewer.

PART 3 EXECUTION

3.1 TESTING, INSPECTION AND LABORATORY ACTIVITIES

3.1.1 Provide all necessary equipment, instruments, qualified personnel, facilities, and test fluids and gases, and perform all inspections, sampling, testing, and certifications specified in the individual sections. Provide the services of independent testing laboratories, subject to the Contracting Officer's approval, to perform all specified inspection and testing.

3.1.2 The following are the requirements for specific parts of the work.

- a) technicians inspecting concrete delivered to the jobsite must be certified by the American Concrete Institute
- b) laboratories performing tests on electrical components and systems must be certified by the National Electrical Testing Association
- c) manufacturer's representatives must present documentation of their delegated authority
- d) welders, welding operations, and completed welds must be inspected by an AWS Certified Welding Inspector.

3.1.3 Advance Notification and Documentation

Notify the COR at least 48 hours in advance of the dates and times scheduled for all field tests. Note in block 11 of the Daily Construction Report and submit separate reports for each field test or inspection conducted indicating the following information on the report:

- a) Specification Section
- b) Paragraph Number

STA Grand Isle, LA

- c) Name of the Test or Inspection
- d) Location of Test (provide sketch if necessary to clearly document location at the site)
- e) Name of Inspector/Technician
- f) Name of Laboratory, if applicable
- g) Date and Time of the Inspection/Test
- h) Minimum Requirements/Acceptable Test Results
- i) Actual Inspection/Test Results
- j) Statement indicating whether or not the work meets the specified requirements

3.1.4 Testing Labs

Provide an independent construction materials testing laboratory accredited by a laboratory accreditation authority to perform sampling and tests required by this Contract. Laboratories engaged in testing of construction materials shall meet the requirements of ASTM E329. Laboratories engaged in Hazardous Materials Testing shall meet the requirements of OSHA and EPA.

3.1.5 Repeated Tests and Inspections

Repeat tests and inspections after each correction made to nonconforming materials and workmanship until tests and inspections indicate the materials, equipment, and workmanship meet contract requirements. Repeated tests and inspections shall be performed at no additional cost to Government.

3.1.5.1 Do not cover or conceal work until required tests and inspection results indicate that the work conforms to contract requirements.

3.1.6 [Statement of Special Inspection]

3.1.6.1 Provide a "Statement of Special Inspection" in accordance with International Building Code Section 1704 to be approved by the COR. The contractor may use CASE Form 101 or other similar form for this purpose. The statement shall be prepared and sealed by the Designer of Record

3.1.6.2 Inform the COR/CI daily of inspections and tests performed. Provide the COR/CI with the results and reports when they become available. Record in the Daily Construction Report all inspections and tests performed and their results. Maintain records of all onsite inspections and tests and make them available to the COR/CI. Submit test and inspection reports as required below and per the Technical Sections. Monitor the inspection effort with the COR/CI.

3.1.6.3 Laboratories must be in compliance with the above ASTM references and must maintain a full-time registered engineer on staff to review the required services. Calibrate testing equipment at reasonable intervals with devices of an accuracy conforming to NIST or industry standards.

3.2 DAILY INSPECTION REPORTS

Fill out Daily Construction Report (DCR) forms (CM-03) as documentation and submit the forms to the Government inspector by 8:00 a.m. on the first work day after the day the work was performed. Block 7 of the DCR shall include the description and activity number from the approved progress schedule, and the actual start and finish dates for the work performed. Sample forms are at the end of this Section. Daily Construction Report forms will be furnished to the Contractor.

STA Grand Isle, LA

3.2.1 Nonconformance Notice

3.2.1.1 No payment will be made for an activity that is non-compliant. A Notice of Non-Compliance on Form CM-12 will be issued for non-compliant work.

3.2.1.2 A notice issued by the Contracting Officer's Representative documenting that the work, or some portion thereof, has not been performed in accordance with the requirements of the contract documents. Sample forms are at the end of this Section. Payment shall not be made on any portion of the work for which a nonconformance notice has been issued and the work not corrected to the satisfaction of the Contracting Officer's Representative. Upon receipt of a Nonconformance Notice, the contractor shall provide a written response within 7 days. The contractor's response shall detail either (a) why they believe that the work was performed in accordance with the contract documents, or (b) what corrective action they intend to take, at their sole expense, to correct the nonconforming work. If the contractor disputes issuance of the notice, the Government will respond by either (a) withdrawing the Notice of Nonconformance or (b) directing the contractor to correct the work. If directed to correct the work, the contractor shall do so within 7 days after receipt of such direction from the Contracting Officer, or such other time as may be agreed to with the Contracting Officer.

3.2.2 Field change/request for deviation/request for variation

Variations are changes to contractor's approved design or construction processes that do not affect compliance with meeting terms of the contract or request for proposal. This form attached to the end of this specification section provides a record of the variations to ensure the as-built documents are accurate. **Deviations** are requests for changes to the contract terms that must be authorized by the contracting officer. **Field changes** involve minor changes, which are necessary for the proper execution of work, that do not affect the quantity, quality, price, or time of performance of the Contract. Should the Contractor feel a field change represents a cost or additional time, he should notify the C.O.R. and request a formal change to the contract.

End of Section

SFRL:

DAILY CONSTRUCTION REPORT (CM-03)

Box 7 - Indicate contractor or trade responsible for work described in Box 8. Note all deficiencies where indicated.

1. Contractor	2. Report No.	3. %Complete
---------------	---------------	--------------

4. Contract No.	Project Title	Location	5. Date
-----------------	---------------	----------	---------

6. Weather:	A.M.	Temperature	P.M.	Temperature
-------------	------	-------------	------	-------------

7.	Contractor or Subcontractor	Location & Description of Work Performed Today	Worker Class	No. of Workers	Total Hours

Project Title
Project Location

SFRL:

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8. Equipment Used on Site

9. Idle Equipment & Personnel on job

10. Spec Para and/or
Dwg No.

MATERIAL DELIVERED TO SITE

Submittal No.

11. Spec Para and/or
Dwg no.

Inspection and Tests
Performed

Tester

Results

Project Title

SFRL:

Project Location

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12. Directives Received or Issues:

13. Remarks: Include Visitors & Compliance Notices

14. I certify this report to be complete and accurate, and all equipment and material used, and all work performed during this report period are in compliance with the contract documents to the best of my knowledge, except as noted above.

Date

Superintendent

15. Spec Para and/or Dwg No.	DISCREPANCIES DISCOVERED Location	Nature of Discrepancy
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16. Contractor's Proposed Remedial

17. Corrective Action Taken

Project Title
Project Location

SFRL:

18. COR/Govt Inspector Remarks (attach additional sheets as required)

COR/Govt Inspector	Date	PM	Contract Spec
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Page 2 of _____

Routing: Original to Contracting Officer Copy – Contractor Copy – COR

Project Title
Project Location

SFRL:

NOTICE OF NONCONFORMANCE (CM-12)

NOTICE NO.

PROJECT TITLE:

CONTRACT NO: HSCG47-

CONTRACTOR: _____

NONCONFORMANCE INFORMATION

DRAWING
REFERENCE

SPECIFICATION
SECTION

CONDITION REQUIRING CORRECTION:

GOVERNMENT REPRESENTATIVE: _____

(SIGNATURE)

DATE

ACKNOWLEDGEMENT

I ACKNOWLEDGE RECEIPT OF THIS NOTICE.

CONTRACTOR'S REPRESENTATIVE: _____

(SIGNATURE)

DATE

Project Title
Project Location

SFRL:

CORRECTION INFORMATION

RESOLUTION:

GOVERNMENT REPRESENTATIVE: _____

(SIGNATURE)

DATE

Routing: Original to Contracting Officer Copy – Contractor Copy - COR

SECTION 01505
PROJECT MEETINGS

1.1 POST-AWARD CONFERENCE

The Post-Award Conference shall be at the contractor's office and will be primarily to familiarize project team members with each other and assist in the development of effective working relationships.

1.2 DESIGN KICK-OFF CONFERENCE

The Design Kick-Off Conference, if required by the Government, will be held on site or at the CEU MIAMI. The purpose of the meeting is to go over the project scope after your design team has visited the site and is well informed on the overall intent of the project. The meeting purpose is to insure that there is reasonable alignment on the scope of work prior to the initial Design/Build submittal.

1.3 PRECONSTRUCTION CONFERENCE

1.3.1 General Requirements: The Preconstruction Conference will be held at the site. Attendees will include the following.

Contractor's project management team

Subcontractors, as deemed necessary by the contractor

Government project management team

1.3.2 See Section 01330 for a description of required preconstruction submittals. Preconstruction submittals must be received and approved prior to the Preconstruction Conference. See Section 01330 for the required timing of those submittals.

1.3.3 On-site work and any request for progress payments depend on successful completion of the preconstruction requirements and the approval of preconstruction submittals by the Government.

1.3.4 Scope of Meeting Discussion will cover the following.

Proposed Project Schedule

List of Technical Submittals

Contract administration Issues

Request For Information process

Any request for variance from original contract

1.3.5 Meeting Minutes: The Contractor shall draft minutes of the Preconstruction Conference and provide them to the Government for review and agreement.

1.4 MONTHLY PROGRESS MEETINGS (CONSTRUCTION)

1.4.1 Attend monthly coordination meetings at the COR/CI's on-site office. Meetings will be used to review the following.

Project Schedule update

Status of submittals/catalog cuts and RFI's

Pending modifications

Request for Progress Payment

Safety Issues

Compliance issues

1.4.2 Pre-meeting Submissions

1.4.2.1 Comply with the following activity requirements to ensure a productive monthly meeting.

1.4.2.2 Three working days prior to the meeting complete the following:

Deliver the Project Schedule monthly up-date reports to the CM, COR/CI and your DE

Review your Request for Progress Payment with the COR/CI, and deliver to the KO

1.4.2.3 Two days prior to the meeting notify the CM and COR/CI of any other agenda items for discussion.

1.5 LABOR INTERVIEWS

The Government will conduct periodic Labor Standard interviews to insure the on-site workers are being paid the Davis Bacon wage rates, and that the applicable wage rates are properly posted and accessible to the on-site work force. Insure that access to employees and on-site trade personnel is provided upon request.

PART 2 PRODUCTS Not used.

PART 3 EXECUTION Not used.

End of Section

**SECTION 01800
DESIGN/BUILD REQUIREMENTS
PARAGRAPHS 1.1 THRU 1.3**

1.1 GENERAL PROJECT DESCRIPTION AND SCOPE OF WORK / REQUIREMENTS

1.1.1 PROJECT DESCRIPTION

1.1.1.1 The project is located at 453 Admiral Craik drive, Grand Isle, LA 70358

1.1.1.2 Coast Guard Station Grand Isle is currently billeted for 41 active duty personnel (1 commissioned officer and 40 enlisted members) and 4 enlisted reservists. The station operates one 47-foot Motor Life Boat (MLB), one 41-foot Utility Boat (UTB), one 23-foot SAFE boat, and one 18-foot Majek flat boat. The station's primary missions are Search and Rescue, Homeland Security, and Law Enforcement operations. The base encompasses 29 acres and 35,000 square feet of operational and multi-purpose buildings. The following are the buildings and assets this project will focus on:

- The Multi-Purpose (Station) Building –RPUID 11137
- The Unaccompanied Personnel Housing (UPH) Building- RPUID 11148
- The Open Boat Storage Building- RPUID 841031
- The W-Patrol Boat (WPB) Building – RPUID 11139

1.1.2 PROJECT SITE

1.1.2.1 The project site is basically flat, with one point of entry from the main road. the site consists operational and the multi-purpose buildings near water and the back part of the site consists of 5 Coast Guard duplex homes, 9 Coast Guard single family residences, a recreational area with pool, cabana baths and a playground area.

1.1.3 GENERAL SCOPE

The work includes furnishing all labor, tools, equipment, materials, and supervision for station improvements at the U.S. Coast Guard Station Grand Isle, LA, Multi-purpose Building and surroundings:

a. SITE:

- Replace drain & waste line/sewer line (above ground and underground from pot wash sink to grease interceptor. Refer to ATTACHMENT 1; Project Number 1652; Sheet P-1; showing underground lateral from riser to underground grease trap. Refer to Sheet P-2; Plumbing Riser P-10 showing floor drains and fixtures being serviced by the grease interceptor. Repair walls and floors to match existing after pipe replacement.
- Empty, inspect, provide existing dimensions, vacuum test, and provide a written report of existing grease interceptor (underground). Comply with ASTM C1719 *Standard Test Method*.
- During a weekend approved by USCG, clean & blast, cut patch & seal existing cracks, and bond & recoat with epoxy liner interior of grease interceptor.
- The new underground sanitary sewer and riser DWV (drain waste & vent) pipe shall be ASTM A74 service weight cast-iron soil pipe (service rated) with fusion bonded epoxy liner and coat. Pipe and fittings shall be marked with cast iron soil pipe institute (CISPI) trademark and NSF listed. Comply with manufacturer's installation instructions.

b. ARCHITECTURAL:

Multi-Purpose Station Building

- Provide (6) new AHU closets where required in the general vicinity of the space that the unit is serving to minimize existing ductwork rework and optimize the comfort level of the zone each unit serves. Refer to paragraph (f) for more information.
- Provide ductwork in existing dropped ceilings as much as possible. Demolish existing dropped ceilings as required to access existing ductwork and provide new ductwork as required in second floor.
- Replace or repair existing drop ceilings after A/C ductwork is finished.
- Completely gut and rehab the existing Male and Female bathrooms on Second Floor, including all fixtures, finishes, and accessories.
- Expand the Female Bathroom into the adjacent Berthing Room, replace all interior finishes and lighting in the adjacent room as a result of the expansion. Remove existing plumbing fixtures and provide (3) lavs, (2) toilets and (3) showers.
- Remove and replace all ceilings in corridors in kind.
- Patch and paint ceilings at Skylight due to roof leaks.
- Remove and replace all vinyl composition tile (VCT) Floors in corridors in kind.
- Replace the existing roofing system with a new Modified Bitumen Roofing System. Replace existing curbs with new and adjust heights as required.
- Provide new accordion or roll down type storm shutters for Main Entrance into building.
- Service all shutter and repair existing inoperable shutters.
- Replace existing egress door and frame near main entrance with new to match existing. Rebuild existing masonry wall at door opening.

UPH Building:

- Replace the entire substrate wood sheathing with pressure treated plywood throughout balcony in front of Berthing Rooms.
- Replace existing sheet vinyl with new throughout balcony in front of Berthing Rooms.
- Repair, patch, and paint exterior finish system.

WPB Building:

- Replace existing roofing system down to the substrate with a new Modified Bitumen Roofing System.
- Replace existing generator exhaust pipe thru the roof from the thimble under the roof slab to the outside. Provide hinge cover at pipe end. Leave required distances from combustible materials and flash roof penetration as required.

c. LIFE SAFETY & FIRE PROTECTION:

Multi-Purpose Station Building

- Maintain fire separation and repair existing fire wall due to new telecom runs and fire separation as required by code. Identify all fire ratings doors walls, floor ceiling assemblies on drawings for USCG.

d. STRUCTURAL:

Multi-Purpose Station Building

- If Designer of Record (DOR) decides to go with "Roof Top Package Units" instead of Split AHU/ Condenser Units, an X-Ray of the reinforced concrete roof slab shall be performed in order to locate the existing slab reinforcing steel. The exact location of the new openings for the Roof Package Units shall then be determined in order to avoid or minimize cutting existing slab steel. If roof slab steel reinforcing will need to be cut in order to make the openings, the DOR shall evaluate if the roof slab load bearing capacity will be compromised and if so shall propose a method for structurally strengthening any compromised area of roof slab.

Open Boat Storage Building

- Remove existing pre-manufactured steel building.
- Cut and remove remaining anchor bolts and prepare existing slab for new pre-manufactured steel building,
- Provide new pre-manufactured steel building the same width, length, and height as the existing steel building.

e. PLUMBING:

Multi-Purpose Station Building reports leaks and failure from 50-year old water lines and drain waste & vent lines, and shower pans leak.

- Provide temporary bathrooms and showers facilities during construction for USCG personnel. Count of temporary fixtures shall match count of fixtures under construction.
- 2nd floors men's community bathroom: provide all new CW (cold water) & HW (hot water) lines (pipes and tubes) and DWV (drain waste, & vent) lines in walls behind fixtures (lines which pass thru floor to lines above ceiling, including lines above bathroom ceiling), and provide new shower pans, and fixtures to include lavatories, water closets, urinals, showers, and trim. Layout of bathroom to remain.
- 2nd floors women's community bathroom: provide all new CW& HW lines and DWV lines in walls behind fixtures, and provide new shower pans, and fixtures to include lavatories, water closets, showers, and trim. Provide new layout as directed by architect.
- Existing Rheem water heaters (provided 2011-2013) are existing to remain. Verify compliance with code for combustion intake and relief air. Verify and provide CO (carbon monoxide) detectors as per code and good practice; currently there are no CO detectors.
- Replace ware washer Hobart with a new ventless dishwasher with new ½"-¾" cw line similar to Hobart AM15VL. Do NOT replace ware washer until all new equipment and components are on sight. Repair wall & ceiling to match existing so new cold water line can be installed.
- Provide an automatic grease trap (above ground) rated minimum 50 gpm for pot wash sink. System shall be NSF and PDI certified, UL listed and constructed of 304 stainless steel.

f. HVAC.:

Multi-Purpose Station Building Issues uneven heating and cooling, insufficient thermostats for proper zoning, long lead time to replace units, when unit is inoperative, too much disruption (prefer smaller off the shelf units), Supply ductwork leaks into plenum above.

- Provide cooling and heating (as per International energy Code 75° summer and 70°F winter) during construction to all spaces which currently have heating and cooling. Replace two split DX units(AC unit A and AC unit B) with six DX units (split and or package heat pump units) properly sized for summer indoor design of 75 degree cooling and winter indoor design 72 or degree heating. Demolish existing space heating boiler and AC units. Provide HVAC calcs, outdoor air calcs, exhaust calcs, and air balance calcs. All coils shall have minimum 5,000 hours corrosion protection as per ASTM 117b. **Due to USCG operations, the communications office and minimum of four bedrooms (berthing rooms) shall be functional cooled and heated at all times. Coordinate work with USCG COR in advance.**
- Replace and redesign all supply air duct mains in the circular corridor. Ductwork shall be G90 galvanized sheet metal or duct board with matt liner (no fiberglass shall be exposed to airstream). Branch lines may be reused to minimize disruption to station and prevent replacing of ceilings. Insulated flex duct may be used and shall not exceed eight feet in length. All air devices on 2nd floor shall be new and shall be painted white aluminum with a face damper for balancing; no perforated diffusers or perforated returns are allowed, air devices (supply and return) shall be louvered type or multiicone type.
- MP building 2nd floor, AC system designed for total 40 occupants.
- MP building 2nd floor, design and provide new fire dampers and fire rated grilles/registers from corridor into sleeping units (berthing rooms) and other fire rated wall penetrations..

- Galley (kitchen) space: Provide dedicated DX unit (package unit on roof preferred pending structural analysis by AE design team) for space with thermostat with night set back. Add ducted return air. Provide UV lighting on evaporator coil.
- Mess (dining) space: Provide dedicated DX unit (package unit on roof preferred pending structural analysis by AE design team) for space with thermostat with night set back. Add ducted return air. Provide UV lighting on evaporator coil.
- Recreation (training) space: Provide dedicated DX unit (package unit on roof preferred pending structural analysis by AE design team) for space with thermostat with night set back. Add ducted return air.
- Office space: Provide dedicated split DX unit for space with thermostat with night set back. Provided ducted return air.
- Berthing (sleeping units, approximately 5) North space: Provide dedicated split DX unit for rooms with remote thermostat (in mechanical room) with remote air sensor. (no night setback).
- Berthing (sleeping units, approximately 5) East space: Provide dedicated split DX unit for rooms with remote thermostat (in mechanical room) with remote air sensor. (no night setback).
- Replace and resize all bathroom exhaust fans. Replace and resize galley serving line exhaust fan and provide wall mounted variable speed controller.
- Provide new hood fire suppression system with auto shutoff of gas and electric interlocked with FA panel. Clean existing grease exhaust ductwork.

g. ELECTRICAL:

Multi-Purpose Station Building

- Provide temporary electrical service to temporary Bathroom facility while bathrooms in the Multi-Purpose Building are being remodeled.
- Temporarily remove lightening protection on roof in order to replace roof.
- Reinstall existing lightening protection and add any new terminals as required to the system for the new mechanical equipment.
- Certify the lightening protection system after reinstallation.
- Remove any electrical equipment if required to facilitate roof removal and installation.
- Provide new electrical service to new mechanical equipment on roof.
- Replace all lighting in corridor.
- Replace all lighting and receptacles in in bathrooms.
- Provide all electrical work required in the expansion of the Female Bathrooms into the adjacent Berthing Room.
- Provide new electrical to service to new AHU Units and Condensing Units or Package Units on the roof.
- Remove all electrical serving mini-split a/c's and a/c wall units that are to be removed.

WPB Building:

- Temporarily remove lightening protection on roof in order to replace roof.
- Reinstall existing lightening protection and certify the system after reinstallation.

Open Boat Storage

- Provide electrical outlets and lighting to new Boat Storage Structure
- Provide power to outlets and lighting from existing spares in Panel "C" on Second Floor of WPB Building.

h. MISC

- Provide limited LBP and Asbestos Surveys for areas to be selectively demolished. Abate LBP and Asbestos found prior to demolition.

- Demolition of existing dishwasher and grease trap to be replaced shall not commence until all new equipment and components are on site ready for installation.
- USCG personnel will occupy all adjacent area bordering new construction. Coordinate with COR (USCG contracting officer's representative) to minimize impact to operations and personnel. Therefore, contractor shall isolate construction area as required with temporary partition and dust controls as required.

1.1.4 REFERENCES, CODES AND STANDARDS

The codes, standards and publications are referenced in the text by the basic designation only. The latest editions, at the time of bid proposal, shall be used, unless noted otherwise.

New construction and modification to existing construction shall comply with requirements of:

- Americans with Disabilities Act Accessibility Guidelines (ADAAG)
- American Association of State Highway and Transportation Officials (AASHTO) A Policy on Geometric Design of Highways and Streets (2004 or latest edition)
- American Association of State Highway and Transportation Officials (AASHTO) Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT<400), (Latest Edition).
- American Association of State Highway and Transportation Officials (AASHTO) Manual on Uniform Traffic Control Devices (2009 or latest edition)
- American Society of Civil Engineers- Min Design Loads for Buildings and Structures (ASCE-7)
- American Society of Heating Refrigeration and Air Conditioning (ASHRAE)
- ASTM C591 Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation
- ASTM C665 Standard Specification For Mineral-Fiber Blanket Thermal Insulation For Light Frame Construction And Manufactured Housing
- ASTM C1289 Standard Specification For Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
- ASTM E 84 Standard Test Method For Surface Burning Characteristics Of Building Materials
- ASTM E 1557 Standard Classification for Building Elements and Related Sitework – UNIFORMAT II
- ASTM B 221 (1996) Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes
- ASTM C 94 (1996) Ready-Mixed Concrete
- ASTM F 883 (1997) Padlocks
- ASTM F 1184 (1994) Industrial and Commercial Horizontal Slide Gates
- American Society of Heating Refrigeration and Air Conditioning (ASHRAE)
- American Water Works Association (AWWA)

- BHMA A156.4 (1992) Door Controls – Closers (BHMA 301)
- BHMA A156.23 (1999) Electromagnetic Locks
- EPA Office of Water's "Cross Connection Control Manual, WH 550A, #570/9-89-003
- Florida Department of Transportation Road and Bridge Construction (FDOT RBC)
- DOD Unified Facilities Criteria - UFC 3-201-01 Civil Engineering
- DOD Unified Facilities Criteria - UFC 3-250-01FA (Pavement Design for Roads, Streets, Walks, and Open Storage Areas
- International Building Code (IBC)
- International Energy Conservation Code (IECC)
- International Fire Code (IFC)
- International Plumbing Code (IPC)
- International Mechanical Code (IMC)
- Occupational Safety and Health Association (OSHA)
Code of Federal Regulations (CFR)
- Energy Independence and Security Act
- Illumination Engineering Society of North America (IESNA) Lighting Handbook (LHBK)
- Master Painter's Institute Inc. (MPI)
- National Fire Protection Association (NFPA)
- National Life Safety Code (NFPA 101)
- National Electrical Code (NEC, NFPA 70)
- National Fire Alarm Code (NFPA 72)
- National Electrical Safety Code (NESC, IEEE C2)
- National Electrical Contractors Association (NECA)
- National Electrical Installation Standards (NEIS)
- NSF International (NSF)
- Plastic Pipe Institute (PPI)
- Sheet Metal and Air Conditioning Contractors National Association (SMACNA)
Architectural Sheet Metal Manual
- Telecommunications Industry Association (TIA/EIA -310D) Cabinets, Racks, Panels and
Associated Equipment
- Telecommunications Industry Association/Electronics Industries Association TIA/EIA-
568-B.1 Commercial Building Telecommunications Cabling Standard Part 1: General
Requirements (May 2001 or latest edition).
- Telecommunications Industry Association/Electronics Industries Association TIA/EIA-
568-B.1-1 Commercial Building Telecommunications Cabling Standard Part 1: General

Requirements Addendum 1 – Minimum 4-Pair UTP and 4-Pair ScTP Patch Cable Bend Radius (August 2001 or latest edition).

- Telecommunications Industry Association/Electronics Industries Association TIA/EIA-568-B.2 Commercial Building Telecommunications Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components (May 2001 or latest edition).
- Telecommunications Industry Association/Electronics Industries Association TIA/EIA-568-B.3 Optical Cabling Components Standard (April 2000 or latest edition).
- Telecommunications Industry Association/Electronics Industries Association (TIA/EIA-569-B)-Commercial Building Standard for Telecommunications Pathways and Spaces
- Telecommunications Industry Association/Electronics Industries Association (TIA/EIA-606-A) Administration
- Standard Practice for Installation of Chain-Link Fence - ASTM F567-11.
- Standard for the Commercial Telecommunications Infrastructure
- Telecommunications Industry Association/Electronics Industries Association (TIA/EIA-J-STD-607-A) Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications
- Telecommunications Industry Association/Electronics Industries Association (TIA/EIA-758-A) Customer-Owned Outside Plant Telecommunications Standard
- Telecommunications Industry Association/Electronics Industries Association (TIA/EIA-526-7) Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant – OFSTP-7
- Telecommunications Industry Association/Electronics Industries Association(TIA/EIA-526-14A) Optical Power Loss Measurements of Installed Multimode Fiber Cable Plant – OFSTP-14
- Telecommunications Industry Association/Electronics Industries Association (TIA/EIA-598-C) Optical
- Telecommunications Industry Association (TIA-942) Telecommunications Infrastructure Standard for Data Centers Fiber Cable Color Coding
- UL 325 (2001) Door, drapery, gate, Louver, and Window Operators and Systems
- UL 991 Tests for safety-Related Controls Employing Solid-State Devices
- U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Reference Guide for Green Building Design and Construction, Latest Edition
- U.S. GENERAL SERVICES ADMINISTRATION (GSA)
- FS RR-F-191 (Rev. K) Fencing, Wire and Post Metal (and Gates, Chain-Link Fence Fabric, and Accessories) (General Specification)
- FS RR-F-191/1 (Rev. D) Fencing, Wire and Post, Metal (Chain-Link Fence Fabric) (Detail Specification)

- FS RR-F-191/2 (Rev. D) Fencing, Wire and Post, Metal (Chain-Link Fence Gates) (Detail Specification)
- FS RR-F-191/3 (Rev. D) Fencing, Wire and Post, Metal (Chain-Link Fence Posts, Top Rails and Braces) (Detail Specification)
- FS RR-F-191/4 (Rev. D) Fencing, Wire and Post, Metal (Chain-Link Fence Accessories) (Detail Specification)
- Class 9905 NSN 9905-00-559-2971 "No Trespassing Sign"
- Class 9905 NSN 9905-00-721-8300 "Stop" sign
- AWWA C605-94 - Standard for Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water
- AWWA C651 - Standard for Disinfecting Water Mains
- AWWA C900-97 - Standard for Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. through 12 in. (100mm through 300mm), for Water Distribution
- AWWA C905-97 - Standard for Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14 in. through 48 in. (350mm-1200mm), for Water Distribution
- AWWA M23 - AWWA Manual of Supply Practices PVC Pipe—Design and Installation, Second Edition
- ASTM D1784 - Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
- ASTM D1785 - Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120
- ASTM D2152 Test Method for Degree of Fusion of Extruded Poly(Vinyl Chloride) (PVC) Pipe and Molded Fittings by Acetone Immersion
- ASTM D2241 - Poly (Vinyl Chloride) (PVC) Plastic Pipe (SDR-PR)
- ASTM F477 - Elastomeric Seals (Gaskets) for Joining Plastic Pipe
- ASTM F1057 - Standard Practice for Estimating the Quality of Extruded Poly (Vinyl Chloride) (PVC) Pipe by the Heat Reversion Technique
- NSF-14 - Plastics Piping System Components and Related Materials
- NSF-61 - Drinking Water System Components--Health Effects
- PPI TR-2 - PVC Range Composition Listing of Qualified Ingredients

1.2 ROLES OF RFP (REQUEST FOR PROPOSAL) SPECIFICATIONS AND DRAWINGS

1.2.1 GENERAL

Section 01800, "Design/Build Criteria," and Drawings contain abbreviated minimum facility requirements. The Contractor shall provide all necessary materials, equipment, labor and services required to provide a complete and useable facility for its intended purpose as [insert facility description].

1.2.2 CONTRACTOR-PRODUCED CONSTRUCTION DESIGN DOCUMENTS

The Contractor shall provide construction design documents in compliance with Section 01802 "Construction Design Documents".

1.2.3 RFP DRAWINGS

The design and design data indicated on the RFP drawings are the minimum requirements, i.e.; baseline requirements, to be used by the Contractor to develop the project design. The Contractor shall add to, supplement, and complete these drawings to fully comply with the documentation requirements specified in Section 01802, "Construction Design Documents." The design and design data on the RFP drawings shall not be changed unless the requirements of paragraph "Deviations from Procurement Documents" of Section 01802, "Construction Design Documents" are met.

1.2.4 PRECEDENCE

In the event of conflict or inconsistency between provisions of the various portions of this contract (the reconciliation of which is not otherwise provided for herein), precedence shall be given in the following order. The provisions of a particular portion shall prevail over those of a subsequently listed portion. The provisions of the Requests For Proposal (RFP) issued in connection with this contract including all addenda, amendments, or other modifications issued there under.

The Government reviewed Contractor-produced Design Drawings and Specifications, except to the extent that any deviation therein has been specifically approved in writing pursuant to the provisions of Section 01802, "Construction Design Documents."

1.3 SUSTAINABLE DESIGN AND LEED-NC CERTIFICATION

1.3.1 Sustainable Design

This facility shall be designed and constructed in an environmentally responsible manner, utilizing sustainable design concepts, systems and materials to the maximum extent practical to provide a facility that meets the following requirements and goals:

- Energy efficiency;
- Energy Policy Act (EPACT) 2005;
- Executive Order (EO) 13693 – Planning for Federal Sustainability in the Next Decade;
- Energy Independence and Security Act (EISA) 2007
- Reduces or eliminates toxic and harmful substances;
- High indoor air quality (IAQ) conditions;
- Use of building materials that can be recycled;
- Use of recycled content materials, including EPA designated products;
- Efficiency in resource and materials utilization;
- Minimizes waste products during both the construction and operation of the facility;
- Promotes O&M practices that reduce or eliminates harmful effects on people and the natural environment;
- Can be easily modified as occupant needs change and easily adapted or converted to other uses.

1.3.1.1 This project shall incorporate the sustainable design principles and guidelines of the "Whole Building Design Guide" and is to be designed with the intent of maximizing the use of sustainable design and development practices. Information and resources on sustainable design principles and guidelines are explained in the "Whole Building Design Guide" that can be found at www.wbdg.org.

END OF PARAGRAPH

**SECTION 01800
DESIGN BUILD REQUIREMENTS
ARCHITECTURAL
PARAGRAPH 1.7**

1.7 ARCHITECTURAL DESIGN

1.7.1 Exterior Building Envelope: The Multi-Purpose (Station) Building

1.7.1.1 Exterior Walls (Multi-Purpose Station Building)

1.7.1.1.1 Provide all necessary exploratory work and perform work necessary to repair leaks and seepage at exterior walls.

1.7.1.2 Roof Systems (Multi-Purpose Station Building, WPB Building)

1.7.1.2.1 All roofing or portions thereof shall be a minimum three-ply modified bitumen roof membrane consisting of modified bitumen base sheet, interplay sheet and cap sheet. The modified roofing membrane must be set in hot asphalt. The system shall have the standard manufacturer's warranty. Remove any accessories as required to achieve the work and reinstall after work is completed. Provide system accessories and compatible flashing to assure a watertight installation. Provide the roof membrane manufacturer's walkway pads for maintenance access to any roof mounted equipment.

1.7.1.2.2 All work must follow the NRCA –RWM guidelines and standards stated within this section.

1.7.1.3 Sheet Metal Flashing and Trim (Multi-Purpose Station Building, WPB Building)

1.7.1.3.1 Performance requirements: Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and remain watertight.

Unless requirements that are more stringent are determined by the Designer of Record, the sheet metal flashing and trim standards shall comply with SMACNA's "Architectural Sheet Metal Manual". Finish shall be 2-coat/3-coat fluoropolymer complying with AAMA 621 containing not less than 70 percent PVDE resin by weight in color coating with a fluoropolymer coating with a manufacturer's warranty against blistering, peeling, cracking, chipping or experience material rust through for a period of 20 years. Finish color shall be manufacturer's standard color.

1.7.1.4 Gutters, Conductor Heads, Scuppers and Downspouts (Multi-Purpose Station Building, WPB Building)

1.7.1.4.1 The roof drainage system including scuppers shall be designed for the calculated quantity of water as required by code. Exposed sheet metal drainage system components shall be designed in accordance with guidelines set forth in the current Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Architectural Sheet Metal Manual. Downspouts shall not terminate above sidewalks. Route downspouts under sidewalks to grade or route to storm water collection system.

1.7.1.5 Insulation and Moisture/Air Barriers (Multi-Purpose Station Building)

1.7.1.6 Moisture/Air Barriers (Multi-Purpose Station Building)

1.7.1.6.1 Provide all necessary exploratory work and perform work necessary to repair leaks. Provide waterproofing to protect the building envelope that occurs at the exterior walls

1.7.1.6.2 Joint Sealants (Multi-Purpose Station Building, WPB Building, and UPH Building)

Provide appropriate joint sealants for each particular interior and exterior application. Color of sealant shall match color of adjacent surfaces. Provide bond breaker, backstops, and primers according to the recommendations of the sealant manufacturer.

1.7.2 Interior Construction

1.7.2.1 Floor Systems

Floor construction shall meet the requirements of Structural paragraphs 1.8 of Section 01800.

1.7.2.2 Wall Systems (Multi-Purpose Station Building)

1.7.2.2.1 Interior non-load bearing partitions shall be types indicated on the drawings of consisting of concrete masonry block and metal studs (not less than 20 gauge, 3-5/8-inches wide) with field painted 5/8-inch gypsum wallboard, unless indicated otherwise. Provide materials and assemblies as required to provide fire ratings required by codes or identified on the drawings. Provide water resistant board in toilet, shower, locker and other spaces subject to moisture. All interior walls shall extend full height from floor to underside of roof or floor structure above.

1.7.2.2.2 Provide interior masonry block partitions where indicated by DOR. Provide bull-nose units for all exposed exterior corners.

1.7.2.2.3 All tile walls shall be backed with 1/2" cement wallboard. (Multi-Purpose Station Building Bathrooms)

1.7.2.2.4 Shower enclosures shall have a solid polymer shower pan and the enclosing three (3) walls of each shower stall shall be finished with 1" thick solid polymer sheets floor to ceiling.

1.7.2.3 Ceiling Systems (Multi-Purpose Station Building)

1.7.2.3.1 Suspended acoustic tile ceilings (SATC) shall consist of non-directional fissured, square edge, 24" x 24" tiles. Suspension system shall be exposed grid, intermediate duty, of aluminum or commercial quality galvanized steel with baked white polyester finish.

1.7.2.3.2 Gypsum board (GWB) ceilings shall be either suspended or direct applied, and shall consist of 5/8" thick field painted gypsum board. Provide fire resistant board where required by code. Provide water resistant board in toilet, shower, locker and other spaces subject to moisture.

1.7.2.4 Insulation (Multi-Purpose Station Building)

Provide sound attenuation batts in [all] walls [as indicated]. Insulation shall be light-density unfaced fiberglass batts, classified as non-combustible by the building code.

1.7.2.5 Finishes (Multi-Purpose Station Building)

See Finish Schedule on RFP Drawings for locations and types of all interior finishes. Samples of all interior finish materials shall be submitted to the Government for review and approval. See Color Board requirements in Section 01802.

1.7.2.6 Floor Finishes (Multi-Purpose Station Building and UPH Building)

1.7.2.6.1

Vinyl Composition Tile (VCT) - 12" x 12" x 1/8" (Multi-Purpose Station Building Interior Corridor)

Ceramic Tile (CT) – (Multi-Purpose Station Building New Bathrooms) Provide slip-resistant porcelain ceramic or ceramic mosaic tile where indicated. Tile shall contain approximately 60% pre-and post-consumer recycled material content, with crystalline-shield-like layer of protection, have a high coefficient of friction, be scratch, stain-resistant, protected to inhibit the growth of stain- and odor-causing bacteria on the surface of the tile, and be Certified by the Porcelain Tile Certification Agency. A minimum of 2 different colors shall be used in developing the design. Grout colors shall be medium to dark so as to minimize staining

Linoleum (LIN) – (UPH Building Exterior Corridor) Provide sheet good linoleum where specified. Heat welded seams in color to match field color of linoleum to minimize seam appearance.

1.7.2.6.2 Wall Bases (Multi-Purpose Station Building)

Ceramic Tile (CT) – (Multi-Purpose Station Building New Bathrooms) Matching or complementary tile base for Ceramic Tile floor finishes.

Resilient Base (RESIL) –(Multi-Purpose Station Building Interior Corridor) Rubber or vinyl base for Vinyl Composition Tile or Carpeted floor finishes. Minimum thickness: 0.125 inches. Height: 4 inches. Outside corners: preformed. Inside corners: preformed.

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1.7.2.6.3 Wall Finishes (Multi-Purpose Station Building and UPH Building)

Paint (PT) - Interior surfaces, except factory pre-finished materials, shall be painted a minimum of one prime coat and two finish coats of latex semi-gloss enamel. If color selections are not indicated, select neutral colors for more permanent surfaces to facilitate future finish material changes.

Ceramic Tile (CT) - Glazed wall tile or porcelain ceramic as specified in DOR the finish schedule.

Acrylic Coating (AC) - When masonry and concrete walls are exposed in occupied spaces, provide a textured or smooth, acrylic or acrylic-silicone based coating. Such systems shall be applied in thicknesses sufficient to "hide" any underlying roughness of the concrete surface and mortar joints in masonry walls.

1.7.2.7 Acoustic Requirements

1.7.2.7.1 Sound Attenuation: at a minimum, the acoustic requirements for all walls, partitions and floor/ceiling assemblies separating occupied spaces from each other and adjacent public areas such as halls, corridors, stairs and service spaces shall meet the following Sound Transmission Class (STC) ratings for air-borne and structure-borne sound: STC rating of 50 (if tested in a laboratory) or 45 (if tested in the field*). Ratings shall be as tested in accordance with ASTM E 90 and E 492. Separate shops / work bays / large assembly and other occupied spaces with assemblies having a minimum STC of 65.

1.7.3 Openings**1.7.3.1 Exterior Doors**

1.7.3.1.1 All other exterior doors and frames shall be Fiberglass Reinforced Plastic (FRP) with a seamless, minimum 15 mil thick gel coat color finish that is applied at the time of manufacturing. Doors shall be 1-3/4" inches thick with reinforced frame perimeters, hinge pockets, lockset and closer locations and polyurethane core construction between the FRP face panels. Any vision light openings or louvers required shall be installed by the door manufacturer at the time of manufacture. Provide vision lights where noted or specified. Glazing shall meet the requirements of the Large Missile Test of ASTM E 1996[, and be wired glass for security purposes where indicated]. All doors shall be fully weather stripped and include a heavy-duty fiberglass or metal threshold that prevents drafts, dirt, water, and insect entry.

1.7.3.2 Interior Doors

1.7.3.2.1 Wood Doors: All interior doors, except those noted below, shall be flush, solid wood staved lumber core (NAUF SLC-5) doors with plain sliced (flat sliced) stained white birch veneer faces, Custom (Grade A) faces, book matched between paired leaves, running match assembly on door of 5-ply construction and factory applied transparent finish. Any window light openings or louvers required shall be installed by the door manufacturer at the time of manufacture. Provide vision lights where noted or specified. Doors shall have No Added Urea Formaldehyde (NAUF) resin.

1.7.3.3 Door Hardware

All hardware shall be in compliance with the Builders Hardware Manufacturers Association (BHMA), and shall include but not limited to the following:

1.7.3.3.1 Cylinders and Keying: Compatible with "Best Locking System" to match existing base grand master keying system; 7-pin with "A" keyway (removable cores). Furnish one file key, one duplicate key, and one working key for each key change. Furnish one additional working key for each lock of each keyed-alike group. Furnish two additional keys for each sleeping room. Stamp each key with appropriate key control symbol and "U.S. property - Do not duplicate." Do not place room number on keys

1.7.3.3.2 Hinges: Stainless Steel (630) for exterior doors, and dull chrome (626) for interior doors.

1.7.3.3.3 Lock/Latch Sets: Series 4000 Grade 1, with lever handles, 626 finish. Provide locksets for all doors except for spaces 18 and 19 (Toilets).

1.7.3.3.4 Closers: Grade 1, modern covers.

1.7.3.3.5 Exit Devices (if required): Touch bar type, Grade 1.

1.7.3.3.6 Padlocks: Provide master keyed padlocks for each overhead door and access panel.

Window Protection

1.7.3.5.6 Provide shutters for Main Entrance.

1.7.3.5.7 Service all shutters and repair existing inoperable shutter

1.7.4 Interior Specialties

1.7.4.1 Toilet Accessories: **(Multi-Purpose Station Building)**

1.7.4.1.1 Private Toilets / Bathrooms

Provide the following accessories where indicated on the RFP Drawings and required below:

Mirror and Shelf: Provide a 24"x 36" stainless steel tilt framed glass mirrors [with integral stainless steel shelf].

Toilet Paper Dispenser: Type II, double roll, vertical mount [(Government Furnish and Installed)].

Towel Bar: Provide 24" long commercial grade satin chrome towel bars.

Garment Hook: Provide one stainless steel garment hook on the inside of each toilet room door.

Robe Hook: Provide at least one stainless steel double robe hook at each tub/shower stall.

Soap/Shampoo Holder: Provide a stainless steel combination soap and shampoo holder at each tub/shower.

Shower Curtain Rod, Curtain Hooks and Shower Curtain: Provide 1" diameter, satin finish curtain rods, stainless steel curtain hooks and anti-bacterial, 8 gage white vinyl shower.

Prefabricated Showers: Where one-piece shower stall units that can be ordered or come with accessories such as curtain rods, hooks, and soap/shampoo holder that are fabricated to fit the units, the manufacturer's accessories shall be included to ensure proper installation.

1.7.4.1.2 Toilet and Shower Partitions **(Multi-Purpose Station Building)**

Gang toilet and shower partitions and urinal screens shall be solid high density polyethylene (HDPE) construction with all stainless steel hardware. Partitions shall be floor supported overhead braced. Urinal and/or privacy screens can be wall hung.

