

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 6
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 7-June-2022	4. REQUISITION/PURCHASE REQ. NO.	PROJECT NO. (If applicable)	
6. ISSUED BY NAVFACSYSKOM MID ATLANTIC CONTRACTING CORE 9324 VIRGINIA AVENUE NORFOLK VA 23511-3095		Code N40085	7. ADMINISTERED BY (If other than item 6.) Code See Item 6	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			<input checked="" type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO. N4008522R2571
			<input checked="" type="checkbox"/>	9B. DATED (SEE ITEM 11) 10-May-2022
			<input type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended <input checked="" type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (if required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14. ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.			
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATION CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103 (b).			
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:			
<input type="checkbox"/>	D. OTHER: (specify type of modification and authority)			
E. IMPORTANT: Contractor <input type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) P485 DESIGN BID BUILD, F35 SUPPORT CENTER, MARINE CORPS AIR STATION BEAUFORT, SOUTH CAROLINA See Continuation Page				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR (Same as Item 8)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		_____ (Signature of Contracting Officer)		

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

CONTINUATION SHEET

DOCUMENT 00 01 15 LIST OF DRAWINGS

1.2 CONTRACT DRAWINGS

NAVFAC Dwg. Nos. 12854041 and 12854046 are revised as of May 31, 2022. These revised drawings accompany this amendment.

DOCUMENT 00 01 15 LIST OF DRAWINGS

1.2 CONTRACT DRAWINGS

NAVFAC Dwg. Nos. 12854034, 12854042, 12854094 and 12854095 are revised as of June 6, 2022. These revised drawings accompany this amendment.

The purpose of this amendment is to address Pre Proposal Inquiries and incorporate the following revisions to the General Requirements and Statement of Work:

Reference			Question	Response
Page	Section	Paragraph		
49	01 30 01.00 22	1.4.4 a/b	The instructions for the FF&E refer several times to "incorporation and responsibility for owners existing FF&E" and that a list will be supplied of existing items that are intended to be incorporated. Nothing is listed that I can find. IF101- pgs 4 -8 of the Signage Section Drawings does not show any notes about existing furniture. Is there an "Existing Product" list so that we can see the scope of that product ? If not, we will assume the only FF&E is what is shown on Drawings IF101-4 through IF101-B2. Thank you!	There will not be any "existing FF&E" to be incorporated into this project.
5	RFP	4	The RFP instructions state Non-Cost/Price Factors Proposal to be submitted with Price Proposal. I do not see any instructions for a Non-Cost/Price Factors Proposal. Is a Non-Cost/Price Factors Proposal to be submitted?	There are no Non-Cost Factors for this procurement.

DWG CG-001			Drawing CG-001 indicates a pre-loaded area that includes a small area of the foundation. The foundation as shown on SB-101 appears to be a pile supported, structural slab. Is pre-loading required for the area of the building shown or can it be limited to the area requiring concrete pavement?	Preloading is required as indicated.
	01 35 13		Spec. 01 35 13 Special Project Procedures requires FAA notification/possible permit due to the close proximity to the flight line. Has the government notified the FAA of this project and will an FAA permit be required?	We will not need to notify the FAA or receive any FAA permits/approvals as this project is not impacting the flight line. This project is not affecting clear zones or imaginary surfaces. All FAA communications will be performed by the Airfield Manager (GySgt Townsend 843-228-6316).
	01 35 13	3.1.2	Contractor FAA Notification paragraph states that the contractor must submit FAA Form 7460-1 directly to the FAA a minimum of 60 calendar days prior to the start of work and does not specify how long it will take the FAA to provide a response regarding a permit. If the FAA form is submitted the day of award, which is unlikely, there is a minimum of 60 days (2 months) of lost time before work can start. Please consider extending the CCD to accommodate for the loss of up to 2 months of construction duration.	We will not need to notify the FAA or receive any FAA permits/approvals as this project is not impacting the flight line. This project is not affecting clear zones or imaginary surfaces. All FAA communications will be performed by the Airfield Manager (GySgt Townsend 843-228-6316).
	01 35 26	1.7.1.1	Governmental Safety Requirements state that the SSHO may serve as the Superintendent or QCM. Will the government require two individuals to serve the three positions, or may the contractor use a single, qualified individual to serve as the Superintendent, SSHO, and QCM?	Two persons required. We will require two persons to fill the three positions.
	General Requirements	Time for Completion	The General Requirements indicate 365 days for the project completion. We strongly feel that the time for completion is inadequate for the scope of work. After submittals are reviewed/approved (2 - 2.5 months) and 1 month for testing and closeout, the 9 remaining months seems very restricted for a site with extensive barriers, dewatering, water treatment, contaminated soils, concrete piles, and precast walls. Please consider adding 120 days to the Period of Performance.	Time for completion has been changed to 575 days.

			Spec. 07 05 23 stipulates that the contractor must test the air barrier system for air tightness. However, per UFC 3-101-01 all hangar bays, maintenance bays, or similar areas are only required to be inspected and not tested. With the intended use of the facility and the four overhead coiling doors, this facility appears to only require inspection and not testing. Reference Chapter 3, Para. 3-6.3 of UFC 3-101-01. Please confirm that this facility will require air barrier inspection only.	Correct, only inspections of the barrier system are required and not testing per UFC 3-101-01. Spec section 07 05 23 and sheet AE471 and AE472 will be amended.
	07 05 23			
DWG AE-471			Drawing AE-471, Detail B1 indicates an Air Control Layer, Vapor Control Layer, and Precipitation Control Layer. These items have not been used in precast products before. Please provide more information on what these products are and if they are necessary.	These are not separate materials, but functions created by the precast materials per the PCI standard details for precast. Sheet AE471 and AE472 will be amended for additional clarifications.
3 of 21	General Requirements	Time for Completion	PPI #01 - The 365 days specified for completion of this work is insufficient. There is very restricted access to the jobsite, the site is tight and obstructed. It is estimated an extra 30 days will be needed until surcharge, 75 days surcharge, 15 extra days for concrete pilings, 30 days for pile caps/ grade beams/ column piers, 15 days for SOG, 30 days for structural steel, and 15 days for concrete panels. Can 210 additional days be added to CCD?	Time for completion has been changed to 575 days.
DWG C-003 AND C-004	Temp office Trailer		The location shown on C-003 for the contractor trailers is about a mile away from the jobsite. Can the temporary office trailer be placed at the jobsite?	No, given the extremely tight site conditions we would recommend locating the construction trailer off site.
DWG C-003 AND C-004	Laydown Area		The work site is very tight without sufficient area for material laydown. Is there an area in close proximity inside the perimeter security fence available for material laydown?	No, there is no available area within the level 2 secure area for material laydown. We are requiring the enclaving of the construction site with a temporary level 2 fence to eliminate the need for construction workers to secure a level 2 access.
DWG C-004	Work Vehicle		DWG C-004 provides access location for Temp. Const. Personnel Access Gate and material delivery truck gates. Trucks will be escorted to jobsite by gov. personnel during travel through the restricted area. Contractor work trucks are needed on jobsite during each work shift. What are the access requirements for these contractor vehicles?	We are requiring the enclaving of the construction site with a temporary level 2 fence to eliminate the need for construction workers to secure a level 2 access. The enclave access will be through the existing parking lot/loop (building 2146). This will allow contractors to access the construction site from the unrestricted area.

DWG C-004 and CD101	Work Area Description		DWG CD-101 shows a limited area of disturbance that is smaller than the area bounded by the JB and temp. truck access gate on DWG C-004. Which drawing is correct in its description of the area of work.	Will clarify by amendment.
DWG AE202 and AE601	Translucent Panel Specification		The translucent panels detailed on AE 601 appear misdescribed on AE202 as Section 74213 - Metal Wall Panels. Request specification for translucent panels.	The translucent panel system is provided by the metal panel manufacturer as a system which is why it is included in the metal panel section.
			Is this project going to be phased or can we install the flooring at one time.	There will not be any phasing for this project. It is the contractors responsibility to install the flooring. Installing the flooring at one time may provide a better end product.
			Who will be responsible for protecting the floors after the resinous flooring is installed.	Contractor.
			Will background checks be required.	Yes, background checks will be required for all persons working on this project.
			Will the concrete sub be responsible for any necessary sloping.	Contractor means & methods.
			What will the work hours be for the project.	A/E Response: Refer to Spec Section 01 14 00.
			When would be needed to install the flooring.	Contractor means and methods. Typically flooring is installed toward the end of the construction to minimize the need for protection.
3 of 21	MACC_Gen requirements		Project time for completion for task order is 365. We don't think that is enough for this effort, in particular considering all the design requirements added to the KTR, such as dewatering plan, shoring and sheeting plan, soil consolidation time of minimum 75 days, power system coordinated design, etc. We think a minimum project completion of 540 days would be more in line. Please consider this request.	We will prepare an amendment extending time for completion to 575 days.
	05 40 00	1.6.1	Drawing SF101, SF401, SF501 and SF502 show member size and connections for the steel portion of this project. Spec section 05 40 00 Par. 1.6.1 request Metal frame calculations stamped by a PE. Are these calculations to double check existing drawings? Please clarify.	Per the Cold Formed Metal Framing Notes (S-002), Delegated Design Notes (S-002), and the Specifications, the design of the cold formed metal framing is a delegated design. PE Sealed Calculations are required for the cold formed metal design as part of the delegated design. Details on the contract drawings are schematic and do not represent a complete and final design. Contractor must submit a complete design per the contract documents.

