APR 29 1980

MEMORANDUM FOR: Vandy L. Miller, Chief, Materials Licensing Branch, NMSS

FROM: Hilbert W. Crocker, Acting Chief, Materials Radiological Protection Section, FF&MS Branch, Region I

SUBJECT: ISOMEDIX, INC. PARSIPPANY, NEW JERSEY, LICENSE NO. 29-15364-01

By their letter dated February 4, 1980, the subject licensee requested permission to release for unrestricted use, a portion of their facility which they are being forced to leave as a result of changes in their lease. The portion to be released previously contained a pool irradiator, hot cells and deep storage tubes. There is residual radioactive contamination in the area to be released which is described in the survey report accompanying their February 4, 1980 letter.

On February 14, 1980, our inspector verified by independent survey and wipe testing that the deep storage tubes had been decontaminated to a point where the contamination levels in these tubes were below those determined by the licensee's own measurements.

On March 28, 1980, Isomedix, Incorporated submitted to you a radiological close out survey for that portion of the facility which is to be released for unrestricted use. On April 2, 1980, an inspector from this office performed a verification survey at the facility in question.

The survey was performed with a Ludlum Model 3 G-M Survey meter with an end window probe. The wipe test evaluation was performed with a low background gas flow proportional counter located in the Region I office laboratory in King of Prussia, Pennsylvania.

The survey done by our inspector generally confirms the survey done by the licensee's health physics consultant. The inspector's survey sampled approximately 60% of the licensee's evaluation and in most instances obtained lower readings than those reported. There were three areas identified by our inspector as not being in agreement with the licensee's results. One of those areas is located slightly beyond grid #12 in area "T". A reading of 0.25 mR/hr was observed at a point approximately 12 inches below ground level where a metal girder projected from the side of the trench. This area is to be filled in with concrete prior to release for unrestricted use. The other two areas identified by our inspector were not part of the final close out survey performed by the licensee. These areas were found to be on either side of area "T" as it enters the external pool (area "EP"). These areas were found to actually be in the soil. Surface measurements at one centimeter indicated maximum readings of 0.5 mR/hr on one side and 7.0 mR/hr on the other. The enclosed floor plan identifies

8507200380 850510
PDR FOIA
GLOWACK85-111 PDR

OFFICE	FFMS	FFMS	FFMS
SURNAME	Nicolosi/clc	Kinneman	Crocker
DATE	4/28/80	4/29/80	4/29/80

204. Copy

all areas surveyed by our inspector. Based on the calibration with a known Co-60 standard, it was determined that for the survey meter used, a reading of 0.02 milliroentgen/hour above background at one centimeter represents approximately 1500 dpm/100 cm^2.

Representative wipes taken yielded the following results:

Area	DPM/100 cm^2
EP (soil)	1140
EP (soil)	1666
EP-17	64
EP-36	37
K-70	6
L-42	187
M-6	166
M-20	106
M-24	10
M-25	55
N-69	33
N-126	1226
N-145	65
N-211	73
P-8	112
P-76	54
Q-3	183
R-259	2508
S-18	214
T-11	17

The efficiency for the gas flow proportional counter for Co-60 was determined to be 0.215. The MDA for the counter is 1.43 pCi.

Isomedix was notified on April 3 and 7, 1980 of the areas which do not conform to the "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use." Their statement to this office was that they will further decontaminate those areas and will submit to you an addendum to their March 28, 1980 report.

Hilbert W. Crocker, Acting Chief
Materials Radiological Protection
Section

OFFICE ►						
SURNAME ►						
DATE ►						

NRC FORM 218 (4-76) NRCM 0240

U.S. NUCLEAR REGULATORY COMMISSION

TELEPHONE OR VERBAL CONVERSATION RECORD

DATE: 5/2/80

TIME: 11:00 ☒ A.M. ☐ P.M.

☐ INCOMING CALL ☒ OUTGOING CALL ☐ VISIT

PERSON CALLING	OFFICE/ADDRESS	PHONE NUMBER / EXTENSION
L.A. O'Reilly		

PERSON CALLED	OFFICE/ADDRESS	PHONE NUMBER / EXTENSION
Jim Nicolosi	Region I	483-1216 415

CONVERSATION

SUBJECT: ~~regards to his inspection 4/2/80 - Licensing~~

SUMMARY:

his final report is in the mail, feels that overall they did a thorough decontamination job and areas of disagreement w/ levels weren't serious and levels contained in 4/9/80 letter were acceptable. Recommends release of facility

REFERRED TO:

☐ ADVISE ME OF ACTION TAKEN.

ACTION REQUESTED

INITIALS

DATE

ACTION TAKEN

INITIALS

DATE

NRC FORM 218 (4-76)

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TELEDYNE ISOTOPES

50 VAN BUREN AVENUE

WESTWOOD, NEW JERSEY 07675

(201) 664-7070 TELEX 13-4474

April 2, 1980

Mr. C. Ronk
Isomedix, Inc.
25 Eastmans Road
Parsippany, NJ 07054

Dear Mr. Ronk

The results of sample analyses are:

	Co-60 (pCi/gm)	Cs-137 (pCi/gm)
No. 1 Next to Pool	1.05 ± 0.11	0.307 ± 0.037
No. 2 In Front of Cl1s	10.2 ± 1.0	0.144 ± 0.069

Sincerely,

J. David Martin

J. David Martin, Manager
Environmental Analysis Department

JDM:al

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WORK HISTORY AREA A (OLD OFFICE SPACE)

1. Informational survey.
2. Wipe down of walls.
3. Removal of carpet.
4. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-6-80 Sheet 1 of 1
Area A

Loose Surface Activity

Meter MS-2 Ser.# 581 ~~206 cpm~~
Cal. Date ok Source Check 206 cpm
Background 250 Corr.Factor 2.65 dpm/cpm
Probe SP2-3

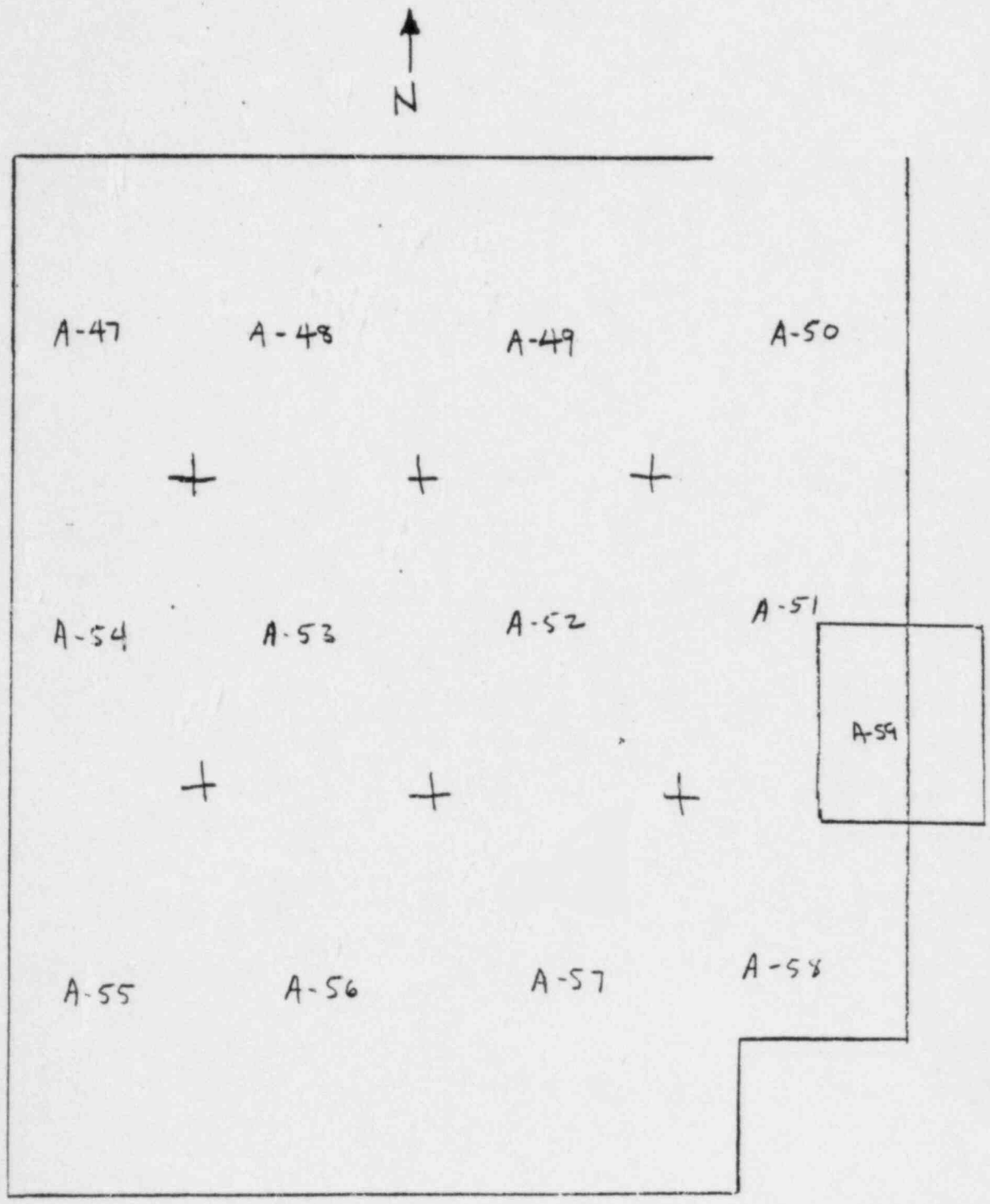
Fixed Activity

Meter EIZO Ser.# 5540
Cal. Date ok Source Ck. ok
Background .03 Probe 44P210

MDA - 450 DPM

Grid Location	Loose Activ. ~~Dime.~~	Fixed Activ. mr/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
A-1	MDA	.16	A-29	MDA	.10	A-57	MDA	.10
A-2	MDA	.10	A-30	MDA	.08	A-58	MDA	.10
A-3	MDA	.16	A-31	MDA	.08	A-59	MDA	.10
A-4	MDA	.14	A-32	462	.10			
A-5	MDA	.14	A-33	MDA	.10			
A-6	MDA	.14	A-34	MDA	.12			
A-7	MDA	.14	A-35	MDA	.12			
A-8	MDA	.14	A-36	MDA	.12			
A-9	MDA	.16	A-37	MDA	.12			
A-10	MDA	.15	A-38	MDA	.12			
A-11	MDA	.13	A-39	MDA	.10			
A-12	MDA	.14	A-40	MDA	.14			
A-13	MDA	.13	A-41	MDA	.12			
A-14	MDA	.13	A-42	MDA	.09			
A-15	MDA	.14	A-43	MDA	.10			
A-16	MDA	.13	A-44	MDA	.12			
A-17	MDA	.10	A-45	MDA	.12			
A-18	MDA	.10	A-46	MDA	.12			
A-19	MDA	.10	A-47	MDA	.12			
A-20	MDA	.10	A-48	MDA	.10			
A-21	MDA	.10	A-49	MDA	.12			
A-22	MDA	.08	A-50	MDA	.12			
A-23	MDA	.08	A-51	MDA	.10			
A-24	MDA	.08	A-52	MDA	.10			
A-25	MDA	.08	A-53	MDA	.10			
A-26	MDA	.09	A-54	MDA	.10			
A-27	MDA	.10	A-55	MDA	.08			
A-28	MDA	.10	A-56	MDA	.12			

Surveyed by: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A-47
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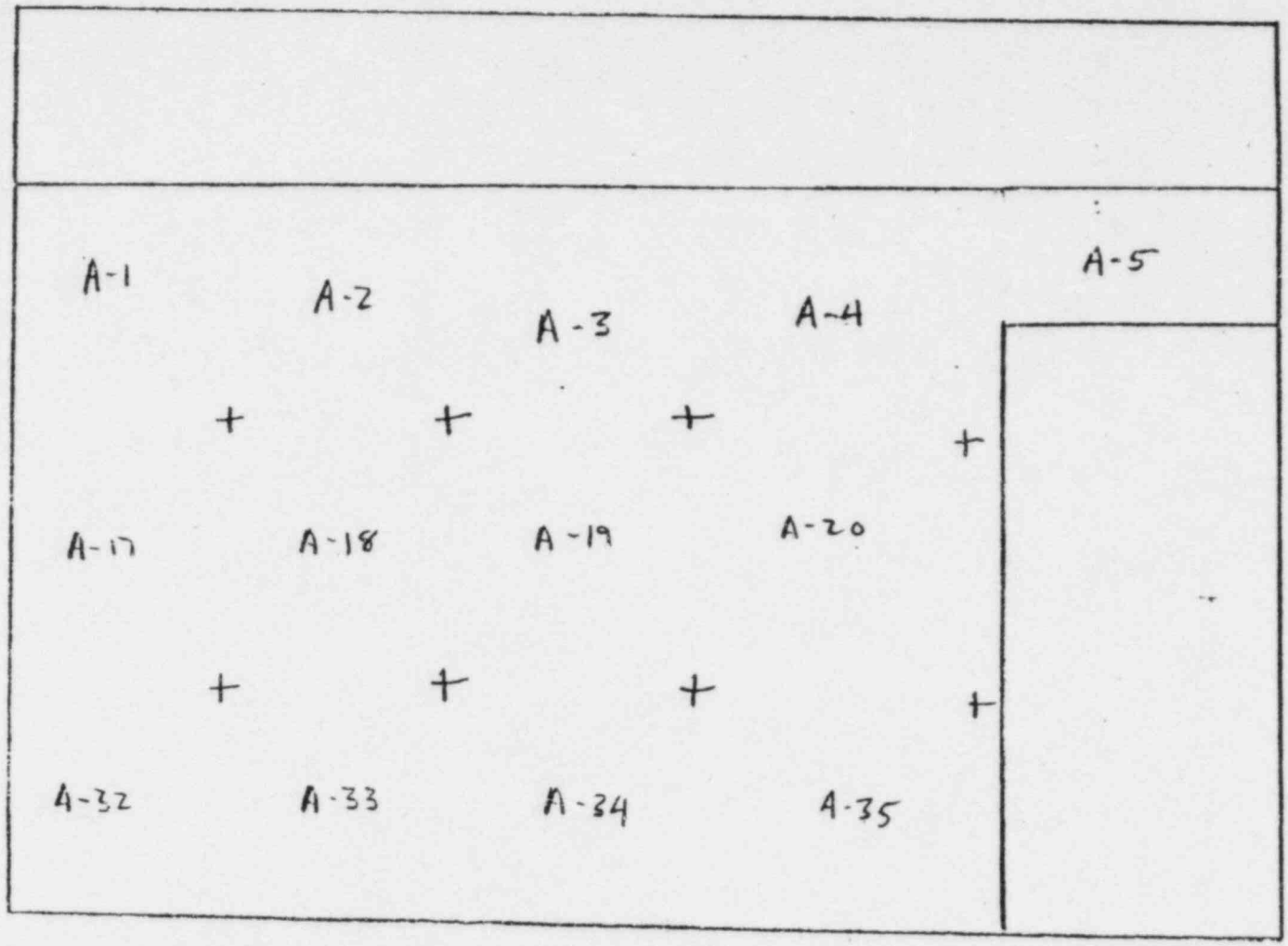
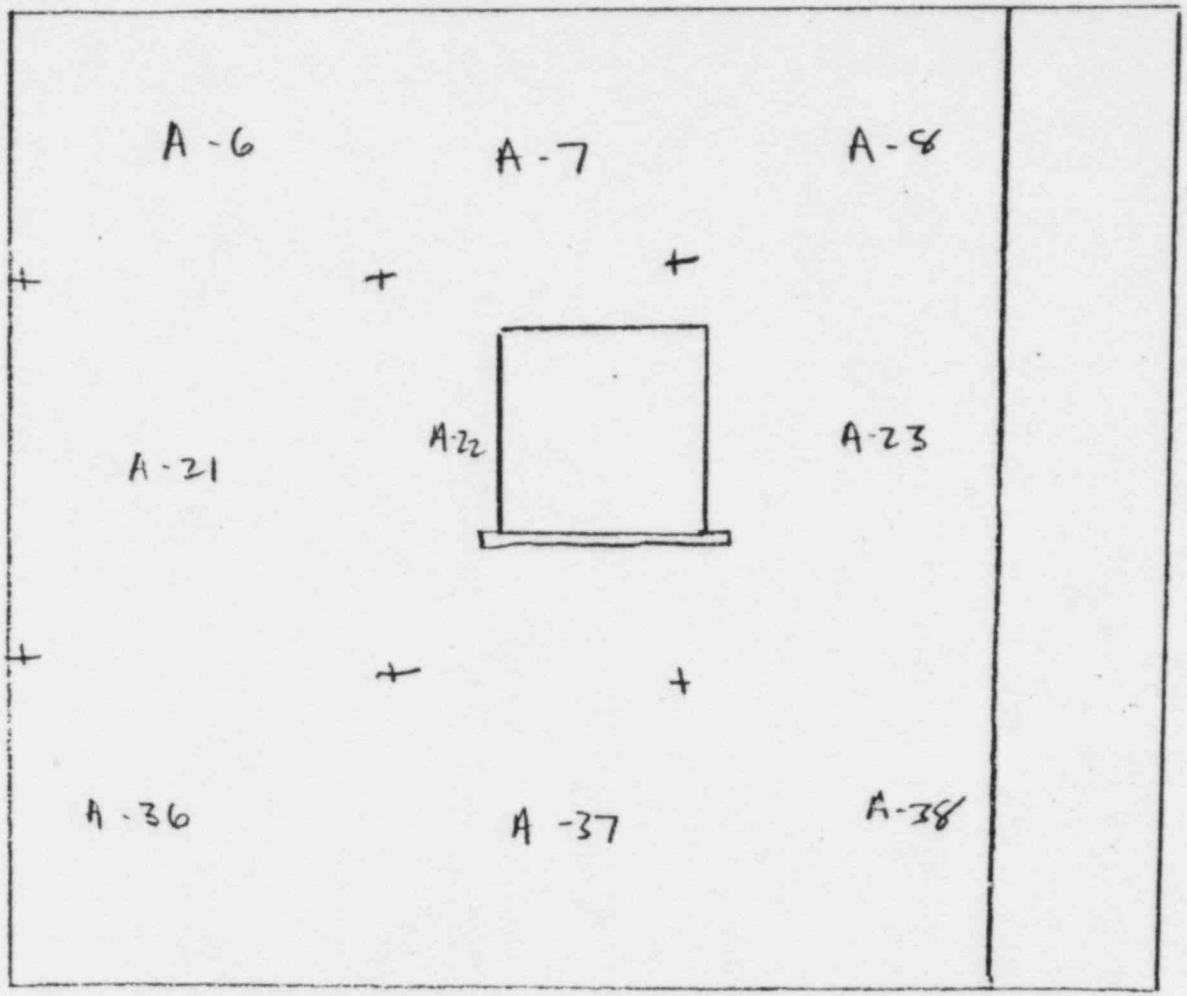
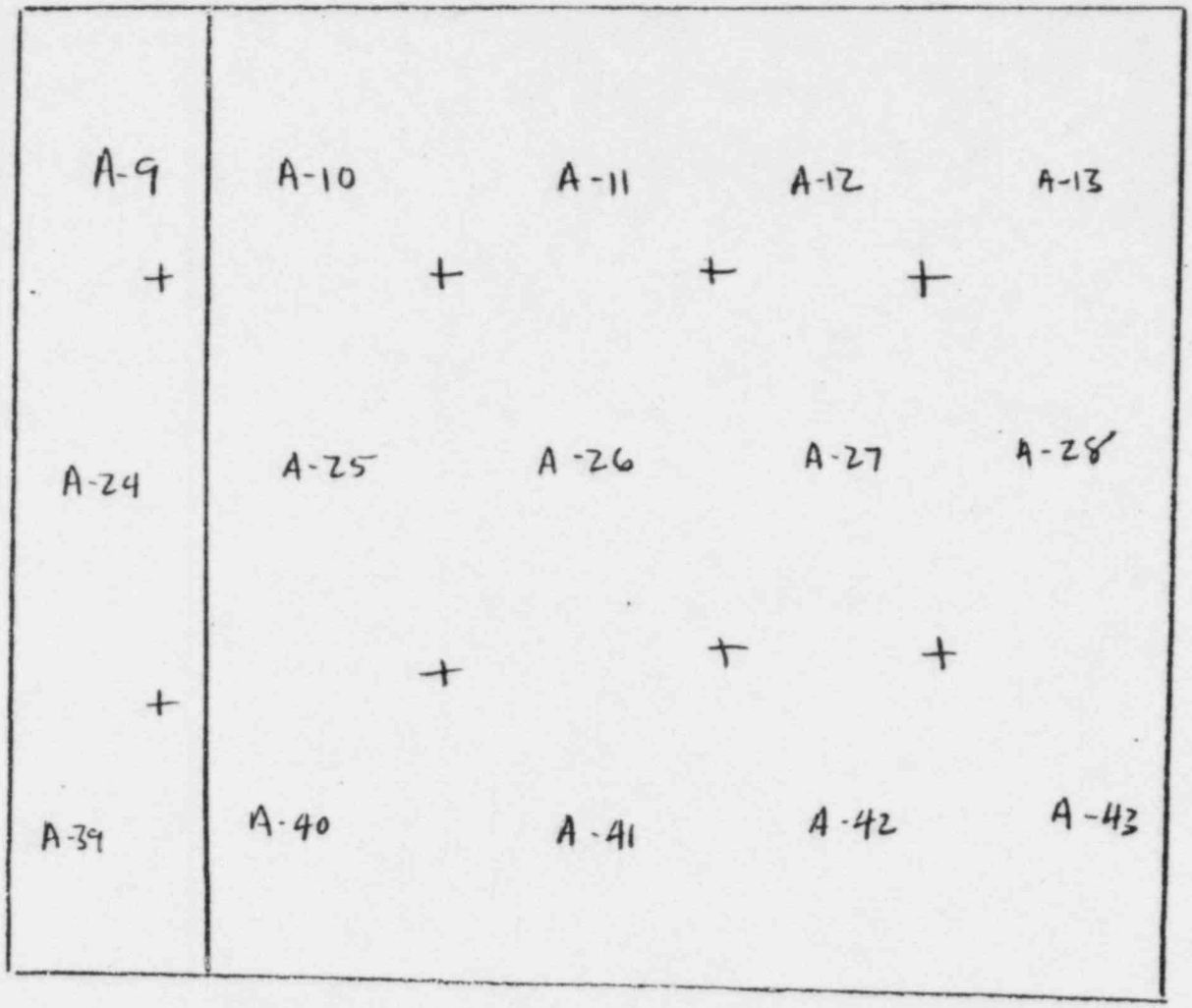
NORTH WALL AREA A



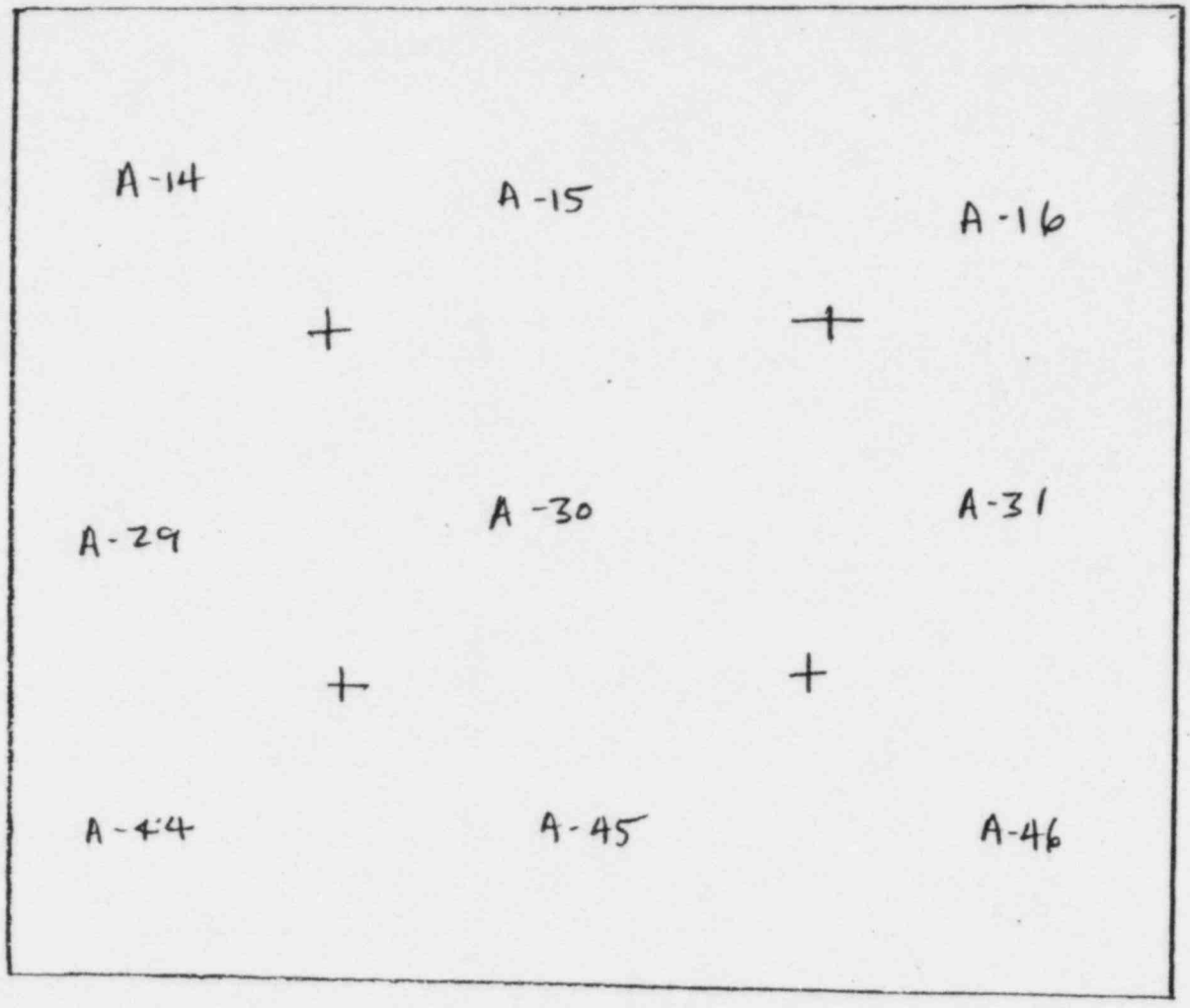
EAST WALL AREA A



SOUTH WALL AREA A



WEST WALL AREA A



WORK HISTORY OF AREA B (OLD OFFICE)

1. Informational survey.
2. Wipe down of walls.
3. Removal of Carpet.
4. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date MARCH 6, 1980 Sheet 1 of 1
Area B

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ok Source Check 158 cpm
Background 67 cpm Corr.Factor 15.55 DPM/CPM
Probe 44P210

Fixed Activity

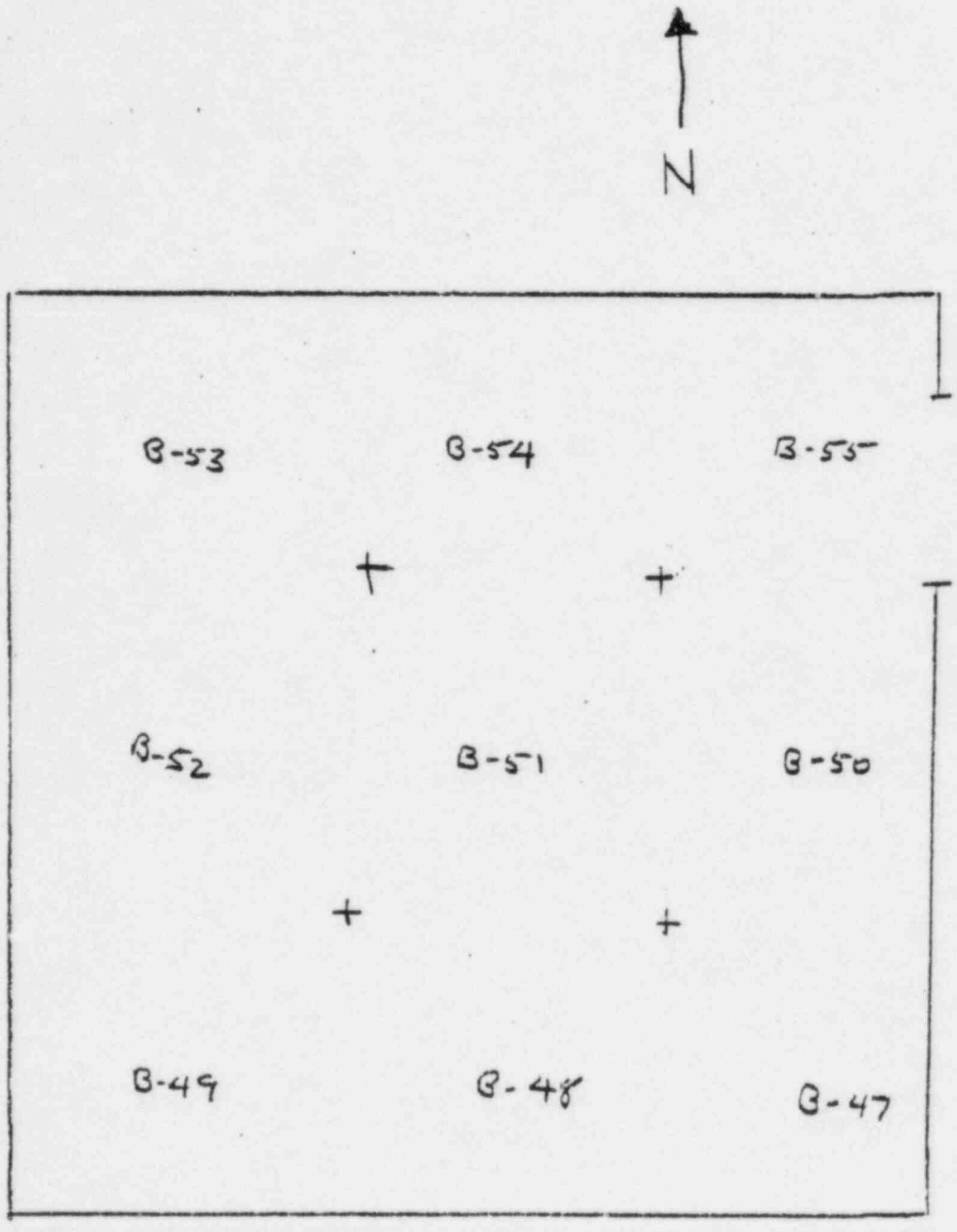
Meter E120 Ser.# 5340
Cal. Date ok Source Ck. ok
Background .08 Probe 44P210

MDA = 301 DPM

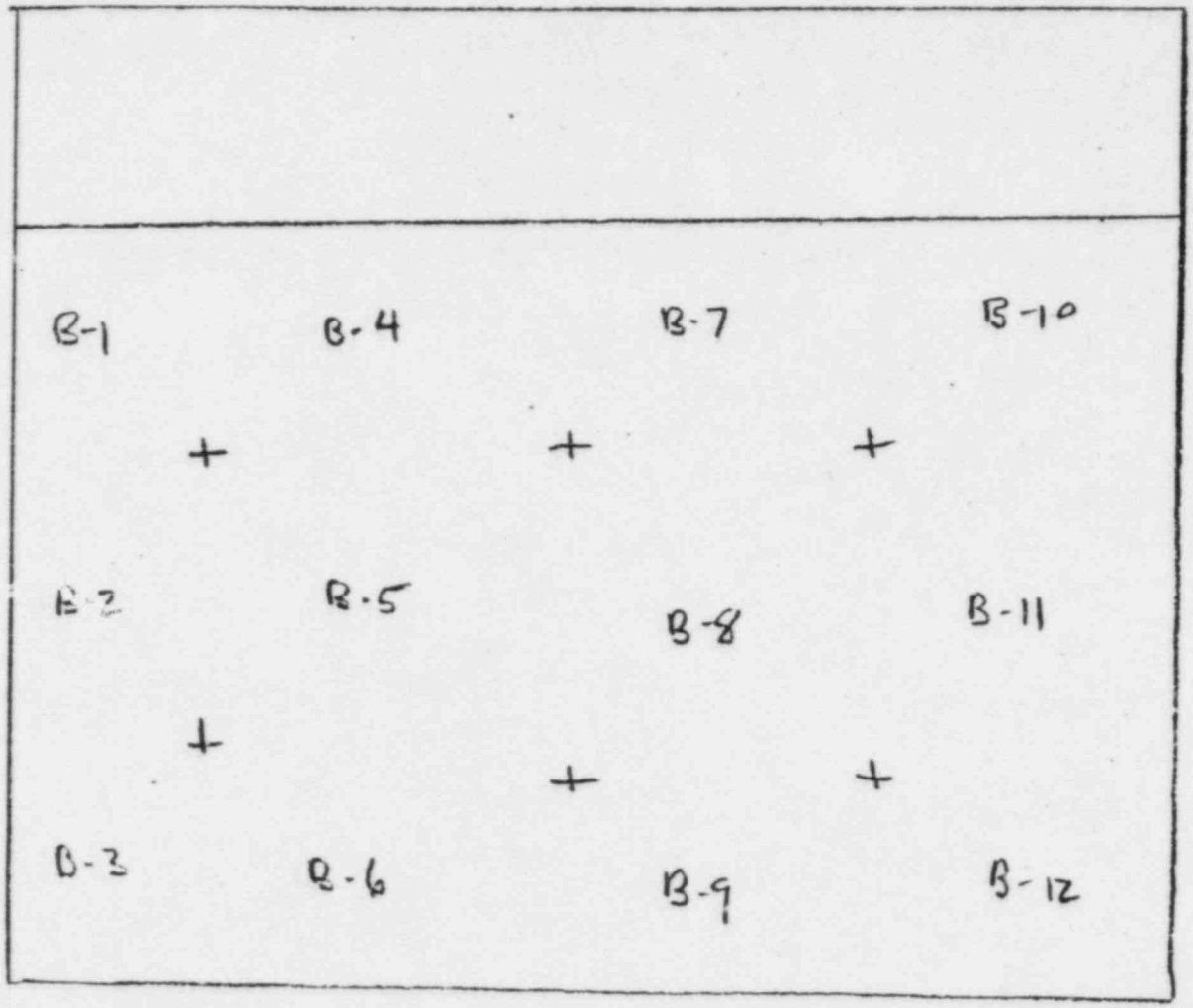
Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. mR/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
B-1	317	.10	B-29	MDA	.10			
B-2	MDA	.12	B-30	MDA	.11			
B-3	301	.08	B-31	MDA	.12			
B-4	MDA	.10	B-32	MDA	.10			
B-5	MDA	.10	B-33	MDA	.09			
B-6	MDA	.09	B-34	MDA	.11			
B-7	MDA	.09	B-35	MDA	.08			
B-8	MDA	.12	B-36	MDA	.12			
B-9	MDA	.10	B-37	MDA	.10			
B-10	MDA	.09	B-38	MDA	.08			
B-11	MDA	.11	B-39	MDA	.10			
B-12	MDA	.12	B-40	MDA	.09			
B-13	MDA	.10	B-41	MDA	.10			
B-14	MDA	.10	B-42	MDA	.10			
B-15	MDA	.10	B-43	MDA	.10			
B-16	MDA	.10	B-44	MDA	.08			
B-17	MDA	.10	B-45	MDA	.10			
B-18	MDA	.12	B-46	MDA	.10			
B-19	MDA	.12	B-47	MDA	.12			
B-20	301	.10	B-48	MDA	.10			
B-21	MDA	.12	B-49	MDA	.13			
B-22	MDA	.10	B-50	349	.14			
B-23	MDA	.08	B-51	MDA	.14			
B-24	MDA	.10	B-52	MDA	.14			
B-25	MDA	.10	B-53	MDA	.14			
B-26	MDA	.08	B-54	MDA	.14			
B-27	MDA	.10	B-55	MDA	.10			
B-28	MDA	.09						

Surveyed by:

CORE OF AREA B



NORTH WALL AREA B



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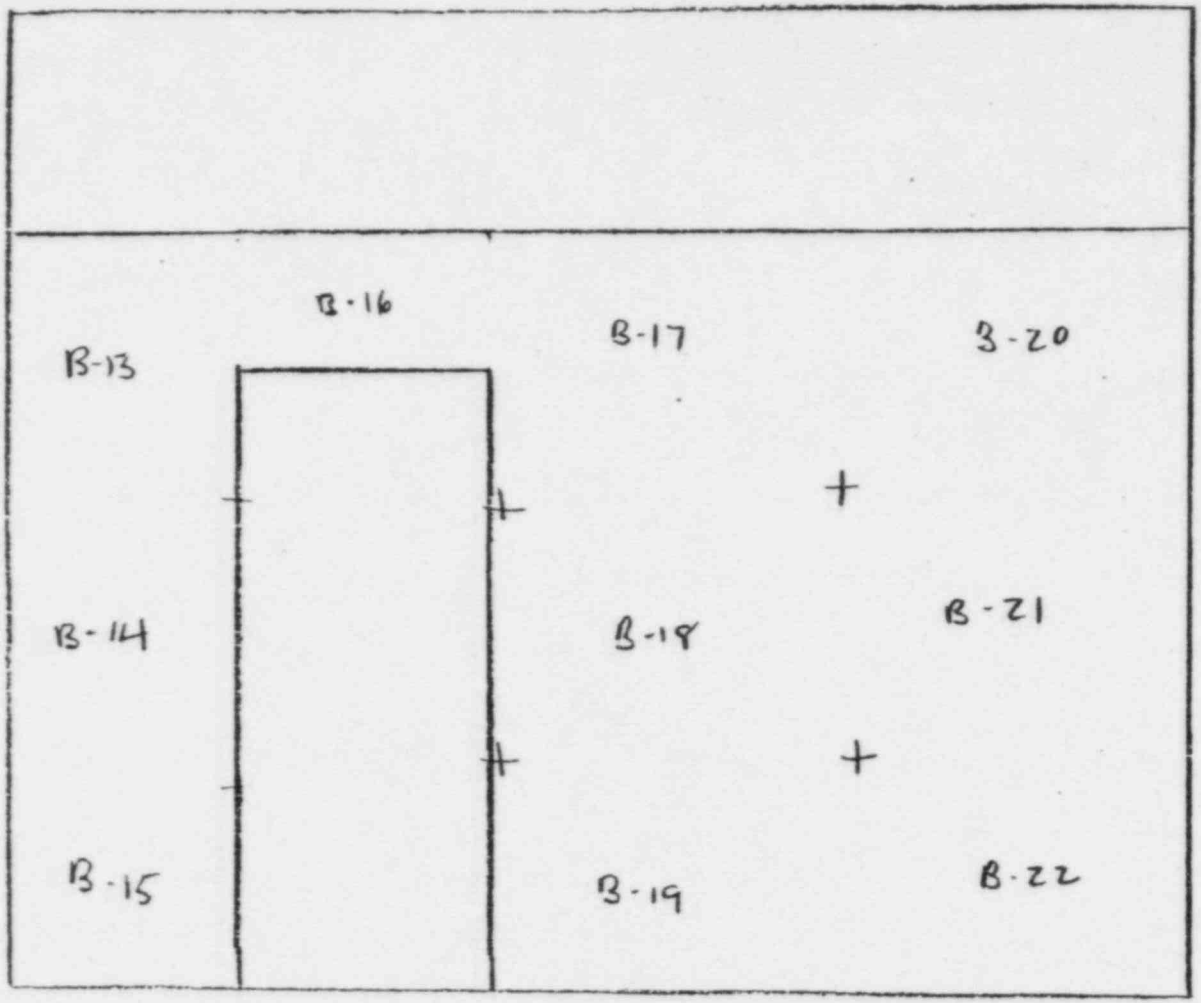
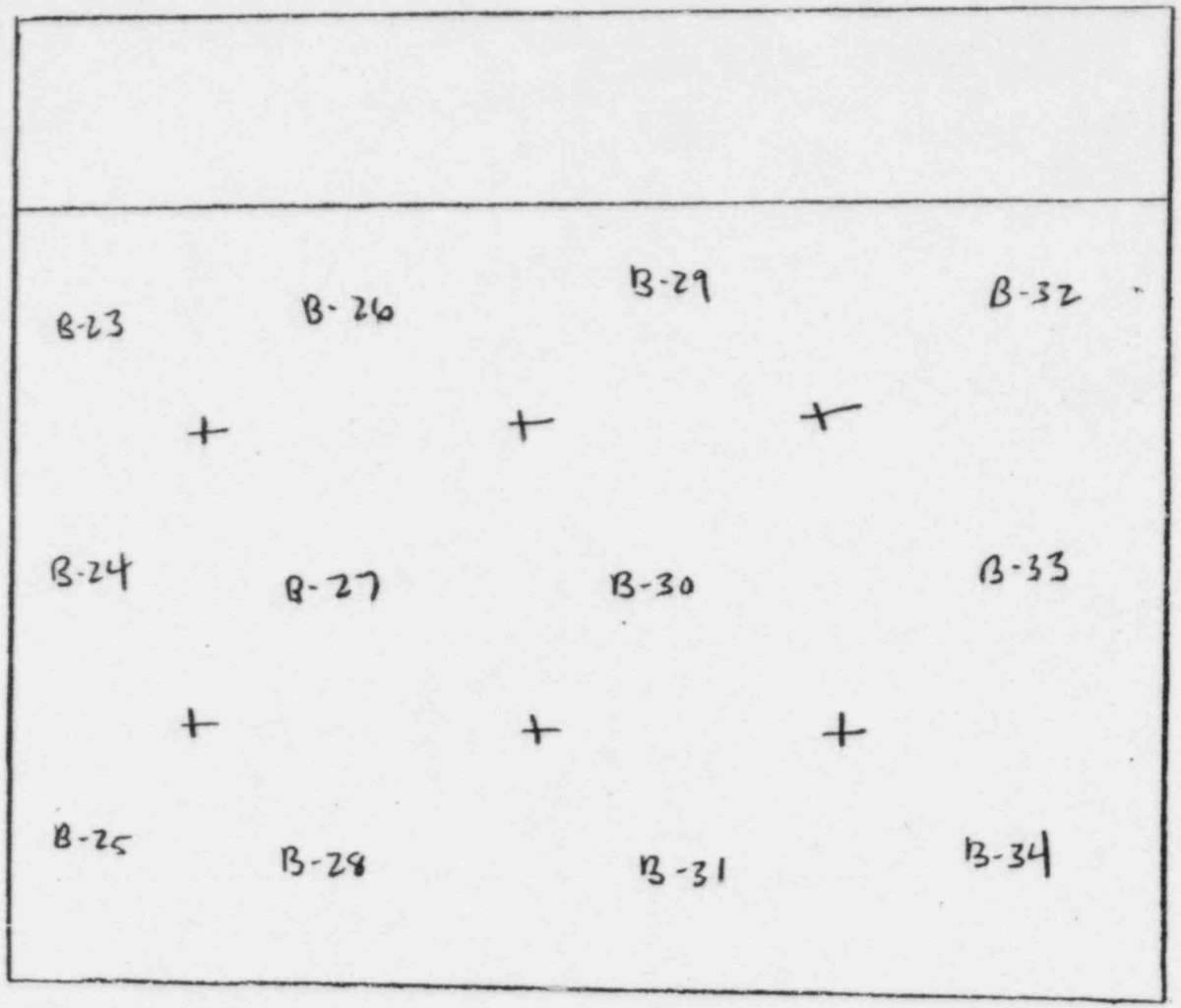
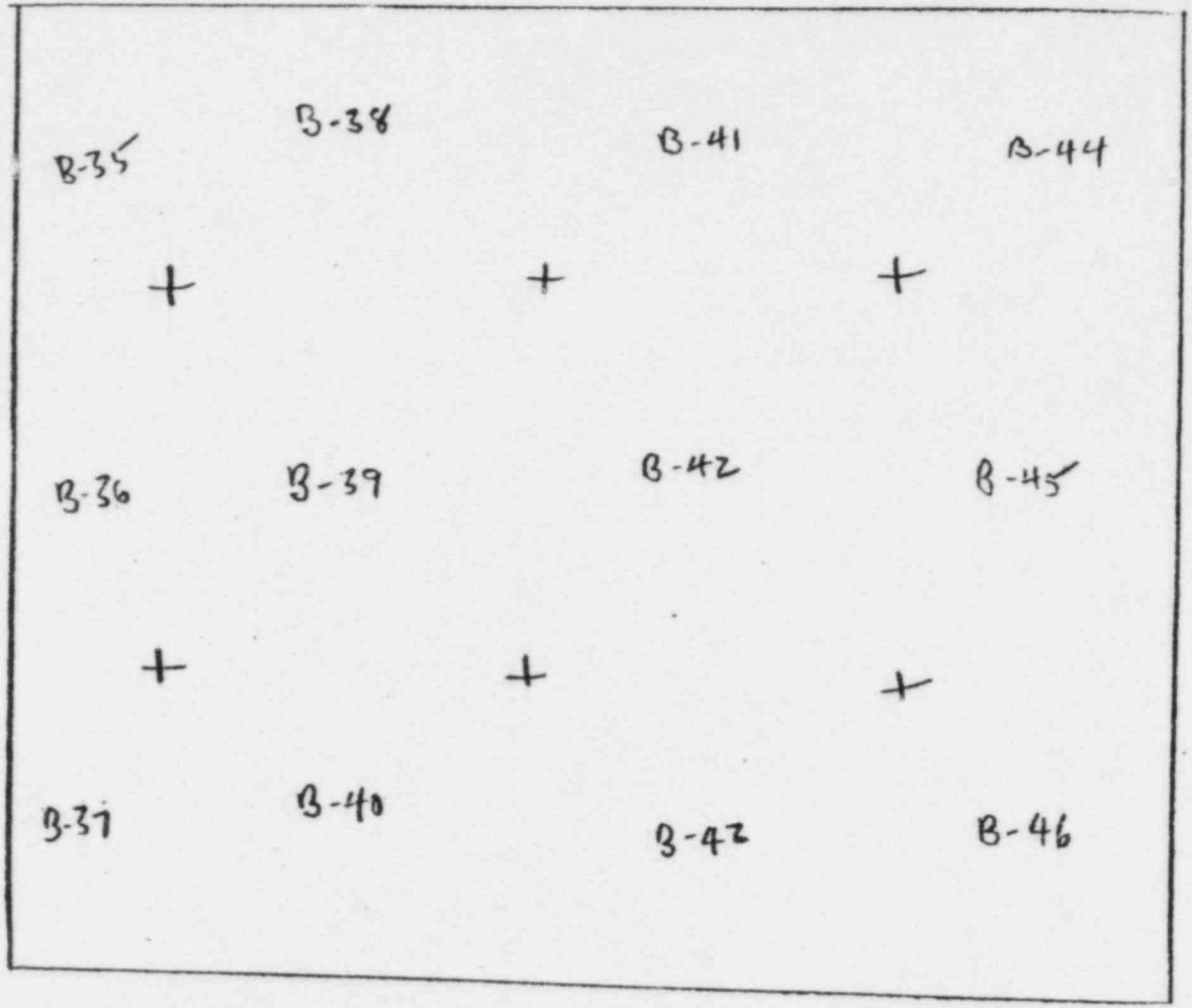


SOUTH WALL AREA B



WEST WALL AREA B



WORK HISTORY OF AREA C (OLD OFFICE)

1. Informational survey
2. Wipe down walls.
3. Remove carpet.
4. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date MARCH 6, 1980 Sheet 1 of 1
Area C

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ok Source Check 158 cpm
Background 67 cpm Corr.Factor 15.85 DPM/CPM
Probe HP210

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .08 Probe HP210

MDA = 301 DPM

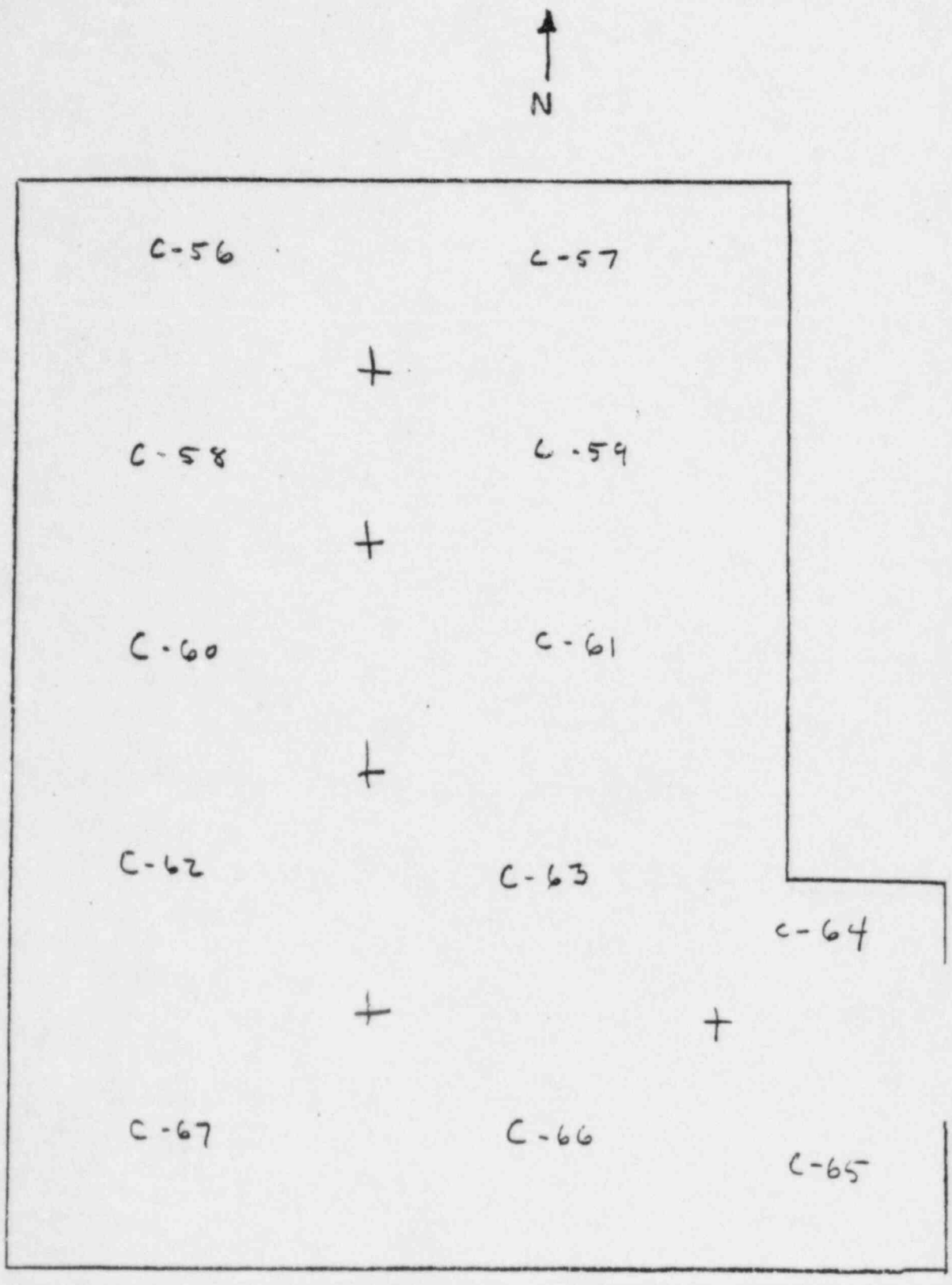
Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. MR/HR
C-1	MDA	.06
C-2	MDA	.08
C-3	MDA	.09
C-4	MDA	.10
C-5	MDA	.10
C-6	365	.10
C-7	MDA	.08
C-8	301	.06
C-9	MDA	.12
C-10	MDA	.10
C-11	MDA	.06
C-12	MDA	.14
C-13	MDA	.09
C-14	MDA	.08
C-15	MDA	.10
C-16	MDA	.10
C-17	MDA	.09
C-18	MDA	.12
C-19	MDA	.09
C-20	MDA	.10
C-21	MDA	.09
C-22	MDA	.08
C-23	MDA	.08
C-24	MDA	.10
C-25	MDA	.10
C-26	MDA	.10
C-27	MDA	.08
C-28	MDA	.10