1.7.4.2 Signage:

1.7.4.2.1 Room Signs: Provide interior signage consisting of plastic laminate raised-letter plaques with Room Name and Number for all building spaces. Room sign shall have changeable inserts to enable quick changes of room numbers, names or titles. Obtain sign text and numbers from the building user during design development. Signs shall be provided and installed on all doors or walls adjacent to doors (coordinate with building COR). Room signs shall also be provided for all exterior doors of mechanical, electrical and telecommunications spaces. Exterior door name and number signs shall be suitable for exterior use. Coordinate color and design with other interior finishes. Interior signage shall comply with UFAS.

1.7.5 EQUIPMENT AND FURNISHING REQUIREMENTS

Supplementary information identifying equipment and furnishing items that shall be provided for and accommodated in this facility.

1.7.5.1 LAMINATED CLAD ARCHITECTURAL CASEWORK

All materials, construction methods, and fabrication shall conform to and comply with the premium grade quality standards as outlined in AWI Qual Stds, Section 400G and Section 400B for laminate clad cabinets.

1.7.5.2 SOLID POLYMER SURFACES

Work in this section includes vanity tops, and other items utilizing solid polymer (solid surfacing) fabrication as shown in the Designer of Record (D.O.R.) design drawings and as described in this Request for Proposal (RFP). Do not change source of supply for materials after work has started, if the appearance of finished work would be affected. Variation in component size and location of openings to be plus or minus 1/8 inch.

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Cast, solid polymer material shall be composed of a formulation containing acrylic and polyester polymers, mineral fillers, and pigments. Acrylic polymer content shall be not less than 5 percent and not more than 10 percent in order to meet the following minimum performance requirements:

1.7.5.3 TOILET AND SHOWER PARTITIONS

Toilet partition system, including toilet enclosures, room entrance screens, and urinal screens, shall be a complete and usable system of panels, hardware, and support components. The Contractor shall comply with EPA requirements for RECYCLED / RECOVERED MATERIALS. The partition system shall be provided by a single manufacturer, and shall be a standard product as shown in the most recent catalog data. The partition system shall be as shown on the D.O.R design drawings.

Enclosures shall conform to CID A-A-60003, Type I, Style C, overhead braced. Width, length, and height of enclosures shall be as shown on the D.O.R. Finish surface of panels shall be finish 5. Panels indicated to receive toilet paper holders or grab bars shall be reinforced for mounting of the items required. Grab bars shall withstand a bending stress, shear stress, shear force, and a tensile force induced by 250 lbf. Grab bars shall not rotate within their fittings. Shower enclosures shall have fold down blow-molded polyethylene seat, curtain rod located 4 inches in from face of shower receptor with mildew shower resistant shower curtain and precast solid polymer receptors as indicated in D.O.R. design drawings. Shower enclosure at shower shall be full height.

1.7.5.4 FINISHES

Except where noted otherwise, finishes on metal shall be provided as follows:

<u>Metal</u>	<u>Finish</u>
Stainless steel	No. 4 satin finish

1.7.6 ACCESSORY ITEMS

Accessory items shall conform to the requirements specified below.

1.7.6.1 Mirrors, Glass (MG)

Glass for mirrors shall be Type I transparent flat type, Class 1-clear. Glazing Quality q1 1/4 inch thick conforming to ASTM C 1036. Glass shall be coated on one surface with silver coating, copper protective coating, and mirror backing paint. Silver coating shall be highly adhesive pure silver coating of a thickness which shall provide reflectivity of 83 percent or more of incident light when viewed through 1/4 inch thick glass, and shall be free of pinholes or other defects. Copper protective coating shall be pure bright reflective copper, homogeneous without sludge, pinholes or other defects, and shall be of proper thickness to prevent "adhesion pull" by mirror backing paint. Mirror backing paint shall consist of two coats of special scratch and abrasion-resistant paint and shall be baked in uniform thickness to provide a protection for silver and copper coatings which will permit normal cutting and edge fabrication.

1.7.6.2 Combination Paper Towel Dispenser/Waste Receptacle Units (PTDWR)

Dispenser/receptacle shall be semi-recessed and shall have a capacity of 600 sheets of C-fold, single-fold, or quarter-fold towel. Waste receptacle shall be designed to be locked in unit and removable for service. Locking mechanism shall be tumbler key lock. Waste receptacle shall have a capacity of 18 gallons. Unit shall be fabricated of not less than 0.30 inch stainless steel welded construction with all exposed surfaces having a satin finish. Waste receptacle that accepts reusable liner standard for unit manufacturer shall be provided.

1.7.6.3 Soap Dispenser (SD)

Soap dispenser shall be surface mounted, liquid type consisting of a vertical Type 304 stainless steel tank with holding capacity of 40 fluid ounces with a corrosion-resistant all-purpose valve that dispenses liquid soaps, lotions, detergents and antiseptic soaps.

1.7.6.4 Soap Holder (SH)

Soap holder shall be surface mounted Type 304 stainless steel. Separate supports shall be stainless steel.

1.7.6.5 Shelf, Metal, Light Duty (SMLD)

Light duty metal shelf shall be supported between brackets or on brackets. Brackets shall prevent lateral movement of the shelf. Shelf shall be 18 inches long. Shelf and brackets shall be stainless steel.

1.7.6.6 Towel Bar (TB)

Towel bar shall be stainless steel with a minimum thickness of .015 inch. Bar shall be minimum 3/4 inch diameter, or 5/8 inch square. Finish shall be satin.

1.7.6.7 Toilet Tissue Dispenser (TTD)

Toilet tissue holder shall be Type II - surface mounted with two rolls of standard tissue mounted horizontally. Cabinet shall be stainless steel, satin finish.

1.7.6.8 Robe Hooks

Provide two hooks integral with the wall flange. Projection shall be not less than 1 5/8 inches from the back of the wall flange to end of the hooks. Hooks shall be stainless.

1.7.7 Special Construction

1.7.7.1 Pre-engineered Metal Building (Open Boat Storage)

1.7.7.1.1 Building Size: The building size will be defined as structural line to structural line. Clear height under the primary frames will be as required to accommodate a boat and trailer, about 16'-0". The Building shall be 16'-0"x feet wide and 40'-0" feet long. Bays (spacing between primary frames) will be as required to meet structural requirements.

1.7.7.1.2 Primary Structure: Frames will consist hot-dipped galvanized (HDG) steel columns and roof beams or trusses complete with necessary splice plates for bolted field assembly. Beam and post end wall frames shall consist of end wall corner posts, end wall roof beams, and end wall posts as required by design criteria. Exterior columns may be welded-up "H" sections or cold-formed "C" sections. Interior columns may be "H" sections or tube columns.

Connection of all major structural members will be made with HDG A325 high-tensile bolts through pre-punched or predrilled holes for exact alignment.

All structural members shall be painted with manufacturer's standard primer with manufacturer's standard surface preparation as specified by the manufacturer. Field paint all interior exposed building structural and non-structural members with water based epoxy paint.

1.7.7.1.3 Secondary Structure: Secondary structural members shall be purlins, truss purlins or girts with a shop applied primer. Field paint all interior exposed building structural and non-structural members with water based epoxy paint.

1.7.7.1.4 Roof System: The roof system shall be standing seam roof system consisting of steel standing seam panels with G-90 HDG treatment. Exterior exposed panel surfaces shall be finished with a full strength 70% fluoropolymer (Kynar 500 or Hylar 5000) finish, with a dry film thickness of 0.9 mil minimum (color as recommended by Architect from manufacturer's standard color range and approved by the Government). Interior surfaces shall be coated with a polyester color coat.

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1.7.7.1.5 Quality Assurance: Manufacturer shall be a member firm of the Metal Building Manufacturers Association and shall hold American Institute of Steel Construction Certification for Category MB. Qualify welding procedures and welding personnel according to American Welding Society D1.1 and D1.3.

1.7.7.1.6 Warranty: Manufacturer shall warrant that coating shall not blister, peel, crack, chip, or experience material rust through for 20 years. Chalking shall not exceed #8 - ASTM D4214 and fading shall be 5_E Color Difference Units or less. Manufacturer shall warrant building, including standing seam metal roof system, to remain weathertight within the warranty period. Warranty shall be from the date of final acceptance.

END OF PARAGRAPH

**SECTION 01800
DESIGN BUILD REQUIREMENTS
STRUCTURAL
PARAGRAPH 1.8**

1.8 STRUCTURAL DESIGN

1.8.1 Proposed Concept Drawings

1.8.1.1 There are no conceptual drawings. The new boat shelter structure shall be of the same width and length as the existing boat shelter, however, the height shall be slightly higher in order to accommodate the required vessel storage and shall be coordinated with unit personnel by the designer of record (DOR). The DOR shall ensure all design requirements are identified, met, and an optimal solution provided.

1.8.2 Structural Design Criteria Design Life

1.8.2.1 The design life of all the structural components shall be a minimum of 30 years. The design life shall ensure continued use of the structural component with no reduction in strength, function and use during the design life.

1.8.3 Design Load Criteria

1.8.3.1 The building's loads shall be determined in accordance with the latest edition of ASCE Standard 7 entitled "Minimum Design Loads for Buildings and Other Structures." In the event of a conflict between the requirements of ASCE 7 and the requirements of any other specified or referenced codes, standards, or design manuals, the criteria given in ASCE 7 shall govern.

1.8.3.2 The Boat Shelter structure shall be considered Risk Category II, Essential Facility, for the purpose of determining structural loading.

1.8.3.3 Loads listed below are supplemental minimum design loads or clarifications and shall be increased by the DOR as deemed necessary to ensure intended continued use and function of the facility or to provide adequate strength to support construction loads.

<u>Live Loads</u>	
Roof	30 PSF or a concentrated live load of 300 LBS, whichever governs.
First Floor	100 PSF

1.8.4 Building Construction

The building structure shall be a braced or moment resisting structural steel frame. The maximum lateral sideways of the structural steel frame shall not exceed $H/100$ under the maximum specified design loads.

1.8.4.1 Structural steel framing system selected and all metal components of roof system and portions of wall system exposed shall be protected by either epoxy coatings or other suitable corrosion resistant paint systems conforming to MPI industry standards. Government will approve the finish color recommended by the Contractor's architect. Roof framing live or wind load deflection shall not exceed $L/180$ under the maximum specified design live or wind load.

1.8.4.2 All walls shall be anchored to resist minimum lateral loads as specified in the criteria and codes listed.

1.8.5 Elevations

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1.8.5.1 The finish floor elevations of the new boat shelter shall be the elevation of the existing boat shelter slab.

1.8.6 Floor Slabs

1.8.6.1 The new boat shelter will be placed over the concrete slab of the existing boat shelter.

1.8.7 Foundation

1.8.7.1 Designer of record (D.O.R) to design foundations as required.

END OF PARAGRAPH

**SECTION 01800
DESIGN BUILD REQUIREMENTS
DEMOLITION
PARAGRAPH 1.9**

1.9 DEMOLITION

1.9.1.1 Multi-Purpose Station Building

- Remove all existing roofing all the way down to the concrete deck.
- Remove existing a/c compressors that are not going to be used and corresponding curbs.
- Temporarily remove all lightning protection cabling and aerals.
- Demolish existing interior drywall soffits as required to remove and / or alter the A/C/ Duct System.
- Remove existing VCT Tile flooring in the corridors.
- Completely demolish existing male and Female Bathrooms. Including Plumbing, HVAC, and electrical.
- Remove existing 4" cast iron sanitary line from Galley's 3-compartment sink down to first floor.
- Cut exterior slab as necessary and excavate down to bury new 4" cast Iron sanitary line to new grease trap.
- Remove existing grease interceptor.

1.9.1.2 UPH Building

- Remove existing aluminum door thresholds at berthing rooms to remove laminated PVC Flooring at Balcony.
- Remove aluminum strip at exterior berthing room walls that secure the turned up PVC to wall.
- Remove existing laminated PVC Flooring.
- Remove existing ¾" exterior grade plywood.

1.9.1.3 Open Boat Storage

- Remove existing metal roofing panels.
- Remove existing galvanized tubular structural steel frames.
- Cut remaining anchor bolts and grind down flush with top of existing concrete slab.

1.9.1.4 WPB Building

- Temporarily remove lightening protection system from roof in order to remove roofing.
- Remove the existing roofing all the way down to the structural slab.
- Remove a portion of the generator exhaust pipe from below the roof slab all the way to the outside.

1.9.2 GENERAL REQUIREMENTS

1.9.2.1 Before beginning any demolition or deconstruction work, survey the site and examine the drawings and specifications to determine the extent of the work. Record existing conditions in the presence of the COR representative showing the condition of structures and other facilities adjacent to areas of alteration or removal. Photographs sized 100 mm (4" x 6") will be acceptable as a record of existing conditions. Include in the record the elevation of the top of foundation walls, finish floor elevations, possible conflicting electrical conduits, plumbing lines, alarms systems, the location and extent of existing cracks and other damage and description of surface conditions that exist prior to before starting work. It is the Contractor's responsibility to verify and document all required outages which will be required during the course of work, and to note these outages on the record document. Submit survey results.

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1.9.2.2 All deleterious materials are to be removed from the construction site. Demolish, remove, and dispose of all pertinent utilities, paving, ground cover, vegetation, and structures located within the areas of demolition.

1.9.2.3 The Contractor shall attend Contract Officer pre-arranged site visits and obtain all detailed field information required to complete the work.

1.9.2.4 Comply with USACE EM 385-1-1 and OSHA requirements for all demolition activities.

1.9.2.5 Fill and compact all excavated areas with backfill meeting the specifications of a licensed geotechnical engineer.

1.9.3 Salvage Requirements

The following items shall be removed and stored for reinstallation:

- a. The lightning protection system
- b. Exhaust and Supply fans

1.9.4 Existing Work

1.9.4.1 Protect existing work, which is to remain in place, be reused, or remain the property of the Government. Repair items that are to remain and which are damaged during performance of the work to their original condition, or replace with new. Do not overload structural elements. Provide new supports and reinforcement for existing construction weakened by demolition or removal work. Repairs, reinforcement, or structural replacement must have Contracting Officer approval.

1.9.4.2 All materials shall be disposed of off-site in accordance with all applicable state and federal regulations, codes and ordinances. Reuse of existing materials on-site would only be acceptable if approved as part of LEED certification and if approved by the Contracting Officer. Any materials commonly recycled locally shall be disposed of by the Contractor in an approved recycle site for that type of material. All demolished debris and construction waste materials shall be diverted from landfills in accordance with the principles of integrated sustainable design contained in the latest LEED-NC rating system.

1.9.5 Required Data

1.9.5.1 Submit a demolition plan that shall include procedures for careful removal and disposition of materials specified to be salvaged, coordination with other work in progress, a disconnection schedule of utility services, a detailed description of methods and equipment to be used for each operation and of the sequence of operations. Include statements affirming Contractor inspection of the existing structure and its suitability to perform as a safe working platform or if inspection reveals a safety hazard to workers, state provisions for securing the safety of the workers throughout the performance of the work. Identify components and materials to be salvaged for reuse or recycling.

1.9.6 Demolition and Disposal of Hazardous Materials or Special Waste

The term Hazardous Materials includes specially regulated waste, contaminated soils, contaminated materials, hazardous waste, asbestos, lead, lead paint, treated lumber, Underground Storage Tanks, PCBs, and Ozone Depleting Substances that may be encountered/unearthed during project related demolition or excavation activities. These hazardous materials will require special handling and disposal. The contractor shall meet all local, state, and federal regulations when working with and disposing of hazardous materials.

If unidentified or unexpected hazardous materials are encountered during demolition activities, contractor shall notify the Contracting Officer of this unexpected site condition.

This project will require the following demolition and disposal of known hazardous materials as follows:

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1.9.6.1 Asbestos –Asbestos is known to be present, the contractor shall have a limited asbestos survey performed of the existing conditions. The contractor shall further evaluate this site as required to properly abate all asbestos-containing material (ACM) requiring abatement prior to demolition of the structures or renovation that will otherwise disturb the material. All asbestos abatement work shall be completed in accordance with all local, state, and federal asbestos abatement and disposal regulations. All asbestos abatement work must be done by a contractor licensed specifically to abate asbestos in the state the work will be accomplished.

1.9.6.1.1 Submittals for Asbestos Abatement Activities

Prior to commencing asbestos abatement activities, submit an Asbestos Abatement Plan. Contractor shall assume the government will provide comments back within a fourteen (14) day period. This plan shall detail work procedures to be used in the removal and proper disposal of materials containing asbestos. This plan must be prepared by an AHERA Project Designer certified pursuant to 40 CFR 763, Model Accreditation Plan. This plan must be approved by the Coast Guard prior to the start of any asbestos work. The asbestos abatement plan shall also include at a minimum:

- (1) Location and layout of asbestos removal areas
- (2) Sequencing of Asbestos Related Work
- (3) Detailed description of the method(s) that will be used in order to control work site
- (4) Safety Plan for Work to include Material Safety Data Sheets (MSDSs) for Hazardous Materials used in abatement process. Description of OSHA compliant Respirator Program.
- (5) Copies of all required permits, notifications, disposal/hauling permits, and the asbestos contractor's state Asbestos Abatement Licenses.
- (6) Proof of adequate asbestos worker training for all employees working on asbestos abatement
- (7) Hauling and Disposal plan for asbestos. Proof that disposal facility is adequately licensed for the disposal of asbestos.

Within fourteen (14) days of completing asbestos abatement work, submit the following:

- (1) Shipping Manifest for Asbestos Disposed of, to include quantity shipped and name of accepting facility
- (2) Any required air sampling/monitoring results (pre and post abatement)

Failure to provide this submittal could result in withholding of all or partial payment on this contract.

1.9.6.2 Lead/Lead Paint –Lead/Lead Paint is known to be present, the contractor shall have a limited lead base Paint Survey Performed of those areas being worked on or being demolished. The contractor shall further evaluate this site as required to properly abate all lead-containing material requiring abatement prior to demolition of the structures or renovation that will otherwise disturb the material. All lead abatement work shall be completed in accordance with all local, state, and federal asbestos abatement and disposal regulations. All lead abatement work must be done by a contractor licensed specifically to abate lead in the state the work will be accomplished.

1.9.6.3 Ozone Depleting Substances (ODS) – Contractor shall assume that all refrigeration and air conditioning equipment to be disposed of contains ODS, and that it must be properly recovered and recycled by an EPA certified ODS/refrigerant recovery technician.

Within fourteen (14) days of completing any ODS removal, submit information on the type of ODS/refrigerant, quantity, recovery technician's name/license, and where materials for sent for recycling.

1.9.6.4 PCBs –PCBs are not known to be present at this site. Should PCBs be encountered, contractor shall notify the Contracting Officer as this is a changed site condition.

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1.9.6.5 Underground Storage Tanks –Underground Storage Tanks are not known to be present at this site. Should an Underground Storage Tank be encountered, contractor shall notify the Contracting Officer as this is a changed site condition.

1.9.6.6 Contaminated Soils – Contaminated Soils are not known to be present at this site. Should Contaminated Soils be encountered, contractor shall notify the Contracting Officer as this is a changed site condition.

END OF PARAGRAPH

**SECTION 01800
DESIGN BUILD REQUIREMENTS
PLUMBING
PARAGRAPH 1.11**

PLUMBING

1.11.1 Requirements

1.11.1.1 The plumbing design and construction work shall conform to the applicable requirements of the latest edition of the International Plumbing Code (IPC). The design shall satisfy the criteria of the Energy Policy Act (EPACT) 2005, Energy Independence and Security Act (EISA) 2007 Mandate, USGBC LEED Certified certification, and ASHRAE 90.1-2013 energy criteria for all plumbing systems. Complete plumbing piping systems will be provided for the building. The plumbing installation shall include water, drain waste & vent (DWV), and sanitary services including all pipes, fixtures and equipment. The plumbing system shall be supplied by potable water main system and shall drain by gravity to the sanitary sewer system. Plumbing fixtures shall be provided where indicated on the drawings and as noted.

1.11.1.2 New systems

1.11.1.3 Shall be selected based on energy efficiency. All new fixtures, components, and materials shall comply with "Buy American Act." Plumbing systems including fixtures, equipment, materials, installation, and workmanship shall be in accordance with the International Plumbing Code and the manufacturer's installation instructions. In the Installation instructions and Plumbing Code referred to herein, the advisory provisions shall be considered to be mandatory, as though the word "shall" had been substituted for the word "should" wherever it appears; reference to the "authority having jurisdiction," the Administrative Authority, the Plumbing Official, and the Design Engineer shall be interpreted to mean the Contracting Officer. Capacity of equipment shall be not less than that indicated. Equipment and materials shall be installed in accordance with manufacturer's installation recommendations. Contractor shall field verify existing dimensions and voltages to verify new equipment is compatible with existing conditions prior to ordering new equipment and initiating submittals for USCG approval.

1.11.1.4 Multi-purpose Building & Surrounding:

- a. **Plumbing-Civil:** Provide new drain, waste, vent, and sewer line indicated below; prior to demolishing existing line. Coordinate all work with Station; minimize disruption to cooking operations. Cooking/cleaning operations shall not be interfered with for more than four hours on any day; prior coordination required.
 - Replace drain & waste line/sewer line (above ground and underground from pot wash sink to grease interceptor (Riser P-10 and underground lateral from riser P-10 to underground grease interceptor shown on drawings no. 1652 sheets P-1 and P-2). Contractor to verify distance of pipe length to be replaced from attached drawings and field verification. Repair walls and floors to match existing after pipe replacement.
 - Empty, inspect, provide existing dimensions, vacuum test, and provide a written report of existing grease interceptor (underground). Comply with ASTM C1719 *Standard Test Method*.
 - During a weekend approved by USCG, clean & blast, cut patch & seal existing cracks, and bond & recoat with epoxy liner interior of grease interceptor. OR at contractor option size and replace with new concrete grease interceptor.
 - Underground sanitary sewer and riser DWV (drain waste & vent) pipe shall be ASTM A74 service weight cast-iron soil pipe (service rated) with fusion bonded epoxy liner and coat. Pipe and fittings shall be marked with cast iron soil pipe institute (CISPI) trademark and NSF listed. Comply with manufacturer's installation instructions.
- b. **Life Safety & Fire Protection:** Maintain fire separation and fire stop all new plumbing penetrations. Identify all fire ratings doors walls, floor ceiling assemblies on drawings for USCG.
- c. **Plumbing: Leaks and failure from 50 year old lines (cw, hw, dwv), shower pans leak.** Facility has four bathrooms (three on the 2nd level and one at ground level); only one bathroom shall be inoperative at any one time. Bathroom must be fully operational and accepted by USCG

COR prior to proceeding to repairing/remodeling next bathroom. Do not demolish bathroom until all new equipment and materials are on site and ready to be installed.

- Provide temporary bathroom and shower facilities during construction for USCG personnel. The Count of fixtures shall be a minimum of (3) water closets, (3) lavatories, and (3) showers. There shall be (3) lockable compartments with each having (1) water closet, (1) lav. and (1) shower.
- 2nd floors men's community bathroom: provide all new CW (cold water), HW (hot water), & HWR (hot water return) lines (pipes and tubes) and DWV (drain waste, & vent) lines in walls behind fixtures (lines which pass thru floor to lines above ceiling, including lines above bathroom ceiling), and provide new shower pans, and fixtures to include lavatories, water closets, urinals, showers, and trim. Layout of bathroom to remain.
- 2nd floors women's community bathroom: provide all new CW HW HWR lines and DWV lines in walls behind fixtures, and provide new shower pans, and fixtures to include lavatories, water closets, showers, and trim. Provide new layout as directed by architect.
- All new fixtures shall be white vitreous china with low flow trim compliant with energy code. CW & HW and HWR lines shall be type L copper or CPVC SDR 11; insulate HW and HWR as required by code. Community shower nozzles shall be low flow single pattern non-adjustable flow or pattern. DWV lines shall be cast iron or PVC. All isolation valves shall be specifically NSF14 and or NSF 61 compliant.
- Existing Rheem water heaters (provided 2011-2013) are existing to remain. Verify compliance with code for combustion intake and relief air. Verify and provide CO (carbon monoxide) detectors as per code and good practice; currently there are no CO detectors.
- Replace ware washer Hobart with a new ventless dishwasher with new ½"-¾" cw line similar to Hobart AM15VL. Do NOT replace ware washer until all new equipment and components are on sight. Repair wall & ceiling to match existing so new cold water line can be installed.
- Provide an automatic grease trap (above ground) rated minimum 50 gpm for pot wash sink. System shall be NSF and PDI certified, UL listed and constructed of 304 stainless steel.

Piping

- 1.11.1.5 Drain, Waste and Vent (DWV) pipe and fittings shall be as approved by the IPC and in conformance with industry standard practices. Waste piping below ground supported slabs shall be cast iron or PVC to a point five feet beyond face of building unless otherwise indicated. All underslab piping shall be supported from the structural slab.
- 1.11.1.6 Water piping shall be as approved by IPC and in conformance with industry standard practices. Solder shall be lead free. Provide water hammer arresters to each bathroom group as per good practice. All distribution water piping shall be protected from freezing. All water piping shall be insulated.
- 1.11.1.7 The domestic water supply lines to each item of equipment or fixtures, except faucets, flush valves, or other control valves which are supplied with integral stops, shall be equipped with an accessible shut off valve to enable isolation of the item for repair and maintenance without interfering with operation of other equipment or fixtures. Plumbing piping shall be sized to accommodate flush valve plumbing fixtures.
- 1.11.1.8 Above ground water piping shall be CPVC (chlorinated polyvinyl choride) or Type L hard-drawn copper. CPVC shall comply with ASTM D 2846. Plastic pipe, fittings, and solvent cement used for potable hot and cold water service shall bear the NSF seal "NSF-PW." Provide transition union connections or threaded gate valve between copper tubing and CPVC piping. Solvent cement shall meet NSF 14 and shall be NSF listed for the service intended. Fittings for hard-drawn copper shall conform to ANSI B16.22, Wrought Copper and Copper Alloy Solder Joint Pressure Fittings. Under slab water supply piping shall be limited to building service entrance only.

1.11.2 Fixtures

- 1.11.2.1 Fixtures shall be provided complete with fittings with chromium or nickel -plated brass (polished bright) trim. All shutoff valves shall be metal construction. Plastic valves are not acceptable. All fixtures, fittings, and trim in the project shall be by the same manufacturer and shall have the same finish. Handicap water closets, urinals and lavatories shall conform to ADA Standards for Accessible Design for fixture height and safety insulation. Handicap lavatory faucets shall be ADA compliant.

- 1.11.2.2 Lavatories shall be manufacturer's standard sink depth, vitreous china, top-mount self-rimming. See architectural specification section for further details. Faucets shall be dual lever, washerless type and shall have all brass and copper waterways and ceramic valving. Maximum flow rate shall be 0.5 gpm, provide with vandal resistant spray head. Drain/Strainer shall be copper alloy or stainless steel.
- 1.11.2.3 Urinals shall be wall hung with new carrier. Urinals shall be complete with integral trap and extended shields, ASME A112.19.2M, siphon jet, top supply connection, and back outlet. The maximum water use shall be 0.125 gallons per flush. Install urinal rim elevation at 17" above finished floor to comply with ADA requirements.
- 1.11.2.4 Water Closets shall be vitreous china, Siphon-jet, elongated bowl, top supply spud, wall mounted with new carriers with white plastic, elongated, open front seat. The maximum water use shall be 1.28 gallons per flush.
- 1.11.2.5 The shower pan shall be solid polymer. The solid polymer material shall be a homogeneous filled polymer meeting IAPMO Z124.3 and IAPMO Z124.6 requirements. Material thickness shall be indicated on D.O.R. drawings. In no case shall the shower pan material be less than 1" thick. Shower stall wall shall also be faced with 1" thick solid polymer sheets from floor to ceiling.
- 1.11.2.6 Provide showers complete with grab bar and soap dish and fixed single-pattern single-flow fixed nozzle. The control valves shall be pressure-compensated type and have front access for adjustment and maintenance. Shower nozzle shall maximum flow rate of 1.5 gpm.
- 1.11.2.7 Floor Drains: Provide floor drains, where required and as indicated on RFP drawings, with drainage flange and slotted or perforated bronze or polished stainless steel strainers. Provide trap primers to floor drains in mechanical rooms and in locations used infrequently or where conditions might permit water seal to evaporate, allowing sewer gas or objectionable and contaminating odors to escape through drain.
- 1.11.3 Major Appliance Plumbing Connections. The Contractor shall provide appropriate connections for all appliances, vending machines, and any other items requiring water and/or drain connections. The contractor shall coordinate appliance connections with kitchen design. For kitchen equipment, the contractor shall provide equipment utilities and any other connections at capacities required by kitchen design.
- 1.11.4 Access Panels: Access panels shall be provided for all concealed plumbing equipment that requires adjustment or maintenance.
- 1.11.5 Testing: Plumbing systems shall be cleaned and tested in accordance with ICC International Plumbing Code and NFPA 54 (if applicable).

1.11.6 CONDENSATE DRAIN

Condensate drain systems shall be provided for equipment and appliances containing evaporators or cooling coils. Condensate drain systems shall be designed, constructed, and installed in accordance with the IPC. Condensate shall be conveyed to an approved place of disposal and shall not discharge into a street, alley, sidewalk, or other areas so as to cause a nuisance.

1.11.7 Installation

All Plumbing equipment and systems shall be installed in accordance with manufacturer's recommendations. Provide fire separation in accordance with applicable codes. Show all fire rated partitions and fire separation between occupancies on Plumbing drawings. Provide details for fire stop to comply with life safety codes.

1.11.8 Operations and Maintenance Manual

Provide Operations and Maintenance Manuals for all Plumbing.

1.11.9 Training

Provide instruction to Coast Guard personnel for all plumbing and fuel distribution systems and equipment. Duration of training shall be a minimum of four hours for each system or discipline. Videotaped training shall be provided to the users for operation and maintenance of all systems.

SEE PHOTOGRAPHS SECTION 1.11.11

CIVIL-PLUMBING PHOTOS MULTI-PURPOSE BUILDING

1.11. Photographs are to assist the contractor, but do NOT depict the scope of work. Photographs were taken prior to construction and/or demolition; but may not depict current conditions.



Exterior of second floor galley (kitchen). New drain line/grease line from sink required.



New drain line/grease line from sink to under-ground grease interceptor required.



HOBART dishwasher without hood to be replaced in one day with ventless warewasher with cold water.



Wash sink requires new drain line and grease trap.



Mens bathroom requires new fixtures, pipes, and finishes (same layout). Temporary bathroom facility required during construction.



Women's bathroom requires new fixtures, pipes, and finishes (new layout). Temporary bathroom facility required during construction.

**SECTION 01800
DESIGN BUILD REQUIREMENTS
HEATING, VENTILATING AND AIR CONDITIONING (HVAC)
PARAGRAPH 1.12**

HEATING, VENTILATING AND AIR-CONDITIONING (HVAC)

1.12.1 Requirements:

X
1.12.1.1 The mechanical design work and construction shall conform to the latest ASHRAE manuals and standards, ICC International Mechanical Code (IMC), SMACNA, 2007 Energy Independence and Security Act (EISA 2007), Leadership in Energy and Environmental Design for New Construction (LEED-NC), NFPA and the Energy Policy Act (EPACT) as updated in 2009. EPACT requires a 30% energy reduction from the baseline set forth in ASHRAE 90.1. Use ASHRAE 90.1-2013 for establishing the baseline energy model. EPACT also requires advanced metering of utilities with meters that automatically transmit daily usage to a centralized data base. Outside design condition shall be based on ASHRAE's 1% DB and corresponding WB temperature for cooling and 99% DB temperature for heating, or documented local historic condition, whichever is more stringent.

1.12.1.2 Demolition of equipment to be replaced shall not commence until all new equipment and components are on site ready for installation. Abate LBP and asbestos and heavy metals as detected in attached surveys as impacted by construction.

1.12.1.3 Equipment efficiencies shall meet or exceed the requirements of ASHRAE 189.1 Tables C-1 through C-8. All work shall be performed by licensed contractor and subcontractors with valid and current license in their respective trade. Installation of equipment shall comply with equipment manufacturer's recommendations and publications. Advisory provisions shall be considered mandatory. The word "should" shall be interpreted as "shall." Comply and follow all equipment manufacturer's recommendation and best practices for installation.

*Required
Site
Visit? X*
1.12.1.4 All areas of the building, with the exception of the storage room, Janitor's closet, and the mechanical/electrical room, shall be conditioned to meet ASHRAE 55 standards, to 70°F in the winter and 75°F in the summer. The HVAC systems selection shall be designed to accommodate all building operations and equipment selection shall ensure that the building environment shall be properly maintained within the desired parameters during "off-peak" conditions, as well as during "peak" conditions. The contractor shall be responsible for a site visit to obtain all of the equipment heat loads, periods of operation, and any other information relevant for use in running their HVAC analysis.

1.12.1.5 HVAC Issues: uneven heating and cooling, insufficient thermostats for proper zoning, long lead time to replace units, when unit is inop, too much disruption (prefer smaller off the shelf units), supply ductwork leaks into plenum above. Provide cooling and heating (as per International energy Code 75° summer and 70°F winter) during construction to all spaces which currently have heating and cooling. Replace two split DX units(AC unit A and AC unit B) with six DX units (split and or package heat pump units) properly sized for summer indoor design of 75 degree cooling and winter indoor design 70 or degree heating. Demolish existing space heating boiler and AC units. Provide HVAC calcs, outdoor air calcs, exhaust calcs, and air balance calcs. All coils shall have minimum 5,000 hours corrosion protection as per ASTM 117b. Due to USCG operations, the communications office and minimum of four bedrooms (berthing rooms) shall be functional cooled and heated at all times. Coordinate work with USCG COR in advance.

- Replace and redesign all supply air duct mains in the circular corridor. Ductwork shall be G90 galvanized sheet metal or duct board with matt liner (no fiberglass shall be exposed to airstream). Branch lines may be reused to minimize disruption to station and prevent replacing of ceilings. Insulated flex duct may be used and shall not exceed eight feet in length. All air devices on 2nd floor shall be new and shall be painted white aluminum with a face damper for balancing; no perforated diffusers or perforated returns are allowed, air devices (supply and return) shall be louvered type or multiicone type.
- MP building 2nd floor, AC system designed for total 40 occupants.
- MP building 2nd floor, design and provide new fire dampers and fire rated grilles/registers from corridor into sleeping units (berthing rooms) and other fire rated wall penetrations..

- Galley (kitchen) space: Provide dedicated DX unit (package unit on roof preferred pending structural analysis by AE design team) for space with thermostat with night set back. Add ducted return air. Provide UV lighting on evaporator coil.
- Mess (dining) space: Provide dedicated DX unit (package unit on roof preferred pending structural analysis by AE design team) for space with thermostat with night set back. Add ducted return air. Provide UV lighting on evaporator coil.
- Recreation (training) space: Provide dedicated DX unit (package unit on roof preferred pending structural analysis by AE design team) for space with thermostat with night set back. Add ducted return air.
- Office space: Provide dedicated split DX unit for space with thermostat with night set back. Provided ducted return air.
- Berthing (sleeping units, approximately 5) North space: Provide dedicated split DX unit for rooms with remote thermostat (in mechanical room) with remote air sensor. (no night setback).
- Berthing (sleeping units, approximately 5) East space: Provide dedicated split DX unit for rooms with remote thermostat (in mechanical room) with remote air sensor. (no night setback).
- Replace and resize all bathroom exhaust fans. Replace and resize galley serving line exhaust fan and provide wall mounted variable speed controller.
- Provide new hood fire suppression system with auto shutoff of gas and electric interlocked with FA panel. Clean existing grease exhaust ductwork.

1.12.1.6 WPB Building Generator is required 24/7 do NOT interfere with generator operations during constructions. Equipment shall be compatible with Catapillar 3308 (250kw/313KVA; 208/120v; 3 phase; 869 amps). Provide new generator engine exterior exhaust lines above roof (6"). All exhaust items shall be stainless steel 304 to include replacement double -all exhaust thimble, schedule 40 pipe above roof, and rain cap.

1.12.1.7 Fresh air ventilation shall be provided in accordance with ASHRAE 62.1 and the ICC Mechanical Code. Outdoor air shall be conditioned prior to being introduced into occupied spaces. All outside air intakes shall be located a minimum of 10 feet above grade. All exhaust outlets shall be located in accordance with the ICC Mechanical Code.

1.12.1.8 HVAC Controls: Provide wall mounted, digital, electronic controls with automatic night setback thermostat with COOL-OFF-HEAT system switch and AUTO-ON fan switch. Berthing rooms shall NOT have night setback. Thermostats shall be provided by unit manufacturer's and shall be electrical/electronic type. Pneumatic controls are not permitted. All 120-volt wiring shall comply with NFPA 70. All 24-volt wiring shall comply with the NEC and terminal device manufacturer's recommendations.

1.12.1.9 Thermostats shall have a user-adjustable +/- 2 degrees temporary override with an adjustable timer and battery backup.

1.12.2 HVAC ductwork:

1.12.2.1 All HVAC shall be insulated ductboard with liner or insulated G90 sheet metal. Sheet metal ductwork shall be G90 galvanized sheet metal, fabricated, constructed, braced, reinforced, installed, supported, and sealed to Seal Class A in accordance with SMACNA DCS. Ductboard with liner Rigid Fibrous Glass Duct board with Acrylic Polymer Liner. ASTM G-21/G-22 bonded-glass-fiber duct board with mat anti-microbial acrylic-polymer liner and foil-scrim kraft (FSK) jacket with EI800 rating. All aspects of ductwork construction, including all fittings and components, shall comply with SMACNA FGDCS and NAIMA AH115 Standards. Elbows greater than 45 degrees shall be with factory fabricated turning vanes. Closure system shall comply with UL181. Flexible rigidity shall be EI800 with a static pressure Class 1 inch w.g. Sealants and components shall conform to NFPA 90A and 90B. Seal all joints with water-based mastic.

1.12.2.2 All ducts other than exhaust ducts shall be insulated with exterior duct wrap insulation. Exhaust ducts shall be insulated the last 6 feet to the weather. Ducts located in mechanical rooms or exposed areas subject to abuse shall be insulated with rigid duct insulation.

1.12.2.3 All HVAC equipment returns shall be ducted. Ceiling plenums are not allowed for return air usage.

1.12.3 HVAC Piping:

1.12.3.1 All piping located in unconditioned areas shall be insulated with closed cell insulation.

1.12.4 HVAC System Testing:

1.12.4.1 Balance and adjust systems and equipment to provide the specified operation within $\pm 5\%$ of design volumetric flow rates. Provide system test, control sequence of operation test and an independent certified air/hydronic flow test/adjustment/balance (TAB)(include the coil data sheets). The TAB agency shall be either a member of the Associated Air Balance Council (AABC) or certified by National Environmental Balancing Bureau (NEBB) or Testing, Adjusting, and Balancing Bureau (TABB), and certified in all categories and functions where measurements or performance are specified on the plans and specifications, including building air balance with all outdoor air intakes and all exhaust systems. Signed approval shall be obtained from the designer-of-record and three copies of the TAB report shall be submitted to the Contracting Officer for final approval.

1.12.5 Fire Stop, Fire Dampers

Provide fire separation in accordance with applicable codes. Show all fire rated partitions and fire separation between occupancies on HVAC drawings. Provide details for fire damper and fire stop to comply with life safety codes.

1.12.6 Operations and Maintenance Manual:

Provide Operations and Maintenance Manuals for all HVAC systems in accordance with Specification Section 01781 Operation and Maintenance Data.

1.12.7 Training:

Provide instruction to Coast Guard personnel for all HVAC systems and equipment. Duration of training shall be a minimum of 15 minutes for each system or discipline.

SEE PHOTOGRAPHS SECTION 1.12.8

HVAC PHOTOS MULTI-PURPOSE FACILITY

1.12.8 Photographs are to assist the contractor, but do NOT depict the scope of work. Photographs were taken prior to construction and/or demolition; but may not depict current conditions.



Dining requires dedicated DX HVAC system with thermostat (package DX on roof preferred)



Kitchen requires dedicated DX HVAC system with thermostat (package DX on roof preferred)



Conference room requires dedicated DX HVAC system with thermostat (package DX on roof preferred)



Offices requires dedicated DX HVAC system with thermostat (split DX with heat pump on roof preferred)



SPACE HEATING: Provide heat pump DX units and demolish hydronic space heating system.



One of two of existing split DX units to be resized and replaced with smaller DX units.



One of two of existing split DX units to be resized and replaced with smaller DX units.



Four DX units serving 2nd floor to be demolished. Six new DX units (split and package) to be provided for space cooling and heating.

**SECTION 01800
DESIGN BULD REQUIREMENTS
ELECTRICAL
PARAGRAPH 1.13**

1.13 ELECTRICAL

Electrical system design and construction shall comply with NFPA 70 and IEEE C2, as applicable. Install materials and equipment in compliance with applicable codes and manufacturers' printed instructions. In each code and standard referenced, consider advisory provisions to be mandatory as though the word "shall" had been substituted for "should" everywhere "should" appears.

1.13.1 Electrical Service

Provide temporary electrical service to temporary bathroom trailers from the existing facility electrical distribution system.

1.13.2 Wiring methods:

All wiring, including wiring for fire alarm, public address, cable television, intrusion, CCTV and other systems, shall be installed in conduit, unless specified otherwise. Provide a green color insulated equipment grounding conductor in all raceway with ungrounded conductors. Provide a separate neutral conductor with each branch circuit in offices and computer workstation areas.

1.13.2.1 Conduit in interior locations shall be minimum size ½ inch except: 1) where larger sizes are recommended by equipment manufacturers or required for code compliance; 2) cable tray may be used to carry telecommunications cable; 3) Type MC cable may be used for branch circuit wiring run above suspended lay-in tile ceilings; and 4) where specified otherwise. Wiring shall be run concealed or above suspended ceilings in finished spaces and may be run exposed elsewhere.

1.13.2.1.1 Conduit shall be: rigid steel (zinc-coated); intermediate metal conduit, zinc-coated steel only; electrical metallic tubing (EMT); flexible metal conduit; liquid-tight flexible steel conduit; and other types as specified for special power systems.

1.13.2.1.1.1 Fittings: Cadmium or zinc coated for metal conduit, EMT and flexible metal conduit; threaded type (split couplings are unacceptable) for rigid metal conduit and IMC; and compression type for EMT.

1.13.3 Conductors

1.13.3.1 Conductors: All conductors shall be copper, except type AA-8000 series electrical grade aluminum conductors may be used for service entrance conductors only, manufactured within 12 months of date of delivery. Power and lighting conductors shall be minimum size #12 AWG, 600 volt, type THWN/THHN or XHHW.

1.13.4 Receptacles and Equipment Connections:

Provide electrical receptacle outlets and hard-wired equipment connections as: required for specific equipment items; required by the National Electrical Code (NFPA 70); required by the Space Criteria Sheets; as a minimum in accordance with the following general criteria; and as otherwise specified. Receptacle outlets shall be specification grade, heavy duty, grounding type, wall mounted 15" (for UFAS compliance) above the finished floor unless specified otherwise. Receptacle outlets shall be NEMA 5-20R duplex type connected to 20 ampere, 120 volt circuits unless otherwise specified; no more than six duplex or three quad receptacles shall be connected on a single branch circuit. Provide special purpose receptacle outlets for cord and plug connected equipment with configurations to match equipment plug requirements. Provide GFCI and AFCI protected outlets per NFPA 70 and as specified. Receptacles connected to emergency power shall be red color.

1.13.4.1 General Criteria

1.13.4.1.1 Training Rooms: Provide one outlet for every 12 feet of wall space measured at the floor line.

1.13.4.1.2 Kitchens: Provide one general purpose outlet for every 3 feet of countertop, but not less than one per countertop. Provide one general purpose outlet for each 10 feet of wall space at the floor line, excluding counter top areas. Provide additional outlets as required for specific equipment items, with dedicated circuits as specified. All outlets shall be GFCI protected.

