WAR DEPARTMENT

CORPS OF ENGINEERS, U. S. ARMY

RESTRICTED

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"		6199 - 372	WATER CLOSET PARTITIONS, TOILET AND SHOWER TRIMMINGS	
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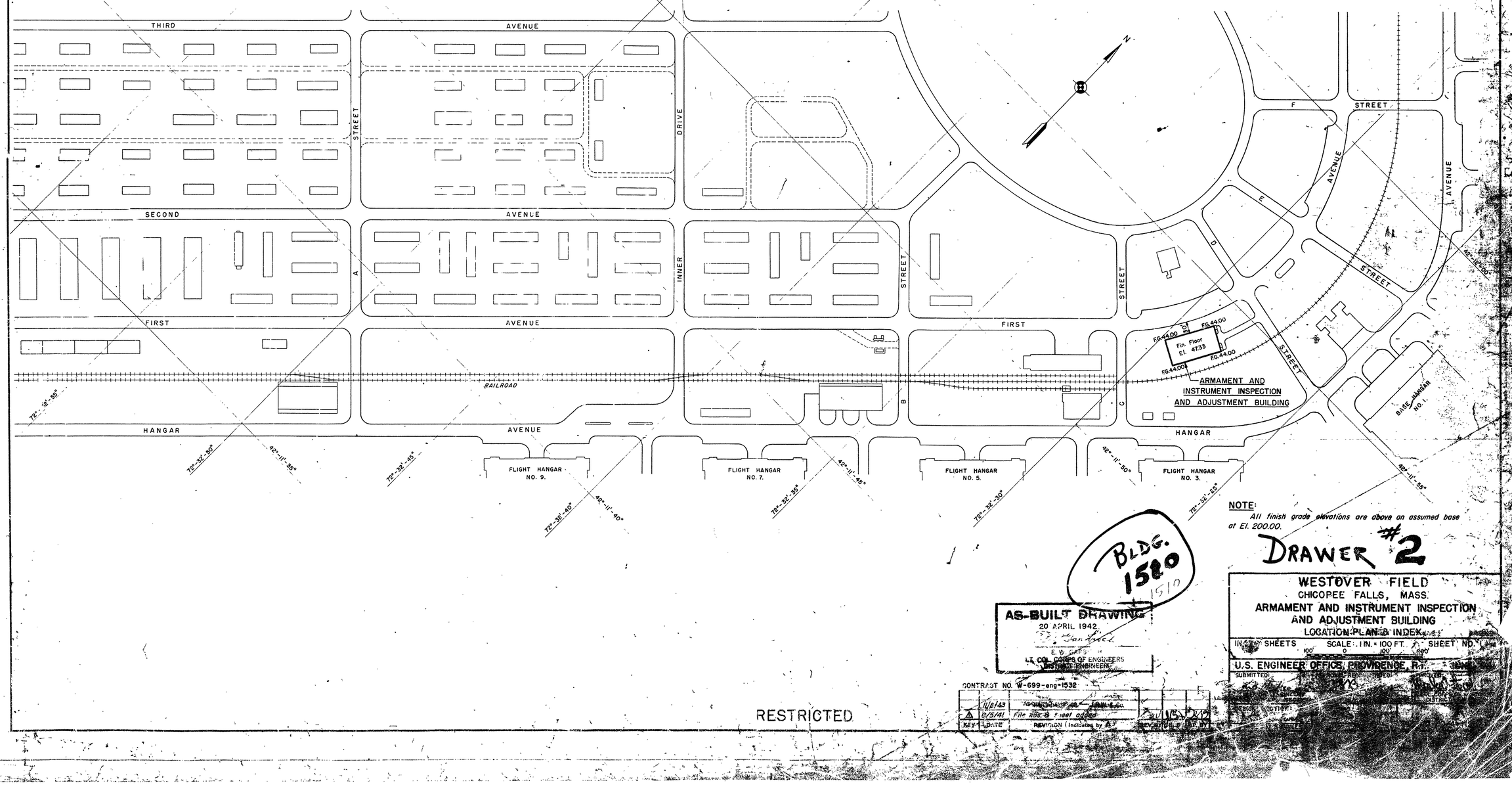
"	8	6900 - 1028	STRUCTURAL ROOF FRAMING PLAN	WO-4-1141
"	9		STRUCTURAL FOOTING PLAN	WO-4-1142
REVISED	10	6905 - 480	DETAILS OF MECHANICAL EQUIPMENT ROOM	WO-4-1143
"	11		AIR CONDITIONING DETAILS	WO-4-1144
NEW SHEET	12		MECHANICAL EQUIPMENT - ROOM LAYOUT	WO-4-2005
"	13		LAYOUT OF CONSTRUCTION AND CONTROL JOINTS	WO-4-2006

NOTE

DWG. NO. — CHANGE

7199-375 — DETAILS NO 1, 2, 3, 4, 5, 6 & 7 ARE DELETED.



NOTE:
All finish grade elevations are above on assumed base at El. 200.00.

DRAWER #2

BLDG. 1510

AS-BUILT DRAWING
20 APRIL 1942.
E. W. DATE
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

CONTRACT NO. W-699-eng-1532

KEY	DATE	REVISION (Indicated by Δ)	DRAWN	TRACED	CHECKED
	11/8/43	As-built drawing			
Δ	8/5/41	File nos. & 1 seat added			

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT AND INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
LOCATION PLAN & INDEX

INDEX SHEETS — SCALE: 1 IN. = 100 FT. — SHEET NO. 1

U.S. ENGINEER OFFICE, PROVIDENCE, R.I.

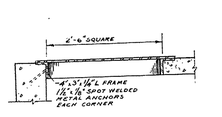
SUBMITTED: — RECOMMENDED: — APPROVED:

RESTRICTED

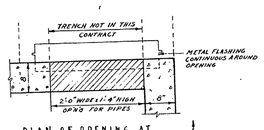
provided herein.

WAR DEPARTMENT

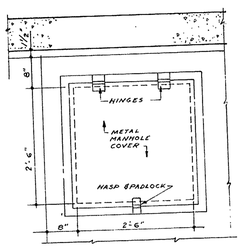
CORPS OF ENGINEERS, U.S. ARMY



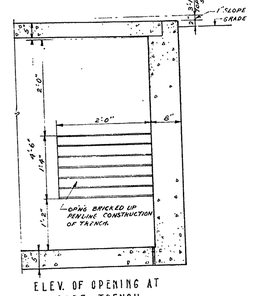
SECT THRU MANHOLE



PLAN OF OPENING AT PIPE TRENCH

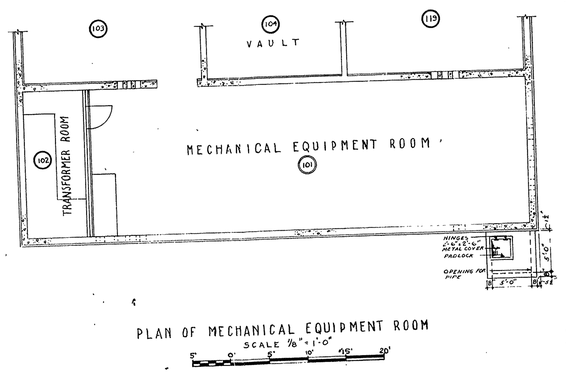


MANHOLE COVER

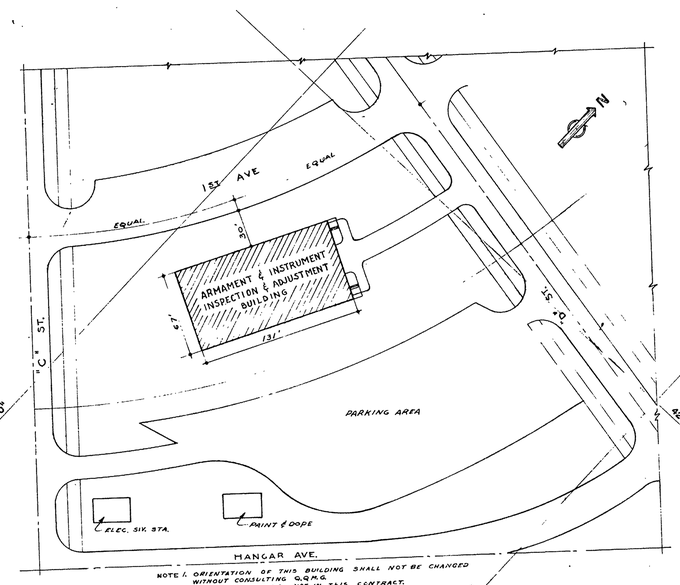


ELEV. OF OPENING AT PIPE TRENCH

STEAM PIT DETAILS
SCALE 3/4" = 1'-0"



PLAN OF MECHANICAL EQUIPMENT ROOM
SCALE 1/8" = 1'-0"

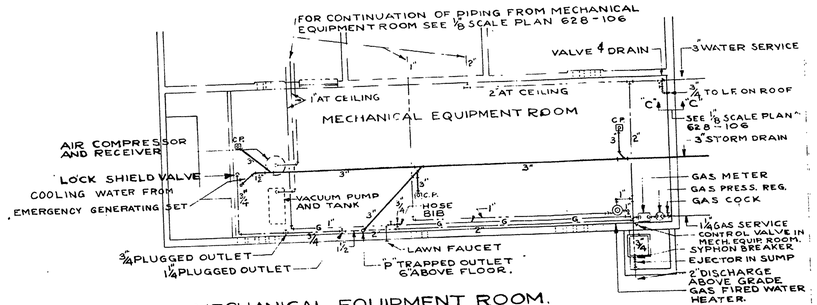


NOTE 1. ORIENTATION OF THIS BUILDING SHALL NOT BE CHANGED WITHOUT CONSULTING Q.M.G.
2. ROADS AND WALKS NOT IN THIS CONTRACT.

