

LA-UR-00-5888

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Title: Sherwood and Scyllac Buildings, TA-3-105 and TA-3-287; A Preliminary Report

Author(s): Ellen D. McGehee and Kari L. M. Garcia

Submitted to: The New Mexico State Historic Preservation Officer in Compliance with the National Historic Preservation Act of 1966 (As Amended)



Los Alamos
NATIONAL LABORATORY

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LA-UR-00-XXXX

**Sherwood and Scyllac Buildings, TA-3-105 and TA-3-287;
A Preliminary Report**

Historic Building Survey Report No. 189

Los Alamos National Laboratory

**December 7, 2000
Survey No. 773**

Prepared for the Department of Energy
Los Alamos Area Office

prepared by

**Ellen D. McGehee
And
Kari L. M. Garcia**
Cultural Resource Managers

ESH-20 Cultural Resources Team
Environment, Safety, and Health Division
LOS ALAMOS NATIONAL LABORATORY

Introduction:

The following information has been prepared as part of a notification of potential adverse effect to two historic Los Alamos National Laboratory (LANL) properties, TA-3-105 and TA-3-287. The proposed decontamination and decommissioning (D&D) action is related to a revitalization project at Technical Area (TA) 3, the main administrative area at LANL. D&D activities will adversely effect the attributes that make these two buildings eligible for the National Register of Historic Places.

This report is intended to provide the initial background information necessary to initiate the Section 106 consultation process; additional documentation will follow when a treatment plan is developed and final mitigation measures are determined. This short report contains a description of the proposed action, brief property descriptions, historical background information, building integrity and contamination information, and recommendations for National Register of Historic Places eligibility.

The SHPO is requested to concur with the eligibility determinations contained in this report and to concur that the proposed decontamination and decommissioning action will adversely effect TA-3-105 and TA-3-287.

Project Description:

In May and June 1999, a historic building survey was conducted for two buildings proposed for decontamination and decommissioning, TA-3-105 (the Sherwood Building) and TA-3-287 (the Scyllac Building). Work processes carried on in both buildings were related to fusion energy and plasma physics. The buildings were operational during the Cold War years at Los Alamos (1956-1990).

Ancillary structures associated with building TA-3-105 are also scheduled for decontamination and decommissioning: four modular office buildings (TA-3-400, -401, -402, and -403), a trailer office (TA-3-1597), and a single substation (TA-3-122). These structures are not eligible for the National Register due to their recent age and lack of historical significance.

A 1998 engineering analysis concluded that upgrading TA-3-105 and TA-3-287 to conform with the TA-3 revitalization effort would not be cost effective. Furthermore, the buildings could no longer be used for their original experimental purposes because of the densely populated nature of TA-3. In the event that the proposed D&D project is carried out, all buildings and structures listed above will be destroyed.

Background Information:**Physical Description – TA-3 and Buildings TA-3-105 and TA-3-287**

TA-3, South Mesa Site, is a large technical area located on top of South Mesa, across Los Alamos Canyon from the town of Los Alamos, New Mexico. TA-3 functions as the

administrative center of LANL. The main administrative building (TA-3-43), the Oppenheimer Study Center, the Otowi Building, and numerous office and laboratory buildings are located at this technical area. Buildings TA-3-105 and TA-3-287 are in a centrally located complex of buildings near the LANL administrative building. TA-3-105, the Sherwood Building, was constructed from 1956 to 1959. It is a grouping of rectangular structures joined by common walls and corridors constructed in stages. Building materials include steel frame, masonry block and transite siding, and concrete foundations and sub-grade walls. TA-3-287, the Scyllac Building, was constructed from 1968 to 1970. It is a three-floor, steel framed building with a basement (see attached maps, photos and drawings).

Brief Historical Background

The United States began its controlled thermonuclear research program, "Project Sherwood," in 1951. Project Sherwood's mission was to develop an essentially inexhaustible source of energy from the controlled fusion of the nuclei of light atoms. Experiments in controlled thermonuclear reactions were started at Los Alamos in 1951 (GTS Duratek 1999). In 1957, Los Alamos achieved the first controlled thermonuclear plasma using the Scylla theta pinch device (Los Alamos National Laboratory 1995).

In the early days, there were two categories of approach: the steady state approach and the pulsed approach. The steady state approach used stellerators and mirrors. The pulsed approach was represented by theta and z-pinch technology. Los Alamos scientists concentrated on the "pinch concept" developed by Willard Bennett in 1934. When pinch technology is used, an electric current is passed through the plasma creating a magnetic field, which constricts or "pinches" the plasma, thus pulling the plasma away from the material walls. Work continued at Los Alamos from 1959-1990 using theta and z-pinch technologies in the hope of developing an efficient fusion energy source that could be used commercially (GTS Duratek 1999).

Work processes conducted in TA-3-105 and TA-3-287 were key components of Los Alamos' controlled thermonuclear research program. Important Sherwood experiments included the Perhapsatron Series, the Columbus Series, Picket Fence, Ixion, the Hydromagnetic Plasma Gun, the Plasma Acceleration Machine, Plasma Shield Research, and the Scylla Series. Other experiments included the Reverse Field Pinch, the ZT-40, and the Compact Torus Facility. Work conducted at the Scyllac Building included the Scyllac Toroidal Sector and the Scyllac full torus (GTS Duratek 1999).

Integrity Issues and Potential for Contamination

All original experimental equipment from both buildings has been removed resulting in a loss of interior integrity. The buildings have not otherwise been significantly modified. Both TA-3-105 and TA-3-287 are currently being used as office space and storage.

Hazardous materials present in both buildings include asbestos-containing materials (ACM) and lead-based paint. ACM are present in piping insulation and wrapping

materials, wallboard, floor tile, and possibly some roofing materials. Other potential contaminants in both buildings include polychlorinated biphenyls (PCBs), a group of chemicals commonly used in transformers and capacitors. Radiological contamination is not expected in either building due to the nature of the equipment and the types of experiments and operations conducted in the buildings (GTS Duratek 1999).

Eligibility Recommendation:

TA-3-105 and TA-3-287, although less than fifty years old, are eligible for nomination to the National Register of Historic Places. This determination is made under Criterion A of the National Historic Preservation Act of 1966, due to their association with important events during the Cold War years at Los Alamos (criteria consideration G: “properties that have achieved significance within the last fifty years”) (U.S. Department of Interior, 1991). Although TA-3-105 and TA-3-287 have suffered a loss of interior integrity, they are still eligible under Criterion A for their associations with Cold War events of historical importance—experiments conducted at both buildings have contributed to internationally important research in both fusion energy and plasma physics.

References Cited:

GTS Duratek

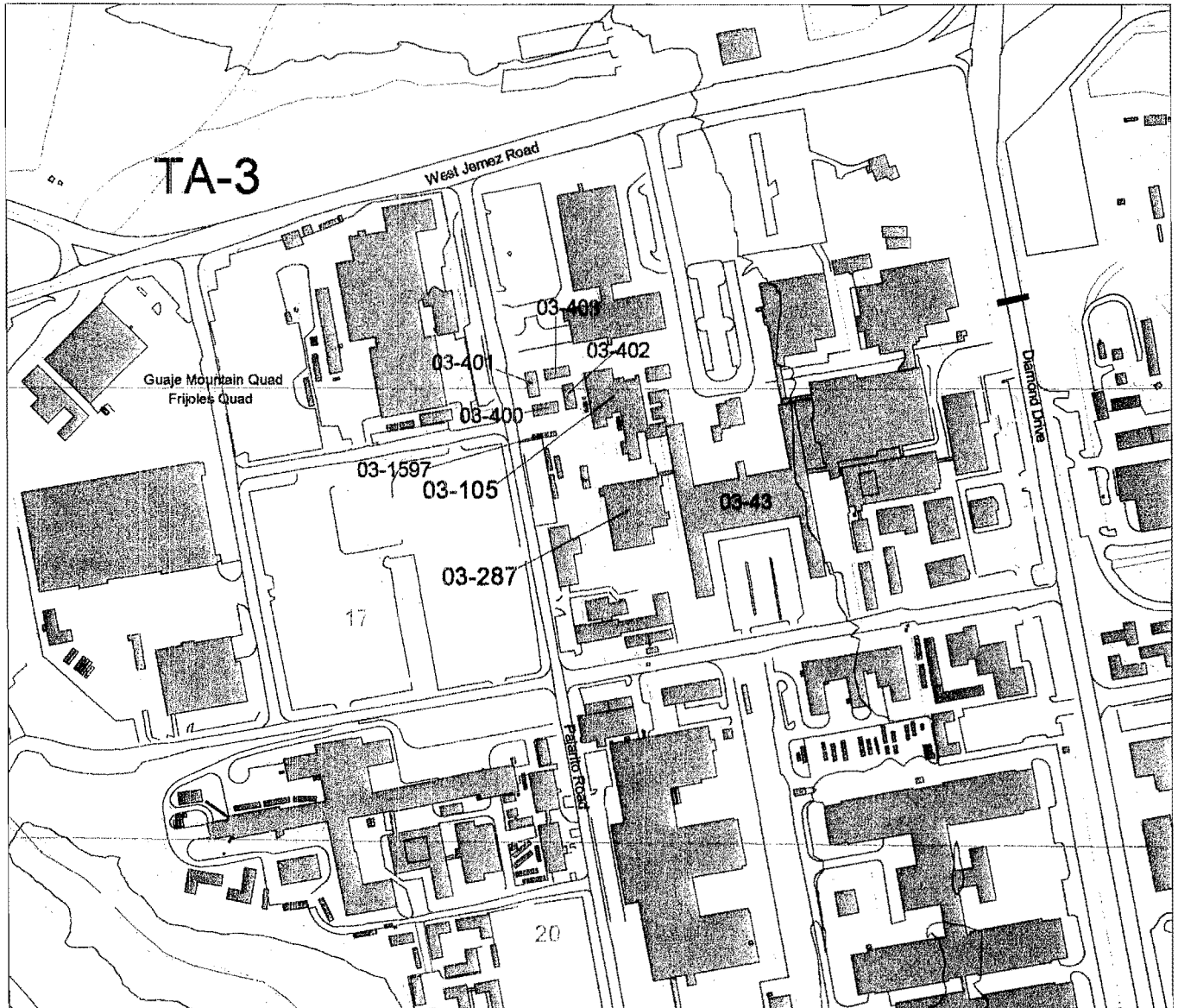
- 1999 Sherwood and Scyllac historical background information prepared by GTS Duratek, Commodore Advanced Sciences, Inc. for LANL EM/D&D. Draft on file at ESH-20, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory

- 1995 *Dateline: Los Alamos, Special Issue*, LALP-95-2-6&7, Los Alamos, New Mexico.

U.S. Department of the Interior

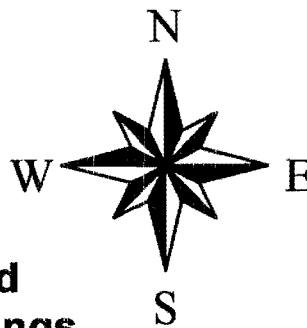
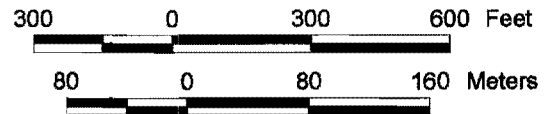
- 1991 How to Apply the National Register Criteria for Evaluation, *In National Register Bulletin*, No. 15, U.S. National Park Service, Washington, D.C.



Los Alamos
National Laboratory

Cultural Resources Team
ESH-20 Ecology Group

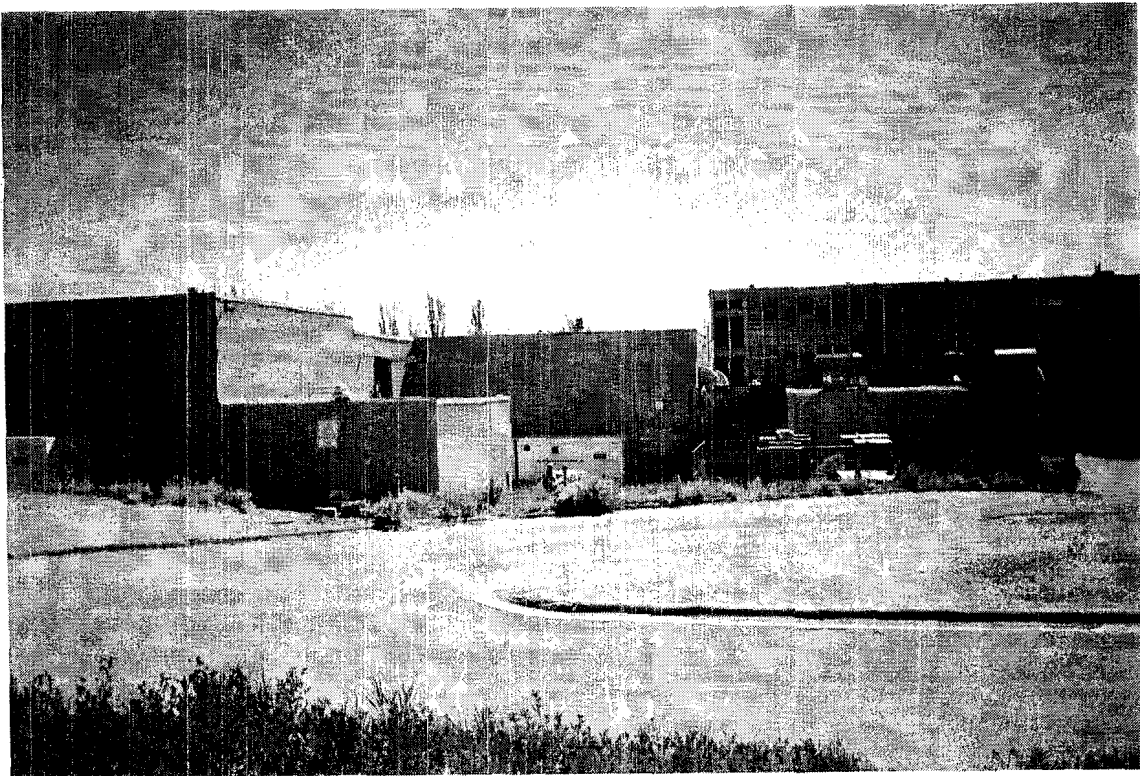
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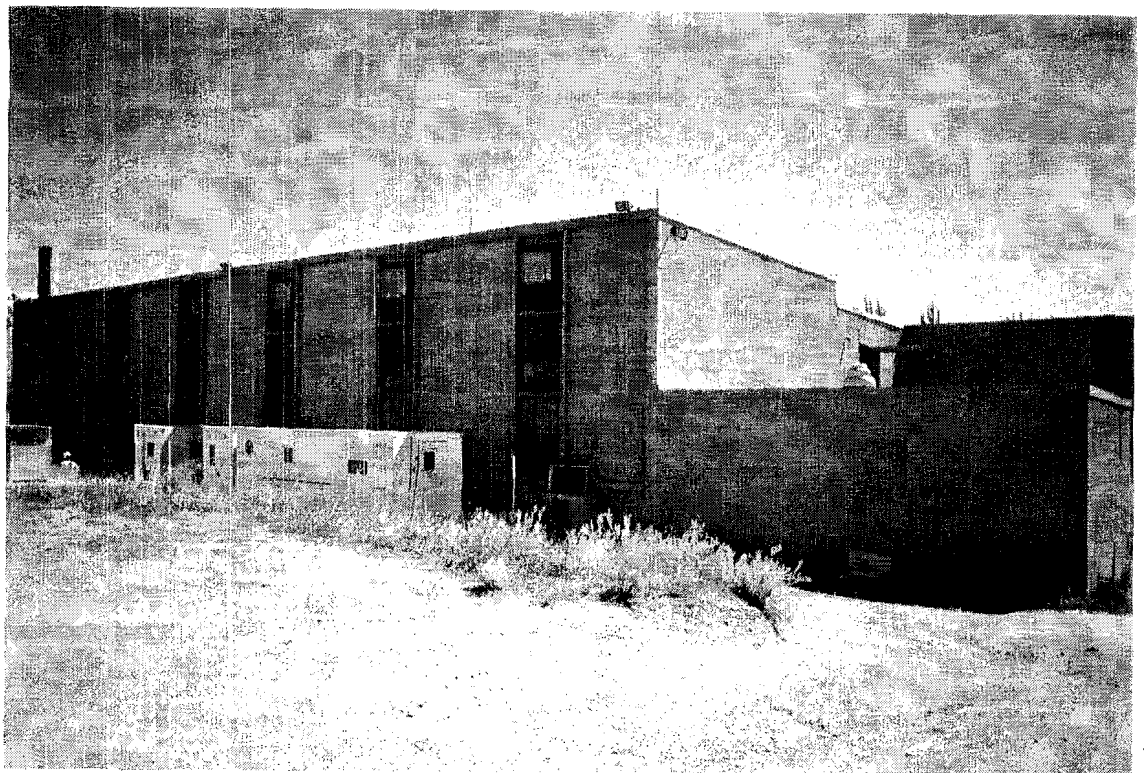
**Sherwood (TA-3-105) and
Scyllac (TA-3-287) Buildings**

- 20 Foot Contours
- 100 Foot Contours
- Techarea
- Drainage
- Township, Section, Range
- 7.5 Minute Quad
- Roads
- Roaddirt
- Parkpave
- Parkdirt
- Fences
- Ugrdbldg
- Permbldg
- Tmpbldg