1.13.4.1.3 Corridors: Provide a minimum of one general-purpose hospital grade outlet for every 40 feet of lobby/vestibule/corridor length with a minimum of one outlet per space. Connect lobby, vestibule and corridor receptacles on circuits separate from those serving office areas.

1.13.4.1.4 Toilet Rooms/Bathrooms: Provide one GFCI protected outlet adjacent to each sink, wall mounted 6 inches above the counter top or top of the sink.

1.13.4.1.5 Berthing rooms: Berthing rooms: Provide outlets per NFPA 70, Article 210.60.

1.13.4.1.6 Open Boat Storage: The Electrical Branch Circuit for the New Open Boat Storage will be provided from the an existing spare circuit available in an existing panel in the Generator Room, in the WPB Building.

1.13.4.1.7 Galley: Provide outlets, switches and hard wired connections as required for specific equipment based on the equipment layout and equipment requirements. Provide GFCI protected general purpose outlets where practical based on the equipment layout.

1.13.5 Lighting

1.13.5.1 Interior Lighting:

General Requirements: Interior illumination shall be provided by fluorescent, LED and/or HID type lamps; incandescent lamps shall not be utilized unless they are only type of lamp available for a specific lighting application. Minimize the number of different lamp types utilized. Provide dimming for lighting of areas where tasking requires varying illumination levels (e.g. training rooms, conference rooms)

Use the following target maintained illumination levels for the lighting design for the spaces listed; use IESNA recommendations for other spaces unless specified otherwise; calculations shall be based on the IESNA 36 month LDD factor for the category of luminaire. Lighting levels in a given space shall not be less than 80% of target level; any reduction of illumination level below 80% of target illumination level for a space, such as in order to meet ASHRAE 90.1 lighting power density requirements or for obtaining LEED points for optimizing energy performance, shall be approved by the Contracting Officer.

Space	FC Illumination
Unoccupied spaces	10 FC
Storage, Corridors, Mech. & Elec. Rooms	20 FC
Rest Rooms (toilets)	30 FC
Vestibule,	20 FC
Berthing,	30 FC
Training, Conference,	50 FC (dimnable)
Telecomm Equip rooms]	50 FC
Offices	50 FC
Galleys	70 FC
Open Boat Storage	30 FC

1.13.5.1.1 Fluorescent fixtures shall have electronic ballasts. Maximize use of fixtures with T-5 and T-8 lamps. Fixtures in office and computer work areas shall be volumetric type; fixtures with minimum .156 inch thick prismatic acrylic lenses may be used in other finished areas. Industrial and strip fixtures with full solid steel end plates may be used in equipment rooms, shop spaces and other unfinished areas; fixtures shall have wire guards where subject to damage by operations in the space.

1.13.5.1.2 HID lamps shall be metal halide pulse start type. Provide quartz auxiliary lamps or supplementary fluorescent lighting in areas otherwise illuminated solely by HID fixtures.

1.13.5.1.3 Exit lights shall be LED type with emergency battery back-up.

1.13.5.1.4 Provide emergency battery lighting to illuminate paths of egress in toilet rooms and corridors. Emergency battery lighting shall be provided either by separate battery pack type fixtures or by use of battery packs in standard lighting fixtures. Battery pack type fixtures shall have maintenance free nickel cadmium or lead acid batteries.

1.13.5.1.5 Berthing Rooms: Provide lighting in the berthing room areas that will be remodeled. Lighting maybe direct/indirect fluorescent lighting (surface fixtures are acceptable where no ceiling cavity exists) to achieve the required foot-candles; provide lighting control in the berthing area. Provide separately controlled illumination of the entry door area *[where applicable based on floor plan]* using either overhead lighting and/or over mirror lighting so that this lighting may be turned on without having to turn on the main berthing room area lighting. Provide separate lighting in shower areas where the overhead toilet room lighting or over mirror lighting does not adequately illuminate the shower area.

1.13.5.1.6 Provide wall mounted over mirror fixtures in toilet rooms in addition to ceiling mounted lighting fixtures.

1.13.6 Lightning Protection System:

1.13.6.1 Re-install existing lightning protection system. The system shall be master labeled by a testing laboratory or by a testing laboratory certified installer.

END OF PARAGRAPH

**SECTION 01800
DESIGN BUILD REQUIREMENTS
ENVIRONMENTAL PERMITS, CONTROLS, AND PROTECTION
PARAGRAPH 1.18**

1.18 GENERAL

During all phases of this project the contractor shall comply with all applicable federal, state, and local environmental requirements. Contractor shall incorporate environmental requirements early in the design phase and ensure environmental compliance throughout all project phases.

Environmental permitting requirements can vary significantly from locality to locality. In addition to federal requirements, the Contractor must understand, incorporate, and manage any unique local and state requirements applicable to this specific site.

1.18.1 APPLICABLE PUBLICATIONS

The publications listed below form part of this specification. The contractor shall comply with all applicable federal, state, and local regulations and laws.

1.18.1.1 ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS:

40 CFR	Protection of the Environment
40 CFR 112	Oil Pollution Prevention
40 CFR 136-143	Water Programs
40 CFR 204	Noise Emission Standards for Construction Equipment
40 CFR 260-279	Solid Waste Regulations
40 CFR 280-282	Underground Storage Tank Regulations
40 CFR 311-374	Worker Right-to-Know
40 CFR 761	Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions

1.18.1.2 U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATION:

29 CFR 1910	Worker Safety Requirements
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1.18.1.3 ADVISORY COUNCIL ON HISTORIC PRESERVATION (ACHP) REGULATION:

36 CFR 800	Protection of Historic Properties
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1.18.1.4 U.S. DEPARTMENT OF TRANSPORTATION REGULATIONS:

49 CFR 100-199	Hazardous Materials Transportation, Handling, and Storage Regulations
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1.18.1.5 ADDITIONAL STATUTES

The statutes listed below form part of this specification:

- Clean Air Act (CAA) - (42 U.S.C. 7401 to 7642)
- Clean Water Act (CWA)
- Safe Drinking Water Act (SDWA)
- Coastal Zone Management Act (CZMA)

- Comprehensive Environmental Response, Compensation, and Liabilities Act (CERCLA) - (42 U.S.C. 9601 to 9675)
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) - (7 U.S.C. 136 to 139y)
- National Historic Preservation Act (NHPA)
- Noise Control Act (NCA) - (42 USC 4901 to 4918)
- Pollution Prevention Act (PPA) - (42 U.S.C. 13101 to 13109)
- Resource Conservation and Recovery Act (RCRA) - (42 U.S.C. 6901 to 6991i)
- Solid Waste Disposal Act (SWDA) - (42 U.S.C. 6901 to 6991i)
- Toxic Substance Control Act (TSCA) - (15 U.S.C. 2601 to 2654)
- Energy Independence and Security Act of 2007 (EISA)
- Endangered Species Act (ESA)
- Emergency Planning and Right-to-Know Act (EPCRA)

1.18.2 PROJECT RELATED ENVIRONMENTAL PERMITS, CONSULTATIONS & CERTIFICATIONS

Timely acquisitions of all necessary design and construction related permits shall be the responsibility of the Contractor. Some permits may contain time-of-year restrictions and require substantial lead-time to obtain.

The contractor shall be responsible for identifying and obtaining all required permits, approvals, notifications, utility permits, utility impacts, FAA notifications/permits, FCC notifications/permits, concurrences, consultations, consistency reviews (to include Coastal Zone), and certifications (hereafter called permits) from federal, state, and local regulatory agencies. With the exception of storm water construction permits for temporary land disturbing activities (see paragraph 1.18.3.4), the Government will not delegate "Agent" authority to the contractor; the Coast Guard will sign all permit applications and submissions to regulatory agencies that require signatures. The contractor is responsible to prepare all permit applications and to pay all permit application fees and associated costs as part of this contract. The contractor shall be responsible for incorporating all permit conditions and constraints into the design and ensuring compliance with permits is maintained throughout the project. The contractor shall be responsible for preparing all permit closure documents required once work governed by the permit is completed. All permit application submittals and other submittals/correspondence with permitting/regulatory agencies will require contractor to prepare a professionally written accompanying cover letter.

The contractor shall prepare for and assume a leading role in any regulatory agency or public meetings/presentations associated with the permitting process.

Permit application packages shall be submitted in written form (in lieu of on-line/internet applications) to regulators wherever possible. On-line applications shall be accomplished by Contractor.

The contractor's key personnel to include project managers (design and construction) and field superintendents shall read, understand, and ensure compliance with all permit conditions. All required permits shall be in place prior to beginning any site work.

1.18.3 ENVIRONMENTAL SUBMITTALS

Provide the following submittals to the Contracting Officer in accordance with Section 01330, "Design-Build Submittal Procedures."

1.18.3.1 Environmental Protection Plan

STA Grand Isle, LA

The purpose of the Environmental Protection Plan is to describe in detail methods and procedures by which the contractor intends to minimize/mitigate adverse impact to the environment resulting from this work. The plan shall be structured/formatted such that the elements below make up the plan's sections in the same order presented. The plan is to be site and project specific; discuss elements below as they specifically related to the project and site. As a minimum the plan shall document the contractor's means and methods for complying with the specification requirements with the following elements included:

- 1.18.3.1.1 General Information: Provide a general overview of the environmental plan including its purpose, general site information, and a letter designating an Environmental Manager for the project signed by an officer of the firm.
- 1.18.3.1.2 Environmental Program Management: Provide the names of individuals and/or the environmental consultants who will be responsible for overseeing and ensuring environmental compliance during both the design and construction phases of this project. Discuss their previous work experience working with the state and regional environmental regulators and permitting agencies this project will be conducted in. Provide a discussion of their responsibilities and experience with maintaining environmental compliance. Include a discussion of how environmental concerns will be managed and incorporated in the design phase and continue through construction. Discuss how specific project environmental concerns, environmental permit concerns, and environmental permit conditions will be effectively communicated to key project personnel, project managers, subcontractors, construction workers, and other key contractor employees associated with this project.
- 1.18.3.1.3 Protection and Preservation of Natural Resources: Provide a description of any anticipated site specific natural resources that must be protected during the project and the plan to protect these resources. Discuss management of any endangered species or critical habitat. Provide steps to be taken should unknown natural resources be discovered during construction.
- 1.18.3.1.4 Noise and Dust Control: Discuss project specific anticipated noise and dust concerns and controls to be incorporated into the design. As applicable include a discussion of paint over spray.

Submit two (2) hardcopies and one (1) electronic copy of a draft Environmental Protection Plan for government review as part of the first design submittal package. Incorporate any government comments received as appropriate and provide three (3) final hardcopies and one (1) final electronic copy of a final Environmental Protection Plan within fourteen (14) days of receiving government comments.

1.18.3.2 Permit Application Draft Packages

Submit two (2) copies for the Government's review and approval the following:

- 1. Completed application.
- 2. Draft application cover letter – The cover letter shall be addressed to the appropriate person/point of contact within the permitting agency, include a clear and precise narrative describing the scope of the project, and adequately summarize why the permit package is being submitted. Contractor shall use the cover letter template provided as the basis of format.
- 3. Draft public notice advertisement (if any)
- 4. Generally, the Signature block utilized for all applications and cover letters shall be as follows (drafts and final):

Applicant: United States of America in the Person of the U. S. Coast Guard Civil Engineering Unit , Miami.

Signature: Michael E. Kicklighter, P.E.
Commander, U. S. Coast Guard
Civil Engineering Unit, Miami

The government shall notify or advise the contractor of any changes in this Signature Block or Applicant and the contractor shall adjust accordingly.

The government shall review draft permit applications within fourteen (14) days, and provide comments back to the contractor.

1.18.3.3 Permit Application Final Packages

Submit three (3) copies for the Government's review and approval the following:

Incorporate all Government comments and provide the following for signature and submission (by the Coast Guard) to regulatory agency(s):

Final completed application

1. Final Permit Cover Letter
2. Public notice (if any) – Place all public notice advertisements required for each application in the required public forum (newspaper, library, website, etc.). Advertisements shall be placed so as to properly coincide with permit approval/submission. The contractor shall pay for and incorporate all associated public notice fees into this contract.
3. Application fees (certified check)
4. Proper number of exhibits/attachments (as required by regulatory agency) for the application plus two (2) additional copies for the government (paper copies)
5. Electronic copies of all documents, applications, cover letters, exhibits, attachments, plans, etc. in both .pdf format and MS Word format on compact disk (CD). Wherever possible utilize fillable forms and editable formats to facilitate any final editing requirements.
6. The government will submit permit application packages to the provided regulatory address, and will provide the contractor with copies of all permit packages submitted within fourteen (14) days of receiving them.
7. **Should regulatory agencies require additional or corrected information in the permit application package, the government will notify the contractor within fourteen (14) days of receiving this request from permitting agency. The contractor shall then be responsible for providing the additional information or permit application corrections in accordance with procedures defined in Sections 1.18.3.3 and 1.18.3.4.**

1.18.3.4 TEMPORARY AND PERMANENT STORM WATER CONTROLS

The National Pollutant Discharge Elimination System (NPDES) storm water program requires construction site operators engaged in clearing, grading, and excavating activities that disturb 1 acre or more, including smaller sites in a larger common plan of development or sale, to obtain coverage under an NPDES permit for their storm water discharges. Most states are authorized to implement the Storm water NPDES permitting program. State and local regulatory requirements may be more restrictive than federal regulatory requirements. Incorporate all applicable local and state storm water regulatory requirements. The EPA remains the permitting authority in a few states, territories, and on most land in Indian Country. In areas where EPA is the permitting authority, construction site operators must meet the requirements of the EPA Construction General Permit (CGP).

STA Grand Isle, LA

During the design phase, the contractor shall become familiar with all local, state, and federal storm water requirements (temporary and permanent storm water controls) and ensure that these requirements are incorporated into the design and construction activities. Contractor shall also meet the storm water requirements defined in the Energy Independence and Security Act (EISA) of 2007, Section 438.

Contractor shall also become familiar with and meet the requirements of any Municipal Storm Water system and its associated program/requirements that the project will discharge storm water into.

1.18.3.4.1 Storm Water Construction Permits – soil and erosion permits related specifically to Construction Activity

For any required federal, state, or local permits related specifically to soil and erosion control during construction activities, and where such agencies allow the government's contractor to apply directly for such permits, the contractor shall apply directly to the appropriate permitting agency for permit coverage. Should agencies require the "owner" to submit permits, complete this permit process in accordance with Sections 1.18.3.2 through 1.18.3.3. Application packages submitted by the contractor directly to the regulator shall be signed by the contractor and not delegated to any subcontractors or other third parties.

Prior to submitting permit applications and plans, the contractor shall provide draft copies of all related permit applications, related plans, storm water pollution prevention plans (SWPPPs), and other supporting storm water documents to the government for review. The SWPPP shall adequately address all storm water runoff contamination concerns and meet all federal, state, and local requirements and associated permit conditions/requirements. The government shall provide comments for incorporation back to the contractor within fourteen (14) days.

The contractor shall address any regulatory agency comments in a timely manner, so as not to delay the contract. All required permits shall be in place prior to beginning any site work.

Within fourteen (14) days, the contractor shall provide the government with written and electronic copies of all final Notices of Intent (NOIs), correspondence submitted to and received by regulatory agencies, project construction startup and closeout notifications, and other permit correspondence (to include copies of the actual permits issued). The contractor shall provide four (4) copies of final SWPP to the government within fourteen (14) days of receiving the government's comments on the draft SWPPP.

1.18.3.5 Coast Guard Facilities With Existing Spill Plans

In the event the project occurs on CG facilities that have Spill Prevention Control and Countermeasures (SPCC) Plans, the Contractor's design and construction practices shall be in compliance with the SPCC's guidelines, goals, and objectives.

1.18.3.6 Coast Guard Facilities With Existing Storm Water Plans or Permits

In the event the project occurs on CG facilities that already have (or discharge to) an established Municipal Separate Storm Sewer System (MS4) permit and/or Storm Water Management (SWM) Plan, the Contractor's design and construction practices shall be in compliance with the MS4 permit and SWM plan guidelines, goals, and objectives.

1.18.4 TEMPORARY ENVIRONMENTAL CONTROLS

Protect the environment and preserve natural and cultural resources during construction. Comply with all Federal, State and Local regulations that pertain to the environment.

1.18.4.1 NATURAL RESOURCE PROTECTION

1.18.4.1.1 Fish And Wildlife

Do not disturb fish, wildlife, or critical habitat, except as specifically permitted in writing by regulatory permitting agencies. Contractor shall maintain compliance with any permit conditions governing fish, wildlife, and critical habitat at all times. At all times, maintain compliance with the Endangered Species Act. Do not alter water flows or otherwise significantly disturb the native habitat adjacent to the project

and critical to the survival of fish and wildlife, except as specifically permitted in writing by regulatory permitting agencies.

1.18.4.1.2 Water Resources

At all times, prevent oil or hazardous substances from entering the ground, drainage areas, or navigable waters.

1.18.4.1.3 Temporary Fueling and Fuel Storage

Conduct fueling and lubricating operations of equipment and motor vehicles in a manner that protects against spills and evaporation. Appropriate spill kits shall be provided at construction site. All used oil generated on site shall be managed in accordance with 40 CFR 279.

Where possible, minimize the capacity of aboveground storage tanks (ASTs) placed on-site for the purpose of storing petroleum products. Prior to placing storage tanks on-site, the contractor shall verify any state requirements for temporary tank registration, prepare any registration documents, and abide by all applicable regulations. All temporary ASTs shall have built-in/integrated secondary weatherproof containment designed to hold the total capacity of the AST, and meet all Spill Prevention Control and Countermeasures requirements found in 40 CFR 112.

1.18.4.1.4 Releases/Spills Of Oils Or Hazardous Substances

Take precautions to prevent releases/spills of oil and hazardous substances. Maintain adequate and appropriate spill kits at construction site in order to properly respond to a release. In the event of any releases of oil and hazardous substances, chemicals, or gases; immediately notify the Contracting Officer. Contain and clean up these spills without cost to the Government. If Government assistance is requested or required, the Contractor shall reimburse the Government for such assistance.

1.18.4.1.5 Storm Water Controls During Construction

Construction site sediment runoff shall be prevented from entering any storm drains, and prevented from degrading areas adjacent to the construction due to siltation and sedimentation, by the use of appropriate erosion and sediment controls. Contractor shall provide erosion protection of the surrounding soils.

Provide temporary protection on sides and back slopes as soon as rough grading is completed or sufficient soil is exposed to require erosion protection. Protect slopes by accelerated growth of permanent vegetation, temporary vegetation, mulching, or netting. Stabilize slopes by hydroseeding, anchoring mulch in place, covering with anchored netting, sodding, or such combination of these and other methods necessary for effective erosion control.

There shall be no discharge of excavation ground water to the sanitary sewer, storm drains, or bodies of water without appropriate permits and prior specific authorization of the Contracting Officer's Representative in writing. Discharge of hazardous substances will not be permitted under any circumstances.

Contractor shall comply with all state and federal regulatory agencies governing construction run-off controls. Contractor shall comply with all construction storm water control permit conditions.

1.18.4.1.6 Dust Control

Keep dust down at all times including non-working hours. Dry power brooming is not permitted; instead use vacuuming, wet mopping, or wet brooming. Air blowing is permitted only for cleaning non-particulate debris such as steel reinforcing bars. When sandblasting or spray painting, provide tarp drop cloths and windscreens under and around blasting and painting operations to confine and collect dust, sand, paint, and debris. Concrete blocks, concrete, and asphalt shall be wet cut.

1.18.4.1.7 Volatile Organic Compounds (Voc)

The Contractor and all subcontractors are required to comply with the local VOC laws and regulations and shall have an acceptable VOC compliance plan. The plan shall demonstrate that the use of paints, solvents, adhesives, and cleaners comply with local VOC laws and regulations governing VOC materials, and that all required permits have been obtained or will be obtained prior to starting work involving VOC's, in the air quality district in which the work will be performed. An acceptable compliance plan shall

contain, as a minimum, a listing of each material subject to restrictions in the air quality management district in question, the rule governing its use, a description of the actions which the contractor will take, a description of the actions which the contractor will use to comply with the laws and regulations, and any changes in the status of compliance during the life of the contract. Alternatively, if no materials are subject to the restrictions in the air quality management district where the work will be performed, or if there are no restrictions, the compliance plan shall so state.

1.18.4.1.8 Class 1 ODS Prohibition

Class 1 ODS (Ozone Depleting Substances) as defined in Section 602(a) of the Clean Air Act shall not be used in the performance of this contract, nor be provided as part of the equipment associated with the work. This prohibition shall be considered to prevail over any other provisions, specification, drawing, or referenced document.

1.18.4.1.9 Waste Management

Pick up waste and debris and place in covered containers furnished by the Contractor. Empty containers and remove waste and debris from Government property at least weekly. Do not allow containers to become overfilled. Remove wastes without spilling or contaminating streets, the site, and other areas. Offsite disposal shall be at a licensed landfill and shall comply with all local, state and federal requirements. In the event that hazardous waste is generated, the contractor must notify and coordinate its shipment through the Contracting Officer to ensure the correct hazardous waste shipping ID is used and the government has a correct accounting of what is being shipped. Only licensed transport companies and licensed hazardous waste disposal facilities shall be used. Copies of all shipping manifest must be provided to the contracting officer.

1.18.4.1.10 Noise

Make the maximum use of "low-noise-emission products" as certified by EPA and described at 40 CFR Part 204. No blasting or use of explosives is permitted. Comply with federal, state, and local noise control laws and regulations.

END OF PARAGRAPH

SECTION 01801
TEMPORARY SITE AND FACILITIES
DESIGN-BUILD REQUIREMENTS

1.1 TEMPORARY STRUCTURES

1.1.1 General:

1.1.2 The Multi-Purpose Building requires temporary restroom and shower facilities during the construction period. The Contractor shall provide a temporary modular building or trailer will house a minimum of three (3) lavatories, three (3) water closets, and three (3) showers. The temporary facilities shall include complete erection and removal of the facilities, and utilities including water, power, sanitary, and HVAC, etc.

1.1.3 The general requirements for the restrooms and shower functions are as described below. Contractor shall provide temporary modular unit to accommodate the requirements. The temporary facilities shall be erected in an area near the Multi-Purpose Station Building.

1.1.4 Temporary restroom and showers facility shall be non-combustible construction and meet all applicable building codes and UFAS standards for accessibility by the handicapped.

Provide power to the modular building from the existing electrical distribution system in the Multi-Purpose Station Building.

2.1 REFERENCES, CODES AND STANDARDS

Design and construction shall, at a minimum, be in accordance with the following documents to the extent cited in the text. Codes, standards and publications are referenced in the text by their basic designation only. The latest editions, at the time of bid proposal shall be used, unless otherwise noted.

International Code Council

International Building Code (IBC)

International Fire Code (IFC)

International Plumbing Code (IPC)

International Mechanical Code (IMC)

International Fuel Gas Code (IFGC)

Institute of Electrical and Electronics Engineers

National Electrical Safety Code (NESC) - 2007

National Electrical Contractors Association (NECA)

National Electrical Installation Standards (NEIS) – 2000

National Fire Protection Association (NFPA) –Latest Edition

State of Texas

2008 Department of Transportation Standard Specifications for Construction

U.S. Department of Defense

Unified Facilities Criteria (UFC) (download from www.wbdg.org)

U. S. Federal Regulations

Uniform Federal Accessibility Standards (UFAS)

Occupational Safety and Health Association (OSHA)

Code of Federal Regulations (CFR)

CFR Title 14 Part 77.13

2.2 ROLE OF REQUEST FOR PROPOSAL (RFP) SPECIFICATIONS AND DRAWINGS

2.2.1 General

The Contractor shall provide all necessary materials, equipment, labor and services required to provide complete and useable facilities for its intended purpose as Restroom and Shower Facility

2.2.2 Contractor-produced Construction Design Documents

The Contractor shall provide design documents in compliance with Section 01802 "Construction Design Drawings."

2.2.3 RFP Data

The design data indicated on this RFP are the minimum requirements, i.e., baseline requirements to be used by the Contractor to develop the project design. The Contractor shall add to, supplement, and complete these drawings to fully comply with the documentation requirements specified in Section 01802 "Construction Design Documentation." The design and design data on the RFP drawings shall not be changed unless the requirements of paragraph "Deviations from Procurement Documents" of Section 01802 are met.

2.2.4 Seal on Documents

All Final Contractor-produced construction design drawings and calculations shall be signed, dated, and bear the seal of a registered Architect or Engineer, for all site, power and utility design documents. The seal shall be the seal of the Designer of Record, licensed in the State of Texas for that drawing or calculation.

2.3 DESIGN RELATED PERMITS & CERTIFICATIONS

2.3.1 Permits

The Contractor shall be responsible for identifying and the timely acquisition of all necessary design and construction related permits, approvals, concurrences and certifications (hereafter called "permits") from regulatory agencies.

Required permits and consultations are expected to include, but not be limited to, the following:

- a. Those required for utility service extensions and hookups.
- b. Storm water prevention and pollution plan.

As part of the first design Submittal, provide a complete summary of all permits/approvals required for the project. As a minimum, the following information shall be provided for each required permit.

Name of Permit/Approval

Regulatory Review Agency

Regulatory Agency Address

Regulatory Agency Point of Contact

Regulatory Agency Phone Number

Public Notice Required (Yes/No)

Application Fee

Approximate Review Period

Public Meetings Required

The Contractor shall comment on any difficulties expected in obtaining approval for each permit/approval application.

Submit for the Government's review and approval the following:

- a. Complete applications
- b. Draft application cover letters
- c. Draft public notice advertisements (if any)

Within seven (7) calendar days of review by the Government, incorporate all Government comments and provide the following for Coast Guard signature and submission by the Coast Guard to regulatory agencies.

- a. Completed application forms
- b. Public notices (if any)
- c. Application fees (certified checks)
- d. Proper number of exhibits/attachments (as required by regulatory agency) to application
- e. One compact disk (CD) with .pdf files of each completed application form, public notice, certified check, and exhibits/attachments; and an MS Word format copy of each application cover letter. Include all applicable documents within separate electronic folders for each required permit.

Generally, the following text will be used for each application.

Applicant: United States of America in the Person of the
U. S. Coast Guard, Civil Engineering Unit Miami

Signature: Michael E. Kicklighter, P.E..
Commander, U. S. Coast Guard
Civil Engineering Unit, Miami

Include the following statement below the signature block: "The above signed has the authority to represent the U. S. Coast Guard."

2.4 CIVIL AND SITEWORK DESIGN

2.4.1 Design Requirements Overview

Design shall meet the City of Grand Isle and the Louisiana Department of Transportation "Standard Specifications for Construction", 2008 edition.

The temporary restroom and shower facilities finished floor elevations shall be a minimum one foot above the existing grade at the structure installation location. Location of existing utilities indicated on the site survey and utility maps is approximate only. The Contractor shall scan the construction site with electromagnetic or sonic equipment, and mark the surface of the ground where existing underground utilities are discovered. The Contractor shall contact commercial utility companies (i.e. power, sanitary, water, etc.) to obtain commercial utility information. The Contractor shall obtain approved Sector Houston/Galveston digging permits prior to excavation. Request for digging permits shall be in accordance with current USCG Facilities Engineer's Office policies. All design work shall be in accordance with applicable codes and standards. For general design requirements refer to Section 01802 Construction Design Documents.

2.4.1.1 Site Planning

The locations for the temporary restroom and shower facilities will be determined by Designer of Record (DOR) in conjunction with the stations Facilities Engineer (FE) and Contracting Officer Representative (COR).

Access and circulation shall be provided around the perimeter of the temporary facilities for ease of entrance, passage and work flow of personnel, equipment, and material storage.

Submit a site plan showing the location of temporary restroom and shower facilities including layouts and details, interior space layouts, HVAC provisions, site adaptation drawings and details, utilities capacity requirements and connection details, walkways, access and circulation. Provide a coordinated site showing construction entrances, site trailers, construction fencing and gates, and trash dumpsters.

2.4.2 Site Clearing, Demolition, Earthwork, and Erosion & Sediment Control

Contractor shall utilize all applicable state and federal Best Management Practice (BMP) regulations in designing an approved Erosion & Sedimentation (E&S) Control plan. Plan shall include a functional Construction Entrance and inlet protection on all existing storm structures adjacent to the site. E&S control devices including functional silt fences shall be installed at all pertinent locations to preclude the carrying off site of debris, soils, and vegetation during storm events.

The Contractor is required to construct and maintain a temporary safety fence, including gates and warning signs, to protect the public from construction activities. Submit the proposed location of fences and gates to the COR/CI for approval.

Prior to site clearing, the Contractor shall obtain all permits required from the appropriate jurisdictional authorities. The Contractor shall submit and implement an erosion and sediment control plan, containing best management practices.

All deleterious materials are to be removed from the construction site. Demolish, remove, and dispose of all pertinent utilities, paving, ground cover, vegetation, and structures located within the areas of demolition.

2.4.3 Potable Water

The Contractor will be allowed to connect to the Coast Guard's potable water system. Pay for, install, and maintain the temporary connections in accordance with city, county and state codes. Remove all temporary connections before contract completion. Provide backflow preventers on connections to domestic water lines. Coordinate connection arrangements with the COR/CI.

The Contractor shall determine domestic for the facilities and shall verify the design of all components of the domestic water supply systems. The Contractor shall perform an independent hydrant flow tests to determine if adequate pressures and quantities are available for the facilities. The Contractor shall furnish a Hydrant Flow Test Report. The test shall include flow in GPM, static pressure, and residual pressure. Submit copies of the Hydrant Flow Test Report to the Contracting Officer.

Provide all materials, equipment, labor, testing, and miscellaneous related items to provide water service lines to the temporary facilities. Provide water distribution system materials, methods, and testing as specified. Disinfect new water piping and existing water piping affected by the Contractor's operations in accordance with AWWA C651.

2.4.4 Sanitary Sewer

The temporary facilities' sanitary sewage collection system shall connect to the nearest existing sanitary manhole. The USCG owns and maintains the sanitary sewer system located on the base. The systems flow to a pump station located on base, and then pumped to the municipal system. The existing sanitary sewer lines and lift stations shall be evaluated to determine their adequacy for collection and discharge to the municipal sanitary system.

Provide all materials, equipment, labor, testing, and miscellaneous related items to provide sanitary sewage lines and pumps necessary for distribution and services to the temporary facilities. The following materials are not allowed for sanitary sewer piping: clay pipe and fittings, concrete pipe and fittings, steel pipe, or asbestos-cement pipe. Ductile iron pipe shall conform to ASTM A746 with AWWA C110 or AWWA C153 fittings. PVC pipe shall conform to ASTM D3034 or F949 with pipe and fittings made from material that conforms to ASTM D1784. Upon completion of new facilities, remove the temporary connections and restore the disturbed areas.

2.4.5 Site Grading and Storm Drainage

Design grades with a minimum 2% slope to drain away from buildings and walkways. For open areas including parking areas, use sheet flow and concrete curbing to divert runoff into storm collection inlets and piped off to existing storm water structures.

2.4.6 Crushed Surfacing and Walkways

Materials and methods shall be in accordance with Louisiana Department of Transportation, Standard Specifications for Construction, 2008.

Provide crushed surfacing for pedestrian, vehicle and equipment access and circulation and around the temporary facilities, and parking. Proposed areas to receive crushed surfacing as well as proposed locations for walkways are to be shown on the submitted temporary facilities site drawings. It shall be the responsibility of the Design/Build Contractor to analyze the locations and propose appropriate changes if necessary. Any changes to the proposed locations shall be approved by the Contracting Officer.

All crushed surfacing design shall follow applicable design standards and shall be designed according to the intended use and the anticipated loads. Provide a minimum 6" of base course and a minimum 6" of top course. Design shall be based on a WB-50 vehicle. Crushed surfacing and walkways shall have a minimum 2% slope away from existing buildings and temporary facilities. The Contractor shall replace and replenish surfacing materials as needed to prevent potholes and storm water ponding.

2.4.7 Ramps and Stairs

Provide as required to for personnel and equipment access to the temporary facilities. Comply with UFAS.

2.4.8 Disposition of Temporary Facilities

Contractor furnished temporary facilities shall become the property of the Contractor and shall be removed from the site upon completion of the project.

2.7 ARCHITECTURAL DESIGN

2.7.1 Temporary Facilities Description

The temporary facilities dimensions are subject to review and approval by the Coast Guard. The temporary facilities shall be located as close as possible to the Multi-Purpose Station Building, the building it is serving. The temporary facilities shall be configured to optimize the use of the land area including exterior stairs and ramps.

Provide weather-tight temporary facilities with ceiling heights of 9 feet, nominal, minimum. Doors shall be 36 inches wide. Temporary facilities shall include floor and exterior wall insulation values of R15, and ceiling/roof insulation values of R24, minimum. Exterior doors shall be insulated. All interior partitions shall include sound attenuation insulation. If individually occupied bathroom units are used, they shall be lockable from the inside and have a "vacancy" and "in use sign" on the locking system

Provide temporary facilities of sufficient floor loading capacity to accommodate the various furnishings, equipment, and supplies indicated. Flooring shall be sheet vinyl throughout. Resilient wall base shall be provided throughout. Walls and ceilings shall be off-white in color. Provide 6-foot, minimum, fiberglass reinforced plastic panel wainscot in toilet and shower rooms. Provide the following accessories in each toilet room.

Mirrors: Provide minimum 30" high x 24" wide stainless steel framed glass mirrors above lavatory sinks.

Paper Towel Dispenser: 400 towel capacity

Trash Receptacle: 12 gallon waste receptacle.

Soap Dispensers: Lather type, 10 fluid oz. capacity, stainless steel.

Toilet Paper dispenser: Double roll.

2.10 FIRE PROTECTION AND DETECTION

2.10.1 Fire Detection and Alarm System

Provide each trailer with fire alarm protection appropriate to the occupancy. Connect the trailers to the main fire alarm control panel (Silent Knight) in the Command building – wireless transmitters may be used for this connection.

2.10.2 Fire Extinguisher Cabinets

Fire extinguishers shall be provided in accordance with NFPA 10 and NFPA 101. Extinguishers shall have a nominal capacity of 10 pounds and be located in recessed cabinets.

2.10.3 Fire Protection

No fire protection is required for the temporary facilities.

2.11 PLUMBING

2.11.1 General Description:

A new plumbing system shall be provided for the temporary trailers. Design and construction work shall conform to the applicable requirements of the International Plumbing Code (IPC).

Water shall be supplied by a potable water main system and shall drain by gravity to the sanitary sewer system. Plumbing fixtures shall be provided where indicated on the Architectural drawings and as noted. The compressed air system shall conform to applicable codes and standards.

2.11.2 Domestic Water Piping

Domestic water piping shall comply with the IPC. Solder shall be lead free. Provide water hammer arresters as required. All water piping shall be insulated per ASHRAE 90.1-2013.

2.11.3 Fixtures

- a) Toilets shall be manual flush.
- b) Water Cooler: No water cooler required in temporary facilities.
- c) Lavatories shall be wall-hung.
- d) Sinks: Provide 14-inch by 18-inch minimum size sink with insta-hot.
- e) Showers, Stationary: Provide pressure balancing mixing valve with adjustable stop screw to limit handle turn, integral service stops, shower head with arm and flange.
- f) Domestic Water Heater: Provide tankless, instantaneous electric hot water heaters sized to serve sinks, lavatories, and showers in each trailer.
- g) Hose Bibbs: No hose bibbs required in the temporary facilities.
- h) Emergency Eyewash: No portable eyewash units in the DC and MK shops.
- i) Floor or Mop Sink: No floor or mop sink required in the temporary facilities.
- j) Ice Maker and Refrigerator: No water connection for ice makers.

2.11.4 Waste and Vent

Provide a floor drain in each shower connected to the waste. Waste from temporary structure shall be hard connected to existing sanitary waste lines and shall be sloped at 0.25 inches per foot.

2.11.5 Rain leaders

No rain leaders are required for the temporary structure.

2.11.6 Compressed Air Systems

Piping shall be in accordance with ASTM A 53 or ASTM B88 Grade B. Compressed air drops shall be provided as needed for shop usage. Provide supports at valves, fittings, branch lines, outlets, changes in direction, equipment and accessories. Provide shut-off valves and adjustable pressure-reducing valves for each drop.

2.11.7 Natural Gas

Natural gas is not required at the temporary facilities.

2.11.8 Access Panels

Access panels shall be provided for all concealed plumbing that requires adjustment or maintenance.

2.11.9 Testing

Plumbing systems shall be cleaned and tested in accordance with ICC International Plumbing Code and NFPA 54.

2.11.10 Provide Operations and Maintenance Manuals for all plumbing systems.

2.11.11 Temporary Fuel Systems

Contractor shall comply with applicable permit requirements. See Section 01010.

2.12 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

2.12.1 General Description

A new HVAC system shall be provided for the temporary trailers.

Outside design conditions shall be based on the ASHRAE 99.6 percent heating values and 1 percent cooling values.

The project location is in a hurricane-prone region, as defined by the International Building Code (IBC), 2009 edition. All mechanical equipment and design shall therefore meet the requirements outlined in Section 1609, Wind Loads, of the IBC.

2.12.2 Heating and Air Conditioning

Provide heating and air conditioning to offset envelope losses, interior loads, and to meet an indoor air temperature of 70 degrees F dry bulb. The cooling load shall account for heat from equipment and people in the space. Provide a split system to cool the IT closet.

All heating and cooling piping, ductwork, equipment, and accessories shall have a vapor barrier jacket and shall be insulated consistent with the minimum requirements of ASHRAE 90.1-2007.

2.12.3 Exhaust Systems

Provide exhaust fans for toilet rooms, shower rooms, and shop areas. Provide a dedicated exhaust fan to serve the area where the portable welder is located. Exhaust air shall be ducted to the exterior of the building.

2.12.4 Ventilation Systems

Mechanical ventilation of filtered and tempered outside air shall be provided to each area with minimum ventilation rates in accordance with ASHRAE Standard 62.1.

2.12.5 Provide Operations and Maintenance Manuals for all HVAC systems.

2.13 ELECTRICAL

Electrical system design and construction shall comply with NFPA 70 and IEEE C2, as applicable. Install materials and equipment in compliance with applicable codes and manufacturers' printed instructions. In each code and standard referenced in section 1.1, consider advisory provisions to be mandatory as though the word "shall" had been substituted for "should" everywhere "should" appears.

All existing site buildings and facilities shall remain in service throughout construction except as specifically noted. This project is the first phase of a construction sequence that will remove all existing buildings from the site and provide new buildings. Accordingly, the design for all new buildings shall provide building services independent of the existing buildings where feasible, or include provisions to facilitate the eventual deactivation of all existing buildings. In general, the new buildings shall be

operational prior to deactivating the corresponding existing facility or suitable interim provisions shall be made to maintain uninterrupted base functionality.

2.13.1 Electrical Standards

See Division 01158 1.13 for listing of applicable standards.

2.13.2 Site Electrical:

2.13.2.1 Coordinate with the local utility company to provide temporary power to the trailer in accordance with the NEC. Power requirements for the trailers are dependent on the occupants of each set of trailers. Refer to the RFP floor plans for the temporary trailers and equipment layout. Coordinate with the telecommunication specifications to support any electrical requirements for the installation of equipment for the temporary trailers. Contractor shall pay all fees associated with new or modified utility service required by this work, including equipment charges, inspections, and demand for temporary trailers. See 01110 for related requirement. Provide electrical connections for exterior armory per vendor requirements.

2.13.3 Interior Electrical

2.13.3.1 Wiring methods:

2.13.3.1.1 Wiring shall be run concealed or above suspended ceilings in finished spaces and may be run exposed elsewhere. Provide a green color insulated equipment grounding conductor in all raceway with ungrounded conductors. Provide a separate neutral conductor with each branch circuit. All conductors shall be copper, manufactured within 12 months of date of delivery. Power and lighting conductors shall be 600 volt, type THWN/THHN or XHHW. Provide color-coding of ungrounded conductors as follows:

	208Y/120	480Y/277
Phase A –	black	brown
Phase B –	red	orange
Phase C –	blue	yellow

2.13.3.2 Interior Lighting

General Requirements: fluorescent type lamps shall provide interior illumination. Minimize the number of different lamp types utilized. Use the following IESNA design target maintained ambient illuminated levels for the spaces listed; use of supplemental task lighting is assumed. Use IESNA recommendations for other spaces;

Space	FC Level
Offices	30 FC
Shops	30 FC
Storage	30 FC
Bathrooms	30 FC

2.13.3.2.1 Fluorescent fixtures shall have electronic program start ballasts. Maximize use of fixtures with T-8 lamps. Industrial and strip fixtures shall have full solid steel end plates. Troffers shall be architectural lensed or have 0.156" minimum thickness acrylic prismatic lenses. Fixtures in office areas and other commonly occupied areas shall be architectural lensed type. Prismatic lens fixtures may be used in other finished areas not commonly occupied such as storage and janitors closets. All fixtures shall be recessed in drop ceilings.

2.13.3.2.2 Provide fluorescent lighting with electronic ballast and utilize T8 lamps. Lighting levels shall be minimum 50 foot-candles at the work desks utilizing task lighting. Provide additional lighting levels based upon IESNA standards as a minimum. Coordinate with the occupant of each set of trailers to determine their specific requirements.

END OF SECTION

SECTION 01802 CONSTRUCTION DESIGN DOCUMENTS

1 GENERAL

1.1 GENERAL DOCUMENTATION REQUIREMENTS

The Contractor shall provide design documents for constructing the Mayor Maintenance & Repair Project for Station Grand Isle to representatives of the Contracting Officer for review and validation of conformance to specified project criteria. The design documents shall represent a project design that complies with the RFP Drawings and design/build criteria specified in Section 01800, "Design/Build Criteria." Construction Design Documents shall be provided as specified herein.

1.2 DESIGN OWNERSHIP

All design documentation, including all supporting data, when submitted to the Government, shall become the property of the Government, except as specified otherwise in the contract.

1.3 QUALIFICATIONS OF DESIGNER

All of the work specified in this section, in the RFP Drawings, Section 01800, "Design/Build Criteria" and Section 01801, "Temporary Offices and Shop Facilities" shall be designed by and prepared under the direct supervision of the various licensed professionals as required by the project. Such licensed professionals include but is not limited to the project architects, engineers (Civil, Geotechnical, Environmental, Structural, Mechanical, Electrical), and interior, landscape, and telecommunications designers.

1.4 SUBMITTALS

Contractor-produced Construction Design Documents shall be submitted as specified and shall be accompanied by pertinent calculations and documentation as specified herein [2.10]. See **Appendix D – Industry Standards for Construction Design Documents**. Form DS(1) shall be utilized for transmittal of all contractor design submittals.

1.5 CONSTRUCTION DESIGN DRAWINGS

Submit Contractor-produced Construction Design Documents for all work required by this Request for Proposals (RFP). Construction Design Documents shall be in sufficient detail to show compliance with the RFP/Contract requirements.

Utilization of the Government's RFP drawings as part of the Contractor produced Construction Design Documents constitutes acceptance of the design responsibility by the Contractor.

1.5.1 Drawing and Computer Aided Drafting and Design Standards

1.5.1.1 Construction Design Drawings shall meet the applicable drawing standards contained in **Appendix A - Criteria for Computer Generated Drawings**. Electronic files ("dwg" and "pdf") shall meet the requirements of **Appendix B - Criteria for Electronic Deliverables**. Copies of those documents will be provided to the Contractor. Construction Design Drawings shall be considered to include any and all drawings prepared for use to construct the project. Design drawings such as pre-engineered metal building systems, fire protection systems, special construction, etc. shall all comply with the above referenced standards (including the use of the USCG's title block).

1.5.1.2 USCG Civil Engineering Unit Miami uses AutoCAD 2017 software to develop 2D design and construction drawings. Contractor supplied drawings shall be save in AutoCAD 2013 file format. If Building Information Modeling (BIM) software is used to produce design or construction drawings, interim progress submittals must include editable 2D DWG AutoCAD 2017 electronic files for site plans and floor plans. These site and floor plans may be used by CEU Miami for developing other plans for furnishings and equipment. At all submittals, drawings, specifications, calculations and data shall be supplied in Adobe "pdf" format.

