ARCHIVE PLANT DRAWINGS (CD)

Process Building C-331

F1-1-M_0001_0006_U-024148.PDF
F1-1-S_0001_0003_U-024721.PDF

Process Building C-333

G1-16-A_0001_0002_U-025591.PDF
G1-1-M_0001_0002_U-026674.PDF
G1-2-M_0001_0004_U-026675.PDF
G1-3-M_0001_0005_U-026676.PDF
G1-4-M_0001_0006_U-026677.PDF
G1-5-M_0001_0005_U-026678.PDF
G1-6-M_0001_0005_U-026679.PDF
G1-7-M_0001_0004_U-026682.PDF
G1-1-S_0001_0004_U-026984.PDF
G1-2-S_0001_0005_U-026985.PDF

Process Building C-335

J1-1-M_0001_0008_U-027793.PDF
J1-1-S_0001_0004_U-079632.PDF

Process Building C-337

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L1-2-M_0001_0002_U-029523.PDF
L1-3-M_0001_0002_U-029524.PDF
L1-4-M_0001_0005_U-091529.PDF
L1-5-M_0001_0003_U-009568.PDF
L1-6-M_0001_0002_U-029526.PDF
L1-7-M_0001_0002_U-029527.PDF
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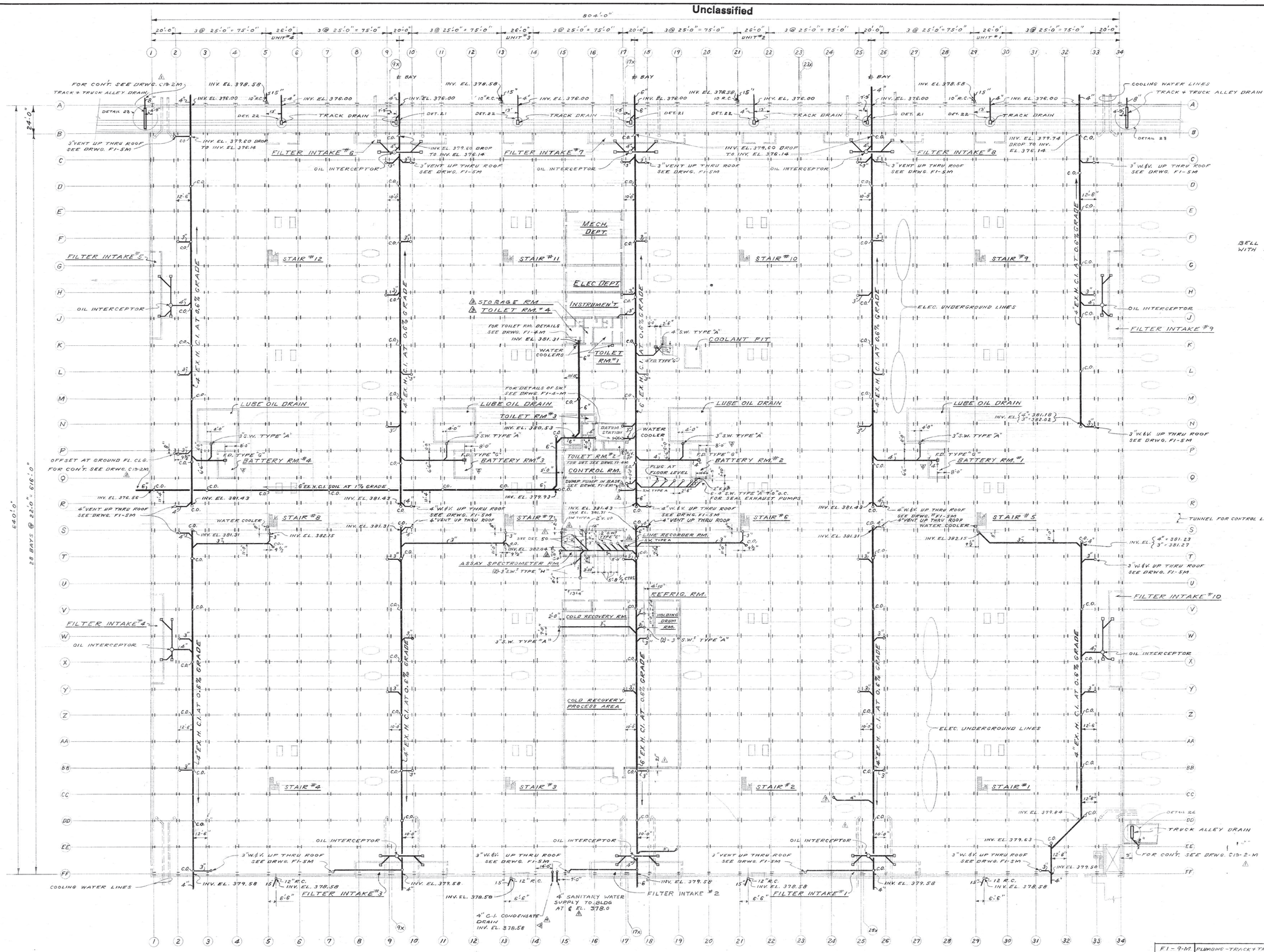
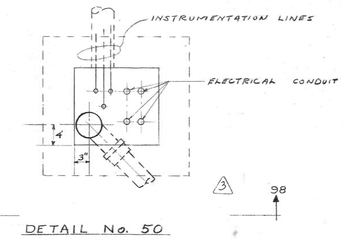
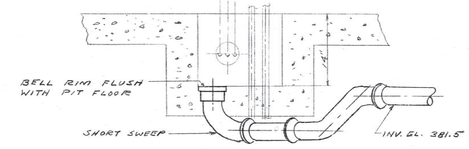
L1-2-S_0001_0002_U-029047.PDF

Unclassified





DETAIL No. 50
DRAIN IN ASSAY SPEC. ROOM
SCALE 1"=1'-0"



SECTION No. 98
SCALE 1"=1'-0"

LEGEND

———	CAST IRON DRAIN LINE
———	COLD SANITARY WATER
- - -	HOT SANITARY WATER

C.O.	CLEANOUT
C.S.W.	COLD SANITARY WATER
C.I.	CAST IRON
F.D.	FLOOR DRAIN
H.S.W.	HOT SANITARY WATER
LAV.	LAVATORY
S.W.	SIGHT WASTE
S.H.	SHOWER
S.S.	SERVICE SINK
UR.	URINAL
W.	WASTE
W.C.	WATER CLOSET

NOTE -
ALL UNDERGROUND DRAIN LINES TO BE CAST IRON TO 5'-0" OUTSIDE OF BLDG.
FOR DETAILS No. 21 THRU 26 SEE DRWG. No. FI-9-M

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REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
	7-20-53	AS BUILT	RSP	7-20-53
5		378.58 WAS 379.58		
4	10-19-51	4 SIGHT WASTES ADDED	LM	10-30-51
3	9-19-51	DET 50 & SECT 98 MOVED FROM DWG FI-6-M TO FI-1-M. SUMP DISCH & DRAIN RELOCATED	LM	9-24-51
2	8-24-51	DRAIN REVISED - C.O. ADDED	LM	7-8-51
1	6-12-51	REF. DWG C13-2-M WAS C3-2-M. B1 - DIMENSION ADDED. VENT, SIGHT WASTES, AND WATER LINE RELOCATED. DRAIN LINE ADDED	LM	7-9-51
	3-22-51	CONSTRUCTION	RSP	3-22-51
	3-13-51	APPROVAL	LM	3-21-51
	2-24-51	PURCHASE OF MATERIAL	LM	

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
GROUND FLOOR PLAN - UNDERGROUND SERVICES

FI-1-M	PLUMBING - TRACK & TRUCK ALLEY DRAINS
FI-8-M	" - DRAINAGE FOR FILTER RMS.
FI-7-M	" - PROFILES OF DRAIN LINES
FI-6-M	" - MISC. DETAILS
FI-5-M	" - VENTS
FI-4-M	" - TOILET RM. DETAILS
FI-3-M	" - GROUND FLOOR PLAN SANITARY WATER
FI-2-M	" - CELL FLOOR PLAN WASTE & VENT LINES
FI-1-M	" - GROUND FLOOR PLAN UNDERGROUND SERVICES
C5-2-M & 3-M	MECHANICAL - OUTSIDE SERVICE LINES
FI-1B-M THRU FI-1J2-M	MECHANICAL - HEATING & VENT.
FI-9B-M THRU FI-9F-M	MECHANICAL - COOLING WATER
FI-1B1-E THRU FI-1B7-E	ELECTRICAL
FI-1B2-S THRU FI-1B2-S	STRUCTURAL
FI-1-S THRU FI-2-S	STRUCTURAL
FI-1B THRU FI-5-A	ARCHITECTURAL
SHEET NO.	TITLE
REFERENCE DRAWINGS	

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
2-25-51	R.A. WALKER 3-20-51	R.N. BROWN 3-21-51
ARCHITECT ENGINEER	CARBIDE CARBON CHEM. DIV.	A.E.C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
D.H. FISCHER	1-15-51	E.E. Sturgeson	3/12/51	50-141
IN CHARGE	DATE	CHIEF	DATE	
	2-24-51		7/20/53	
PROJECT "C" KENTUCKY AREA	BUILDING C-331		SHEET FI-1-M	

Unclassified

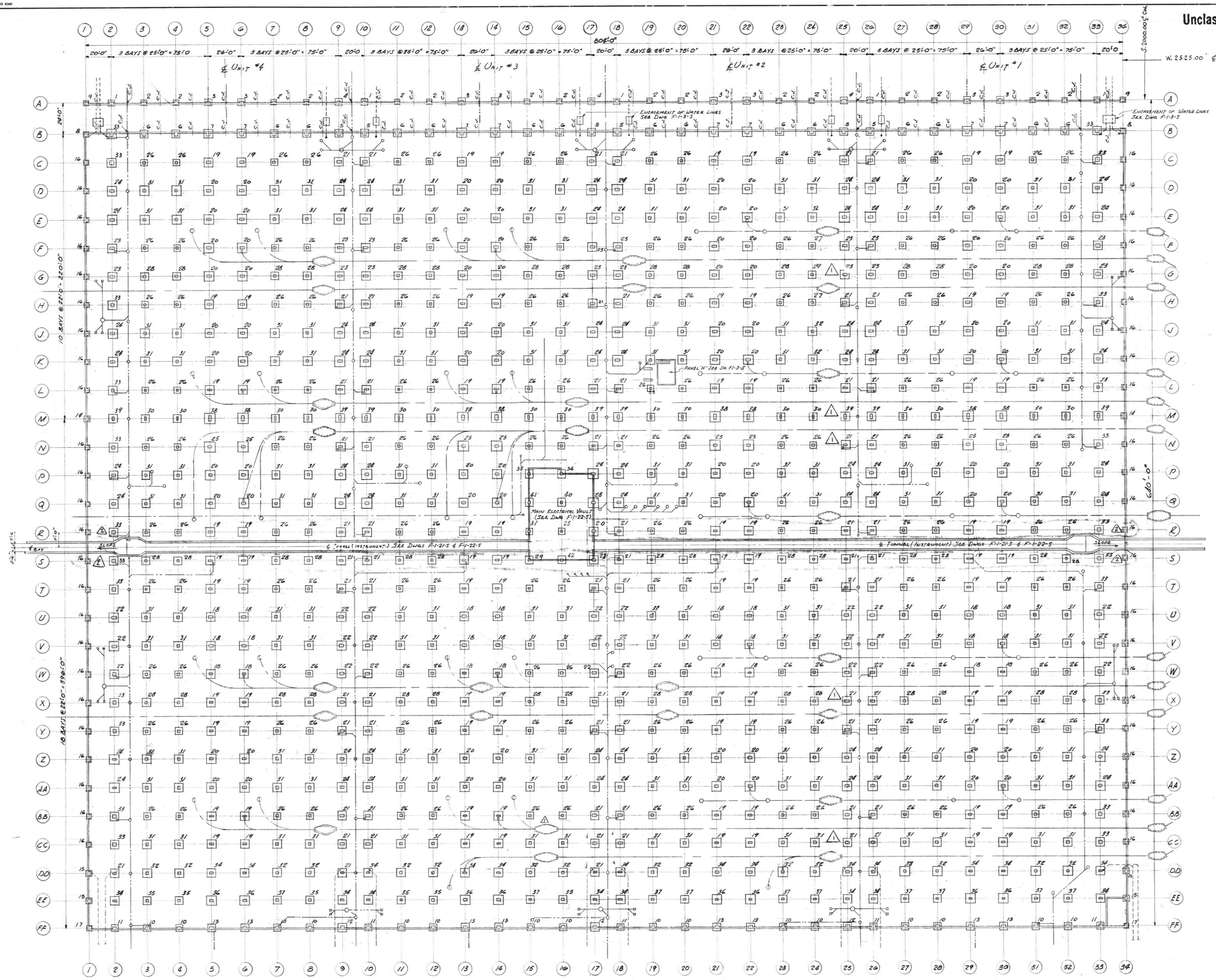
DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEWER: DETERMINATION: 2 INSERT NUMBERS:
Authority: DADD 1. CLASSIFICATION RETAINED
Date: 2. CLASSIFICATION CHANGED TO: U
3. CONTAINS NO DOE CLASSIFIED INFORMATION
2ND REVIEW: (Name) 4. COORDINATE WITH:
AUTHORITY: ADD 5. CLASSIFICATION CANCELLED
DATE: 6. CLASSIFIED INFORMATION BRACKETED
7. OTHER (SPECIFY)

CLASSIFICATION CHANGED TO
(Insert Appropriate Classification Level and Category, Either)
By Authority of DOE LTR. 9/21/87
(Authority for Change in Classification) (Date)
By Gary Wilson, RPC 11/02/87
(Signature of Person Making Change) (Title) (Date)
Verified by: 1/22/88
(Signature of Person Verifying Change) (Date)
Marvin Marietta, PORP

GROUND FLOOR ~ UNDERGROUND SERVICE PLAN
FIN. GROUND FLOOR EL. 383'-0"
SCALE 1"=32'-0"

Unclassified

Unclassified



FOUNDATION PLAN

SCALE: 1/16" = 1'-0"

N

GENERAL NOTES

Before any concrete is poured in any area, check all Arch. Mech. and Elect. drawings as well as all Process opening drawings for openings, ducts, sleeves, curb angles etc., which must be provided before work is begun. The concrete contractor is responsible for the placing of all bolts, sleeves, and other built-in items occuring in the work, and shall cooperate with all trades so that such work is accurately placed in the forms.

Unless otherwise noted, all concrete for this job should have a design strength of 2500 #/□" in 28 days.

All exterior foundation walls & footings to extend 3'-0" minimum below finish grade unless otherwise noted.

For location of bench marks see Site drawings.

All Key sizes in wall construction joints shall be as follows unless otherwise noted:

2×3 for 8 & 10" walls
2×4 for 12" walls

Bend bars a minimum of 2'-6" around corners.

Lap bars 40 diameters

Unless otherwise shown, provide 2-½"ϕ diagonal bars, each face, at each corner of openings in basement slab and foundation walls.

See details for corner bars for openings in cell floor slab.

Chamfer all exposed corners of concrete construction 1×1 except where concrete abuts masonry.

All control joints in walls to be on ℄ of bay as indicated on foundation plan & sections.

Supported slabs & equipment foundations, misc. pads, pits, and manhole walls, max. size of aggregate is 1½"

Slabs on ground max. size of aggregate is 1½"

Footings, pier, grade walls max. size of aggregate is 1½".

All footings to extend a minimum of 4'-0" below Elev. 383'-0"

Whenever a soil bearing value of 4000 #/□' does not exist at a given elevation for bottom of footing, the footing is to be continued down until such bearing value is attained.

A 12" compacted working surface consisting of a natural mixture of gravel, sand, & binder such as the Lafayette stratum existing on or near the site shall be provided under all slabs on ground. Material and compaction shall meet the approval of the Arch.-Engr.

Backfill over footings to be approved fill material consisting of suitable materials obtained during excavation or new material such as the Lafayette deposit. Compaction to be 95% of Proctor density. See Specs.

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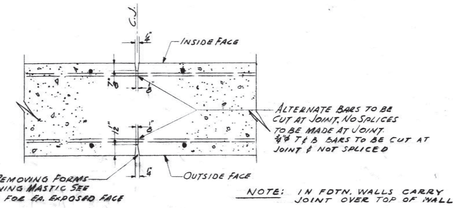
Unclassified

CLASSIFICATION CHANGED TO Unclassified
Review Authority: Classification Level and Category (Date)
By Authority of 3/10/97 (Title) Doc Ctl
Authority for Change of Classification (Date)
By (Signature of Person Making Change) (Title) (Date) 20-93
Verified by 1/20/99
(Signature of Person Verifying Change) (Date)
Manetta, PGDP



NOTE: IN FDTN. WALLS CARRY JOINT OVER TOP OF WALL

DETAIL OF CONTROL JOINTS C.J.

LEGEND

Numbers adjacent to footings in plan designate brackets in footing schedule, Drg. F-1-4-5
ELECTRIC MANHOLES (For location see Elect. Drgs.)
For Details, see Dwg. F-1-3-5.
ELECT. CONDUITS (See Elect. Dwg's.)
WATER LINES (See mech. Dwg's.)
DRAIN LINES (See Mech. Dwg's.)