PLOT PLAN
SCALE 1"=50'

72°-32'-25"

ARCHITECTURAL DETAILS



MECHANICAL EQUIPMENT ROOM.
SCALE 1/8" = 1'-0"

CAPACITY OF EQUIPMENT
GAS METER
SHALL HAVE A CAPACITY OF NOT LESS THAN 350 C.F.H. WITH 1/2 PRESS. DIFFERENTIAL.
GAS PRESS. REGULATOR
SHALL HAVE A CAPACITY OF NOT LESS THAN 350 C.F.H.
GAS FIRED WATER HEATER
CAPACITY 20 GAL. PER HOUR, TEMPERATURE RISE 100°F, 20 GAL. STORAGE CAPACITY.
EJECTOR
TEN G.P.M. (EXCLUSIVE OF OPERATING WATER) AGAINST A DYNAMIC HEAD OF 15 FT. WITH OPERATING WATER AT 40 LBS. PRESSURE PER SQ. INCH.

PLUMBING

AS-BUILT DRAWING
20 APRIL 1942
E. W. Garbisch
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

CONTRACT NO. W-699-eng-1532

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT & INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
PLOT PLAN - PLANS AND DETAILS OF MECHANICAL EQUIPMENT ROOM

IN SHEETS — SCALE: 1 IN. = 50 FT. — SHEET NO. 10

U.S. ENGINEER OFFICE, PROVIDENCE, R.I. JUNE, 1941

SUBMITTED:	APPROVAL RECOMMENDED:	APPROVED:
ENGINEER HEAD, DESIGN SECTION	PRINCIPAL ENGINEER CHIEF, ENGINEERING DIV.	LT. COL., CORPS OF ENGINEERS DISTRICT ENGINEER

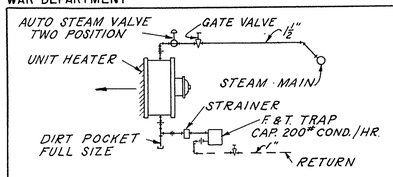
DESIGN SECTION: E.M. Vinci, ASSOC. ENGINEER
DRAWN: DEPAPP & AITKEN
TRACED: RANDOLPH & WGA.
CHECKED:
Q.M.G. DWG. NO. 6905-480
FILE NO. WO-4-1143

KEY	DATE	REVISION (Indicated by △)	REV. BY	CK. BY	AP. BY
	11/8/43	"As-built" Revisions — J.R.W. & Co.			

51

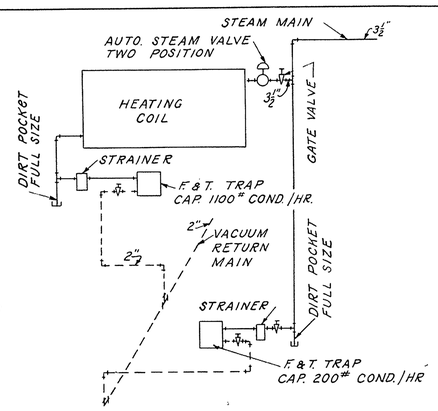
WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY

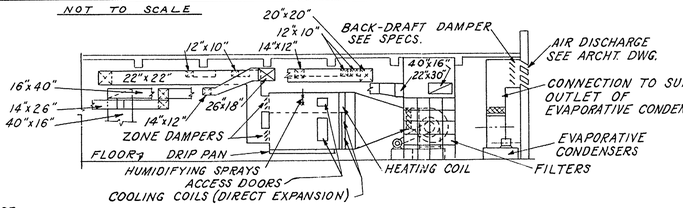


DETAIL OF UNIT HEATER CONNECTIONS
NOT TO SCALE

NOTES:
ALL DUCTS SHALL BE RUN AS CLOSE AS POSSIBLE TO BEAMS.
SEE ARCHT. DWGS. FOR DOOR LOUVERS.
ALL MANUAL DAMPERS SHALL HAVE INDICATING & LOCKING DEVICES.
FURNISH CANVAS CONNECTIONS ON SUCTION & DISCHARGE SIDES OF ALL FANS.
ALL CLEARANCES AROUND DUCTS PASSING FROM MECHANICAL EQUIPMENT ROOM TO REST OF BUILDING SHALL BE FILLED WITH ROCK WOOL.
AIR TURNS SHALL BE USED WHERE SQUARE ELBOWS ARE SHOWN.
ALL DUCT DIMENSIONS ARE NET INSIDE DIMENSIONS
ALL DUCTS CARRYING CONDITIONED AIR IN MECHANICAL EQUIPMENT ROOM SHALL BE INSULATED. SEE SPECS.
ORIENTATION OF THIS BUILDING SHALL NOT BE CHANGED WITHOUT CONSULTING O.Q.M.G.
ALL AIR QUANTITIES ARE BASED ON STANDARD AIR. SEE ARCHT. DWGS. FOR BARS IN DUCTS WHERE THEY PASS THROUGH PARTITION BETWEEN MECHANICAL EQUIPMENT ROOM AND REMAINDER OF BUILDING.

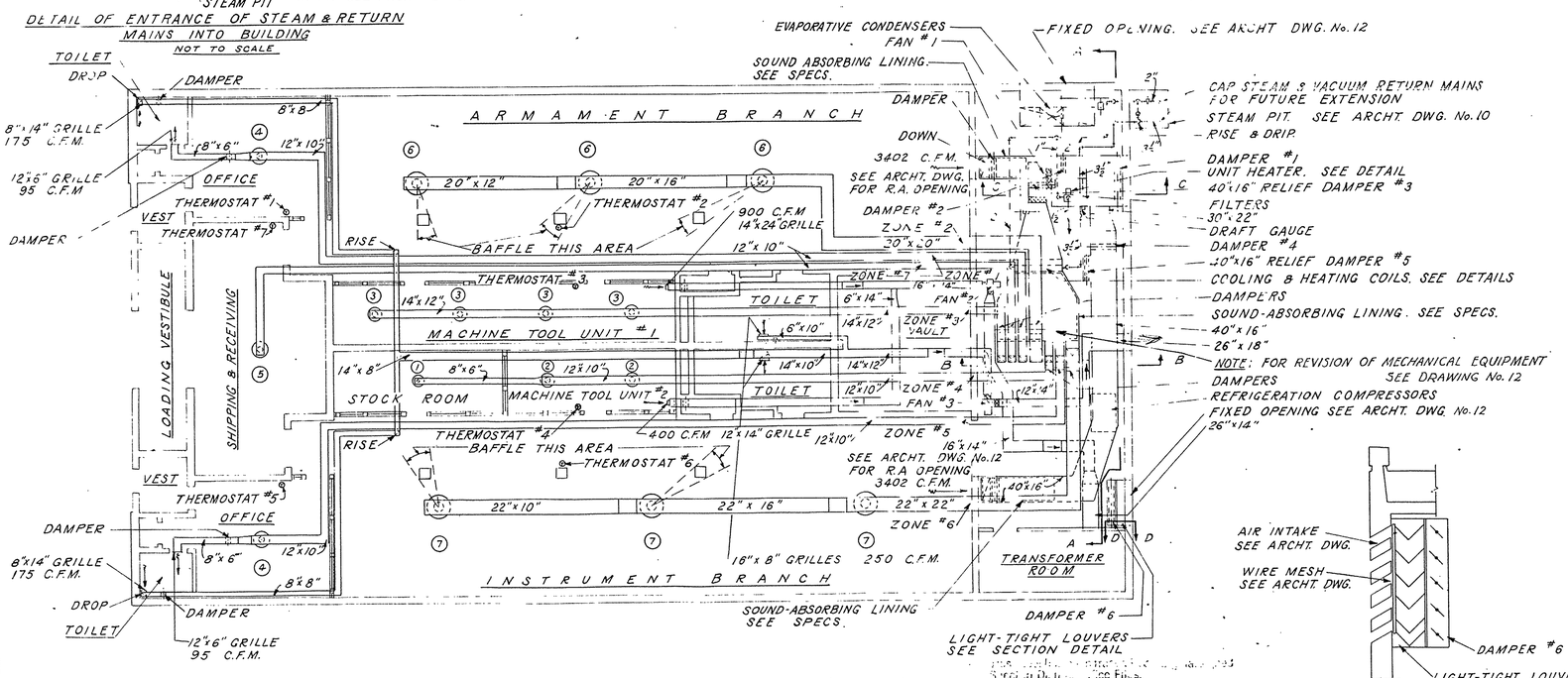


DETAIL OF HEATING COIL CONNECTIONS
NOT TO SCALE



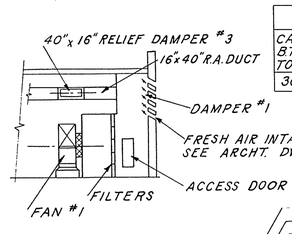
SECTION A-A
SCALE: 1/8" = 1'-0"

DETAIL OF ENTRANCE OF STEAM & RETURN MAINS INTO BUILDING
NOT TO SCALE

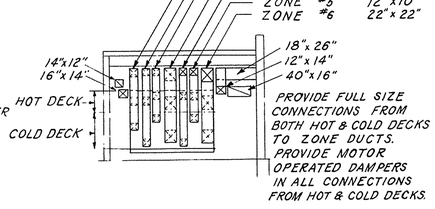


FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

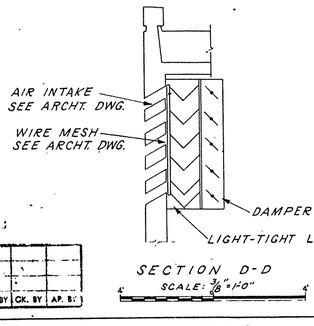
AS-BUILT DRAWING
20 APRIL 1942
E. W. GARBISCH
COL. CORPS OF ENGINEERS
DISTRICT ENGINEER
CONTRACT NO. W-699-eng-1532