STA Grand Isle, LA

- 1.5.1.3 In the title block of each drawing, indicate the type (35%, 65%, Final, or Corrected Final) and the date of the design submittal. Edit the attributes in the 'ISSUE' fields for "MARK", "DATE" and "DESCRIPTION". These same fields shall be used to identify revisions to drawings after the "Corrected Final Design Submittal".
- 1.5.1.4 All As-built drawing files shall be 2D DWG files editable by AutoCAD 2017. Each As-built CAD drawing shall be a separate "dwg" file using the CEU Miami title block; multiple sheets may not be combined into one file.
- 1.5.1.5 A CD (compact disk) containing electronic files of the RFP Drawings, Appendix D – Industry Standards for Construction Design Documents, Appendix A – Criteria for Computer Generated Drawings, Appendix B - Criteria for Electronic Deliverables, RFP Specifications, Reference Drawings, Subsurface Data and other data as listed in Section 01900 will be provided to the Contractor for use in preparing the Contractor-produced Construction Design Documents.

1.5.2 Facilities Design and Construction Center Drawing Numbers

The Contractor-produced Construction Design Drawings shall be numbered in accordance with CEU Miami's Adept File Naming Guide, which will be provided to the Contractor prior to the Pre-design Meeting.

1.5.3 Seal on Documents

All Final Contractor-produced Construction Design Drawings and calculations shall be signed, dated, and shall bear the seal of a registered Architect and/or Engineer. The seal shall be the seal of the Designer of Record for that drawing. The Designers of Record shall also be responsible for validating design compliance of any and all design drawings prepared for construction of the project. This includes pre-engineered metal building systems, fire protection systems, special construction, etc.

1.5.4 Record Construction Design Drawings

Coordinate Record Drawing requirements with Section 01803 Record Documents and Drawings. The Contractor's Designer(s) of Record shall provide as-built CAD drawings. The modified Record Drawing CAD files shall be forwarded, along with the marked-up as-built drawings to the Contracting Officer at the completion of the contract. Record Drawing CAD files shall have all XREFs "bound" (inserted), so that there is only one electronic file required per drawing sheet.

1.6 CONSTRUCTION DESIGN TECHNICAL SPECIFICATIONS

Contractor-produced Construction Design Technical Specifications may be incorporated into the Construction Drawings, in lieu of producing a separate bound specification manual. Specifications included on the Construction Drawings shall identify materials, and methods or standards of installation and execution.

1.6.1 Specifications Furnished with this RFP

Even though a separate bound specification is not required, the requirements of Section 01800, "Design/Build Criteria", establish a minimum level of material/product quality and execution quality expected by the Government. Where product manufacturers and brand names are indicated in the RFP documents, manufacturers offering products that do not substantially differ from those specified and which comply with the specified requirements may be provided.

1.6.2 Submittal Reduction Procedures

Construction product and equipment submittals required by the Contractor's Construction Design Documents, such as manufacturer's product data, may be waived for this project if the Contractor provides proprietary materials, methods, or systems as specified below.

1.6.3 Contractor Specified Proprietary Materials or Methods

Contractor Construction Design Documents may list manufacturer's names and model numbers for products. Each product description shall include manufacturer, product name, model number, options, and alterations to the standard manufacturer's product.

1.7 STATE AND LOCAL GOVERNMENT CONSULTATION, REVIEW AND INSPECTION

The Contractor's Designer is required to coordinate its efforts with appropriate state and local officials and designated Coast Guard officials. Designated Coast Guard officials will include the , as well as CEU Miami's Commanding Officer, or his authorized representative. The Contractor's Designer is an independent contractor and is not an agent of the Government. Accordingly, during consultations, the Contractor's Designer must inform state and local officials of its status and cannot bind the Coast Guard to any course of action. The Contractor's Designer shall, in preparing the design for the facility, consult with appropriate state and local governmental officials from the station's locale.

Upon a request by state or local officials, and on approval by the Contracting Officer, submit the design in a timely manner to such officials for review and comment. Submittal of the design for state and/or local code and zoning review for permitting purposes however, is at the Coast Guard's direction and does not constitute recognition of, or an obligation to, comply with state or local administrative procedural requirements including but not limited to obtaining building permits. Accordingly, the Contractor's Designer will not, without the Contracting Officer's approval, appear at formal local or state public meetings or hearings or make application for building permits or zoning variances. The Contractor will, however, notify the Contracting Officer of any such meetings or hearings where the proposed project is to be considered and may be requested to attend such meetings or hearings with the Contracting Officer or other Government officials.

All necessary permit requirements including anticipated approval timeframes shall be provided at the 35% Design submittal (see 2.2.1 below).

1.8 DESIGN SCHEDULE & POST AWARD / PRE-DESIGN MEETING

1.8.1 Design Schedule

See Section 01320 [01321] for schedule requirements. Unless otherwise directed during or prior to the Pre-design Kick-off Meeting, submit a Design Schedule no later than 30 days after award that covers the activities that will occur within the first 90 days of the Contract period.

1.8.2 Fast Tracking

1.8.2 The Contractor is not prohibited from "fast tracking" (e.g. Site work and Civil Work Phase, Geotechnical Work Phase, Foundation Work Phase, Structural Work Phase, Building Enclosure Work Phase, Remaining Work Phase). If the Contractor elects to fast track the design and construction, it shall be reflected in the Design Schedule.

1.8.3 Post Award/Pre-design Meeting

Within 30 calendar days of Notice To Proceed, the Contractor and his design team, shall meet with the Contracting Officer's Representative at Station Grand Isle to discuss the design requirements of this RFP.

1.8.4 Customer Design Presentation

At the post-award/pre-design meeting, and prior to the 65% design submittal, the Contractor and his design team shall meet at the project site and conduct a customer design presentation to familiarize the customer with the design for the project. This presentation is not intended to be an interactive design charrette, although some critical design modifications may be identified through the course of the meeting which may be included later by contract modification. The design presentation shall be a refinement of the design presented in the oral presentation and shall include design modifications and betterments accepted in the contract award. The presentation shall include the building floor plans developed to approximately 35% design level, site plan and key site features, and a basic narrative description of the overall project/building systems, Environmental permitting, SWM, structural, mechanical, electrical, telecommunications and security systems for the project. The Contractor shall include an overall discussion of outfitting and finishes as applicable at this stage of design. The Contractor shall prepare 12 sets of printed handouts showing key presentation highlights for the meeting. The actual time and location of the presentation will be coordinated with the COR.

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1.9 DEVIATIONS FROM RFP/CONTRACT REQUIREMENTS

Deviations from RFP/Contract requirements shall not appear on Contractor-produced Construction Design Document submittals unless the deviation has been previously submitted to, reviewed by, and approved by the Contracting Officer. Deviation requests shall clearly present the proposed change and how the change differs from the RFP/Contract, why the change needs to be made or why the change is in the Government's best interest. These differences shall be easily identifiable to the Government during the review process. Any differences in cost (adds or deducts) shall be included in the request.

The Government's review of design submittals does not constitute approval or acceptance of any deviations from the RFP/Contract, unless such deviations have been specifically pointed out in writing by the Contractor and specifically approved in writing by the Contracting Officer.

1.10 VARIATIONS

A variation is considered to occur when there is a change to a contractor's submitted design and/or construction method that does not affect compliance with the terms of the contract. Variations require endorsement from the A/E of record prior to implementation. Variations do not require Contracting Officer's approval, but notification of the planned change is required at least five working days in advance.

1.11 SITE VISIT INSPECTIONS

Provide site visits during construction. Representatives with the Contractor's Designers of Record (DOR) shall periodically visit the site during construction at the completion of major structural work, as well as at the completion of electrical, plumbing and mechanical rough-ins. They shall also be present during the final inspection. Trip reports shall be prepared and signed by the DOR, and submitted to the Government within five working days of the visit. Trip reports shall note the overall quality of construction, percent complete, and whether or not the construction is in conformance with the DOR's design documents.

In addition to the final inspection, a minimum of three site inspections for each DOR (architect, civil, structural, mechanical, electrical, etc.) shall be provided over the period of construction. Inspections shall be included as tasks in the Contractor's schedule. The Contractor shall provide seven days notice to the Contracting Officers Representative prior to the inspections.

2 DESIGN EXECUTION

2.1 DESIGN SUBMITTAL PROCESS

2.1.1 Fast Track/Traditional Design Option

Contractor has the option to either fast track construction or start construction after the design is completed. In either case the contractor is proceeding at his own risk until the Government has completed its review and accepted the particular submitted design documents as meeting Contract requirements. Any work completed, for which design acceptance has not been provided, will not be approved for payment and if found to be non-compliant with Contract requirements, will be removed and replaced at no further cost to the Government. Rework of non-conforming work will not serve as the basis for a time extension.

If the contractor chooses to fast track the project, the work shall be designed and constructed in the following phases:

PHASE I: Site work, Geotechnical, Foundation, and Civil Work Phase

PHASE II: Structural, Building Enclosure and Remaining Work Phase

The design submittal for each of the above listed construction phases shall be **reviewed and validated by the Coast Guard for conformance to the RFP/Contract requirements** prior to commencement of procurement, fabrication or construction for that phase. No work is authorized to proceed prior to validation by the Coast Guard. For any work selected for "fast tracking", final design shall be completed and certified as compliant with the RFP/Contract requirements by the Designer of Record, and approved by the Contractor, before construction work can start. Government validation of "fast track" work does not relieve the Contractor for the additional responsibility and liability associated with coordinating the "fast track" work area with the overall project. "Fast tracking" of the foundation work shall include final design

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of the column/brace placement in relation to office, berthing, and operational spaces and window locations. The Contractor is allowed to install temporary facilities while the design of the permanent facilities is progressing.

Provide design submittal packages for all work covered by each design submittal phase. Copies of each design submittal sets of drawings shall include a Title Sheet and Index of Drawings sheet unique to that design submittal phase. Copies of each design submittal specification shall be bound and include a table of contents unique to that design submittal phase. The Cover Sheets for the drawings and specifications shall indicate the design phase submitted.

The design package (or packages for fast tracking) shall consist of the following submittals:

- a. 35% Construction Design Submittal
- b. 65% Construction Design Submittal
- c. Final Construction Design Documents Submittal
- d. Corrected Final Construction Design Documents Submittal

2.1.2 Design Reviews by the Government

Submit copies of all submittals required by this specification section to:

Contracting Officer

CEU MIAMI

15608 S.W. 117th Avenue

Miami Florida 33177

In addition to CEU MIAMI, distribute one (1) set each of the required submittals to other USCG units/persons. Other recipients are:

Facility Engineer

USCG Station Grand Isle

100 Semper Street, Grand Isle, LA 70368

Grand Isle, LA 70368

2.1.2.1 Government Review and Contractor Responses

As part of the Government's reviews, there will be "critical" and "non-critical" comments identified. The Contractor shall provide responses to "critical" review comments within 7 calendar days of receipt of the Government's comments. Should the Contractor have "do not concur (DC)" responses or desire "further discussion (FD)" to "non-critical" comments, the Contractor shall provide those responses within the same 7 calendar days. The Government's desire is that consensus shall be reached between the Government and the Contractor on all "critical", DC and FD comments before proceeding with the design related to those comments/responses. Should the Contractor proceed with the design prior to reaching consensus, it is doing so at its own risk. Responses to other "non-critical" review comments may be returned with the next design submittal.

2.1.2.2 Duration of Reviews

The Contractor shall allow the number of consecutive calendar days specified below, as the time required by the Government to review each design submittal. The time for review begins upon receipt of the submittal at CEU Miami and ends when submittal leaves CEU Miami.

- | | |
|---|------------------|
| a. 35% Construction Design Submittals: | 14 calendar days |
| b. 65% Construction Design Submittal: | 21 calendar days |
| c. Final Construction Design Submittal: | 21 calendar days |
| d. Corrected Final Design Submittal: | 14 calendar days |

2.1.2.3 Quantities of Construction Design Documents

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- a. For the 35% Construction Design Submittal: Submit two copies of Drawings and all other documents as described in paragraph 2.1.5, 2.2.2, & 2.7.2.2.
- b. For the 65% Construction Design Submittals: Submit [ten] copies of half-size (11"x17") design drawings and specifications, and [four] copies of calculations, manufacturer's product catalog data, and supporting data. Provide one CD with drawings, specifications, calculations and data files.
- c. Final Construction Design Submittal: Submit [ten] copies of half-size (11"x17") design drawings and specifications. Submit [four] copies any new (or revisions to 65%) calculations, manufacturer's product catalog data, and other supporting data. Return the comments from the 65% submittal with Contractor responses to each Government comment. Provide one CD with electronic drawings, specifications, calculations and data files.
- d. Corrected Final Construction Design Submittal: Submit one full-size set of sealed and signed original drawings, and [four] copies of half-size drawings reproduced from the full-size originals. Submit any revisions to Final calculations and other supporting data. Return the comments from the Final submittal with Contractor responses to each Government comment. Provide one CD with electronic drawings, specifications, calculations and data files.
- e. Fully Assembled Design Submittal (Fast Tracking Only): Submit [ten] copies combined, assembled, and bound of the original full-size of all previously reviewed design drawings (and specifications if applicable), and [four] of half-size copies of the same reproduced from the full-size originals. Provide two compact disks with electronic drawings, specifications, calculations and data files.

2.1.3 Revisions to Corrected Final Construction Design Drawings

Any Variations to Corrected Final Design documents must be brought to the attention of the Contracting Officer (as defined above). Approved Deviations from the Corrected Final Design drawings must be submitted for approval by the Contracting Officer (as defined above). Deviations are considered revisions and must be annotated on the drawing, logged in the revision block and must clearly indicate the specific scope and location of the revision. Drawing revisions shall be accomplished either by revised drawings or revision sketches, and incorporated into as-built drawings.

- 2.1.3.1.1 Contractor shall submit one 8" LEED Certification Plaque (glass finished type) with wall mounting hardware to the LEED certified building and one 4" glass coaster with the project name and location on the front mounted on an acrylic stand to FDCC. The LEED Certification Plaque shall have level and year of certification etched on front.

2.1.4 Environmental Permitting Submittal Efforts

See Section 01800 Paragraph 1.18 and Section [01330].

2.2 SITEWORK AND CIVIL WORK DESIGN

2.2.1 Site work and Civil Work Design Drawings

Construction Design Drawings shall be in sufficient detail to show compliance with the RFP/Contract requirements. Contractor shall use the Appendix E as guidance.

The 35% submittal shall include dimensioned site, utilities, SWM concept, and if required the revised topographic and utilities survey. In addition, a summary of required permits, along with an estimated schedule for their approvals shall be included. The purpose of the submittal is to provide an early review to ensure the direction of project design conforms to the RFP/Contract requirements.

2.2.2 Civil Construction Design Calculation Submittal

Provide design calculations at the 65% Construction Design submittal. Ensure that LEED and sustainable design documentation is provided NLT the 35% submittal.

2.2.3 Civil Construction Design Specifications and Documents

Construction Design Specifications and Documents shall be in sufficient detail to show compliance with the RFP/Contract requirements.

2.3 GEOTECHNICAL WORK CONSTRUCTION DESIGN

2.3.1 Contractor's Geotechnical Report

Submit a written Geotechnical Report based upon subsurface investigation data and all field and laboratory testing [accomplished by the Contractor's Geotechnical Consultant] [provided by the Government with this RFP and all additional field and laboratory testing accomplished at the discretion of the Contractor's Geotechnical Engineer]. A registered Professional Engineer regularly engaged in geotechnical engineering shall seal and sign the Geotechnical Report.

2.3.2 Geotechnical Site Data Drawings

Provide geotechnical site data drawings at the [65%] Construction Design Submittal.

2.4 STRUCTURAL DESIGN

2.4.1 General:

2.4.1.1 General notes on the Structural Construction Design Drawings shall show, in addition to the requirements of the IBC, the following:

- a. Material strengths, such as f'_c for concrete, F_y for steel, or F_b for timber.
- b. Codes and criteria used
- c. All design criteria loads

2.4.1.2 On the first sheet of the Structural Construction Design Drawings, provide a statement (certification) that the design includes all wind load effects required by ASCE 7.

2.4.2 Structural Construction Design Specifications and Documents:

Documents shall be in sufficient detail to show compliance with the RFP/Contract requirements.

2.4.3 Structural Calculations: Provide at [Final] Construction Design Submittal.

2.5 ARCHITECTURAL AND LANDSCAPE DESIGN

2.5.1 General

On the first sheet of the first submittal of Architectural Construction Design Drawings, provide building code information (i.e. Building area, Use Group, Occupancies, Construction Type, Egress requirements, fire ratings, etc.). In addition, at the 65% and Final Architectural Design Submittals submit complete Facility Interior Design (FID) submittals and complete Furniture, Fixtures and Equipment (FFE) submittals as identified in Section 01800.

The submittals shall include the following:

a. 65% Submittal

- Interior Finish Schedule
- (2) Color Boards for review and concurrence
- Fixtures, Furniture & Equipment (FFE) list
- Coded Interior Furniture Plans
- Inventory list of existing FFE to be relocated for concurrence

b. Final Submittal

- Interior Finish Schedule
- Interior Finish legend
- (1) Color Board for review and concurrence
- Fixtures, Furniture & Equipment (FFE) list
- Coded Interior Furniture Plans

2.5.2 Inventory list of existing FFE to be relocated for concurrence Architectural and Landscape Construction Design Documents:

Construction Design Documents shall be in sufficient detail to show compliance with the RFP/Contract requirements.

Finish, door and other similar schedules shall be included in the drawings as opposed to locating them in specifications and manuals.

Equipment Maintenance and Service Access: With each level of required design submittal indicate equipment manufacturer's recommended clear service area around each piece of fixed equipment by dashed lines or hatched areas for actual equipment provided.

2.5.3 Architectural Rendering:

As part of the 65% Architectural Construction Design Submittal, submit two perspective sketches of the building and its surroundings for review for development of a final rendering. Should neither of the sketches be acceptable, additional sketches shall be prepared at no additional cost to the Government.

After acceptance of one of the sketches, develop the sketch into a professionally prepared two dimensional (2D) architectural rendered perspective in color, nominally 16" x 28" in size. Submit completed fully rendered color perspective using the sketch submitted at the first submittal with Government comments incorporated as part of the Final Construction Design Submittal.

After review of the rendered perspective, provide the following within 30 calendar days:

- a. Two full-size renderings, matted with a nominal 24" x 36" frame, covered with regular clear glass, and mounted in a black metal frame, complete with hanging hardware; include the Project Name, Location and Activity, and the Contractor/A/E firm's name centered in the lower matte area. Rendering shall be "dry mounted" to a stiff backer board to prevent wrinkling, and insure that the finish product remains flat.
- b. Five 8" x 14" unframed color photographs; and
- c. One electronic digital (jpeg) image (at 300 dpi minimum) of the rendering saved on a compact disc.

The three framed final renderings shall be mailed to separate USCG offices. Obtain mailing addresses from the Contracting Officer's Technical Representative. The CD and five 8"x14" photos shall be mailed to the Contracting Officer.

2.6 FIRE PROTECTION DESIGN

2.6.1 Fire Detection and Alarm System Construction Design documents shall be in sufficient detail to show compliance with the RFP/Contract requirements. Fire Detection and Alarm system design drawings may be provided as a separate discipline or included with the electrical plans. Design work and shop drawings shall be prepared by a licensed engineer or a NICET (National Institute for Certification in Engineering Technologies) Level III or Level IV technician. See paragraphs regarding sealing drawings for Designer of Record responsibilities.

2.6.1.1 Floor Plans

Provide floor plan(s) showing locations of fire alarm system devices. Fire alarm plans shall be separate from plans for lighting, power and telecommunications plans.

2.6.1.2 Riser Diagrams

Provide system riser diagram on design drawings as required to convey zoning and other required system characteristics for system installation. Provide riser diagram with shop drawings showing complete system installation.

2.7 MECHANICAL DESIGN

2.7.1 General

Construction Design Documents shall be in sufficient detail to show compliance with the RFP/Contract requirements.

2.7.2 Mechanical Construction Design Specifications and Documents:

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2.7.2.1 Heating, Ventilating and Air Conditioning Plans:

- a. Show a functional layout of mechanical features such as equipment location, ductwork, and all associated accessories.
- b. Provide complete schedules for all equipment.
- c. Location of room thermostats, ventilation air control, and timed setback override switches shall be shown on the drawings.
- d. HVAC Testing Adjusting and Balancing: The Contractor's designer shall indicate on the drawings (in addition to the duct class, seal class, and leakage class) the leakage test pressure to be used to test ductwork, or duct sections. Refer to SMACNA HVACADLTM, Appendix B, "Sample Leakage Analysis" for guidance in determining leakage test pressures. TAB's testing personnel shall be from an independent, certified NEBB or AABC authorized, testing firm and test report shall be in the form of one of these organization's samples.

2.7.2.2 HVAC Calculations:

Provide HVAC Load Analysis, pressure calculations and life-cycle cost analysis at the 35% Construction Design Submittal prior to any acceptance of any specific systems selection. Ensure that LEED, sustainability, and EPACT 2005 requirements are incorporated. The load analysis shall be done utilizing one of the commercially available HVAC programs, such as those developed by Carrier, Trane, Elite, etc. The calculations shall include the flow and friction loss calculations for the various medium (duct and pipe losses). Ensure that all corrected data is provided at the final acceptance submittal. Life Cycle Cost Analysis (LCCA) shall be in report form and include an executive summary, quantitative comparison of the systems analyzed and a conclusion justifying the selection of the system based on the submitted data. Provide updated HVAC calculations at the 65% and Final, if changed from 65%, Construction Design Submittals.

2.7.2.3 Plumbing Plans:

Showing fixture, equipment location, piping runs and all associated accessories; include the following:

- a. Legend and symbols for each item indicated on the drawings.
- b. Location of fixtures, associated equipment, and piping.
- c. Show locations of all access panels required to service, replace or operate concealed plumbing fixtures (isolation valves, water hammer arrestors, shower control valves, etc.)
- d. Provide one-line isometric riser diagrams of major piping systems.

2.7.2.4 Plumbing Calculations

Provide plumbing calculations at 65% and Final (if changed) Construction Design Submittals. Provide Life-Cycle Cost Analysis (LCCA) NLT the 65% Construction Design Submittal prior to any acceptance of any specific systems selection. Ensure that LEED, sustainability, EISA 2007 and EPACT 2005 requirements are incorporated. Life Cycle Cost Analysis (LCCA) shall be in report form and include an executive summary, quantitative comparison of the systems analyzed and a conclusion justifying the selection of the system based on the submitted data.

2.8 ELECTRICAL DESIGN**2.8.1 General**

Construction Design Documents shall be in sufficient detail to show compliance with the RFP/Contract requirements.

2.8.2 Electrical Construction Design Documents**2.8.2.1 Electrical Drawings**

- a. Legend and Symbols

Provide legend and symbols for each item indicated on the drawings, and a listing of all abbreviations used on drawings with their meanings.

b. Floor Plans

Provide separate floor plan(s) for lighting and power. Note, telecommunications plans and details shall be maintained on separate plans.

c. Riser Diagrams

Power One-Line/Riser Diagrams: Provide a power and/or one-line diagram showing the service feeder, distribution transformer, main distribution panel(MDP), loads served from the MDP, including sub panels and step-down transformers with associated wire and conduit quantities and sizes shown on the diagram.

d. Schedules

Provide the following schedules on the drawings.

- 1) Panel board Schedules
- 2) Lighting Fixture Schedule

e. Site Plan

Provide a site plan drawing showing existing and new conditions including locations of electrical lines, manholes, hand holes, light poles, transformers and other electrical equipment. Electrical and telecommunications site work may be shown on a common site plan drawing.

2.8.3 Electrical Design Calculations

Submit design calculations for the following requirements:

- a. Short Circuit Current and Arc Flash Hazard Analysis: Provide short circuit current calculations for the electrical distribution system based on the one line/riser diagram. Provide arc flash hazard calculations for equipment based on short circuit current analysis.
- b. Lighting: Interior: provide interior lighting calculations keyed to the lighting floor plan and the lighting fixture schedule. Exterior: Provide site plan of area illuminated with calculated exterior illumination levels shown numerically on the plan.
- c. Load Analysis for Normal Power: Indicate connected load and demand load using appropriate diversity and demand factors. Provide load calculations for panel boards and calculations for associated feeders (conduit and conductor sizes and quantities).
- d. Generator Sizing: Provide calculations based on connected emergency power load and starting KVA load.

2.9 WHOLE BUILDING COMMISSIONING

2.9.1 Use and possession of the project shall not occur until the final commissioning report has been approved and accepted. Provide documented confirmation that building systems function in compliance with criteria set forth in the Project Documents to satisfy the Government's operational needs. Submit a written commissioning plan with the 65% construction design submittal which includes but is not limited to:

1. The systems to be commissioned
2. Definition of the scope of the commissioning process
3. Define the commissioning roles and lines of communications for each member of the project team
4. Identify the commissioning schedule
5. Include requirements for:
 - a. Submittals

- b. Commissioning Meetings
- c. Construction checklist development and execution
- d. Functional test procedure format and development
- e. Startup process
- f. Measuring instrument calibration requirements
- g. Test readiness confirmation
- h. Functional testing process - including management, execution and documentation
- i. Balancing report review and reading validation
- j. Issues log process
- k. Deferred functional testing

6. The plan shall include an equipment-specific functional testing scope for each piece of equipment or type of assembly or system. Include test form format requirements, test rigor, any sampling allowed, trending requirements, etc. Functional testing requirements should also list the modes to be tested, under what conditions and give the acceptance criteria. Identify what testing is and is not part of the formal commissioning process. Delineate between commissioning functional testing and contractor quality control and other testing specified elsewhere in the specifications (e.g., duct and pipe pressure testing, generator load bank testing, etc.).

7. When a central building automation system (BAS) is part of the project, utilize trend logs of temperature, flow, current, status, pressure, set points etc. to confirm proper operation over time of all systems possible. Period of trend log shall be a minimum of one week. This augments the manual functional testing.

2.9.2 Upon completion of the commissioning process prepare and submit a commissioning report that includes:

- 1. An evaluation of the operating condition of the systems at the time of functional test completion
- 2. Deficiencies that were discovered and the measures taken to correct them
- 3. Uncorrected operational deficiencies
- 4. Functional test procedures and results
- 5. Reports that document all commissioning field activities as they progress
- 6. A description and estimated schedule of required deferred functional testing

2.10 BASIS OF DESIGN NARRATIVE SUBMITTAL REQUIREMENTS

Contractor's Designer shall include the Basis of Design Narrative which shall provide analyses and conclusions of alternatives considered, proposed systems, materials, and justification for architecture and engineered systems. Requirements for the Basis of Design Narratives are provided in Appendix D – Basis of Design Narrative.

3 EXECUTION

Not used.

End of Section

**SECTION 01803
RECORD DOCUMENTS AND DRAWINGS**

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

Maintain at the site, for the Government, one as-built record copy of full-size prints of the drawings. Maintain the drawings in clean, dry, legible condition and in good order. Do not use record drawings for construction purposes.

1.2 SUBMITTALS

Submit in accordance with this section and section 01330, "Submittal Procedures."

1.2.1 SD-11 CLOSEOUT SUBMITTALS

Project Record Drawings - The record documents submitted during the design and construction process shall be submitted as electronic (digital) and hardcopies. Digital files shall be provided on CD-R disk, MS-DOS readable ISO 9660 format. Disks shall be labeled with project title and number, date and files identified (drawings, specifications, etc). Files shall not be compressed. AutoCad drawings shall have all xrefs bound to the drawing, and all extraneous model spare data shall be removed. All files shall be scanned and free of virus. To meet the Coast Guard electronic file management software program, "Adept", all files shall follow a naming convention that will precede the software extensions such as AutoCad (.dwg), Adobe (.pdf) or Word (.doc) and picture files (.jpg or .tif), etc. The file name shall have a specific order of alphanumeric characters (identifiers) that shall be adhered to for project identification and type of document. See Appendix B Criteria for Electronic Deliverables. Contractor shall adhere to the requirements of Appendix B Criteria for Electronic Deliverables.

1.3 EXAMINATION BY THE CONTRACTING OFFICER

Record drawings shall be available at all times for examination by the Contracting Officer's Representative. Requests for partial payments will be approved only if the record drawings are kept current.

Deliver the record drawings to the Contracting Officer upon completion of the work and prior to final inspection.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 PROJECT RECORD DRAWINGS

Label each drawing "PROJECT RECORD" in neat, large, printed red letters. Record information daily as work progresses. Do not conceal work until information is recorded. Legibly and accurately mark each drawing in red to record actual construction. Information to be recorded includes but is not limited to:

- a. Depths of various elements of foundation in relation to finish first floor.
- b. Horizontal and vertical locations of underground utilities and appurtenances. Establish with dimensions to permanent surface improvements.

- c. Location of utilities and appurtenances concealed in the construction, referenced to visible and accessible features of the structure.
- d. Dimensions of equipment and equipment foundations.
- e. The topography and gradients of drainage installed during or affected by construction.
- f. Changes resulting from modification and field changes.
- g. Changes resulting from instructions issued by the Contracting Officer.
- h. Details not on original contract drawings.

3.2 FIELD ADJUSTMENTS AND CONTRACT MODIFICATIONS

The following changes require a field changes or a contract modification:

- a. Location and dimensions of changes within the structure.
- b. Changes in detail or dimensions resulting from approved fabrication drawings and equipment erection and installation details.
- c. Changes to duct and pipe sizes and routing.

3.3 FIRE PROTECTION RECORD DRAWINGS

Utilizing the requirements of the above paragraph "PROJECT RECORD DRAWINGS", the Contractor shall provide as-built drawings developed from the working drawings of each fire suppression/extinguishing system for record purposes. Submit D size drawings with the FDCC AutoCAD title block and label each drawing as "PROJECT RECORD DRAWINGS".

END OF SECTION

**SECTION 01900
LIST OF RFP DRAWINGS, EXHIBITS AND ATTACHMENTS**

1.1 SUMMARY

This section lists the RFP Drawings and Supplemental Drawings, Exhibits and Attachments for the project and supplements Section J "List of Attachments."

1.2 RFP DRAWINGS

1.2.1 There are no RFP Drawings. All drawings provided are of previous projects and work done to the station. The drawings provided are for reference only. All information and dimensions on these drawings must be field verified by design / builder for accuracy.

1.3 SUPPLEMENTAL DRAWINGS, EXHIBITS AND ATTACHMENTS

These supplemental drawings, exhibits and attachments are not part of the contract but are provided to the Contractor for information only.

1.3.1 Reference Drawings

The following reference drawings are intended only to show the original construction. Drawings are the property of the Government and shall not be used for any purpose other than that intended by the contract. The Government does not guarantee that these drawings reflect present conditions and the Contractor is responsible for verifying actual conditions. The drawings are provided in electronic format on compact disk. Full size drawings may be inspected during regular working hours at the office of the Contracting Officer.

ATTACHMENT #1 : REFERENCE DRAWINGS FOR MULTI-PURPOSE STATION BUILDING	
DRAWING NO.	TITLE
1652	A-3 / BARRACKS BUILDING – GROUND FLOOR
1652	A-4 / BARRACKS BUILDING - SECOND FLOOR PLAN
1652	A-5 / REFLECTED CEILING PLAN
1652	HVAC -1 / ROOF & GROUND FLOOR HVAC PLAN
1652	HVAC -2 / SECOND FLOOR HVAC PLAN
1652	P -1 / GROUND FLOOR PLUMBING PLAN
1652	P-2 / SECOND FLOOR PLUMBING PLAN
1652	S-2 / STRUCTURAL SCHEDULE AND DETAILS
1652	S-3 / STRUCTURAL SECOND FLOOR SLAB
1652	S-4 / STRUCTURAL ROOF SLAB
1653	ME-1 / MECHANICAL SITE UTILITIES
1653	ME-2 / MECHANICAL SITE UTILITIES

1833	SHEET 1 /DOCKSIDE SEWAGE RECEIVING SYSTEM FOR VESSELS
7082	SHEET 1 / PARTIAL SITE PLAN
7082	SHEET 2 / PARTIAL GROUND FLOOR PLAN
7082	SHEET 4 / PARTIAL SECOND FLOOR PALN
7082	SHHET 6 / EXTERIOR ELEVATION
7082	SHEET 11 / INTERIOR PLANS AND DETAILS
7082	SHEET 12 / PARTIAL PLUMBING PLAN
7082	SHEET 15 / PARTIAL H/VAC PLAN
7082	SHEET 16 / PARTIAL H/VAC PLAN
7082	SHEET 17 / PARTIAL H/VAC PLAN
7082	SHEET 26 / FIRE ALARM SYSTEM FLOOR PLANS
M1191-D	A-05 / 2 ND ARCHITECTURAL FLOOR PLAN
M1178-D	E-09 / 2 ND FLOOR ELECTRICAL PLAN
M1669-D	M-1 / MECHANICAL EXISTING UTILITIES
M1669-D	M-2 / MECHANICAL DEMOLITION WORK
M1669-D	M-3 / MECHANICAL NEW PIPING WORK
M0459-D	M02 / MECHANICAL ROOF PLAN
M0459-D	M03 / MECHANICAL 2 ND FLOOR PLAN
M0459-D	M04 / SCHEDULES AN D DETAILS
ATTACHMENT #2: REFERENCE DRAWINGS UPH BUILDING	
08-L4014	R-1 / MAIN FLOOR PLAN
08-L4014	R-4 / EXTERIOR ELEVATIONS
08-L4014	R-5 / BUILDING SECTIONS
08-L4014	R-6 / SECTIONS & DETAILS
08-L4014	R-7 / SECTIONS & DETAILS
DRAWING NO.	TITLE.

08-L4014	R-8 / STAIR SECTIONS AND DETAILS
08-L4014	R-14 / MAIN FLOOR FRAMING PLAN
08-L4014	R-19 / BUILDING SECTIONS
08-L4014	R-20 / STAIR FRAMING AND MISCELLANEOUS SECTIONS
M-1632D	G-1 / TITLE SHEET
M-1632D	G-2 / SHEET INDEX & SITE MAP
M-1632D	D-2 / DEMO. PARTIAL FLOOR PLAN
M-1632D	D-3 / DEMO. EXISTING SECTION
M-1632D	A-2 / ARCHITECTURAL PARTIAL FLOOR PLAN
M-1632D	A-3 / CLG. PLAN ELEVATIONS
M-1632D	A-5 / ARCHITECTURAL BUILDING SECTION
M-1632D	A-6 / ARCH. STAIR SECTIONS
M-1632D	A-9 / ARCH.DETAILS
ATTACHMENT #3: REFERENCE DRAWINGS FOR WPB BUILDING	
DRAWING NO.	TITLE.
M0657-D	A-3 / ARCHITECTURAL FLOOR PLAN
M0657-D	A-4 / ARCHITECTURAL REFLECTED CEILING PLAN
M0657-D	A-10 / ARCHITECTURAL ROOF PLAN
M0657-D	A-12 / ARCHITECTURAL ROOF DETAILS
M0657-D	A-13 / ARCHITECTURAL ELEVATIONS
M0657-D	A-14 / ARCHITECTURAL ELEVATIONS
M0657-D	M-3 / MECHANICAL FLOOR PLAN, SECTIONS
M0657-D	E-4 / ELECTRICAL POWER / SIGNAL PLAN
M0657-D	E-5 / ELECTRICAL LIGHTING PLAN
M0657-D	E-5 / ELECTRICAL LIGHTING PLAN

M0657-D	E-6 / ROOF PLANS – RISER DIAGRAM
ATTACHMENT #4: REFERENCE DRAWINGS AND PICTURES FOR OPEN BOAT STORAGE	
DRAWING NO.	TITLE
ASSET PLAN	ASSET MANAGERS SITE PLAN
PICTURE #1	OVERAL PICTURE OF BOAT STRUCTURE
PICTURE #2	ROOF DETAIL PICTURE
PICTURE #3	FLOOR CONNECTION DETAIL PICTURE
PICTURE #4	FLOOR CONNECTION DETAIL PICTURE
PICTURE #5	FLOOR CONNECTION DETAIL PICTURE

--End of Section--

ATTACHMENTS

ATTACHMENT 1

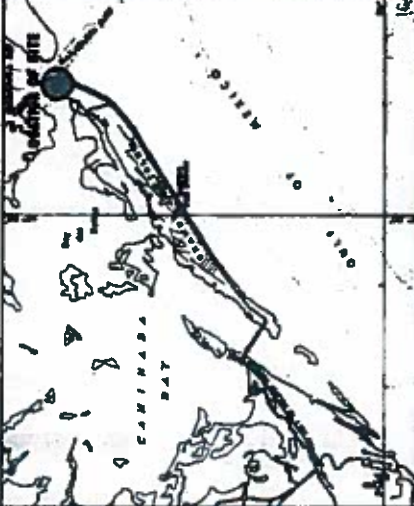
REFERENCE DOCUMENTS FOR
STATION BUILDING

① MULTI-PURPOSE BUILDING

UNITED STATES COAST GUARD EIGHTH DISTRICT



GRAND ISLE STATION GRAND ISLE, LOUISIANA BARRACKS FACILITIES

INDEX			INDEX			VICINITY MAP		
SHEET NO.	DRAWING	SHEET TITLE	SHEET NO.	DRAWING	SHEET TITLE			
1	A-1	SITE PLAN	14	A-14	DETAILS	1652	16	
2	A-2	PAVING AND CURBS	15	C-1	STRUCTURAL - FIRST FLOOR & FOUNDATION			
3	A-3	GROUND FLOOR PLAN	16	C-2	STRUCTURAL - SCHEDULES AND DETAILS			
4	A-4	SECOND FLOOR PLAN	17	C-3	STRUCTURAL - SECOND FLOOR PLAN			
5	A-5	GROUND AND GROUND FLOOR REFLECTED CEILING PLAN	18	C-4	STRUCTURAL - ROOF PLAN			
6	A-6	SCHEDULES	19	C-5	STRUCTURAL - STAIR DETAILS			
7	A-7	ELEVATIONS AND DETAILS	20	R-1	GROUND FLOOR PLUMBING PLAN & DETAILS			
8	A-8	SECTIONS AND DETAILS	21	R-2	SECOND FLOOR PLUMBING PLAN & DETAILS			
9	A-9	HEAD 228 PLAN AND DETAILS, & STORAGE UNITS	22	HWAC-1	ROOF AND GROUND FLOOR HVAC PLAN & DETAILS			
10	A-10	GALLERY PLAN AND EQUIPMENT	23	HWAC-2	SECOND FLOOR HVAC PLAN, SECTION & PIPING DIAGRAM			
11	A-11	DETAILS	24	E-1	GROUND FLOOR ELECTRICAL PLAN			
12	A-12	WINDOW WALL, ELEVATIONS & DETAILS	25	E-2	SECOND FLOOR ELECTRICAL PLAN & SCHEDULES			
13	A-13	ENTRANCE PLANS, ELEVATIONS, & DETAILS	26	E-2A	GENERAL OFFICE AREA (ADDITIONAL PANEL)			
		(REVISED)						

Oct 1 1962

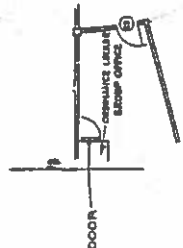
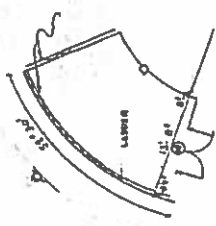
Handwritten signature

30-11-02

Handwritten: R. Hill

AS BUILT DRAWING
NO. 1111111111
11-11-11

SEABAG LOCKER 10' x 11'



PAINTED CONCRETE

SWETROCK

SWETROCK



MS

MS

MS

MS

CR. 6'-4"

CR. 6'-4"

CR. 6'-4"

PAINTED CONCRETE

15 0011 000100
-000-000-000-000-000-000

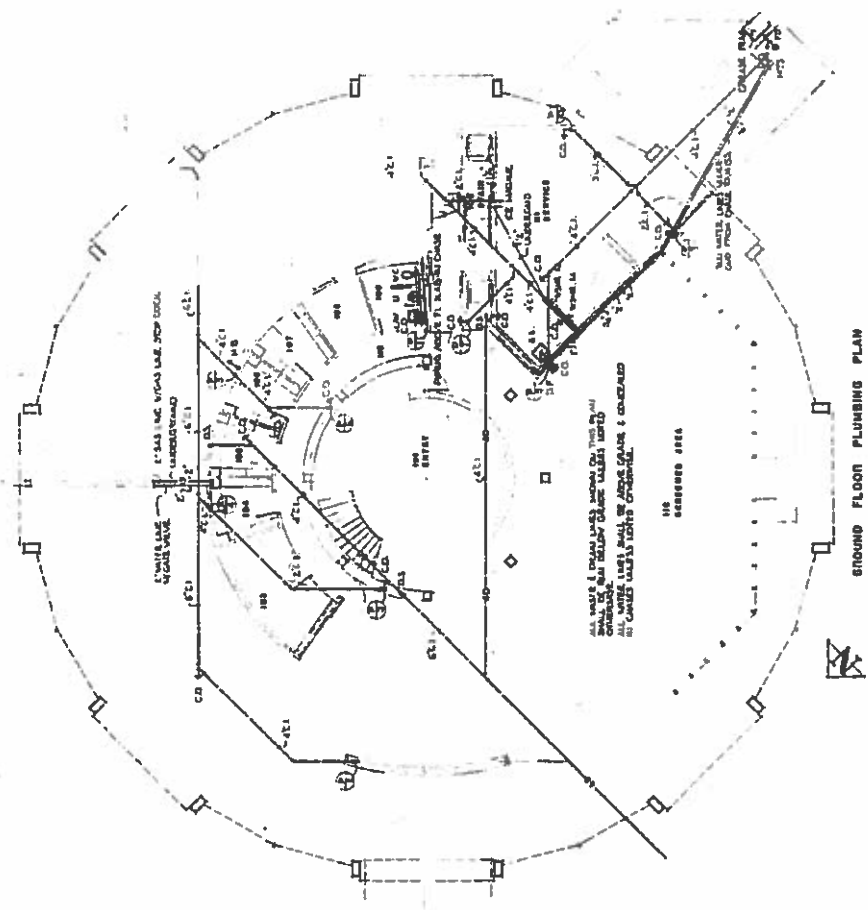
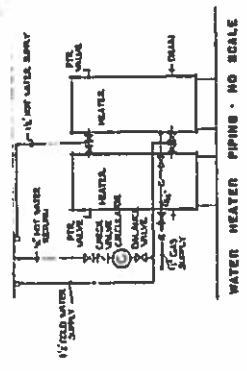
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N. 11.0"

20

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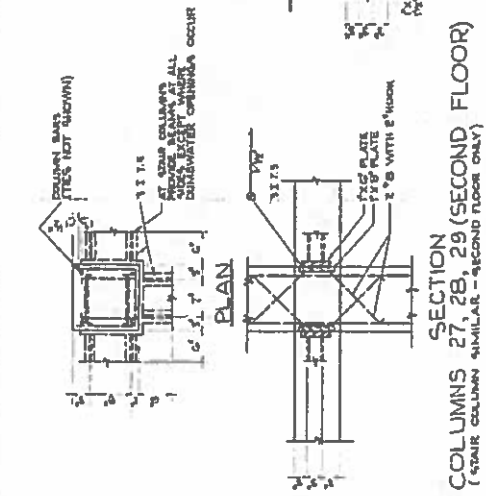
PLUMBING SYMBOLS	DESCRIPTION
WASTE PIPING ABOVE GRADE	
WASTE PIPING BELOW GRADE	
STORM DRAIN	
GAS PIPING	
COLD WATER PIPING	
HOT WATER PIPING	
HOT WATER RETURN	
WATER CLOSURE	
WATER SHUT OFF	
CLEAN OUT	
WATER VALVE	
WATER CLOSING VALVE	
WATER VALVE	
WATER VALVE	



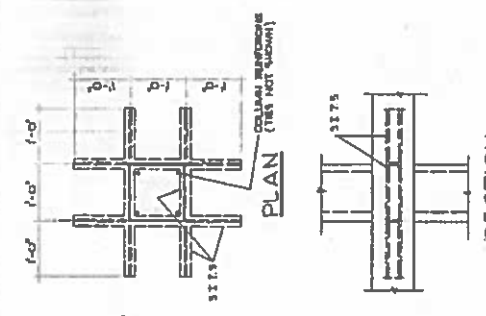
DESIGNED BY E. L. HARRIS	CIVIL ENGINEERING	NEW ORLEANS, LA.
CHECKED BY E. L. HARRIS	GRAND ISLE, LOUISIANA GRAND ISLE STATION BARRACKS FACILITIES	
DATE JULY 1952	PROJECT NO. 1652	
GROUND FLOOR PLUMBING PLAN & DETAILS		



P-1



SECTION
EXTERIOR COLUMNS
(COLS. 1 THRU 16)
SHEAR CONNECTIONS
SCALE 1"=1'-0"

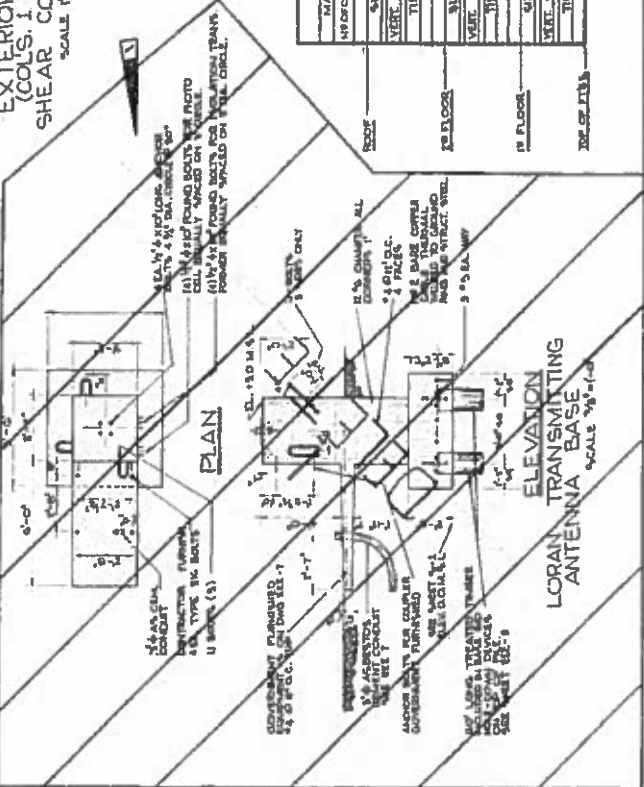


TYPICAL COLUMN DETAIL
SEE SCHEDULE FOR SIZES & REIN.