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEWER (NAME)
AUTHORITY DECL ADD: DECL ADD
DATE
DETERMINATION (CIRCLE NUMBERS)
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO U
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. CONFORMS WITH
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION BRACKETED
7. OTHER (SPECIFY)
2ND REVIEWER (NAME)
AUTHORITY DECL ADD
DATE

UNCLASSIFIED

Unclassified

OFFICIAL USE ONLY

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
3	7-2-53	AS BUILT		
2	4-3-51	FOOTINGS ON ⓪ & ⑦ LINES LOWERED		
REV. 1	4-2-51	MANHOLES MOVED, MANHOLES REMOVED; FOOTINGS MODIFIED		4-5-51
	2-3-51	CONSTRUCTION		
	1-23-51	APPROVAL		2-3-51

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE

FOUNDATION PLAN

SHEET NO.	TITLE
F1-4-5	FOOTING SCHEDULE
F1-3-5	MISC. SECTIONS, DETAILS & EQUIP. FOUNDATIONS
F1-2-5	FOUNDATION DETAILS & SECTIONS

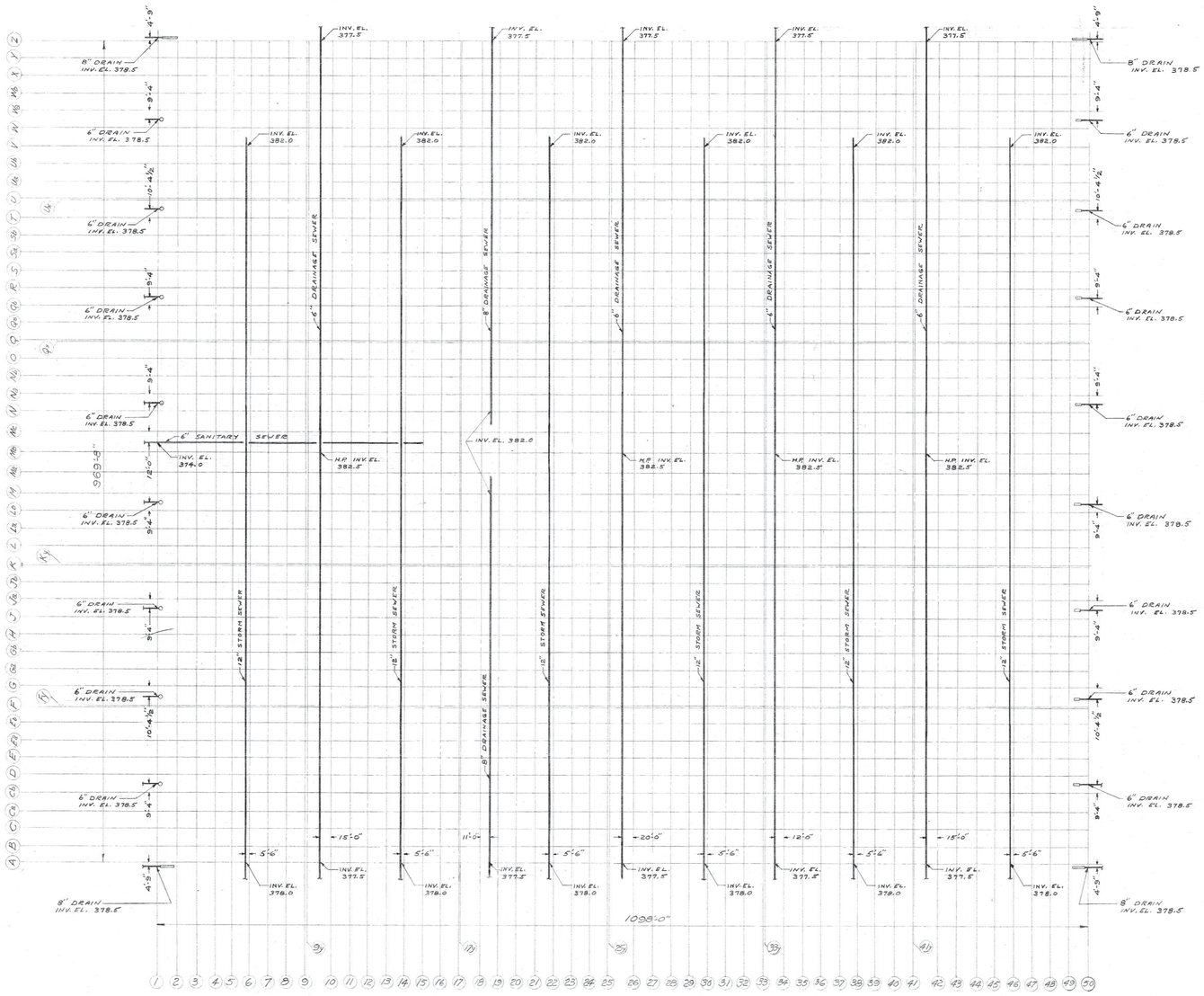
REFERENCE DRAWINGS

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
1-23-51 ARCHITECT ENGINEER	2-3-51 CARBIDE CARBON CHEM. DIV.	2-3-51 A.E.C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
E.C. Cicotte / E.C. Knapp Jr.		R. Dalyard	1-23-51	50-141
IN CHARGE: A. SPIRO	DATE	CHIEF: C.A. GIFFELS	DATE	

PROJECT	BUILDING	SHEET
"C" Kentucky Area	C 331	F1-1-S

Unclassified



GROUND FLOOR PLAN
SCALE 1/64" = 1'-0"
GROUND FLOOR EL. 384.0

SECTION INDEX

No.	ON DWG. No.	DESCRIPTION
1	G1-14-M	SUMP PUMP, VENTS, & LINE RECORDER S.W.
2	G1-14-M	SUMP PUMP, VENT, & PIT DRAINS
3	G1-14-M	SUMP VENT & MAIN VENT ARRANGEMENT
4	G1-14-M	SUMP VENT & MAIN VENT ARRANGEMENT
5	G1-15-M	TRENCH DRAIN & DRIVE WAY DRAIN
6	G1-15-M	TRACK & TRENCH DRAIN
7	G1-15-M	DRIVEWAY DRAIN
8	G1-15-M	TRACK DRAIN
9	G1-15-M	TRENCH DRAIN
10	G1-15-M	TRACK DRAIN
11	G1-19-M	RAIN CONDUCTOR BASE
12	G1-16-M	TOILET ROOM No. 1
13	G1-16-M	TOILET ROOM No. 2 & 3
14	G1-22-M	C.S.W. P.R.V. STATION
15	G1-22-M	C.S.W. ANCHOR
16	G1-22-M	DRINKING FOUNTAIN C.S.W. CONNECTION
17	G1-19-M	RAIN CONDUCTOR BASE
18	G1-22-M	BRANCH CONNECTION
19	G1-22-M	HOSE BIBB IN BATTERY ROOM
20	G1-18-M	OIL INTERCEPTOR

PLUMBING LEGEND

		DRAIN LINE
		VENT LINE
		COLD SANITARY WATER C.S.W.
		HOT SANITARY WATER H.S.W.
	CO	CLEANOUT
	FD	FLOOR DRAIN
	DF	ELECTRIC WATER COOLER
	SH	SHOWER
	SS	SERVICE SINK
	UR	URINAL
	LAV	LAVATORY
	WC	WATER CLOSET
	HWT	HOT WATER TANK
	GV	GATE VALVE
	CV	CHECK VALVE
	V	VENT
	W	WASTE
	DWG	DRAWING
	SW	SIGHT WASTE
	HP	HIGH POINT
	DFW	DRINKING FOUNTAIN WASTE

PLUMBING BILLS OF MATERIAL

NUMBER	ITEM
M-106	DUPLEX SUMP PUMP
M-107	STORAGE WATER HEATER

GENERAL NOTES

FOR CONTINUATION OF ALL UNDERGROUND WATER & DRAIN LINES SEE DWG No. C19-2-M

DRAWING INDEX

NUMBER	TITLE	
G1-1-M	KEY PLAN	
G1-2-M	UNDERGROUND DRAINAGE	
G1-3-M	UNDERGROUND DRAINAGE	
G1-4-M	UNDERGROUND DRAINAGE	
G1-5-M	UNDERGROUND DRAINAGE	
G1-6-M	UNDERGROUND DRAINAGE	
G1-7-M	UNDERGROUND DRAINAGE	
G1-8-M	SANITARY WATER SYSTEM	
G1-9-M	SANITARY WATER SYSTEM	
G1-10-M	WATER, VENT, & DRAIN PIPING	(CELL FLOOR PLAN)
G1-11-M	WATER, VENT, & DRAIN PIPING	(CELL FLOOR PLAN)
G1-12-M	VENTS & RAIN CONDUCTORS	(ROOF PLAN)
G1-13-M	VENTS & RAIN CONDUCTORS	(ROOF PLAN)
G1-14-M	LINE RECORDER & ASSAY SPECTROMETER AREA	
G1-15-M	TRACK & TRUCK ALLEY DRAINAGE DETAILS	
G1-16-M	TOILET ROOM DETAILS	
G1-17-M	TOILET ROOM TYPICAL DETAILS	
G1-18-M	MISCELLANEOUS TYPICAL DETAILS	
G1-19-M	RAIN CONDUCTOR TYPICAL DETAILS	
G1-20-M	RAIN CONDUCTOR RISER DETAILS	
G1-21-M	VENT RISER DETAILS	
G1-22-M	SANITARY WATER SYSTEM DETAILS & SECTIONS	
G1-23-M	SIGHT WASTE DRAINS RISER DETAILS	
G1-24-M	DRAINS & VENTS RISER DETAILS	
G1-25-M	DRAINS & VENTS RISER DETAILS	
G1-26-M	DRAINS & VENTS RISER DETAILS	

DETAIL INDEX

No.	ON DWG. No.	DESCRIPTION
1	G1-16-M	TOILET ROOM No. 1 DRAIN & VENT PIPING
2	G1-16-M	TOILET ROOMS No. 2 & 3 DRAIN & VENT PIPING
3	G1-14-M	LINE RECORDER & ASSAY SPECTROMETER AREAS
4	G1-15-M	TRENCH & DRIVEWAY DRAINS
5	G1-15-M	TRACK & TRENCH DRAINS
6	G1-16-M	TOILET ROOM No. 1 SANITARY WATER PIPING
7	G1-16-M	TOILET ROOM No. 2 & 3 SANITARY WATER PIPING
8	G1-22-M	SANITARY WATER PIPING ANCHOR
9	G1-22-M	BATTERY ROOM WATER SUPPLY

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEWER: (Name) Authority: ADC Date: 3-5-98
2ND REVIEWER: (Name) AUTHORITY: ADD DATE:
DETERMINATION: (INSERT NUMBER(S))
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO:
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. COORDINATE WITH:
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION BRACKETED
7. OTHER (SPECIFY):

CLASSIFICATION CHANGED TO Unclassified
Insert Appropriate Classification Level and Category (Ex. Secret Restricted Data)
By Authority of LOE FTRS 7-97 RADPS 12-15-95
(Authority for Change in Classification) (Date)
By: ADC 3-5-98
(Signature of Person Making Change) (Title) (Date)
Verified by: 3-5-98
(Signature of Person Verifying Change) (Date)
Martin Marietta, PGDP

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REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
2	11/3/58	AS BUILT		11/3/58
1	12-16-51	NOTES ADDED	LM	12/20/51
	11-6-51	CONSTRUCTION	LM	
	9-29-51	APPROVAL	LM	9-29-51

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
KEY PLAN
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
9-21-51 ARCHITECT ENGINEER	R. A. WALKER 9-29-51 CARBIDE CARBON CHEM. DIV.	R. J. BROWN 9-28-51 A. E. C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
RAY NIX AL STANCATO	7-5-51	LM	9-20-51	50-141
IN CHARGE	DATE	CHIEF	DATE	
	9-21-51		9-21-51	

PROJECT	BUILDING	SHEET
C KENTUCKY AREA	C-333	G1-1-M

SHEET NO.	TITLE
	REFERENCE DRAWINGS

REVIEWED FOR CLASSIFICATION
Initials 12-15-97 Date
UNCLASSIFIED

Unclassified

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Unclassified
3/19/15

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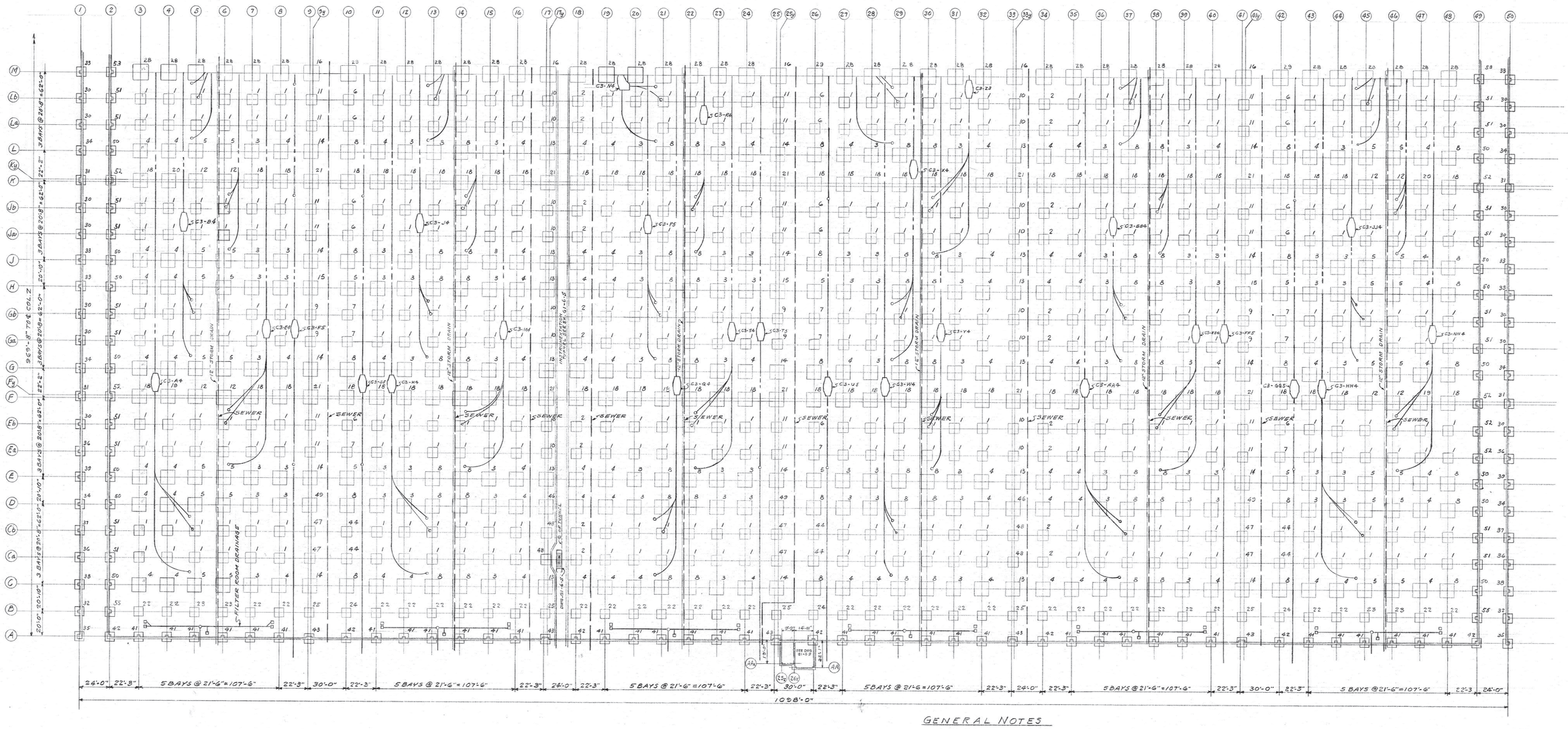
Unclassified



PLAN OF FOOTINGS
SCALE 1/32" = 1'-0"

CLASSIFICATION CHANGED TO: Unclassified
(Insert Appropriate Classification Level and Category) (Date)
By Authority of: DOE/LTR 817/157 and ~~[illegible]~~ P605 1/4/95
(Authority for Change in Classification) (Date)
By: [illegible] ADC 2/11/58
(Signature of Person Making Change) (Date) (Date)
Verified by: [illegible] 2/11/58
(Signature of Person Verifying Change) (Date)
Martin Marietta, PGDP

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEWER: [illegible] (Name)
Authority: ADD Date: 2/11/58
2ND REVIEWER: (Name)
AUTHORITY: ADD
DATE:
DETERMINATION (Insert Numbers)
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO U
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. COORDINATE WITH
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION EXTRACTED
7. OTHER

GENERAL NOTES

Before any concrete is poured in any area, check all Arch. Mech. and Elect. drawings as well as all Process piping drawings for openings, ducts sleeves curb angles etc. which must be provided before work is begun. The concrete contractor is responsible for the placing of all bolts, sleeves, and other built-in items occuring in the work, and shall cooperate with all Trades so that such work is accurately placed in the forms.

Unless otherwise noted, all concrete for this Job should have a design strength of 2500#/□" in 28 days.

All exterior foundation walls & footings to extend 3'-0" minimum below finish grade unless otherwise noted.

For location of bench marks see site drawings.

All key sizes in wall construction joints shall be as follows unless otherwise noted.
2 x 3 for 8"&10" walls
2 x 4 for 12" walls

Bend bars a minimum of 2'-6" around corners.

Lap bars 40 diameters.

Unless otherwise shown, provide 2-½"φ diagonal bars, each face, at each corner of openings in basement slab and foundation walls.

See details for corner bars for openings in cell floor slab.

Chamfer all exposed corners of concrete construction 1"x1" except where concrete abuts masonry

All control joints in walls to be on ℄ of bay as indicated on foundation plan & sections.

Supported slabs & equipment foundations, misc. pads pits and manhole walls max. size of aggregate is 1".

Slabs on ground max size of aggregate is 1½"

Footings, piers, grade walls max. size of aggregate is 1½"

All footings to extend a minimum of 4'-0" below Elev. 384'-0"

Wherever a soil bearing value of 4000#/□' does not exist at a given elevation for bottom of footing, the footing is to be continued down until such bearing value is attained.

A 9" compacted working surface consisting of a natural mixture of gravel, sand, & binder such as the Lafayette stratum existing on or near the site shall be provided under all slabs on ground. Material and compaction shall meet the approval of the Arch.-Engr.

Backfill over footings to be approved fill material consisting of suitable materials obtained during excavation or new material such as the Lafayette deposit. Compaction to be 95% of Proctor density. See Spec's.

Where excavation for ducts, pipe, manholes, etc. has been carried partially through the pressure zone of column Ftgs, backfill shall be lean concrete. The pressure zone is to be assumed as that mass of soil contained within a frustum of a pyramid subtending the footing and possessing sides sloping at an angle of 1½ horiz. to 1 vert.

3 Foundation Walls and exterior piers are to be poured monolithically.

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REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
4	11-13-59	AS BUILT	EMC	
3	10-30-51	REVS & ADDL AREA RELEASED FOR CONST.		11-8-51
2	9-22-51	REVS. & ADDL AREA RELEASED FOR CONST.		9-27-51
1	9-15-51	REVISIONS AND ADDL AREA RELEASED FOR CONST.		
	9-8-51	CONSTRUCTION		
	7-1-51	APPROVAL OF AREA RELEASED FOR CONST.		9-6-51
	3-26-51	DETAILING OF REINFORCING IN FTG'S		

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
FOUNDATION PLAN
WEST PART

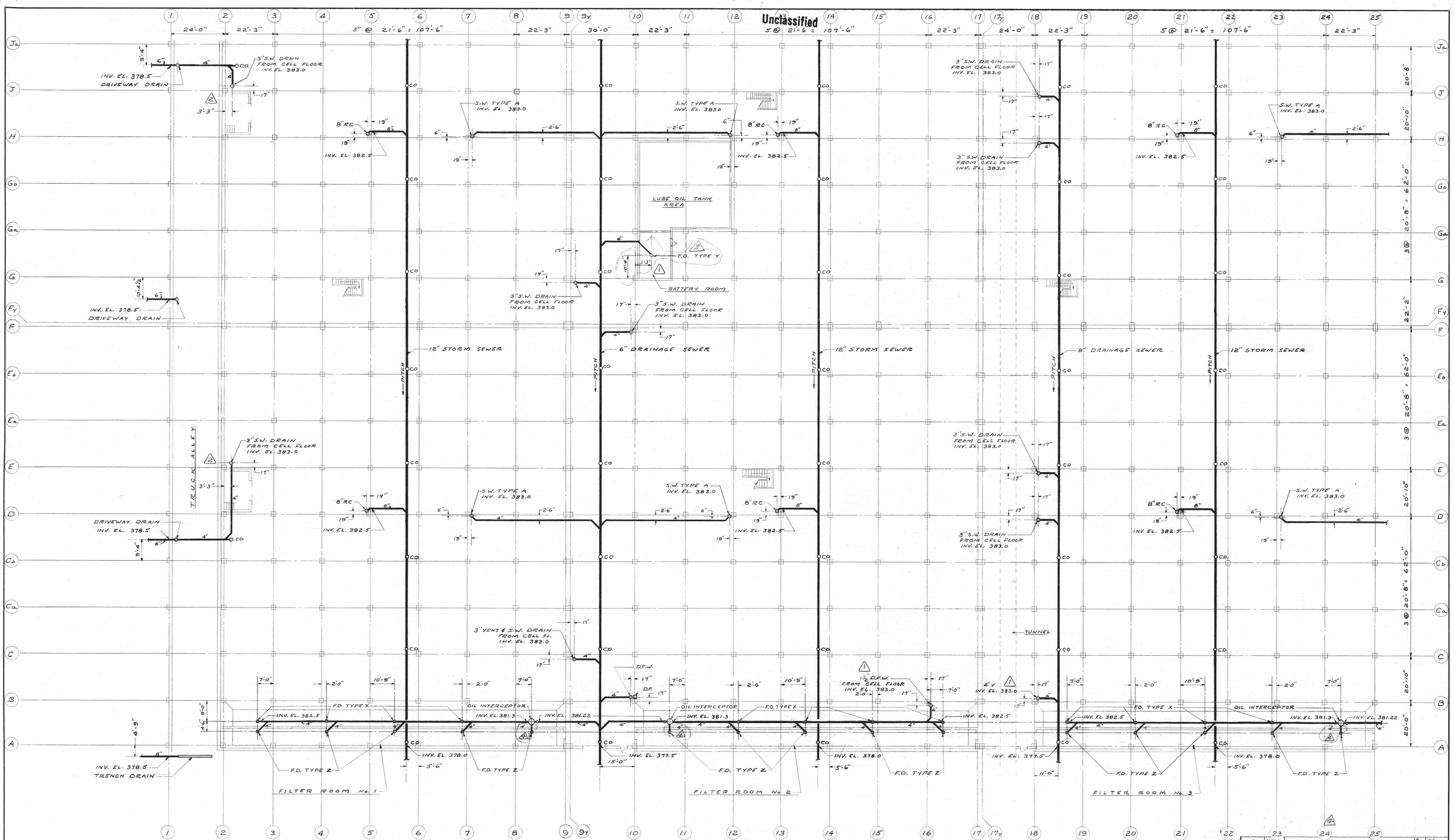
DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
9-1-51	R. A. WALKER 9-17-51	R. J. BROWN 9-19-51
ARCHITECT ENGINEER	CARBIDE CARBON CHEM. DIV.	A. E. C. ENGINEER

