



Issue Date: August 5, 2025

ATTN: Vendors

RE: **Project Name:** CC - 57226 Barracks Remodel
 Project Number: 02A7823017
 Project Location(s): Camp Carroll, Joint Base Elmendorf-Richardson, Alaska

Mandatory Return Addendum # One (1)

This addendum forms a part of the contract documents and modifies the original drawings and/or specifications for the subject work. In case of conflicts between this addendum and previously issued documents, this addendum shall take precedence. This addendum WILL be submitted with the contractors bid package.

The following administrative changes have been made to this ITB:

1. This addendum is being issued to correct incorrect labeling for the following documents:
 - EEO-1 Certification (25A-304, pg. 31 of the ITB) – VETERNAS was corrected to VETERANS
 - CONTACT REPORT (25A-321A, pg. 32 of the ITB) – VETERNAS was corrected to VETERANS; signature block at bottom of page was corrected from *DOT&PF Reviewer* to *DMVA Reviewer*
 - PRIME CONTRACTOR'S WRITTEN DBE COMMITMENT (25A-326, pg. 34 of the ITB) – DOT&PF logo updated to SOA logo
 - SUMMARY OF GOOD FAITH EFFORT DOCUMENTATION (25A-332A, pg. 35 of the ITB) – DOT&PF logo updated to SOA logo
 - BUY AMERICAN REQUEST FOR TYPE 3 WAIVER (25D-153, pg. 37 of the ITB) – DOT&PF logo updated to SOA logo; FAA references were removed
 - Buy American Percentage (25D-155, pg. 39 of the ITB) – FAA references were removed
 - Buy American Preferences – Final Assembly Questionnaire (25D-156, pg. 40 of the ITB) – FAA references were removed and updated to reflect DMVA
 - CERTIFICATION OF OFFEROR/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS (25D-159, pg. 41 of the ITB) – DOT&PF logo updated to SOA logo; FAA references were removed and updated to reflect DMVA
 - BUY AMERICAN CERTIFICATE (25D-61, pg. 48 of the ITB) – FAA references were removed and updated to reflect DMVA
 - CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY (25D-151, pg. 51 and 52 of the ITB) - FAA references were removed and updated to reflect DMVA
 - Certificate of Buy American Compliance for Manufactured Products (25D-152, pg. 53 and 54 of the ITB) - FAA references were removed and updated to reflect DMVA
 - DOCUMENT 00700 (pg. 66 of the ITB) – Header updated to reflect Department of Military and Veterans Affairs
 - DEPARTMENT (pg. 72 of the ITB) – Section updated to reflect Department of Military and Veterans Affairs



2. This addendum is being issued to reschedule the walkthrough date from Monday August 18, 2025 to Tuesday August 19, 2025 at 10:00am Alaska Time.

Questions and Answers:

1. Can any available as-builts be provided for this project in both PDF & CAD?
A. We do not have CAD as-builts available. Please see attached .pdf as-builts.
2. Can you tell me if there will be a need for new furnishings for these barracks remodel projects? If so, will that be part of this ITB or will it be procured under a separate contract?
A. No, contractor shall remove, store and reinstall existing furniture once the project has been completed.
3. This is a good time to mention that these two ITBs appear to be missing the Disadvantaged Business Enterprise form 25A-325C.
A. This has been noted. As stated on page 21 of the ITB, Preferences WILL NOT be used in this solicitation as it is one hundred percent (100%) federally funded and thus the form will not be provided as it is not applicable under this solicitation.
4. How do we register for the walkthrough as it is on base? What is the procedure?
A. Interested bidders shall provide the project manager with the first and last name of the individual(s) attending the pre-bid walkthrough no later than 48 hours before the walkthrough. Bidders will be required to pick up their passes at the FT Rich Visitor Center on August 19, 2025. The Visitor Center is open between 9:00am and 4:30pm.
(please note: each company interested in the walkthrough shall be limited to 3 participants due to the number of passes allowed to be issued at any given time)

Please contact me if you have any questions.

Sincerely,

Gavin M. Fairbanks
Building Management Specialist
(907) 428-7187

Name of Company: _____

Signature: _____

Date: _____

End of Addendum



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

EEO-1 CERTIFICATION
Federal-Aid Contracts

CC - 57226 Barracks Remodel
02A7823017

This certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor [41 CFR 60-1.7 (b) (1)] and must be completed by the successful Bidder and each proposed Subcontractor participating in this contract.

PLEASE CHECK APPROPRIATE BOXES

The ☐ Bidder ☐ Proposed Subcontractor hereby CERTIFIES:

PART A. Bidders and proposed Subcontractors with 50 or more year-round employees and a federal contract amounting to \$50,000 or more are required to submit one federal Standard Report Form 100 during each year that the two conditions exist (50 employees and a \$50,000 federal contract).

The company named below (Part C) is exempt from the requirements of submitting the Standard Report Form 100 this year.

[] NO (go to PART B)

[] YES (go to PART C)

Instructions and blank Standard Report Form 100 may be obtained by contacting:

EEOC - Surveys Division
131 M Street, NE - Room 4SW22G
Washington, D.C. 20507
Telephone number: (877)392-4647 or (866)286-6440

PART B. The company named below has submitted the Standard Report Form 100 this year.

[] NO

[] YES

Note: Bidders and proposed Subcontractors who have not filed the required Standard Report Form 100 and are not exempt from filing requirements will not be awarded this contract or subcontract until Form 100 has been filed for the current year ending June 30.

PART C.

Signature of Authorized Company Representative

Title

Company Name

Company Address (Street or PO Box, City, State, Zip)

Date

()

Phone Number



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

CONTACT REPORT

Federal-Aid Contracts
CC - 57226 Barracks Remodel

02A7823017

Project Name and Number

Specific Work or Materials (by pay Item): _____

DBE Firm Contacted:

Name Address () Phone Number

A. INITIAL CONTACT: (See important contact information on instruction sheet)

Method:

1. Date _____ ☐ Phone ☐ Publication ☒ Email ☐ FAX ☐ Other

2. Person _____
Contacted _____
Name Title

3. DBE's Response: Date: _____ Method: ☐ Phone ☐ Email ☐ FAX ☐ Other

☐ Submitted an acceptable sub-bid. (If sub-bid accepted, skip to Section D)

☐ Not interested: Indicate Reason(s) _____

☐ Needs more information: Date Prime provided requested information _____

☐ Will provide quote by: Date _____

☐ Received unacceptable sub-bid (complete Section C)

B. FOLLOW-UP CONTACT:

Method:

1. Date _____ ☐ Phone ☐ Publication ☐ Email ☐ FAX ☐ Other

2. Person _____
Contacted _____
Name Title

3. DBE's Response: Date: _____ Method: ☐ Phone ☐ Email ☐ FAX ☐ Other

☐ Submitted an acceptable sub-bid. (If sub-bid accepted, skip to Section D)

☐ Received unacceptable sub-bid (complete Section C)

☐ Other result: _____

C. EXPLANATION OF FAILURE TO ACHIEVE AN ACCEPTABLE SUB-BID:

1. Were the following required efforts made?

a. ☐ Yes ☐ No Identified specific items of work, products, materials, etc. when asking for quote(s).

b. ☐ Yes ☐ No Offered assistance in acquiring necessary bonding, insurance, and business development related assistance.

c. ☐ Yes ☐ No Provided all appropriate information concerning the specific work items or materials.

2. Was the DBE's quote non-competitive? ☐ Yes ☐ No

3. Was the DBE unable to perform in some capacity? ☐ Yes ☐ No If "Yes", explain: _____

D. CERTIFICATION: I certify that the information provided above is accurate and that efforts to solicit sub-bids were made in good faith.

Signature of Company Representative

Title

Date

Name of DMVA Reviewer

Title

Date



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
Civil Rights Office – DBE Program

PRIME CONTRACTOR'S WRITTEN DBE COMMITMENT

Federal-Aid Contracts

CC - 57226 Barracks Remodel

02A7823017

Project Name and Number

All firms bidding on Alaska Department of Military and Veterans Affairs projects must have a written commitment from each DBE firm to be subcontracted. Please complete this form for each DBE firm and submit to the DMVA Compliance Officer.

If you have any questions, please call (907) 428-7187.

Name of DBE Firm: _____

Street Address: _____

Mailing Address: _____ City: _____

State: _____ Zip Code: _____

Telephone Number: _____ Fax number: _____

Description of the work that DBE firm will perform: _____

Please provide additional information on a separate sheet of paper.

The dollar amount of participation by the DBE firm: \$ _____

Signatures of Authorized representatives of the Prime Contractor and the DBE firm below represent the written commitment by the Prime Contractor to subcontract with the DBE firm as described above and a written commitment by the DBE firm to subcontract for the work described above:

Prime Contractor Signature

Date

DBE Firm Signature

Date

Prime Contractor Firm:

Address:

Telephone Number: _____ Fax number: _____



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

SUMMARY OF GOOD FAITH EFFORT DOCUMENTATION

Federal-Aid Contracts

CC - 57226 Barracks Remodel

02A7823017

Project Name and Number

Contractor: _____

List all items considered for DBE utilization. GFE requires at a minimum that the Contractor consider all items identified on Form 25A-324.

a. MATERIAL OR SPECIFIC ITEM OF WORK (SPECIFY PAY ITEM)	b. ACCEPTABLE DBE QUOTE RECEIVED ¹	c. # OF DBEs CONTACTED IN DBE DIRECTORY	d. # OF DBEs THAT RESPONDED ²	e. # OF DBE QUOTES RECEIVED
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
1. Check if acceptable DBE quote was received (if so, skip c, d, and e) 2. Attach completed Contact Reports, Form 25A-321A				

LIST ADDITIONAL ITEMS ON REVERSE SIDE

a. MATERIAL OR SPECIFIC ITEM OF WORK (SPECIFY PAY ITEM)	b. ACCEPTABLE DBE QUOTE RECEIVED ¹	c. # OF DBEs CONTACTED IN DBE DIRECTORY	d. # OF DBEs THAT RESPONDED ²	e. # OF DBE QUOTES RECEIVED
9.				
10.				
11.				
12.				
13.				
14.				
15.				

1. Check if acceptable DBE quote was received (if so, skip c, d, and e)

2. Attach completed Contact Reports, Form 25A-321A

Comments:



BUY AMERICAN REQUEST FOR TYPE 3 WAIVER

Federal-Aid Contracts

Project Name and Number:

CC - 57226 Barracks Remodel

02A7823017

TYPE 3 WAIVER			
LIST MATERIAL OR EQUIPMENT	COST OF U.S. STEEL AND MANUFACTURED GOODS (US)	COST OF NON- DOMESTIC STEEL OR MANUFACTURED GOODS (NON)	COST OF US STEEL OR GOODS DIVIDED BY TOTAL COST, WRITTEN AS A PERCENTAGE $US/(US+NON) \times (100) \%$

I certify under penalty of law that all steel and manufactured goods furnished for this project are produced in the United States, and comply with the requirements of 49 USC § 50101 and Contract subsection GCP 60-09 Buy American Preference; except for those steel and manufactured goods that are listed on this Request for Waiver. I understand that if Department of Military and veterans Affairs (DMVA) does not approve this Request for Waiver, I agree to fully comply with the requirements of 49 USC § 50101.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date

Signature

Company Name

Title

Form Instructions:

1. Select Type 3 Waiver to request waiver of 100% Buy American Preferences if the cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components of the facility or equipment, and final assembly of the facility or equipment has occurred in the United States.
 - a. List all product components and subcomponents that are not comprised of 100% US domestic content (Exclude products listed on the DMVA Nationwide Buy American Waivers Issued listing and products excepted by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
 - b. Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture (Department Form 25D-155).
 - c. Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture (Department and Form 25D-156).
2. All waiver requests must be submitted to DMVA within 5 working days after date of notification of apparent low bidder, or as directed by the Contracting Officer.

Buy American Percentage

Company

Point of Contact
(Provide name,
address,
telephone, fax, e-
mail)

Date:

PRODUCT STRUCTURE

Multi-Level Bill of Materials

through level 2 only

Item:
DMVA Item Number

Address of Final Assembly Location:

Total Material Cost	
US Content, %	
Other, %	

[illegible]

Level Descriptions: Level 0 is the final product, Level 1 are components, and Level 2 are sub-components.

* Items Listed in Federal Acquisition Regulation Part 25.104 may be counted as US Origin, however should include note stating that item is exempt in 25.104

Buy American Preferences - Final Assembly Questionnaire

Federal-Aid Contracts

To assist the Department of Military and Veterans Affairs (DMVA) in making the determination of whether final assembly of the product occurs in the United States, please complete and submit this questionnaire when requesting a Buy American Waiver under 49 U.S.C. 50101(b)(3)(A).

1. Describe the assembly process occurring at the specified final location in the United States.

Please describe the final assembly process and its various operations.

How long does the final assembly process take to complete?

2. Describe the resources used to conduct the assembly of the product at the specified location in the United States.

How many employees are involved in the final assembly process and what is the general skill level of those employees?

What type of equipment is used during the final assembly process?

What is a rough estimate of the associated cost to conduct final assembly of the product at the specified location in the United States?



**STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS**

**CERTIFICATION OF OFFERER/BIDDER REGARDING TAX DELINQUENCY AND
FELONY CONVICTIONS**

Region

Project Name: CC - 57226 Barracks Remodel

As a condition of bid responsiveness on Federal funded projects, the bidder must complete, sign, date, and submit this certification statement with their proposal. As a condition of approval of Subcontracts on Federal funded projects, the Subcontractor or Lower Tier Subcontractor must complete, sign, and date the certification statements and the Contractor must submit the certifications with the subcontracts for approval.

The Applicant must complete the following two certification statements. **The Applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (✓) in the space following the applicable response.** If the Contract is awarded, the Applicant agrees it will incorporate this provision for certification in all subcontracts and lower tier subcontracts.

Certifications

- a) The Applicant represents that it is ☐ is not ☐ a corporation that has any Federal Tax Delinquency, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.
- b) The Applicant represents that it is ☐ is not ☐ a corporation that has a Felony Conviction under any Federal law within the preceding 24 months.

Note

If an Applicant responds in the affirmative to either of the above representations, the Applicant is ineligible to receive an award (or a proposed subcontract award, as applicable) unless the Department has received notification from the DMVA suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The applicant therefore must provide information to the Department about its tax liability or conviction to the Department.

Definitions

Applicant: The Bidder before award of contract. The Contractor, Subcontractor, and Lower Tier Subcontractor after award.

Suspension and Debarment Official (SDO): An official in the DMVA Office that has authority to determine whether an Applicant is suspended or debarred from performing the federally funded work.

Felony conviction: Felony conviction means a conviction within the preceding twenty four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Department of Military and Veterans Affairs and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

BUY AMERICAN CERTIFICATE

Federal-Aid Contracts

CC - 57226 Barracks Remodel

02A7823017

By submitting a bid under this solicitation, except for those items listed by the offeror below or on a separate and clearly identified attachment, the offeror certifies that steel and each manufactured product is produced in the United States (as defined in Subsection 60-09, Buy American Steel and Manufactured Products for Construction Contracts) and that components of unknown origin are considered to have been produced or manufactured outside the United States.

Attach manufacturer's mill test reports with the Buy American Certification signed by the manufacturer.

Articles, materials, and supplies excepted from this provision are listed on the reverse of this form.

PRODUCT ¹	COUNTRY OF ORIGIN

Contractor

Signature of Contractor's Representative

Date

1. Enter "NONE" on the first line if there are no exceptions.



**STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS**

CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY

CC - 57226 Barracks Remodel

02A7823017

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with its proposal. The bidder or offeror must indicate how it intends to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive.

Bidder must select one or the other (i.e. not both) by inserting a checkmark (✓) or the letter "X".

☐ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States;
- b) Installing manufactured products for which the Department of Military and Veterans Affairs has issued a waiver as indicated by inclusion on the current DMVA Nationwide Buy American Waivers Issued listing; or
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- d) To provide to the Department evidence that documents the source and origin of the steel and manufactured product (accompanied by Department Form 25D-154).
- e) To faithfully comply with providing U.S. domestic products.
- f) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the DMVA determines justified.

☐ The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for a Type 3 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- a) To submit to the Department within 5 working days after date of notification of apparent low bidder, a formal waiver request (using Department Form 25D-153) and required documentation that supports the type of waiver being requested.
- b) That failure to submit the required documentation within the specified timeframe is cause for a nonresponsible determination that may result in rejection of the proposal.
- c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the DMVA.
- d) To furnish U.S. domestic product for any waiver request that the DMVA rejects.
- e) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the DMVA determines justified.

Required Documentation

Type 3 Waiver - The cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the “facility”. Use Department Forms 25D-153, 25D-155 and 25D-156 to summarize product data. The required documentation for a Type 3 waiver is:

- a) Listing of all manufactured products that are not comprised of 100 percent U.S. domestic content (excludes products listed on the DMVA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- c) Percentage of non-domestic component and subcomponent cost as compared to total “facility” component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

False Statements: Per USC § 47126, this certification concerns a matter within the jurisdiction of the Department of Military and Veterans Affairs and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title



**STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS**

Certificate of Buy American Compliance for Manufactured Products

CC - 57226 Barracks Remodel

02A7823017

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark (✓) or the letter "X".

- ☐ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:
- a) Only installing steel and manufactured products produced in the United States;
 - b) Installing manufactured products for which the Department of Military and Veterans Affairs has issued a waiver as indicated by inclusion on the current DMVA Nationwide Buy American Waivers Issued listing; or
 - c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- d) To provide to the Department evidence that documents the source and origin of the steel and manufactured product (accompanied by Department Form 25D-154);
 - e) To faithfully comply with providing U.S. domestic product;
 - f) To furnish U.S. domestic product for any waiver request that the DMVA rejects; and
 - g) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the DMVA determines justified.
- ☐ The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for a Type 3 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:
- a) To submit to the Department within 5 working days after date of notification of apparent low bidder, a formal waiver request (using Department Form 25D-153) and required documentation that supports the type of waiver being requested.
 - b) That failure to submit the required documentation within the specified timeframe is cause for a nonresponsible determination that may result in rejection of the proposal.
 - c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the DMVA.
 - d) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the DMVA determines justified.

Required Documentation

Type 3 Waiver - The cost of the item components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the “item”. Use Department Forms 25D-153, 25D-155 and 25D-156 to summarize product data. The required documentation for a Type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100 percent U.S. domestic content (Excludes products listed on the DMVA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total “item” component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

False Statements: Per USC § 47126, this certification concerns a matter within the jurisdiction of the Department of Military and Veterans Affairs and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title

**STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
DOCUMENT 00700 - ISSUED DECEMBER 2011**

GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT FOR BUILDINGS

ARTICLE 1 - DEFINITIONS

ARTICLE 2 - AUTHORITIES AND LIMITATIONS

- 2.1 Authorities and Limitations
- 2.2 Evaluations by Contracting Officer
- 2.3 Means and Methods
- 2.4 Visits to Site

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

- 3.1 Incomplete Contract Documents
- 3.2 Copies of Contract Documents
- 3.3 Scope of Work
- 3.4 Intent of Contract Documents
- 3.5 Discrepancy in Contract Documents
- 3.6 Clarifications and Interpretations
- 3.7 Reuse of Documents

ARTICLE 4 - LANDS AND PHYSICAL CONDITIONS

- 4.1 Availability of Lands
- 4.2 Visit to Site/Place of Business
- 4.3 Explorations and Reports
- 4.4 Utilities
- 4.5 Damaged Utilities
- 4.6 Utilities Not Shown or Indicated
- 4.7 Survey Control

ARTICLE 5 - BONDS AND INSURANCE

- 5.1 Delivery of Bonds
- 5.2 Bonds
- 5.3 Replacement of Bond and Surety
- 5.4 Insurance Requirements
- 5.5 Indemnification

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES

- 6.1 Supervision of Work
- 6.2 Superintendence by CONTRACTOR
- 6.3 Character of Workers
- 6.4 CONTRACTOR to Furnish
- 6.5 Materials and Equipment
- 6.6 Anticipated Schedules
- 6.7 Finalizing Schedules
- 6.8 Adjusting Schedules
- 6.9 Substitutes or "Or-Equal" Items
- 6.10 Substitute Means and Methods
- 6.11 Evaluation of Substitution
- 6.12 Dividing the Work
- 6.13 Subcontractors
- 6.14 Use of Premises
- 6.15 Structural Loading
- 6.16 Record Documents

Contract Documents - The Contract form, Addenda, the bidding requirements and CONTRACTOR's bid (including all appropriate bid tender forms), the bonds, the Conditions of the Contract and all other Contract requirements, the Specifications, and the Drawings furnished by the DEPARTMENT to the CONTRACTOR, together with all Change Orders and documents approved by the Contracting Officer, for inclusion, modifications and supplements issued on or after the Effective Date of the Contract.

Contracting Officer - The person authorized by the Commissioner to enter into and administer the Contract on behalf of the DEPARTMENT. He has authority to make findings, determinations and decisions with respect to the Contract and, when necessary, to modify or terminate the Contract. The Contracting Officer is identified on the construction Contract.

CONTRACTOR - The individual, firm, corporation or any acceptable combination thereof, contracting with the DEPARTMENT for performance of the Work.

Contract Price - The total moneys payable by the DEPARTMENT to the CONTRACTOR under the terms of the Contract Documents.

Contract Time - The number of Calendar Days following issuance of Notice-to-Proceed in which the project shall be rendered Substantially Complete, or if specified as a calendar date, the Substantial Completion date specified in the Contract Documents

Controlling Item - Any feature of the Work on the critical path of a network schedule.

Defective - Work that is unsatisfactory, faulty or deficient, or does not conform to the Contract Documents.

DEPARTMENT - The Alaska Department of Military and Veterans Affairs. References to "Owner", "State", "Contracting Agency", mean the DEPARTMENT.

Directive - A written communication to the CONTRACTOR from the Contracting Officer interpreting or enforcing a Contract requirement or ordering commencement of an item of Work.

Drawings - The Drawings which show the character and scope of the Work to be performed and which have been furnished by the DEPARTMENT or the DEPARTMENT's Consultant and are by reference made a part of the Contract Documents.

ENGINEER - The DEPARTMENT'S authorized representative of the Contracting Officer, as defined in the DEPARTMENT'S *delegation of authority letter* to be issued after notice-to-proceed, who is responsible for administration of the contract.

Equipment - All machinery together with the necessary supplies for upkeep and maintenance, and also tools and apparatus necessary for the proper construction and acceptable completion of the work.

Final Acceptance - The DEPARTMENT's written acceptance of the Work following Final Completion and the performance of all Contract requirements by the CONTRACTOR.

Final Completion - The Project (or specified part thereof) has progressed to the point that all required Work is complete as determined by the Contracting Officer.

Furnish - To procure, transport, and deliver to the project site materials, labor, or equipment, for installation or use on the project.

General Requirements - Sections of Division 1 of the Specifications which contain administrative and procedural requirements as well as requirements for temporary facilities which apply to Specification Divisions 2 through 16.