	26 28 01.00 10	2.5	Specification calls for a load flow, fault current analysis as well as protective device coordination study to be stamped a by PE. This project only involves two Panelboards fed out of an existing breaker on SW 2146. Breakers type for the panelboards are to be Thermal Magnetic with a minimum AIC rating as shown on drawings. With that said, except for breaker on SW 2146, no adjustment will be applicable. Please clarify is this requirement applies to this project.	This is required because we cannot specify the manufacturer of the new panels and breakers. It is to ensure the contractor provides breakers that can coordinate with the upstream breakers.
61 of 129 AE111	10 90 00.00 50	1.3	Drawing AE111 shows four ceiling fans, but we do not see those listed as equipment to be furnished under the mechanical or electrical drawings. In addition to this, Specification 10 90 00.00 50 indicated to take fiel measurement prior to preparation of drawings and fabrication. Can you please clarify if KTR is to furnish these fans? If we are to furnish, can you please indicate the basis of design?	Per Spec Section 10 90 00.00 50, the basis for the ceiling fan is provided under Part 2, Section 2.1. The ceiling fan is part of the building system to be provided and installed by Contractor. For additional clarity, the ceiling fan is not a high volume low speed fan. This is a standard commercial grade ceiling fan.
109 of 129			Only one thermostat is show to control all of the radiant gas heaters. Based on our experience working on buildings like this, that is not a very efficient way. Normally, RGH will be independently controlled. Please clarify.	Based on the 24/7 operation of the ventilation fans and the limited size of the facility, there will not be thermal zones within the space. Therefore all heaters are controlled from one centrally located temperature sensor. This control strategy has been coordinated with multiple manufacturers.
207	01 33 29		Sustainability Documents reference ATFP standards, we did not see any reference on the drawings (ie : motorized dampers emergency shut off). Please clarify if ATFP standards will be applied to this project. IF they do apply, please clarify how to proceed for bid purposes.	Please clarify document location of PPI reference. Please note the project is classified as unoccupied due to the nature of the use (warehouse) which is exempt from some AT/FP requirements. However, the project is fully compliant with the UFC AT/FP criteria where required and shown in the documents.

GENERAL REQUIREMENTS

Period of Performance for Preconstruction Services:

From: **Time for Completion:** In accordance with FAR 52.211-10 Commencement, Prosecution, and Completion of Work, the duration of this task order shall be 365 calendar days from date of award (includes 15 calendar days for submission and approval of bonds and insurance).

To: **Time for Completion:** In accordance with FAR 52.211-10 Commencement, Prosecution, and Completion of Work, the duration of this task order shall be **575** calendar days from date of award (includes 15 calendar days for submission and approval of bonds and insurance).

(End of Summary)

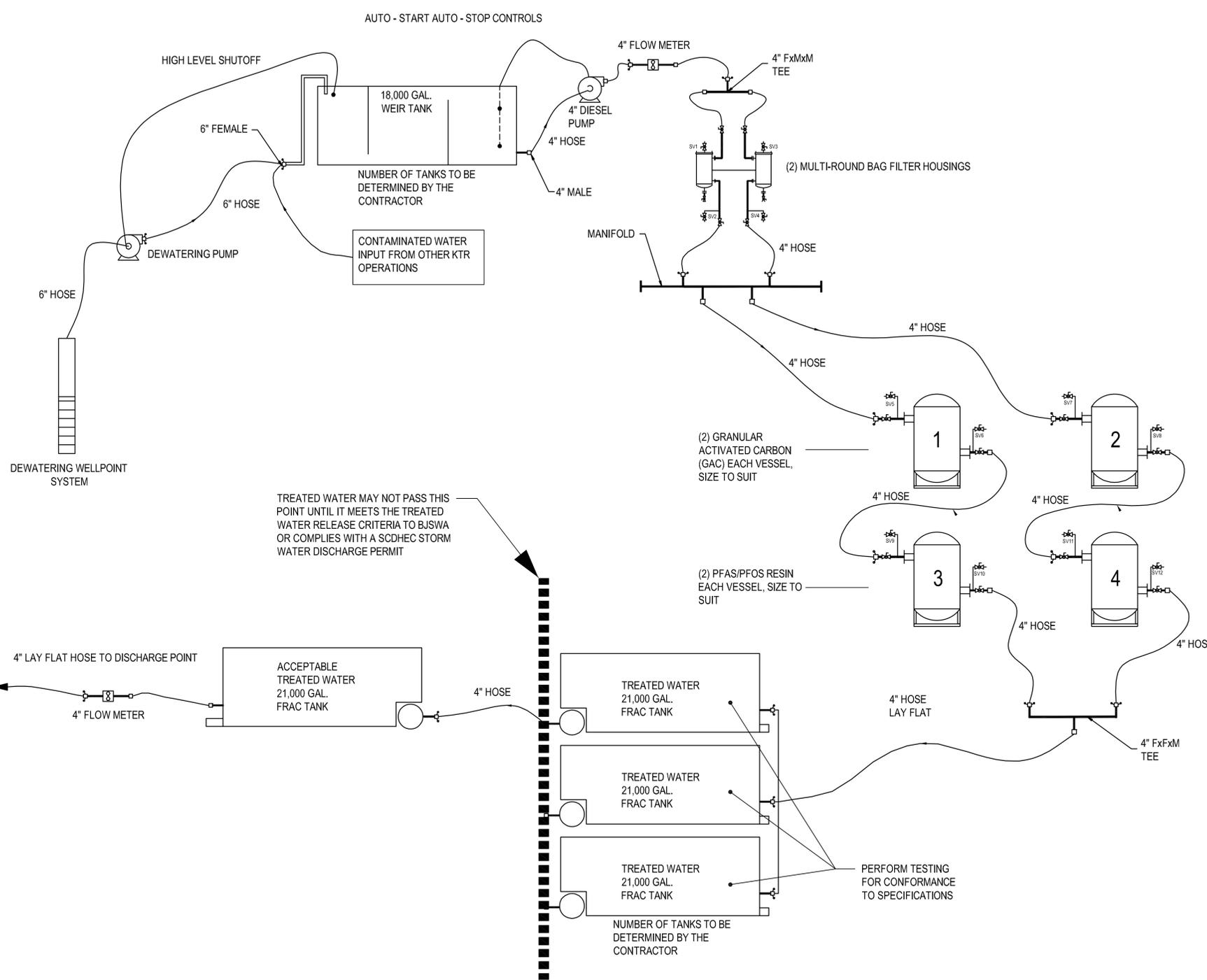
CONTINUATION SHEET

DOCUMENT 00 01 15 LIST OF DRAWINGS

1.2 CONTRACT DRAWINGS

NAVFAC Dwg. Nos. 12854041 and 12854046 are revised as of May 31, 2022. These revised drawings accompany this amendment.

△ APPLIES TO ENTIRE DRAWING



GROUNDWATER TREATMENT CONCEPT DIAGRAM
N.T.S.

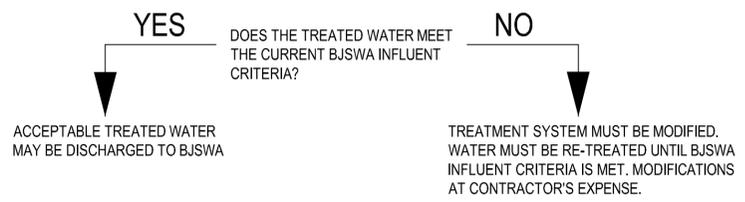
ENVIRONMENTAL GENERAL NOTES

(CE501)