DRAWN A.C. HAUGAN	DATE	CHECKED	DATE 10/29/51	JOB 50-141
IN CHARGE A. Spano	DATE	CHIEF C.W. Giffels	DATE	
PROJECT "C" KENTUCKY AREA	BUILDING C-333		SHEET G1-1-S	

SHEET NO.	TITLE
REFERENCE DRAWINGS	

MICROFILMED

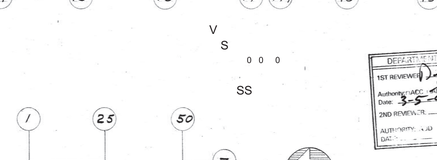
Unclassified



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"

GROUND FLOOR EL. 384.0



CLASSIFICATION CHANGED TO Unclassified

(Insert Appropriate Classification Level and Category) (Date)

By Authority of DOE HQ C-1-97 4/24/95 12-15-95

Authority for Change in Classification) (Date)

By ADC 7-5-95

(Signature of Person Making Change) (Title) (Date)

Verified by 3-5-98

(Signature of Person Verifying Change) (Date)

Martin Marietta, PGDP

REVIEWED FOR CLASSIFICATION

Initials

UNCLASSIFIED

Unclassified

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

1ST REVIEWER — DETERMINATION 1 (INSERT NUMBER)

1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. COORDINATE WITH:
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION BRACKETED
7. OTHER (SPECIFY)

Authority (ADC) — Date: 3-5-98

2ND REVIEWER

AUTHORITY (ADC)

DAC

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REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
4	11/14/53	AS BUILT	RBW	11/14/53
3	11/3/53	AS BUILT INFORMATION ADDED	RBW	11/3/53
2	12-14-51	TWO S.W. DRAINS RELOCATED	LM	12/21/51
1	11-27-51	BATTERY ROOM F.D. ADDED - 4" VENT ADDED. D.F.W. SIZE ADDED	LM	12-4-51
	10-6-51	CONSTRUCTION	LM	
	9-22-51	APPROVAL	LM	9-29-51

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
9-21-51 ARCHITECT ENGINEER	R.A. WALKER 9-29-51 CARBIDE CARBON CHEM. DIV.	R.J. BROWN 9-29-51 A.E.C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
RAY NIX	9-12-51	LM	9-21-51	50-141

IN CHARGE	DATE	CHIEF	DATE
L. Maurer	9-21-51	Rauch	9/21/51

PROJECT	BUILDING	SHEET
C KENTUCKY AREA	C-333	G1-2-M

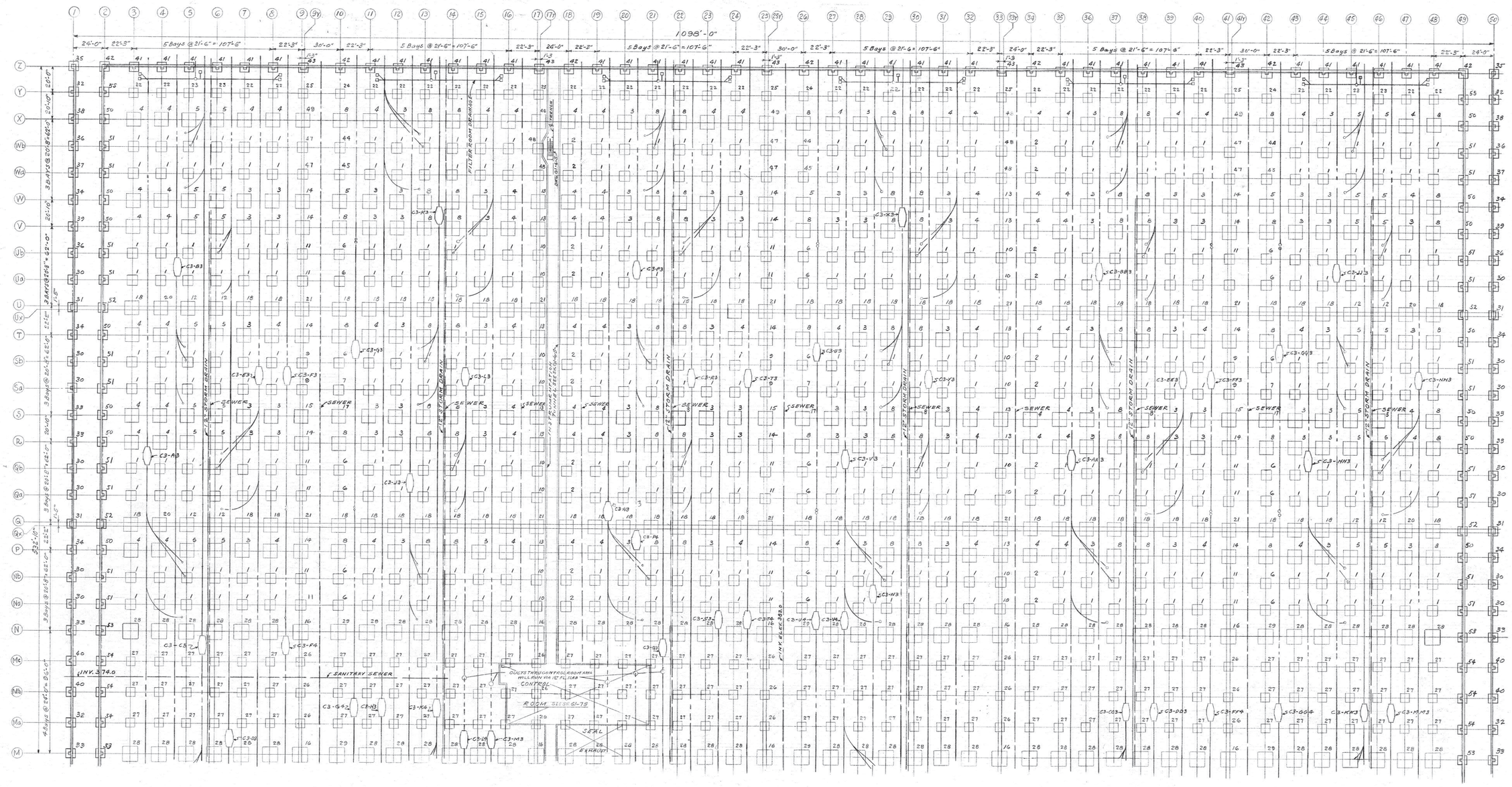
SHEET NO.	TITLE
G1-1-M	PLUMBING - KEY PLAN

REFERENCE DRAWINGS

UNCLASSIFIED

MICROFILMED

Unclassified



PLAN OF FOOTINGS
SCALE 1/32" = 1'-0"

CLASSIFICATION CHANGED TO Unclassified 2/11/94
(Insert Appropriate Classification Level and Category) (Date)
By Authority of DOE CIR 817749 CG-DOD-5 12/95
(Authority for Change in Classification) (Date)
By (Signature of Person Making Change) (Date) 2-11-94
Verified by (Signature of Person Verifying Change) (Date) 2/11/94
Martin Marietta, PGDP

CLASSIFICATION CHANGED TO
(Insert Appropriate Classification Level and Category) (Date)
By Authority of (Authority for Change in Classification) (Date)
By (Signature of Person Making Change) (Date)
Verified by (Signature of Person Verifying Change) (Date)
Martin Marietta, PGDP

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEWER (Name) DETERMINATION (INSERT NUMBER(S))
Authority: CADD ADD: CADD
Date: 2/11/94
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO U
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION EXISTS
7. OTHER (Specify)
2ND REVIEWER (Name)
AUTHORITY: ADD
DATE:

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PUBLIC RELEASE

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2

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
5	11-13-53	AS BUILT	RMC	
A	12-8-51	REMOVED "HOLD" FROM CONTROL RM.		12-19-51
4	10-30-51	REV'S & ADD'L AREA RELEASED FOR CONST.		11-8-51
3	9-22-51	REV'S. & ADD'L AREA RELEASED FOR CONST.		9-27-51
2	9-15-51	REVISIONS AND ADD'L AREA RELEASED FOR CONST.		
	9-8-51	CONSTRUCTION		
	9-1-51	APPROVAL OF AREA RELEASED FOR CONST.		9-6-51
	8-24-51	DETAILING OF REINFORCING IN FTG'S		

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE

FOUNDATION PLAN
EAST PART

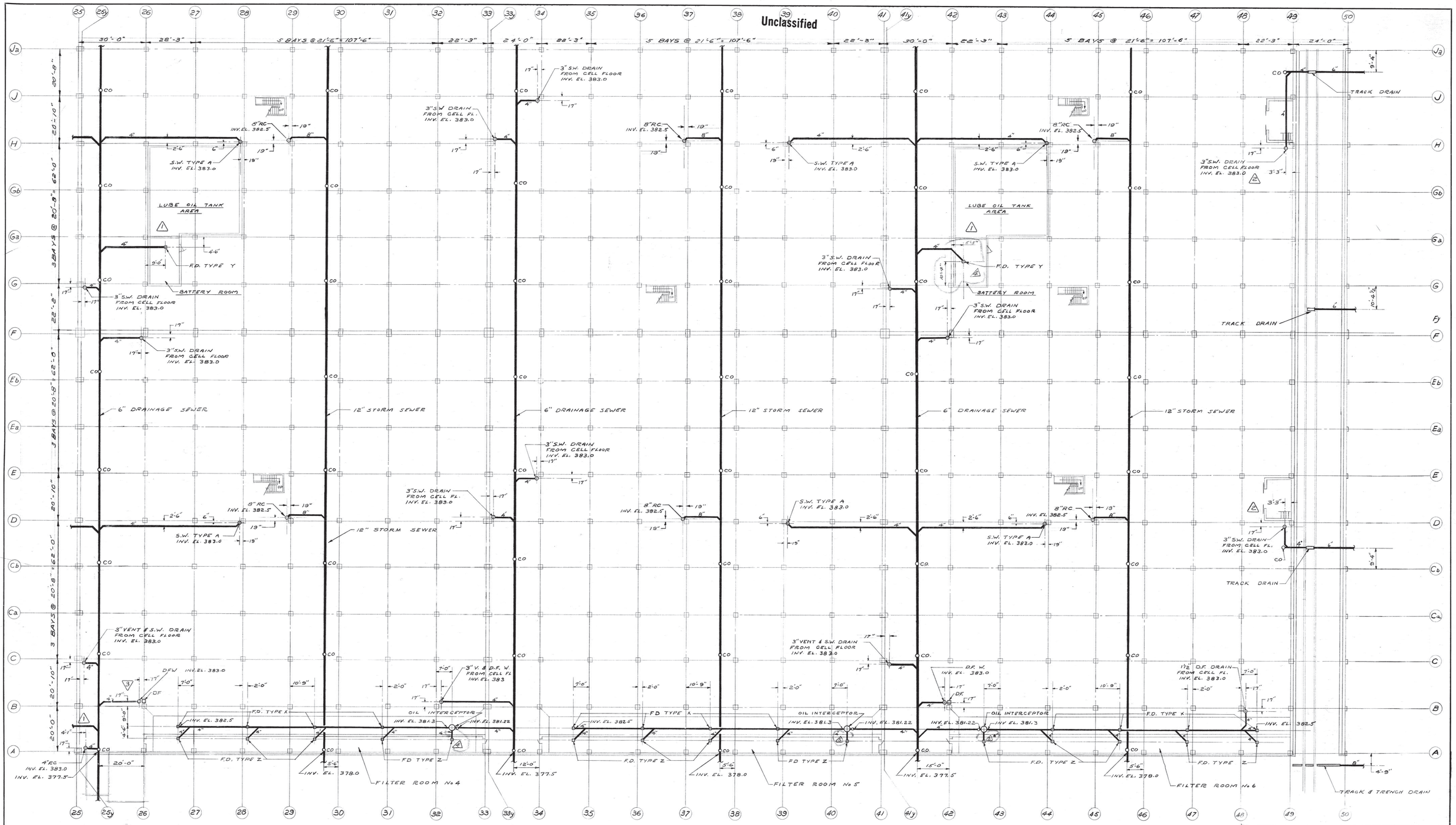
DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
O. J. Ritzenthaler 9-1-51	R. A. WALKER 9-19-51	R. J. BROWN 9-19-51
ARCHITECT ENGINEER	CARBIDE CARBON CHEM. DIV.	A. E. C. ENGINEER

DRAWN A.C. HAUGAN	DATE	CHECKED	DATE 10/20/50
IN CHARGE	DATE	CHIEF	DATE
PROJECT "C" KENTUCKY AREA	BUILDING C-333	SHEET G1-2-5	JOB 50-141

SHEET NO.	TITLE
	REFERENCE DRAWINGS

MICROFILMED

Unclassified



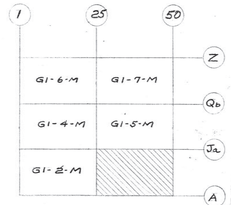
CLASSIFICATION CHANGED TO **Unclassified**
(Insert Appropriate Classification Level and Category) (Date)
By Authority of: DOE LTR 97-97 DNOE 12-15-97
(Authority for Change in Classification) (Date)
By: ADC 8-5-98
(Signature of Person Making Change) (Title) (Date)
Verified by: 8-5-98
(Signature of Person Verifying Change) (Date)
Martin Marietta, PGDP

REVIEWER FOR CLASSIFICATION
Initials 12-15-97 Date
UNCLASSIFIED

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEWER: (Name)
Authority: DADC ADD
Date: 2-5-98
2ND REVIEWER: (Name)
AUTHORITY: ADD
DATE:
DETERMINATION (CIRCLE NUMBERS)
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO: U
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. COORDINATE WITH:
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION BRACKETED
7. OTHER (SPECIFY)

GROUND FLOOR PLAN
SCALE 1/16" = 1'-0"
GROUND FLOOR EL. 384.0

Unclassified



[redacted]

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UNCLASSIFIED

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
E.W. 5	11/9/63	AS BUILT	RBM	11/9/63
E.W. 4	11/9/63	AS BUILT INFORMATION ADDED	RBM	11/9/63
3	3-10-52	DF DRAIN ADDED	LM	3-24-52
2	12-14-51	TWO S.W. DRAINS RELOCATED	LM	12-26-51
1	11-27-51	DIMENSION RELOCATED. TWO BATTERY ROOM DRAINS ADDED	LM	12-4-51
	10-12-51	CONSTRUCTION	LM	
	10-2-51	APPROVAL	LM	10-11-51

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Steigleder 10-2-51	R. A. WALKER 10-11-51	E. J. BROWN 10-11-51
ARCHITECT ENGINEER	CARBIDE CARBON CHEM. DIV.	A. E. C. ENGINEER

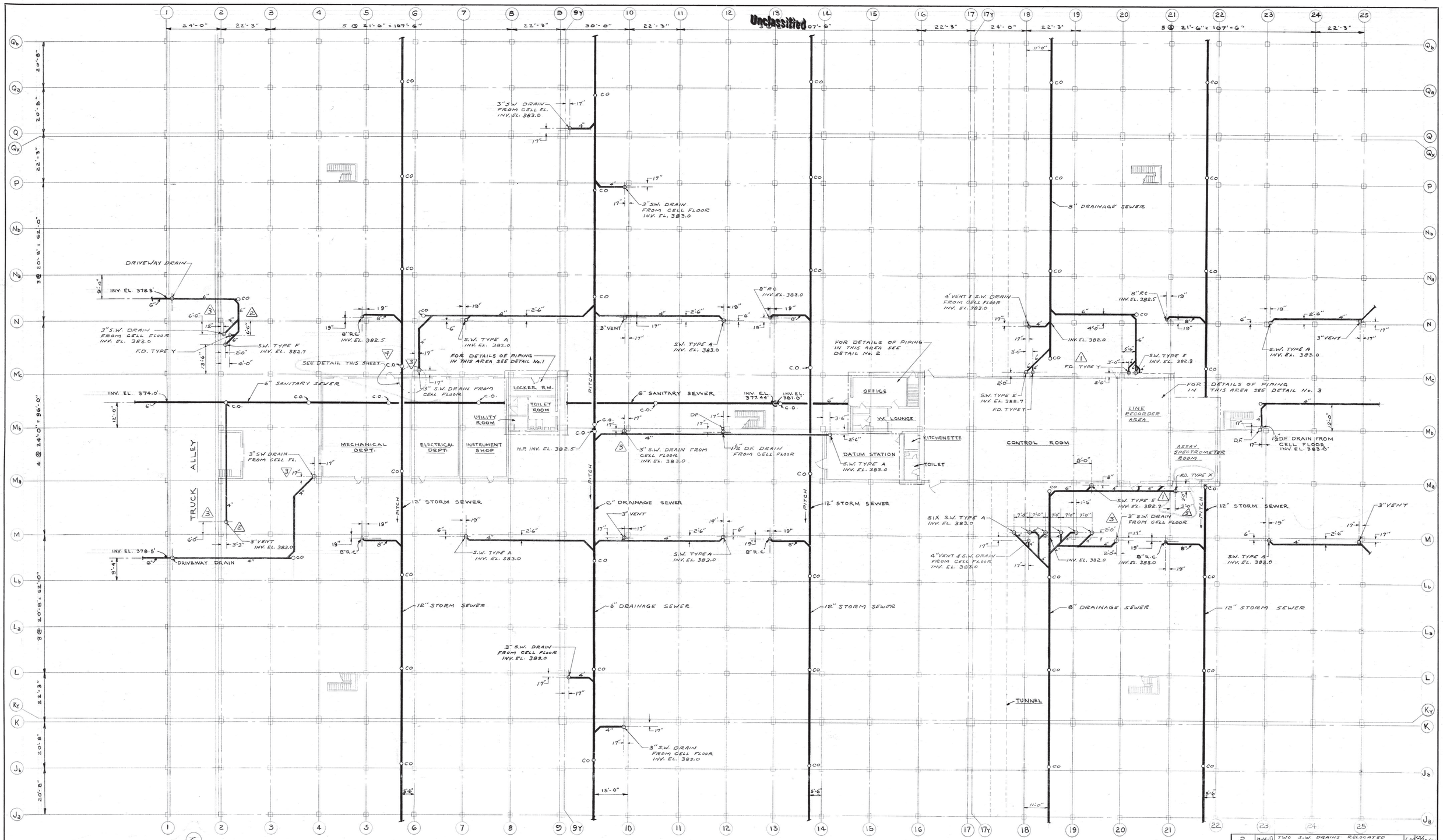
DRAWN: AL STANCATO, RAY NIX	DATE 9-12-51	CHECKED LM	DATE 10-2-51	JOB 50-141	
IN CHARGE: K. Maurer	DATE 10-2-51	CHIEF: Rausch	DATE 10-2-51		
PROJECT "C" KENTUCKY AREA		BUILDING C-333		SHEET GI-3-M	

SHEET NO.	TITLE
GI-1-M	PLUMBING-KEY PLAN

REFERENCE DRAWINGS

2

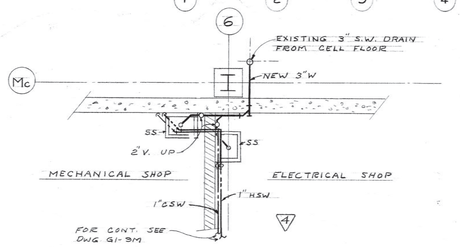
MICROFILMED



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"

GROUND FLOOR ELEV. 384.0'



PLAN DETAIL OF SERVICE SINK INSTALLATION IN MECH. & ELECT SHOPS

SCALE 1/16" = 1'-0"

FOR PLAN LOCATION SEE THIS SHEET.