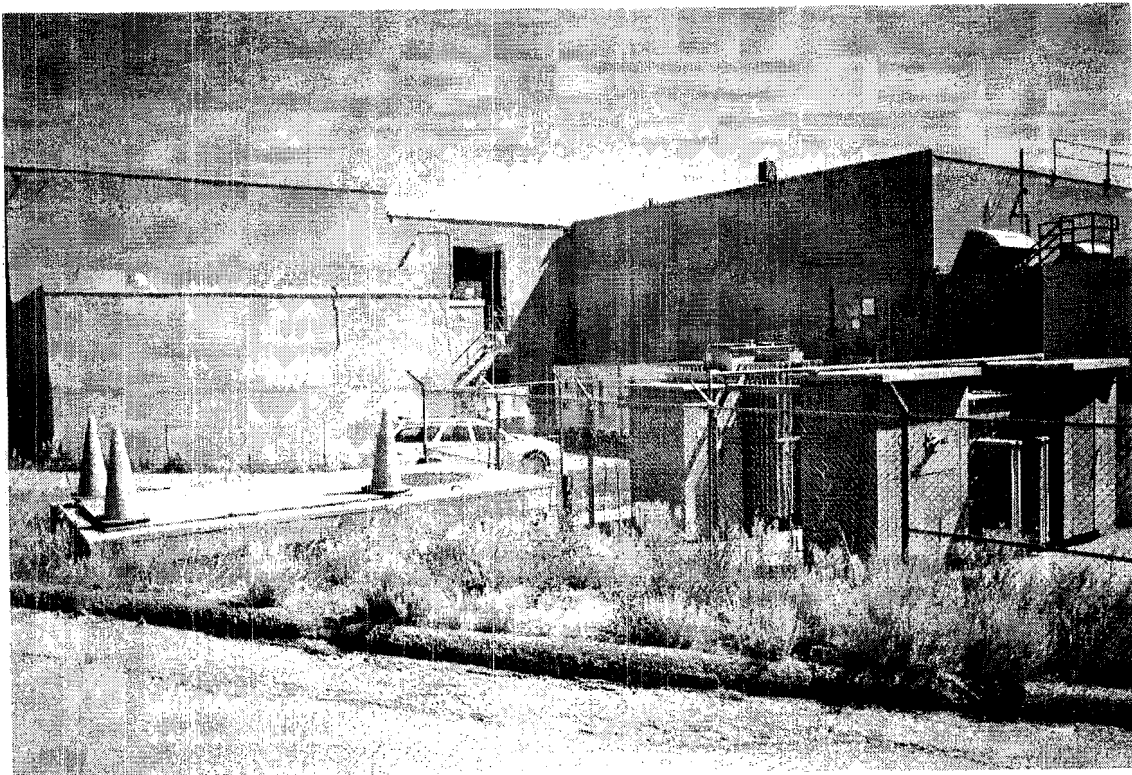
Map X
X



Sherwood Building (TA-3-105)
East View



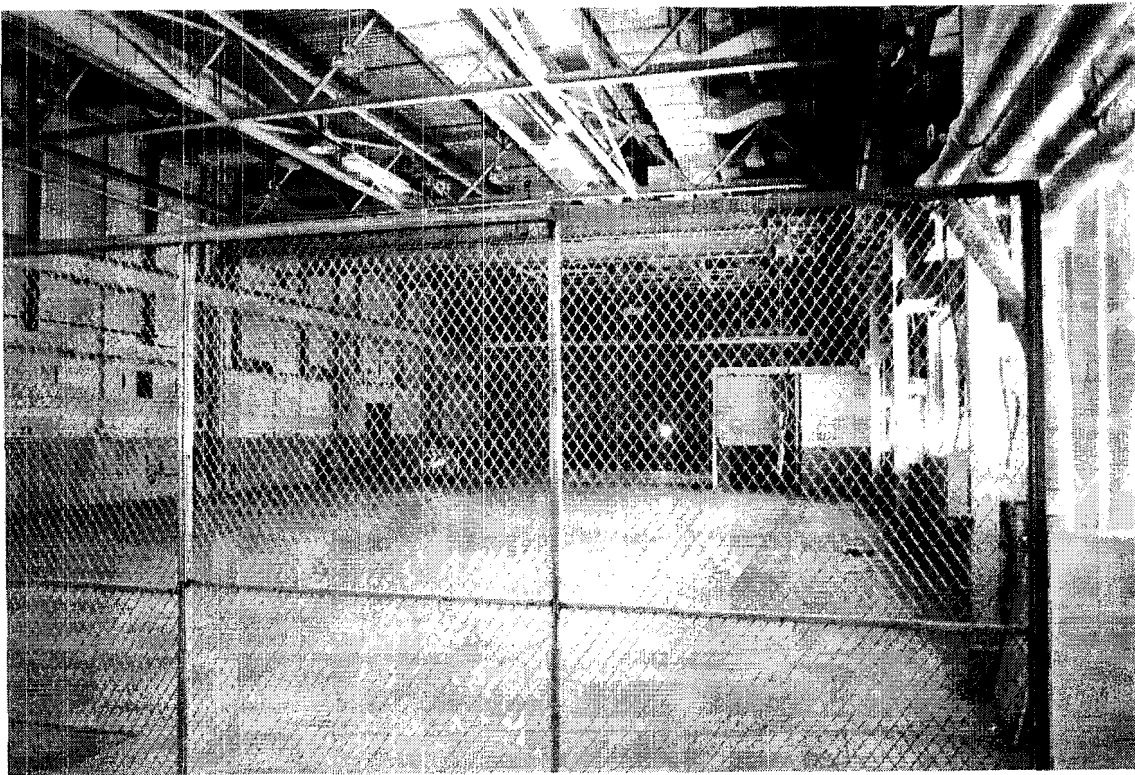
Sherwood Building (TA-3-105)
NE View



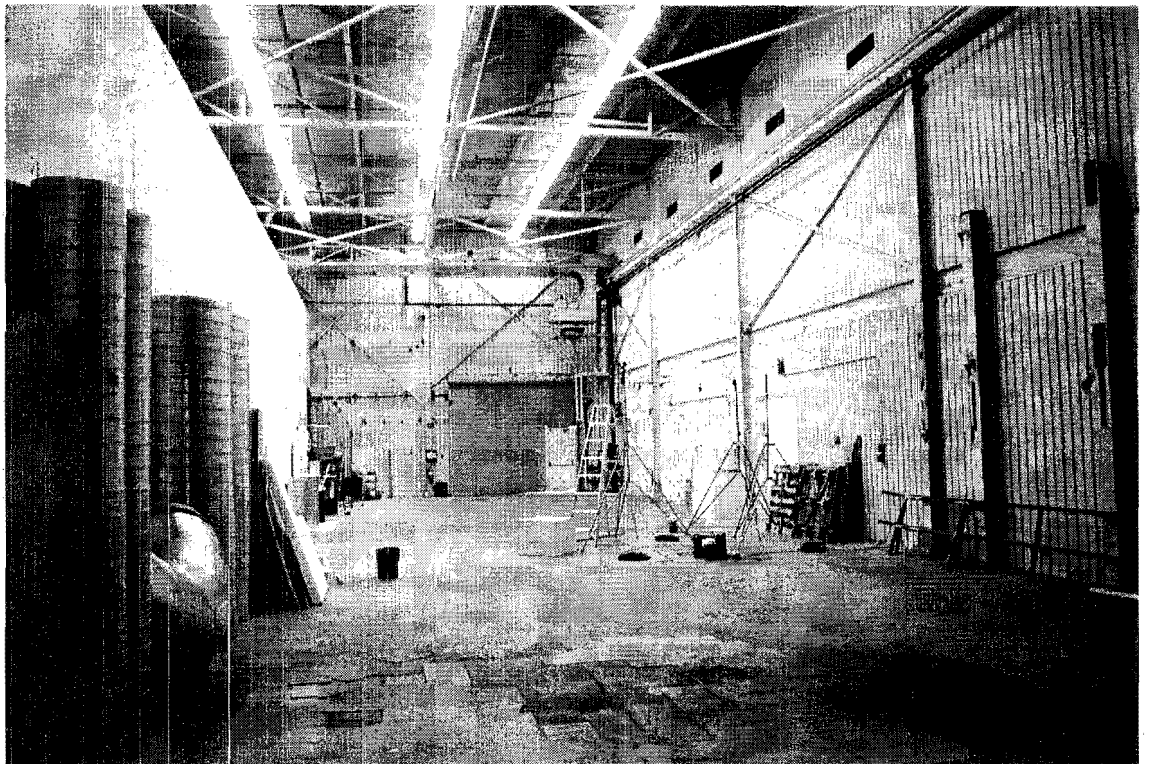
Sherwood Building (TA-3-105)
NE View



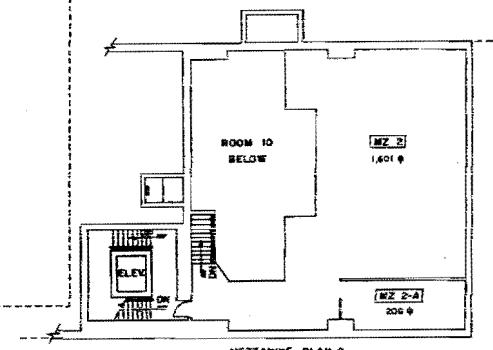
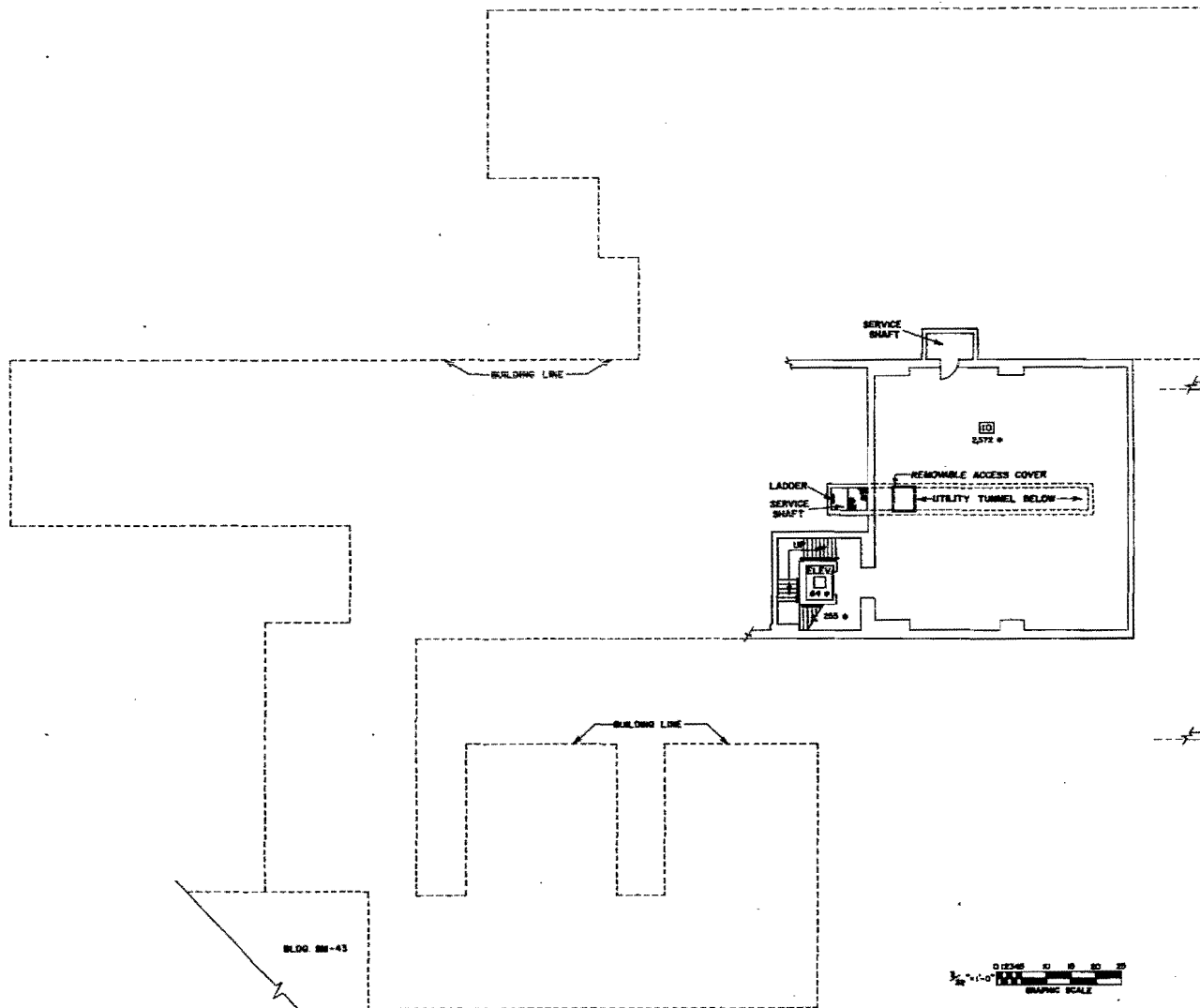
Sherwood Building (TA-3-105)
North View