COLUMN SCHEDULE

MARK	1 THRU 16	17 THRU 23	24 THRU 31	32 THRU 39
VERT. STEEL	12 X 14	12 X 14	12 X 14	12 X 14
TIES	4 X 10	4 X 10	4 X 10	4 X 10
VERT. STEEL	12 X 14	12 X 14	12 X 14	12 X 14
TIES	4 X 10	4 X 10	4 X 10	4 X 10
VERT. STEEL	12 X 14	12 X 14	12 X 14	12 X 14
TIES	4 X 10	4 X 10	4 X 10	4 X 10
VERT. STEEL	12 X 14	12 X 14	12 X 14	12 X 14
TIES	4 X 10	4 X 10	4 X 10	4 X 10



CIVIL ENGINEERING
GRAND ISLE, LOUISIANA
GRAND ISLE STATION
BARRACKS FACILITIES
STRUCTURAL SCHEDULES & DETAILS

DATE: 10/1/52
BY: S. J. 1652



[illegible][illegible]

CIVIL ENGINEERING

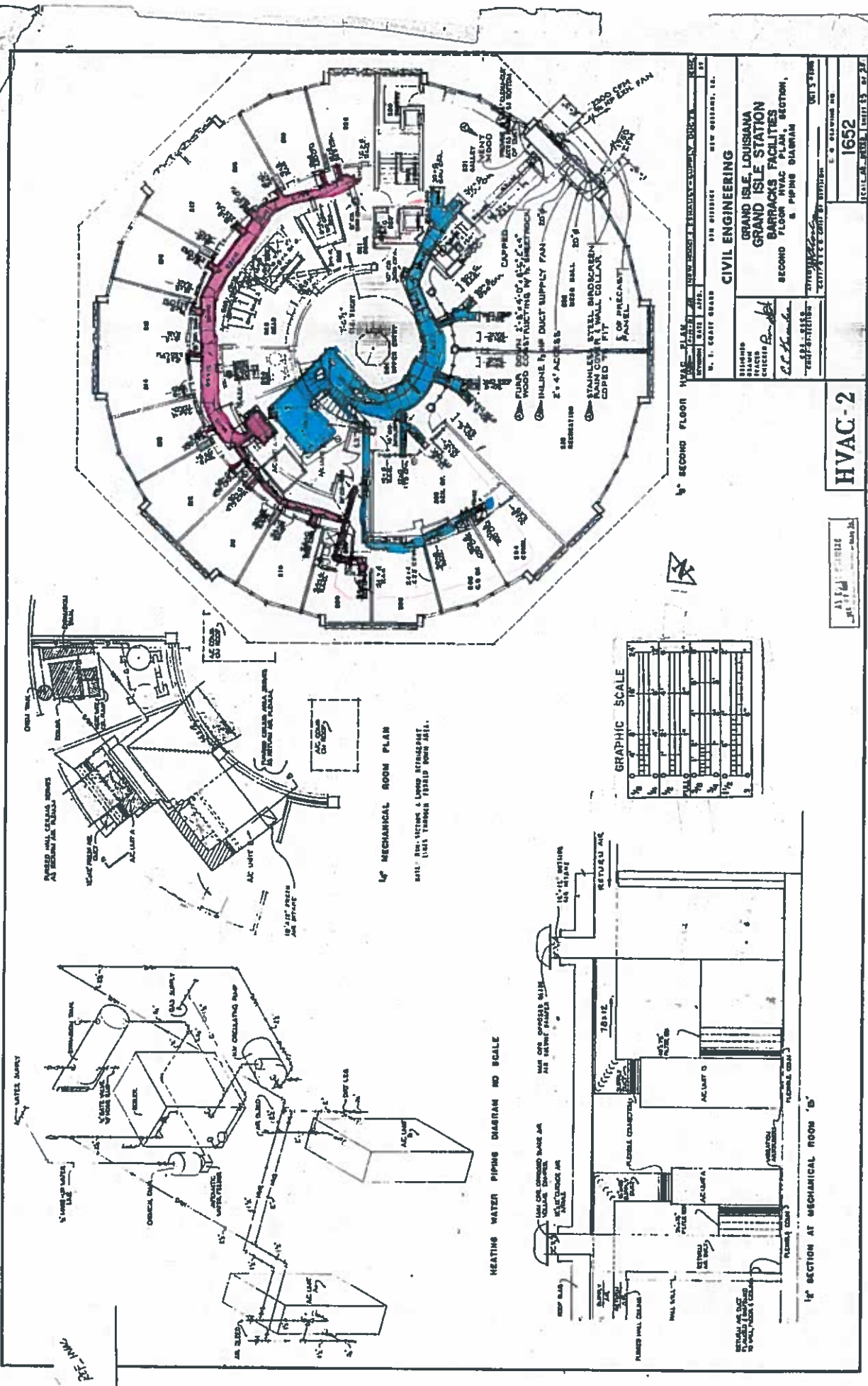
GRAND ISLE, LOUISIANA
GRAND ISLE STATION
BARRACKS FACILITIES
ROOF-8 GROUND FLOOR HVAC PL
A DETAILS

012310
0378
0444
010011

8518-163

001 01154730 0 73

HVAC-1



HVAC-2

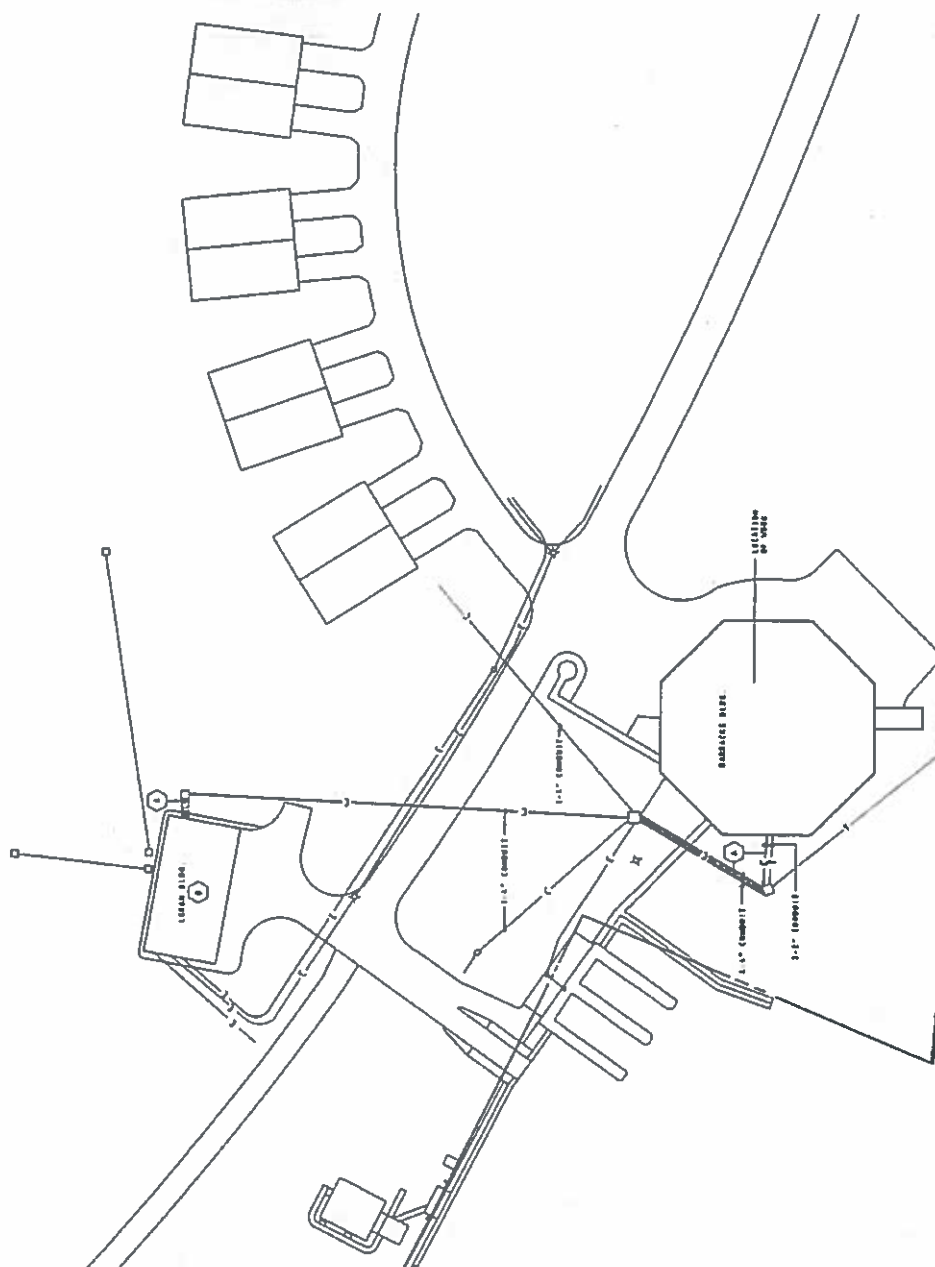
1652

1965

① MULTI-PURPOSE BUILDING

LIST OF DRAWINGS

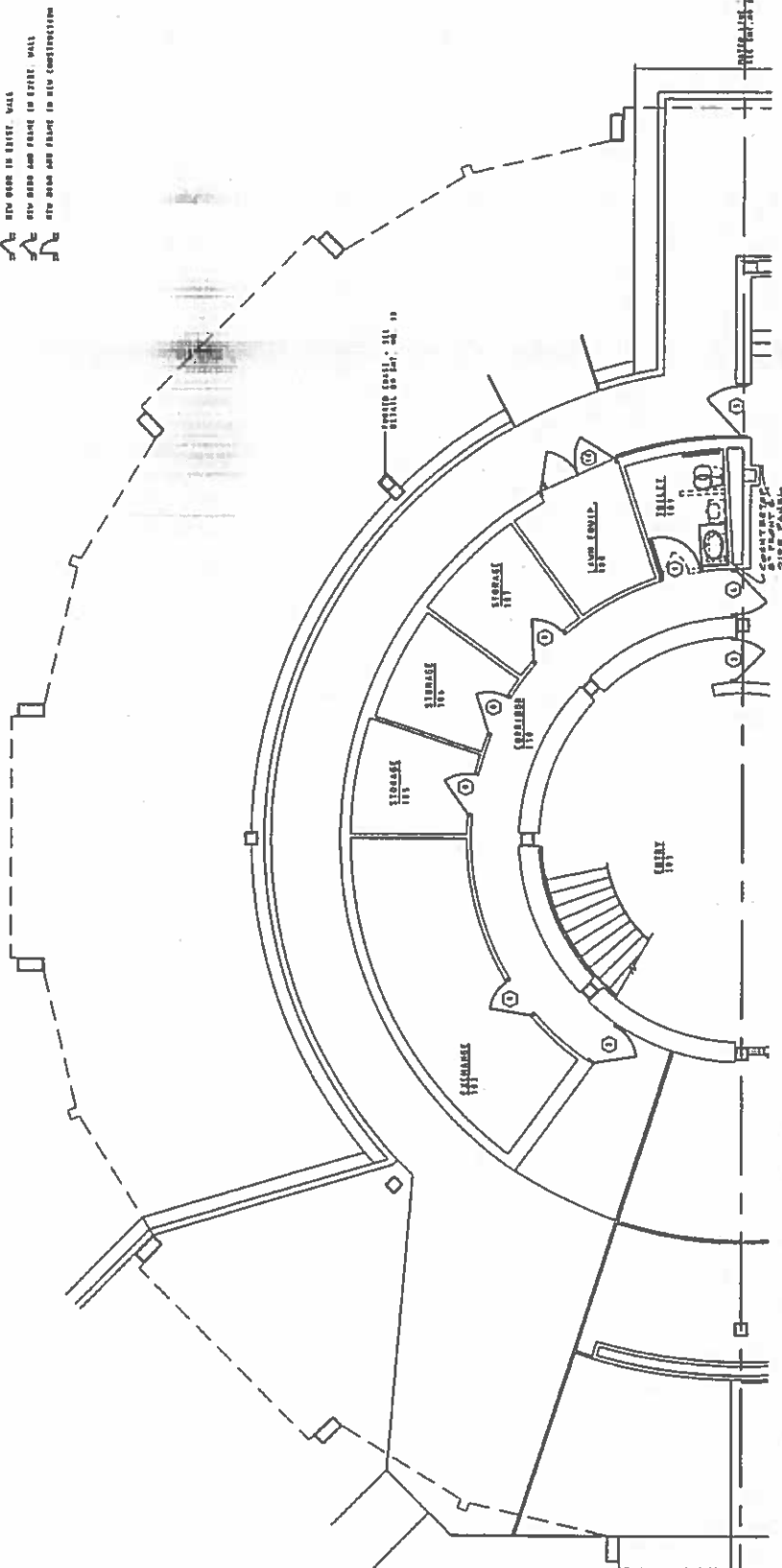
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NOTES

- [illegible]

[illegible]

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GRAPHIC SCALES

DATE	TIME	DATE	TIME	DATE	TIME
SHORE MAINTENANCE DETACHMENT					
MID - LIFE REHABILITATION					
W. S. COAST CIGARS					
BOARD ISLE, LOUISIANA					
PARTIAL GROUND FLOOR PLAN					
DRAWN BY: [Signature]					
DATE: 3/15/77					
CRAFT: 1000-1000-1000-1000					
7082					
DATE: 3/15/77					



2017 2142

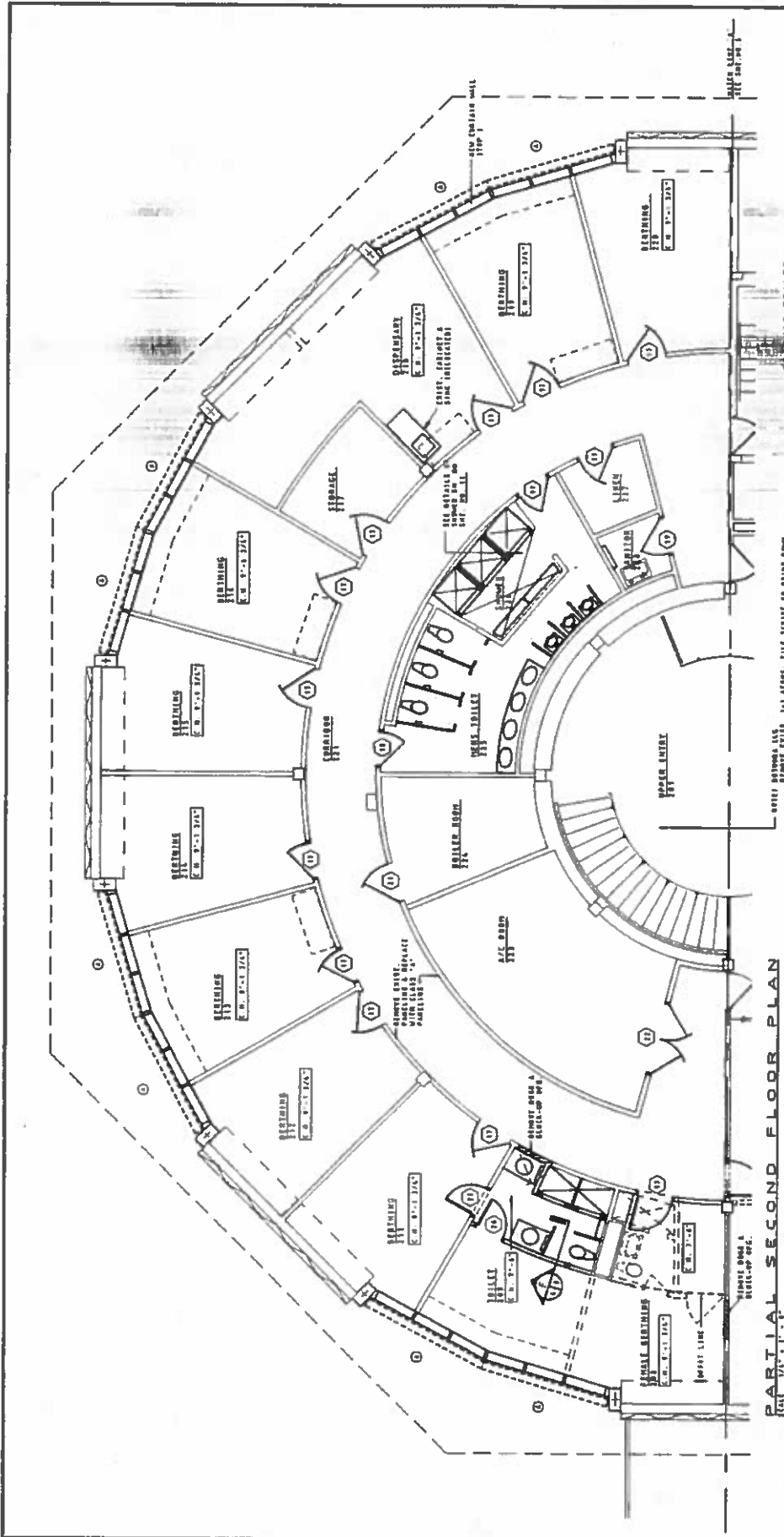
PARTIAL GROUND FLOOR PLAN

[illegible]

ROOM FINISH SCHEDULE

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[illegible]



ROOM FINISH SCHEDULE

Room No.	Room Name	Finish	Notes
201	ENTRANCE	GLASS & ALUMINUM	
202	HALL	GLASS & ALUMINUM	
203	TOILET	GLASS & ALUMINUM	
204	STORAGE	GLASS & ALUMINUM	
205	OFFICE	GLASS & ALUMINUM	
206	RESTROOM	GLASS & ALUMINUM	
207	TOILET	GLASS & ALUMINUM	
208	STORAGE	GLASS & ALUMINUM	
209	OFFICE	GLASS & ALUMINUM	
210	RESTROOM	GLASS & ALUMINUM	
211	TOILET	GLASS & ALUMINUM	
212	STORAGE	GLASS & ALUMINUM	
213	OFFICE	GLASS & ALUMINUM	
214	RESTROOM	GLASS & ALUMINUM	
215	TOILET	GLASS & ALUMINUM	
216	STORAGE	GLASS & ALUMINUM	
217	OFFICE	GLASS & ALUMINUM	
218	RESTROOM	GLASS & ALUMINUM	
219	TOILET	GLASS & ALUMINUM	
220	STORAGE	GLASS & ALUMINUM	

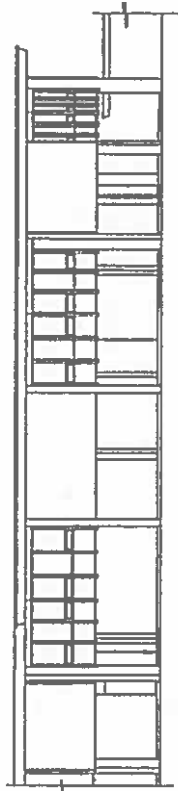
SHORE MAINTENANCE DETACHMENT
HID - LIFE RENOVATION

STATION: LOUISIANA
 GRADE: 15.0
 DATE: 10/10/10

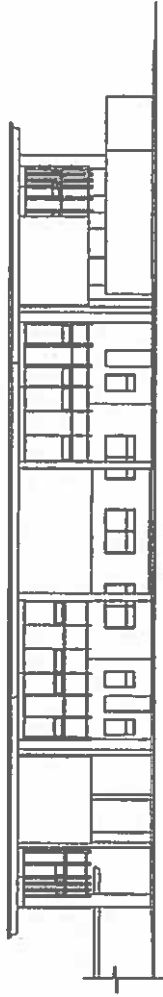
PARTIAL SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

7082



PARTIAL NORTH ELEVATION
SCALE: 1/8" = 1' - 0"



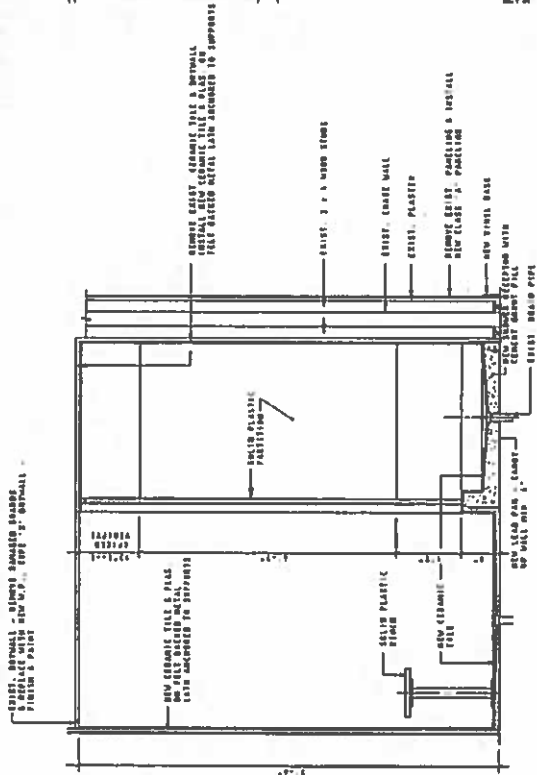
PARTIAL SOUTH ELEVATION
SCALE: 1/8" = 1' - 0"

PROJECT NO.	DATE	BY	NAME
U. S. COAST GUARD			
SHORE MAINTENANCE DETACHMENT			
MID - LIFE RENOVATION			
STATION	U. S. COAST GUARD	STATION	
NO. 10	GRAND ISLE,	STATION	
REMARKS	EXTERIOR ELEVATIONS		
DATE	BY	BY	BY
7/15/87	8/11/87	8/11/87	8/11/87
7082			
PAGE 1111			

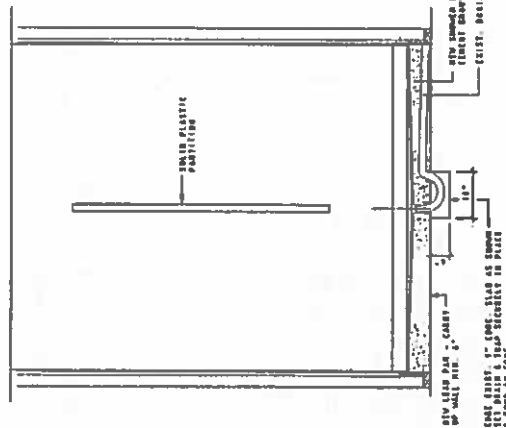
5hC

ELEVATION ①
114.1' - 114.2'

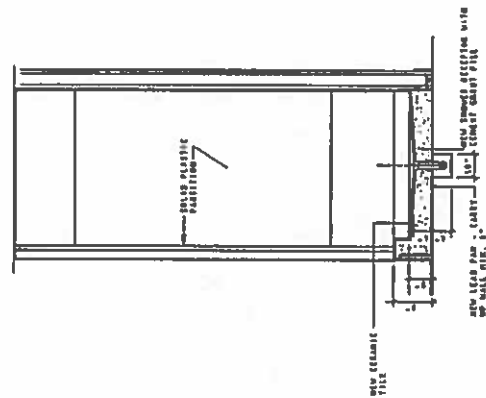
ELEVATION ②
11411 - 11412 - 11413 - 11414 -



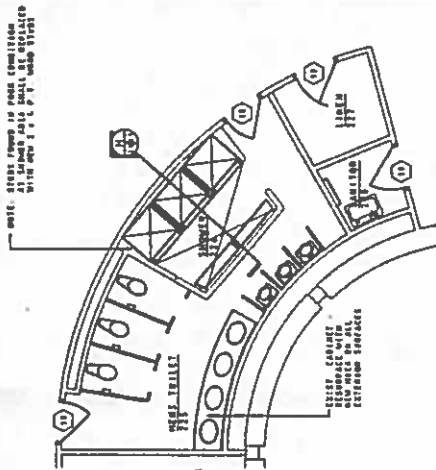
SECTION 101135
 101135 - 101135



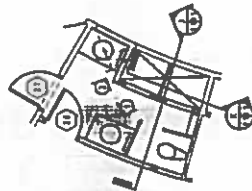
SECTION 11.01



SECTION _____

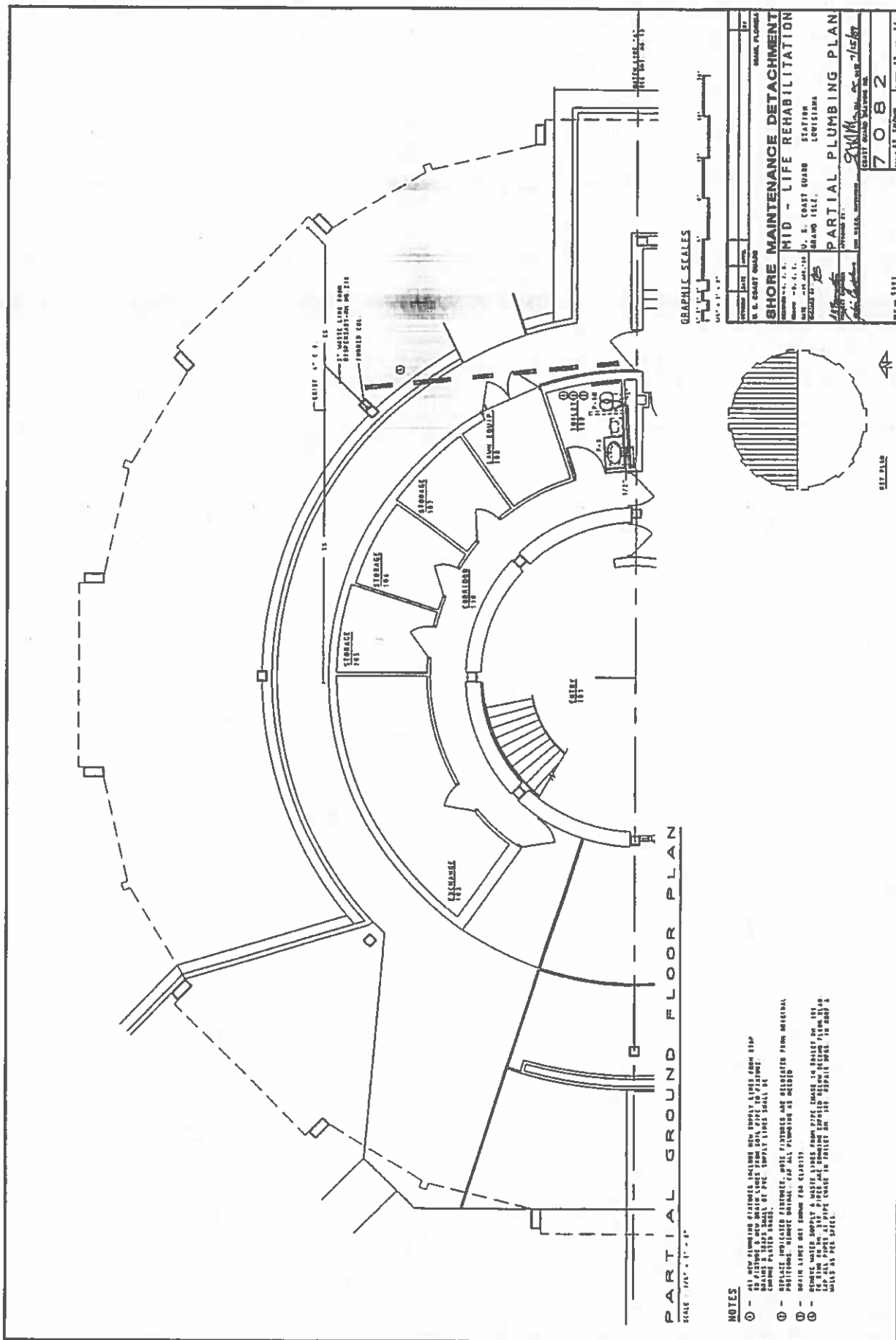


PLAN - SECOND FLOOR MEN'S TOILET



PLAN - SECOND FLOOR TOILET NO. 209
SCALE: 1/4" = 1'-0"

14	BANK PLANS	
13	SHORE MAINTENANCE DETACHMENT	
12	MID - LIFE REHABILITATION	
11	IF 5 EAST BOARD	STATION
10	LEACH ISL.	LOUISIANA
9	INTERIOR PLANS AND DETAILS	
8	CHINA PT.	CHINA
7	CHINA PT.	CHINA
6	CHINA PT.	CHINA
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4	CHINA PT.	CHINA
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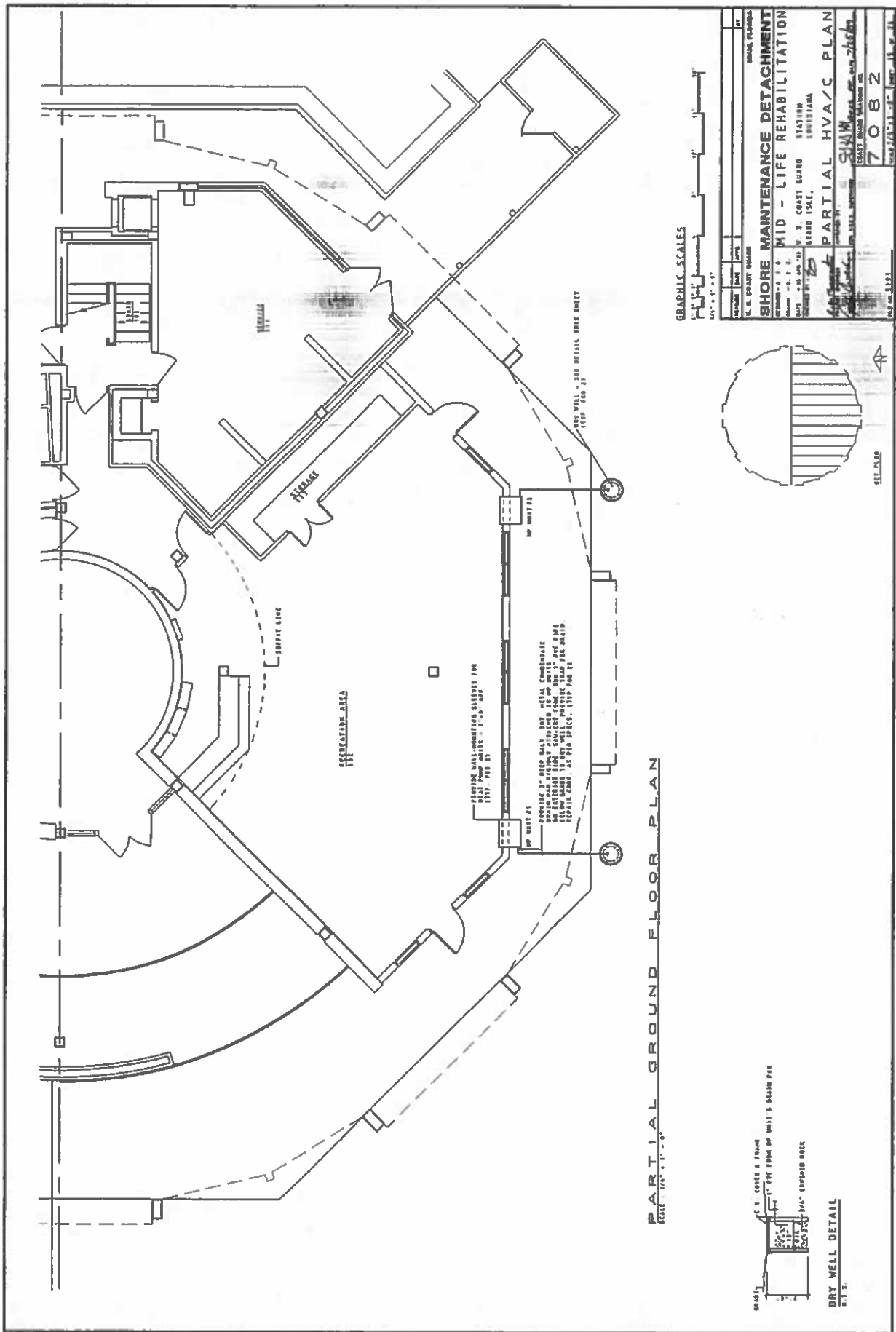


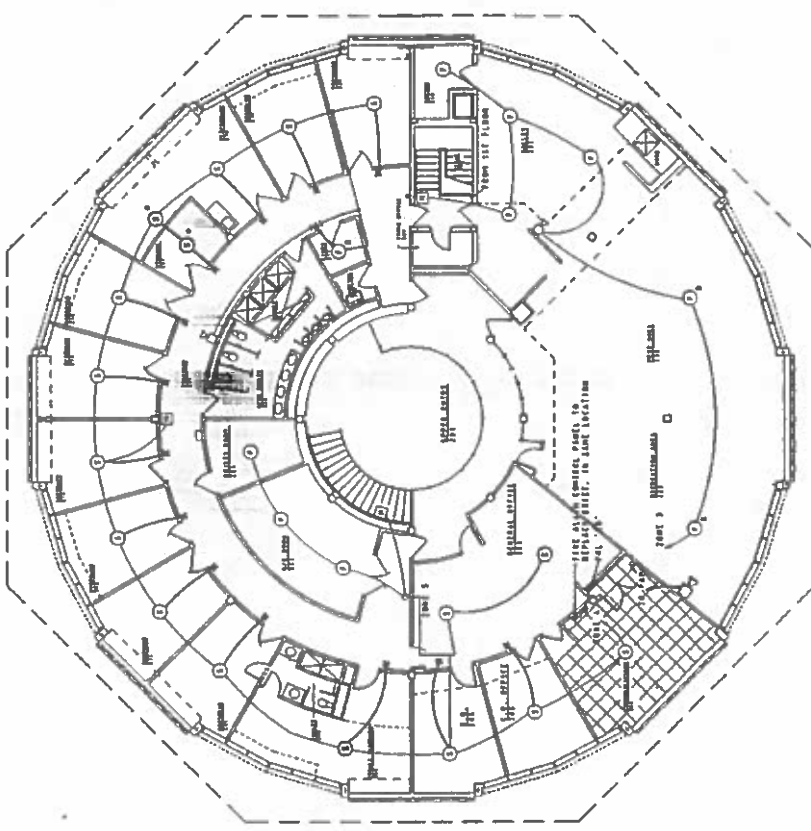
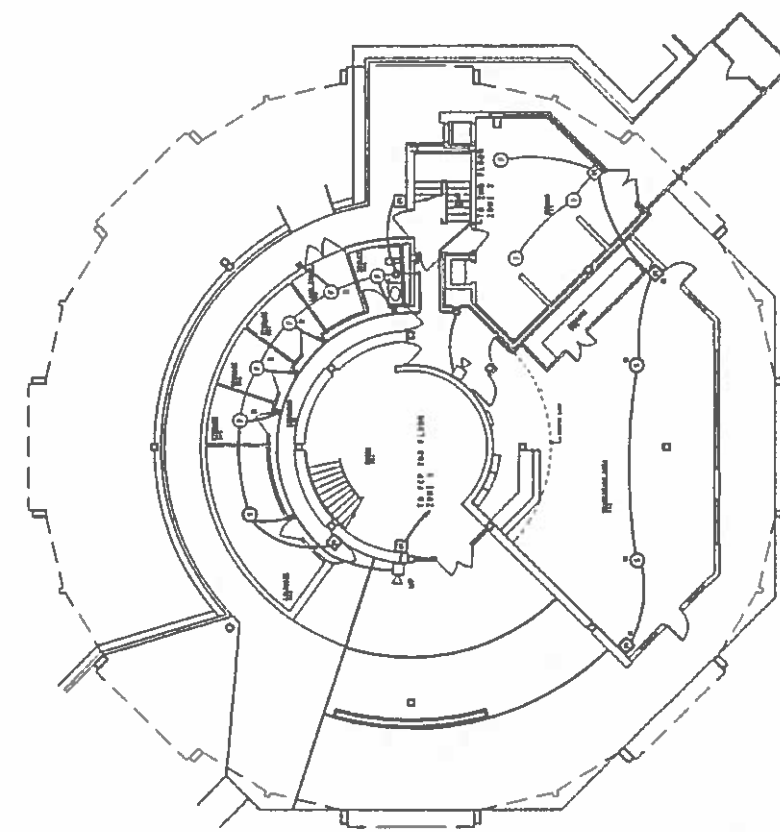
- NOTES**
- ① - ALL NEW PLUMBING FIXTURES, INCLUDING NEW SUPPLY LINES, SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE PLUMBING CODE, AS APPLICABLE TO THIS PROJECT.
 - ② - REPLACE EXISTING PLUMBING, WHERE NECESSARY, AND RELOCATE FROM ORIGINAL POSITIONS, WHERE NECESSARY. CAP ALL PLUMBING AS NOTED.
 - ③ - MAIN LINES ARE SHOWN FOR CLARITY.
 - ④ - EXISTING WATER SUPPLY & WASTE LINES FROM PIPE CHASE IN BUILDING ARE TO BE RELOCATED TO NEW PIPE CHASE IN BUILDING FOR "180" DEGREE TURN, IN ORDER TO AVOID ALL TYPES OF PIPE CHASE IN BUILDING FOR "180" DEGREE TURN, IN ORDER TO AVOID ALL TYPES OF PIPE CHASE.