CLASSIFICATION CHANGED TO **Unclassified**

(Insert Appropriate Classification Level and Category) (Date)

By Authority of: DOE LIR 8-7-97 Reps 12-15-97

(Authority for Change in Classification) (Date)

By: (Signature of Person Making Change) (Title) (Date)

Verified by: (Signature of Person Verifying Change) (Date)

Martin Medeiros, PGDP

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

1ST REVIEWER: (Name)

Authority: DADC DOE DADD

Date: 3-5-98

2ND REVIEWER: (Name)

AUTHORITY: ADD

DATE:

DETERMINATION: (INSERT NUMBER)

1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO:
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. CORRELATE WITH:
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION BRACKETED
7. OTHER (SPECIFY)

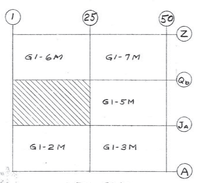
REVIEWED FOR DECLASSIFICATION

12-15-97

Date

UNCLASSIFIED

Unclassified



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REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
E.W. 6	11/3/63	AS BUILT		
E.W. 5	11/3/63	AS BUILT INFORMATION ADDED		
4	2-25-53	SERVICE SINKS ADDED IN MECH. & ELECT. SHOPS	LM	3/11/53
3	3-10-52	VENT & S.W. RELOCATED & S.W. DRAINS ADDED	LM	3/20/52

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
2	12-14-51	TWO S.W. DRAINS RELOCATED	LM	12/22/51
1	11-27-51	TWO S.W. & TWO F.D. RELOCATED & PIPING ADDED	LM	12/4/51
	10-7-51	CONSTRUCTION	LM	10/9/51
	9-29-51	REISSUED FOR APPROVAL	LM	10-3-51
	9-24-51	APPROVAL	LM	

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Snyder 10-2-51 ARCHITECT-ENGINEER/AM	R. A. WALKER 10-2-51 CARBIDE CARBON CHEM. DIV.	R. J. BROWN 10-2-51 A.E.C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
K. J. MEYERS & G. HIX	7-14-51	LM	9-24-51	50-141

IN CHARGE	DATE	CHIEF	DATE
L. Maurer	9-24-51	Rauschka	9-24-51

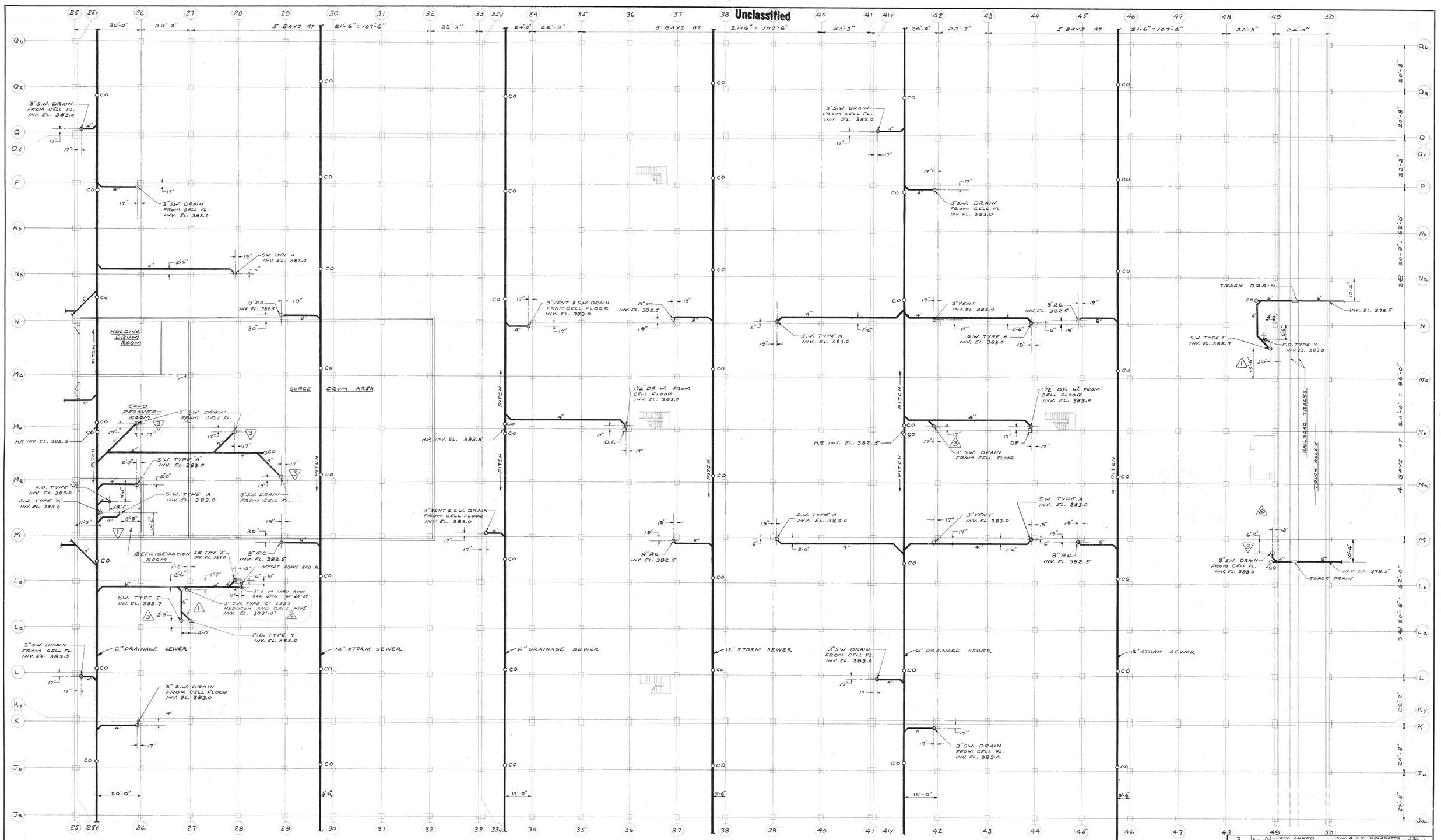
PROJECT	BUILDING	SHEET
"C" KENTUCKY AREA	C-333	G1-4-M

SHEET NO.	TITLE
G1-1-M	PLUMBING - KEY PLAN

REFERENCE DRAWINGS

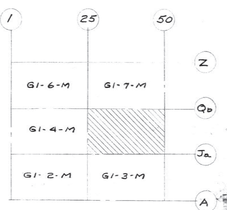
MICROFILMED

Unclassified



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"
GROUND FLOOR EL. 384.0



KEY PLAN

[redacted]

OFFICIAL USE ONLY

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
3	3-30-51	S.W. ADDED S.W. & F.D. RELOCATED	LM	3/30/51
2	12-14-51	4 S.W. DRAINS ADDED	LM	12/14/51
		S.W. DRAIN RELOCATED		
1	11-27-51	DIMENSIONS CHANGED S.W., F.D., & V.	LM	11/27/51
		RELOCATED		
	10-12-51	CONSTRUCTION	LM	
	10-2-51	APPROVAL	LM	10-11-51

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
EN. 5	11/13/53	AS BUILT	PB/M	11/13/53
4	10-24-52	3" S.W. AND 3" VENT ADDED	LM	10-31-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C.J. Stephen 10-2-51 ARCHITECT ENGINEER	R.A. WALKER 10-11-51 CARBIDE CARBON CHEM. DIV.	R.J. BROWN 10-11-51 A. E. C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
RAY NIX	9-18-51	LM	10-2-51	50-141

IN CHARGE	DATE	CHIEF	DATE
R. Meurer	10-2-51	Rausch	10-2-51

PROJECT	BUILDING	SHEET
C KENTUCKY AREA	C-333	GI-5-M

SHEET NO.	TITLE
GI-1-M	PLUMBING-KEY PLAN

REFERENCE DRAWINGS

BT Images, Inc.
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REVIEWED FOR CLASSIFICATION
Initials 12-15-97 Date
UNCLASSIFIED

CLASSIFICATION CHANGED TO Unclassified
(Insert Appropriate Classification Level and Category) (Date)
By Authority of 1052 LTR 8-1-97 ADC 5 (12-15-97)
(Authority for Change in Classification) (Date)
By (Signature of Person Making Change) (Date) 3-5-98
Verified by: (Signature of Person Verifying Change) (Date) 3-5-98
Martin Marietta, PGDP

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

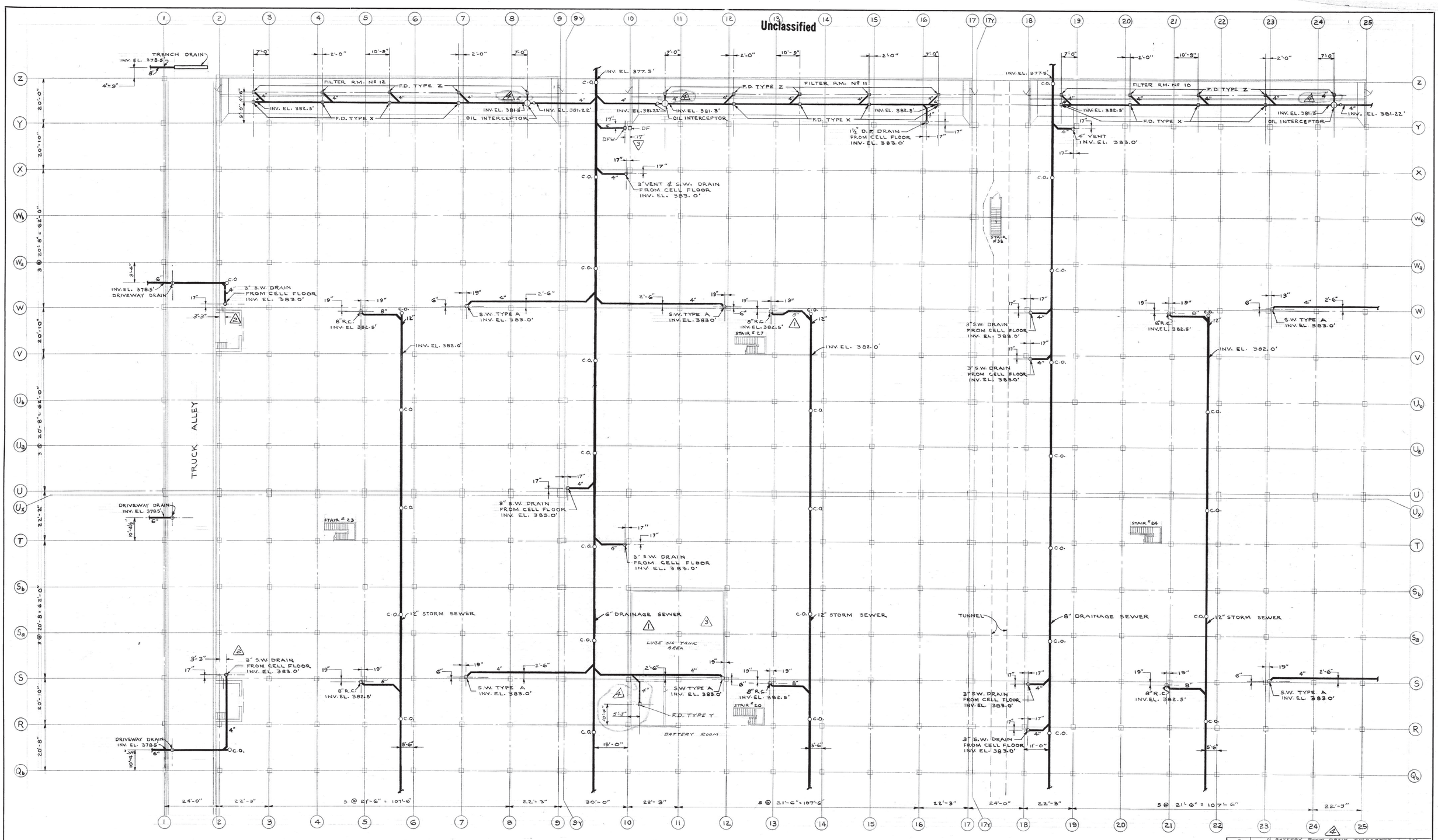
1ST REVIEWER: (Name)	DETERMINATION (INSERT NUMBERS)
Authority: ADC (Date) ADD	1. CLASSIFICATION RETAINED
Date: 7-5-98	2. CLASSIFICATION CHANGED TO
2ND REVIEWER: (Name)	3. CONTAINS NO DOE CLASSIFIED INFORMATION
AUTHORITY: ADD	4. CODE/IMAGE WITH:
DATE:	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFORMATION BRACKETED
	7. OTHER (SPECIFY):

Unclassified

UNCLASSIFIED

MICROFILMED

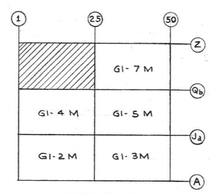
Unclassified



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"

GROUND FLOOR EL. = 384.0'



KEY PLAN

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
3	3-10-54	BATTERY ROOM DRAIN RELOCATED	LM	3/24/62
2	12-14-53	TWO SIGHT WASTE DRAINS RELOCATED	LM	12/24/53
1	11-27-51	BATTERY ROOM F.D. ADDED. PIPE REROUTED	LM	12/4/51
	10-12-51	CONSTRUCTION	LM	
	10-9-51	APPROVAL	LM	10-11-51
EW	5	11/3/53	AS BUILT	RBM 11/3/53
EW	4	11/3/53	AS BUILT INFORMATION ADDED	RBM 11/3/53

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
10-9-51 ARCHITECT ENGINEER	R. A. WALKER 10-11-51 CARBIDE CARBON CHEM. DIV.	R. J. BROWN 10-11-51 A. E. C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
K. J. MEYERS	10-5-51	LM	10-9-51	50-141

IN CHARGE	DATE	CHIEF	DATE
	10-9-51		10/9/51

PROJECT	BUILDING	SHEET
"C" KENTUCKY AREA	C-333	GI-6M

SHEET NO.	TITLE
GI-1-M	PLUMPING - KEY PLAN

REFERENCE DRAWINGS

CLASSIFICATION CHANGED TO: Unclassified
(Insert Appropriate Classification Level and Category) (Date)
By Authority of: DOE LTR 8-7-97 (Authority for Change in Classification) (Date)
By: ADC 2-5-98 (Signature of Person Making Change) (Title) (Date)
Verified by: 3-5-98 (Signature of Person Verifying Change) (Date)
Martin Marietta, PGDP

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEWER: (Name) DETERMINATION: 2 (INSERT NUMBER)
Authority: ADD / DENY / ADD
Date: 3-5-98
2ND REVIEWER: (Name)
AUTHORITY: ADD
DATE:
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO: U
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. COORDINATE WITH:
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION BRACKETED
7. OTHER (SPECIFY)

REVIEWED FOR CLASSIFICATION
Initials 12-15-97 Date
UNCLASSIFIED

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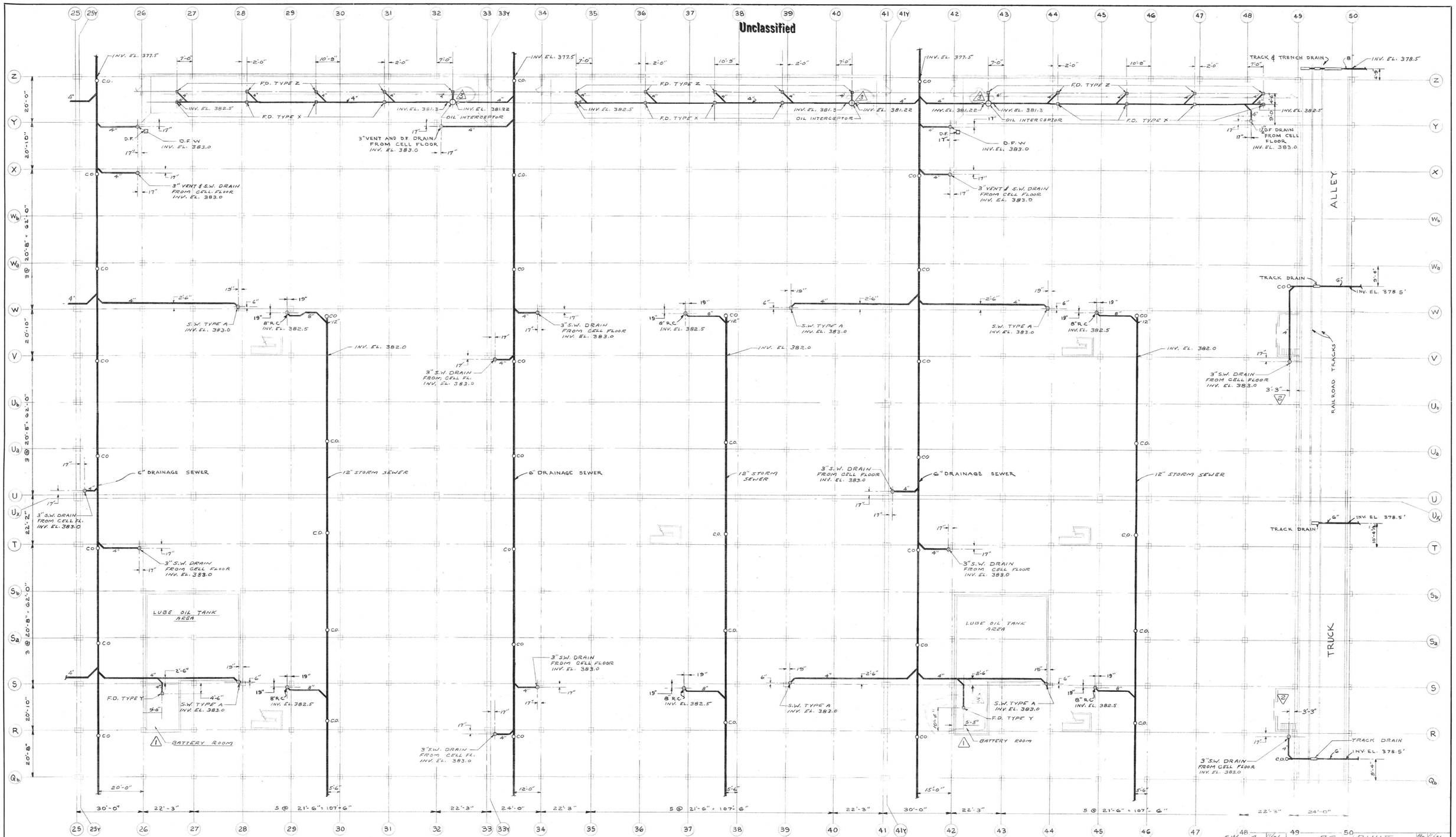
Unclassified

UNCLASSIFIED

MICROFILMED

Unclassified



REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
E.W. 4	7/6/58	AS BUILT	RBN	7/8/58
E.W. 3	11/8/58	AS BUILT INFORMATION ADDED	RBN	11/8/58
2	12/26-51	TWO SIGHT WASTE DRAINS RELOCATED	LM	12/26/51
1	11-27-51	TWO BATTERY ROOM F.D. ADDED	LM	11/27/51
	10-12-51	CONSTRUCTION	LM	
	10-2-51	APPROVAL	LM	10-11-51

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Stoughden 10-2-51 ARCHITECT ENGINEER	R. A. WALKER 10-11-51 CARBIDE CARBON CHEM. DIV.	R. J. BROWN 10-11-51 A. E. C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
K.M. RAY NIX	9-17-51	LM	10-2-51	50-141

IN CHARGE	DATE	CHIEF	DATE
J. Mauser	10-2-51	Rauschs	10-2-51

PROJECT	BUILDING	SHEET
C KENTUCKY AREA	C-333	GI-7-M

SHEET NO.	TITLE
GI-1-M	PLUMBING - KEY PLAN

REFERENCE DRAWINGS

GROUND FLOOR PLAN
SCALE 1/16" = 1'-0"
GROUND FLOOR EL. 384.0

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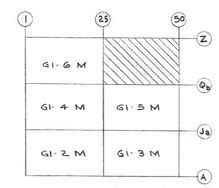

KEY PLAN

BT Images, Inc.
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CLASSIFICATION CHANGED TO Unclassified
(Insert Appropriate Classification Level and Category) (Date)
By Authority of DOE LTR 8-7-97 (ADPS 5-12-95-95)
(Authority for Change in Classification) (Date)
By (Signature of Person Making Change) (Title) (Date)
Verified by: (Signature of Person Verifying Change) (Date)
Martin Maciotta, PGDP

