

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1   8
2. AMENDMENT/MODIFICATION NO. 0008	3. EFFECTIVE DATE 19-Apr-2004	4. REQUISITION/PURCHASE REQ. NO. W16ROE-3363-4250	5. PROJECT NO.(If applicable)	
6. ISSUED BY USA ENGINEER DISTRICT, NEW YORK ATTN:CENAN-CT ROOM 1843 26 FEDERAL PLAZA NEW YORK NY 10278	CODE W912DS	7. ADMINISTERED BY (If other than item 6) ENG-ENG. MGMT-FORT DRUM 4895 NININGER STREET BLDG 4895 FORT DRUM NY 13602		CODE DACA51
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912DS-04-R-0005
			X	9B. DATED (SEE ITEM 11) 16-Jan-2004
				10A. MOD. OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended.				
Offer 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)				
<b>13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>				
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.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
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.) The purpose of this amendment is to revise site location and size of buildings and to notify offerors of the following changes :  The Revised Final Price proposals are due on 27 April 2004 by 2:00 pm to the same location and person as the original proposals. Please provide six copies of Volume II. No changes to tech proposals will be accepted. Subcontracting proposals are not required.  All other terms and conditions remain the same.  NOTE: Bidders must acknowledge receipt of this amendment by the date specified in the solicitation (or as amended) by one of the following methods: in the space provided on the SF1442, by separate letter, by telegram, or by signing block 15 below. FAILURE TO ACKNOWLEDGE AMENDMENTS BY THE DATE AND TIME SPECIFIED MAY RESULT IN REJECTION OF YOUR BID IN ACCORDANCE WITH THE LATE BID, LATE MODIFICATIONS OF BIDS OR LATE WITHDRAWAL OF BIDS (FAR14.304).  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)	
			TEL: _____ EMAIL: _____	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		19-Apr-2004

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

The following have been added by full text:

AMENDMENT #8

1<sup>st</sup> Brigade Barracks Amendment 8

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	DESIGN SERVICES	1	Dollars, U.S.		
	ALL WORK TO DESIGN THE FIRST BRIGADE BARRACKS BUILDINGS				
				NET AMT	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	COMPLETE PROJECT CONSTRUCTION COSTS	1	Dollars, U.S.		
	ALL WORK TO CONSTRUCT THE FIRST BRIGADE BARRACKS BUILDING				
				NET AMT	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003		1	Dollars, U.S.	80,000	80,000

PROJECT PUNCH LIST

This line applies to all punch list items including those items identified at the prefinal and final inspections and is above the normal retainage for this item. Offerors shall include this amount in the bid price. This amount shall not be changed. \*1

\*1 This amount shall be retained by the Government in the event contractor fails to complete punch list items. This amount is separate from liquidated damages to be applied in the event contractor fails to complete the work within the time specified in the contract including any extensions.

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NET AMT 80,000

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004		1	Dollars, U.S.	20,000	20,000

AS-BUILT DRAWINGS PER 00800 SECTION

FOR FIRST BRIGADE BARRACK BUILDING (NO PARTIAL PAYMENTS WILL BE PROVIDED UNTIL FINAL ACCEPTANCE OF THIS ITEM). This amount shall not be changed.

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NET AMT 20,000

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	Option 1	1	Dollars, U.S.		

OPTION

Change all tubs to shower stalls in all modules. ( As shown on drawings)

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NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006		1	Dollars, U.S.		

OPTION DELETED IN ITS ENTIRETY

Road extension from the last building parking lot entrance of the 1st Brigade area to North Memorial Drive. Including all clearing, grubbing, grading, etc. (As shown on drawing)

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007	Option 2	1	Dollars, U.S.		

OPTION

All Pavilions and grilles, including electrical power to pavilions. (As shown on drawing)

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008	Option 3	1	Dollars, U.S.		

OPTION

All formation areas including basketball courts and walks in court yard area. Provide grading, topsoil and seeding under the base bid. ( As shown on drawings)

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009		1	Dollars, U.S.		

OPTION DELETED IN ITS ENTIRETY

Water line including hydrants from 4th Street along proposed 4th Armored Division Drive Extension to North Memorial Drive and include the drop down to the buildings. ( As shown on drawings)

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010	Option 4	1	Dollars, U.S.		

OPTION Mass Notification system in each barracks building as described under Section 01010 Paragraph 10.9.

NET AMT

TOTAL BASE BID

**TOTAL BASE BID FOR LINE ITEMS 0001- 0004**

\$ \_\_\_\_\_

**TOTAL BASE BID PLUS OPTIONS (LINE ITEMS 0001- 00010)**

\$ \_\_\_\_\_

BID SCHEDULE CHANGE: Delete Bid Item # 6 (Option 2) and Bid Item # 9 (Option 5).

**Section 01010, paragraph 1.1** Delete fourth fifth and sixth sentence; Replace with “The project consists of three buildings, two of which are a 104-man, two-story facility of approximately 3,455 sq. m. and one of which is a 64-man, two story facility of approximately 2,249 sq. m. (gross floor area as calculated per TI 800-01 and as elaborated on drawing A-1) designed to provide new Unaccompanied Enlisted Personnel Housing with quarters for a total of 276

soldiers, community space, and support facilities at Fort Drum, NY. The project site is located in Area 10400 on the south side of 4<sup>th</sup> Infantry Division Drive, east of South Riva Ridge Loop, and north of 5<sup>th</sup> Armored Division Drive.”

**Section 01010, paragraph 3.1.1** Delete in its entirety. Replace with “Site Location: The project site is located on the south side of 4<sup>th</sup> Infantry Division Drive, east of South Riva Ridge Loop, and north of 5<sup>th</sup> Armored Division Drive.”