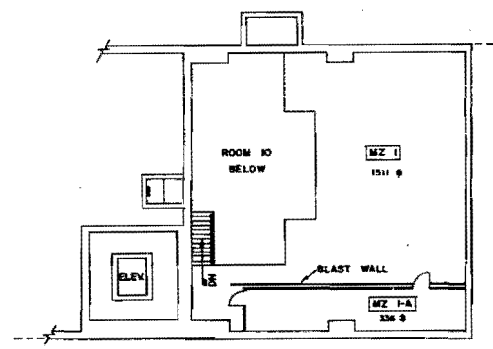
Sherwood Building (TA-3-105)
Main East Bay



Sherwood Building (TA-3-105)
Main West Bay

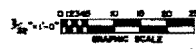


MEZZANINE PLAN 2



MEZZANINE PLAN 1

BLDG. SM-43

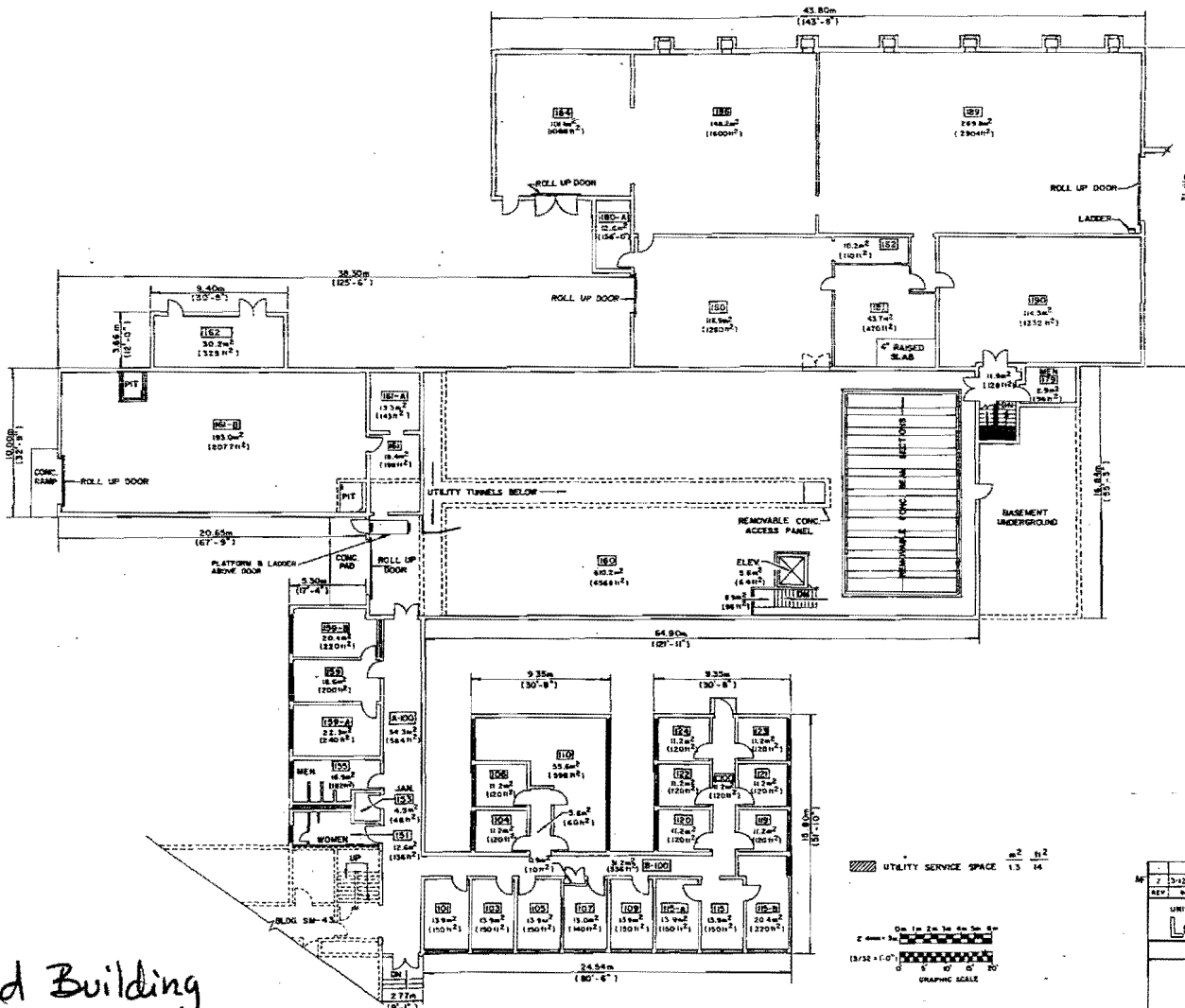


Sherwood Building
TA-3-105

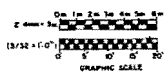
BASEMENT	2,891
MEZZANINE 1	1,047
MEZZANINE 2	1,809
TOTAL SQ. FT.	5,747

