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UNITED STATES CENTRAL COMMAND
OFFICE OF THE COMMANDER
7115 SOUTH BOUNDARY BOULEVARD
MACDILL AIR FORCE BASE, FLORIDA 33621-5101

ACTION MEMO

16 February 2016

MEMORANDUM FOR SECRETARY OF DEFENSE
CHAIRMAN, JOINT CHIEFS OF STAFF

FROM: General Lloyd J. Austin III, Commander, U.S. Central Command

SUBJECT: Emergency and Extraordinary Expense Request - Kunduz Hospital (U)

Mr. Secretary, Chairman,

The purpose of this memo is to endorse the request (TAB A) of Commander, United States Forces - Afghanistan (USFOR-A) for \$5,790,349 in Emergency and Extraordinary Expense (EEE) authority to reconstruct the heavily-damaged hospital in Kunduz, Afghanistan.

BACKGROUND

- On 3 October 2015, U.S. combat activity in Kunduz, Afghanistan damaged a building owned by the Government of the Islamic Republic of Afghanistan (GIRoA). The building was being used as a hospital at the time it was damaged.
- The hospital building is owned by the GIRoA's Ministry of Commerce and Industries (MoCI) through the state-owned Spinzar Corporation. The GIRoA has requested that USFOR-A return the facility to its condition prior to the 3 October 2015 strike.

DISCUSSION

- The U.S. Army Corps of Engineers (USACE) conducted a damage assessment of the building and determined the facilities ground floor is a total loss and the basement is considered repairable. The current working estimate by USACE to reconstruct the structure is \$5,790,349.
- All authorities and funding sources available to USCENTCOM have been reviewed. It is determined that only the Commander's Emergency Response Program authority under Section 1200 of the Fiscal Year 2016 National Defense Authorization Act is legally available for the hospital reconstruction. However, this fund is limited to a \$2M cap.
- EEE is an authority, which may be used by the Secretary of Defense or Secretaries of the Military Departments, to fund any emergency or extraordinary expense which cannot be anticipated or classified. The funds requested cover only the restoration of the facility itself, not any of the medical equipment owned by MSF.

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OSD001615-16/CMD002338-16

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RECOMMENDATION

- Approve \$5,790,349 in Secretary of Defense EEE authority to be issued to USACE or direct Service EEE authority be used for the reconstruction of the hospital in Kunduz, Afghanistan.

Attachment:

TAB A: 24 January 2016 USFOR-A Memorandum to the USCENTCOM Commander

Copy to:

OSD Comptroller

Joint Staff Comptroller

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HEADQUARTERS
UNITED STATES FORCES-AFGHANISTAN
KABUL, AFGHANISTAN
APO AE 09356

USFOR-A CDR

24 January 2016

MEMORANDUM FOR Commander, United States Central Command, 7115 South Boundary Blvd, MacDill AFB, FL 33621-5101

SUBJECT: Request for Emergency and Extraordinary Expenses Funding

1. PURPOSE: USFOR-A requests \$5,790,349.00 of Emergency & Extraordinary Expenses ("Triple E") funds for the reconstruction of the heavily-damaged hospital building owned by the Government of the Islamic Republic of Afghanistan.

2. BACKGROUND: On 3 October 2015, U.S. combat activity in Kunduz, Afghanistan damaged a building owned by the Government of the Islamic Republic of Afghanistan (GIRoA). Spinzar Company, a state-owned enterprise, managed the building and had leased the property to Medecins Sans Frontiers ("MSF," a.k.a. Doctors Without Borders). MSF was using the building as a hospital at the time of the strike. The strike resulted in the injury or death of 273 noncombatants, as reported by MSF, and the near destruction of the compound's main facility.

3. USFOR-A RESPONSE: USFOR-A has identified three categories of consequence management responses: (1) condolence payments to the individuals injured or killed in the strike; (2) reconstruction of the hospital building; and (3) repair or replacement of damaged or destroyed medical equipment.

a. Condolence payments. To date, USFOR-A has made payments to 77 representatives of the 273 wounded and deceased individuals through the Commander's Emergency Respond Program (CERP). Two more payment actions are scheduled for 24 January and 29 January 2016.

b. Reconstruction. The hospital building is owned by the GIRoA's Ministry of Commerce and Industries (MoCI) through the state-owned Spinzar Corporation. The GIRoA has requested that USFOR-A return the facility to the same condition it was prior to the strike. The US Army Corps of Engineers (USACE) conducted a damage assessment of the Spinzar building. The assessment determined that the facility's ground floor is a total loss because it sustained heavy damage from explosions and resulting fires. The facility's basement was partially damaged and is considered repairable. The current working estimate by USACE to reconstruct the structure as a general-purpose administrative facility is \$5,790,349.00. This estimate exceeds the amount of CERP funding available in Fiscal Year 2016.

c. Equipment. Mr. Rahman, Deputy Minister to the MoCI, has confirmed that GIRoA had nothing of value in the building on 3 October 2015. The USFOR-A Consequence Manager has repeatedly asked MSF representatives for a listing of damaged or destroyed equipment and a cost estimate to replace or repair it. In

USFOR-A CDR

SUBJECT: Request for Emergency and Extraordinary Expenses Funding

response, the MSF representative stated that MSF had no intention to request reimbursement or replacement of MSF's medical equipment.

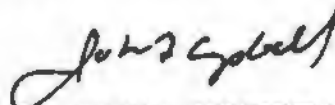
4. FUNDING: USFOR-A has sufficient CERP funds to make the condolence payments. USFOR-A's CERP budget does not contain sufficient funding to rebuild the GIRoA structure. USFOR-A staff could not identify another appropriate fund source sufficient to cover the costs of the building reconstruction. Accordingly, USFOR-A requests use of Triple E funds.

5. IMPACT IF NOT SUPPORTED: If not supported, the MoCI will lose a valuable property as a result of combat operations and the United States risks losing good will with GIRoA. Additionally, the US would remain under continued Afghan and international scrutiny. The burned-out building will remain a continued reminder of the tragic incident, fueling resentment and putting the security of the city at risk.

6. Point of contact for this memorandum is (b)(6); (b)(3):10 USC § 130b
or (b)(6); (b)(3):10 USC § 130b

Enclosures

1. USFOR-A SJA Legal Opinion
2. GIRoA Request to Reconstruct Facility
3. GIRoA Deed to Property
4. USACE Cost Estimate
5. USACE Assessment Report



JOHN F. CAMPBELL
General, U.S. Army
Commander,
Resolute Support /
United States Forces-Afghanistan

(b)(6)



Islamic Republic of Afghanistan

Office of the President

Request for Reconstruction

January 23, 2016

To: General John F. Campbell, Commander, United States Forces - Afghanistan

Subject: Spinzar Building Reconstruction

On 3 October 2015, United States military forces damaged a building owned by the Afghan Ministry of Commerce and Industry. Spinzar Company Kunduz, a government-controlled entity, manages the building. *Médecins Sans Frontières* conducted their operations from that building based on a lease agreement signed by Spinzar Company Kunduz.

The Government of the Islamic Republic of Afghanistan formally requests that United States Forces - Afghanistan reconstruct the building to its 2 October 2015 condition.

A handwritten signature in black ink, appearing to read "Mohammad Ashraf Ghani", written over a horizontal line.

Mohammad Ashraf Ghani

President of the Islamic Republic of Afghanistan

Kabul, Afghanistan



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**HEADQUARTERS
UNITED STATES FORCES - AFGHANISTAN
BAGRAM, AFGHANISTAN
APO AE 09354**

USFOR-A DCDR-S

23 January 2016

**FOR Commander, United States Forces-Afghanistan, Kabul, Afghanistan APO AE
09356**

SUBJECT: Request for Emergency and Extraordinary Expenses Funding

- 1. PURPOSE:** USFOR-A requests \$5,790,349.00 of Emergency & Extraordinary Expenses ("Triple E") funds for the reconstruction of the heavily-damaged hospital building owned by the Government of the Islamic Republic of Afghanistan.
- 2. BACKGROUND:** On 3 October 2015, U.S. combat activity in Kunduz, Afghanistan damaged a building owned by the Government of the Islamic Republic of Afghanistan (GIROA). Spinzar Company, a state-owned enterprise, managed the building and had leased the property to Medecins Sans Frontiers ("MSF," a.k.a. Doctors Without Borders). MSF was using the building as a hospital at the time of the strike. The strike resulted in the injury or death of 273 noncombatants and the near destruction of the facility.
- 3. USFOR-A RESPONSE:** USFOR-A has identified three categories of consequence management responses: (1) condolence payments to the individuals injured or killed in the strike; (2) reconstruction of the hospital building; and (3) repair or replacement of damaged or destroyed medical equipment.
 - a. Condolence payments.** To date, USFOR-A has made payments to 77 representatives of the 273 wounded and deceased individuals through the Commander's Emergency Respond Program (CERP). Two more payment actions are scheduled for 24 January and 29 January 2016.
 - b. Reconstruction.** The hospital building is owned by the GIROA's Ministry of Commerce and Industries (MoCI) through the state-owned Spinzar Corporation. The GIROA has requested that USFOR-A return the facility to the same condition it was in prior to the strike. The US Army Corps of Engineers (USACE) conducted a damage assessment of the Spinzar building. The assessment determined that the facility's ground floor is a total loss because it sustained heavy damage from explosions and resulting fires. The facility's basement was partially damaged and is considered repairable. The current working estimate by USACE to reconstruct the structure as a general-purpose administrative facility is \$5,790,349.00. This estimate exceeds the amount of CERP funding available in Fiscal Year 2016.
 - c. Equipment.** Mr. Rahman, Deputy Minister to the MoCI, has identified that GIROA had nothing of value in the building on 3 October 2015. The USFOR-A Consequence Manager has repeatedly asked MSF representatives for a listing of damaged or destroyed equipment and a cost estimate to replace or repair it. In response, the MSF

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USFOR-A DCDR-S

SUBJECT: Request for Emergency and Extraordinary Expenses Funding

representative stated that MSF had no intention to request reimbursement or replacement of MSF's medical equipment.

4. FUNDING: USFOR-A has sufficient CERP funds to make the condolence payments. USFOR-A's CERP budget does not contain sufficient funding to rebuild the GIRoA structure. USFOR-A staff could not identify another appropriate fund source sufficient to cover the costs of the building reconstruction. Accordingly, USFOR-A requests use of Triple E funds.

5. IMPACT IF NOT SUPPORTED: If not supported, the MoCI will lose a valuable property as a result of combat operations and the United States risks losing good will with GIRoA. Additionally, the US would remain under continued Afghan and international scrutiny. The burned-out building will remain a continued reminder of the tragic incident, fueling resentment and putting the security of the city at risk.

6. Point of contact for this memorandum is (b)(6); (b)(3):10 USC § 130b
or (b)(3):10 USC § 130 (b)(6).

Enclosures

1. USFOR-A SJA Legal Opinion
2. GIRoA Request to Reconstruct Facility
3. GIRoA Deed to Property
4. USACE Cost Estimate
5. USACE Assessment Report

Jeffrey L. Bannister
JEFFREY L. BANNISTER
Major General, U.S. Army
Deputy Commander, Support
United States Forces-Afghanistan

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Project Title: Kunduz Repair Hospital

Program: Emergency and Extraordinary Expense

A: Letter of Justification

B: Office of Council Legal Opinion

C: GIRA Deed of Property / GIRA Request for reconstruction

D: USACE cost estimate

E: USACE Afghan technical Support Team (ATST) Assessment Report



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HEADQUARTERS
UNITED STATES FORCES-AFGHANISTAN
BAGRAM, AFGHANISTAN
APO, AE 09354

SUBJECT: Emergency and Extraordinary Expense (EEE) Funding Request for Kunduz		DATE: 22-Jan-16	
PURPOSE: (Identify what needs to be done: Signature/Decision/Approval/Information Only): Request approval and signature of enclosed EEE funding request to reconstruct the Spinzar building in Kunduz.			
BACKGROUND: (Provide brief explanation on background of the package): The Spinzar building, a GIROA owned entity, was being leased to the Medecins Sans Frontiers (MSF) for use as a hospital in Kunduz when it suffered significant battle damage. The Ministry of Commerce and Industries confirmed ownership and requested the facility be rebuilt to its original state. It was ascertained from the report prepared by the USACE Afghan Technical Support Team (ATST) that the ground floor of the building would need to be demolished and reconstructed.			
ORIGINATOR: Phone: (b)(6) (b)(6); (b)(3):10 USC § 130b		ACTION OFFICER: <input checked="" type="checkbox"/> Check here if same as Originator Rank: Name: Office: Email:	
COORDINATION / APPROVAL			
Section: DCDR-S	Rank/Name: AIG BANNISTER	Concurrence: (Yes/No)	Initials: <i>AB 23 JAN 16</i>
Section: CoS	(b)(6); (b)(3):10 USC § 130b		
Section: SJS			
Section: J3			
Section: J8			
Section: J9			
Section: SJA			
Section: JENCI			
REMARKS/COMMENTS: (Recommendations, Background, Options, Impact, Conclusions from coordination / Approval Section): Sir - NO legal issues, "EEE" is the best most appropriate funding stream for the rebuild of the Kunduz facility. (b)(1)			

USFOR-A
Secretary of Joint
Staff (SJS)

Date:
Tracking #:

(b)(5) ; (b)(6) ; (b)(3); 10 USC § 1305

(b)(5)

(b)(5)

(b)(6)

(b)(5)



DEPARTMENT OF THE ARMY
UNITED STATES ARMY CORPS OF ENGINEERS
TRANSATLANTIC AFGHANISTAN DISTRICT
BAGRAM AIRFIELD
APO AE 09354-1053

CETAA-EC

MEMORANDUM FOR: USFOR-A, Attn: (b)(6)

SUBJECT: Rough-Order-Magnitude Estimate for Kunduz Hospital

1. A site assessment of the damaged Kunduz Hospital was performed in 25 November 2015 and a final report was prepared dated 7 December 2015. Based on the results of that inspection and assessment, our office has developed the attached cost estimate in planning and budgeting for a replacement facility.

2. The basis of the cost estimate includes the following assumptions:

- The existing hospital will be demolished to the slab-on-basement level and the new facility will be constructed at the same location.
- The existing utility capacities are available to support the new facility.

3. Please contact the undersigned at (b)(6) or at (b)(6) for any questions you may have.

(b)(6)

Chief of Engineering and Construction
Division

Attachment

Rough Order Magnitude (ROM) Estimate

Kunduz MSF Hospital
Kunduz Province, Afghanistan

Date
Source

23-Jan-2016
Historical Date

CLIN No.	Description	Quantity	Unit	Unit Price	Total Amount
0001 DESIGN PROGRAM					
0001AA	DB Contractor Design	1	LS	\$220,000	\$220,000
0001AB	As-Built Drawings	1	LS	\$6,000	\$6,000
0001AC	Site Survey	1	LS	\$8,000	\$8,000
0001AD	Site Security	1	LS	\$180,000	\$180,000
0002 SITE DEVELOPMENT / IMPROVEMENTS					
0002AA	Mob/Demobilization	1	LS	\$250,000	\$250,000
0002AB	Site Demolition/Grading	1	LS	\$300,000	\$300,000
0002AC	Water Distribution System	1	LS	\$10,000	\$10,000
0002AD	Sanitary Sewer Collection System	1	LS	\$8,000	\$8,000
0002AE	Site Electrical Power Distribution System	1	LS	\$25,000	\$25,000
0002AF	Site Communication System	1	LS	\$10,000	\$10,000
0003 FACILITIES					
0003AA	Kunduz MSF Hospital	1	LS	\$3,450,000	\$3,450,000
TOTAL CONSTRUCTION					\$4,467,000
PED/PPP Development					\$288,020
Contingency					\$670,050
Supervision & Administration (SIOH)					\$385,278
Total ROM Estimate					\$5,790,348

See Note 1

Prepared by

(b)(6)

Reviewed By

Approved By

General Notes

- * All utilities (water, sewer, power, and communication) were assumed to be connected to the existing system
- * No repair/upgrade of existing utility system was considered
- * New facility shall have the same footprint and functionality as the existing facility
- * Upgrade of existing facility furniture and equipment was not required
- * No site work was required, except for erosion control
- * Basement work was not required
- * Existing concrete slab can be reused, as is
- * Existing facility was 2,300 m²

Note 1.

- * New facility 2,300 m² at \$1,500/m²

Period of Performance (PoP)

- * RFP Preparation & Acquisition = 6 months
- * Construction Duration = 24 months
- * Total = 30 months



U S Army Corps of Engineers
Transatlantic Afghanistan District (TAA)



Afghan Technical Support Team (ATST)

Assessment Report

Date: 12/07/2015

Project Name& Location
Medecins Sans Frontiers (MSF) Hospital
Kunduz, Afghanistan
Contract Number: (N/A)
Inspection Discipline:
Civil/Arch, Structure, Mechanic and Electric
Provide by: ATST-South Team

Team Members:

(b)(6)

(Structure)
(Architect)
(Civil)
(Mechanical)
(Electrical)

Reviewed By: (b)(6) **ATST- Program lead Engineer**

**AFGHAN TECHNICAL SUPPORT TEAM (ATST), ASSESSMENT REPORT
LOG OF CONSTRUCTION – MILITARY**

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Appendix A: Drawings (Plan and Section)

Appendix B: Civil/Architecture Assessment Photography

Appendix B-I: Structure Assessment Photography

Appendix B-II Mechanical Assessment Photography

Appendix B-III Electrical Assessment Photography

Appendix C Site photos

**AFGHAN TECHNICAL SUPPORT TEAM (ATST), ASSESSMENT REPORT
LOG OF CONSTRUCTION – MILITARY**

**Medecins Sans Frontiers (MSF) Hospital
Kunduz, Afghanistan**

Contract No. (N/A)
Inspection Date – 11/25/2015

General Narrative:

According to the given instruction ATS team execute site inspection from the entire Medecins Sans Frontiers (MSF) Hospital of Kunduz, Afghanistan. ATS team assigned to Sketch the entire building provide the requested information.

As a result, this report prepared to present the response for the requested information. This report consist of general narrative, Report Summary of assessment from the entire structural including the utilities system of MSF hospital and existing Utilities 'connections. The Actual drawings plan indicated as appendix A; specifies the layout and dimensions of existing Hospital building, existing utilities system. As well as, Appendix B indicates Civil/Arch photography and report, Appendix B-I indicate structure photography and Report, Appendix B-II indicates Mechanical photography and report, and Appendix B-III indicates Electrical photography and report. Appendix C; are the photos indicates the supporting photos from the entire project site. For more information refer to each discipline photography, reports and appendices A, B-BIII and C.

Report Summary

According to the given instruction, ATS team creates this report as a final product. This report indicates mandatory information that presents (MSF) Hospital of Kunduz, the Update / actual plans, site photos, existing facilities and existing Utility condition. The following details are guides for more assistance and well understanding of this report which are:

- 1- Appendix A: Drawings of the MSF hospital plans, MSF hospital building has been divided to three sections. Each section named Wing A, wing B and Wing C. as well as, all rooms are numbered has for more facilitation of the references. Appendix indicates the actual plans contain the buildings' actual location and the existing statues of the building including the 1, dimensions and layout. Appendix A has been linked with appendix B, B-I and B-II.
- 2- Appendix B, B-I - B-III describes the site photography and details including the description regarding the referenced photos, as well as the Appendix B, B-I, B-II and B-III present the four discipline s' reports (Civil/ Arch photography, Structure photography report, Mechanical photography report and Electrical photography report). Appendix B, B-I & B-II linked to Appendix A, for building's location and condition.
- 3- Appendix C is the site photos. Each discipline photos separated in folders. The discipline photos have been organized in a folder and numbered in according the rooms' numbers which are indicated on First floor plan Sheet# A-103&A-104.

**AFGHAN TECHNICAL SUPPORT TEAM (ATST), ASSESSMENT REPORT
LOG OF CONSTRUCTION - MILITARY**

Each Discipline General Information

This information is made up for four main disciplines which are Civil/Arch. Structure, Mechanic and Electrical disciplines. Each discipline indicates the existing statues of the buildings and the related utility system of the MSF hospital. Each discipline vision has been reported individually as follow:

Civil/ Architecture Assessment Summary

MSF Hospital Main Building Civil Works:

Building gutters are all burned and destroyed, additionally the building sidewalks partially damaged. As per visual inspection, the manholes related to the building are in good condition and manholes covers are partially damaged. For more information please refer to appendix B, photo # 49 & 50 and Mechanical and electrical reports for more details.

MSF Hospital Main Building Architectural Works:

As per building sketched plan, the MSF main building first floor divided into three parts (A, B and C).

MSF Hospital first floor, main building wing A & C areas:

The building Section A and C areas are completely burned out and destroyed. All walls, ceramic tile floors, roof, ceiling, PVC windows and PVC doors destroyed and burned and all of them are not repairable and operational.

Inside of the first floor building was previously divided by brick masonry partition walls that after the accident all the walls burned and destroyed.

For more information please refer to appendix B, photo # 1 through 26 and sketched drawing, sheet A-102 (Kunduz, MSF Hospital Buildings Wings Classification Plan.

First floor wing B area, south side:

The room's concrete walls and roof including gypsum suspended ceilings damaged and the ceramic floors are in good condition but full of debris.

PVC doors and windows of building wing B rooms damaged and glasses broken.

For more information please refer to appendix B, photo # 27 through 36 and sketched drawing, sheet A-102 (Kunduz, MSF Hospital Buildings Wings Classification Plan.

Building Basement:

There are two basements in this building located in the east and west sides.

East Side basement:

AFGHAN TECHNICAL SUPPORT TEAM (ATST), ASSESSMENT REPORT
LOG OF CONSTRUCTION - MILITARY

The concrete stair of the east basement is partially damaged. No door was installed in the basement and only PVC windows installed.

The concrete plaster and paint of the east basement partially damaged and is repairable. For more information please refer to appendix B, photo # 37 through 42 and sketched drawing, sheet A-103 (Kunduz, MSF Hospital Basement Floor Plan).

West Side basement:

No door was installed in the basement and only PVC windows installed.

The paint of the east basement partially damaged and is repairable. Moreover, the roof of the east basement damaged by rocket. For more information please refer to appendix B, photo # 43 through 48 and sketched drawing, sheet A-103 (Kunduz, MSF Hospital Basement Floor Plan).

Structural Assessment Summary

MSF Hospital is located Kunduz province, Afghanistan. According to MSF Coordinator statements /information; "Due to Bombing/ rocket with heavy explosion and fire; MSF hospital has been totally burned". Due to many explosions and fire the hospital building has been damaged and burned. This report presents the current condition/ statuses of the MSF building.

Structurally, the MSF building modeled one story with two separate basements which are located on the East and West side of the hospital. For more facilitation, the building has been divided into three parts and named Wing A (East section) Wing B (Middle section) and Wing C (West section), each rooms of the building numbered individually refer to appendix A see plans A-103& A-104.

Due to the fire and explosions impacts; the entire roof of this building which was constructed by wooden truss, Roof sheets and fall ceiling has been damaged. But section B which is different with section A&C in structure is partially damaged. This section has concrete frame structure.

The most damages occurred into section A&C. Both section walls have been constructed by brick masonry wall. Mostly, the exterior and interior walls damaged.

1. Exterior finishing and Roof truss with sheeting, insulation, purlins and roof rafters from absolutely damaged and not usable. For more information refer to appendix B-I see photo# 1-36.
2. Interior finishing: the ceilings, walls, floors, slabs, doors, windows including the existing hospital stuff and equipment has been burned and damaged. Section B which is located at the middle of the other wings less damaged. But, most damages occurred on section A and C. For more information refer to appendix B-I see photo# 37-78.
3. According to site visual inspection, all doors and windows are made of PVC. With different sizes (1.35X1.4, 1.2x1, 27, 1.2x1.5...) all windows and doors has been burned or damaged. For more information refer to appendix B-I see structural photography.
4. Interior finishing: suspend ceiling, concrete/ ceramic floors, walls are plastered. For more information refer to appendix B-I see photo# 1-4, 35, 36, 66, 67, 70&72.

AFGHAN TECHNICAL SUPPORT TEAM (ATST), ASSESSMENT REPORT
LOG OF CONSTRUCTION - MILITARY

5. Also, the explosion has effected on other facilities which are located all around the hospital. Some existing facilities have been damaged and needs repairing. For more information refer to appendix B-I see photo# 8, 11, 28, 35& 36.
6. Structure photography indicates the exterior perimeter walls and building condition, including the interior condition. It indicates structure statues as well. For more information refer to appendix B-I see photography.

Mechanical Assessment Summary

During inspection of Kunduz hospital that we have conducted on the mechanical system, which is included: Water, Sewer, Heating and ventilation system of the MSF Hospital. Due to the explosions and fire, the entire mechanical system which was operable into inside and outside of the hospital was damaged. In the building, which has been destroyed had central heating system, consist of two boiler, two pump, one diesel tank that were located into basement; and radiators, supply pipes system and return pipe system that located inside the building's rooms. With regard to, water system, there were three water storage tanks inside the hospital area, which was pumping the water all through the building by booster pump and the building's sewer systems were all directed toward to three leach fields, which were located around the building. The following are more information about the mechanical system.

Heating system

In Kunduz Hospital, almost everything related to central heating system inside the rooms (radiators and pipes) were destroyed and need reconstruction, except two boilers, two pump and a diesel tank which were located in the basement. Refer to Appendix E Mechanical supporting Photo report, photos# 1, 2, 3, 4, 5, 6, 7 and 8.

Water System

There were three water storage tanks (two located on the ground and another elevated water storage) inside the hospital area, which are pumping the water all through building by booster pump. Furthermore, all expose pipes, fixtures and sanitary materials (water closet, lavatory, sink and water heater) inside the building were damaged; all of them must be reconstructed and underground pipes need to be tested. Refer to Appendix E Mechanical supporting Photo report, photos# 9-20.

Sewer System

The building's sewer systems were all directed toward four leach fields, which were located around the building; and all the expose pipes (Above the ground pipes) were destroyed being inside or outside the building. Furthermore, underground pipes are not visible and tests such as, pressured test, leakage test, stack tests are required to determine the problem. Refer to Appendix E Mechanical supporting Photo report, photos# 21-24.

Ventilation

In the Kunduz hospital (damaged building) during our inspection and observation there were ventilation duct with louver in three different location of the building. Furthermore, all three ventilation ducts with louvers have been destroyed. Refer to Appendix E Mechanical supporting Photo report, photos# 24-28.

**AFGHAN TECHNICAL SUPPORT TEAM (ATST), ASSESSMENT REPORT
LOG OF CONSTRUCTION – MILITARY**

Electrical Assessment Summary

All electrical systems have been damaged, burned out and not operational in MSF Kunduz Hospital main building.

Location: MSF Kunduz Hospital main building

Photo information: All electrical systems have been damaged, burned out and not operational for more detail see Appendix III photo# 01 up to 12.

Location: MSF Kunduz Hospital main building basements

Photo information: The basement of the building is divided into two parts; both basements have been located on East and West sides of the Hospital Wing A & C in accordance to the building plan Sheet # A-102. The west site basement electrical system have not been installed from the beginning and in the east site electrical system have been installed but now it is not operational, electrical wiring is in poor conditions and their connection with the power supply interrupted for more detail see Appendix III photo# 13 up to 16.

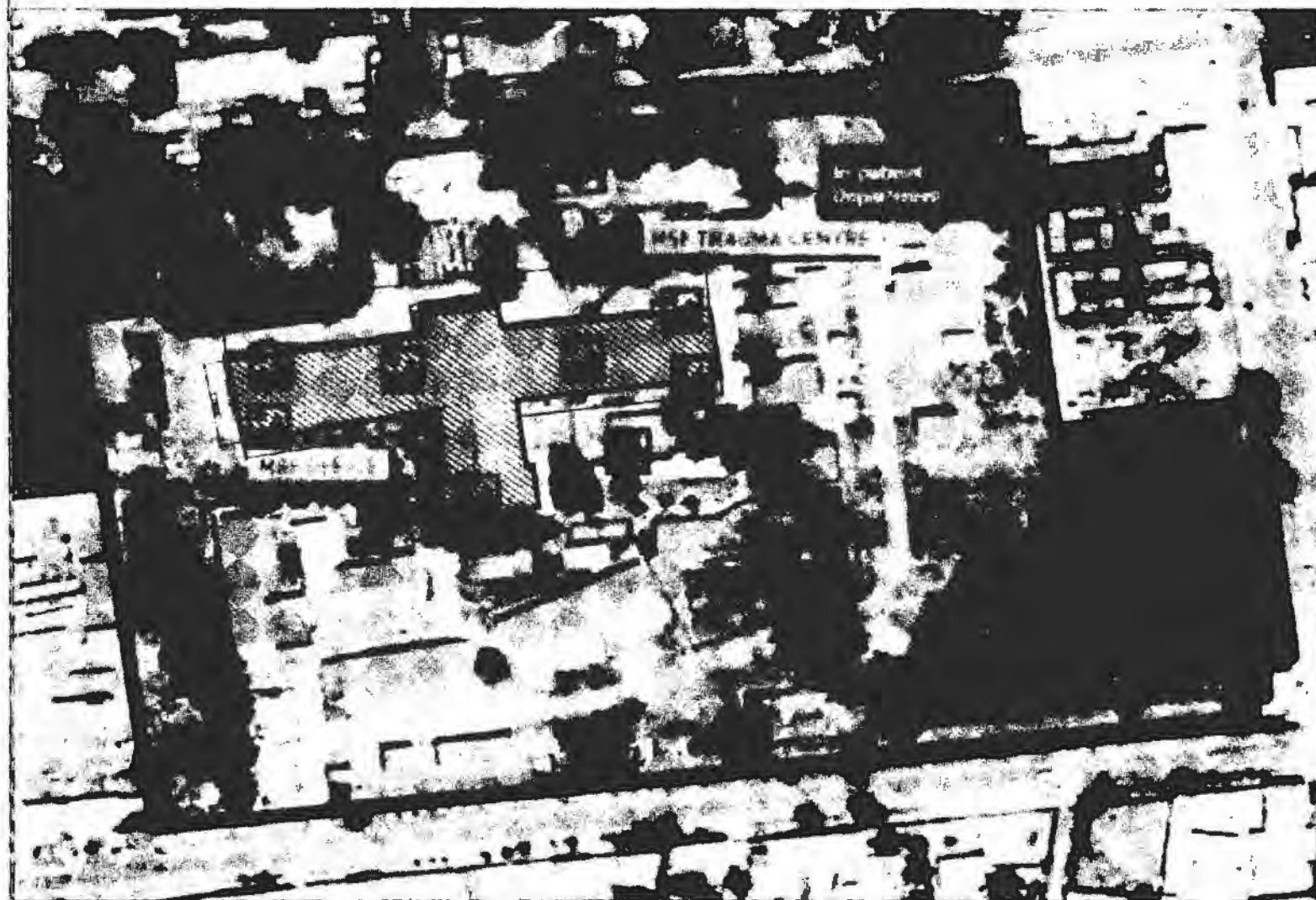
Location: MSF Kunduz Hospital

Photo information: The electrical cable that feeds the building has been cut in outside of the building see photo# 17 and 18. Electrical cables in the manholes are not verified. Due to damage of manholes it was not specific that which cable is feeding the building. Moreover, This Hospital has been powered by four Generators and one stepdown transformer which is feed from city power. Generators and transformer are located in south site of main building, the distance between main building and Generators; transformer is about 85 Meters for more detail see Appendix III photo# 17 up to 24 in electrical photography section.