BUILDING #57226 ADDITION

CONTRACT # W91ZRU-10-D-0006-0010

ALASKA ARMY NATIONAL GUARD
CAMP CARROLL, JBER, ALASKA

RECORD DRAWINGS

DRAWING INDEX	
GENERAL G1 COVER SHEET	MECHANICAL M0.1 MECHANICAL LEGEND AND SCHEDULES M0.2 MECHANICAL SPECIFICATIONS M1.1 UNDER FLOOR PLUMBING PLAN M1.2 ABOVE FLOOR PLUMBING PLAN M2.1 VENTILATION PLAN M3.1 MECHANICAL DETAILS
ARCHITECTURAL A1.1 SPECIFICATIONS A1.2 SPECIFICATIONS A2.1 SITE PLAN A2.2 FLOOR PLAN A2.3 ENLARGED FLOOR PLAN AND DETAILS A3 EXTERIOR ELEVATIONS AND SECTIONS A4 SCHEDULES, DOOR AND WINDOW TYPES	ELECTRICAL E0.1 ELECTRICAL LEGEND, SCHEDULE, SITE PLAN AND DETAILS E0.2 ELECTRICAL SPECIFICATIONS AND SCHEDULE E1.1 LIGHTING PLAN E2.1 POWER PLAN
STRUCTURAL S0.1 STRUCTURAL NOTES S1.1 FOUNDATION PLAN, INSULATION PLAN S2.1 FOUNDATION DETAILS	FIRE ALARM FA-1 57226 FLOOR PLAN FA-2 DETAIL PAGE A FA-3 DETAIL PAGE B
CODE DATA	FIRE PROTECTION FP-1 FIRE SPRINKLER SPECIFICATIONS FP-2 SPRINKLER SITE PLAN, BUILDING SECTION AND DETAILS FP-3 FIRE SPRINKLER LAYOUT
PROJECT TEAM	CODES AND STANDARDS
PROJECT MANAGEMENT & GENERAL CONSTRUCTION H. WATT & SCOTT INC. 10360 Nigh Road Anchorage, Alaska 99515 Project Mgr: Craig Watts TEL: 1(907) 344-6628 FAX: 1(907) 344-5360 EMAIL: c.watts@hwtll.com	BUILDING CODE ANALYSIS A. OCCUPANCY CLASSIFICATION: RESIDENTIAL GROUP R-1 B. OCCUPANCY SEPARATIONS: PER IBC 2009 PAR. 420.2 FIRE PARTITIONS REQUIRED BETWEEN SLEEPING UNITS C. ALLOWABLE FLOOR AREA FOR NON-SPRINKLERED BUILDING (TABLE 503): 7,000 SF D. AREA INCREASE FOR SPRINKLERED BUILDING (506.3): 21,000 SF (1 STORY) E. ACTUAL BUILDING AREAS OF THIS PROJECT: NEW 1st FLOOR 2,840 SF EXISTING 1st FLOOR 1,950 SF TOTAL 4,790 SF F. ALLOWABLE NO. OF STORES: TYPE V B CONSTRUCTION ALLOWABLE STORES: 2 G. ALLOWABLE HEIGHT: TYPE V B CONSTRUCTION ALLOWABLE: 40 FT AVERAGE ROOF HEIGHT = 13'-7" THE AVERAGE HEIGHT CALCULATION ESTIMATED FROM DESIGN DRAWINGS FOR NEW STRUCTURE (SLIGHTLY HIGHER THAN EXISTING) BETWEEN GRADE, PLANE AND THE AVERAGE HEIGHT OF SLOPING ROOF. H. FIRE RESISTANCE RATING REQUIREMENTS PER TABLE 601: TYPE V B - CONSTRUCTION STRUCTURAL FRAME 0 HR BEARING WALLS (EXT.) 1 HR (TABLE 602 - SEPARATION 6 FT.) BEARING WALLS (INT.) 0 HR NON-BEARING EXT. WALLS 1 HR (TABLE 602 FIRE SEPARATION 6 FT.) NON-BEARING INT. WALLS 30 MIN. (PER 420.2 WITH SPRINKLER SYSTEM PER NFPA 1.3) FLOOR CONSTRUCTION 0 HR ROOF CONSTRUCTION 0 HR
ARCHITECTURE GDM, INC. 4600 Buena Vista Park Blvd., Suite 24 Anchorage, Alaska 99503-7152 TEL: 1(907) 562-0422 FAX: 1(907) 562-0448 EMAIL: gdminc@ak.net	CODES AND STANDARDS UNIFORM PLUMBING CODE (UPMC) 2009 EDITION WITH STATE OF ALASKA DEPARTMENT OF LABOR AMENDMENTS NATIONAL ELECTRICAL CODE (NEC) 2009 WITH STATE OF ALASKA DEPARTMENT OF LABOR AMENDMENTS ARCHITECTURAL BARRIERS ACT (ALASKA STATUTE 35.10.015) TITLE 17 ALASKA ADMINISTRATIVE CODE 50.010 18 AAC 30, ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION APPLICABLE FEDERAL LAWS, REGULATIONS AND OTHER NATIONAL ASSOCIATION STANDARDS: AMERICANS WITH DISABILITIES ACT (PUBLIC LAW 101-538) 2010 STANDARDS FOR ACCESSIBILITY DESIGN NATIONAL FIRE PREVENTION ASSOCIATION (NFPA) STANDARDS AS REFERENCED IN THE TECHNICAL SPECIFICATION SECTIONS OR ON THE DRAWINGS OSHA GENERAL INDUSTRY SAFETY AND HEALTH STANDARDS (29 CFR 1910) PUBLICATION 12206 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (40 CFR, PART 61) ENVIRONMENTAL PROTECTION AGENCY (EPA) FINAL RULE (40 CFR, PART 761) UNITED FACILITIES CRITERIA (UFC): 3-600-01 FIRE PROTECTION ENGINEERING FOR FACILITIES 1-010-01 000 MINIMUM ANTI-TERRORISM STANDARDS FOR BUILDINGS 3-520-01 DESIGN: INTERIOR AND EXTERIOR LIGHTING AND CONTROLS 3-310-04 SEISMIC DESIGN FOR BUILDINGS 3-301-01 STRUCTURAL ENGINEERING AR-190-51 SECURITY OF ARMY PROPERTY (SENSITIVE AND NON-SENSITIVE) NG PAM 415-5 ARMY NATIONAL GUARD GENERAL FACILITIES INFORMATION DESIGN GUIDE NG PAM 415-12 ARMY NATIONAL GUARD FACILITIES ALLOWANCES THE FOLLOWING INDUSTRY INSTITUTE AND ASSOCIATION PUBLICATIONS SHALL BE USED AS MINIMAL STANDARDS WHERE APPLICABLE: AMERICAN IRON AND STEEL INSTITUTE AMERICAN INSTITUTE FOR STEEL CONSTRUCTION AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WELDERING SOCIETY PORTLAND CEMENT ASSOCIATION NATIONAL BOARD OF FIRE UNDERWRITERS NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL FIRE PROTECTION AGENCY UNDERWRITERS LABORATORY STANDARDS FOR SAFETY
STRUCTURAL ENGINEERING OEN ASSOCIATES, INC. 16922 Hanson Drive Eagle River, Alaska 99577 TEL: 1(907) 694-0507 FAX: 1(907) 694-0508 EMAIL: bob@oena.net	RECORD DRAWINGS
MECHANICAL & ELECTRICAL ENGINEERING RSA ENGINEERING, INC. 181 Swanson Avenue, Suite 101 Wasilla, AK 99654 TEL: 1(907) 357-1521 FAX: 1(907) 257-1751	
FIRE PROTECTION CHINDOK FIRE PROTECTION, INC. 12651 Old Seward Highway Anchorage, Alaska 99515 TEL: 1(866) 616-9909 FAX: 1(907) 344-3411 EMAIL: jef@chindokfire.com	
FIRE ALARM GMM FIRE PROTECTION, INC. 6108 Mackay Street Anchorage, AK 99518 TEL: 1(907) 336-5000 FAX: 1(907) 336-5050	
LOCATION MAP	
PROJECT MANAGEMENT & GENERAL CONSTRUCTION	

THIS DRAWING MEASURES 34"x22" AT FULL SCALE

THIS RECORD DRAWING HAS BEEN PREPARED AND CHECKED FOR CONFORMANCE WITH THE REQUIREMENTS OF THE ALASKA DEPARTMENT OF LABOR AND INDUSTRY. GDM INC. DOES NOT CONFIRM THE ACCURACY OF THIS INFORMATION AND ASSUMES NO LIABILITY FOR ERRORS OR OMISSIONS IN THIS DRAWING.

GDM inc.
ARCHITECTURE • PLANNING



CAMP CARROLL, JBER

BUILDING #57226
ADDITION

COVER SHEET

JOB NO. 13015

G1

DATE: 13 OCT 2014

SECTION 05 40 00 COLD-TORNED METAL FRAMING		SECTION 07 19 00 SEALING SLAB VAPOR RETARDER		SECTION 07 60 00 FLASHING AND SHEET METAL		SECTION 08 14 00 WOOD DOORS	
STEEL STUDS, JOISTS, TRACKS, BRACING AND ACCESSORIES		VAPOR RETARDER		Materials shall conform to the requirements specified below and to the thickness and configurations established in SMOCA Arch. Manual		DOORS	
Framing components shall comply with ASTM C 955 and the following:		Polyethylene sheeting, 6.0 mil, complying with ASTM D-4391-84E. Vapor rating of 0.10 perms or less. (ASTM E961: Ten-foot minimum X continuous roll length.		Exposed Sheet Metal Items, Zinc-Coated (galvanized) Shall be of the same material. Minimum 24 ga.		Provide doors of the types, sizes and designs indicated.	
Studs and Joists of 16 Gage 10.0598 inch and heavier		Accessories: Primers, adhesives, solvents, battens, staples, clips, trim and other accessories recommended by vapor retarder manufacturer and necessary for a complete installation.		Steel Sheet, Zinc-Coated (galvanized) ASTM A 653/A 653M, Minimum 24 ga.		Interior Flush Doors	
Studs and Joists of 18 Gage 10.0418 inch and lighter		EXAMINATION		Finish		Provide particlboard core, Type II flush doors conforming to KMA 1.5. 1-A with faces of sound grade red oak hardwood for natural finish.	
Studs and Joists of 18 Gage 10.0418 inch and lighter, Track, and Accessories (All Gages): Galvanized steel, ASTM A 653/A 653M, G60 or carbon steel, ASTM A 1008/A 1008M, Grade C, painted.		Examine Flashing details and find conditions to receive work for defects that will adversely affect the completed installation, and for deviations beyond allowable tolerances.		Factory finished to match adjacent building material color.		1-A with faces of sound grade red oak hardwood for natural finish.	
Steel, Gauge, Section Modulus, and Other Structural Properties		Substrate surfaces shall be free of sharp projections or holes over which the vapor retarder sheet can be applied without tearing or puncturing.		Fastener		Finishes	
Size and gauge as indicated.		INSTALLATION		DOOR SEALANTS		Field Pairing: Factory prime or field doors and field paint.	
CONNECTIONS		Installation shall be continuous, without gaps, holes or tears. Installation may be beneath a layer of sand for V.R. protection and curing of concrete.		Use the same metal or metal compatible with the item fastened. Use stainless steel fasteners to fasten dissimilar materials.		Color	
FASTENING		PROTECTION		SCOPE		Provide door finish color as selected by the Contracting Officer's representative.	
Fasten framing members together by using self-drilling or self-tapping screws.		The Contractor shall protect installed retarder in all areas so that construction activities and traffic across the retarder will not result in punctures or other forms of damage and deterioration. The continuity and vapor resistance integrity of the vapor retarder is an extremely important element of the project construction.		Replace existing windows to meet egress requirements of sleeping rooms and UFG 4-010-01 and UFG 4-010-02. Existing exterior walls are 2x6 load bearing wood studs with plywood sheathing. Building occupancy: Bluffing Level of Protection: low. Project is within a controlled perimeter.		ALUMINUM WINDOWS	
Screws		SECTION 07 46 30 STEEL ROOFING		SECTION 08 11 13 STEEL DOORS AND FRAMES		SECTION 08 13 13 GLASS AND GLAZING	
Screws shall be self-drilling self-tapping type, size, and location shown on the drawings or specified. Screw penetration through joined materials shall not be less than three exposed threads. Minimum spacing and edge distances for screws shall be as specified in AISI S302-1. Screws covered by sheathing materials shall have low profile heads.		MANUFACTURER		LOCALITY		PRODUCTS	
SECTION 07 21 00 LOOSE FILL INSULATION		Vapor Retarder		COLOR		A. Duro Dark Bronze Anodized.	
INSULATION		Finish to be manufacturer's standard color.		b. Joints and recesses formed where frames and subsills of windows, doors, louvers, and vents adjoin metal frames. Use sealant at both exterior and interior surfaces of exterior wall penetrations.		B. Solarban 60 tempered glass over 1/4" laminated.	
Glasfloc Pro loose fill fiberglass insulation having a flame spread rating of 25 or less and a smoke developed rating of 150 or less when tested in accordance with ASTM E 84. Insulation to be installed in existing attic over existing batt insulation.		Provide trim pieces as detailed on Drawings and per manufacturer's installation instructions as required for complete, weather tight, functional installation.		c. Metal-to-metal joints where sealant is indicated or specified.		MATERIALS	
Thermal Resistance Value (R-VALUE)		SECTION 07 41 00 INSULATED METAL WALL PANELS		MATCH ADJACENT		A. Mullions and Cover Plates: Shall be extruded aluminum of 6063-T5 alloy and temper of profile and dimensions indicated on the drawings.	
R-30 (in addition to existing fiberglass batt)		MANUFACTURER		Primary surface color		B. Thermal Barrier: Neoprene, rigid vinyl or polyurethane conforming to AAMA 101.	
Prohibited Materials		Kingspan.		Match adjacent		GLASS AND GLAZING	
BAFFLES		INSULATED METAL WALL PANELS		Match adjacent		A. Glass thickness and type shall be in accordance with manufacturer's recommendations for prescribed design pressure. Factory glazing shall be in accordance with manufacturer's standard requirements.	
Baffle baffles constructed of plastic, cardboard, or other approved materials. Use only non-combustible materials meeting the requirements of ASTM E 136 for blocking around chimneys and heat producing devices.		Prefinished metal skins, polyurethane insulation, 4" thick, R-30		Primary surface color		B. Factory glazed except where field glazing is required due to large dismantling sash framing.	
SECTION 07 22 00 FOAMATION INSULATION		TRIM		Match adjacent		C. Insulating Glass: ASTM E114, NWH/IGCC, CDA Rated, Dual-Seal or Single-Seal as selected. Provide the window manufacturer's sealed insulating glazing material at least 1" overall in thickness.	
Insulfoam R-Tech Expanded Polystyrene Board with polymeric laminate faces: ASTM C 578, Type I, 1.0 density.		Provide trim pieces as detailed on Drawings and per manufacturer's installation instructions as required for complete, weather tight, functional installation.		Match adjacent		Glass Characteristics: Manufacturer's standard clear float glass.	
INSULATION THICKNESS		Steel Frames		Match adjacent		ACCESSORIES	
Thickness shall be 2".		SDI/DOOR A250-B, Level 3, 16 gauge, except as otherwise specified. Form frames to sizes and shapes indicated, with welded corners. Provide steel frames for all doors.		Match adjacent		A. Fasteners: Where exposed, shall be 300 Series, Stainless Steel.	
		Anchors		Match adjacent		B. Fastener Anchors: Aluminum. When steel anchors are used, provide insulation between steel material and aluminum to prevent galvanic action.	
		Provide anchors to secure the frame to adjoining construction. Provide steel anchors, zinc-coated or painted with rust-inhibitive paint, not lighter than 18 gauge. Provide 3 jamb anchors and 1 base anchor or 4 jamb anchors on both sides of frame.		Match adjacent			
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SECTION 08 11 10

DOOR HARDWARE

DOOR HARDWARE

General: Provide door hardware for each door to comply with requirements in this Section, and the Door Hardware Schedule.

Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated by using door hardware designations, as follows:

1. Named Manufacturers' Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

HINGES AND PIVOTS

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

1. Hinges:
 - a. Baldwin Hardware Corporation 10H1.
 - b. Hager Companies 18AG1.
 - c. Lawrence Brothers, Inc. 1LH1.
 - d. McKimney Products Company; Div. of ESSEX Industries, Inc. 1MK1.
 - e. Sargent Manufacturing Company; Div. of ESSEX Industries, Inc. 1SG1.
 - f. Stanley Commercial Hardware; Div. of The Stanley Works 1STH1.

LOCKS AND LATCHES

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

1. Mechanical Locks and Latches:
 - a. Best Lock Corporation 1BL1.
 - b. Corbin Russwin Architectural Hardware; Div. of Yale Security Inc. 1CR1.
 - c. Hager Companies 1HAG1.
 - d. McKimney Products Company; Div. of ESSEX Industries, Inc. 1MK1.
 - e. Sargent Manufacturing Company; Div. of ESSEX Industries, Inc. 1SG1.
 - f. Schlage Lock Company; an Ingersoll-Rand Company 1SCH1.
 - g. Weiser Lock; Div. of Masco Building Products Corporation 1WE11.

Backset: 2-3/4 inches 110 mm, unless otherwise indicated.

CYLINDERS AND KEYING

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

1. Cylinders: Same manufacturer as for locks and latches.
2. Key Control System: Best.
3. Interchangeable Cores: Core insert, removable by use of a special key, and usable with other manufacturers' cylinders.

Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.

CLOSERS

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

1. Surface-Mounted Closers:
 - a. Corbin Russwin Architectural Hardware; Div. of Yale Security Inc. 1CR1.
 - b. DORMA Door Controls, Inc.; Member of The DORMA Group 1DCL.
 - c. LCN Closers; an Ingersoll-Rand Company 1LCN1.
 - d. Norton Door Controls; Div. of Yale Security Inc. 1NOC1.
 - e. Sargent Manufacturing Company; Div. of ESSEX Industries, Inc. 1SG1.

PROTECTIVE TRIM UNITS

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

1. Metal Protective Trim Units:
 - a. Baldwin Hardware Corporation 1BH1.
 - b. IPC Door and Wall Protection Systems, Inc. 1IPC1.
 - c. Ives; H. B. Ives 1IVI1.
 - d. NY Quality Hardware; an Ingersoll-Rand Company 1NYQ1.
 - e. Triangle Brass Manufacturing Company, Inc. 1TBM1.
 - f. Wilkinson Company, Inc. 1WIL1.

Materials: Fabricate protection plates from the following:

1. Stainless Steel: 0.050 inch 11.3 mm thick; beveled top and 2 sides.

Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine or self-tapping screws.

Finish: Protection plates sized 1-1/2 inches 38 mm less than door width on push side and 1/2 inch 13 mm less than door width on pull side, by height specified in Door Hardware Schedule.

DOOR CASINGING

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

1. Door Casinging:
 - a. National Guard Products, Inc. 1NGP1.
 - b. Pemko Manufacturing Co., Inc. 1PEM1.
 - c. Reese Enterprises, Inc. 1RE1.
 - d. Sealee Corporation 1SEL1.
 - e. Zero International, Inc. 1ZER1.
2. Door Bottoms:
 - a. National Guard Products, Inc. 1NGP1.
 - b. Pemko Manufacturing Co., Inc. 1PEM1.
 - c. Reese Enterprises, Inc. 1RE1.
 - d. Zero International, Inc. 1ZER1.

THRESHOLDS

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

1. National Guard Products, Inc. 1NGP1.
2. Pemko Manufacturing Co., Inc. 1PEM1.
3. Reese Enterprises, Inc. 1RE1.
4. Zero International, Inc. 1ZER1.

MISCELLANEOUS DOOR HARDWARE

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:

1. Baldwin Hardware Corporation 1BH1.
2. Hager Companies 1HAG1.
3. Ives; H. B. Ives 1IVI1.
4. Triangle Brass Manufacturing Company, Inc. 1TBM1.

FINISHES

Standard: Comply with BIMA A156.1B, and match existing building hardware finishes.

DOOR HARDWARE SCHEDULE

BOX - DOORS 116A AND 116B

Hardware by pre-engineered metal building manufacturer.

BOX - DOOR 117

3ea Hinges	HA	BB1279 4 1/2" x 4 1/2" x 612
1ea Lockset	BE	93V1AB150 x 53 x 612
1ea Kickplate	KW	X1050 10" x 34" x 0.050" x 612
1ea Wall Stop	WW	409 x 612
1ea Sound Seal	PE	S880

SECTION 09 29 00

GYPSUM BOARD

Gypsum Board

ASTM C 36/C 36M and ASTM C 1396/C 1396M.

Moist and mildew resistant. ASTM D 3213 panel grade of 8, 5/8 inch Type X.

Finish

Tape and finish gypsum board in accordance with ASTM C 840, GA 214 and GA 216. All gypsum board walls, partitions and ceilings shall be an orange peel texture. Provide joint, fastener depressions, and corner treatment.

Fire-Resistant Assemblies

Wherever fire-rated construction is indicated, provide materials and application methods, including types and spacing of fasteners, wall and ceiling framing in accordance with the specifications contained in UL Fire Resist Dir. or NF Fire Resist Dir. for the Design Number(s) indicated, or GA 600 for the Fire Number(s) indicated. Joints of fire-rated gypsum board enclosures shall be closed and sealed in accordance with UL test requirements, NF test requirements, or GA requirements. Penetrations through rated partitions and ceilings shall be sealed tight in accordance with tested systems. Fire ratings shall be as indicated in the drawings.

SECTION 09 65 30

RESILIENT WALL BASE AND ACCESSORIES

RESILIENT WALL BASE

A. Manufacturer: Durlie.

B. Type: Rubber.

C. Group: Type 1E or 1F.

D. Style: Cove with top-rot tool.

E. Minimum Thickness: 0.125 inch.

F. Height: 4 inches

G. Lengths: Cut lengths 48 inches long or rolls 16 manufacturer's standard length.

H. Outside Corners: Job formed or pre-molded.

I. Inside Corners: Job formed or pre-molded.

J. Surface: Smooth.

K. Color: to be determined.

INSTALLATION MATERIALS

Trimable leveling and Patching Compounds: Latex-modified, Portland cement based or blended hydraulic cement based formulation provided or approved by resilient product manufacturers for applications indicated.

Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.

All installation materials shall be low V.O.C.

SECTION 09 90 00

PAINTS AND COATINGS

INTERIOR PAINT TABLES

DIVISION 5: INTERIOR METAL, FERROUS AND NON-FERROUS PAINT TABLE

INTERIOR STEEL / FERROUS SURFACES

A. Door Frames -

1. Latex 1semigloss!
Primer: Sherwin Williams ProEryl Primer 1omit 1f factory primed!
Intermediate: Sherwin Williams Industrial Acrylic Semi-Gloss
Topcoat: Sherwin Williams Industrial Acrylic Semi-Gloss
2. Hager Companies 1HAG1.
3. Ives; H. B. Ives 1IVI1.
4. Miscellaneous non-ferrous metal items not otherwise specified except floors, hot metal surfaces, and new prefinished equipment. Match surrounding finish.

1. Latex 1semigloss!

Primer: N/A
Intermediate: Sherwin Williams Industrial Acrylic Semi-Gloss
Topcoat: Sherwin Williams Industrial Acrylic Semi-Gloss

DIVISION 9: INTERIOR GYPSUM BOARD, TEXTURED SURFACES PAINT TABLE

A. New Wallboard not otherwise specified:

1. Latex 1eggshell!

Primer: Sherwin Williams ProEryl 200 Primer
Intermediate: Sherwin Williams ProEryl 400 Eggshell
Topcoat: Sherwin Williams ProEryl 400 Eggshell

SECTION 10801

TOILET ACCESSORIES

MANUFACTURERS AND PRODUCTS

Manufacturers and products are limited to those indicated in the Toilet Accessory Schedule.

INSTALLATION

Coordinate accessory locations with other work for anchor blocking installation, to prevent interference with door and fixture clearances, adding required clearances proper installation, operation, cleaning and servicing of accessories. Install accessories according to manufacturer's written instructions, using fasteners appropriate to substrate. Install units level, plumb, and firmly anchored in locations and at heights indicated. Adjust accessories for unobstructed, smooth operation and verify that mechanisms function properly. Remove temporary labels and protective rollings. Clean and polish exposed surfaces according to manufacturer's written recommendations. Turn keys over to Owner.

TOILET ACCESSORY SCHEDULE

Toilet Tissue Dispenser:

- A. Basis of Design: Georgia Pacific Model 5909.
- B. Type: Jumbo double-roll dispenser, Surface mounted.

Toilet Dispenser:

- A. Basis of Design: Georgia Pacific Model 5960.
- B. Type: Automated roll toilet dispenser, Touchless, Hands Free, Battery operated, Surface mounted.