Grid Location	Loose Activ.	Fixed Activ.
C-29	MDA	.06
C-30	MDA	.10
C-31	MDA	.12
C-32	MDA	.06
C-33	MDA	.08
C-34	MDA	.11
C-35	MDA	.08
C-36	301	.09
C-37	MDA	.10
C-38	MDA	.08
C-39	MDA	.10
C-40	MDA	.12
C-41	MDA	.08
C-42	MDA	.08
C-43	MDA	.12
C-44	MDA	.10
C-45	MDA	.10
C-46	MDA	.10
C-47	MDA	.08
C-48	MDA	.07
C-49	MDA	.12
C-50	MDA	.08
C-51	MDA	.08
C-52	MDA	.18
C-53	MDA	.06
C-54	MDA	.08
C-55	MDA	.13
C-56	MDA	.10

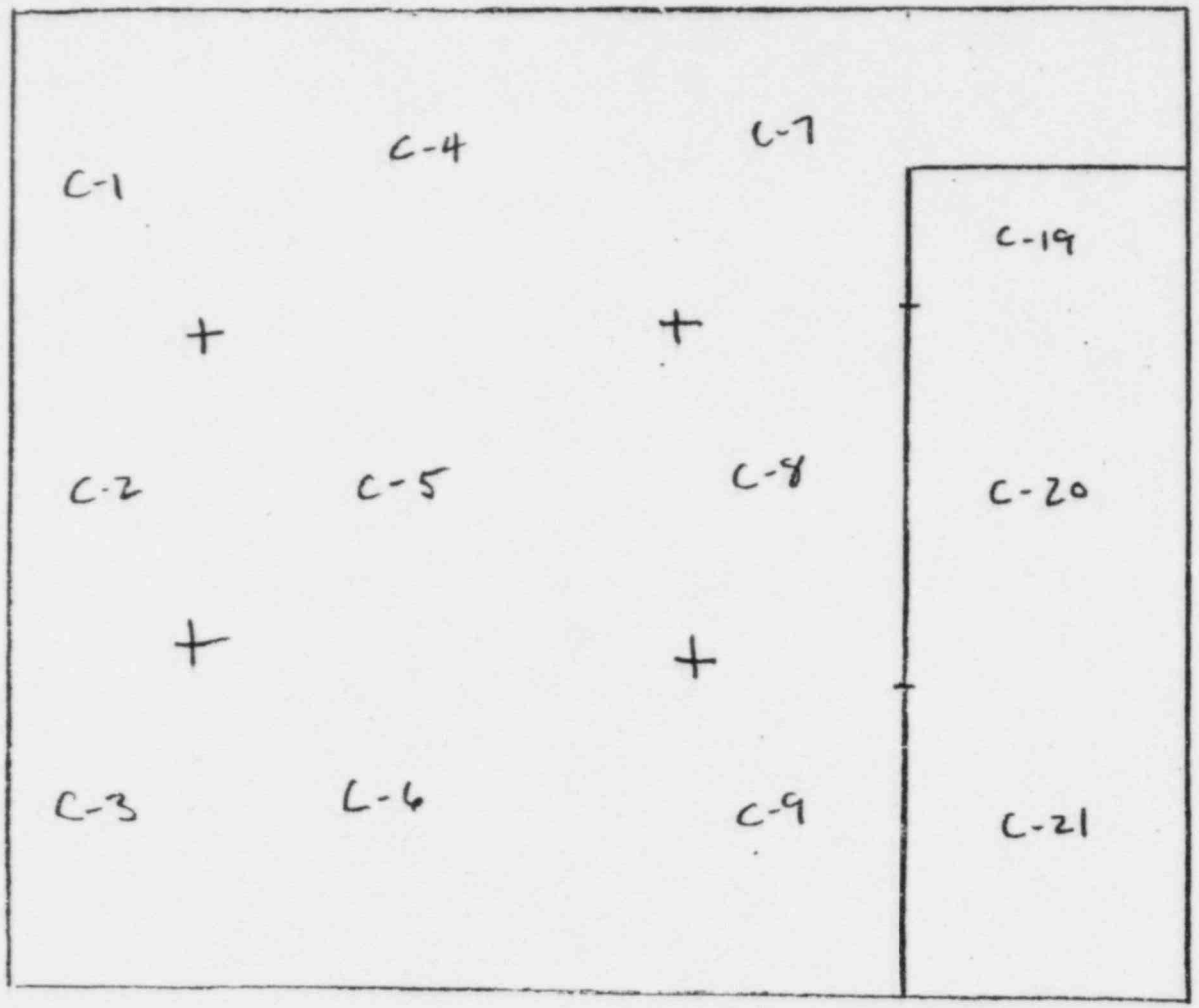
Grid Location	Loose Activ.	Fixed Activ.
C-57	MDA	.12
C-58	MDA	.14
C-59	MDA	.14
C-60	301	.14
C-61	MDA	.14
C-62	MDA	.14
C-63	365	.14
C-64	MDA	.12
C-65	333	.14
C-66	MDA	.12
C-67	317	.14

Surveyed by: [signature]

FLOOR HATCH



NORTH WALL AREA C



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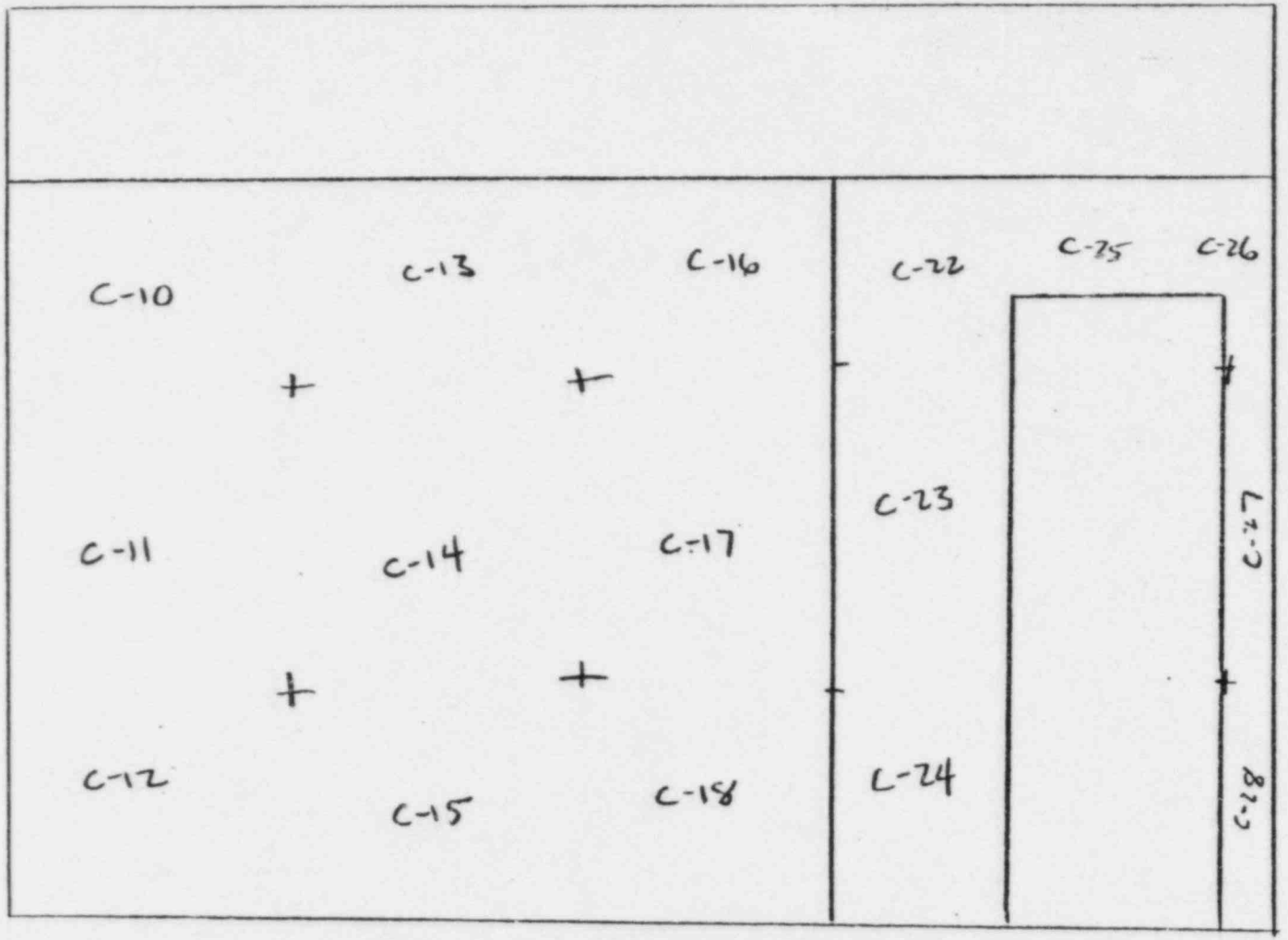
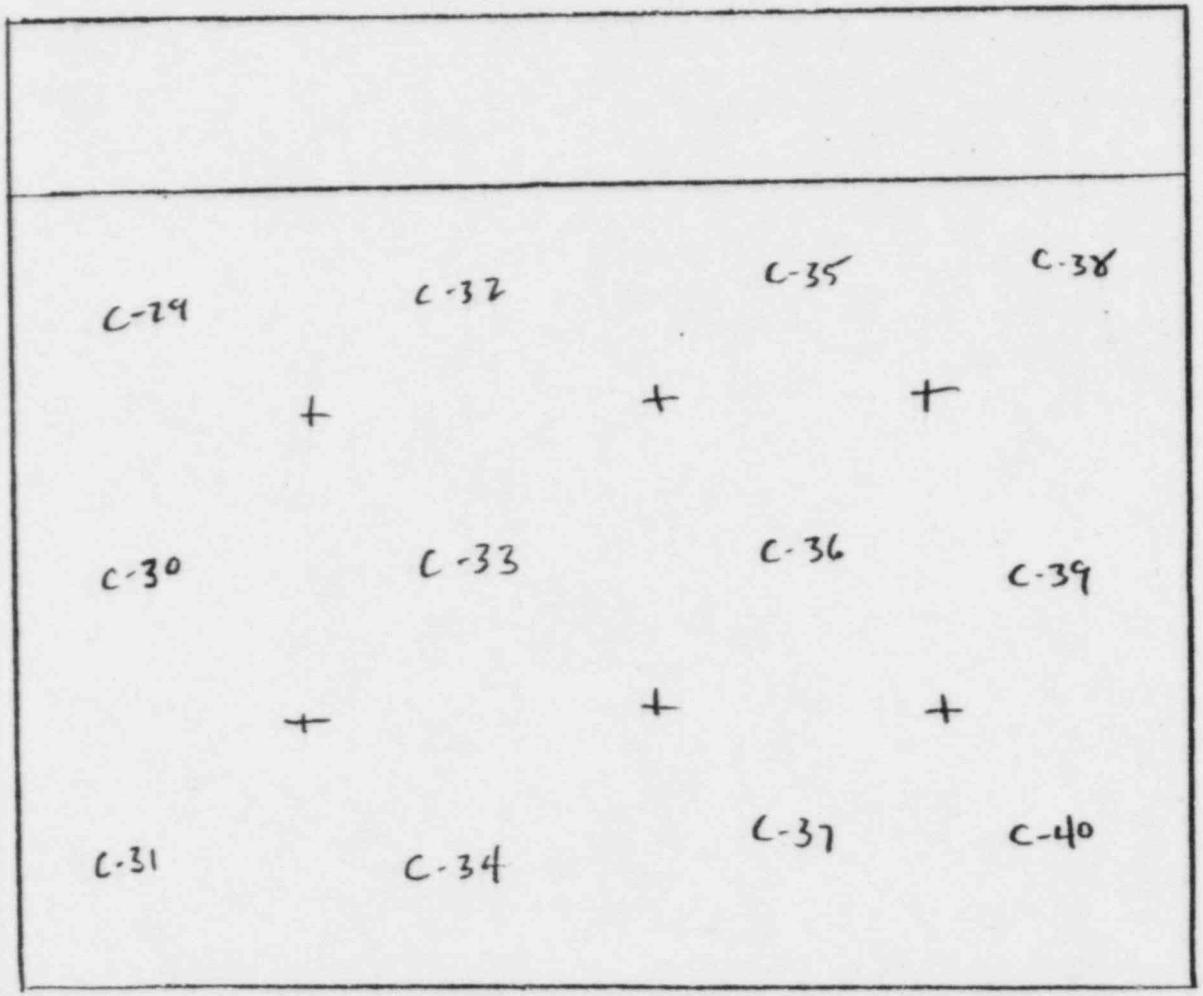
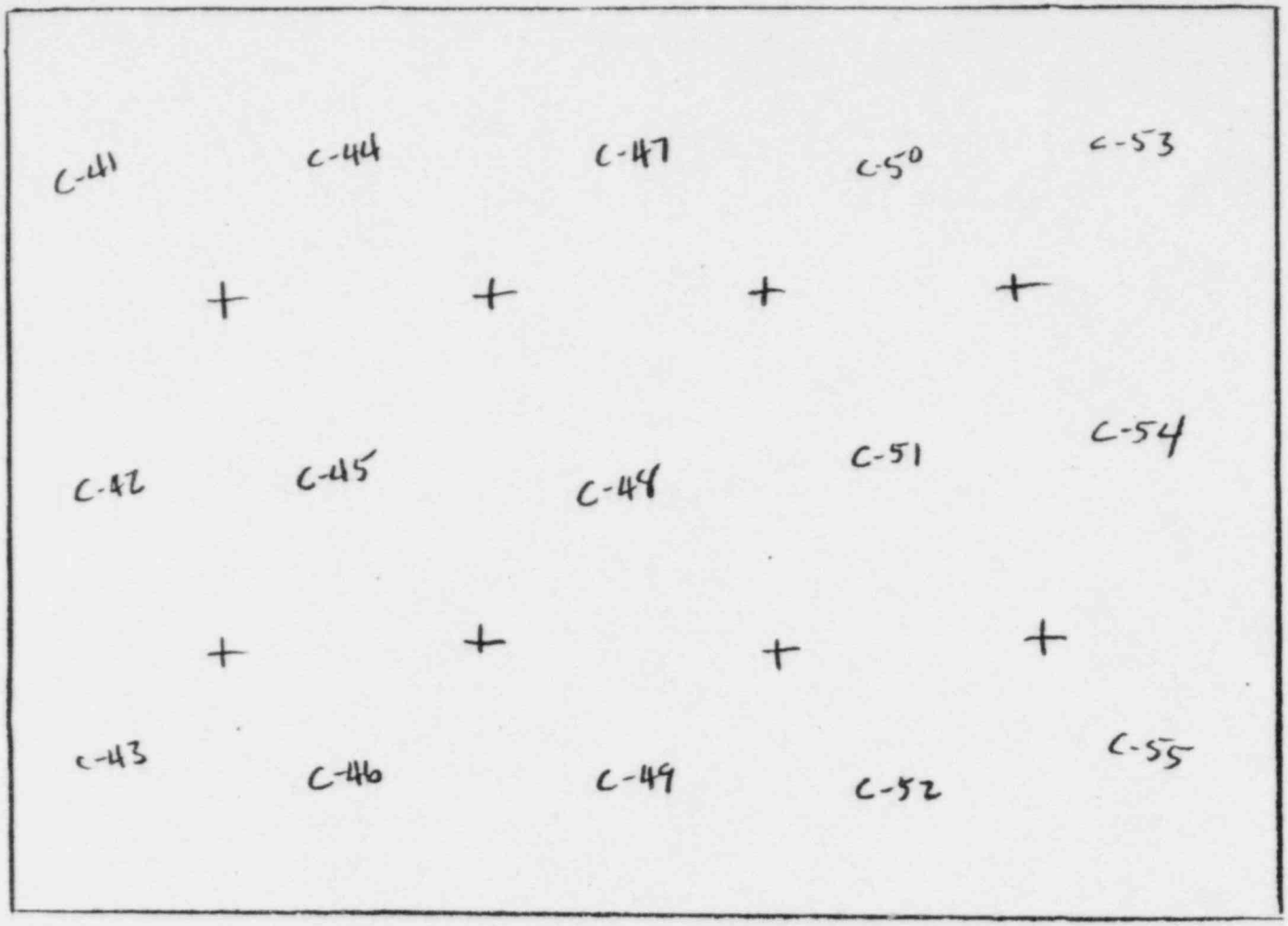


SOUTH WALL AREA C



WEST WALL AREA C



WORK HISTORY OF AREA C (OLD OFFICE)

1. Informational survey
2. Wipe down walls.
3. Remove carpet.
4. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date MARCH 6, 1980 Sheet 1 of 1
Area C

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ol Source Check 158 cpm
Background 67 cpm Corr.Factor 15.85 DPM/CPM
Probe HP210

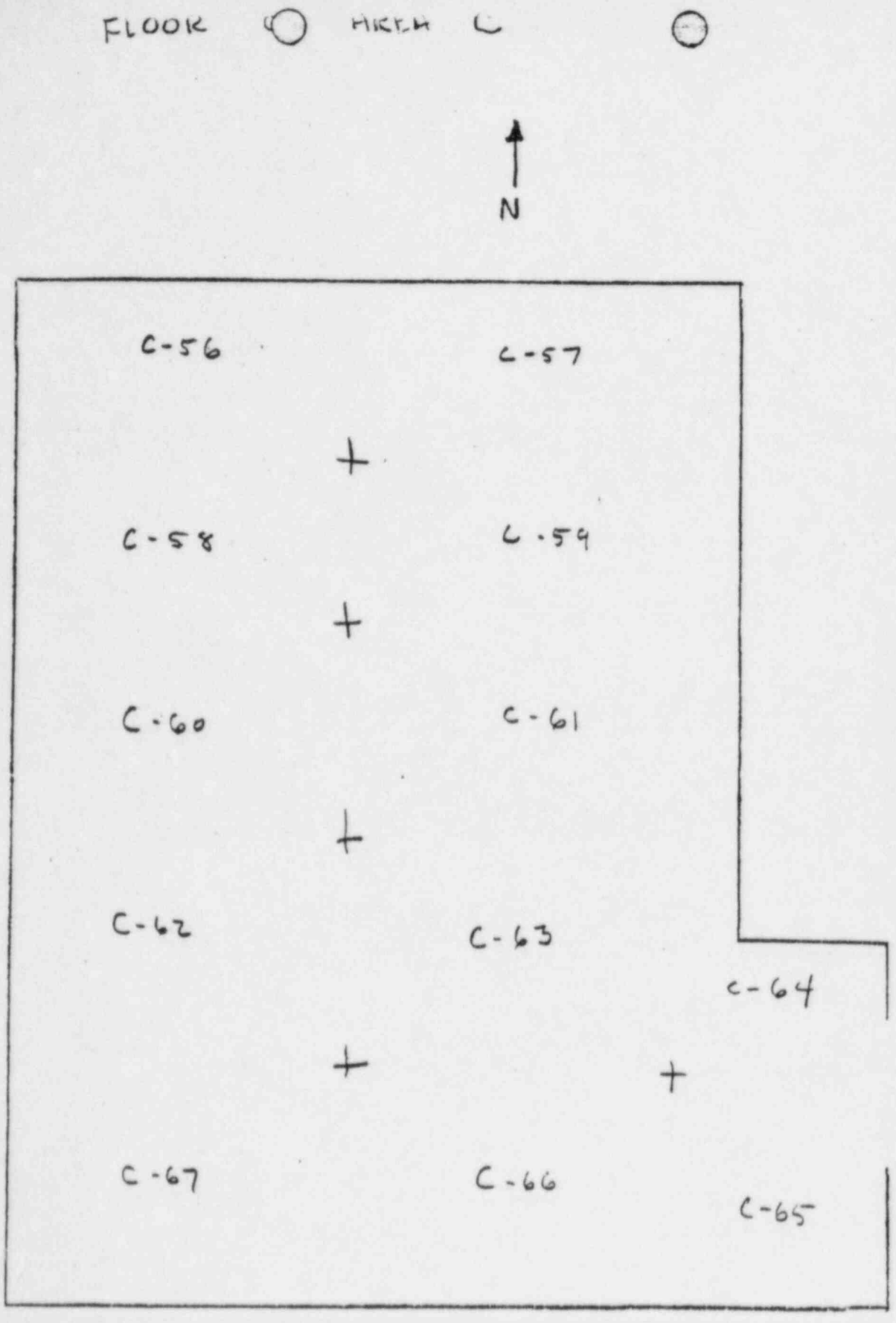
Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ol Source Ck. ol
Background .08 Probe HP210

MDA = 301 DPM

Grid Location	Loose Activ. DPM/100CM²	Fixed Activ. MR/HR	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
C-1	MDA	.06	C-29	MDA	.06	C-57	MDA	.12
C-2	MDA	.08	C-30	MDA	.10	C-58	MDA	.14
C-3	MDA	.09	C-31	MDA	.12	C-59	MDA	.14
C-4	MDA	.10	C-32	MDA	.06	C-60	301	.14
C-5	MDA	.10	C-33	MDA	.08	C-61	MDA	.14
C-6	365	.10	C-34	MDA	.11	C-62	MDA	.14
C-7	MDA	.08	C-35	MDA	.08	C-63	365	.14
C-8	301	.06	C-36	301	.09	C-64	MDA	.12
C-9	MDA	.12	C-37	MDA	.10	C-65	333	.14
C-10	MDA	.10	C-38	MDA	.08	C-66	MDA	.12
C-11	MDA	.06	C-39	MDA	.10	C-67	317	.14
C-12	MDA	.14	C-40	MDA	.12			
C-13	MDA	.09	C-41	MDA	.08			
C-14	MDA	.08	C-42	MDA	.08			
C-15	MDA	.10	C-43	MDA	.12			
C-16	MDA	.10	C-44	MDA	.10			
C-17	MDA	.08	C-45	MDA	.10			
C-18	MDA	.12	C-46	MDA	.10			
C-19	MDA	.09	C-47	MDA	.08			
C-20	MDA	.10	C-48	MDA	.07			
C-21	MDA	.09	C-49	MDA	.12			
C-22	MDA	.08	C-50	MDA	.08			
C-23	MDA	.08	C-51	MDA	.03			
C-24	MDA	.10	C-52	MDA	.18			
C-25	MDA	.10	C-53	MDA	.06			
C-26	MDA	.10	C-54	MDA	.08			
C-27	MDA	.08	C-55	MDA	.13			
C-28	MDA	.10	C-56	MDA	.10			

Surveyed by:


FLOOR
HIGH
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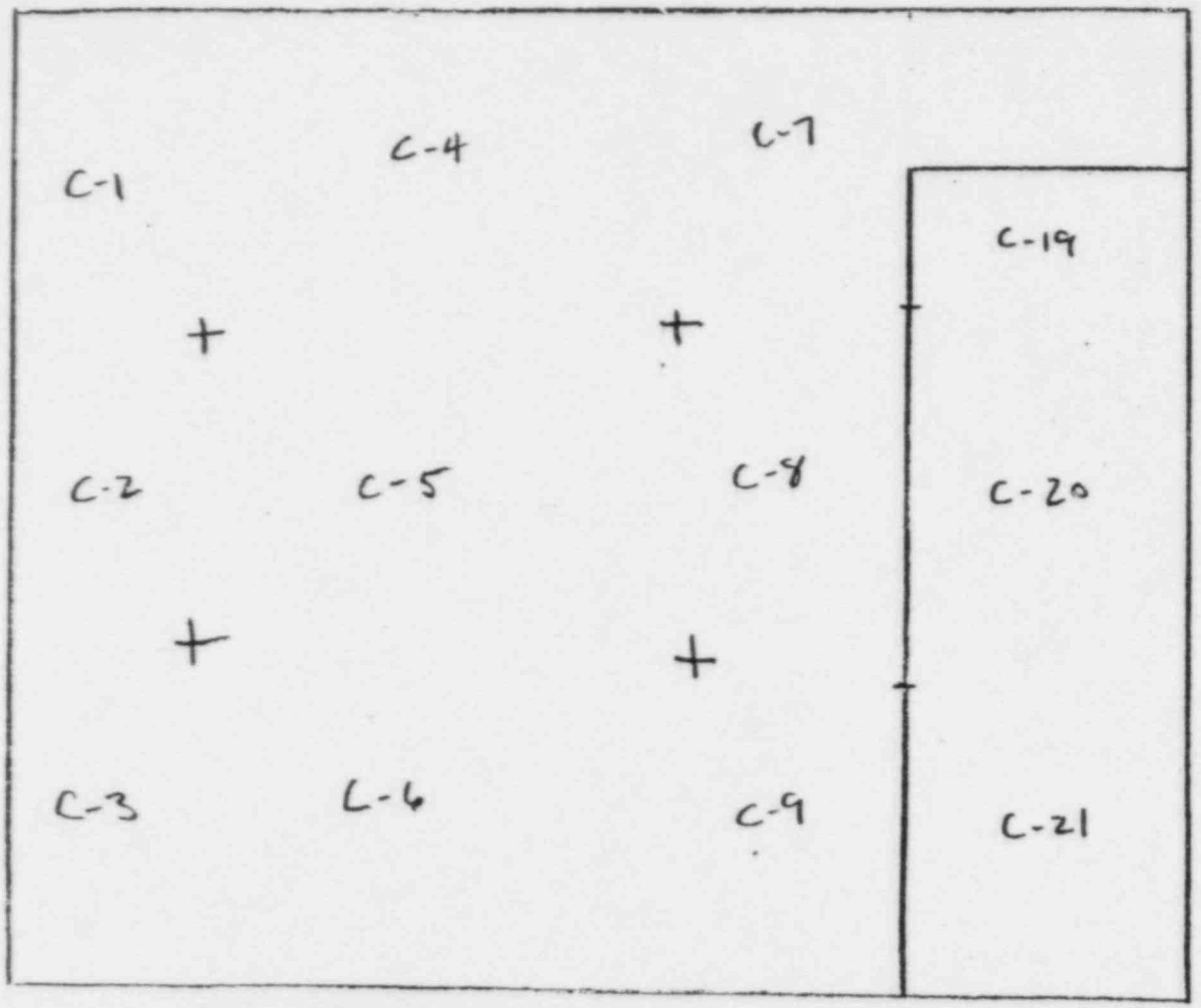
NORTH WALL AREA C



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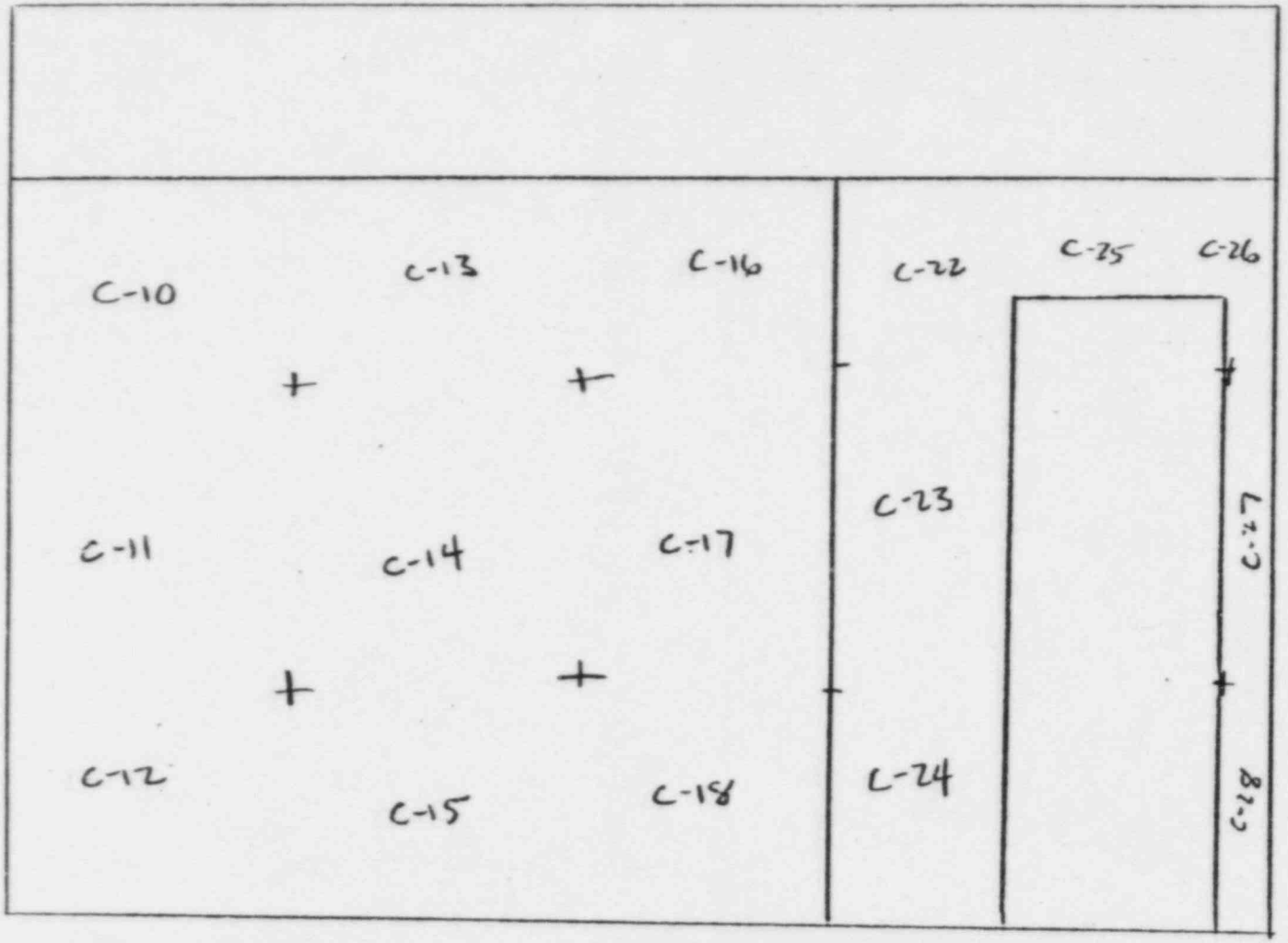
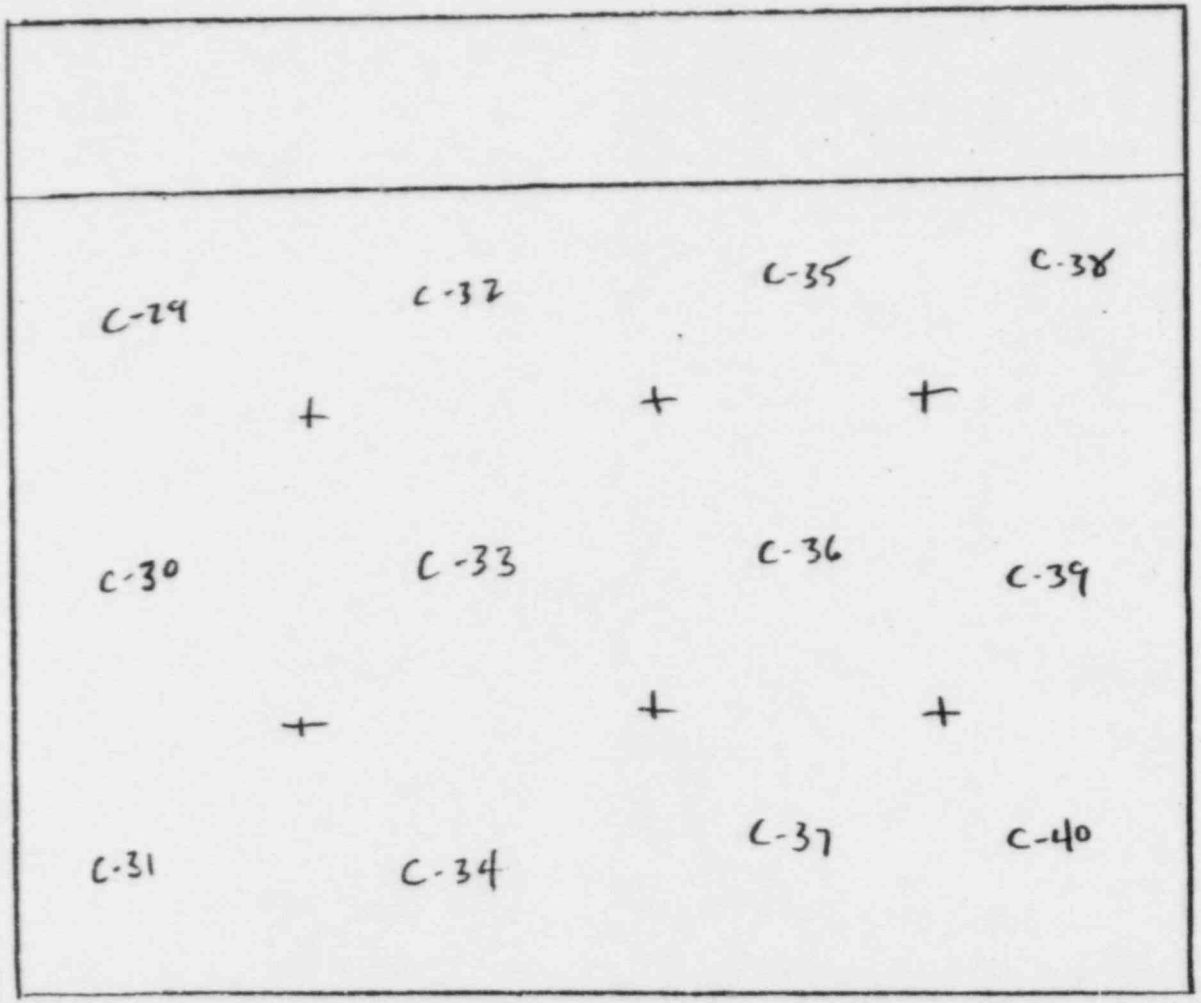
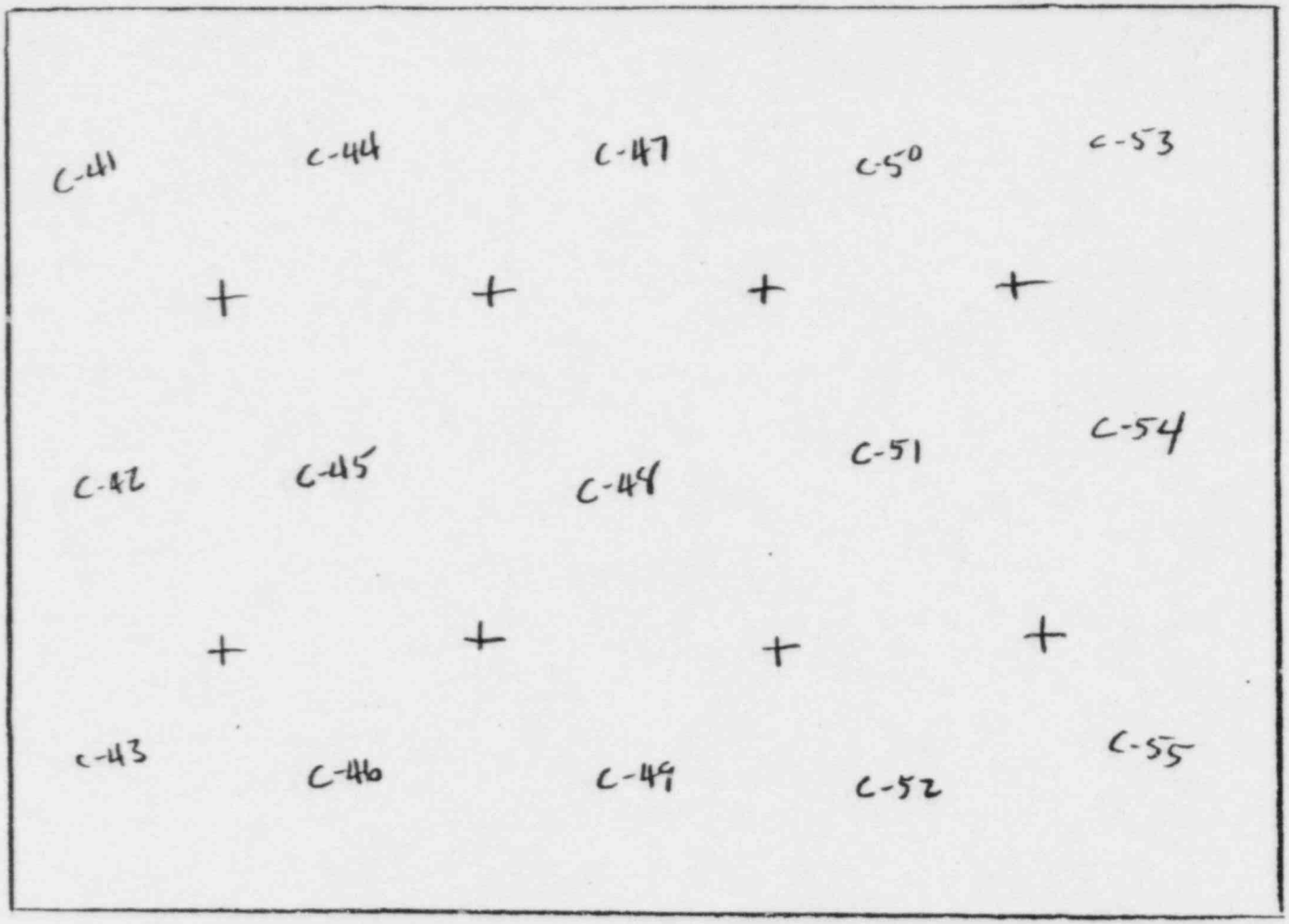


SOUTH WALL AREA C



WEST WALL AREA C



WORK HISTORY OF AREA D (OLD OFFICE)

1. Informational survey.
2. Wipe down walls and floor.
3. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date MARCH 7, 1980 Sheet 1 of 1
Area D

Loose Surface Activity

Meter RS-2 Ser.# 168
Cal. Date ok Source Check 167 ccpm
Background 63 Corr.Factor 14.99 DPM/cpm
Probe HP210

Fixed Activity

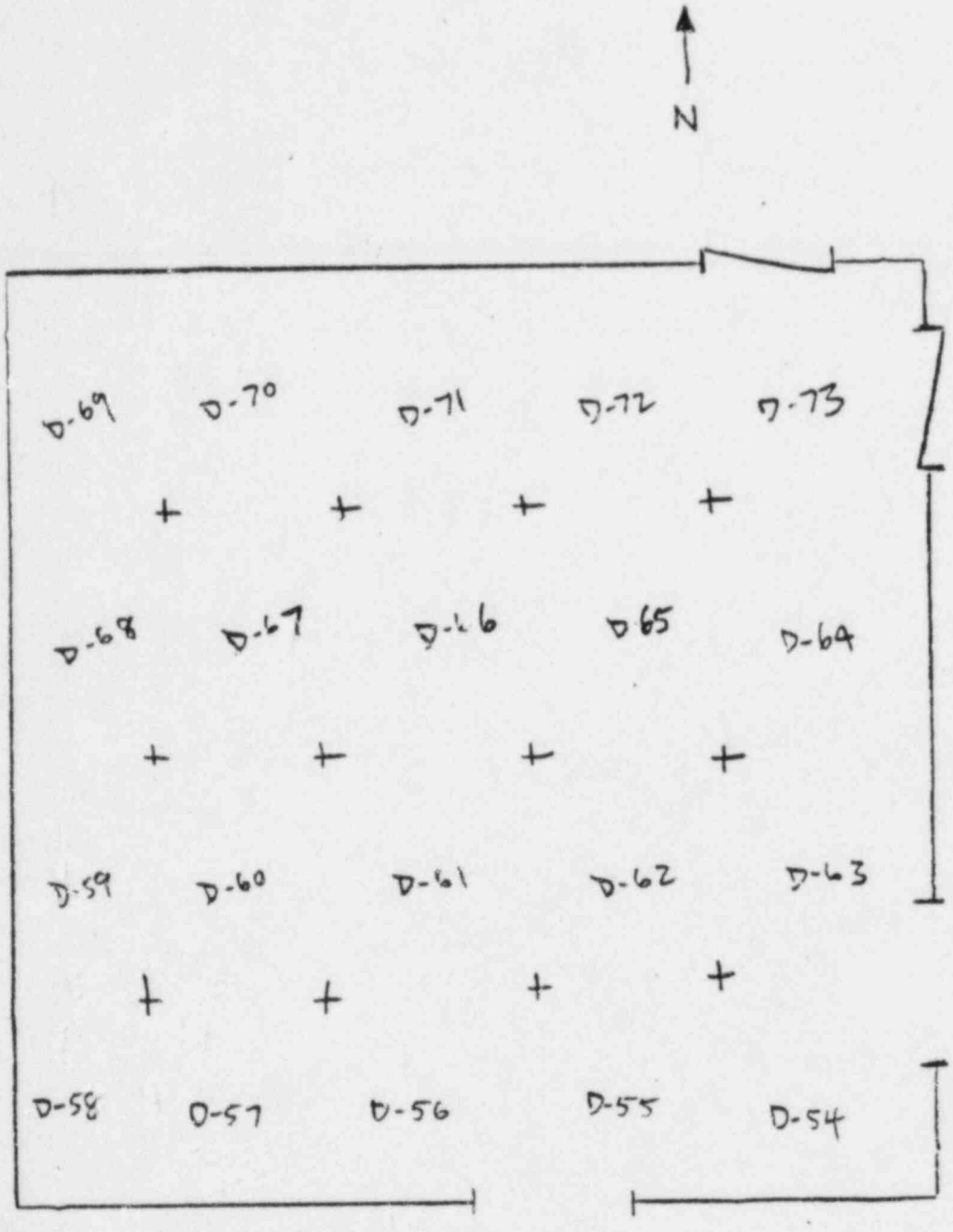
Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .08 Probe HP210

MDA = 270 DPM

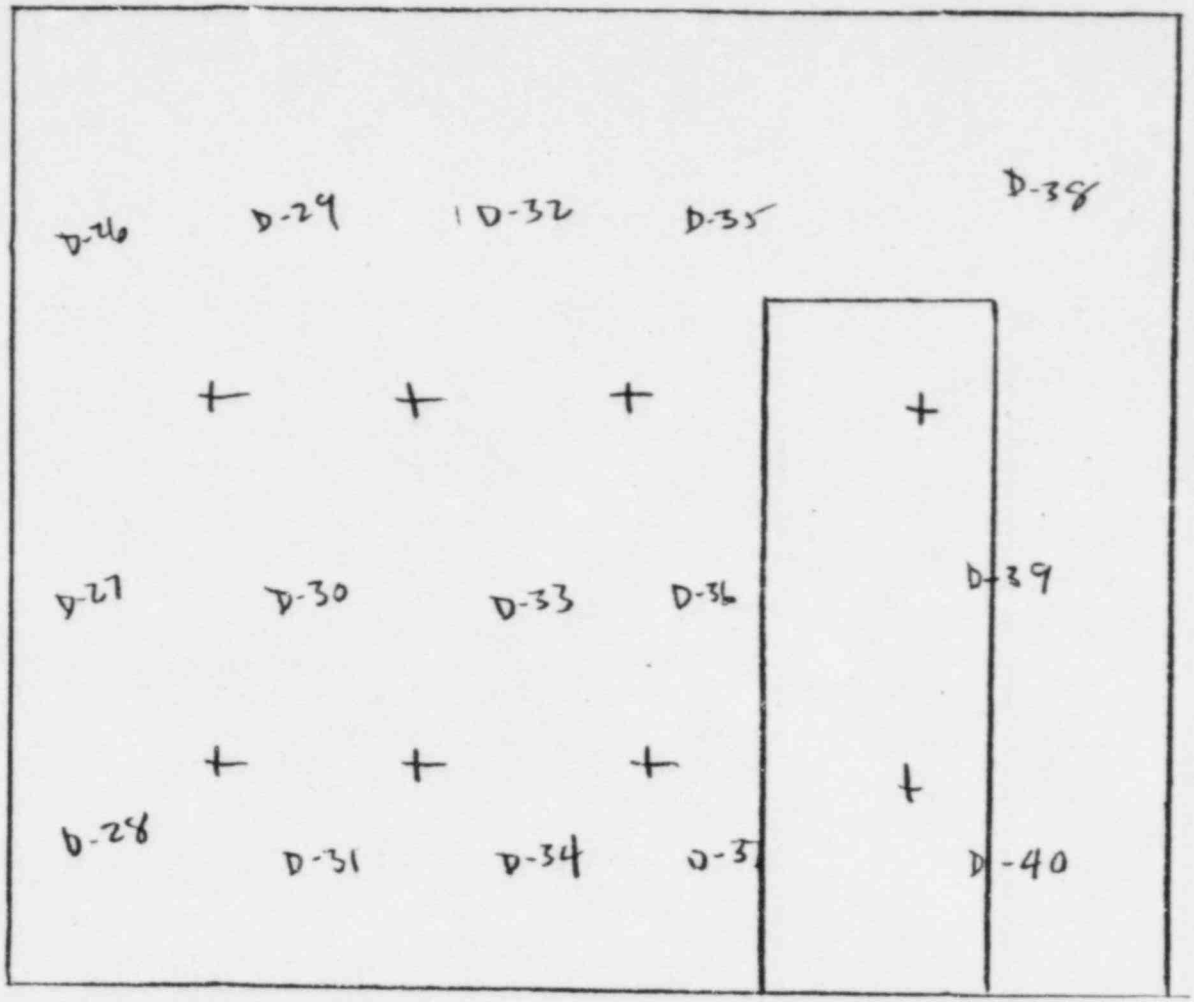
Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. mR/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
D-1	MDA	.08	D-29	MDA	.08	D-57	465	.10
D-2	MDA	.10	D-30	MDA	.09	D-58	MDA	.10
D-3	MDA	.08	D-31	MDA	.09	D-59	MDA	.10
D-4	MDA	.08	D-32	MDA	.08	D-60	MDA	.12
D-5	MDA	.08	D-33	MDA	.09	D-61	MDA	.12
D-6	MDA	.08	D-34	MDA	.09	D-62	MDA	.10
D-7	MDA	.12	D-35	MDA	.09	D-63	MDA	.14
D-8	MDA	.08	D-36	MDA	.09	D-64	MDA	.16
D-9	MDA	.10	D-37	MDA	.09	D-65	MDA	.10
D-10	MDA	.08	D-38	MDA	.09	D-66	MDA	.10
D-11	315	.06	D-39	929	.09	D-67	330	.10
D-12	MDA	.08	D-40	MDA	.09	D-68	MDA	.08
D-13	MDA	.06	D-41	MDA	.14	D-69	MDA	.10
D-14	MDA	.07	D-42	MDA	.09	D-70	MDA	.10
D-15	MDA	.06	D-43	MDA	.09	D-71	360	.10
D-16	MDA	.06	D-44	MDA	.10	D-72	MDA	.10
D-17	MDA	.06	D-45	MDA	.08	D-73	MDA	.10
D-18	MDA	.08	D-46	360	.10			
D-19	MDA	.08	D-47	MDA	.18			
D-20	MDA	.09	D-48	MDA	.08			
D-21	MDA	.08	D-49	MDA	.08			
D-22	465	.10	D-50	MDA	.08			
D-23	MDA	.08	D-51	MDA	.06			
D-24	MDA	.06	D-52	MDA	.06			
D-25	MDA	.08	D-53	MDA	.09			
D-26	MDA	.08	D-54	MDA	.08			
D-27	MDA	.08	D-55	MDA	.14			
D-28	MDA	.09	D-56	MDA	.10			

Surveyed by: [signature]

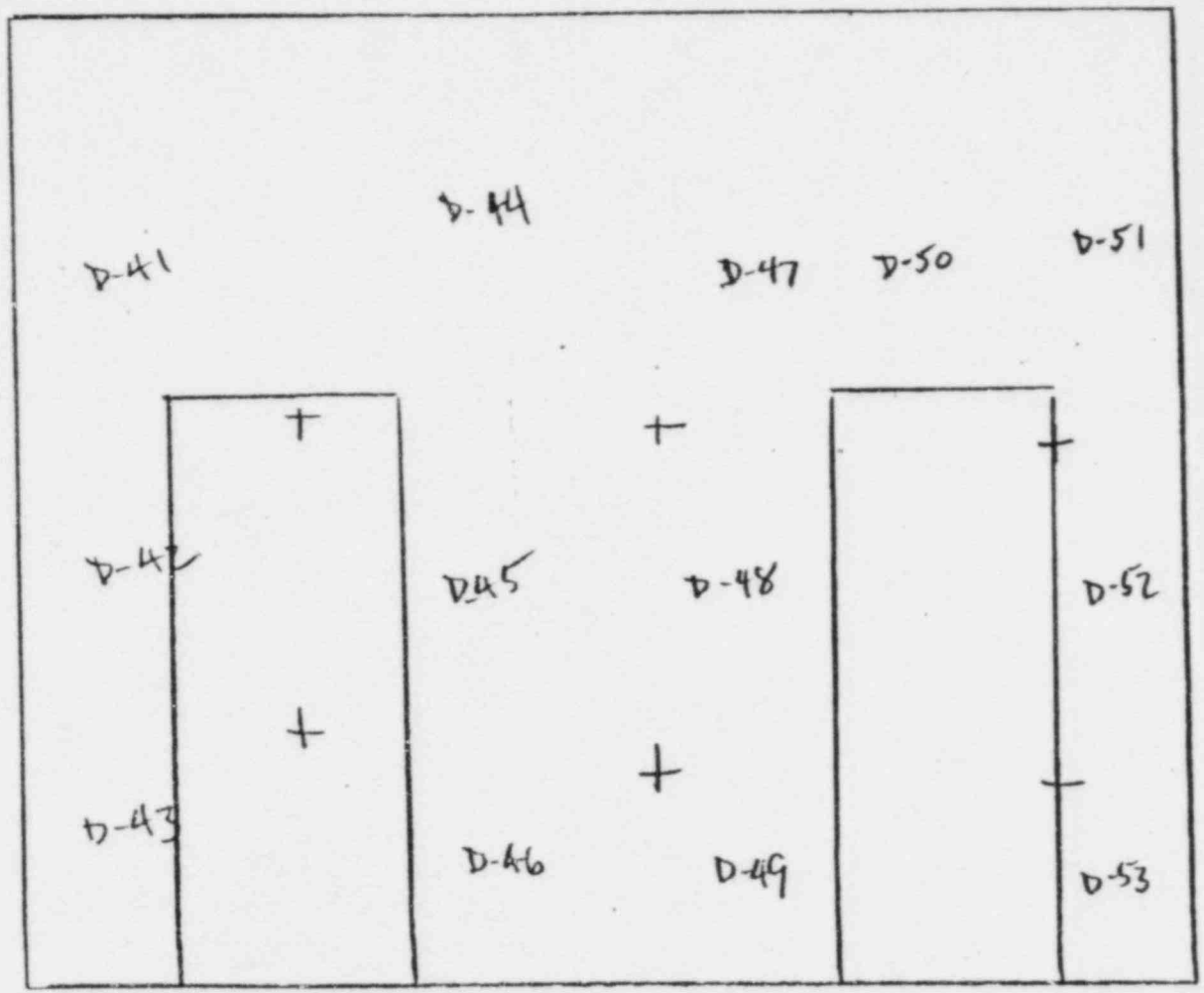
FLOOR OF AREA D



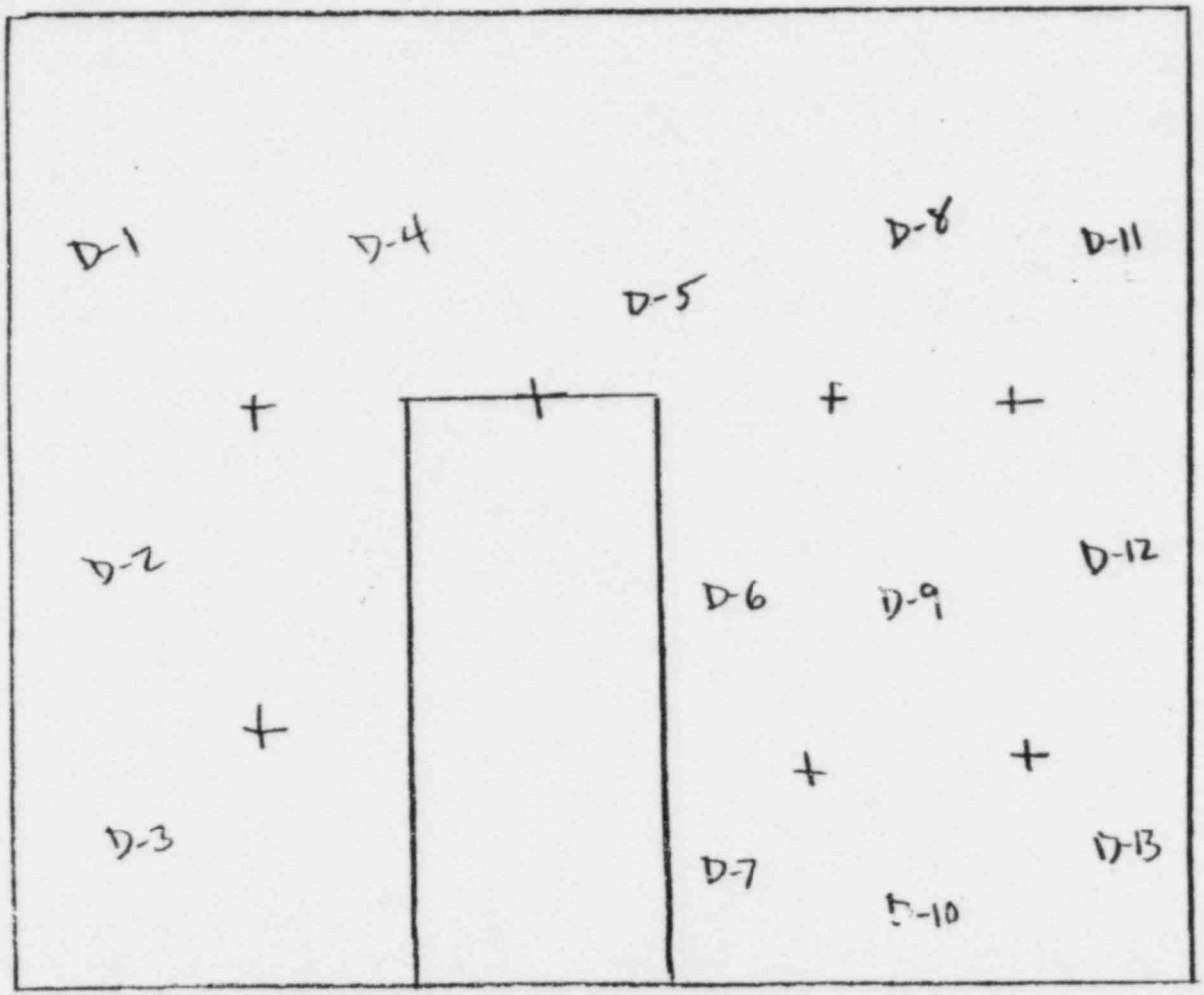
NORTH WALL AREA D



EAST WALL AREA D



SOUTH WALL AREA D



WEST WALL AREA D

WORK HISTORY AREA E (OLD G.M. OFFICE)