**Section 01010, paragraph 3.1.2** Delete first sentence. Replace with “Building Siting: The proposed project consists of three (3) buildings that are to be situated on the south side of 4<sup>th</sup> Infantry Division Drive, east of South Riva Ridge Loop, and north of 5<sup>th</sup> Armored Division Drive. And in general conformance with the Site Layout Plan.”

**Section 01010, paragraph 3.7.1** Delete paragraph.

**Section 01010, paragraph 3.10** Delete first sentence.

**Section 01010, paragraph 3.14.1** Delete “C-3”. Replace with “C-5”.

**Section 01010, paragraph 3.16.2 1<sup>st</sup> sentence** Delete reference to sheets “C-5 & C-6”.

**Section 01010, paragraph 3.7.1**

**Section 01010, paragraph 11.13.2.2** Delete VCT. Replace with Quarry Tile.

**Attachment #3; Subsurface Investigation Data (Boring Logs)** Delete all boring information; Replace with attached new boring and test pit information.

**Section 01012, Add Paragraph 13.3.2 DESIGN CHANGES, AFTER 100% DESIGN ACCEPTANCE & COE AUTHORIZATION TO PROCEED TO CONSTRUCTION:** Any change to the accepted 100% design MUST be requested by the Contractor in writing (provide PE stamped drawings) at least 30 days prior to the desired implementation of the proposed change. The Contractor must provide compelling evidence the proposed change is in conformance with the contract documents. The Government reserves the right to reject the changes and will give a positive or negative response within 30 days of receipt. If the Government decides to proceed with the proposed change a bilateral contract modification will be prepared or a letter of agreement to alter the 100% design will be issued. **Changes made to the accepted 100% design without prior approval will be considered deficient work and no payment will be made for this deficient work.**

**Drawings:**

**Sheets C-1 Thru C-10** Shall be deleted. Replace with sheets C-1 thru C-5 provided in this amendment.

**Sheets A-4, A-5, and M-1** Will need to modify these drawings during the design phase to accommodate the requirements of the new 68 man and 104 man buildings provided under this amendment. The requirements of these drawings (A-4, A-5 and M-1) shall be incorporated for the two new 104 man barracks building and the one new 68 man barracks building and the associated cost be provided in this revised price proposal. Only changes required to make these adjustments will be accepted.

**Sheets A-1 & A-2** Shall be deleted. Replace with sheets A-1a, A-1b, A-2a & A-2b.

**Sheets A-6** Add Note: Pavilions are not shown on the new site plans, offerors shall provide one pavilion on the 104 man barracks site and one on the 68 man barracks site. Both pavilions shall be adjacent to the formation areas.

**Sheet C-4 & C-5** Add Note: Offerors shall provide one asphalt formation area with basketball court and 2 pole mounted basketball back board and rims along with white stripe court paint at the 104 man barracks and the 68 man barracks. Dimensions shall be 32.7 meters by 30 meters.

#### SECTION 00010 - SOLICITATION CONTRACT FORM

CLIN 0006

The CLIN description has changed from Option 2 to DELETED IN ITS ENTIRETY.

CLIN 0007

The CLIN description has changed from Option 3 to Option 2.

CLIN 0008

The CLIN description has changed from Option 4 to Option 3.

CLIN 0009

The CLIN description has changed from Option 5 to DELETED IN ITS ENTIRETY.

CLIN 0010

The CLIN description has changed from Option 6 to Option 4.

## SECTION 00700 - CONTRACT CLAUSES

The following were previously included by reference and are now included by full text:

252.227-7023 DRAWINGS AND OTHER DATA TO BECOME PROPERTY OF GOVERNMENT. (MAR 1979)

All designs, drawings, specifications, notes and other works developed in the performance of this contract shall become the sole property of the Government and may be used on any other design or construction without additional compensation to the Contractor. The Government shall be considered the "person for whom the work was prepared" for the purpose of authorship in any copyrightable work under 17 U.S.C. 201(b). With respect thereto, the Contractor agrees not to assert or authorize others to assert any rights nor establish any claim under the design patent or copyright laws. The Contractor for a period of three (3) years after completion of the project agrees to furnish all retained works on the request of the Contracting Officer. Unless otherwise provided in this contract, the Contractor shall have the right to retain copies of all works beyond such period.

(End of clause)

(End of Summary of Changes)

# ATLANTIC TESTING LABORATORIES, Limited

## Subsurface Investigation

Client: N.K. Bhandari Consulting Engineers  
 Project: Subsurface Investigation  
1st BOE Barracks  
Fort Drum, New York

Report No.: CD2302-12-03  
 Boring Location: See Boring Location Plan

Boring No.: B-17 Sheet 1 of 1  
 Casing Hammer Weight: \_\_\_\_\_ kg  
 Sampler Hammer Weight: 63.5 kg  
 Fall: \_\_\_\_\_ mm  
 Fall: 762 mm

Start Date: 2/11/2004 Finish Date: 2/11/2004  
 Groundwater Observations  

Date	Time	Depth (m)	Casing at
<u>2/11/2004</u>	<u>AM</u>	<u>DRY</u>	<u>1.1m</u>
<u>2/11/2004</u>	<u>AM</u>	<u>DRY</u>	<u>OUT</u>
<u>2/11/2004</u>	<u>AM</u>	<u>DRY</u>	<u>1.0m</u>

Ground Elev.: 183.31 m Boring Advance By: \_\_\_\_\_  
108 mm

Borehole caved at 0.6 meters.