SECTION C-C
SCALE: 1/8" = 1'-0"



SECTION B-B
SCALE: 1/8" = 1'-0"



SECTION D-D
SCALE: 3/8" = 1'-0"

EVAPORATE CONDENSERS (EACH)	
CAPACITY - MIN. B.T.U. OUTPUT PER HOUR	150,000
DESIGN WET BULB TEMPERATURE °F	78
MAXIMUM CONDENSING TEMPERATURE °F	105

COOLING COILS (DIRECT EXPANSION)								
CAPACITY B.T.U./HR TOTAL HEAT	C.F.M	MINIMUM FACE AREA SQ. FT.	REFRIGERANT TEMP. AT SUCTION - °F		AIR TEMPERATURE °F			
					ENTERING COIL		LEAVING COIL	
			PRESS. TEMP.	SUPERHEAT	DRY BULB	WET BULB	DRY BULB	WET BULB
300,000	8,830	22.62	40	6	79.9	64.9	57	53.4

REFRIGERATION COMPRESSORS (EACH)	
CAPACITY - MIN. B.T.U. OUTPUT PER HR.	150,000
APPROX. REFRIGERANT TEMP. °F	40°

HEATING COIL	
CAPACITY - MIN. B.T.U./HR.	515,000
C.F.M.	3,860
MIN. FACE AREA - SQ. FT	11.25
TEMP. OF AIR ENTERING COIL	52.5°

NOTE: OPERATING STEAM PRESSURE - 5#

FAN SCHEDULE					
FAN NO.	SERVICE	C.F.M.	STATIC PRESS INS. H_2O	MIN. WHEEL DIAM.	MAX. OUTLET VEL (F.P.M.)
1	SUPPLY	9,075	1½	33"	1,550
2	EXHAUST	1,300	¼	10½"	—
3	EXHAUST	850	½	9"	—

FILTER SCHEDULE				
FILTER SIZE	NO. OF FILTERS	CAPACITY C.F.M.	MAX. RESIST. CLEAN FILTER	CLEAN EFF NOT LESS THAN
20"x 20"	20	9,075	0.2"	70%

SUPPLY DIFFUSERS			
SYMBOL	NO. OF DIFFUSERS	C.F.M. PER DIFFUSER	MAX. NECK VEL. (F.P.M.)
1	1	95	1100
2	2	175	900
3	4	200	1050
4	2	390	710
5	1	500	930
6	3	960	950
7	3	1160	850

UNIT HEATER (BASED ON 5# STEAM)					
NO. OF UNITS	TYPE	CAPACITY B.T.U./HR	C.F.M. STAND. AIR	ENT AIR TEMP. °F	TRAP CAP LBS. COND/HR
1	CEILING	60,000	750	50	200

0 °F. ZONE
UNIT HEATER & HEATING COIL 575,000 B.T.U./HR

NO.	DATE	REVISION INDICATED BY "△"	BY	CK. BY	AP. BY
1	11/8/43	"As-built" Revisions — J.R.W. & Co.			

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT & INSTRUMENT INSPECTION AND ADJUSTMENT BLDG.
AIR CONDITIONING

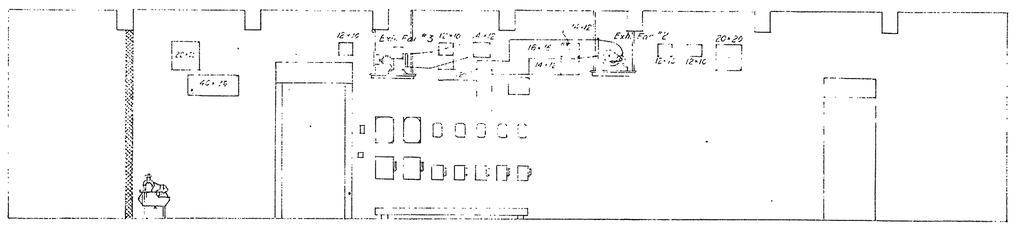
IN SHEETS SCALE 1/8"= 1'-0" SHEET NO 11

U.S. ENGINEER OFFICE, PROVIDENCE, R.I. JUNE, 1941

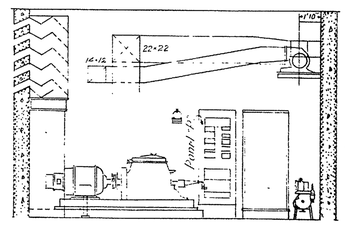
SUBMITTED:	APPROVAL RECOMMENDED:	APPROVED:
K.B. Nielsen	T.S. Burns	Harley Latson
ENGINEER HEAD, DESIGN SECTION	PRINCIPAL ENGINEER CHIEF, ENGINEERING DIV.	LT. COL., CORPS OF ENGINEERS DISTRICT ENGINEER
DESIGN SECTION: H.J. Kropper ENGINEER	DRAWN: GEIGER-KAPLAN TRACED: KAPLAN CHECKED:	Q.M.G. DWG. NO. 6905-483 FILE NO. WO-4-1144

WAR DEPARTMENT

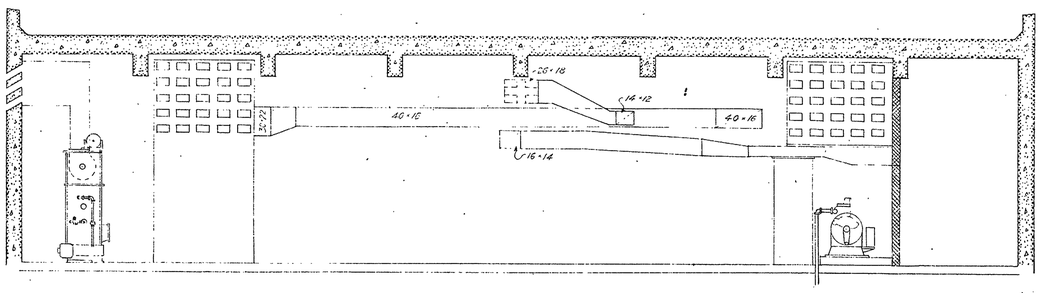
CORPS OF ENGINEERS, U.S. ARMY



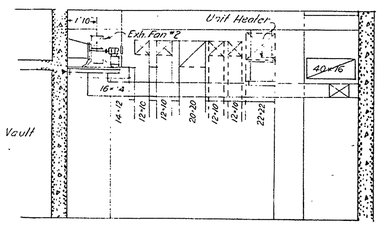
SECTION A/12



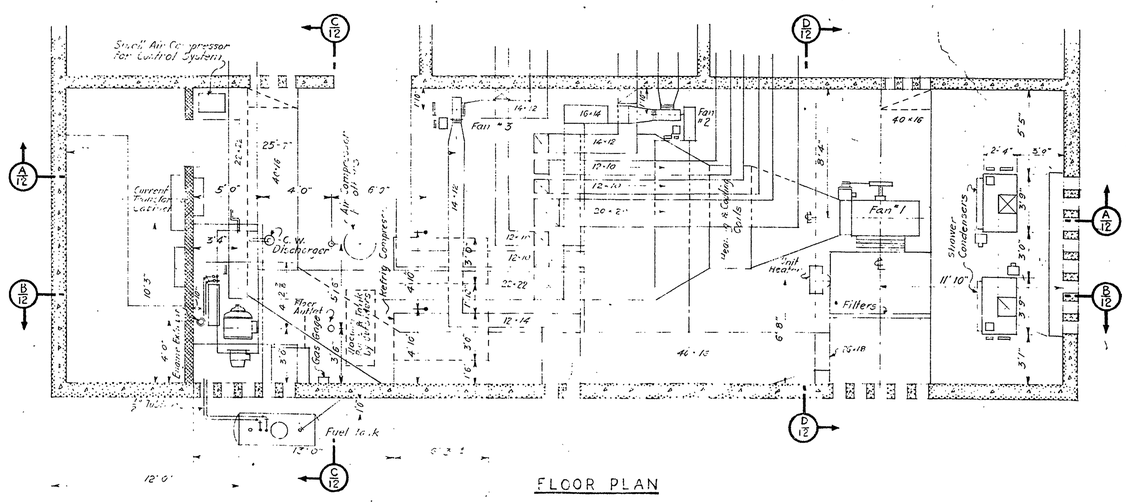
SECTION C/12



SECTION B/12



SECTION D/12



FLOOR PLAN

SCALE 1/4" = 1'-0"

This sheet traced from drawings prepared by Ernest F. Carlson, Inc. Springfield, Mass.

AS-BUILT DRAWING
20 APRIL 1942
E. W. Garbisch
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER
CONTRACT NO. W-699-eng-1532

5-1

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT AND INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
MECHANICAL EQUIPMENT ROOM LAYOUT & SECTIONS

IN SHEETS — SCALE 1/4" = 1'-0" — SHEET NO. 12

U.S. ENGINEER OFFICE, PROVIDENCE, R.I., JUNE, 1941

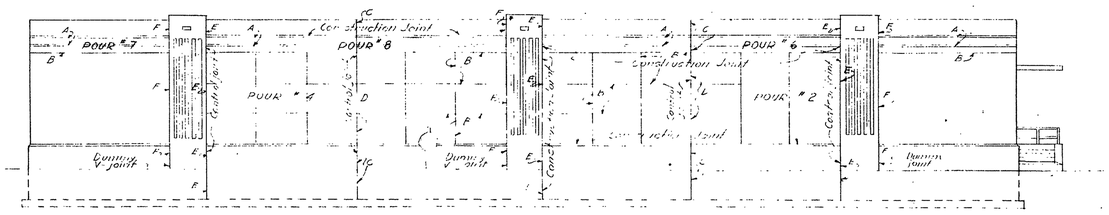
REVIEWED:	APPROVAL RECOMMENDED:	APPROVED:
K.B. Nielsen	T.S. Burns	Harley Latson
SENIOR ENGINEER HEAD, DESIGN SECTION	PRINCIPAL ENGINEER CHIEF, ENGINEERING DIV.	LT. COL., CORPS OF ENGINEERS DISTRICT ENGINEER.