1. Initial survey
2. Wipe down walls.
3. Remove Carpet.
4. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date March 7, 1980 Sheet 1 of 1
Area E

Loose Surface Activity

Meter MS-2 Ser.# 581
Cal. Date 1 Source Check 212 CCPM
Background 260 Corr.Factor 11.81 DPM/CPM
Probe SPA-3

Fixed Activity

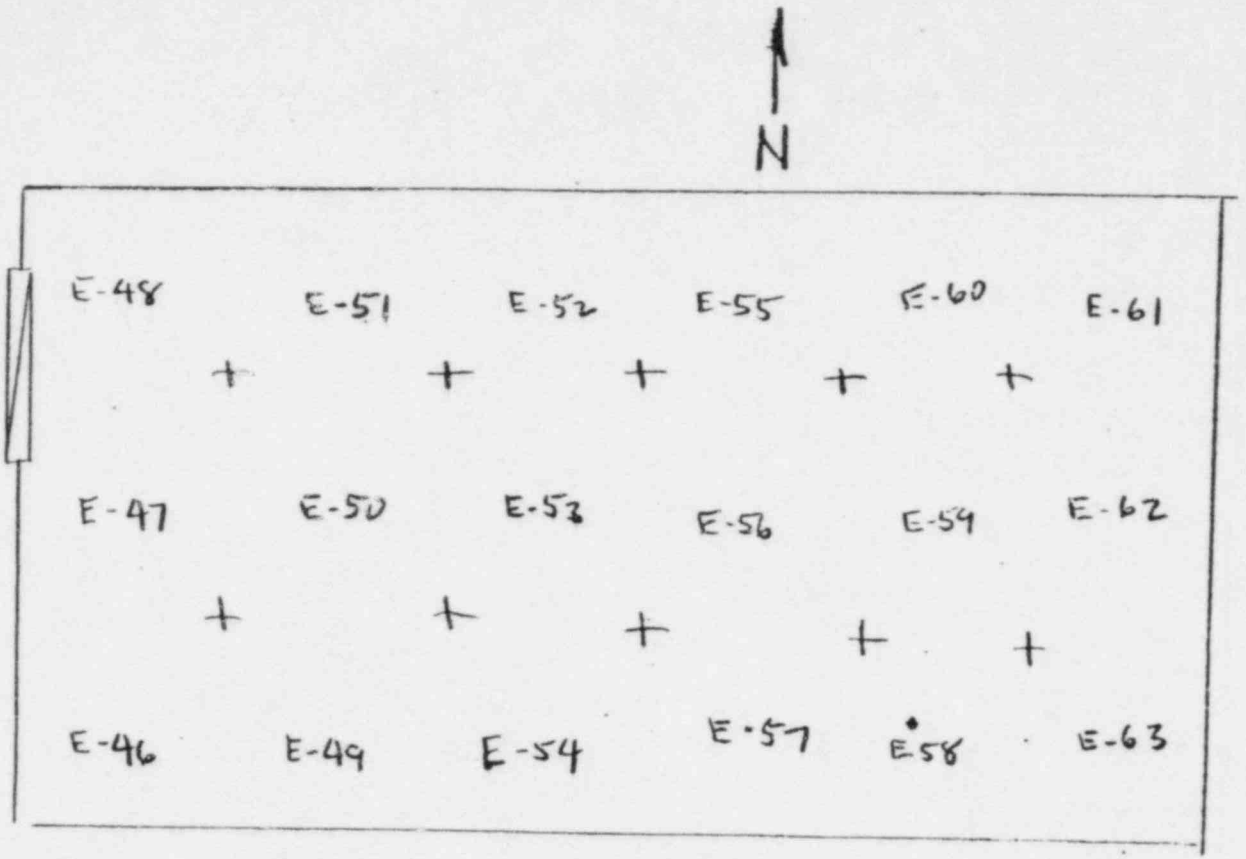
Meter ~~HP-7~~ E120 Ser.# 5540
Cal. Date 1 Source Ck. 1
Background .08 Probe HP210

MDA = 449 DPM

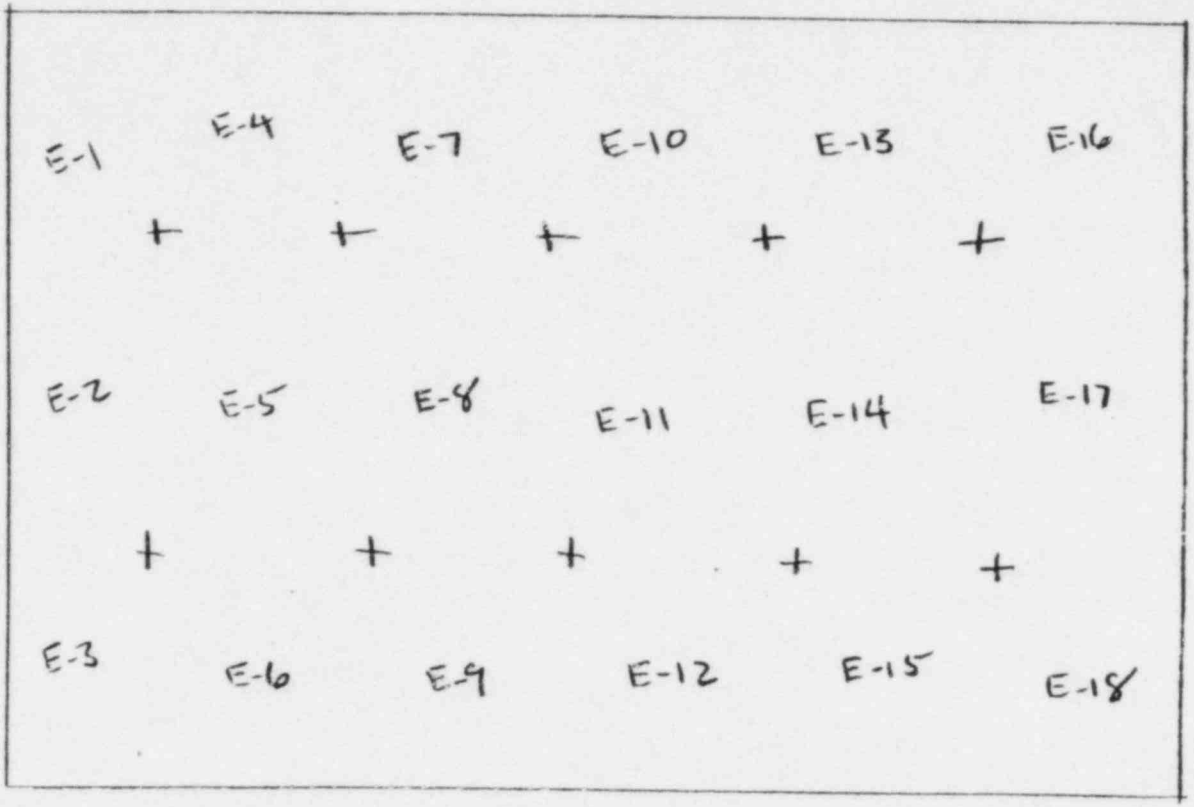
Grid Location	Loose Activ. DPM/100CM²	Fixed Activ. MR/HR	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
E-1	MDA	.10	E-29	MDA	.09	E-57	MDA	.10
E-2	MDA	.12	E-30	MDA	.10	E-58	MDA	.10
E-3	MDA	.10	E-31	MDA	.07	E-59	MDA	.10
E-4	MDA	.10	E-32	MDA	.08	E-60	MDA	.08
E-5	MDA	.10	E-33	MDA	.10	E-61	MDA	.08
E-6	MDA	.12	E-34	MDA	.09	E-62	MDA	.08
E-7	MDA	.08	E-35	MDA	.09	E-63	MDA	.10
E-8	MDA	.10	E-36	MDA	.08	E-64	MDA	.08
E-9	MDA	.09	E-37	MDA	.08	E-65	MDA	.08
E-10	MDA	.08	E-38	MDA	.08	E-66	MDA	.08
E-11	MDA	.10	E-39	MDA	.07	E-67	MDA	.08
E-12	MDA	.12	E-40	MDA	.10	E-68	MDA	.08
E-13	MDA	.08	E-41	MDA	.07	E-69	MDA	.07
E-14	MDA	.09	E-42	MDA	.10	E-70	MDA	.12
E-15	MDA	.12	E-43	MDA	.11	E-71	MDA	.08
E-16	MDA	.13	E-44	MDA	.09	E-72	MDA	.08
E-17	MDA	.09	E-45	MDA	.08			
E-18	MDA	.10	E-46	MDA	.10			
E-19	MDA	.10	E-47	MDA	.08			
E-20	MDA	.10	E-48	MDA	.12			
E-21	MDA	.08	E-49	MDA	.12			
E-22	MDA	.08	E-50	MDA	.10			
E-23	MDA	.10	E-51	MDA	.10			
E-24	MDA	.12	E-52	MDA	.12			
E-25	MDA	.08	E-53	MDA	.10			
E-26	MDA	.10	E-54	MDA	.08			
E-27	MDA	.09	E-55	MDA	.10			
E-28	MDA	.08	E-56	MDA	.10			

Surveyed by: [illegible]

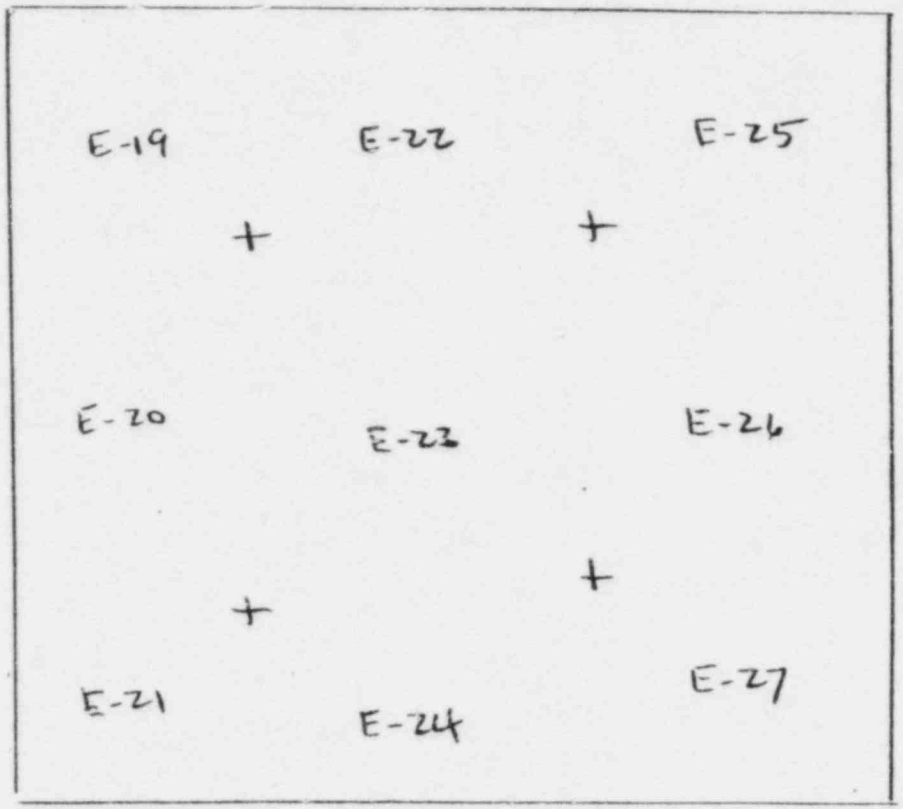
FLOOR OF AREA E



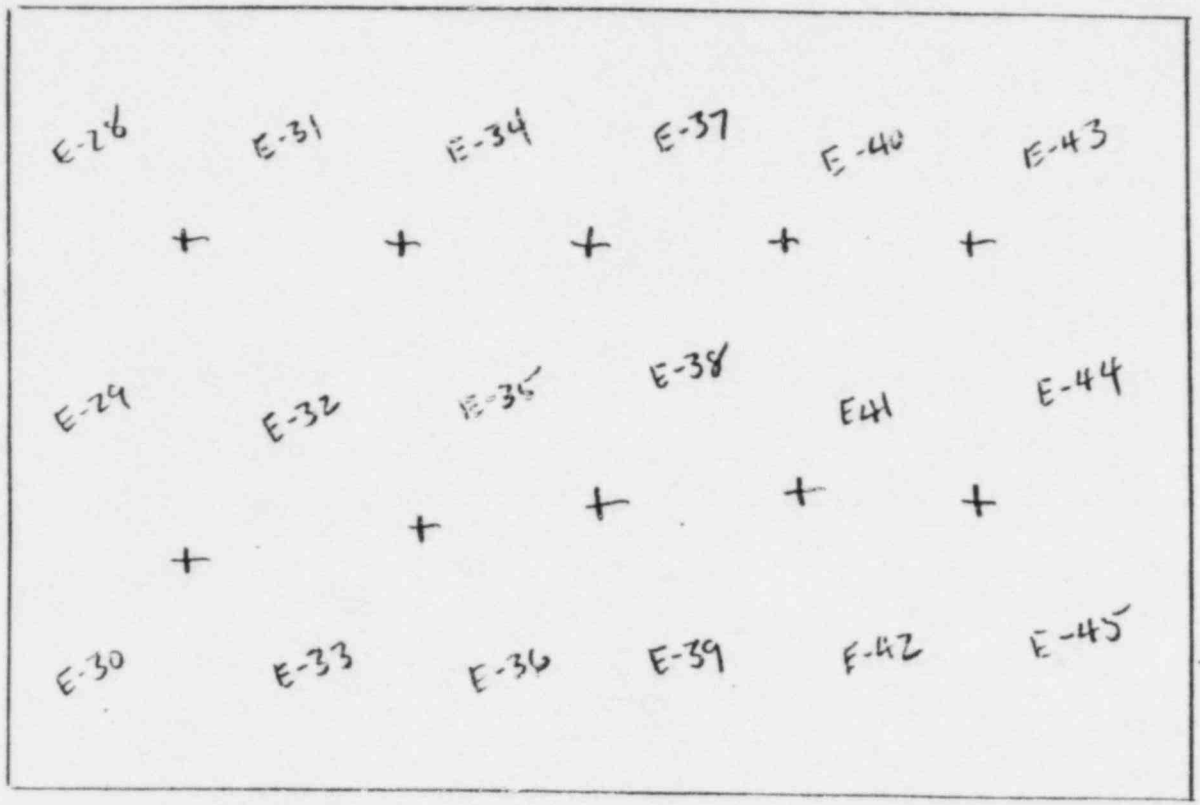
NORTH WALL AREA E



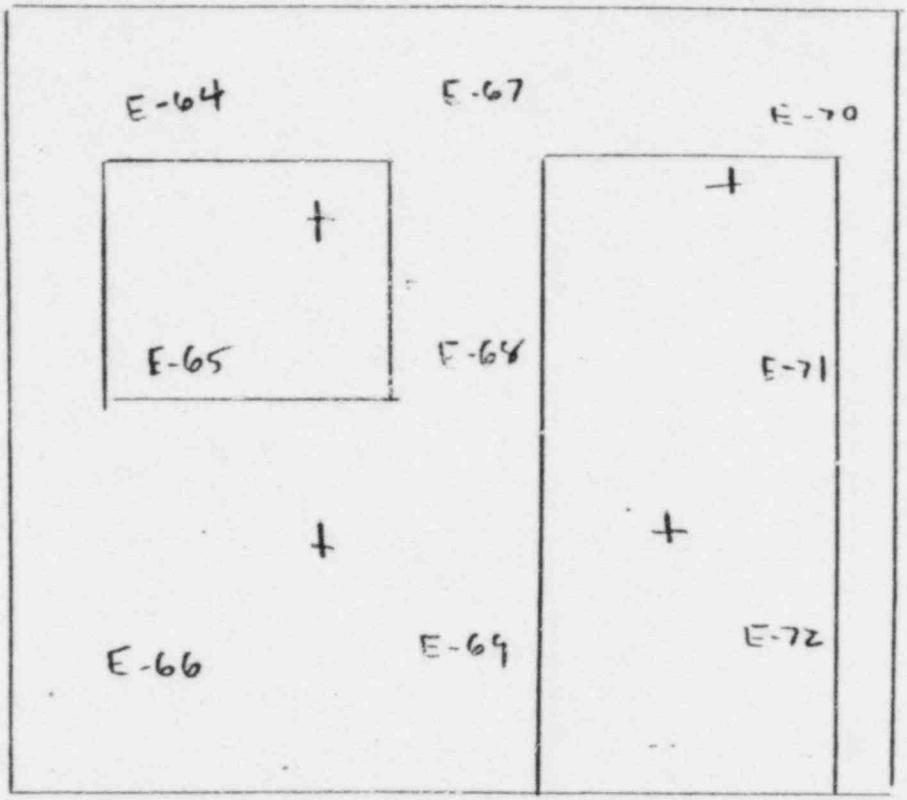
EAST WALL AREA E



SOUTH WALL AREA E



WEST WALL AREA E



WORK HISTORY AREA F (OLD OPERATIONS AREA)

1. Informational survey
2. Wipe down
3. Area used as counting station and frisking station until November, 1979.
4. Removed plugs and deconed.
5. Removed unnecessary piping and conduit.
6. Performed close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 1 of 3
Area F

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date [illegible] Source Check 155 cpm
Background 68 cpm Corr.Factor 16.16 dpm/cpm
Probe HP 210

MDA = 307 dpm/smear

Fixed Activity

Meter E120 Ser.# 5546
Cal. Date [illegible] Source Ck. ok
Background .08 Probe HP 210

Grid Location	Loose Activ. dpm/100cm²	Fixed Activ. mR/hr
F-1	MDA	.10
F-2	MDA	.12
F-3	MDA	.12
F-4	MDA	.08
F-5	MDA	.08
F-6	MDA	.10
F-7	MDA	.11
F-8	MDA	.08
F-9	MDA	.10
F-10	MDA	.08
F-11	MDA	.08
F-12	MDA	.10
F-13	MDA	.10
F-14	MDA	.10
F-15	MDA	.10
F-16	MDA	.08
F-17	MDA	.10
F-18	MDA	.10
F-19	MDA	.12
F-20	MDA	.09
F-21	MDA	.10
F-22	307	.12
F-23	377	.10
F-24	MDA	.11
F-25	MDA	.08
F-26	MDA	.08
F-27	MDA	.08
F-28	MDA	.12
F-29	MDA	.12
F-30	MDA	.12
F-31	MDA	.10
F-32	MDA	.10
F-33	533	.08
F-34	404	.10
F-35	MDA	.10
F-36	MDA	.12
F-37	MDA	.08
F-38	MDA	.08
F-39	MDA	.12
F-40	339	.16
F-41	323	.12
F-42	646	.10
F-43	MDA	.12
F-44	MDA	.14
F-45	436	.10
F-46	436	.10
F-47	MDA	.14
F-48	598	.10
F-49	MDA	.14
F-50	MDA	.12
F-51	MDA	.14
F-52	356	.12
F-53	MDA	.10
F-54	679	.12
F-55	3[illegible]	.14
F-56	420	.11
F-57	MDA	.10
F-58	MDA	.10
F-59	MDA	.10
F-60	404	.09
F-61	533	.10
F-62	743	.11
F-63	MDA	.12
F-64	MDA	.12
F-65	MDA	.10
F-66	526	.16
F-67	358	.12
F-68	MDA	.10
F-69	MDA	.14
F-70	MDA	.13
F-71	485	.12
F-72	356	.16
F-73	MDA	.14
F-74	MDA	.14
F-75	MDA	.12
F-76	409	.12
F-77	MDA	.10
F-78	MDA	.08
F-79	MDA	.10
F-80	MDA	.13
F-81	MDA	.12
F-82	MDA	.11
F-83	MDA	.12
F-84	MDA	.14

Surveyed by: [illegible]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 2 of 3
Area E

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ____ Source Check 155 cpm
Background 68 cpm Corr.Factor 16.16 dpm/cpm
Probe HP210

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .04 Probe HP210

MDA = 307 dpm/smear

Grid Location	Loose Activ. dpm/100cm²	Fixed Activ. mR/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
E-85	MDA	.11	E-113	MDA	.12	E-143	MDA	.10
E-86	MDA	.10	E-114	MDA	.11	E-144	MDA	.11
E-87	MDA	.10	E-116	MDA	.12	E-145	MDA	.10
E-88	MDA	.14	E-117	MDA	.09	E-146	MDA	.09
E-89	323	.08	E-118	MDA	.12	E-147	MDA	.10
E-90	MDA	.08	E-119	MDA	.12	E-148	MDA	.11
E-91	MDA	.10	E-120	MDA	.11	E-149	MDA	.08
E-92	MDA	.10	E-121	MDA	.10	E-150	MDA	.09
E-93	MDA	.10	E-122	MDA	.11	E-151	MDA	.08
E-94	MDA	.10	E-123	MDA	.11	E-152	MDA	.10
E-95	MDA	.12	E-124	MDA	.11	E-153	525	.10
E-96	MDA	.10	E-126	MDA	.10	E-154	MDA	.12
E-97	MDA	.08	E-127	MDA	.11	E-155	MDA	.11
E-98	MDA	.09	E-128	MDA	.11	E-156 Elevator	MDA	.08
E-99	MDA	.08	E-129	MDA	.10	E-157	MDA	.10
E-100	MDA	.10	E-130	MDA	.12	E-158	MDA	.12
E-101	MDA	.08	E-131	MDA	.10	E-159	MDA	.06
E-102	MDA	.10	E-132	MDA	.12	E-160	5010	.09
E-103	MDA	.10	E-133	MDA	.10	E-161	MDA	.09
E-104	MDA	.06	E-134	MDA	.12	E-162	MDA	.10
E-105	MDA	.06	E-135	MDA	.12	E-163	MDA	.12
E-106	MDA	.11	E-136	MDA	.12	E-164	MDA	.14
E-107	356	.12	E-137	469	.12	E-165	MDA	.11
E-108	MDA	.09	E-138	MDA	.10	E-166	MDA	.12
E-109	MDA	.09	E-139	356	.12	E-167	MDA	.12
E-110	MDA	.10	E-140	MDA	.12	E-168	MDA	.10
E-111	388	.10	E-141	MDA	.12	E-169	MDA	.11
E-112	MDA	.11	E-142	MDA	.12	E-170	MDA	.12

Summarized by: [illegible]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 3 of 3
Area F

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ok Source Check 155 cpm
Background 68 cpm Corr.Factor 1.16 dpm/cpm
Probe HP210

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .08 Probe HP210

MDA = 307 dpm/smear

Grid Location	Loose Activ. dpm/smear	Fixed Activ. mr/hr
F-171	MDA	.08
F-172	MDA	.10
F-173	MDA	.10
F-174	MDA	.14
F-175	MDA	.12
F-176	356	.10
F-177	323	.10
smears of		pass
then points		on
south	wall.	
F-178	MDA	.08
F-179	MDA	.14
F-180	MDA	.10
F-181	MDA	.14
F-182	MDA	.08
F-183	MDA	.10
F-184	MDA	.11
F-185	MDA	.10
F-186	MDA	.10
F-187	MDA	.12
F-188	372	.08
F-189	MDA	.06
F-190	MDA	.08
F-191	MDA	.10
F-192	MDA	.10
F-193	MDA	.10
F-194	MDA	.08
F-195	MDA	.08
F-196	MDA	.10
F-197	MDA	.08
F-198	MDA	.14
F-199	MDA	.12
F-200	MDA	.16
F-201	MDA	.08
F-202	MDA	.08
F-203	MDA	.08
F-204	MDA	.08
F-205	MDA	.10
F-206	MDA	.10
F-207	MDA	.10
F-208	MDA	.08
F-209	MDA	.12
F-210	MDA	.08
F-211	MDA	.08
F-212	MDA	.10
F-213	MDA	.10

Grid Location	Loose Activ	Fixed Activ.

Surveyed by:

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 1 of 1
Area F. Ceiling

Loose Surface Activity

Meter MS-2 Ser.# _____
Cal. Date 4/ Source Check 188 CCPM
Background 281 CPM Corr.Factor 13320DPM per CPM
Probe SPA-3

MDA = ~~310~~ 519 DPM

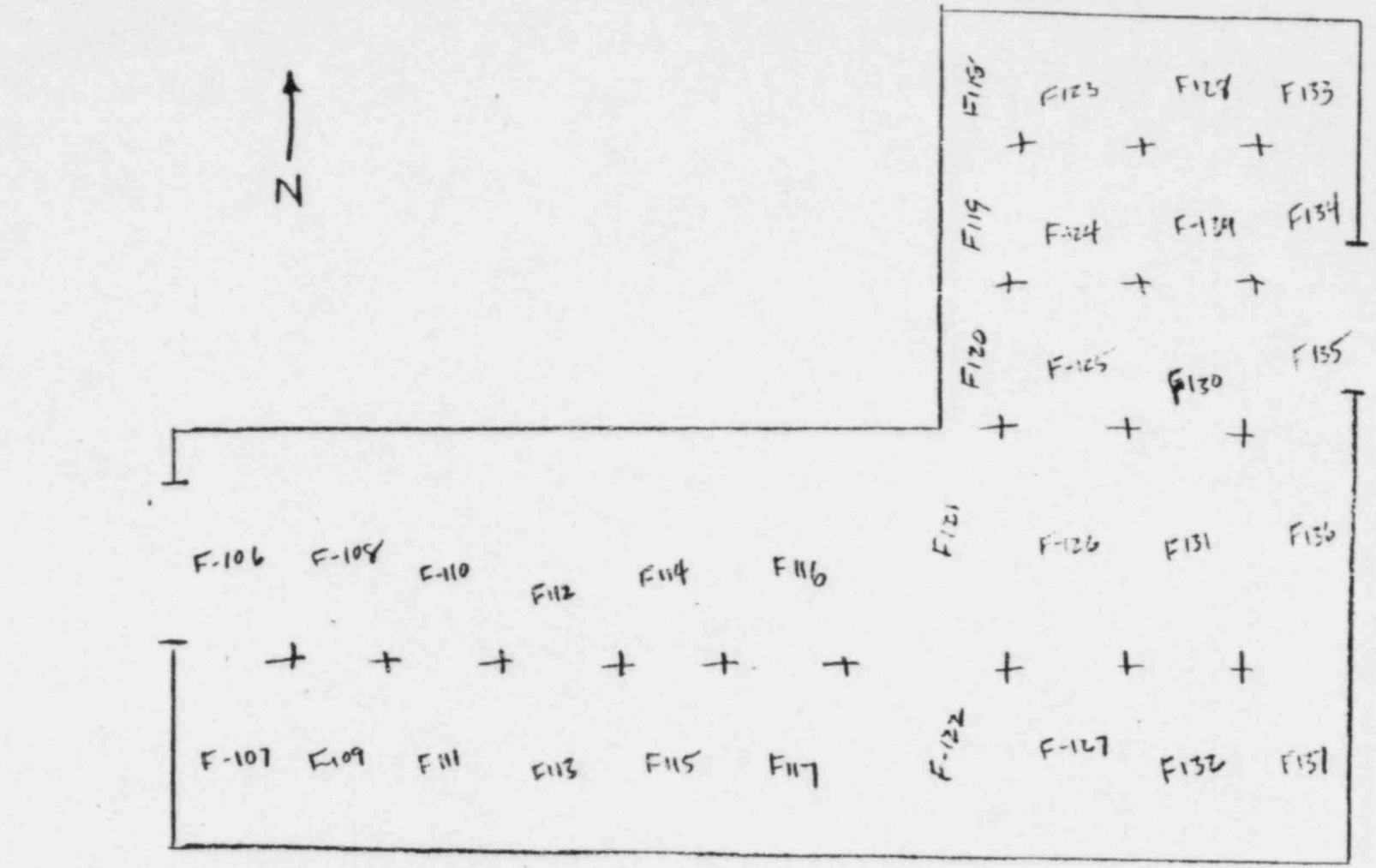
Fixed Activity

Meter E-120 Ser.# 55-40
Cal. Date 4/ Source Ck. ✓
Background .1 Probe HP-10

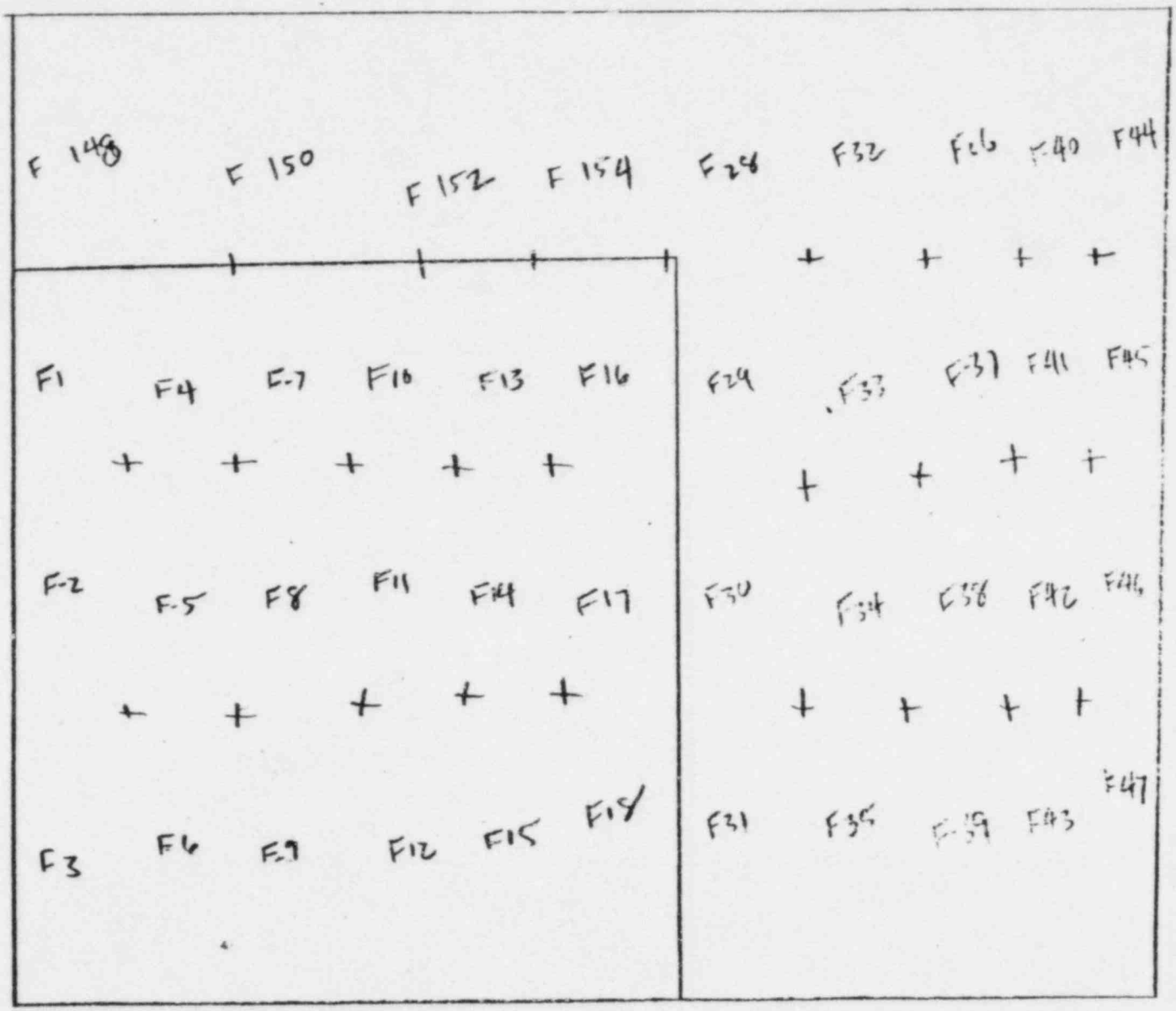
Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
1	MDA	.12	29	MDA	.16			
2	MDA	.14	30	MDA	.14			
3	MDA	.14	31	MDA	.14			
4	MDA	.12	32	MDA	.12			
5	MDA	.14	33	MDA	.12			
6	MDA	.16	34	MDA	.12			
7	MDA	.12	35	MDA	.12			
8	MDA	.10	36	MDA	.16			
9	MDA	.12	37	MDA	.12			
10	MDA	.10	38	MDA	.12			
11	MDA	.12	39	MDA	.12			
12	MDA	.10	40	MDA	.16			
13	MDA	.08	41	MDA	.12			
14	MDA	.10	42	MDA	.12			
15	MDA	.10						
16	MDA	.12						
17	MDA	.12						
18	MDA	.14						
19	MDA	.12						
20	MDA	.14						
21	MDA	.16						
22	MDA	.12						
23	MDA	.12						
24	MDA	.12						
25	MDA	.16						
26	MDA	.14						
27	MDA	.14						
28	MDA	.10						

Surveyed by:

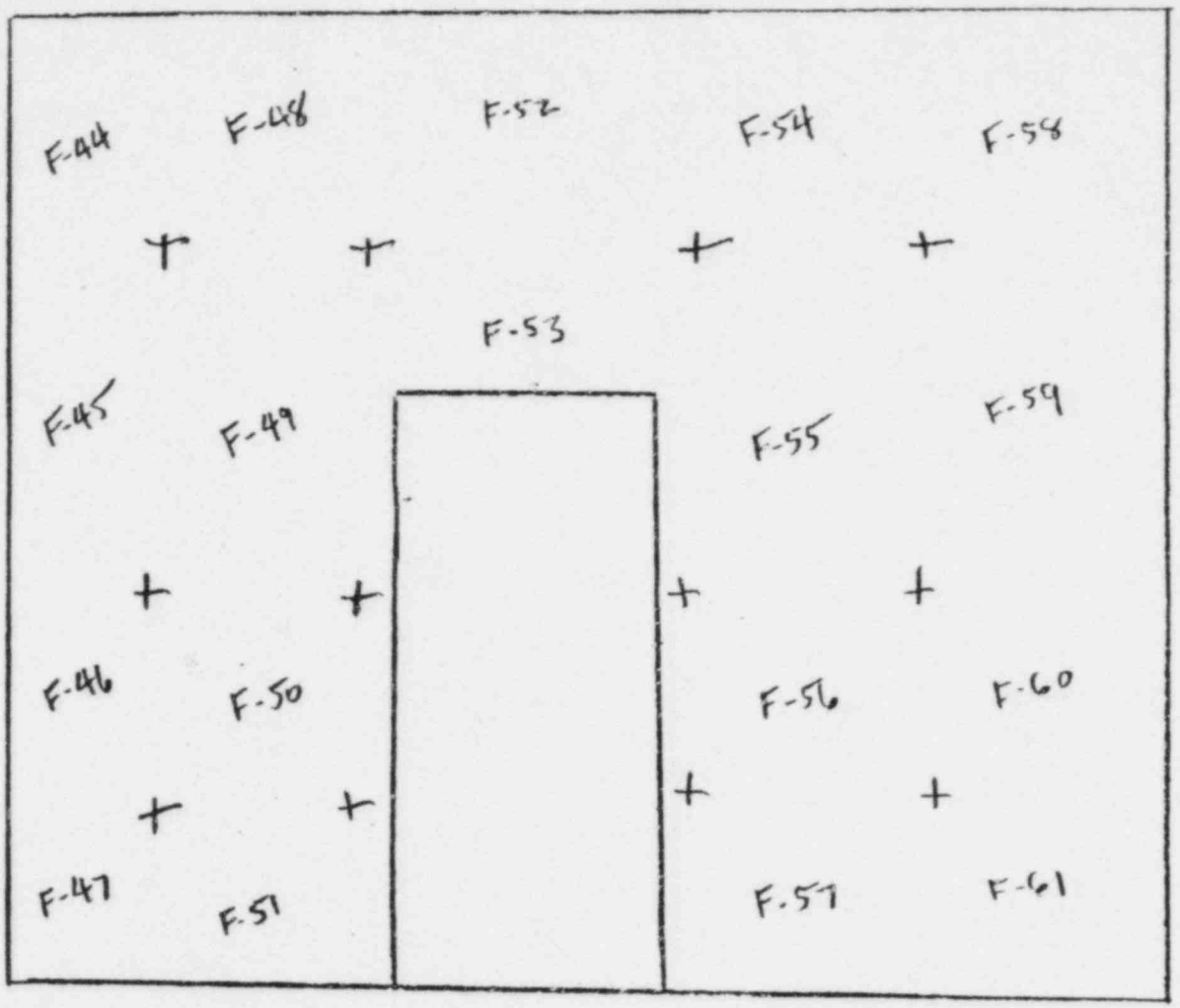
FLOOR OF AREA F



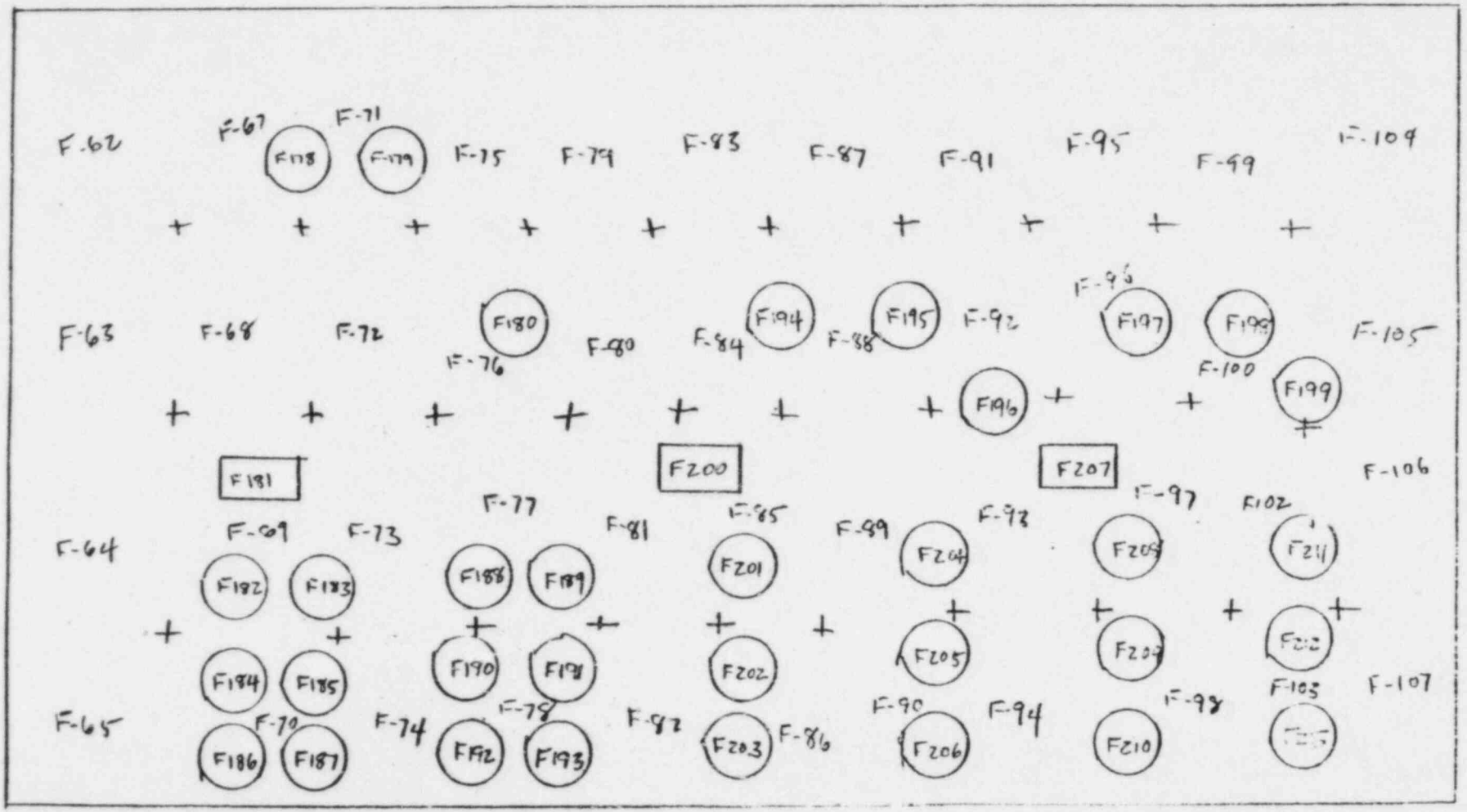
NORTH WALL OF AREA F



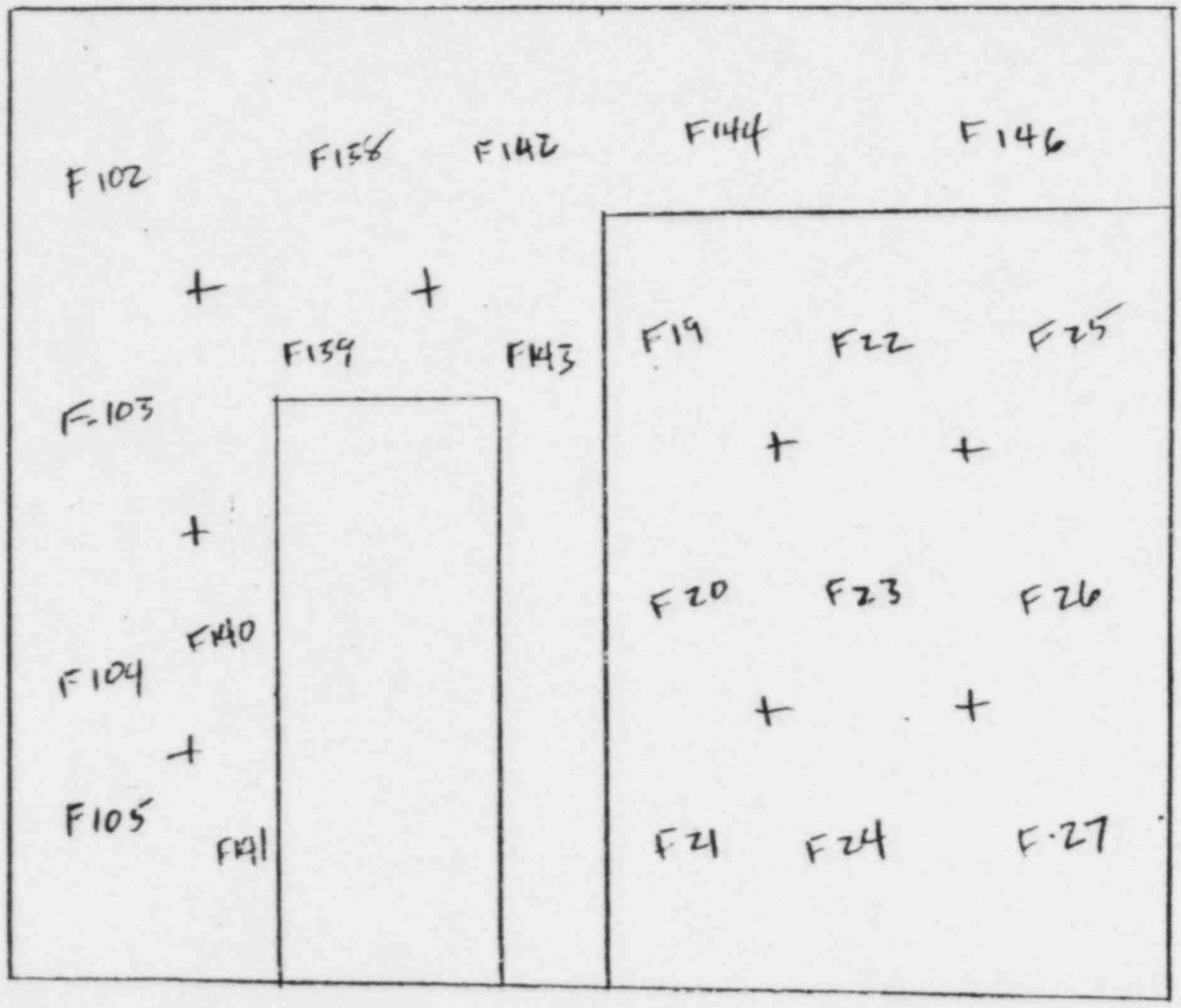
EAST WALL OF AREA F



SOUTH WALL AREA F



WEST WALL OF AREA F



WORK HISTORY AREA G (OLD BATHROOM)

1. Initial survey.
2. Remove sink and toilet.
3. Survey drain lines.
4. Remove and replace drain lines.
5. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 1 of 1
Area G

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date _____ Source Check 1000 C.P.M.
Background 281 CPM Corr.Factor 13.32 DPM per CPM
Probe SPA-3

MDA = 514 DPM

Fixed Activity

Meter E-120 Ser.# 5540
Cal. Date 6-80 Source Ck. ✓
Background .04 Probe HP210

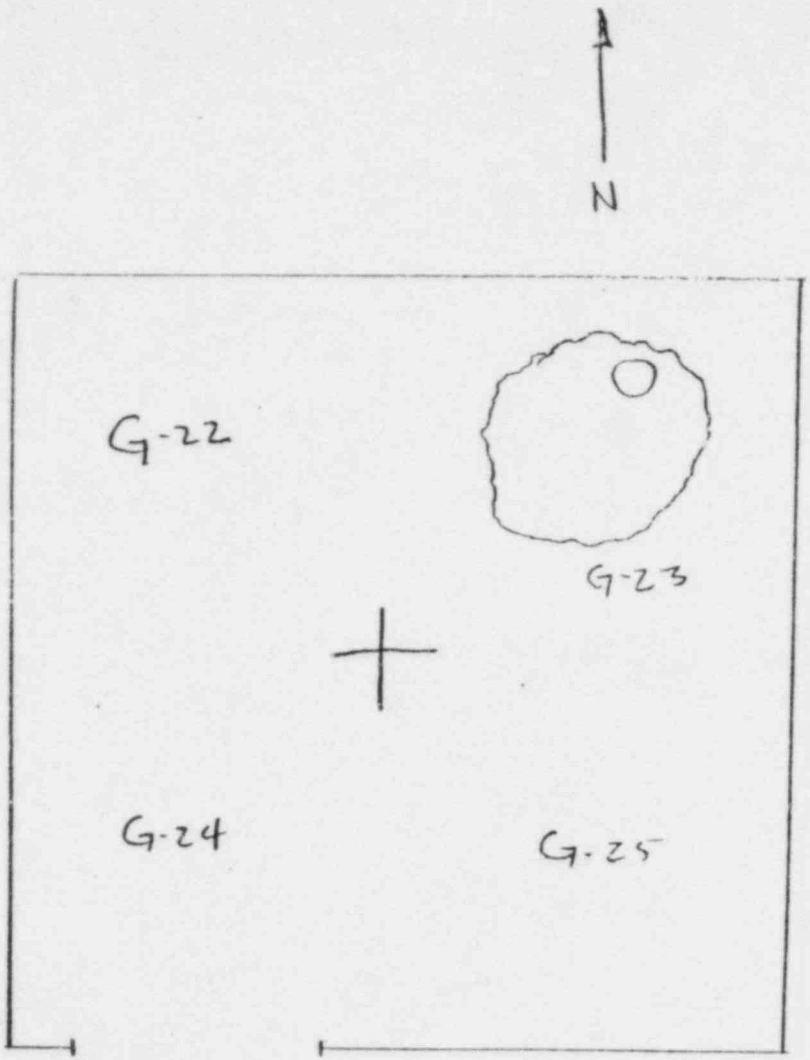
Grid Location	Loose Activ. DPM/100 cm²	Fixed Activ. mR/hr
1	MDA	.12
2	MDA	.12
3	MDA	.20
4	MDA	.10
5	MDA	.10
6	MDA	.12
7	MDA	.08
8	MDA	.10
9	MDA	.12
10	MDA	.10
11	MDA	.12
12	MDA	.14
13	MDA	.09
14	MDA	.10
15	MDA	.13
16	MDA	.10
17	MDA	.12
18	MDA	.18
19	MDA	.10
20	MDA	.20
21	MDA	.20
22	MDA	.12
23	MDA	.20
24	MDA	.10
25	MDA	.20
~~26~~		
~~27~~		
~~28~~		

Grid Location	Loose Activ.	Fixed Activ.
Ceiling-G		
1	MDA	.10
2	MDA	.08
3	MDA	.10
4	MDA	.10
5	MDA	.08

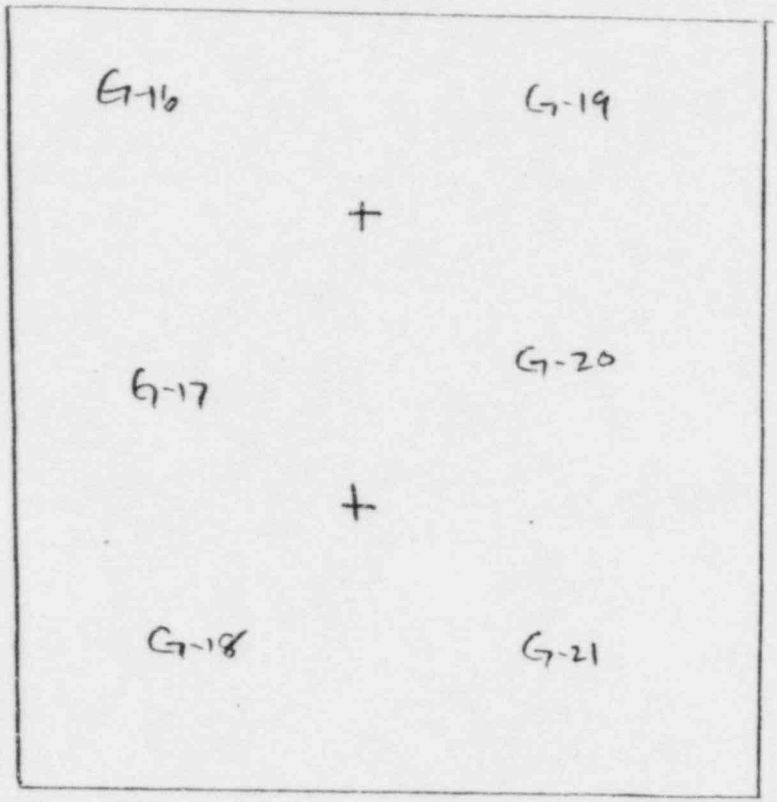
Grid Location	Loose Activ.	Fixed Activ.