DEPTH (meters)	METHOD OF ADVANCE	SAMPLE NO.	DEPTH OF SAMPLE		SAMPLE TYPE	BLOWS ON SAMPLER PER 152 mm 51-mm O.D. SAMPLER	DEPTH OF CHANGE	CLASSIFICATION OF MATERIAL	RECOVERY (mm)
			From	To					
1	AUGER	1	0.00	0.61	SS	4 4 10 13	0.1	127mm TOPSOIL & ORGANIC MATERIAL Brown mf+ SAND; some mf+ GRAVEL; little SILT; trace ORGANIC MATERIAL (roots); (moist, non-plastic)	330
		2	0.61	1.01	SS	24 37 100/96mm	1.1	Brown c-mf SAND; some ROCK FRAGMENTS; little mf GRAVEL; little SILT (moist, non-plastic) Cobbles encountered from 0.6 meters to 0.9 meters. Boring terminated at 1.1 meters due to auger refusal on possible bedrock or boulder.  Note: 1. Borehole backfilled upon completion with on-site soils. 2. The boring was redrilled 1.5 meters north of the original location and auger refusal was encountered at 1.0 meters.	178

ATL-LOG1.METRIC CD2302.GPJ ATL-WELL.GDT 3/9/04

SS Split Spoon Sample  
 NX Rock Core  
 SH Undisturbed Sample (Shelby Tube)  
 Estimated Groundwater

Drillers: Tom Farrell; Paul McAloon  
 Inspector: \_\_\_\_\_

# ATLANTIC TESTING LABORATORIES, Limited

## Subsurface Investigation

Client: N.K. Bhandari Consulting Engineers

Report No.: CD2302-12-03

Project: Subsurface Investigation

Boring Location: See Boring Location Plan

1<sup>ST</sup> BDE Barracks

Fort Drum, New York

Start Date: 2/11/2004 Finish Date: 2/11/2004

Boring No.: B-18 Sheet 1 of 1

Groundwater Observations

Date	Time	Depth (m)	Casing at
<u>2/11/2004</u>	<u>PM</u>	<u>2.5m</u>	<u>2.6m</u>
<u>2/11/2004</u>	<u>PM</u>	<u>DRY</u>	<u>TOW@2.3m</u>
<u>2/12/2004</u>	<u>AM</u>	<u>DRY</u>	<u>TOW@2.3m</u>
<u>3/1/2004</u>	<u>AM</u>	<u>DRY</u>	<u>TOW@2.3m</u>

Casing Hammer Weight: \_\_\_\_\_ kg  
 Sampler Hammer Weight: 63.5 kg  
 Fall: \_\_\_\_\_ mm  
 Fall: 762 mm

Ground Elev.: 182.91 m Boring Advance By: 108 mm

DEPTH (meters)	METHOD OF ADVANCE	SAMPLE NO.	DEPTH OF SAMPLE		SAMPLE TYPE	BLOWS ON SAMPLER PER 152 mm 51-mm O.D. SAMPLER	DEPTH OF CHANGE	CLASSIFICATION OF MATERIAL	RECOVERY (mm)
			From	To					
AUGER	AUGER	1	0.00	0.61	SS	4 8 10 10	0.1	<b>127mm TOPSOIL &amp; ORGANIC MATERIAL</b> Dark-Brown f SAND; some SILT; little ORGANIC MATERIAL (roots); trace f GRAVEL (moist, non-plastic)  Brown f SAND; and ROCK FRAGMENTS; little SILT; little mf GRAVEL (moist, non-plastic)  No Recovery  Cobbles and boulders encountered from 1.2 to 1.8 meters  Grey-Brown ROCK FRAGMENTS; some mf+ SAND; little SILT (moist, non-plastic) Possible Weathered BEDROCK	305
		2	0.61	1.22	SS	8 9 8 24			152
		3	1.22	1.22	SS	100/0mm			0
		4	1.83	2.44	SS	11 13 19 24			178
		5	2.44	2.50	SS	100/51mm	2.4		25
						2.6	Grey ROCK FRAGMENTS (saturated, non-plastic) Boring terminated at 2.6 meters due to auger refusal on possible bedrock or boulder.  1. Borehole backfilled upon completion with on-site soils.		

ATL-LOG1 METRIC CD2302.GPJ ATL-WELL.GDT 3/9/04

SS Split Spoon Sample  
 NX Rock Core  
 SH Undisturbed Sample (Shelby Tube)  
 Estimated Groundwater

Drillers: Tom Farrell; Paul McAloon  
 Inspector: \_\_\_\_\_

# ATLANTIC TESTING LABORATORIES, Limited

## Subsurface Investigation

Client: N.K. Bhandari Consulting Engineers  
 Project: Subsurface Investigation  
1<sup>st</sup> AOE Barracks  
Fort Drum, New York

Report No.: CD2302-12-03  
 Boring Location: See Boring Location Plan

Boring No.: B-19 Sheet 1 of 1

Start Date: 2/11/2004 Finish Date: 2/11/2004

Casing Hammer Weight: \_\_\_\_\_ kg  
 Fall: \_\_\_\_\_ mm  
 Sampler Hammer Weight: 63.5 kg  
 Fall: 762 mm

Groundwater Observations			
Date	Time	Depth (m)	Casing at
<u>2/11/2004</u>	<u>PM</u>	<u>DRY</u>	<u>1.5m</u>
<u>2/11/2004</u>	<u>PM</u>	<u>DRY</u>	<u>OUT</u>
<u>2/11/2004</u>	<u>PM</u>	<u>DRY</u>	<u>1.5m</u>