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2 7-10-75	RESTORED TO STATUS OF 7-10-75	BY: [Signature]
1 7-10-75	REVISIONS	BY: [Signature]
THIS JOB MUST BE INSPECTED AND ANY CHANGES APPROVED BY: [Signature]		
LOS ALAMOS SCIENTIFIC LABORATORY		
ENGINEERING DEPARTMENT		
UNIVERSITY OF CALIFORNIA - LOS ALAMOS, NEW MEXICO		
DATE CLASSIFIED:	TITLE: <u>TA-3</u>	
AUTHORIZED FOR:		
SHERWOOD BUILDING		
BASEMENT FLOOR PLAN		
BLDG. SM-105		TA-3
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DESIGNED: [Signature]	DATE: [Signature]	
CHECKED: [Signature]	DATE: [Signature]	
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DATE: [Signature]	DATE: [Signature]	

Sherwood Building
 - TA-3-105

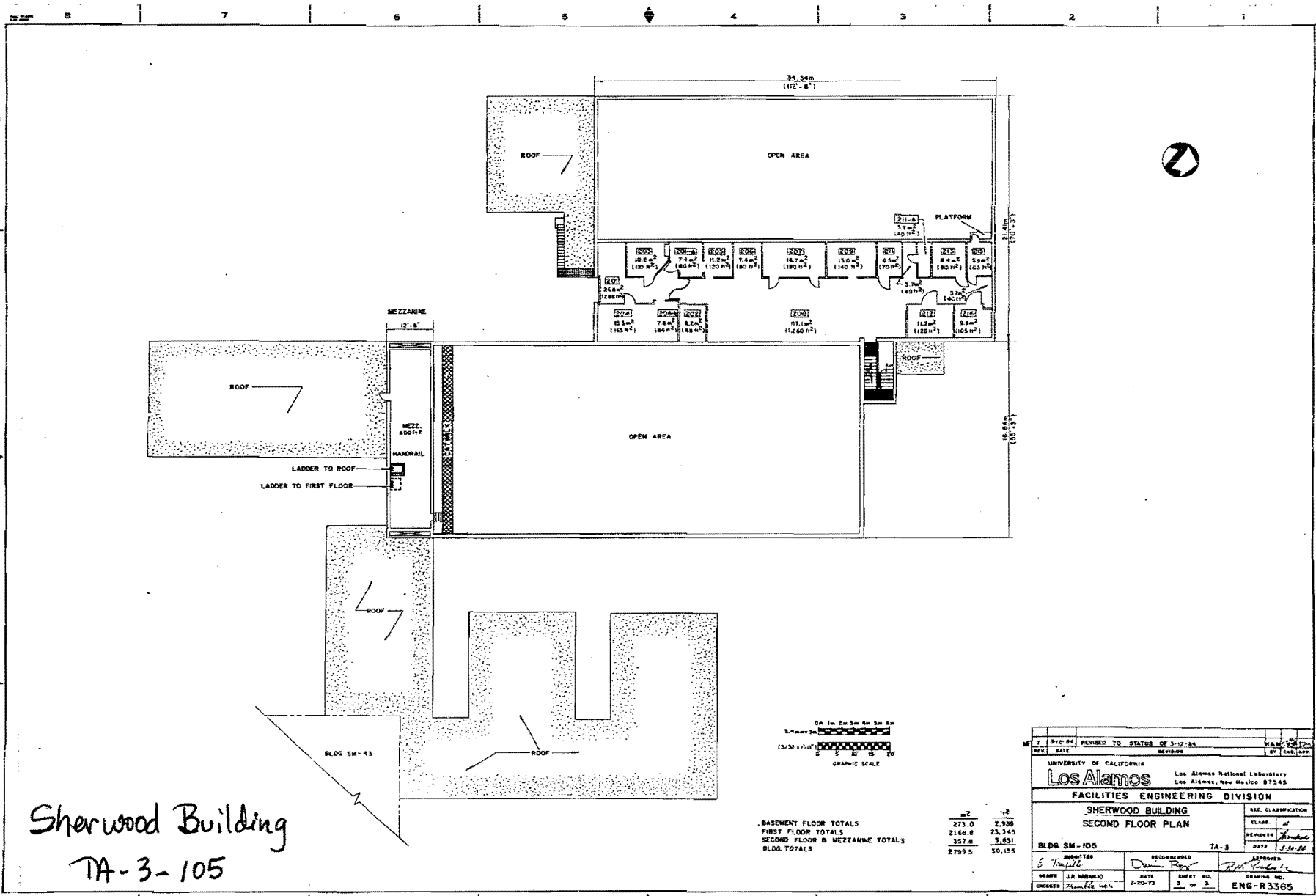


UTILITY SERVICE SPACE $\frac{m^2}{ft^2}$ 1.5 / 16



FIRST FLOOR TOTALS $\frac{m^2}{ft^2}$ 2168.9 / 23,343

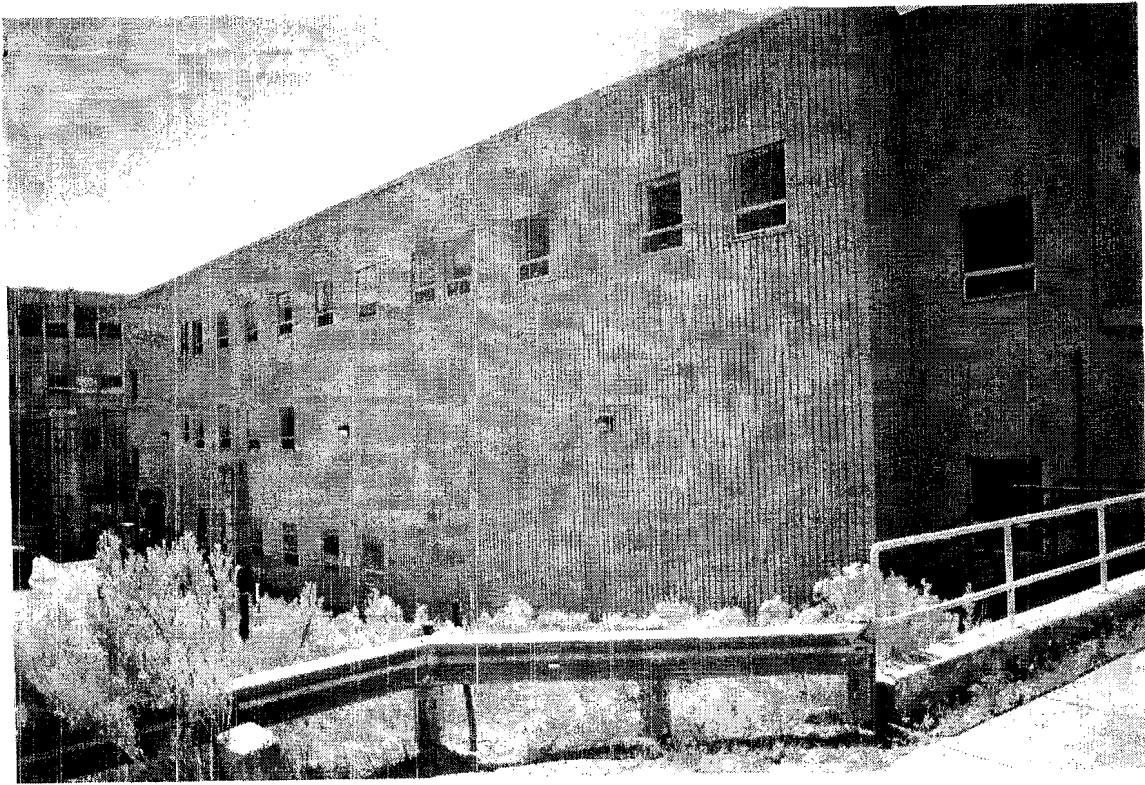
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REV	DATE	REVISION	BY
UNIVERSITY OF CALIFORNIA		Los Alamos National Laboratory Los Alamos, New Mexico 87545	
FACILITIES ENGINEERING DIVISION			
SHERWOOD BUILDING		SEC. CLASSIFICATION	
FIRST FLOOR PLAN		CLASS <i>cc</i>	
BLDG. SM - 105		DATE <i>11-20-84</i>	
SUBMITTED		RECOMMENDED	
<i>G. Tinsell</i>		<i>Dennis Foy</i>	
APPROVED		APPROVED	
<i>R. A. ...</i>		<i>R. A. ...</i>	
DRW	J.R. NABARNO	DATE	8-9-73
CHECKED	<i>[Signature]</i>	SHEET NO.	2 OF 3
		DRAWING NO. ENG-R3364	



Sherwood Building
TA-3-105

	m ²	ft ²
BASEMENT FLOOR TOTALS	273.0	2,939
FIRST FLOOR TOTALS	2168.8	23,345
SECOND FLOOR & MEZZANINE TOTALS	357.8	3,831
BLDG. TOTALS	2799.5	30,115