APPENDIX A

Architecture Drawings

Plans and section



KUNDUZ, MSF HOSPITAL EXISTING AERIAL MAP

APPENDIX A. KEY PLAN
NOT TO SCALE DIA. (mm)

MP-001

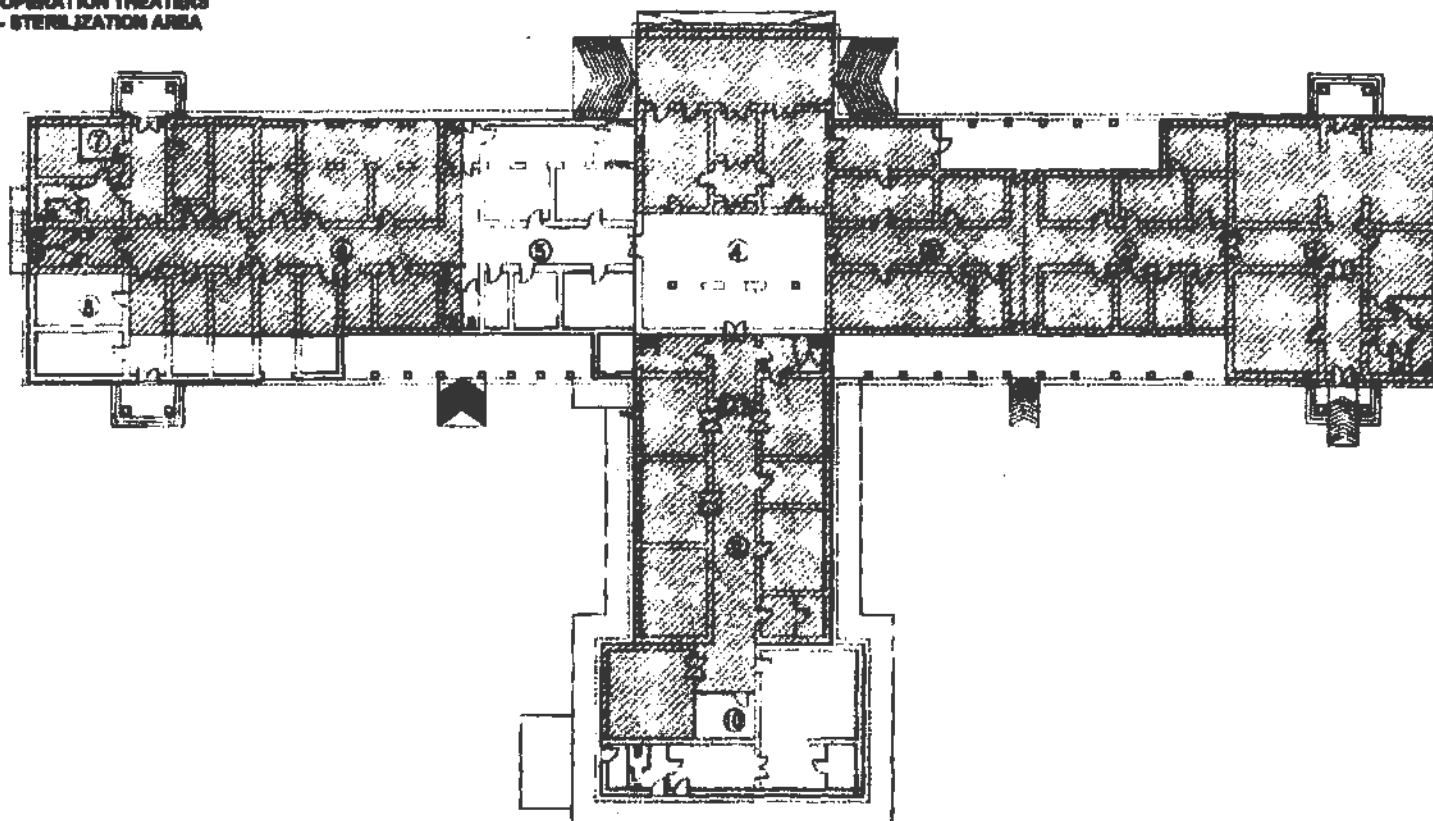
AFGHAN TECHNICAL SUPPORT TEAM
(ATST)
HALL
ACCOMMODATION
KITCHEN
DINING ROOM
BATHROOM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----



**FACILITIES
CLASSIFICATION :**

- 1- INTENSIVE CARE UNIT
- 2- LABORATORY
- 3- EMERGENCY ROOM
- 4- MAIN HALL
- 5- X-RAY
- 6- OUTPATIENT DEPARTMENT
- 7- MENTAL HEALTH
- 8- PHYSIOTHERAPY
- 9- OPERATION THEATERS
- 10- STERILIZATION AREA



KUNDUZ, MSF HOSPITAL BUILDING CLASSIFICATION PLAN



A-101

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

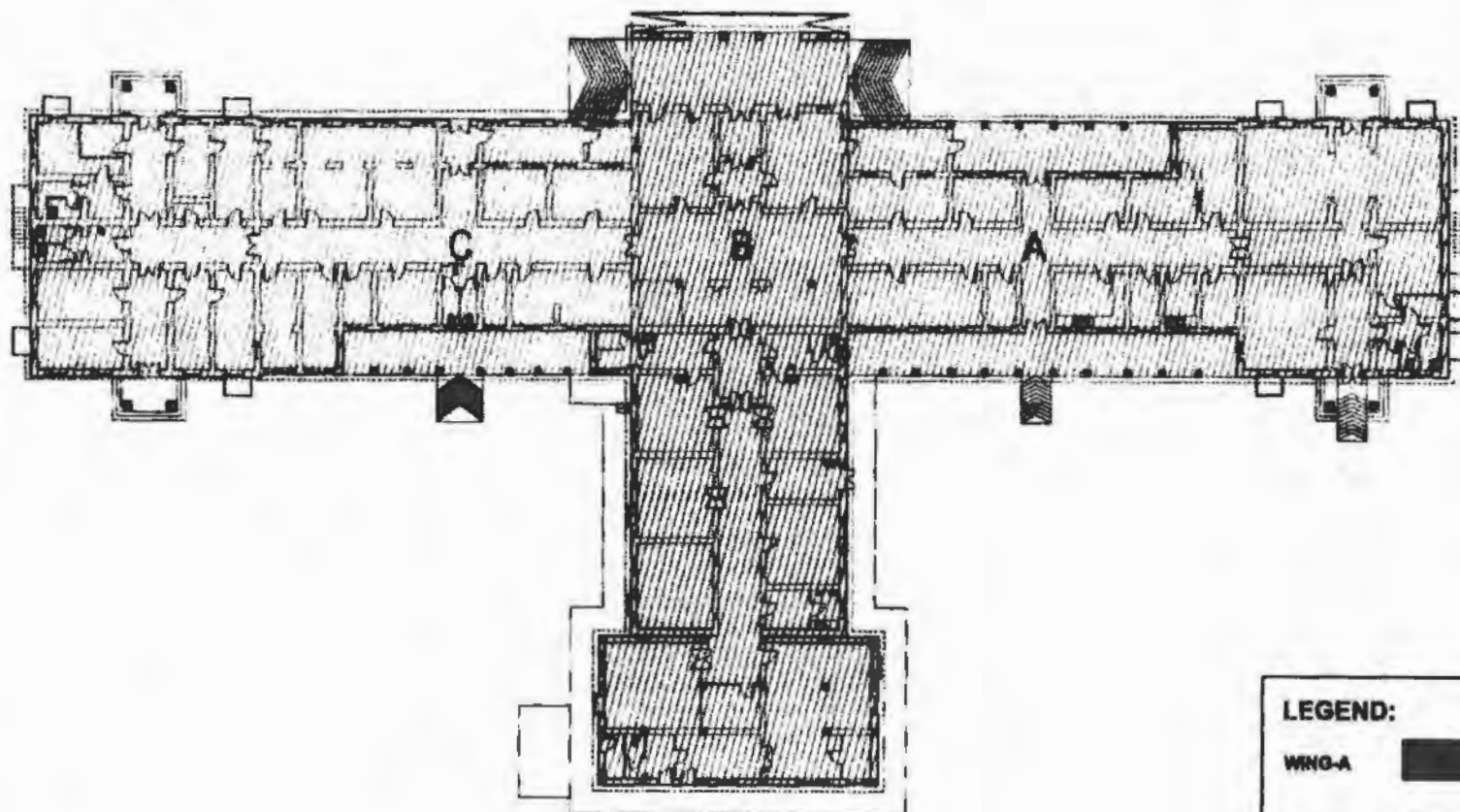
AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT

AFGHAN MEDICAL SUPPORT UNIT



LEGEND:

WING-A



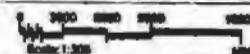
WING-B



WING-C

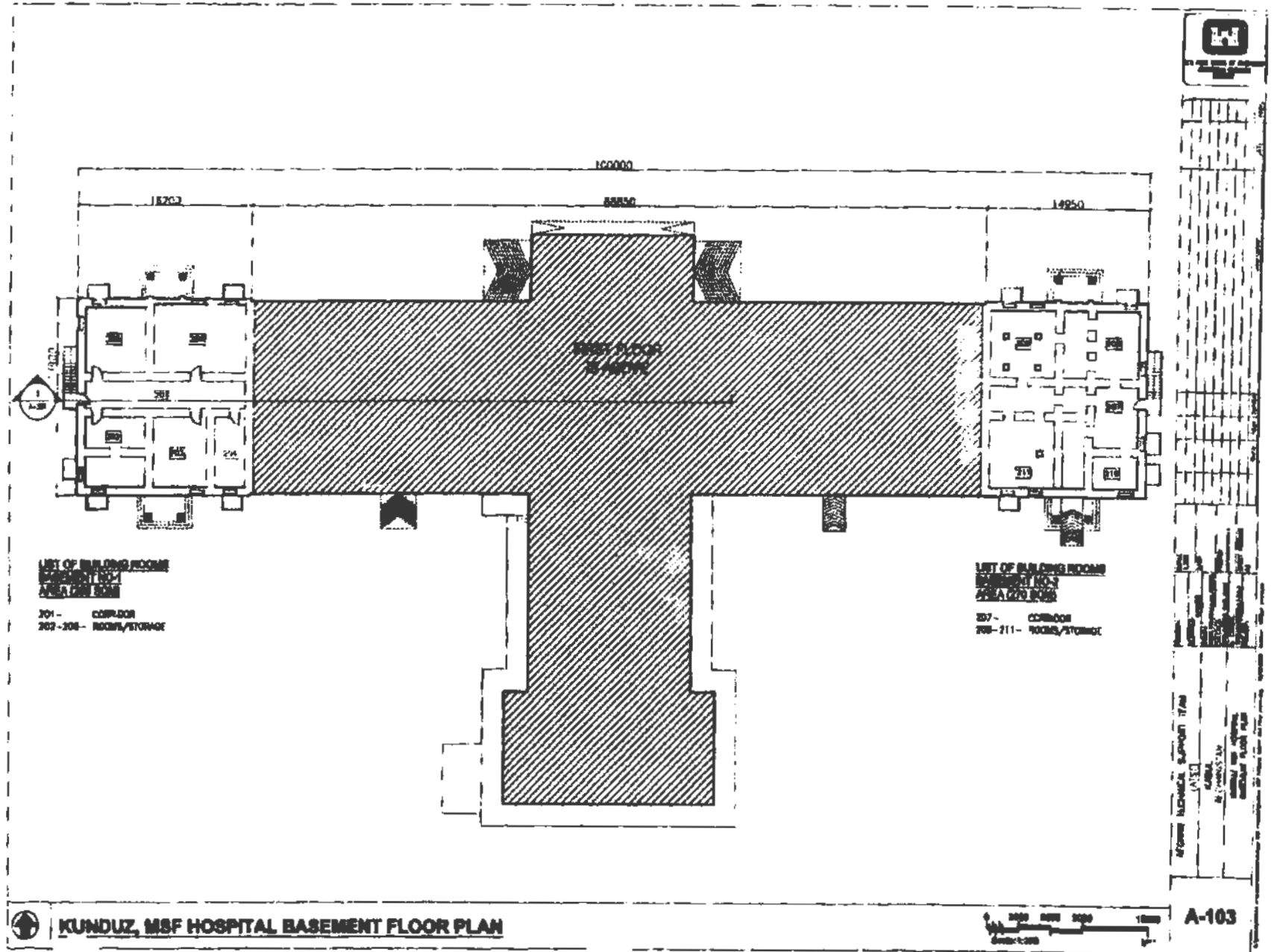


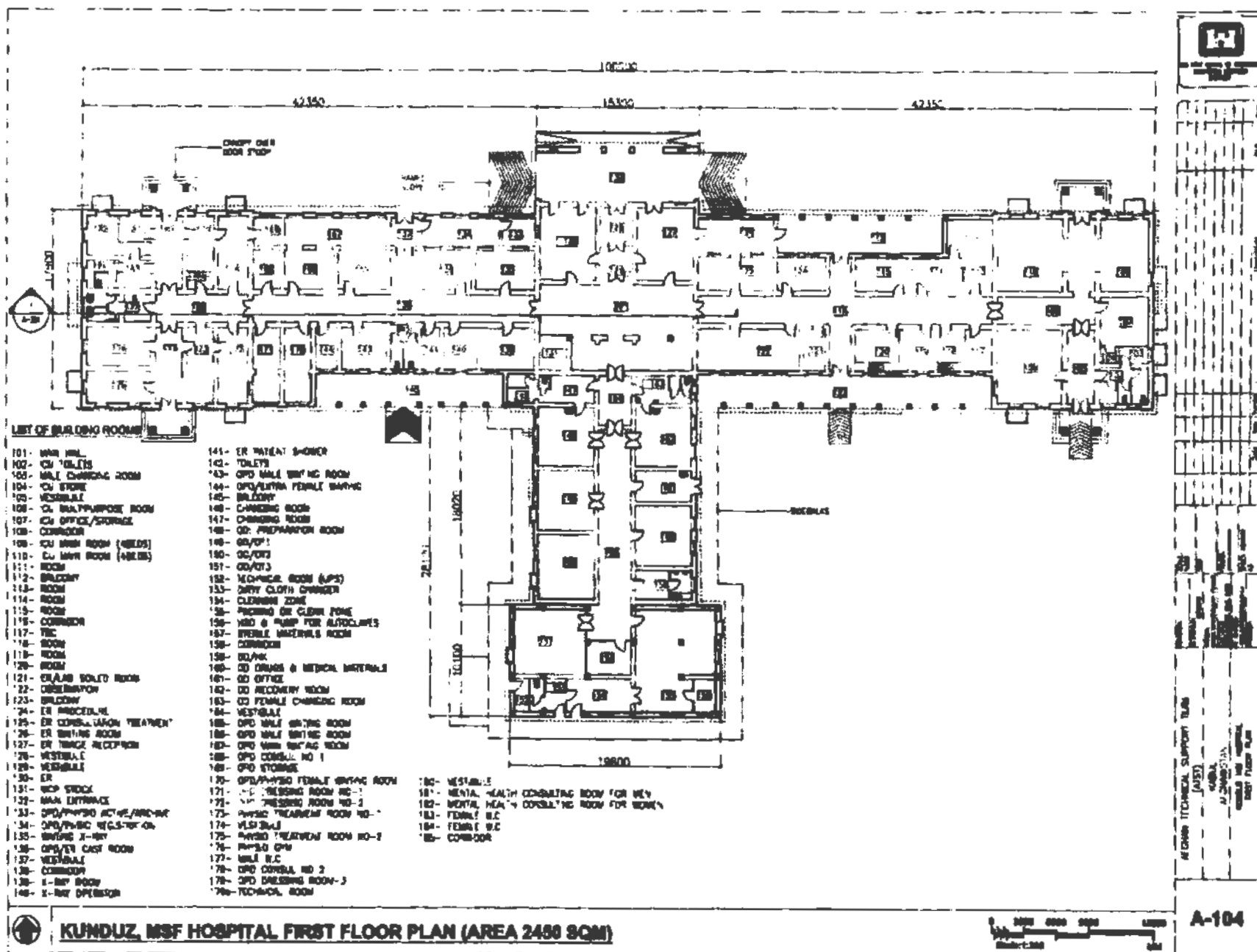
KUNDUZ, MSF HOSPITAL BUILDING WINGS CLASSIFICATION PLAN

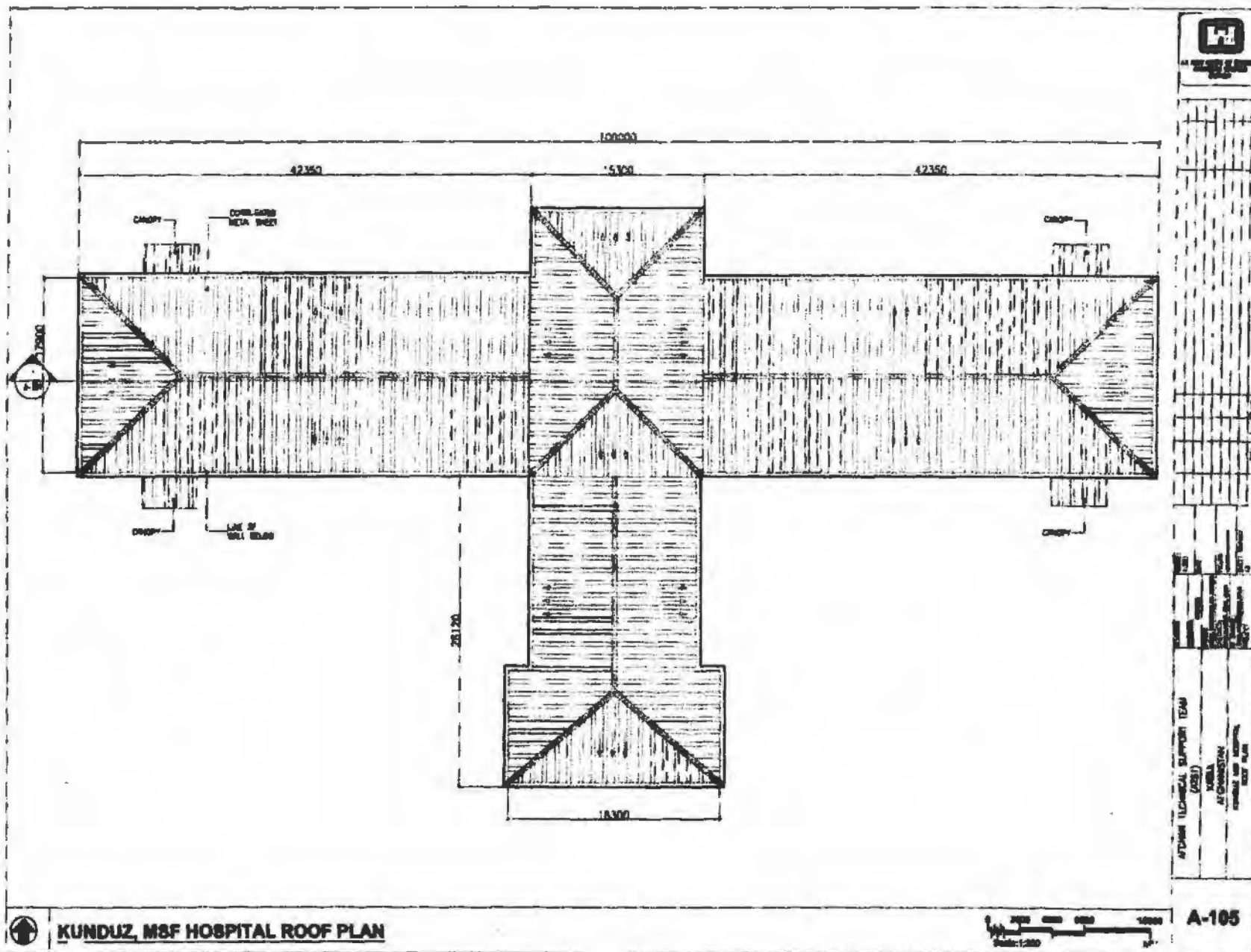


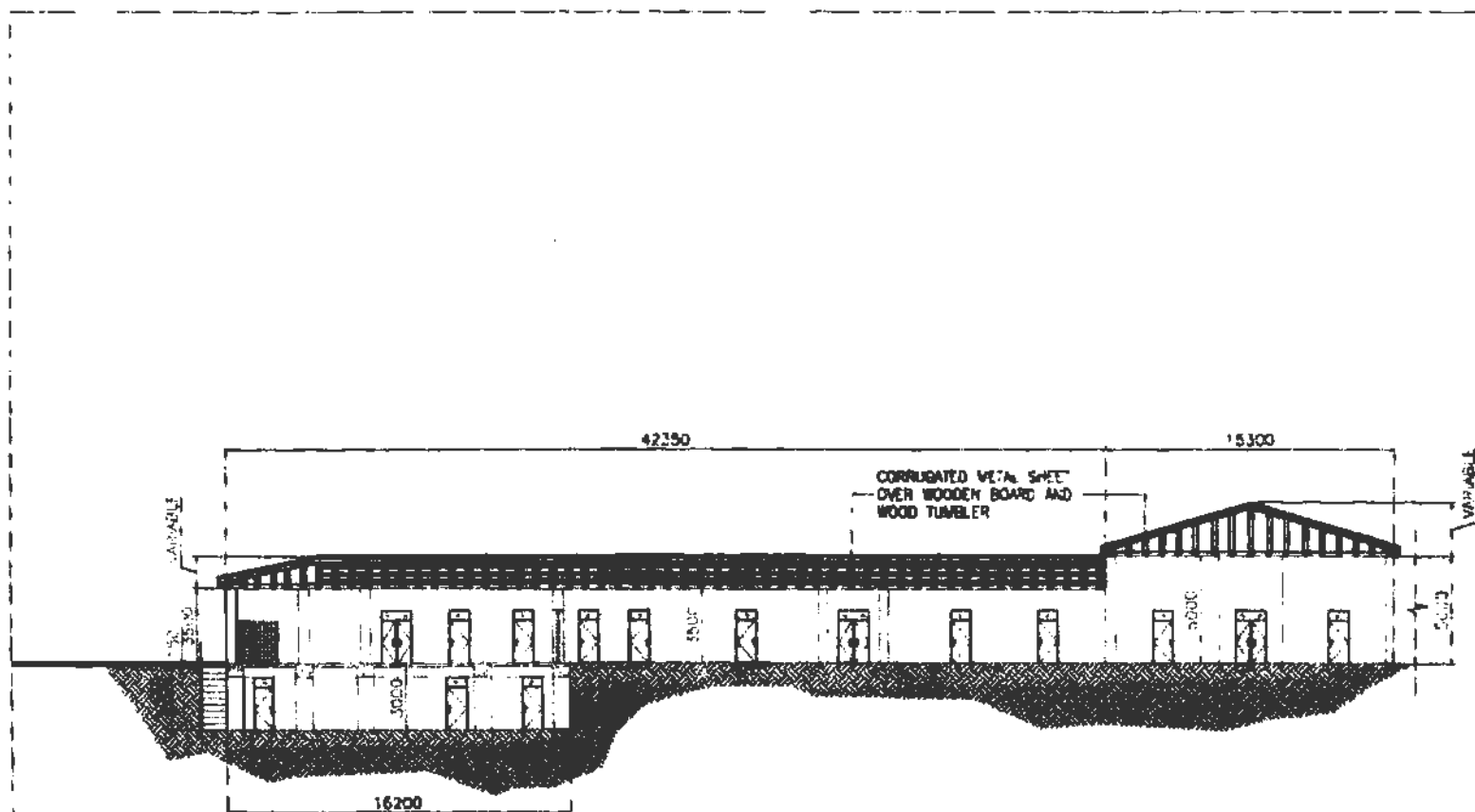
A-102

AFGHAN TECHNICAL SUPPORT TEAM
[AUST]
KABUL
AFGHANISTAN
KUNDUZ MSF HOSPITAL
BUILDING WINGS CLASSIFICATION PLAN









KUNDUZ, MSF HOSPITAL BUILDING SECTION



REGIONAL SUPPORT TEAM
(RTT)
BUILD
PROVISIONAL
DESIGN BY MSF
BUILDING SECTION

A-301

APPENDIX B

Civil and Architecture

Assessment photography



First Floor and basement MSF Hospital Building

Kunduz MSF Hospital Exterior Photos

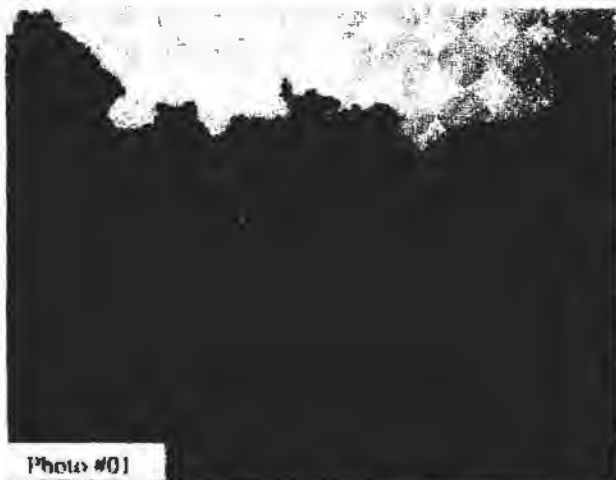


Photo #01

Kunduz MSF Hospital: Exterior photos
Information: General view, building front.