Ground Elev.: 182.79 m

Boring Advance By:  
108 mm

Borehole caved at 1.0 meters

DEPTH (meters)	METHOD OF ADVANCE	SAMPLE NO.	DEPTH OF SAMPLE		SAMPLE TYPE	BLOWS ON SAMPLER PER 152 mm 51-mm O.D. SAMPLER				DEPTH OF CHANGE	CLASSIFICATION OF MATERIAL	RECOVERY (mm)
			From	To								
1	AUGUR	1	0.00	0.61	SS	4	5	5	10	0.1	102mm TOPSOIL & ORGANIC MATERIAL	254
		2	0.61	1.01	SS	28	39	100/76mm		0.6	Brown mf+ SAND; and ROCK FRAGMENTS; little SILT; little mf+ GRAVEL (moist, non-plastic)	178
		3	1.22	1.37	SS	68	100/25mm			1.4	Grey ROCK FRAGMENTS; some mf+ SAND; trace SILT (moist, non-plastic)	127
			1.52	2.74	NX		RUN 1			2.7	Grey Limestone 91.4cm or 75% Recovery 7 Pieces (68.6cm)-25% Chips and Fragments 3 Pieces longer than 10.2cm (50.8cm)-RQD=42%	
3										Boring terminated at 2.7 meters.		
4										Note: 1. Borehole backfilled upon completion with on-site soils.		
5												
6												

ATL-LOG1 METRIC CD2302.GPJ ATL-WELL.GDT 3/9/04

SS Split Spoon Sample  
 NX Rock Core  
 SH Undisturbed Sample (Shelby Tube)  
 Estimated Groundwater

Drillers: Tom Farrell; Paul McAloon  
 Inspector: \_\_\_\_\_

# ATLANTIC TESTING LABORATORIES, Limited

## Subsurface Investigation

Client: N.K. Bhandari Consulting Engineers

Report No.: CD2302-12-03

Project: Subsurface Investigation

Boring Location: See Boring Location Plan

1<sup>st</sup> DOE Barracks  
Fort Drum, New York

Start Date: 2/11/2004 Finish Date: 2/11/2004

Boring No.: B-20 Sheet 1 of 1

**Groundwater Observations**

Casing Hammer Weight: \_\_\_\_\_ kg  
Fall: \_\_\_\_\_ mm

Sampler Hammer Weight: 63.5 kg  
Fall: 762 mm

Date	Time	Depth (m)	Casing at
<u>2/11/2004</u>	<u>AM</u>	<u>DRY</u>	<u>0.9m</u>
<u>2/11/2004</u>	<u>AM</u>	<u>DRY</u>	<u>OUT</u>
<u>2/11/2004</u>	<u>AM</u>	<u>DRY</u>	<u>0.9m</u>

Ground Elev.: 182.21 m Boring Advance By: 108 mm

Borehole caved at 0.7 meters.

DEPTH (meters)	METHOD OF ADVANCE	SAMPLE NO.	DEPTH OF SAMPLE		SAMPLE TYPE	BLOWS ON SAMPLER PER 152 mm 51-mm O.D. SAMPLER	DEPTH OF CHANGE	CLASSIFICATION OF MATERIAL	RECOVERY (mm)
			From	To					
1	AUGER	1	0.00	0.58	SS	5 31 32 100	0.4	102mm TOPSOIL & ORGANIC MATERIAL Brown mf SAND; some mf GRAVEL; trace SILT (moist, non-plastic)	254
		2	0.61	0.70	SS	100/76mm	0.5	ROCK FRAGMENTS (moist, non-plastic) Cobbles encountered from 0.6 meters to 0.8 meters. Boring terminated at 0.9 meters due to auger refusal on possible bedrock or boulder.	25
0.9									

**CLASSIFICATION OF MATERIAL**

f - fine  
m - medium  
c - coarse

and - 35-50%  
some - 20-35%  
little - 10-20%  
trace - 0-10%

Notes:  
1. Borehole backfilled upon completion with on-site soils.  
2. The boring was redrilled 1.8 meters north of the original location and auger refusal was encountered at 0.9 meters.

ATL-LOG1 METRIC CD2302.GPJ ATL-WELL.GDT 3/9/04

SS Split Spoon Sample  
NX Rock Core  
SH Undisturbed Sample (Shelby Tube)  
Estimated Groundwater

Drillers: Tom Farrell; Paul McAloon  
Inspector: \_\_\_\_\_





# TEST BORING REPORT

BORING NO. RR3(SZ) 32

PROJECT FORT DRUM INFRASTRUCTURE II PROJECT - PHASE II  
CLIENT SEELYE/URBAHN  
CONTRACTOR WARREN GEORGE, INC.

FILE NO. 752020  
SHEET NO. 1 OF 1

ITEM	CASING	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROCEDURES	LOCATION N 1,478,192 E 710,913
TYPE	HW	S	NX	RIC TYPE CME-55 Track Mounted	ELEVATION 587.8
INSIDE DIAMETER (IN)	4.0	1-3/8	2-1/8	BIT TYPE Roller Bit	DATUM NGVD
HAMMER WEIGHT (LB)	300	140	--	DRILL MUD --	START 12 Dec. 1985
HAMMER FALL (IN)	18	30	--	OTHER Advanced casing to 3.0 ft. Roller bit to 3.0 ft. NX core barrel to 8.0 ft.	FINISH 12 Dec. 1985 DRILLER D. Danielson H&A-REP R. Heath