Soap Dispenser:

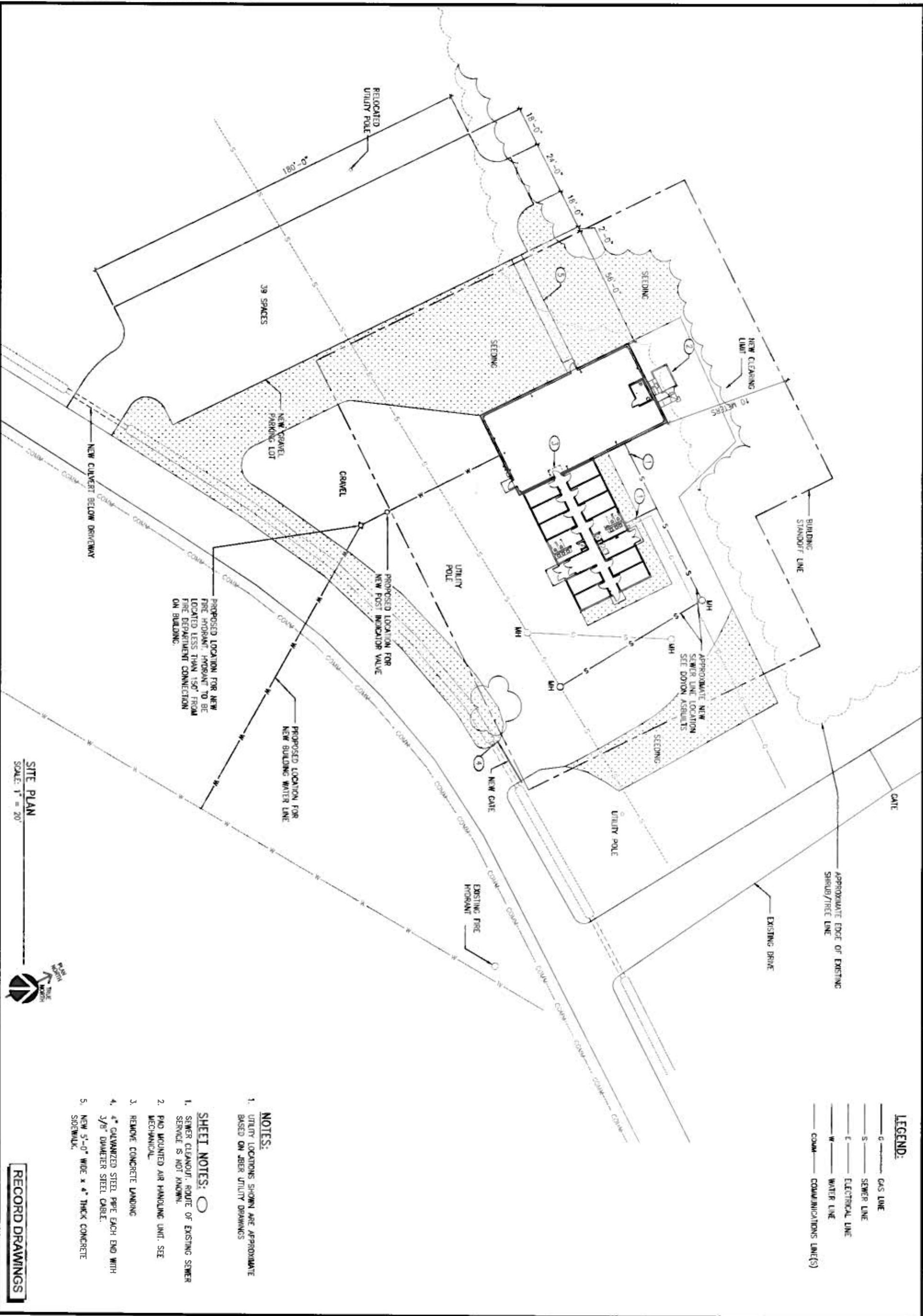
- A. Basis of Design: GOUD Model 5150.
- B. Type: Vertical-Tank Type, Push Operation, Surface-mounted.

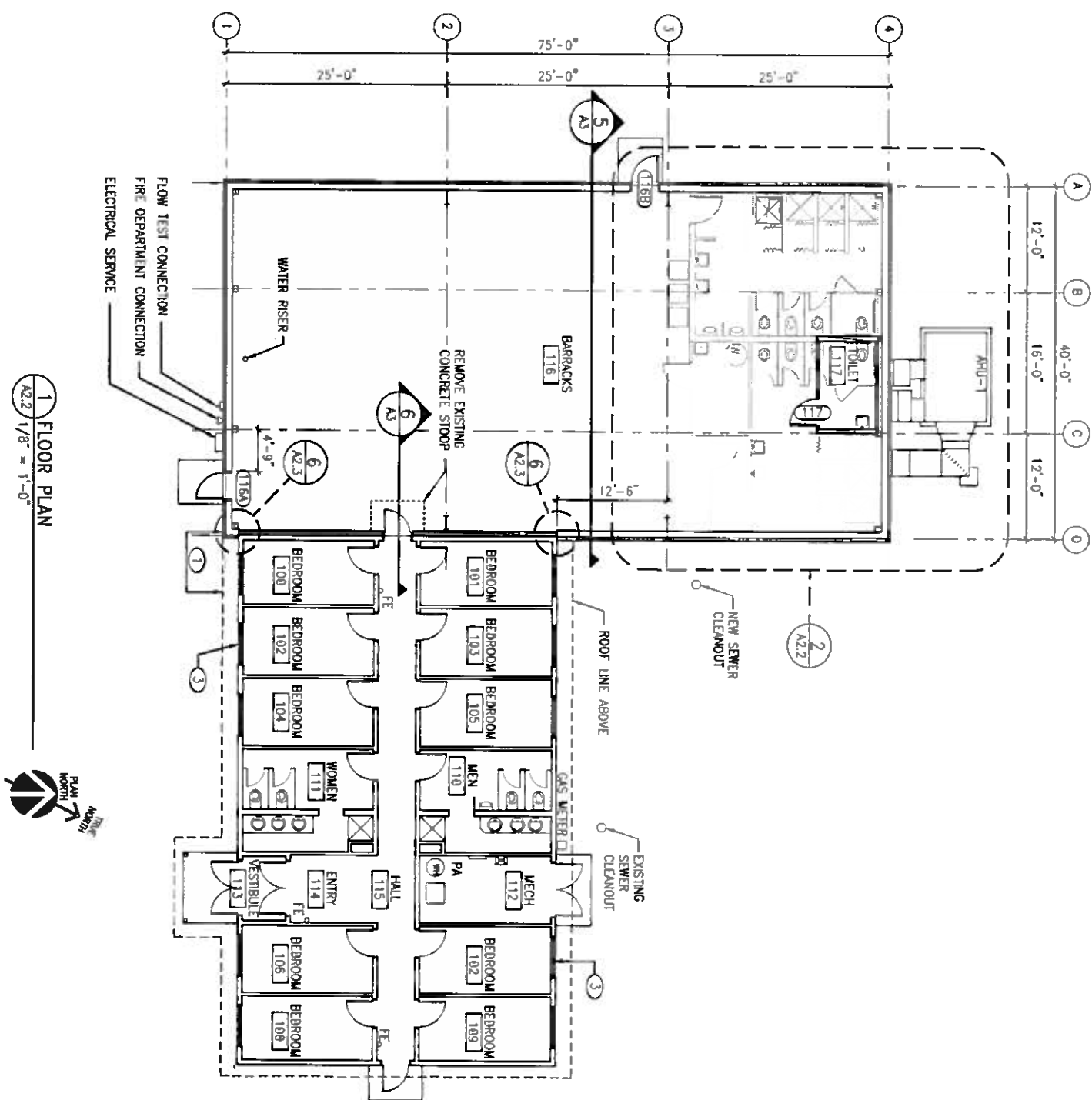
Grab Bar:

- A. Basis of Design: Bobcirk B-606 Series.
- B. Type: Stainless-Steel 1/4" o.d. tubing with satin finish.
- C. Mounting: Concealed flange and anchors with manufacturer's snap flange cover.

Mirror Unit:

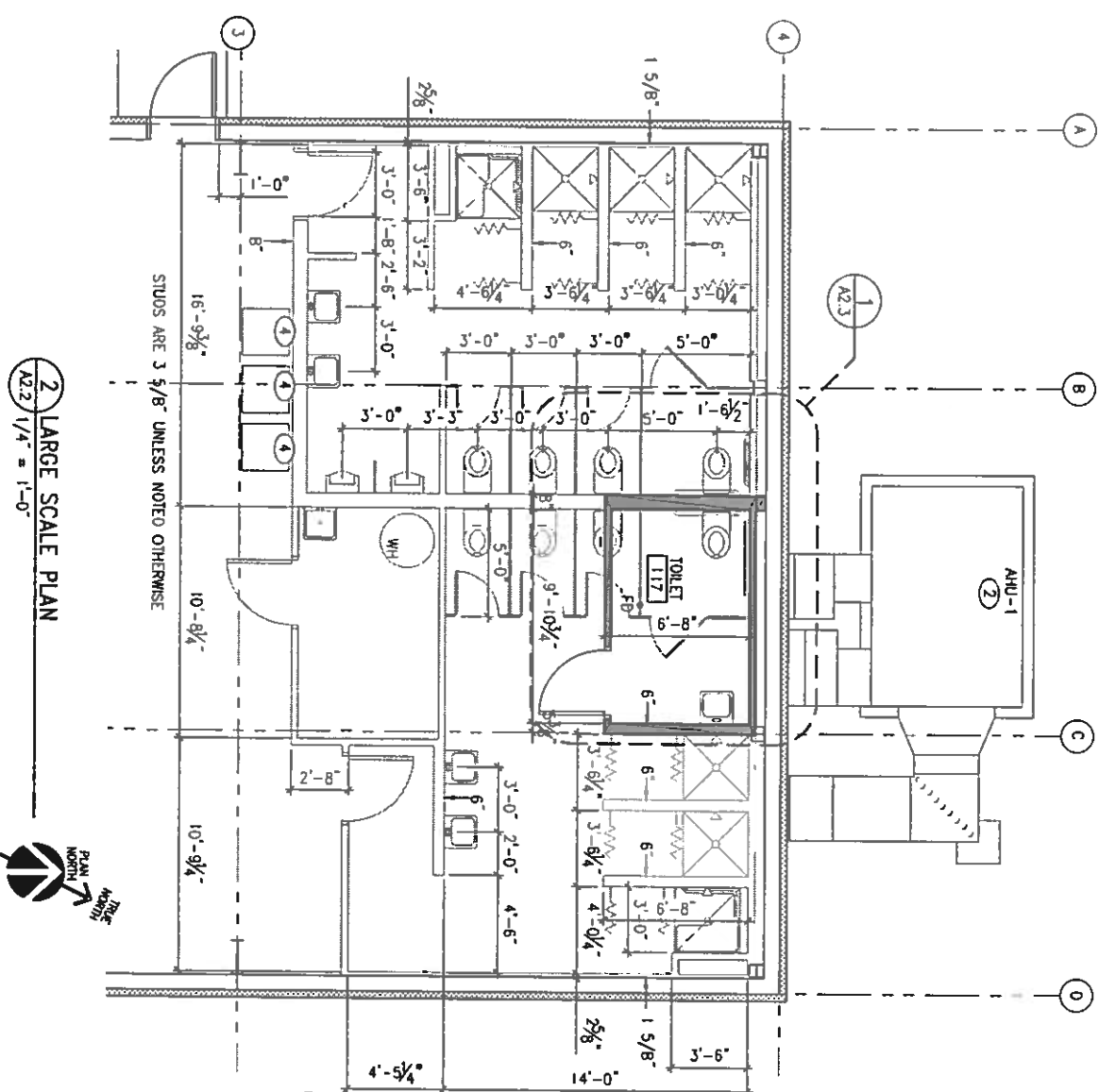
- A. Basis of Design: Bobcirk B-165 Series. Size: 24" w x 16" h.
- B. Type: Stainless-Steel, Channel-Framed Mirror.





- NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF PANEL, FACE OF STEEL OR FACE OF STUD.
 2. CONSTRUCT NEW TOILET 117 PARTITIONS FULL HEIGHT TO BOTTOM OF ROOF PANELS ABOVE.
 3. SCREENED WALLS AND FIXTURES IN NEW BUILDING ADDITION ARE FUTURE CONSTRUCTION.

- SHEET NOTES:** ○
1. ALIGN FACE OF SILING ON NEW ADDITION WITH FACE OF EAVE ON EXISTING BUILDING.
 2. PAO MOUNTED AIR HANDLING UNIT, SEE MECHANICAL FOR GAS LINE AND OUTWORK CONNECTIONS TO BUILDING.
 3. REPLACE EXISTING WINDOWS TO MEET SLEEPING ROOM EGRESS REQUIREMENTS AS WELL AS UTC 4-0-10-01 AND UTC 4-0-10-02.
 4. FUTURE STACKING WASHERY/ORDER



NOTES:

1. ALL DIMENSIONS ARE TO FACE OF PANEL, FACE OF STEEL OR FACE OF STUD.

SHEET NOTES:

1. ALIGN FACE OF SLOING ON NEW ADDITION WITH FACE OF EAVE ON EXISTING BUILDING.
2. PAO MOUNTED AIR HANDLING UNIT. SEE MECHANICAL FOR GAS LINE AND OUTWORK CONNECTIONS TO BUILDING.
3. REPLACE EXISTING WINDOWS TO MEET SLEEPING ROOM EGRESS REQUIREMENTS AS WELL AS UTC 4-0-10-01 AND UTC 4-0-10-02.
4. FUTURE STACKING WASHERY/ORDER

RECORD DRAWINGS

FLOOR PLAN

CAMP CARROLL, JBER

**BUILDING #57226
ADDITION**



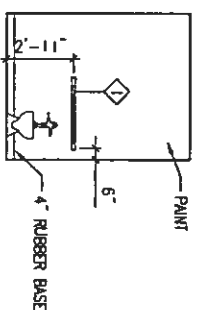
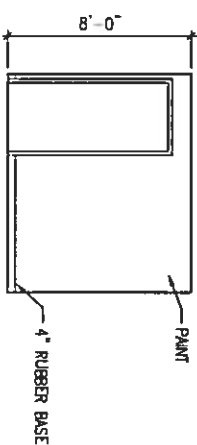
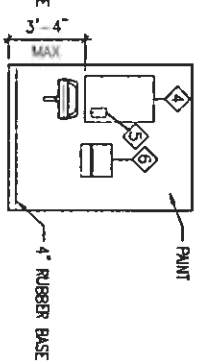
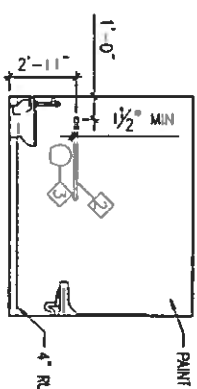
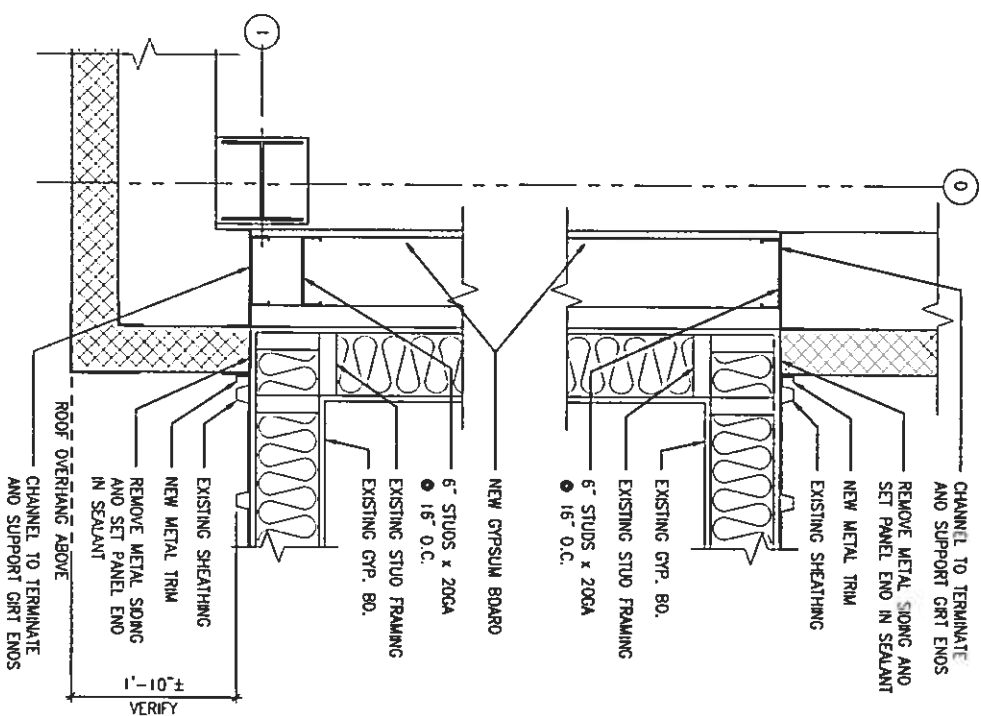
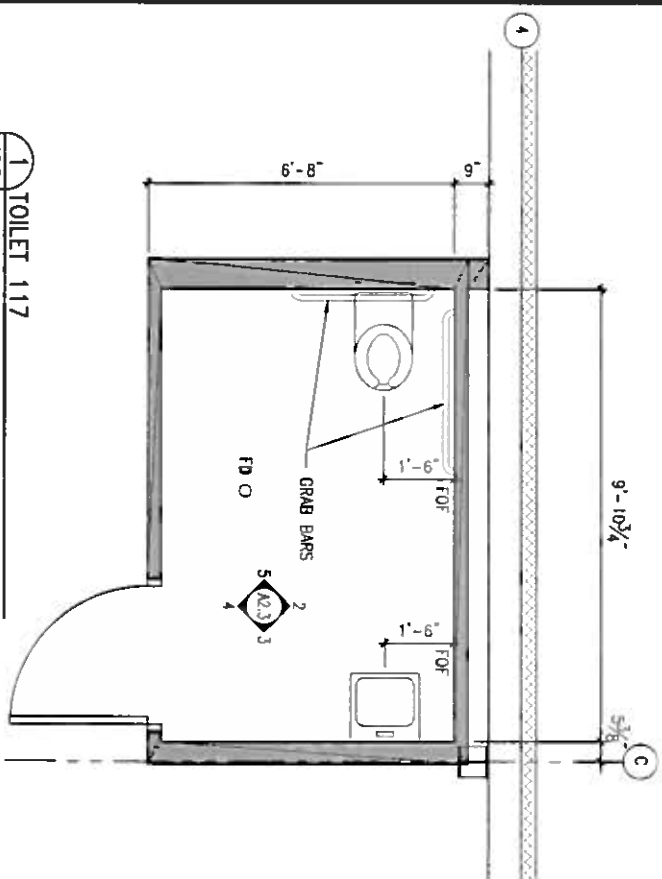
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JOB NO. 13015

A2.2

DATE: 13 OCT 2014



2 INTERIOR ELEVATION
A2.3 1/4" = 1'-0"
NORTH

3 INTERIOR ELEVATION
A2.3 1/4" = 1'-0" EAST

4 INTERIOR ELEVATION
1/4" = 1'-0"
A2.3 SOUTH

5 INTERIOR ELEVATION
A2.3 1/4" = 1'-0" WEST

FIXTURE NOTES:

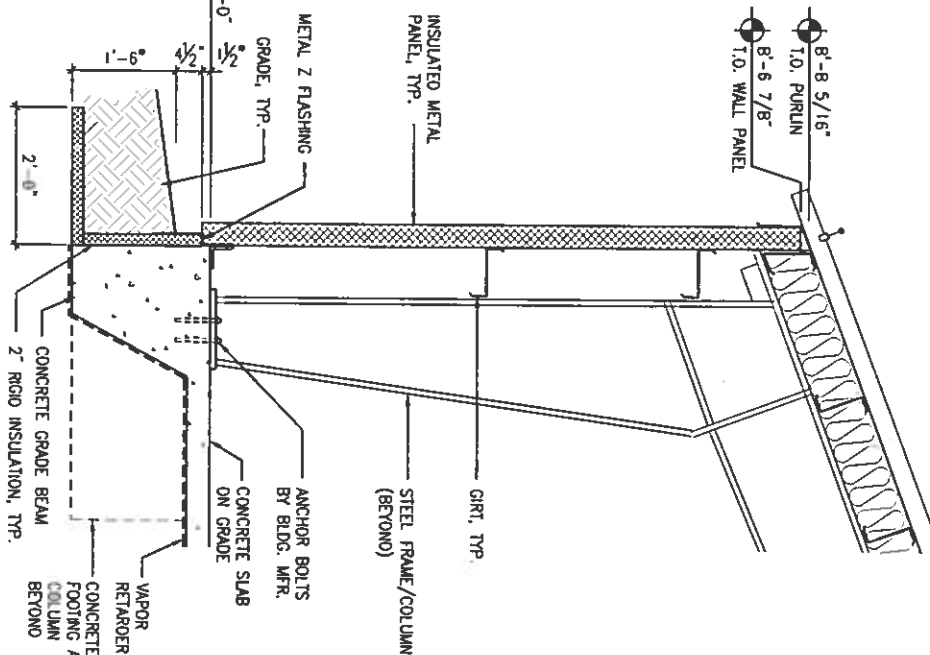
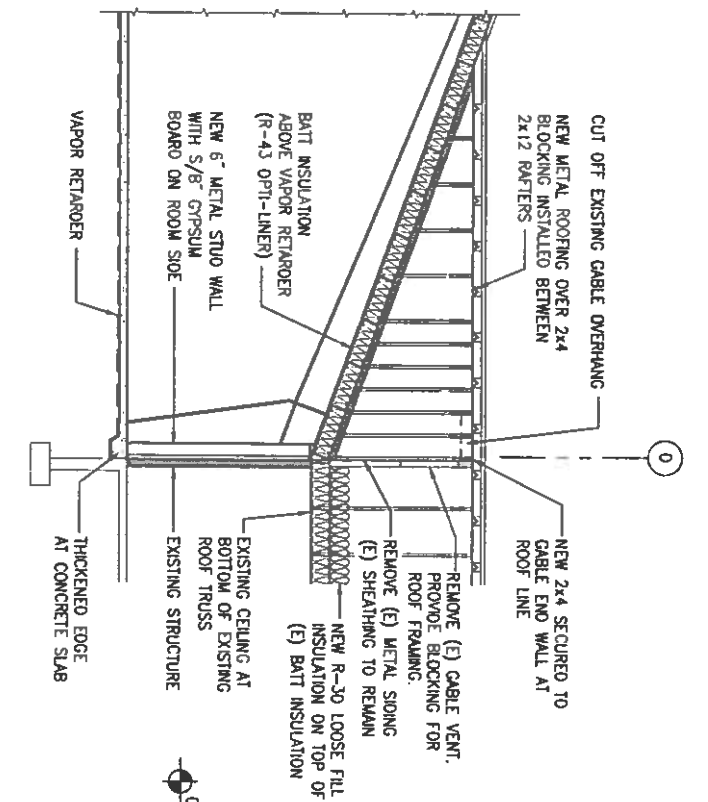
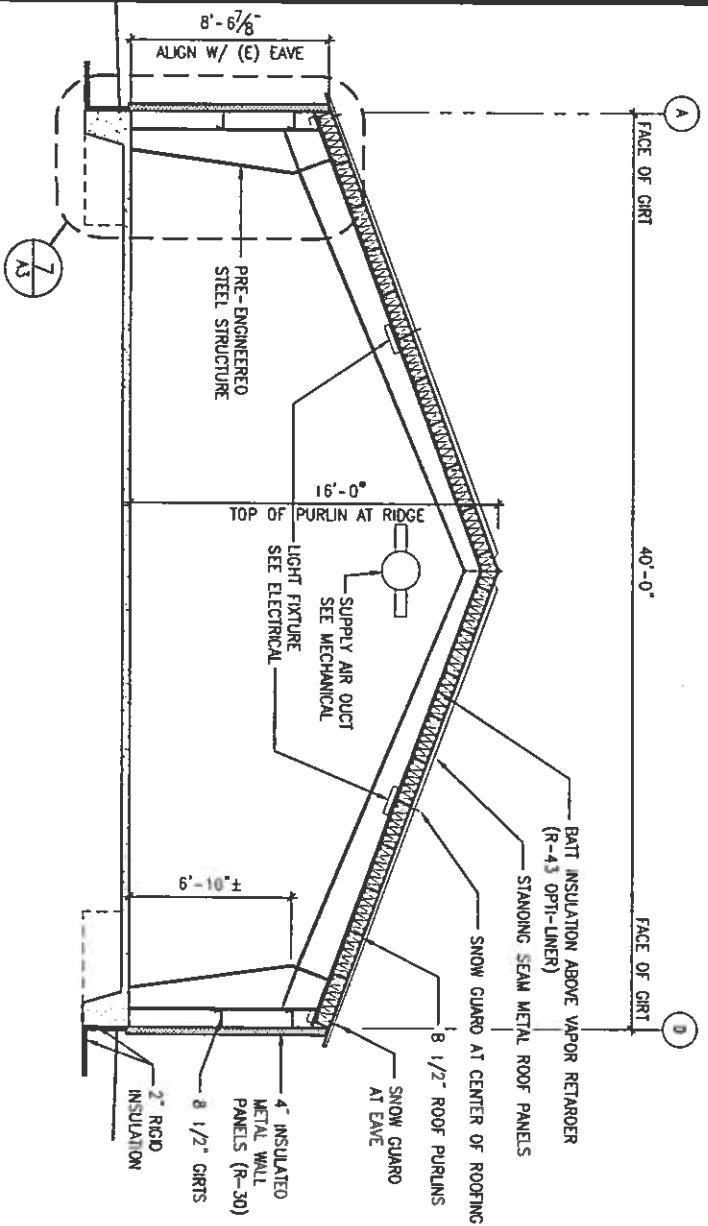
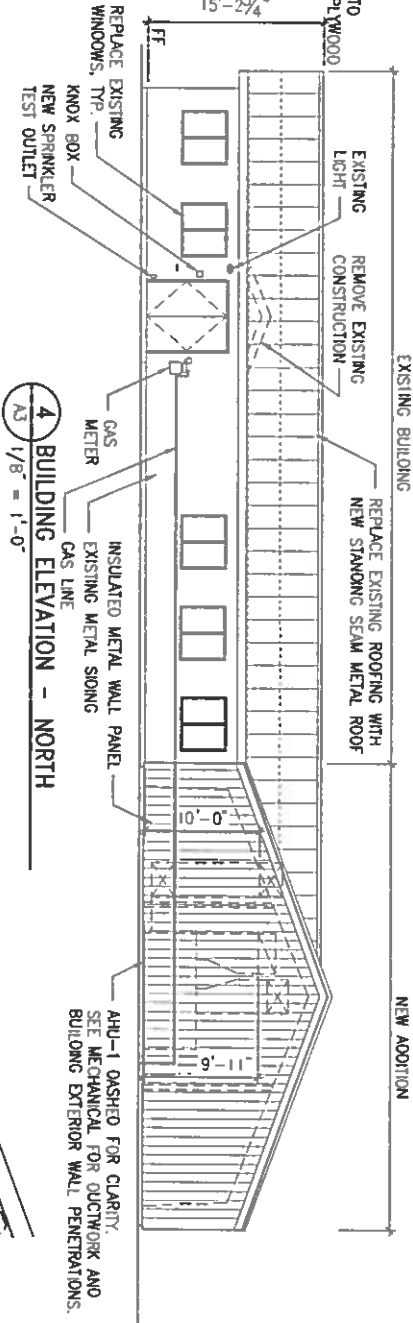
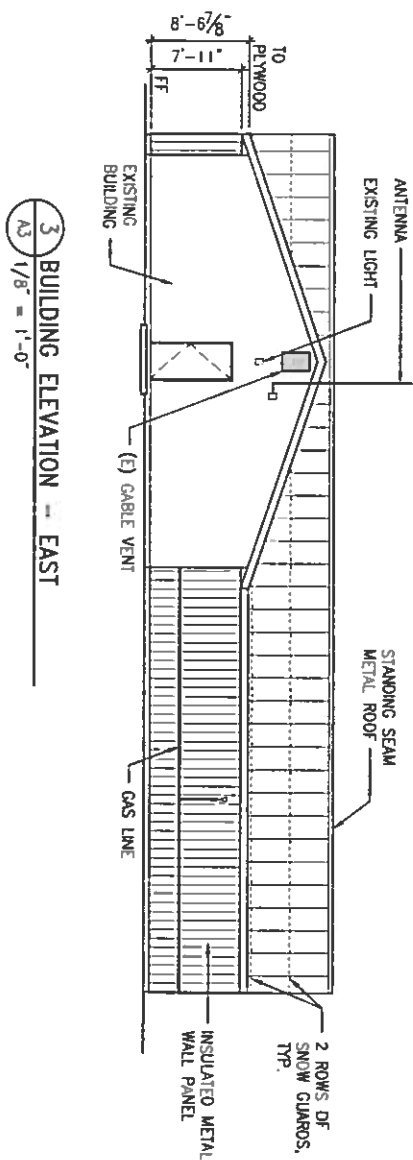
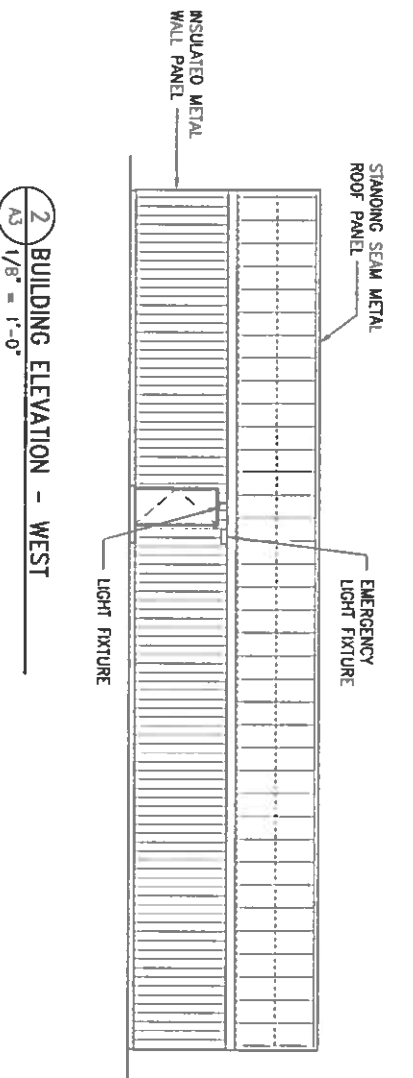
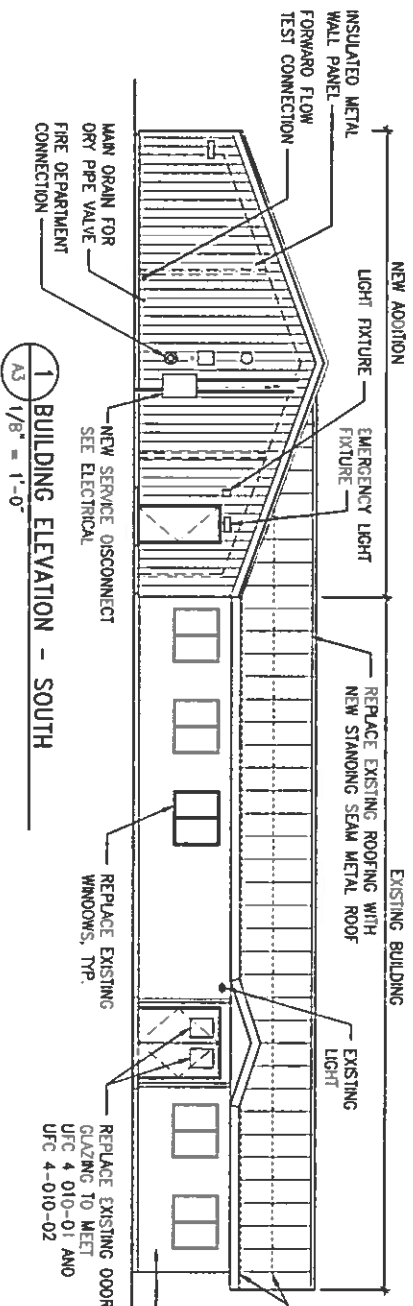
1. PROVIDE 2x BLOCKING FOR ALL PLUMBING FIXTURES & ACCESSORIES.
2. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT OF ALL TOILET ROOM FIXTURES AND ACCESSORIES WITH OWNERS REPRESENTATIVE.
3. PROVIDE HOT WATER AND DRAIN PIPE INSULATION ON ALL LAUNDRIES. COORDINATE INSULATION TYPE AND WASHABLE COVER WITH MECHANICAL.

FIXTURE SCHEDULE

- 1 GRAB BAR 36"
- 2 GRAB BAR 42"
- 3 TOILET PAPER HOLDER (24" MIN. FROM FLOOR TO BOTTOM)
- 4 MIRROR 24" W. x 36" H.

6 EXTERIOR CORNERS

$$\frac{A_{2.3}}{1/2} \cdot 1'-0''$$



RECORD DRAWINGS

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GDM inc. ARCHITECTURE • PLANNING



CAMP CARROLL, JBER
BUILDING #57226
ADDITION

EXTERIOR ELEVATIONS
AND SECTIONS

DATE 13 OCT 2014
JOB NO. 13015
A3

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING HEIGHT	CEILING	REMARKS
				NORTH	EAST	SOUTH	WEST			
100	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
101	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
102	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
103	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
104	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
105	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
106	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
107	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
108	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
109	BEDROOM	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
110	MEN	SV	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
111	WOMEN	SV	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
112	MECH	EXST	-	EXST	EXST	EXST	EXST	8'-0"	GB	
113	VESTIBULE	SV	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
114	ENTRY	SV	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
115	HALL	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	

NEW ADDITION										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING HEIGHT	CEILING	REMARKS
				NORTH	EAST	SOUTH	WEST			
116	BARRACKS	SC	-	-	-	-	-	VARIES	-	
117	TOILET	SC	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	

LEGEND:

CPT CARPET
PT PAINT
GB GYPSUM BOARD
RB RUBBER BASE
SC SEALED CONCRETE
SV SHEET VINYL
(E) EXISTING
- NO FINISH

MATERIALS / COLORS

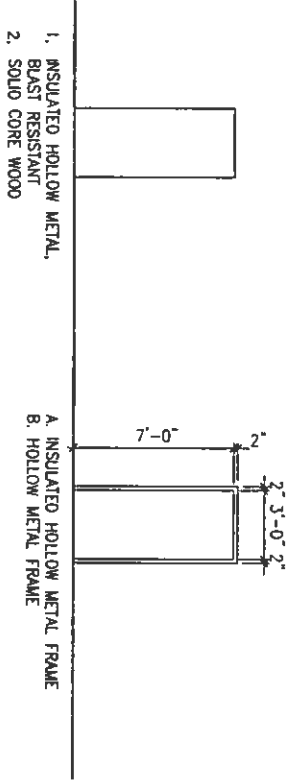
INTERIOR DOORS: EXISTING
PT-1: TO MATCH KCI WHITE WHISPER
CARPET: MILLIKEN CARPET TILES, COLOR - TO BE SELECTED
BASE: BURKE - COLOR TO BE SELECTED
SHEET VINYL: MANUFACTURER - COLOR TO BE SELECTED
EXTERIOR METAL PANELS: KINGS PAN 4" INSULATED WALL PANELS
COLOR: BEIGE TO MATCH EXISTING BUILDING
METAL ROOFING: VARCO PRUDEN STANDING SEAM SSR - DARK BROWN
METAL FLASHING: MATCH NEW ROOFING COLOR
EXTERIOR DOORS: PAINT OUTSIDE OF DOOR TO MATCH EXISTING
EXTERIOR DOORS, PAINT INTERIOR DOOR FACES TO MATCH PT-1.
EXTERIOR DOOR FRAMES: PAINT EXTERIOR SIDE OF FRAME TO MATCH EXISTING,
PAINT INTERIOR FACE OF FRAME TO MATCH PT-1.

DOOR SCHEDULE

DOOR NO.	SIZE	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	HDW.	U.L.	HEAD	DETAILS	THRESHOLD	REMARKS
116A	3'-0"x7'-0"	1	PAINT	A	PAINT	H01	-	-	-	-	BY METAL BUILDING MANUFACTURER
116B	3'-0"x7'-0"	1	PAINT	A	PAINT	H01	-	-	-	-	BY METAL BUILDING MANUFACTURER
117	3'-0"x7'-0"	2	CLEAR	B	PAINT	H02	-	-	-	-	

DOOR TYPES

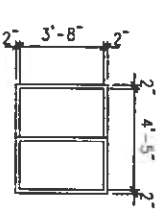
FRAME TYPES



NOTES

- ALL EXTERIOR DOOR FRAMES SHALL BE FIELD INSULATED.
- ALL EXTERIOR DOORS SHALL BE PROVIDED WITH THRESHOLDS.

WINDOW TYPES



- REPLACEMENT ALUMINUM FRAME OPERABLE WINDOW
- TO MEET SLEEPING ROOM EGRESS REQUIREMENTS



THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SITE CONDITIONS, SPECIFICATIONS AND THESE NOTES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER AT ONCE.

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL OSHA AND DODD SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE. PROVIDE TEMPORARY ERECTION BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

FLOOR LOAD - FLOOR LIVE LOAD - 250 PSF MAIN FLOOR WITH A SLAB ON GRADE

UNO DESIGN DATA

GEAR LOAD, 150, 150, 150
ROOT SHAFT LOAD, 40, 40, 40
SHAFT EFFICIENCY FACTOR, 0.95
SHAFT LOAD EFFICIENCY FACTOR, 10
TENSILE FACTOR, 1, 10
VELOCITY, 10 PER HOUR
SECOND GAST
PERFORMANCE FACTOR, 10
EXPOSURE, 10
INTERNAL MEASURE COEFFICIENT, 0.01, 1, 0.01
COMPONENTS AND CLADDING PER AGE, 1, 0.5

5.

8a - L500g, 51 - 0.55kg, 806 - L200g, 801 - 0.51kg
SITE CLASS D
SEISMIC DESIGN CATEGORY D
SEISMIC RESISTING SYSTEM - PER MTO
SEISMIC BASE SHEAR - V_s - PER MTO
EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION BASED ON AN ASSUMED SOIL BEARING PRESENCE OF 2,500 PSF, WITH THE EXISTING SOIL TO BE FREE OF ORGANICA, AND NON-FROST SUSCEPTIBLE MATERIAL THROUGHOUT. CONTRACTOR TO NOTIFY OWNER ONCE EXCAVATION HAS BEGUN TO VERIFY WITH A BOTTOM OF THE HOLE INSPECTION THAT THE ACTUAL SITE CONDITIONS COMPLY WITH THESE ASSUMPTIONS.

ALL ORGANIC FROZEN OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUB-GRADE AND REPLACED WITH COMPACTED GRANULAR NON-FROST SUSCEPTIBLE (NFS) FILL. ALL FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED, NATURAL SUB-GRADE OR COMPACTED M-6 BACK FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2500 PSF.

NON FROST SUSCEPTIBLE SOILS SHALL CONSIST OF INORGANIC SOILS CONTAINING LESS THAN 3 PERCENT BY WEIGHT OF PARTICLES SMALLER THAN 0.075mm.

ALL FOOTINGS AND SLAB SUB-GRADES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS MEASURED WITH ASTM D697. BACK FILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY.

DISCHARGE ROOF RUNOFF AWAY FROM THE FOUNDATION. PROVIDE SITE DRAINAGE AWAY FROM THE FOUNDATION WALL. WATERPROOF FOUNDATION PROOFING WHEN REQUIRED BY THE CODE AS SHOWN ON THE ARCHITECTURAL PLANS.

NO CONSTRUCTION SHALL BEGIN UNTIL ALL SEASONAL FROST HAS THAWED OR BEEN REMOVED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY STEPS TO PREVENT ANY FROST OR ICE FROM FORMING UNDER ANY FOOTING OR SLAB UNTIL THE PERMANENT STRUCTURE IS ENCLOSED AND HEATED.

ALL CONSTRUCTION SHALL BE PER THE AMERICAN CONCRETE INSTITUTE AC 308 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND IBC, LATEST EDITIONS. SHEPPI CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT PRIOR TO FABRICATION.

1's FLOOR SLABS	3000 psi
1's OTHER	3000 psi

W/C RATIO • 0.45 MAX
AIR ENTRAINMENT • 6% (WHERE LEATHER EXPOSED,
AIR ENTRAINMENT • 12% MIN.)

AGGREGATE, P MAX - ABTH C94, DECTION 413

DEPORTED REINFORCEMENT - ASTM A514 Q&S

NON-SHINK NONMETALLIC GROUT - ASTM C1107

ALL CONCRETE PERMANENTLY EXPOSED TO THE

COLD WEATHER CONCRETE SHALL CONFORM TO ACI 308. ALL COLD WEATHER CONCRETE SHALL CONTAIN AIR ENTRAINMENT PER ACI TABLE 4.13. CALCIUM CHLORIDE SHALL NOT BE USED. A MINIMUM OF 48 HOURS MUST ELAPSE BEFORE DEMOLITION OF FORMS AND FOR 14 DAYS AFTER ALL CONCRETE PLACEMENT.

ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND PLACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 308 AND ACI 309. LAP BARS WITH A CLASS B SPICE AND 40 DIAMETER MINIMUM, MECHANICALLY CONSOLIDATE CONCRETE.

ALL CONDUITS AND PIPES STRENGTHED IN CONCRETE SHALL CONFORM WITH ALL PROVISIONS SPECIFIED IN ACI 308, SECTION 6.3 AND THE FOLLOWING. ALL PIPES AND CONDUITS SHALL POSTHOLE AND WALLS MUST BE ISOLATED WITH DIAPHRAGMS OF STEELBARS SPACED NO CLOSER THAN 6" O.C. PIPES AND CONDUITS MAY BE 6" O.C. GREATER THAN 4" DIAPHRAGM PAST NOT EXCEED 18". PLACES IN MIDDLE THIRD OF THROATINGS - DO NOT DISPLACE REINFORCEMENT. 6" SPACE AT 6" O.C. MINIMUM. ALL REINFORCEMENT, OPENINGS, CONDUITS, PIPES, REINFORCED, DEFLECTIONS SHALL BE PROVIDED AS SHOWN ON THE MECHANICAL AND ELECTRICAL DRAWINGS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURER. INSTALLATION OF THESE ITEMS SHALL BE COORDINATED WITH SHOP DRAWINGS OF PIPINGS RELATING THESE ITEMS.

CONCRETE COVER: FORTNIGHT 3", WALLS 3" EXCEPT 1" WHERE EXPOSED TO WEATHER, AND 2" AGAINST EARTH. SLABS AND JOISTS 1" SLABS ON GRADE 1-1/2". DOUBLE WALL BATCH SIZE AND NUMBER OF MAIN REINFORCING MINIMUM VERTICAL SPACING OF BARS IN A ROW MAXIMUM 1" OR BARS DIAMETER AND BARS MUST STACK. YIELDS OF REINFORCEMENT IS NOT ALLOWED.

FOOTING: PROVIDE REINFORCING AS SHOWN ON THE DRAWINGS. PROVIDE CORNER BARS OF SAME SIZE AND NUMBER AT CORNERS AND INTERSECTIONS. 40 BAR DIAMETERS OR 24" (WHICHEVER IS GREATER). PROVIDE VERTICAL BARS OF SAME SIZE, NUMBER AND SPACING AS VERTICAL BARS WITH A 50 DEGREE STANDARD HOOK AT THE BOTTOM OF THE FOOTING, UNCL.

BLADES ON GRAPES!

ON THE DRAWINGS: 2) SAW CUT CONTROL JOINTS ELONGATING SHALL BE A MINIMUM OF $\frac{1}{4}$ OF SLAB THICKNESS; A RETAIL CONSTRUCTION JOINT FORM MAY BE USED. REMOVE RETAIL FORMS BEFORE PLACING SECOND POUR.

AT CORNERS, PROVIDE CORNER BARS INTO OUTSIDE FACE OF BAYE SIZE AND SPACING AS HORIZONTAL BARS, 40 DIAMETERS EACH LEG

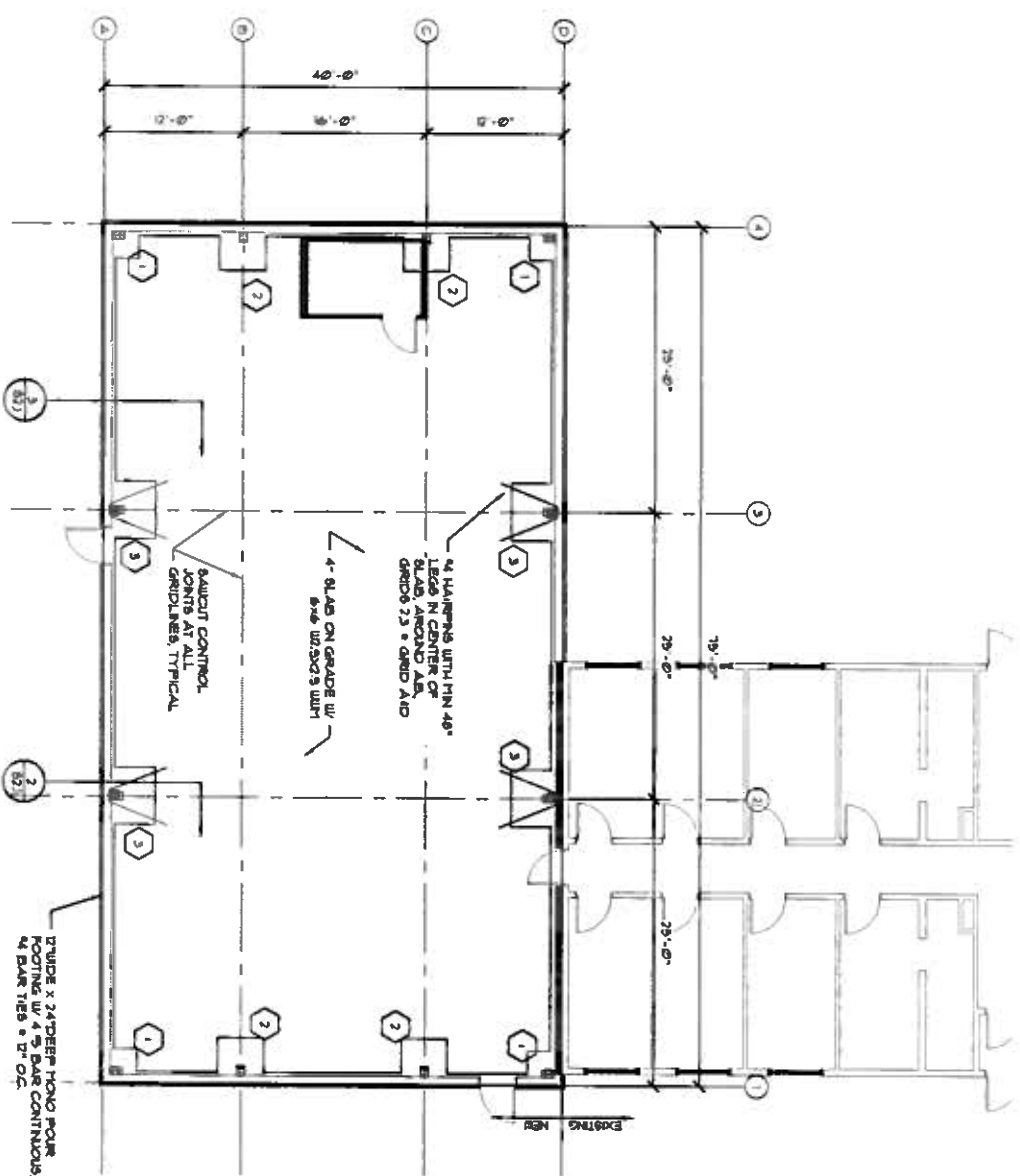
AT INTERSECTIONS, PROVIDE CORNER BARS ON OUTSIDE FACE OF SAME SIZE AND SPACING AS HORIZONTAL BARS OF INTERSECTING WALL, 40 DIAMETERS EACH LEG

FOUNDATION DESIGN AND RETAIL BUILDING LAYOUT BASED ON THE VP RETAIL BUILDING DRAWDINGS DATED 3-3-14, VP PROJECT NUMBER 14-000971. CONTRACTOR TO VERIFY THE BASE PLATE LAYOUT BASED ON THE LATEST SHOP DRAWINGS FROM THE MANUFACTURER, AND THESE DRAWINGS CONFORM TO THOSE DRAWINGS.