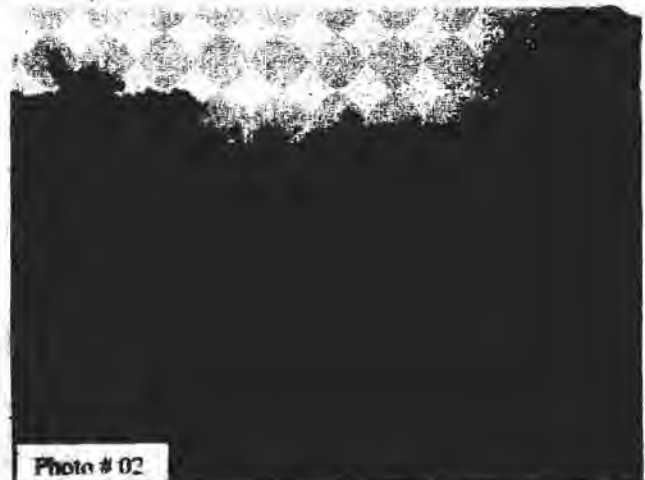


Photo # 02

Kunduz MSF Hospital: Exterior photos
Information: Building North

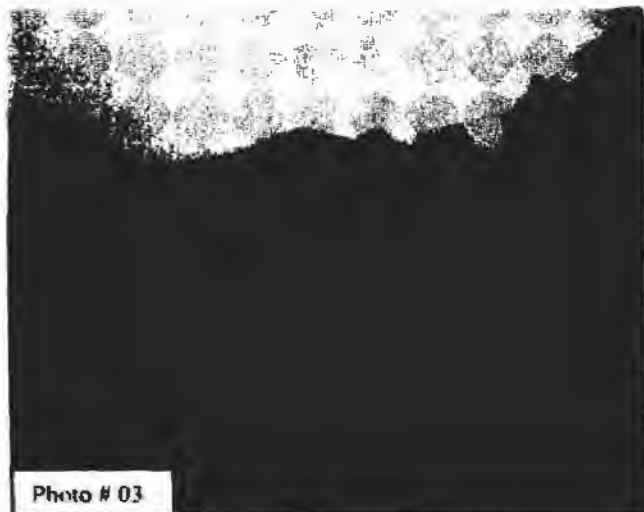


Photo # 03

Kunduz MSF Hospital: Exterior photos
Information: Building East elevation



Photo # 04

Kunduz MSF Hospital: Exterior photos
Information: entrance



MSF Hospital, Building # 505
Interior Photos

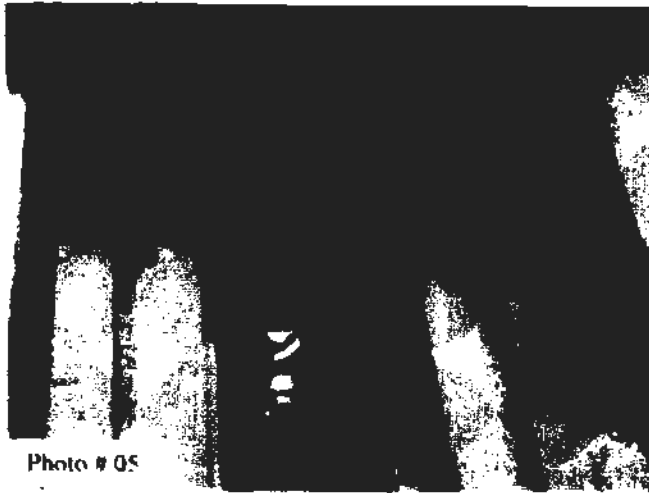


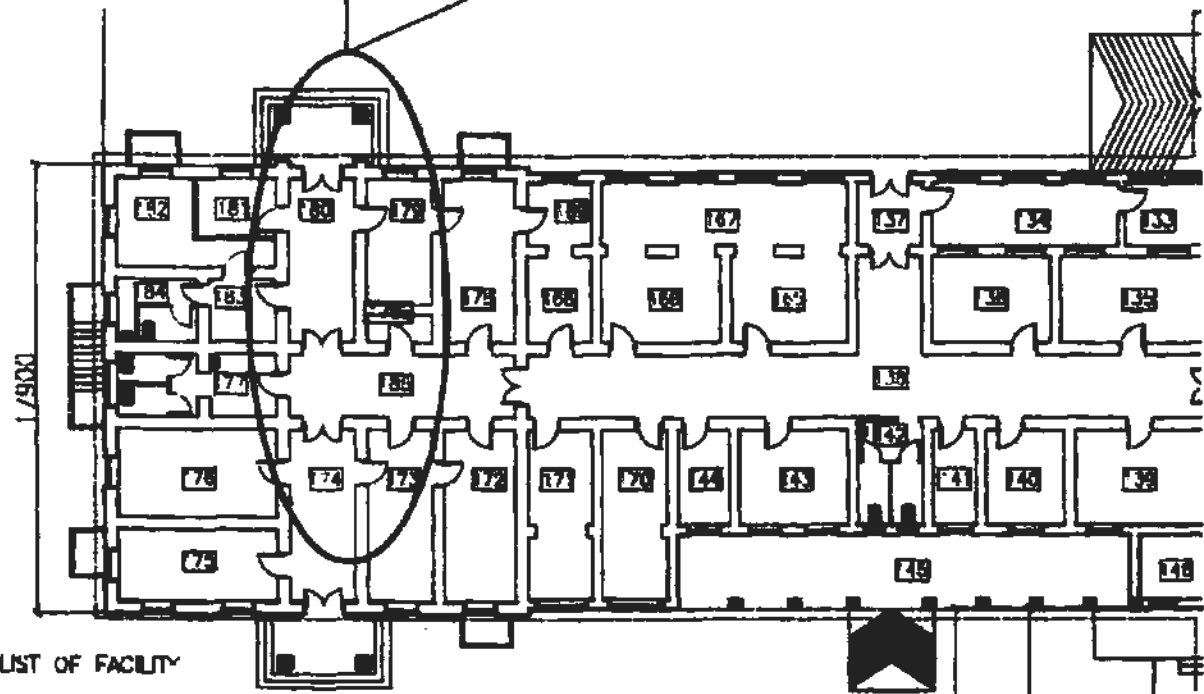
Photo # 05



Photo # 06

Kunduz MSF Hospital:

Information: The building Section, wing A & C areas are completely burned out and destroyed. All walls, ceramic tile floors, roof, ceiling, PVC windows and PVC doors destroyed and burned.



LIST OF FACILITY

Hospital main building wing A

Appendix B

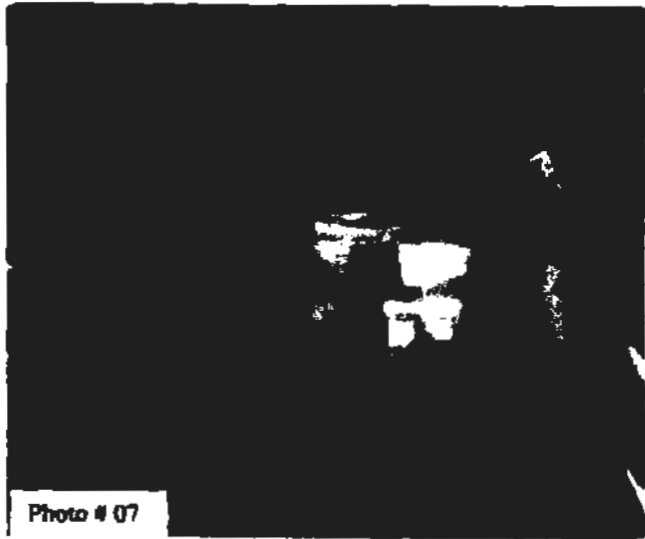


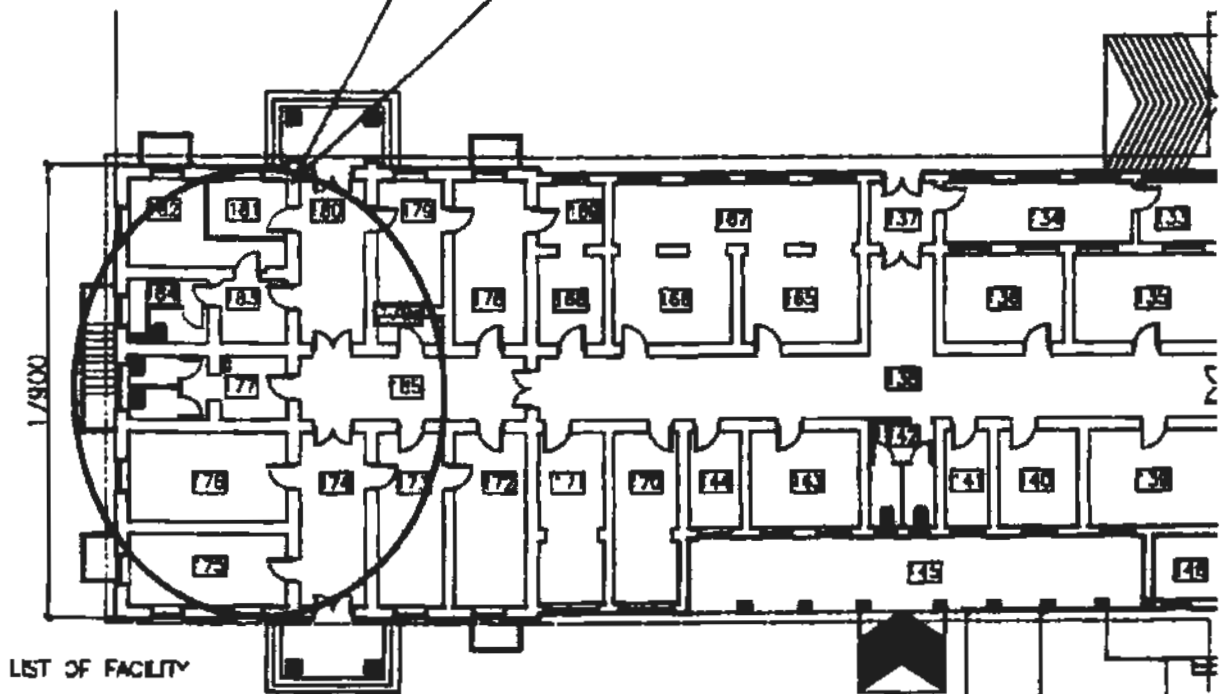
Photo # 07



Photo # 08

Kunduz MSF Hospital:

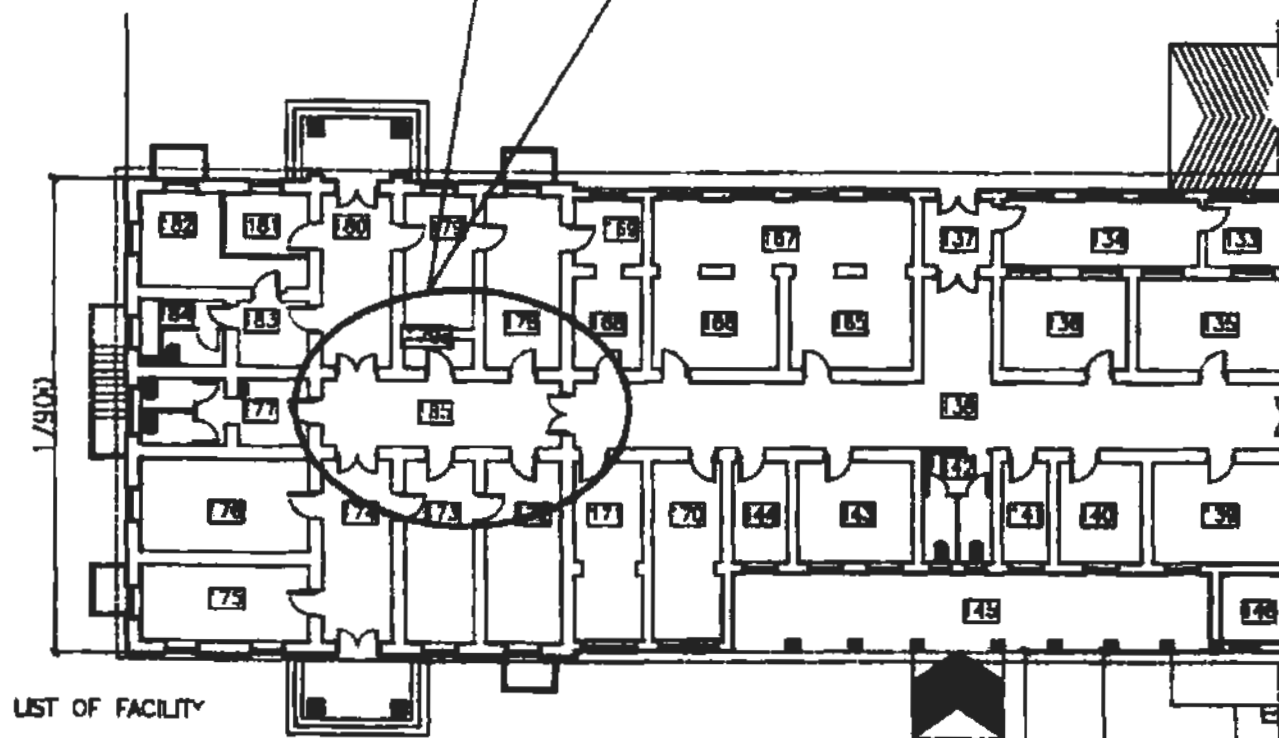
Information: The building Section A and C areas are completely burned out and destroyed.



**Photo # 09**

Photo # 10

Information: The roof of Wing /section A and C of the main building is completely destroyed and burned.



Appendix B



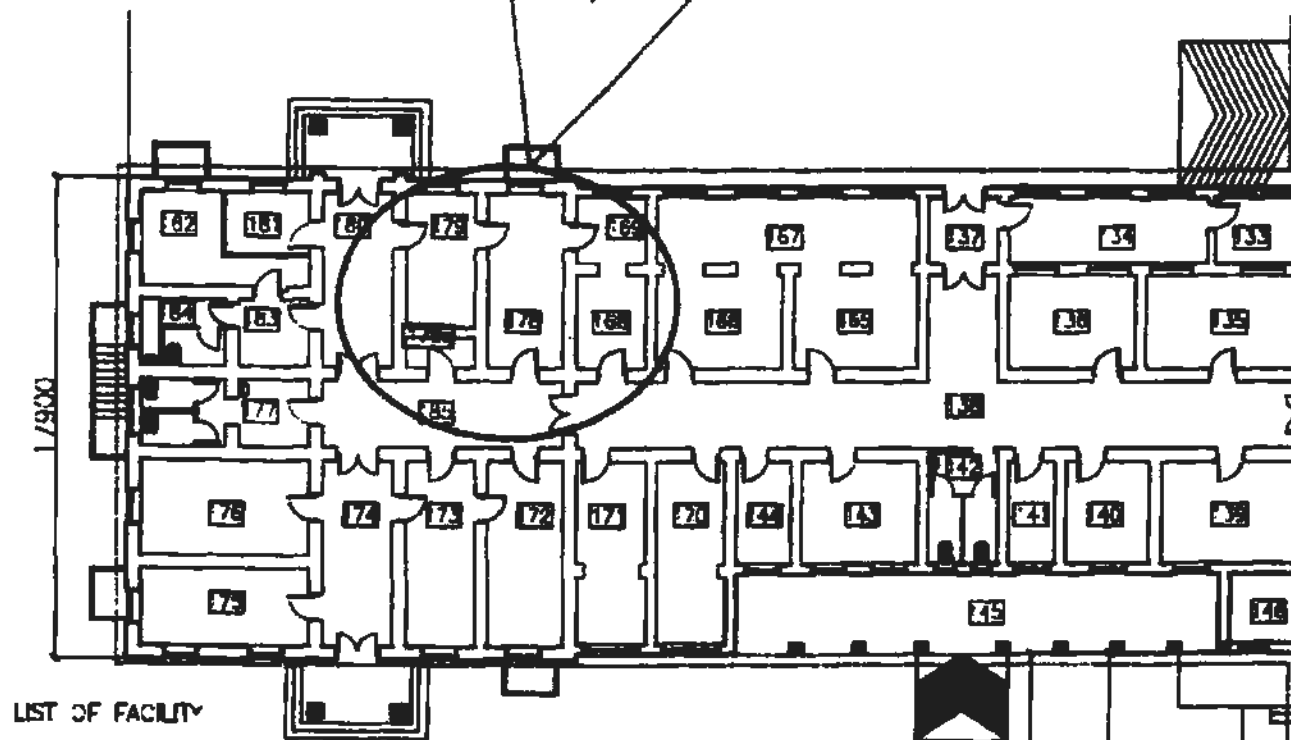
Photo # 11



Photo # 12

Kunduz MSF Hospital:

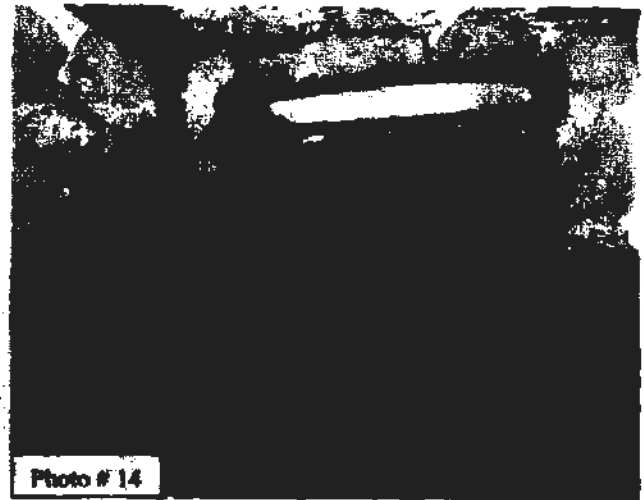
Information. The inside of the first floor building was previously divided by brick masonry partition walls that after the accident all the walls burned and destroyed.



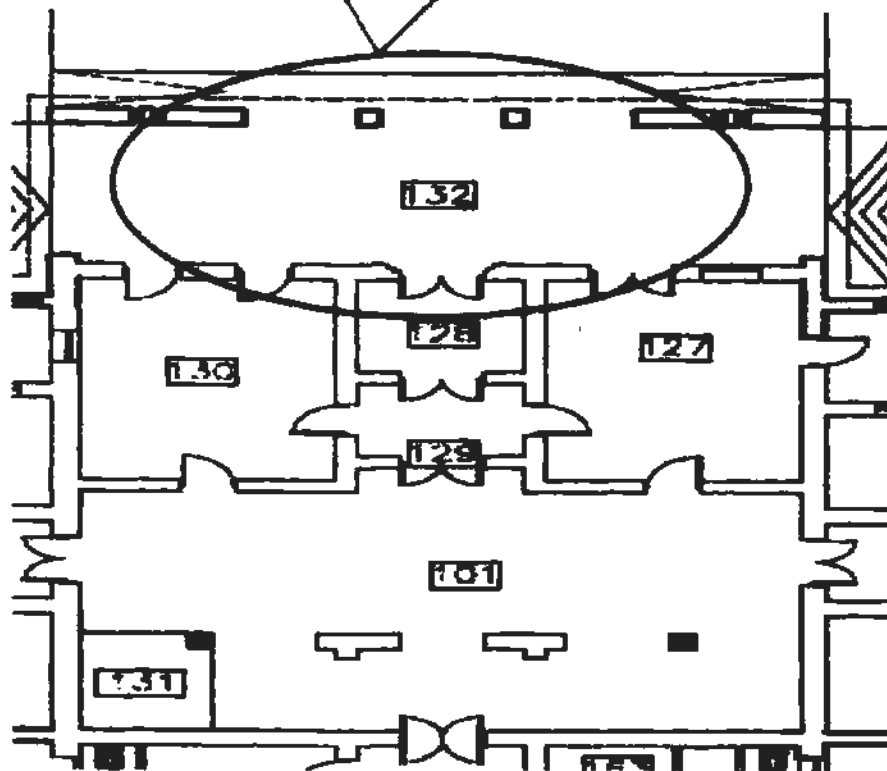
LIST OF FACILITY

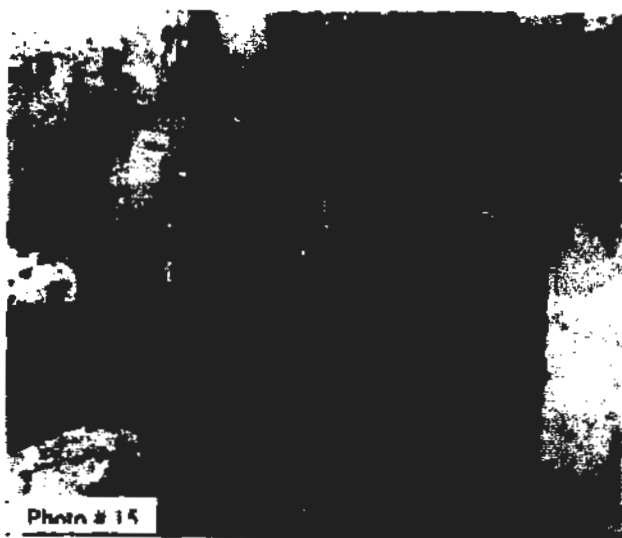
Hospital main building wing A

Wing/ section B

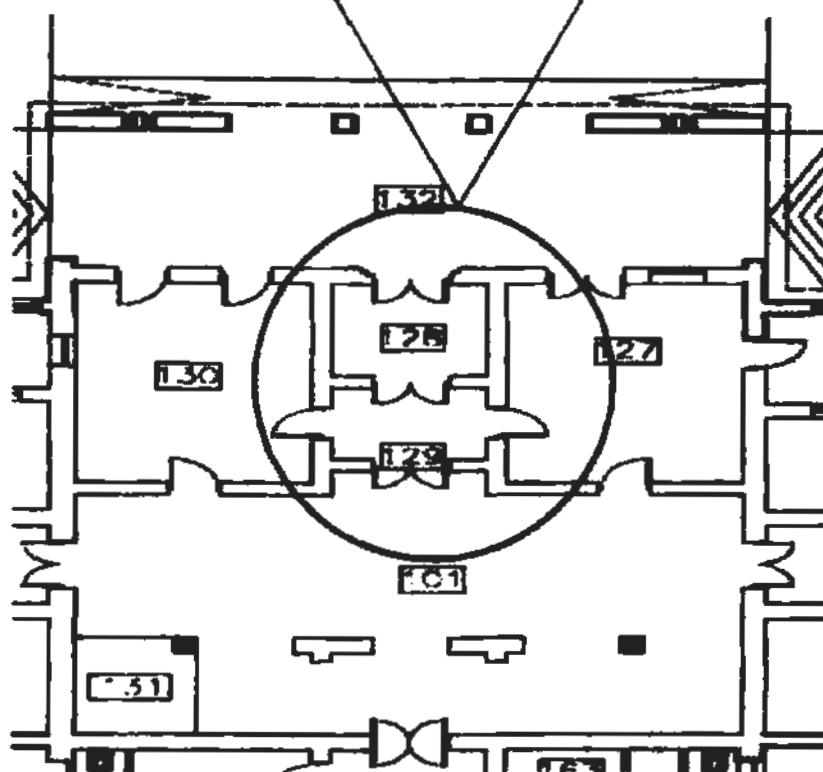


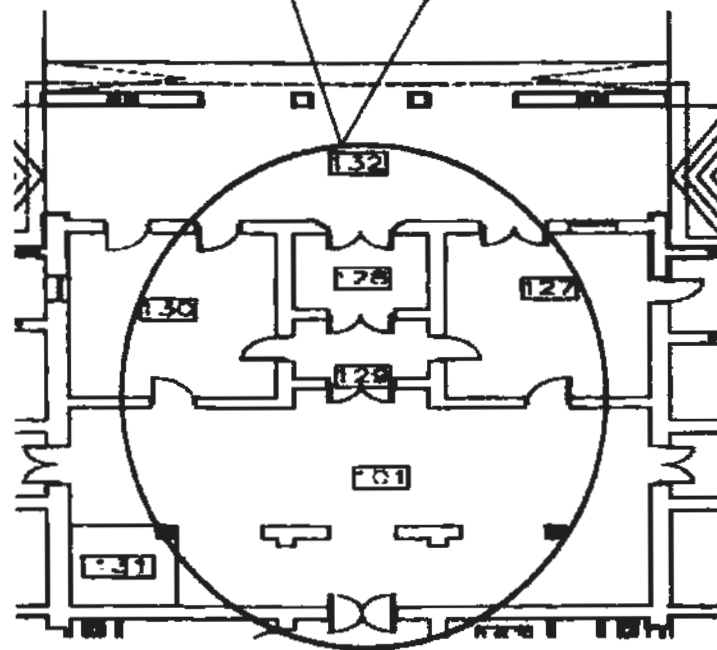
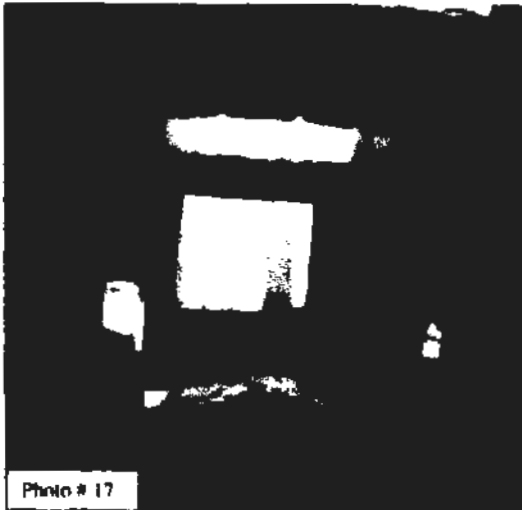
Kunduz MSF Hospital, Main Entrance:
Information: No wall, ceramic tiles floor, roof, ceiling, PVC windows and PVC doors are repairable and operational because all damaged and burned.





Kunduz MSF Hospital:
Information. Brick masonry walls destroyed completely.





Appendix B

Wing/ Section C



Photo # 19

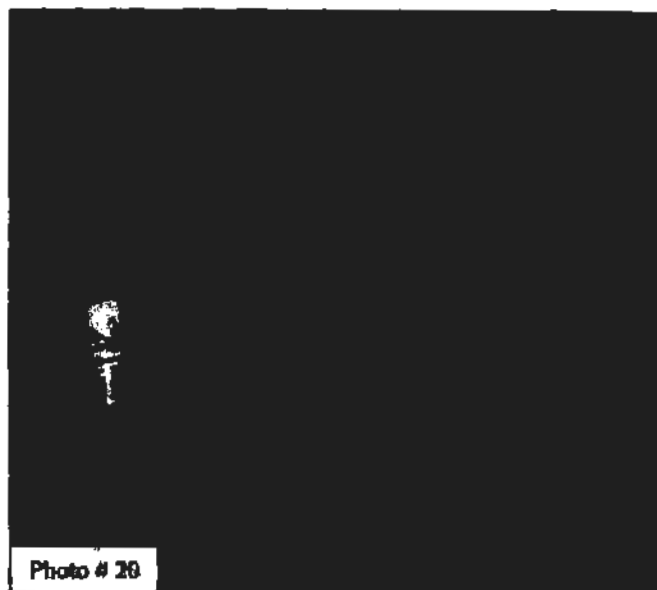
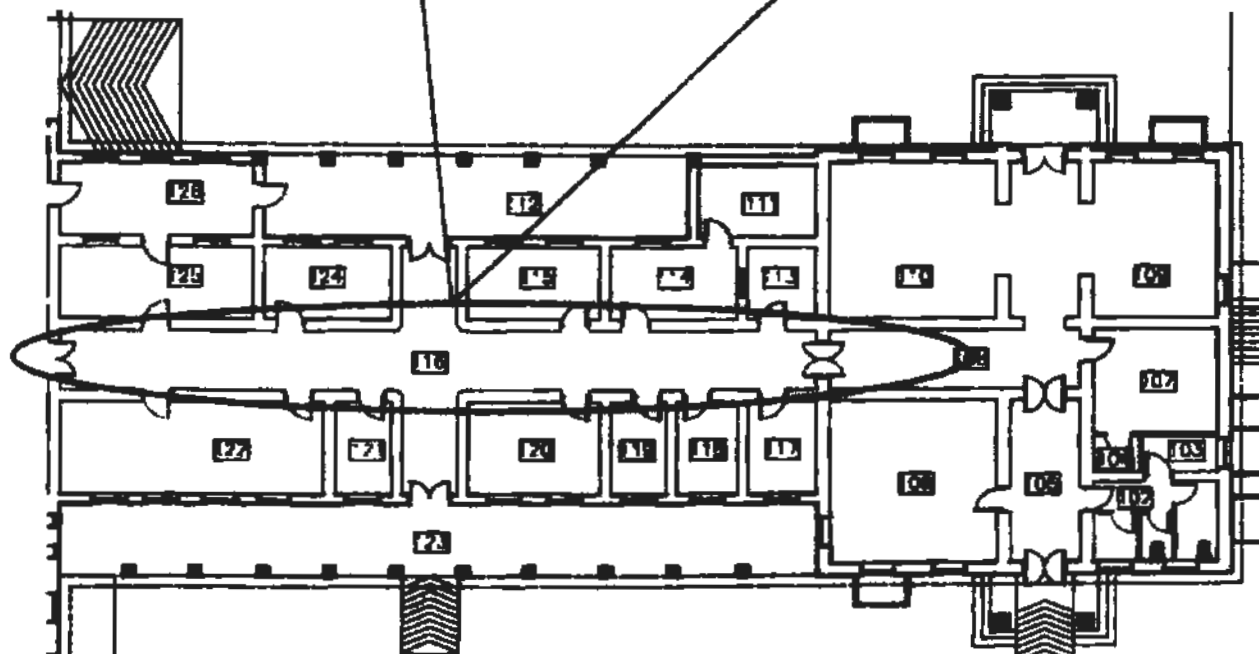


Photo # 20

Kunduz MSF Hospital:

Information The building Section A and C areas are completely burned out and destroyed. All walls, ceramic tile floors, roof, ceiling, PVC windows and PVC doors destroyed and burned.