- COORDINATE ALL ENVIRONMENTAL WORK WITH THE MARINE CORPS AIR STATION (MCAS) BEAUFORT NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS (NREAO) OFFICE, SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC) AND BEAUFORT-JASPER WATER AND SEWER AUTHORITY (BJWSA) PRIOR TO WORK. ENVIRONMENTAL SUBMITTALS TO FEDERAL AND STATE AGENCIES MUST BE ROUTED AND APPROVED BY THE NREAO OFFICE FOR SUBMISSION. DO NOT CONTACT SCDHEC WITHOUT SPECIFIC DIRECTION AND AUTHORIZATION FROM NREAO.
- GROUNDWATER SAMPLING HAS BEEN PERFORMED IN THE VICINITY OF THE PROPOSED OPERATIONAL SUPPORT FACILITY. ANALYTICAL RESULTS IDENTIFIED PETROLEUM HYDROCARBON SUBSTANCES AND PER- AND POLYFLUORALKYL SUBSTANCES (PFAS). ALL GROUNDWATER DEWATERING EFFLUENT MUST BE TREATED AS PETROLEUM AND PFAS CONTAMINATED. SEE THE ENVIRONMENTAL REPORT FOR ADDITIONAL INFORMATION. THE ENVIRONMENTAL REPORT IS LOCATED AS AN APPENDIX TO THE SPECIFICATIONS.
- SEE CIVIL DRAWINGS FOR COORDINATION PURPOSES.
- PREPARE PERMITS AND REGISTRATION STATEMENTS ASSOCIATED WITH GROUNDWATER WITHDRAWAL, TREATMENT AND DISCHARGE AS REQUIRED BY SCDHEC AND BJWSA.
- PROVIDE DEWATERING NECESSARY TO KEEP THE CONSTRUCTION AND WORK AREAS DRY. DESIGN, INSTALL, OPERATE AND MAINTAIN AN ADEQUATE SYSTEM. THE SYSTEM MUST BE OF SUFFICIENT SIZE AND CAPACITY TO MAINTAIN A DRY CONDITION WITHOUT DELAYS TO CONSTRUCTION OPERATIONS.
- ALL DEWATERING EFFLUENT AND FIRE LOOP WATER MUST BE EITHER CONTAINERIZED, SAMPLED AND MANAGED ON-SITE AND DISPOSED OF OFF-SITE AT A PERMITTED TREATMENT FACILITY OR TREATED ON-SITE. IF TREATED ON-SITE PROVIDE TREATMENT EQUIPMENT TO TREAT DEWATERING EFFLUENT AND FIRE LOOP WATER. DESIGN, INSTALL, OPERATE AND MAINTAIN AN ADEQUATE TREATMENT SYSTEM. ALL DEWATERING EFFLUENT AND FIRE LOOP WATER MUST BE EITHER PROPERLY DISPOSED OF OFF-SITE AT A PERMITTED TREATMENT FACILITY OR TREATED AND DISCHARGED TO EITHER THE STORM SYSTEM OR THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY (BJWSA). ALL TREATED DEWATERING EFFLUENT AND FIRE LOOP WATER MUST MEET THE DEPARTMENT OF THE NAVY (DON) PFAS STANDARD OF 70 PARTS PER TRILLION (PPT) AND ALL OTHER SANITARY INFLUENT STANDARDS FOR ACCEPTANCE BY BJWSA OR THE OFF-SITE TREATMENT FACILITY OR THE STORM WATER DISCHARGE STANDARDS IN ACCORDANCE WITH SCDHEC. ALL DEWATERING EFFLUENT DISCHARGED TO BJWSA MUST BE PROPERLY METERED.
- THE CONCEPT DRAWING PROVIDED IS AN EXAMPLE OF A PETROLEUM AND PFAS GROUNDWATER TREATMENT SYSTEM. PROVIDE TREATMENT EQUIPMENT TO TREAT DEWATERING EFFLUENT AND FIRE LOOP WATER. DESIGN, INSTALL, OPERATE AND MAINTAIN AN ADEQUATE SYSTEM. TREATED DEWATERING EFFLUENT AND FIRE LOOP WATER MUST BE DISCHARGED TO THE BEAUFORT-JASPER WATER AND SEWER AUTHORITY (BJWSA) AS DESCRIBED BELOW OR TO THE STORM DRAIN IN ACCORDANCE WITH SCDHEC REGULATIONS. ALL TREATED DEWATERING EFFLUENT AND FIRE LOOP WATER MUST MEET THE DEPARTMENT OF THE NAVY (DON) PFAS STANDARD OF 70 PARTS PER TRILLION (PPT) AND ALL OTHER CURRENT SANITARY INFLUENT STANDARDS FOR ACCEPTANCE BY BJWSA, SEE THE "TREATED WATER RELEASE CRITERIA TO BJSWA" BELOW; OR STORM WATER DISCHARGE STANDARDS IN ACCORDANCE WITH SCDHEC.
- SUBMIT A DEWATERING AND TREATMENT PLAN FOR APPROVAL BY THE CONTRACTING OFFICER PRIOR TO INITIATION OF ANY CONSTRUCTION OR EXCAVATION OPERATIONS. THE PLAN MUST SHOW ALL FACILITIES AND EQUIPMENT. THE PLAN MUST ADDRESS SAMPLING AND DISPOSAL OF SPENT MEDIA.
- SEE GEOTECHNICAL REPORT FOR SOIL CONDITIONS TO BE USED TO ESTIMATE GROUNDWATER FLOW CONDITIONS. SIZE GROUNDWATER DEWATERING AND TREATMENT SYSTEM AS REQUIRED FOR CONSTRUCTION TO BE PERFORMED WHILE MEETING ENVIRONMENTAL REQUIREMENTS SPECIFIED/INDICATED.
- THE EXISTING FIRE LOOP WATER IS CONTAMINATED WITH PFAS. THE TOTAL PFAS CONCENTRATION IN THE FIRE LOOP WATER RANGES FROM APPROXIMATELY 48 NG/L TO 40,000 NG/L. THE FIRE LOOP COMMISSIONING IS ESTIMATED TO GENERATE APPROXIMATELY 40,000 GALLONS OF PFAS CONTAMINATED WATER. ALL FIRE LOOP WATER MUST BE COLLECTED AND PROPERLY TREATED PRIOR TO DISCHARGE.
- MANAGE WASTE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING 40 CFR 261 AND 40 CFR 262. COMPLY WITH ALL INSTALLATION AND NAVFAC ENVIRONMENTAL REQUIREMENTS.

TREATED WATER RELEASE CRITERIA TO BJSWA

- MCAS BEAUFORT WILL BE DISCHARGING NON-DOMESTIC WASTEWATER INTO THE BJWSA PORT ROYAL WRF WASTEWATER COLLECTION SYSTEM. DISCHARGES MUST COMPLY WITH PARAGRAPH H.13 INDUSTRIAL PRETREATMENT PROGRAM (IPP). IN ADDITION TO THIS, DISCHARGES MUST COMPLY WITH SEWER USE REGULATION (SUR) AND ANY APPLICABLE STATE AND FEDERAL PRETREATMENT LAWS, REGULATIONS, STANDARDS, AND REQUIREMENTS, INCLUDING ANY SUCH LAWS, REGULATIONS, STANDARDS, OR REQUIREMENTS THAT MIGHT BECOME EFFECTIVE DURING THE DISCHARGE PERIOD. THE WASTEWATER WILL BE DISCHARGED INTO A LOCATION(S) AGREED UPON BY THE GOVERNMENT AND BJWSA, AND AT A FLOW RATE THAT MUST NOT OVERCOME THE CAPACITY OF THE LOCAL WASTEWATER COLLECTION SYSTEM.
- WATER COLLECTED FOR THE PURPOSE OF REMOVING PFOS/PFOA CONTAMINATION CAN BE DISCHARGED TO THE SANITARY SEWER SYSTEM PROVIDED THAT PH RANGES FROM 6.0-9.5 SU AND CONTAMINATION LEVELS ARE BELOW APPLICABLE SCREENING CRITERIA, US EPA LIFETIME HEALTH ADVISORIES (LHAS) AND/OR REGIONAL SCREENING LEVELS (RSLs). THE CURRENT US EPA LHAS ARE 70 PARTS PER TRILLION (PPT) FOR PFOS, PFOA AND PFOS+PFOA. THE DISCHARGE MUST BE RECORDED DAILY AND REPORTED BACK TO BJWSA MONTHLY. DISCHARGES WILL BE LOGGED IN THE DISCHARGE MONITORING REPORT (DMR) FORM ATTACHED. MAXIMUM DISCHARGE RATE CANNOT EXCEED 50 GPM. DISCHARGE TO BE DIRECTED TO SANITARY MANHOLE SHOWN ON CIVIL DRAWINGS.
- CONCENTRATIONS OF THE CONSTITUENTS OF CONCERN WILL BE ANALYZED BY US EPA METHOD 537 MODIFIED (OR THE MOST APPLICABLE DOD APPROVED METHOD FOR THE MATRIX BEING ANALYZED). WATER DISCHARGED TO THE SANITARY SEWER SYSTEM WILL BE BILLED AT BJWSA'S MOST CURRENT COMMERCIAL SEWER RATE, CURRENTLY \$6.59 PER THOUSAND GALLONS, AND IS SUBJECT TO ANNUAL INCREASES AS APPROVED BY THE BJWSA BOARD OF DIRECTORS. THE AMOUNT DISCHARGED WILL BE MEASURED BY STORAGE TANK LEVEL INDICATORS, TOTALIZERS OR OTHER METHOD AGREED UPON BY BOTH THE GOVERNMENT AND BJWSA. MONITORING RESULTS MUST BE SUMMARIZED AND REPORTED TO BJWSA. REPORTS ARE DUE 15 DAYS AFTER THE END OF EACH CALENDAR MONTH AND MUST BE EMAILED TO PRETREATMENT@BJWSA.ORG. CHARGES WILL BE BILLED MONTHLY AND INCLUDED WITH THE MCAS WHOLESALE BILL UNDER LINE ITEM "PRETREATMENT CHARGES".
- THE GOVERNMENT MUST NOTIFY BJWSA OF ANY VIOLATION OF CONTAMINATION LEVELS ABOVE IMMEDIATELY.



NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

DATE	05/31/22
DESCRIPTION	BY AMENDMENT 1
APPROVED	
ACTIVITY	Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, FWD Beaufort, SC via email.
SATISFACTORY TO	DATE 12/17/21
DES	HNA DRW HNA CHK SAB
PM/DM	CJW/SVR
BRANCH MANAGER	DLB
CHIEF ENG/ARCH	EJA
FIRE PROTECTION	DSN
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
MCAS BEAUFORT	BEAUFORT, SC
P-485 F35 OPERATIONS SUPPORT FACILITY (OSF)	
GROUNDWATER TREATMENT CONCEPT DIAGRAM & ENVIRONMENTAL GENERAL NOTES	
SCALE:	NONE
PROJECT NO.:	1362850
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12854041
SHEET	20 OF 129
CE501	
DRAWN/REVISED: 25 AUGUST 2020	

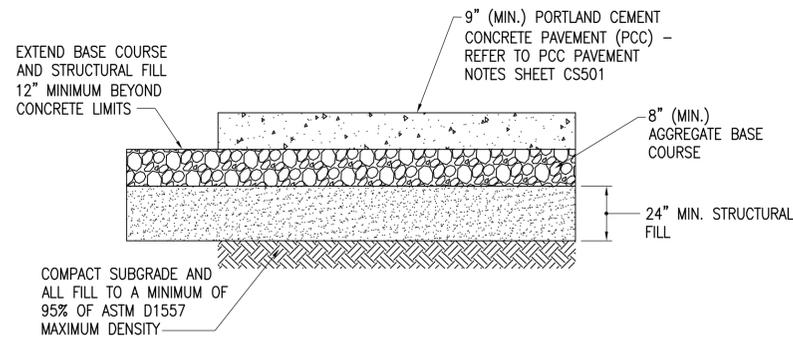
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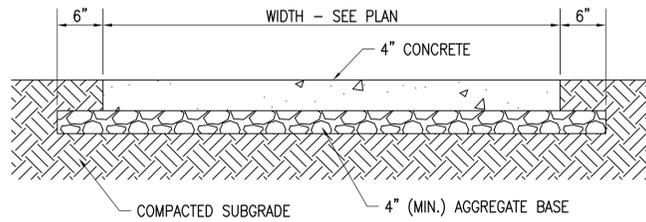
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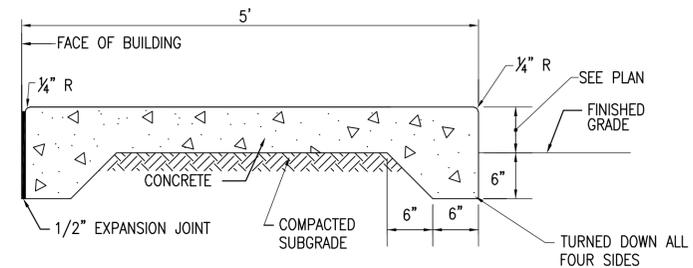
D1 CONCRETE PAVEMENT SECTION
N.T.S.

CONCRETE SIDEWALK NOTES:

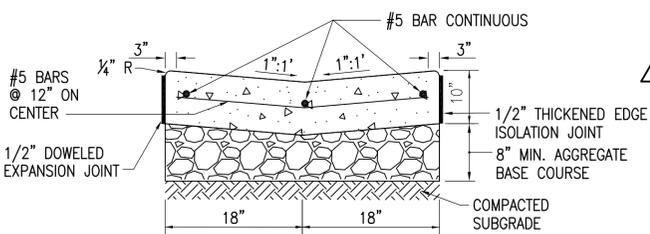
1. PROVIDE CONTRACTION JOINT AT SPACING EQUAL TO WIDTH OF SIDEWALK.
2. CONSTRUCTION COLD JOINTS MAY BE USED IN PLACE OF CONTRACTION JOINTS.
3. EXPANSION JOINT AT STRUCTURES, EXISTING CONCRETE, OBSTRUCTIONS, EVERY 40' OF STRAIGHT RUN, AND AT CHANGES IN DIRECTION, UNLESS OTHERWISE NOTED. RECESS EXPANSION JOINT MATERIAL 1/4" BELOW THE SURFACE. UNLESS NOTED OTHERWISE, EXPANSION JOINT MUST BE 1/2" WIDE.
4. PROVIDE 6X6-W1.4XW1.4 WWF AT MID-DEPTH IN PANELS WITH PENETRATING VALVE BOX, MANHOLE, ETC. ISOLATE STRUCTURE WITH 1/2" PREFORMED EXPANSION JOINT MATERIAL RECESSED 1/4" BELOW SURFACE.



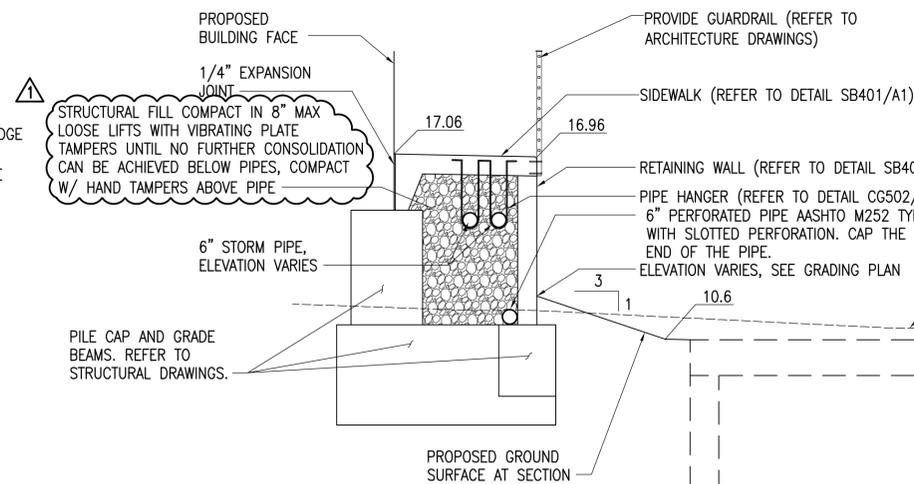
C2 CONCRETE SIDEWALK
N.T.S.



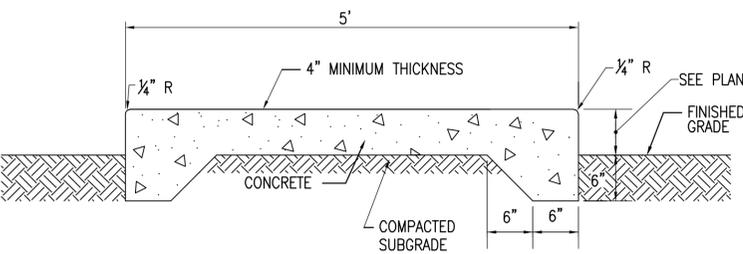
C1 CONCRETE STOOP
N.T.S.



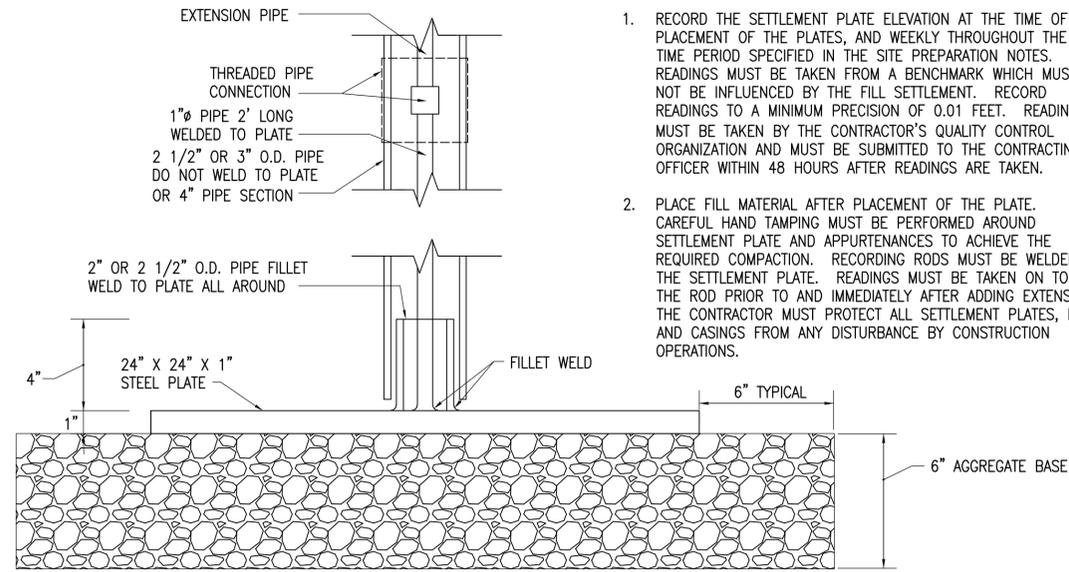
B1 VALLEY GUTTER
N.T.S.