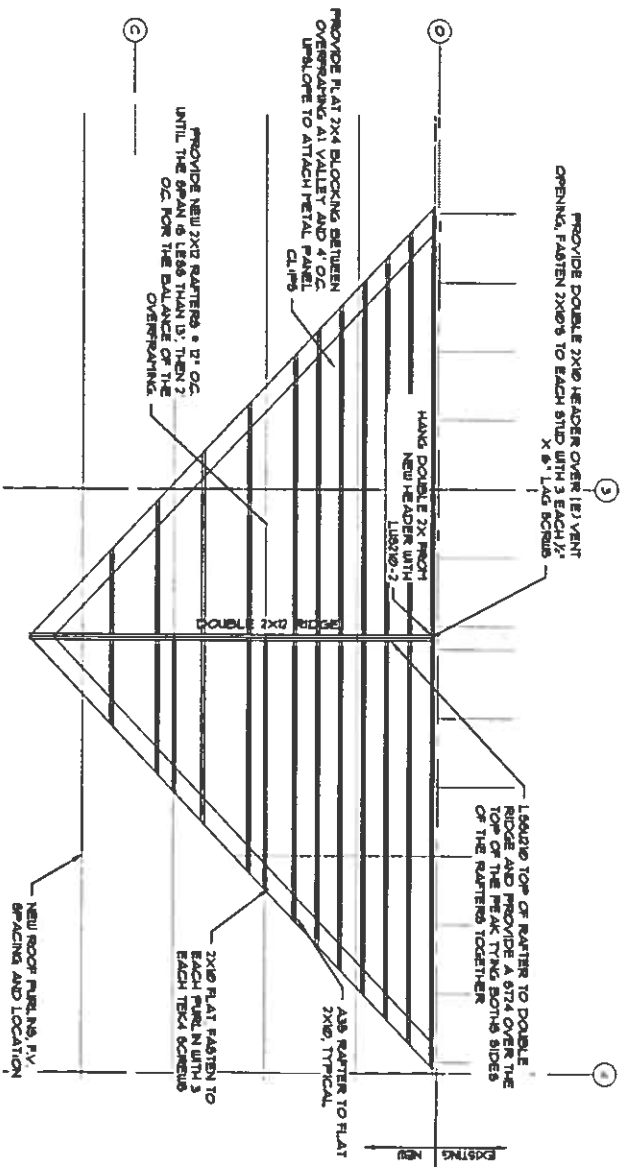
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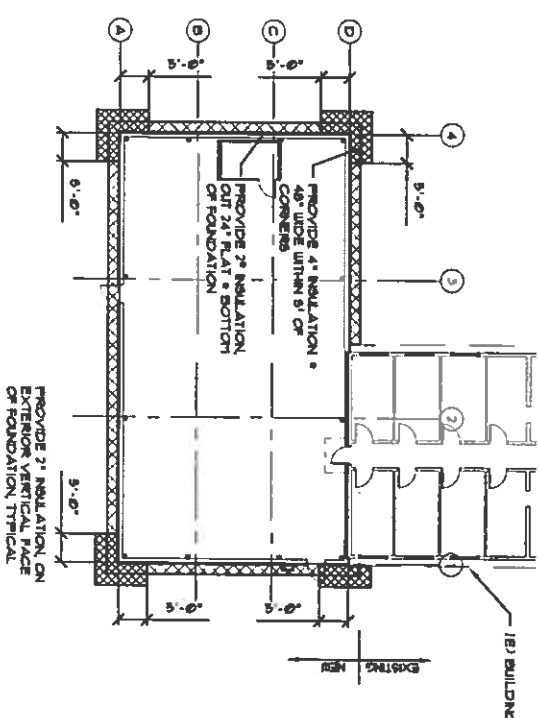
Pad And Pilaster Schedule						
TYPE	PAD SIZE	PAD THICKNESS	PAD REINFORCEMENT	PILASTER SIZE	PILASTER REINFORCEMENT	PILASTER STIRRUPS
1	2'-0" SQUARE	24"	2 #16 2 #5 EACH WAY	SEE DETAIL 52J	SEE DETAIL 52J	3 EACH 9 BAR
2	4'-0" SQUARE	24"	2 #16 4 #5 EACH WAY			
3	5'-0" SQUARE	24"	2 #16 6 #5 EACH WAY			



Roof Overframing Plan



Insulation Plan



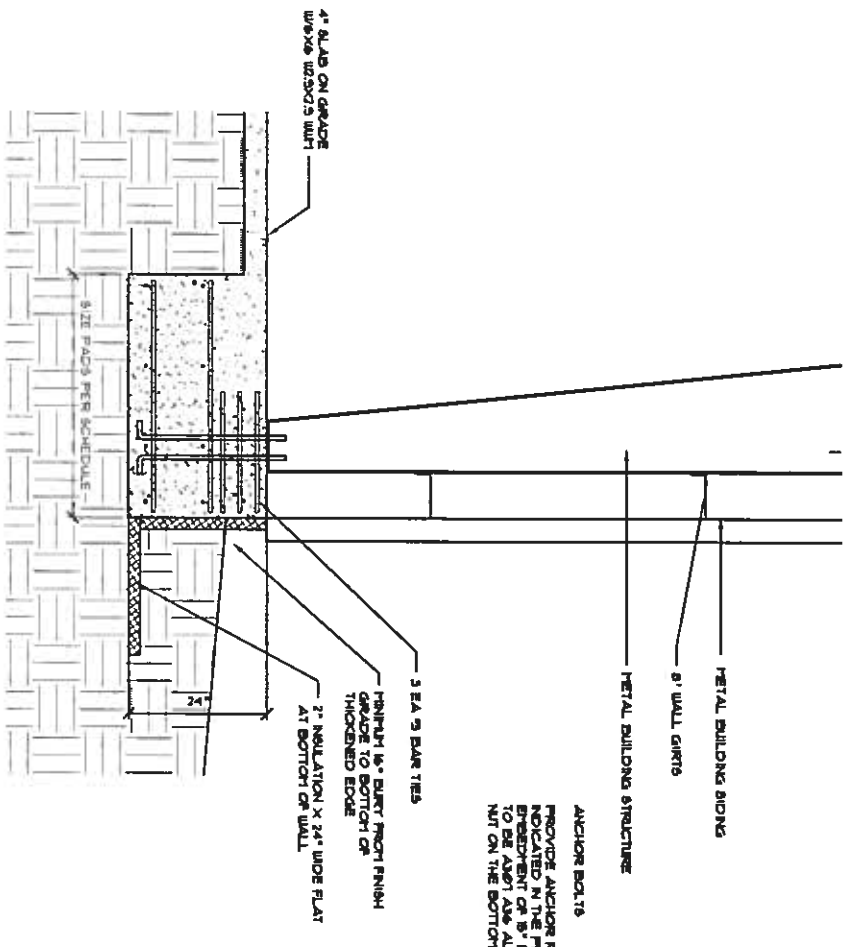
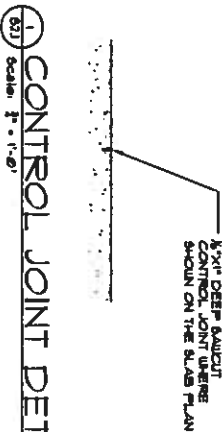
AS-BUILT

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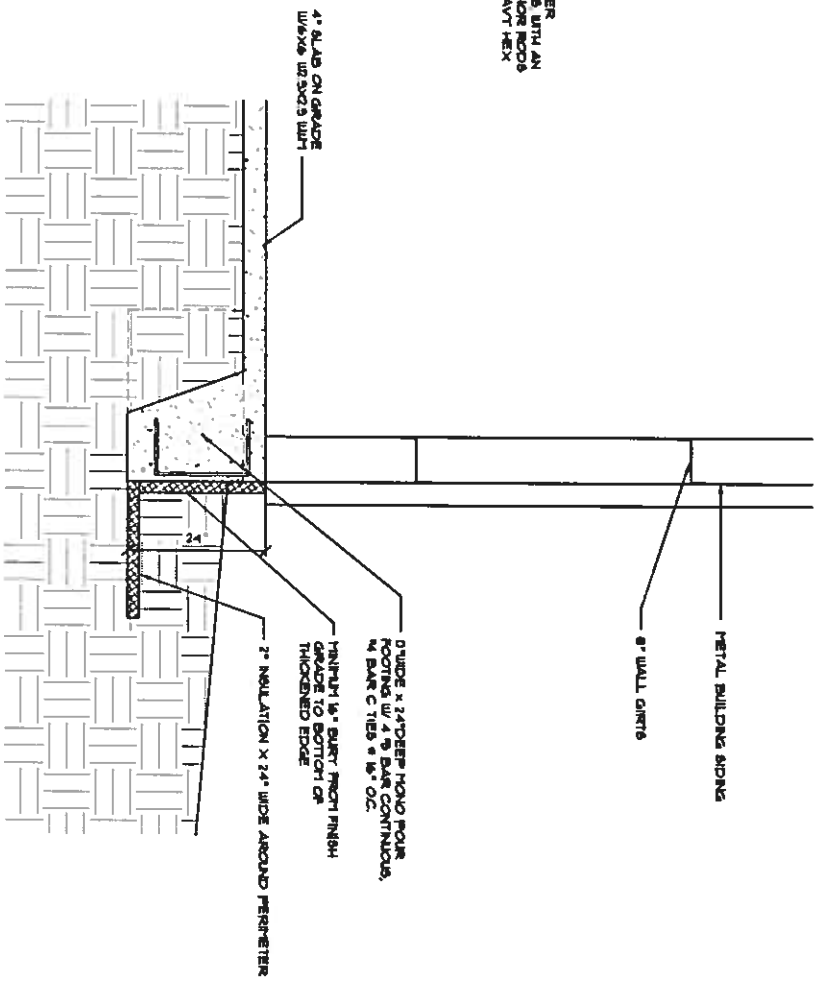
AS-BUILT

THESE AS-BUILT DRAWINGS WERE PRODUCED FROM INFORMATION PROVIDED BY THE CONTRACTOR. OIEN ASSOCIATES INC. HAS NO RESPONSIBILITY FOR THE ACCURACY OF THESE AS-BUILTS

1 CONTROL JOINT DETAIL



ANCHOR BOLTS
PROVIDE ANCHOR BOLTS IN THE DIAPHRAGM WALLS. THE BOLTS SHALL BE 1/2\"/>



2 Typical Pilaster Detail

3 Typical Endwall/Grade Beam Detail

AS-BUILT

THESE AS-BUILT DRAWINGS WERE PRODUCED FROM INFORMATION PROVIDED BY THE CONTRACTOR. OIEN ASSOCIATES INC. HAS NO RESPONSIBILITY FOR THE ACCURACY OF THESE AS-BUILTS

FOUNDATION DETAILS

CAMP CARROLL, JBER
BUILDING #57226
ADDITION

Oien Associates, Inc.
Construction Management Engineering Inspections
1637 Henson Drive Eagle River, AK 99571
Phone: (907) 634-0907 Fax: (907) 634-0908 email: bohemag@oien.com

GDM inc.
ARCHITECTURE • PLANNING

JOB NO. 32523
S2.1

DATE: 10 OCT 2014

LEGEND	DUCTWORK LEGEND	LOGIC
 WASTE VENT PIPING COLD WATER HOT WATER SEE ABBREVIATIONS PIPE UP PIPE DOWN TEE UP TEE DOWN CAP UNION DIRECTION OF FLOW BALL VALVE CHECK VALVE GAS SHUT-OFF VALVE PRESSURE/TEMPERATURE RELIEF VALVE CLEANOUT FLOOR CLEANOUT FLOOR DRAIN	 EXHAUST AIR UP & DOWN SUPPLY AIR UP & DOWN RETURN AIR UP & DOWN ROUND DUCT UP & DOWN VOLUME DAMPER TURNING VANES DUCT SIZE (1ST FIGURE - SIDE SHOWN) (2ND FIGURE - SIDE NOT SHOWN) FLEXIBLE DUCT THERMOSTAT	 DETAIL NUMBER SHEET LOCATED ON TAG SHEET NOTES CONNECTION - NECK SIZE DIFFUSER OR GRILLE TYPE ABBREVIATIONS ADA AMERICAN WITH DISABILITIES ACT GUIDELINES AFG ABOVE FINISHED GRADE ALPS ALPINES AHL-X AIR HANDLING UNIT DESIGNATOR APD ARCHITECTURAL BDD BACKDRAFT DAMPER BTUH BRITISH THERMAL UNIT/HOUR C/A COMBUSTION AIR CFM CUBIC FEET PER MINUTE CW COPPER CW COLD WATER DEC DEGREE

WHA SCHEDULE			
SYMBOL	SIZE	FIXTURE UNITS	
WHA-A	1/2"	1-11	
WHA-B	3/4"	12-32	
WHA-C	1"	33-60	

PLUMBING FIXTURE SCHEDULE											
SYMBOL	FIXTURE	MOUNTING	CW	HW/TW	WASTE	VENT	TRAP	BASIS OF DESIGN	MODEL	COLOR	TRIM/REMARKS
P-1	WATER CLOSET-ADA	FLOOR	1	—	3	2	—	KOHLER	K-4368 HIGHCLIFF	WHITE	KOHLER K-4670-C ELONGATED OPEN FRONT SEAT, TOP INLET, SLOW ROYAL 111-1.6 FLUSH VALVE, 1.6 GPF.
P-1A	WATER CLOSET-ADA	FLOOR	—	—	3	—	—	KOHLER	K-4368 HIGHCLIFF	WHITE	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-1B	WATER CLOSET	FLOOR	—	—	3	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-2	LAVATORY-ADA	WALL	1/2	1/2	2	1-1/2	1-1/4	KOHLER	K-2005-KINGSTON	WHITE	DELTA FAUCET MODEL # 22C101 WITH METAL GRID STRAINER, 0.5 GPM FLOW RATE, TRU-BRO LAVATORY SHIELD, OFFSET P-TRAP FOR ADA COMPLIANCE. PROVIDE POINT OF USE TEMPERING VALVE.
P-2A	LAVATORY	WALL	—	—	2	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-3	URINAL	WALL	—	—	2	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-4	SHOWER	FLOOR	—	—	2	—	2	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-4A	SHOWER	FLOOR	—	—	2	—	2	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-5	SERVICE SINK	FLOOR	—	—	3	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
WB-1	WASHER BOX	WALL	—	—	2	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
FD-1	FLOOR DRAIN	FLOOR	—	—	2	2	2	J.R. SMITH	2005-A	—	ROUND TOP, TRAP PRIOR CONNECTION.
FD-1A	FLOOR DRAIN	FLOOR	—	—	2	2	2	J.R. SMITH	2005-A	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.

ELECTRIC WATER HEATER SCHEDULE					
SYMBOL	WATER MODEL	TYPE	POWER DATA		REMARKS
			WATTS	VOLTS/AMPS/PH	
EW-1	EEMAX/SP2412	ELEC	2400	120 12.4 1	POINT OF USE WATER HEATER. HARDWARE CONNECTION.

GAS FIRED PACKAGED UNIT SCHEDULE																		
SYMBOL	WATER/MODEL	TONNAGE	LOCATION	AREA SERVED	EER (1EER)	COOLING CAPACITY			HEATING			BLOWER		ELECTRICAL			REMARKS	
						ENR	EOR	TOTAL	INP/UT	CFM	ESP (IN. WC)	FAN RPM	INDOOR MOTOR HP	WEIGHT (LBS)	MCA	VOLTS		PHASE
AHL-1	TRANE/YSC09ZF	7.5	GROUND	BUILDING	13.00	62	75	93	200	3000	1.0	903	1.0	847.0	45.10	208	3	PROVIDE 7-DAY PROGRAMMABLE T-STAT W/ ECONOMIZER CONTROL. STANDARD EFFICIENCY UNIT. SEE NOTES BELOW. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.

NOTES:
1. PROVIDE WITH HIGH GAS HEAT OPTION.
2. PROVIDE WITH ECONOMIZER, FREEZESTAT, CIRCUIT BREAKER, RETURN AIR SMOKE DETECTOR, THRU THE BASE ELECTRICAL.
3. UNITS OVER 2000 CFM SHALL INCLUDE SMOKE DETECTOR AND AUDIO VISUAL ALARM IN OCCUPIED SPACE. DETECTOR AND ALARM TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR AND WIRING BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR TO COORDINATE SMOKE DETECTOR AND AUDIO VISUAL ALARM LOCATION WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

FAN SCHEDULE									
SYMBOL	WGR/MODEL	TYPE	SERVICE	CFM	ESP	MOTOR DATA			REMARKS
ET-1	COOK/DC-720	CETILING	RESTROOMS	350	IN W. C.	RPM	WATTS	VOLTS/PH	
					D. 50	1085	136	120/1	DIRECT
									FAN SPEED CONTROLLER. PROVIDE GOOSENECK TERMINATION.

AIR INLET/OUTLET SCHEDULE										
SYMBOL	WATER MODEL	TYPE	USE	MATERIAL	FINISH	CFM	FACE SIZE (IN)	NC	THROW	REMARKS
(A)	1111US/DL-	DRUM LOUVER	S/A	STEEL	---	PER PLANS	18x6	<20	33 FT	DUCT MOUNTED EXPOSED DRUM LOUVER.
(B)	1111US/300RL	SIDEWALL	S/A	STEEL	---	PER PLANS	PER PLANS	<20	---	
(C)	1111US/350RL	SIDEWALL	R/A	STEEL	---	PER PLANS	38x14	<20	---	

PROJECT RECORD DRAWINGS
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GENERAL NOTES

PLANS - THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAWINGS ARE PARTLY DIAGRAMATIC, NOT NECESSARILY SHOWING ALL CONTRACTOR TO COORDINATE EQUIPMENT LOCATION WITH ELECTRICAL PLANS TO AVOID CONFLICT.

COMPLETE PROJECT - THE INTENT OF THIS PROJECT IS TO LET ONE CONTRACT WHICH INCLUDES ALL WORK REQUIRED FOR A COMPLETE JOB. THIS INCLUDES ALL ELECTRICAL, CARPENTRY, PLUMBING, SHEET METAL, PAINTING, CLEAN UP, ETC. AS REQUIRED.

CODE - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL PLUMBING CODE (IPC) AND NATIONAL ELECTRICAL CODE (NEC) CODE (IBC), AS AMENDED BY THE STATE OF ALASKA.

WARRANTY - ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM ACCEPTANCE. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.

ELECTRICAL WORK - ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

EQUIPMENT SUBSTITUTIONS - ALL EQUIPMENT LISTED IS REPRESENTATIVE OF THE STANDARD SIZE, WEIGHT AND QUALITY OF EQUAL. SUBSTITUTIONS WILL BE CONSIDERED IF THE SUBSTITUTES ARE SHOWN TO BE EQUAL OR BETTER QUALITY, INCLUDING EFFICIENCY OF PERFORMANCE, AS ACCEPTED BY THE OWNER.

MATERIALS - ALL MATERIALS SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN OWNER'S APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

OPERATION AND MAINTENANCE MANUAL - PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL, TO INCLUDE MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, AND SCHEMATIC DIAGRAMS OF CONTROL SYSTEMS AS-BUILT, AS WELL AS A SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE.

ACCESS - PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.

EQUIPMENT INSTALLATION: INSTALL ALL EQUIPMENT WHERE NOTED ON THE DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES, ACCESSORIES, SUPPORTS AND CONTROL CONNECTIONS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.

BALANCE - THE CONTRACTOR SHALL BALANCE THE AIR SYSTEM TO THE SATISFACTION OF THE OWNER. AIRFLOWS ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOWS PER AISC RECOMMENDED METHODS.

SEISMIC RESISTANT - ALL EQUIPMENT INSTALLED UNDER THIS PROJECT SHALL BE BRACED FOR A SEISMIC EVENT IN ACCORDANCE WITH THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE. CONTRACTOR TO PROVIDE SEISMIC CALCULATIONS AND SHOP DRAWINGS PREPARED AND SEALED BY A STRUCTURAL ENGINEER TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL.

PIPING

BURIED WASTE AND VENT PIPING - ABS PIPE: ASTM D2751. FITTINGS: ABS. JOINTS: ASTM D2235, SOLVENT WELD.

ABOVE GRADE WASTE AND VENT PIPING: ABS PIPE: ASTM D2751. FITTINGS: ABS. JOINTS: ASTM D2235, SOLVENT WELD WHERE LOCATED IN A RETURN AIR PLENUM UTILIZE CAST IRON OR COPPER DRY MATERIAL.

DOMESTIC WATER PIPING BURIED - COPPER TUBING: ASTM B42, TYPE K ANNEALED. FITTINGS: ASME B16.22, WROUGHT COPPER. JOINTS: ASTM B32, SOLDER, GRADE 951A. FLUX: ASTM B813.

DOMESTIC WATER PIPING EXPOSED ABOVE GROUND - COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ASME B16.18 CAST BRONZE OR ASME B16.22 WROUGHT COPPER. JOINTS: ASTM B32, LEAD FREE SOLDER, WATER SOLUBLE FLUX.

NATURAL GAS PIPING ABOVE GRADE - STEEL PIPE: ASTM A53, SCHEDULE 40 BLACK. FITTINGS: ASME B16. MALLEABLE IRON, OR ASTM A 234/A234M, FORGED STEEL WELDING TPE. JOINTS: NFPA 54, SCREWED FOR PIPE 2 INCHES AND UNDER AND LOW PRESSURE, OR IF MEDIUM PRESSURE AND OUTSIDE BUILDING, ANSI B31.1, WELDED FOR PIPE OVER 2 INCHES.

PIPING SUPPORTS AND HANGERS - SIZED AND SPACED IN ACCORDANCE WITH THE UPC. INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS.

VALVES AND UNIONS ETC.

BALL VALVES - UP TO 2 INCHES: CLASS 150, BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS CHROME PLATED BALL, TETLON SEALS AND STUFFING BOX RING, BLOW-OUT PROOF STEM, LEVER HANDLE, SOLDER OR TREADED ENDS.

SPRING LOADED CHECK VALVES - IRON BODY, BRONZE TRIM, STAINLESS STEEL SPRING, REMOVABLE COMPOSITION DISC, SCREWED, WAFER OR FLANGED ENDS.

ELECTRIC CONNECTIONS: UNION WITH GALVANIZED OR PLATED STEEL THREADED END, COPPER SOLDER END, WATER IMPERVIOUS ISOLATION BARRIER, CLEAR FLOW PRODUCTS ALLOWED.

FLANGES, UNIONS, AND COUPLINGS - 150 PSIG MALLEABLE IRON UNIONS FOR THREADED FERROUS PIPING, BRONZE UNIONS FOR COPPER PIPE, SOLDERED JOINTS.

GAS ISOLATION VALVE - UP TO 2 INCHES: BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TETLON SEALS AND STUFFING BOX RING, LEVER HANDLE, THREADED ENDS, ASA LISTED.

INSULATION

PIPING: TYPE A: GLASS FIBER, RIGID, MOLDED, NON-COMBUSTIBLE INSULATION; ANSI/ASTM C547. 'K' VALUE OF 0.24 AT 750 DEG F, RATED TO 850 DEG F, VAPOR RETARDER JACKET OF KRAFT PAPER BONDED TO ALUMINUM FOL. JOHNS-MANVILLE "MICRO-LOK" OR EQUAL.