Hospital main building wing C

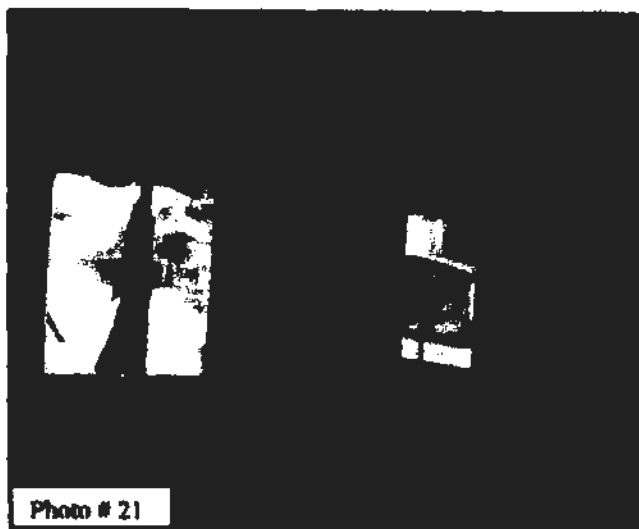


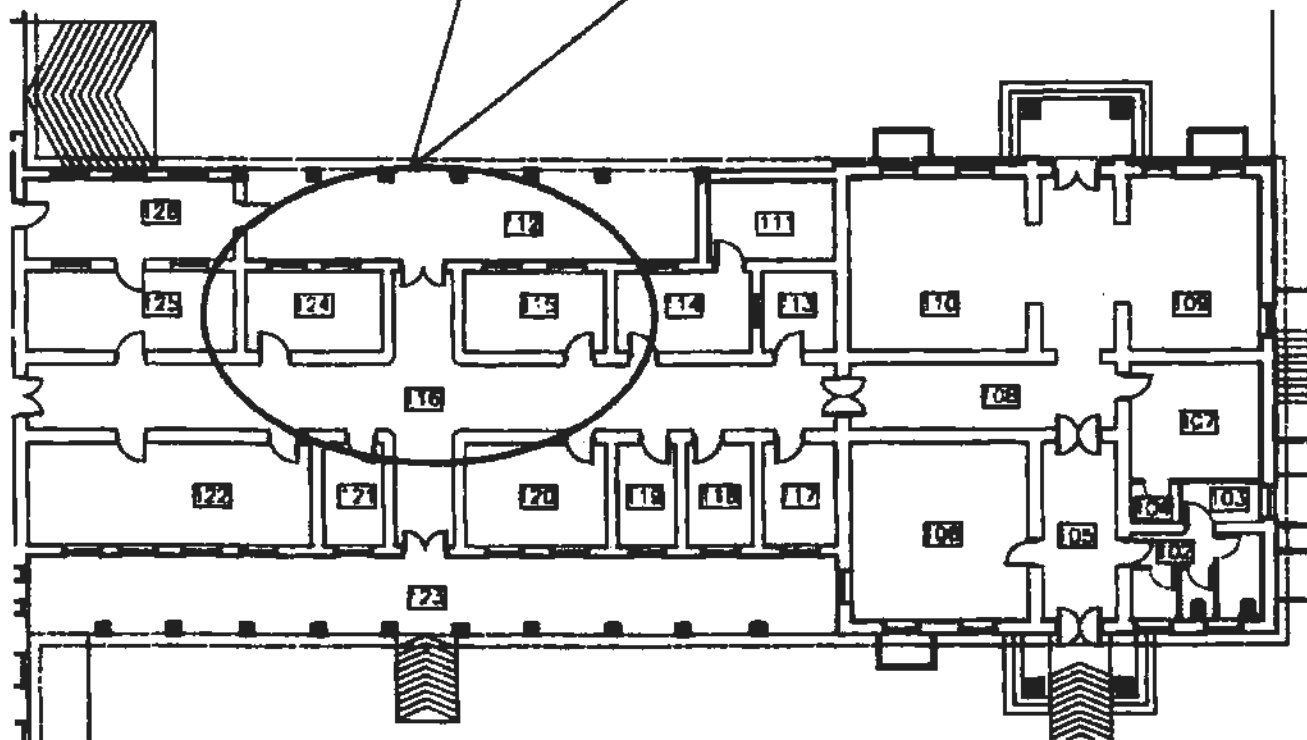
Photo # 21



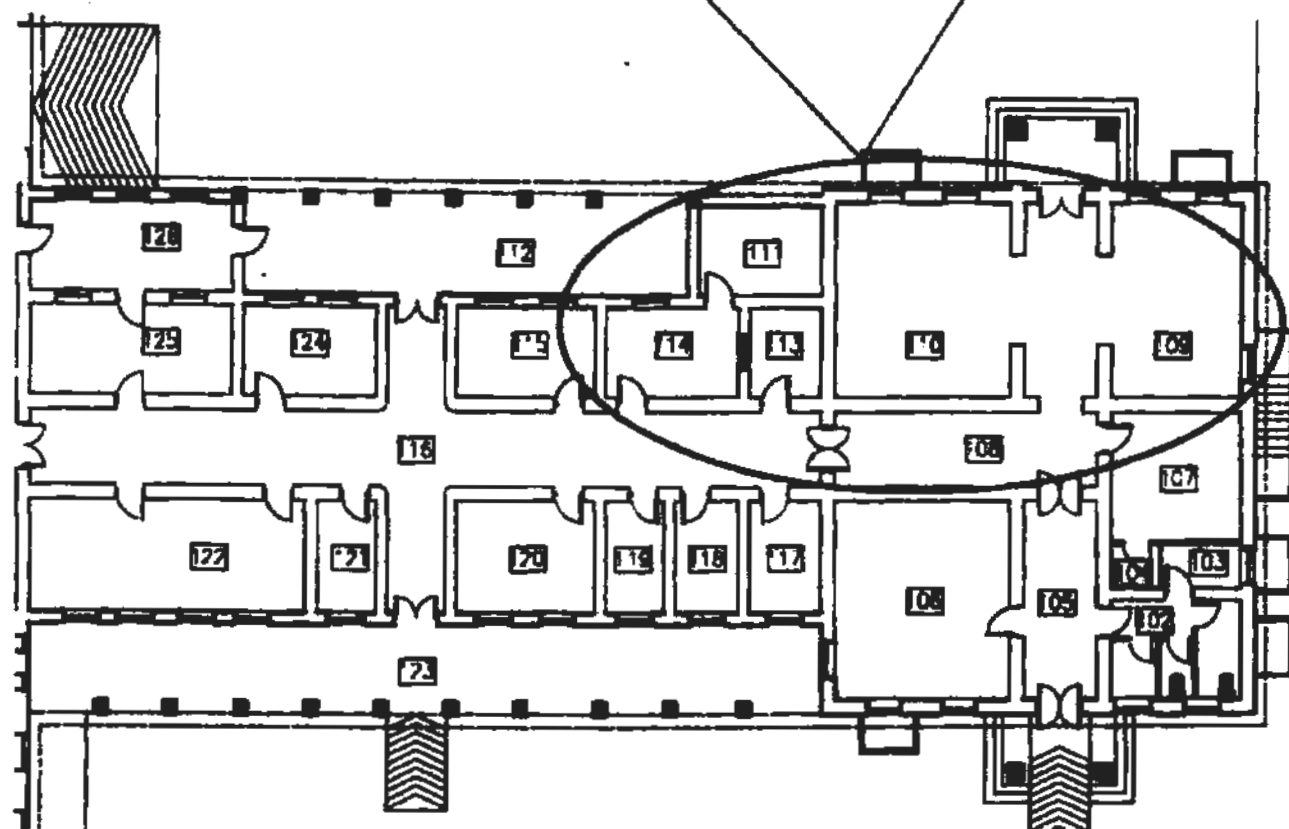
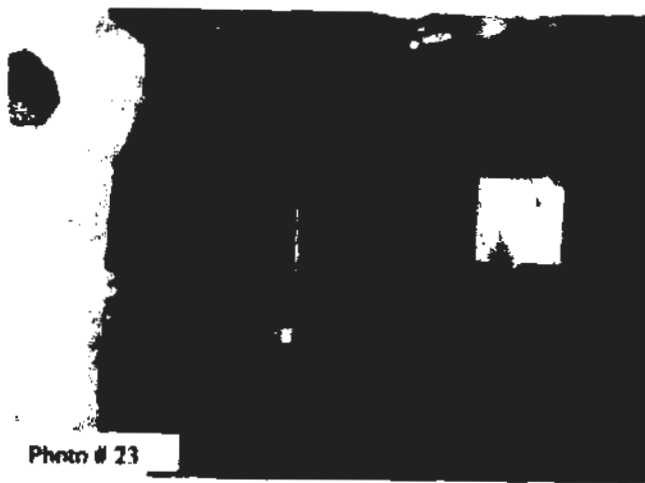
Photo # 22

Kunduz MSF Hospital:

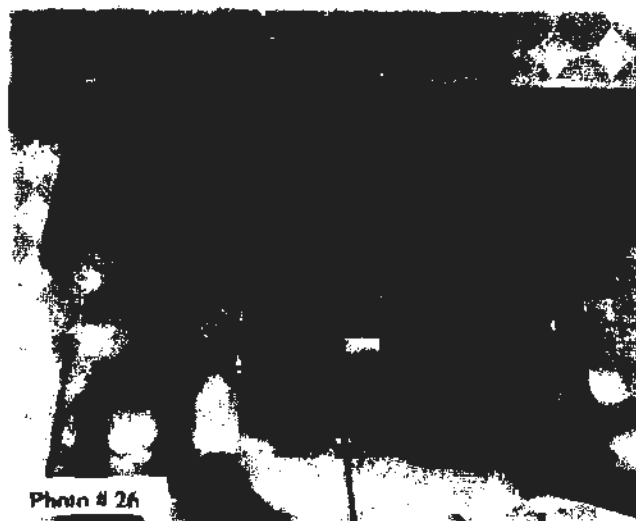
Information: No wall, ceramic tiles floor, roof, ceiling, PVC windows and PVC doors are repairable and operational because all damaged and burned.



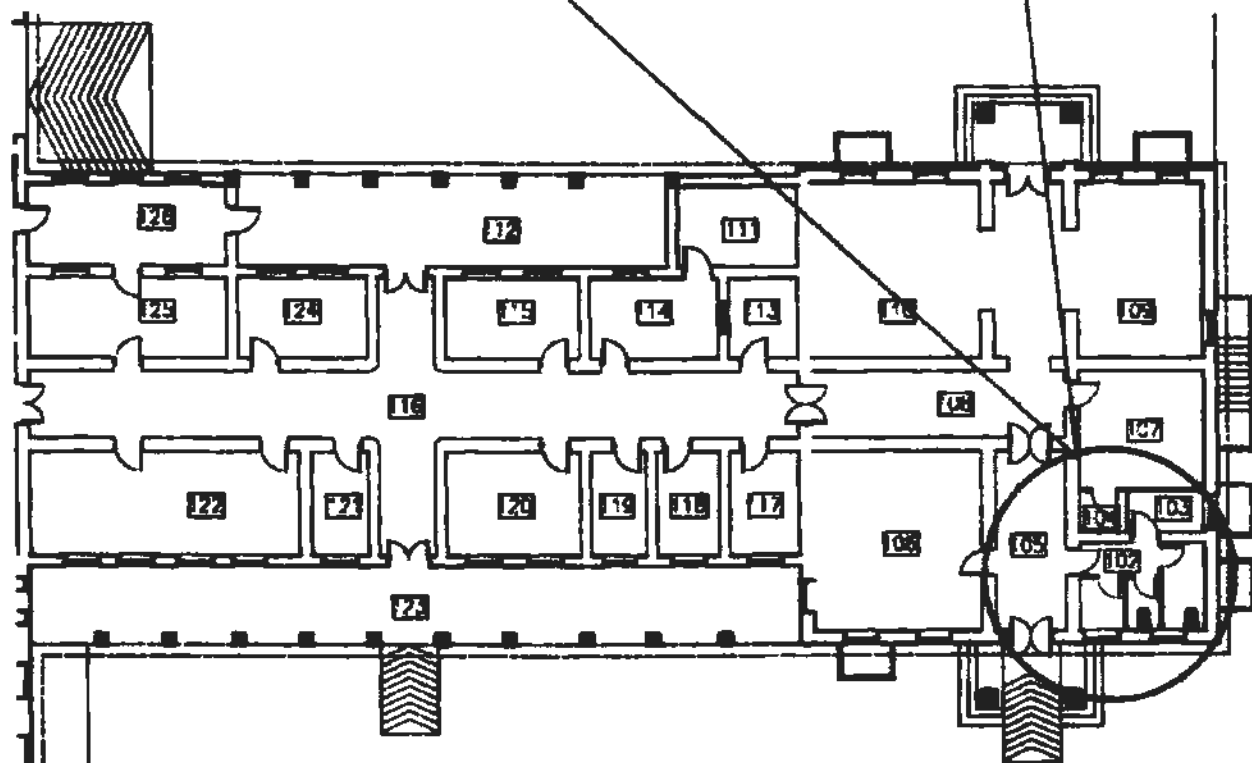
Hospital main building wing C



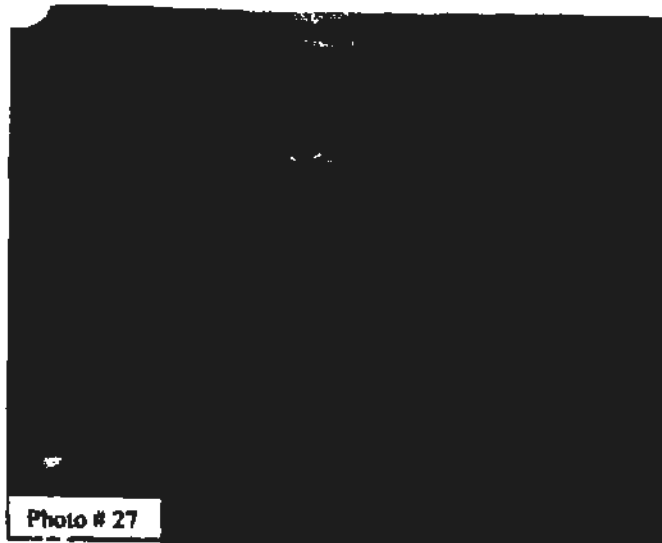
Hospital main building wing C



Kunduz MSF Hospital: PVC windows all bused

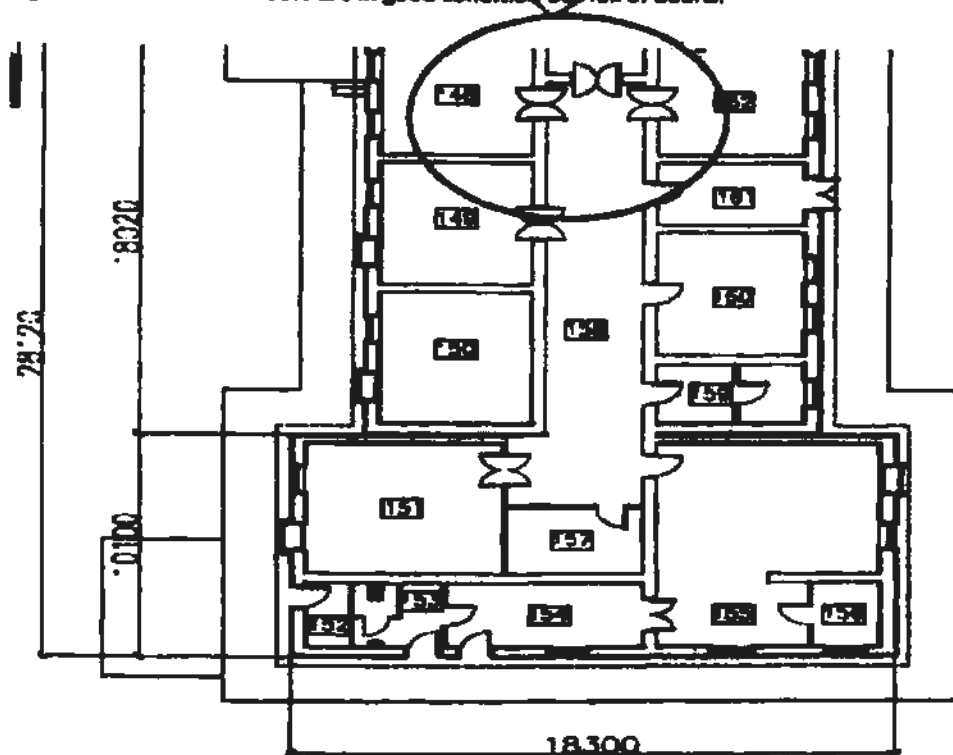


Hospital main building wing C

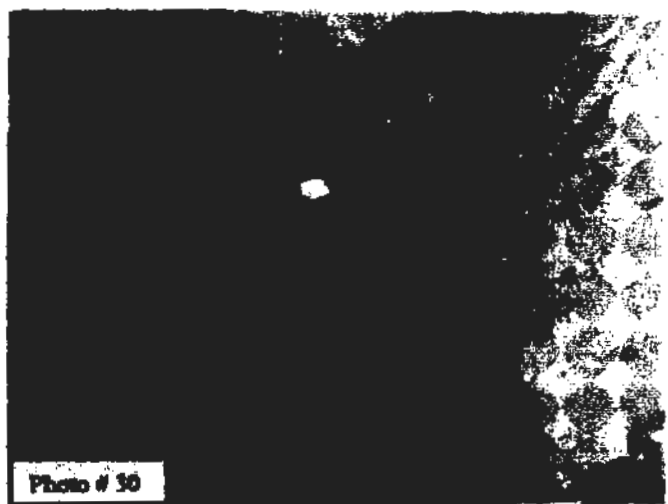
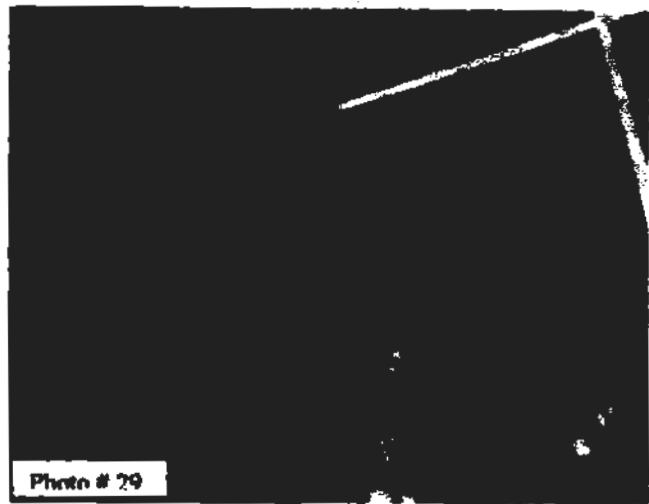


Kunduz MSF Hospital:

First floor wing B area, south side: The room's concrete wall and roof are damaged. Moreover gypsum suspended ceilings damaged and the ceramic floors are in good condition but full of debris.

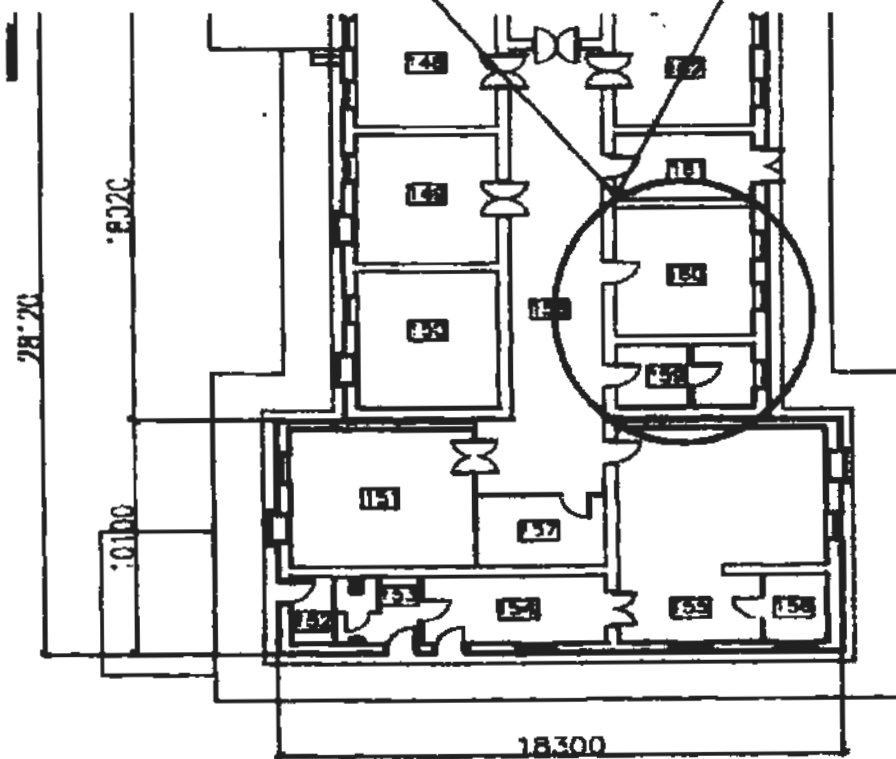


Hospital main building wing B



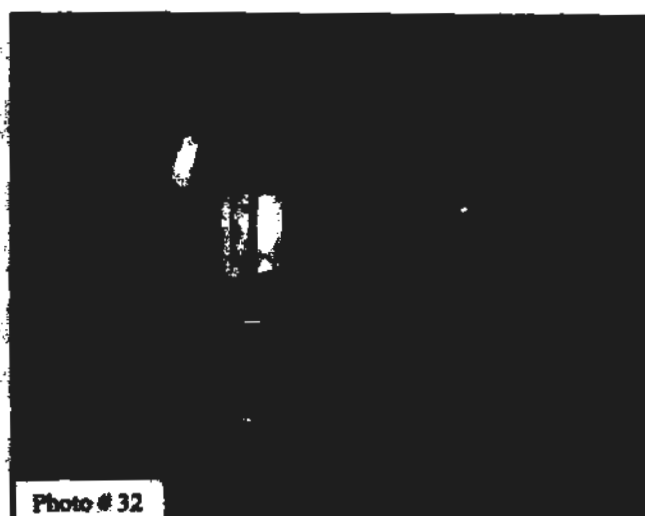
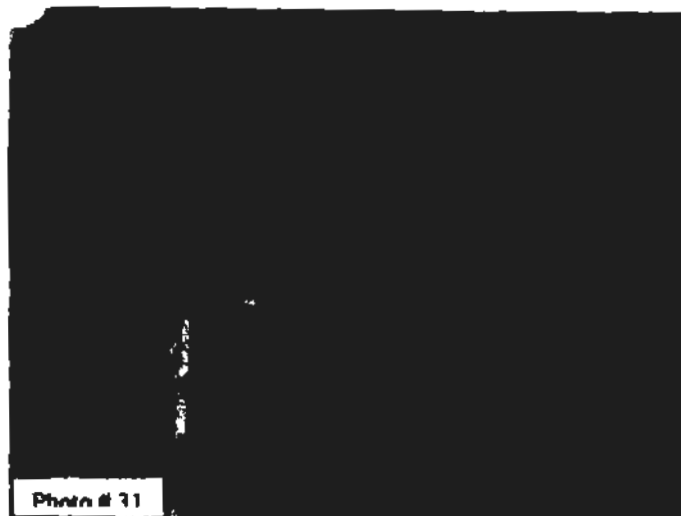
Kunduz MSF Hospital:

First floor wing B area, south side: the concrete roof and walls damaged by rockets.



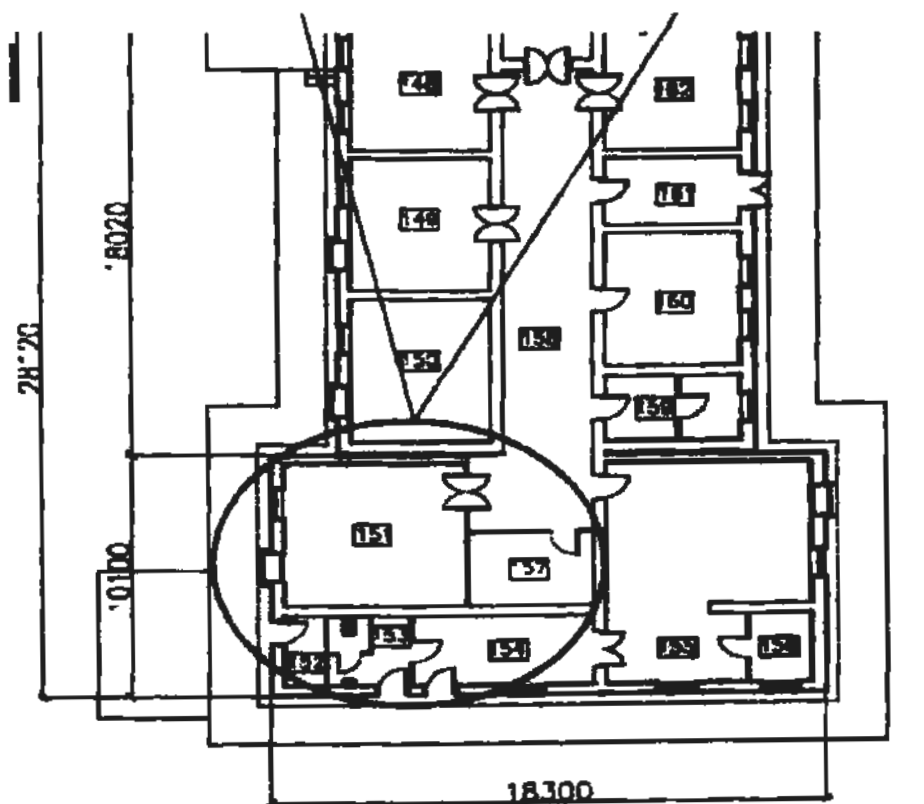
Hospital main building wing B

Appendix B



Kunduz MSF Hospital:

First floor wing B area, south side: Brick masonry walls damaged.



Hospital main building wing B

Appendix B

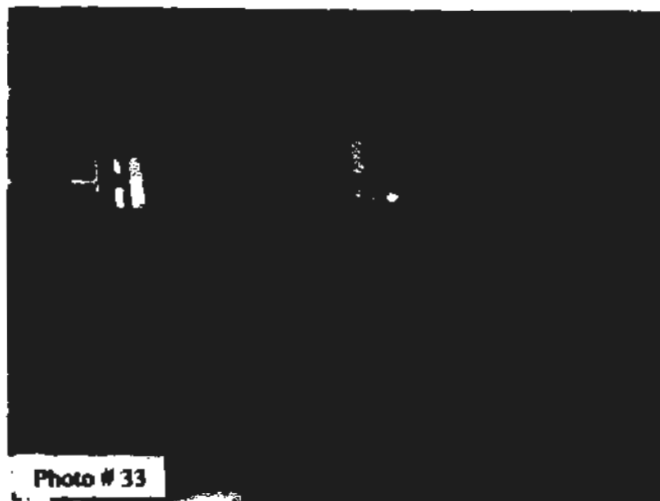


Photo # 33

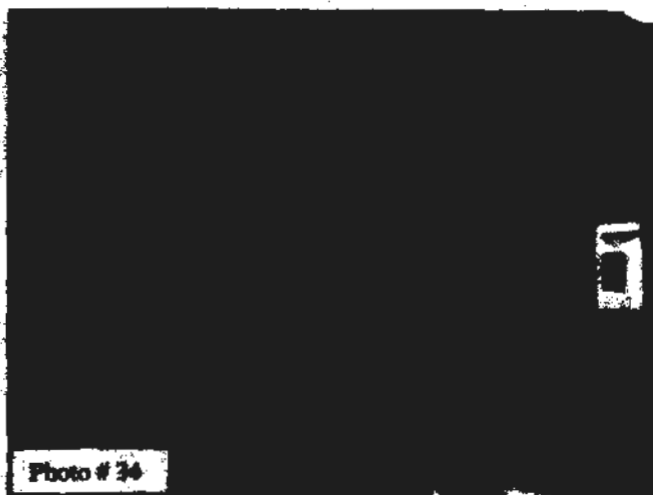
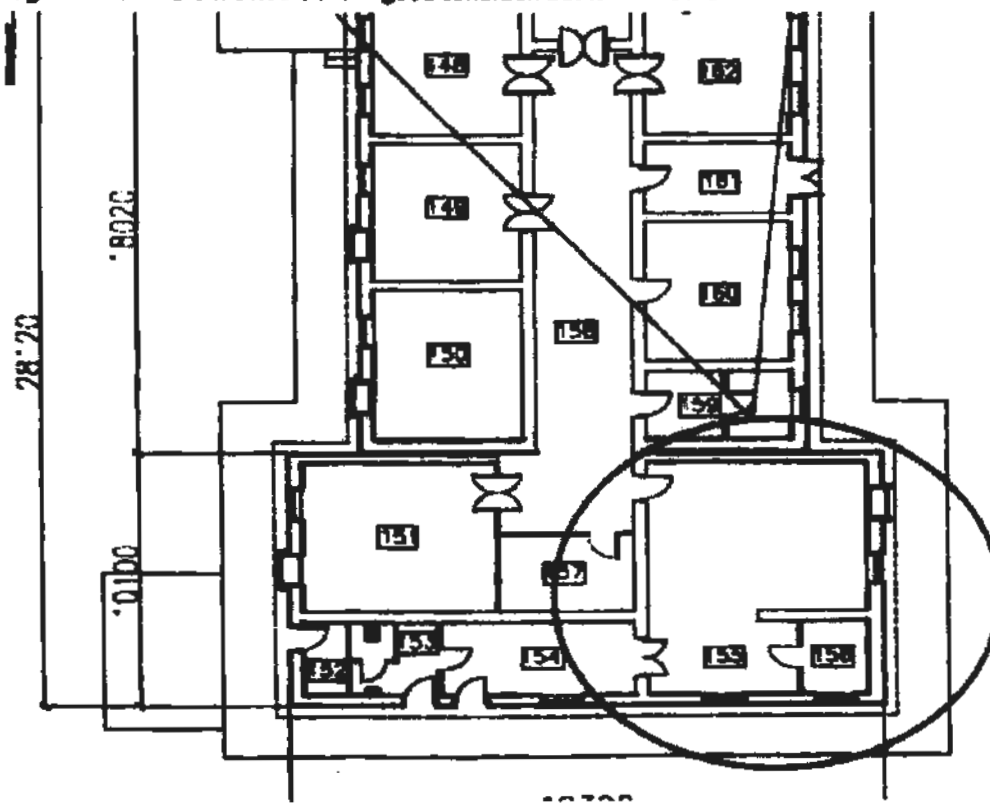


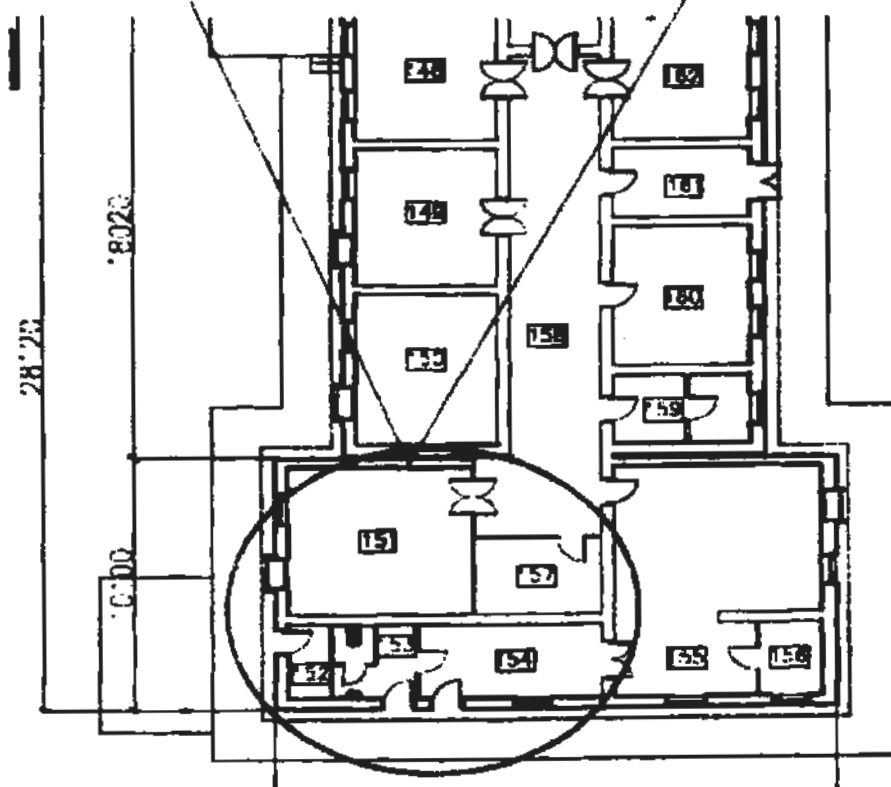
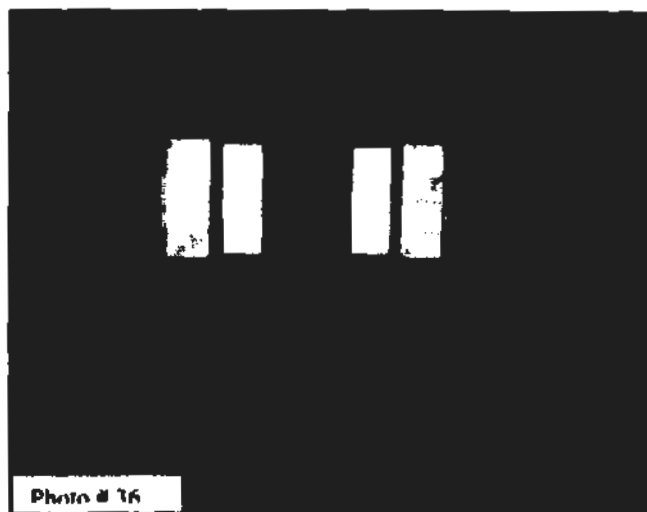
Photo # 34

Kunduz MSF Hospital:

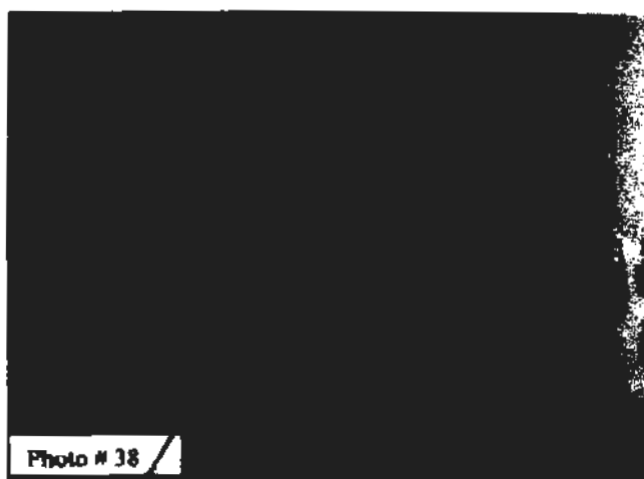
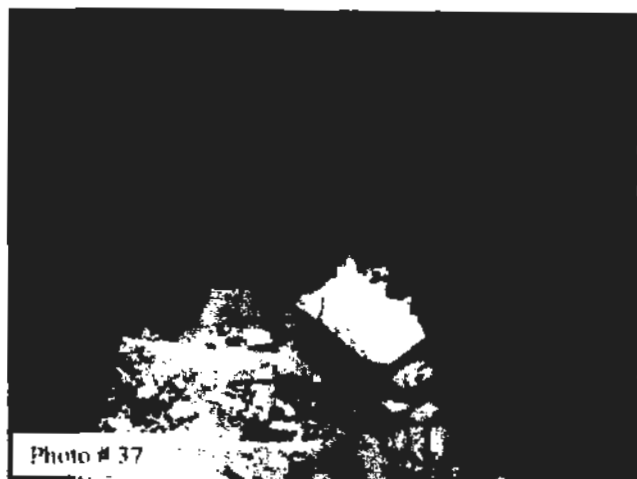
First floor wing B area, south side: The room's concrete wall and roof are damaged. Moreover gypsum suspended ceilings damaged and the ceramic floors are in good condition but full of debris.