Surveyed by: [illegible]

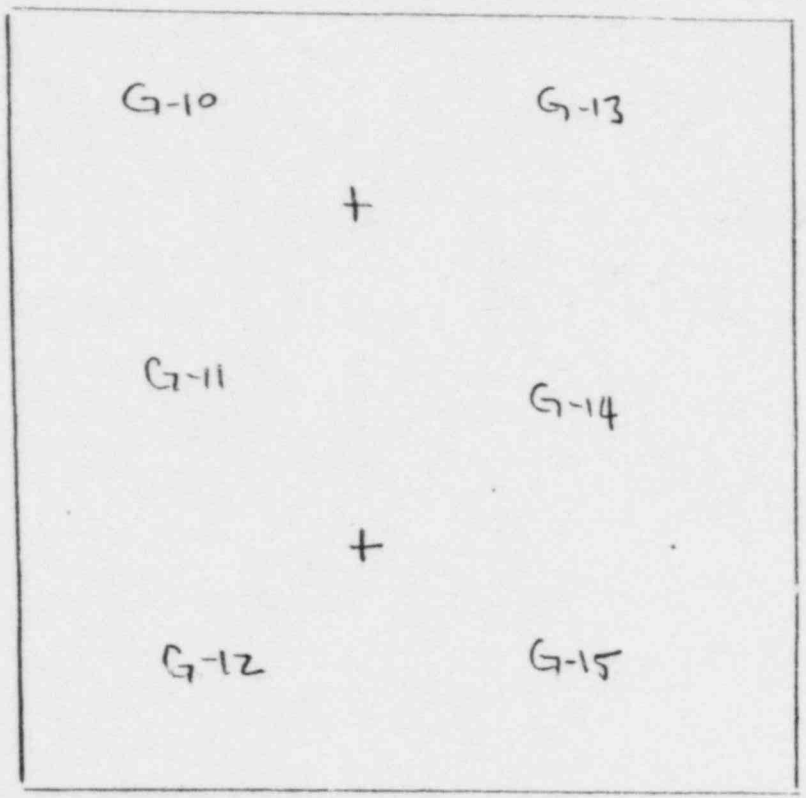
FLOOR AREA G



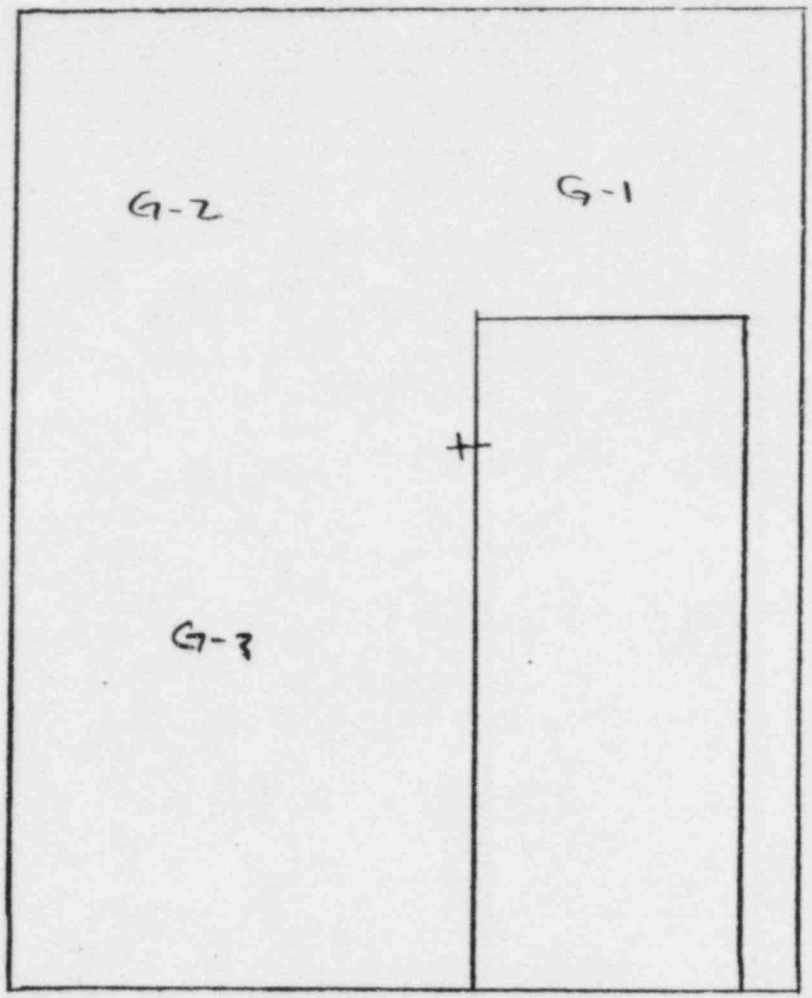
EAST WALL AREA G



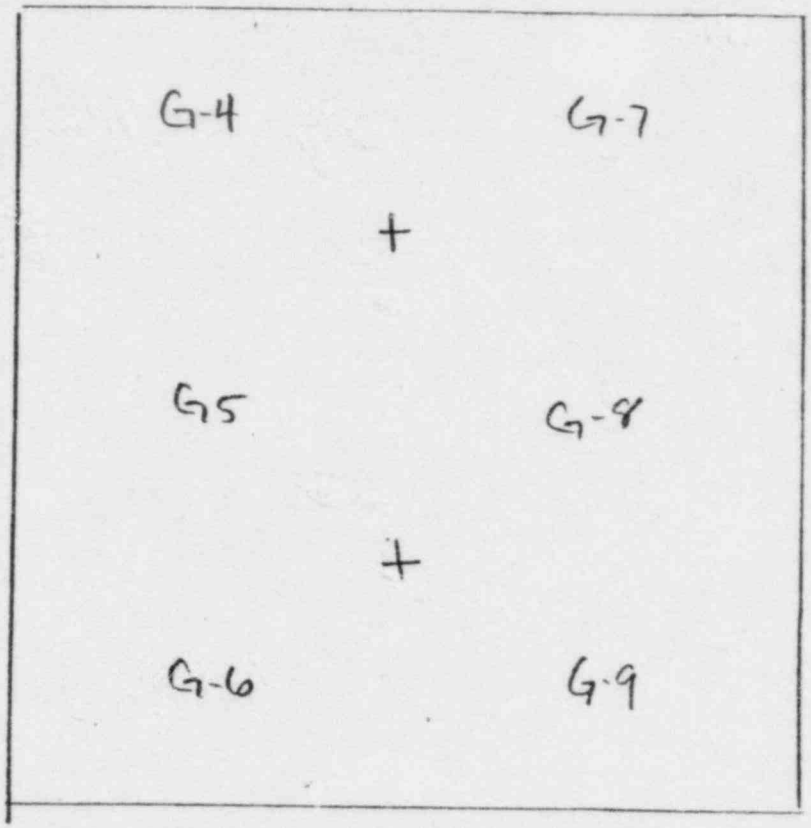
NORTH WALL AREA G



SOUTH WALL AREA G



WEST WALL AREA G



WORK HISTORY OF AREA H

1. Informational survey
2. Wipe down walls.
3. Remove Carpet.
4. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date March 6, 1980 Sheet 1 of 1
Area H

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ok Source Check 106 cpm
Background 252 Corr.Factor 12.15
Probe SPA-3

Fixed Activity

Meter EIZO Ser.# 5540
Cal. Date ok Source Ck. ok
Background .08 Probe HP210

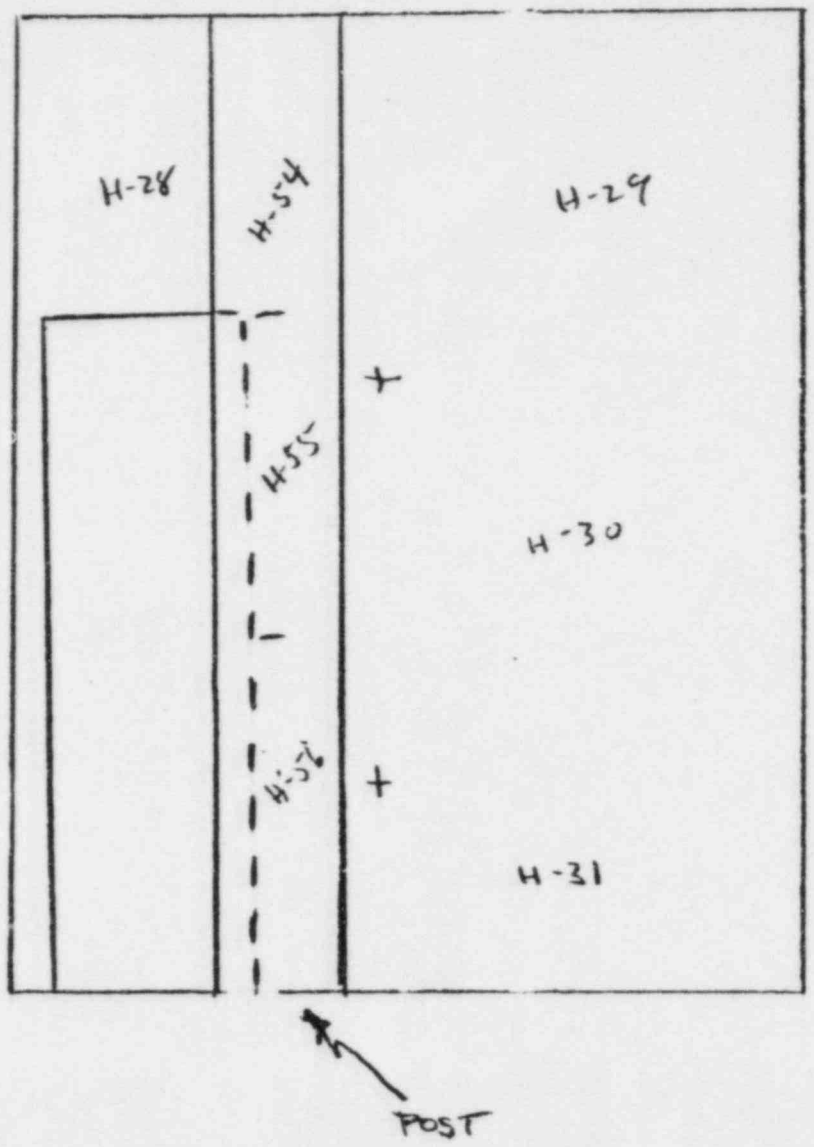
MDA = 450 dpm

Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. mR/Hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
H-1	MDA	.08	H-29	MDA	.12	H-57	MDA	.12
H-2	MDA	.08	H-30	MDA	.12	H-58	MDA	.10
H-3	MDA	.08	H-31	510	.10	H-59	MDA	.11
H-4	MDA	.14	H-32	MDA	.11	H-60	MDA	.10
H-5	MDA	.08	H-33	450	.12	H-61	MDA	.10
H-6	MDA	.08	H-34	MDA	.12	H-62	MDA	.12
H-7	MDA	.11	H-35	MDA	.10	H-63	MDA	.10
H-8	MDA	.08	H-36	MDA	.10	H-64	MDA	.14
H-9	MDA	.08	H-37	MDA	.14	H-65	MDA	.11
H-10	MDA	.10	H-38	MDA	.12	H-66	MDA	.18
H-11	MDA	.14	H-39	MDA	.18	H-67	MDA	.16
H-12	MDA	.08	H-40	MDA	.16	H-68	MDA	.14
H-13	MDA	.08	H-41	MDA	.10	H-69	MDA	.17
H-14	MDA	.10	H-42	MDA	.16	H-70	MDA	.17
H-15	MDA	.12	H-43	MDA	.14	H-71	MDA	.14
H-16	MDA	.10	H-44	MDA	.10	H-72	MDA	.12
H-17	MDA	.10	H-45	571	.10	H-73	MDA	.10
H-18	MDA	.14	H-46	MDA	.16	H-74	MDA	.14
H-19	MDA	.09	H-47	MDA	.12	H-75	MDA	.18
H-20	MDA	.10	H-48	MDA	.10	H-76	MDA	.16
H-21	MDA	.10	H-49	MDA	.12			
H-22	MDA	.10	H-50	MDA	.06			
H-23	MDA	.14	H-51	MDA	.10			
H-24	MDA	.12	H-52	MDA	.12			
H-25	MDA	.13	H-53	MDA	.10			
H-26	MDA	.14	H-54	MDA	.12			
H-27	MDA	.14	H-55	MDA	.10			
H-28	MDA	.12	H-56	MDA	.10			

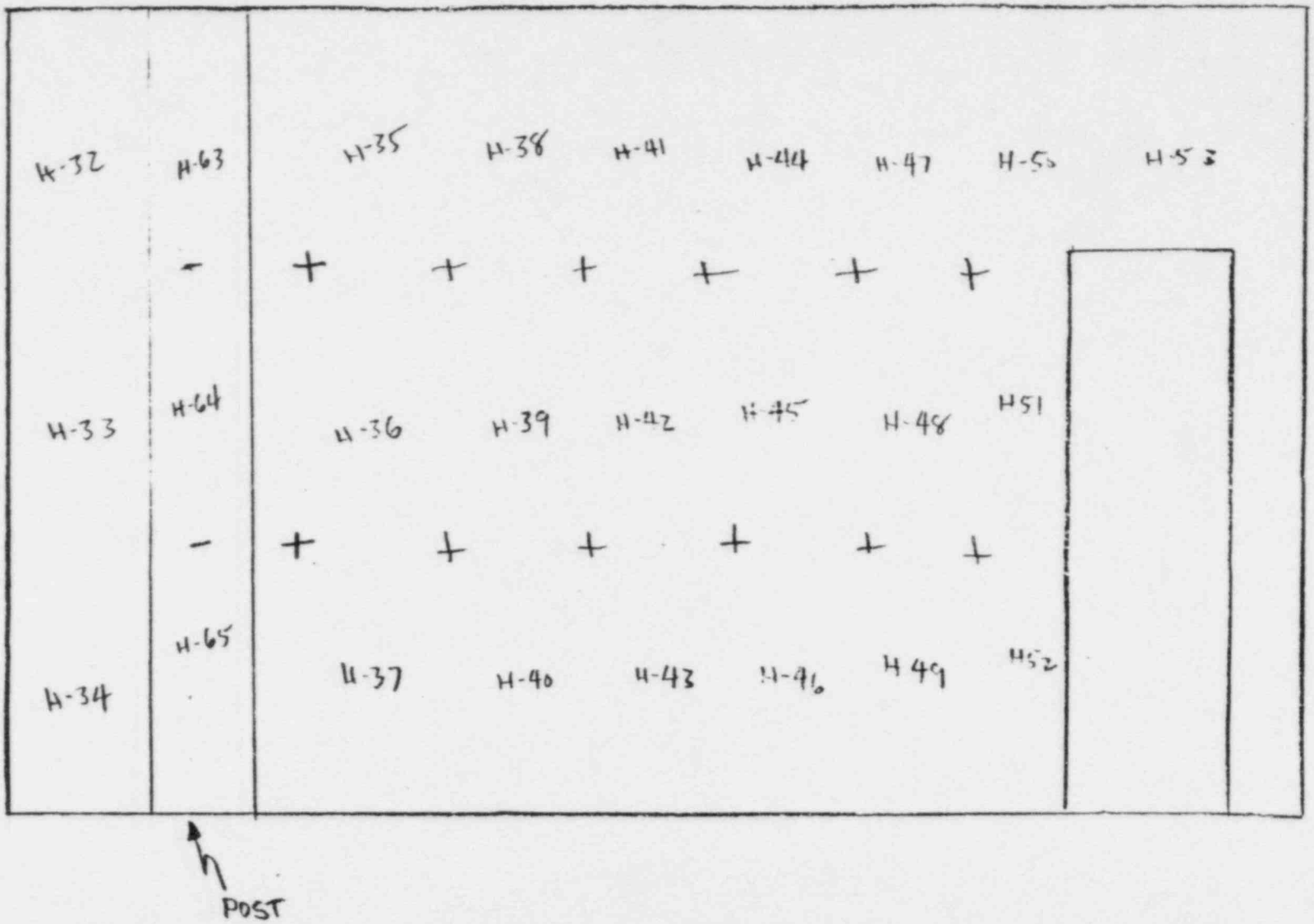
QA.1

H-66
H-67
H-68
H-69
H-70
H-71
H-73
H-72
H-74
H-76
H-75
N

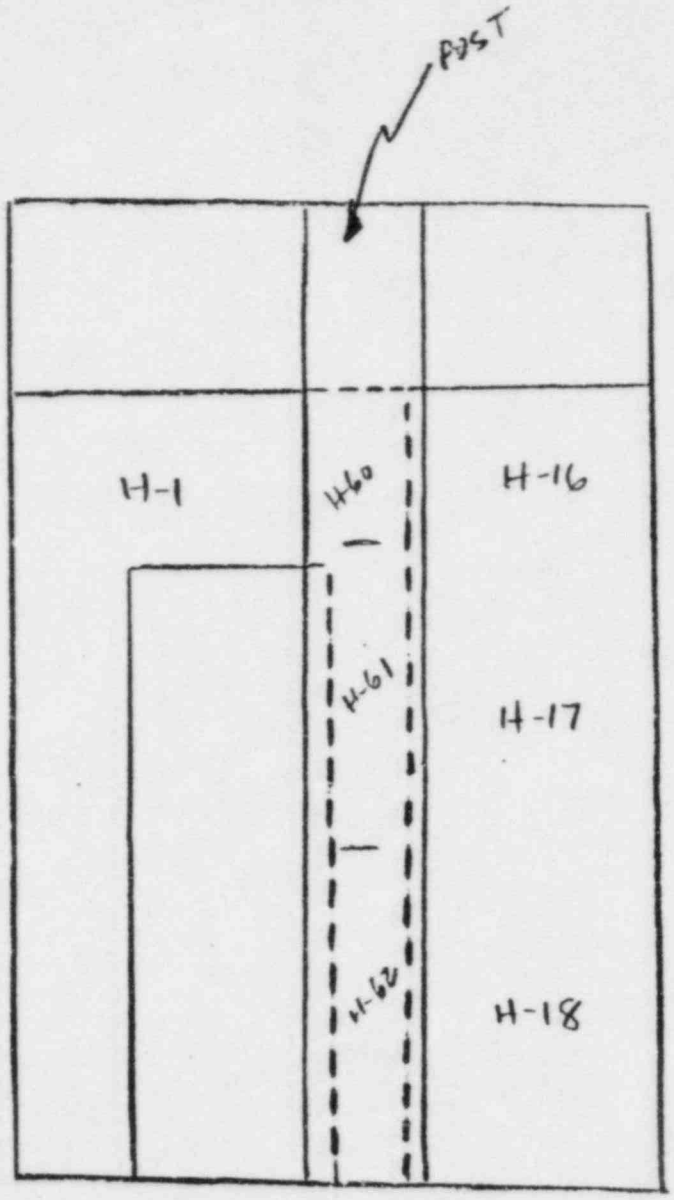
NORTH WALL OF AREA H



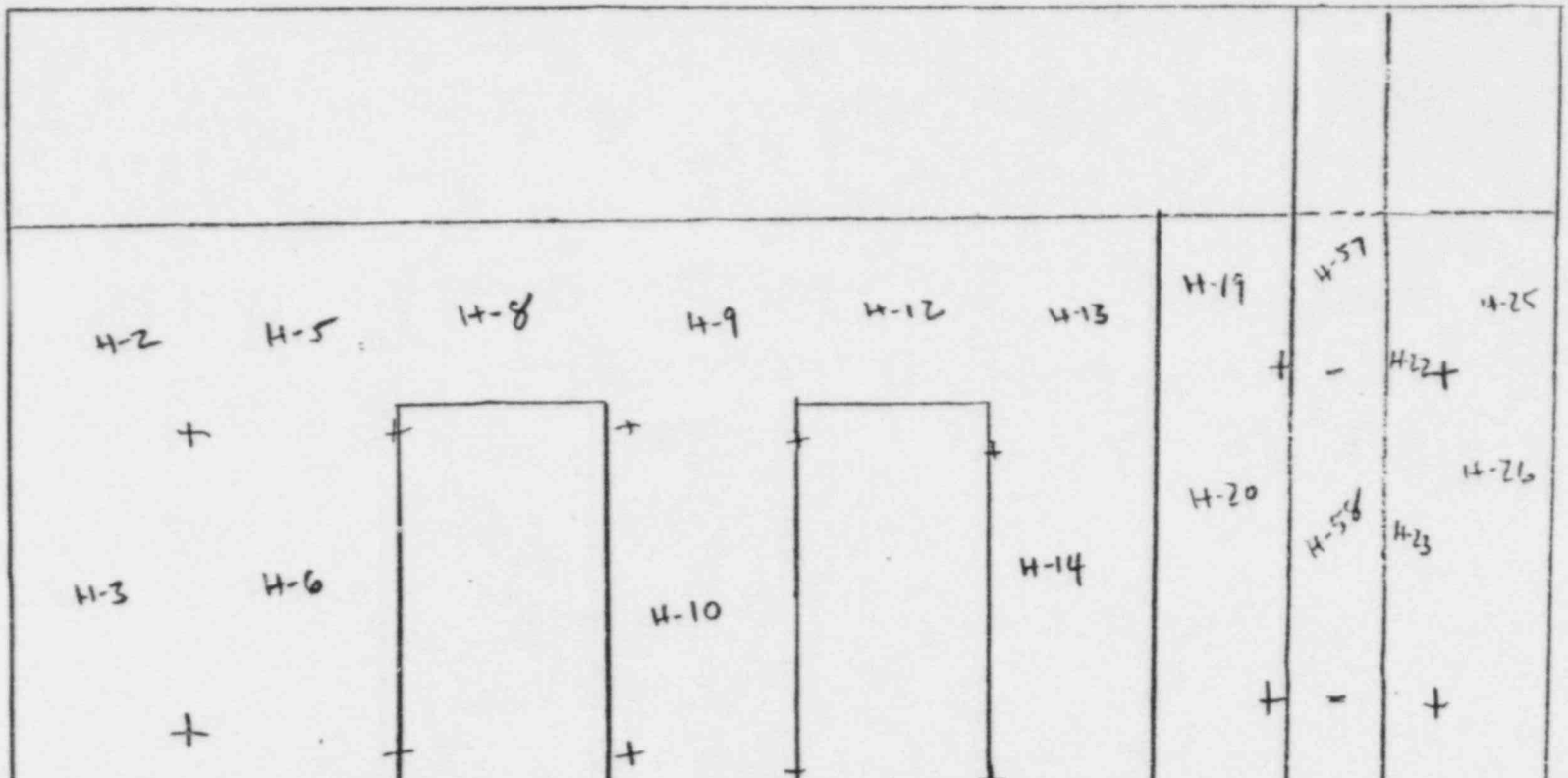
EAST WALL OF AREA H



SOUTH WALL



WEST WALL AREA H



WORK HISTORY OF CEILING IN AREAS A,B, C, D, E AND H

1. Informational Survey

2. Close Out Survey

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-7-80 Sheet 1 of 2
Area CEILING OF A, B, C, D, E, & H.

Loose Surface Activity

Meter PS-2 Ser.# 164
Cal. Date ok Source Check 167 cpm
Background 63 cpm Corr.Factor 14.99 DPM/CPM
Probe HP210

Fixed Activity

Meter E120 Ser.# 5340
Cal. Date ok Source Ck. ok
Background .04 Probe HP210

MDA = 270 DPM

Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. mR/HR	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
A 1	MDA	.12	C 29	345	.14			
A 2	MDA	.12	C 30	MDA	.14			
A 3	MDA	.12	C 31	315	.08			
A 4	MDA	.10	C 32	MDA	.10			
A 5	MDA	.14						
A 6	MDA	.12						
A 7	MDA	.12						
A 8	MDA	.12						
A 9	MDA	.12						
A 10	MDA	.12						
B 11	MDA	.06						
B 12	MDA	.08						
B 13	MDA	.09						
B 14	MDA	.06						
B 15	300	.08						
B 16	MDA	.08						
B 17	MDA	.06						
B 18	MDA	.06						
B 19	MDA	.08						
B 20	315	.06						
C 21	330	.12						
C 22	MDA	.10						
C 23	944	.06						
C 24	MDA	.07						
C 25	MDA	.06						
C 26	360	.12						
C 27	MDA	.08						
C 28	675	.10						

Surveyed by: [signature]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date March 7, 1980 Sheet 2 of 2
Area Ceiling above A, B, C, H, DIE

Loose Surface Activity

Meter MS-2 Ser.# 581
Cal. Date ok Source Check 212 CPM
Background 260 Corr.Factor 11.81 DPM/CPM
Probe SPA-3

Fixed Activity

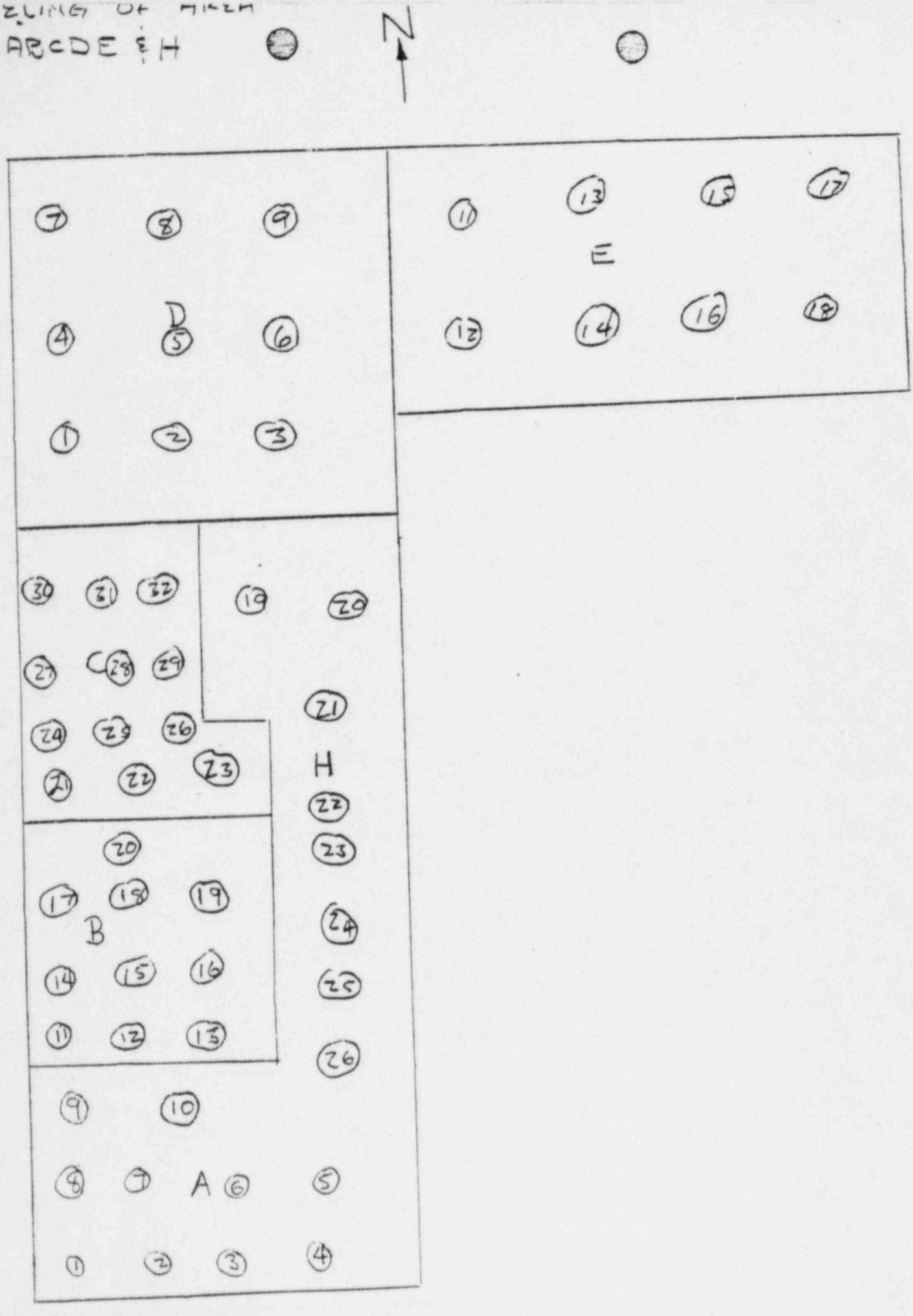
Meter E 120 Ser.# 5340
Cal. Date ok Source Ck. ok
Background .05 Probe HP210

MDA = 449 DPM

Grid Location	Loose Activ. DPM/sq cm	Fixed Activ. mr/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
D 1	MDA	.08						
D 2	MDA	.10						
D 3	MDA	.06						
D 4	MDA	.05						
D 5	MDA	.10						
D 6	MDA	.12						
D 7	MDA	.14						
D 8	520	.12						
D 9	MDA	.10						
E 10	MDA	.08						
E 11	MDA	.10						
E 12	MDA	.09						
E 13	MDA	.08						
E 14	MDA	.10						
E 15	MDA	.06						
E 16	MDA	.08						
E 17	MDA	.06						
E 18	MDA	.05						
H 19	MDA	.08						
H 20	MDA	.10						
H 21	MDA	.08						
H 22	MDA	.12						
H 23	MDA	.10						
H 24	MDA	.10						
H 25	MDA	.10						
H 26	MDA	.08						

Surveyed by: [signature]

CIZLING OF AREA
ABCDE & H



WORK HISTORY AREA I (OLD HALLWAY)

1. Informational survey
2. Wiped down walls.
3. Close out survey

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 1 of 1
Area I

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ok Source Check 155 cpm
Background 68 Corr.Factor 16.16 dpm/cpm
Probe HP210

Fixed Activity

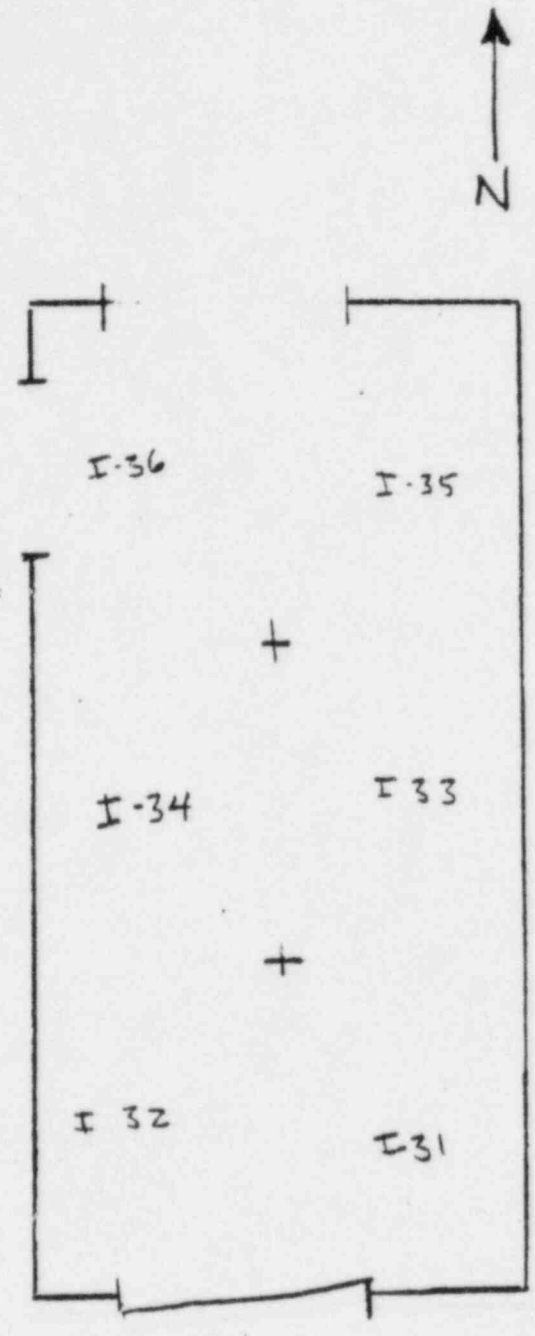
Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .08 Probe HP210

MDA = 307 dpm/sq.cm

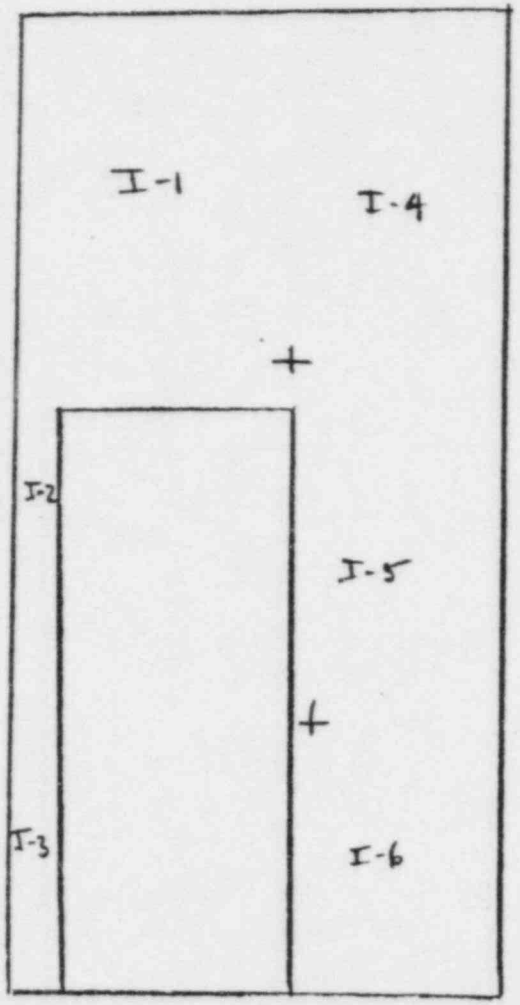
Grid Location	Loose Activ. dpm/sq.cm	Fixed Activ. mr/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
I-1	MDA	.12	I-29	MDA	.12			
I-2	MDA	.11	I-30	MDA	.10			
I-3	MDA	.14	I-31	MDA	.13			
I-4	356	.12	I-32	MDA	.12			
I-5	MDA	.12	I-33	MDA	.16			
I-6	MDA	.14	I-34	MDA	.12			
I-7	MDA	.12	I-35	MDA	.11			
I-8	MDA	.10	Ceiling of AREA I - Hot Work					
I-9	MDA	.12						
I-10	MDA	.12	1	MDA	.10			
I-11	MDA	.12	2	MDA	.08			
I-12	MDA	.12	3	MDA	.07			
I-13	339	.10	4	MDA	.10			
I-14	MDA	.10	5	MDA	.08			
I-15	MDA	.14						
I-16	MDA	.10						
I-17	MDA	.10						
I-18	388	.13						
I-19	MDA	.12						
I-20	MDA	.12						
I-21	485	.12						
I-22	388	.10						
I-23	MDA	.08						
I-24	566	.10						
I-25	452	.12						
I-26	MDA	.10						
I-27	MDA	.10						
I-28	MDA	.12						

Surveyed by:

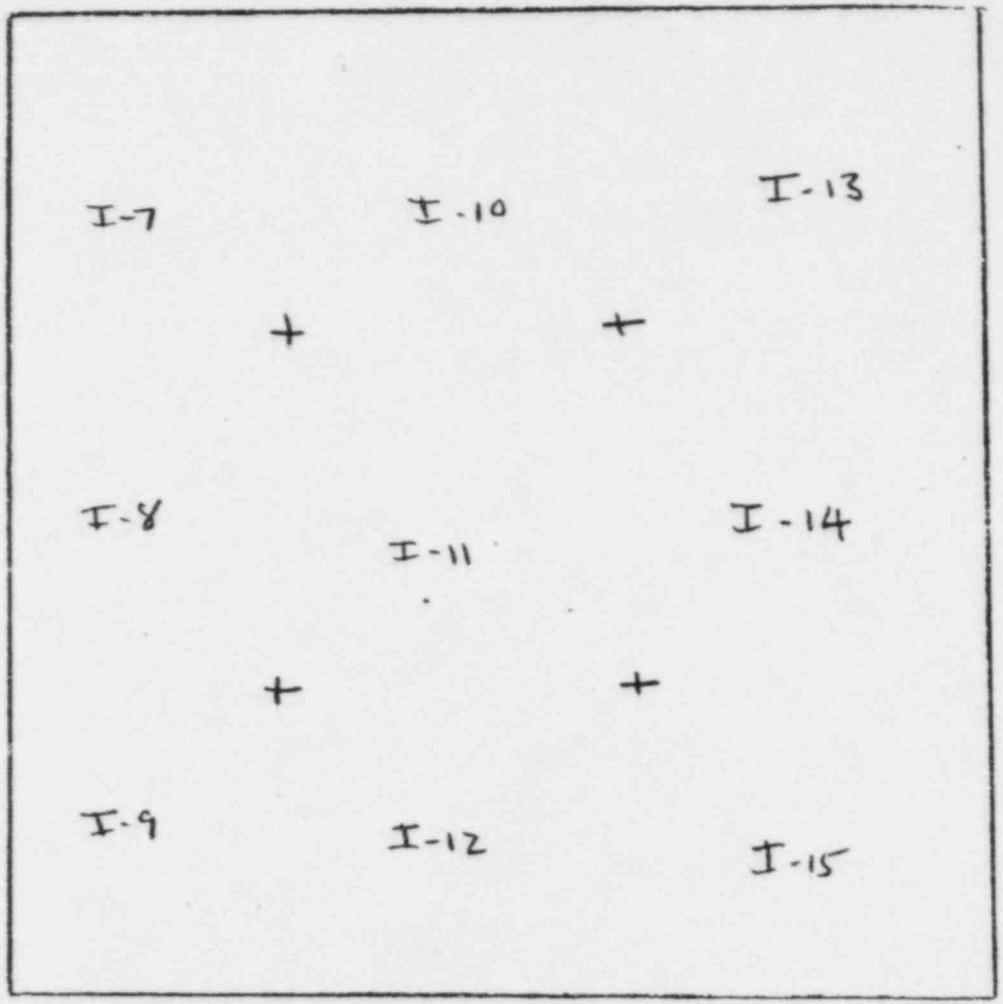
FLOOR OF AREA I



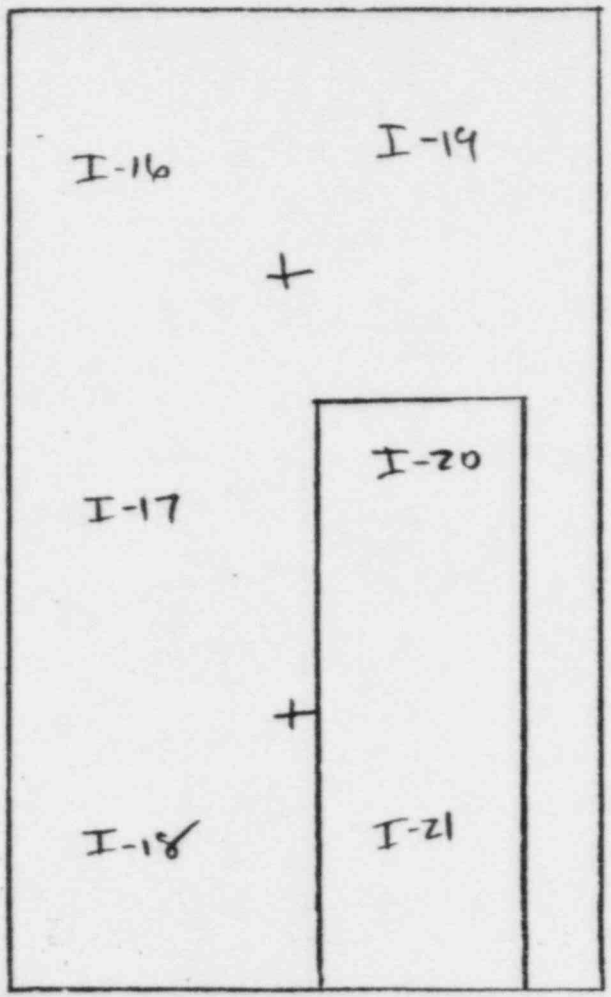
NORTH WALL OF AREA I



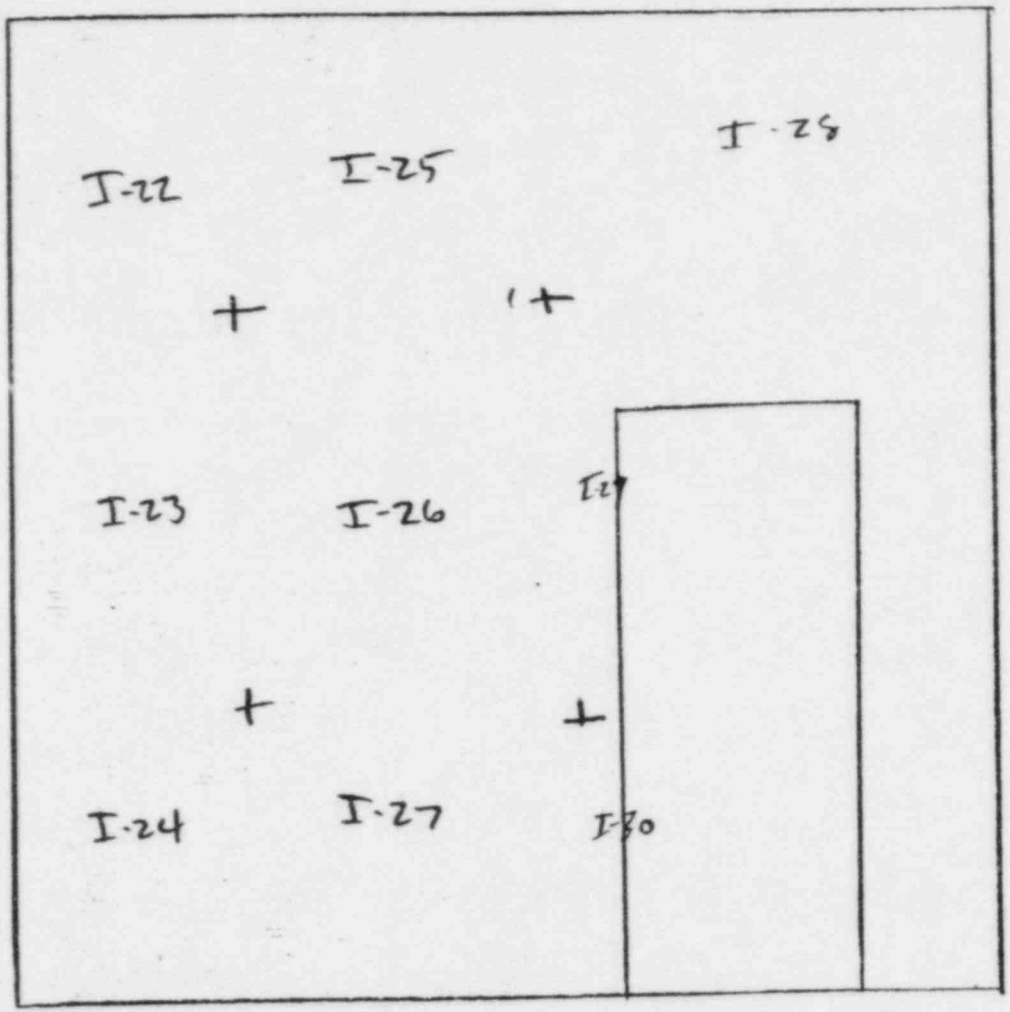
EAST WALL OF AREA I



SOUTH WALL OF AREA I



WEST WALL OF AREA I



WORK HISTORY AREA J (OLD SERVICE AREA)

1. Informational surveys
2. Major portion in front of cells used as control point.
3. Removed partition wall.
4. Scaled concrete off floor.
5. Removed paint off front of calls.
6. Removed all unnecessary piping and conduit.
7. Wiped down all overhead and crane.
8. Performed close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 1 of 4
Area J

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ____ Source Check 188 CC CPM
Background 281 CPM Corr. Factor 13.32 Dim Tec CPM
Probe SPA-3

MDA = 519 DPM

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background 410 Probe HP210

Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. mr/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
1	MDA	.18	29	MDA	.12	57	MDA	.10
2	MDA	.18	30	MDA	.10	58	MDA	.12
3	MDA	.18	31	MDA	.07	59	MDA	.12
4	MDA	.14	32	MDA	.08	60	MDA	.10
5	MDA	.14	33	413	.12	61	MDA	.11
6	MDA	.08	34	MDA	.14	62	MDA	.08
7	MDA	.18	35	MDA	.10	63	MDA	.12
8	MDA	.12	36	MDA	.08	64	MDA	.14
9	MDA	.12	37	MDA	.09	65	MDA	.14
10	MDA	.12	38	MDA	.12	66	MDA	.10
11	MDA	.12	39	MDA	.12	67	MDA	.08
12	MDA	.14	40	MDA	.10	68	MDA	.12
13	MDA	.12	41	MDA	.10	69	MDA	.12
14	MDA	.14	42	MDA	.09	70	MDA	.12
15	MDA	.14	43	MDA	.12	71	MDA	.09
16	MDA	.10	44	MDA	.12	72	626	.08
17	MDA	.08	45	MDA	.12	73	MDA	.14
18	MDA	.09	46	MDA	.10	74	MDA	.10
19	MDA	.12	47	MDA	.09	75	MDA	.10
20	MDA	.12	48	MDA	.12	76	MDA	.09
21	MDA	.06	49	MDA	.12	77	MDA	.08
22	MDA	.06	50	MDA	.16	78	MDA	.14
23	MDA	.16	51	MDA	.09	79	MDA	.10
24	MDA	.12	52	MDA	.10	80	MDA	.10
25	MDA	.12	53	MDA	.10	81	MDA	.08
26	MDA	.14	54	MDA	.10	82	MDA	.09
27	MDA	.08	55	MDA	.12	83	MDA	.10
28	MDA	.10	56	MDA	.10	84	MDA	.10

Surveyed by: [illegible]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 2 of 4
Area J

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ____ Source Check 185CCPM
Background 2x1CPM Corr.Factor 13.32 DPM/cpm
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .10 Probe HP210

MDA = 519 DPM

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
85	MDA	.10	J-113	MDA	.10	J-146	MDA	.12
86	MDA	.10	J-114	MDA	.14	J-147	MDA	.08
87	MDA	.08	J-115	MDA	.12	J-148	MDA	.10
88	MDA	.08	J-116	MDA	.08	J-149	MDA	.10
89	MDA	.08	J-117	MDA	.14	J-150	MDA	.12
90	MDA	.10	J-118	MDA	.14	J-151	559	.14
91	MDA	.10	J-119	MDA	.16	J-152	MDA	.12
92	MDA	.10	J-120	MDA	.12	J-153	MDA	.14
J-93	MDA	.08	J-121	MDA	.14	J-154	MDA	.12
J-94	MDA	.10	J-122	MDA	.14	J-155	MDA	.10
J-95	MDA	.10	J-123	MDA	.12	J-156	MDA	.14
J-96	MDA	.10	J-124	MDA	.11	J-157	MDA	.12
J-97	MDA	.10	J-125	MDA	.16	J-158	MDA	.10
J-98	MDA	.10	J-126	MDA	.10	J-159	MDA	.10
J-99	MDA	.13	J-127	MDA	.12	J-160	MDA	.10
J-100	MDA	.16	J-128	MDA	.14	J-161	MDA	.10
J-101	MDA	.10	J-129	MDA	.12	J-162	MDA	.10
J-102	MDA	.10	J-130	MDA	.10	J-163	MDA	.10
J-103	MDA	.12	J-131	MDA	.09	J-164	MDA	.16
J-104	MDA	.12	J-132	MDA	.08	J-165	MDA	.09
J-105	MDA	.16	J-133	MDA	.12	J-166	MDA	.10
J-106	MDA	.10	J-134	MDA	.12	J-167	MDA	.12
J-107	MDA	.20	J-135	MDA	.10	J-168	MDA	.12
J-108	MDA	.12	J-136	MDA	.16	J-169	MDA	.09
J-109	MDA	.10	J-137	MDA	.07	J-170	MDA	.09
J-110	MDA	.10	J-138	MDA	.12	J-171	MDA	.08
J-111	MDA	.10	J-139	MDA	.10	J-172	MDA	.15
J-112	MDA	.08	J-140	MDA	.10	J-173	MDA	.10

Surveyed by: [illegible]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 7-11-80 Sheet 3 of 4
Area J

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ____ Source Check 188 CPM
Background 281 CPM Corr. Factor 13.32 DPM/CPM
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5-842
Cal. Date ~~~ Source Ck. ~~~
Background .10 Probe HP210

MDA = 519 DPM

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
174	MDA	.10	202	MDA	.12	230	515	.12
175	MDA	.11	203	MDA	.12	231	MDA	.10
176	MDA	.12	204	MDA	.13	232	MDA	.12
177	MDA	.12	* 205	287	.16	233	MDA	.14
178	MDA	.12	206	MDA	.16	234	MDA	.12
179	MDA	.09	207	MDA	.12	235	MDA	.10
180	MDA	.13	208	MDA	.1	236	MDA	.12
181	MDA	.12	209	MDA	.12	237	MDA	.14
182	MDA	.10	210	MDA	.15	238	MDA	.12
183	MDA	.11	211	MDA	.16	239	MDA	.08
184	MDA	.14	212	MDA	.10	240	MDA	.10
185	MDA	.12	213	332	.10	241	MDA	.18
186	MDA	.12	214	MDA	.10	242	MDA	.14
187	MDA	.14	215	MDA	.12	243	MDA	.17
188	MDA	.16	216	MDA	.12	244	MDA	.14
189	MDA	.20	217	MDA	.18	245	MDA	.16
190	MDA	.20	218	467	.18	246	MDA	.16
191	MDA	.18	219	MDA	.10	247	MDA	.14
192	MDA	.17	220	MDA	.12	248	MDA	.12
193	MDA	.20	221	MDA	.10	249	MDA	.12
194	MDA	.18	222	MDA	.10	250	MDA	.14
195	MDA	.15	223	MDA	.10	251	MDA	.12
196	MDA	.16	224	MDA	.12	252	MDA	.12
197	MDA	.14	225	MDA	.10	253	MDA	.18
198	MDA	.19	226	MDA	.10	254	MDA	.10
199	MDA	.14	227	MDA	.10	255	MDA	.14
200	MDA	.16	228	MDA	.10	256	MDA	.15
201	MDA	.14	229	MDA	.16	257	MDA	.15

* 205 from 301 was counted with

Surveyed by: [illegible]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80
Area I

Sheet 4 of 4

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date 8/ Source Check 166 c.p.m
Background 67 Corr.Factor 15.08
Probe HP210

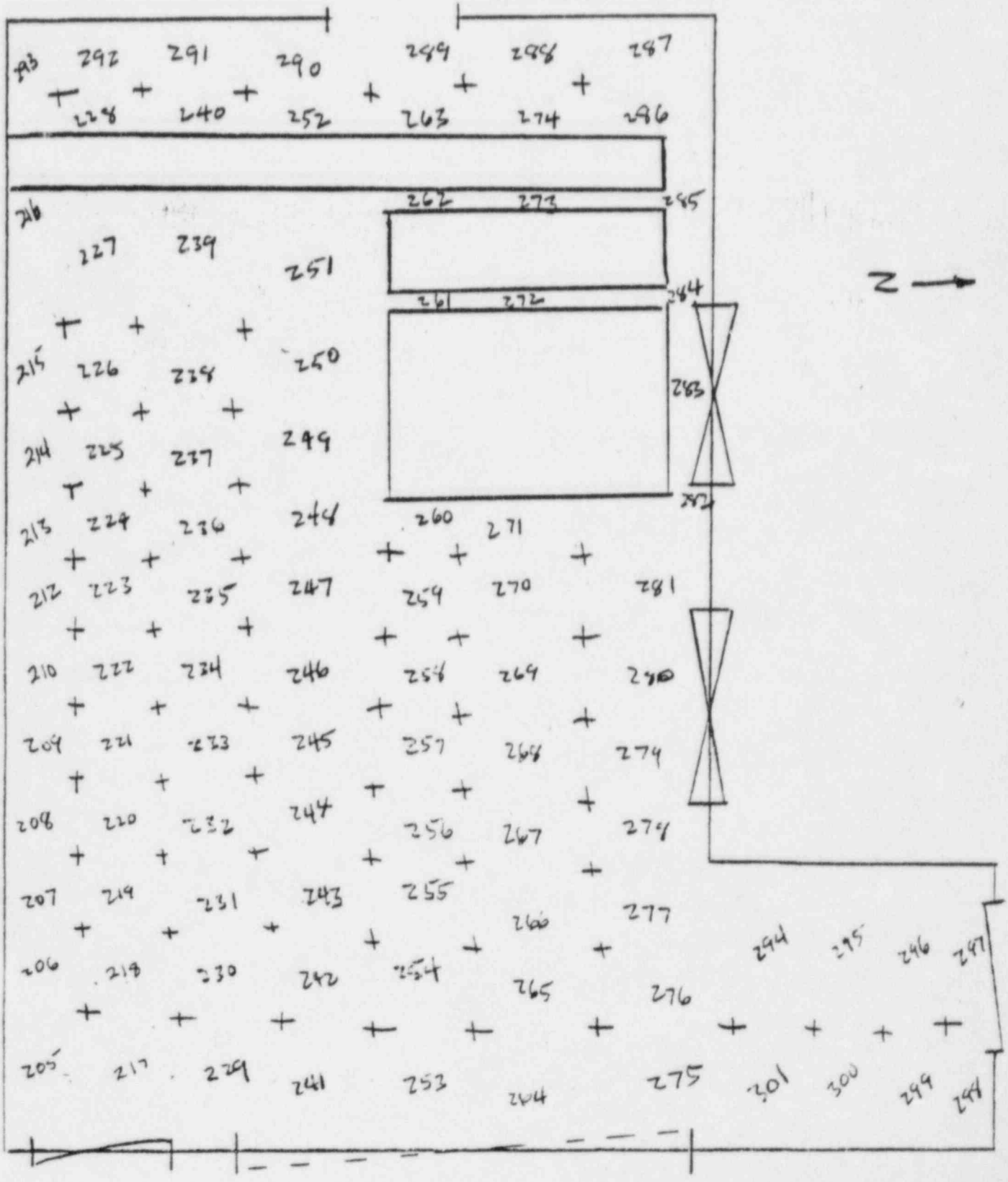
Fixed Activity

Meter E120 Ser.# 5892
Cal. Date 8/ Source Ck. 8/
Background .10 Probe HP210

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
258	MDA	.14	286	MDA	.12	311	MDA	.10
259	MDA	.12	287	MDA	.14	312	MDA	.10
260	MDA	.16	288	MDA	.12	313	MDA	.10
261	MDA	.10	289	MDA	.10	314	MDA	.10
262	MDA	.12	290	MDA	.12	315	MDA	.14
263	MDA	.10	291	MDA	.10	316	MDA	.12
264	MDA	.14	292	MDA	.10	317	MDA	.10
265	MDA	.14	293	MDA	.10	318	MDA	.12
266	MDA	.14	294	377	.14	319	MDA	.10
267	MDA	.12	295	MDA	.12	320	MDA	.08
268	302	.10	296	MDA	.10	321	MDA	.09
269	MDA	.08	297	MDA	.12	322	MDA	.08
270	MDA	.19	298	MDA	.16	323	MDA	.10
271	MDA	.16	299	558	.14	324	MDA	.20
272	MDA	.16	300	437	.16	325	MDA	.14
273	MDA	.08	301	513	.18	326	MDA	.14
274	MDA	.18	PASS THRU HOLES			327	483	.12
275	MDA	.17	GOING INTO CELLS			328	MDA	.12
276	MDA	.16	FROM AREA J. (*)			329	MDA	.14
277	MDA	.12	302	MDA	.12	330	695	.18
278	MDA	.12	303	MDA	.10	** 330	MDA	.15
279	MDA	.14	304	MDA	.10			
280	MDA	.17	305	MDA	.18			
281	MDA	.18	306	MDA	.10			
282	MDA	.17	307	MDA	.10			
283	MDA	.14	308	MDA	.12			
284	MDA	.10	309	MDA	.12			
285	MDA	.12	310	MDA	.12			

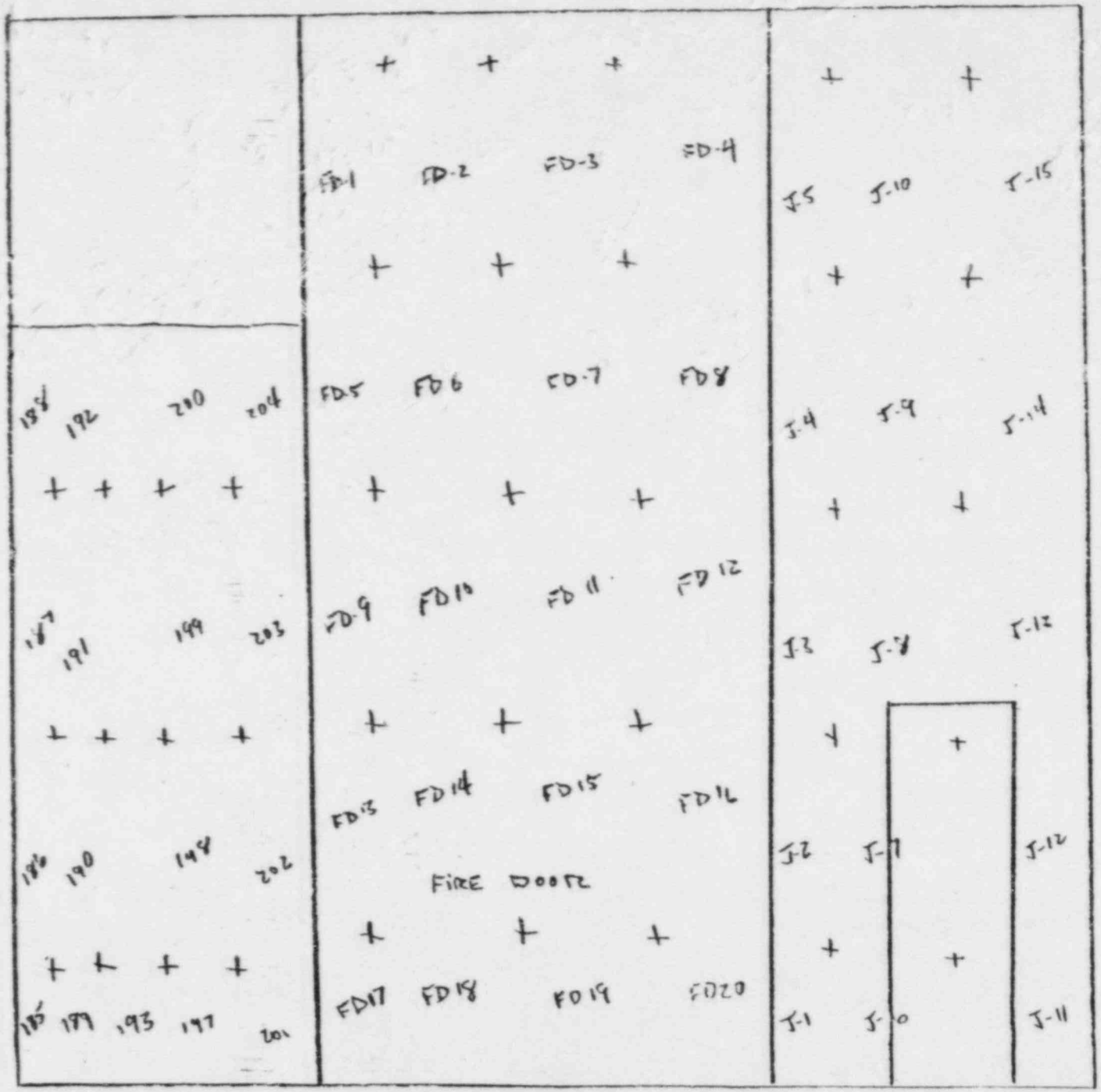
** RESWIPED AFTER DECON
(*) - NOT THRU UNLESS RETRI...