DEPTH (FT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
			S1	0.0		Loose brown loamy SILT, damp. (ML)
		1		-		
		3		-		
		11	18"/24"	2.0	2.0	-TOPSOIL-
		0	S2	2.0		Very dense brown gravelly SILT, trace coarse to fine sand, moist. (ML)
		50/0.2	3"/9"	2.8	2.8	-GLACIAL TILL-
			R1	3.0		Top of Rock at 2.8 ft.
	4*	O		-		Hard, slightly weathered, extremely to moderately fractured, gray, amorphous BLACK RIVER LIMESTONE; very close to close open horizontal bedding plane joints; 7.5 to 8.0 slightly fractured. RQD = 0%
	4*	R		-		
5		E	20"/24"	5.0		Same.
	4*	C		-		
	4*	O	R2	-		
	4*	R		-		
	4*	E	20"/36"	8.0		RQD = 30%
		D		-		
10						Bottom of Boring at 8.0 ft.
						NOTES:
						1. Complete wash return throughout coring.
						2. *Indicates drilling time in minutes per foot.
15						
20						
25						
30						

WATER LEVEL DATA						SAMPLE IDENTIFICATION		SUMMARY	
DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO:			O OPEN END ROD	T THIN WALL TUBE	U UNDISTURBED SAMPLE	OVERBURDEN (LIN FT)
			BOTTOM OF CASING	BOTTOM OF HOLE	WATER				
12Dec85	1620	0	0.0	8.0	4.8	S SPLIT SPOON <td></td> <td></td> <td>2.8</td>			2.8
Reading taken at completion of drilling.						C CORE WITHIN SOIL DEPOSITS			5.2
						R ROCK CORE RUN			2S, 2R
								BORING NO.	RR3(SZ) 32



HALEY & ALDRICH, INC.  
CAMBRIDGE, MASSACHUSETTS

# TEST BORING REPORT

BORING NO. RU 138

PROJECT: FORT DRUM INFRASTRUCTURE II  
CLIENT: STV - SEELYE STEVENSON VALUE & KNECHT  
CONTRACTOR: ATLANTIC TESTING LABORATORIES, LTD.

FILE NO. 752010  
SHEET NO. 1 OF 1

LOCATION: N 1478541  
E 711471  
ELEVATION: 592.9  
DATUM: NGVD  
START: 1 April 85  
FINISH: 1 April 85  
DRILLER: R. Todd  
H&A REP: T.M.Cormican

ITEM	CASING	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROCEDURES	
				RIG TYPE	CME 45 Track-Mounted
TYPE	Augers	8	NX	SIT TYPE	Roller Bit
INSIDE DIAMETER (IN)	3-1/4	1-3/8	2-1/8	DRILL MUD	--
HAMMER WEIGHT (LB)	--	140	--	OTHER	Advanced hollow-stem augers to 3.0 ft. Roller Bit 3.0 to 3.3 ft. Cored 3.3 to 8.3 ft.
HAMMER FALL (IN)	--	30	--		

DEPTH (FT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
5		1	S1A	0.0-0.5	0.5	Very soft black loamy SILT, little vegetation, trace medium to fine sand. - TOPSOIL -
		17	S1B	0.5 -		
		25/0.1	9"/14"	1.1	3.0	Dense mottled gray brown SILT, little coarse to fine sand little gravel (well bonded). -GLACIAL TILL- (ML-SM) Very dense mottled gray-brown coarse to fine sandy SILT, little gravel (well bonded) (ML-SM) Top of rock at 3.0 ft. No Recovery. Roller Bit and split spoon refusal at 3.3 ft. Very hard to hard, fresh to slightly weathered, moderately fractured to sound, fine-grained gray BLACK RIVER LIMESTONE, close, open to tight, horizontal smooth to rough joints (with occasional brown silty CLAY fillings).
		13	S2	2.0 -		
		100/0.3	8"/10"	2.8		
	*2.5	100/0.0	NR			
	*1.5	C				
	*2.0	O				
	*3.5	R				
	*4.0	E				
			60"/60"	8.3	ROD-934	
10						Bottom of Boring at 8.3 ft.
15						*Indicates drilling rate in minutes per foot.
20						
25						
30						

WATER LEVEL DATA						SAMPLE IDENTIFICATION		SUMMARY	
DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO:			O OPEN END ROD	T THIN WALL TUBE	OVERBURDEN (LIN FT)	ROCK CORED (LIN FT)
			BOTTOM OF CASING	BOTTOM OF HOLE	WATER				
1 Apr 85	1415	--	3.0	8.3	2.0			3.3	5.0
1 Apr 85	1430	--	0.0	2.0	0.5			3S, 1R	
						R Rock Core Run			
						BORING NO.		RU 138	



HALEY & ALDRICH, INC.  
CAMBRIDGE, MASSACHUSETTS

# TEST BORING REPORT

BORING NO. RR2(S) 12

PROJECT  
CLIENT  
CONTRACTOR

PORT DRUM INFRASTRUCTURE II PROJECT - PHASE II  
SEELYE/URBAHN  
WARREN GEORGE, INC.

FILE NO. 752020  
SHEET NO. 1 OF 1

ITEM	CASING	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROCEDURES		LOCATION N 1,478,230
				RIG TYPE CME-75 Truck Mounted	ELEVATION 593.9	
TYPE	HW	S	NX	BIT TYPE Roller Bit	DATUM NGVD	
INSIDE DIAMETER (IN)	4.0	1-3/8	2-1/8	DRILL MUD Quik-Gel Bentonite	START 21 Nov. 1985	
HAMMER WEIGHT (LB)	300	140	--	OTHER Advanced casing to 4.0 ft.	FINISH 21 Nov. 1985	
HAMMER FALL (IN)	18	30	--	Roller bit to 5.5 ft.; NX core barrel to 9.5 ft.	DRILLER J. Harris, Jr.	
					H&A REP R. W. McGrath	