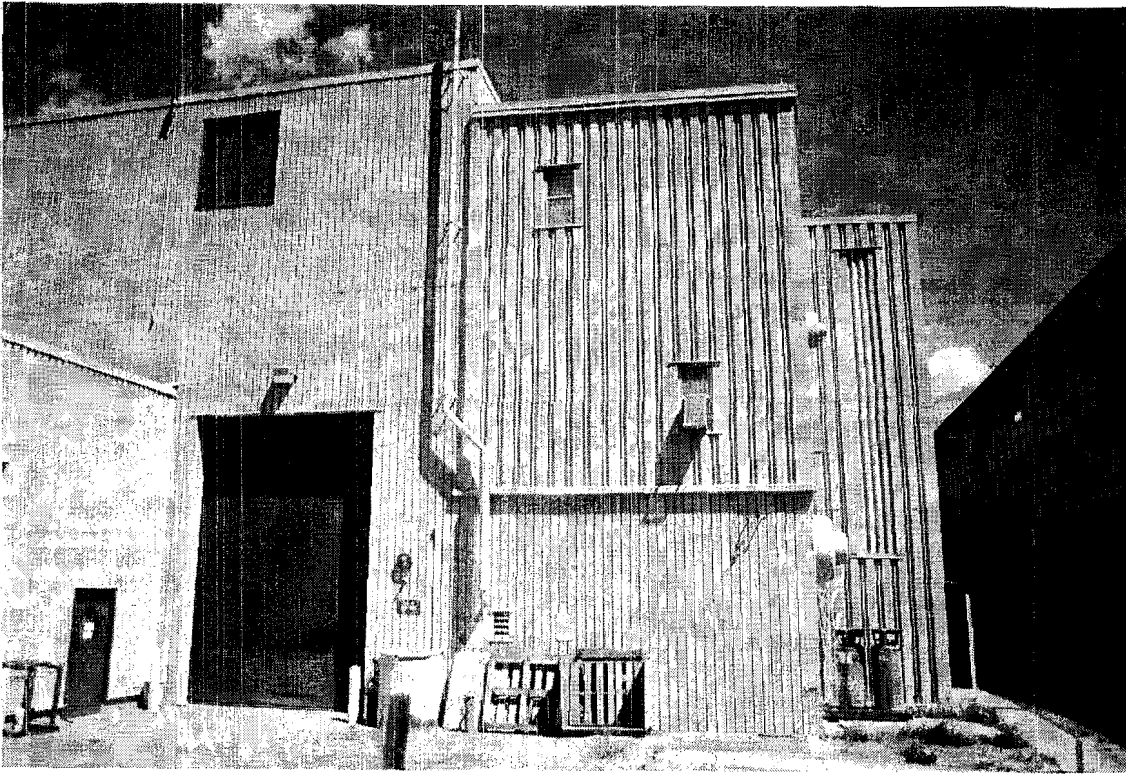
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UNIVERSITY OF CALIFORNIA				
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545		
FACILITIES ENGINEERING DIVISION				
SHERWOOD BUILDING			SEC. CLASSIFICATION	
SECOND FLOOR PLAN			CLASS	
			REVIEWER	
			DATE	
BLDG. SM - 105			TA-3	
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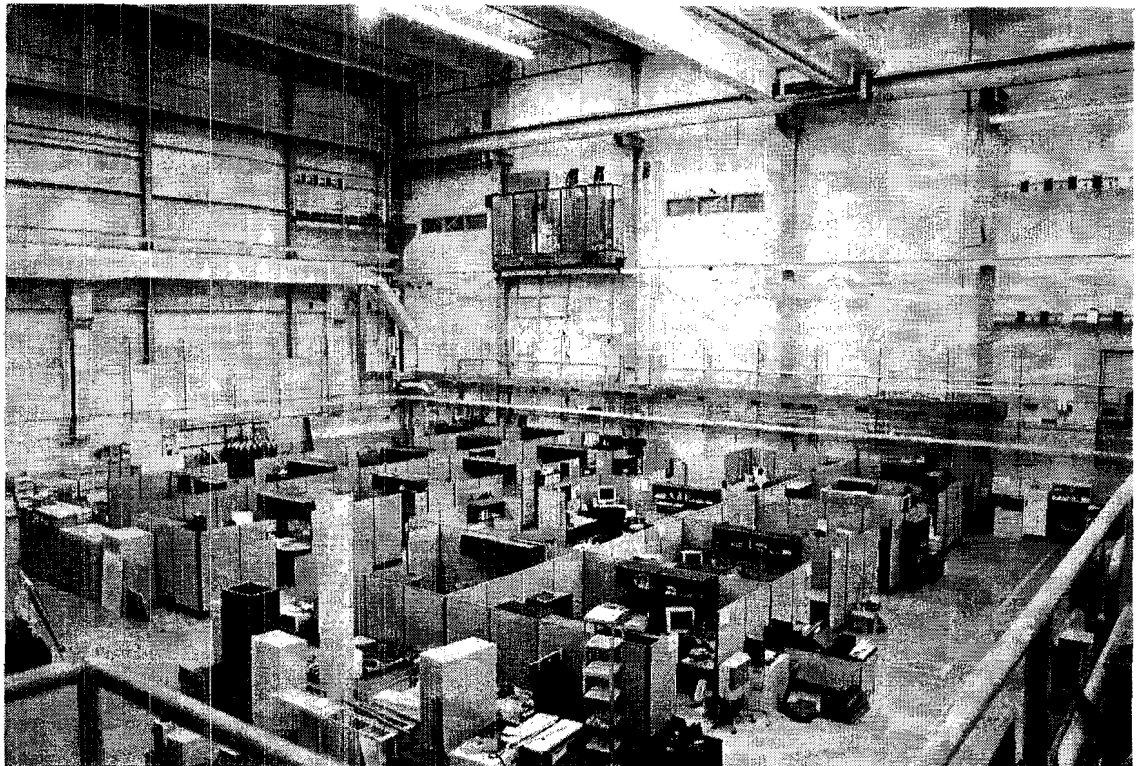
Scyllac Building (TA-3-287)
SE view



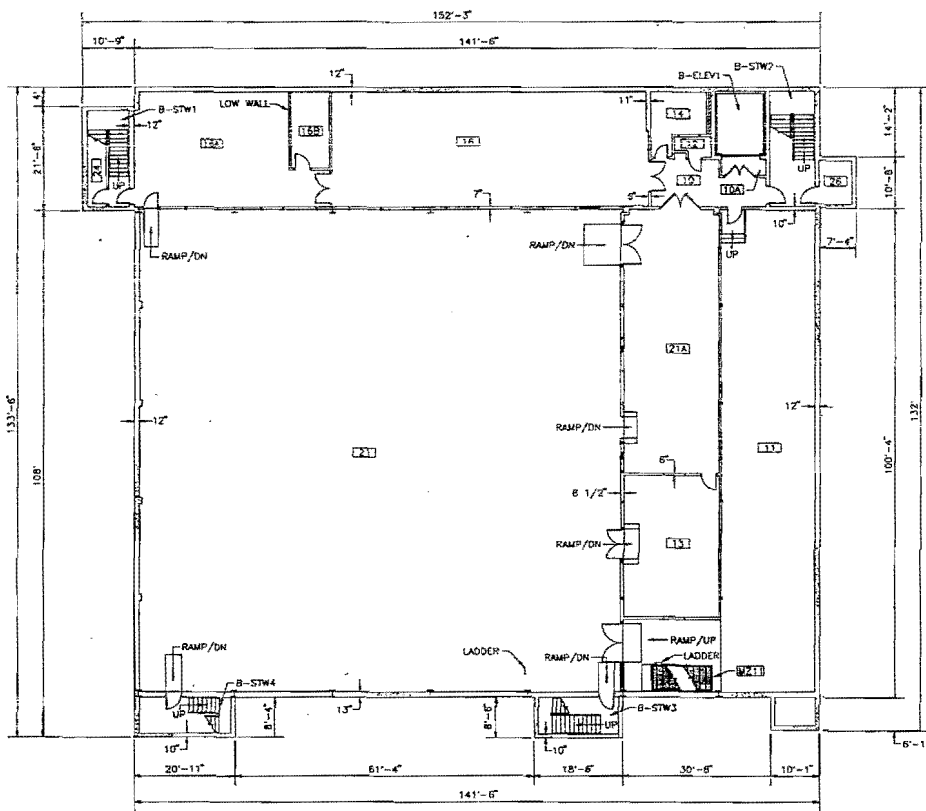
Scyllac Building (TA-3-287)
South view



Scyllac Building (TA-3-287)
North View



Scyllac Building (TA-3-287)
Main Bay



ROOM INFORMATION CHART	
ROOM NUMBER	ROOM NET SQUARE FOOTAGE
10	214
10A	59
11	2249
W211	80
12	35
13	608
14	140
15	140
16	1575
16A	445
16B	151
17	845
21A	2886
21B	1108
21C	85
21D	84
UTILITY	17
B-ELEV1	152
B-STW1	152
B-STW2	239
B-STW3	152
B-STW4	152
B-STW5	152

TOTAL ROOM NET SQUARE FOOTAGE = 17,833
 GROSS SQUARE FOOTAGE = 18,345

LEGEND

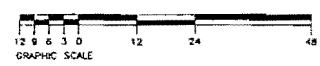
- CONCRETE
- UTILITY SPACE
- LOUVER
- METAL STUD
- WINDOW
- 1 BEAM

NOTES

1. ALL INTERIOR WALLS ARE 5 1/2" THICK UNLESS OTHERWISE NOTED.
2. REFERENCE DRAWINGS ENG-C68410 AND ENG-R1902
3. ROOM NET SQUARE FOOTAGE IS COMPILED BY MEASURING FROM THE INSIDE FACE OF THE EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS.
4. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING DECKINGS (SUCH AS ATTIC SPACES) HAVING 6 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT, ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.