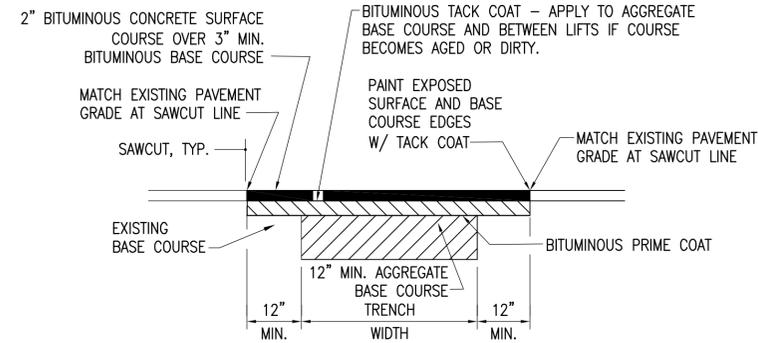
A3 RETAINING WALL SECTION
N.T.S.



A1 THICKENED EDGE SIDEWALK
N.T.S.



D4 SETTLEMENT PLATE DETAIL
N.T.S.



B4 BITUMINOUS PAVEMENT PATCH DETAIL
N.T.S.

MONITORING OF SETTLEMENT

1. RECORD THE SETTLEMENT PLATE ELEVATION AT THE TIME OF PLACEMENT OF THE PLATES, AND WEEKLY THROUGHOUT THE TIME PERIOD SPECIFIED IN THE SITE PREPARATION NOTES. READINGS MUST BE TAKEN FROM A BENCHMARK WHICH MUST NOT BE INFLUENCED BY THE FILL SETTLEMENT. RECORD READINGS TO A MINIMUM PRECISION OF 0.01 FEET. READINGS MUST BE TAKEN BY THE CONTRACTOR'S QUALITY CONTROL ORGANIZATION AND MUST BE SUBMITTED TO THE CONTRACTING OFFICER WITHIN 48 HOURS AFTER READINGS ARE TAKEN.
2. PLACE FILL MATERIAL AFTER PLACEMENT OF THE PLATE. CAREFUL HAND TAMPING MUST BE PERFORMED AROUND SETTLEMENT PLATE AND APPURTENANCES TO ACHIEVE THE REQUIRED COMPACTION. RECORDING RODS MUST BE WELDED TO THE SETTLEMENT PLATE. READINGS MUST BE TAKEN ON TOP OF THE ROD PRIOR TO AND IMMEDIATELY AFTER ADDING EXTENSIONS. THE CONTRACTOR MUST PROTECT ALL SETTLEMENT PLATES, RODS AND CASINGS FROM ANY DISTURBANCE BY CONSTRUCTION OPERATIONS.

DATE	05/31/22
BY	AMENDMENT
DESCRIPTION	1
SCALE	NONE
PROJECT NO.	1362850
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12854046
SHEET	25 OF 129
CS502	

APPROVED: [Signature]

FOR COMMANDER NAVFAC

ACTIVITY

Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Branch, SC in detail.

SATISFACTORY TO DATE 12/17/2021

DES: CAB | DRW: CAD | CHK: ALB

PM/DM: C/JW/SVR

BRANCH MANAGER: DLB

CHIEF ENGINEER: EJA

FIRE PROTECTION: DSN

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC

INDIVIDUAL IN CHARGE: MCAS BEAUFORT

BEAUFORT, SC

P-485 F35 OPERATIONS SUPPORT FACILITY (OSF)

DETAILS

SCALE: NONE

PROJECT NO.: 1362850

CONSTR. CONTR. NO.:

NAVFAC DRAWING NO.: 12854046

SHEET 25 OF 129

CS502

DRAWING REVISION: 25 AUGUST 2020

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FILE NAME: K:\CAD\2024\Amendment 05-31-22\BUDG-P485-1362850-CS502.dwg LAYOUT NAME: CS502 PLOTTED: Wednesday, June 01, 2022 - 4:51pm USER: mlw

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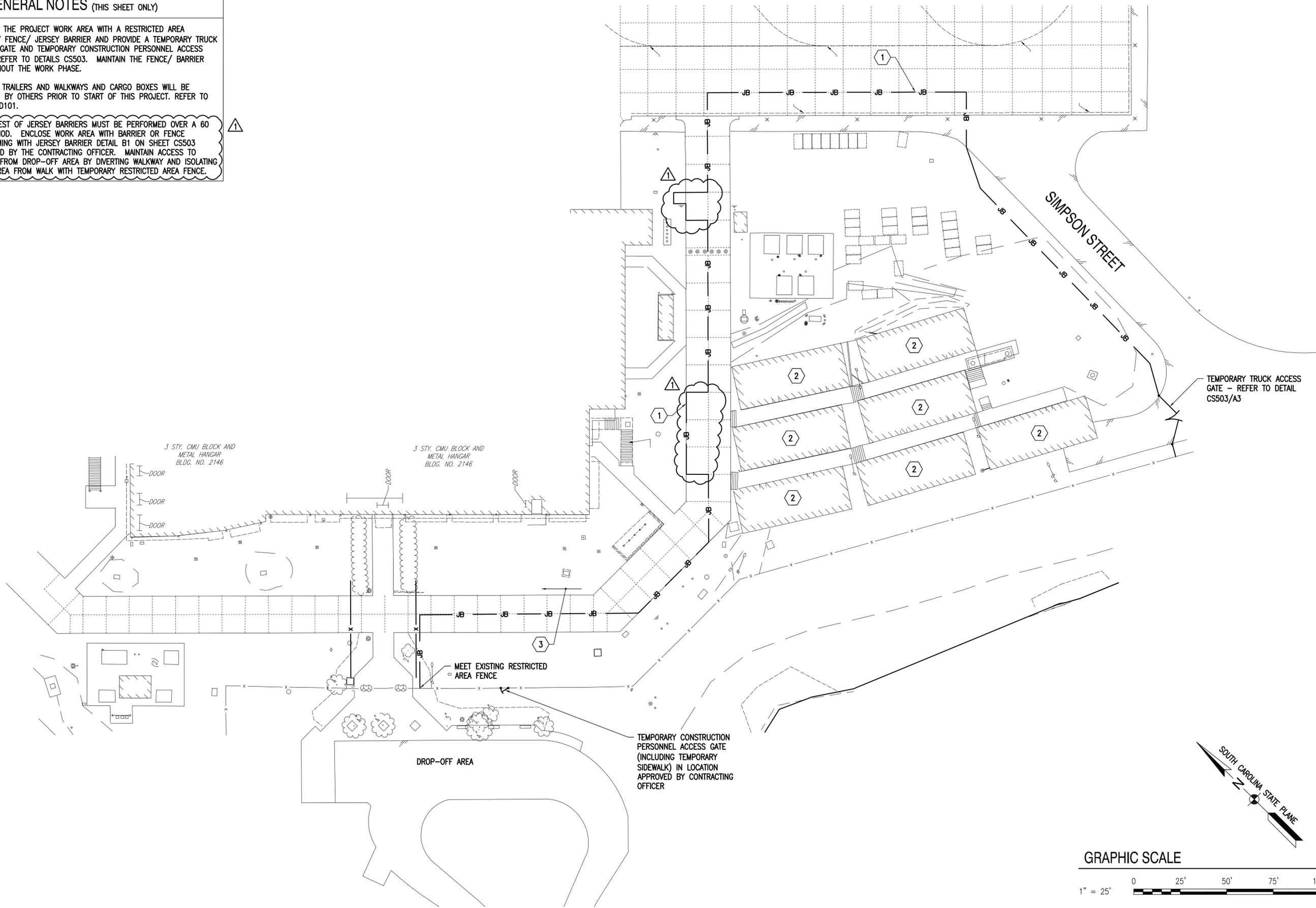
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GENERAL NOTES (THIS SHEET ONLY)

1. ENCLOSE THE PROJECT WORK AREA WITH A RESTRICTED AREA SECURITY FENCE/ JERSEY BARRIER AND PROVIDE A TEMPORARY TRUCK ACCESS GATE AND TEMPORARY CONSTRUCTION PERSONNEL ACCESS GATE. REFER TO DETAILS CS503. MAINTAIN THE FENCE/ BARRIER THROUGHOUT THE WORK PHASE.
2. EXISTING TRAILERS AND WALKWAYS AND CARGO BOXES WILL BE REMOVED BY OTHERS PRIOR TO START OF THIS PROJECT. REFER TO SHEET CD101.
3. WORK WEST OF JERSEY BARRIERS MUST BE PERFORMED OVER A 60 DAY PERIOD. ENCLOSE WORK AREA WITH BARRIER OR FENCE CONFORMING WITH JERSEY BARRIER DETAIL B1 ON SHEET CS503 APPROVED BY THE CONTRACTING OFFICER. MAINTAIN ACCESS TO HANGAR FROM DROP-OFF AREA BY DIVERTING WALKWAY AND ISOLATING WORK AREA FROM WALK WITH TEMPORARY RESTRICTED AREA FENCE.