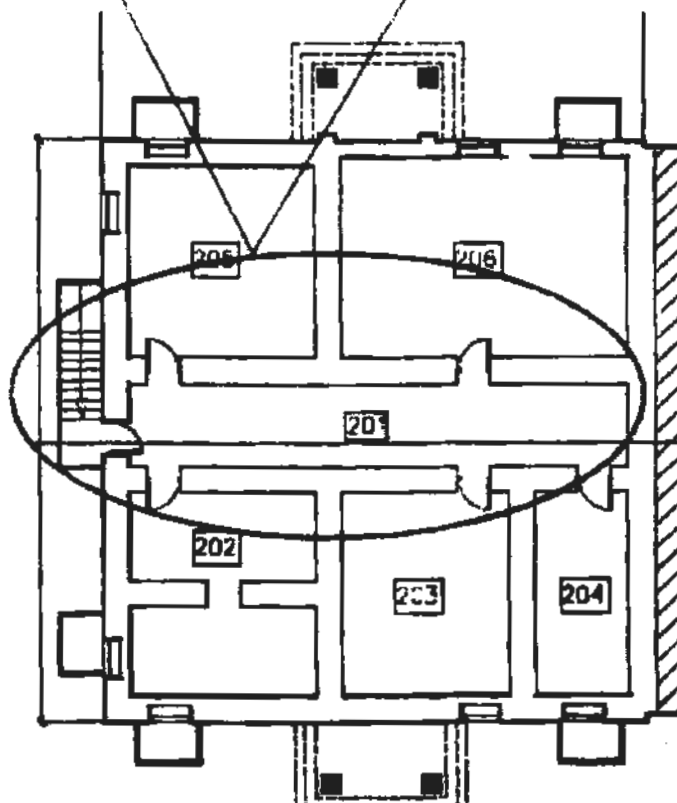
Hospital main building wing B



Hospital main building wing B



Kunduz MSF Hospital, East Basement: The concrete stair of the east basement is partially damaged.



Hospital main building East Basement

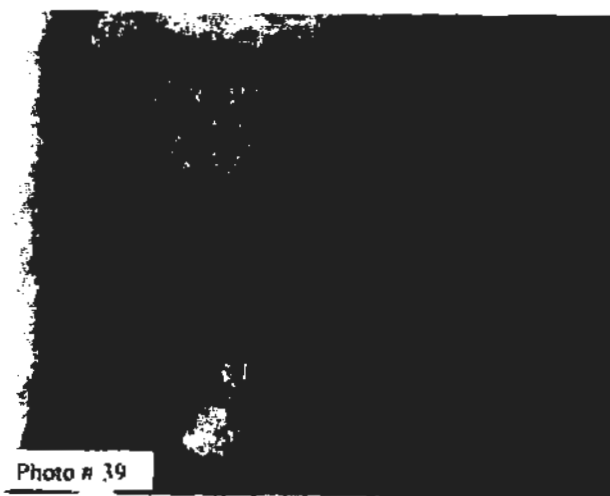
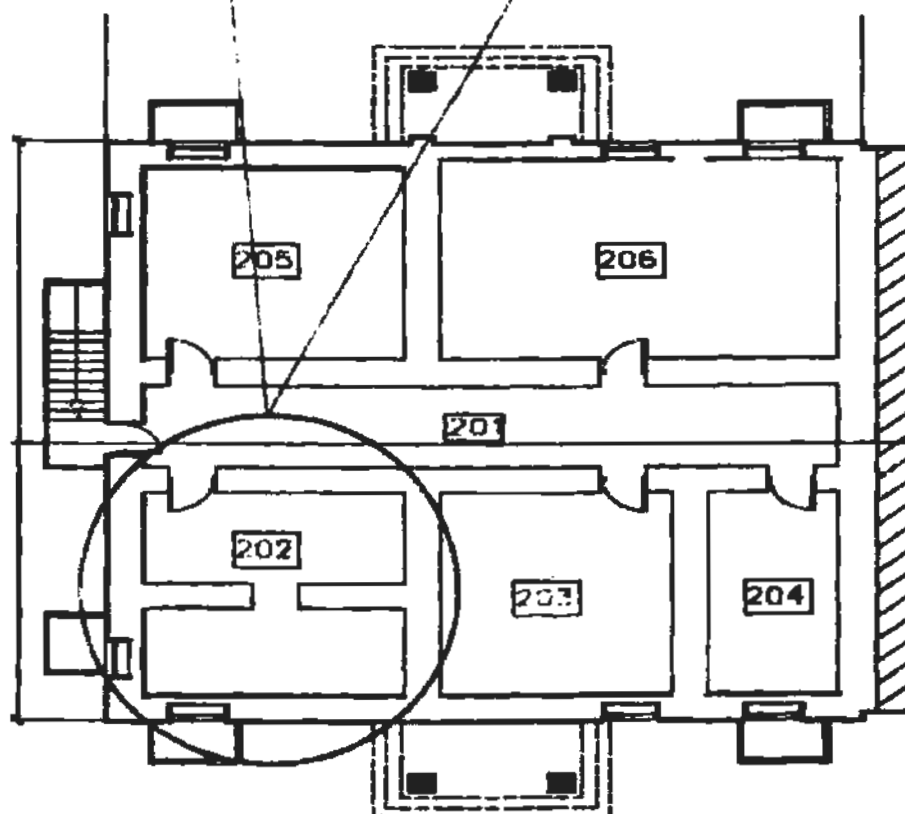


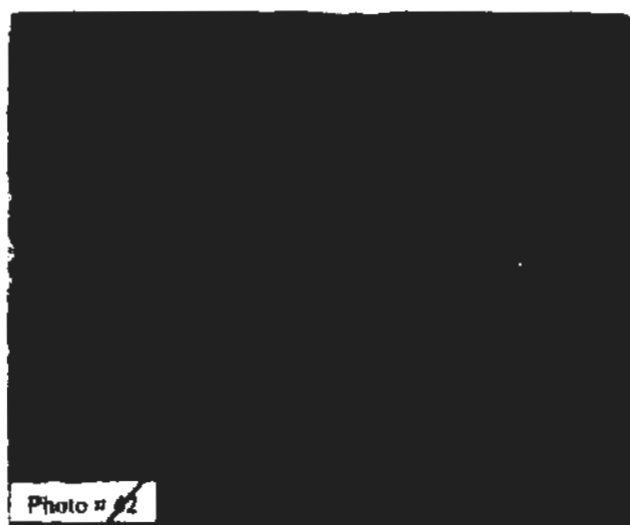
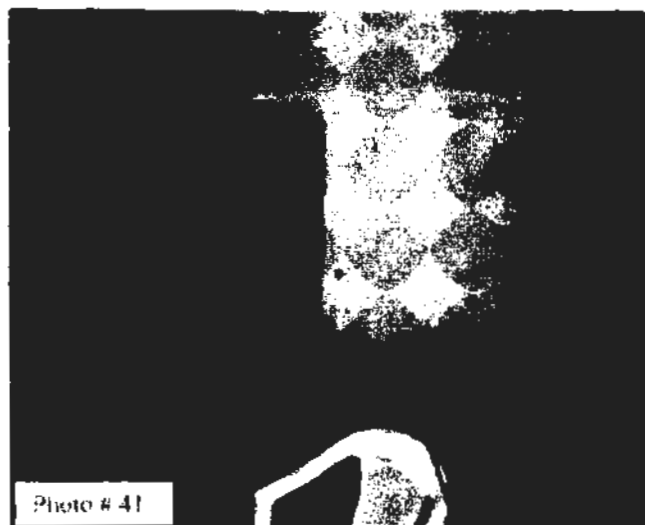
Photo # 39



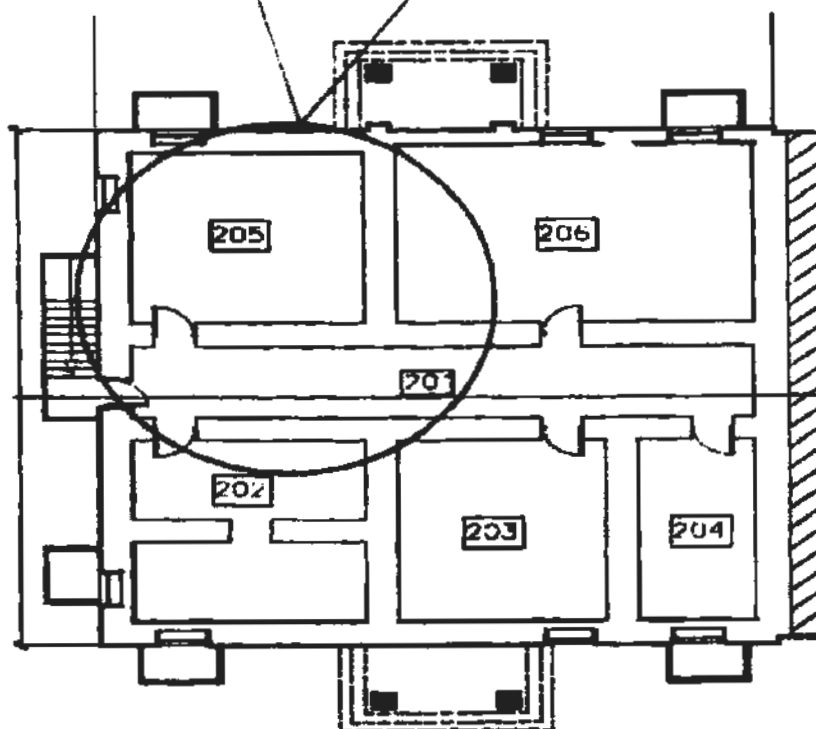
Photo # 40

Kunduz MSF Hospital, East Basement: No door was installed in the basement doors and only PVC windows installed without glasses.





Kunduz MSF Hospital, East Basement: The plaster and paint of the east basement partially damaged and is repairable.



Hospital main building East Basement

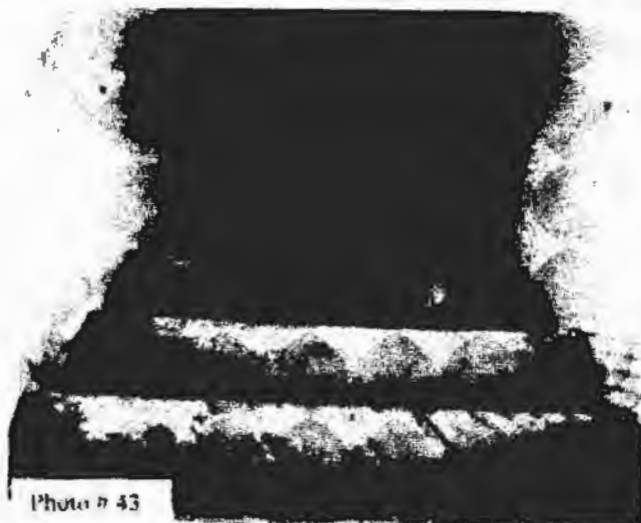
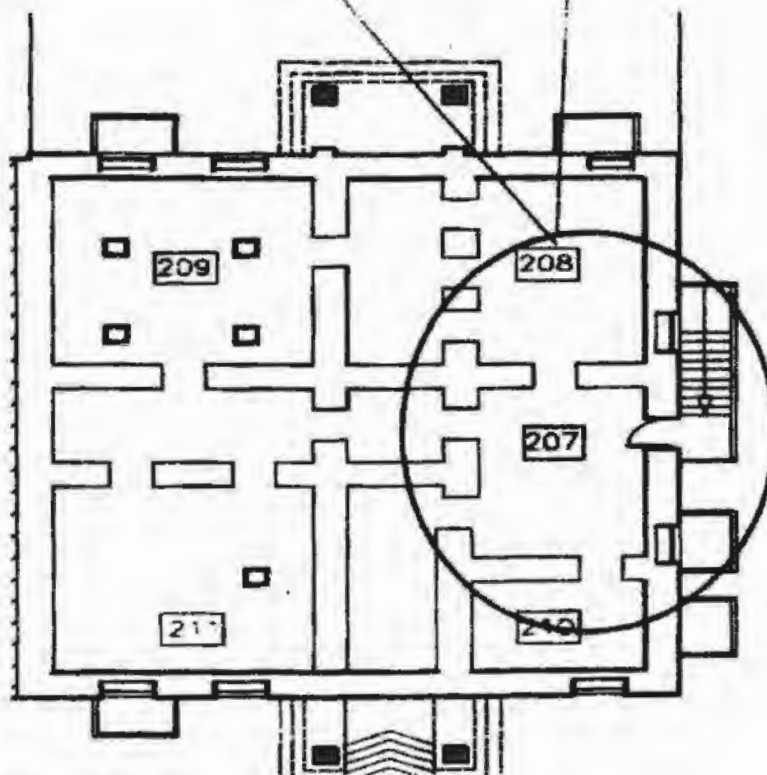


Photo # 43



Photo # 44

Kunduz MSF Hospital, West Basement: No door was installed in the basement doors and only PVC windows installed.



Hospital main building West Basement



Photo # 4C



Photo # 4D



Photo # 4E



Photo # 4F

Kunduz MSF Hospital, West Basement: The paint of the east basement partially damaged and is repairable. Additionally the roof of the east basement was damaged by rocket.



Photo # 50

Photo # 50

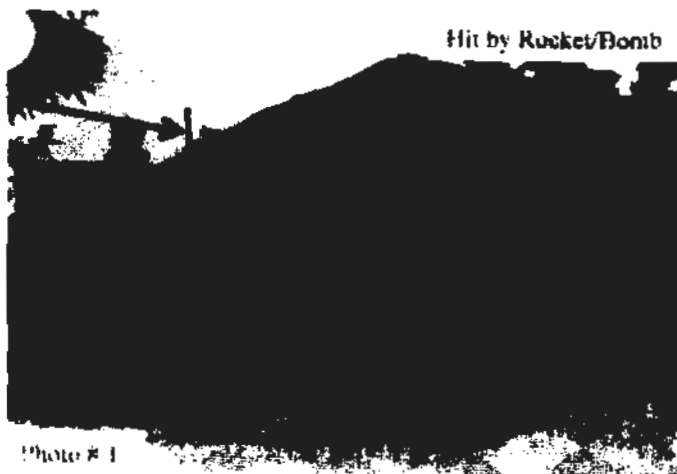
Kunduz MSF Hospital, Manholes:

The manholes related to the building are in good condition and manholes covers are partially damaged.

APPENDIX B-I

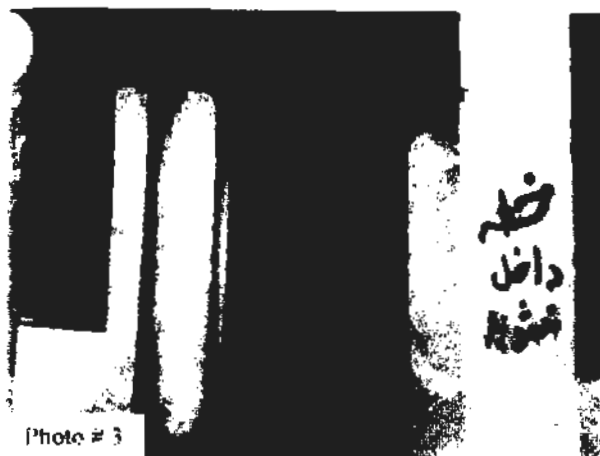
Structure

Assessment photography



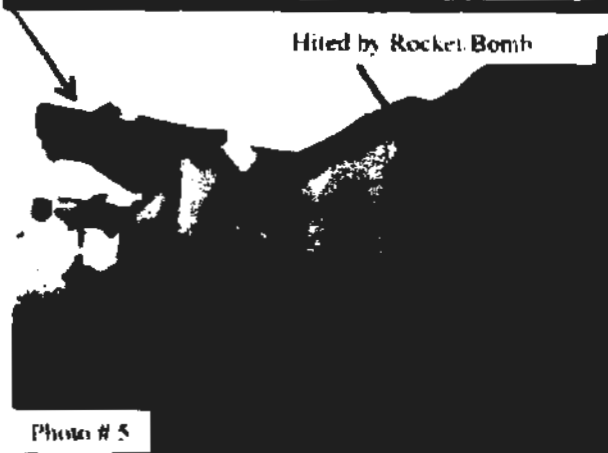
Location: MSF Hospital, Wing C (Sheet# 103), North side

Report: East section constructed by brick masonry with wooden beams and roof sheeting. Apparently, one rocket/ bomb hit at the North West corner, all roof sheets, doors and windows have been burned.



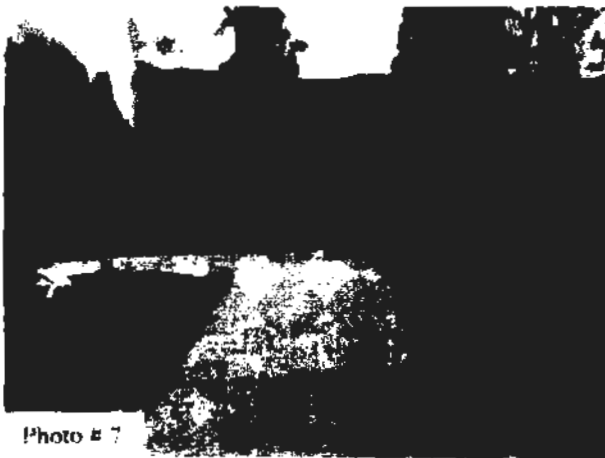
Location: MSF Hospital, Wing C (Sheet# 103), North side view

Report: East section constructed by brick masonry with wooden beams and roof sheeting. Apparently, one rocket/ bomb hit at the North West corner, all roof sheets, doors and windows have been burned.



Location: MSF Hospital, Wing A, B&C (Sheet# 103), from North side view

Report: Report: another rocket/ bomb hit at the middle of this section, all roof sheets' beams, doors and windows have been burned. Roof sheets are fall down.



Location: MSF Hospital, Wing C (Sheet# 103), North side view with Existing facilities.

Report: another rocket/ bomb hit at the middle of this section, all roof sheets' beams, doors and windows have been burned. As well as, boundary wall's iron sheets with entrance gate including the Gard rooms which are located onto the North side of hospital need repairing.



Photo # 9

Location: Section A (Sheet# 103), North east corner

Report: Due to the fire, all roof's wooden beams, doors, windows, existing equipment has been burned. Most part of the roof sheeting is collapse and other parts are over hang.



Photo # 10

Location: Section A (Sheet # 103), MSF Hospital, East side.

Report: Due to the fire, all roof's wooden beams, doors, windows, existing equipment has been burned. Most part of the roof sheeting is collapse and other

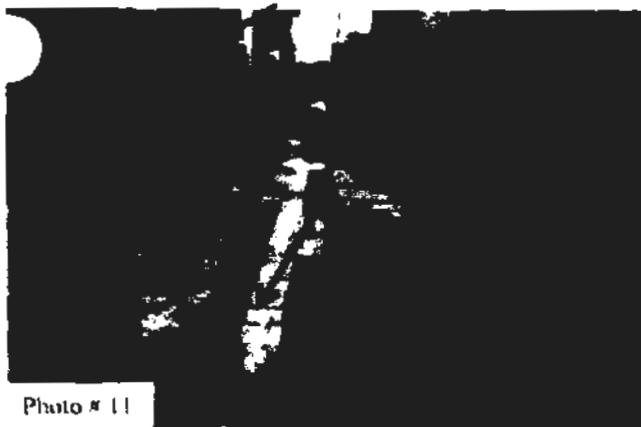


Photo # 11

Location: Section A (Sheet# 103), Sidewalks, existing facilities (connexes).

Report: Due to the Bombing, the existing facilities which are located next to the hospital including the side walk on side are damaged as well.

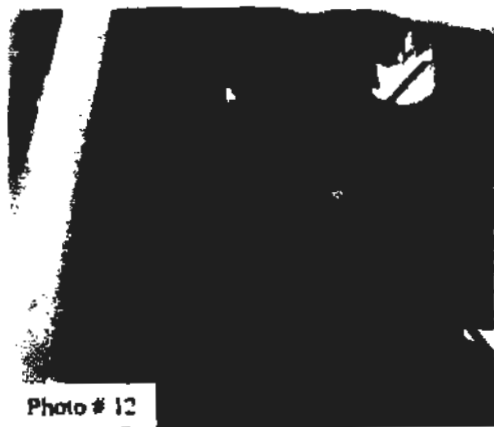


Photo # 12

Location: Hospital, Room#107, Sheet#A-103

Report: Another rocket/bomb sign, it caused damaged and all existing equipment plus the roof beams, doors windows has been burned due to the fire.



Photo #13

Location: East view/Elevation, Section B (Sheet# 103)
Report: Due to explosion all roof sheets with doors and windows has been damaged needs repairing. There are some damaged parts and cracks visible onto the walls on east side exterior walls.



Photo #14

Location: East view/Elevation, Section B (Sheet# 103)
Report: Due to explosion all roof sheets with doors and windows has been damaged needs repairing. There are some damaged parts and cracks visible onto the walls on east side exterior walls.



Photo #15

Location: East view/Elevation, Section B (Sheet# 103)
Report: Due to explosion all roof sheets with doors and windows has been damaged needs repairing. There are some damaged parts and cracks visible onto the walls on east side exterior walls.



Photo #16

Location: East view/Elevation, Section B (Sheet# 103)
Report: Due to explosion all roof sheets with doors and windows has been damaged needs repairing. There are some damaged parts and cracks visible onto the walls on east side exterior walls.



Photo #17

Location: South view/Elev., Wing C (Sheet# 103)
 Report: Due to explosion and fire all roof sheets with wooden beams, doors and windows has been damaged. There are some damaged parts and cracks visible onto the walls on South side exterior walls. Physically, the perimeter wall stable.



Photo #18

Location: South view/Elev., Wing C (Sheet# 103)
 Report: Due to explosion and fire all roof sheets with doors and windows has been damaged. There are some damaged parts and cracks visible onto the walls on South side exterior walls. Physically, the perimeter wall stable.



Photo #19

Location: South view/Elev., Wing C (Sheet# 103)
 Report: Due to explosion and fire all roof sheets with doors and windows has been damaged. There are some damaged parts and cracks visible onto the walls on South side exterior walls. Physically; the perimeter wall of this side seems stable.



Photo #20

Location: South view/Elev., Wing C (Sheet# 103)
 Report: Due to explosion and fire all roof sheets with doors and windows has been damaged. There are some damaged parts and cracks visible onto the walls on South side exterior walls. Physically; the perimeter wall of this side seems stable.



Photo #21

Location: South view/Elev., Wing B (Sheet# 103)
Report: Due to explosion all roof sheets with doors and windows have been damaged. Physically; the perimeter wall of this side seems stable.



Photo #22

Location: South view/Elev., Wing B (Sheet# 103)
Report: Due to explosion all roof sheets with doors and windows have been damaged. This facility, roof and wall covers has been damaged totally.



Photo #23

Location: South view/Elev., Wing B (Sheet# 103)
Report: Due to explosion all roof sheets with doors and windows have been damaged. Framing system is still repairable.



Photo #24

Location: South view/Elev., Wing B (Sheet# 103)
Report: Due to explosion all roof sheets with doors and windows have been damaged. Framing system is still repairable.



Photo #25

Location: South view/Elev., Wing A (Sheet# 103)
Report: Due to explosion and fire all roof sheets including the wooden beams with doors and windows have been damaged.



Photo #26

Location: South view/Elev., Wing A (Sheet# 103)
Report: Due to explosion and fire all roof sheets including the wooden beams with doors and windows have been damaged.



Photo #27

Location: South view/Elev., Wing A (Sheet# 103)
Report: Due to explosion and fire all roof truss including the roof sheets with doors and windows has been damaged. There are some damaged parts and cracks visible onto the walls on South side exterior walls of this section. There are some damage parts of perimeter wall.



Photo #28

Location: South view/Elev., Wing A (Sheet# 103), entrance side walk.
Report: Entrance side walk has been damaged, as well as the connexes which are located onto the South side of hospital partially damaged and need repairing.



Photo #29

Location: West view/Elev., Wing C (Sheet# 103)
Report: Due to explosion and fire all roof truss including the roof sheets with doors and windows has been damaged. There are some damaged parts and cracks visible onto the walls on West perimeter wall of hospital.

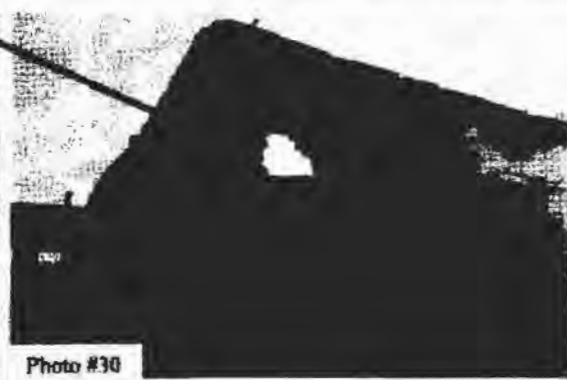


Photo #30

Location: Grid 34
Report: One rocket/ bomb, hit at the North West corner, all roof sheets, doors and windows have been burned.



Photo #31

Location: West view/Elev., Wing C (Sheet# 103)
Basement Stair
Report: Brick masonry stair landing is partially damaged.



Photo #32

Location: West view/Elev., Wing C (Sheet# 103)
Basement Stair
Report: Brick masonry stair landing is partially damaged



Photo #33

Location: West view/Elev., Wing B (Sheet# 103)
Report: Due to explosion and fire all roof truss including the roof sheets, wooden beams, with doors and windows has been damaged and burned. There are some damaged parts and cracks visible onto the walls on West perimeter wall of hospital.