BASEMENT FLOOR PLAN

SCALE: 3/32" = 1'-0"

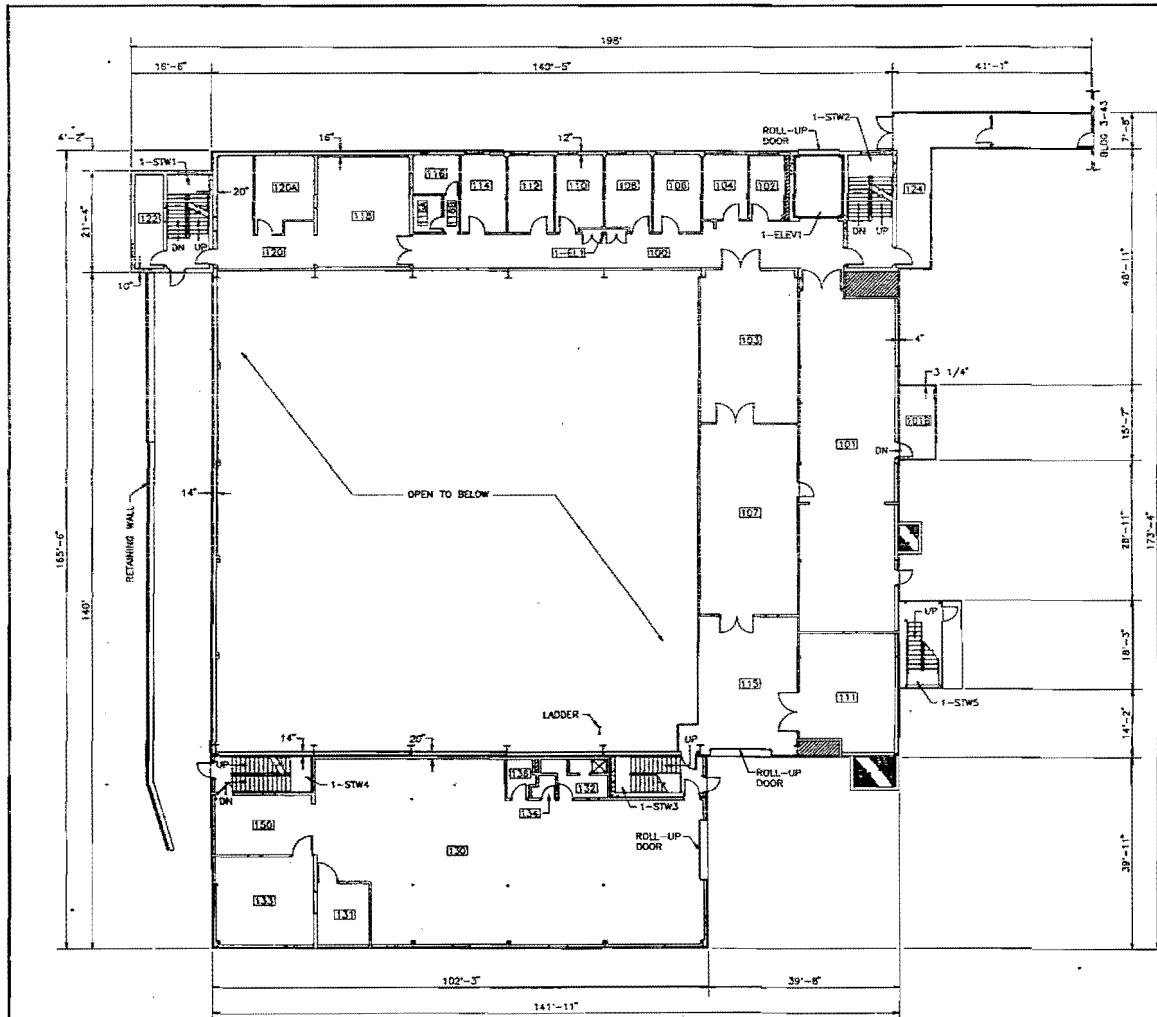


Scyllac Building TA-3-287

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DESIGNED	BY	CHECKED	BY	APPROVED	BY	DATE	08-10-93	DATE	08-10-93	DATE
Los Alamos										
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PROJECT ID	7556	PROJECT ID	7556	PROJECT ID	7556	PROJECT ID	7556	PROJECT ID	7556	PROJECT ID
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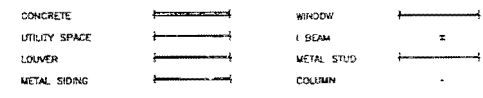
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ROOM INFORMATION CHART	
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102	102
103	653
104	132
105	153
106	419
107	187
108	182
109	184
110	153
111	153
112	153
113	153
114	153
115	153
116	153
117	153
118	153
119	153
120	153
120A	189
121	153
122	153
123	153
124	153
1-ELV1	10
1-ELV2	10
1-ELV3	10
1-ELV4	10
1-ELV5	10
1-ELV6	10
1-ELV7	10
1-ELV8	10
1-ELV9	10
1-ELV10	10
1-ELV11	10
1-ELV12	10
1-ELV13	10
1-ELV14	10
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1-ELV93	10
1-ELV94	10
1-ELV95	10
1-ELV96	10
1-ELV97	10
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1-ELV99	10
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TOTAL ROOM NET SQUARE FOOTAGE = 12,613
 GROSS SQUARE FOOTAGE = 23,014

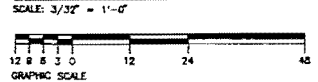
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NOTES

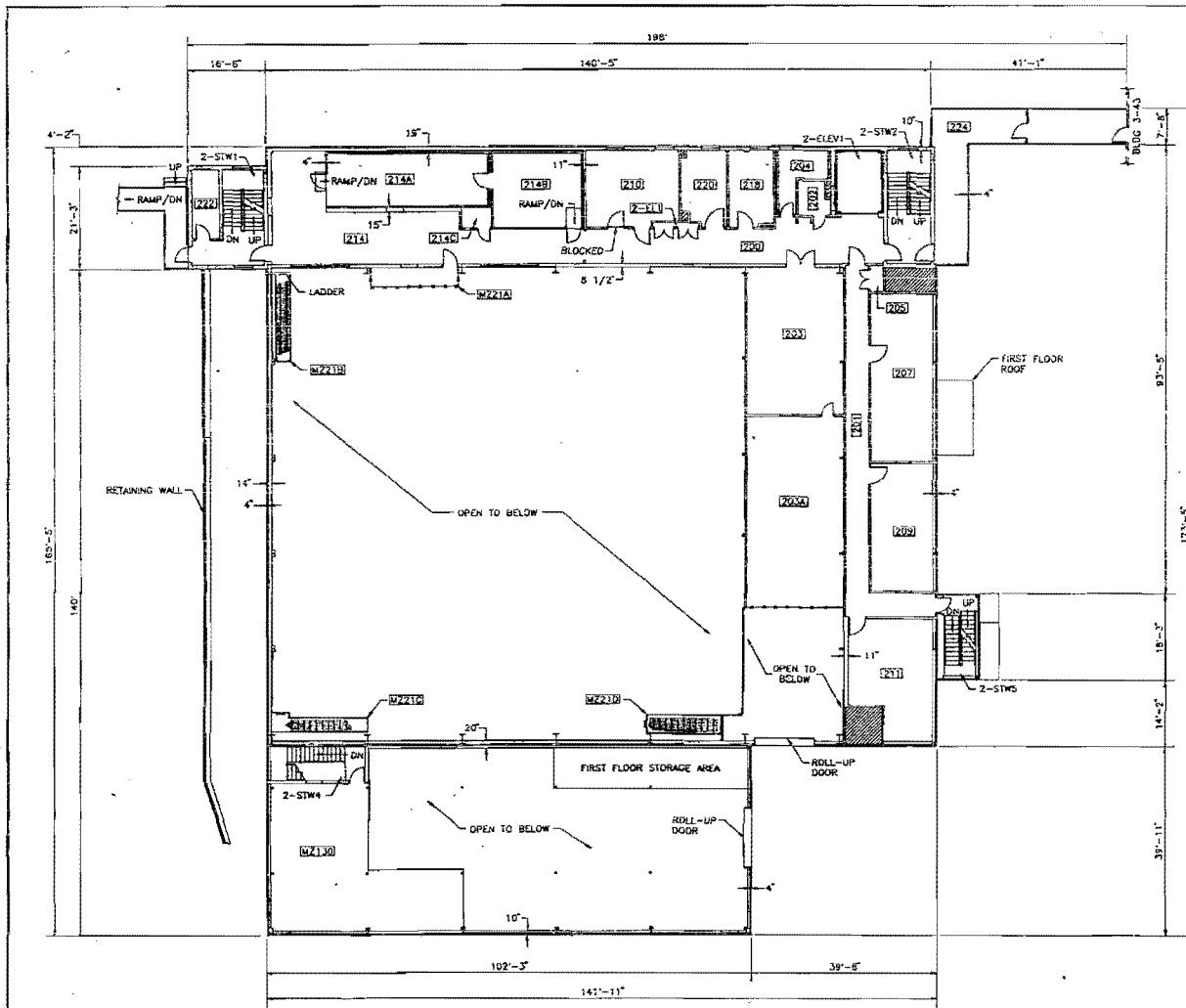
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- REFERENCE DRAWINGS ENG-C68436, C68411, AND ENG-R1903
- ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF THE EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS.
- GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLDSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT, ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA. ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.