Surveyed by: [signature]

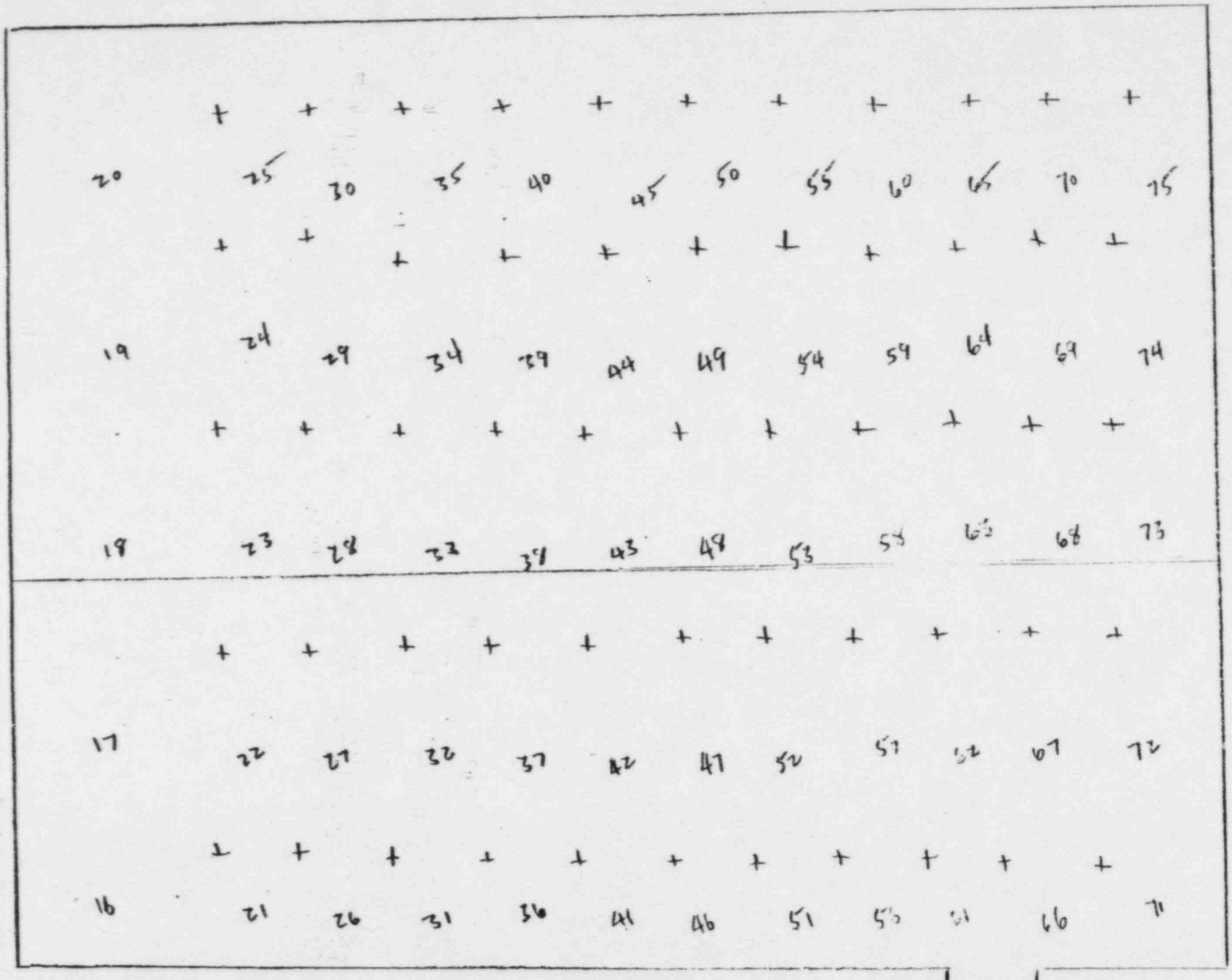

N
FLOOR PLAN OF AREA 4

NORTH WALL AREA J

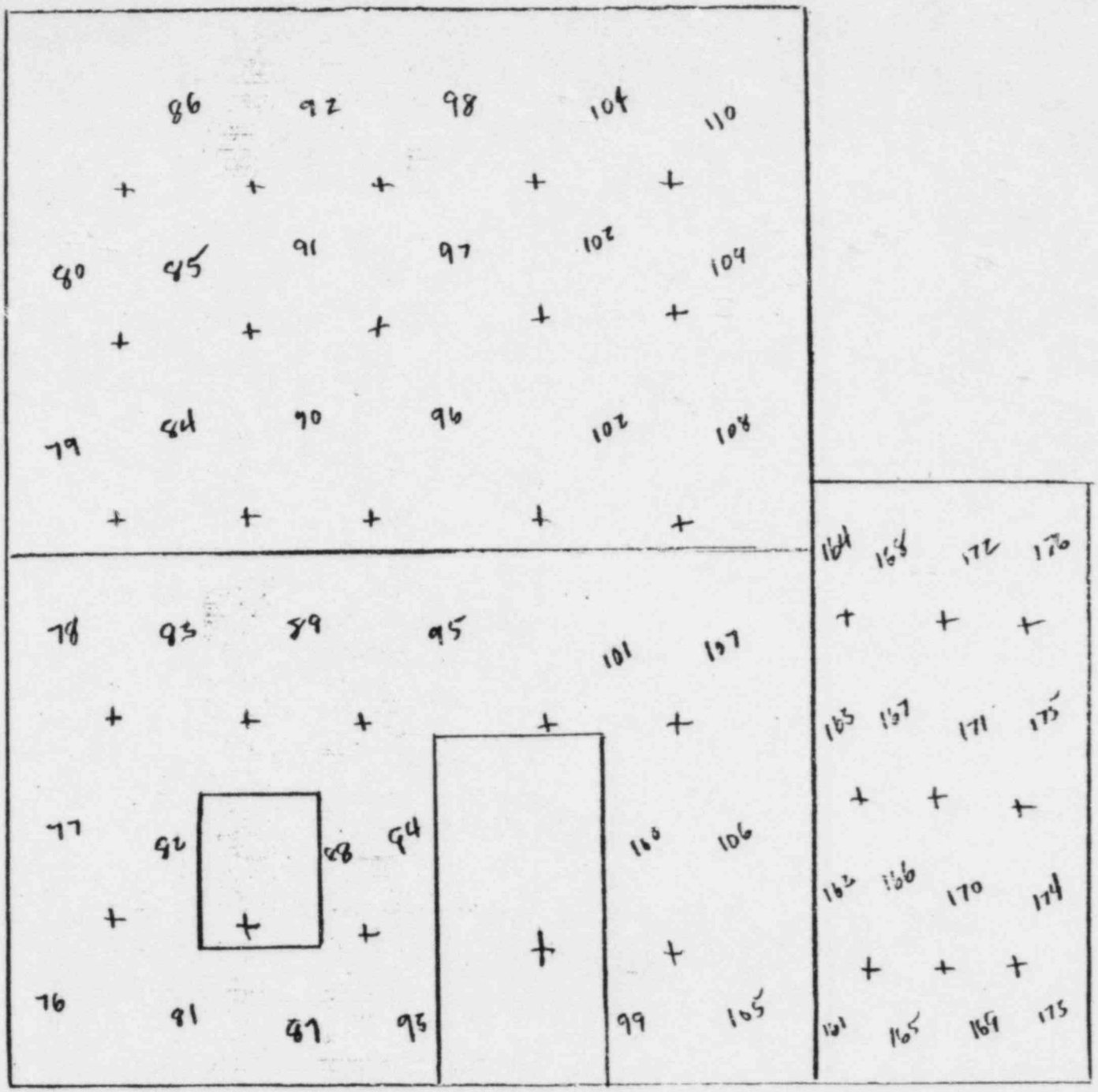
EAST WALL AREA J



SOUTH WALL OF AREA T



WESTWALL OF AREA J



Work History of Ceiling in Area J

1. Informational Survey.
2. Complete wipe down.
3. Clean crane and rails.
4. Remove cable and hook from crane.
5. Perform close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-21-80 Sheet 1 of 5
Area J CEILING

Loose Surface Activity

Meter MS-2 Ser.# 661
Cal. Date ok Source Check 191 cpm
Background 275 Corr.Factor 12.77
Probe SPA-3

Fixed Activity

Meter E-120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .10 Probe HP210

MDA = 498

Grid Location AREA 1	Loose Activ. DPM/100cm²	Fixed Activ. MR/HR
1	MDA	.12
2	MDA	.14
3	MDA	.10
4	MDA	.14
5	MDA	.12
6	MDA	.14
7	MDA	.10
8	MDA	.10
9	MDA	.10
10	MDA	.12
11	MDA	.14
12	MDA	.16
13	MDA	.16
14	MDA	.14
15	MDA	.12
16	MDA	.12
17	MDA	.10
18	MDA	.14
19	MDA	.16
20	MDA	.18
21	MDA	.18
22	MDA	.16
23	MDA	.16
24	MDA	.16
25	MDA	.14
26	MDA	.14
27	MDA	.12
28	MDA	.16
29	MDA	.16
30	MDA	.14
31	MDA	.12
32	MDA	.14
33	MDA	.16
34	MDA	.12
35	MDA	.12
36	MDA	.12
37	MDA	.10
38	MDA	.16
39	MDA	.18
AREA #2		
1	MDA	.16
2	MDA	.14
3	MDA	.14
4	MDA	.12
5	MDA	.10
6	MDA	.10
7	MDA	.12
8	MDA	.16
9	MDA	.14
10	MDA	.14
11	MDA	.12
12	MDA	.14
13	MDA	.14
14	MDA	.10
15	MDA	.16
16	MDA	.16
17	MDA	.18
18	MDA	.16
19	MDA	.18
20	MDA	.14
21	MDA	.14
22	MDA	.14
23	MDA	.14
24	MDA	.14
25	MDA	.12
26	MDA	.12
27	MDA	.12
28	MDA	.10
29	MDA	.12
30	MDA	.10
31	MDA	.14
32	MDA	.12
33	MDA	.16
34	MDA	.16
35	MDA	.18
36	MDA	.16
37	MDA	.14
38	536	.14
39	MDA	.16
40	MDA	.12
41	MDA	.14
42	MDA	.14
43	MDA	.14
44	MDA	.16

Surveyed by:

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-21-80 Sheet 2 of 5
Area I CEILING

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ok Source Check 191 cpm
Background 275 Corr.Factor 12.77 dpm/cpm
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background 110 Probe HP210

MDA = 498 DPM

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
AREA 2 cont			22	MDA	.10	4	MDA	.14
45	MDA	.10	23	MDA	.12	5	MDA	.20
46	MDA	.14	24	MDA	.14	6	MDA	.16
47	MDA	.12	25	MDA	.12	7	MDA	.16
48	MDA	.14	AREA 4			8	MDA	.14
49	MDA	.14	1	MDA	.12	9	MDA	.14
AREA 3			2	MDA	.12	10	MDA	.12
1	MDA	.12	3	MDA	.10	11	MDA	.10
2	MDA	.12	4	MDA	.14	12	MDA	.12
3	MDA	.10	5	MDA	.12	13	MDA	.12
4	MDA	.12	6	MDA	.14	14	MDA	.14
5	MDA	.12	7	MDA	.14	15	MDA	.14
6	MDA	.12	8	MDA	.14	16	MDA	.16
7	571	.14	9	MDA	.14	17	MDA	.16
8	MDA	.10	10	MDA	.14	18	MDA	.14
9	MDA	.14	11	MDA	.12	19	MDA	.12
10	MDA	.14	12	MDA	.14	20	MDA	.12
11	MDA	.16	13	MDA	.15	21	MDA	.12
12	MDA	.10	14	MDA	.16	22	MDA	.16
13	910	.12	15	MDA	.16	23	MDA	.12
14	MDA	.12	16	MDA	.14	24	MDA	.16
15	MDA	.14	17	MDA	.12	25	MDA	.14
16	463	.14	18	MDA	.14	26	MDA	.16
17	MDA	.12	19	MDA	.12	27	MDA	14
18	MDA	.12	AREA 5			28	MDA	.12
19	MDA	.16	1	MDA	.12	29	MDA	.12
20	MDA	.14	2	MDA	.12	30	MDA	.12
21	MDA	.12	3	MDA	.12	31	MDA	.12

Surveyed by:

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-21-80 Sheet 3 of 5
Area J CELL bldg

Loose Surface Activity

Meter Ins-2 Ser.# C81
Cal. Date ok Source Check 191 cpm
Background 275 cpm Corr. Factor 12,77 dpm/cpm
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background 10 Probe HP210

MDA = 498 dpm

Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. mR/Hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
AREA 5	cont		59	MDA	.16	4	MDA	.18
32	MDA	.14	AREA	6		5	MDA	.18
33	MDA	.16	1	MDA	.12	6	MDA	.12
34	MDA	.12	2	MDA	.12	7	MDA	.12
35	MDA	.12	3	MDA	.16	8	MDA	.12
36	MDA	.12	4	MDA	.16	9	MDA	.16
37	MDA	.16	5	MDA	.16	10	MDA	.14
38	MDA	.12	6	MDA	.12	11	MDA	.16
39	MDA	.12	7	MDA	.16	AREA	8	
40	MDA	.14	8	MDA	.16	1	MDA	.12
41	MDA	.12	9	MDA	.12	2	MDA	.16
42	MDA	.12	10	MDA	.16	3	MDA	.13
43	MDA	.14	11	MDA	.12	4	MDA	.16
44	MDA	.14	12	MDA	.12	5	MDA	.14
45	MDA	.12	13	MDA	.14	6	MDA	.14
46	MDA	.12	14	MDA	.12	7	MDA	.14
47	MDA	.16	15	MDA	.12	8	MDA	.14
48	MDA	.14	16	MDA	.12	9	MDA	.12
49	MDA	16	17	MDA	.14	10	MDA	.12
50	MDA	.18	18	MDA	.12			
51	MDA	.12	19	MDA	.12			
52	MDA	.12	20	MDA	.12			
53	MDA	.16	21	MDA	.12			
54	MDA	.16	22	MDA	.16			
55	MDA	.18	AREA	7				
56	MDA	.15	1	MDA	.12			
57	MDA	.16	2	MDA	.12			
58	MDA	.14	3	MDA	.18			

Surveyed by: [signature]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-21-80 Sheet 4 of 5

Area J CEILING (CRANE & RAIL)

Loose Surface Activity

Meter ~~E120~~ MS-2 Ser.# 581
Cal. Date 4/1 Source Check 191 cpm
Background 1.75 cpm Corr.Factor 12.77 DPM/CPM
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date 4/1 Source Ck. 4/1
Background .10 Probe HP210

MDA = 446 DPM

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
RAIL SYSTEM FOR CRANE			27	MDA		23	MDA	
NORTH RAIL			28	MDA		24	MDA	
1	MDA		29	MDA		25	MDA	
2	MDA		30	MDA		26	MDA	
3	MDA		31	MDA		27	MDA	
4	MDA		SOUTH RAIL			28	MDA	
5	MDA		1	MDA		29	MDA	
6	MDA		2	MDA		30	MDA	
7	MDA		3	MDA		31	MDA	
8	MDA		4	MDA		TOP OF CRANE		
9	MDA		5	MDA		1	MDA	
10	MDA		6	MDA		2	MDA	
11	MDA		7	MDA		3	MDA	
12	MDA		8	MDA		4	MDA	
13	MDA		9	MDA		5	MDA	
14	MDA		10	MDA		6	MDA	
15	MDA		11	MDA		7	MDA	
16	MDA		12	MDA		8	MDA	
17	MDA		13	MDA		9	MDA	
18	MDA		14	MDA		10	MDA	
19	MDA		15	MDA		11	MDA	
20	MDA		16	MDA		12	MDA	
21	MDA		17	MDA		13	MDA	
22	MDA		18	MDA		14	MDA	
23	MDA		19	MDA		15	MDA	
24	MDA		20	MDA		16	MDA	
25	MDA		21	MDA		17	MDA	
26	MDA		22	MDA		18	MDA	

Surveyed by:

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-21-80 Sheet 5 of 5
Area I CEILING (CRANE & RAIL)

Loose Surface Activity

Meter MS-2 Ser.# 651
Cal. Date 01 Source Check 191 cpm
Background 275 cpm Corr.Factor 12.77 dpm/cpm
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date 01 Source Ck. 01
Background 110 Probe HP210

MDA = 498 DPM

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
19	MDA		18	MDA				
20	MDA		19	MDA				
21	MDA		20	MDA				
22	MDA		21	MDA				
23	MDA		22	MDA				
24	MDA		23	MDA				
25	MDA		24	MDA				
26	MDA		25	MDA				
27	MDA		26	MDA				
BOTTOM OF CRANE			27	MDA				
AND SIDES			28	MDA				
1	MDA		29	MDA				
2	MDA		30	MDA				
3	MDA		31	MDA				
4	MDA		32	MDA				
5	MDA		33	MDA				
6	MDA		34	MDA				
7	MDA		35	MDA				
8	MDA							
9	MDA							
10	MDA							
11	MDA							
12	MDA							
13	MDA							
14	MDA							
15	MDA							
16	MDA							
17	MDA							

Surveyed by:

CEILING OF AREA 1

CENTER MARK

AREA 1

AREA 2

AREA 3

AREA 4

AREA 5

AREA 6

AREA 7

AREA 8

N

WORKED PERFORMED IN AREA K (HOT CELL #2)

1. Informational Survey
2. Complete Wipe Down
3. Remove Unnecessary Piping and Conduit
4. Remove Top of Chute
5. Electro Conned Chute to Main Pool
6. Remove Pass Thru Port Doors
7. Remove Paint from Interior
8. Scale Concrete Off Floor
9. Wipe Down Cell
10. Perform Close Out Survey

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-12-80 Sheet 1 of 2
Area K

Loose Surface Activity

Meter PS-2 Ser.# 164
Cal. Date 0/ Source Check 154 cpm
Background 71 Corr.Factor 16.26 ~~dpm~~ cpm
Probe HP210

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date 0/ Source Ck. 0/
Background .10 Probe HP210

MDA = 352 dpm

Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. mR/hr
K-1	MDA	.15
K-2	MDA	.14
K-3	MDA	.14
K-4	MDA	.15
K-5	MDA	.14
K-6	MDA	.14
K-7	MDA	.16
K-8	MDA	.15
K-9	MDA	.15
K-10	352	.16
K-11	MDA	.14
K-12	MDA	.14
K-13	MDA	.08
K-14	MDA	.08
K-15	MDA	.08
K-16	MDA	.08
K-17	352	.14
K-18	MDA	.14
K-19	MDA	.14
K-20	MDA	.12
K-21	MDA	.14
K-22	MDA	.14
K-23	MDA	.12
K-24	MDA	.16
K-25	MDA	.12
K-26	MDA	.08
K-27	MDA	.10
K-28	MDA	.10
K-29	MDA	.20
K-30	MDA	.10
K-31	MDA	.12
K-32	MDA	.12
K-33	MDA	.18
K-34	MDA	.16
K-35	MDA	.08
K-36	MDA	.18
K-37	MDA	.12
K-38	MDA	.10
K-39	MDA	.16
K-40	MDA	.12
K-41	MDA	.10
K-42	MDA	.10
K-43	MDA	.16
K-44	MDA	.12
K-45	MDA	.14
K-46	MDA	.14
K-47	MDA	.13
K-48	MDA	.12
K-49	MDA	.14
K-50	MDA	.14
K-51	MDA	.12
K-52	MDA	.13
K-53	MDA	.14
K-54	MDA	.16
K-55	MDA	.14
K-56	MDA	.14
K-57	MDA	.08
K-58	MDA	.06
K-59	MDA	.10
K-60	MDA	.10
K-61	MDA	.08
K-62	MDA	.08
K-63	MDA	.10
K-64	MDA	.10
K-65	MDA	.08
K-66	MDA	.11
K-67	MDA	.12
K-68	MDA	.14
K-69	MDA	.17
K-70	MDA	.10
PASS THRU PORTS OF RACK K (COLD)		(*)
K-71	MDA	.18
K-72	352	.08
K-73	MDA	.10
K-74	MDA	.12
K-75	MDA	.10
K-76	MDA	.08
K-77	MDA	.14
K-78	MDA	.08
K-79	MDA	.08
K-80	MDA	.10
K-81	MDA	.06
K-82	MDA	.06

(*) READING FOR PASS THRU PORTS WERE OBTAINED USING E-120 w/ 5177 PROBE

Surveyed by:

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-12-80 Sheet 2 of 2
Area K

Loose Surface Activity

Meter PS-2 Ser.# 164
Cal. Date ok Source Check 154 cpm
Background 71 cpm Corr.Factor 16.26 dpm/cpm
Probe HP210

Fixed Activity

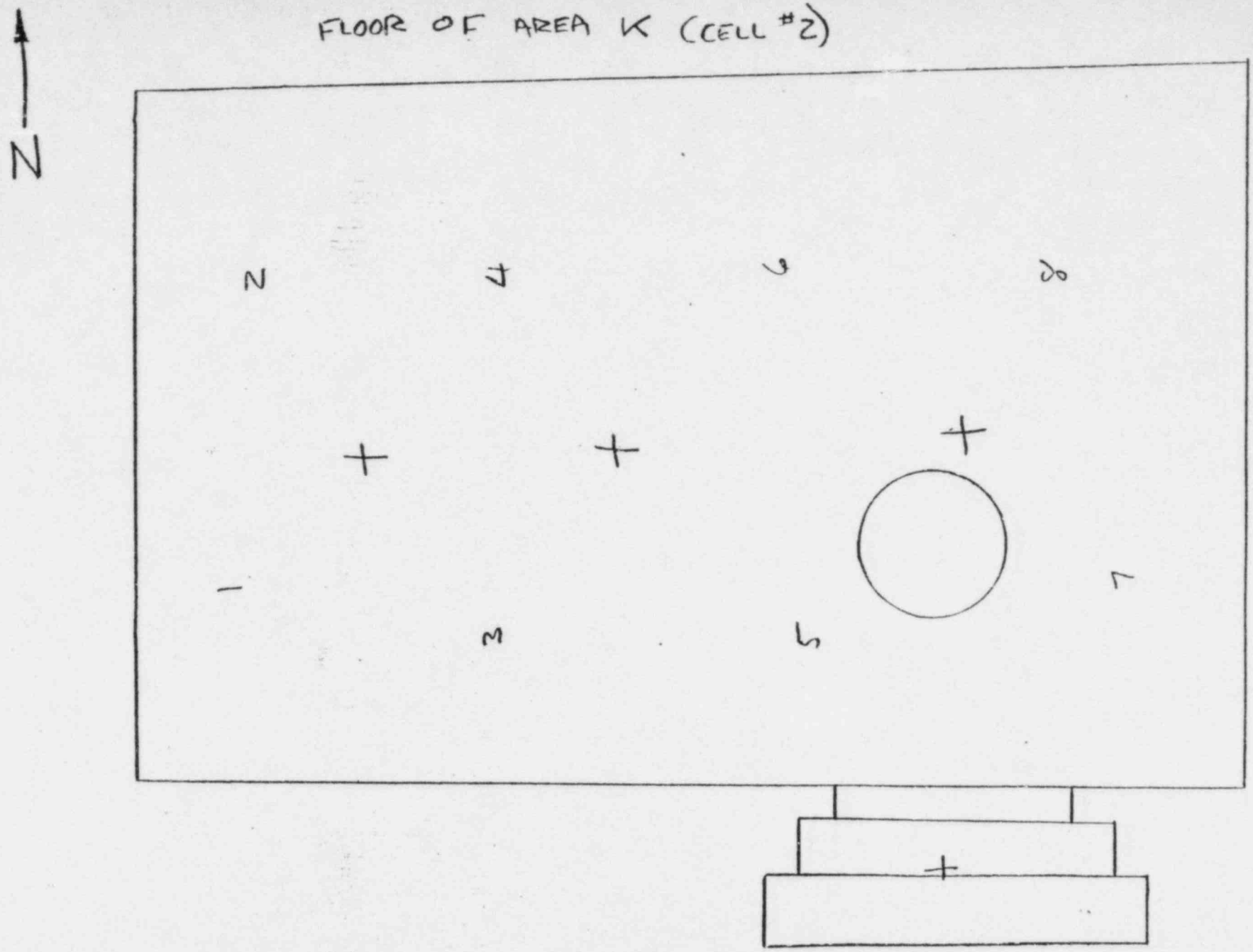
Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .10 Probe E177

MDA = 352 dpm

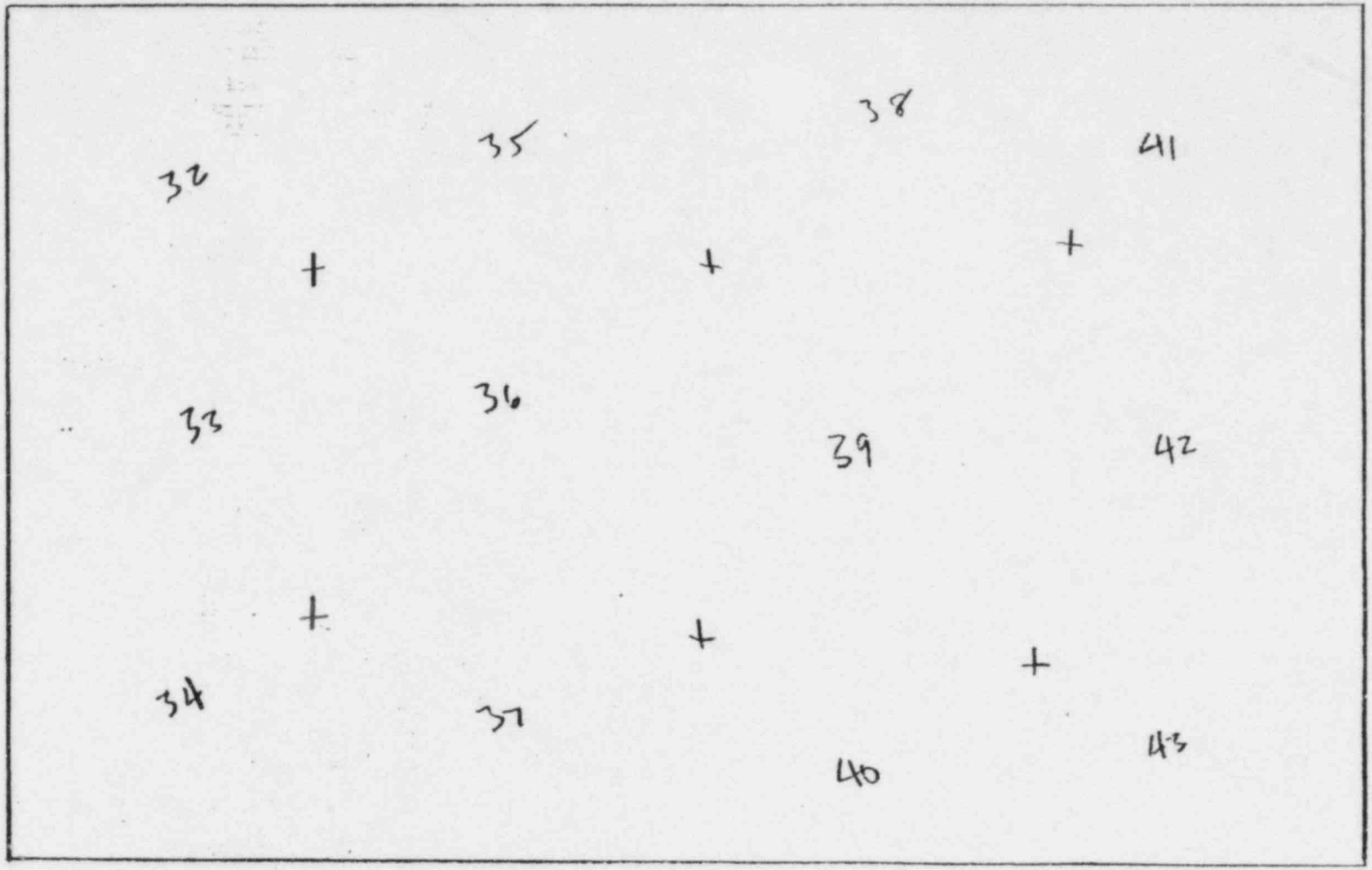
Grid Location	Loose Activ. DPM/SQ.CM	Fixed Activ. MR/HR	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
K-83	MDA	.06	K 109	MDA	.12			
K-84	MDA	.12	K110	MDA	.20			
K-85	488	.10						
K-86	MDA	.18						
K-87	MDA	.08						
K-88	MDA	.08						
K-89	MDA	.10						
K-90	MDA	.08						
K 91	MDA	.16						
K 92	MDA	.08						
K 93	MDA	.08						
K 94	MDA	.08						
K 95	MDA	.10						
K 96	494	.09						
K 97	MDA	.14						
K 98	MDA	.18						
K 99	MDA	.14						
K 100	MDA	.12						
K 101	MDA	.10						
AROUND CELL 2 DOOR								
K 102	MDA	.10						
K 103	MDA	.10						
K 104	MDA	.10						
K 105	MDA	.10						
K 106	MDA	.08						
K 107	MDA	.08						
K 108	MDA	.12						

Surveyed by:

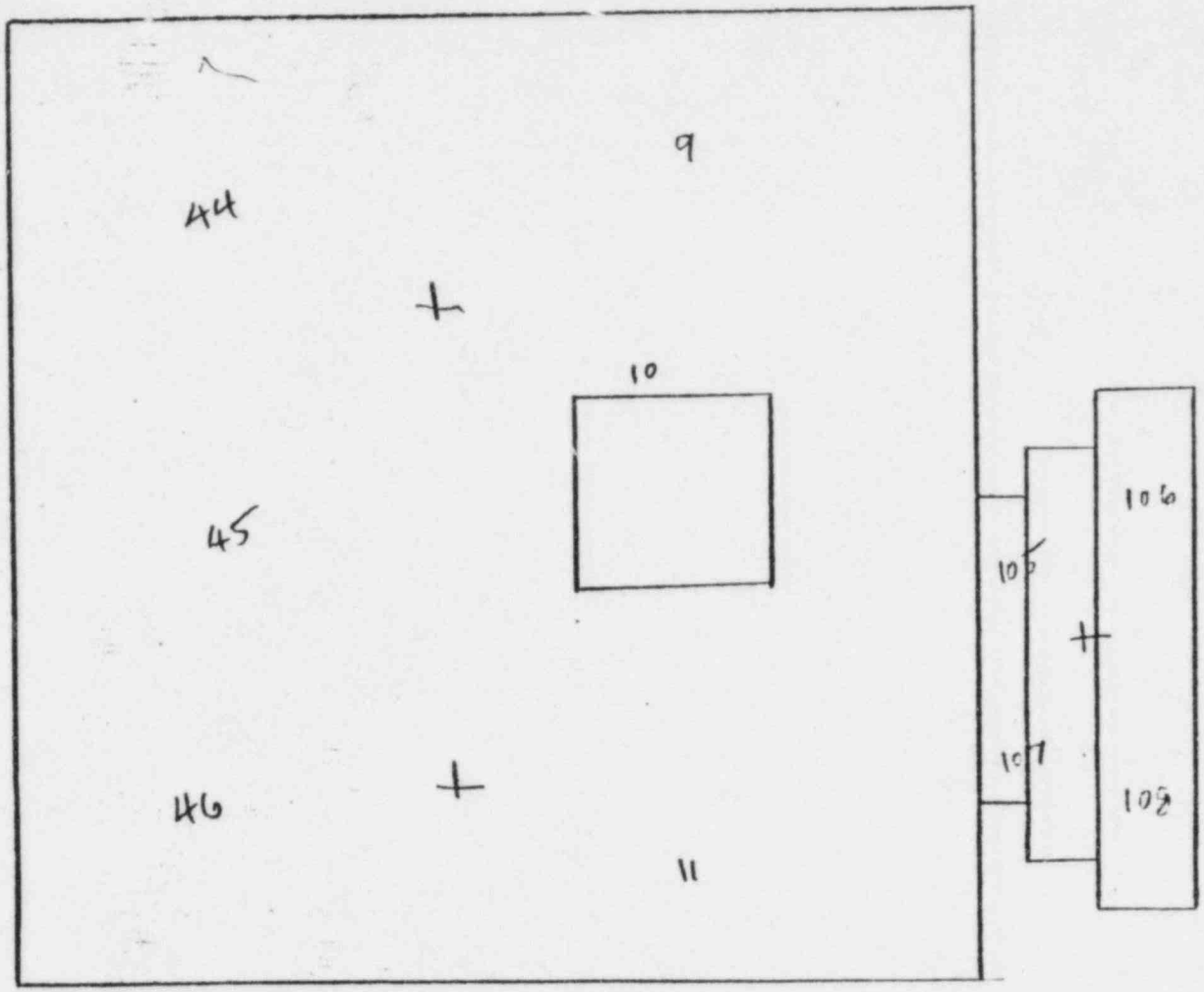
FLOOR OF AREA K (CELL #2)



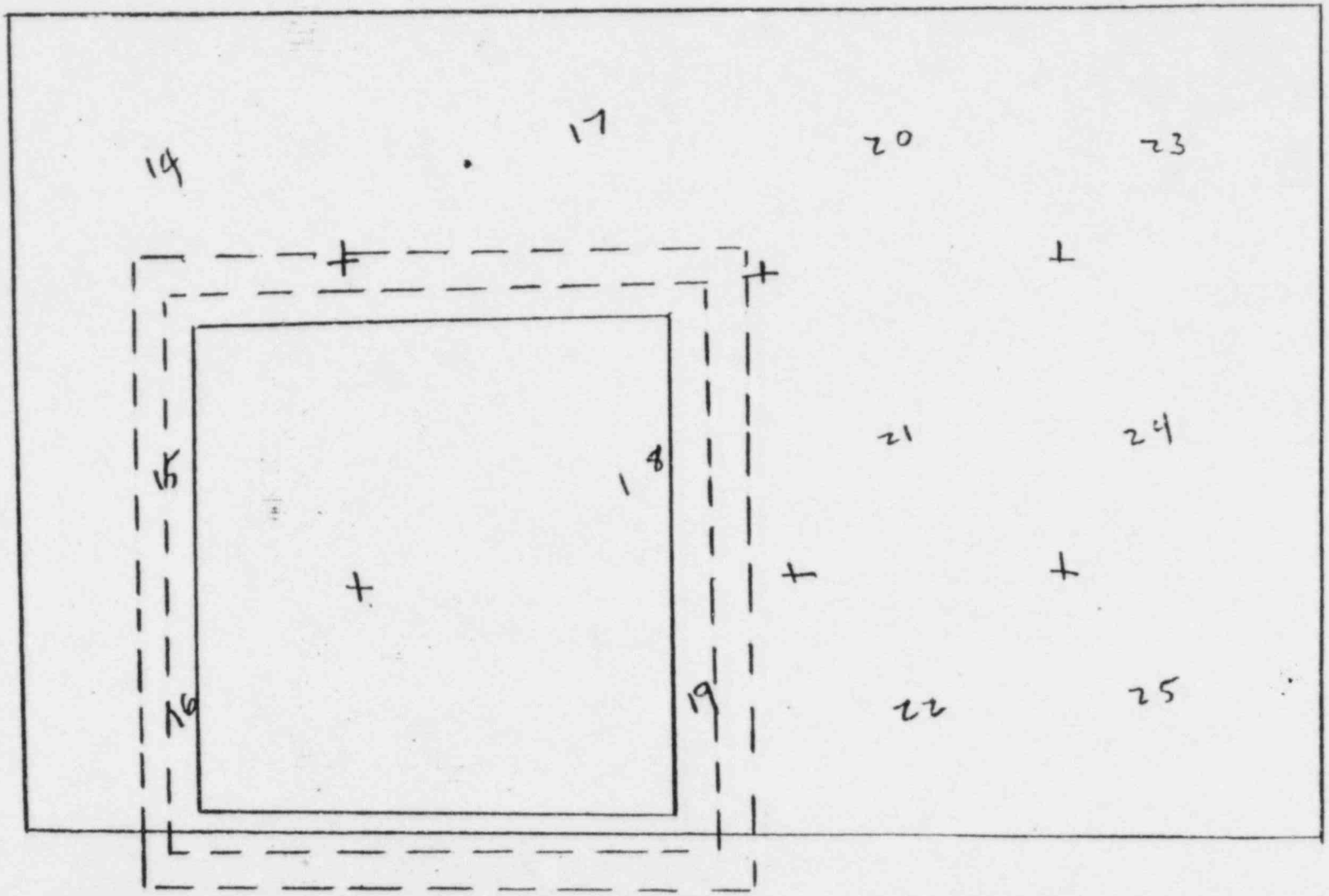
NORTH WALL AREA K



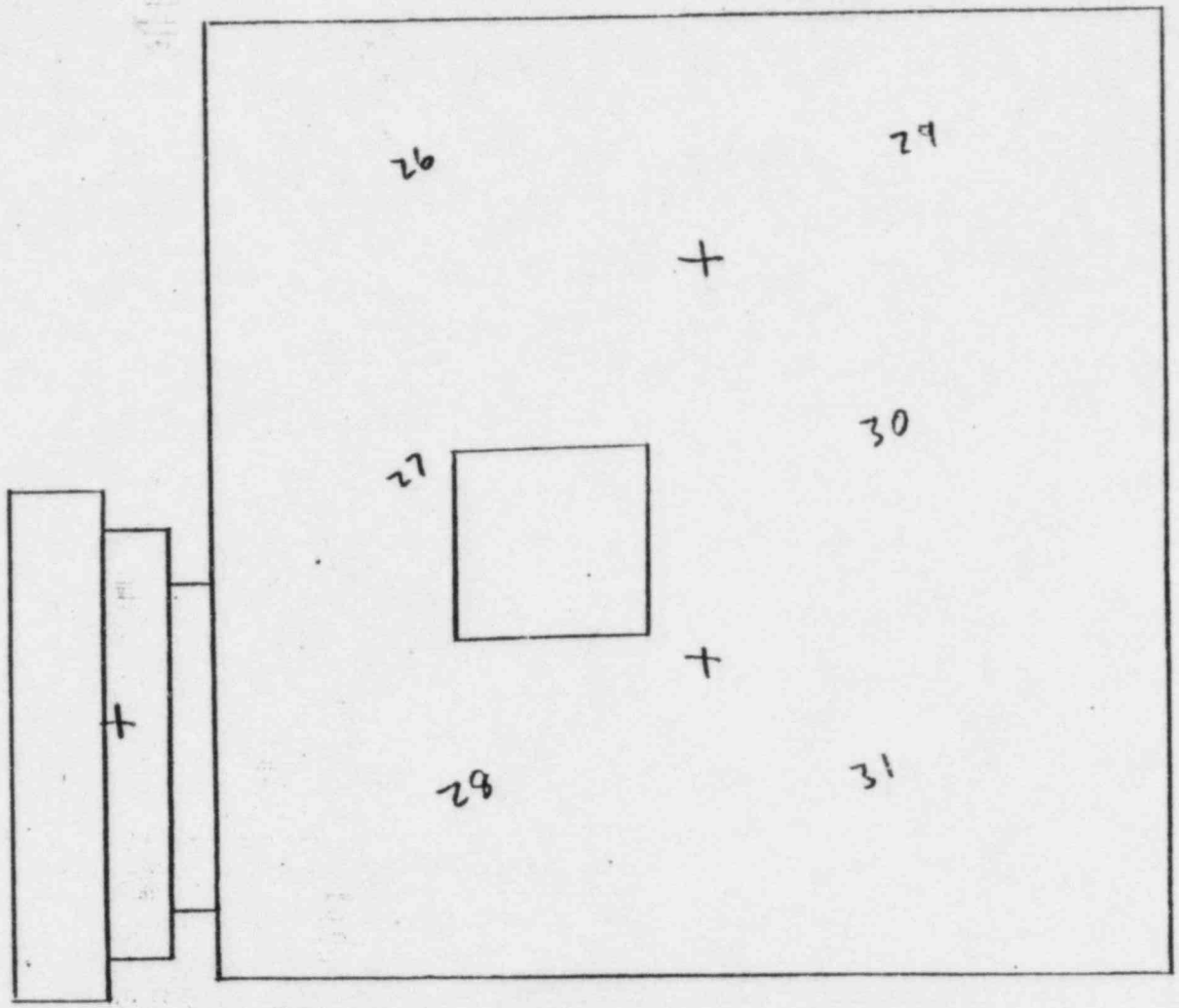
EAST WALL AREA K



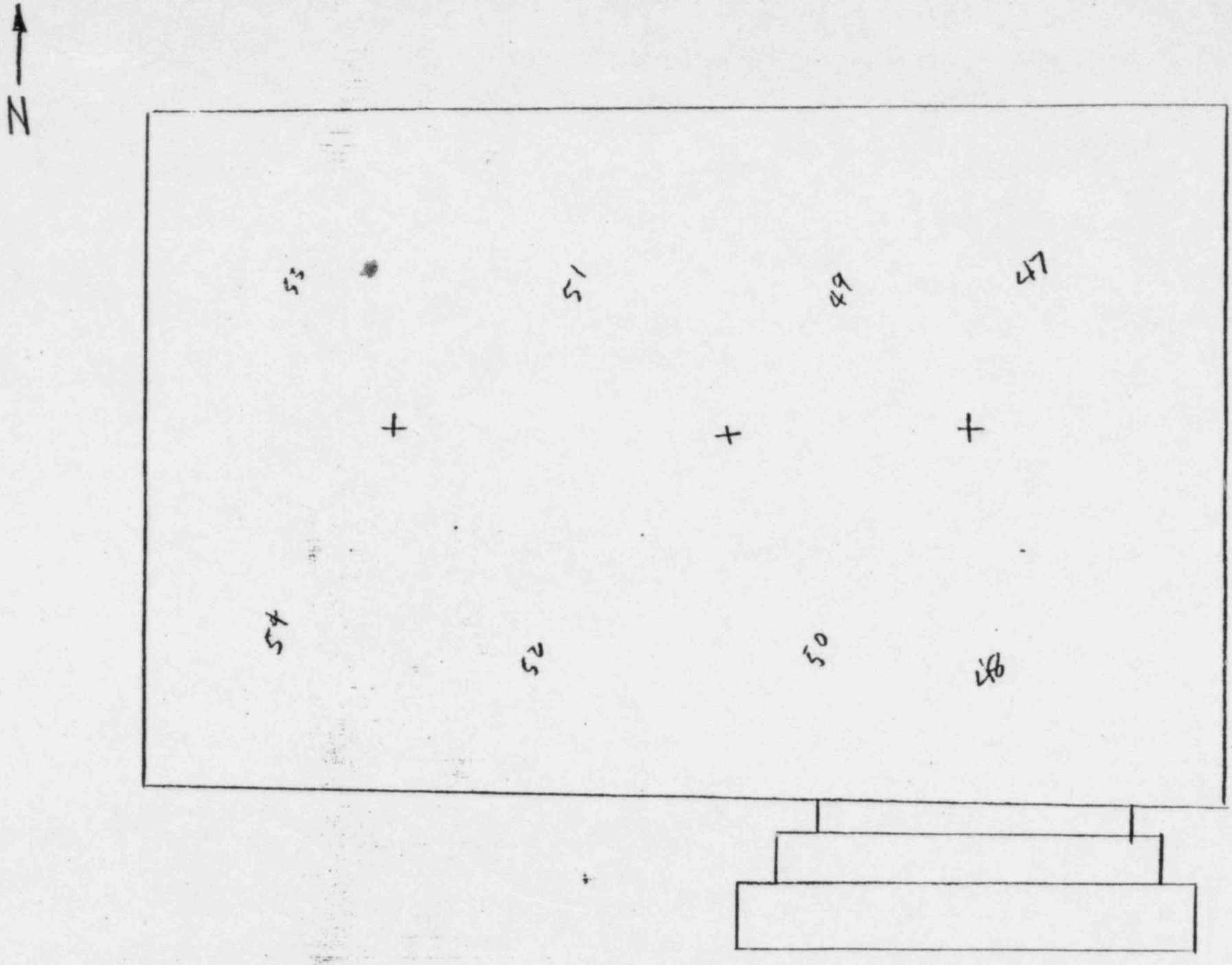
SOUTH WALL AREA K



WEST WALL AREA K



CIELING OF AREA K



WORKED PERFORMED IN AREA L (HOT CELL #1)

1. Informational Survey
2. Complete Wipe Down Interior
3. Scale Concrete Off Floor
4. Remove Entrance
5. Attempt to Decon 4 Source Wells
6. Remove Top of Source Wells
7. Remove All Unnecessary Piping and Conduit
8. Remove Paint from Exterior
9. Remove Pass Thru Port Doors
10. Decon Pass Thru Ports
11. Perform Close-out Survey
12. Filled Source Wells with Concrete

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-17-80 Sheet 1 of 2
Area L

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ok Source Check 188 cpm
Background 208 Corr.Factor 13.32
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .04 Probe HP210