DEPTH (FT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS
		50	S1 5" / 6"	0.0-0.5	0.5	Very dense dark brown silty LOAM, damp-TOPSOIL- (ML)
		9	S2	1.8		Very dense brown gravelly coarse to fine SAND, little silt, moist. (SW)
		38 50/0.3	6" / 12"	2.8		
5	4*	50/0.1	S3 1" / 2"	5.0-5.2 5.5	5.5	Very dense brown gravelly coarse to fine SAND, trace silt, moist. Top of Rock at 5.5 ft.
	4*	C	R1			Moderately hard, slightly weathered, moderately fractured, greenish black, fine-grained BLACK RIVER LIMESTONE; close, tight horizontal, smooth joints; very thin horizontal bedding, stylitic; calcite fillings.
	4*	R				
	5*	D				
			37" / 48"	9.5	?	RQD = 91%
10						Bottom of Boring at 9.5 ft.
						Note: 1. No water return throughout coring.
15						
20						
25						
30						

WATER LEVEL DATA				SAMPLE IDENTIFICATION		SUMMARY	
DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO:			OVERBURDEN (LIN FT)	ROCK CORED (LIN FT) SAMPLES
			BOTTOM OF CASING	BOTTOM OF HOLE	WATER		
No reading taken.						5.5	4.0
							3S, 1R
						BORING NO. RR2(S) 12	

HALEY & ALDRICH, INC.  
CAMBRIDGE, MASSACHUSETTS

# TEST PIT REPORT

TEST PIT NO. RR2(S) TP119

PROJECT: FORT DRUM, INFRASTRUCTURE II PROJECT, PHASE II

CLIENT: SEELYE/URBAHN

CONTRACTOR: TUG HILL CONSTRUCTION CO.

EQUIPMENT USED: Case 580E Hydraulic Backhoe

FILE NO. 752020

LOCATION: N 1.477.781

E 711.841

ELEVATION: 584.1

EXPLORATION DATE: 8 Nov. 85

INSPECTOR: F.C. AMOS

Scale in Feet	Strata Change	Sample Number	Sample Depth Range	DESCRIPTION OF MATERIALS	REMARKS
0.6				Dark brown fine sandy SILT, trace roots, moist. -TOPSOIL- (ML) -grading-	
2		B1	2.0 3.0	Brown iron-stained mottled silty CLAY, trace fine gravel, trace coarse sand, trace roots, damp. -GLACIAL TILL- (CL) -grading-	
3.5					
4		B2	4.0 4.5	Light brown fine sandy SILT, trace cobbles, trace coarse to medium sand, trace roots, dry. -GLACIAL TILL- (ML)	
6				Bucket Refusal Bottom of Exploration at 5.5 ft.	Boulder density too difficult for excavation at 5.5 ft.
8					
10					
12					

GROUNDWATER			SUMMARY	
DATE	TIME	DEPTH/FT.		
			10.0 x 2.5 x 5.5 = 138 Cu. Ft.	DEPTH 5.5 ft.
			(L) (W) (D)	JAR SAMPLES -
				BAGS SAMPLES 2
				GROUNDWATER -
NOT ENCOUNTERED X			RR2(S) TP119	

**BOULDERS**

8" to 18" DIAM: No. - Vol. - Cu. Ft.  
Over 18" DIAM: No. - Vol. - Cu. Ft.



HALEY & ALDRICH, INC.  
CAMBRIDGE, MASSACHUSETTS

# TEST BORING REPORT

BORING NO. RR2(S) 11

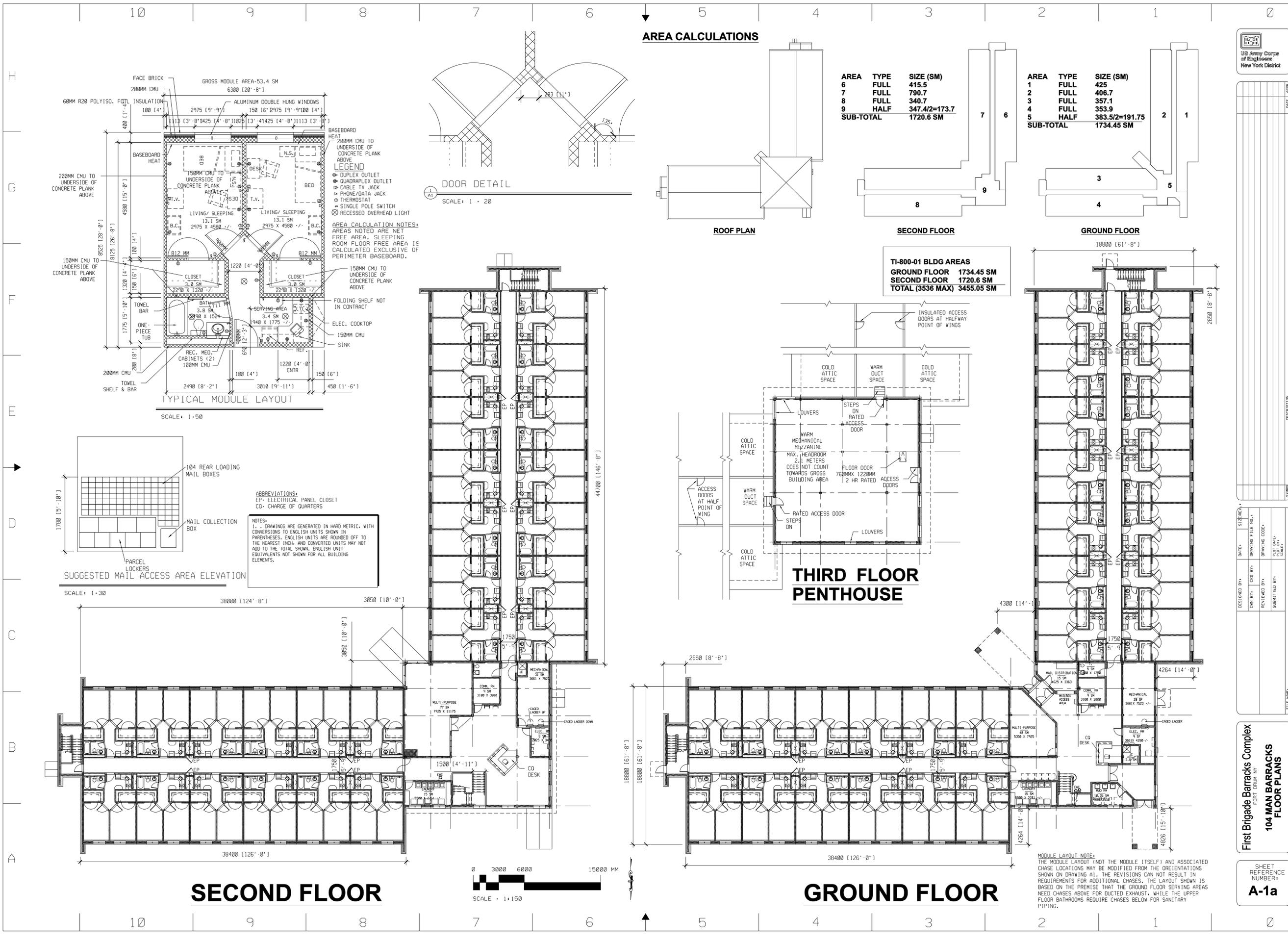
PROJECT: FORT DRUM INFRASTRUCTURE II PROJECT - PHASE II  
CLIENT: SEELYE/URBAHN  
CONTRACTOR: WARREN GEORGE, INC.