FIRST FLOOR PLAN



Scyllac Building
 TA-3-287

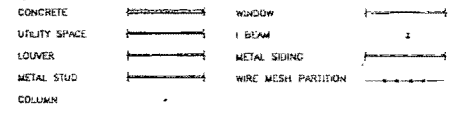
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AS-BUILT RECORD FLOOR PLAN LAB/OFFICE BLDG ARCH. FIRST FLOOR PLAN											
RDC 287 SUBMITTED BY: JERRY FORD RECOMMENDED BY: JERRY FORD APPROVED BY: JERRY FORD DATE: 08-10-83											
Los Alamos											
CLASSIFICATION: UNCLASSIFIED PROJECT ID: 7556 DRAWING NO: AB175											



ROOM NUMBER	ROOM NET SQUARE FOOTAGE
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201	274
202	85
203	84
203A	844
204	97
205	150
207	502
209	154
210	320
211	455
212	391
213	391
214	384
214A	384
215	391
218	157
219	150
222	88
223	272
M221A	60
M221B	60
M221C	60
M221D	66
2-STW1	227
2-STW2	244
2-STW3	171
2-STW4	160
2-ELV	19
UTILITY	132
2-ELEV1	131

TOTAL ROOM NET SQUARE FOOTAGE = 9,142
 GROSS SQUARE FOOTAGE = 22,889

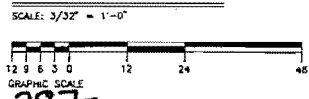
LEGEND



NOTES

- ALL INTERIOR WALLS ARE 5 1/2" THICK UNLESS OTHERWISE NOTED.
- REFERENCE DRAWINGS ENG-C68412 AND ENG-N1904
- ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF THE EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS.
- GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MIZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT, ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.

SECOND FLOOR PLAN



Scyllac Building TA-3-287

NO	DATE	CLASS	REV	REVISIONS	CHK	VER	CHKD	REL	SLAB	REC	APP
JOHNSON CONTROLS WORLD SERVICES INC.											
AS-BUILT RECORD FLOOR PLAN LAB/OFFICE BLDG ARCH: SECOND FLOOR PLAN										DRAWN CHECKED RELEASED	DATE 08-07-83
BUILDING NO. 282 SUBMITTED BY: JERRY FORTA DESIGNED BY: FRED THOMPSON TA-3 APPROVED BY: ERIC THOMPSON											
Los Alamos											
CLASSIFICATION: UNCLASSIFIED PROJECT ID: 7556 DRAWING NO: AB175											

FIELD VERIFIED 07-27-93

ROOM INFORMATION CHART

ROOM NUMBER	ROOM NET SQUARE FOOTAGE
200	1056
201	464
202	18
203	48
204	129
205	148
206	181
207	145
208	155
209	148
210	148
211	148
212	148
213	148
214	148
215	148
216	148
217	148
218	148
219	148
220	194
221	151
222	228
223	452
224	452
225	187
226	784
227	138
228	89
229	150

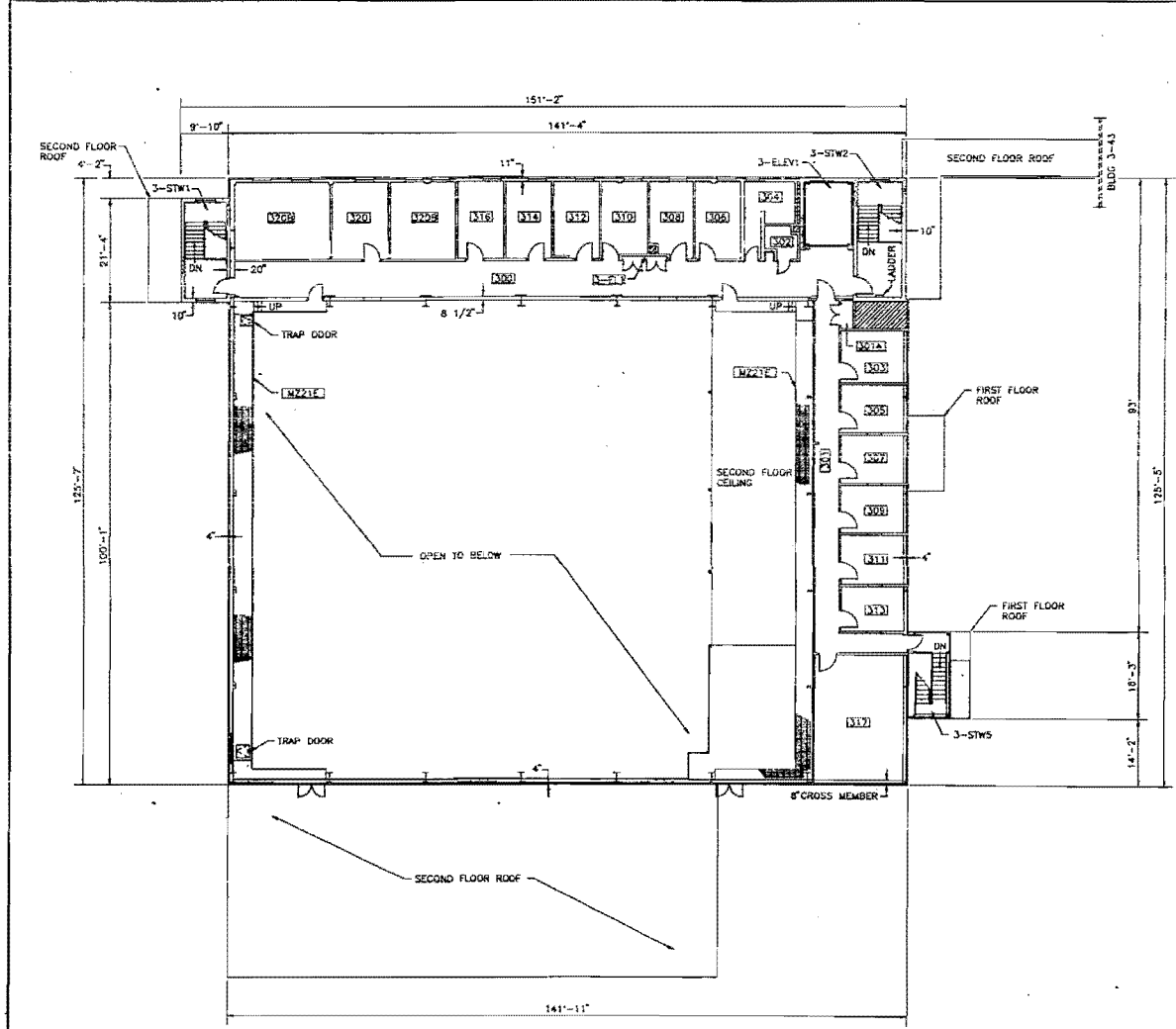
TOTAL ROOM NET SQUARE FOOTAGE = 6,554
 GROSS SQUARE FOOTAGE = 18,172

LEGEND

CONCRETE		1 BEAM	
UTILITY SPACE		METAL SIDING	
METAL STUD		LOUVER	
WINDOW		COLUMN	

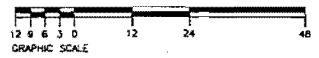
NOTES

- ALL INTERIOR WALLS ARE 5/2" THICK UNLESS OTHERWISE NOTED.
- REFERENCE DRAWINGS ENG-C68413 AND ENG-R1905
- ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF THE EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS.
- GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBLES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILING (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.



THIRD FLOOR PLAN

SCALE: 3/32" = 1'-0"



Scyllac Building
 TA-3-287

NO.		DATE	CLASS.	REVISIONS	OWN.	CHK.	DATE	REL.	SCALE	REC.	APP.
JOHNSON CONTROLS WORLD SERVICES INC.											
AS-BUILT RECORD FLOOR PLAN LAB/OFFICE BLDG ARCH: THIRD FLOOR PLAN											
BLDG 287		TA-3		DATE		REV		NO-10-10			
SUBMITTED		PREPARED		CHECKED		APPROVED		DATE		REV	
JERRY FORTE		JERRY FORTE		JERRY FORTE		JERRY FORTE		10/26/10		10/26/10	
Los Alamos											
CLASSIFICATION		REVISION		DATE		SHEET		4		4	
PROJECT ID		7556		AB175		DATE		10/26/10		REV	

FIELD VERIFIED 07-27-93