REVIEWED FOR CLASSIFICATION
Initials 12-15-97 Date
UNCLASSIFIED

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEWER: (Name) DETERMINATION: 3 (PHASE I NUMBER)
Authority: DACC DADC DADD
Date: 3-5-98
2ND REVIEWER: (Name)
AUTHORITY: ADD
DATE:
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO U
3. CONTAINS NO DOE CLASSIFIED INFORMATION
4. COUNTERSIGN WITH
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFORMATION UNCONFIRMED
7. OTHER (SEE BELOW)

Unclassified

UNCLASSIFIED

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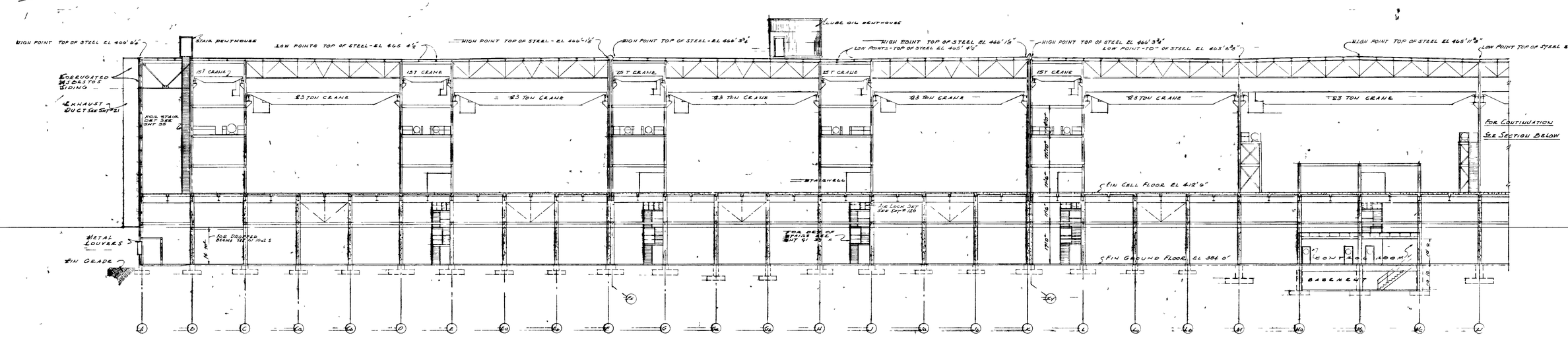
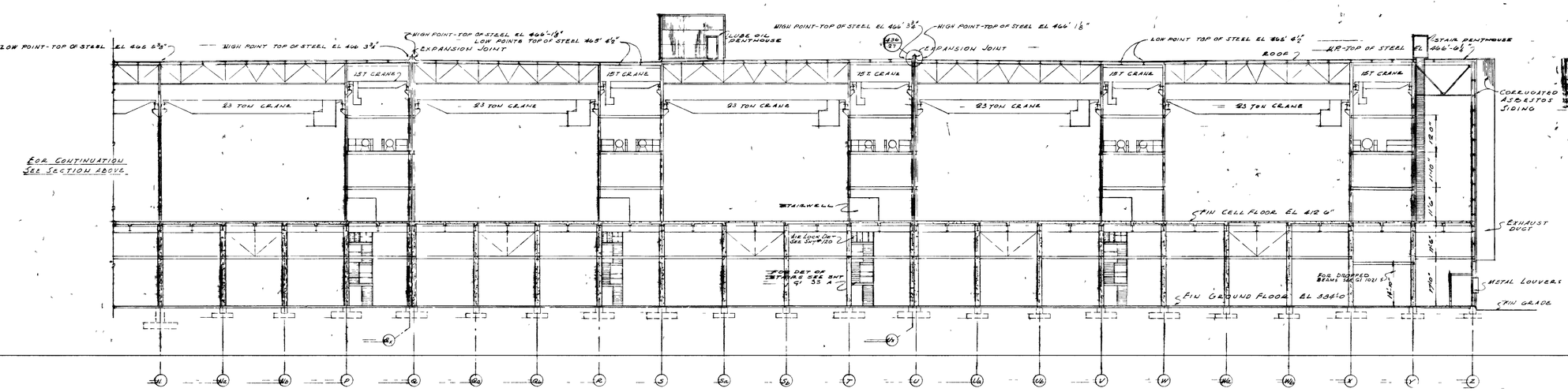
Unclassified



WEST PORTION CROSS SECTION E-16

SCALE 1/16" = 1'0"



EAST PORTION CROSS SECTION E-16

SCALE 1/16" = 1'0"

NOTE SEE SHT #9, 6 A TO #61-11 A INCL. FOR SECTION LOCATIONS.

BT Images Inc
00025811

REV NO	DATE	ISSUED FOR	BY	APP DATE
2	12 15 53	As Built (see PK-AV 97-3316)		
	12 18 51	Cell Fl Slab Thickness	G	1 7 52
	11 10 51	Construction	K.L.P.	
	11 3 51	Approval	G	
	10 8 51	Rev To Accompany Bulletin 5-10		
Bull 5-10	9 10 51	Increase of Roofing Insulation, Met Roof Deck & Corr. Asbestos Siding Only		
	8 31 51	Structural Steel Reference #2		
	8 27 51	Structural Steel Reference		

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC
ENGINEERS
DETROIT 26 MICHIGAN

DRAWING TITLE

1/16" SCALE SECTIONS

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
G. J. Baughman 11 13 51	R. J. Wicker 10 8 51	N. J. Brown 10 8 51
ARCHITECT ENGINEER	CARBIDE CARBON CHEM DIV	A. E. C. ENGINEER

DRAWN W. Prochaska	DATE	CHECKED	DATE 11 52	JOB 50 141	
IN CHARGE J. Pfaendtner	DATE	CHIEF L. V. Gibbs	DATE		
PROJECT "C" Kentucky Area	BUILDING C-333	SHEET GI-16-A			

SHEET NO	TITLE
200 201	CONDENSER PLATFORMS
21	EXHAUST DUCTS
34	LUBE OIL PENTHOUSE
6, 7, 8, 9	PLAN
33 35, 36	STAIRS
27, 28, 29	EXPANSION JOINTS

REFERENCE DRAWINGS

DETAIL NUMBER
REFERENCE SHEET NO
DETAIL SYMBOL

CLASSIFICATION CHANGED TO Unclassified 2/2/98
(Insert Appropriate Classification Level and Category) (Date)
By Authority of (Authority for Change in Classification) (Date)
By (Signature of Person Making Change) (Date)
Verified by (Signature of Person Verifying Change) (Date)
Martin Mariano, PODP

DEPARTMENT OF ENERGY DECLASSIFICATION

This material contains information affecting the national defense of the United States within the meaning of the espionage laws, 50 U.S.C. 31 and 32, as amended. Its transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

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SENSITIVE INFORMATION

Unclassified

MICROFILMED

K&E NO. 166 2-52

SHEET J1-1M

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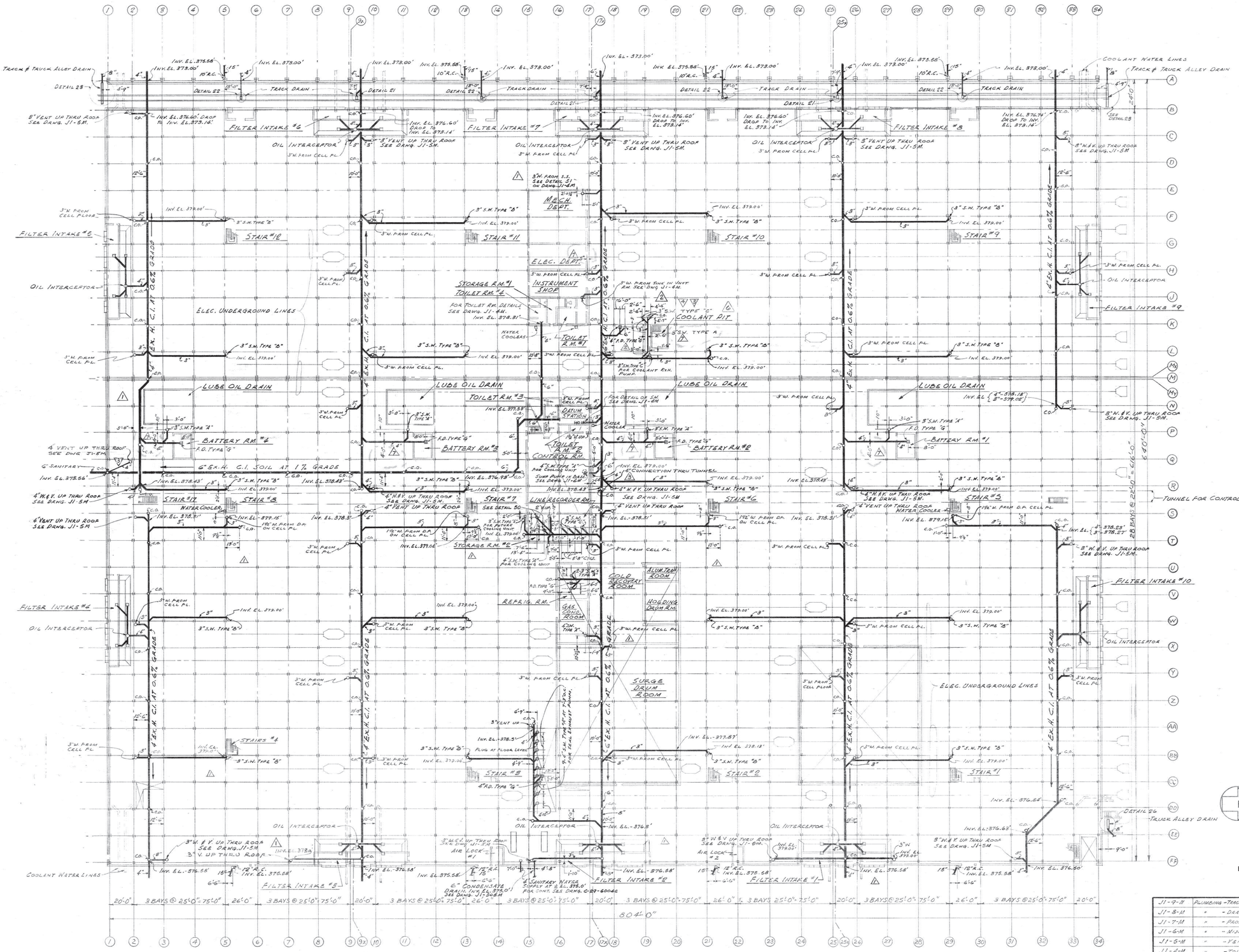


GROUND FLOOR PLAN

SCALE 1/32" = 1'-0"

FINISHED GROUND FLOOR EL. -380.00'

LEGEND

═══	CAST IRON DRAIN LINE
─·─	COLD SANITARY WATER
─ - -	HOT SANITARY WATER

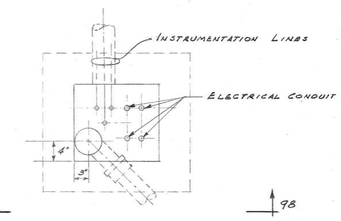
C.O.	CLEANOUT
C.S.W.	COLD SANITARY WATER
C.I.	CAST IRON
F.D.	FLOOR DRAIN
H.S.W.	HOT SANITARY WATER
LAV.	LAVATORY
S.W.	SIGHT WASTE
SH.	SHOWER
S.S.	SERVICE SINK
URI.	URINAL
W.	WASTE
W.C.	WATER CLOSET

NOTE:-

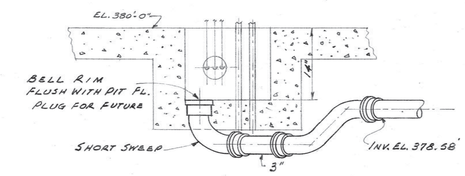
ALL UNDERGROUND DRAIN LINES TO BE CAST IRON TO 5'-0" OUTSIDE OF BLDG.

FOR DETAILS NO. 21 THRU 26 SEE DRWG. NO. J1-9M.

FOR CONTINUATION OF ALL UNDERGROUND WATER & DRAINAGE LINES DRWGS. C-29-6001 & 6004C.



DETAIL NO. 50
DRAINS IN STORAGE ROOM #2
SCALE: 1" = 1'-0"



SECTION NO. 98
SCALE: 1" = 1'-0"

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J1-9-M	PLUMBING - TRUCK & TRUCK ALLEY DRAIN			
J1-8-M	" - DRAINAGE FOR FILTER RMS.			
J1-7-M	" - PROFILES FOR DRAIN LINES			
J1-6-M	" - MISCELLANEOUS DETAILS			
J1-5-M	" - VENTS			
J1-4-M	" - TOILET RM. DETAILS			
J1-3-M	" - GROUND FLOOR PLAN SANITARY WATER			
J1-2-M	" - CELL FLOOR PLAN WASTE & VENT LINES			
J1-1-M	" - GROUND FLOOR PLAN UNDERGROUND SERVICES			
C5-2M & 3M	MECHANICAL-OUTSIDE SERVICE LINES			
J1-10-M THRU J1-18-M	MECHANICAL-HEATING & VENTILATING			
J1-20-M THRU J1-24-M	" - COOLING WATER			
J1-25-M THRU J1-30-M, J1-32-M	ELECTRICAL			
J1-33-M THRU J1-35-M	STRUCTURAL			
J1-36-M THRU J1-53-M	"			
J1-54-M THRU J1-59-M	ARCHITECTURAL			
SHEET NO.	TITLE			
REFERENCE DRAWINGS				

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
R.L.J.				
8	5-26-54	AS BUILT		5-26-54
7	5-26-54	A. BUILT INFORMATION ADDED		5-26-54
6	8-14-53	CHG. S.W. TYPE A TO S.W. TYPE 'C' & REVISED PIPING.	LM	NR
5	8-8-53	CHG. DIMENSION	LM	NR
4	7-31-53	TWO S.W. TYPE A ADDED	LM	NR
3	3-25-53	ADDED 4" CONNECTION THRU TUNNEL ADDED 4" VENT	LM	NR
2	2-3-53	REPLACED S.W. TYPE 'C' S.W. ; RESIZED TYPE 'A' S.W.	LM	2-13-53
		REROUTED DRAIN LINE BETWEEN COLS 23-3	LM	12-2-52
1	11-19-52	MOVED S.W. AT COL. 13 & COL. 23 - CHANGED DIMENSIONS ; REMOVED & ADDED S.W. AT COL. 14	LM	9-25-52
	9-29-52	CONSTRUCTION	ABM	
	9-25-52	APPROVAL	LM	9-25-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
GROUND FLOOR PLAN - UNDERGROUND SERVICES

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Lingenfelter 9-15-52 C.W.J.	R. A. WALKER 9-24-52	L. H. JACKSON 9-25-52
ARCHITECT ENGINEER	CARBIDE CARBON CHEMICAL CO.	A. E. C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
D. HALL	7-21-52		9-11-52	51-163-P

IN CHARGE	DATE	CHIEF	DATE	PROJECT
C. Hoover	9-11-52	F. J. Rausch	9-11-52	"C"

BUILDING	SHEET
C-335	J1-1M

KENTUCKY AREA

REVIEWED FOR CLASSIFICATION
Y. Rude 11-24-97
Initials Date
UNCLASSIFIED

~~UNCLASSIFIED~~

MICROFILMED

K & E NO. 166 2-52

SHEET C335: J1-15

[redacted] Unclassified

GENERAL NOTES

BEFORE ANY CONCRETE IS POURED IN ANY AREA, CHECK ALL ARCH., MECH., AND ELECT. DRAWINGS AS WELL AS ALL PROCESS PIPING DRAWINGS FOR OPENINGS, DUCTS, SLEEVES, CURB ANGLES, ETC., WHICH MUST BE PROVIDED BEFORE WORK IS BEGUN. THE CONCRETE CONTRACTOR IS RESPONSIBLE FOR THE PLACING OF ALL BOLTS, SLEEVES AND OTHER BUILT-IN ITEMS OCCURING IN THE WORK, AND SHALL COOPERATE WITH ALL TRADES SO THAT SUCH WORK IS ACCURATELY PLACED IN THE FORMS.

UNLESS OTHERWISE NOTED, ALL CONCRETE FOR THIS JOB SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 2500 LB'S. PER SQ. IN. AT 28 DAYS.

ALL FOUNDATION WALLS AND FOOTINGS TO EXTEND 4'-0" MINIMUM BELOW FINISH GRADE OR ORIGINAL GRADE, UNLESS OTHERWISE NOTED.

FOR LOCATION OF BENCH MARKS SEE SITE DRAWINGS.

ALL KEY SIZES IN WALL CONSTRUCTION JOINTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: 2x3 FOR 8" AND 10" WALLS, 2x4 FOR 12" WALLS.

ALL REINFORCING SHALL BE OF INTERMEDIATE GRADE STEEL, DEFORMATIONS ON BARS SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A305

BEND BARS A MINIMUM OF 2'-6" AROUND CORNERS.

LAP BARS 20 DIAMETERS MIN.

UNLESS OTHERWISE SHOWN PROVIDE 2-½ϕ DIAGONAL BARS, EACH FACE, AT EACH CORNER OF OPENINGS IN BASEMENT, SLABS AND FOUNDATION WALLS.

FOR CELL FLOOR PLANS, NOTES, DETAILS, PIERS, OPENINGS AND REINFORCING SEE DWG'S. J1-8S TO J1-20S INCL.

CHAMFER ALL EXPOSED CORNERS OF CONCRETE CONSTRUCTION 1"x1" EXCEPT WHERE CONCRETE ABUTS MASONRY.

ALL CONTROL JOINTS IN WALLS TO BE ON ℄ OF BAY AS INDICATED ON FOUNDATION PLAN & SECTIONS.

SUPPORTED SLABS & EQUIPMENT FOUNDATIONS, MISC. PADS, PITS, AND MANHOLE WALLS, MAXIMUM SIZE OF AGGREGATE IS 1".

SLABS ON GROUND MAXIMUM SIZE OF AGGREGATE IS 1½".

FOOTINGS, PIERS, GRADE WALLS MAXIMUM SIZE OF AGGREGATE IS 1½".

WHEREVER A SOIL BEARING VALUE OF 5000 LB'S PER SQ. FT. DOES NOT EXIST AT A GIVEN ELEVATION FOR BOTTOM OF FOOTING, THE FOOTING IS TO BE CONTINUED DOWN UNTIL SUCH BEARING VALUE IS ATTAINED.

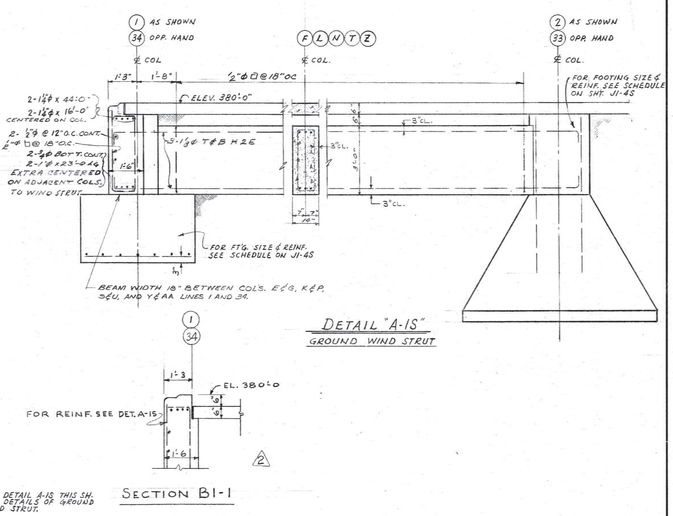
A 9" COMPACTED WORKING SURFACE CONSISTING OF A NATURAL MIXTURE OF GRAVEL, SAND & BINDER SUCH AS THE LAFAYETTE STRATUM EXISTING ON OR NEAR THE SITE SHALL BE PROVIDED UNDER ALL SLABS ON GROUND. MATERIAL AND COMPACTION SHALL MEET THE APPROVAL OF THE ARCH.-ENGINEER.

AREA IS TO BE GRADED AND COMPACTED TO ELEVATION 379'-6" BEFORE ANY FT'G. IS CONSTRUCTED.

ALL DRILLED IN FOOTINGS ARE TO HAVE A MINIMUM OF 2'-0" DEEP SHAFT ABOVE THE CONE OF BELLED BASE.