MDA = 507 DPM

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
1	MDA	.18	29	MDA	.12	57	MDA	.06
2	MDA	.12	30	MDA	.12	58	MDA	.08
3	MDA	.12	31	MDA	.18	59	MDA	.10
4	MDA	.08	32	MDA	.10	60	MDA	.08
5	MDA	.16	33	MDA	.12	Pass thrugh ports (*)		
6	MDA	.16	34	MDA	.16	Area (L)	Cell	1
7	MDA	.12	35	MDA	.16	61	MDA	.08
8	MDA	.08	36	MDA	.12	62	MDA	.12
9	MDA	.12	37	MDA	.14	63	536	.14
10	MDA	.16	38	MDA	.12	64	MDA	.14
11	MDA	.05	39	MDA	.09	65	MDA	.08
12	MDA	.10	40	MDA	.10	66	MDA	.10
13	MDA	.12	41	MDA	.10	67	MDA	.18
14	MDA	.12	42	MDA	.10	68	MDA	.16
15	MDA	.17	43	MDA	.10	69	MDA	.10
16	MDA	.16	44	MDA	.08	70	MDA	.16
17	MDA	.16	45	MDA	.09	71	MDA	.08
18	MDA	.12	46	MDA	.10	72	MDA	.09
19	MDA	.17	47	MDA	.09	73	MDA	.10
20	MDA	.10	48	MDA	08	74	MDA	.12
21	MDA	.16	49	MDA	.08	75	MDA	.10
22	MDA	.14	50	MDA	.08	76	MDA	.12
23	MDA	.16	51	MDA	.08	77	MDA	.10
24	MDA	.10	52	MDA	05	78	MDA	.08
25	MDA	.14	53	MDA	.10	79	MDA	.08
26	MDA	.16	54	MDA	.09	80	533	.08
27	MDA	.14	55	MDA	.06	81	MDA	.08
28	MDA	.08	56	MDA	.10	82	MDA	.08

(*) READINGS OF PASS THRU PORTS TAKEN WITH E120 - 5540 W/HP210

Surveyed by: [illegible]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-12-80 Sheet 2 of 2
Area L

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ~~3-12-80~~ Source Check 1885 CPM
Background 268 Corr.Factor 13.32
Probe SPA-3

Fixed Activity

Meter E-120 Ser.# 5340
Cal. Date 2 Source Ck. ok
Background .08 Probe HP210

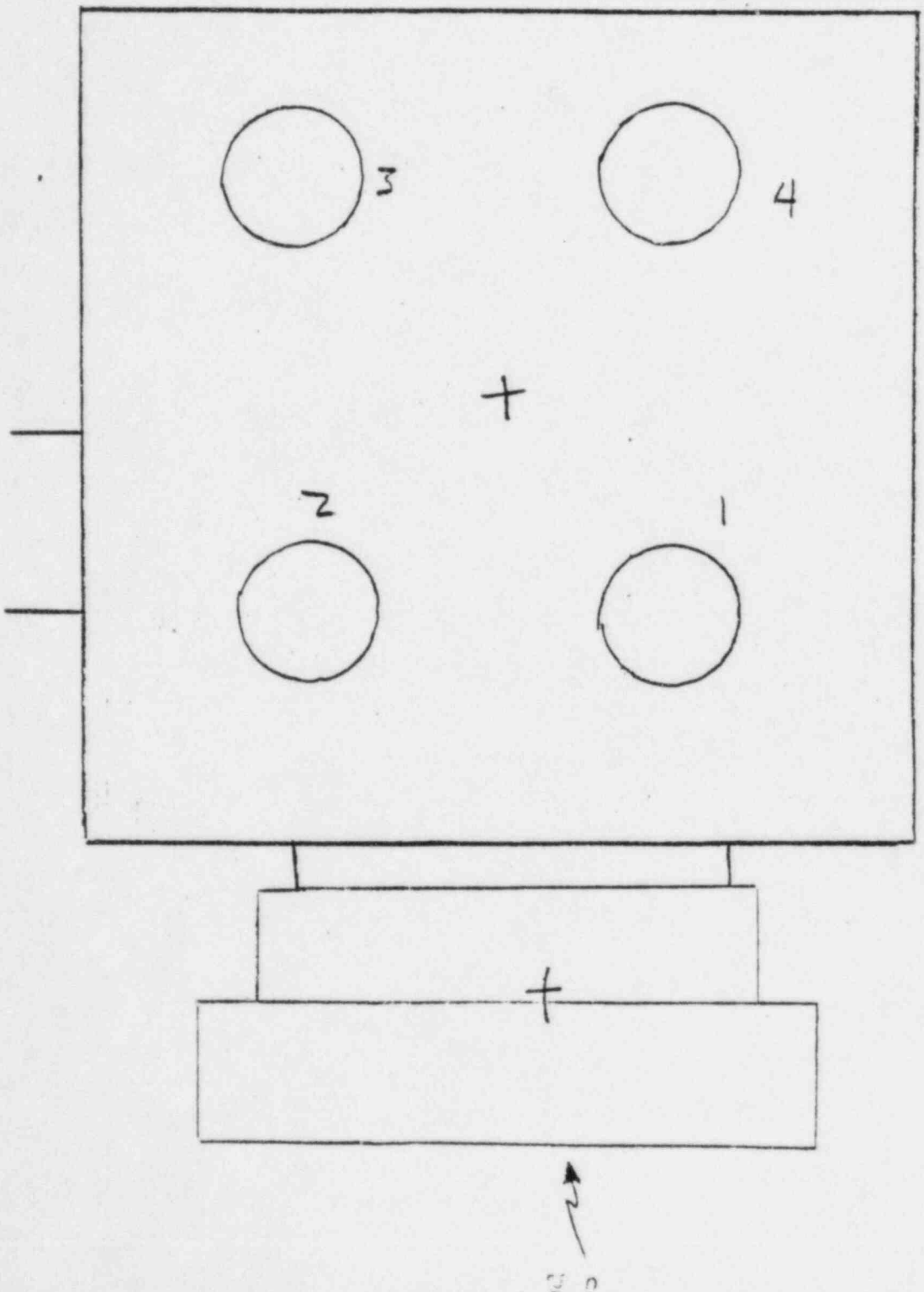
MDA = 507 dpm

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
83	MDA	.15						
84	MDA	.12						
85	MDA	.08						
86 Door	MDA	.15						
87	MDA	.10						
88	MDA	.10						
89	MDA	.18						
90	MDA	.20						

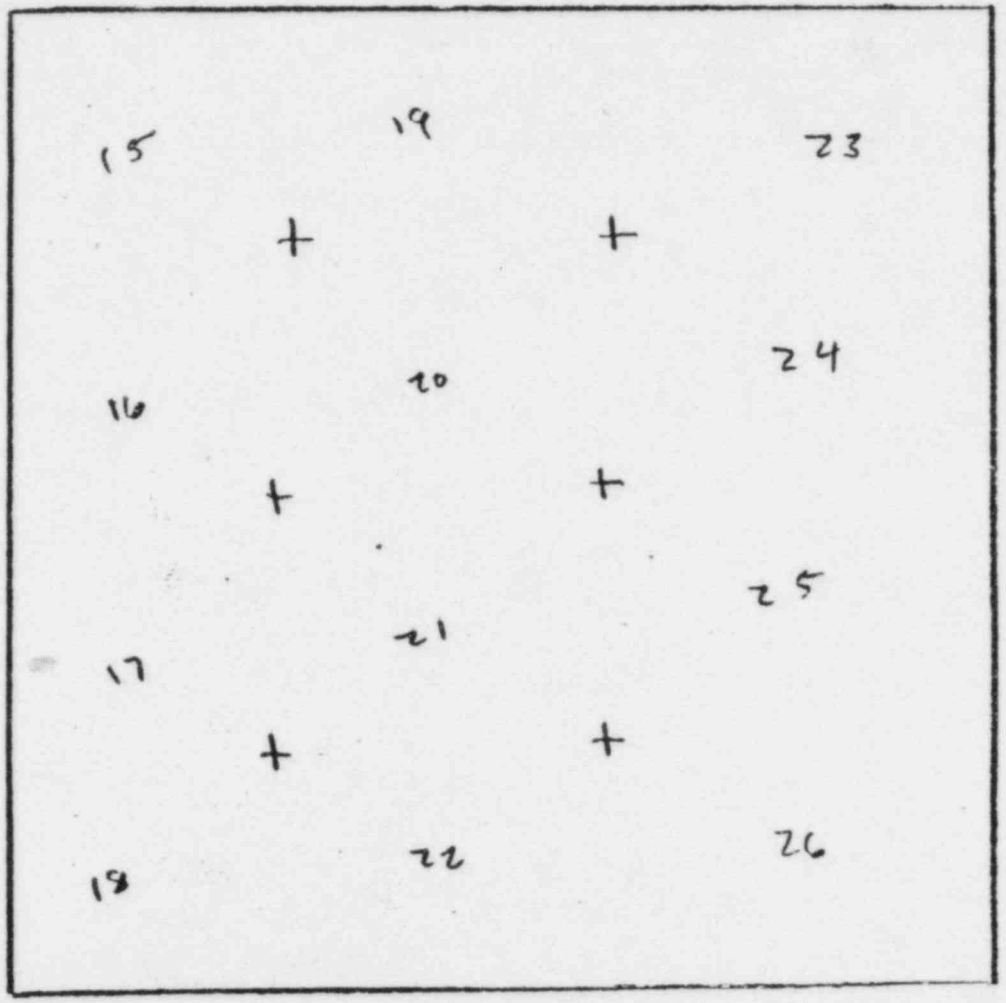
Surveyed by: [illegible]

FLOOR OF AREA L (CELL #1)

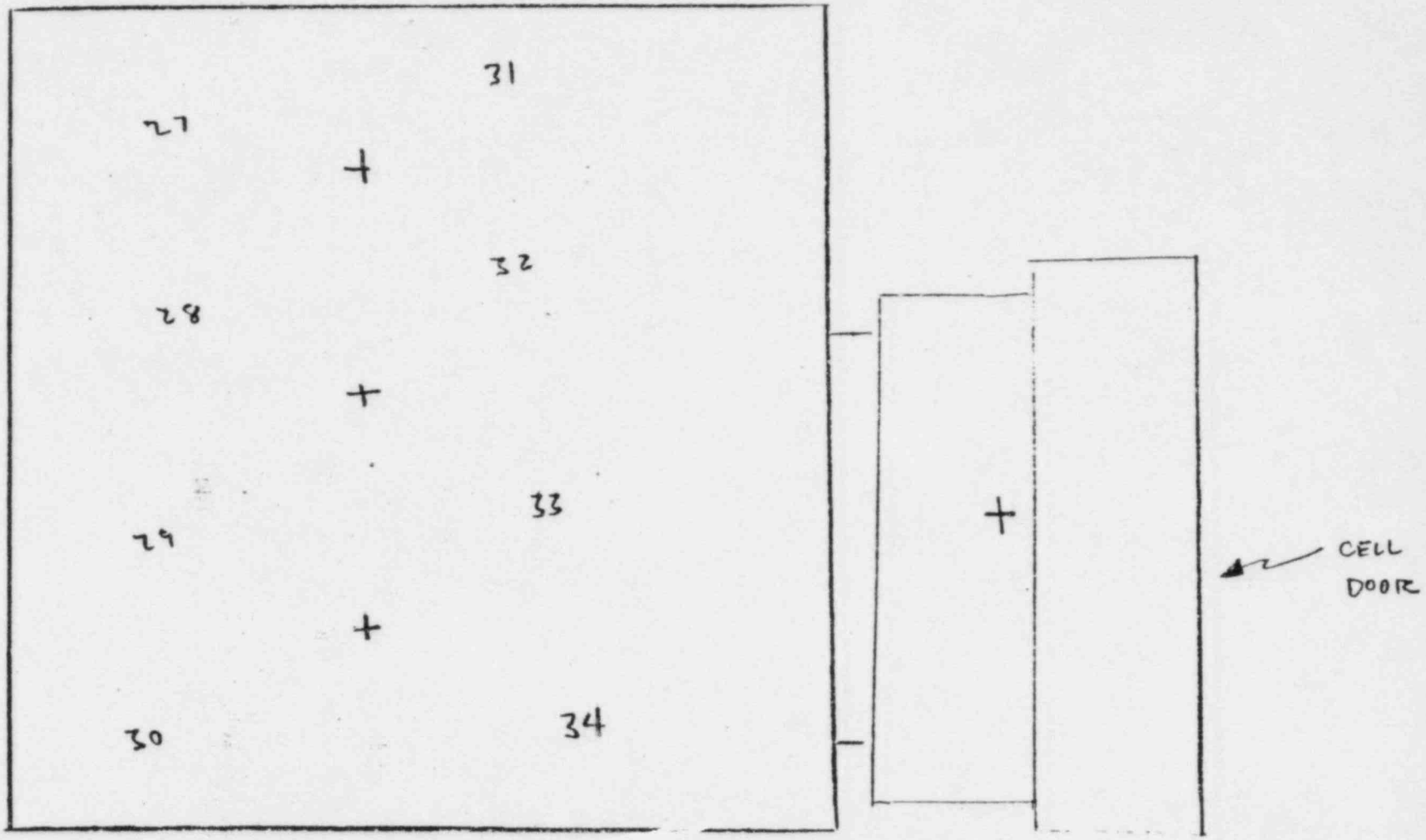
N



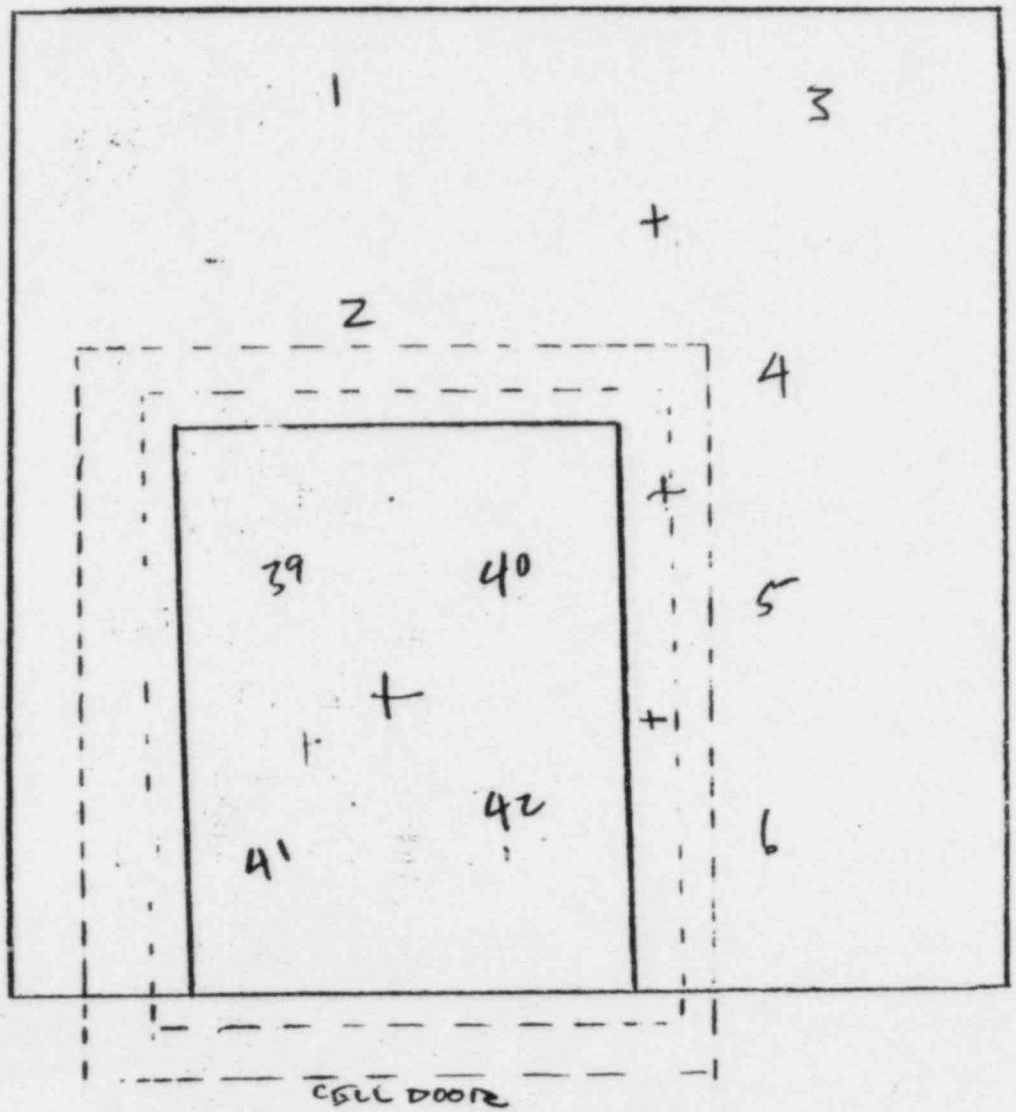
NORTH WALL OF AREA L



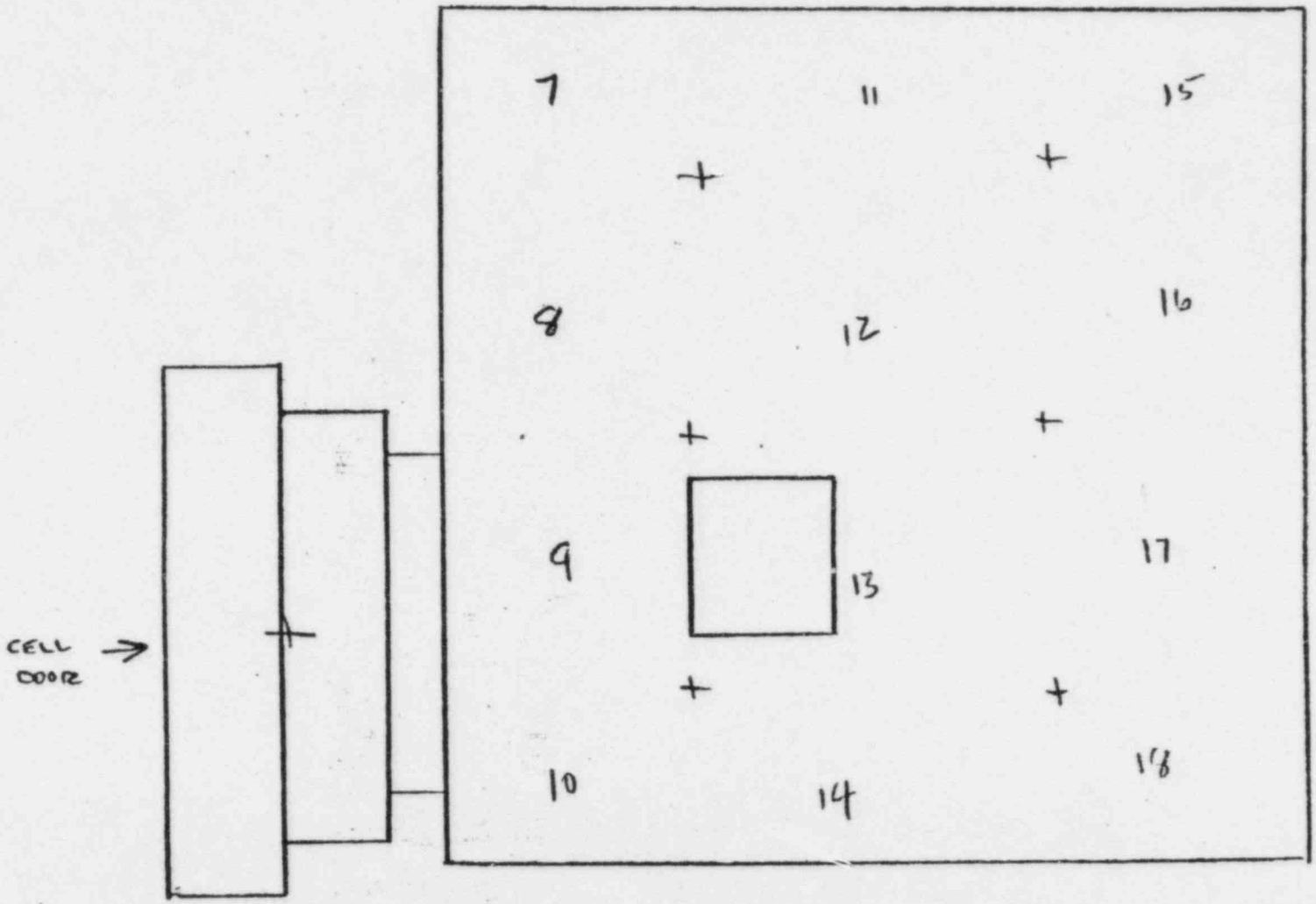
EAST WALL OF AREA L



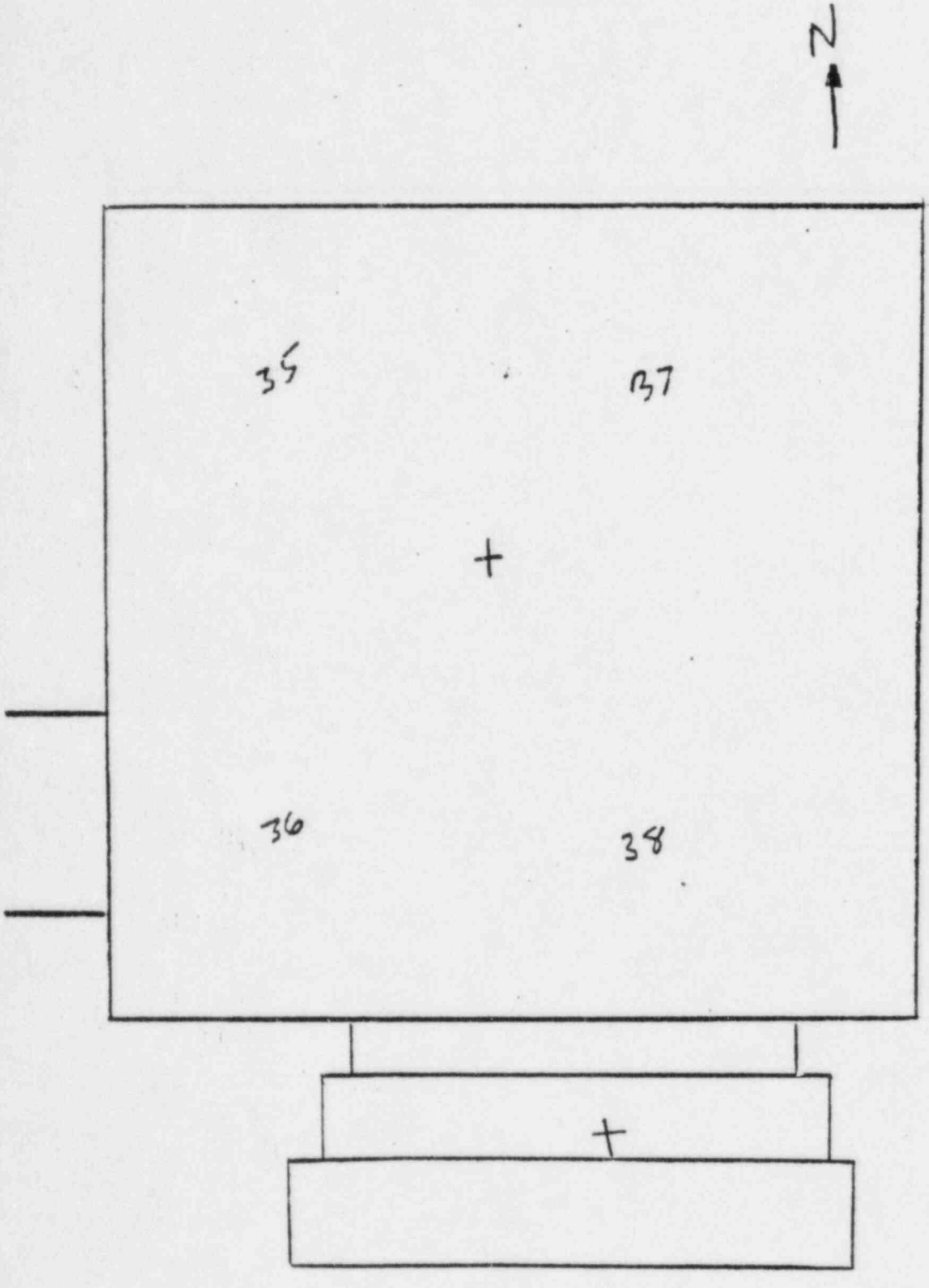
SOUTH WALL OF AREA L



WEST WALL OF AREA L



CEILING OF AREA L



WORK HISTORY OF AREA M

1. Informational Survey
2. Complete Wipe Down
3. Removal all Unnecessary Piping and Fixtures
4. Remove Cell Filter System
5. Wipe Down and Clean Pass thru Ports
6. Performed Close Out Survey

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 1 of 3
Area M

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ok Source Check 155 cpm
Background 63 Corr.Factor 16.16 dpm/cpm
Probe HP210

Fixed Activity

Meter E120 Ser.# 3540
Cal. Date ok Source Ck. ok
Background .08 Probe HP210

MDA = 307

Grid Location	Loose Activ. dpm/sq cm	Fixed Activ. mc/ml	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
M-1	420	.17	M-29	MDA		M-57	MDA	.17
M-2	MDA	.12	M-30	MDA	.15	M-58	MDA	.18
M-3	MDA	.12	M-31	MDA	.14	M-59	MDA	.15
M-4	MDA	.14	M-32	MDA	.12	M-60	MDA	.12
M-5	MDA	.15	M-33	MDA	.12	M-61	MDA	.12
M-6	MDA	.11	M-34	MDA	.12	M-62	MDA	.12
M-7	MDA	.15	M-35	MDA	.10	M-63	MDA	.14
M-8	356	.11	M-36	MDA	.14	M-64	MDA	.10
M-9	MDA	.16	M-37	MDA	.16	M-65	MDA	.13
M-10	MDA	.12	M-38	MDA	.12	M-66	MDA	.12
M-11	MDA	.14	M-39	MDA	.16	M-67	MDA	.12
M-12	MDA	.13	M-40	MDA	.14	M-68	MDA	.14
M-13	MDA	.18	M-41	MDA	.15	M-69	372	.14
M-14	MDA	.17	M-42	MDA	.14	M-70	MDA	.16
M-15	MDA	.12	M-43	MDA	.16	M-71	MDA	.12
M-16	MDA	.12	M-44	MDA	.16	M-72	MDA	.14
M-17	MDA	.11	M-45	MDA	.15	M-73	MDA	.08
M-18	MDA	.14	M-46	MDA	.14	M-74	MDA	.10
M-19	MDA	.15	M-47	402	.14	M-75	MDA	.12
M-20	MDA	.10	M-48	MDA	.16	M-76	MDA	.10
M-21	MDA	.14	M-49	404	.14	M-77	MDA	.10
M-22	MDA	.10	M-50	MDA	.14	M-78	MDA	.10
M-23	MDA	.12	M-51	MDA	.14	M-79	MDA	.10
M-24	MDA	.14	M-52	MDA	.16	M-80	MDA	.10
M-25	MDA	.16	M-53	372	.17	M-81	MDA	.12
M-26	MDA	.17	M-54	MDA	.18	M-82	MDA	.10
M-27	MDA	.18	M-55	MDA	.14	M-83	MDA	.12
M-28	MDA	.16	M-56	MDA	.15	M-84	MDA	.14

Surveyed by: [illegible]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 2 of 3
Area M

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ok Source Check 155 ccpm
Background 66 Corr.Factor 6.16 dpm/ccpm
Probe HP210

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .06 Probe HP210

MDA = 307 DPM

Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
M-85	MDA	.14	M-113	MDA	.15	M-141	MDA	.08
M-86	MDA	.12	M-114	MDA	.12	M-142	533	.10
M-87	MDA	.14	M-115	MDA	.12	M-143	MDA	.10
M-88	MDA	.12	M-116	MDA	.10	M-144	MDA	.10
M-89	MDA	.14	M-117	MDA	.14	M-145	MDA	.12
M-90	MDA	.12	M-118	MDA	.14	M-146	MDA	.14
M-91	MDA	.14	M-119	MDA	.11	M-147	339	.14
M-92	MDA	.14	M-120	MDA	.12	M-148	MDA	.16
M-93	MDA	.14	M-121	MDA	.12	M-149	MDA	.14
M-94	MDA	.14	M-122	MDA	.12	M-150	MDA	.16
M-95	MDA	.14	M-123	MDA	.18	M-151	MDA	.14
M-96	MDA	.18	M-124	MDA	.12	M-152	MDA	.14
M-97	MDA	.16	M-125	MDA	.14	M-153	MDA	.12
M-98	MDA	.CK	M-126	MDA	.12	M-154	MDA	.08
M-99	MDA	.12	M-127	MDA	.12	M-155	MDA	.10
M-100	MDA	.10	M-128	MDA	.10	M-156	MDA	.14
M-101	MDA	.12	M-129	MDA	.12	M-157	MDA	.14
M-102	MDA	.14	M-130	MDA	.14	M-158	MDA	.12
M-103	MDA	.14	M-131	MDA	.10	8 FNGS. THRU PORTS (*)		
M-104	MDA	.14	M-132	MDA	.14	ON TOP OF CELLS 1&2		
M-105	MDA	.16	M-133	MDA	.12	M-159	452	.10
M-106	MDA	.12	M-134	MDA	.14	M-160	MDA	.10
M-107	MDA	.14	M-135	MDA	.12	M-161	MDA	.08
M-108	MDA	.12	M-136	MDA	.08	M-162	MDA	.08
M-109	MDA	.16	M-137	MDA	.08	M-163	MDA	.06
M-110	MDA	.08	M-138	MDA	.12	M-164	MDA	.06
M-111	MDA	.10	M-139	MDA	.10	M-165	MDA	.10
M-112	MDA	.12	M-140	MDA	.12	M-166	MDA	.18

(*) READINGS OF PASS THRU PORTS WERE TAKEN

Surveyed by: [signature]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-11-80 Sheet 3 of 3
Area m

Loose Surface Activity

Meter PS-2 Ser.# 168
Cal. Date ok Source Check 155 cpm
Background 64 cpm Corr.Factor 16.16 DPM/CPM
Probe HP-210

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .08 Probe E177

MDA = 307 DPM

Grid Location	Loose Activ. DPM/100 cm²	Fixed Activ. mR/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
M-167	MDA	.35						
m-168	MDA	.06						
m-169	MDA	.05						
m-170	MDA	.10						
m-171	MDA	.08						
m-172	MDA	.06						
m-173	MDA	.08						

Surveyed by: [signature]

FLOOR PLAN

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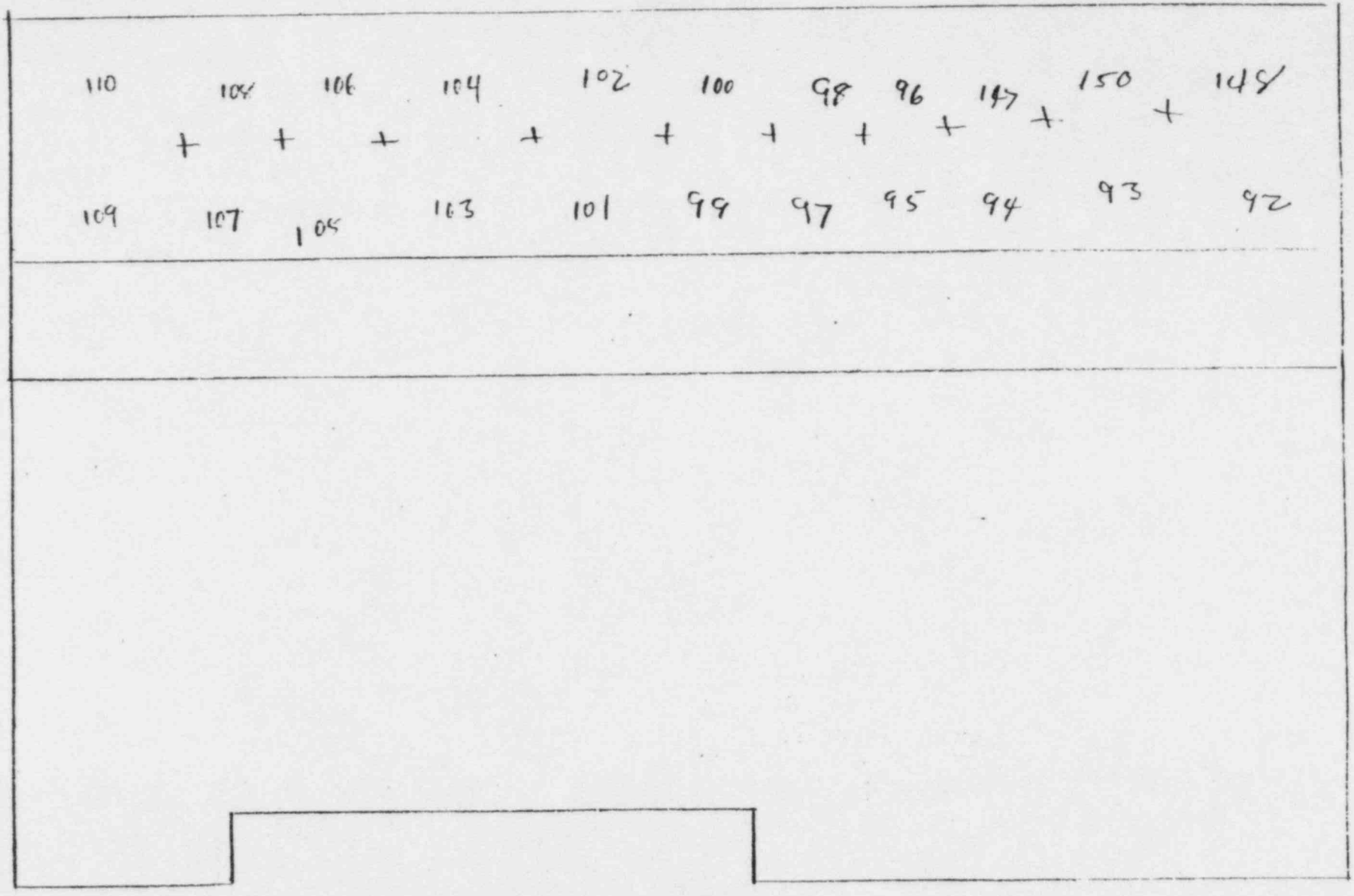
NORTH WALL AREA M

EAST WALL AREA M

09	19	29	39
+	+	+	+
22.	121	021	b11
+	+	+	
211	311	511	L11
+	+	+	
111	411	911	811

SOUTH WALL AREA M



WEST WALL AREA M

Work History of Area N

1. Informational Survey
2. Remove hot spots from floor.
3. Close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-80 Sheet 1 of 4
Area N

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date OK Source Check 206 c.p.m
Background 252 Corr.Factor 12.15 DPM/CPM
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 55240
Cal. Date OK Source Ck. OK
Background 10 Probe HP210

MDA = 450 DPM

Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. MR/HR
N-44	MDA	.16
N-45	MDA	.18
N-46	MDA	.20
N-47	MDA	.20
N-48	MDA	.20
N-49	MDA	.20
N-50	MDA	.18
N-51	MDA	.18
N-52	MDA	.20
N-53	MDA	.20
N-54	MDA	.20
N-55	MDA	.20
N-56	MDA	.20
N-57	MDA	.18
N-58	MDA	.20
N-59	MDA	.16
N-60	MDA	.20
N-61	MDA	.16
N-62	MDA	.18
N-63	MDA	.18
N-64	MDA	.16
N-65	MDA	.20
N-66	MDA	.20
N-67	MDA	.18
N-68	MDA	.18
N-69	MDA	.16
N-70	MDA	.16
N-71	MDA	.14
N-72	MDA	.18
N-73	MDA	.14
N-74	MDA	.16
N-75	MDA	.16
N-76	MDA	.16
N-77	MDA	.20
N-78	MDA	.20
N-79	MDA	.20
N-80	MDA	.20
N-81	MDA	.20
N-82	MDA	.20
N-83	MDA	.18
N-84	MDA	.20
N-85	MDA	.18
N-86	MDA	.18
N-87	MDA	.18
N-88	MDA	.20
N-89	MDA	.20
N-90	MDA	.18
N-91	MDA	.18
N-92	MDA	.20
N-93	MDA	.20
N-94	MDA	.18
N-95	MDA	.18
N-96	MDA	.18
N-97	MDA	.18
N-98	MDA	.20
N-99	MDA	.20
N-100	MDA	.18
N-101	MDA	.20
N-102	MDA	.18
N-103	MDA	.20
N-104	MDA	.20
N-105	MDA	.20
N-106	MDA	.20
N-107	MDA	.20
N-108	MDA	.18
N-109	MDA	.16
N-110	MDA	.18
N-111	MDA	.20
N-112	MDA	.20
N-113	MDA	.20
N-114	MDA	.20
N-115	MDA	.20
N-116	MDA	.20
N-117	MDA	.20
N-118	MDA	.20
N-119	MDA	.18
N-120	MDA	.20
N-121	MDA	.18
N-122	MDA	.16
N-123	MDA	.18
N-124	MDA	.16
N-125	MDA	.16
N-126	MDA	.20
N-127	MDA	.20

Surveyed by: [signature]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-80 Sheet 2 of 4
Area N

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ok Source Check 206 c/min
Background 252 Corr.Factor 17.15 dpm/c/m
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5520
Cal. Date ok Source Ck. ok
Background .10 Probe HP210

MDA = 450 dpm

Grid Location	Loose Activ. dpm/100cm²	Fixed Activ. mr/hr
N-128	MDA	.20
N-129	MDA	.18
N-130	MDA	.20
N-131	MDA	.18
N-132	MDA	.20
N-133	MDA	.20
N-134	MDA	.18
N-135	MDA	.18
N-136	MDA	.16
N-137	MDA	.16
N-138	MDA	.18
N-139	MDA	.14
N-140	MDA	.16
N-141	MDA	.18
N-142	MDA	.18
N-143	MDA	.18
N-144	MDA	.20
N-145	MDA	.20
N-146	MDA	.18
N-147	MDA	.20
N-148	MDA	.14
N-149	MDA	.14
N-150	MDA	.18
N-151	MDA	.18
N-152	MDA	.16
N-153	MDA	.14
N-154	MDA	.18
N-155	MDA	.18
N-156	MDA	.18
N-157	MDA	.18
N-158	MDA	.12
N-159	MDA	.14
N-160	MDA	.12
N-161	MDA	.16
N-162	MDA	.14
N-163	MDA	.14
N-164	MDA	.16
N-165	MDA	.12
N-166	MDA	.14
N-167	MDA	.16
N-168	MDA	.15
N-169	MDA	.14
N-170	MDA	.16
N-171	MDA	.15
N-172	MDA	.14
N-173	MDA	.12
N-174	MDA	.15
N-175	MDA	.18
N-176	MDA	.16
N-177	MDA	.14
N-178	MDA	.15
N-179	MDA	.16
N-180	MDA	.12
N-181	MDA	.12
N-182	MDA	.14
N-183	MDA	.15
N-184	MDA	.16
N-185	MDA	.16
N-186	MDA	.15
N-187	MDA	.14
N-188	MDA	.15
N-189	MDA	.16
N-190	MDA	.15
N-191	MDA	.14
N-192	MDA	.16
N-193	MDA	.16
N-194	MDA	.15
N-195	MDA	.16
N-196	MDA	.15
N-197	MDA	.16
N-198	MDA	.14
N-199	MDA	.18
N-200	MDA	.18
N-201	MDA	.16
N-202	MDA	.15
N-203	MDA	.15
N-204	MDA	.14
N-205	MDA	.14
N-206	MDA	.16
N-207	MDA	.15
N-208	MDA	.16
N-209	MDA	.15
N-210	MDA	.15
N-211	MDA	.14

Surveyed by:

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-90 Sheet 3 of 4
Area N

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date 2/ Source Check 206 cpm
Background 252 cpm Corr.Factor 1.215 dpm/cpm
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 8540
Cal. Date 2/ Source Ck. 2/
Background .10 Probe 44210

MDA = 450

Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. mR/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
N-212	583	.18	N-240	MDA	.12	N-268	MDA	.16
N-213	MDA	.16	N-241	MDA	.14	N-269	MDA	.14
N-214	MDA	.14	N-242	MDA	.12	N-270	MDA	.10
N-215	MDA	.14	N-243	MDA	.14	N-271	MDA	.10
N-216	MDA	.16	N-244	MDA	.14	N-272	MDA	.10
N-217	MDA	.18	N-245	814	.14	N-273	MDA	.08
N-218	MDA	.16	N-246	MDA	.14	N-274	MDA	.08
N-219	MDA	.15	N-247	MDA	.12	N-275	MDA	.08
N-220	MDA	.17	N-248	MDA	.10	N-276	MDA	.08
N-221	MDA	.18	N-249	MDA	.10	N-277	MDA	.12
N-222	MDA	.18	N-250	MDA	.12	N-278	MDA	.10
N-223	MDA	.16	N-251	MDA	.12	N-279	MDA	.10
N-224	MDA	.20	N-252	MDA	.14	N-280	MDA	.10
N-225	MDA	.16	N-253	MDA	.16			
N-226	MDA	.14	N-254	MDA	.12			
N-227	MDA	.18	N-255	MDA	.14			
N-228	MDA	.12	N-256	MDA	.14			
N-229	MDA	.14	N-257	MDA	.08			
N-230	MDA	.12	N-258	MDA	.08			
N-231	MDA	.14	N-259	MDA	.08			
N-232	MDA	.12	N-260	MDA	.10			
N-233	MDA	.12	N-261	MDA	.12			
N-234	MDA	.14	N-262	MDA	.12			
N-235	MDA	.12	N-263	MDA	.10			
N-236	MDA	.12	N-264	MDA	.10			
N-237	MDA	.14	N-265	MDA	.14			
N-238	MDA	.20	N-266	MDA	.12			
N-239	MDA	.16	N-267	MDA	.14			

Surveyed by: [illegible]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-25-80 Sheet 4 of 4
Area N CEILING

Loose Surface Activity

Meter MS-2 Ser.# 641
Cal. Date ok Source Check 175 cpm
Background 225 Corr.Factor 1393
Probe SP4-3

Fixed Activity

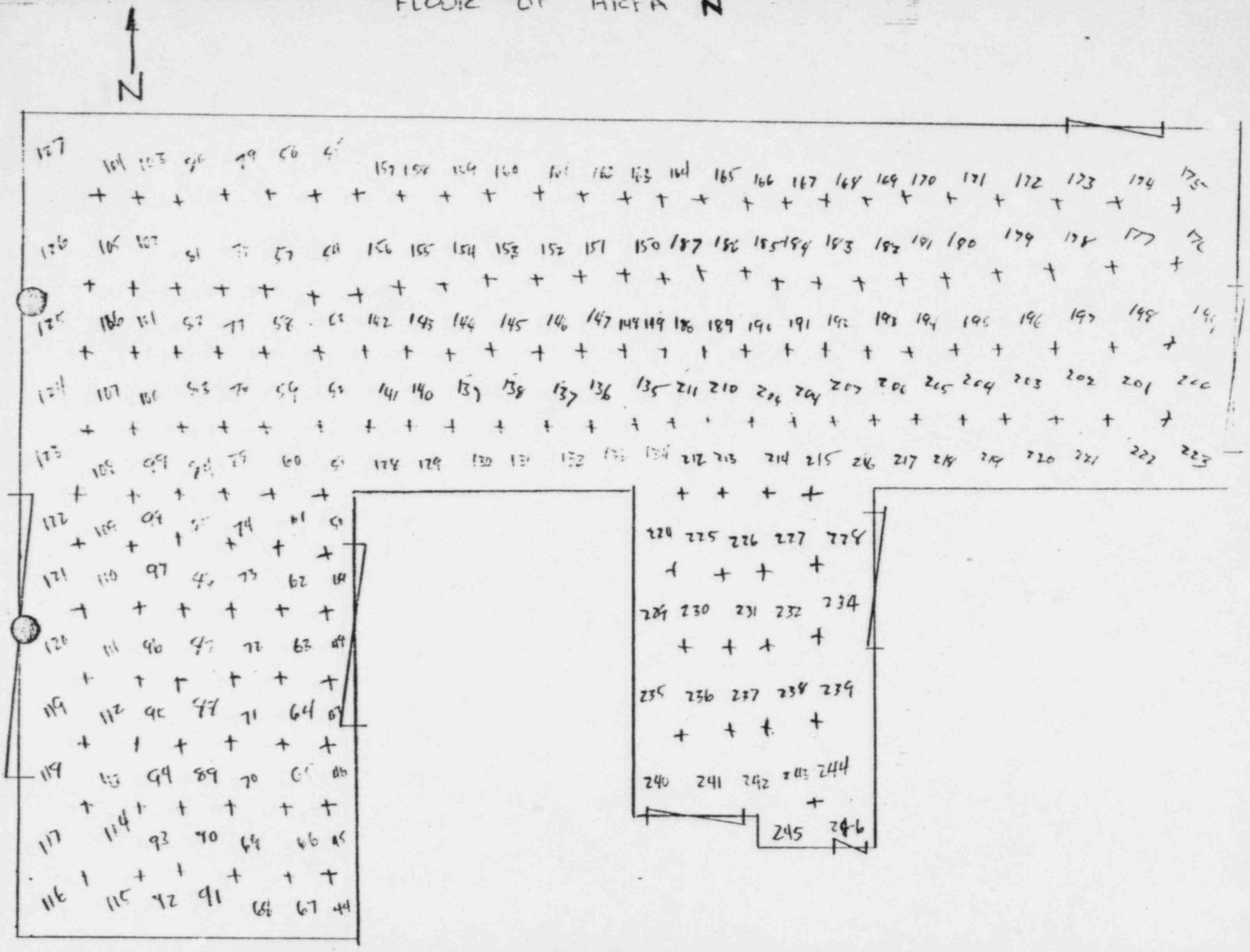
Meter E-120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .10 Probe HP210

MDA = 543

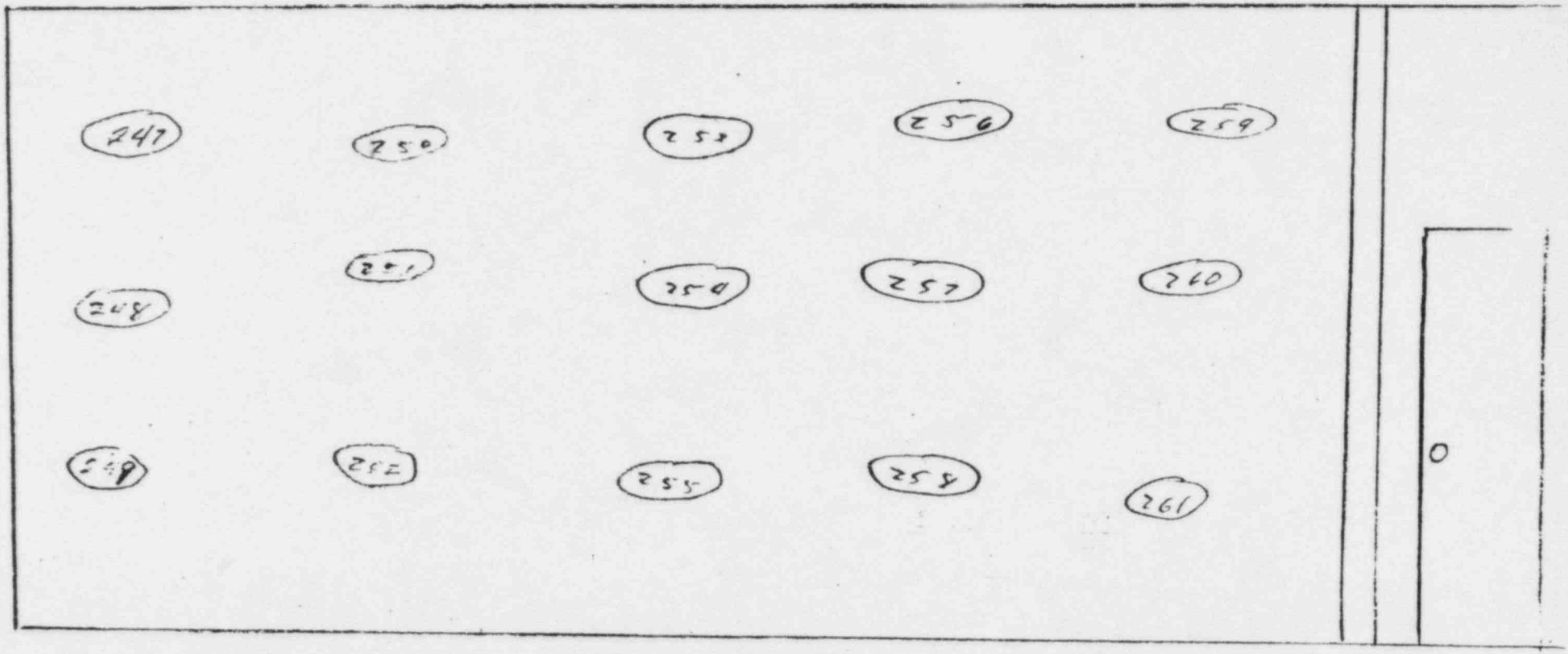
Grid Location	Loose Activ.	Fixed Activ. mR/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
1	MDA	.16	29	MDA	.10			
2	MDA	.12	30	MDA	.14			
3	MDA	.16						
4	MDA	.12						
5	MDA	.14						
6	MDA	.14						
7	MDA	.14						
8	MDA	.10						
9	MDA	.12						
10	MDA	.12						
11	MDA	.18						
12	MDA	.16						
13	MDA	.12						
14	MDA	.12						
15	MDA	.08						
16	MDA	.10						
17	MDA	.10						
18	MDA	.12						
19	MDA	.12						
20	MDA	.12						
21	MDA	.12						
22	MDA	.10						
23	MDA	.10						
24	MDA	.10						
25	MDA	.08						
26	MDA	.08						
27	MDA	.12						
28	MDA	.10						

Surveyed by: [illegible]