PREPARED BY: E.F. CARLSON, INC. SPRINGFIELD, MASS.
DRAWN:
TRACED: H.M.
CHECKED:
FILE NO. WO-4-E005

KEY	DATE		REV. BY	CK. BY	AP. BY
	11-8-43	"As-built" Revisions — J.R.W. & Co.			

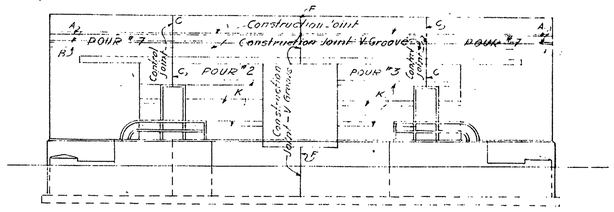
WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY



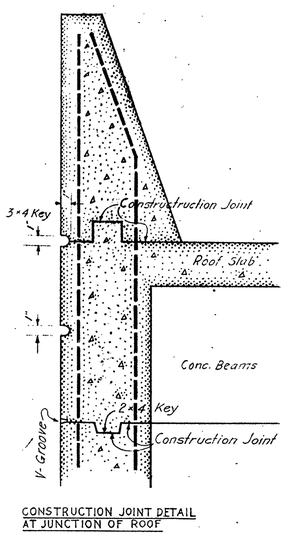
EAST ELEVATION

SCALE: 1/8" = 1'-0"

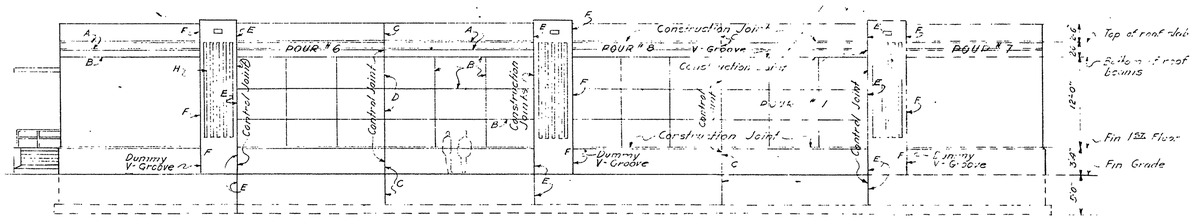


NORTH ELEVATION

SCALE: 1/8" = 1'-0"

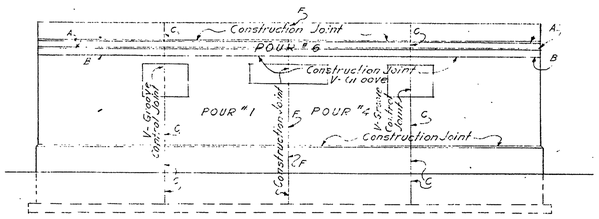


CONSTRUCTION JOINT DETAIL AT JUNCTION OF ROOF



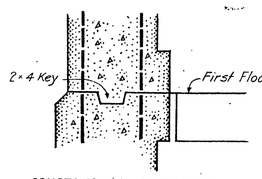
WEST ELEVATION

SCALE: 1/8" = 1'-0"

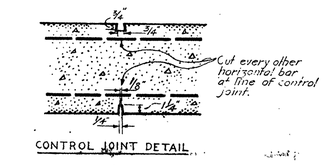


SOUTH ELEVATION

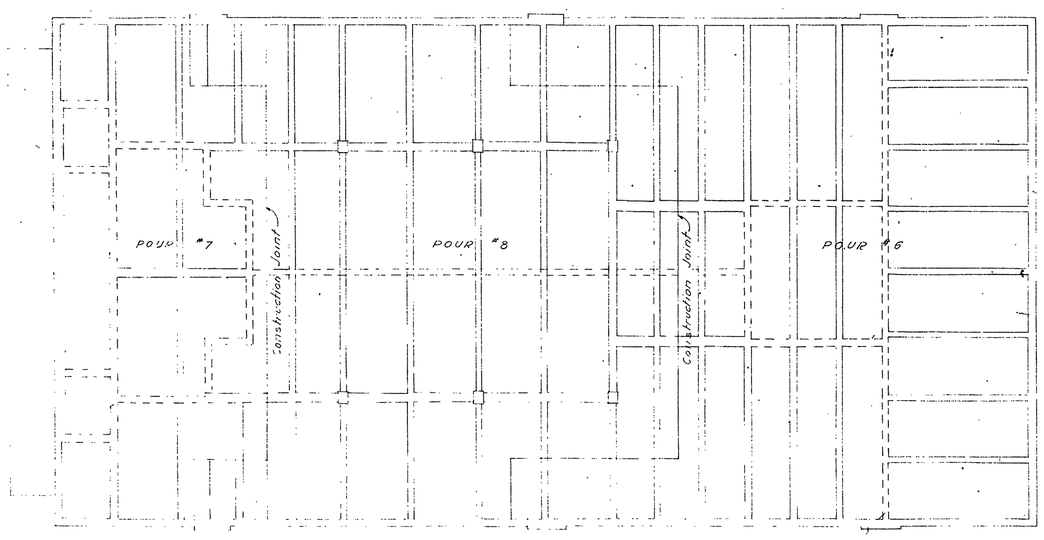
SCALE: 1/8" = 1'-0"



CONSTRUCTION JOINT DETAIL AT JUNCTION OF WALL

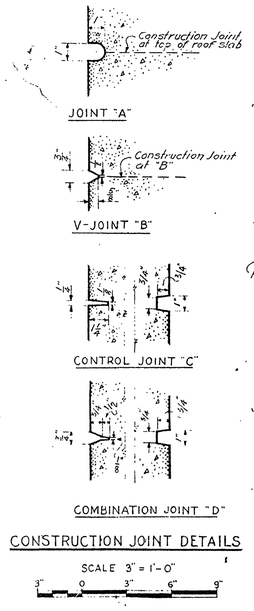


CONTROL JOINT DETAIL



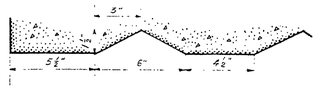
ROOF PLAN

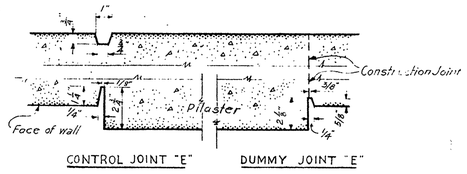
SCALE: 1/8" = 1'-0"

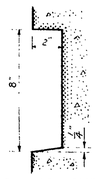


CONSTRUCTION JOINT DETAILS

SCALE 3" = 1'-0"







NOTE:

This sheet traced from General Contractors Original drawing.

Ernest F Carlson Inc Springfield, Mass.

AS-BUILT DRAWING
20 APRIL 1942
E.W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

CONTRACT NO. W-698-eng-1532

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT AND INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
CONSTRUCTION & CONTROL JOINTS & DETAILS

IN SHEETS — SCALE: 1/8" = 1'-0" — SHEET NO. 13

U.S. ENGINEER OFFICE, PROVIDENCE, R.I., JUNE, 1941

REVIEWED:	APPROVAL RECOMMENDED:	APPROVED:
K.B. Nielsen, SENIOR ENGINEER, HEAD, DESIGN SECTION	T.S. Bonds, PRINCIPAL ENGINEER, CHIEF, ENGINEERING DIV.	Harley Letson, LT. COL. CORPS OF ENGINEERS, DISTRICT ENGINEER

PREPARED: E.F. CARLSON, INC. SPRINGFIELD, MASS.

DRAWN: TRACED: H.M. CHECKED:

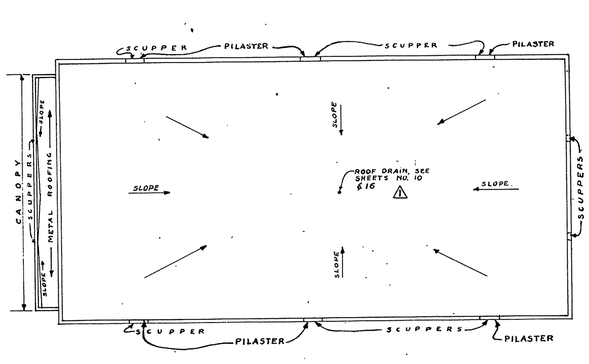
FILE NO. WO-4-200

KEY	DATE	REVISION (Indicated by Δ)	REV. BY	CK. BY	AP. BY
	11-8-42	"As-built" Revisions — J.B.W. & Co.			