Photo #33 is taken from the West side of the building. The view is from the West side of the building. The view is from the West side of the building. The view is from the West side of the building.

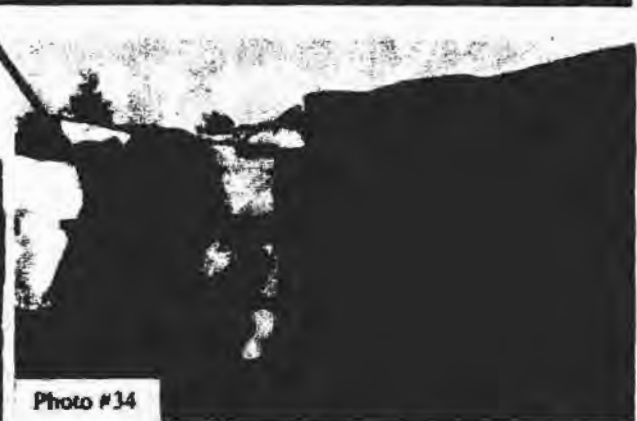


Photo #34

Location: West view/Elev., Wing B (Sheet# 103)
Report: Due to explosion and fire all roof truss including the roof sheets, wooden beams, with doors and windows has been damaged and burned. There are some damaged parts and cracks visible onto the walls on West perimeter wall of hospital.



Photo #35

Location: West view/Elev., Wing B (Sheet# 103)
Report: Due to explosion and fire all roof truss including the roof sheets, wooden beams, with doors and windows has been damaged and burned. There are some damaged parts and cracks visible onto the walls on West perimeter wall of hospital.



Photo #36

Location: West view/Elev., Wing B (Sheet# 103)
Report: Due to explosion and fire all roof truss including the roof sheets, wooden beams, with doors and windows has been damaged and burned. There are some damaged parts and cracks visible onto the walls on West perimeter wall of hospital.

INTERIOR PHOTOS, ROOMS AND WALLS, SECTION B



Photo #37

Location: MSF Hospital, Wing B, North entrance, Room #128, 129, 101

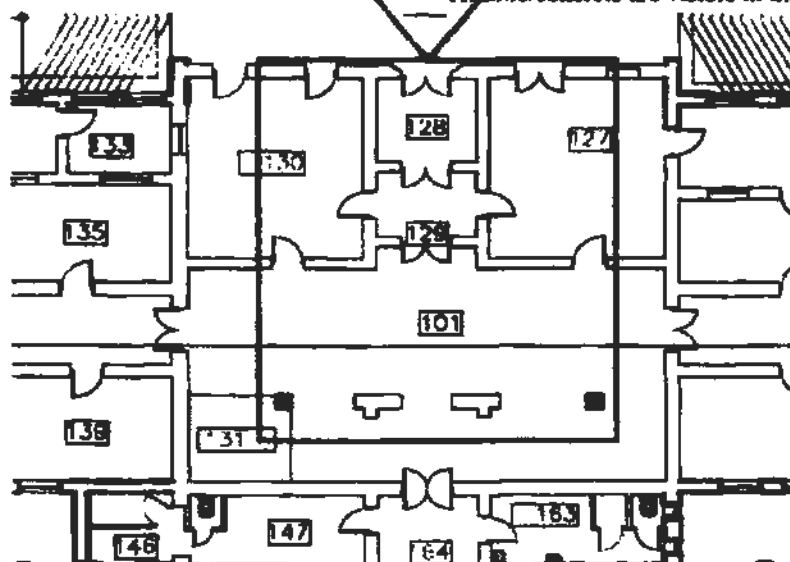
Report: Structurally the building has been constructed with brick masonry and wooden beams with roof sheeting. Fall ceiling, wall plaster, floor ceramic/concrete are visible in this wing.



Photo #38

Location: MSF Hospital, Wing B, North entrance, Room #128, 129, 101

Report: Structurally the building has been constructed with brick masonry and wooden beams with roof sheeting. Fall ceiling, wall plaster, floor ceramic/concrete are visible in this wing.



Hint: MSF hospital building has been sketched in accordance to the site. The plan has been divided to three parts (Wing A, Wing B and Wing C) each wing has been inspected and reported separately. The most damages occurred on section A and C which are totally destroyed; wing B is partially damaged. Even though, wing B shouted by rocket/bomb as well but this part structurally constructed differently forms the two other parts (wing A & wing C). Wing B has been made of concrete frame and slab with brick masonry walls. For more info, refer to floor plan sketch (Sheet# A-102)



Photo #39

Location: MSF Hospital, Wing B, Room #148
Report: Due to the rocket/ bomb impact the exterior wall has been damaged.

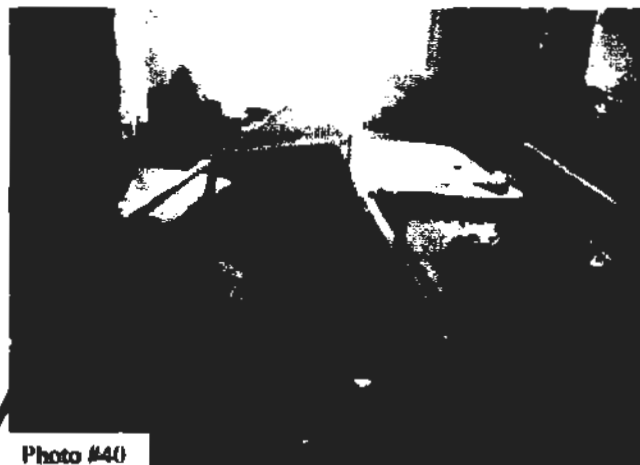
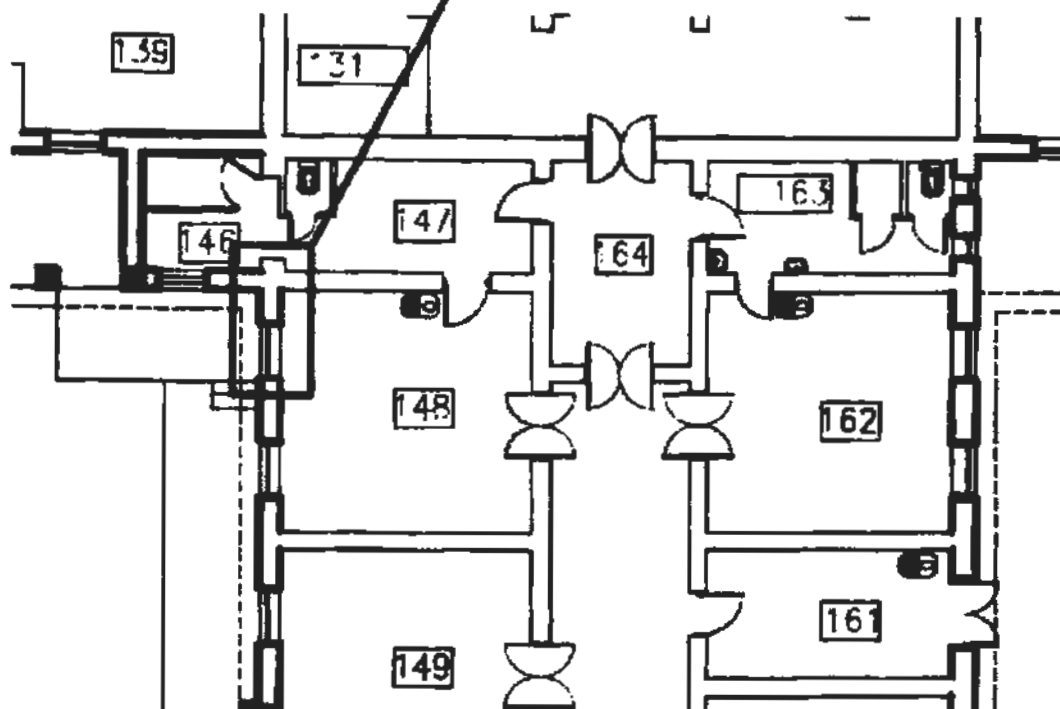


Photo #40

Location: MSF Hospital, Wing B, Room #148
Report: Due to the rocket/ bomb impact the exterior wall has been damaged.



Location: MSF Hospital, Wing B, Room #148
Report: Due to the rocket/ bomb impact the exterior wall has been damaged.



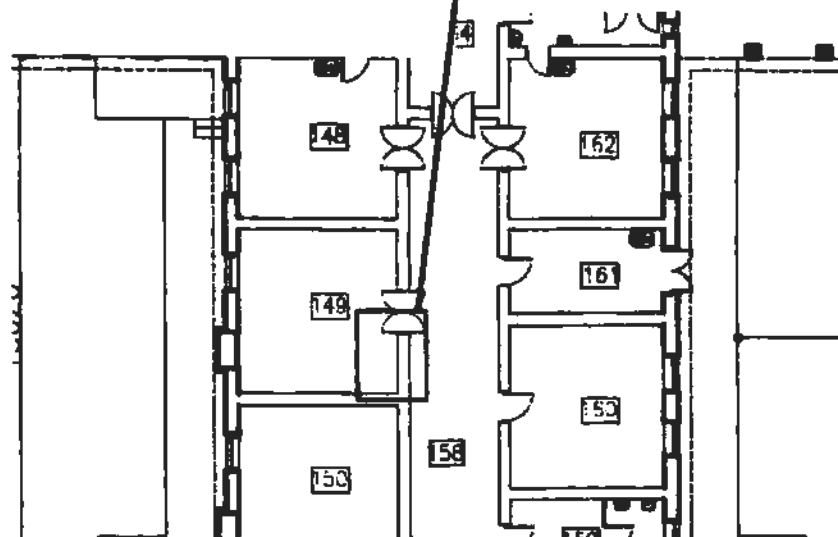
Photo #41

Location: MSF Hospital, Wing B, Room #149
Report: Due to the rocket/ bomb impact the roof slab and interior wall has been damaged.



Photo #42

Location: MSF Hospital, Wing B, Room #149
Report: Due to the rocket/ bomb impact the roof slab and interior wall has been damaged. There is some debris and stuff inside the room.



Location: MSF Hospital, Wing B, Room #149
Report: Due to the rocket/ bomb impact the roof slab and interior wall has been damaged.



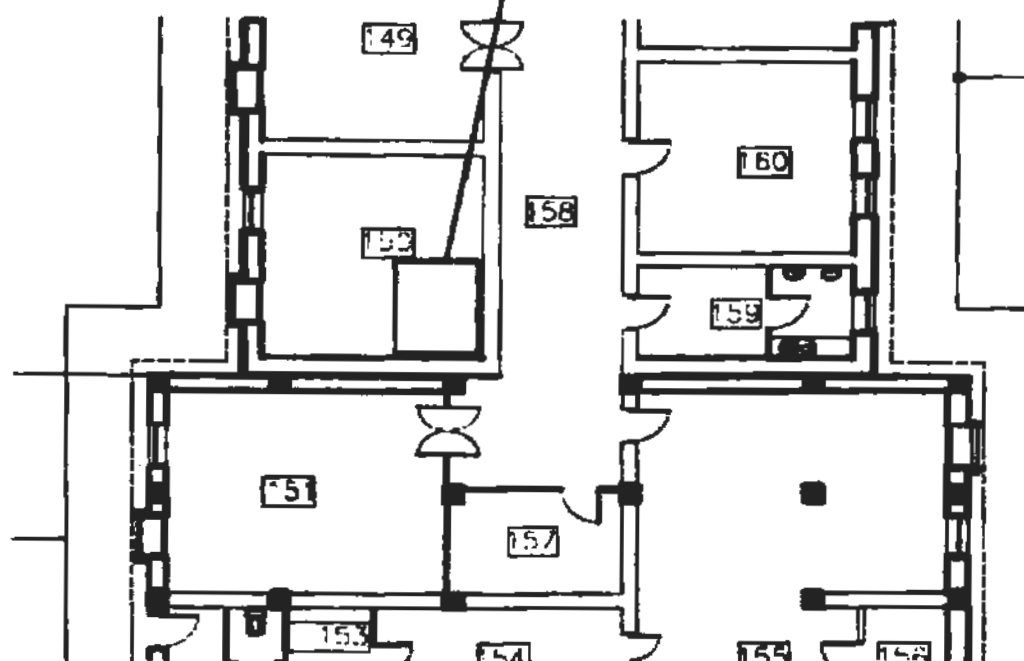
Photo #43

Location: MSF Hospital, Wing B, Room #150
Report: Due to the rocket/ bomb impact the roof slab and floor has been damaged.



Photo #44

Location: MSF Hospital, Wing B, Room #150
Report: Due to the rocket/ bomb impact the roof slab and floor has been damaged.



Location: MSF Hospital, Wing B, Room #150
Report: Due to the rocket/ bomb impact the roof slab and floor has been damaged.



Photo #45

Location: MSF Hospital, Wing B, Room #151

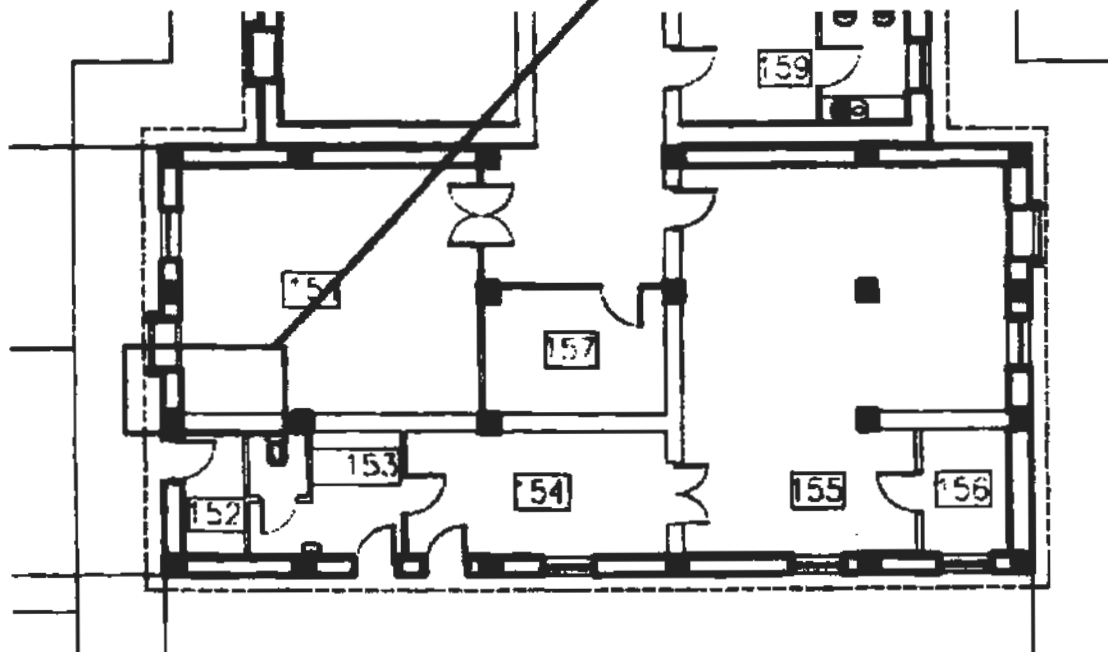
Report: Due to the rocket/ bomb impact the roof slab walls and floor has been damaged.



Photo #46

Location: MSF Hospital, Wing B, Room #151

Report: Due to the rocket/ bomb impact the roof slab walls and floor has been damaged.



Location: MSF Hospital, Wing B, Room #151

Report: Due to the rocket/ bomb impact the roof slab walls and floor has been damaged.



Photo #47

Location: MSF Hospital, Wing B, Room #155

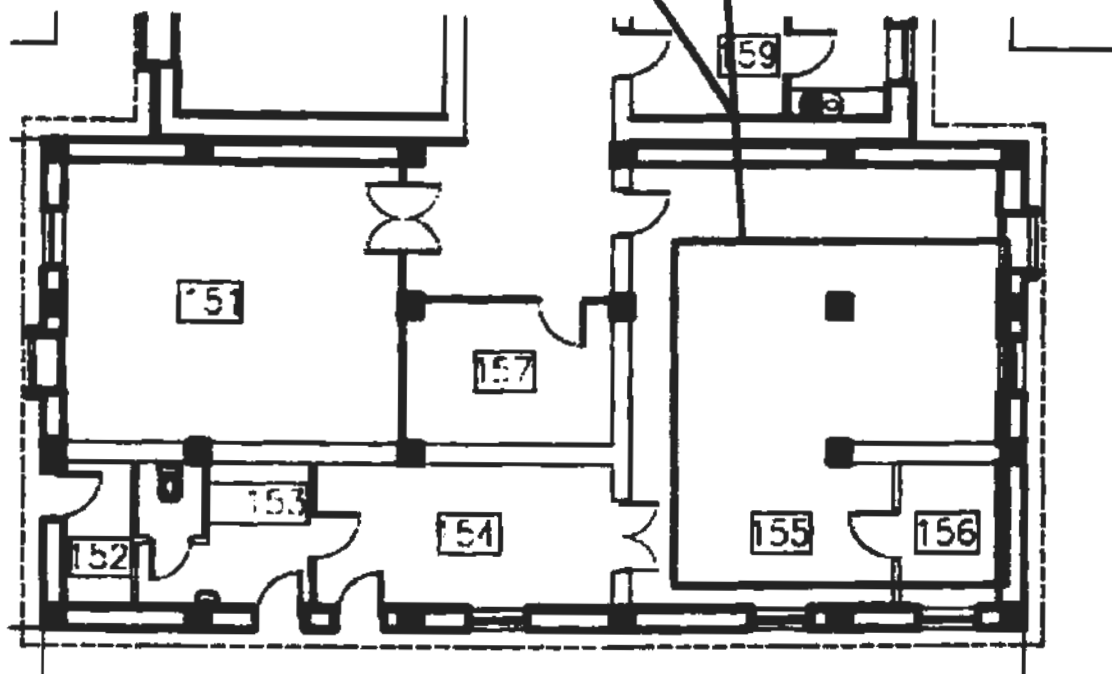
Report: Due to the rocket/ bomb impact the fall ceiling has been damaged.



Photo #48

Location: MSF Hospital, Wing B, Room #155

Report: Due to the rocket/ bomb impact the fall ceiling has been damaged.



Location: MSF Hospital, Wing B, Room #155

Report: Due to the rocket/ bomb impact the roof slab walls and floor has been damaged.



Photo #49
Location: MSF Hospital, Wing B, Room #160
Report: Due to the rocket/ bomb impact roof slab and corridor wall damaged.

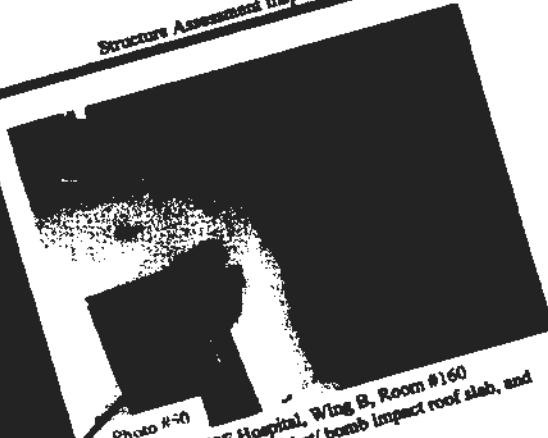


Photo #50
Location: MSF Hospital, Wing B, Room #160
Report: Due to the rocket/ bomb impact roof slab, and corridor wall damaged.

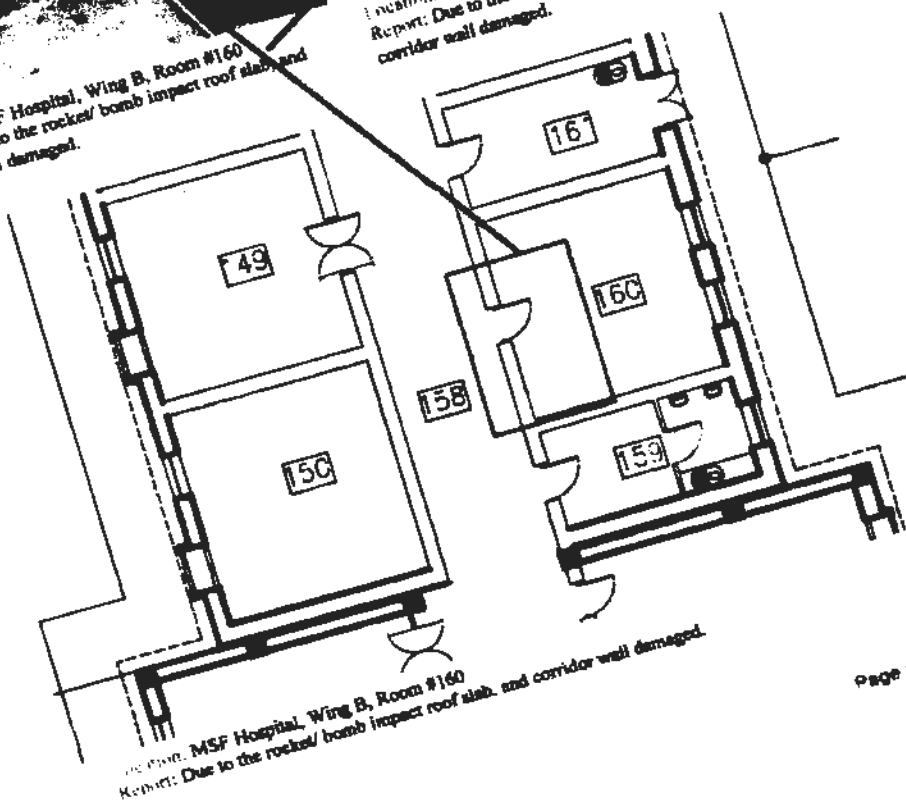




Photo #51

Location: MSF Hospital, Wing B, Room #161
Report: Due to the rocket/ bomb impact exterior wall with the door lintel has been damaged.

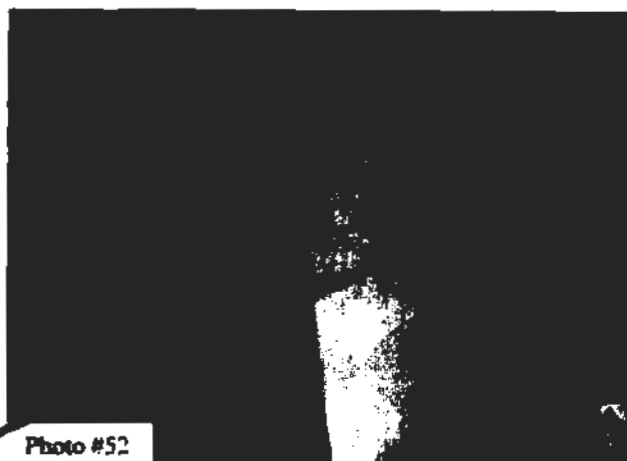
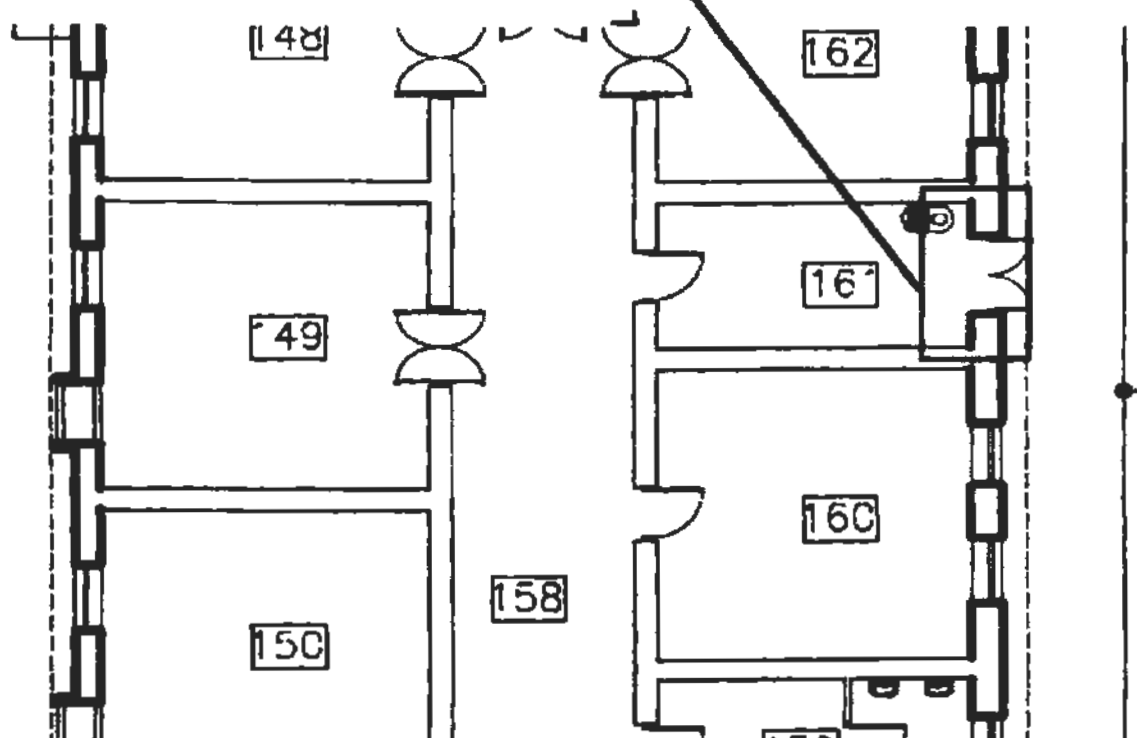


Photo #52

Location: MSF Hospital, Wing B, Room #161
Report: Due to the rocket/ bomb impact exterior wall with the door lintel has been damaged.



Location: MSF Hospital, Wing B, Room #161
Report: Due to the rocket/ bomb impact exterior wall with the door lintel has been damaged.

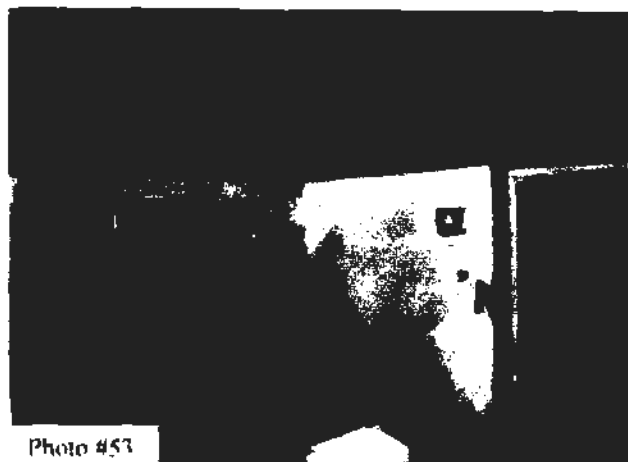


Photo #53

Location: MSF Hospital, Wing B, Room #162

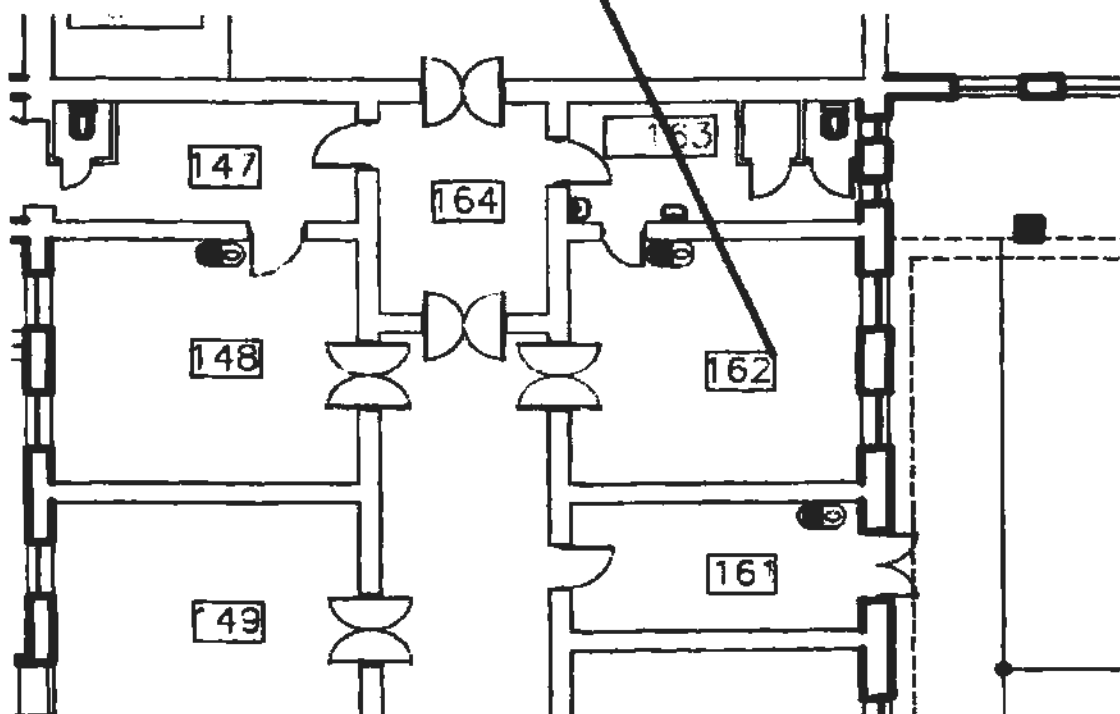
Report: These photos indicate the wall, roof, ceiling and floor finishing in wing/section B as well as it indicates the heating system.



Photo #54

Location: MSF Hospital, Wing B, Room #162

Report: These photos indicate the wall, roof, ceiling and floor finishing in wing/section B as well as it indicates the heating system.



Location: MSF Hospital, Wing B, Room #162

Report: These photos indicate the wall, roof, ceiling and floor finishing in wing/section B as well as it indicates the heating system.