BACKFILL OVER FOOTINGS TO BE APPROVED FILL MATERIAL CONSISTING OF SUITABLE MATERIALS OBTAINED DURING EXCAVATION OR NEW MATERIAL SUCH AS THE LAFAYETTE DEPOSIT, COMPACTION TO BE 95% OF PROCTOR DENSITY. SEE SPECIFICATIONS

SEE STRUCTURAL STEEL DWGS. FOR SIZE, SPACING AND ORIENTATION OF ANCHOR BOLTS AND FOR ELEVATION OF BOTTOM OF BASE PLATES.



DETAIL "A-1S"
GROUND WIND STRUT

SECTION B1-1

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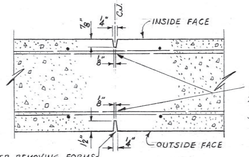

NOTE:
IN FOUNDATION WALLS CARRY JOINT OVER TOP OF WALL.

DETAIL OF CONTROL JOINTS C.J.

FOUNDATION PLAN

SCALE ½" = 1'-0"

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LEGEND

- ELECTRIC MANHOLES (FOR LOCATION SEE ELECT. DWG'S.), FOR DETAILS OF MANHOLES SEE J1-7S.
- ELECT. CONDUITS (SEE ELECT. DWG'S.).
- WATER LINES (SEE MECH. DWG'S.).
- DRAIN LINES (SEE MECH. DWG'S.).
- FOOTINGS ALREADY CONSTRUCTED.

THE FIRST TWO NUMBERS ADJACENT TO FOOTINGS IN PLAN DESIGNATE BRACKETS IN FOOTING SCHEDULE, THE SECOND TWO DESIGNATE FOOTING SIZE. SEE EXAMPLE BELOW

ϕ FOOTINGS - 8488 (BRACKET № 24, 8'-8" DIA.)
□ FOOTINGS - 13-64 (BRACKET № 13, 6'-4" SQ.)
ELEVATIONS SHOWN ON PLAN DESIGNATE BOTTOM OF FOOTING

REVIEWED FOR CLASSIFICATION
Name: [illegible] Date: 3/23/98
UNCLASSIFIED

UNCLASSIFIED

[redacted]

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
4	5-24-54	AS BUILT		
RMC 3	5-24-54	AS BUILT - REV. DEV. REQ. NOS. S-65 & S-68		
2	12-16-52	TO ACCOMPANY BULLETIN 512-P	ISM	12-30-52
1	10-29-52	TO ACCOMPANY BULLETIN 57-P	JED	11-12-52
	7-20-52	CONSTRUCTION	LAG	N.R.
	6-26-52	APPROVAL	CAG	7-10-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE

FOUNDATION PLAN

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
6-26-52 ARCHITECT ENGINEER	R.A. WALKER 7-10-52 CARBIDE CARBON CHEMICAL CO.	L.H. JACKSON 7-10-52 A.E.C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
C. SROCK, D. EFTHEMIOU		H.L. FOSTER	7-24-52	51-163P
IN CHARGE: S. DINNER	DATE	CHIEF: L.A. GIFFELS	DATE	

PROJECT	BUILDING	SHEET
"C" KENTUCKY AREA	C-335	J1-1S

SHEET NO.	TITLE
C29-6400C	LOG OF SOIL TESTS
J1-4S	FOOTING SCHEDULE
J1-3S	MISC. SECTIONS
J1-2S	FOUND. DETAILS

REFERENCE DRAWINGS

UNCLASSIFIED

[redacted]

K&E NO. 166 6-52

SHEET W-1-17

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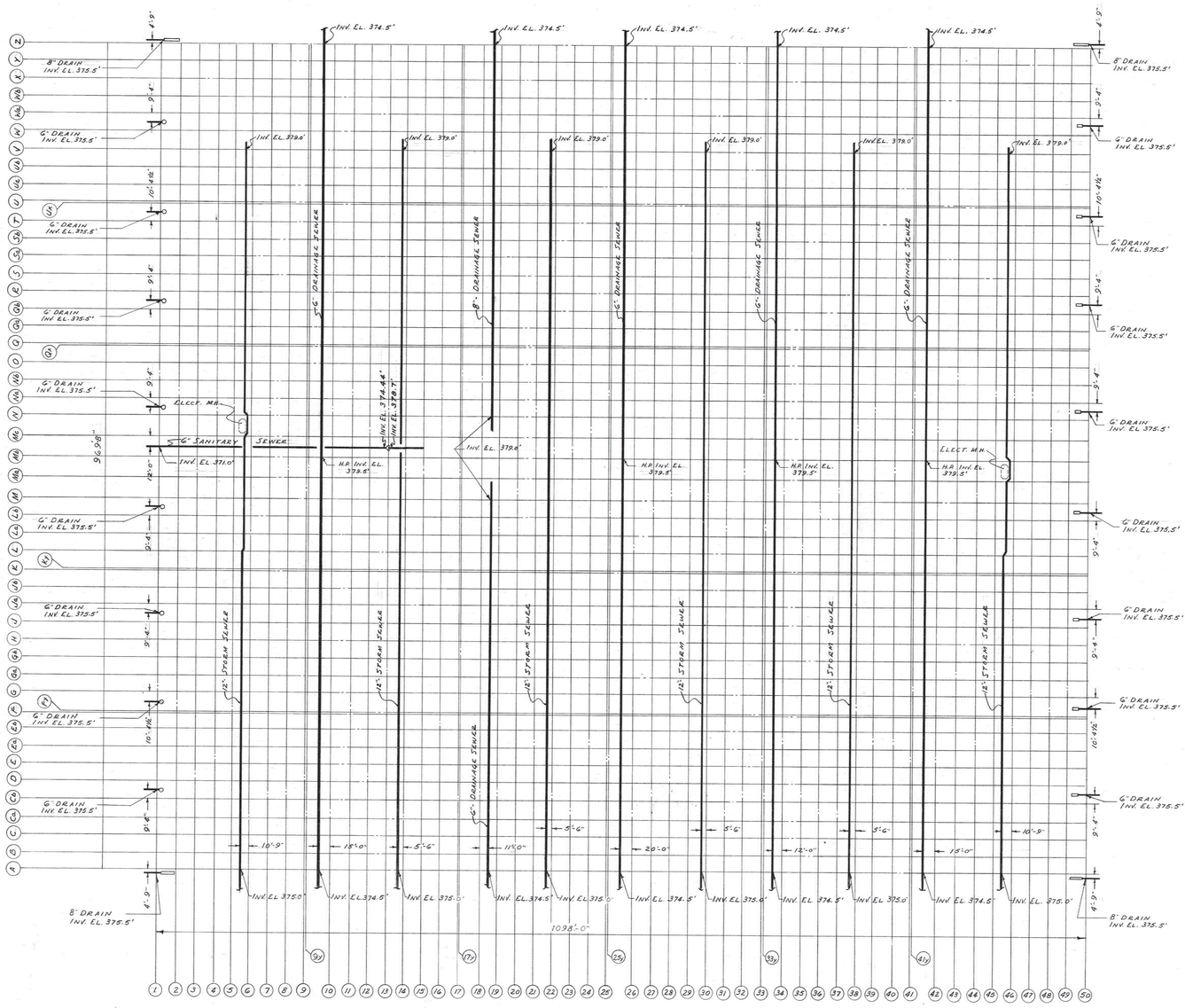

GROUND FLOOR PLAN

SCALE 1/64" = 1'-0"

GROUND FLOOR ELEV. 381'-0"

SECTION INDEX

No.	On Dwg No.	Description
1	L1-14-M	Sump Pump, Vents & Line Recorder S.W.
2	L1-14-M	Sump Pump, Vents & Pit Drains
3	L1-14-M	Sump Vent & Main Vent Arrangement
4	L1-14-M	Sump Vent & Main Vent Arrangement
5	L1-15-M	Trench Drain & Driveway Drain
6	L1-15-M	Track & Trench Drain
7	L1-15-M	Driveway Drain
8	L1-15-M	Track Drain
9	L1-15-M	Trench Drain
10	L1-15-M	Track Drain
11	L1-19-M	Rain Conductor Base
12	L1-16-M	Toilet Room No. 1
13	L1-16-M	Toilet Room No. 2 & 3
14	L1-22-M	C.S.W. Prv. Station
15	L1-22-M	C.S.W. Anchor
16	L1-22-M	Drinking Fountain C.S.W. Connection
17	L1-19-M	Rain Conductor Base
18	L1-22-M	Branch Connection
19	L1-22-M	Hose Bibb in Battery Rm.
20	L1-18-M	Oil Interceptor

PLUMBING LEGEND

———	Drain Line
— — —	Vent Line
—·—	Cold Sanitary Water C.S.W.
—··—	Hot Sanitary Water H.S.W.
C.O.	Clean Out
F.D.	Floor Drain
D.F.	Electric Water Cooler
S.H.	Shower
S.S.	Service Sink
U.R.	Urinal
L.AV.	Lavatory
W.C.	Water Closet
H.W.T.	Hot Water Tank
G.V.	Gate Valve
C.V.	Check Valve
V.	Vent
W.	Waste
DWG.	Drawing
S.W.	Sight Waste
H.P.	High Point
D.F.W.	Drinking Fountain Waste

DRAWING INDEX

No.	Title
L1-1-M	Key Plan
L1-2-M	Underground Drainage
L1-3-M	Underground Drainage
L1-4-M	Underground Drainage
L1-5-M	Underground Drainage
L1-6-M	Underground Drainage
L1-7-M	Underground Drainage
L1-8-M	Sanitary Water System (Ground Floor Plan)
L1-9-M	Sanitary Water System (Ground Floor Plan)
L1-10-M	Water, Vent & Drain Piping (Cell Floor Plan)
L1-11-M	Water, Vent & Drain Piping (Cell Floor Plan)
L1-12-M	Vent & Rain Conductors (Roof Plan)
L1-13-M	Vent & Rain Conductors (Roof Plan)
L1-14-M	Line Recorder & Utilities Room - Piping Details
L1-15-M	Track & Truck Alleys Drainage Details
L1-16-M	Toilet Room Details
L1-17-M	Toilet Room Typical Details
L1-18-M	Miscellaneous Typical Details
L1-19-M	Rain Conductor Typical Details
L1-20-M	Rain Conductor-Riser Details
L1-21-M	Vent Riser Details
L1-22-M	Sanitary Water System Details & Sections
L1-23-M	Sight Waste Drains Riser Details
L1-24-M	Drains & Vent Riser Details
L1-25-M	Drains & Vent Riser Details
L1-26-M	Drains & Vent Riser Details

PLUMBING BILLS OF MATERIAL

Number	Item
C-337-M3	Duplex Sump Pump
C-337-M4	Storage Water Heater

GENERAL NOTES

For Continuation of All Underground Water & Drain Lines See Dwg. No. C-29-6001-6004-C

DETAIL INDEX

No.	On Dwg No.	Description
1.	L1-16-M	Toilet Room No. 1 - Drain & Vent Piping
2.	L1-16-M	Toilet Rooms No. 2 & 3 Drain & Vent Piping
3.	L1-14-M	Line Recorder & Utilities Room
4.	L1-15-M	Trench & Driveway Drains
5.	L1-15-M	Track & Trench Drains
6.	L1-16-M	Toilet Room No. 1 Sanitary Water Piping
7.	L1-16-M	Toilet Rooms No. 2 & 3 Sanitary Water Piping
8.	L1-22-M	Sanitary Water Piping Anchor
9	L1-22-M	Battery Room Water Supply
10	L1-16-M	S. Sink in Mechanical Dept.

REVIEWED FOR CLASSIFICATION
Name
Date
UNCLASSIFIED

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00029382

Rev. No.	Date	Issued For	By	App. Date
RLS 1	8-10-54	As Built		8-10-54
	12-18-52	Construction		
	12-9-52	Approval	LM	12-18-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
KEY - PLAN
UNDERGROUND DRAINAGE

Drawing Approved — Date	Drawing Approved — Date	Drawing Approved — Date
C. J. Steinbeck 12-9-52 Architect Engineer	R. A. Walker Dec. 17-1952 Carbide Carbon Chemical Co.	L. H. Jackson Dec. 18-1952 A.E.C. Engineer

Drawn	Date	Checked	Date	Job
A. Mann / Ray Nix	9-3-52	H.L.K.	12-1-52	51-163 P
Inspection	Date	Chief	Date	
	12-8-52		12-12-52	

Project	Building	Sheet
"C" Kentucky Area	C-337	L1-1-M

Sheet No.	Title
L1-5000M — L1-5033M	Mechanical - Coolant System
L1-4000M Thru L1-4071M	Mechanical - Rg. Aux. Services
L1-3000M Thru L1-3083M	Mechanical - Instrumentation
L1-1000M Thru L1-1025M	Mechanical - P.G. Piping
L1-2000M Thru L1-2031M	Mechanical - Recirc. Water
L1-1001M Thru L1-1131M	Mechanical - Htg. & Vent.
L1-7000 E	Electrical
L1-1 Thru L1-1399 S	Structural
L1-1 Thru L1-3060 A	Architectural

Reference Drawings

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MICROFILMED

K&E NO. 166 2.52

SHEET LI-1-S

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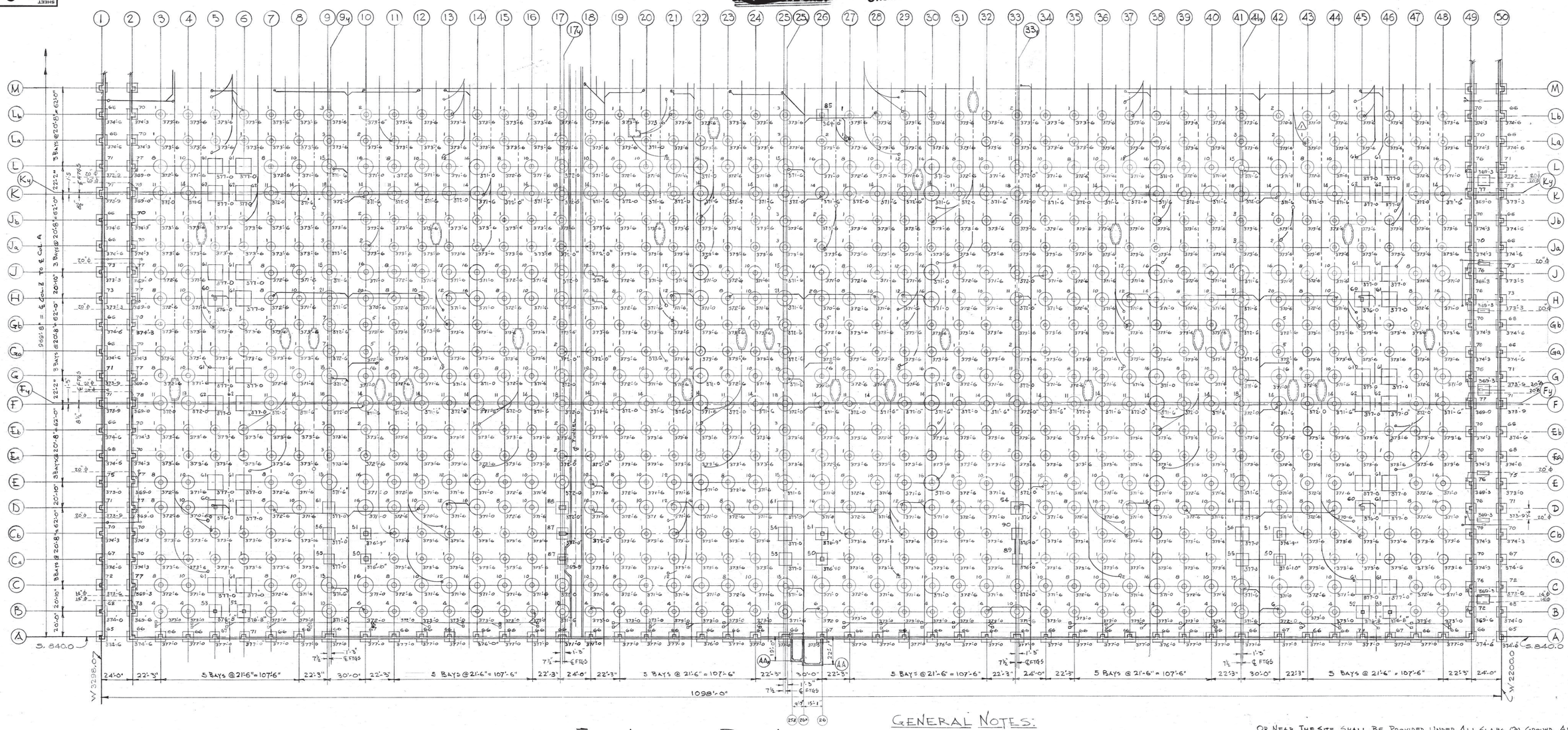

FOUNDATION PLAN

SCALE 32" = 1'-0"

N

LEGEND

- ELECTRIC MANHOLES, (FOR LOCATION SEE ELECT. DWGS.) FOR DETAILS SEE DWG. LI-39-S
- ELECTRIC CONDUIT, (SEE ELECT. DWGS.)
- WATER LINES (SEE MECH. DWGS.)
- DRAIN LINES (SEE MECH. DWGS.)
- CONCRETE REINFORCING FOR WATER PIPE (FOR DETAILS SEE DWG LI-5-S)
- FTGS. PER G&V PURCHASE ORDERS #6345 & #6367.

V
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GENERAL NOTES:

BEFORE ANY CONCRETE IS POURED IN ANY AREA, CHECK ALL ARCH., MECH., AND ELECT. DRAWINGS, AS WELL AS ALL PROCESS PIPING DRAWINGS, FOR OPENINGS, DUCTS, SLEEVES, CURB ANGLES, ETC., WHICH MUST BE PROVIDED BEFORE WORK IS BEGUN. THE CONCRETE CONTRACTOR IS RESPONSIBLE FOR THE PLACING OF ALL BOLTS, SLEEVES, AND OTHER BUILT IN ITEMS OCCURING IN THE WORK, AND SHALL COOPERATE WITH ALL TRADES SO THAT SUCH WORK IS ACCURATELY PLACED IN THE FORMS.

UNLESS OTHERWISE NOTED, ALL CONCRETE FOR THIS JOB SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 2500#/□" IN 28 DAYS.

ALL FOUNDATION WALLS AND FOOTINGS TO EXTEND 4'-0" MINIMUM BELOW FINISH GRADE OR ORIGINAL GRADE UNLESS NOTED.

FOR LOCATION OF BENCH MARKS, SEE SITE DRAWINGS.

ALL KEY SIZES IN WALL CONSTRUCTION JOINTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

2x3 FOR 8" & 10" WALLS; 2x4 FOR 12" WALL.

ALL REINFORCEMENT SHALL BE INTERMEDIATE GRADE BILLET STEEL. DEFORMATIONS ARE TO CONFORM TO ASTM SPECIFICATION A-305.

BEND BARS A MINIMUM OF 2'-6" AROUND CORNERS.

LAP BARS 40 DIAMETERS.

UNLESS OTHERWISE SHOWN, PROVIDE 2-½" ϕ, DIAGONAL BARS, EACH FACE, AT EACH CORNER OF OPENINGS IN BASEMENT SLABS & FOUNDATION WALLS.

CHAMFER ALL EXPOSED CORNERS OF CONCRETE CONSTRUCTION 1"x 1", EXCEPT WHERE CONCRETE ABUTS MASONRY.

ALL CONTROL JOINTS IN WALLS TO BE ON ℄ OF BAY AS INDICATED ON FOUNDATION PLAN & SECTIONS.

SUPPORTED SLABS & EQUIPMENT FOUNDATIONS, MISC. PADS, PITS, & MANHOLE WALLS, MAX. SIZE OF AGGREGATE IS 1".

SLABS ON GROUND, MAX. SIZE OF AGGREGATE IS 1½"

FOOTINGS, PIERS, GRADE WALLS, MAX. SIZE OF AGGREGATE IS 1½"

SEE STRUCTURAL STEEL DRAWINGS, FOR SIZE, SPACING, AND ORIENTATION OF ANCHOR BOLTS.

WHEREVER A SOIL BEARING VALUE OF 5000#/□' DOES NOT EXIST AT A GIVEN ELEVATION FOR BOTTOM OF FOOTING, THE FOOTING IS TO BE CONTINUED DOWN UNTIL SUCH A BEARING VALUE IS ATTAINED.