FILE NO. 752020  
SHEET NO. 1 OF 1

ITEM	CASING	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROCEDURES	
				RIC TYPE CME-75 Truck Mounted	LOCATION N 1,477,399 E 711,528
TYPE	HW	S	--	BIT TYPE Roller Bit	ELEVATION 578.0
INSIDE DIAMETER (IN)	4.0	1-3/8	--	DRILL MUD --	DATUM NGVD
HAMMER WEIGHT (LB)	Spun	140	--	OTHER Advanced HW casing to 4.0 ft.	START 29 Oct. 1985
HAMMER FALL (IN)		30	--	Advanced roller bit to 8.0 ft.	FINISH 29 Oct. 1985
				Sampled to 16.0 ft.	DRILLER J. Harris, Jr.
					H&A REP R. Heath

DEPTH (FT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	VISUAL CLASSIFICATION AND REMARKS	
5		2	S1	0.0		Loose brown SILT, trace roots. (ML)	
		2		1			
		3					
		4	14"/24"	S2	2.0		Same, except trace coarse to fine sand. (ML)
		4			1		
		6	18"/24"		4.0		
5		4	S3	5.0	5.0	-LACUSTRINE- (ML)	
		4		-		Medium dense brown silty coarse to fine SAND little gravel, wet (poor recovery). (SM)	
		6					
		7	1"/24"		7.0		
10		5	S4	8.0		Same, except some gravel.	
		2		-			
		10	30	2"/24"	10.0		-GLACIAL TILL- (SW)
15						Bottom of Boring at 10.0 ft.	
20							
25							
30							

WATER LEVEL DATA						SAMPLE IDENTIFICATION		SUMMARY	
DATE	TIME	ELAPSED TIME (HR)	DEPTH (FT) TO:			O OPEN END ROD	T THIN WALL TUBE	U UNDISTURBED SAMPLE	OVERBURDEN (LIN FT)
			BOTTOM OF CASING	BOTTOM OF HOLE	WATER				
29Oct85	1105	0.25	4.0	10.0		S SPLIT SPOON			10.0
			Hole cased to 0.0 ft.			C CORE WITHIN SOIL DEPOSITS			-
						R ROCK CORE RUN			45
								BORING NO.	RR2(S) 11



**SECOND FLOOR**

**GROUND FLOOR**

**AREA CALCULATIONS**

AREA	TYPE	SIZE (SM)
6	FULL	415.5
7	FULL	790.7
8	FULL	340.7
9	HALF	347.4/2=173.7
<b>SUB-TOTAL</b>		<b>1720.6 SM</b>

AREA	TYPE	SIZE (SM)
1	FULL	425
2	FULL	406.7
3	FULL	357.1
4	FULL	353.9
5	HALF	383.5/2=191.75
<b>SUB-TOTAL</b>		<b>1734.45 SM</b>

**TI-800-01 BLDG AREAS**  
**GROUND FLOOR 1734.45 SM**  
**SECOND FLOOR 1720.6 SM**  
**TOTAL (3536 MAX) 3455.05 SM**

**ABBREVIATIONS:**  
 EP- ELECTRICAL PANEL CLOSET  
 CO- CHARGE OF QUARTERS

**NOTES:**  
 1. DRAWINGS ARE GENERATED IN HARD METRIC, WITH CONVERSIONS TO ENGLISH UNITS SHOWN IN PARENTHESES. ENGLISH UNITS ARE ROUNDED OFF TO THE NEAREST INCH, AND CONVERTED UNITS MAY NOT ADD TO THE TOTAL SHOWN. ENGLISH UNIT EQUIVALENTS NOT SHOWN FOR ALL BUILDING ELEMENTS.