PIPING	TYPE	SIZE, IN	INSULATION THICKNESS, IN
DOMESTIC WATER	A	ALL SIZES	1"
PLUMBING VENT THROUGH ROOF	A	ALL SIZES	1"
PIPING EXPOSED TO FREEZING	A	ALL SIZES	2"
BURIED PIPING	A	ALL SIZES	1"

VAPOR BARRIER JACKETS - KRAFT REINFORCED FOIL VAPOR BARRIER WITH SELF SEALING ADHESIVE JOINTS.

DUCT INSULATION: TYPE B: EXTERIOR FSK DUCT WRAP: FLEXIBLE GLASS FIBER; ANSI/ASTM/C552; COMMERCIAL GRADE; 'K'-VALUE OF 0.27 AT 75 DEG F; RIGID FIBER BOARD; ANSI/ASTM C612. 'K' VALUE OF 0.24 AT 75 DEG F; 0.00035 INCH FOIL SCAM FACING; JOHNS-MANVILLE "MICROLOITE" CERTANTITE "B" BOARD OR EQUAL.

TYPE C: DUCT UNDER FLEXIBLE GLASS FIBER; ANSI/ASTM C1071; 'K' VALUE OF 0.24 AT 75° F; COATED AIR SIDE FOR MAXIMUM 5,000 FT./MIN. AIR VELOCITY, UL LISTED ADHESIVE GALVANIZED STEEL PINS; JOHNS-MANVILLE "PERMACOTE UNICOUSTIC" OR APPROVED EQUAL.

DUCTWORK	TYPE	FINISH	INSULATION THICKNESS, IN
EXHAUST AND RELIEF DUCTS	B	FSK	2"
SUPPLY AND RETURN PLenums	C		2"

EXTERIOR DUCTWORK: SEAL DUCTWORK WATERIGHT.

IDENTIFICATION

IDENTIFICATION - LABEL ALL EQUIPMENT WITH HEAT RESISTANT LAMINATED PLASTIC LABELS HAVING ENGRAVED LETTERING 1/2" HIGH. IF ITEMS ARE NOT SPECIFICALLY LISTED ON THE SCHEDULES, CONSULT THE ENGINEER CONCERNING DESIGNATION TO USE. SETON ENGRAVED SETON-PLY NAMEPLATES OR EQUAL. IDENTIFY PIPING TO INDICATE CONTENTS AND FLOW DIRECTION OF EACH PIPE EXPOSED TO VIEW BY A LABELED SLEEVE OR PIPE MARKER IN LETTERS READABLE FROM FLOOR AT LEAST ONCE IN EACH ROOM AND AT INTERVALS OF NOT MORE THAN 20' APART AND ON EACH SIDE OF PARTITION. PENETRATIONS: COLORING SCHEME IN ACCORDANCE WITH ANSI A13.1-1981, SETON OPTI-CODE OR EQUAL.

DUCTWORK

LOW PRESSURE DUCTWORK - FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDBOOKS, EXCEPT AS INDICATED. PROVIDE DUCT MATERIAL, GAUGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED.

DUCTWORK - PROVIDE GALVANIZED SHEET METAL RECTANGULAR OR ROUND DUCT WHERE CALLED OUT ON THE PLANS. SEAL ALL DUCT SEAMS AND JOINTS AIRTIGHT. USE TURNING VANES IN ALL SQUARE ELBOWS AND FLAT Oval ELBOWS. INSTALL VOLUME DAMPERS WHERE SHOWN ON THE DRAWINGS. ALL SHEET METAL WORK TO BE CONSTRUCTED, INSTALLED, TESTED AND BALANCED IN ACCORDANCE WITH SMACNA STANDARDS. SUPPORT LOW AND MEDIUM PRESSURE DUCTWORK PER SMACNA GUIDELINES. VOLUME DAMPER - FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

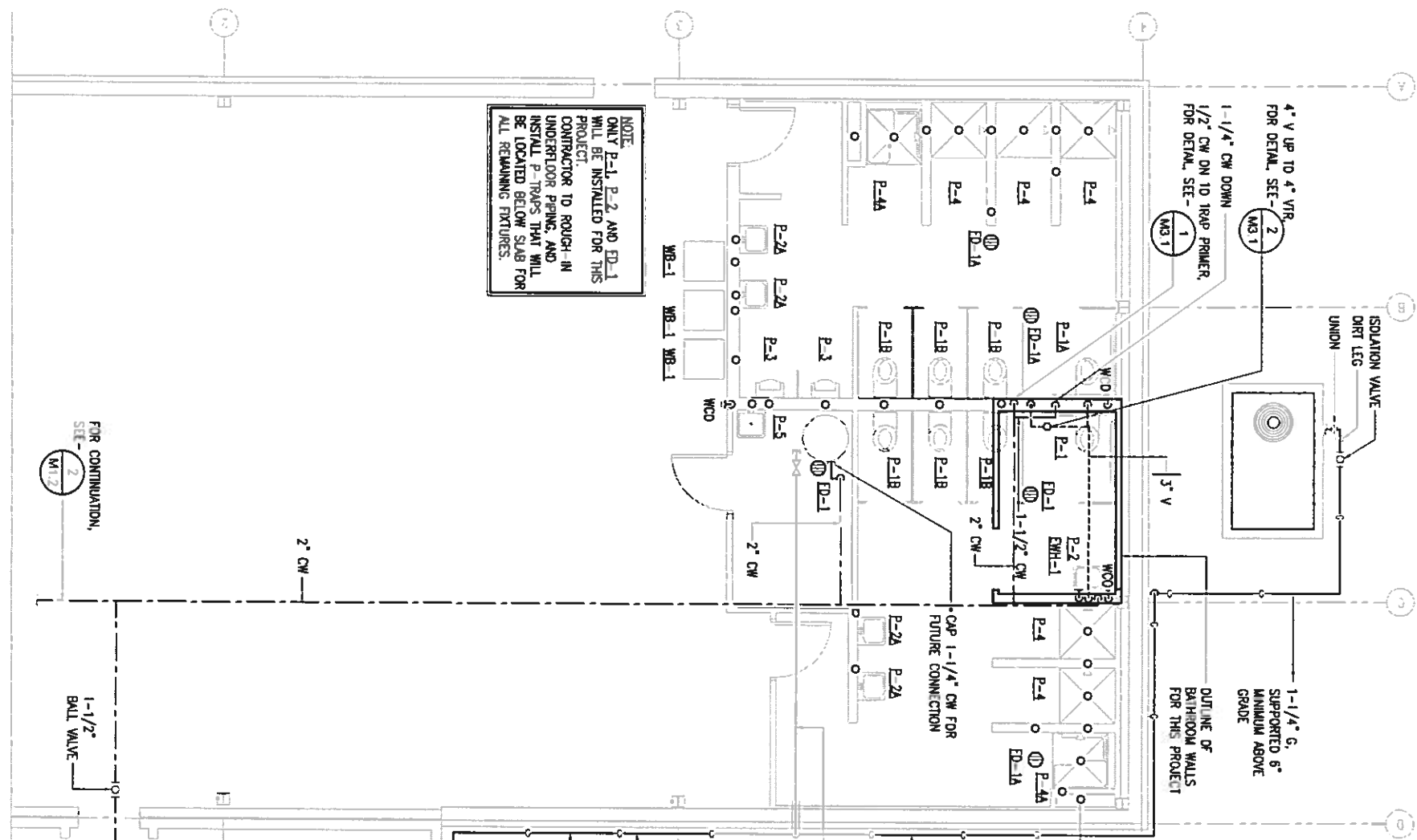
SEQUENCE OF OPERATION

ALL-1: DAY AND NIGHT MODE OF OPERATION WILL BE CONTROLLED BY SEVEN (7) DAY PROGRAMMABLE THERMOSTATS. THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

EE-1: FAN SHALL OPERATE BY MEANS OF A WALL MOUNTED FAN SPEED CONTROLLER.



1 ABOVE FLOOR PLUMBING PLAN



NOTE:
ONLY P-1, P-2 AND P-3
WILL BE INSTALLED FOR THIS
PROJECT.
CONTRACTOR TO ROUGH-IN
UNDERFLOOR PIPING, AND
INSTALL P-TRAPS THAT WILL
BE LOCATED BELOW SLAB FOR
ALL REMAINING FIXTURES.

FOR CONTINUATION,
SEE -
M1.2

2 ABOVE FLOOR PLUMBING PLAN

30'0\"/>

SHEET NOTES:

1 DEMOLISH 1-1/4\"/>

GAS METER FOR GAS
PIPING SCHEMATIC, SEE -
M3.1

WATER SERVICE
ENTRANCE, FOR
PIPING SCHEMATIC
SEE -
M3.1

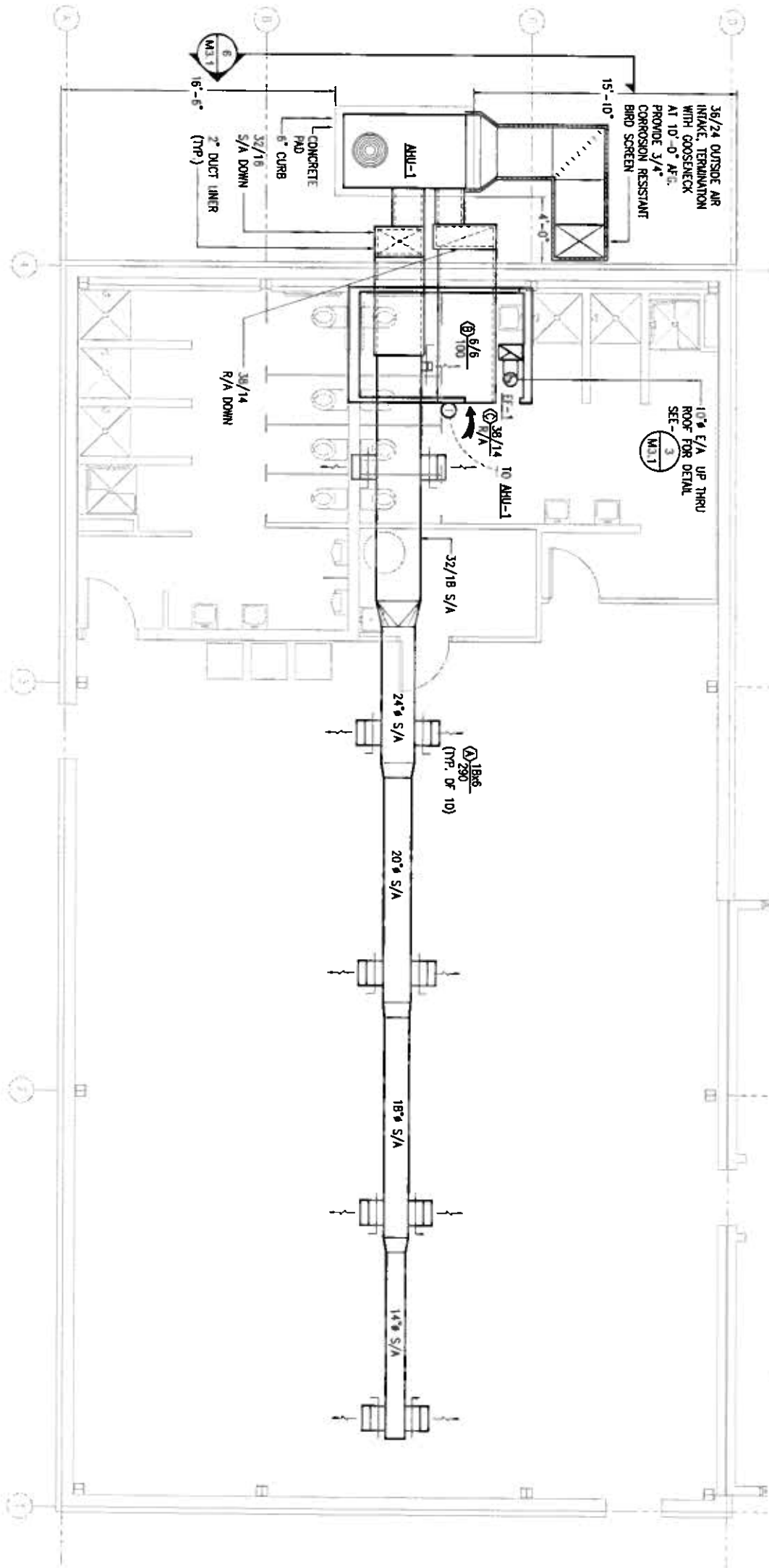
2\"/>

6\"/>

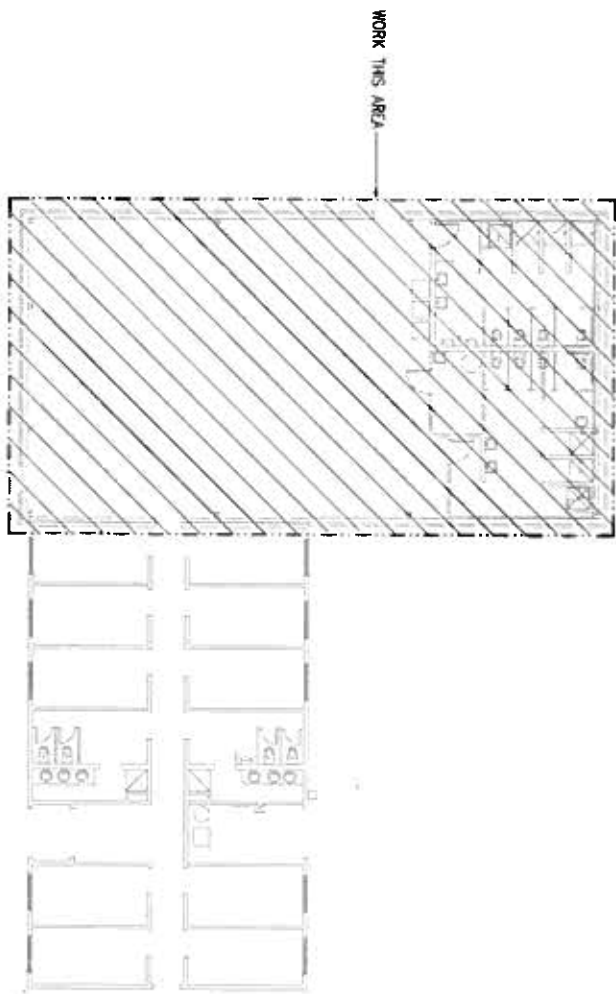
1-1/4\"/>

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1 VENTILATION PLAN



KEYPLAN
NO SCALE



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DR: SR
CK: JAB

JOB NO. 13238

M3.1

CAMP CARROLL, JBER
BUILDING #57226
ADDITION





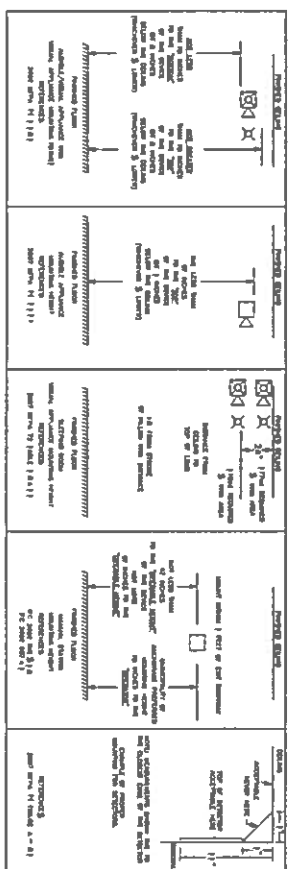
RSA Engineering, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
2522 Arctic Boulevard, Suite 300
Anchorage, Alaska 99503 (907) 278-0621
191 E. Seward Avenue, Suite 191
Wasilla, Alaska 99687 (907) 367-1627

LUMINAIRE SCHEDULE										
TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS		BALLAST		INPUT WATTS
				TYPE	HEIGHT	HO.	WATTS	NO.	TYPE	
A	MULTI PURPOSE AREA	COLUMBIA / WCM4-332-3EPV	16" X 48" FLUORESCENT WRAPAROUND, WIDE DISTRIBUTION, PRISMATIC DIFFUSER, UNIVERSAL VOLTAGE, HIGH POWER FACTOR ELECTRONIC BALLAST, WHITE ENAMEL FINISH.	SURFACE	CEILING	3	3218 3000 K	1	(1) 3 LAMP ELECTRONIC	109
B	LOCKER/ SHOWER/ TOILET	COLUMBIA / LW4-232-EPV	114 SURFACE FLUORESCENT, CORROSION RESISTANT FIBERGLASS HOUSING, GASKETED LENS, UNIVERSAL VOLTAGE, ELECTRONIC BALLAST.	SURFACE	CEILING OR WALL	2	3218 3000 K	1	2 LAMP ELECTRONIC	68
C	EXTERIOR	LUMARK / XT003A-N-PC1	LED WALL PACK, DIE-CAST HOUSING, HINGED/GASKETED DOOR, FULL CUTOFF OPTICAL ASSEMBLY, 2649 LUMENS OUTPUT, INITIAL QA PROTOCOL, DARK BRONZE FINISH.	SURFACE	WALL	N/A	30 LED	1	SOLID STATE ELECTRONIC DRIVER	35
ER	EXIT DISCHARGE AREAS	COOPER / UEL1SD	SELF-CONTAINED EXTERIOR EMERGENCY LIGHTING UNIT, DIE-CAST GASKETED HOUSING, SILVER FINISH, SELF-DIAGNOSIS, IN-CAD BATTERY.	SURFACE	WALL	2	12 9'-0" MR16	N/A	INCKEL CADMIUM BATTERY	10.8
X	EXITS	COOPER / LP7-BK-SD	LED EXIT SIGN, POLYCARBONATE HOUSING, UNIVERSAL VOLTAGE, MOUNTING AND DIRECTIONAL ARROWS, SELF-DIAGNOSTIC ELECTRONICS.	SURFACE	WALL	N/A	N/A	1	SOLID STATE ELECTRONIC DRIVER	1.0

- A. SINGLE PHASE ELECTRICAL SERVICE TO EXISTING STRUCTURE IS TO BE RETIRED AND EXISTING PANEL TO BE RE-FED FROM NEW PANEL 'A'.
- B. EXISTING MONACO FIRE ALARM PANEL TO BE EXPANDED UNDER THIS CONTRACT. SEE FIRE PROTECTION DRAWINGS.
- C. AHU-1: PROVIDE DUCT DETECTOR AND WIRING CONNECTION TO FACP.

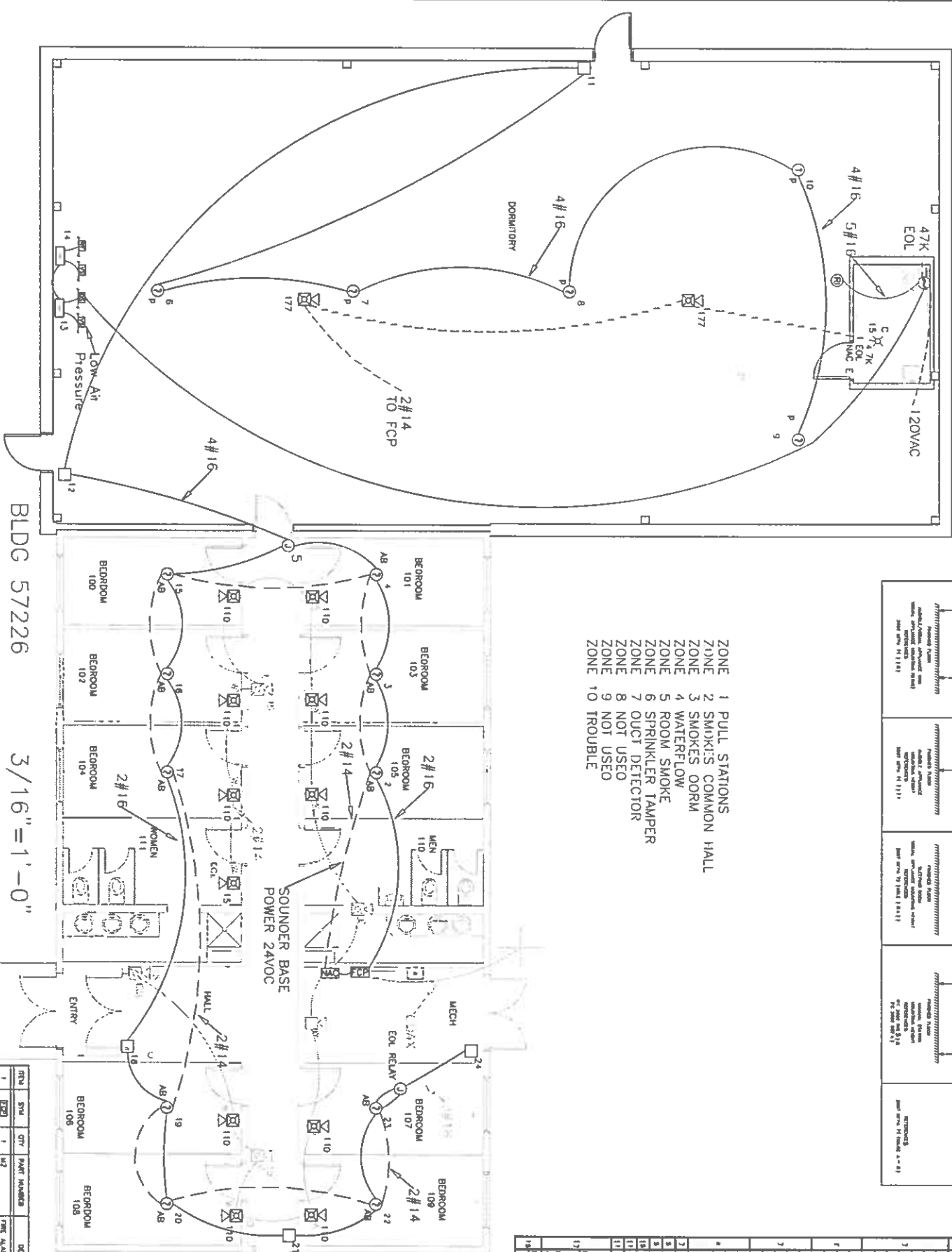


DATE: 14 APR 2014	JOB NO. L3238	POWER PLAN	CAMP CARROLL, JBER	BUILDING #57226 ADDITION		 Engineering, Inc.



THE PLACEMENT OF THE ALUMINUM PIPING, SIMONS, AND/OR BILLS AND/OR SIMONS, FOLLOWED BY A LATER ADDITIONAL PLACEMENT, DOES NOT BE A REQUIREMENT IN ANY CASE. THE PLACEMENT OF THE ALUMINUM PIPING, SIMONS, AND/OR BILLS, WILL BE DETERMINED BY THE LOCAL OFFICIALS ON THE PLANT.

- | | | |
|------|----|---------------------|
| ZONE | 1 | PULL STATIONS |
| ZONE | 2 | SMOKE'S COMMON HALL |
| ZONE | 3 | SMOKE'S DORM |
| ZONE | 4 | WATERFLOW |
| ZONE | 5 | ROOM SMOKE |
| ZONE | 6 | SPRINKLER TAMPER |
| ZONE | 7 | DUCT DETECTOR |
| ZONE | 8 | NOT USED |
| ZONE | 9 | NOT USED |
| ZONE | 10 | TROUBLE |



BLDG 57226

$$3/16" = 1'-0"$$
[illegible][illegible]

1. DO NOT NOTIFY DETECTOR/RESPONDER WITHIN 5'-0" OF AIR SUPPLY (NFPA 720) WHEN 25.3.117
2. RECORD ALL CHANGES TO PUMP AND CONDUIT ROUTING, REDUCE PLACEMENT, WIRING TERMINATIONS, ETC., ON REDUCED DRAWING SET. RETURN THE REDUCED DRAWING SET TO GALT PUMP PROTECTION, INC. FOR CONSTRUCTION AS-BUILTS. NOTIFY GALT PUMP PROTECTION, INC. OF ANY DESIGN CHANGES OR CHANGES PRIOR TO INSTALLATION OR FABRICATION.
3. REFERENCE INSTRUCTION MANUAL DURING INSTALLATION OF FIRE CONTROL PANEL.