13

WAR DEPARTMENT

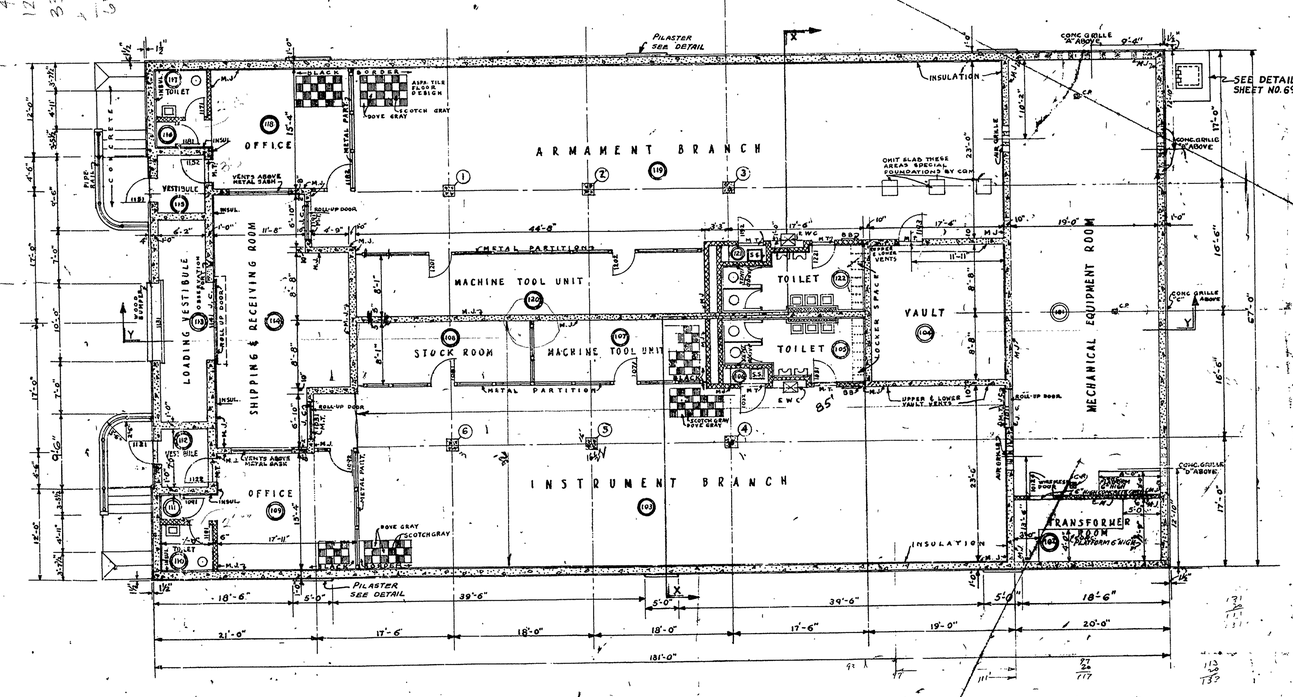
CORPS OF ENGINEERS, U.S. ARMY



ROOF PLAN

SCALE 1/16" = 1'-0"

10' 0 10' 20' 30' 40'



FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

5' 0" 5' 10' 15' 20'

AS-BUILT DRAWING
20 APRIL 1942
E. W. Garbisch
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

* NOTE:
VAULT DOOR USED IN ARMAMENT & INSTRUMENT INSPECTION BLDG. AT WESTOVER FIELD WAS MFG'D. BY HERRING-HALL-MARVIN SAFE CO., HAMILTON, OHIO, THEIR NO. 7832-4 HOUR F.S. VAULT FRONT HAVING UNDERWRITERS 4 HOUR LABEL AS DETAILED ON THEIR SHOP DWG. "Y."

STANDARD DETAILS

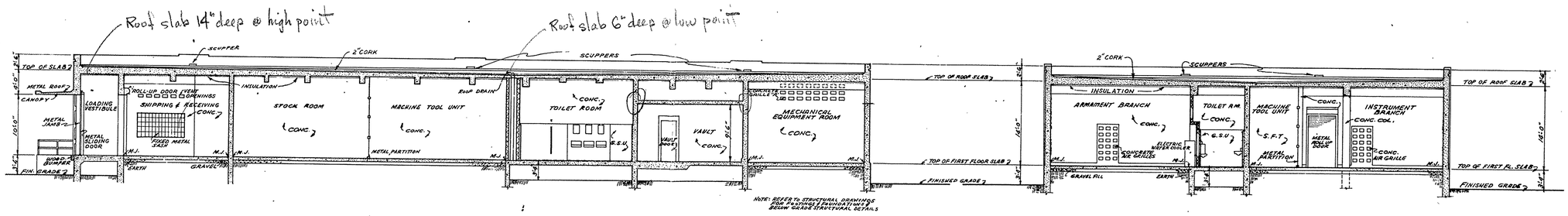
ITEM	DWG. NO.	DETAIL NO.	REMARKS
LOUVRE	6199 - 301		
THRESHOLD	6199 - 332	A	
* VAULT DOOR	6199 - 333		
BULLETIN BOARD	6199 - 351	(5)	2'-6" HIGH, 2'-0" WIDE, MODIFIED AS PER DRAWING
MC. PARTITION	6199 - 372	(1)	
MIRRORS	6199 - 376	(6)	

DOOR SCHEDULE

DOOR NO.	TYPE	SIZE	REMARKS
101	B	5'-0" x 10'-0"	SEE DETAIL
101A	B	5'-0" x 8'-0" x 1 1/2"	6" CONC. CURB
101B	B	5'-0" x 10'-0"	SEE DETAIL
102A	C	3'-0" x 7'-0" x 1 3/4"	
102B	C	3'-0" x 7'-0" x 1 3/4"	
102C	C	3'-0" x 7'-0" x 1 3/4"	
107A	C	3'-0" x 7'-0" x 1 3/4"	
107B	C	3'-0" x 7'-0" x 1 3/4"	
109A	C	3'-0" x 7'-0" x 1 3/4"	
109B	C	3'-0" x 7'-0" x 1 3/4"	
110A	C	3'-0" x 7'-0" x 1 3/4"	
110B	C	3'-0" x 7'-0" x 1 3/4"	
111A	C	3'-0" x 7'-0" x 1 3/4"	
111B	C	3'-0" x 7'-0" x 1 3/4"	
112	C	3'-0" x 7'-0" x 1 3/4"	SEE DETAIL
113	C	3'-0" x 7'-0" x 1 3/4"	SEE DETAIL
114	A	5'-0" x 8'-0" x 1 3/4"	SEE DETAIL
115	A	5'-0" x 8'-0" x 1 3/4"	SEE DETAIL
116	C	3'-0" x 7'-0" x 1 3/4"	SEE DETAIL
117	C	3'-0" x 7'-0" x 1 3/4"	
118	C	3'-0" x 7'-0" x 1 3/4"	
119	C	3'-0" x 7'-0" x 1 3/4"	

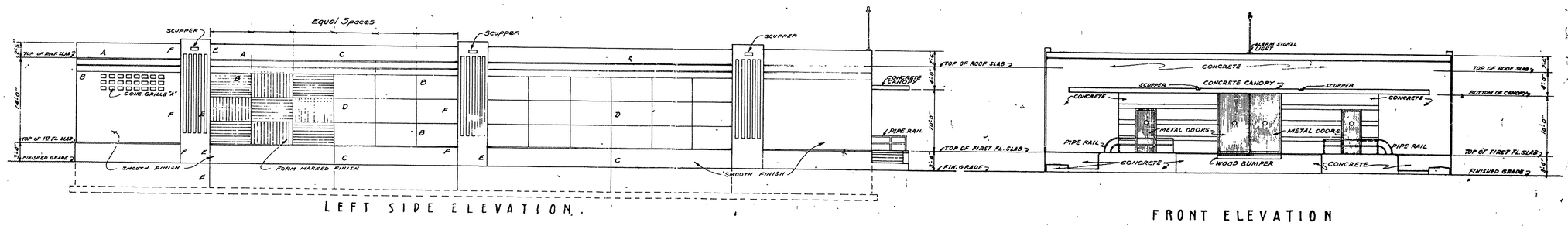
WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY



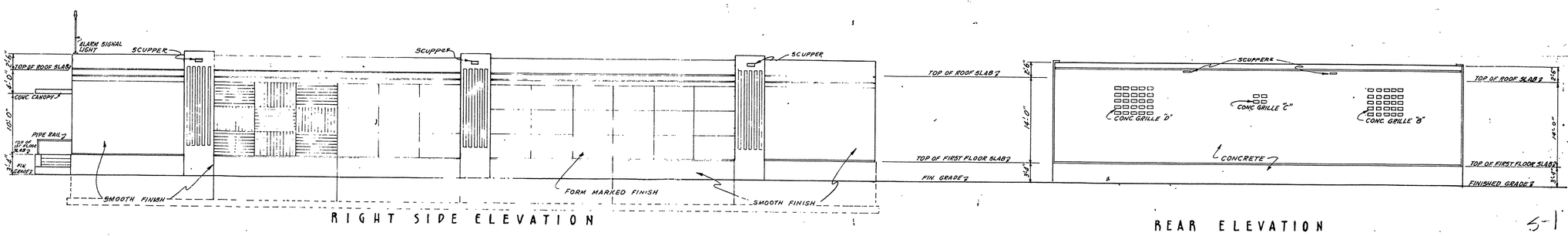
LONGITUDINAL SECTION "Y-Y" ⚠

CROSS SECTION "X-X" ⚠



LEFT SIDE ELEVATION.

FRONT ELEVATION



RIGHT SIDE ELEVATION

REAR ELEVATION

5-1

AS-BUILT DRAWING
20 APRIL 1942
E. W. Garbisch
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

CONTRACT NO. W-699 eng-1532

KEY	DATE	REVISION (indicated by △)	REV. BY	CH'K BY	AP. BY
	11/8/43	"As-Built" Revisions — J.R.W. & Co.			
△	8/5/41	Roof slab revised	C.H.W.		J.R.W.