**MODULE LAYOUT NOTE:**  
 THE MODULE LAYOUT (NOT THE MODULE ITSELF) AND ASSOCIATED CHASE LOCATIONS MAY BE MODIFIED FROM THE ORIENTATIONS SHOWN ON DRAWING A1. THE REVISIONS CAN NOT RESULT IN REQUIREMENTS FOR ADDITIONAL CHASES. THE LAYOUT SHOWN IS BASED ON THE PREMISE THAT THE GROUND FLOOR SERVING AREAS NEED CHASES ABOVE FOR DUCTED EXHAUST, WHILE THE UPPER FLOOR BATHROOMS REQUIRE CHASES BELOW FOR SANITARY PIPING.



NO.	DATE	SYMBOL	DESCRIPTION

DESIGNED BY	DATE	SIZE

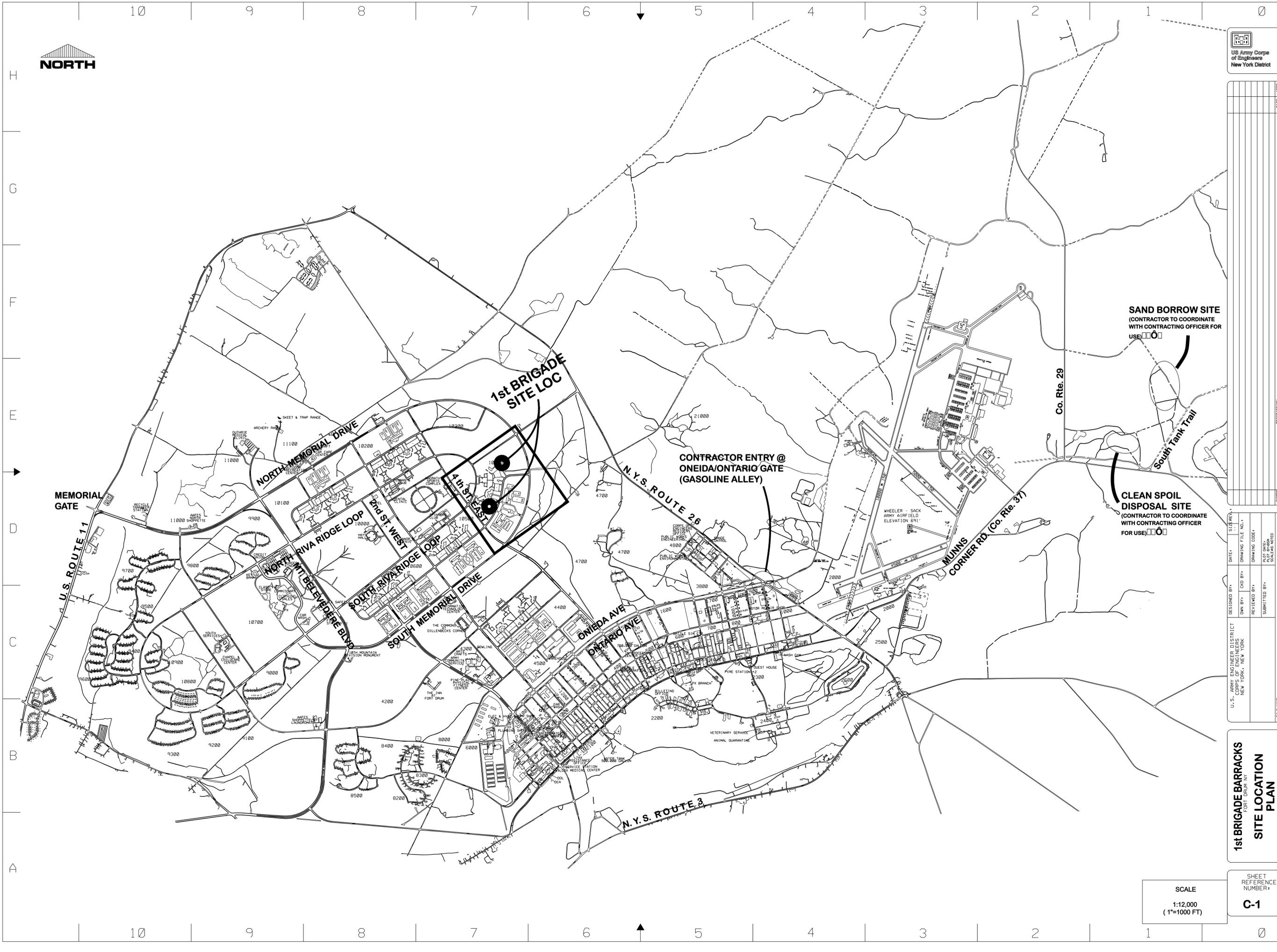
**First Brigade Barracks Complex**  
 FORT DRUM NY  
**104 MAN BARRACKS**  
**FLOOR PLANS**

SHEET REFERENCE NUMBER:  
**A-1a**









SYMBOL	DESCRIPTION
	SAND BORROW SITE (CONTRACTOR TO COORDINATE WITH CONTRACTING OFFICER FOR USE)
	CLEAN SPOIL DISPOSAL SITE (CONTRACTOR TO COORDINATE WITH CONTRACTING OFFICER FOR USE)

DESIGNED BY:	DATE:	SIZE/REV:
DRAWN BY:	DRAWING FILE NO.:	
REVIEWED BY:		
SUBMITTED BY:	PLOT DATE:	
	PLOT BY:	
	PLACED/OUT:	
	FILE NAME:	

**1st BRIGADE BARRACKS**  
FORT DRUM NY  
**SITE LOCATION PLAN**

SCALE  
1:12,000  
(1"=1000 FT)

SHEET REFERENCE NUMBER:  
**C-1**