GRAPHIC SCALES



U. S. COAST GUARD		NAVAL PLUMBING	
SHORE MAINTENANCE DETACHMENT			
STATION		STATION	
U. S. COAST GUARD		U. S. COAST GUARD	
NAVAL ISLE, LOUISIANA		NAVAL ISLE, LOUISIANA	
PARTIAL PLUMBING PLAN		PARTIAL PLUMBING PLAN	
DATE: 7/15/67		DATE: 7/15/67	
DRAWN BY: [Signature]		DRAWN BY: [Signature]	
CHECKED BY: [Signature]		CHECKED BY: [Signature]	
7082		7082	





SECTION

THE UNIVERSITY OF CHICAGO

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APPROXIMATE DATES: 1970-1971

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THE UNIVERSITY OF CHICAGO PRESS

2017 2nd 4th 12th 14th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st

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SEATTLE, WA 98104

STANDARD OF PROOF

SEE THE PLAN FOR SCHEDULING OF TESTS TO LOCATE 0.250

ANNUNCIATOR ZONE LEGEND

Page	no	DESCRIPTION
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2	—	General ledger Statement
3	—	General ledger Statement
4	—	General ledger Statement
5	—	General ledger Statement
6	—	General ledger Statement
7	—	General ledger Statement
8	—	General ledger Statement
9	—	General ledger Statement
10	—	General ledger Statement

ON THE

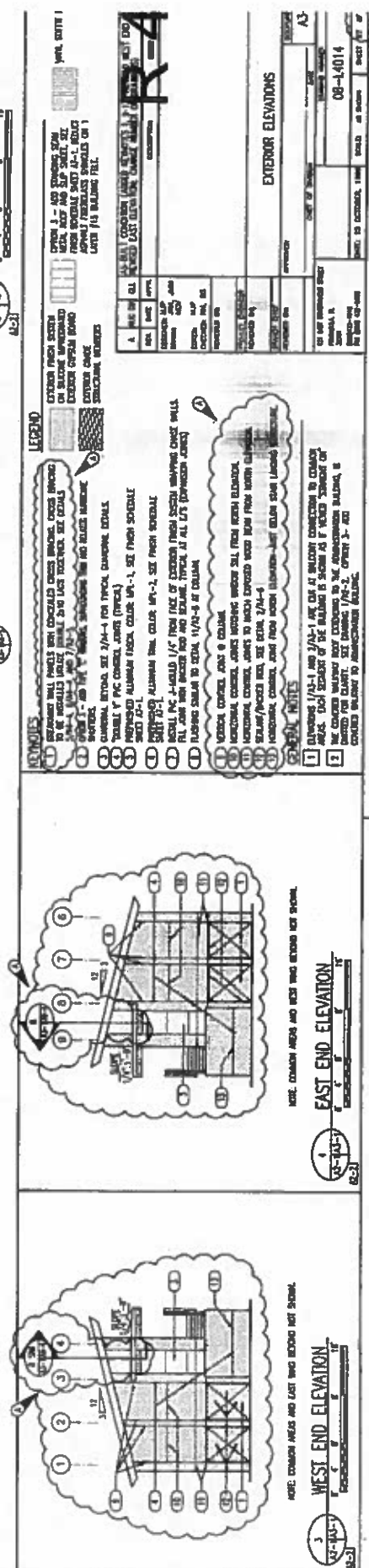
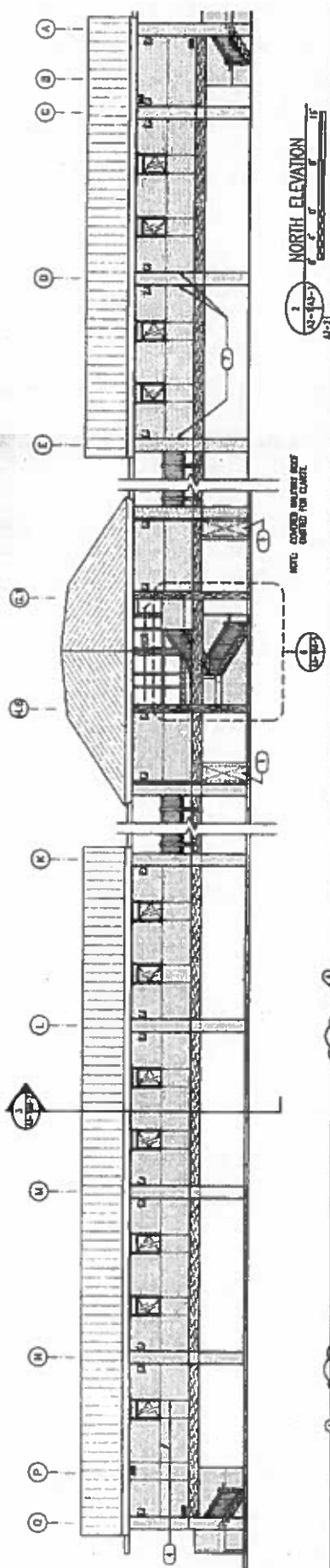
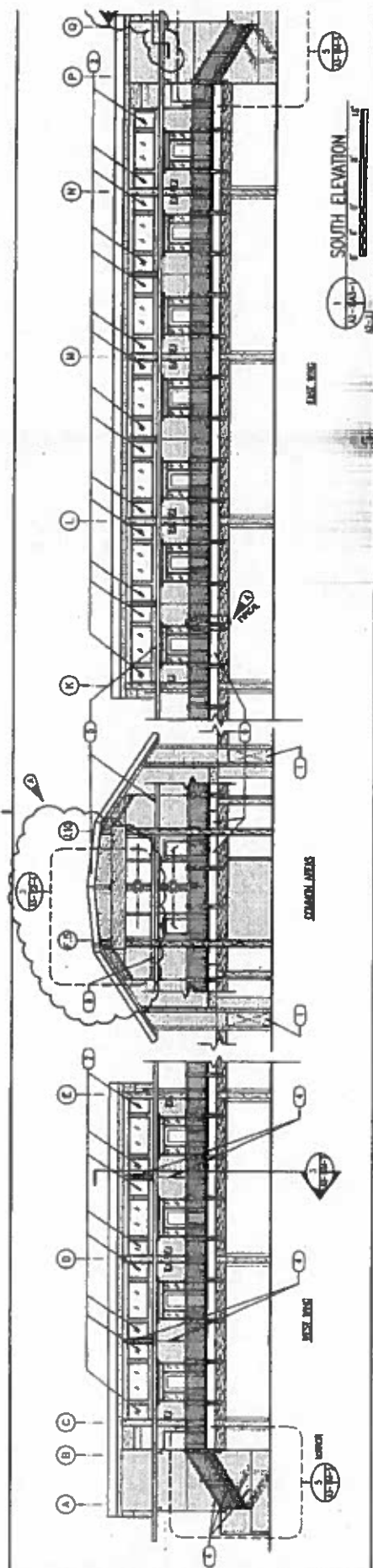
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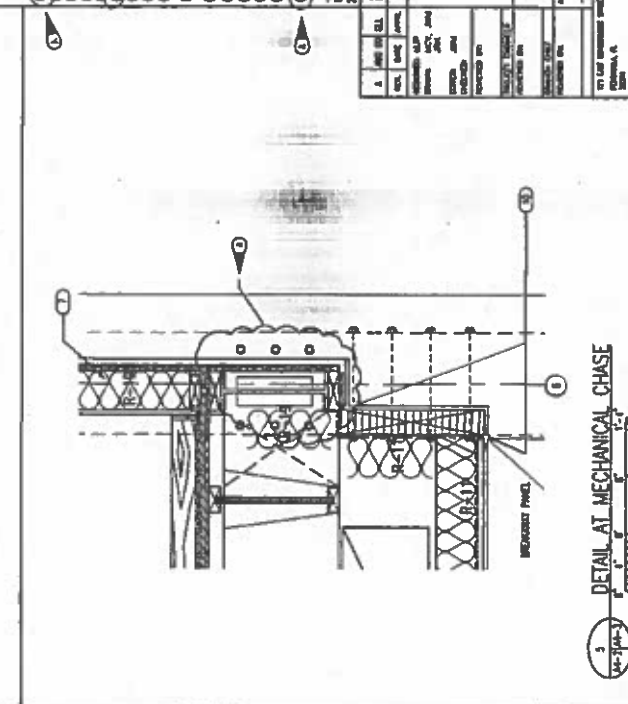
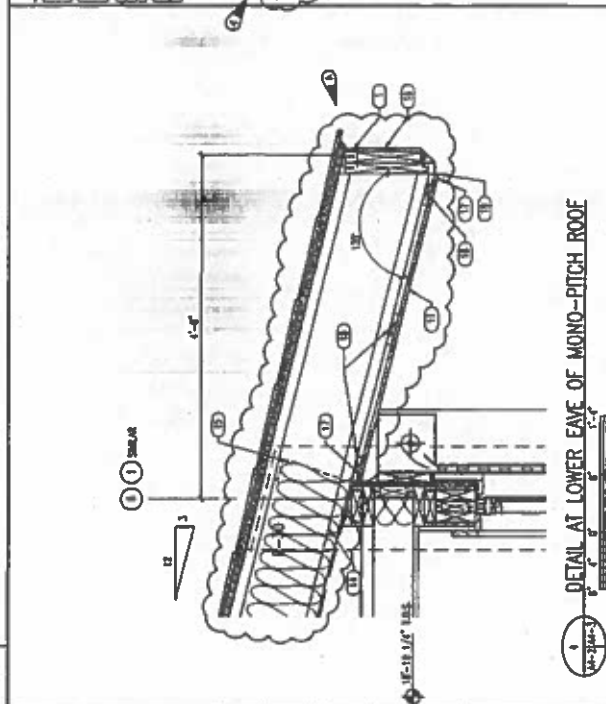
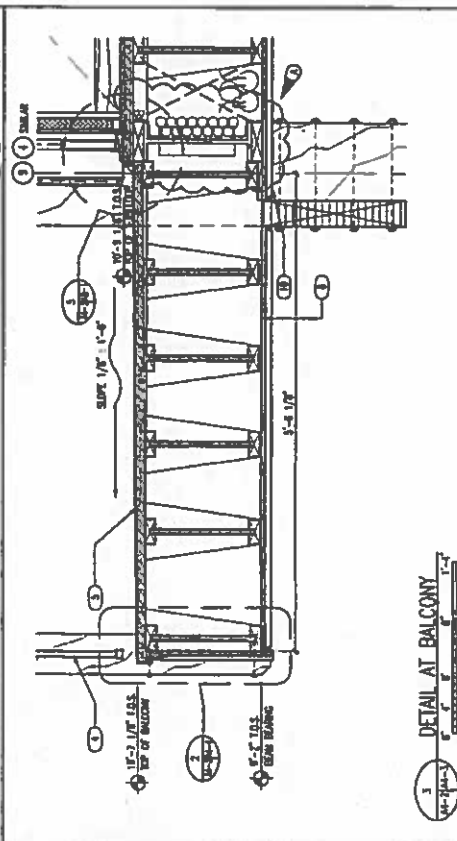
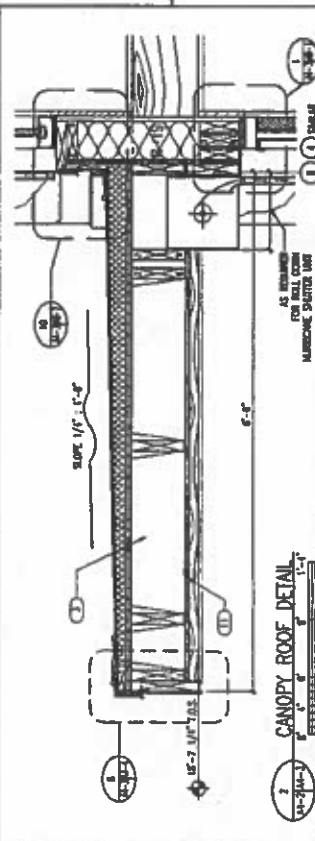
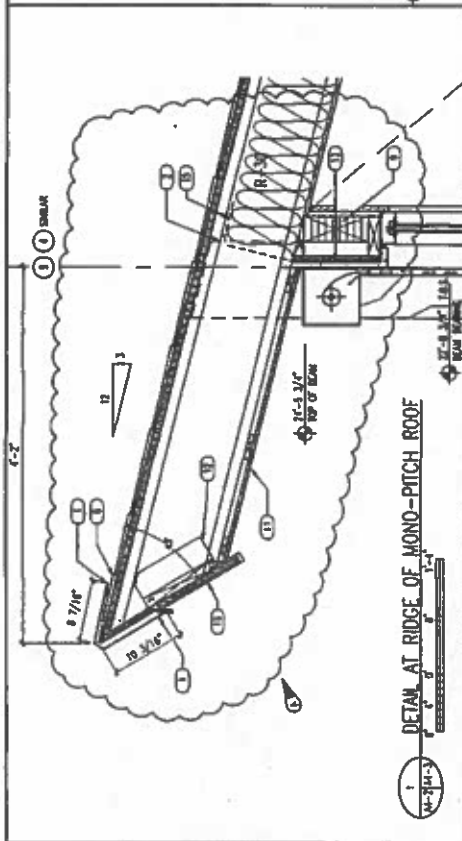
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ATTACHMENT 2

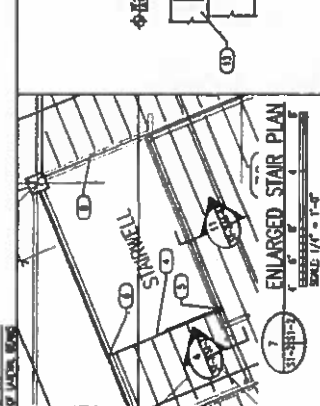
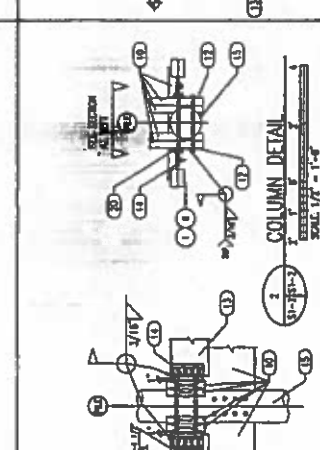
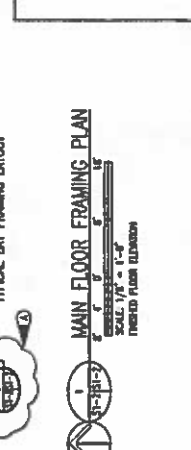
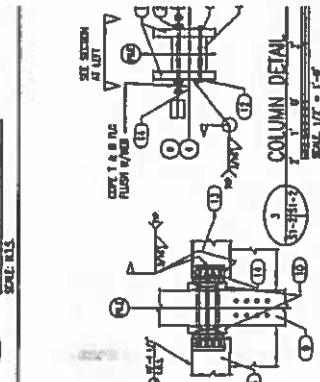
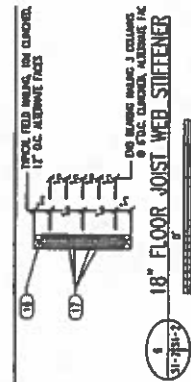
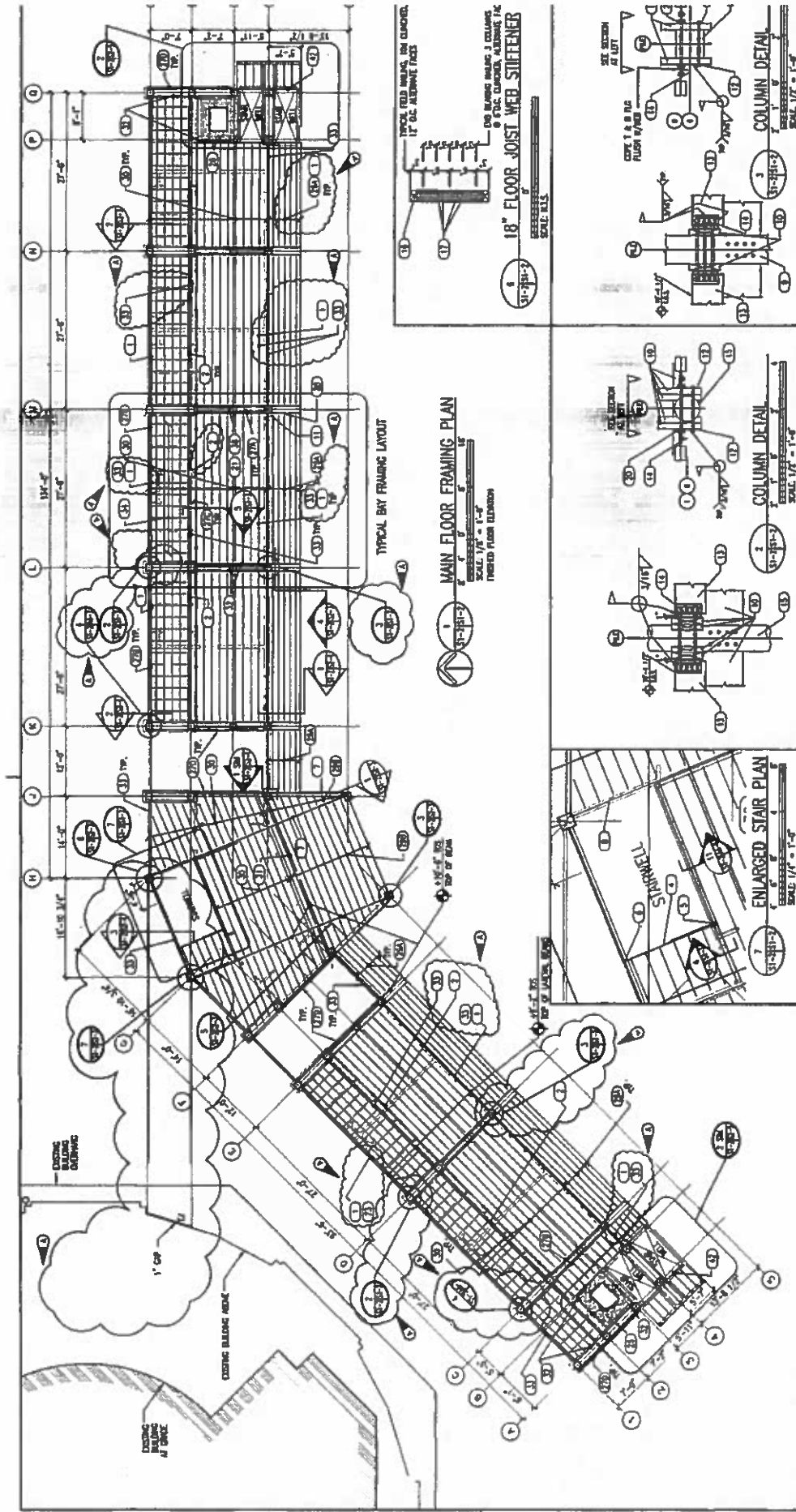
REFERENCE DOCUMENTS FOR
U.P.H. BUILDING



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FLORIDA R.
1958
1959-1967
1968-1970

DETAIL AT MECHANICAL CHASE



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GENERAL NOTES

- FOR MAIN FLOOR ELEVATION, SEE ARCHITECTURAL.
- FOR DETAILS, SEE DETAIL SHEET SET.
- ALL DIMENSIONS ARE IN FEET AND INCHES.
- ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO OUTLINE UNLESS OTHERWISE NOTED.
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KEYNOTES (SEE SHEET 041)

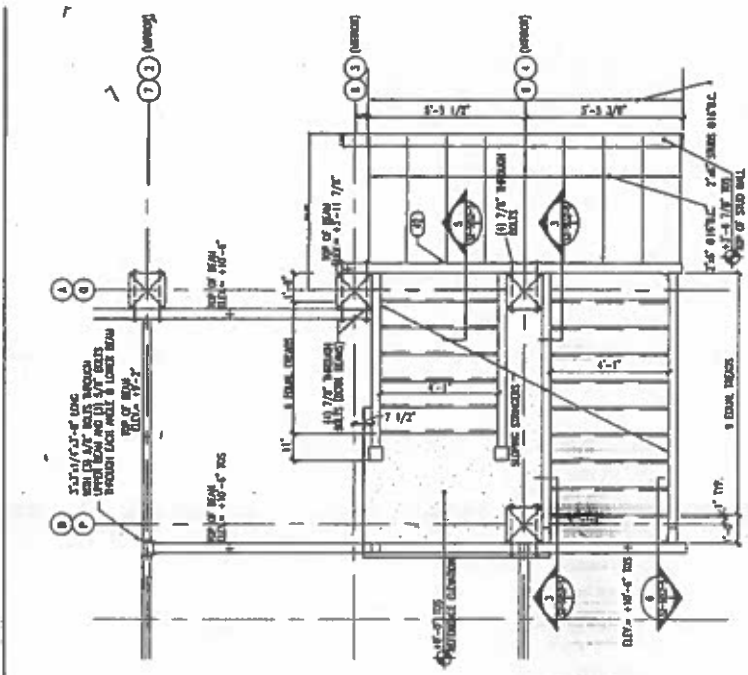
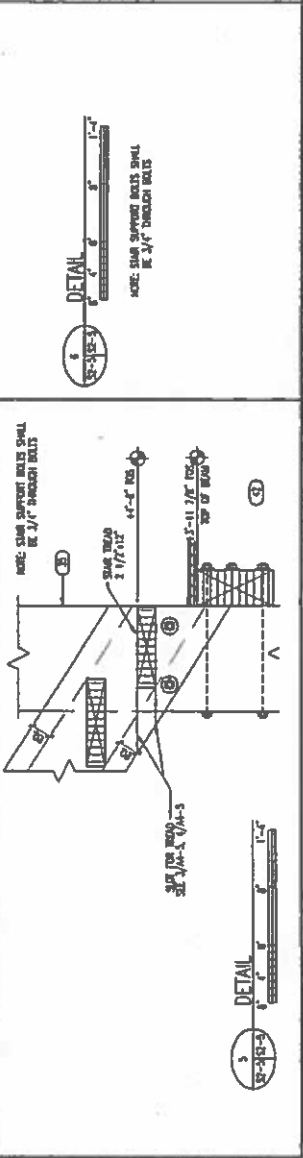
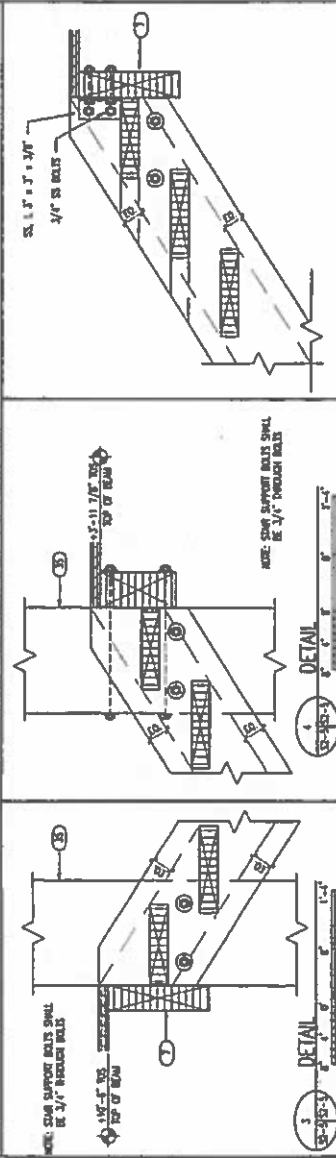
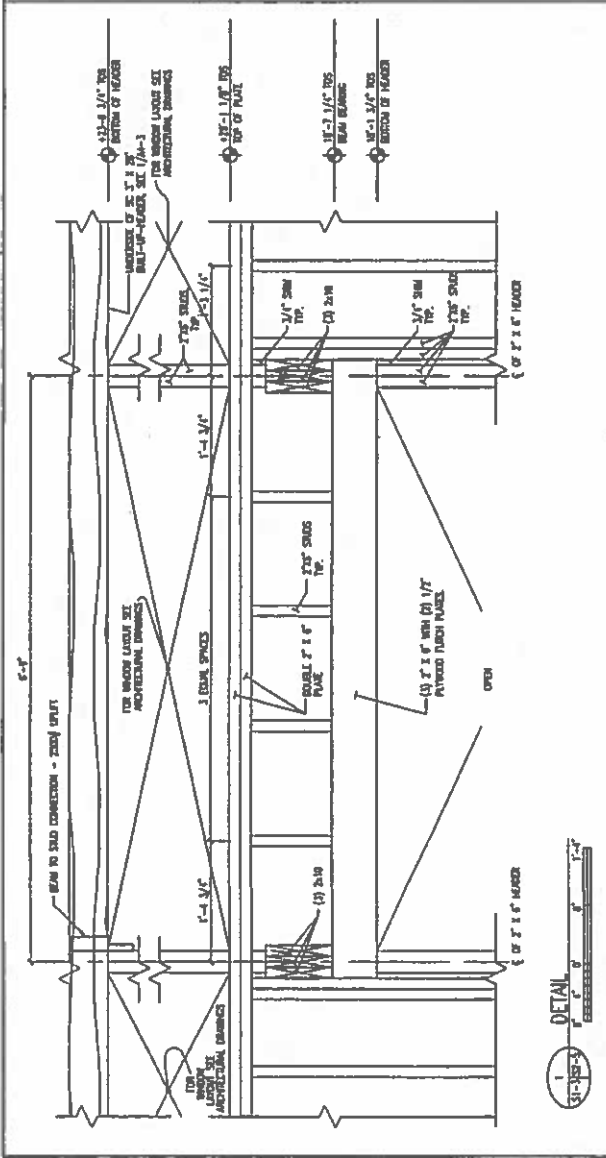
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- 6" X 6" STEEL PLATE BEAM
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KEYNOTES (SEE SHEET 041)

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- 10" X 10" STEEL PLATE BEAM



NOTE: FLOOR JOIST FRAMING AT WALK FLOOR NOT SHOWN.
 SEE DETAILS: 1/2\"/>

ENLARGED STAIR PLAN
 1/4\"/>

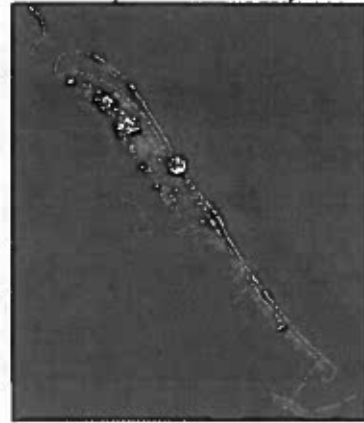
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STAIR FRAMING AND MISCELLANEOUS SECTIONS
 08-L-4011
 18 OCTOBER, 1998
 111



U.S. COAST GUARD
COAST GUARD STATION
GRAND ISLE, LOUISIANA

NEW EXERCISE ROOM USCG STATION GRAND ISLE GRAND ISLE, LOUISIANA



AREA OF WORK

LOCATION OF U.S. COAST
GUARD STATION GRAND ISLE

CITY OF GRAND ISLE



LOCATION MAP
SCALE: N.T.S.

VICINITY MAP
SCALE: N.T.S.

THE JOHNSON MCDONALD
CREWMOOD, MISSISSIPPI
BR-48-48-48-48

DESIGNATION



U. S. COAST GU.
CIVIL ENGINEERING
MIAMI



USCGC CGC MIAMI
15400 SW 117TH AVE
MIAMI, FLORIDA 33177

DATE	BY	REVISION
1/24/78	W.H. HARRIS	1
1/24/78	W.H. HARRIS	2
1/24/78	W.H. HARRIS	3
1/24/78	W.H. HARRIS	4
1/24/78	W.H. HARRIS	5
1/24/78	W.H. HARRIS	6
1/24/78	W.H. HARRIS	7
1/24/78	W.H. HARRIS	8
1/24/78	W.H. HARRIS	9
1/24/78	W.H. HARRIS	10

1/24/78	W.H. HARRIS	11
1/24/78	W.H. HARRIS	12
1/24/78	W.H. HARRIS	13
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1/24/78	W.H. HARRIS	18
1/24/78	W.H. HARRIS	19
1/24/78	W.H. HARRIS	20

GENERAL
TITLE SHEET

REVISION NO.	REVISION BY	DATE
1	W.H. HARRIS	1/24/78
2	W.H. HARRIS	1/24/78
3	W.H. HARRIS	1/24/78
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6	W.H. HARRIS	1/24/78
7	W.H. HARRIS	1/24/78
8	W.H. HARRIS	1/24/78
9	W.H. HARRIS	1/24/78
10	W.H. HARRIS	1/24/78

PROJECT NUMBER	2400471
PROJECT NAME	NEW EXERCISE ROOM
PROJECT LOCATION	USCG STATION GRAND ISLE
PROJECT DATE	1/24/78
PROJECT BY	W.H. HARRIS
PROJECT CHECKED BY	W.H. HARRIS
PROJECT APPROVED BY	W.H. HARRIS

PROJECT NUMBER	2400471
PROJECT NAME	NEW EXERCISE ROOM
PROJECT LOCATION	USCG STATION GRAND ISLE
PROJECT DATE	1/24/78
PROJECT BY	W.H. HARRIS
PROJECT CHECKED BY	W.H. HARRIS
PROJECT APPROVED BY	W.H. HARRIS

THE JOHNSON MACADAM
GREENWOOD, MISSISSIPPI
802-488-4443

CONTRACTOR



U. S. COAST GUARD
CIVIL ENGINEERING
MIAMI



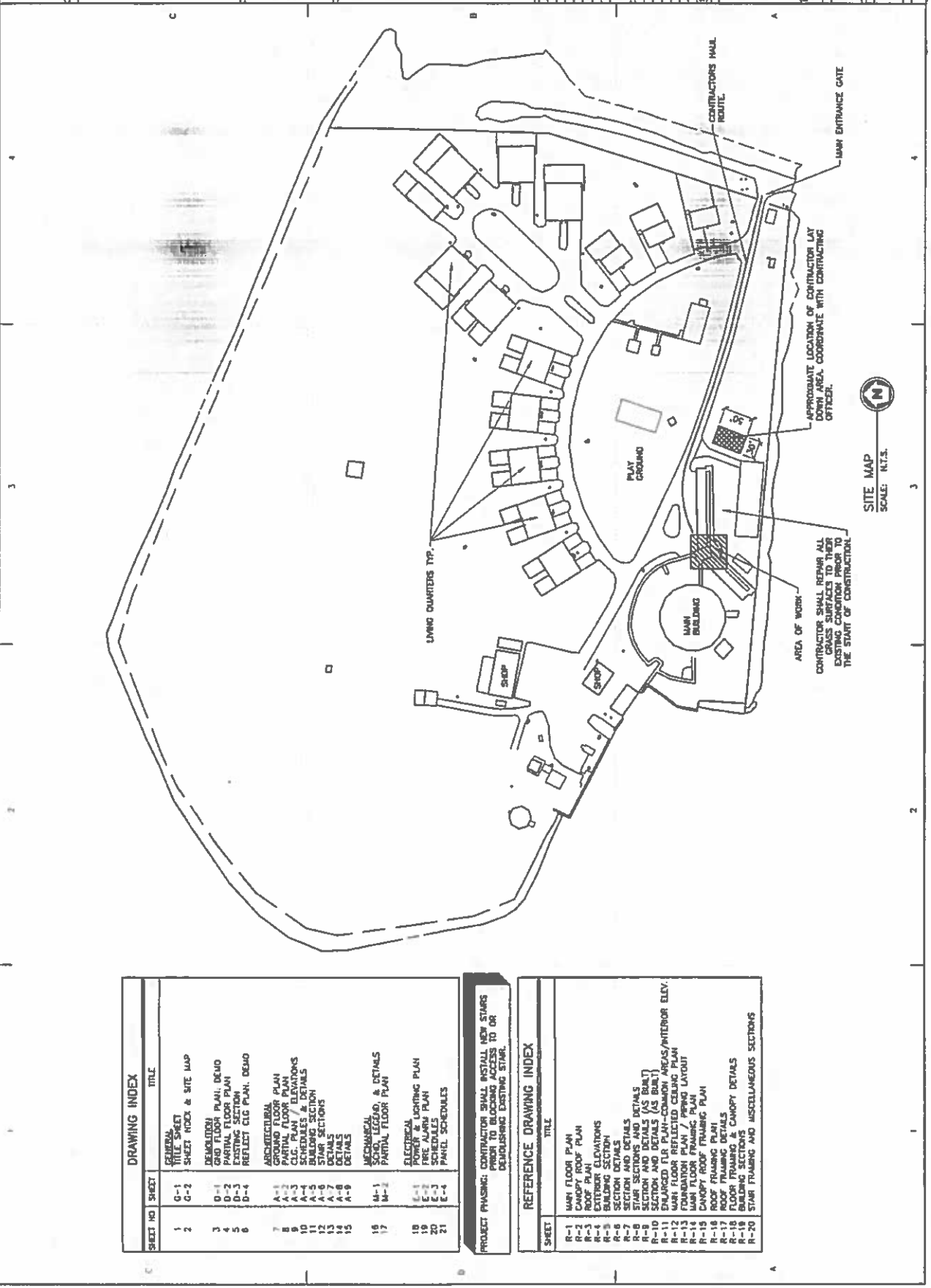
USCG, CEU MIAMI
15608 SW 117TH AVE
MIAMI, FLORIDA 33177

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3/2/78	W. J. JOHNSON	REVISED
4/2/78	W. J. JOHNSON	REVISED
5/2/78	W. J. JOHNSON	REVISED
6/2/78	W. J. JOHNSON	REVISED
7/2/78	W. J. JOHNSON	REVISED
8/2/78	W. J. JOHNSON	REVISED
9/2/78	W. J. JOHNSON	REVISED
10/2/78	W. J. JOHNSON	REVISED
11/2/78	W. J. JOHNSON	REVISED
12/2/78	W. J. JOHNSON	REVISED

DATE	BY	DESCRIPTION
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GENERAL
SHEET INDEX & SII

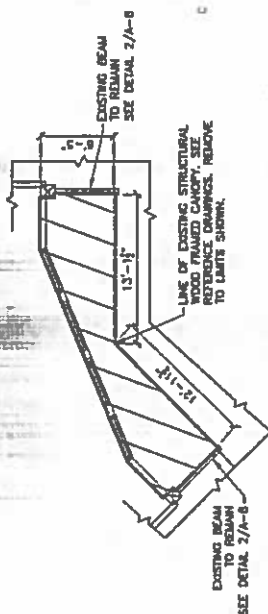
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2400471	M-1
2400471	G-2



SHEET NO.	SHEET	TITLE
1	G-1	GENERAL TITLE SHEET
2	G-2	SHEET INDEX & SITE MAP
3	D-1	DEMOLITION PLAN, DEMO
4	D-2	PARTIAL FLOOR PLAN
5	D-3	EXISTING SECTION
6	D-4	REFLECT CIG PLAN, DEMO
7	A-1	ARCHITECTURAL PLAN
8	A-2	COMMON FLOOR PLAN
9	A-3	CIG PLAN / ELEVATIONS
10	A-4	SCHEDULES & DETAILS
11	A-5	WALLING SECTION
12	A-6	DETAILS
13	A-7	DETAILS
14	A-8	DETAILS
15	A-9	DETAILS
16	M-1	MECHANICAL
17	M-2	SCHED. LEGEND, & DETAILS
18	E-1	ELECTRICAL
19	E-2	WIRING PLAN
20	E-3	FIRE ALARM PLAN
21	E-4	SCHEDULES

PROJECT PHASING: CONTRACTOR SHALL INSTALL NEW STAIRS
PRIOR TO BLOCKING ACCESS TO OR
DEMOLISHING EXISTING STAIRS.

SHEET	TITLE
R-1	MAIN FLOOR PLAN
R-2	ROOF PLAN
R-3	ROOF PLAN
R-4	EXTERIOR ELEVATIONS
R-5	BUILDING SECTION
R-6	SECTION AND DETAILS
R-7	SECTION AND DETAILS
R-8	SECTION AND DETAILS (AS BUILT)
R-9	SECTION AND DETAILS (AS BUILT)
R-10	ENLARGED FLOOR PLAN-COMMON AREAS/INTERIOR ELEV.
R-11	MAIN FLOOR REFLECTED CEILING PLAN
R-12	COMMON FLOOR PLAN / FLOOR LAYOUT
R-13	COMMON FLOOR PLAN / FLOOR LAYOUT
R-14	CANOPY ROOF FRAMING PLAN
R-15	ROOF FRAMING PLAN
R-16	ROOF FRAMING DETAILS
R-17	FLOOR FRAMING & CANOPY DETAILS
R-18	BUILDING SECTIONS
R-19	STAIR FRAMING AND MISCELLANEOUS SECTIONS
R-20	STAIR FRAMING AND MISCELLANEOUS SECTIONS

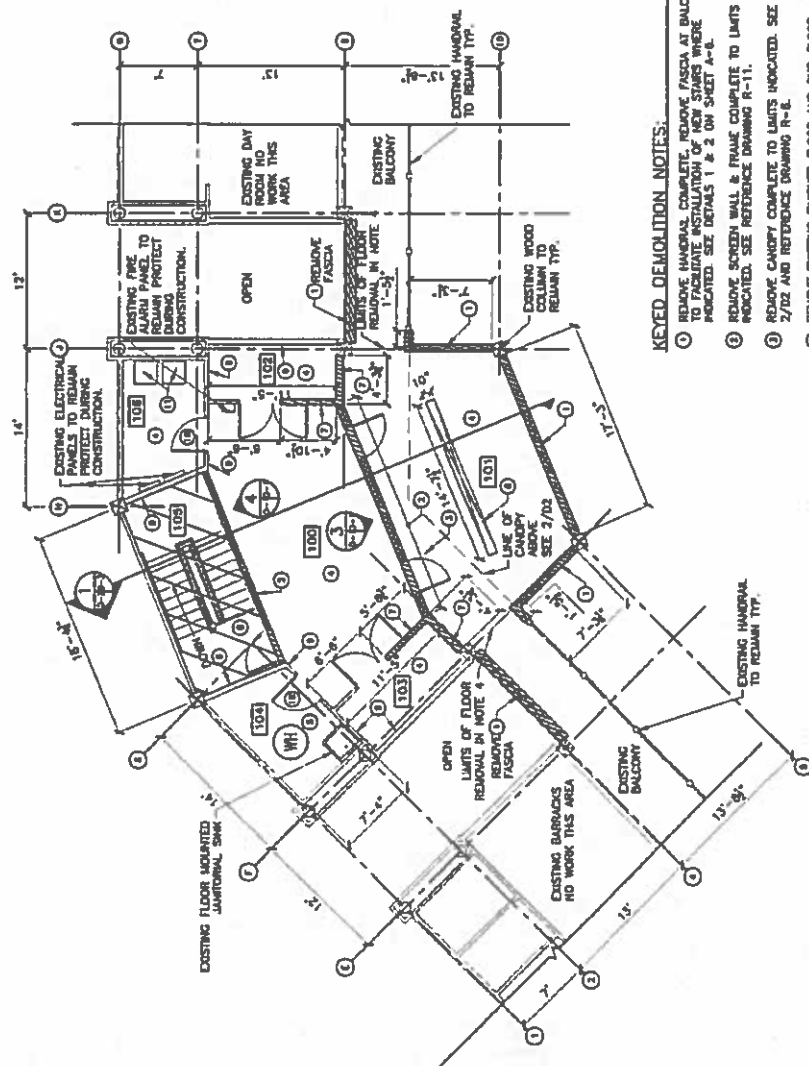


PARTIAL CANOPY PLAN: DEMOLITION

0-1-0.11/E 37025

GENERAL DEMOLITION NOTES:

1. SEE SHEETS D-3 AND D-4 FOR ADDITIONAL DETAILING.
2. REFERENCE DRAWINGS OF MANUFACTURING FACILITY ARE PROVIDED TO Aid in UNDERSTANDING THE FACILITY. THEY ARE NOT TO BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES TO THE FACILITY. THE DESIGN DRAWINGS INDICATE THE CHANGES THAT AFFECT THIS PROJECT ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK OR ORDERING MANUFACTURED ITEMS.



KEYED DEMOLITION NOTES:

- ① REMOVE HANGERS, COMPLETE, REMOVE FASCOA AT BALCONY TO EXPOSE EXISTING WALLS, REMOVE FASCOA FROM HERE. INDICATED. SEE DETAILS 1 & 2 ON SHEET R-11.
- ② REMOVE SCREEN WALL & FRAME COMPLETE TO LIMITS INDICATED. SEE REFERENCE DRAWING R-11.
- ③ REMOVE CANDLE CUPBOARD TO LIMITS INDICATED. SEE 1/102 AND REFERENCE DRAWING R-8.
- ④ REMOVE EXISTING FINISHED FLOOR AND SUB-FLOOR COMPLETE. STRUCTURAL DECK TO REMAIN. SEE 1/70-3.
- ⑤ REMOVE EXISTING FLOOR, SUB-FLOOR AND DETERIORATED STRUCTURAL DECK DOWN TO FLOOR JOIST IN THIS ROOM. REMOVE AND REINSTALL FLOOR SINK, WATER HEATER SHALL REMAIN IN OPERATION, COORDINATE ANY DISRUPTION OF WATER HEATER OPERATION WITH CONTRACTING OFFICE.
- ⑥ REMOVE TRENCH DRAIN AND PIPING COMPLETE, PROVIDE 1" CD PLYWOOD PATCH AS REQUIRED.
- ⑦ REMOVE CLOSET WALLS COMPLETE INCLUDING DOOR TO LIMITS INDICATED.
- ⑧ REMOVE STAIR COMPLETE. SEE REFERENCE DRAWINGS R-5 AND R-6.1. THIS SHALL BE DONE ONLY AFTER INSTALLATION OF NEW STAIRS.
- ⑨ REMOVE EXISTING WALL, FINISH DOWN TO STUD FROM FLOOR TO UNBESPOKE OF CEILING.
- ⑩ REMOVE DOOR AND FRAME COMPLETE.
- ⑪ REMOVE, STORE, AND REINSTALL EXISTING WASHER AND DRYER.

1 PARTIAL MAIN FLOOR PLAN: DEMOLITION

Scale 3/16"=1'-0"

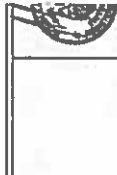
ROOM LEGEND	
ROOM NO	EXISTING ROOM NAME
10	CRIB ROOM
11	CRIB ROOM
12	CRIB
13	CRIB
14	ALUMINUM CRIB
15	CRIB
16	CRIB

LEGEND:

- WALLS/ PARTITIONS TO REMAIN
- WALLS/ PARTITIONS TO BE DEMOLISHED-
SEE KEYED NOTES FOR EXTENT OF
DEMOLITION

THE JOHNSON MCADAM
GREENWOOD, MISSISSIPPI
901-451-8413

CONTRACT NO.