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT AND INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
ELEVATIONS AND SECTIONS

IN SHEETS — SCALE: 1/8 IN. = 1 FT. (0 5' 10' 15' 20') — SHEET NO. 3

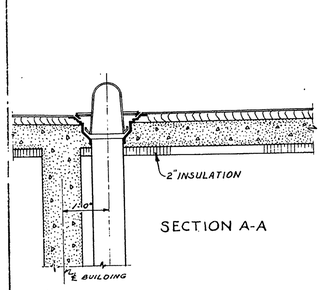
U. S. ENGINEER OFFICE, PROVIDENCE, R. I. JUNE, 1941

SUBMITTED:	APPROVAL RECOMMENDED:	APPROVED:
ENGINEER, HEAD, DESIGN SECTION	PRINCIPAL ENGINEER, CHIEF, ENGINEERING DIV.	LT. COL. CORPS OF ENGINEERS, DISTRICT ENGINEER

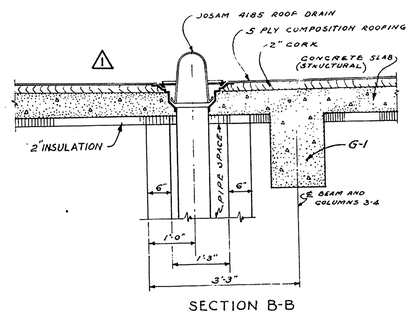
DESIGN SECTION:	DRAWN: RANDOLPH-MILLER	Q.M.C. DWG. NO. 628-10
E. M. Viren, ASSOC. ENGINEER	TRACED: MILLER	FILE NO. WQ-4-113
	CHECKED:	

WAR DEPARTMENT

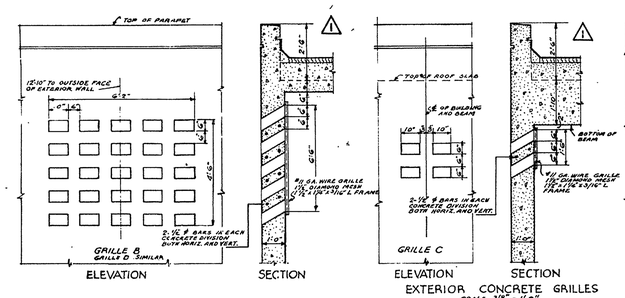
CORPS OF ENGINEERS, U.S. ARMY



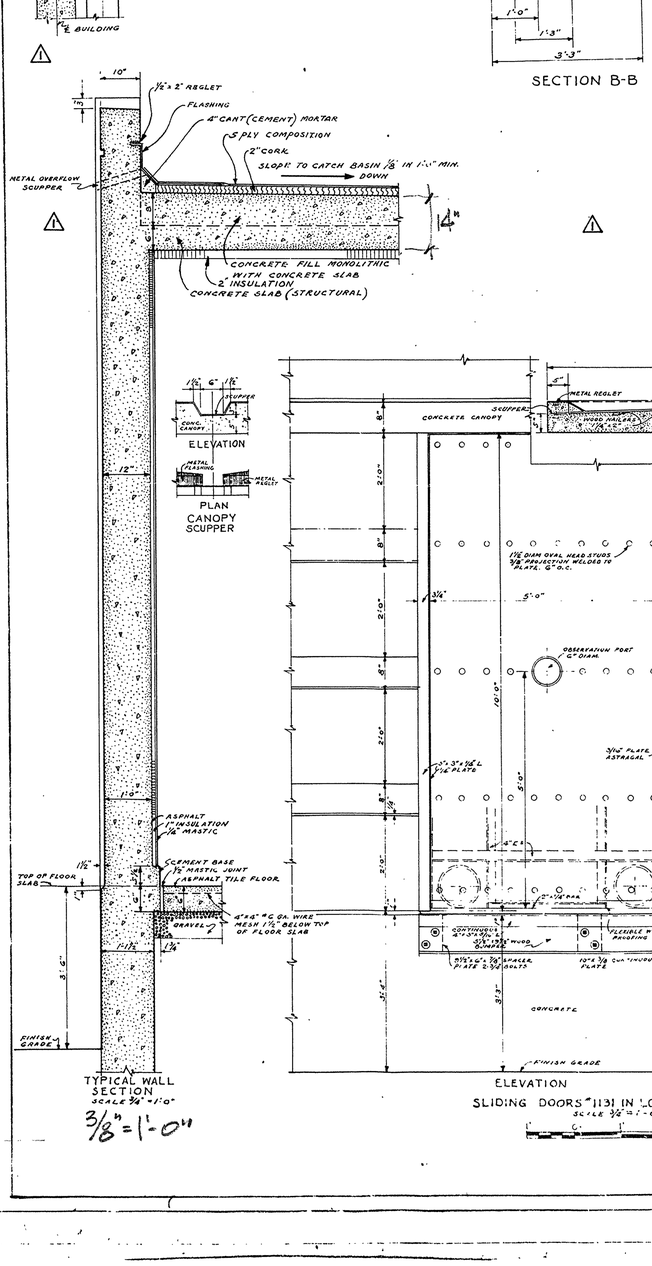
SECTION A-A

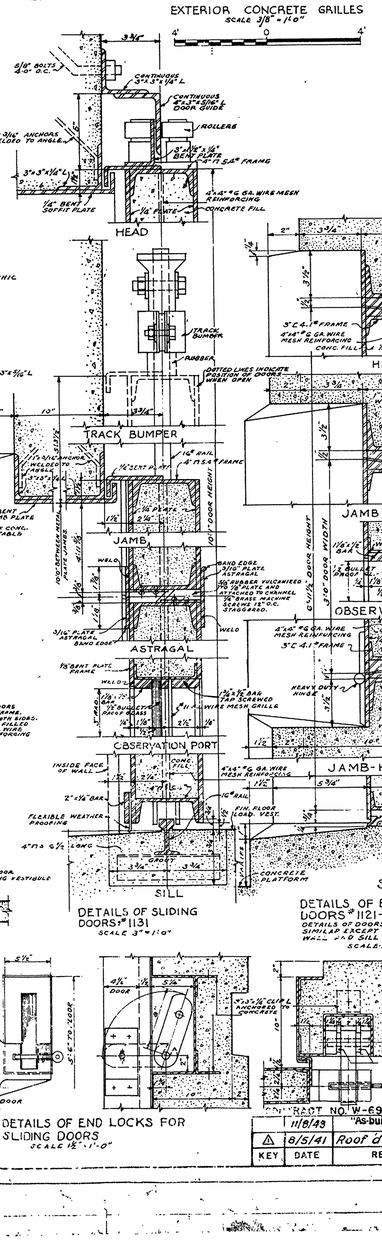


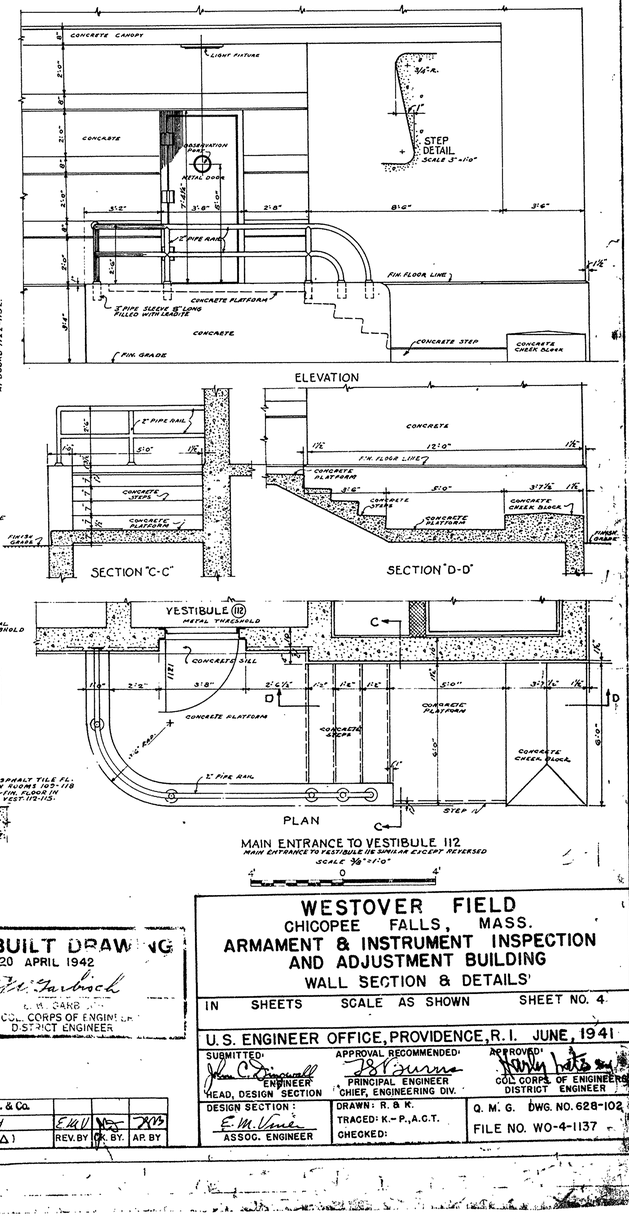
SECTION B-B

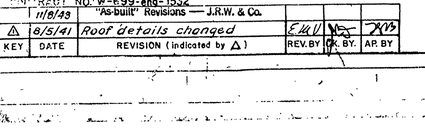


EXTERIOR CONCRETE GRILLES
SCALE 3/8" = 1'-0"









CONTRACT NO. W-699-eng-1532

KEY	DATE	REVISION (indicated by △)	REV. BY	CK. BY.	AP. BY
	11/8/43	"As-built" Revisions — J.R.W. & Co.			
△	8/5/41	Roof details changed	E.M.V.		