NO.	DATE	BY	DESCRIPTION
06/06/22			
1			BY AMENDMENT



BAMFORTH
ENGINEERS + SURVEYORS

APPROVED	A/E INFO
FIR COMMANDER NAVFAC	
ACTIVITY	Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Branch, SC-10-0001
SATISFACTORY TO	DATE 12/17/2021
DES CAB	DRW CAD
CHK ALB	
PM/DM	CJW/SVR
BRANCH MANAGER	DLB
CHIEF ENGINEER	EJA
FIRE PROTECTION	DSN

DEPARTMENT OF THE NAVY
NAVFACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC
NAVFAC BEAUFORT
MCAS BEAUFORT
NAVFACILITIES ENGINEERING SYSTEMS COMMAND
BEAUFORT, SC
P-485 F35 OPERATIONS SUPPORT FACILITY (OSF)
CONSTRUCTION PHASING PLAN

GRAPHIC SCALE



SCALE:	GRAPHIC
PROJECT NO.:	1362850
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12854034
SHEET	13 OF 129
C-004	

FILE NAME: K:\CAD\2024\Amendment 05-31-22\BBLDC-P485-1362850-C-004.dwg LAYOUT NAME: C-004 PLOTTED: Monday, June 06, 2022 - 4:53pm USER: mtw

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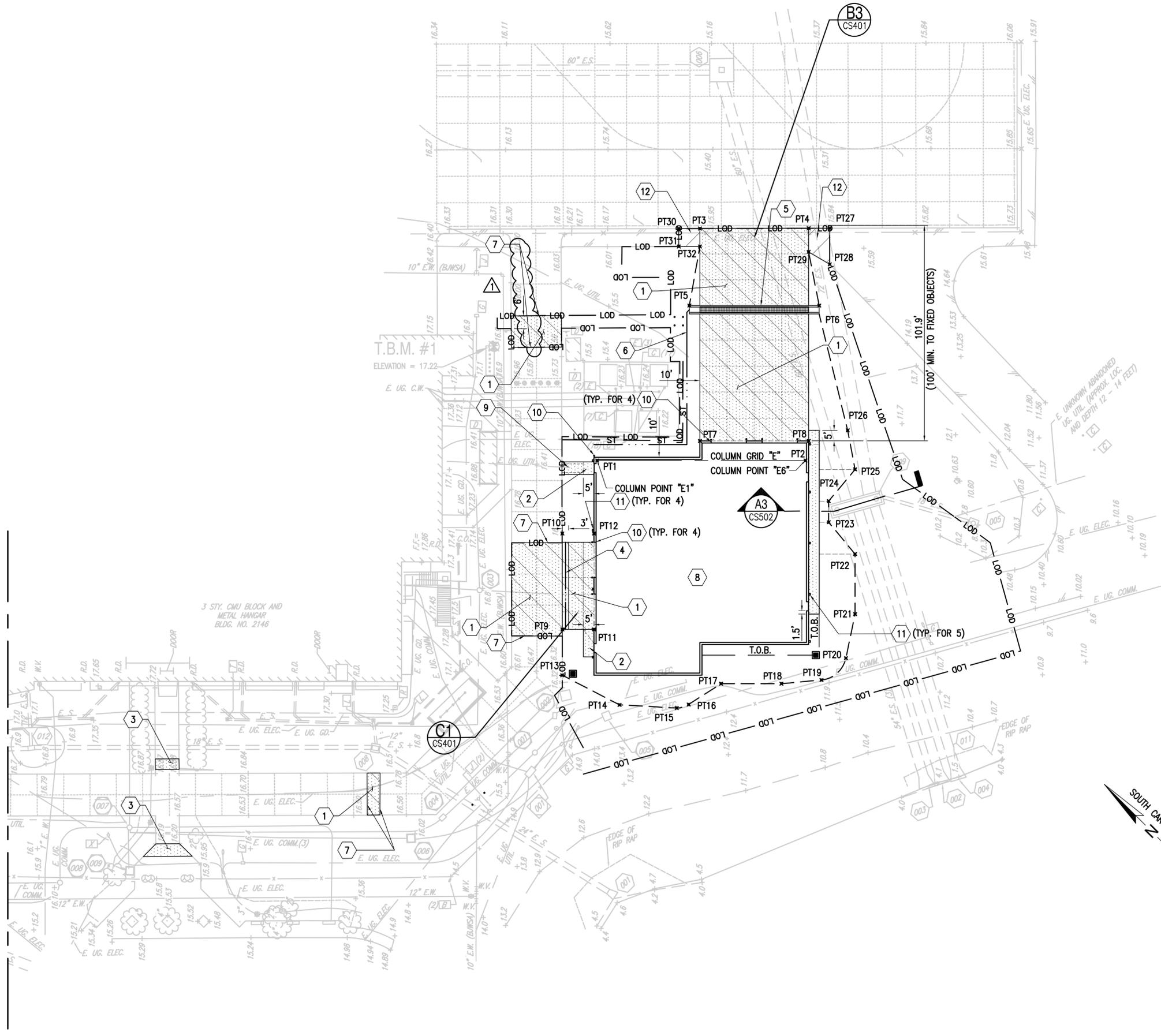
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MATCHLINE SEE SHEET CS102



⚠ SITE IMPROVEMENT NOTES (THIS SHEET ONLY)

1. CONCRETE PAVEMENT (REFER TO DETAIL CS502/D1)
2. CONCRETE STOOP (REFER TO DETAIL CS502/C1)
3. CONCRETE SIDEWALK (REFER TO DETAIL CS502/C2)
4. CONCRETE VALLEY GUTTER (REFER TO DETAIL CS502/B1)
5. TRENCH DRAIN (REFER TO DETAIL CG501/B4)
6. GRASS SWALE (REFER TO DETAIL CG502/B1)
7. KNEJ - CONSTRUCTION JOINT BETWEEN NEW AND EXISTING PAVEMENT (REFER TO DETAIL CS501/B1)
8. BUILDING (REFER TO ARCHITECTURAL DRAWINGS)
9. THICKENED EDGE SIDEWALK (REFER TO DETAIL CS502/A1)
10. BOLLARD (REFER TO ARCHITECTURAL PLAN)
11. DOWNSPOUT (REFER TO CG SHEETS AND ARCHITECTURAL PLAN)
12. BITUMINOUS CONCRETE PAVEMENT PATCH (REFER TO DETAIL CS502/B4). PATCH WIDTH AS REQUIRED TO INSTALL CONCRETE PAVEMENT.

SHEET NOTES

1. REFER TO CS401 FOR ENLARGED PCC PAVEMENT JOINTING PLAN.
2. REFER TO CU SHEETS FOR CIVIL UTILITIES.
3. REFER TO SHEET C-001 FOR LAYOUT POINTS (PT).
4. PROVIDE SITE PREPARATION IN ACCORDANCE WITH SITE PREPARATION NOTES ON SHEET CG001.

GRAPHIC SCALE



	DATE 06/06/22
	DESCRIPTION BY AMENDMENT
	SYMBOL 1
APPROVED	
FIR COMMANDER NAVFAC ACTIVITY Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Branch, SC in email. SATISFACTORY TO DATE 12/17/2021 DES CAB DRW CAD CHK ALB PM/DM CJW/SVR BRANCH MANAGER DLB CHIEF ENGINEER EJA FIRE PROTECTION DSN	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC MCAS BEAUFORT	BEAUFORT, SC P-485 F35 OPERATIONS SUPPORT FACILITY (OSF) LAYOUT PLAN
SCALE: GRAPHIC	
PROJECT NO.: 1362850	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. 12854042	
SHEET 21 OF 129	
CS101	
DRAWING REVISION: 25 AUGUST 2020	

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FILE NAME: K:\CAD\2024\Amendment_05-31-22\BUDG-P485-1362850-CS101.dwg LAYOUT NAME: CS101 PLOTTED: Monday, June 06, 2022 - 4:32pm USER: mkw