U. S. COAST GUARD
CIVIL ENGINEERING
MIAMI



USCGC CGC MIAMI
15000 SW 117TH AVE
MIAMI, FLORIDA 33177

NO.	DATE	DESCRIPTION
1	1/2/78	ISSUED FOR REVIEW
2	1/2/78	ISSUED FOR REVIEW
3	1/2/78	ISSUED FOR REVIEW
4	1/2/78	ISSUED FOR REVIEW
5	1/2/78	ISSUED FOR REVIEW
6	1/2/78	ISSUED FOR REVIEW
7	1/2/78	ISSUED FOR REVIEW
8	1/2/78	ISSUED FOR REVIEW
9	1/2/78	ISSUED FOR REVIEW
10	1/2/78	ISSUED FOR REVIEW

1/2" PROJECT SET (1/2"=1'-0")	1/2" PROJECT SET (1/2"=1'-0")
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NEW EXERCISE ROOF
USCGC STATION GRANT
GRAND ISLE

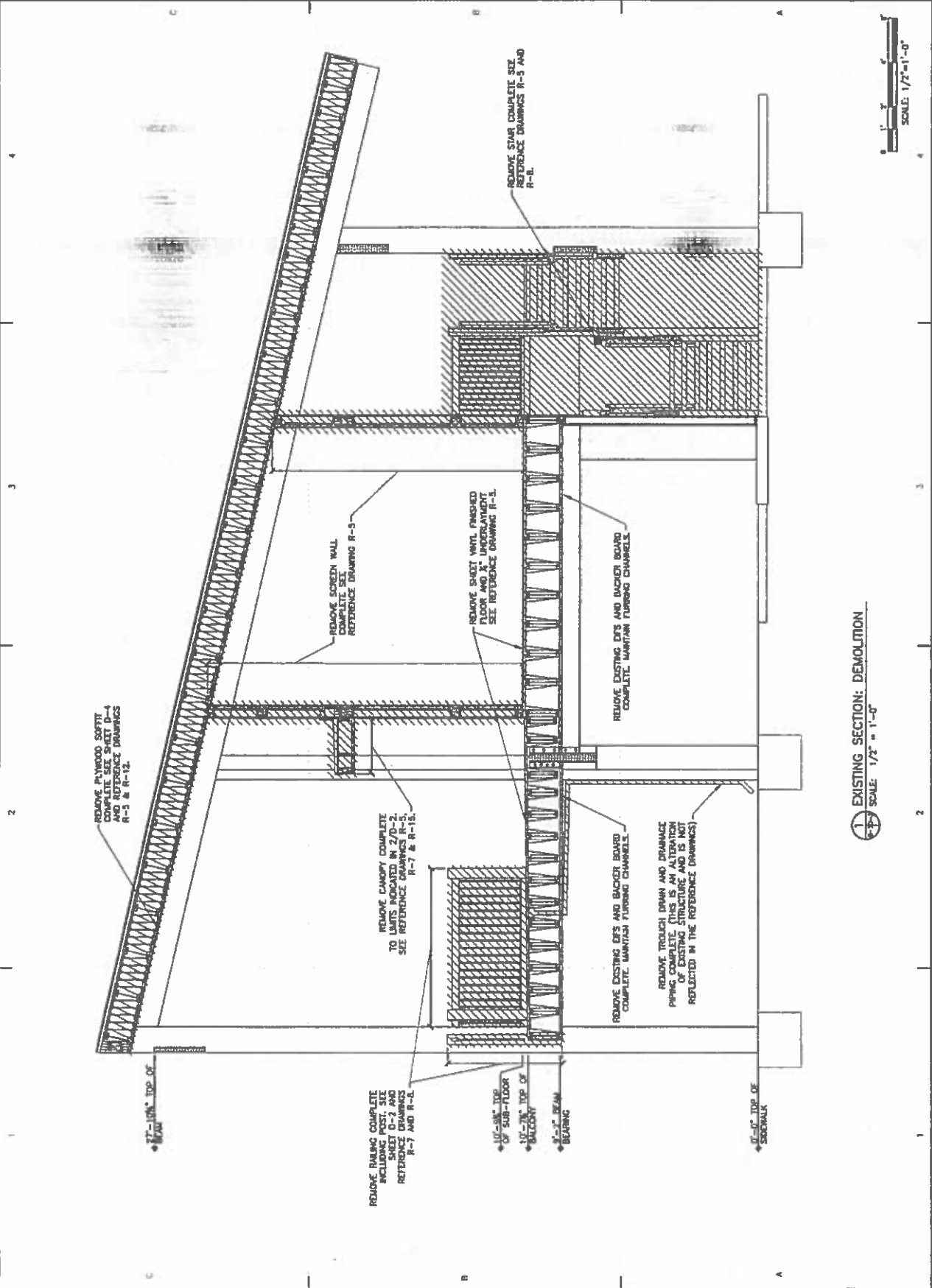
DEMOLITION
EXISTING SECTION

REVISION NO.	REVISION BY	REVISION DATE
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4	1/2/78	1/2/78
5	1/2/78	1/2/78
6	1/2/78	1/2/78
7	1/2/78	1/2/78
8	1/2/78	1/2/78
9	1/2/78	1/2/78
10	1/2/78	1/2/78

PROJECT NO.	PROJECT DATE	PROJECT OFFICE
2400471	1/2/78	MIAMI
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PROJECT NO.	PROJECT DATE	PROJECT OFFICE
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2400471	1/2/78	MIAMI
2400471	1/2/78	MIAMI





USCO, CEU MAIL
19508 SW 117TH AVE
MIAMI, FLORIDA 33177

NAME	DATE	DESCRIPTION
WAL	3/26/10	FINAL DOCUMENT
BOB	4/28/10	DISCUSS REVIEW @
BOB	5/3/10	DISCUSS REVIEW @

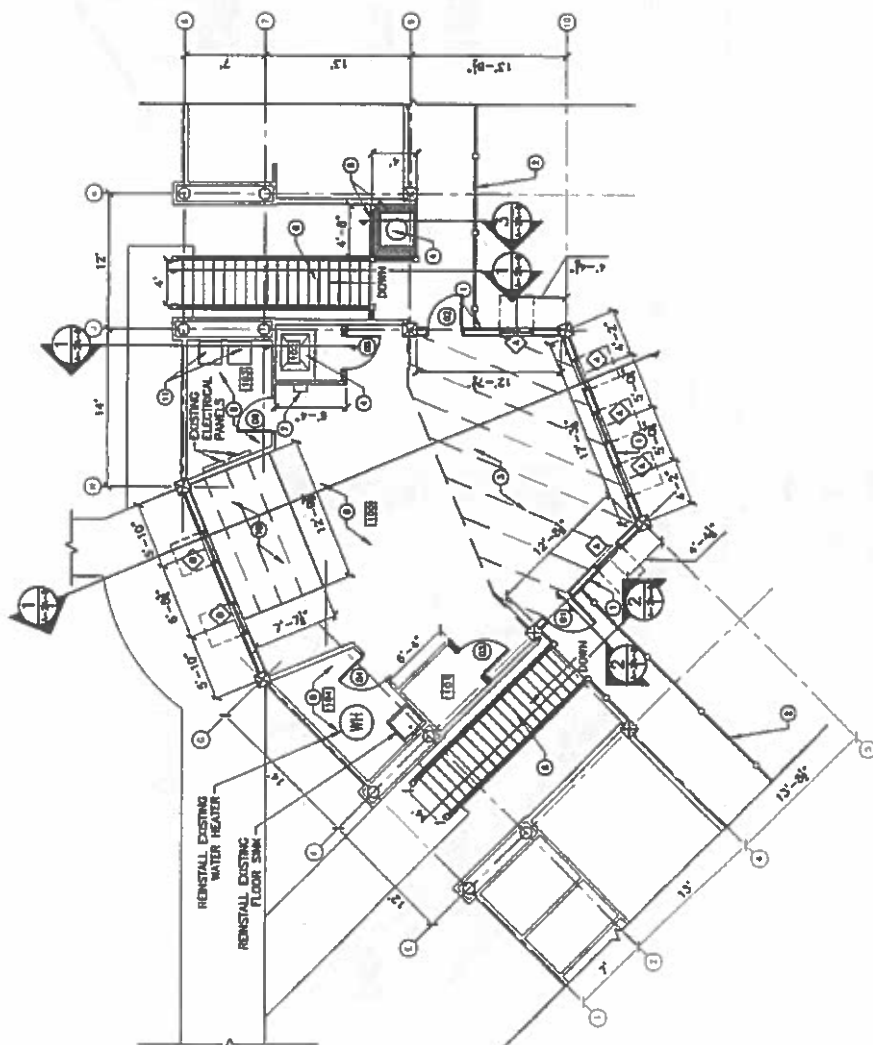
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NEW EXERCISE ROC
USCG STATION GRAND
GRAND ISLE

ARCHITECTURAL
PARTIAL FLOOR F

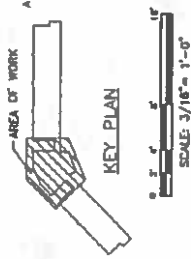
Approved by:	Approved in:	DATE
APPROVED OFFICE		

2400471	M-1
A-2	2400 8



KEYED NOTES:

- ① 2'-4" FILD WALL BY 1/2" C/P. IN. INTERIOR AND MATCH IMPACT EYE EXTERIOR.
- ② EXISTING BALCONY TO REMAIN
- ③ PROVIDE CD PLYWOOD OVERLAPMENT IF EXISTING FLOOR AREA TO BEING UP TO LEVEL WITH MAIN FLOOR. THIS FLOOR AREA IS APPROXIMATELY 1" BELOW THE MAIN FLOOR WITH A PER 12" SLOPE TO THE EDGE OF THE BALCONY. THE TOTAL ELEVATION CHANGE IS APPROXIMATELY 2". A COMBINATION CHANGE IS APPROXIMATELY 3". PROVIDE CD PLYWOOD AND FINISH FLOOR UNDERLAYMENT AS SPECIFIED OVER EXISTING FLOOR. PROVIDE 1/2" FLOOR JOIST SPACE FOR FLOOR FINISH. SEE REFERENCE DRAWING R-6.
- ④ NEW MECHANICAL UNIT SEE MECH. DRAWINGS.
- ⑤ NEW RAILING AND ONE (1) ALUMINUM GRATING FOR HVAC PLANT/RAIL SHEET 11
- ⑥ NEW STAIR (WOOD) TO MATCH EXISTING SEE SHEET A-9. (COMPLETE INSTALLATION OF NEW STAIR PRIOR TO DEMOLISHING EXISTING)
- ⑦ EXISTING ALUMI PANEL TO REMAIN. SEE ELECTRICAL DRAWINGS.
- ⑧ PROVIDE NEW 1/2" CD PLYWOOD SUB-FLOOR DECK. PROVIDE FINISH FLOOR UNDERLAYMENT AS SPECIFIED.
- ⑨ PROVIDE FINISH FLOOR UNDERLAYMENT AS SPECIFIED.
- ⑩ PROVIDE 18 TESS JUST @16" O.C. WITH 1/2" CD PLYWOOD SUB-FLOOR DECK. PROVIDE FINISH FLOOR UNDERLAYMENT AS SPECIFIED TO ENCLOSE EXISTING STAIRWELL PROVIDE SPLIT SQAIR @ BOTTOM OF JUST TO MATCH EXISTING SQAIR. PROVIDE R-19 BATT INSULATION BETWEEN JUST, SEE REFERENCE DRAWINGS R-3 & R-14.
- ⑪ REINSTALL WASHER AND DRYER.



ROOM NO	ROOM NAME
101	CHIEF ROOM
102	CLUB
103	MASTERS
104	MASTERS ROOM
105	MASTERS ROOM
106	MASTERS ROOM

1 PARTIAL FLOOR PLAN: FIRST FLOOR
SCALE: 3/16"=1'-0"

THE JOHNSON MCADAM
GREENWOOD, MISSISSIPPI
M63-266-48-13

Summary



**U. S. COAST GUARD
CIVIL ENGINEERING
MIAMI**



USCO, CEN MAIL
15608 SW 117TH AVE
MIAMI, FLORIDA 33177

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NEW EXERCISE ROC
USCG STATION GRAND
GRAND ISLE

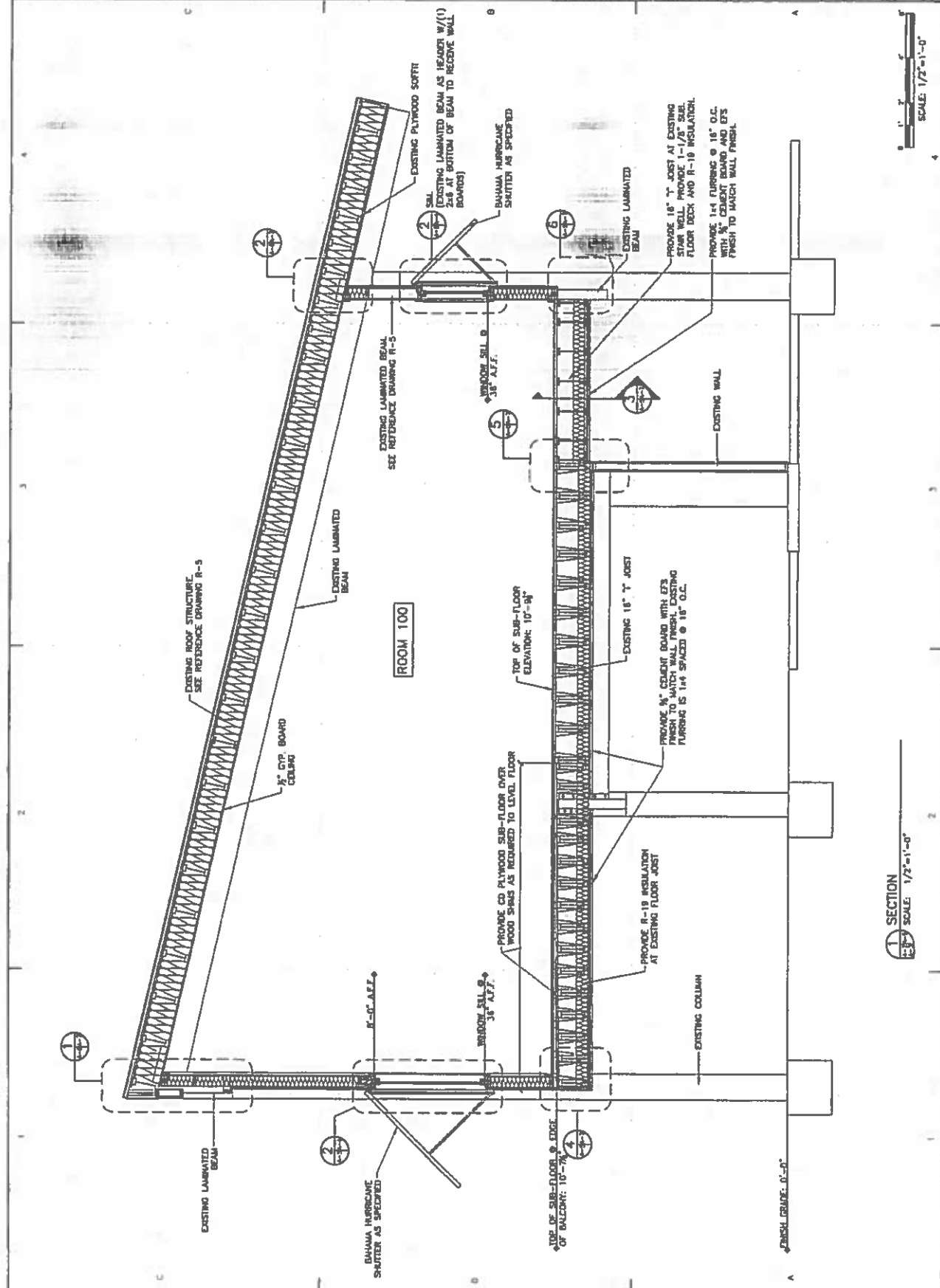
ARCHITECTURAL
BUILDING SECTION

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	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APPROVED OFFICE	6
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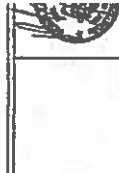
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THE JOHNSON MCADAM
GREENWOOD, MISSISSIPPI
MC-48-441

CONTRACT NO.



U. S. COAST GUARD
CML ENGINEERING
MIAMI



USCG, CDU MIAMI
15400 SW 117TH AVE
MIAMI, FLORIDA 33177

DATE	DESCRIPTION
1/25/78	1. PREPARED FOR THE U.S. COAST GUARD, CDU MIAMI, BY THE U.S. COAST GUARD, CML ENGINEERING, MIAMI.
1/25/78	2. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	3. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	4. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	5. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.

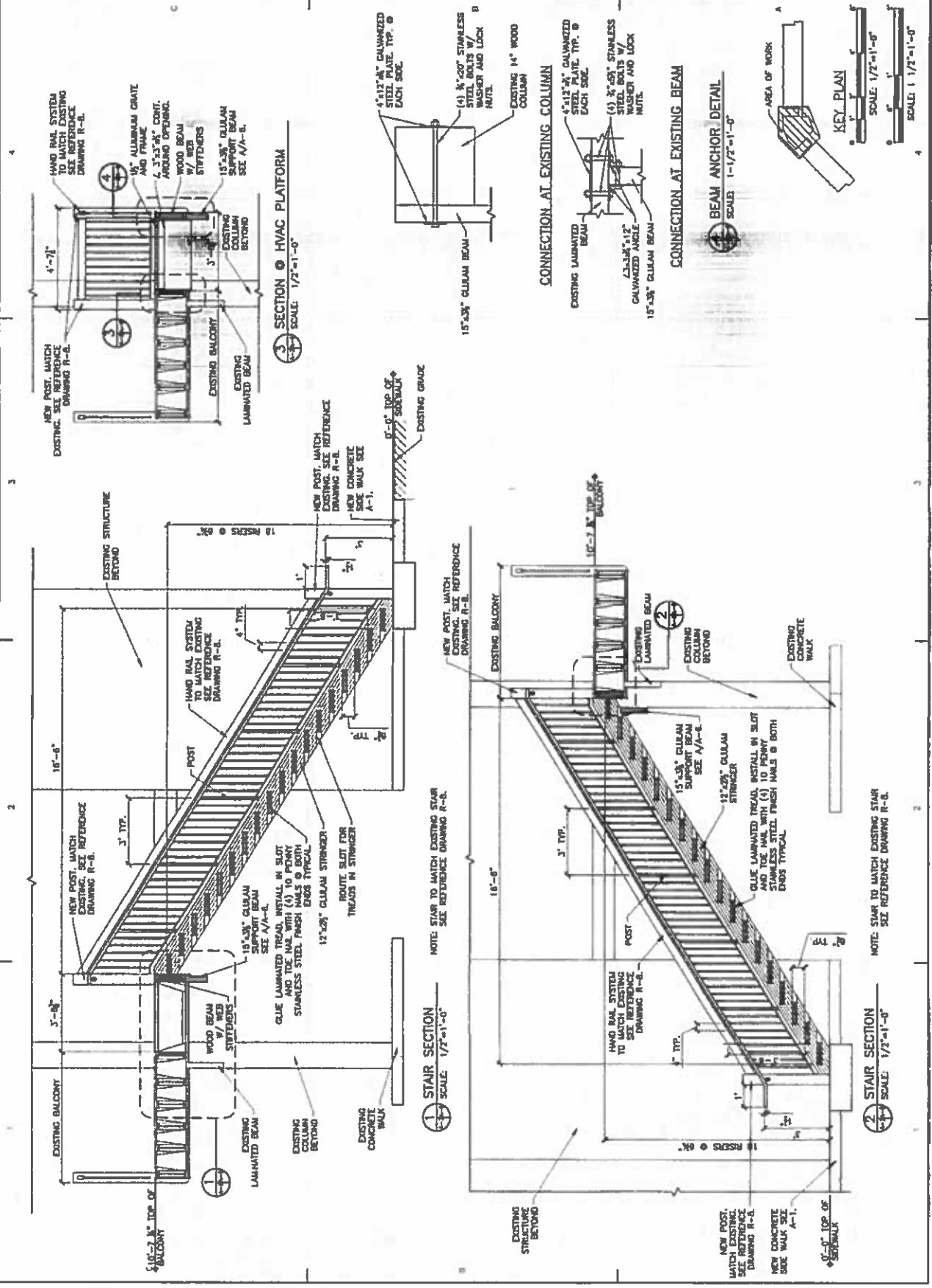
DATE	DESCRIPTION
1/25/78	1. PREPARED FOR THE U.S. COAST GUARD, CDU MIAMI, BY THE U.S. COAST GUARD, CML ENGINEERING, MIAMI.
1/25/78	2. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	3. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	4. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	5. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.

SCALE: 1/2"=1'-0"
NEW EXERCISE ROX
USCG STATION GRAC
GRAND ISLE

ARCHITECTURAL
STAIR SECTION

PROJECT NO. 2400471
PROJECT NAME: M-1
DRAWN BY: A-6
CHECKED BY: A-6

DATE	DESCRIPTION
1/25/78	1. PREPARED FOR THE U.S. COAST GUARD, CDU MIAMI, BY THE U.S. COAST GUARD, CML ENGINEERING, MIAMI.
1/25/78	2. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	3. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	4. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
1/25/78	5. REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.



ATTACHMENT

3

REFERENCE DOCUMENTS FOR
WPB BUILDING

③ W.F.B. BUILDING

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

U. S. COAST GUARD
CIVIL ENGINEERING UNIT
MIAMI



USCGC, C21 MALE
15400 SW 117TH AVE
MIAMI, FLORIDA 33177-1830

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE CONSTRUCTION OF THE WORK.
2. REMOVE ALL RUBBISH AND DEBRIS FROM THE PROJECT SITE DAILY. DO NOT ALLOW ACCUMULATIONS OF RUBBISH OR DEBRIS ON THE BUILDING.
3. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE THE CONSEQUENCES OF DUST AND DEBRIS TO THE SURROUNDING AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SURROUNDING AREA AND THE CONSTRUCTION OF A BARRIER OR FENCE IN THE SURROUNDING AREA.
4. PROTECT THE SPREAD OF DUST AND DEBRIS TO THE SURROUNDING AREA AND THE CONSTRUCTION OF A BARRIER OR FENCE IN THE SURROUNDING AREA.
5. PROTECT EXISTING WORK WHICH IS TO REMAIN IN PLACE OR TO BE REUSED.
6. PROTECT EXISTING WORK, MATERIALS AND EQUIPMENT AT ALL TIMES.
7. PROTECT EXISTING WORK, MATERIALS AND EQUIPMENT AT ALL TIMES.
8. PROTECT EXISTING WORK, MATERIALS AND EQUIPMENT AT ALL TIMES.
9. PROTECT EXISTING WORK, MATERIALS AND EQUIPMENT AT ALL TIMES.
10. PROTECT EXISTING WORK, MATERIALS AND EQUIPMENT AT ALL TIMES.
11. PROTECT EXISTING WORK, MATERIALS AND EQUIPMENT AT ALL TIMES.
12. CONSTRUCTION OF MECHANICAL ROOMS OF AMBUSHED FLOOR OPERATIONS TO BE BUILT.
13. PROVIDE SOME TRASH CONTAINERS. SEE DETAIL 4/7/87-1.

SECOND FLOOR PLAN

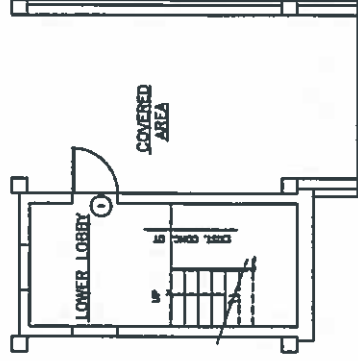
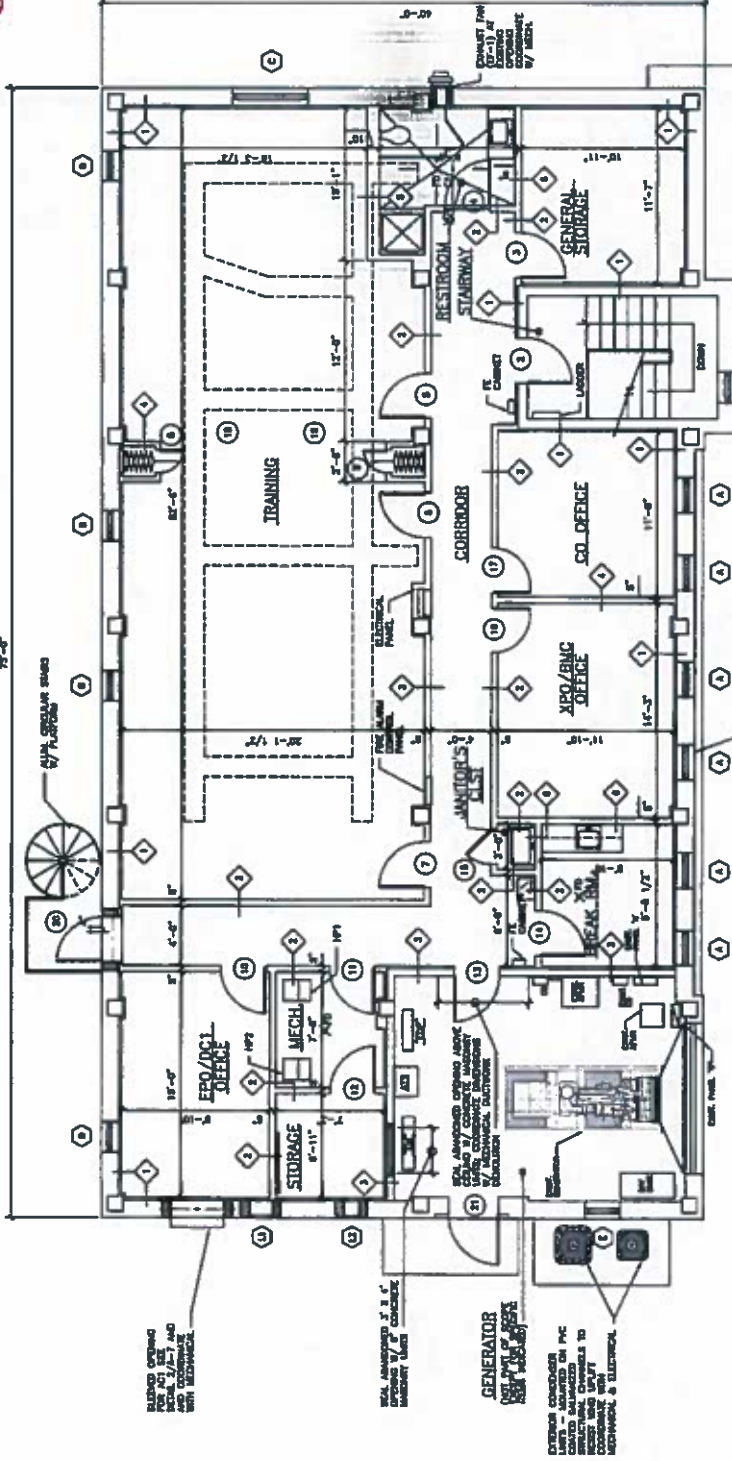
SCALE: 1/4" = 1'-0"

LEGEND

- NEW WALL CONSTRUCTION COORDINATE WITH WALL DETAILS
- EXISTING WALL CONSTRUCTION TO REMAIN
- CONCRETE MASONRY UNIT
- WALL AT AMBUSHED OPERATIONS
- MASONRY OPERATIONS
- 2'-0" x 4'-0" AND 2'-0" x 4'-0" GYM. DETAIL
- FLOOR DRAIN
- SLOPE FLOOR A MINIMUM OF 1/8"

PARTIAL GROUND FLOOR PLAN

SCALE: 1/4" = 1'-0"



08-M8979
MO657-D
A-3
SHEET 4 OF 2

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MIAMI



USCG, CGU MIAMI
16400 SW 17TH AVE
MIAMI, FLORIDA 33177-1830

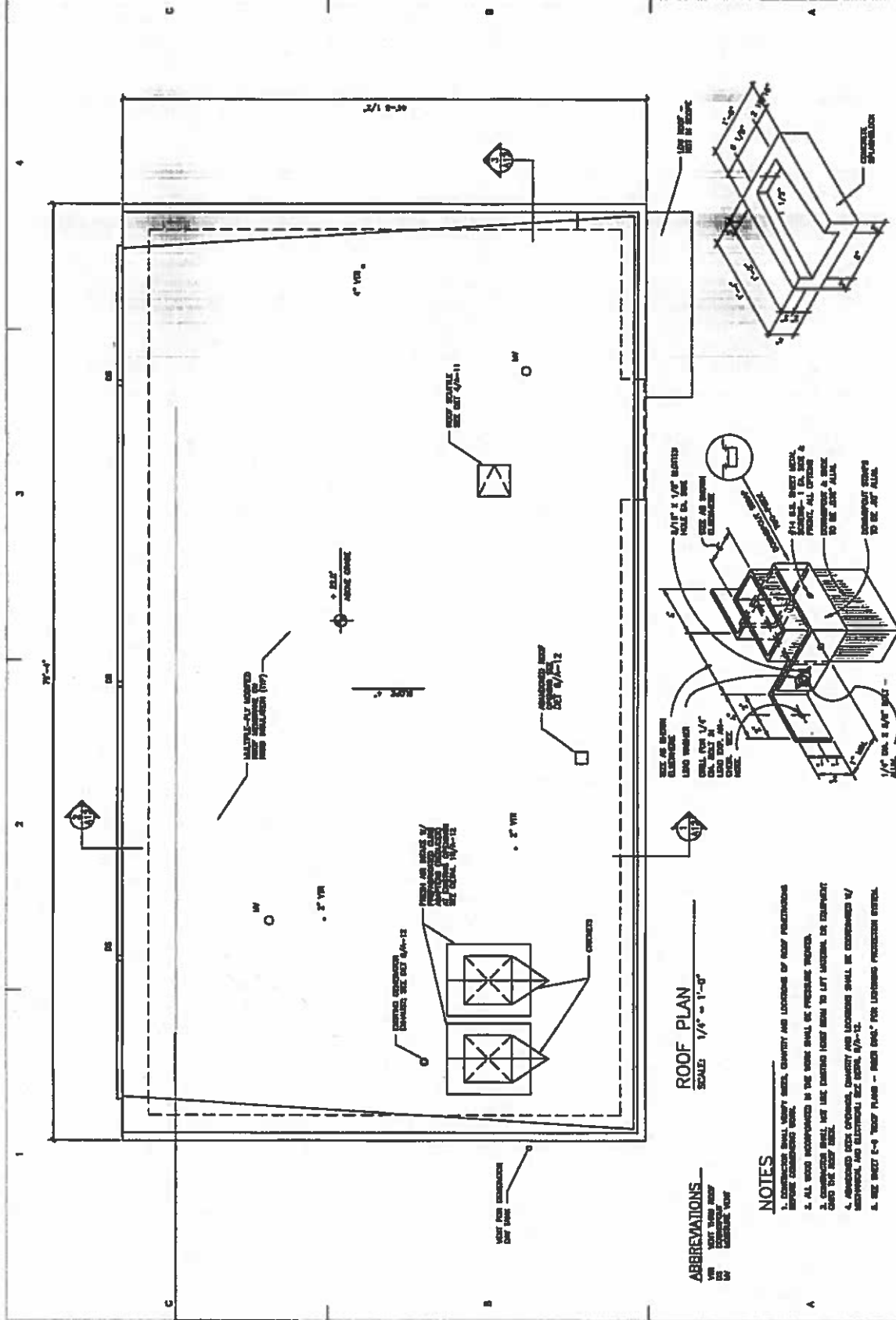
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WFB BUILDING REHABILITATION
USCG STATION GRAND ISLE
GRAND ISLE
WFB BUILDING ARCHITECTURAL
ROOF PLAN

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08-M8979 M0857-D
A-10

Sheet 11 of 2



ROOF PLAN
SCALE: 1/4" = 1'-0"

ABBREVIATIONS
1. 1/2\"/>

NOTES

1. CONTRACTOR SHALL VERIFY STEEL, QUALITY AND LOCATION OF ROOF PENETRATIONS BEFORE COMMENCING WORK.
2. ALL ROOF PENETRATIONS IN THE WORK SHALL BE PRELIMINARY.
3. CONTRACTOR SHALL NOT USE EXISTING ROOF MEMBRANE TO LIFT MEMBRANE OR EQUIPMENT AND THE ROOF SHALL BE REPAIRS AND REPAIRS SHALL BE COMPLETED BY CONTRACTOR AND ELECTRICAL REPAIR SHALL BE COMPLETED BY CONTRACTOR.
4. SEE SHEET 2-1 "ROOF PLAN" - REPAIRS AND REPAIRS FOR LIGHTNING PROTECTION SYSTEM.

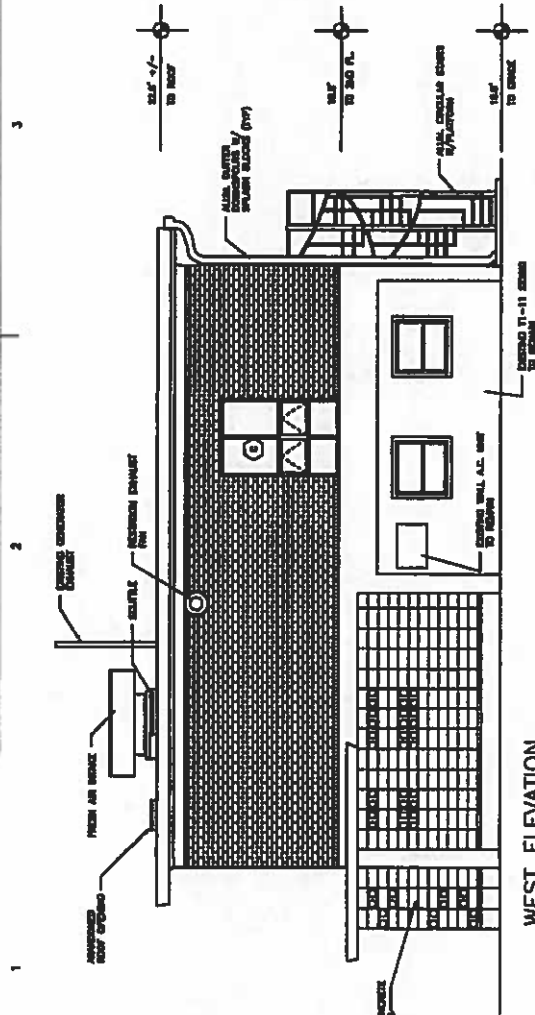
CONCRETE SPLASH BLOCK DETAIL
SCALE: NONE

DOWNSPOUT STRAP DETAIL
SCALE: 3/8" = 1'-0"



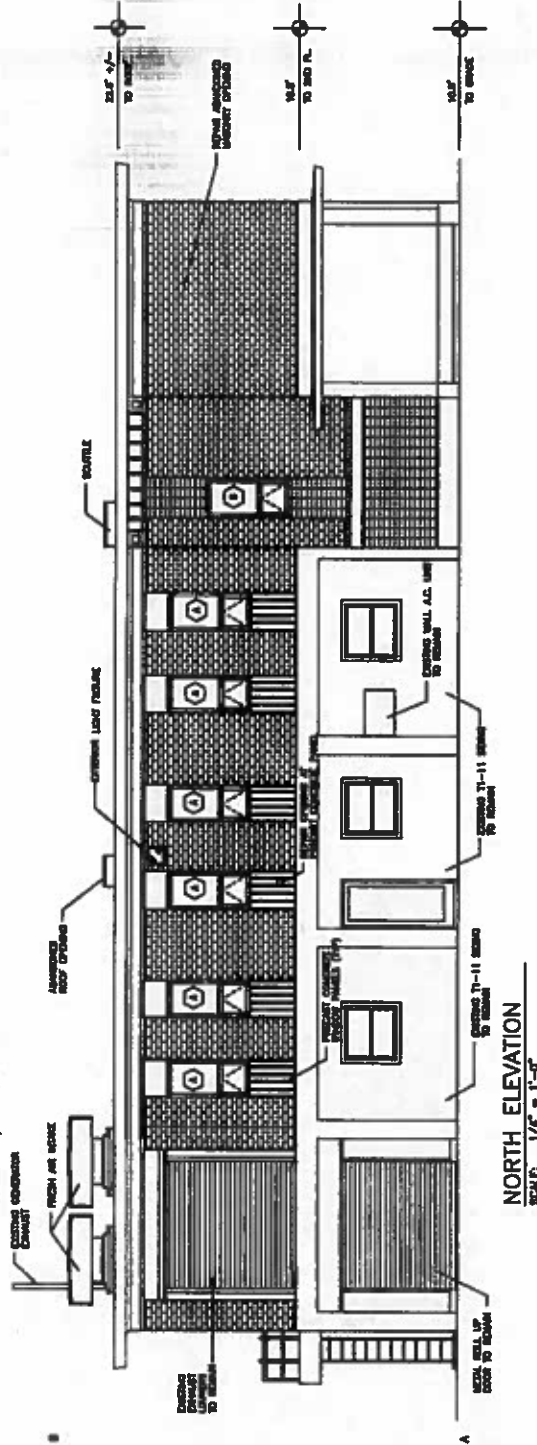
NOTES

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WEST ELEVATION

5-1 - 1/1 3M28



NORTH ELEVATION

2-1-21 7/1



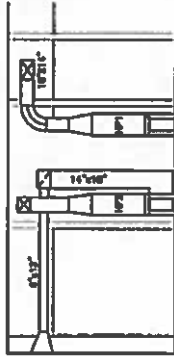
A-14 FEB 19 1964

1. REMOVED ALL LOOSE MATERIAL AT JOINTS, AND SPREAD GRASS SEEDS, CLEAN ALL WEEDS AND INSECTS.
2. MAJOR EXISTING DAMAGE INCLUDED ALL EXPOSED REINFORCING AND CONCRETE EXPOSURE THAT WAS TO REMAIN, PATCHED AND REPAIRED AS NECESSARY.
3. EXISTING AND EXPOSED REINFORCING ALL NEW WEEDERS AND GRASS SEEDS WERE APPLIED TO ALL EXPOSED REINFORCING WALL PROJECTIONS AS REQUIRED.
4. REINFORCING AT EXISTING STAIRS AND CONCRETE WALKWAY LAST FLOOR REPAIRED WITH STEEL AS REQUIRED.
5. EXISTING ALL EXISTING STAIRS, LANDSCAPING, ALL FLOOR EXPOSURE TO REMAIN, EXPOSED, PATCHED AND REPAIRED AS NECESSARY.
6. EXISTING ALL EXISTING STAIRS, PATCHED THE STAIRS EXPOSED AND REPAIRED.
7. CONCRETE WALL PAINT ALL EXISTING CONCRETE, SEAL, AND REPAIR SURFACES.
8. EXISTING WALL, LITTLE WALL, BE SCRAPED, PATCHED AND PAINTED AT ALL EXISTING EXPOSURE.

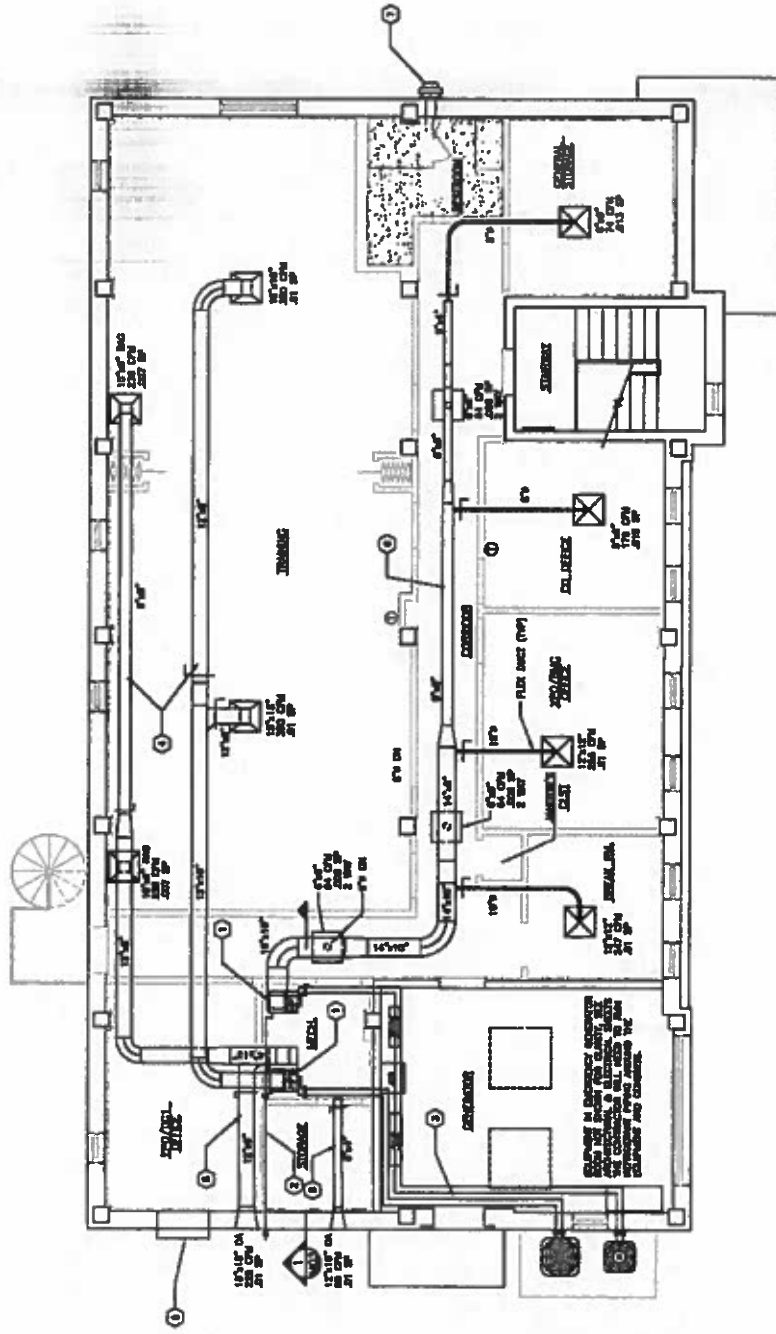


[illegible]

**I. EXAMINEE ALL EXAMINER WILL OFFERS
WITH ACQUISITION, ETC.**



SECTION 1
SCALE 1/4" = 1'-0"



HVAC SECOND FLOOR PLAN (NEW WORK)
SCALE: 1/4" = 1'-0"

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MIAMI



LECO, CEO WALKER
15008 SW 117TH AVE
MIAMI, FL 33177-1000

[illegible]

WPB BUILDING REHABILITATION
LISCOT STATION GRAND ISLE
GRAND ISLE LOUISIANA
WPB BUILDING
MECHANICAL

MECHANICAL FLOOR PLAN, SECTIONS

08-M8979	M0657-D
M-3	10 of 1

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MIAMI

USCGA, CUBA BRANCH
10000 SW 11TH AVE
MIAMI, FLORIDA 33177-1620



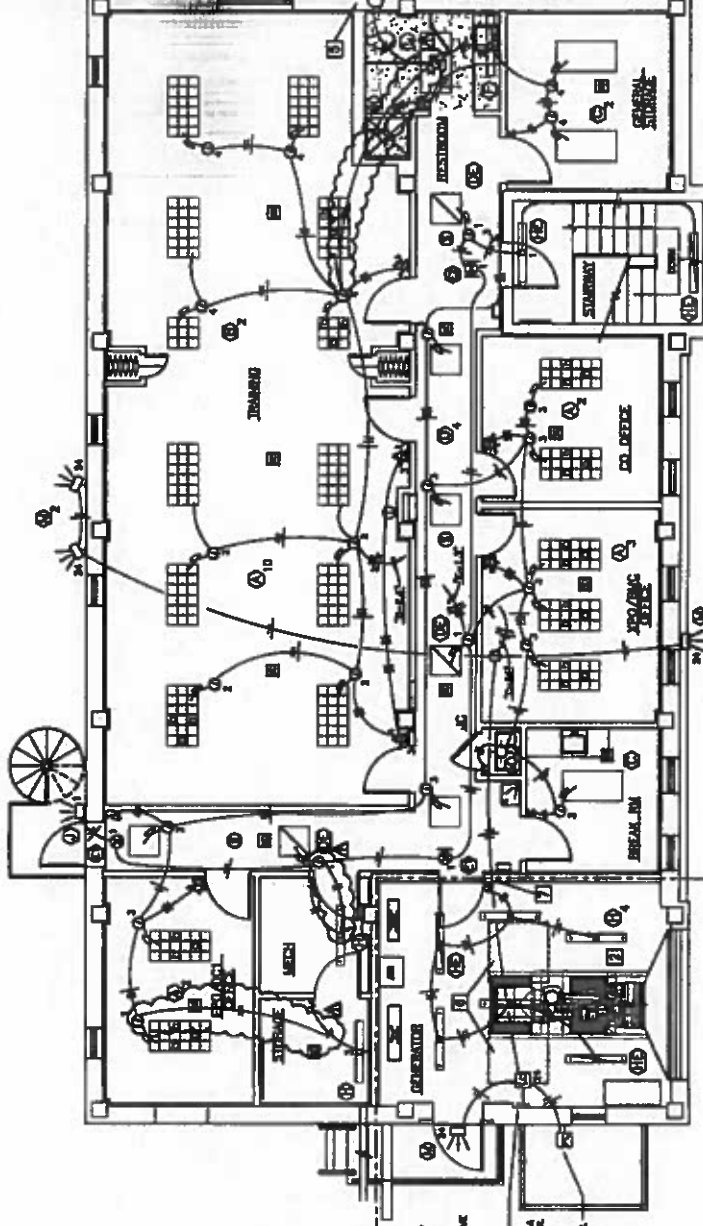
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6	10/1/68	REVISION
7	10/1/68	REVISION
8	10/1/68	REVISION
9	10/1/68	REVISION
10	10/1/68	REVISION

WBS BUILDING REMEDIATION
USCGA STATION GRAND ISLE
GRAND ISLE, FLORIDA
ELECTRICAL
LIGHTING PLAN

NO.	DATE	DESCRIPTION
1	10/1/68	ISSUED FOR CONSTRUCTION
2	10/1/68	REVISION
3	10/1/68	REVISION
4	10/1/68	REVISION
5	10/1/68	REVISION
6	10/1/68	REVISION
7	10/1/68	REVISION
8	10/1/68	REVISION
9	10/1/68	REVISION
10	10/1/68	REVISION

WORKING PLAN NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.



WALL MOUNTED LUMINAIRE

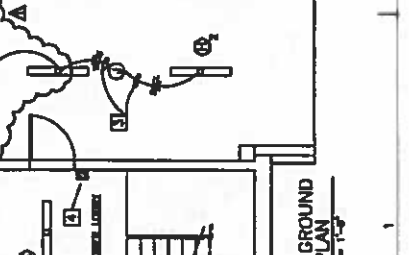
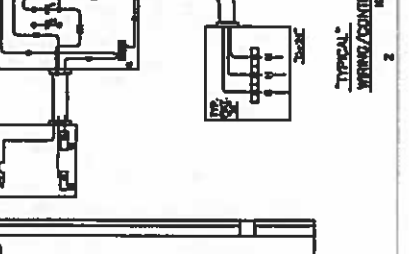
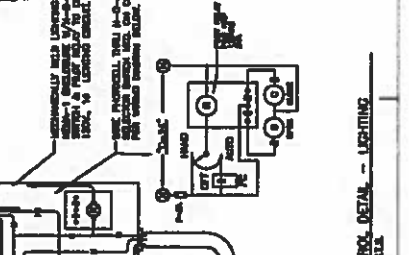
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WALL MOUNTED LUMINAIRE

WALL MOUNTED LUMINAIRE

WALL MOUNTED LUMINAIRE

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
9. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS.