AS-BUILT DRAWING
20 APRIL 1942
[illegible]
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT & INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
WALL SECTION & DETAILS

IN SHEETS SCALE AS SHOWN SHEET NO. 4

U.S. ENGINEER OFFICE, PROVIDENCE, R.I. JUNE, 1941

SUBMITTED: E. M. Vine, ENGINEER, HEAD, DESIGN SECTION
APPROVAL RECOMMENDED: J. R. Burns, PRINCIPAL ENGINEER, CHIEF, ENGINEERING DIV.
APPROVED: Hanly Hutts, COL. CORPS OF ENGINEERS, DISTRICT ENGINEER

DESIGN SECTION: E. M. Vine, ASSOC. ENGINEER
DRAWN: R. B. R.
TRACED: K.-P., A.C.T.
CHECKED:
Q. M. G. DWG. NO. 628-102
FILE NO. WO-4-1137

responsible
or completeness of the information
provided herein.

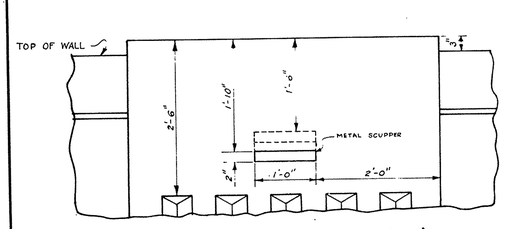
WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY

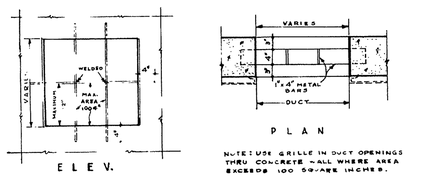
AS-BUILT DRAWING
20 APRIL 1942
E. W. [illegible]
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

KEY	DATE	REVISION (Indicated by △)	REV.BY	CK.BY	APBY
△	6/3/41	Change in scupper	Elec.	KCO	JHB
	11/6/43	"As-built" Revisions — J.R.W. & Co.			

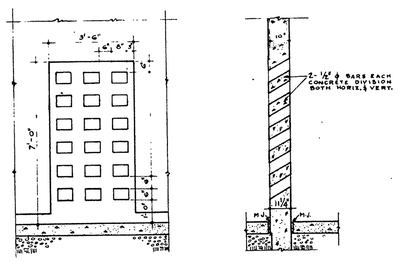
CONTRACT NO. W-699-eng-1532



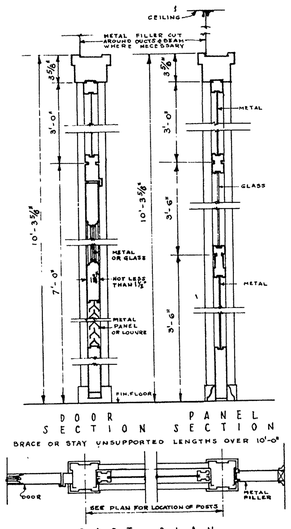
· PILASTER · DETAIL
SCALE 1" = 1'-0"



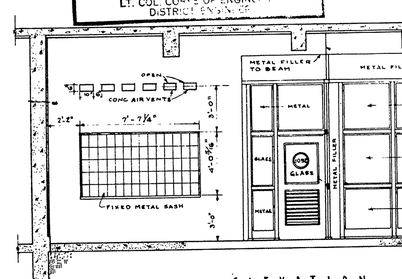
· DUCT · GRILLE · DETAIL ·
SCALE 1"-3/4" = 1'-0"

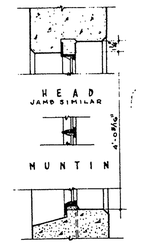


· AIR · GRILLE · DETAIL ·
SCALE 3/8" = 1'-0"

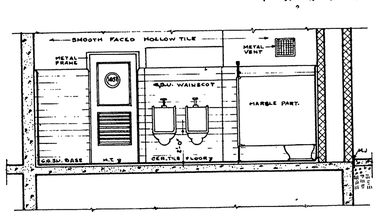


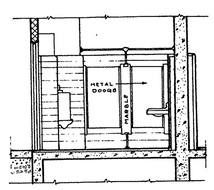
· METAL · PARTITION · DETAILS ·
SCALE 1½" = 1'-0"

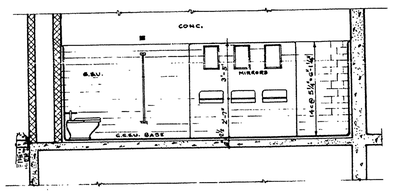


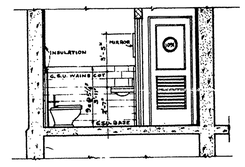


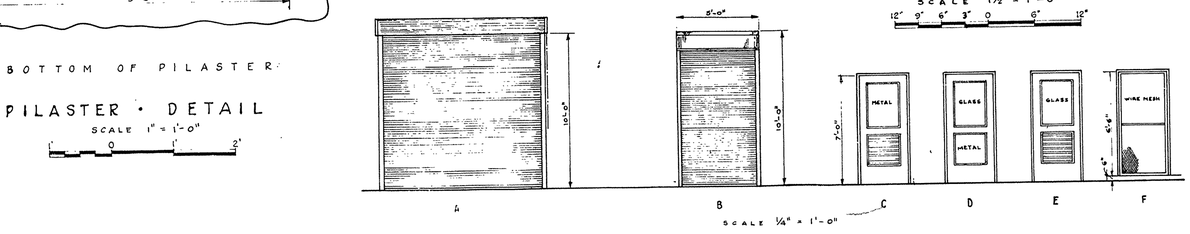
· DETAILS · OF · OFFICE · SASH · & · PARTITIONS ·



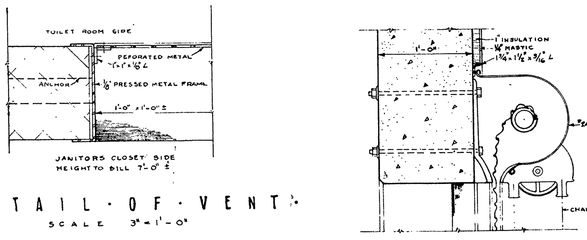




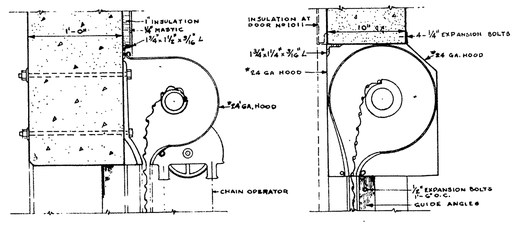


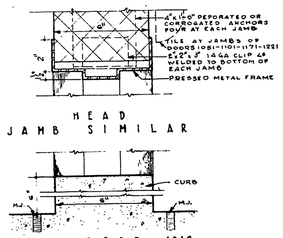


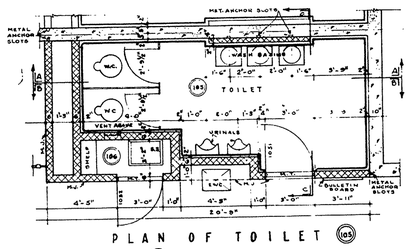
SCALE ¼" = 1'-0"

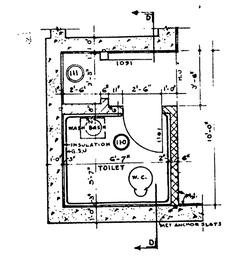


· DETAIL · OF · VENT ·
SCALE 3" = 1'-0"

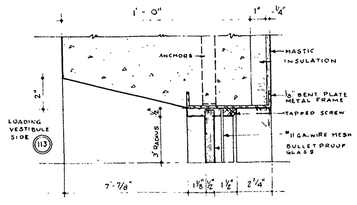


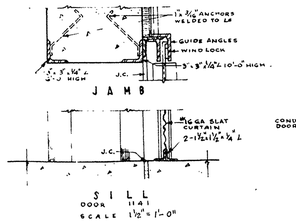


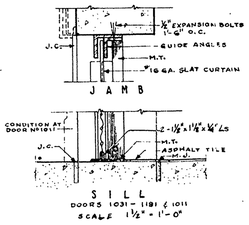


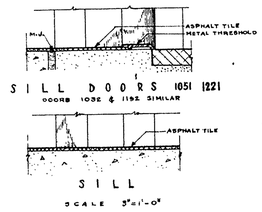


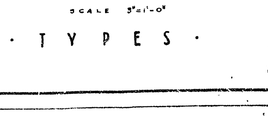
· DETAILS · OF · TOILET · ROOMS ·
SCALE ½" = 1'-0"



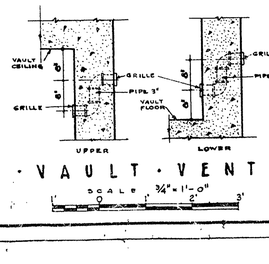








· OBSERVATION · PORT · DOOR · DETAILS · AND · TYPES ·
SCALE 3" = 1'-0"



· VAULT · VENTS ·
SCALE ¾" = 1'-0"

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT & INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
MISCELLANEOUS DETAILS

IN SHEETS | SCALE: AS SHOWN | SHEET NO. 5

U.S. ENGINEER OFFICE, PROVIDENCE, R.I. JUNE, 1941

SUBMITTED: [illegible] ENGINEER, HEAD, DESIGN SECTION
APPROVAL RECOMMENDED: [illegible] PRINCIPAL ENGINEER, CHIEF, ENGINEERING DIV.
APPROVED: [illegible] LT. COL., CORPS OF ENGINEERS, DISTRICT ENGINEER