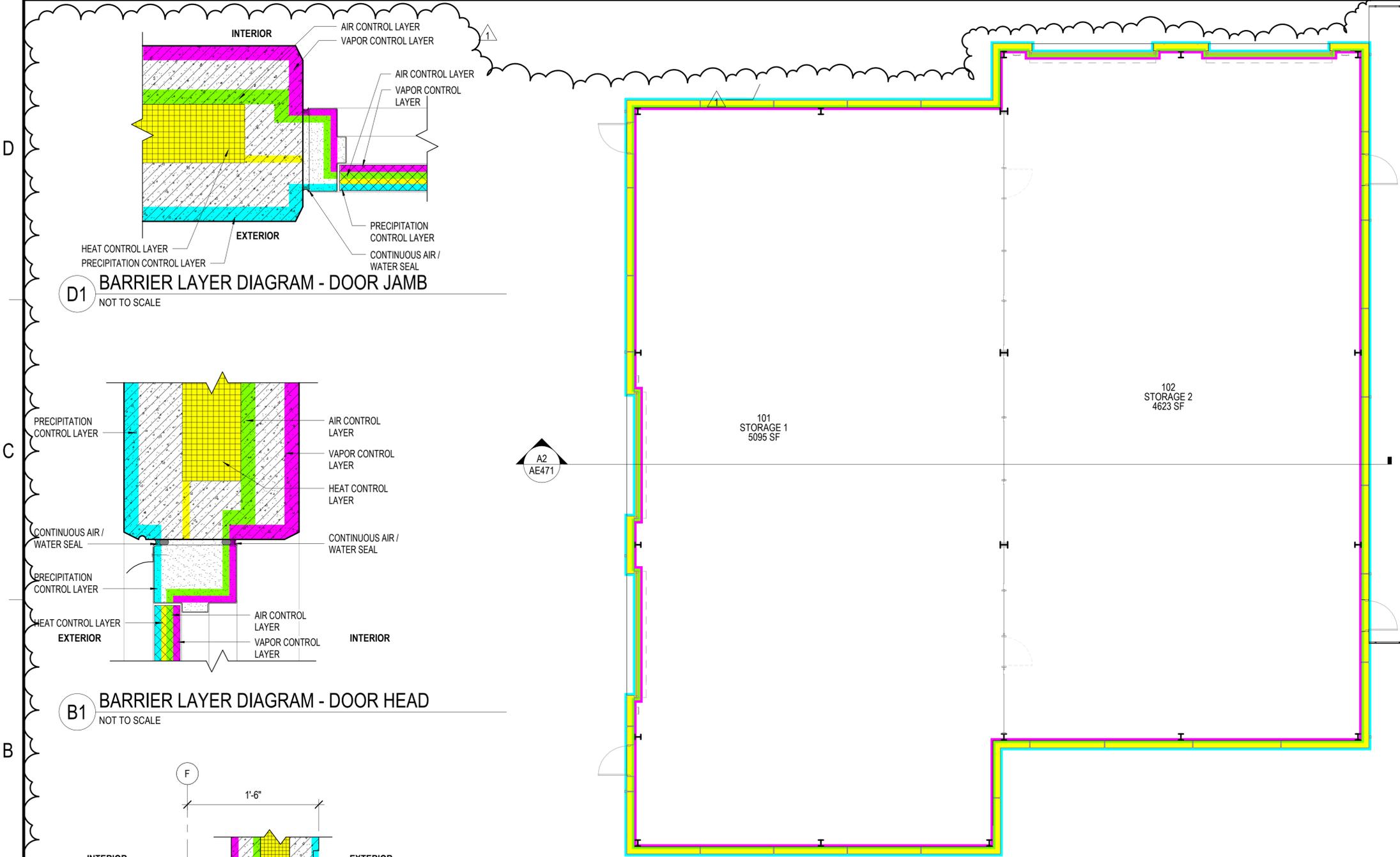
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NOTES:

SHEET NOTES:

- A REFER TO SHEET AE001 FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
- B PROVIDE A CONTIGUOUS AND CONTINUOUS AIR BARRIER ACROSS THE ENTIRE BUILDING ENVELOPE AND ENSURE AIR BARRIER IS IN FULL CONTACT WITH CONTINUOUS INSULATION.
- C FULLY SEAL ALL SEAMS, GAPS, AND PENETRATIONS IN THE AIR BARRIER.
- D THE OPERATION SUPPORT FACILITY (OSF) SPACE ONLY REQUIRES AIR BARRIER SYSTEM INSPECTION PER UFC 3-101-01, CHAPTER 3, SECTION 3-6.3. THE OSF IS CLASSIFIED AS A SEMI HEATED, WAREHOUSE FUNCTION.
- E PRIMARY EXTERIOR WALL IS A MASS WALL COMPOSED OF AN INSULATED PRECAST SYSTEM. THE WALL DEPTH IS 12 INCHES (4 INCH PRECAST+ 4 INCH RIGID INSULATION+ 4 INCH PRECAST). INSULATED PRECAST WALL SYSTEM IS CONSIDERED A BARRIER OF FACE-SEALED SYSTEM.
- F PROVIDE FLUID-APPLIED MEMBRANE AIR BARRIER/VAPOR RETARDER (072726.A01) AT EXTERIOR WALLS. APPLY AIR BARRIER TO EXTERIOR FACE OF GLASS-MAT EXTERIOR SHEATHING. REFER TO SHEET SERIES AE500 FOR EXTERIOR DETAILS.
- G PROVIDE HIGH-TEMPERATURE UNDERLAYMENT (076115.V01) AT SLOPED, STANDING SEAM METAL ROOF TO SERVE AS AN AIR BARRIER. REFER TO SHEET SERIES AE500 FOR EXTERIOR DETAILS.
- H WRAP AIR BARRIER INTO DOOR, LOUVER, AND TRANSLUCENT WINDOW OPENINGS. REFER TO SHEET AE621 FOR EXTERIOR DOOR DETAILS AND SHEET AE622 FOR TRANSLUCENT WINDOW AND LOUVER DETAILS.
- I ALTHOUGH THE DRAWINGS SHOW THE LOCATION OF THE AIR BARRIER SYSTEM COMPONENTS INCLUDING DETAIL OF JOINTS, INTERSECTIONS, AND PENETRATIONS OF THE SYSTEM, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THE AIR BARRIER SYSTEM IS INSTALLED IN A CONTINUOUS ENVELOPE.
- J PROVIDE POLYETHYLENE SHEETING VAPOR BARRIER (033000.V01) BELOW SLAB.

KEY NOTES (00)

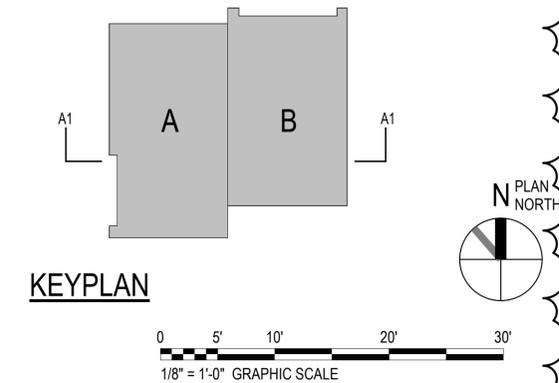
- 1 PERIMETER SEAL SYSTEM COMPONENT: "Z"-TYPE LINTEL SEAL WITH 3/4" BRUSH

AIR BARRIER SURFACE AREAS		
ELEMENT	SURFACE AREA	COMMENT
WALLS	9,180 SQ FT	TOTAL WALL AREA
SLAB	9,668 SQ FT	TOTAL FLOOR SLAB
ROOFS	10,690 SQ FT	TOTAL ROOF AREA
	29,538 SQ FT	TOTAL SURFACE AREA (EXTERIOR ENVELOPE)

NOTE 1: AIR BARRIER QUANTITIES ABOVE ARE FOR REFERENCE AND APPLY TO INSPECTION ONLY. REFERENCE UFC 3-101-01, 3-6.3.

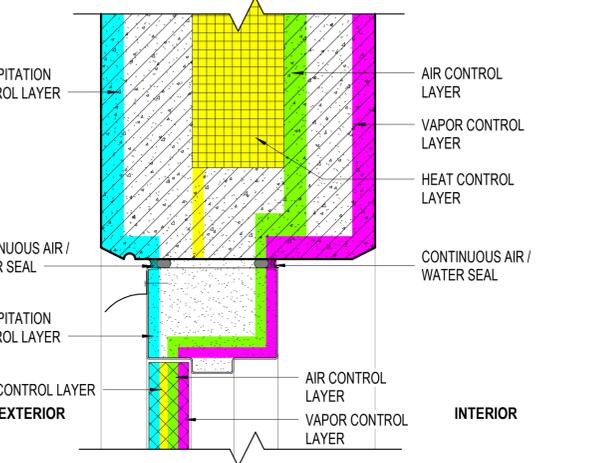
NOTE 2: THE AIR BARRIER IS THE GROSS AREA OF: SLAB, EXTERIOR PERIMETER WALLS, AND ROOF SURFACE. (AREAS DO NOT INCLUDE OPENINGS, SUCH AS WINDOWS AND DOORS).