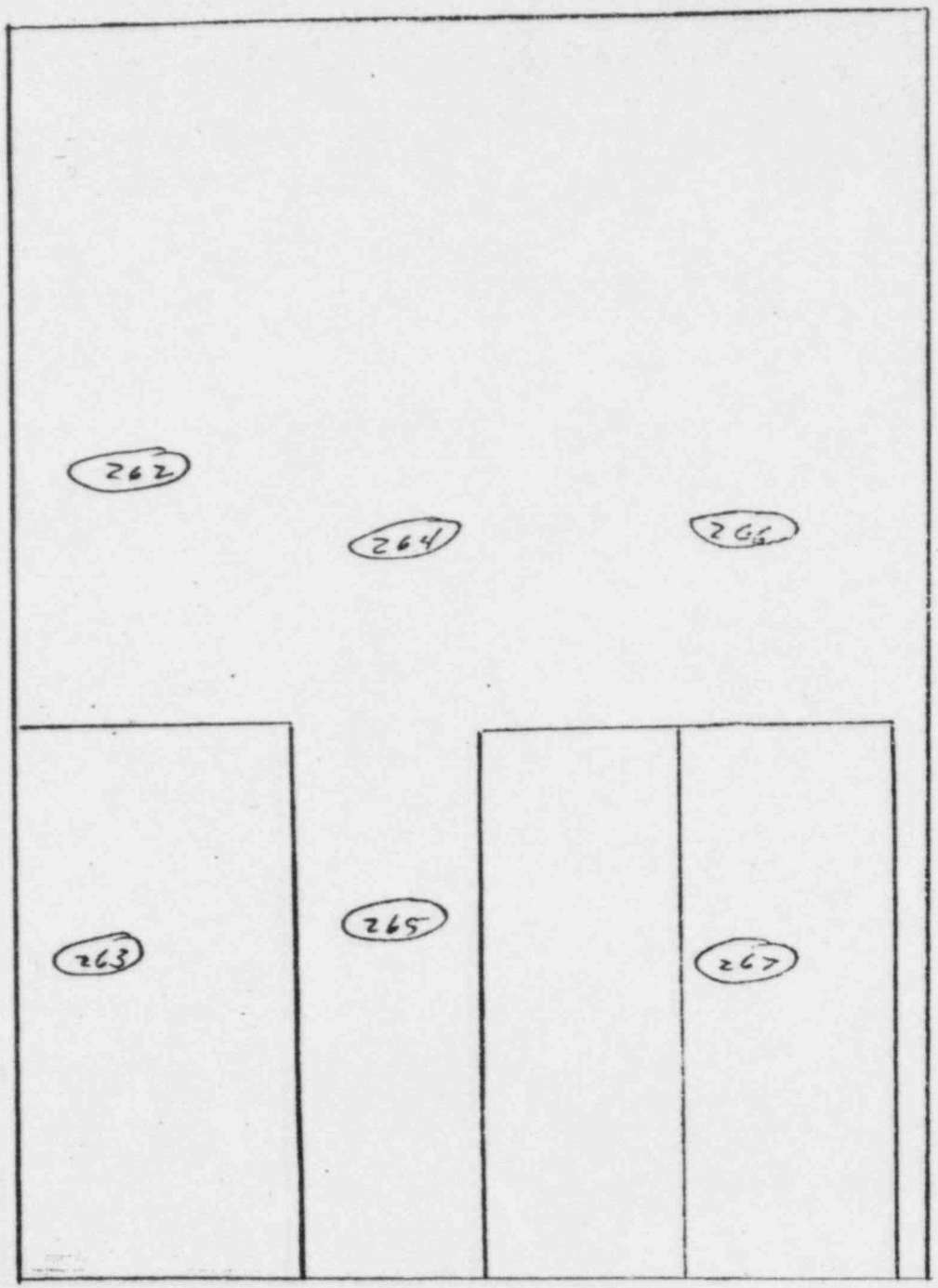
FLOOR OF AREA N



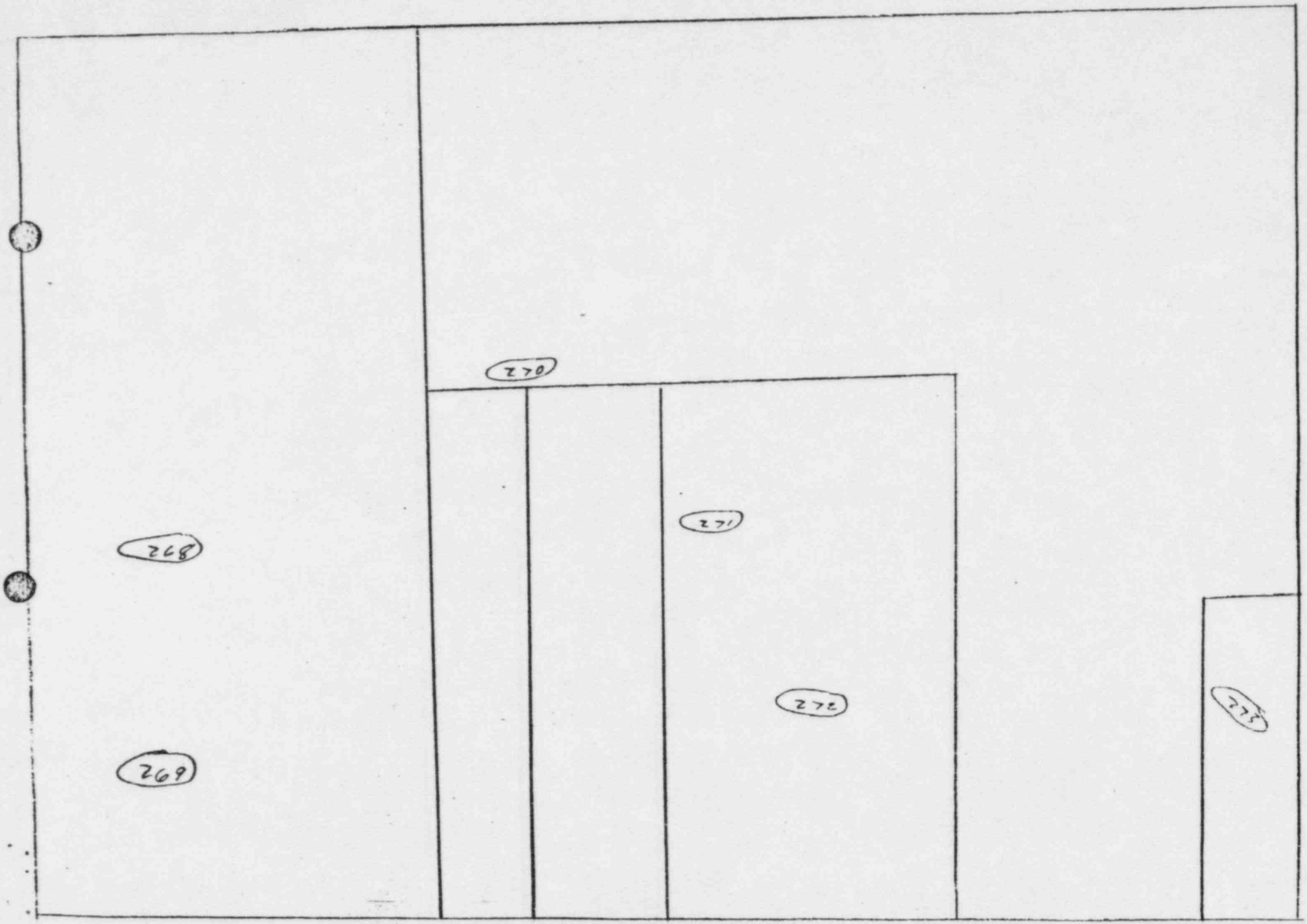
NORTH WALL AREA N



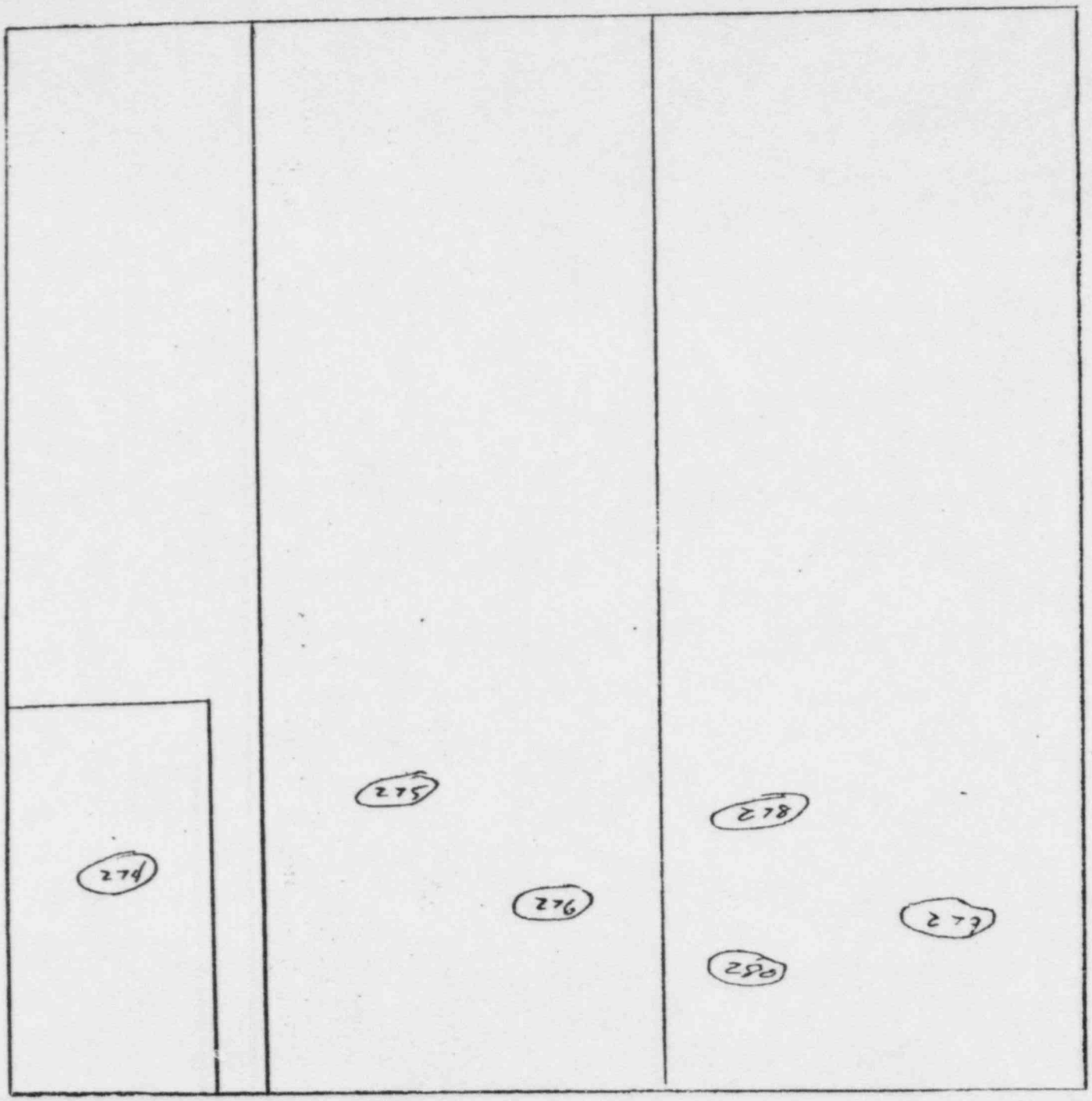
EAST WALL OF AREA N



SOUTH WALL OF AREA N



WEST WALL OF AREA N



WORK HISTORY OF AREA O P

1. Remove Water
2. Informational Survey
3. Paint and Remove Strippable Paint
4. Wipe Down
5. Scale Concrete off Floor and Walls
6. Perform Close Out Survey

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-80
Area OP

Sheet 1 of 1

Loose Surface Activity

Meter RM-2 Ser.# 681
Cal. Date 0 Source Check 206 dpm
Background 252 Corr.Factor 1215
Probe SPA-3

Fixed Activity

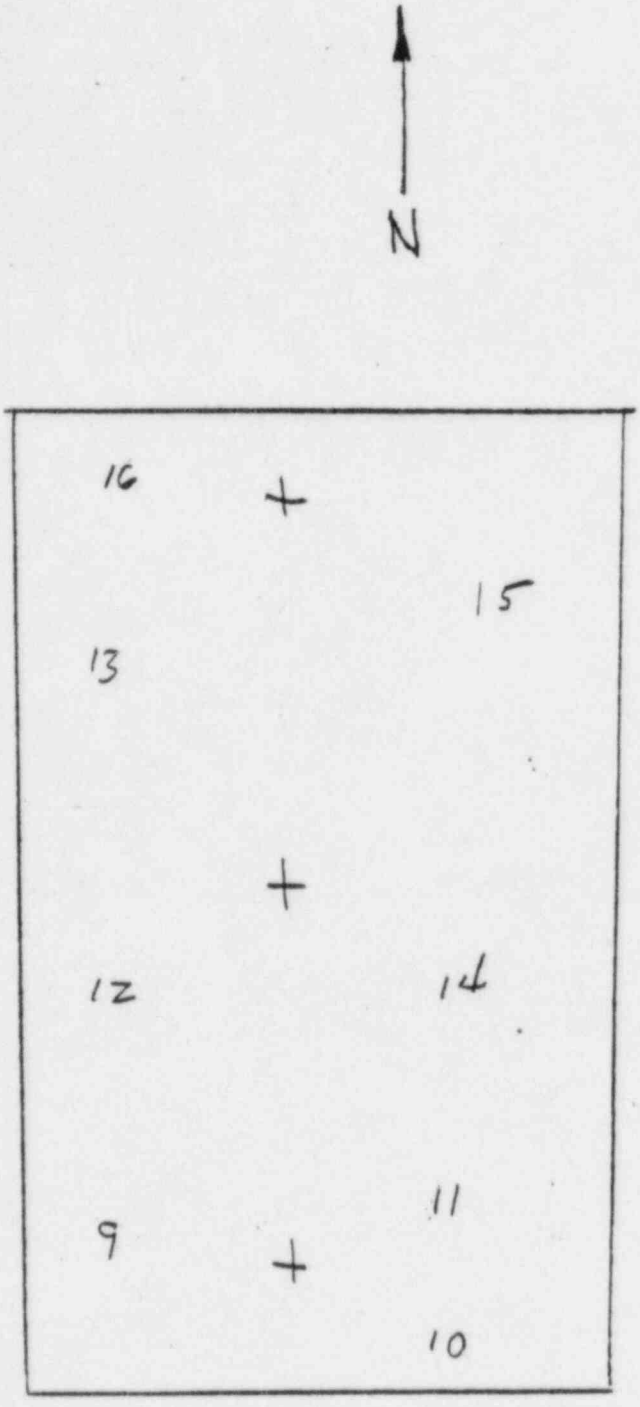
Meter E120 Ser.# 5540
Cal. Date 0 Source Ck. 0
Background .10 Probe HP310

MDA = 450 DPM

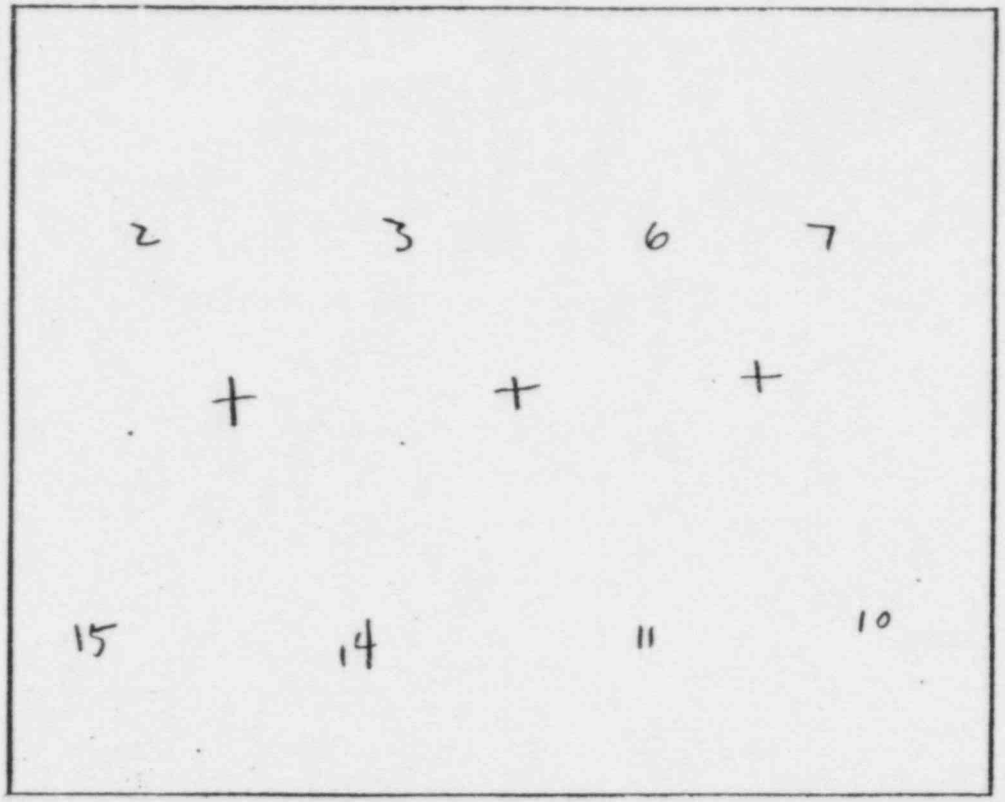
Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. MR/HR	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
OP-1	MDA	.20						
OP-2	MDA	.18						
OP-3	MDA	.10						
OP-4	MDA	.12						
OP-5	MDA	.10						
OP-6	MDA	.20						
OP-7	MDA	.20						
OP-8	MDA	.20						
OP-9	MDA	.14						
OP-10	MDA	.14						
OP-11	MDA	.10						
OP-12	MDA	.10						
OP-13	MDA	.08						
OP-14	MDA	.10						
OP-15	MDA	.14						
OP-16	MDA	.10						

Surveyed by:

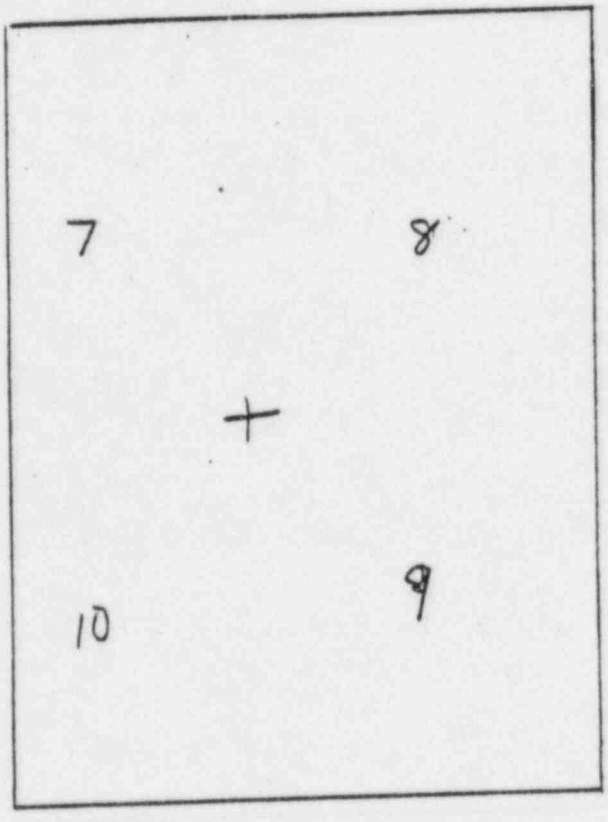
FLOOR AREA OP



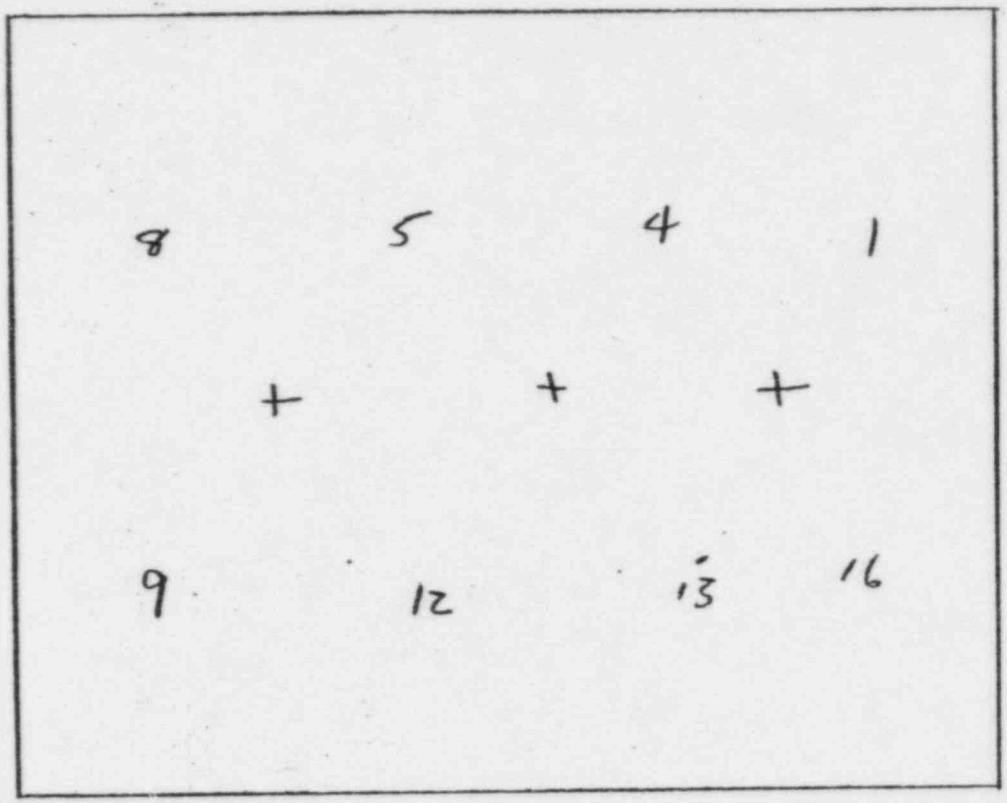
EAST WALL AREA OP



SOUTH WALL AREA OP



WEST WALL AREA OP



WORKED PERFORMED IN AREA P (MAIN POOL)

1. Informational Survey
2. Remove Water
3. Refill Water and Attempted Scrubbing Walls
4. Remove Water
5. Scale Concrete of Walls and Bottom Twice
6. Clean Out Rubble
7. Perform Close Out Survey

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-13-15 Sheet 1 of 1
Area POOL (P)

Loose Surface Activity

Meter RM5-2 Ser.# 661
Cal. Date 01 Source Check 189
Background 253 Corr.Factor 1.325
Probe SPA-3

Fixed Activity

Meter E-120 Ser.# 55-40
Cal. Date 01 Source Ck. 01
Background .10 Probe HP-210

MDA = 490 dpm

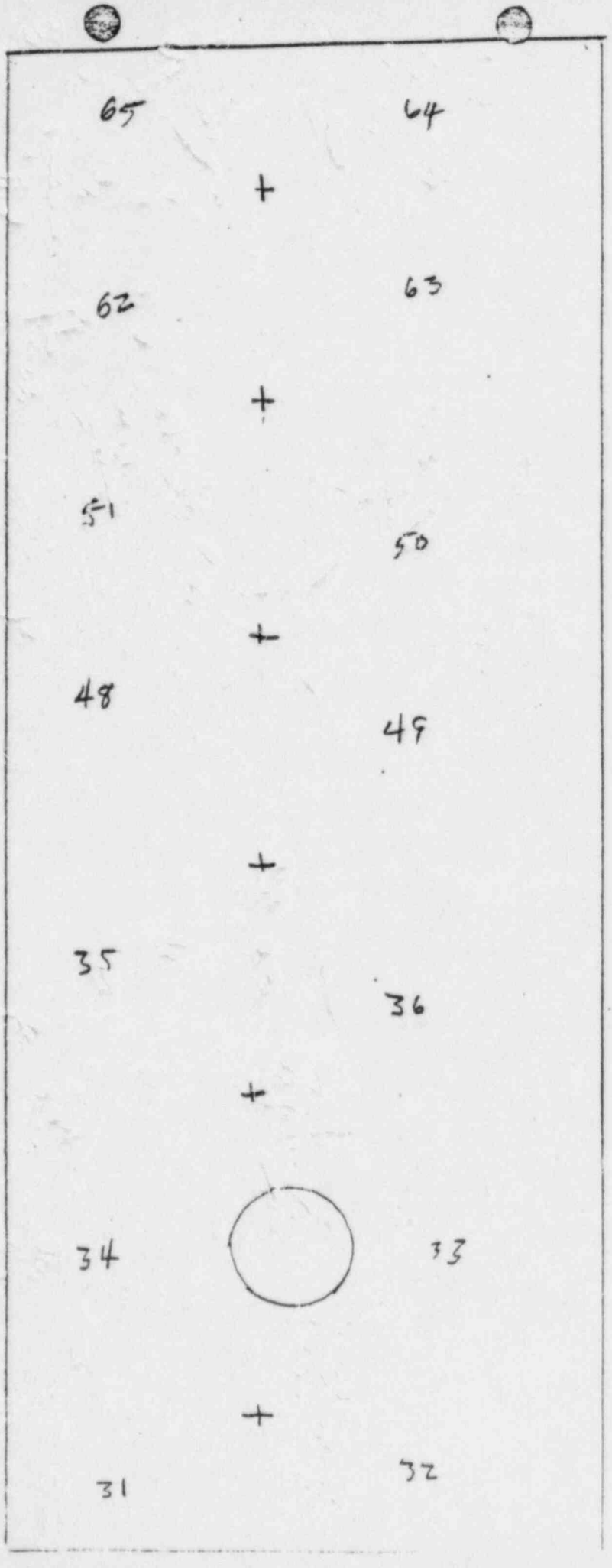
Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. MR/HR	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
1	MDA	.10	29	MDA	.18	57	MDA	.12
2	MDA	.14	30	MDA	.12	58	MDA	.10
3	MDA	.10	31	MDA	.14	59	MDA	.14
4	MDA	.12	32	MDA	.14	60	MDA	.12
5	MDA	.12	33	649	.20	61	MDA	.12
6	MDA	.12	34	MDA	.20	62	MDA	.10
7	MDA	.12	35	MDA	.18	63	MDA	.20
8	517	.12	36	MDA	.14	64	MDA	.10
9	MDA	.12	37	MDA	.12	65	MDA	.08
10	MDA	.12	38	MDA	.12	66	MDA	.10
11	MDA	.12	39	MDA	.20	67	MDA	.10
12	MDA	.10	40	MDA	.18	68	MDA	.18
13	MDA	.14	41	MDA	.12	69	MDA	.12
14	MDA	.12	42	MDA	.16	70	MDA	.10
15	MDA	.12	43	MDA	.12	71	MDA	.14
16	MDA	.18	44	MDA	.10	72	MDA	.12
17	MDA	.10	45	MDA	.14	73	MDA	.14
18	MDA	.12	46	MDA	.18	74	MDA	.16
19	MDA	.20	47	MDA	.20	75	MDA	.16
20	MDA	.20	48	MDA	.20	76	MDA	.18
21	MDA	.20	49	MDA	.12			
22	MDA	.20	50	MDA	.18			
23	MDA	.20	51	MDA	.20			
24	MDA	.12	52	MDA	.12			
25	MDA	.16	53	MDA	.20			
26	MDA	.18	54	MDA	.12			
27	MDA	.15	55	MDA	.10			
28	MDA	.12	56	MDA	.12			

Surveyed by:

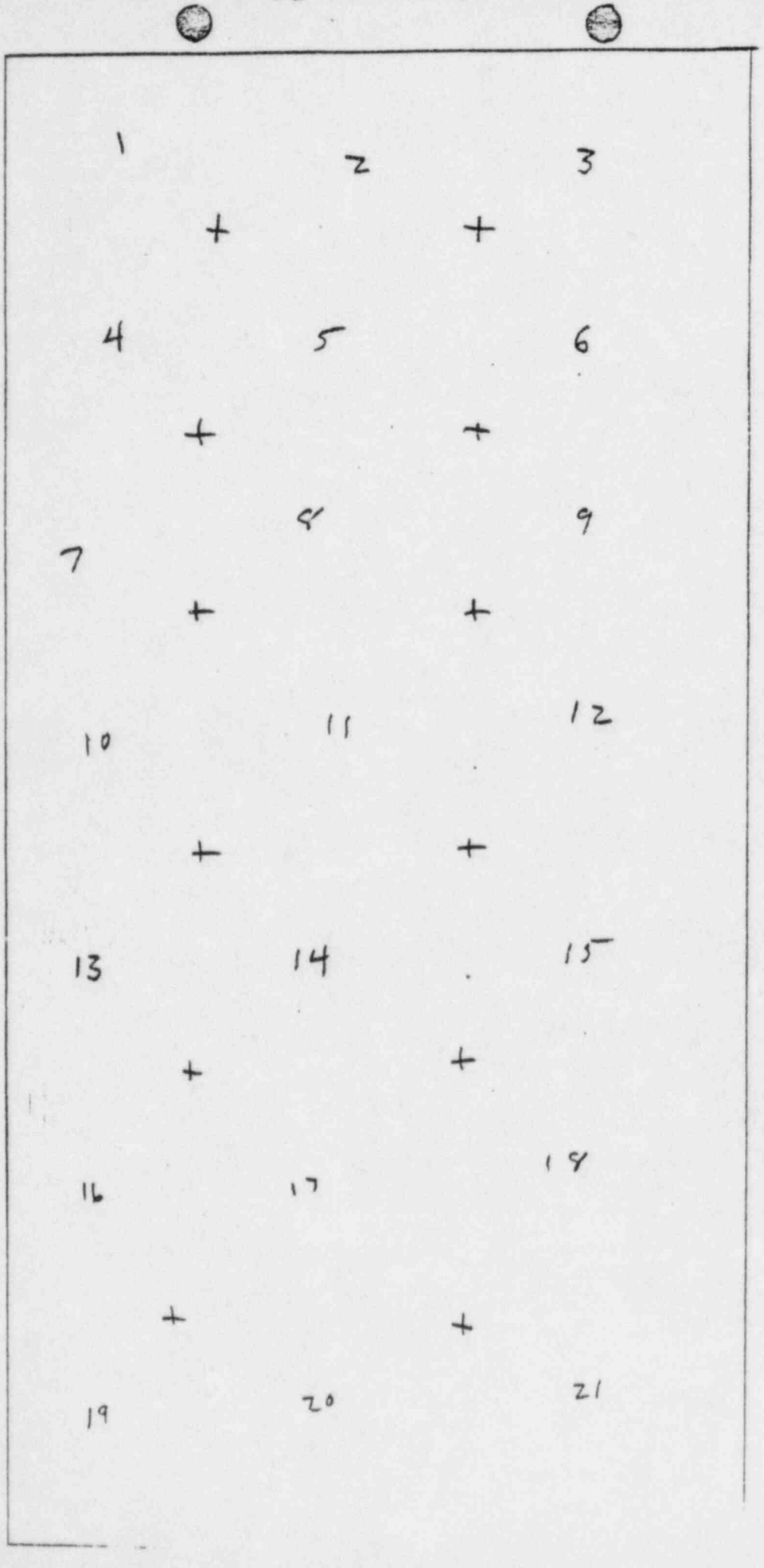
FLOOR AREA P

N

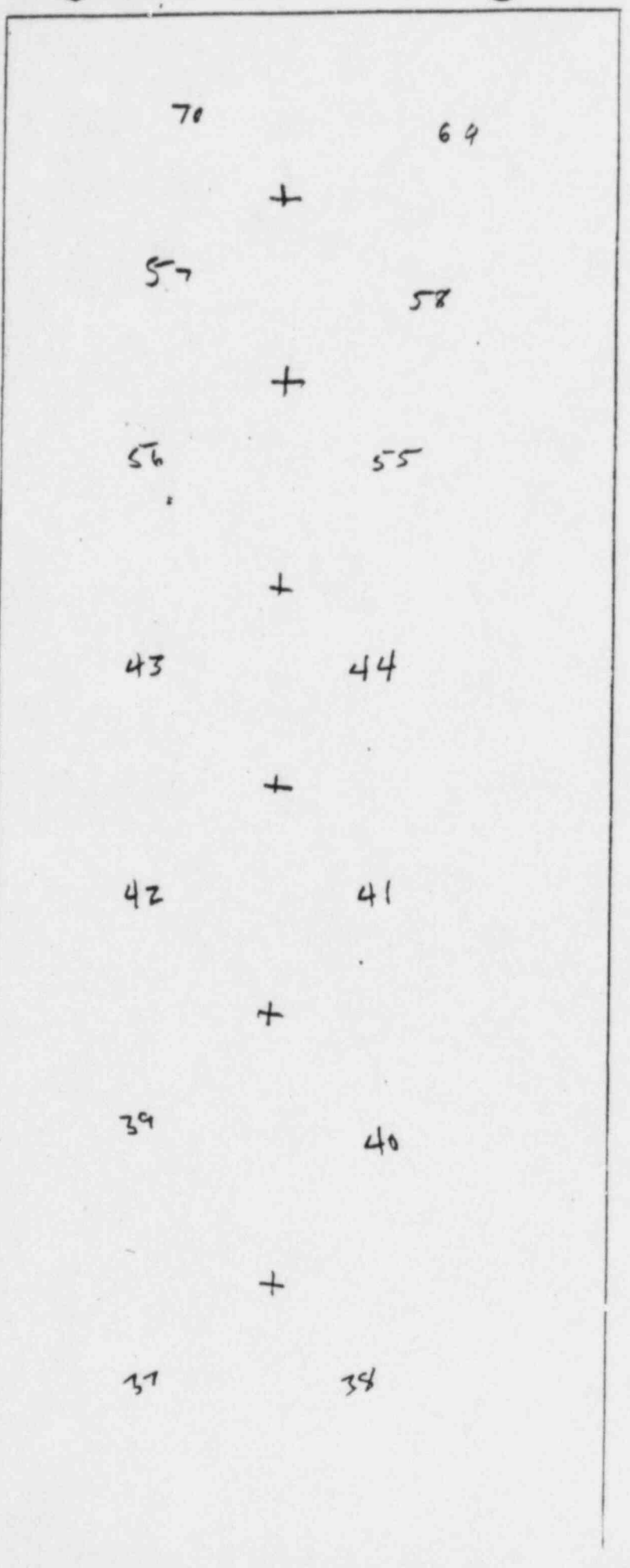
NORTH WALL MIDDLE



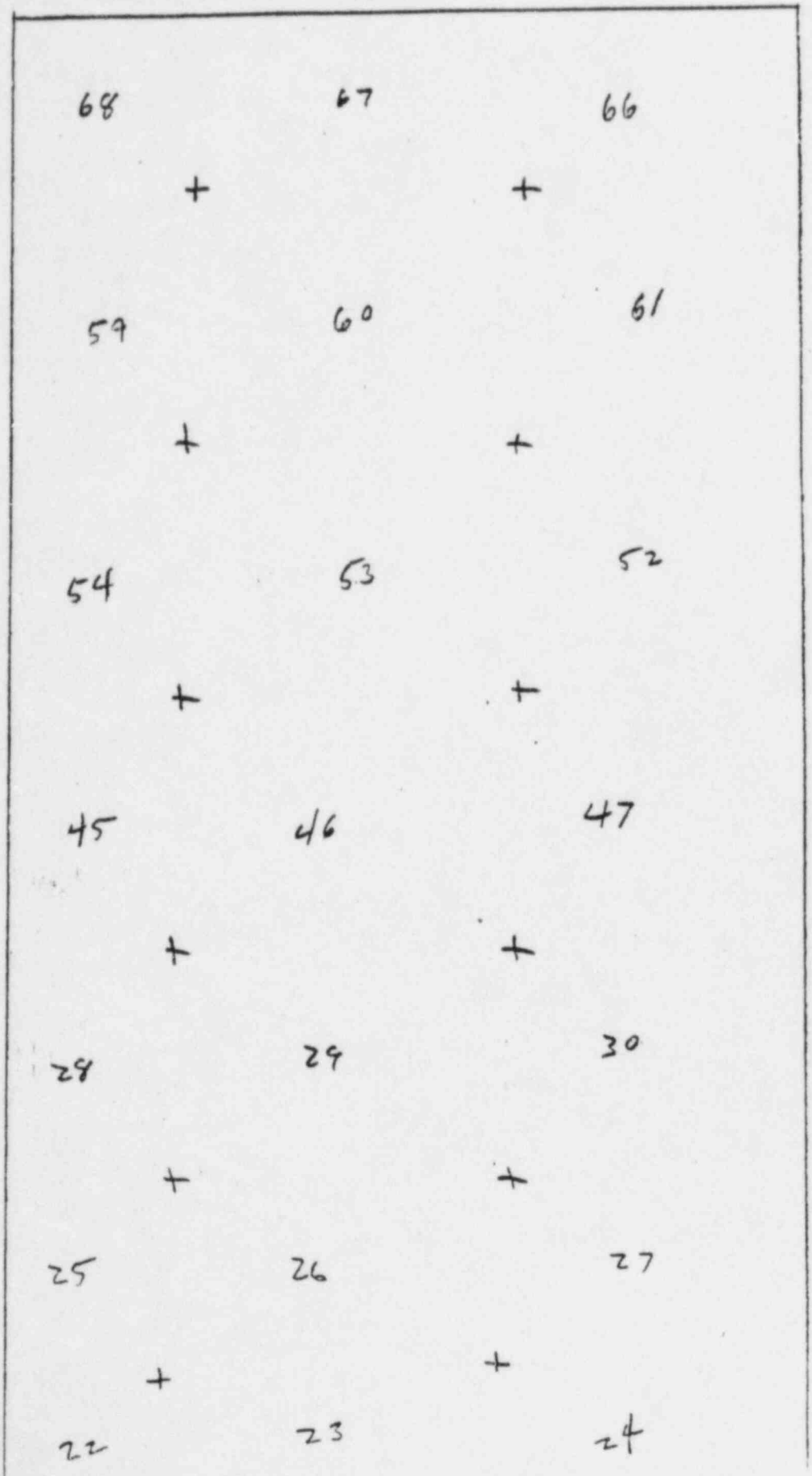
EAST WALL AREA P



SOUTH WALL AREA P



WEST WALL AREA P



Work History of Area Q

1. Informational Survey.
2. Wipe down area.
3. Area used for radioactive storage.
4. Remove hot spots from floor.
5. Perform close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-80 Sheet 1 of 2
Area Q

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date [illegible] Source Check 206 c/p m
Background 252 c/p m Corr.Factor 12.15
Probe 5PA-3

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date [illegible] Source Ck. [illegible]
Background .10 Probe HP210

MDA = 450 DPM

Grid Location	Loose Activ. Dpm/100 cm²	Fixed Activ. MR/HR
Q-1	MDA	.14
Q-2	MDA	.16
Q-3	MDA	.20
Q-4	MDA	.12
Q-5	MDA	.10
Q-6	MDA	.18
Q-7	MDA	.18
Q-8	MDA	.17
Q-9	MDA	.18
Q-10	MDA	.16
Q-11	MDA	.12
Q-12	MDA	.18
Q-13	MDA	.14
Q-14	MDA	.20
Q-15	MDA	.20
Q-16	MDA	.20
Q-17	MDA	.14
Q-18	MDA	.20
Q-19	MDA	.20
Q-20	MDA	.20
Q-21	MDA	.18
Q-22	MDA	.20
Q-23	MDA	.20
Q-24	MDA	.20
Q-25	MDA	.19
Q-26	MDA	.16
Q-27	MDA	.14
Q-28	MDA	.20
Q-29	MDA	.20
Q-30	MDA	.20
Q-31	MDA	.14
Q-32	MDA	.14
Q-33	MDA	.14
Q-34	MDA	.13
Q-35	MDA	.16
Q-36	MDA	.16
Q-37	MDA	.16
Q-38	MDA	.16
Q-39	MDA	.16
Q-40	MDA	.14
Q-41	MDA	.20
Q-42	MDA	.16
Q-43	MDA	.20
Q-44	MDA	.14
Q-45	MDA	.14
Q-46	802	.16
Q-47	MDA	.14
Q-48	MDA	.14
Q-49	MDA	.16
Q-50	MDA	.18
Q-51	656	.16
Q-52	MDA	.12
Q-53	MDA	.14
Q-54	MDA	.16
Q-55	MDA	.16
Q-56	MDA	.16
Q-57	MDA	.12
Q-58	MDA	.14
Q-59	MDA	.14
Q-60	MDA	.12
Q-61	MDA	.14
Q-62	MDA	.12
Q-63	MDA	.16
Q-64	MDA	.12
Q-65	571	.14
Q-66	MDA	.14
Q-67	655	.16
Q-68	MDA	.14
Q-69	MDA	.16
Q-70	MDA	.14
Q-71	717	.16
Q-72	MDA	.12
Q-73	MDA	.12
Q-74	MDA	.12
Q-75	MDA	.10
Q-76	MDA	.12
Q-77	MDA	.12
Q-78	MDA	.14
Q-79	MDA	.14
Q-80	MDA	.16
Q-81	MDA	.14
Q-82	MDA	.12
Q-83	632	.14
Q-84	MDA	.14

Surveyed by: [signature]

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24/-80 Sheet 2 of 2
Area Q

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date [illegible] Source Check 206 c/m
Background 252 c/m Corr.Factor 12.15
Probe SPA-3

Fixed Activity

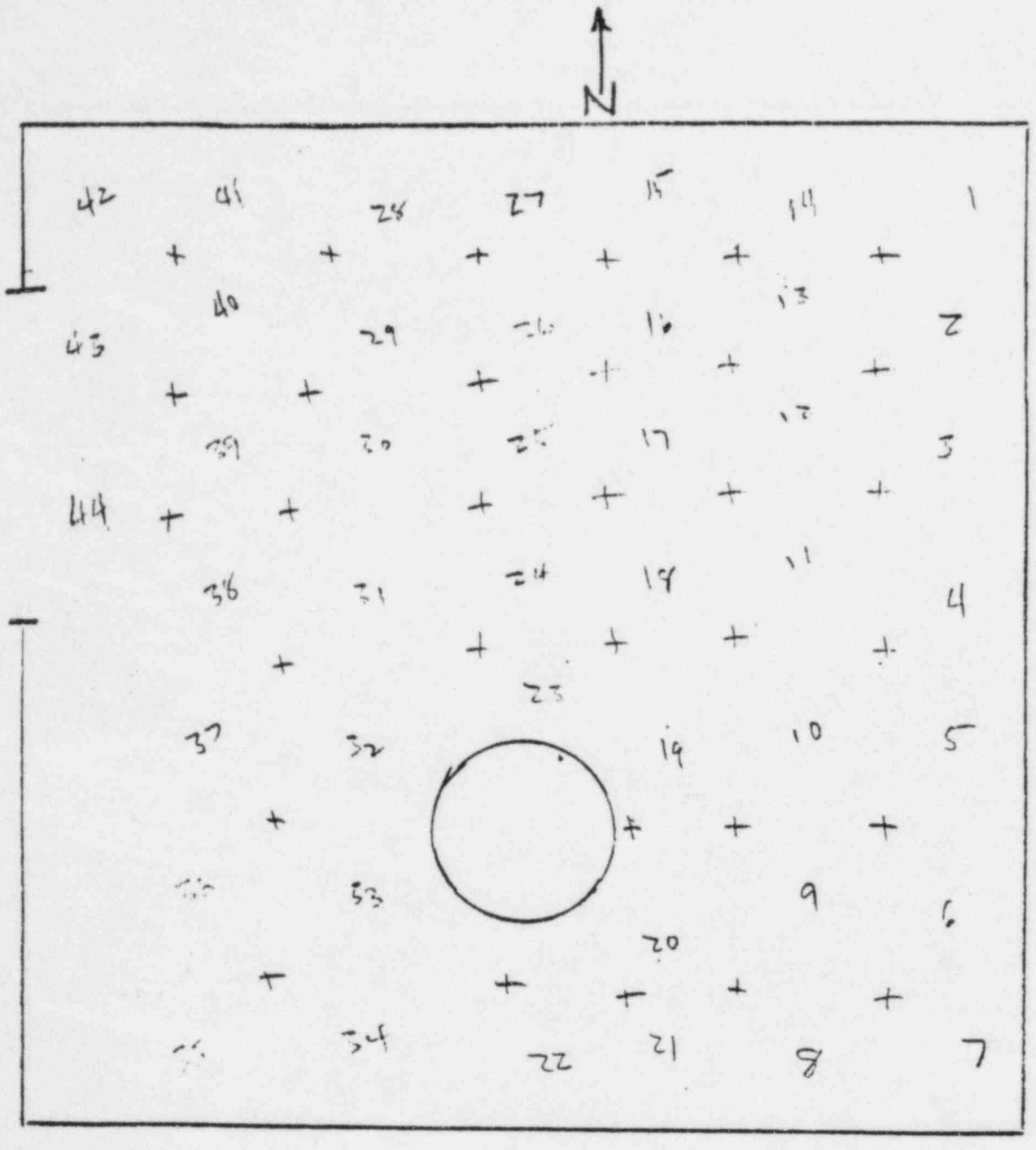
Meter E-120 Ser.# 5340
Cal. Date [illegible] Source Ck. [illegible]
Background .10 Probe HP210

MDA = 450 d/m

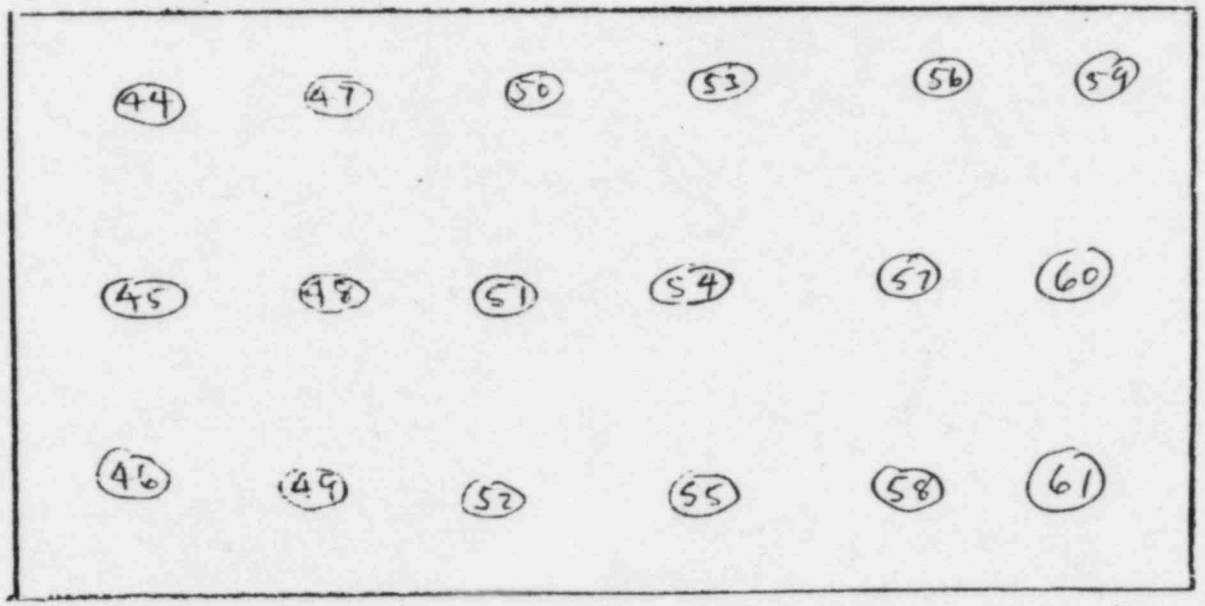
Grid Location	Loose Activ. dpm/100cm²	Fixed Activ. mR/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
Q-85	559	.12	Q 113	MDA	.16			
Q-86	MDA	.12	Q 114	MDA	.16			
Q-87	MDA	.16	Q 115	MDA	.12			
Q-88	MDA	.12	Q 116	MDA	.16			
Q-89	MDA	.14	Q 117	MDA	.12			
Q-90	MDA	.14	Q 118	MDA	.16			
Q-91	MDA	.14	Q 119	MDA	.12			
Q 92	MDA	.14	Q 120	MDA	.12			
Q 93	MDA	.14	Q 121	MDA	.16			
Q-94	MDA	.16						
Q-95	MDA	.12						
Q-96	MDA	.14						
Q-97	MDA	.16						
Q 98	MDA	.16						
Q-99	MDA	.16						
Q 100	MDA	.14						
Q 101	MDA	.14						
Q 102	MDA	.16						
Q -103	MDA	.12						
Q 104	MDA	.12						
Q 105	MDA	.16						
Q 106	MDA	.12						
Q 107	MDA	.12						
Q 108	MDA	.12						
Q 109	MDA	.16						
Q 110	765	.12						
Q 111	MDA	.16						
Q 112	MDA	.12						

Surveyed by:

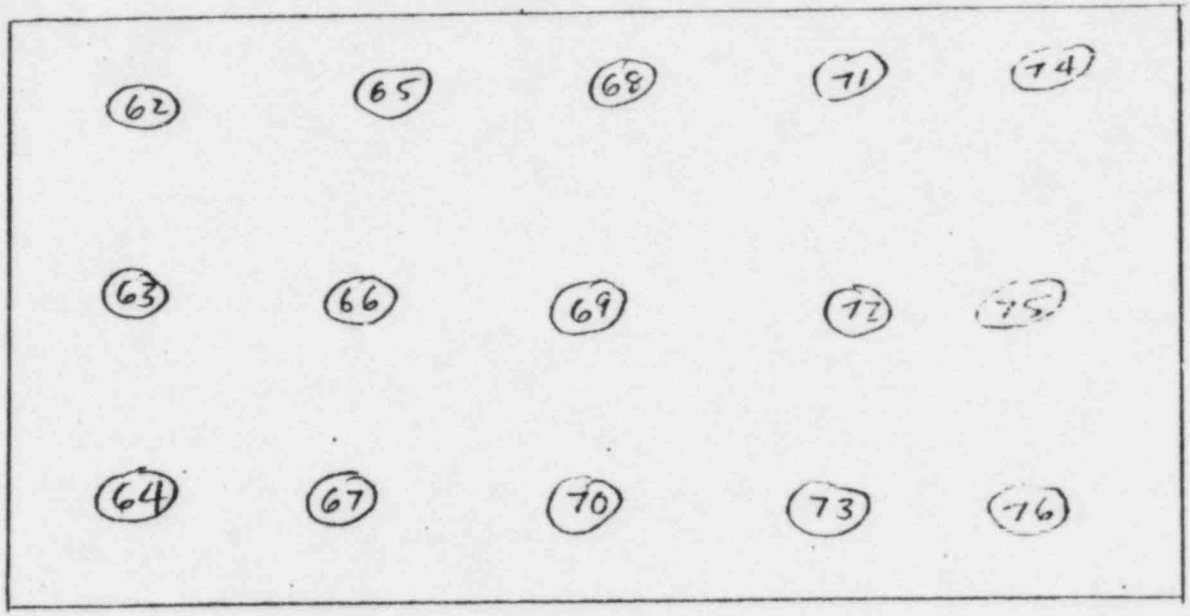
FLOOR OF AREA Q



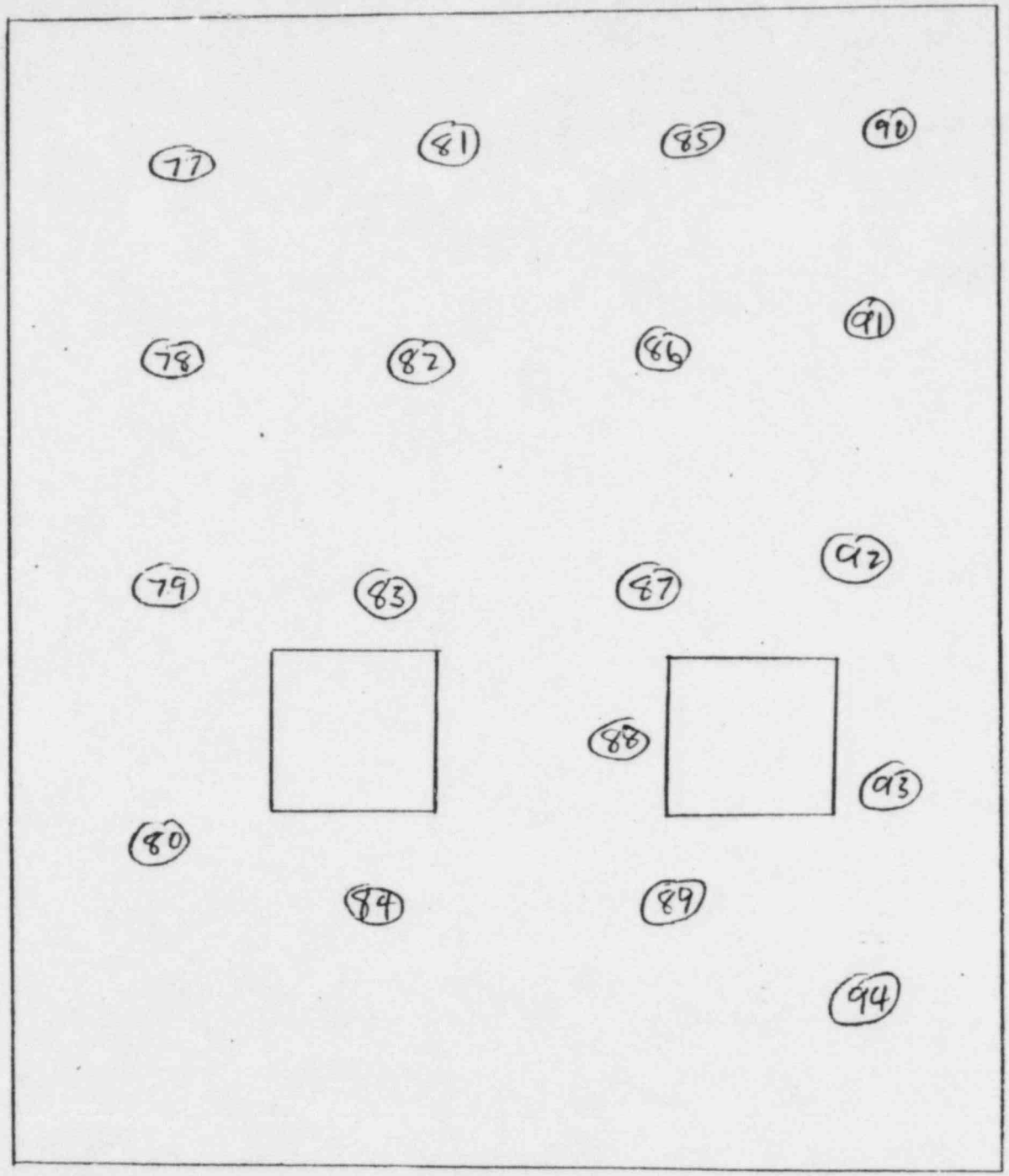
NORTH WALL AREA Q



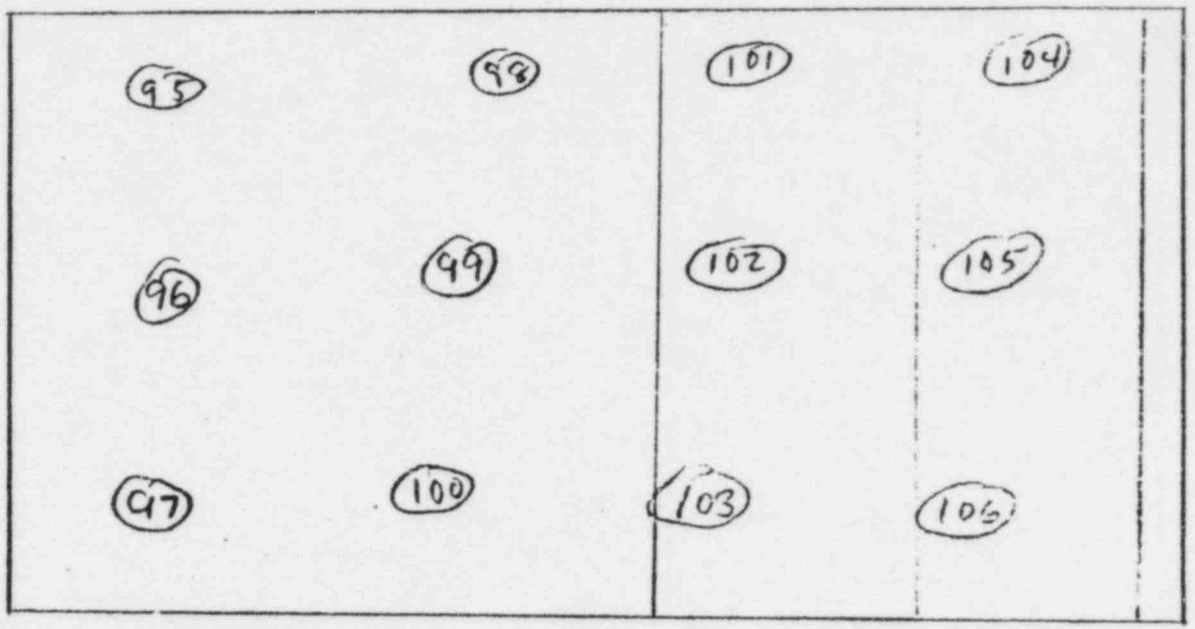
EAST WALL AREA Q



SOUTH WALL AREA Q



WEST WALL OF AREA Q



Work History of Area R

1. Informational Survey.
2. Perform close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-88 Sheet 1 of 1
Area R

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date 2 Source Check 306 cpm
Background 252 cpm Corr.Factor 12.15 dpm/cpm
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5540
Cal. Date 2 Source Ck. ✓
Background .10 Probe HP-210