A 9" MIN. COMPACTED WORKING SURFACE, CONSISTING OF A NATURAL MIXTURE OF GRAVEL, SAND, & BINDER, SUCH AS THE LAFAYETTE STRATUM EXISTING ON OR NEAR THE SITE, SHALL BE PROVIDED UNDER ALL SLABS ON GROUND. AREA IS TO BE GRADED & COMPACTED TO ELEV 380'-6" BEFORE ANY FOOTINGS ARE CONSTRUCTED. MATERIAL & COMPACTION SHALL MEET THE APPROVAL OF THE ARCH.-ENG.

BACKFILL OVER FOOTINGS TO BE APPROVED FILL MATERIAL CONSISTING OF SUITABLE MATERIALS OBTAINED DURING EXCAVATION, OR NEW MATERIAL SUCH AS THE LAFAYETTE DEPOSIT. COMPACTION TO BE 95% OF PROCTOR DENSITY. SEE SPEC'S.

WHERE EXCAVATION FOR DUCTS, PIPES, MANHOLES, ETC. HAS BEEN CARRIED PARTIALLY THROUGH THE PRESSURE ZONE OF COLUMN FTGS.; BACKFILL SHALL BE LEAN CONCRETE. THE PRESSURE ZONE IS TO BE ASSUMED AS THAT MASS OF SOIL CONTAINED WITHIN A FRUSTUM OF A PYRAMID OR CONE, SUBTENDING THE FTG. AND POSSESSING SIDES SLOPING AT AN ANGLE OF 1½ HORIZ. TO 1 VERT.

FOUNDATION WALLS AND EXTERIOR PIERS ARE TO BE POURED MONOLITHICALLY.

FOR CELL FLOOR PLANS, NOTES, DETAILS, PIERS, OPENINGS, & REINFORCEMENT, SEE DRAWINGS LI-15S TO LI-31S INCLUSIVE.

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DNS 3-2-98
Initials Date
UNCLASSIFIED

CLASSIFICATION CANCELLED (OR CHANGED TO)
(INSERT APPROPRIATE CLASSIFICATION)
BY AUTHORITY OF
(PERSON AUTHORIZING CHANGE IN CLASSIFICATION)
BY
(ESIGNATURE OF PERSON MAKING THE CHANGE, AND DATE THEREOF)

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
3	12-8-54	AS BUILT.	RMC	
2	10-12-52	REV. AS PER DEV. REQUEST NO. S-43		
	9-22-52	CONSTRUCTION	EJM	
	8-27-52	APPROVAL	CAG	9-12-52
	7-24-52	BIDS FOR BORED-IN FOOTINGS		9-12-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
FOUNDATION PLAN
SOUTH PART

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C.J. Bright 8-27-52 CAG ARCHITECT ENGINEER	R. A. WALKER 9-12-52 CARBIDE CARBON CHEMICAL CO.	C. N. JACKSON 9-12-52 A. E. C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
T. KRUSHWICK		R. HELD	8/23/52	51-163-P

IN CHARGE	DATE	CHIEF	DATE
S. DINNER		C.A. GIFFELS	

PROJECT NO.	BUILDING	SHEET
KENTUCKY AREA	C337	LI-1-S

SHEET NO.	TITLE
LI-2-S	FOUNDATION PLAN NORTH PART
LI-3-S	SCHEDULE OF FOOTINGS

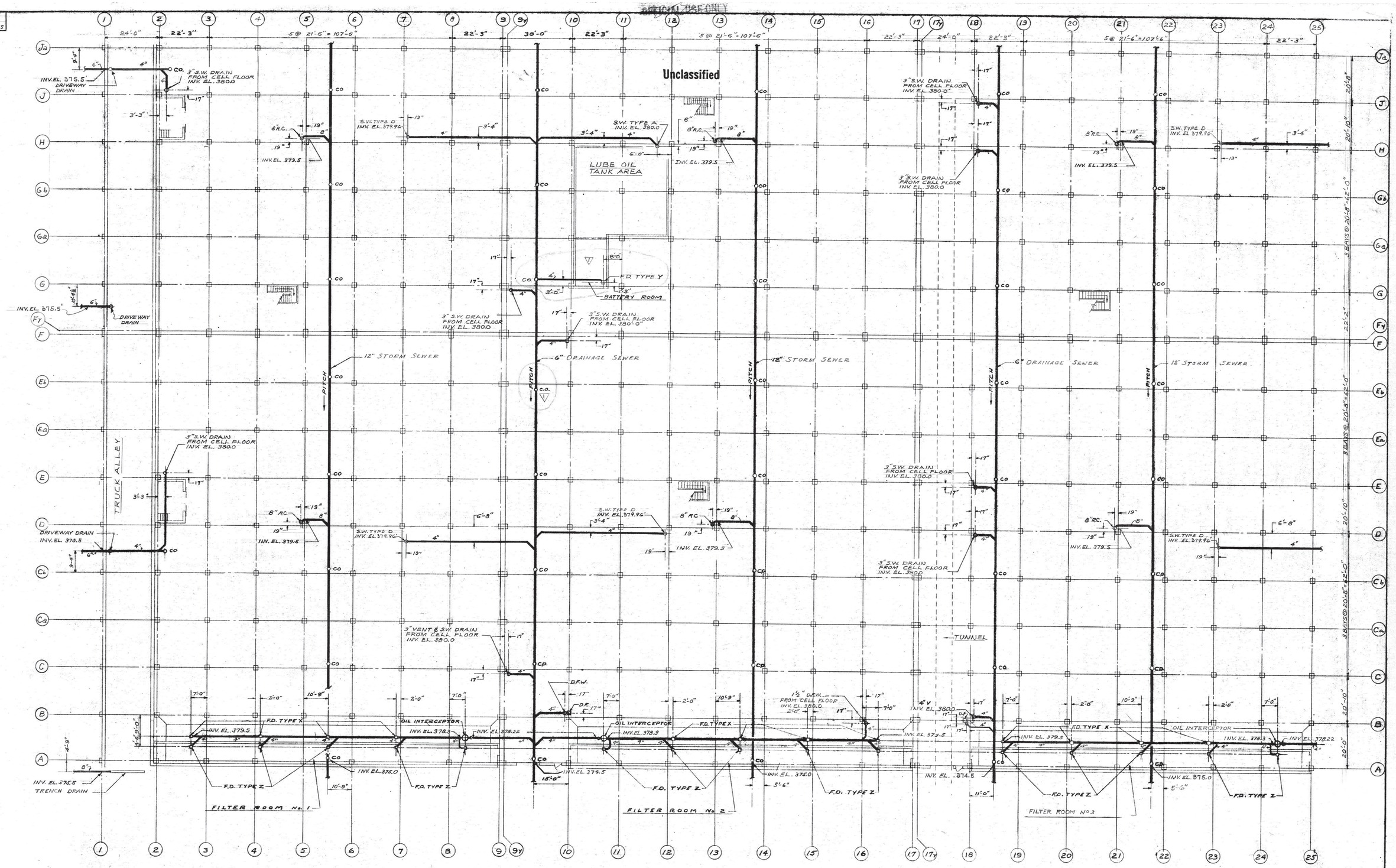
REFERENCE DRAWINGS

~~OFFICIAL USE ONLY~~

MICROFILMED

SECTION USE ONLY

SHEET L1-2-M



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"

GROUND FLOOR EL. 381.0

BT Images, Inc.
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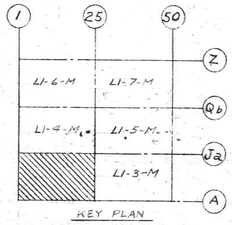

REVIEWED FOR CLASSIFICATION
KS #4359 12-15-97
Initials Date

UNCLASSIFIED

Unclassified

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
2	8-10-54	AS BUILT		8-10-54
1	4-8-53	BATTERY RM. F.D. RELOCATED CLEANOUT RELOCATED	LM	N.R.
	12-18-52	CONSTRUCTION		12-18-52
	12-9-52	APPROVAL	LM	12-18-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Steighelen 12-9-52 ARCHITECT ENGINEER	R. A. WALKER Dec. 17-1952 CARBIDE CARBON CHEMICAL CO.	L. H. JACKSON Dec. 18-1952 A.E.C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
RAY NIX R.W.C.	7-25-52	H.J.K.	11-24-52	51-163P
IN CHARGE	DATE	CHIEF	DATE	SCALE
R. Maurer	12-9-52	Rauch	7/9/52	
PROJECT "C" KENTUCKY AREA	BUILDING C-337		SHEET L1-2-M	

SHEET NO.	TITLE
L1-1-M	PLUMBING - KEY PLAN
REFERENCE DRAWINGS	

MICROFILMED

K&E NO. 166 2.52

SHEET LI-2-S

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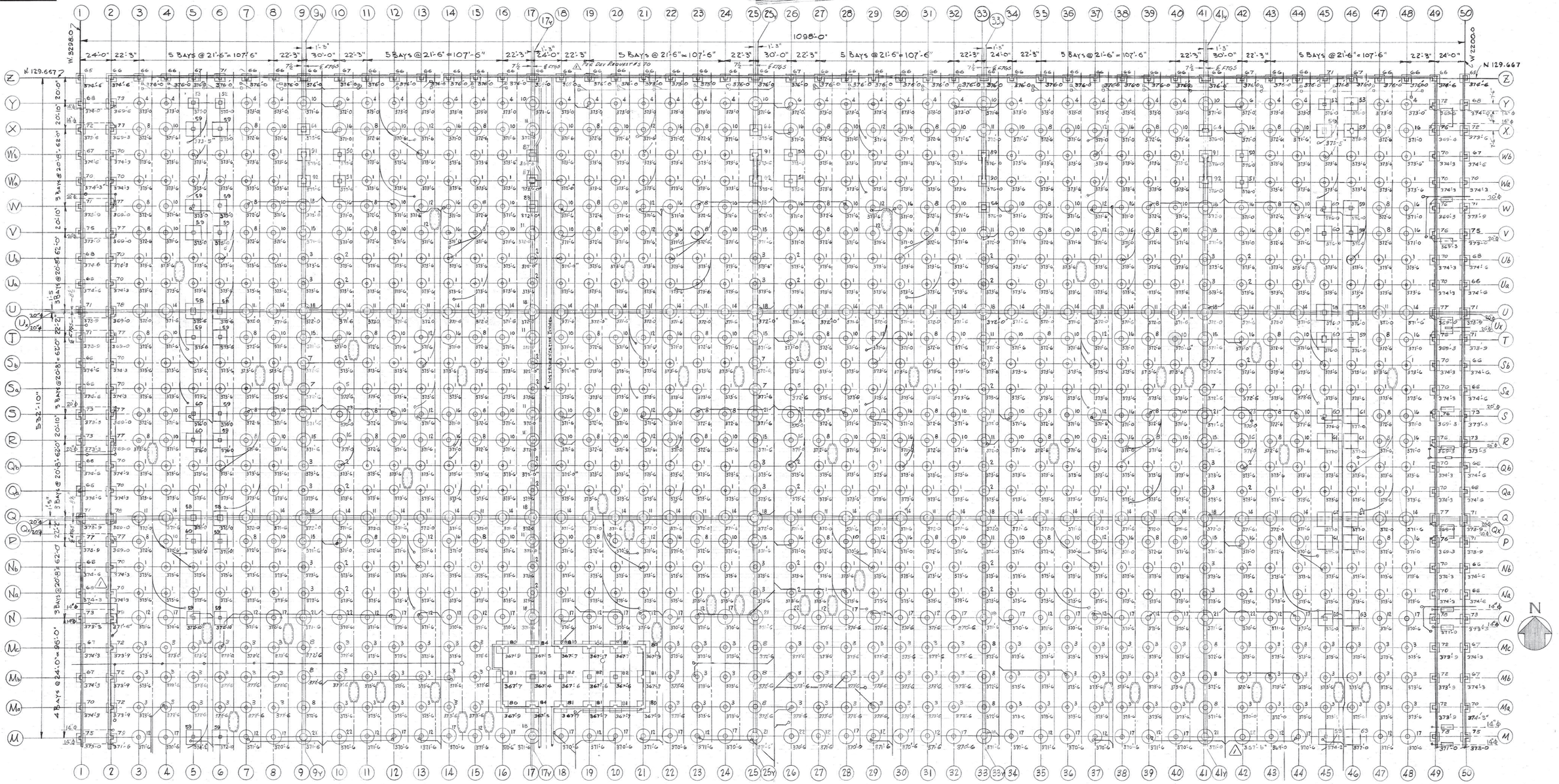

FOUNDATION PLAN – NORTH PART

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Initials
3-2-98
Date
UNCLASSIFIED

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CLASSIFICATION CANCELLED (OR CHANGED TO)
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BY AUTHORITY OF
(PERSON AUTHORIZING CHANGE IN CLASSIFICATION)
BY
(SIGNATURE OF PERSON MAKING THE CHANGE)
AND DATE THEREOF)

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REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
RMC 2	12-8-54	AS BUILT		
1	10-12-52	REV. AS PER DEV. REQ. No. S-43		
	7-15-52	CONSTRUCTION	ABH	
	5-27-52	APPROVAL	CAG	
	7-24-52	BIDS FOR BORED-IN FOOTINGS		9-11-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
FOUNDATION PLAN NORTH PART

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Stigleder 10-27-52 CAG	R. A. WALKER 9-11-52	L. H. JACKSON 9-11-52
ARCHITECT ENGINEER	CARBIDE CARBON CHEMICAL CO.	A. E. C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
C.S. & T.S.		A.L. HELD	8/27/52	51-163-P
IN CHARGE: S.E. DINNER	DATE	CHIEF: C.A. GIFFELS	DATE	

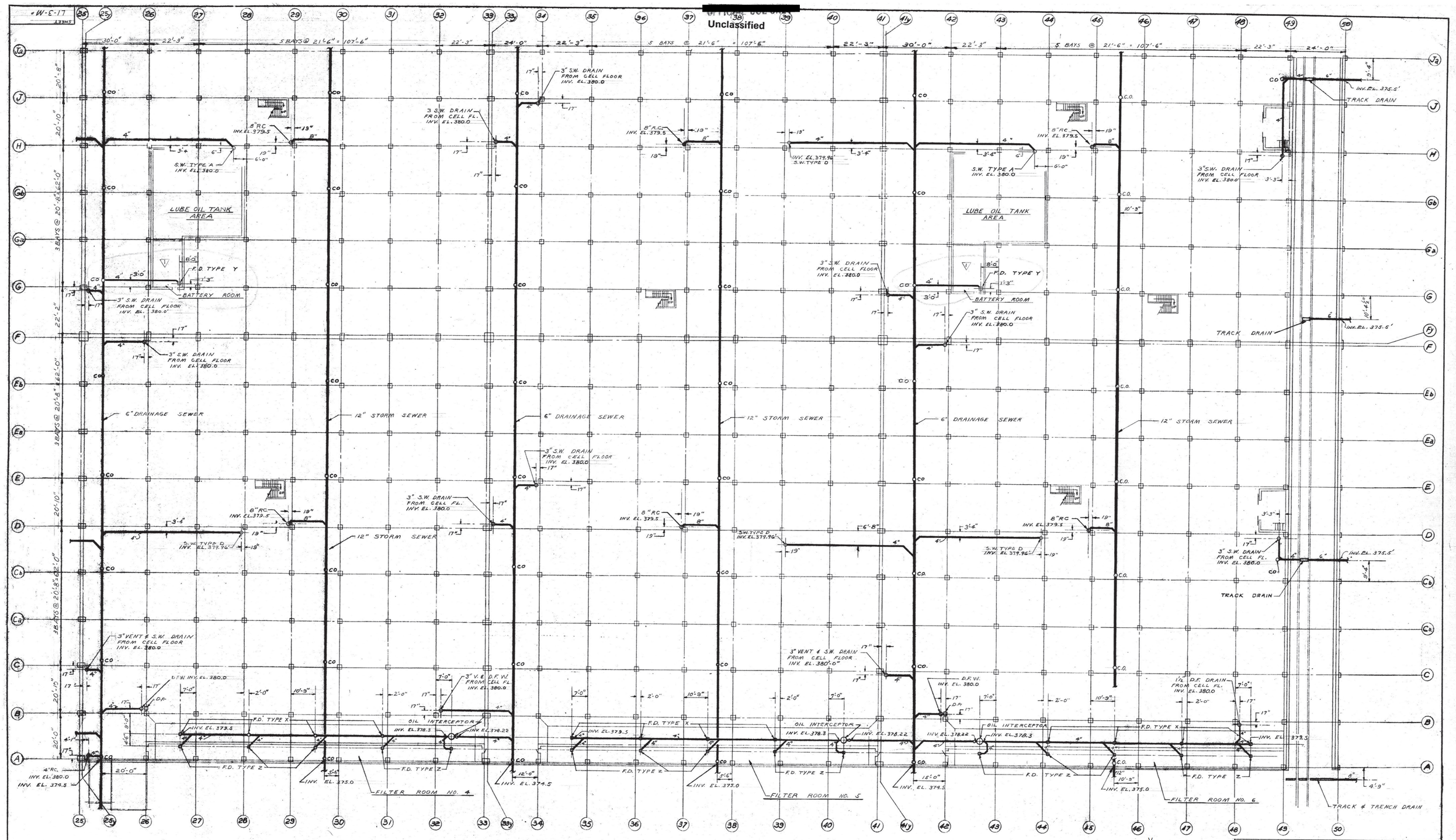
PROJECT "C"	BUILDING	SHEET
KENTUCKY AREA	C 337	LI-2-S

SHEET NO.	TITLE
LI-1-S	FOUNDATION PLAN SOUTH PART
LI-3-S	SCHEDULE OF FOOTINGS

REFERENCE DRAWINGS

MICROFILMED

Unclassified



GROUND FLOOR PLAN
SCALE 1/16" = 1'-0"
GROUND FLOOR ELEV. 381.0'

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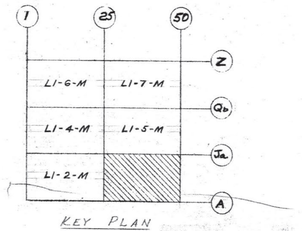
Name
2-2-98
Date
UNCLASSIFIED



KEY PLAN

Unclassified

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
		4/8/53		
2	3-10-54	As Built	Pa	3-10-54
1	4-8-53	Battery Rm F.D. Relocated	LM	NR
	12-18-52	Construction	Pa	
	12-9-52	APPROVAL	LM	12-18-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Steigleder 12-9-52	R. A. WALKER Dec. 17-1952 CARBIDE CARBON CHEMICAL CO.	L. H. JACKSON Dec. 18-1952 A. E. C. ENGINEER
ARCHITECT ENGINEER		