ELECTRICAL NOISES

1. WHENEVER LIGHTS ARE OBTAINED IN THESE AREAS FOR ANY PURPOSE, ALL WIRING AND INSTALLATION METHODS MUST COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE (NEC), STATE ADOPTED EDITION, NFPA 72, NATIONAL FIRE ALARM CODE, SHUNT ADAPTATION, THE INTERNATIONAL BUILDING CODE (IBC), 2006 EDITION, AND THE INTERNATIONAL CODE OF PLUMBING 2006 EDITION.
2. ALL POWER SHALL NOT OCCUPY THE SAME RACEWAY AS THE FIRE ALARM CIRCUITS. WHENEVER A WIRE IS USED TO CONNECT TO THE FIRE ALARM FOUNDATION, A SEPARATE CABLEWAY FOR 0.25 INCHES MUST BE MAINTAINED BETWEEN THE FIRE WIRING AND THE FIRE ALARM CIRCUITS UNLESS THE WIRING IS COMPACTION WITH THE FIREPROOFING BUILT IN TO THE FOUNDATION.
3. FIRE ALARM CIRCUIT CONDUCTORS SHALL NOT BE ALLOWED TO BE EXTENDED OR ANY CONDUIT BY ANY MEANS.

- [illegible]

ITEM	SYM	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER	NOTING
1	720	1	M2	PIPE ALUM. FLANG. 1/4"X4"	MOHCO	REPLACE FLANG. IN NEW LAMINA. SHAL.
2	810	1	F709	BOOSTER SHAL.	MOHCO	REPLACE ABOVE PRESSED FLOOR
3	01	3	123-333-00	SHOCK STRAP 9" X 3/8" X 5'	MOHCO	4" square 2-1/2" deep, 4" octagon, 1" girth
4	01	10	123-333-00	SHOCK STRAP 9" X 3/8" X 5'	MOHCO	4" square 2-1/2" deep, 4" octagon, 1" girth
5	01	5	270-370	SHAL. PILL STRUT/SHAL MODULE	EDWARD/SHALCO	1" girth long 3-1/2" deep
6	01	1	-	LIN. OR LATE RAIL/SHAL MODULE	EDWARD/SHALCO	4" square 2-1/2" deep, 4" octagon, 1" girth
7	460	1	-	DUCT 1/4"X20" SHOCK DETECTOR	-	BY OTHERS
8	01	1	-	STRUT 1"X1" FOR DUCT SHOCK DETECTOR	-	BY OTHERS
9	X	1	720-4C-X	WORMSTONE	SHALCO	1" girth, 2" girth, 4" square, 4" or 3-1/2" octagon
10	BR	11	720-4C-X	SHAL. INPU. MODULE	SHALCO	1" girth, 2" girth, 4" square, 4" or 3-1/2" octagon
11	720	2	720-102-00	SPRINKLER SYSTEM IN TUB/FLOW	BY OTHERS	1" girth, 2" girth, 4" square, 4" or 3-1/2" octagon
12	720	1	-	SPRINKLER SYSTEM SURVEILLANCE	BY OTHERS	-
13	720	1	-	SPRINKLER SYSTEM LOW AL. PRESSURE	BY OTHERS	-
14	720	1	-	DUCT SHOCK DETECTOR SHAL.	BY OTHERS	-

2006 INTERNATIONAL FIRE CODE
FOR PROFESSIONAL CERTIFICATES

5. INTERNAL CIRCUIT (IC): WIRE TO BE 1/16 IN. MINIMUM AND STRAIGHT
6. ADDRESSABLE WARNING CIRCUIT (A.W.C.): WIRE TO BE 1-UTP/16 IN. MIN.
7. PANELS TO BE MOUNTED AT 72" TO TOP AFF.
8. DISPLAY DEVICES ARE EXISTING (NO CHANGE)
9. UTP-INSTRUMENTED TWISTED PAIR, STP-SHIELDED TWISTED PAIR

SHEET NOTES

12. POWER SHALL NOT BE CONNECTED TO THE FIRE CONTROL PANEL UNTIL A REPRESENTATIVE OF GAS FIRE PROTECTION INC. IS PRESENT.
13. TO AVOID CONFLICTING SPACE REQUIREMENTS WITH THE SYSTOL BATTERIES, DO NOT PLACED THE BOTTOM OF THE FIRE CONTROL PANEL.
14. ALARMION BOXES COVERS SHALL BE PAINTED RED
15. PAINTING UP OR DOWN FLAG ON SCOOTER PANELS
Painting Up -
1. Safety 4C
2. Safety 4C
3. Safety 4C
Painting Down -
1. Disconnect Interspace
2. Disconnect 4C Power

9. THE FIRST ALARM SYSTEM PANEL, GROUND CONNECTION SHALL BE A CONTINUOUS CIRCUIT AND BE CONNECTED TO THE SOUND SIGNAL. CORRECT CIRCUIT IS NOT ACCEPTABLE.
10. INDICATOR OF WIRE ROUTING SHOWN ON THE DRAWINGS IS DISAPPEARING. RECEPTOR AND WIRE END BE IDENTIFIED AS IDENTIFIED BY FIELD CONDITIONS AND CORRESPONDENCE WITH OTHER TRADES.
11. ALL WIRING SHALL BE IDENTIFIED WHERE SPECIFIED OR LABELED ON TERMINALS. WIRING SHALL BE NEAT, STRAIGHT, FREE HANGERS OR BY OTHER SUITABLE MEANS.

ENGIN, THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PREVIOUSLY IDENTIFIED AT THE FIRE ALARM CONTROL

- [illegible]

TD INSTALLATION OR FABRICATION.

3. MODIFICATIONS TO DODGE PLACEMETER, wiring, terminations and labels shall be approved by Owner prior to protection from use.

3. ALL CABLE SHALL BE TYPE FPL, PLR, OR PLS EXCEPT AS ALLOWED BY SUBSTITUTION PER NAPA TO. TYPE FPL SHALL

- [illegible]

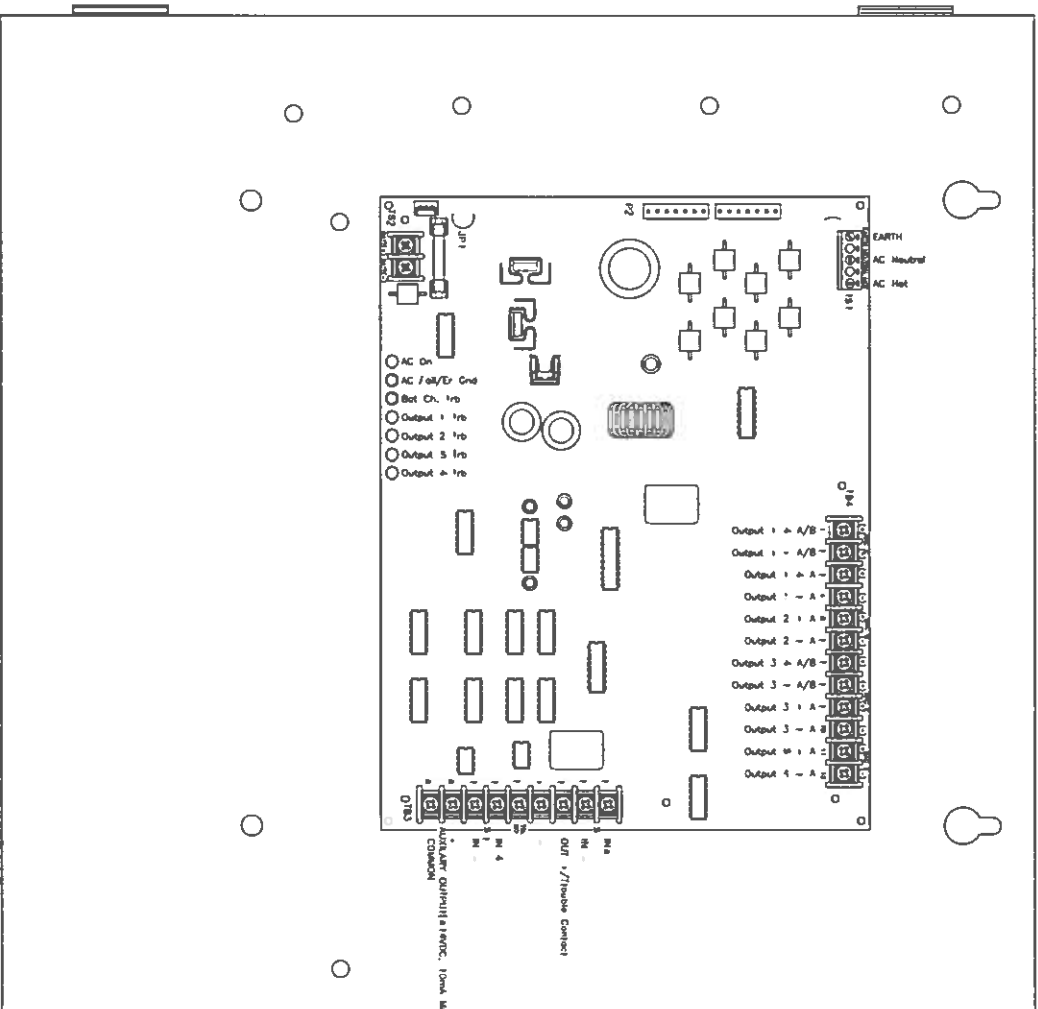
ONLY. ALL WIRING AND INSTALLATION METHODS MUST COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE (NEC) 2002 EDITION.

- [illegible]

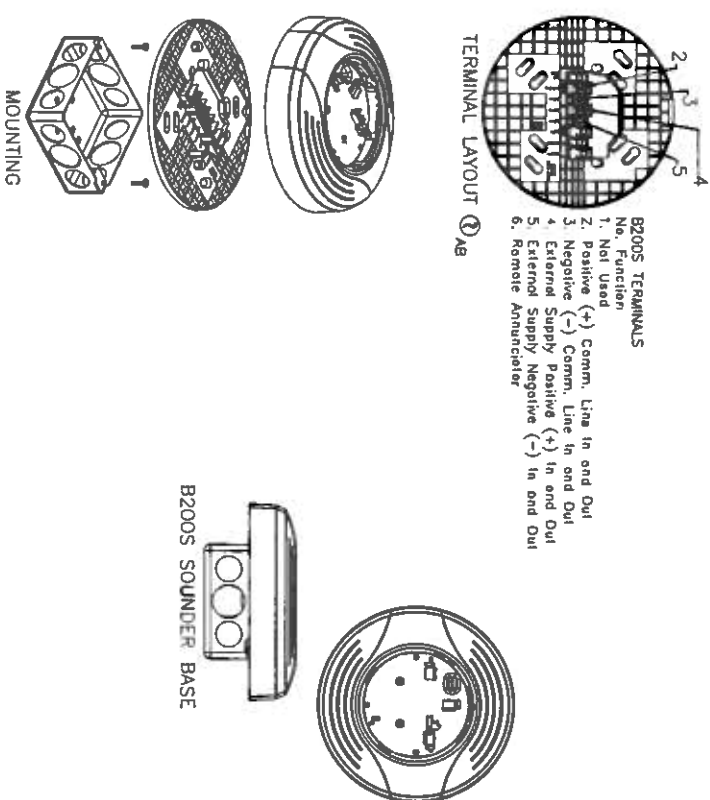
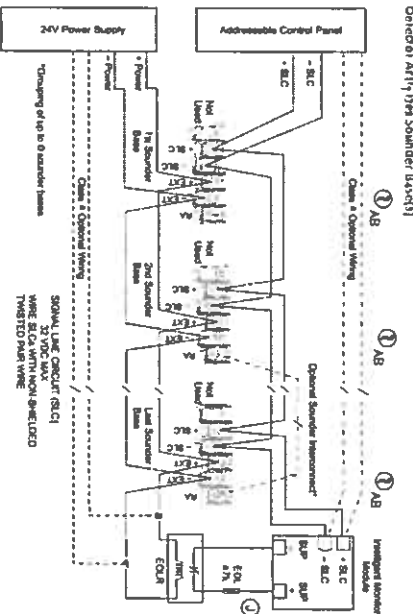
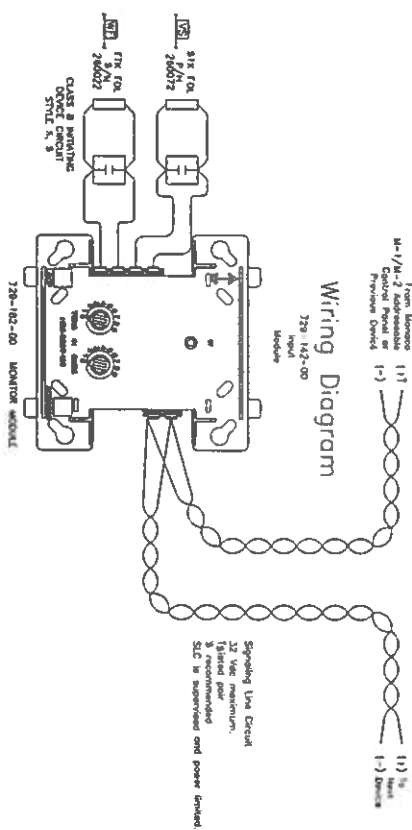
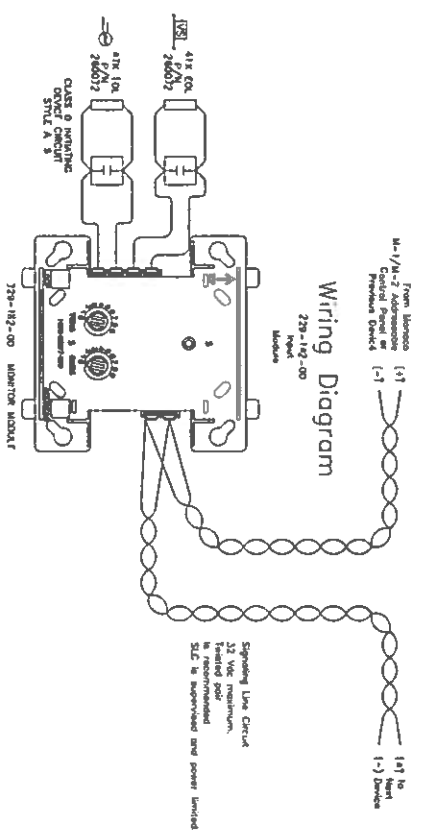
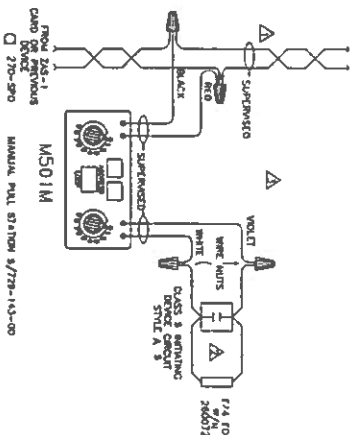
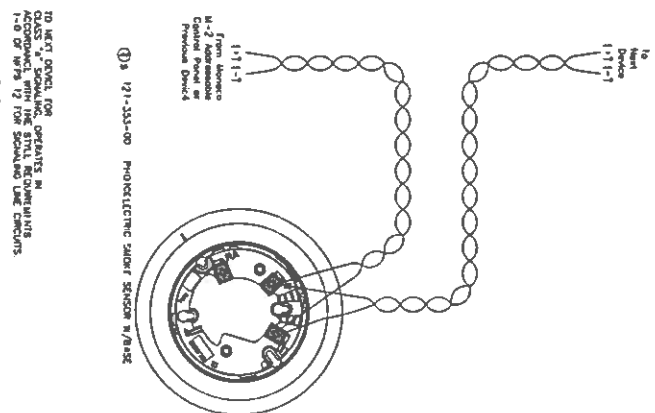
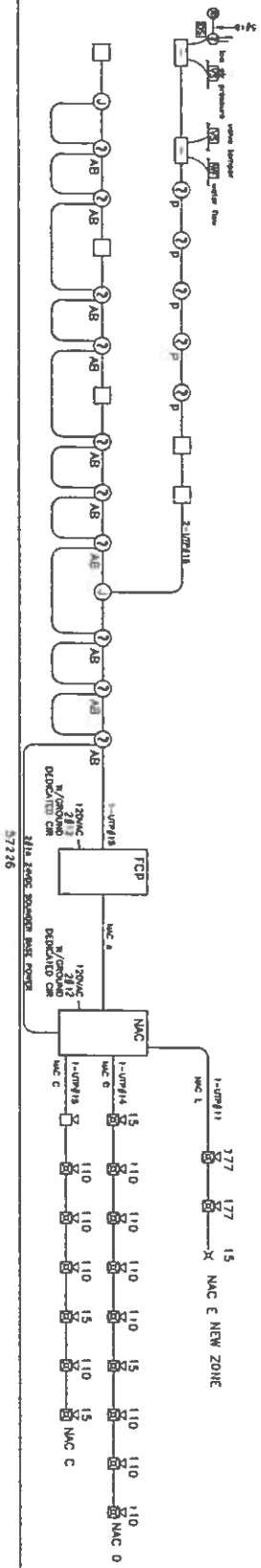
1 DO NOT INSTALL PROTECTIVE APPARATUS WITHIN 5'-0" OF AIR


S:\Logos\Company Logos\GMR logoEDTECH.jpg						PROJECT NAME		DESIGN CRITERIA		AS-BUILT 10/21/13 AC Permit #66-005 Jim Luke	
6108 MockKey Street ANCHORAGE, AK. 99518 PHONE (907)336-5000 FAX (907)336-5050						57226 W12WB-10-G-0000-0010 Camp Carroll JBER, AK 100% DRAWINGS		NFPA T2		Jim Luke	
CONTRACT WITH Megawatt						DRAWING TITLE		APPROVALS			
						5726 FLOOR PLANS		<input type="checkbox"/> CITY FM <input type="checkbox"/> FM <input type="checkbox"/> STATE FM <input type="checkbox"/> ISO <input type="checkbox"/> ARCH <input type="checkbox"/> IRI <input type="checkbox"/> OTHER <input type="checkbox"/> WSRB			
JOB NO						PLOT DATE		FILE FORMAT			
13680						04/23/14		ACAD 2014			
SHEET NO						DATE		SCALE		DRAWN BY	
1 OF 3						10/31/13		AS-NOTED		JIM LUKE	
FILE NAME						FILE NAME		FILE NAME		FILE NAME	
-						-		-		-	

1287	REPORT COVERING PANEL
1288	REPORT ASSUMPTIONS
1289	WALL BOARDS PANEL
1290	POWER SUPPLY
1291	DO NOT MOUNTED ABOVE DETECTOR
1292	DO NOT MOUNTED ABOVE DETECTOR
1293	DO NOT MOUNTED ABOVE DETECTOR
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FCPS-24FS Power Supplies



<div> 6108 MacKay Street ANCHORAGE, AK. 99518 PHONE (907)336-5000 FAX (907)336-5050</div>										<div>PROJECT NAME 57228 W-28U-10-D-0008-0010 Camp Carroll JBER, AK 100% DRAWINGS</div>										<div>DESIGN CRITERIA NFPA 72</div>										<div>DRAWING TITLE DETAIL PAGE B</div>																																																																					
CONTRACT WITH Megawatt										<div>APPROVALS <input type="checkbox"/> CITY FM <input type="checkbox"/> FM <input type="checkbox"/> STATE FM <input type="checkbox"/> ISO <input type="checkbox"/> ARCH <input type="checkbox"/> IR <input type="checkbox"/> OTHER <input type="checkbox"/> WSRB</div>										JOB NO 13680										SHEET NO 3 of 3										DATE 10/31/13										SCALE AS-NOTED										DRAWN BY JIM LUKE										FILE NAME -										PLOT DATE 04/23/14										FILE FORMAT ACAD 2014									

SECTION 15300 - FIRE SPRINKLER SYSTEM
PART 1 - GENERAL

3.1 References

- A. Provide fire protection in accordance with the minimum provisions of the following codes and standards
- 1. Latest UFC 3-600-01 Fire Protection Engineering For Facilities
- 2. NFPA #17 Fire Sprinkler Systems 2010 Edition
- 1.2 System Description
- A. New 3,000 Square Foot One Story Bu King Addition to Existing 2,180 Square Foot One Story Bu King.

- B. New 6" Underground Supply from existing water utility, see noted flow test information performed by Deyon Utilities prior to RFP

C. Dry Pipe System to protect the entire structure.

3.3 Submittals

A. Product Data

- 1. Submit product data for items specified in Part 2 and those products required by performance standards of this Section. Identify catalog designation and/or model number and clearly annotate each salient characteristic and design option of the product. Identify operation characteristics, performance curves and rated capacities of products and devices to show compliance with shop drawings and calculations.

- 2. Product data and shop drawings with calculations shall be jointly submitted for review.

B. Shop Drawings

- 1. Submit Fire Marshal approved sets of shop drawings and with calculations. Drawings and calculations shall include the NICET certification and State of Alaska Permit (IC number) and signature or stamp of a licensed professional engineer and the fire protection contractor's Alaska specialty license number.

- 2. As a minimum, shop drawings shall include piping within this project back to the cold water source as indicated in the hydraulic calculations.

- 3. Shop drawings shall be submitted with information in compliance with NFPA 17 and other performance standards of this Section. Shop drawings shall include but not limited to the following: 1. whether new or existing to be reused:

- a. Name of Contracting Agency, Occupant and Building Permit number.
- b. Section including sheet address and page description.
- c. Detail of connections
- d. Fire Department connections.

- 1. Location of water source, type, routing, depth of bury, and size of supply piping, identify location and size of dry main and whether it is discharge in discharge loop.

- g. Distribution system piping and outlets, include pipe and fitting types.

- h. Detailed ceiling plan showing ceiling heights, construction type, proposed location and type of sprinkler heads, and other ceiling devices such as HVAC diffusers, loud speakers, type and location of light fixtures, etc.

- 1. Inference control between sprinkler system and other trades.

- l. Full height cross section, indicating basic building construction system, sprinkler piping arrangement, and elevation of highest sprinkler head.

- k. Locations of partitions. Identification of full height walls and draft stops.

- l. Location and size of unprotected concealed spaces.

- m. Identification of unheated areas.

- o. Make, model, type, office, finish, and temperature rating of sprinklers and their respective locations. Clearly mark out the design remove area.

- p. The square footage area protected by each system.

- q. Hydraulic node points.

- r. Make, model, and size of the protection control valves, alarm valves, check valves, hose valves and related equipment.

- s. Identify low point drain and inspector test stations.

- 1. Indicate the type and location of piping hangers and equipment supports and seismic bracing.

- u. Make, model, size and locations of pipe couplings, fittings, and flanges.

- v. Make, model, size, power requirement, and location of alarm bells, buzzers, detectors, and alarm panels.

- w. Provisions for flushing and backflow devices system demand forward flow test and test discharge to safe location.

- x. Name, address, and telephone number of the Contractor. If design is by a separate firm, include the name, address, telephone number, and fax number of the design facility.

- y. Complete schedule of room occupancies.

- z. Complete schedule of room occupancies.

- aa. Make, model, and size of protected piping.

- bb. Make, model, and size of protected piping.

- cc. Location of fire rated walls.

- dd. Total number of sprinklers on each dry-type system.

- C. Design Data

- 3. Submit complete hydraulic calculations @ 65% Submittal which were used to prepare the design drawings.

- 2. Product data and shop drawings with calculations shall be jointly submitted for review @55% review.

- 3. Water flow information used for hydraulic calculations.

- a. Waterflow performed by Deyon Utilities and Chinese Fire Protection (1)-20-17. Results were as follows:
Static Pressure - 55 PSI
Residual Pressure - 47 PSI
GPM Flowing - 018
Hydrant # FC-6

- b. Hydraulic calculations shall be accomplished in compliance with the procedures established in NFPA 17. In addition to minimum NFPA 17 standards, a minimum 10 percent pressure and flow buffers are required to be designed into the system.