Wing/Section A



Photo #55

Location: MSF Hospital, Wing A, Room #116

Report: Due to the rocket/ bomb impact the entire wing/section has been damaged, all roof trusses, roof sheeting, wall with the doors and windows has been damaged.

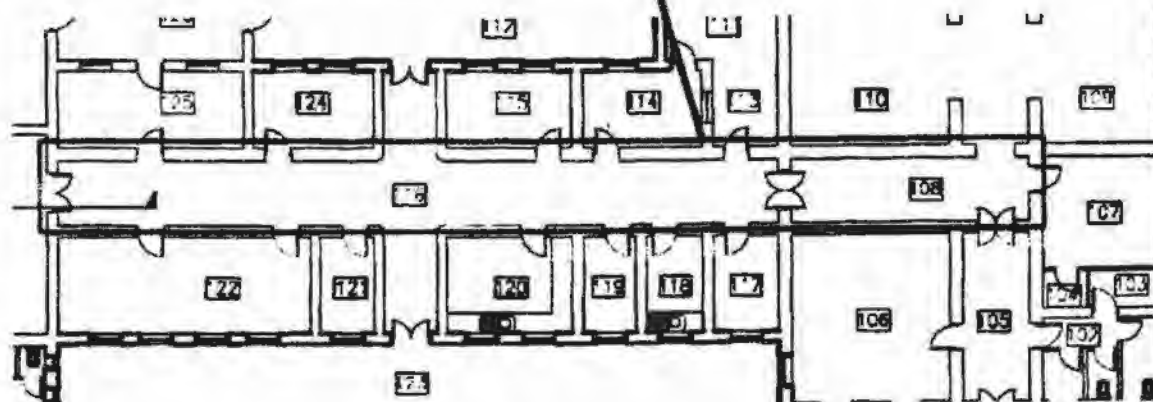




Photo #56

Location: MSF Hospital, Wing A, Room #105
Report: The rocket impact caused damaged.



Photo #57

Location: MSF Hospital, Wing A, Room #105
Report: Due to the rocket/ bomb impact the entire wing/section has been damaged, all roof trusses, roof sheeting, wall with the doors and windows has been damaged.

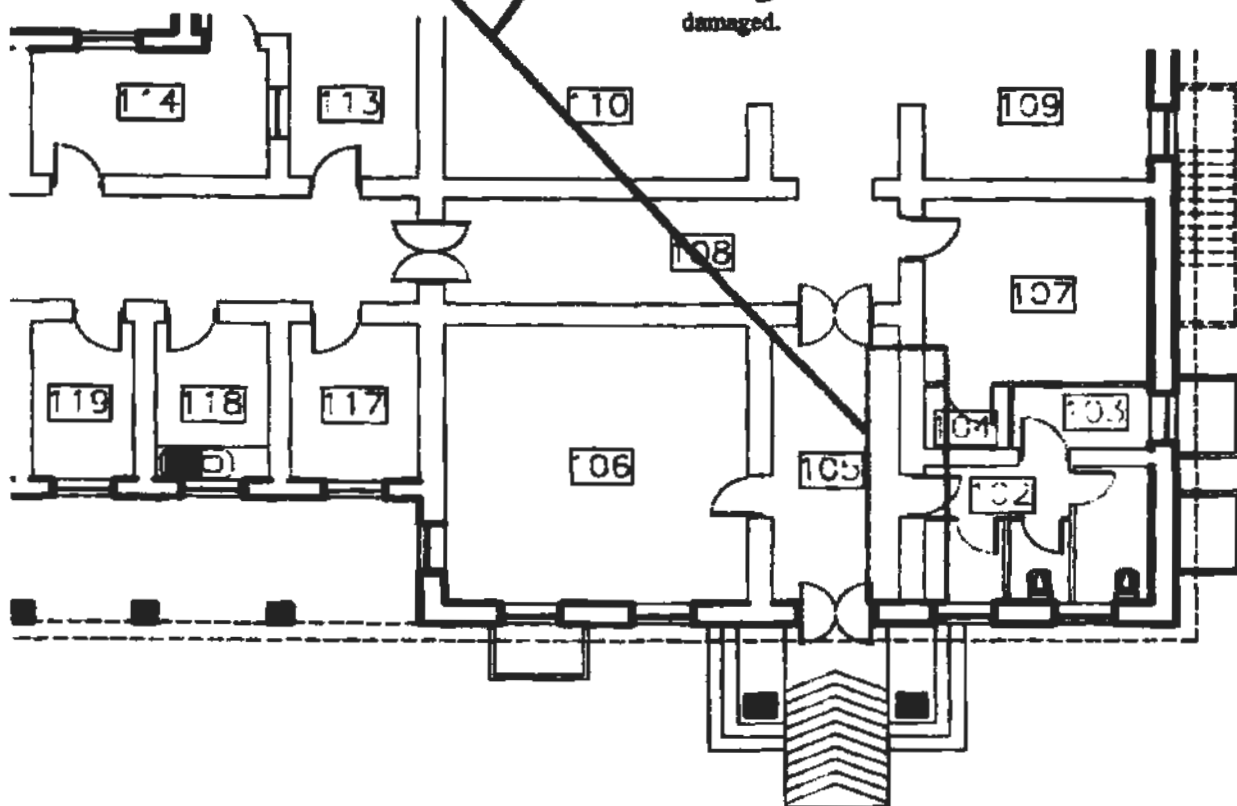




Photo #58

Location: MSF Hospital, Wing A, Room #106
Report: The rocket impact caused damaged.



Photo #59

Location: MSF Hospital, Wing A, Room #106
Report: Due to the rocket/ bomb impact the entire wing/section has been damaged, all roof trusses, roof sheeting, wall with the doors and windows has been damaged.

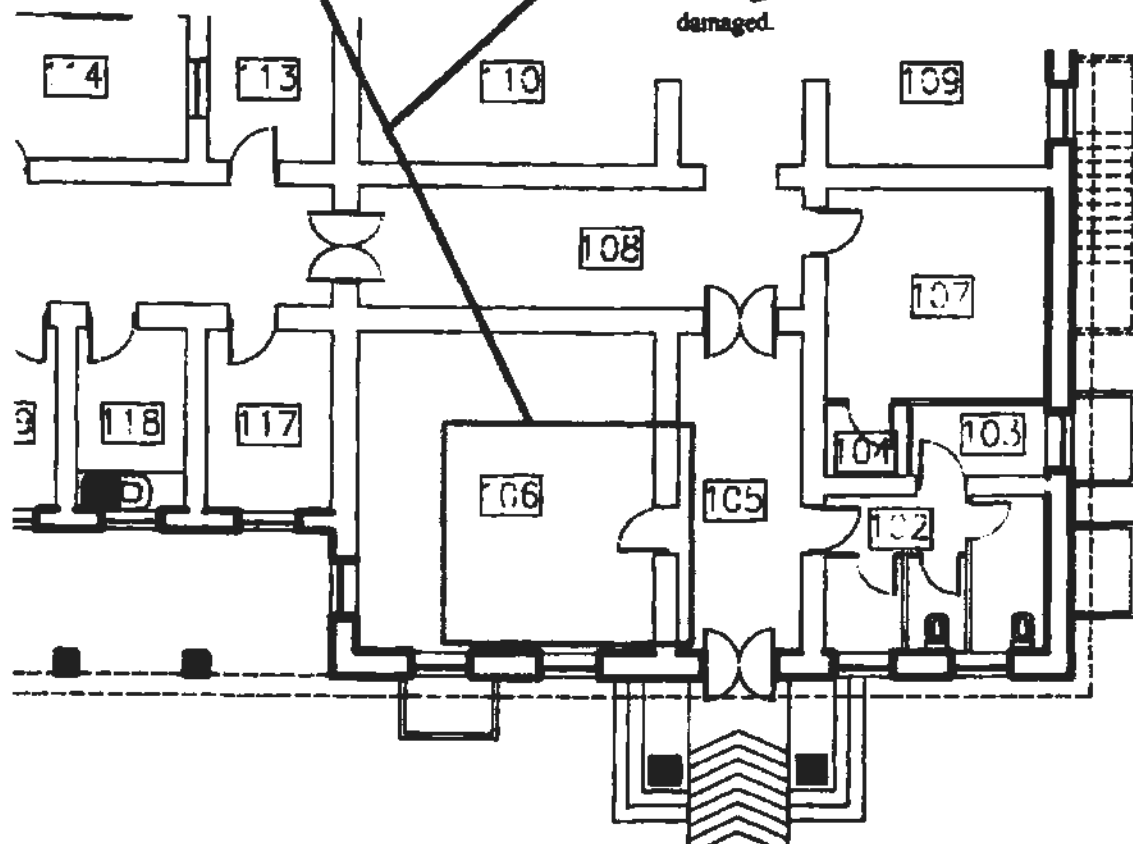




Photo #60

Location: MSF Hospital, Wing A, Room #107

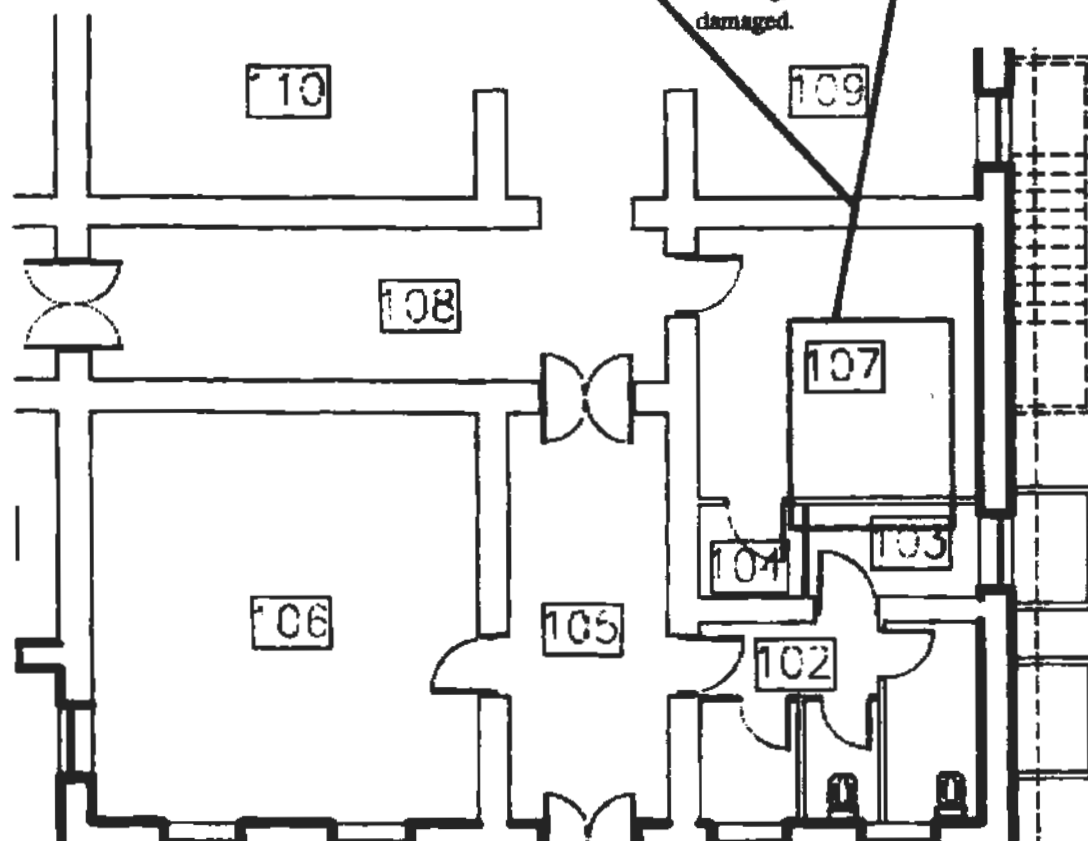
Report: The rocket impact caused damaged. it damaged the floor slab and passed to the basement.



Photo #61

Location: MSF Hospital, Wing A, Room #107

Report: Due to the rocket/ bomb impact the entire wing/section has been damaged, all roof trusses, roof sheeting, wall with the doors and windows has been damaged.



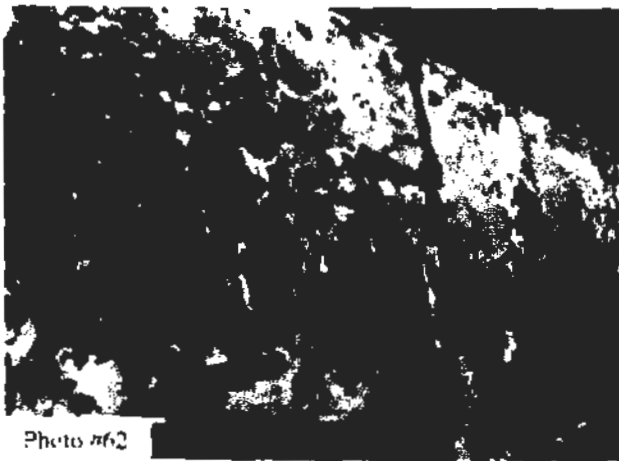


Photo #62

Location: MSF Hospital, Wing B, Room #117
Report: Due to the rocket/ bomb impact interior wall with the door lintel has been damaged.



Photo #63

Location: MSF Hospital, Wing B, Room #117
Report: Due to the rocket/ bomb impact interior wall with the door lintel has been damaged.

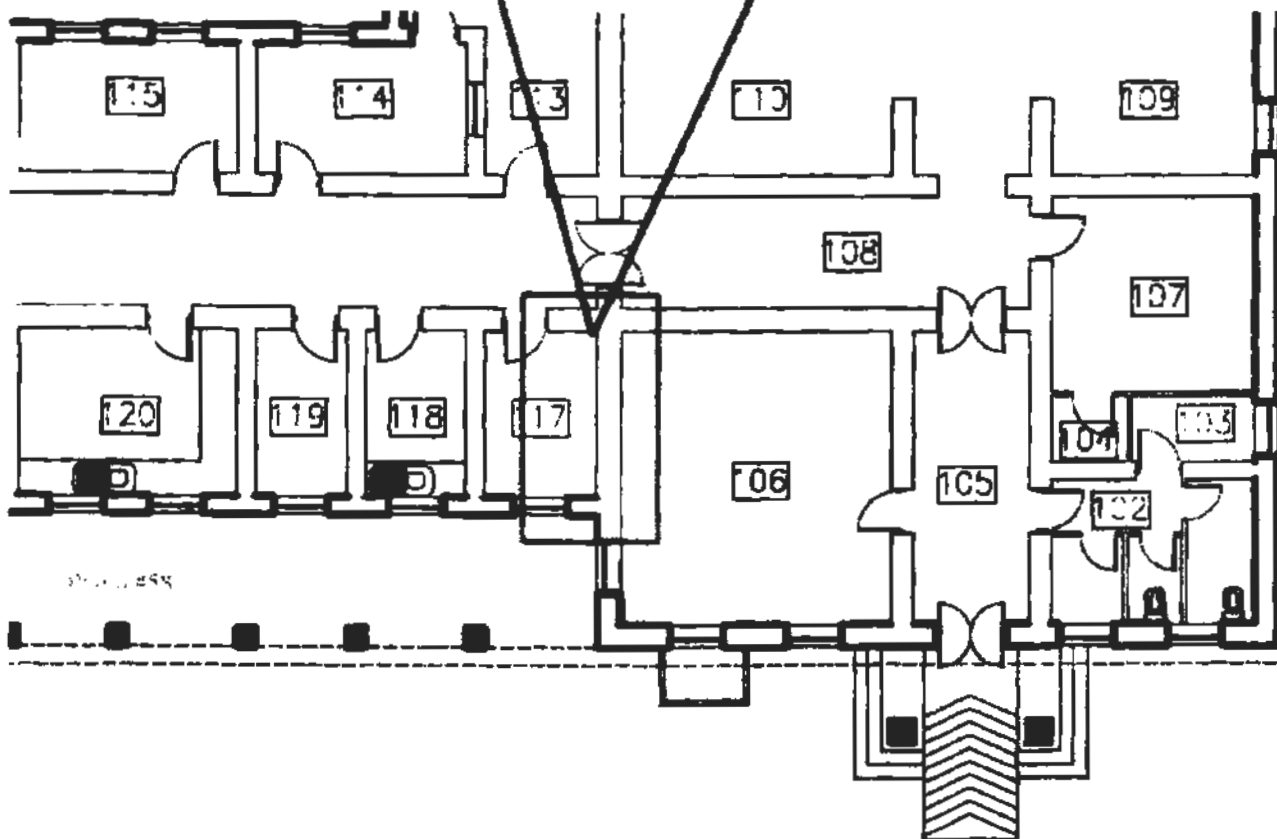




Photo #64

Location: MSF Hospital, Wing A, Room #148

Report: Due to the rocket/ bomb impact the exterior wall has been damaged.

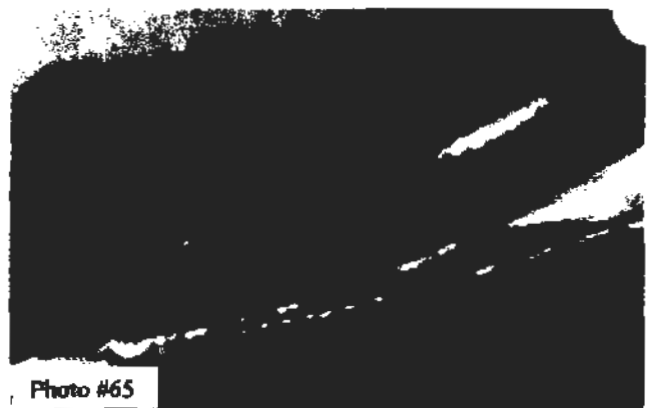
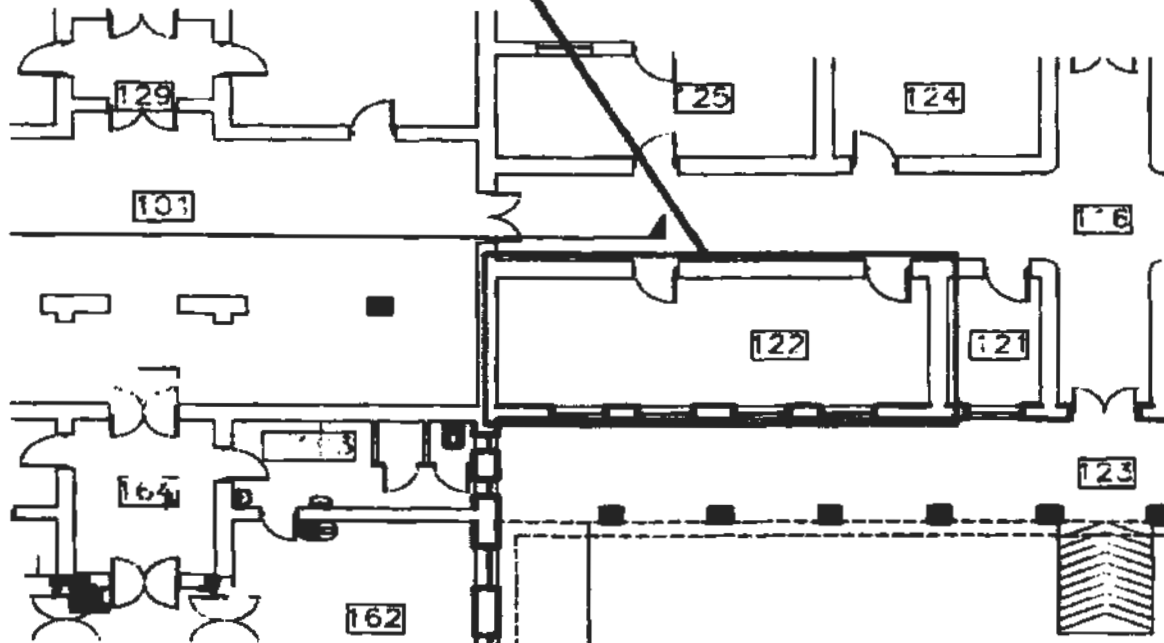


Photo #65

Location: MSF Hospital, Wing A, Room #148

Report: Due to the rocket/ bomb impact the exterior wall has been damaged.



Location: MSF Hospital, Wing A, Room #148

Report summary Section A: Due to the rocket/ bomb impact the exterior and interior walls have been damaged. Physically the walls stand and seem stable; but, the impacts and explosion and fire has effect on the entire structure. Therefore, the most damages has been occurred in the entire section A. all existing tools, stuff/ equipment that was inside this section have been damaged and burned.

Section TWing C



Photo #66

Location: MSF Hospital, Wing C, Room #138

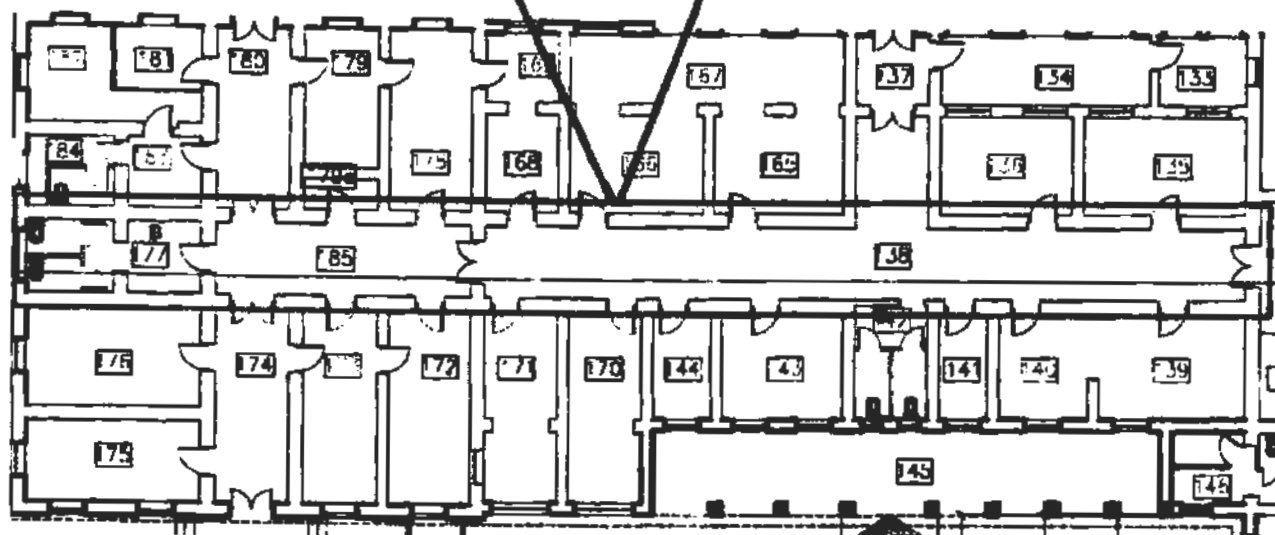
Report: Due to the fire and rocket/ bomb impact the roof truss with sheets has been damaged.



Photo #67

Location: MSF Hospital, Wing C, Room #138

Report: Due to the fire and rocket/ bomb impact the roof truss with sheets has been damaged.



Location: MSF Hospital, Wing C, Room #138

Report: Due to the fire and rocket/ bomb impact the roof truss with sheets has been damaged. The entire section C physically damaged. Roof truss including the sheeting, doors, windows, existing equipment and stuff has been damaged and burned. Nothing is reparable. The most damages occurred on this section.



Photo #68

Location: MSF Hospital, Wing C, Room #143
Report: Due to the rocket/ bomb impact the entire existing facilities have been damaged.



Photo #69

Location: MSF Hospital, Wing C, Room #143
Report: Due to the rocket/ bomb impact the entire existing facilities have been damaged.

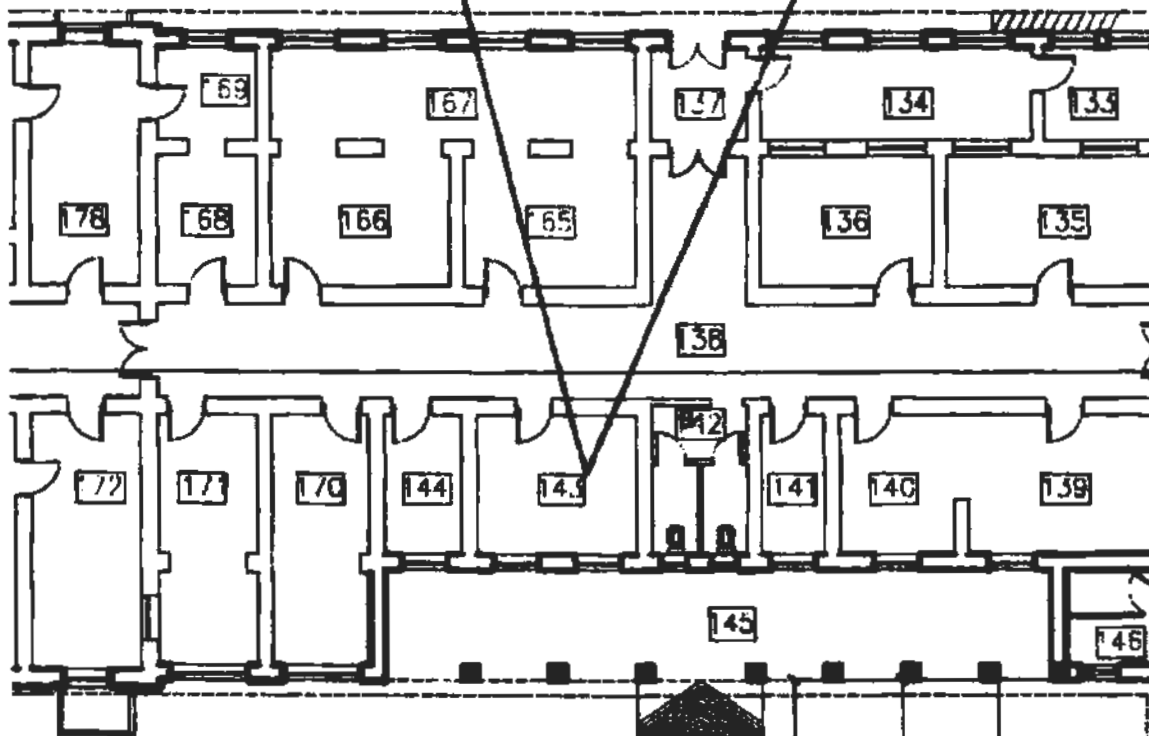




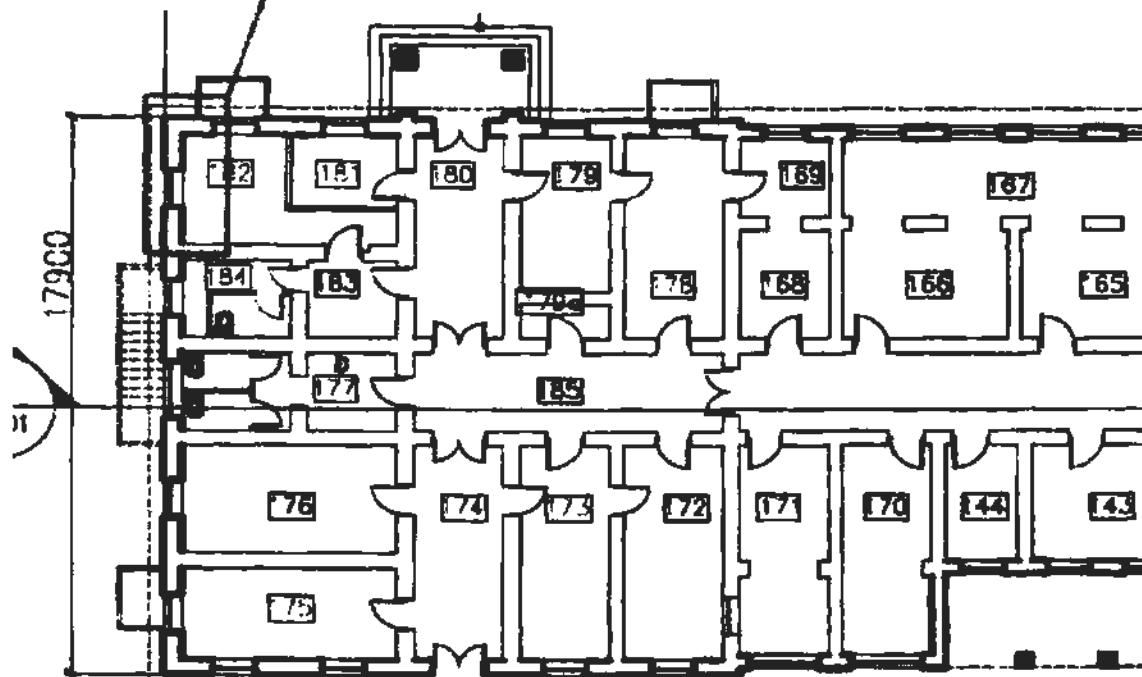
Photo #70

Location: MSF Hospital, Wing C, Room #180
 Report: Due to the rocket/ bomb impact the entire structure and existing facilities have been damaged.



Photo #71

Location: MSF Hospital, Wing C, Room #180
 Report: Due to the rocket/ bomb impact the entire existing facilities have been damaged.