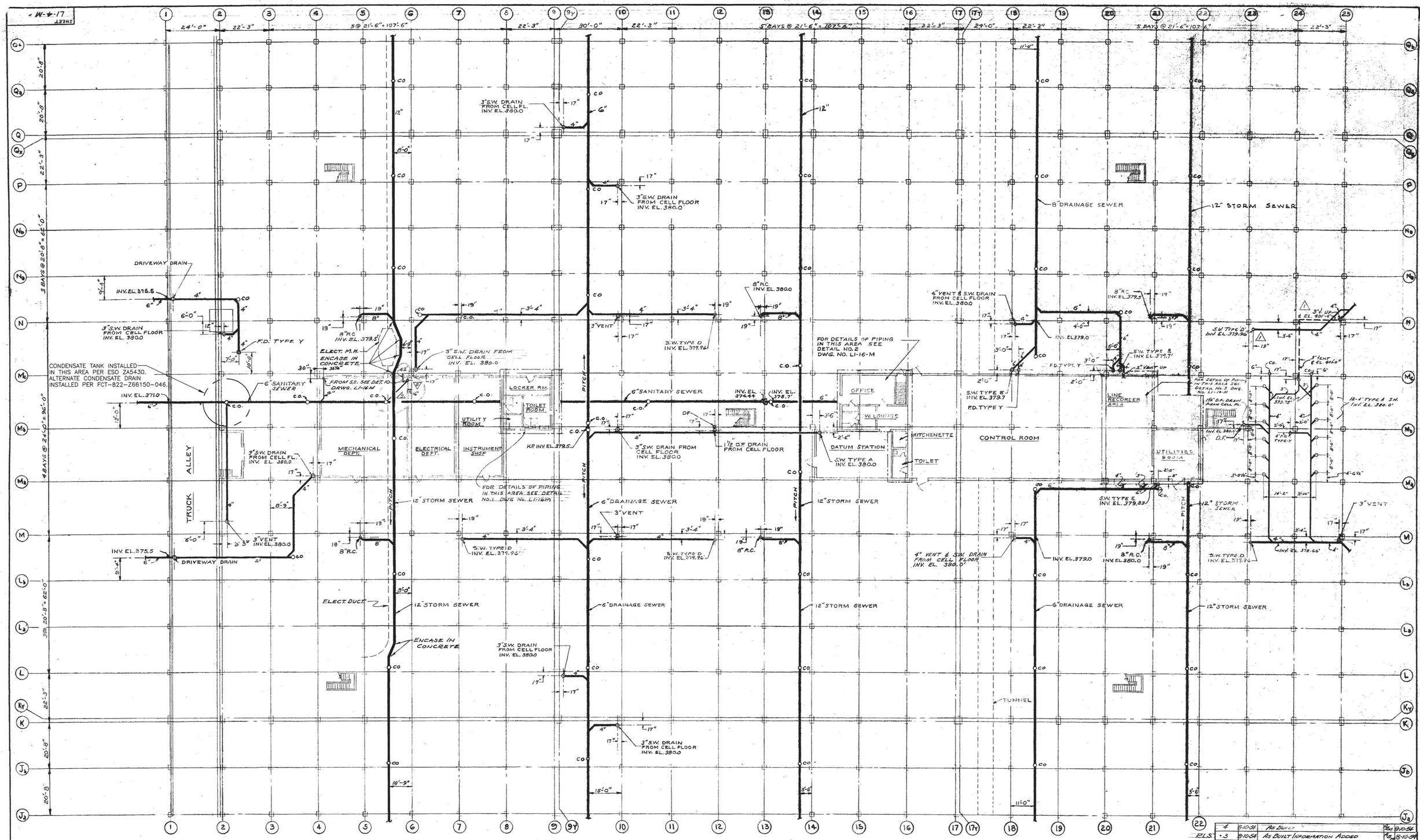
DRAWN	DATE	CHECKED	DATE	JOB
RAY NIX R.W.C.	7-26-52	H. J. K.	11-25-52	51-163P
IN CHARGE	DATE	CHIEF	DATE	
L. Maurer	12-9-52	Rauch	12/9/52	

PROJECT	BUILDING	SHEET
"C" KENTUCKY AREA	C-337	LI-3-M

SHEET NO.	TITLE
LI-1-M	PLUMBING - KEY PLAN

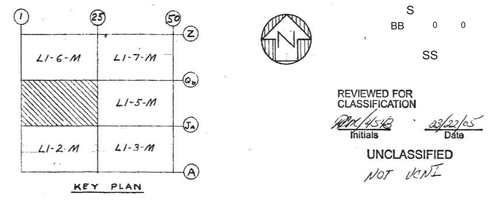
REFERENCE DRAWINGS

MICROFILMED



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"
GROUND FLOOR ELEV. 381.0



KEY PLAN

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Initials Date
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NOT VENI

REV. 5		
DRW.	J. Howard	3-17-05
CHKR.	N/A	
R.E.D.		03/18/05
T. R.	N/A	
APPD.		3/21/05
DRAWING APPROVALS		DATE

PRIORITY 3

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
4	8-10-54	As Built		8-10-54
3	8-10-54	As Built Information Added		8-10-54
2	3-25-53	S.S. Drain Added	LM	N.R.
1	1-19-53	Relocated S.W. at Col. 23N Added Elev. To Vent At Col. 25N	LM	1-27-53
	12-18-52	Construction		
5	—	AS-BUILT ENTIRE DWG. FOR ESO ZA5430		

UNITED STATES
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GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

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DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Stoughton 12-9-52 ARCHITECT ENGINEER	R. A. WALKER Dec. 17-1952 CARBIDE CARBON CHEMICAL CO.	L. H. JACKSON Dec. 18-1952 A. E. C. ENGINEER

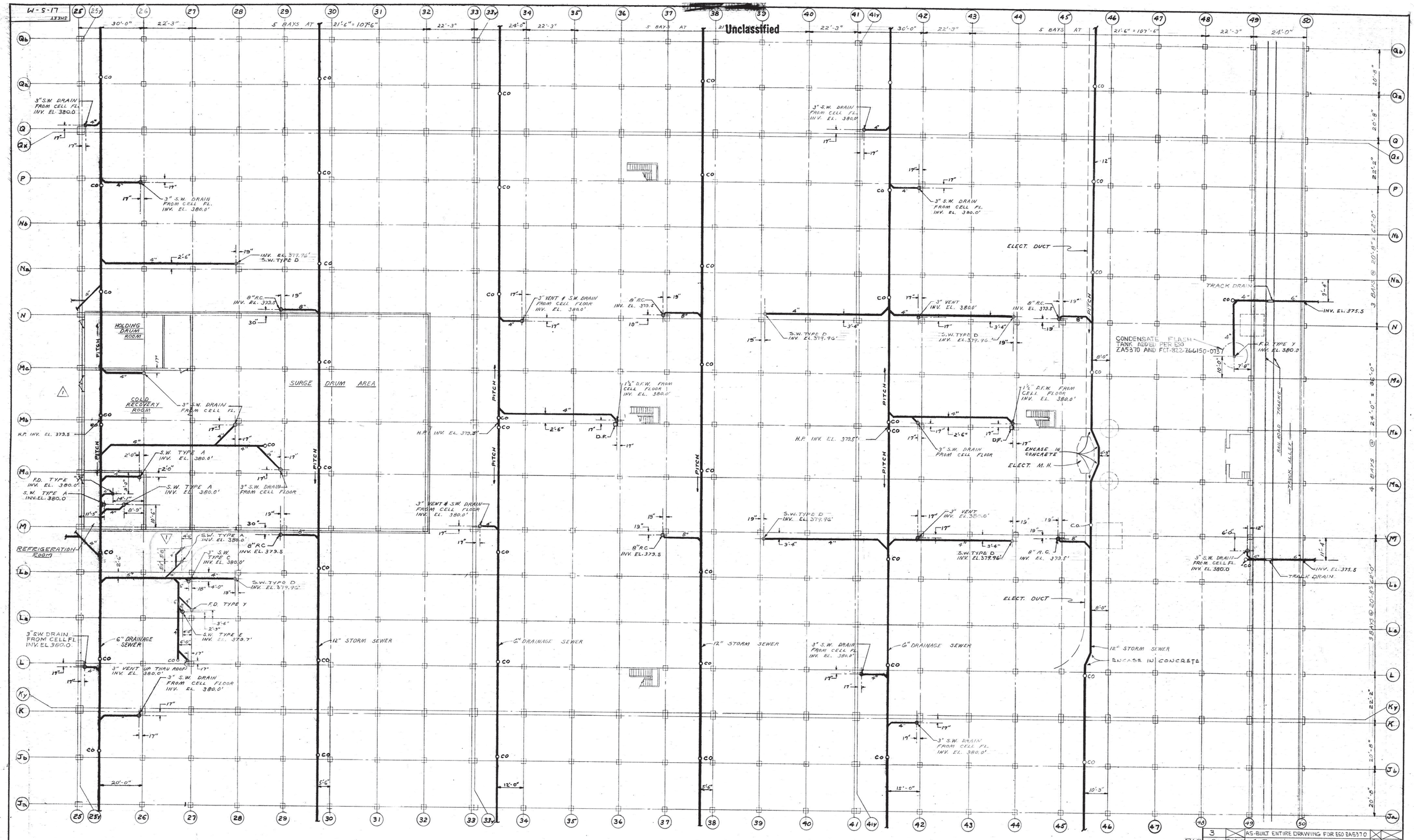
DRAWN	DATE	CHECKED	DATE	JOB
RAY NIX	A.W.C. 7-28-52	H. J. K.	11-26-52	51-163P
IN CHARGE	DATE	CHIEF	DATE	
D. Mauser	12-9-52	Rauch	12/9/52	
PROJECT "C" KENTUCKY AREA	BUILDING C-337	SHEET LI-4-M		

SHEET NO.	TITLE
LI-1-M	PLUMBING - KEY PLAN

REFERENCE DRAWINGS

W-5-17
SHEET

Unclassified



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"
GROUND FLOOR EL. 381.0

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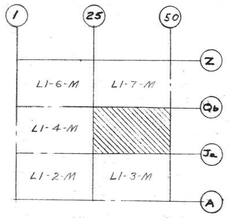

KEY PLAN

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Date
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NOT NONE

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REV	DRW	CHKR	RED	TR	APPD	DATE
3	MG				ILF	12/6/64

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
3		AS-BUILT ENTIRE DRAWING FOR ESO ZA5370		
2	8-10-59	As Built		8-10-59
1	7-31-59	4" DRAIN LINE REMOVED S.W. ADDED	LM	N.R.
	12-18-52	CONSTRUCTION	RB/N	
	12-9-52	APPROVAL	LM	12-18-52

R.L.S.

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~~Downgraded~~
~~Auth. Chief Ky. Rev. 2/17/75~~

PRIORITY 3

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Steigleder 12-9-52	R.A. WALKER DEC. 17-1952	L.H. JACKSON DEC. 18-1952
ARCHITECT ENGINEER	CARBIDE CARBON CHEMICAL CO.	A. E. C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
RAY NIX	R.W.C. 7-28-52	H. J. K.	11-28-52	51-163P

IN CHARGE	DATE	CHIEF	DATE
L. Milewski	12-9-52	Rauch	12/9/52

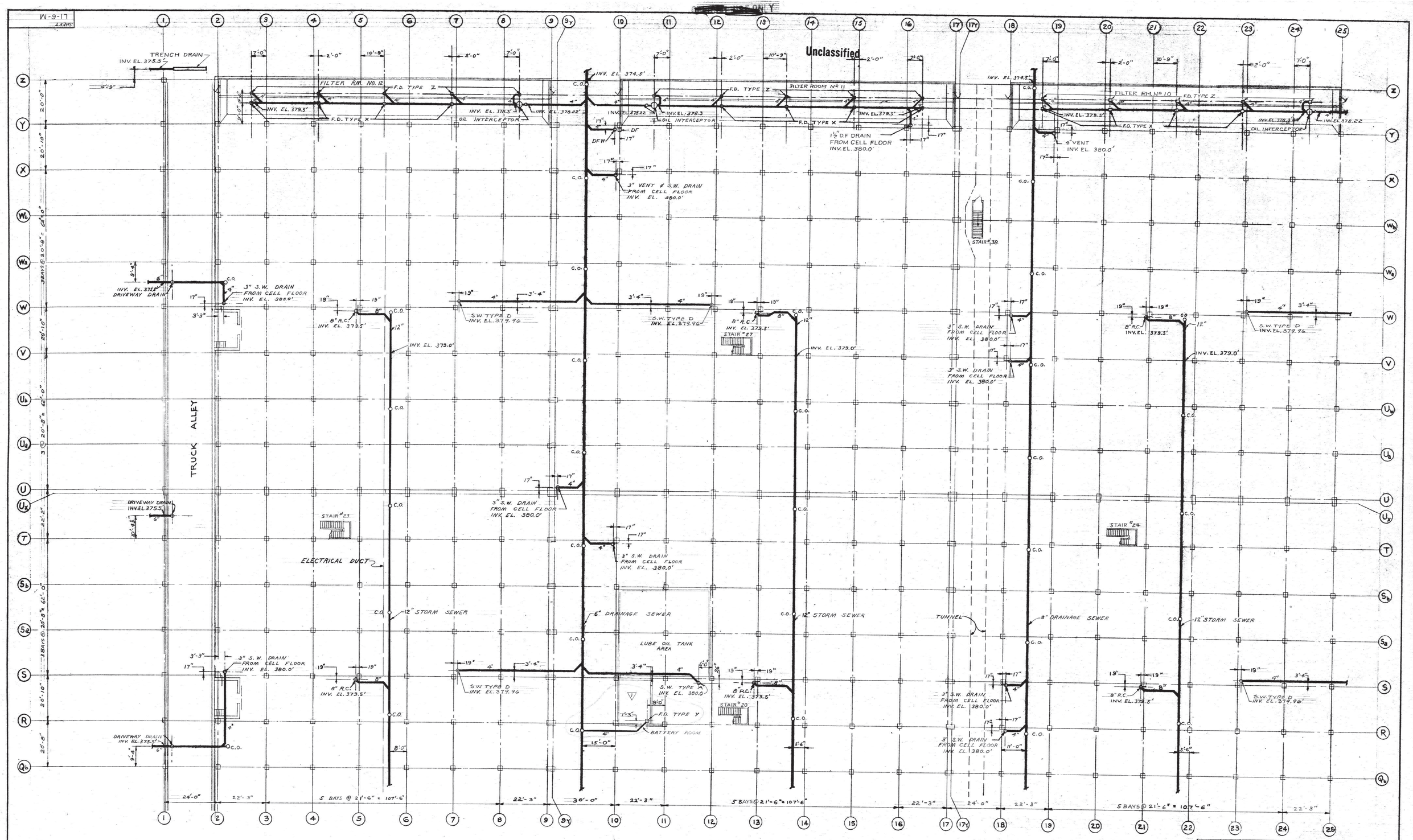
PROJECT	BUILDING	SHEET
KENTUCKY AREA "C"	C-337	L1-5-M

L1-1-M	PLUMBING - KEY PLAN
SHEET NO.	TITLE
REFERENCE DRAWINGS	

MICROFILMED

[redacted]

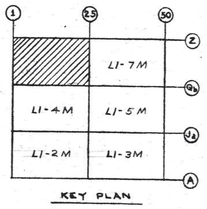
Unclassified



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"

GROUND FLOOR EL. = 381.0'



KEY PLAN

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REVIEWED FOR CLASSIFICATION
Initials: [illegible] Date: 12-15-97
UNCLASSIFIED

Unclassified

[redacted]

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
2	8-10-54	AS BUILT		8-10-54
1	4-2-53	BATTERY RM. F.D. RELOCATED	LM	NR
	12-19-52	CONSTRUCTION		
	12-9-52	APPROVAL	LM	12-18-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Steigelder 12-19-52 ARCHITECT ENGINEER	R. A. WALKER Dec. 17-1952 CARBIDE CARBON CHEMICAL CO.	L. H. JACKSON Dec. 18-1952 A.E.C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
K. J. MEYERS	7-23-52	H. J. K.	11-21-52	51-163 P

IN CHARGE	DATE	CHIEF	DATE
J. Meurer	12-9-52	Zeuch	12/17/52

PROJECT	BUILDING	SHEET
"C" KENTUCKY AREA	C-337	LI-6-M

SHEET NO.	TITLE
LI-1-M	PLUMBING - KEY PLAN

REFERENCE DRAWINGS

[redacted]

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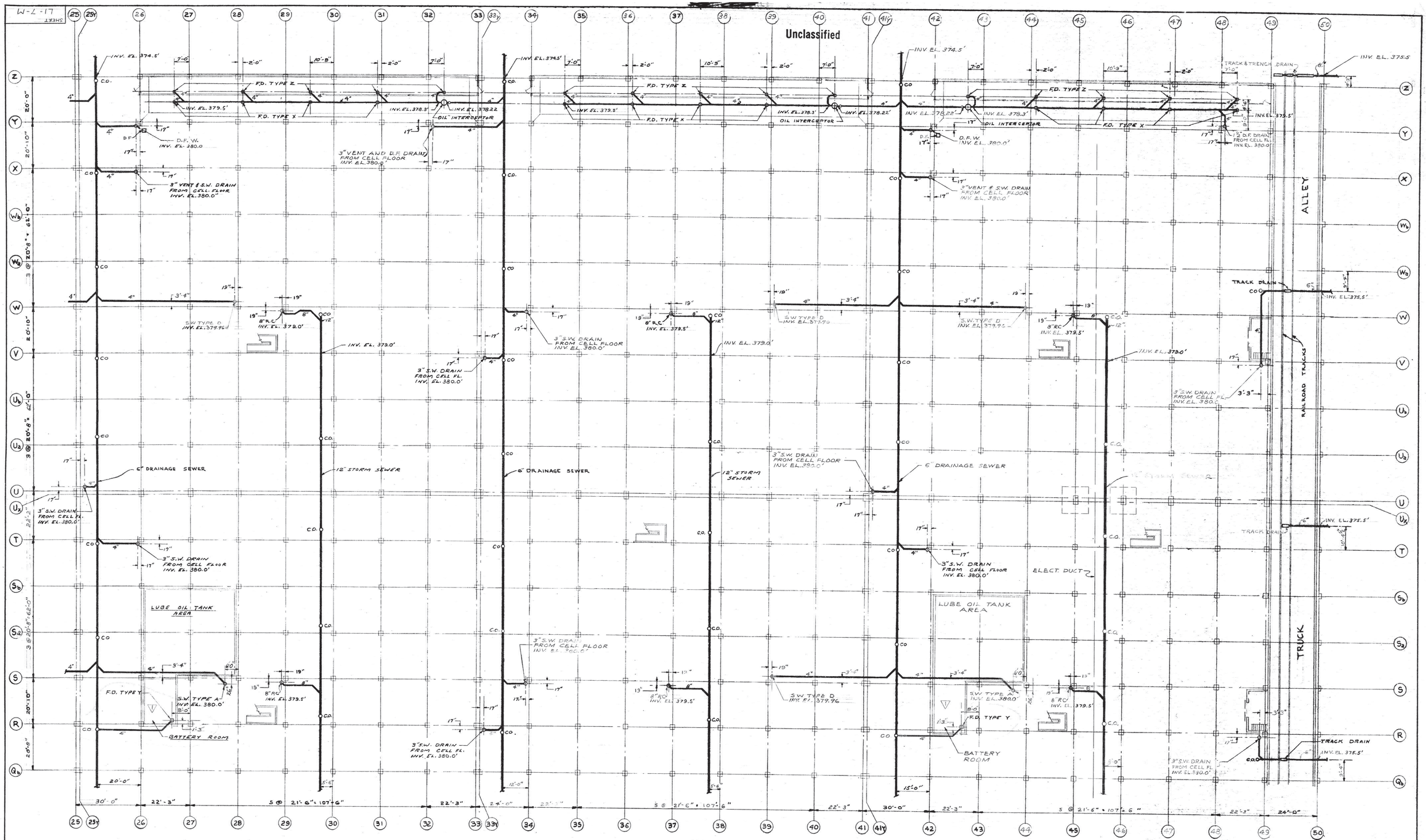
Unclassified



GROUND FLOOR PLAN

SCALE 1/16" = 1'-0"

GROUND FLOOR EL. 381.0'

REVIEWED FOR CLASSIFICATION

Initials

12-15-57

Date

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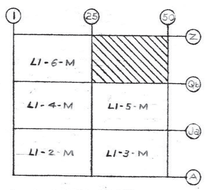

KEY PLAN

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Unclassified

REV. NO.	DATE	ISSUED FOR	BY	APP. DATE
2	8-10-54	As Built		8-10-54
1	4-5-53	Battery Rm F.D. Relocated	LM	N.Z.
	12-18-52	Construction		
	12-9-52	Approval	LM	12-18-52

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
PLUMBING
UNDERGROUND DRAINAGE

DRAWING APPROVED — DATE	DRAWING APPROVED — DATE	DRAWING APPROVED — DATE
C. J. Steigleder 12-9-52 CJS ARCHITECT ENGINEER	R.A. WALKER Dec. 17-1952 CARBIDE CARBON CHEMICAL CO.	L.H. JACKSON Dec. 18-1952 A.E.C. ENGINEER

DRAWN	DATE	CHECKED	DATE	JOB
RAY NIX	7-23-52	H.J.K.	12-1-52	51-163P

IN CHARGE	DATE	CHIEF	DATE	REV.
A. Meurer	12-9-52	Lausch	12-9-52	

PROJECT	BUILDING	SHEET
"C" KENTUCKY AREA	C-337	LI-7-M

SHEET NO.	TITLE
LI-1-M	PLUMBING - KEY PLAN

REFERENCE DRAWINGS

MICROFILMED