- O. Operation and Maintenance Manual

- 1. Include manufacturers' descriptive literature, operating instructions, installation instructions, maintenance and repair data, parts listings, and spare parts list.

- E. Maintenance Information and Planned Building Plan

- 3. Coordinate with Section 1672 Addressable Fire Alarm System and provide information (see complete building floor plan showing system control valves, drain stations, alarm and control panels, test valves, and other primary fire protection devices, indicate sprinkler zones, grounds (ies), and types of systems. Submit this plan prior to substantial completion for review by the Contracting Agency.

- 2. Provide three copies of the latest edition of NFPA 25

- 3. Include step-by-step procedures for required operations weekly/monthly/annual service and testing. Provide a complete report of field test operations and results prior to substantial completion.

- F. Record Drawings

- 1. Maintain current and up-to-date As-Built prints of the fire protection system at the job site.

- 2. Approved full size As-built drawings and electronic copy shall be submitted with O&M manuals.

ALL DRAWINGS ARE HALF THE INDICATED SCALE

PART 2- PRODUCTS

2.1 General

- A. Provide only products that are a standard product of a manufacturer regularly engaged in the manufacture of fire protection equipment.

- B. Glycol systems for fire protection shall not be used.

2.2 Labels and Approvals for products

- A. Products UL or FM listed, labeled and specifically approved for the fire protection application, where they are used.

2.3 Manufacturers

A. Sprinkler System Components:

- 1. Reliable.
- 2. Grinnell-Gem.
- 3. Vandy
- 4. Kennedy.
- 5. Milwaukee.
- 6. Potter-Rohrer
- 7. Corlier.
- 8. Dacile.
- 9. Pison Electric.
- 10. Toller.

2.4 Pipe and Fittings

A. Wet Pipe Sprinkler Systems

- 1. Any steel piping system currently recognized by NFPA 13 might be used. It tested for the intended service by UL or FM.

- 2. Whenever piping other than steel schedule 40 is utilized, submit a statement that the piping complies with NFPA 17 standards and that the piping strength is adequate for the application. Piping corrosion resistance rating (CCR) shall be equal or greater than 1.0, equivalent to schedule 40 pipe. Include this CCR data in product submittal.

2.5 Fittings

A. Grooved Fittings, Couplings and Mechanical Tees

- 1. Grooved Fittings: Victaulic, Grovlok, Sprink, cast iron, ductile iron or equal.

- 2. Slip-Fit fittings and couplings utilized for joining branch piping to new main piping shall be "Victaulic" or "Grovlok" brand as required.

- B. Threaded Pipe Fittings: Cast iron 175 pound ANSI B16.4 or ductile iron 300 pound ANSI B16.3

- C. Pipe Flanges: Cast iron Class 150 pound ANSI B16.5

- D. Welded Pipe Fittings: Limited to Weld-locks, Thread-locks, Grov-lok and welded flanges

2.8 Valves and Alarm Assemblies

- A. Valves: UL or FM listed and specifically approved for the fire protection application where they are used

- 1. Central Valves: Fire protection system control valves shall be supervised with switches compatible with the fire alarm system or other methods in full compliance with NFPA 13.

- a. OS&Y Gate Valves: Minimum working pressure 175 psi non-shock cold water, UL listed for the protection

- b. provide supervision of each fire protection control valve, compatible with fire alarm system, Potter Electric Signal Co. Model DSVS-B or approved equal.

- c. Butterfly Valves: UL listed for the protection 175-PSI non-shock cold water, with integrated supervisory switch. Grooved, threaded, or water type acceptable.

- 2. Backflow Device: Backflow assemblies and devices shall have successfully passed the laboratory and field evaluation tests conducted by the University of Southern California Foundation for Cross-Contamin Control and in accordance with the Uniform Plumbing Code requirements.

- B. Provide sprinkler alarm valve assemblies, appropriate to the system, complete with fittings and accessories for proper alarm initiation and interface with fire alarm system. Include inlet and discharge pressure gauges, main drain, and inspector test connection.

C. Dry Pipe Automatic Sprinkler Systems:

- 1. Rise Dry Pipe Valve Assemblies:

- a. Provide sprinkler Dry Pipe valve assembly, appropriate to the system, complete with fittings and accessories for proper alarm initiation and interface with the alarm system.

- b. Include inlet and outlet pressure gauges, and main drain with safe discharge to the outside.

2. Water Flow Detectors:

- a. Provide pressure type water flow detection installed at each system or zone control and for the main system header for multiple zone systems.

- b. Potter electric Model P 8 IGA and P 84DA or equal

- D. Provide electrical alarm and control wiring in accordance with Division 16.

2.8 Sprinkler Heads

- A. Fire sprinkler heads to be symmetrically laid out in each separate room or space

- B. Provide sprinklers as required by NFPA 13 standards. Sprinkler finish and type as follows note: Sprinklers shall be quick response type:

- 3. In areas with surface mounted light fixtures attached to finished suspended ceilings provide standard spray pendant sprinklers, and adjustments to position the sprinkler directly below the light fixture. Sprinklers are exceptions to be chrome finish.

- 2. In areas with recessed lighting flush to the suspended ceiling finish, provide recessed standard spray pendant sprinklers. Sprinklers and accessories to be chrome finish.

- 3. Sprinklers above ceilings and exposed ceiling areas shall be bronze finish, standard spray, upright or pendant type

- 4. Side-wail sprinklers shall be bronze finish in service areas, and chrome through out public areas.

- 5. Dry pendant sprinklers protecting entry vestibules and other areas susceptible to freezing temperatures shall be chrome finish.

- 8. Sprinklers of correct temperature rating shall be installed according to NFPA 13.

- 7. Provide sprinkler wrench for each type of sprinkler.

- 6. Spare sprinkler cabinet to be red steel cabinet manufactured by the sprinkler manufacturer. Size the cabinet in accordance with NFPA 13 standards. Provide sprinklers for the cabinet, representative of the assemblies provided for the system. Mount cabinet on the wall within 60 inches of the sprinkler control room.

- 8. Provide additional sprinklers as required by NFPA 13.

2.8 Pipe and Equipment Junction, Branch, Hangers and Supports

- A. Provide seismic anchoring, bracing, supports, and clearance for equipment, piping and sprinkler heads per NFPA 13 and NFPA 3-600-01. Meet conservative criteria and govern.

2.10 Inspectors Test Connections

- A. Provide inspectors test connection for complete system testing

2.11 Dry System Air Compressor

- A. Provide tank mounted air compressor sized per dry pipe system capacity. GAUT Model or approved equal.

- B. Electrical connection is described in Division 18 work.

PART 3- EXECUTION

3.1 Contractor Coordination

- A. The fire protection contractor shall coordinate his work with the work of other trades to assure timely installation and efficient use of mechanical areas.

3.2 Piping Installation

- A. Install in accordance with code and recommended practices for the type of work. Follow manufacturers installation instructions.

- B. Install piping to conserve building space and route piping around roof hatches, access panels and maintenance access.

- C. Install low point drain stations in accordance with NFPA 17. Identify the location of drain and test stations with signs on access panels, ceiling panels, or walls adjacent to the station, visible from the floor. Discharge test pipes, backflow systems demand flow tests and system main drain to safe location outside.

- D. Seismic protection for piping system shall be in accordance with NFPA 17 standards. Provide clearance at structural penetration, structural elements, and equipment.

- E. Piping shall be concealed in areas with finished ceilings when possible. Coordinate with the other trades to take timely advantage of available space above ceilings.

- F. Provide penetrations where pipes pass through walls, floors, or ceilings. Penetrations shall be in accordance with UL Fire Resistance Directory for "Through Penetration Firestop Systems (XHE2)

3.3 Flushing and Testing

- A. Flush underground service piping and distribution piping before connecting underground piping to sprinkler system.

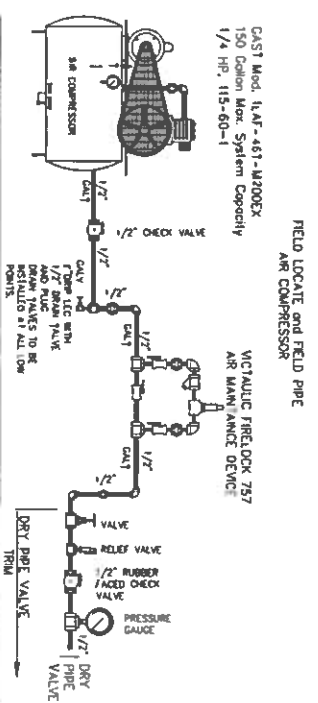
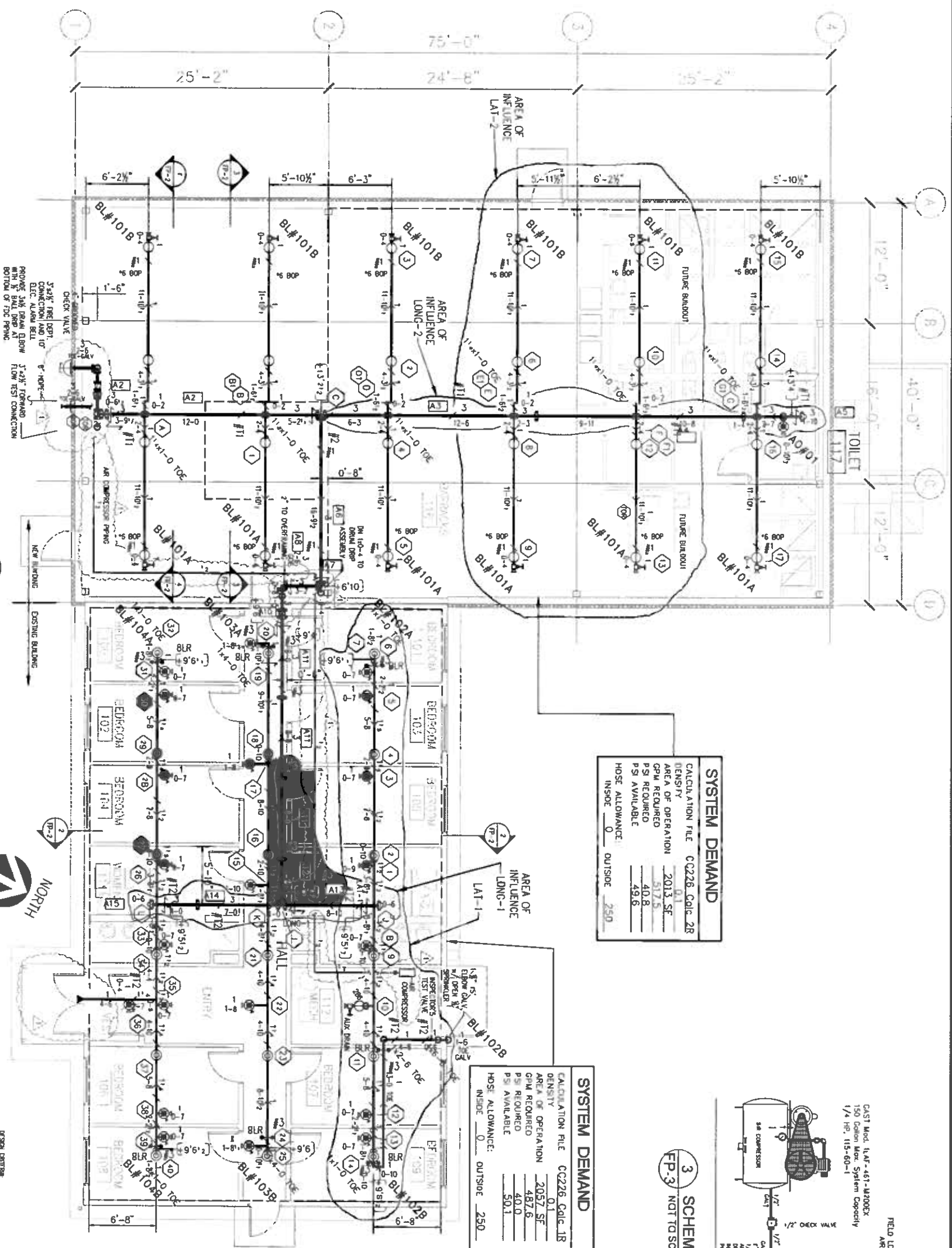
- B. Arrange for proper witnessing of tests as required by Authority Having Jurisdiction and as specified elsewhere

- C. Conduct tests in accordance with applicable codes. Test piping at minimum 200 psig hydrostatic for two hours

FIRE SPRINKLER LEGEND	
	Pipe
	Fire Department Connection
	Grooved Coupling
	Grooved Cross
	Grooved Elbow
	Grooved Tee
	Threaded Cross
	Threaded Elbow
	Threaded Tee
	Flange
	Flex Drop
	Mechanical Tee
	Globe Valve
	OS&Y Valve
	Ball Valve
	Backflow (Backflow)
	Check Valve
	Butterfly Valve
	Riser Manifold
	Dry Valve
	Pressure Reducing Valve
	Electric Bell
	Waterflow Detector
	Hanger
	Hose Valve
	Hose Back
	Hydrant
	Pump
	Sprinkler (Upright)
	Sprinkler (Pendant)
	Sprinkler (Sidewall)
	Dry Barrel Sprinkler
	Supply
	Swey Brace
	4-Way Swey Brace
	Remote Area
	Hydraulic Node

AS-BUILT
9-17-14

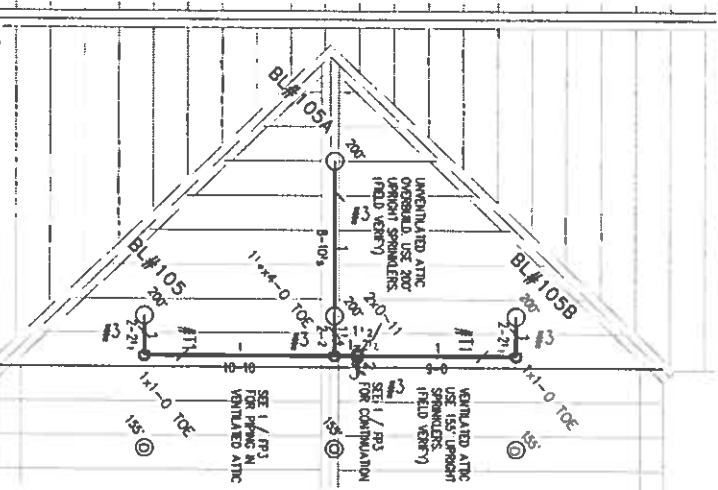




3 SCHEMATIC OF AIR COMPRESSOR
EP-3 NOT TO SCALE




SYSTEM DEMAND	
CATCHATION FILE	C0226, Colic 2R
DENSITY	0.1
AREA OF OPERATION	2013 SF
GPW REQUIRED	5175
PSI REQUIRED	40.8
PSI AVAILABLE	49.6
HOSE ALLOWANCE:	
INSIDE <u>0</u>	OUTSIDE <u>250</u>

SYSTEM DEMAND	
CALCULATION FILE	C226 Calc. 1B
DENSITY	0.1
AREA OF OPERATION	2057 SF
GM REQUIRED	4876
PS REQUIRED	40.0
PS AVAILABLE	50.1
HOSE ALLOWANCE:	
INSIDE 0	OUTSIDE 250



2 ROOF OVERBUILD
SPRINKLER PIPING PLAN
31'6" = 1'-0"

HEAD COUNT

HEAD COUNT					
SPRINKLER TYPE	FINISH	ORIFICE	DEGREE	SYMBOL	QTY
TYCO TY-FRB Upright, Q.R. TY2131	Brass	1/2" (K = 4.2)	155, 200, 286	 	40, 6, 1
TYCO DS-1 DRY Pendent, Q.R. TY2235	Chrome #01	1/2" (K = 5.6)	155		23
TYCO TY-FRB HSW, Q.R. TY3331	Chrome	1/2" (K = 5.6)	155		1
Total This Job = 71					

ALL pipe to be Sch. 10 and 40 Black Steel Pipe. Use Gnuvlok Grooved Fittings and Couplings, with Standard Orange Finish. Use Anvislar CI or MI Threaded Pipe Fittings.

"1/16" DRAWINGS ARE HALF THE INDICATED SCALE

DESIGNATION	DESIGN	SPRINKLER SYSTEM	HOSE	DATA POINT
DESIGN 1-500-D (Example 1, March 2015)	DESIGN 1-500-D	DESIGN 1-500-D	DESIGN 1-500-D	DESIGN 1-500-D
DESIGN 2-750-D (Example 2, May 2015)	DESIGN 2-750-D	DESIGN 2-750-D	DESIGN 2-750-D	DESIGN 2-750-D
DESIGN 3-1000-D (Example 3, July 2015)	DESIGN 3-1000-D	DESIGN 3-1000-D	DESIGN 3-1000-D	DESIGN 3-1000-D
DESIGN 4-1500-D (Example 4, September 2015)	DESIGN 4-1500-D	DESIGN 4-1500-D	DESIGN 4-1500-D	DESIGN 4-1500-D
DESIGN 5-2000-D (Example 5, November 2015)	DESIGN 5-2000-D	DESIGN 5-2000-D	DESIGN 5-2000-D	DESIGN 5-2000-D
DESIGN 6-2500-D (Example 6, January 2016)	DESIGN 6-2500-D	DESIGN 6-2500-D	DESIGN 6-2500-D	DESIGN 6-2500-D
DESIGN 7-3000-D (Example 7, March 2016)	DESIGN 7-3000-D	DESIGN 7-3000-D	DESIGN 7-3000-D	DESIGN 7-3000-D
DESIGN 8-3500-D (Example 8, May 2016)	DESIGN 8-3500-D	DESIGN 8-3500-D	DESIGN 8-3500-D	DESIGN 8-3500-D
DESIGN 9-4000-D (Example 9, July 2016)	DESIGN 9-4000-D	DESIGN 9-4000-D	DESIGN 9-4000-D	DESIGN 9-4000-D
DESIGN 10-4500-D (Example 10, September 2016)	DESIGN 10-4500-D	DESIGN 10-4500-D	DESIGN 10-4500-D	DESIGN 10-4500-D
DESIGN 11-5000-D (Example 11, November 2016)	DESIGN 11-5000-D	DESIGN 11-5000-D	DESIGN 11-5000-D	DESIGN 11-5000-D
DESIGN 12-5500-D (Example 12, January 2017)	DESIGN 12-5500-D	DESIGN 12-5500-D	DESIGN 12-5500-D	DESIGN 12-5500-D
DESIGN 13-6000-D (Example 13, March 2017)	DESIGN 13-6000-D	DESIGN 13-6000-D	DESIGN 13-6000-D	DESIGN 13-6000-D
DESIGN 14-6500-D (Example 14, May 2017)	DESIGN 14-6500-D	DESIGN 14-6500-D	DESIGN 14-6500-D	DESIGN 14-6500-D
DESIGN 15-7000-D (Example 15, July 2017)	DESIGN 15-7000-D	DESIGN 15-7000-D	DESIGN 15-7000-D	DESIGN 15-7000-D
DESIGN 16-7500-D (Example 16, September 2017)	DESIGN 16-7500-D	DESIGN 16-7500-D	DESIGN 16-7500-D	DESIGN 16-7500-D
DESIGN 17-8000-D (Example 17, November 2017)	DESIGN 17-8000-D	DESIGN 17-8000-D	DESIGN 17-8000-D	DESIGN 17-8000-D
DESIGN 18-8500-D (Example 18, January 2018)	DESIGN 18-8500-D	DESIGN 18-8500-D	DESIGN 18-8500-D	DESIGN 18-8500-D
DESIGN 19-9000-D (Example 19, March 2018)	DESIGN 19-9000-D	DESIGN 19-9000-D	DESIGN 19-9000-D	DESIGN 19-9000-D
DESIGN 20-9500-D (Example 20, May 2018)	DESIGN 20-9500-D	DESIGN 20-9500-D	DESIGN 20-9500-D	DESIGN 20-9500-D
DESIGN 21-10000-D (Example 21, July 2018)	DESIGN 21-10000-D	DESIGN 21-10000-D	DESIGN 21-10000-D	DESIGN 21-10000-D
DESIGN 22-10500-D (Example 22, September 2018)	DESIGN 22-10500-D	DESIGN 22-10500-D	DESIGN 22-10500-D	DESIGN 22-10500-D
DESIGN 23-11000-D (Example 23, November 2018)	DESIGN 23-11000-D	DESIGN 23-11000-D	DESIGN 23-11000-D	DESIGN 23-11000-D
DESIGN 24-11500-D (Example 24, January 2019)	DESIGN 24-11500-D	DESIGN 24-11500-D	DESIGN 24-11500-D	DESIGN 24-11500-D
DESIGN 25-12000-D (Example 25, March 2019)	DESIGN 25-12000-D	DESIGN 25-12000-D	DESIGN 25-12000-D	DESIGN 25-12000-D
DESIGN 26-12500-D (Example 26, May 2019)	DESIGN 26-12500-D	DESIGN 26-12500-D	DESIGN 26-12500-D	DESIGN 26-12500-D
DESIGN 27-13000-D (Example 27, July 2019)	DESIGN 27-13000-D	DESIGN 27-13000-D	DESIGN 27-13000-D	DESIGN 27-13000-D
DESIGN 28-13500-D (Example 28, September 2019)	DESIGN 28-13500-D	DESIGN 28-13500-D	DESIGN 28-13500-D	DESIGN 28-13500-D
DESIGN 29-14000-D (Example 29, November 2019)	DESIGN 29-14000-D	DESIGN 29-14000-D	DESIGN 29-14000-D	DESIGN 29-14000-D
DESIGN 30-14500-D (Example 30, January 2020)	DESIGN 30-14500-D	DESIGN 30-14500-D	DESIGN 30-14500-D	DESIGN 30-14500-D
DESIGN 31-15000-D (Example 31, March 2020)	DESIGN 31-15000-D	DESIGN 31-15000-D	DESIGN 31-15000-D	DESIGN 31-15000-D
DESIGN 32-15500-D (Example 32, May 2020)	DESIGN 32-15500-D	DESIGN 32-15500-D	DESIGN 32-15500-D	DESIGN 32-15500-D
DESIGN 33-16000-D (Example 33, July 2020)	DESIGN 33-16000-D	DESIGN 33-16000-D	DESIGN 33-16000-D	DESIGN 33-16000-D
DESIGN 34-16500-D (Example 34, September 2020)	DESIGN 34-16500-D	DESIGN 34-16500-D	DESIGN 34-16500-D	DESIGN 34-16500-D
DESIGN 35-17000-D (Example 35, November 2020)	DESIGN 35-17000-D	DESIGN 35-17000-D	DESIGN 35-17000-D	DESIGN 35-17000-D
DESIGN 36-17500-D (Example 36, January 2021)	DESIGN 36-17500-D	DESIGN 36-17500-D	DESIGN 36-17500-D	DESIGN 36-17500-D
DESIGN 37-18000-D (Example 37, March 2021)	DESIGN 37-18000-D	DESIGN 37-18000-D	DESIGN 37-18000-D	DESIGN 37-18000-D
DESIGN 38-18500-D (Example 38, May 2021)	DESIGN 38-18500-D	DESIGN 38-18500-D	DESIGN 38-18500-D	DESIGN 38-18500-D
DESIGN 39-19000-D (Example 39, July 2021)	DESIGN 39-19000-D	DESIGN 39-19000-D	DESIGN 39-19000-D	DESIGN 39-19000-D
DESIGN 40-19500-D (Example 40, September 2021)	DESIGN 40-19500-D	DESIGN 40-19500-D	DESIGN 40-19500-D	DESIGN 40-19500-D
DESIGN 41-20000-D (Example 41, November 2021)	DESIGN 41-20000-D	DESIGN 41-20000-D	DESIGN 41-20000	

7 8 9 10 11 12 13 14 15 16 17 18 19 20
SCALE 1/8" = 1'-0"

AS-BUILT