WEST SIDE BASEMENT

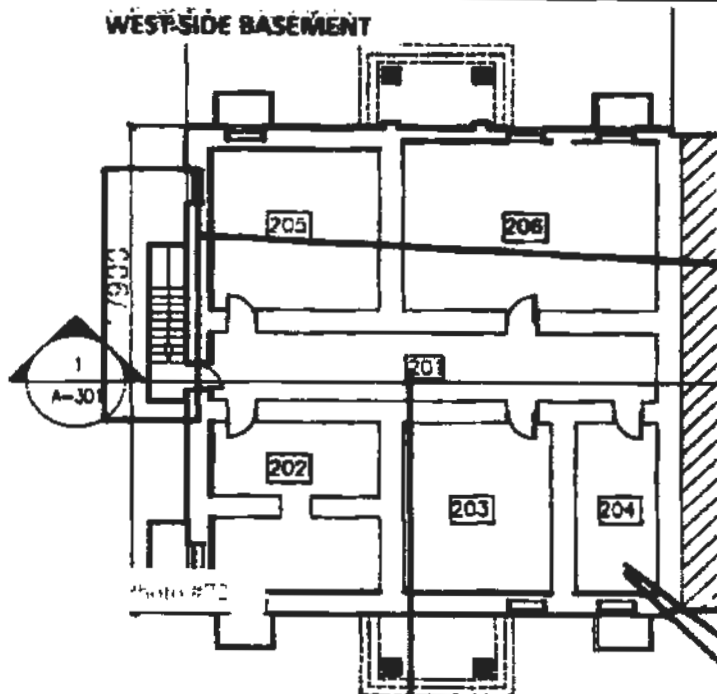


Photo #73

Location: MSF Hospital, West side Basement
Report: Due to the rocket/ bomb impact the stair of this basement has been damaged. This basement has been constructed by brick masonry .



Photo #74

Location: MSF Hospital, West side Basement
Report: Due to the rocket/ bomb impact the stair of this basement has been damaged. This basement has been constructed by brick masonry .



Photo #75

Location: MSF Hospital, West side Basement
Report: Due to the rocket/ bomb impact the stair of this basement has been damaged. This basement has been constructed by brick masonry .

EAST SIDE BASEMENT

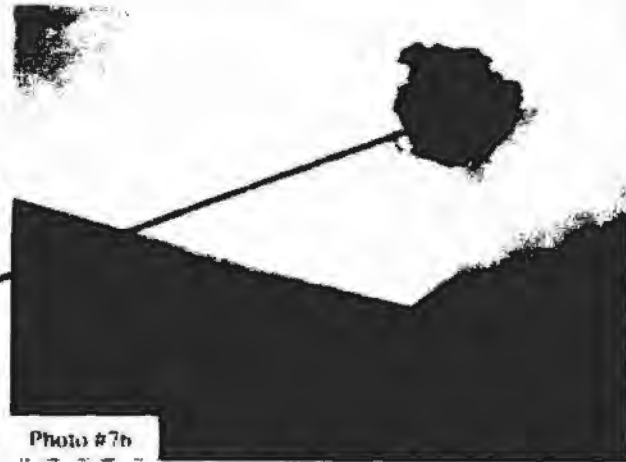
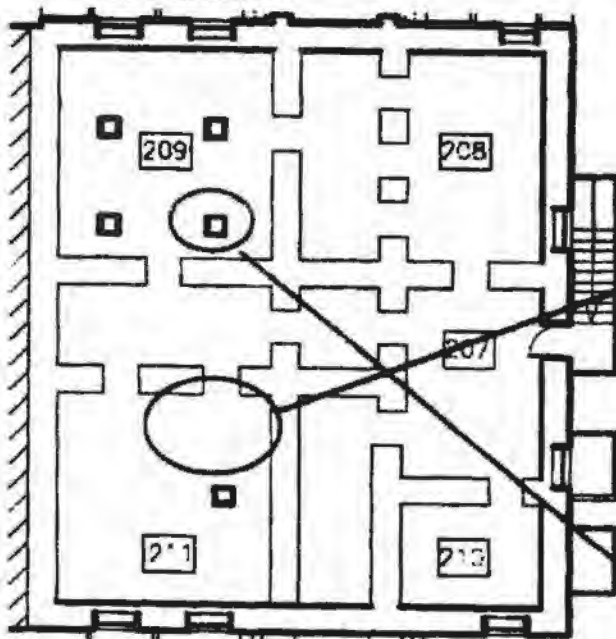


Photo #76

Location: MSF Hospital, East side Basemen
Report: Due to the rocket/ bomb impact the roof slab of the basement has been damaged. This basement has concrete frame structure.



Photo #77

Location: MSF Hospital, East side Basemen
Report: Due to the rocket/ bomb impact the roof slab of the basement has been damaged. Some cracks visible around the beams and girder next to the columns



Photo #78

Location: MSF Hospital, East side Basemen
Report: Due to the rocket/ bomb impact the roof slab of the basement has been damaged. Some cracks visible around the beams and girder next to the

APPENDIX B-II

Mechanical

Assessment photography

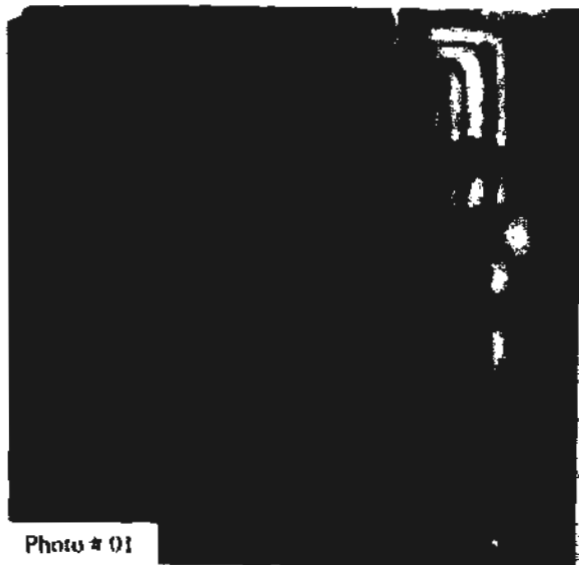


Photo # 01



Photo # 02

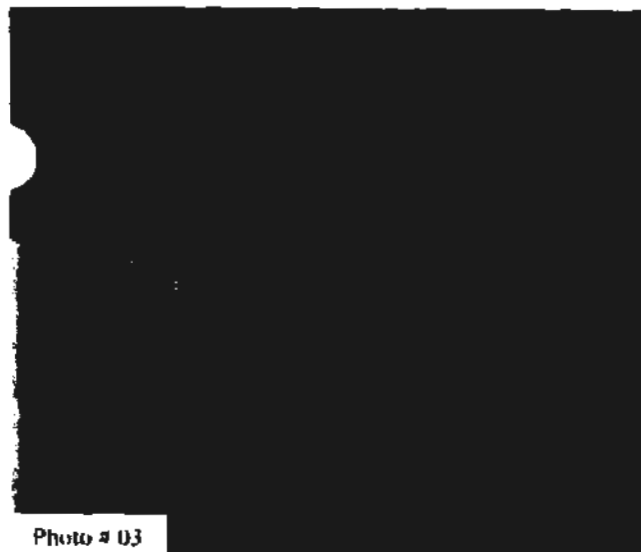


Photo # 03



Photo # 04

Location: Kunduz Hospital Basement heating system

Photo information: The photos above show mechanical central heating systems, which are located in the basement, consist of two boiler, one diesel tank, pumps, supply pipe and return pipes.

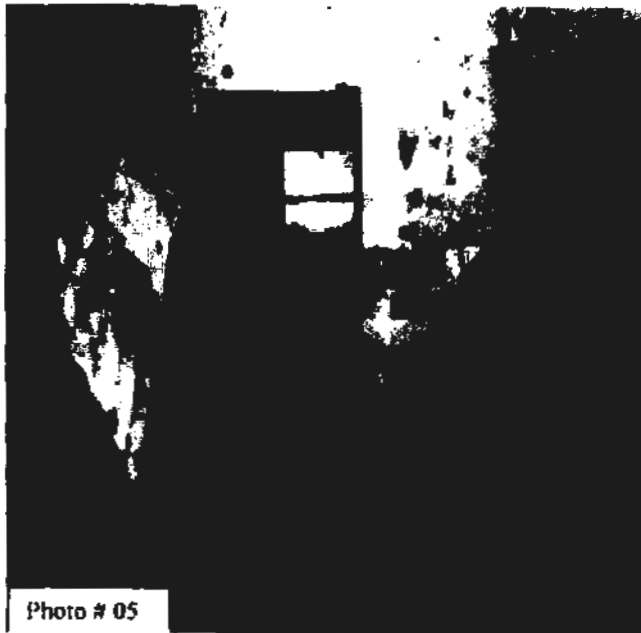


Photo # 05



Photo # 06

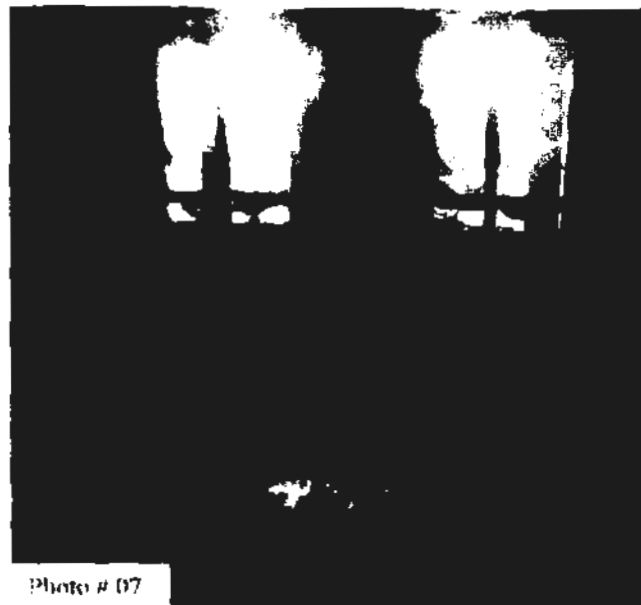


Photo # 07

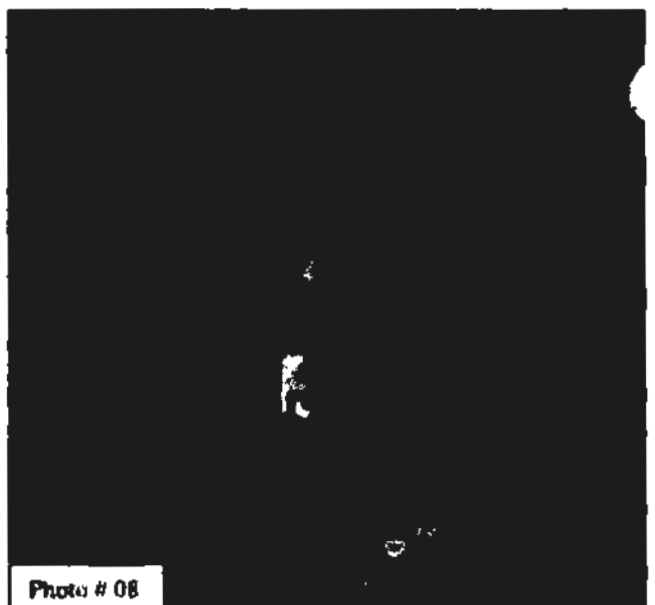


Photo # 08

Location: Kunduz Hospital Ground Floor Heating System

Photo Information: In Kunduz Hospital, almost everything related to central heating system inside the rooms (radiators, supply pipes and return pipes) were destroyed.

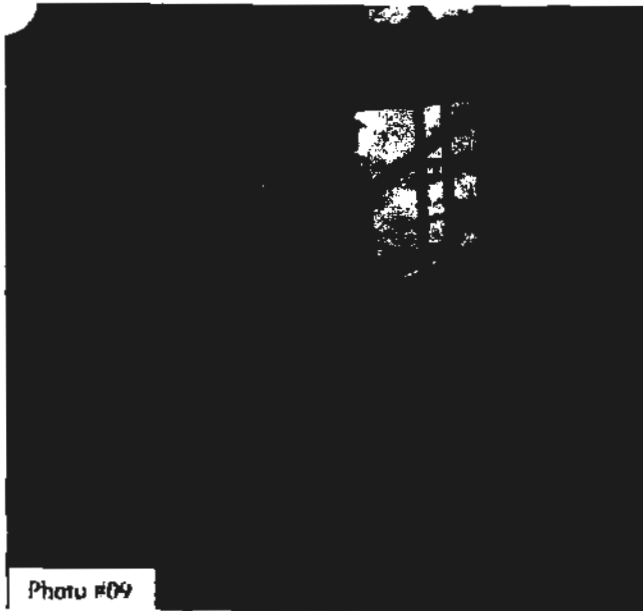


Photo #09



Photo #10

Location: Kunduz Hospital Area

Observation: There were three water storage tanks (two located on the ground and another elevated water storage) inside the hospital area, which are pumping the water all through building by booster pump.



Photo #11

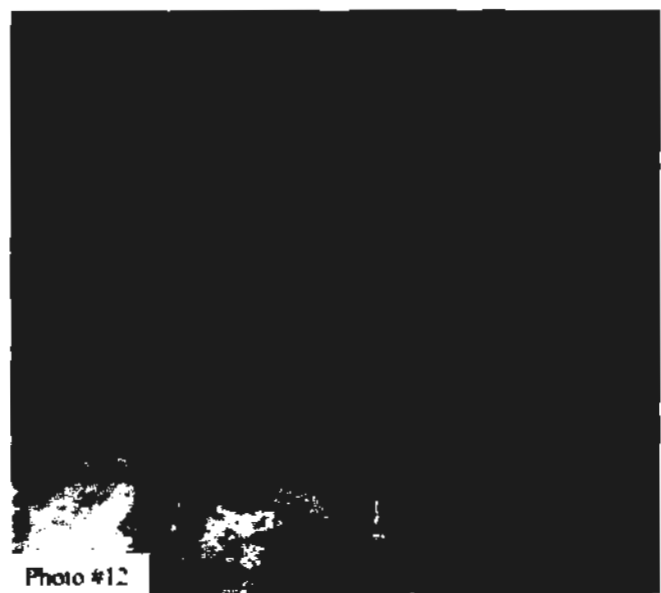


Photo #12

Location: Kunduz Hospital

Observation: The HVAC air diffusers, air grills, air dampers are damaged due to fire inside the hangar therefore the mentioned mechanical HVAC systems are not functional for ventilation of hangar.

Appendix: 0-11

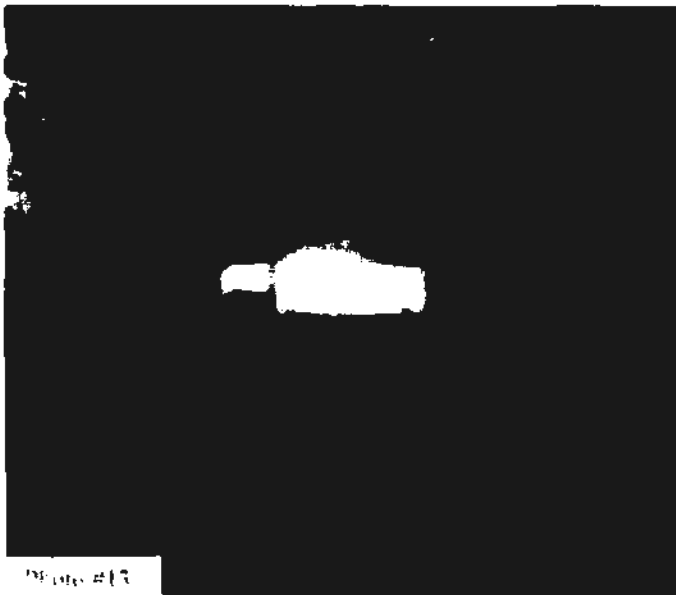


Photo #13

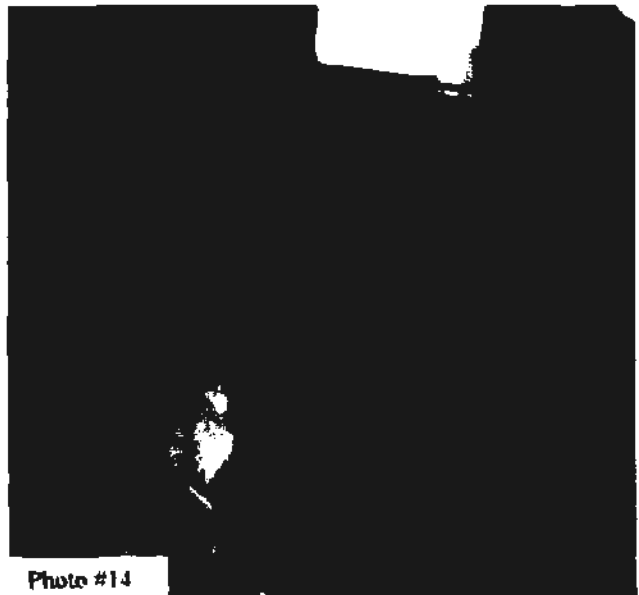


Photo #14

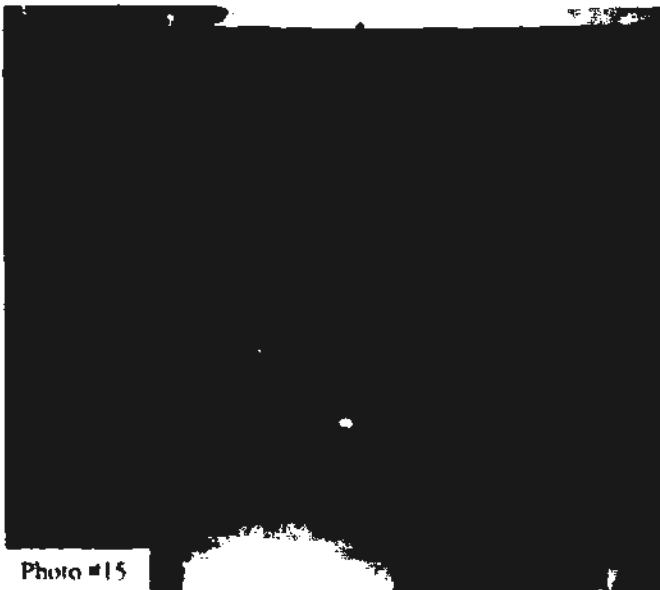


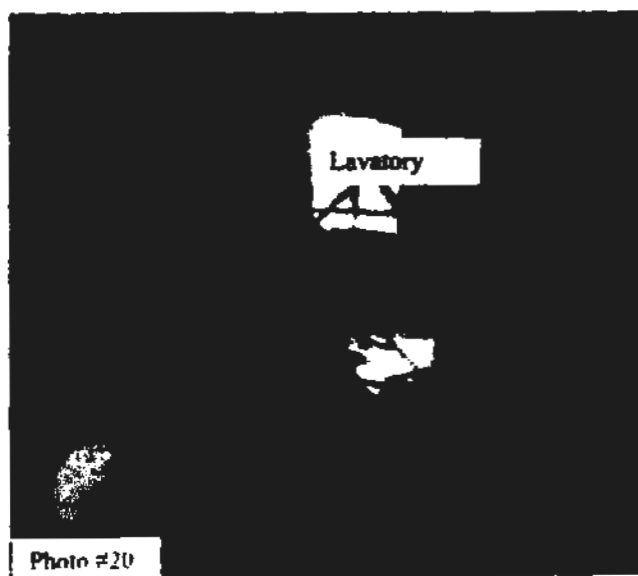
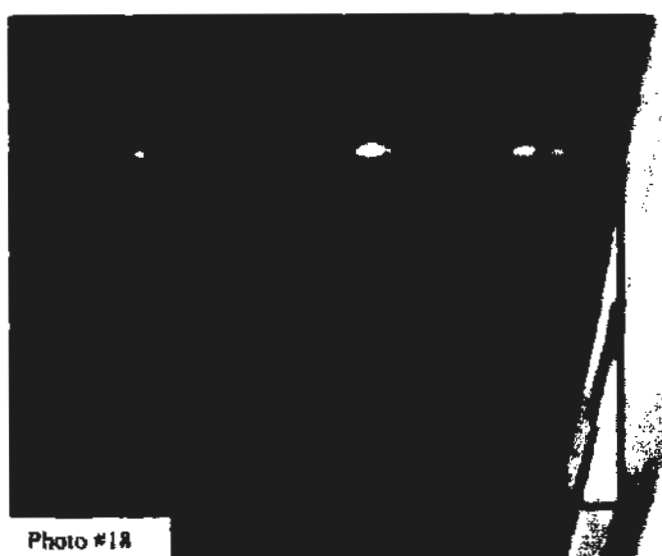
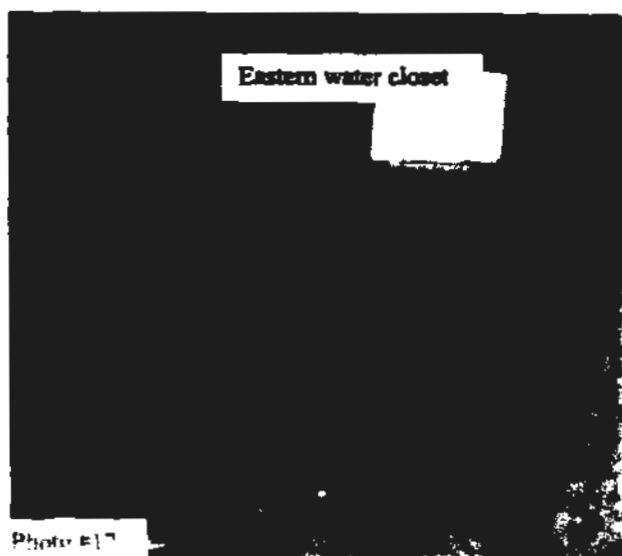
Photo #15



Photo #16

Location: Kunduz MSF Hospital

Photo information: There are two HVAC units located outside the hangar each HVAC unit have one supply duct and one return duct for ventilation of inside the hangar, but due to fire inside the hangar smoke is influenced into the units therefore the units needs to maintenance. The mentioned units functionality is could not verify because there was no power.



Location: Kunduz hospital water system and fixtures

Photo information: Almost all expose pipes, fixtures, water heater and sanitary materials (water closet, lavatory and sink) inside the building were destroyed; all of them must be reconstructed

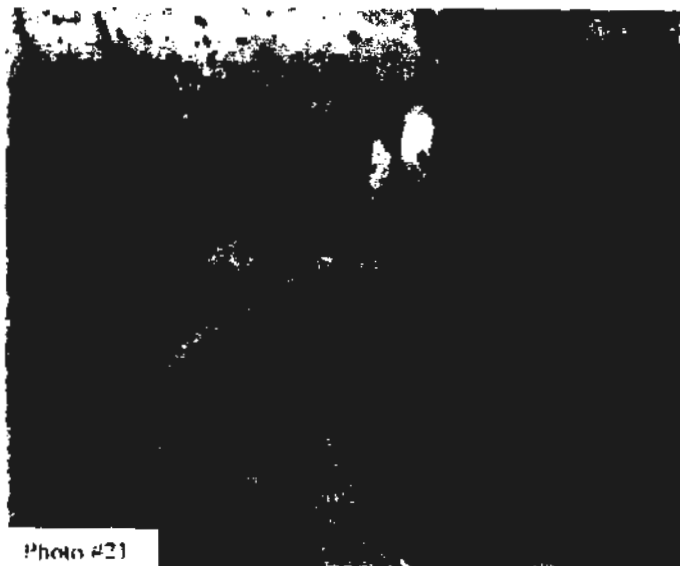


Photo #21

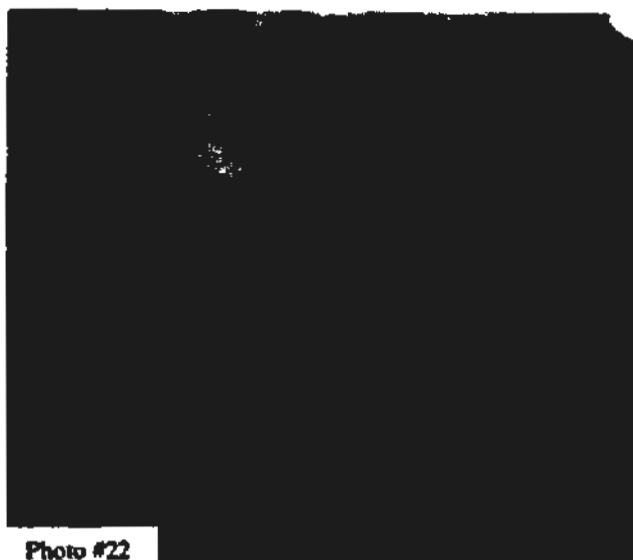


Photo #22



Photo #23

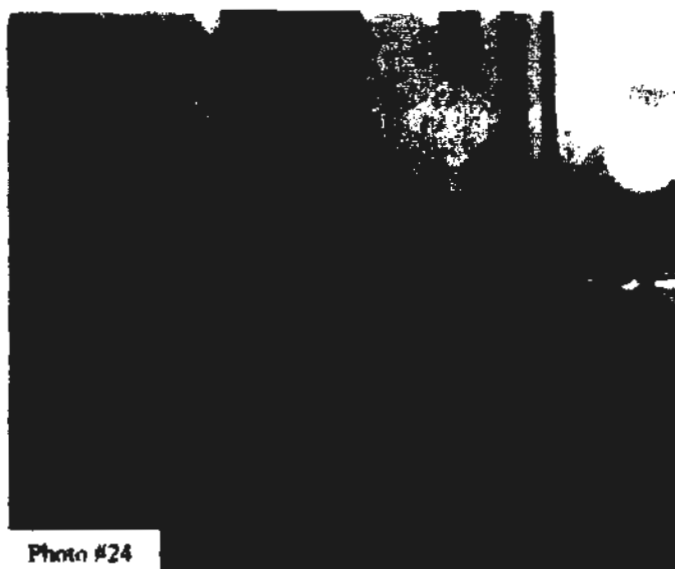


Photo #24

Location: Kunduz hospital Sewer, North and West sides.

Photo information: All the expose pipes (Above the ground pipes) were destroyed being inside or outside the building (damaged building).



Photo #25

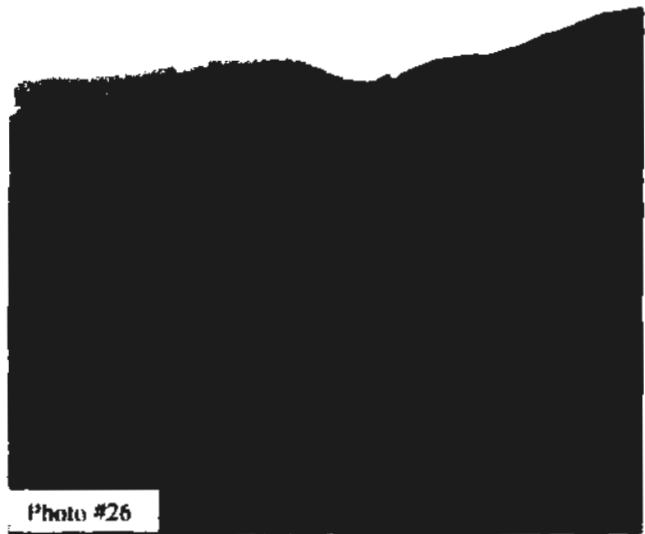


Photo #26



Photo #27



Photo #28

Location: Kunduz hospital ventilation system, North Elev.

Inspection observation: In the Kunduz hospital during our inspection and observation there were ventilation duct with louver in three different location of the building. Furthermore, all three ventilation ducts with louvers have been destroyed.

APPENDIX B-III

Electrical

Assessment photography



Photo # 01



Photo # 02



Photo # 03



Photo # 04

1. MSF Kunduz Hospital main building

2. All electrical systems have been damaged, burned out and not operational.



Photo # 05

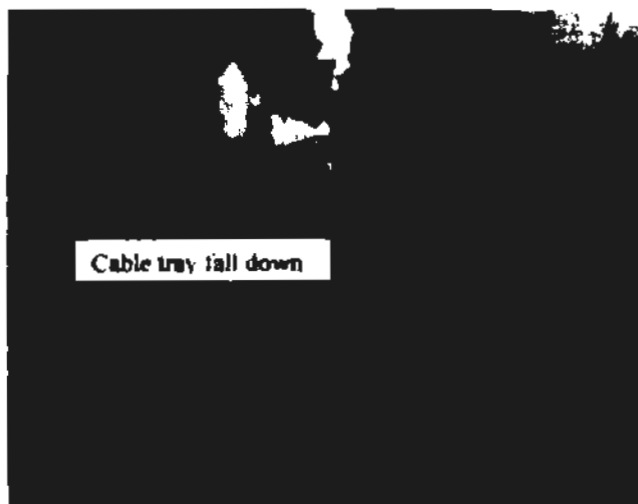


Photo # 06



Photo # 07



Photo # 08

Location: MSF Kunduz Hospital main building

Photo Information: All electrical systems have been damaged, burned out and not operational.



Photo #9



Photo #10



Photo #11



Photo #12

Location: MSF Kunduz Hospital main building

Photo information: All electrical systems have been damaged, burned out and not operational.



Photo #13



Photo #14



Photo #15



Photo #16

Location: MSF Kunduz Hospital main building basements

Photo information: The basement of the building is divided into two parts. The one is located at the west sit of the building and the other one is located at the east sit of the building. The west site basement electrical system have not been installed and in the east site electrical system have been installed but now it is not operational, electrical wiring is in poor conditions and their connection with the power supply interrupted.



Photo #17



Photo #18



Photo #19



Photo #20

MSF Kunduz Hospital
The electrical cable that feeds the building has been cut in outside of the building see photo# 17 and 18. Electrical cables in the manholes are not verified and due to damage of manholes it was not specific that which cable is feeding the building. For more information please see photos# 19 and 20.



Photo #2



Photo #22



Photo #23



Photo #24

Location: **MSF Kunduz Hospital, Generator Room& step down transformer**

Photo information: **This Hospital has been powered by four Generators and one stepdown transformer which is feed from city power. Generators and transformer are located in south site of main building, the distance between main building and Generators, transformer is about 85 Meters.**

APPENDIX C

Site Photos