WALL MOUNTED LUMINAIRE TYPE "M"

WALL MOUNTED LUMINAIRE TYPE "M"

WALL MOUNTED LUMINAIRE TYPE "M"

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WALL MOUNTED LUMINAIRE TYPE "M"

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CIVIL ENGINEERING UNIT
MIAMI



USCGC, CCGC MIAMI
18400 SW 11TH AVE
MIAMI, FLORIDA 33177

TABLE

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
2	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
3	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
4	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
5	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
6	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
7	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
8	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
9	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
10	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING

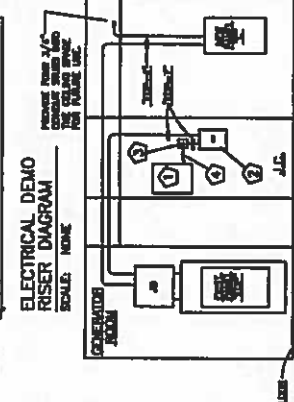
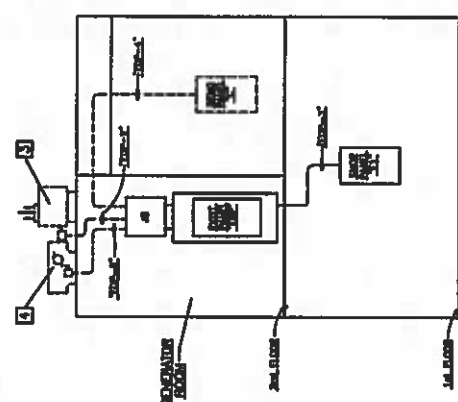
WPS BUILDING ELECTRICAL
ROOF PLANS - RISER DA
REVISIONS: 1. 08-10-97
2. 08-10-97
3. 08-10-97
4. 08-10-97
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PANEL "C"

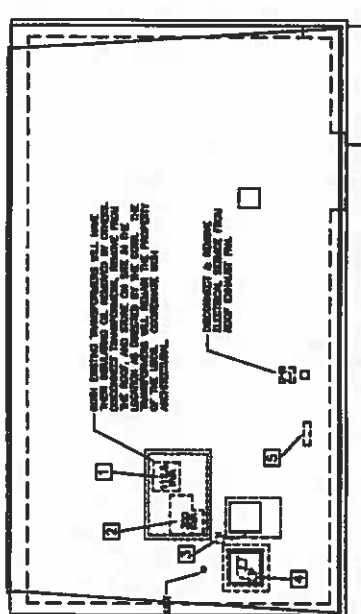
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3	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
4	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
5	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
6	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
7	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
8	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
9	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
10	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING

EXIST. PANEL "A"

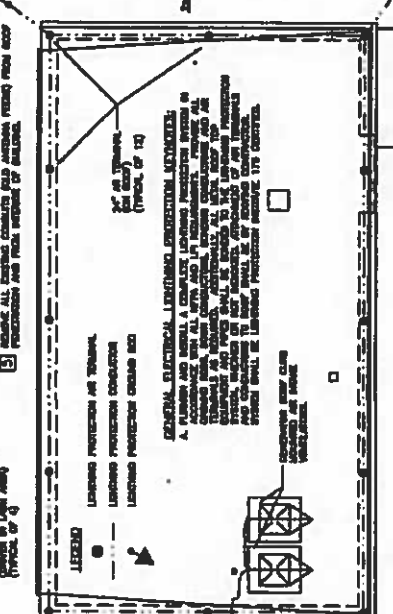
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2	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
3	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
4	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
5	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
6	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
7	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
8	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING
9	1/2" DIA. STEEL ROD	10	EA	FOR ANCHORING
10	1/4" DIA. STEEL ROD	20	EA	FOR ANCHORING



REVISION NOTES:
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7. 08-10-97
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10. 08-10-97



DEMOLITION PLAN NOTES:
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9. 08-10-97
10. 08-10-97



NEW ROOF PLAN NOTES:
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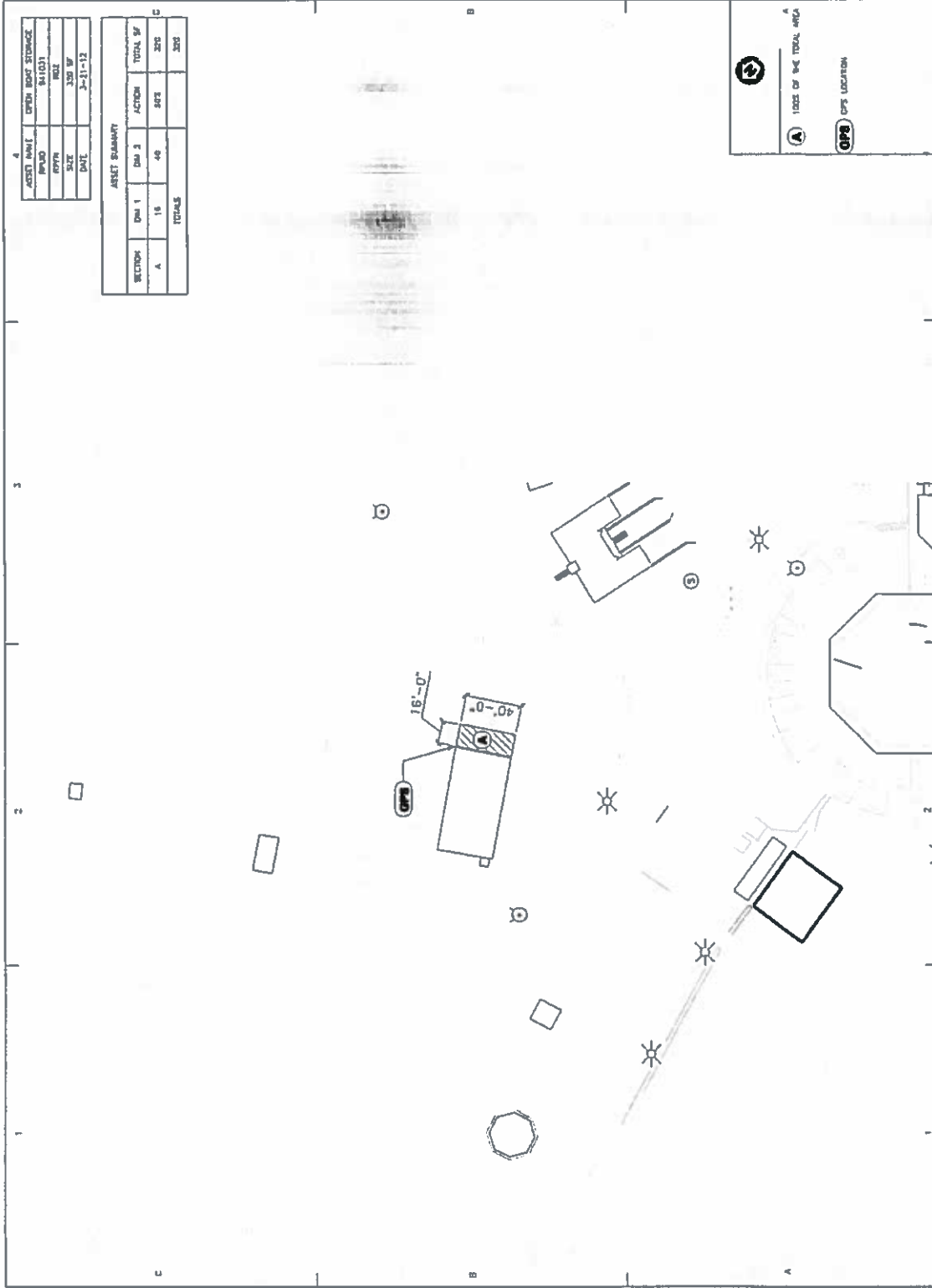
08-10-97
MOB57-C
E-6
SHEET 25 OF 25

ATTACHMENT

4

REFERENCE DOCUMENTS FOR
OPEN BOAT STORAGE

④ OPEN BOAT STORAGE



ASSET NAME	OPEN BOAT STORAGE
RYAN	841031
RYAN	841031
SIZE	330 SF
DATE	3-11-12

SECTION	Dim 1	Dim 2	ACTION	TOTAL SF
A	16	40	SAFE	320
TOTALS				320

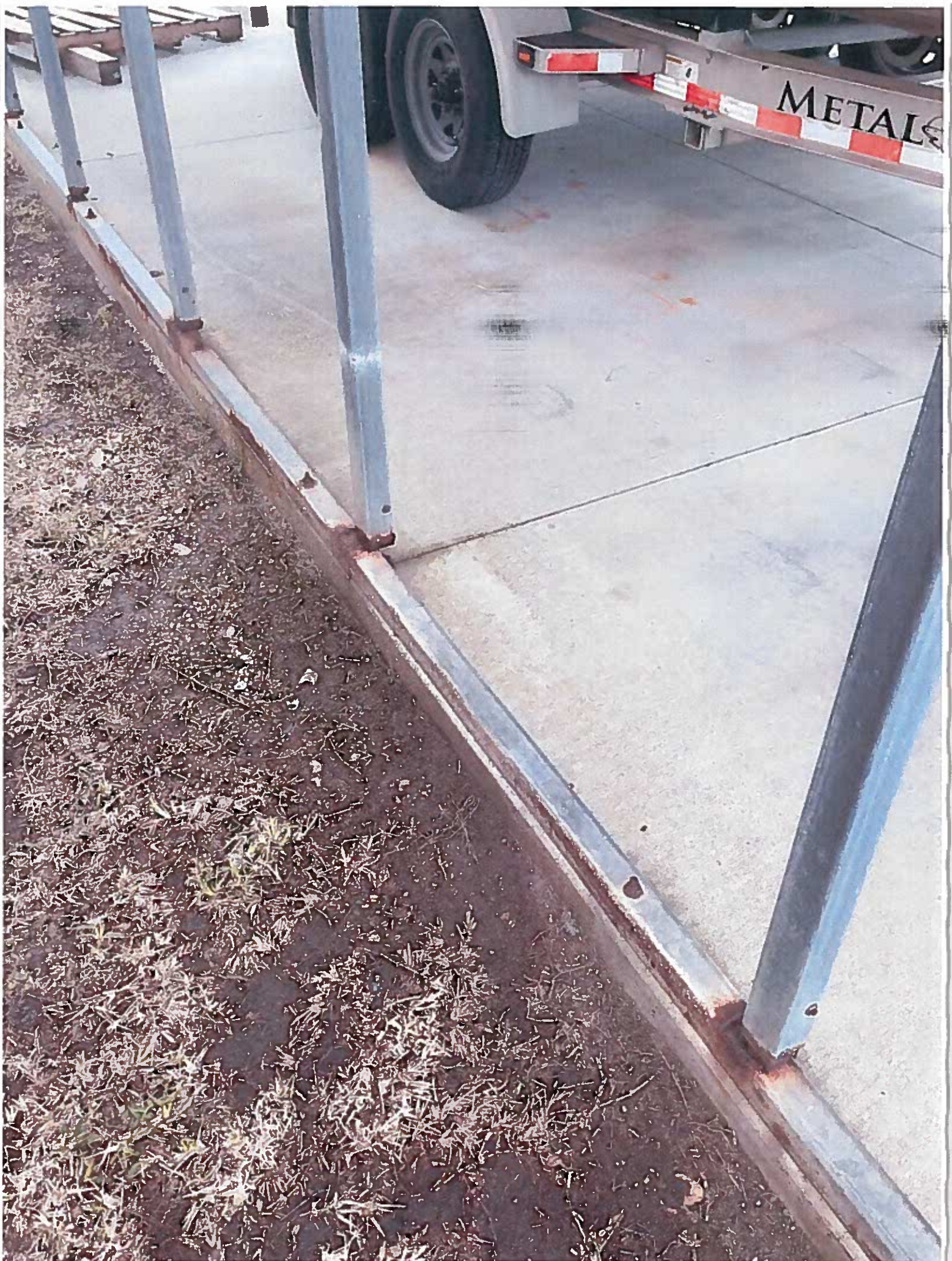
OPS	OPS LOCATION
A	100% OF THE TOTAL AREA











APPENDICES

CRITERIA FOR COMPUTER GENERATED DRAWINGS

A. INTRODUCTION

CEU MIAMI's CAD Standards are intended to be simple and only address the most fundamental of requirements for 2D CAD drafting. Any questions regarding these Standards should be directed to CEU MIAMI's CAD Manager.

B. GOVERNMENT PROVIDE INFORMATION AND ITEMS

Before the development of any CAD drawings, CEU MIAMI will provide the following electronic files:

Appendix A – Criteria for Computer Generated Drawings
Appendix B – Electronic Deliverables
Appendix C - CEU MIAMI File Naming Guide
Appendix E - Industry Standards for Const Docs
Design Submission Transmittal Form

C. DRAWING SHEET FILES AND BORDERS

Standard paper space drawing sheets with borders/title blocks shall be used.
The following Paper Space AutoCAD templates shall be used:

CEU MIAMI A-Landscape.dwt	-“A” size sheet (8.5” x 11”) (landscape)
CEU MIAMI A-Portrait.dwt	-“A” size sheet (8.5” x 11”) (portrait)
CEU MIAMI D Sheet.dwg	-“D” size sheet (34” x 22”) (landscape)
CEU MIAMI D Civil.dwg	-“D” size sheet (34” x 22”) (portrait)

All CAD drawings shall use the CEU MIAMI titleblock templates furnished to the Contractor by the Government. The design, configuration and attributes of this titleblock shall not be altered in any way. The Government uses a file management software program, "Adept", which extracts data from the attributes in each of the titleblock fields. If the attributes are changed, the data will not be readable by Adept and therefore make the drawing irretrievable. The Contractor's electronic drawing files will be checked at each submission for compliance, and if they are not acceptable, the Contractor will be required to insert new titleblocks and edit the fields appropriately.

D. SOFTWARE

USCG Civil Engineering Units and CEU MIAMI use AutoCAD 2017 software to develop 2D design and construction drawings. Contractor produced design and construction drawings may be prepared in ArchiCad 12 or Revit. If either ArchiCad or Revit are used to produce design or construction drawings, interim progress submittals must include editable 2D DWG AutoCAD 2017 electronic files for site plans and floor plans. These site and floor plans may be used by CEU MIAMI for developing other plans for furnishings and equipment. At all submittals, drawings, specifications, calculations and data shall be supplied in Adobe "pdf" format.

All As-built drawing files shall be 2D DWG files editable by AutoCAD 2017. Each As-built CAD drawing shall be a separate "dwg" file using the CEU MIAMI titleblock; multiple sheets may not be combined into one file.

E. LAYERS

Layers allow for graphic information to be grouped for display and plotting purposes. They are the BASIC CAD tool for managing visual information. Proper use of layers reduces drawing time and improves drawing coordination.

It is absolutely essential that layering is used, and that the naming format standards comply with the latest edition of **CAD Layer Guidelines** published by the American Institute of Architects.

F. COLORS AND LINE WEIGHTS

Colors: AutoCAD allows drawings to be plotted based on "Plot Styles" and "Color Dependent" plotting. CEU MIAMI uses Style based plotting, but will accept drawings developed for Color Dependent plotting. The A/E must provide their "ctb" file with their drawings files.

Line Weights: Line weights shall be assigned "By Layer" and shall be appropriate to produce a legible and easily read drawing when produced as half-size (11" x 17").

G. TEXT AND FONTS

Text: The USCG requires the use of ROMANS.shx font for general notes and text entities on Construction Documents. ROMAND.shx may be used for titles and special text where a bold font is needed. All text should be placed to an appropriate LAYER. It is suggested that basic notes be 0.35 line weight. For larger text such as titles, the weight could be thicker. The Multi-line text feature of AutoCAD must be used for multi-line text so that word wrapping can be utilized.

The height of general annotation text when plotted full-size shall be no less than 0.10" high.

H. FILE NAMING & DRAWING NUMBERS

Files shall be named in accordance with the *CEU MIAMI's Adept File Naming Guide* (see Appendix C).

I. PROJECT FILING STRUCTURE

All CAD Model and Sheet files, Xref files and attached or embedded files (jpg, bmp, tiff, etc.) shall be kept in one folder titled "Drawings".

J. ABBREVIATIONS

The use of abbreviations in notes and annotations is acceptable. However, if they are used, a complete list of abbreviations with their meanings shall be provided on the drawings. Separate abbreviation lists may be used for each discipline as long as none conflict. Common abbreviations shall be used throughout disciplines. Do not use different abbreviations for the same meaning.

K. DRAWING UNITS & DIMENSIONS

All discipline drawings shall be drawn and dimensioned in feet and inches, with dimensions rounded to 1/8". The exception is civil and site plans, which shall be decimals of a foot with dimensions rounded to 1/100 of a foot.

L. SYMBOLS & CONVENTIONS

The following symbols and conventions shall be utilized and provided:

1. North Arrow for every plan
2. Graphic scales for every sheet, for every scale used
3. Titles for each object or graphic drawn (e.g. floor plan, elevation, detail, section, etc.)
4. Legends to clearly define each line type, hatch pattern and symbol used
5. Location and vicinity maps shall be provided on the drawing cover/title sheet.
6. Section and detail bubble symbols shall be three-part symbols that provide: a number or letter for the section and detail, sheet number where the detail or section occurs, and at least one sheet where the detail or section is referenced from.

M. USE OF EXTERNAL REFERENCES (XRFES)

External references for site plans and floor plans shall be used to ensure that all sheets that contain the same plan are the same. Xrefed plans shall be used across disciplines (i.e. mechanical, electrical, plumbing and other similar drawings shall utilize the architectural or civil xref plans). Do not use of Xrefs for details and other drawing items that are only used on one drawing sheet. Xrefs shall not have dimensions, text and other similar annotations contained within them; they shall essentially be graphic drafting. The exception to this is that civil Xrefs that contain data populated by survey software is permitted.

Photo images and other graphics (scanned TIFF or JPEG files) may be used where appropriate. External files such as schedules, lengthy text notes, graphs, etc. shall not be used unless approved by the CEU MIAMI CAD Manager.

As-built/Record CAD DWG files: As mentioned previously, the USCG utilizes a file management and retrieval system that stores as-built/record drawing files. This system requires that each drawing be complete without the use of Xrefs. Therefore, after as-builts are complete, all Xrefs shall be "bound" into the drawing.

N. TITLEBLOCK FIELDS

Most Titleblock attribute fields are self-explanatory, but for the sake of clarifying those that are not, the following examples/guidance is provided:

Property Name:	Station building, pier/wharf, administration building, galley/dining, barracks, etc.
Unit Name:	Station XYZ, Base Support Unit XYZ, Training Center XYZ, USCG Academy, etc.
Project Title:	Use the official title of the project as provided by the CEU MIAMI Project Manager
Unit Name:	Use abbreviations for states (e.g. VA, NY, FL). Do not spell out the state names.
Project Engineer:	[leave blank]
Date Approved:	Date CEU MIAMI approved Final Drawings
Branch Chief:	
Approving Officer:	
Project Number:	Official USCG Project Number (e.g. 08-L9001, 01-3047134)
Technical Director:	
CAD Drawing Number:	Number will be provided by CEU MIAMI Design Project Manager upon request
Issue Fields:	List each submission type and date
Mark:	Number (e.g. 1, 2, 3, 4, etc.)
Date:	Date of Submission or revision (mm/dd/yyyy)
Description:	Type of submittal (e.g. 65% Design, Pre-final Design, Final Design, Revised Final Design, As-Built or Record Drawings, Misc. Revisions, etc.)

O. DRAWING REVISIONS

Revisions to drawings after Final Approval shall be clearly annotated with revision clouds and symbols, and number. Each revision number (Mark), Description and Date shall be entered into the Issue field of the titleblock.

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CRITERIA FOR ELECTRONIC DELIVERABLES

A. ACCEPTABLE DIGITAL MEDIA:

All electronic (digital) files shall be delivered on recordable compact disks (CD-R). Files shall not be compressed.

Compact Disk Requirements:

Each CD-R shall have an external label noting at a minimum, the Contractor's name, USCG project number, project title, type of submittal and date.

B. FILE FORMATS:

All files shall be saved on the CD-R in an organized manner using separate file folders for drawings, specifications, calculations, data files, permits, etc. Drawings, specifications and permit file names shall be in accordance with ***CEU MIAMI's Adept File Naming Guide*** (See Appendix C). File types shall be saved in the following formats:

Specifications	- MS WORD ".doc", and Adobe Acrobat 8 or earlier ".pdf"
Calculations and Reports	- Adobe Acrobat 8 or earlier ".pdf"
Drawings	- Autodesk ".dwg" Version 2017 or earlier and Adobe Acrobat 8 or earlier ".pdf" (all submittals)
Permit Documents	- Adobe Acrobat 8 or earlier ".pdf"
Data files, catalog cuts	- Adobe Acrobat 8 or earlier ".pdf"

C. PERMIT DOCUMENTS:

Final permit documents shall be optically scanned as individual documents.

CEU MIAMI's ADEPT File Naming

**U.S. Department of
Homeland Security**

**United States
Coast Guard**



Published by:
CEU MIAMI
Miami, Florida
July, 2018

CEU MIAMI Adept File Naming

Overview

CEU MIAMI and other Coast Guard Civil Engineering Units use a file management and electronic file data base system, known as "Adept". This system will provide many benefits to each unit and the U.S. Coast Guard as a whole, with regard to management and access to facilities electronic documents. This Guide is intended to provide a standard system for naming of the different types of electronic files related to facility engineering for Adept.

General

Electronic document names must be **unique** in order to keep Adept data properly identified. To achieve this, several things will be done. First each project is assigned unique Shore Facility Requirement List (SFRL) project number). And thirdly, unique codes and numbers will be included for each electronic file.

I AUTOCAD DRAWINGS:

A. "Sheet" File Names

The first group of numbers will be the USCG Project Number. The next characters shall be the **Discipline Sheet Number** (which shall consist of the Discipline Designator and Discipline Amplifier (Optional)), followed by **Sheet Type Designator**, **Sheet Type sequence number**, and **As-Builts Designator**.

Example:

4138942CU201.dwg

4138942	= Project Number assigned by USCG
C	= Discipline Designator (see Sheet Number below)
U	= Discipline Amplifier (Optional)
2	= Sheet Type Designator (see Sheet Type below)
0	= Facility Designator (see Sheet Number below)
1	= Sheet Type sequence number (Consecutive Number)
asb	= As-Builts
.dwg	= default AutoCAD file Extension

Discipline Sheet Numbering System

Each drawing SHEET shall be number using a **Discipline Designator**, **Sheet Type Designator**, **Facility Designator** and **Sheet Type sequential numbers**. XREF dwg files will be bound within the as-built sheet file.

Example: CU201

C	= Discipline Designator
U	= Discipline Amplifier (Optional)
2	= Sheet Type Designator (See description below)
0	= Facility Designator (See description below)
1	= Sheet Type sequential number (Consecutive beginning with 1)

Discipline Designators:

G – General
S – Structural
F - Fire Protection
T – Telecommunications

H - Hazardous Materials
A – Architectural
P – Plumbing
R - Resource

C - Civil
I – Interiors
M - Mechanical
LS-Life Safety
L – Landscape
Q – Equipment
E - Electrical
FA – Fire Alarm

Discipline Amplifier (Optional):

U-Utility **G**-Grading **D**-Demolition **E**-Erosion **S**-(civil&struc.) **W**-?
A-Attenuator **H**-hazmat seawall? **C**-Crane **T**-Temporary **F**-Float

Sheet Type Designators:

0 – General (symbols, legends)	4 – Large Scale Plans	8 - User Defined
1 – Plans	5 – Details	9 – 3D View (isometrics, photos)
2 – Elevations	6 – Schedules & Diagrams	
3 – Sections	7 – Control Sequences	

Facility Designator:

0 – General	1 – Hazmat/Mat	2 – Armory	3 – Warehouse
4 - Float			

B. XREF File Names

All X-referenced files which shall be attached to the drawing.

II. SPECIFICATIONS AND RELATED TEXT DOCUMENTS

Construction specification, permits, O&M manual or other text document file shall begin with the **USCG Project Number**. The next characters are the letter **"SP"** for Specifications. The next characters shall be the **specification section number**.

Example:

4138942SP01158.doc

4138942	= Project Number assigned by USCG
SP	= Indicates Specifications
01158	= Specification Section number
.doc, pdf	= .doc or .pdf document file extension

Photo and Graphic Files

All raster image files (e.g., jpgs, tiffs, pdfs, bmps, gifs etc) shall be embedded into the drawing.

Other Documents

The first group of numbers will be the **USCG Project**. The next three characters shall be consecutive beginning with 001 (one number for each file).

Example:

4138942xx001.xxx

4138942
001

.xxx

= Project or OpFac Number assigned by USCG
= Consecutive number or other distinguishing
factor
= applicable file extension

INDUSTRY STANDARDS FOR CONSTRUCTION DOCUMENTS

Civil Design

Drawings	
Record Submittal:	<p>The submission should include all drawings required for final design submittal plus all necessary detail sheets to complete the civil engineering portion of the project. In addition, other sheets required showing such information as profiles and cross sections for roads and ditches, profiles of sewer and drainage systems, and details of all appurtenances shall be included. The designer should review all Specifications to be used in connection with the Civil Drawings. Most of the Specifications contain design information in notes that indicate what must be shown on the drawings for proper coordination with the specifications. Some Specifications contain standard details which must be included on the drawings if they are applicable to the project.</p> <p>Drawings shall be fully coordinated with the other disciplines and the specifications. Indicate LEED items that the Contractor is expected to achieve and a narrative to achieve that point or points.</p>
Location Plan:	<p>Show project location in relation to MAJOR landmarks or features of the installation. Also show the proximity to related facilities which influence project operations. Use insets with an overall view of the station to show widely separated but related facilities. The General Location Plan shall include as much of the activity as necessary to convey meaningful information to someone who has not visited the facility. Show haul routes, borrow areas, disposal areas, laydown and storage areas and plant sites. This drawing may also serve as a cover sheet and should include a vicinity map. An Index of Drawings is required and may be shown on this drawing.</p>
Existing Site and Demolition Plan and Detail Drawings:	<p>Show the following:</p> <ol style="list-style-type: none"> All items to be demolished clearly shown Limits of removal Complete description of items to be removed Details, where necessary, of items to be removed Depth and dimension of affected pipelines and foundations Preloading of site Storage areas for materials to be removed
Site Plan and Detail Drawings:	<p>Show the following:</p> <ol style="list-style-type: none"> Site datum All necessary layout dimensions Street profiles Pavement sections and joint layout and details Handicapped provisions details Parking and other pavement markings Curb and gutter details Walk details Equipment pads Temporary facilities, locations and services Pavement repair details (i.e. utility crossings) Guard post details Fencing and gates location and details including security barriers for openings beneath fences and gates Wheel stop details Construction limits (if critical) All existing aboveground features which are not to be demolished Street sign details LEED points to be achieved by this discipline

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Grading and Storm Drainage Plans and Detail Drawings:	<p>Show the following:</p> <ul style="list-style-type: none"> a. Existing and finish contours b. Existing and finish spot elevations c. Ditch profiles and sections d. Erosion protection e. Storm drainage piping layout, new and existing including security barriers f. Storm drainage structure details including security barriers g. Slopes and inverts of all pipes and profiles where necessary h. Inverts and top elevations of all structures i. Frames, grates and covers details j. Class or gauge of pipe k. Clearing and grubbing limits l. Grassing limits m. Benchmark information n. SWM details
Utility Plans and Detail Drawings:	<p>Show the following:</p> <ul style="list-style-type: none"> a. Overall layout of systems, showing line sizes b. New and existing systems shown c. Valve and fire hydrant locations d. Trench details showing bedding, backfill and utility warning tape e. Sizes of all components of systems indicated f. Building services coordinated with building plumbing drawings g. Separation of water and sewer lines h. Back-flow preventers i. Manhole spacing and details (including top and invert elevations) j. Clean-out location k. Pipeline profiles (gravity sewers normally, plus force main when required by State Permitting Agency) l. Manhole, frames and cover details m. Pump station location and details n. Air release valves location and details o. Locations coordinated with existing and other utilities p. Areas of hazardous material abatements
Calculations	
Design Calculations:	Revise the Schematic calculations and supplement as required for 100% design. Submit in same format as for Schematic submittal.
Computer outputs:	Shall be identified similar to the calculations and may be referenced as an appendix or attachment

Architectural Design

Drawings	
Record Submittal:	The submission should include all drawings required for the final design submittal plus all necessary detail sheets to complete the architectural portion of the project. Drawings shall be fully coordinated with the other disciplines and the specifications.
Architectural Floor Plans:	<p>Floor Plans Showing:</p> <ol style="list-style-type: none"> Complete dimensions. Spaces labeled with doors and windows numbered and door swings indicated. Enlarged plans/elevations/sections and details cross referenced per MIL-HDBK-1006/1 Reference Symbol guidance. Wall and partition thickness, secure area partition type, partitions that extend to overhead structure, fire and acoustical rated partitions (show rating). Reference symbols for each related section/detail. Water coolers, janitor sinks, floor drains, fire extinguisher cabinets, access ladders and hatches, "walk-off" mats in exterior entrances, public phones, signage directories, and built-in shelving and equipment. Wall and floor expansion/crack control joints. Boundaries of floor finish material changes and floor level transitions. Ramps, steps, and stairs. Necessary notes and schedules (use Key Notes for labels where practical). Key Plans when an entire floor is not shown on a single sheet. Exterior Elevation reference symbols may be shown on Key Plan. Clear designation between new and existing work. Limits of demolition and hazardous material removal. LEED points to be achieved by this discipline
Reflected Ceiling Plans:	<p>Reflected Ceiling Plans at same scale as floor plans showing:</p> <ol style="list-style-type: none"> All ceiling types (identified by note or legend) and acoustical ceiling tile grid(s). Junctions of different ceiling finishes and ceiling level changes. All partitions with fire walls and security/acoustical partitions which extend to structure above noted. HVAC diffusers and returns. Light fixtures. Access Panels. Ceiling mounted signage. All required notes.
Roof Plans:	<p>Roof Plans showing:</p> <ol style="list-style-type: none"> Roof layout with all pertinent dimensions. Parapet walls, expansion joints, crickets, overflow scuppers, roof drains, gutters, and downspouts. Direction of roof slope and amount of slope (minimum 1/2" per foot desired). All valleys shall have positive slope. All roof mounted equipment (coordinated with structural, mechanical, and electrical drawings). Mount air terminals (lighting rods) on parapet terminals. All roof penetrations, vents, exhausts, skylights, monitors, and access hatches. Reference symbols for wall sections, building sections, and details. All necessary notes.

Enlarged Floor Plans:	<p>Enlarged Floor Plans showing:</p> <ol style="list-style-type: none"> Enlarged toilet plans at $1/2" = 1'-0"$ with toilet fixtures (handicapped accessible and regular types) and toilet accessories labeled and special handicapped access clearances indicated. Kitchen layout with dimensions and equipment. Stairs with runs and widths, landings, and railings dimensioned. All necessary notes.
Architectural Elevations:	<p>Architectural Elevations showing:</p> <ol style="list-style-type: none"> All sides of building with vertical dimensions and floor level elevations. All finish materials and special requirements labeled. Expansion and crack control joints. Exterior doors. Windows with operating sash indicated. Exhaust fans, louvers, and grills. Gutters, downspouts, splash blocks, and overflow scuppers. Roof mounted equipment, exhaust stacks, and antennas. Reference symbols for section and detail cuts. All necessary notes.
Building Sections:	<p>Building Sections (same scale as Architectural Floor Plans, when practical) showing:</p> <ol style="list-style-type: none"> Floor, wall, partition, ceiling, and roof information for a minimum of one transverse and one cross section through entire building. Reference symbols for section and detail cuts. Doors, windows, finish materials, expansion joints, casework, toilet partitions, ladders, and signage. Lighting, HVAC registers and returns, built-in equipment
Interior Elevations:	<p>Interior Elevations/Sections showing:</p> <ol style="list-style-type: none"> Toilets with fixtures, vanities, partitions, finishes, and accessories with labels and reference symbols. Kitchen/food preparation area with equipment outlined, electrical outlets and switches at proper heights, fire extinguishers, alarm bells/horns, and HVAC equipment and registers/ returns. Janitor closets with shelving, wall hooks, and built-in equipment. Stairs with dimensioned railings, treads, risers, nosings, and framing.
Wall Sections, Sections, and Details showing:	<p>Wall Sections, Sections, and Details showing:</p> <ol style="list-style-type: none"> All sections and details (including flashing, drip moldings, weepholes, vents, etc.) necessary for construction. Sections at minimum scale of $3/4" = 1'-0"$. Isometric details for each roof flashing condition at minimum scale of $3" = 1'-0"$ and with all applicable notes. Isometric detail of scuppers showing all flanges. Joint covers for metal coping covers and gravel stops. Roof crickets. Wall and roof insulation with "R-values". Door and window frame "head, jamb, and sill" details. Also astragals, weatherstripping, thresholds, floor level changes (such as at entrances), and physical security features. Toilet partition, shower pan, floor/roof/ balcony drains, and waterproofing details. Expansion joints, crack control joints for stucco/brick/cmu/concrete/ceramic tile/plaster, and joints between different finish materials. Stair/balcony railings and mounting brackets, wall-mounted doorstop bracing, vanity bracing, locker/ weapons rack mounts, curtain wall/ large window protective railings, and partition corner/corridor wall bumpers. Signage construction and method of mounting. Necessary notes. Titles referenced by Reference Symbol convention to Plans, Elevations, and Building Sections.

Schedules:	Schedules showing: <ul style="list-style-type: none">a. Doors and frames with fire and acoustical rating, physical security feature notes, and detail reference numbers.b. Windows with frame material, glazing type, fire and acoustical rating, physical security feature notes, and detail reference numbers.c. Louvers with frame, vane operation, fire rating, physical security feature notes, and detail reference numbers.d. Interior finish materials for floor, base, walls, wainscot and ceiling with ceiling height. built-in cabinet finishes, window blinds, toilet partitions, bulletin boards and any other visible item attached to the building interior. Finishes for Systems Furniture shall be included. Also include exterior finish materials and color.e. Signage with frame, mounting, letter style and height, finish, color, text, and location information.f. Equipment.
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Structural Design

Drawings	
Record Submittal:	The submission should include all drawings required for the final design submittal plus all necessary detail sheets to complete the structural portion of the project. Drawings shall be fully coordinated with the other disciplines and the specifications.
General Conditions:	<p>Show the following:</p> <ol style="list-style-type: none"> Design criteria for loads, materials, and references, General notes for the project, Material notes such as structural steel, concrete, masonry, etc., Bid information such as pile/caisson lengths, Special load test requirements, Special inspections requirements Other information/instructions to contractor, Abbreviations and symbols used for structural drawings.
Foundation Plan:	<p>Show the following:</p> <ol style="list-style-type: none"> Layout of foundation support systems showing all dimensions and elevations necessary for construction, Size or schedule references for all foundation features such as footings, grade beams, piles, caissons, pile/caisson caps, etc., Control/expansion joints in floor slab and foundation walls, Trenches, pits, openings, depressed/ thickened slabs, Test pile/caisson location, Special construction features - de-watering, excavation, bracing, under-pinning, etc., Special construction sequencing, Existing site conditions/features, North arrow (orient plans so that north is to the top or left of the sheet), Graphic scales.
Framing Plans	<p>Show the following:</p> <ol style="list-style-type: none"> Layout of horizontal framing elements showing all dimensions, orientation and elevations necessary for construction – Elevations shall be referenced to some finished datum such as top of steel, slab, finished floor, concrete, etc. Size or schedule references for all horizontal framing elements such as beams, joists, slabs, decks, grating, etc., Slab control/expansion joints, Openings requiring special framing or reinforcing, Location of splices, brackets, penetrations, sleeves, embedments, bracing, weldments, etc., Special temporary bracing, shoring or forming, Other special requirements, such as equipment clearances, travel distances for hoists and cranes, etc., North arrow (orient plans so that north is to the top or left of the sheet), Graphic scales.

Elevations	<p>Show the following:</p> <ol style="list-style-type: none"> Layout of vertical framing elements showing all dimensions, orientations and elevations necessary for construction – reference elevations shall be consistent with framing plans. Size or schedule references for all vertical framing elements such as column, walls, piers, beams, bracing, etc., Wall control/expansion joints, Openings requiring special framing or reinforcing Location of splices, brackets, penetrations, sleeves, embedments, bracing, weldments, etc., Special temporary bracing, shoring or forming, Other special requirements such as equipment, clearances, travel distances for hoists and cranes, etc., Graphic scales.
Sections and Details:	<ol style="list-style-type: none"> Layout of all sections and details showing all parts, shapes, sizes, materials, dimensions, elevations, arrangement and orientation necessary for construction, Standard connections or schedule references for forces, fasteners, welds, plates, clips, ties stirrups, pins, etc., All special connections completely detailed to a point where no further engineering is necessary, Concrete/masonry wall reinforcement details showing size, clearances, placement, shape, etc., Lintel details or schedule references for loads, sizes, materials, arrangement, etc., Anchor bolts, base plates, bearing plates, or schedule reference for materials, size, thickness, welds, embedments, threaded parts, projections, etc., Diaphragm deck type, gauge, yield strength, minimum number of spans or length, fastener type and pattern, Applicable special notes and instructions, Graphic scales.
Structural Notes and Schedules:	<ol style="list-style-type: none"> Provide all information/instructions for fabrications, forming, placement, erection, installation, etc. necessary for construction. Schedules for beams, lintels, joist, trusses, frames, piles, caissons, footings, pile/caisson caps, grade beams, slabs, etc. Calculated column loads, beam shear/reaction and moments, footing pressures, pile/caisson capacities/loads (vertical and horizontal) etc. Special instructions, materials, process, etc.
Other Drawings:	<ol style="list-style-type: none"> Layout of structural systems for special fabrications and construction such as space trusses/frames, long span trusses, Vierendeel trusses, shells, towers, etc. Temporary structures to be dismantled/relocated

Calculations	
Calculations:	<p>Calculations shall include the analysis and design of all (major cost contributing elements) beams, columns, walls, foundations, slabs, bracing, diaphragms, equipment supports, etc. and the connections to each other to provide a safe, stable, efficient and cost effective structural system. An adequate number of sketches with sufficient detail to make the designers intentions clear, concise and easily understandable shall be provided. All assumptions and references to codes, standards, criteria, drawings and computer outputs shall be noted as necessary.</p>

Mechanical Design

Drawings	
Submittal:	The submission should include all drawings required for the final design submittal plus all necessary detail sheets to complete the mechanical portion of the project. Drawings shall be fully coordinated with the other disciplines and the specifications.
General:	Mechanical floor plans shall be not less than 1/8"=1'-0". Floor plan scales of 1/4"=1'-0" should be considered when the complexity of the work results in overcrowding of the drawings, such as in mechanical room layout and in the design of hospitals.
Drawings:	<ol style="list-style-type: none"> a. HVAC Floor Plans showing the location of major equipment and ductwork. All ductwork shall be shown double line, to scale. b. Plumbing Floor Plans showing potable water, DWV, compressed air, etc. c. HVAC and plumbing riser diagrams. d. HVAC and plumbing equipment schedules, showing sizes of major equipment. e. HVAC Design Conditions Schedule including tolerances of inside temperatures and relative humidities. f. Basic HVAC control diagrams and written sequence of control. g. Site layout showing points of utility connections, including sewer invert elevations at the five foot line. h. Exterior piping including chilled/hot water, condenser water, plumbing/ sanitary, steam, fuel, compressed air and gas piping, etc. i. Equipment locations. j. Fuel storage general arrangement. k. Roof Plans showing locations of equipment and ductwork l. Large Scale Plans as need to show congested areas m. Sections, elevations and details as required for MEP coordination n. Control Diagrams and written sequence of control o. Legends p. HVAC equipment and Plumbing Fixture Schedules q. Notes r. Design Conditions s. LEED points to be achieved by this discipline

Calculations	
General:	Corrected to include all previous submittal review comments and/or a clear statement why the review comment was not complied with.

Fire Protection Design

Drawings	
Submittal:	The submission should include all drawings required for the final design submittal plus all necessary detail sheets to complete the fire protection portion of the project. Drawings shall be fully coordinated with the other disciplines and the specifications.
Civil Drawings:	<ul style="list-style-type: none"> a. Show all new and existing water piping including sizes. b. Show new and existing valve and fire hydrant locations ensuring conformance with MIL-HDBK-1008-B. c. New valve and fire hydrants shall require an installation detail complete with guard posts. d. Show the water line supplying the sprinkler riser with the connection into the building. e. Show the location of any required fire pump or water storage tank.
Architectural Drawings:	<ul style="list-style-type: none"> a. Clearly show with details the location and rating of smoke and firewalls. Clearly indicate the specific hourly fire rating. b. A detail of the fire and smoke wall construction must be provided along with the particular Underwriters' Laboratories listing obtained from the latest edition of the U.L. Fire Resistance Directory. c. Provide details of any fire wall penetration for each type of wall construction, as outlined in the U.L. Building Materials Directory. d. Detail type and size of fire extinguisher to be provided. Base Fire Department should be contacted for further information. e. Provide the class and hour rating of fire doors on the door schedule.
Mechanical Drawings:	<ul style="list-style-type: none"> a. The location of sprinkler riser must be shown on the plumbing floor plan with a detail of the sprinkler riser also provided. (Note: Sprinkler piping layout is not shown) b. Show any CO₂ banks or clean agent tanks with a detail of the areas protected and a riser diagram. c. Show the location of smoke and fire dampers with a detail. d. Provide the physical layout of the fire pump and associated piping. e. Show, on the HVAC Drawings, any required duct mounted smoke detectors and intertie to shut down system when an alarm is triggered. f. Provide a fire stopping detail for penetrations of firewalls with reference.

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Mechanical Drawings:	<ol style="list-style-type: none">The existing base wide fire alarm system must be determined. If an exterior master box is required, the location must be shown. A detail of the master box pedestal must also be provided.All fire alarm and suppression devices, including control panel, manual pull stations, automatic detectors, extinguishing system pressure switches, and audible devices, shall be located on an electrical floor plan.A fire alarm riser and suppression system diagram showing the interconnection of all fire alarm equipment is required. Ensure the power supply and point of connection to base wide fire alarm is shown. (Note: Source of power to fire alarm control panel shall be taken prior to the main power disconnect.)Emergency lighting locations shall be provided on the electrical floor plan with a detail of each type of emergency light fixture provided.The fire alarm zone, suppression, and annunciation schedule shall be detailed. Complex fire alarm systems such as jet engine test cells and hush houses, aircraft hangars, etc. shall require a chart detailing a sequence of operations.Fire stop details of electrical penetrations of fire wall with a note referring to the appropriate architectural sheet for fire wall location.
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Calculations	
General	Provide corrections to comments on previously reviewed calculations.

Electrical and Telecommunications Design

Drawings

Submittal:	The submission should include all drawings required for the final design submittal plus all necessary detail sheets to fully present the scope of the electrical work required for the project. Drawings shall be fully coordinated with the other disciplines and the specifications.
Existing Site and Demolition Plan:	This drawing shall include all existing site information such as buildings, pavements and utilities that affect the demolition of the electrical portions of the project. The specifications should indicate the disposition of demolished materials and equipment. The limits of demolition must be clearly defined, i.e., if a portion of overhead line is to be removed, provide a detail showing how the remaining portion is to be terminated.
Site Plan and Details:	This drawing shall show all new and existing aboveground and underground features such as buildings, pavements and utilities that affect or interface with the electrical portions of the project. As a minimum the following information shall be shown: <ul style="list-style-type: none"> a. Primary and secondary electrical lines b. Fire alarm and communications lines c. Transformer or substation (located by dimensions from the building or other prominent feature) d. Streets, parking area and other flood lighting e. All other exterior electrical equipment, such as M.G. sets, A/C units, etc. f. In congested areas a profile of duct lines may be required. g. Site details (light pole bases, transformers pads, trench details) h. LEED points to be obtained by this discipline
Lighting Plans and Details:	These drawings shall show the building's full floor plan (first, second, etc.) with the location and number of lighting fixtures, including the type and size of wiring serving these fixtures. Provide details of all lighting fixtures used, including mounting height and support details. Emergency, exit, and security lighting shall be included where required. Seismic restraint of fixtures shall be shown where required.
Power Plans and Details:	These drawings shall show a building's full floor plan (first, second, etc.) as well as any large-scale plans necessary to prevent overcrowding. The power plans should show the location of receptacles and electrical equipment and the type, size and location of wiring required throughout the facility.
Riser Diagrams:	All of the following: <ul style="list-style-type: none"> a. Power - Single Line Diagram b. Communications Plan c. Telephone Riser Diagram d. Computer network riser diagram and plan e. Other Riser Diagrams for Television, Paging, IDS, etc. f. Panel Schedules g. Switchboards and Motor Control Center Schedules h. Lighting Fixture Details

Calculations

General:	Corrected to include all previous submittal review comments or a clear statement why the review comment was not complied with.
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