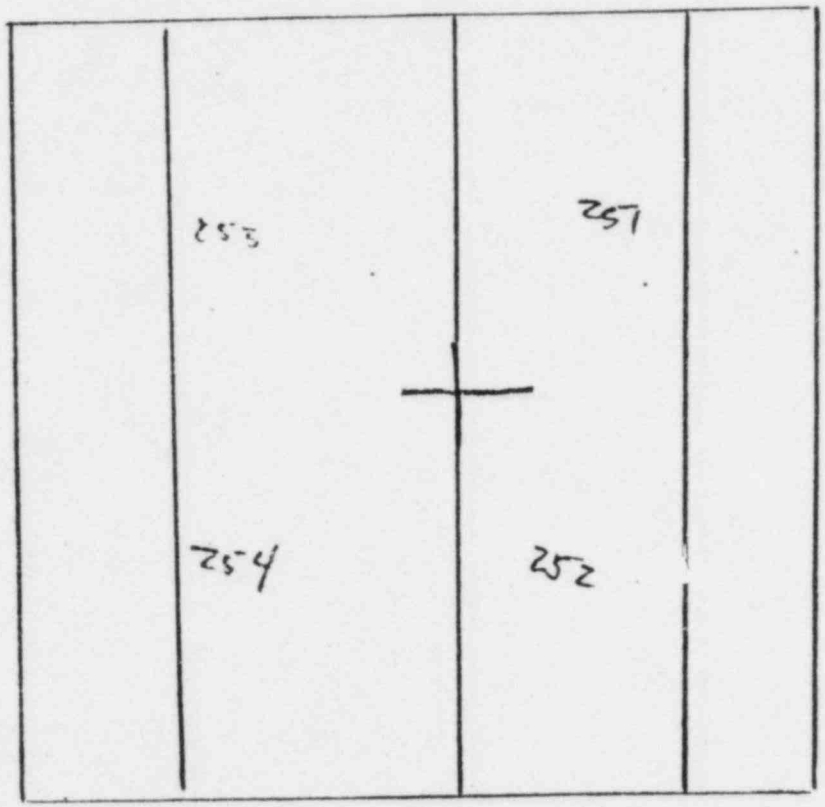
MDA = 450 dpm

Grid Location	Loose Activ. dpm/100cm²	Fixed Activ. mr/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
R-247	MDA	.08						
R-248	MDA	.08						
R-249	MDA	.12						
R-250	MDA	.12						
R-251	MDA	.10						
R-252	MDA	.10						
R-253	MDA	.12						
R-254	MDA	.08						
R-255	MDA	.08						
R-256	MDA	.10						
R-257	MDA	.08						
R-258	MDA	.10						
R-259	MDA	.10						
R-260	MDA	.08						
R-261	MDA	.08						
R-262	MDA	.08						
R-263	MDA	.10						
R-264	MDA	.12						
R-265	MDA	.10						
R-266	MDA	.10						
R-267	MDA	.12						
R-268	MDA	.12						
R-269	MDA	.08						
R-270	MDA	.10						

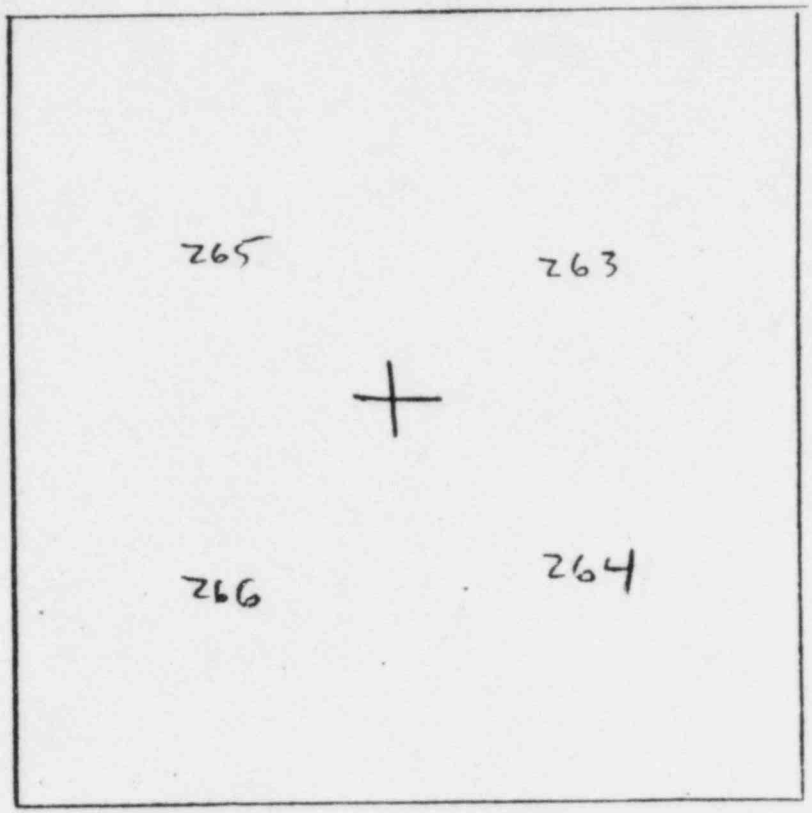
Surveyed by: [signature]

FLOOR OF AREA N

NORTH WALL AREA R



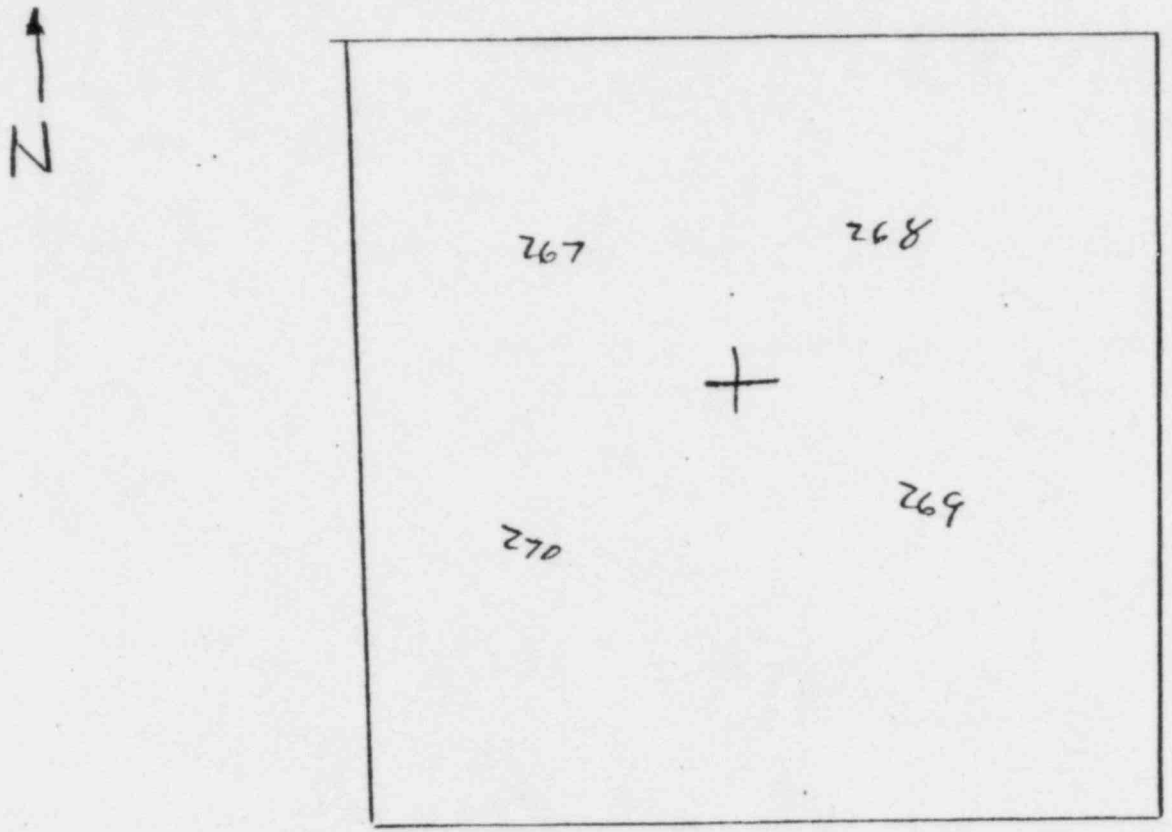
EAST WALL OF AREA R



SOUTH WALL AREA 12

WEST WALL AREA 2

CEILING OF AREA R



Work History of Area S

1. Informational Survey.
2. Remove hot spots from floor.
3. Perform close out survey.

RADIOLOGICAL SURVEY FORM

CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-80 Sheet 1 of 1

Area 5

Loose Surface Activity

Meter RMS 2 Ser.# 651
Cal. Date 0-2 Source Check 206 cpm
Background 252 cpm Corr.Factor 13.15 ~~dpm/cpm~~
Probe SPA-3

Fixed Activity

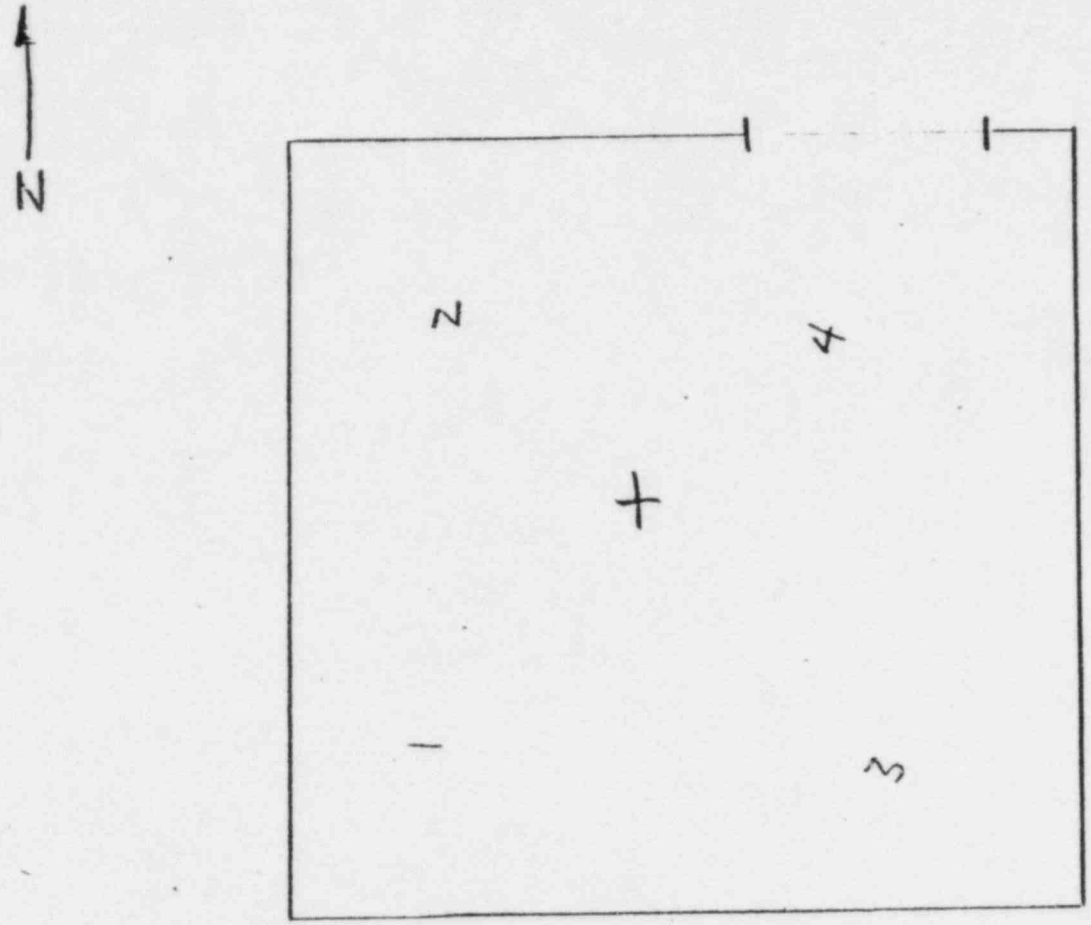
Meter E120 Ser.# 5540
Cal. Date 0-1 Source Ck. ok
Background .10 Probe HP210

MDA = 450 dpm

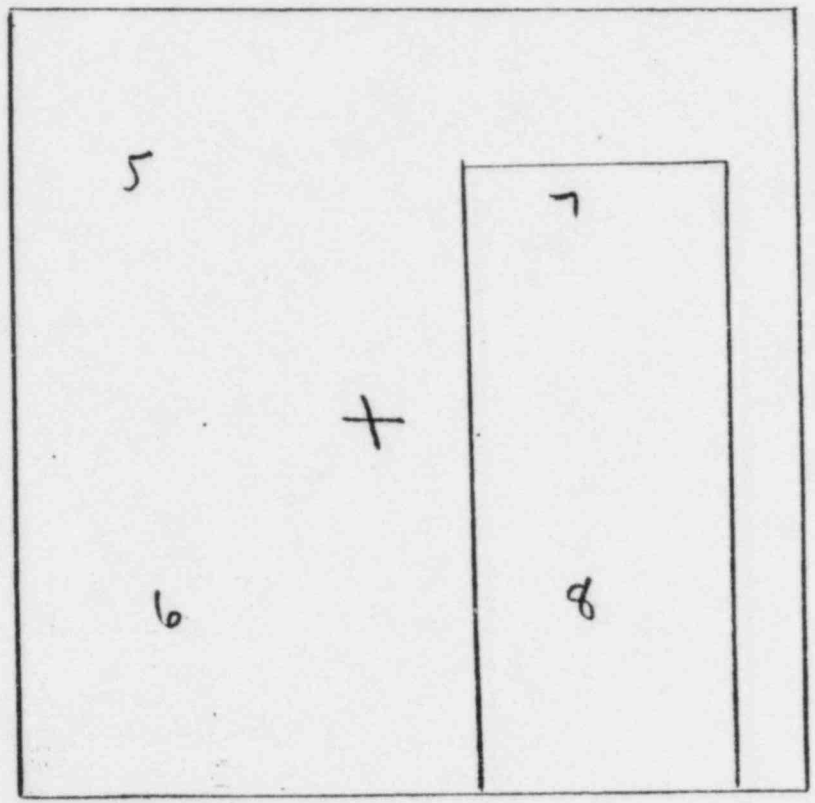
Grid Location	Loose Activ. ~~DPM/100cm²~~	Fixed Activ. MR/HR	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
S-1	MDA	.20						
S-2	MDA	.20						
S-3	MDA	.20						
S-4	MDA							
S-5	MDA	.18						
S-6	MDA	.16						
S-7	MDA	.16						
S-8	MDA	.12						
S-9	MDA	.12						
S-10	MDA	.15						
S-11	MDA	.12						
S-12	MDA	.12						
S-13	MDA	.12						
S-14	MDA	.10						
S-15	MDA	.10						
S-16	MDA	.12						
S-17	MDA	.12						
S-18	MDA	.10						
S-19	MDA	.15						
S-20	MDA	.12						
S-21	MDA	.15						
S-22	MDA	.15						
S-23	MDA	.15						
S-24	MDA	.15						

Surveyed by: [signature]

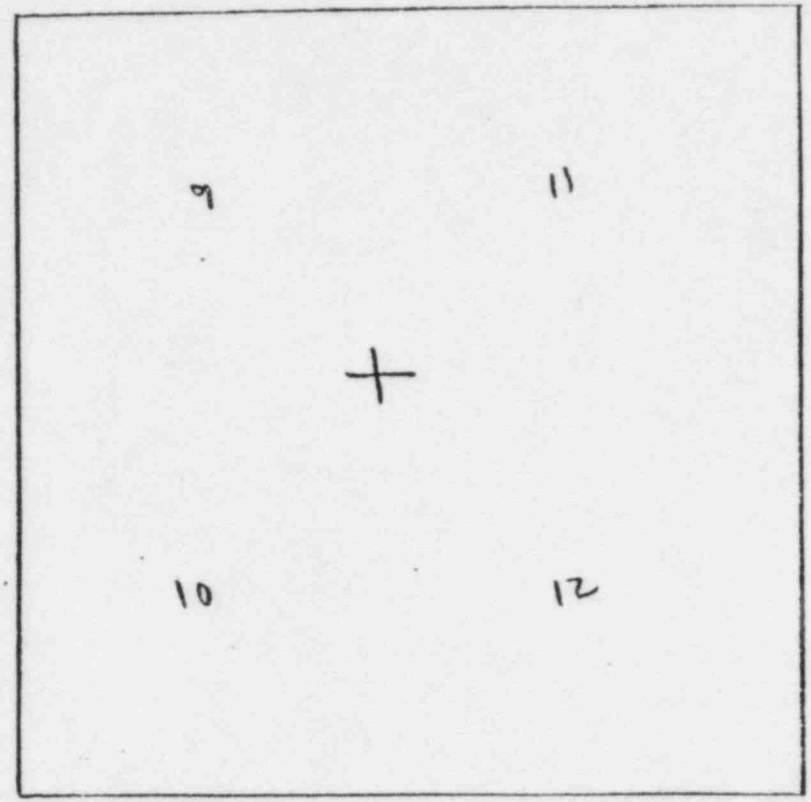
FLOOR OF AREA S



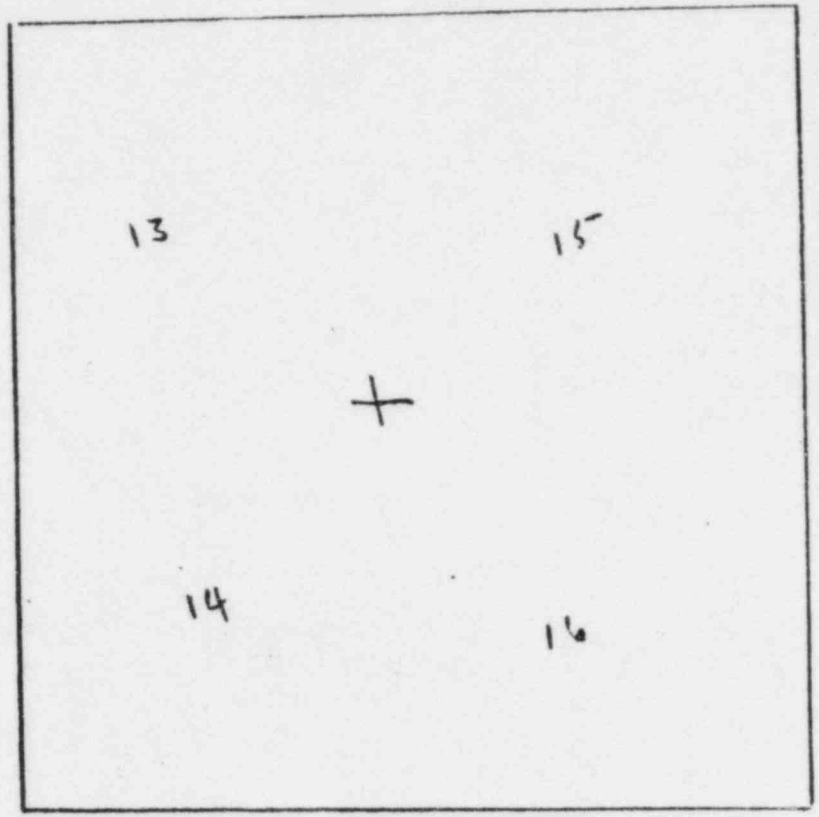
NORTH WALL OF AREAS



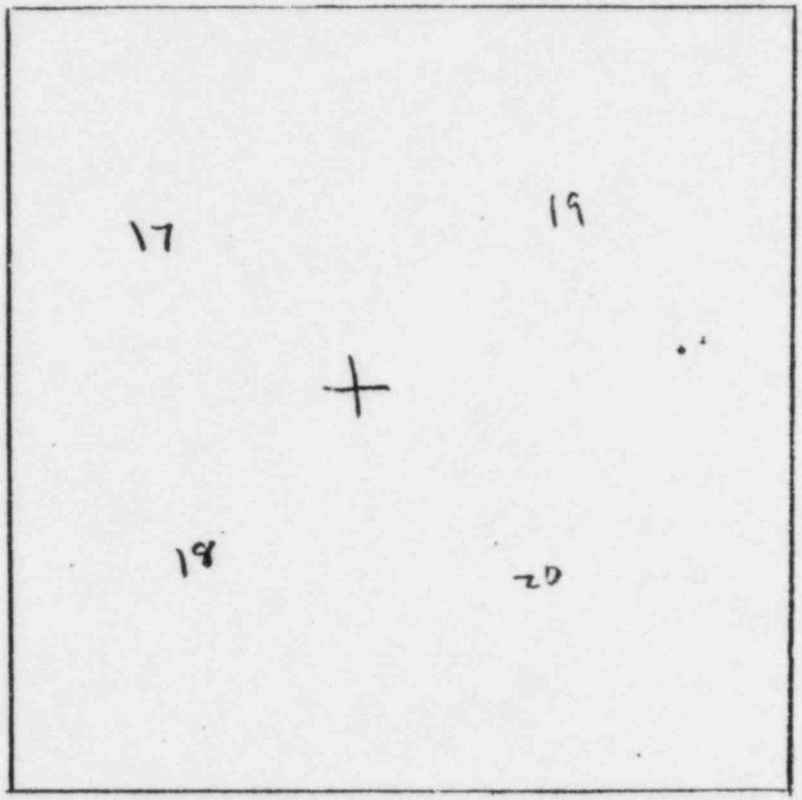
EAST WALL OF AREA 5



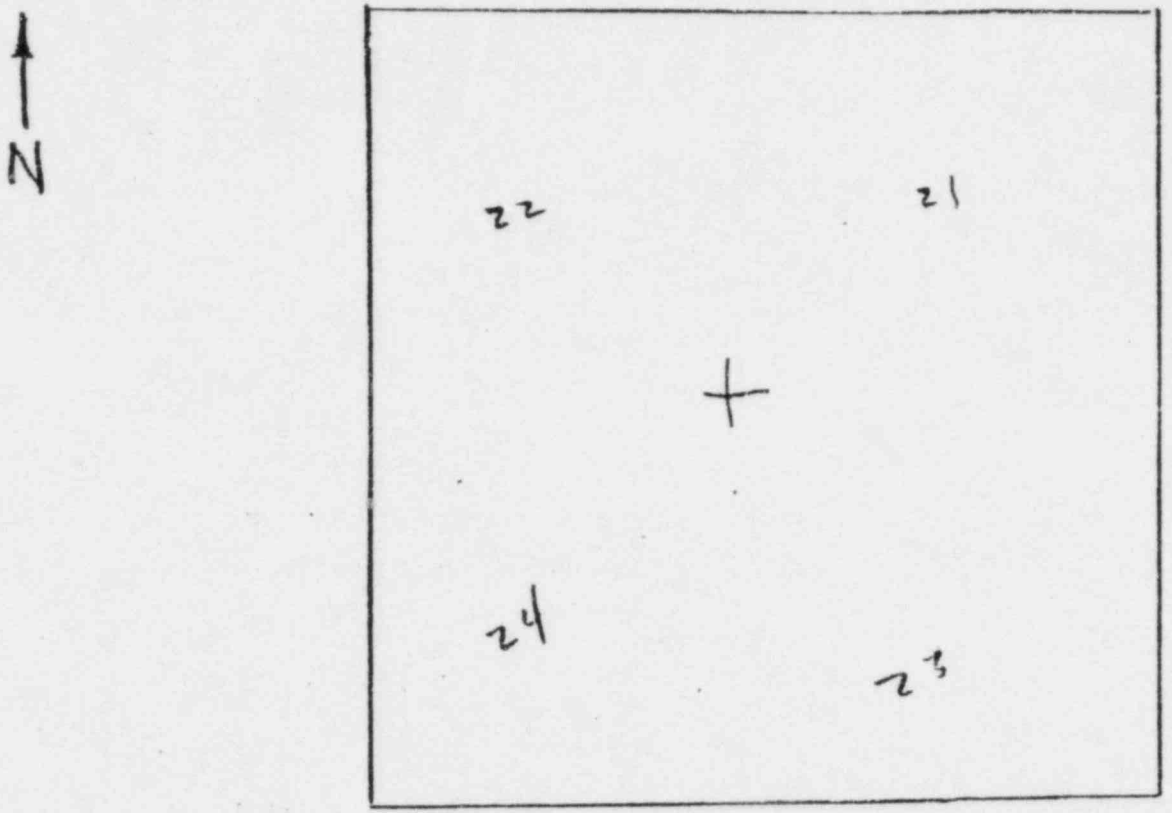
SOUTH WALL OF AREA 5



WEST WALL OF AREA 5



CEILING OF AREA 5



Work History of Area T

1. Remove grating cover.
2. Informational survey.
3. Complete wipe down.
4. Remove piping.
5. Scale off concrete.
6. Perform close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-80 Sheet 1 of 1
Area T

Loose Surface Activity

Meter MS-2 Ser.# 681
Cal. Date ok Source Check 206 cpm
Background 252 Corr.Factor 1215 dpm/cpm
Probe SPA-3

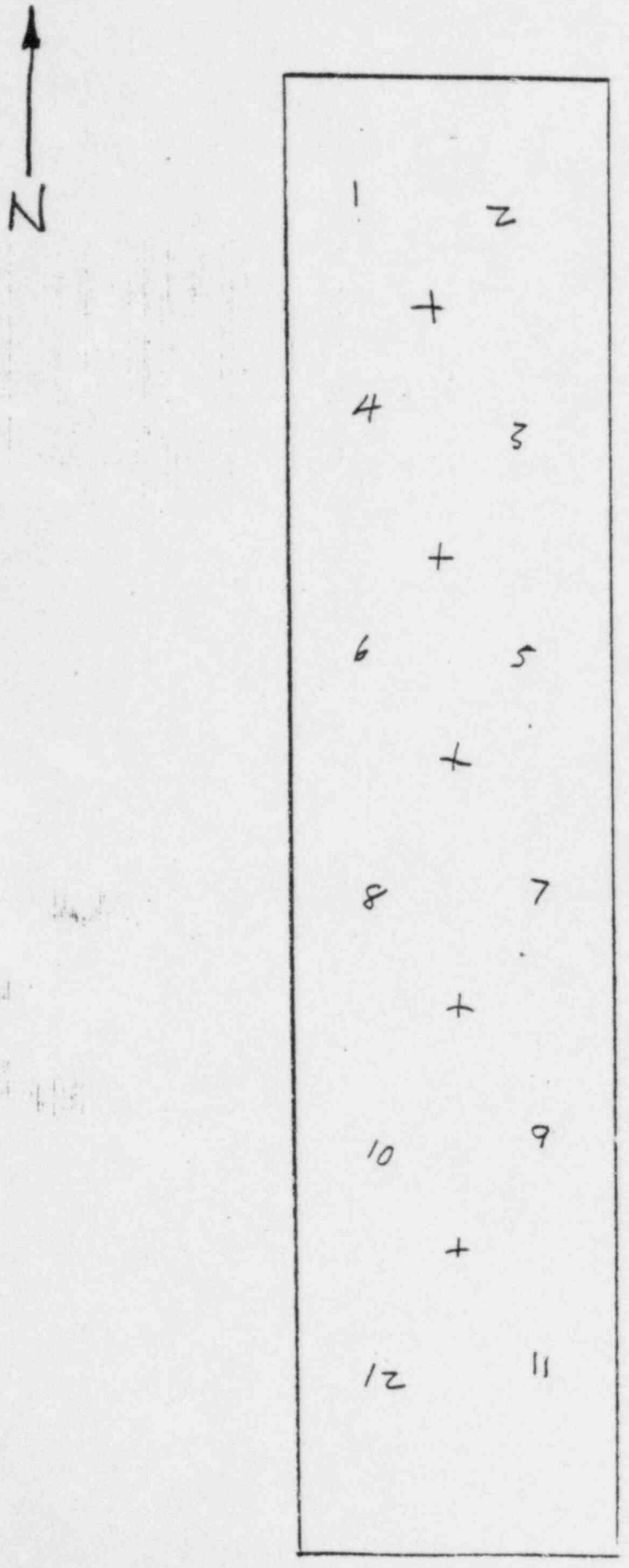
Fixed Activity

Meter E120 Ser.# 5540
Cal. Date ok Source Ck. ok
Background .08 Probe HP210

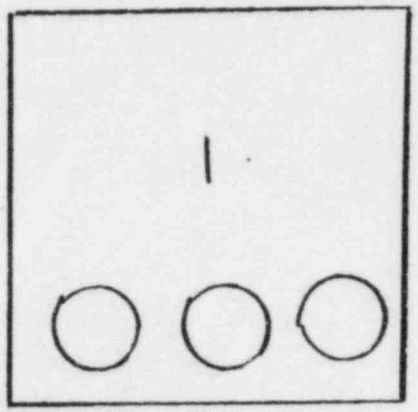
MDA = 450 dpm

Grid Location	Loose Activ. DPM/Swipe	Fixed Activ. MR/hr	Grid Location	Loose Activ.	Fixed Activ.	Grid Location	Loose Activ.	Fixed Activ.
T-1	MDA	.08						
T-2	MDA	.12						
T-3	MDA	.06						
T-4	MDA	.06						
T-5	MDA	.12						
T-6	MDA	.10						
T-7	MDA	.06						
T-8	MDA	.06						
T-9	MDA	.06						
T-10	MDA	.16						
T-11	MDA	.12						
T-12	MDA	.18						

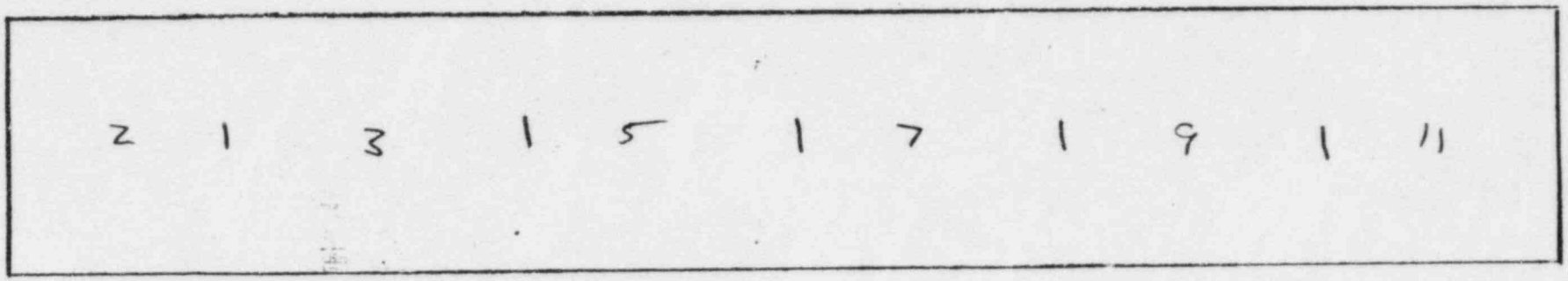
FLOOR OF AREA T (TRENCH)



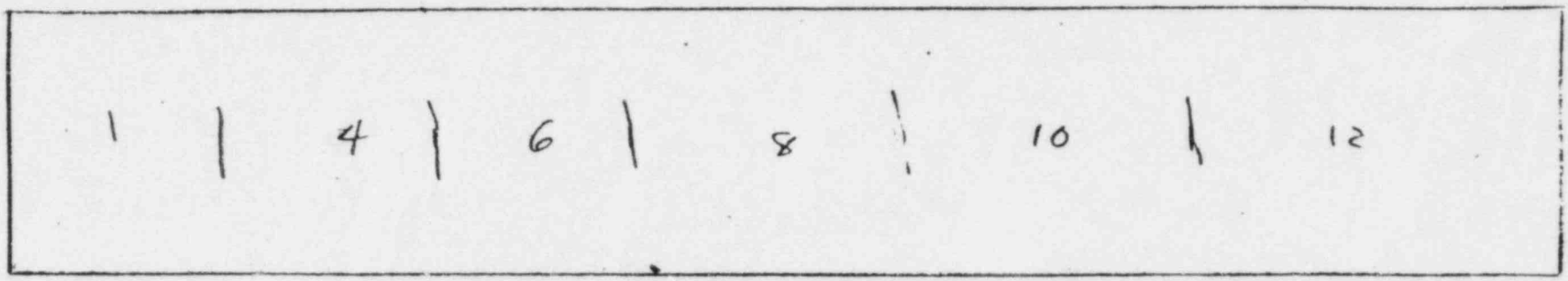
NORTH WALL OF AREA T



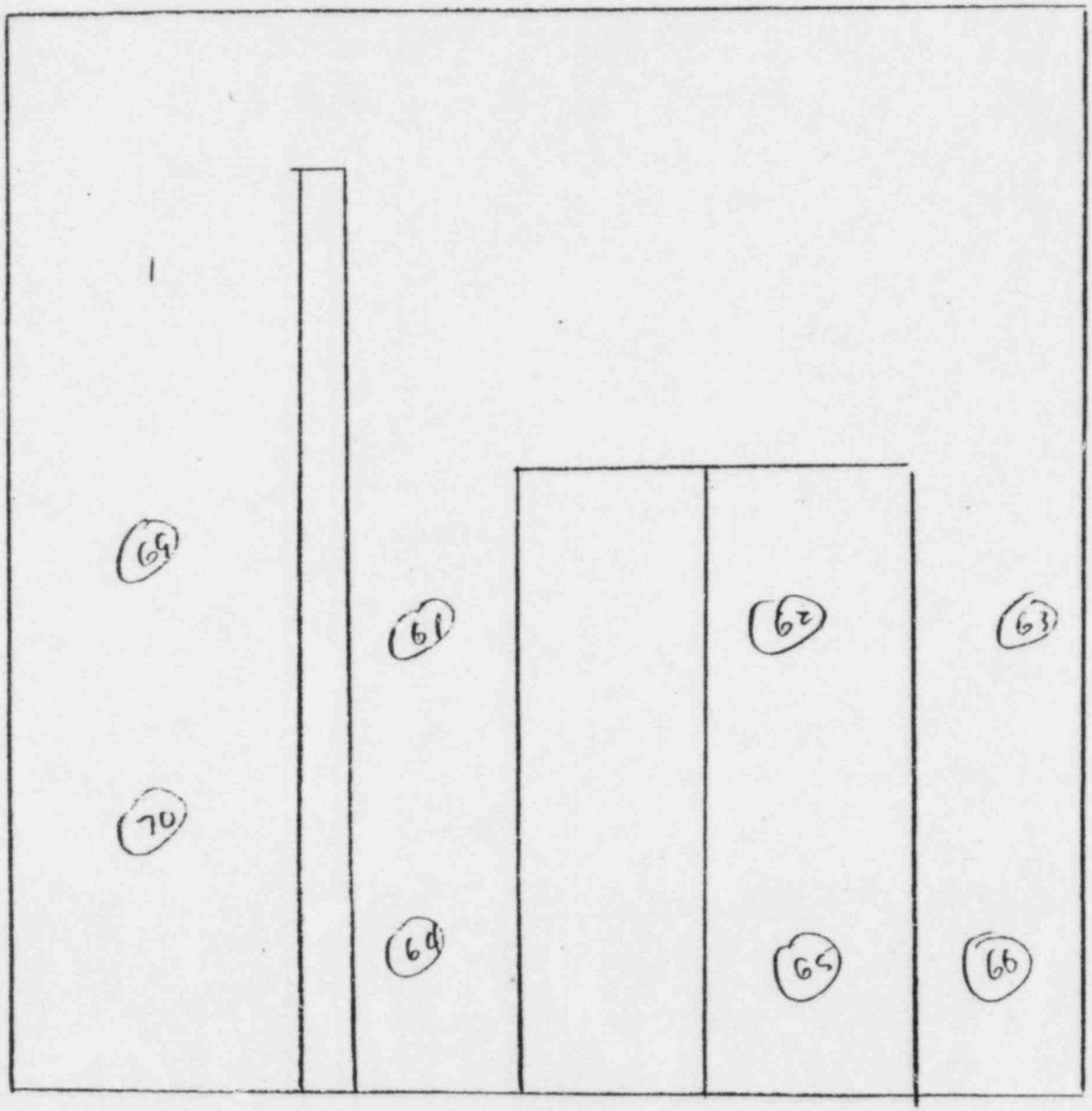
EAST WALL OF AREA T



WEST WALL OF AREA T



WEST WALL OF AREA V



Work History of Area V

1. Informational Survey.
2. Area used as counting room from Nov. to March.
3. Performed close out survey.

RADIOLOGICAL SURVEY FORM
CLOSE OUT SURVEY OF ISOMEDIX, INC.

Date 3-24-80 Sheet 1 of 1
Area V

Loose Surface Activity

Meter MS-2 Ser.# 651
Cal. Date [illegible] Source Check 2200 cpm
Background 232 Corr.Factor 12.15 cpm
Probe SPA-3

Fixed Activity

Meter E120 Ser.# 5010
Cal. Date 8/1 Source Ck. ok
Background .10 Probe HP 210

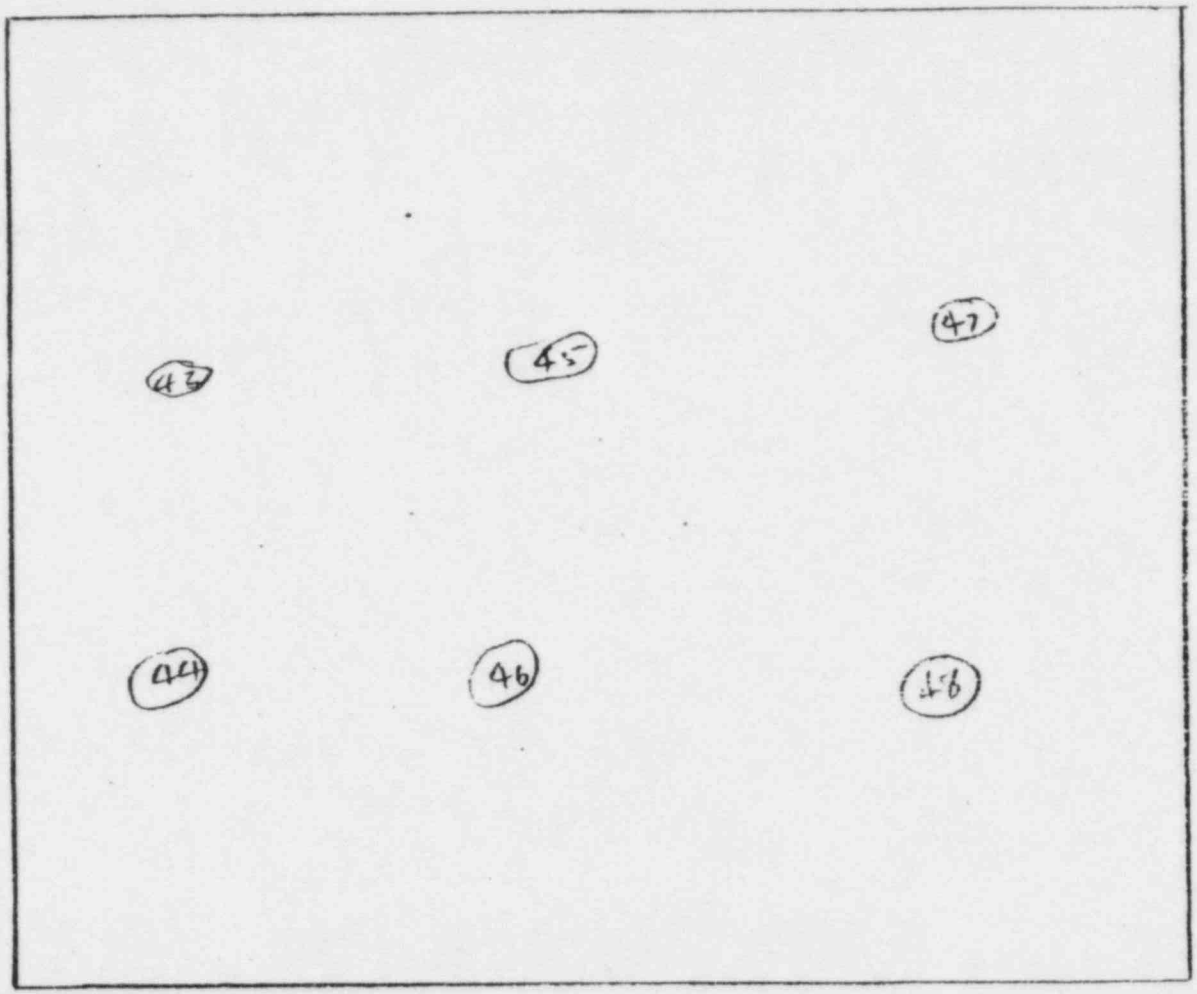
MDA = 450 dpm

Grid Location	Loose Activ. DPM/100cm²	Fixed Activ. MR/HR
V-1	MDA	.14
V-2	MDA	.14
V-3	MDA	.16
V-4	MDA	.11
V-5	MDA	.12
V-6	MDA	.14
V-7	MDA	.12
V-8	MDA	.14
V-9	MDA	.12
V-10	MDA	.10
V-11	MDA	.11
V-12	MDA	.16
V-13	MDA	.14
V-14	MDA	.14
V-15	MDA	.14
V-16	MDA	.10
V-17	MDA	.08
V-18	MDA	.08
V-19	MDA	.10
V-20	MDA	.12
V-21	MDA	.12
V-22	MDA	.12
V-23	MDA	.12
V-24	MDA	.12
V-25	MDA	.10
V-26	MDA	.10
V-27	MDA	.11
V-28	MDA	.12
V-29	MDA	.14
V-30	MDA	.14
V-31	MDA	.12
V-32	MDA	.10
V-33	MDA	.12
V-34	MDA	.12
V-35	MDA	.13
V-36	MDA	.14
V-37	MDA	.14
V-38	MDA	.15
V-39	MDA	.14
V-40	MDA	.14
V-41	MDA	.16
V-42	MDA	.12
V-43	MDA	.12
V-44	MDA	.12
V-45	MDA	.10
V-46	MDA	.10
V-47	MDA	.10
V-48	MDA	.12
V-49	MDA	.10
V-50	MDA	.10
V-51	MDA	.12
V-52	MDA	.12
V-53	MDA	.12
V-54	MDA	.10
V-55	MDA	.10
V-56	MDA	.14
V-57	MDA	.12
V-58	MDA	.12
V-59	MDA	.14
V-60	MDA	.12
V-61	MDA	.12
V-62	MDA	.14
V-63	MDA	.14
V-64	MDA	.12
V-65	MDA	.12
V-66	MDA	.12
V-67	MDA	.12
V-68	MDA	.14
V-69	MDA	.10
V-70	MDA	.10

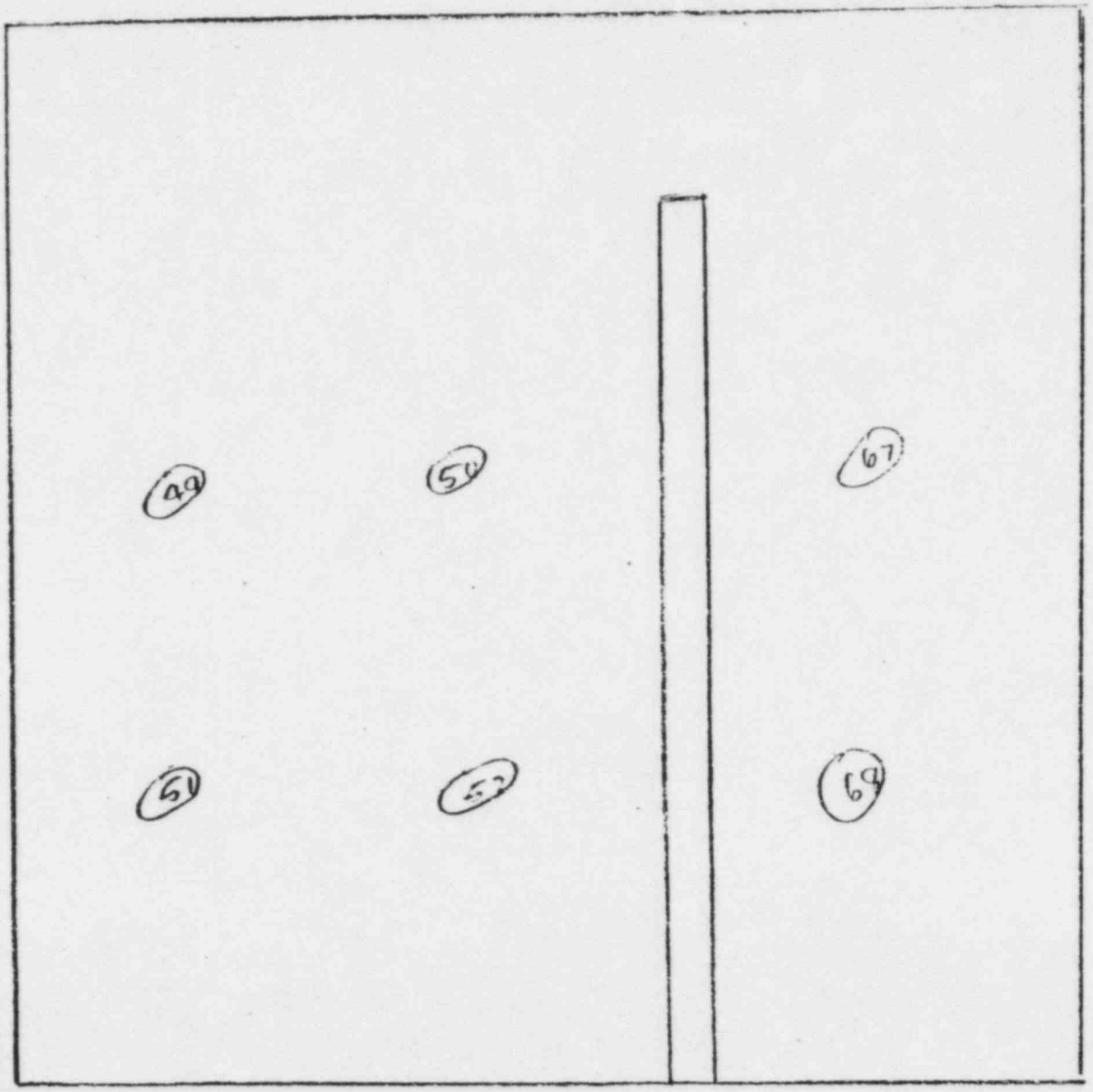
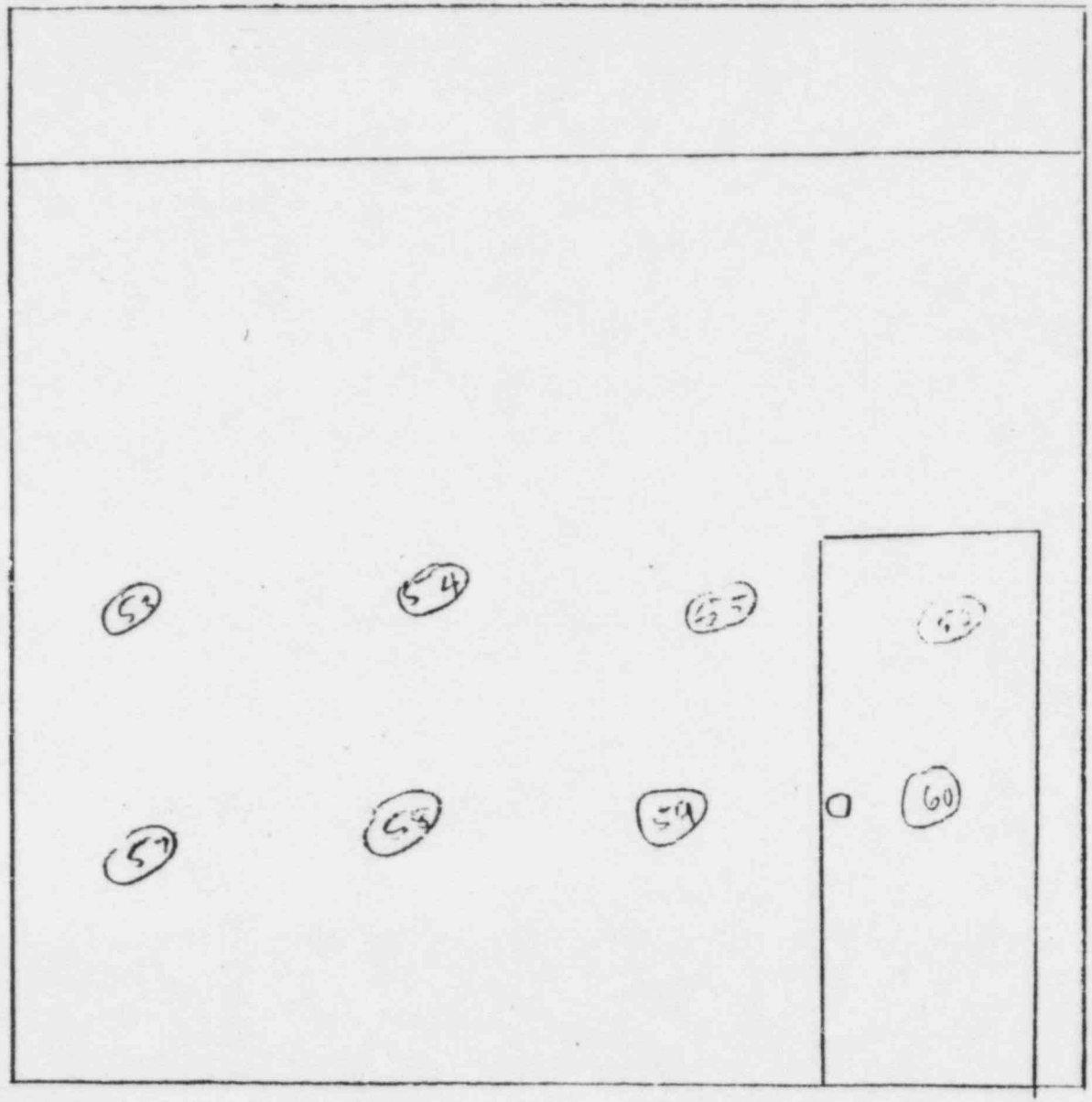
Surveyed by: [signature]

FLOOR OF AREA V

NORTH WALL OF AREA V



EAST WALL OF AREA V



SOUTH WALL OF AREA V