BARRIER LAYER LEGEND	
GRAPHIC	TYPE
	VAPOR CONTROL LAYER
	AIR CONTROL LAYER
	HEAT CONTROL LAYER
	PRECIPITATION LAYER

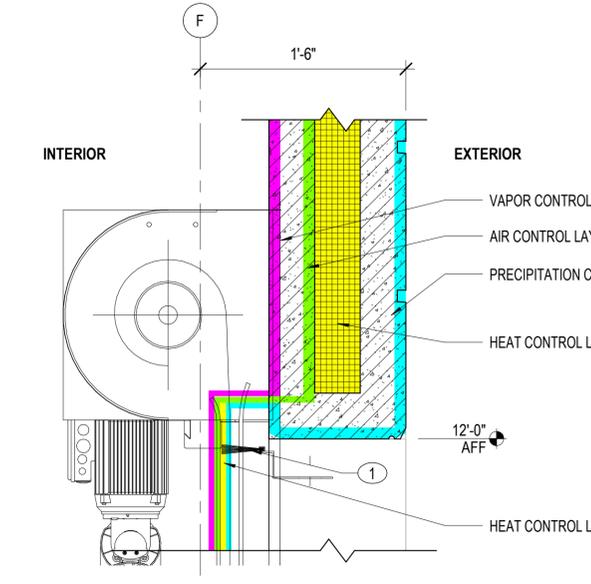


NOTE: IF THIS DRAWING IS LESS THAN 34" X 22" IT IS A REDUCED SIZE DRAWING

D1 BARRIER LAYER DIAGRAM - DOOR JAMB
NOT TO SCALE



B1 BARRIER LAYER DIAGRAM - DOOR HEAD
NOT TO SCALE



A1 BARRIER LAYER DIAGRAM - DOOR HEAD
NOT TO SCALE

B2 AIR BARRIER DIAGRAM - FLOOR PLAN
1/8" = 1'-0"



A2 AIR BARRIER DIAGRAM
1/8" = 1'-0"

DATE	6/6/2022	BY		APPR	
DESCRIPTION		DATE		DATE	
BY	AMENDMENT	DATE		DATE	
DESCRIPTION		DATE		DATE	

STATE OF FLORIDA
REMILO OLIVAREZ
REGISTERED ARCHITECT
AR94753

BAMFORTH

FOR COMMANDER NAVFAC

ACTIVITY Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner. PWD/Beaufort, SC via email

SATISFACTORY TO DATE 12/17/2021

DES	EAD	DRW	MEC	CHK	ROD
PM/CM					
BRANCH MANAGER					DJD
CHIEF ENGINEER					EJA
FF ENGINEER					DSN

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVFAC BEAUFORT
NAVFAC BEAUFORT

P-485 F35 OPERATIONS SUPPORT FACILITY

AIR BARRIER DIAGRAMS

SCALE: As indicated
EPROJECT NO.: 1362850
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12854094
SHEET 73 OF 129
AE471
DRAWFORM REVISION: 25 AUG 2020

BAA 300 (2021) - 485 F35 Operations Support Facility (OSF) - 12854094 - 02/14
 6/6/2022 2:52:31 PM

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NOTES:

SHEET NOTES:

- A REFER TO SHEET AE001 FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
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- J PROVIDE POLYETHYLENE SHEETING VAPOR BARRIER (033000.V01) BELOW SLAB.

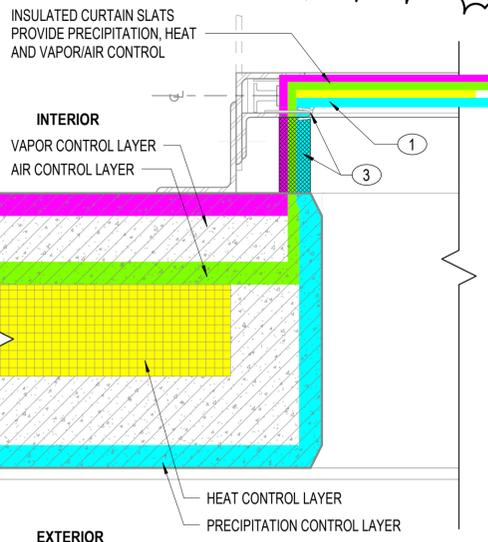
KEY NOTES (00)

- 1 OVERHEAD COILING DOOR
- 2 INSULATED MECHANICAL DUCT WORK
- 3 PERIMETER SEAL SYSTEM COMPONENT: WEATHER SEAL AND FOAM STRIP

BARRIER LAYER LEGEND

GRAPHIC	TYPE
	VAPOR CONTROL LAYER
	AIR CONTROL LAYER
	HEAT CONTROL LAYER
	PRECIPITATION LAYER

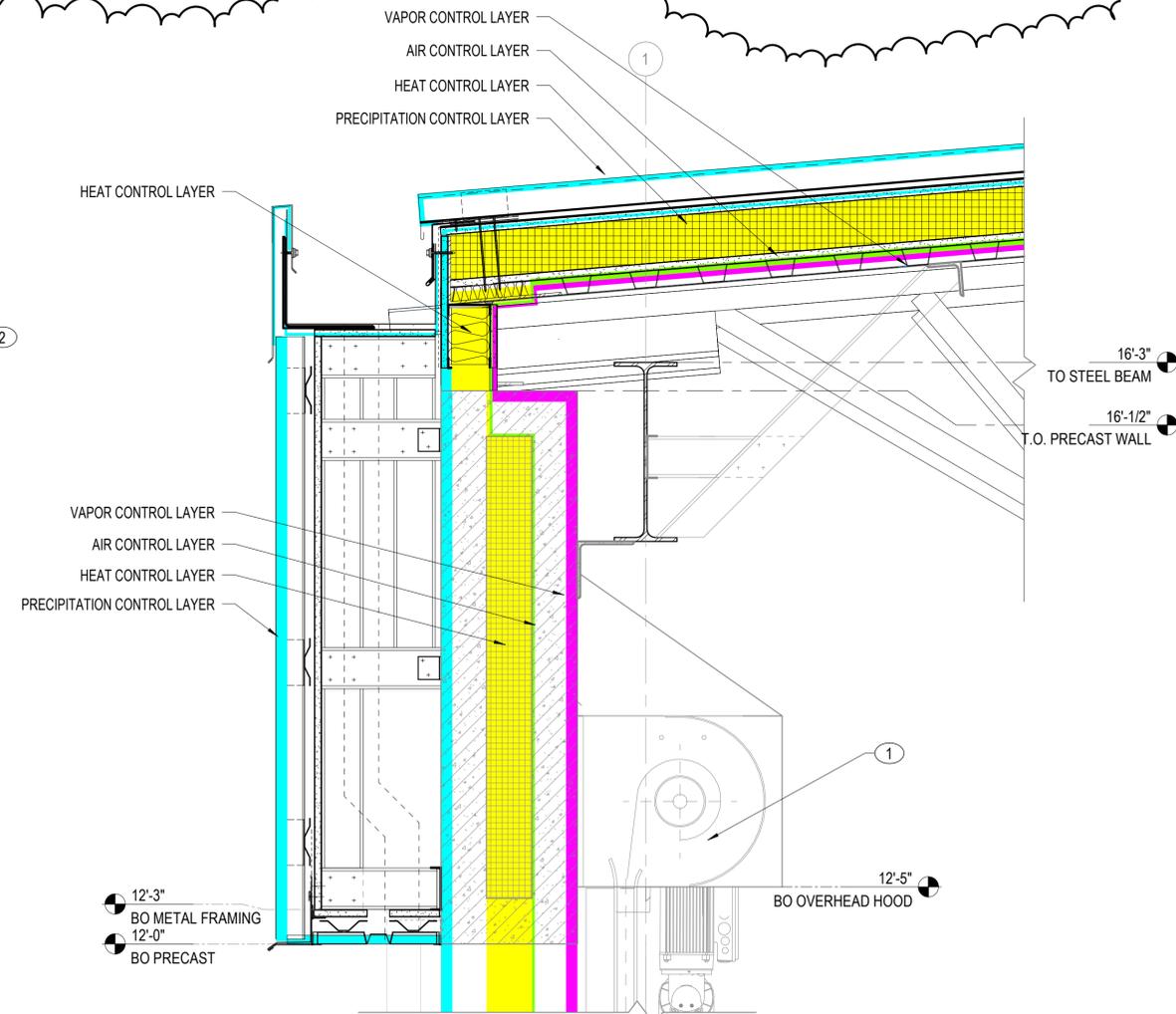
NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING



C1 BARRIER LAYER DIAGRAM - DOOR JAMB
NOT TO SCALE



A1 BARRIER LAYER DIAGRAM - LOUVER
NOT TO SCALE



A2 BARRIER LAYER DIAGRAM - SECTION DETAIL
NOT TO SCALE

DATE	6/6/2022
BY	AMENDMENT
DESCRIPTION	
SCALE	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner. PWD/Beaufort, SC via email
SATISFACTORY TO	DATE 12/17/2021
DES	EAD
DRW	KJF
CHK	ROD
PM/CM	CJW / SVR
BRANCH MANAGER	DJD
CHIEF ENGINEER	EJA
FP ENGINEER	DSN
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND - MID-ATLANTIC	NAVFAC BEAUFORT
DC CODE	MCAS BEAUFORT
NAVFAC DRAWING NO.	12854095
EPROJECT NO.	1362850
CONSTR. CONTR. NO.	
SHEET	74 OF 129
AE472	
DRAWFORM REVISION:	25 AUG 2020

BAA 300 2021.1-485 1-30 Operator Support Facility (OSF) 485 1362850 45 02/14
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