DESIGN SECTION: E.M. Unver ASSOC. ENGINEER
DRAWN: RANDOLPH
TRACED: P.J.G
CHECKED:
Q. M. G. DWG. NO. 628-103
FILE NO. WO-4-1138

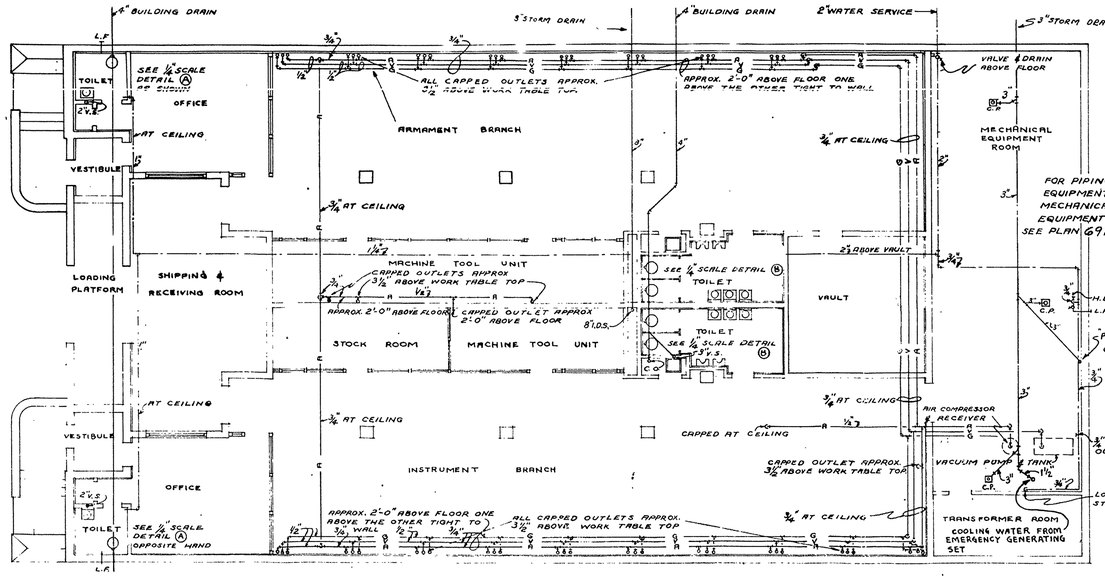
or completeness of the information provided herein.

WAR DEPARTMENT — CORPS OF ENGINEERS, U.S. ARMY

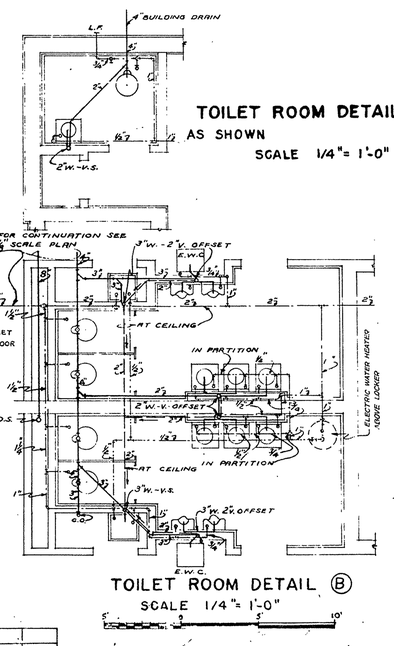
AS-BUILT DRAWING
20 APRIL 1942
E. W. Garbisch
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER
CONTRACT NO. W-699-eng-1532

CAPACITY OF EQUIPMENT
ELECTRIC WATER COOLERS
TYPE B SIZE 3 CAPACITY 10 GALLONS PER HOUR

FIXTURE CONNECTIONS			
FIXTURE	C.W.	H.W.	SOIL & WASTE
WATER CLOSET	1"	–	4"
URINAL	¾"	–	2"
SERVICE SINK	½"	½"	3"
LAVATORY	½"	½"	1¼"
ELECTRIC WATER COOLER	½"	–	1¼"



FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"



TOILET ROOM DETAIL (A)
AS SHOWN
SCALE 1/4"= 1'-0"

TOILET ROOM DETAIL (B)
SCALE 1/4"= 1'-0"

PLUMBING LEGEND

SOIL	S.
WASTE	W.
VENT	V.
COLD WATER	C.W.
HOT WATER	H.W.
AIR	A.
VACUUM	V.
VENT STACK	V.S.
ELECTRIC WATER COOLER	E.W.C.
CESS POOL	C.P.
INTERIOR DOWN SPOUT	I.D.S.
HOSE BIB	H.B.
LAWN FAUCET	L.F.
GAS	G.

NOTES:
LOCATION & DIRECTION OF UTILITIES TO BE AS DIRECTED BY CONTRACTING OFFICER.

ALL OUTLETS FOR AIR, GAS & VACUUM ½"

CESSPOOLS TO BE LOCATED AS DIRECTED BY CONTRACTING OFFICER.

KEY	DATE	REVISION (INDICATED BY △)	REV. BY	CY. BY	AP. BY.
	11/8/43	"As-built" Revisions — J.R.W. & Co.			

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT AND INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
PLUMBING

IN SHEETS — SCALE: 1/8 IN. = 1 FT. — SHEET NO. 6

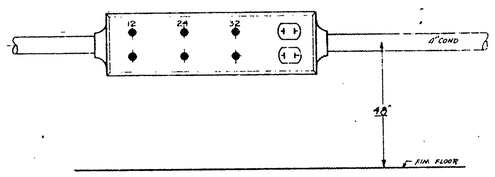
U.S. ENGINEER OFFICE, PROVIDENCE, R.I. JUNE, 1941

SUBMITTED:	APPROVAL RECOMMENDED:	APPROVED:
ENGINEER, HEAD, DESIGN SECTION	PRINCIPAL ENGINEER, CHIEF, ENGINEERING DIV.	LT. COL. CORPS OF ENGINEERS, DISTRICT ENGINEER

DESIGN SECTION: E.M.V. ASSOC. ENGINEER
DRAWN: B., A.
TRACED: J.S. G.F.B.
CHECKED:
Q.M.G. DWG. NO. 628-106
FILE NO. WO-4-1139

WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY



DETAIL OF SPECIAL OUTLET MARKED ⊕

SCHEDULE PANEL M (125 AMP. 3Φ 4 WIRE MAINS, LUGS ONLY)

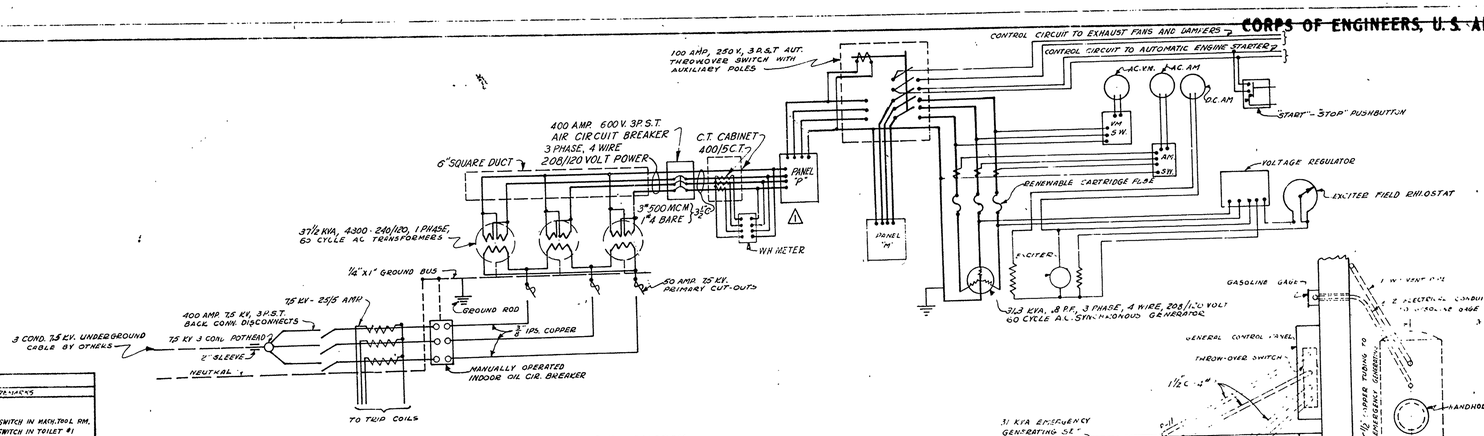
CIR NO	APPLICATION	SPARE	BREAKER AMP.	POLES	WIRE SIZE	COND.	REMARKS
M-1	FEEDER TO PANELS D & E		90	3	4#4	1 1/2"	
M-2	EXHAUST FAN #1		35	3	3#10	1"	
M-3	EXHAUST FAN #2		25	1	2#10	1"	CONTROL SWITCH IN MATH. TOOL RM.
M-4	EXHAUST FAN #3		25	1	2#10	1"	CONTROL SWITCH IN TOILET #1
M-5	FEEDER TO PANEL F		35	3	4#8	1 1/2"	
M-6	SPARE FAN		225	3		3 1/2"	
M-7	OUTLET CHARGER		15	1	2#10		

NOTE: PANEL "M" IS CONNECTED TO THE EMERGENCY ENGINE-GEN. SET BY THE AUTOMATIC THROW OVER SWITCH
PANEL "D" TO HAVE 24-30 AMP 3P BREAKERS,
PANEL "E" TO HAVE 28-30 AMP 3P BREAKERS.

SCHEDULE PANEL P (400 AMP. 3Φ 4 WIRE MAINS LUGS ONLY)

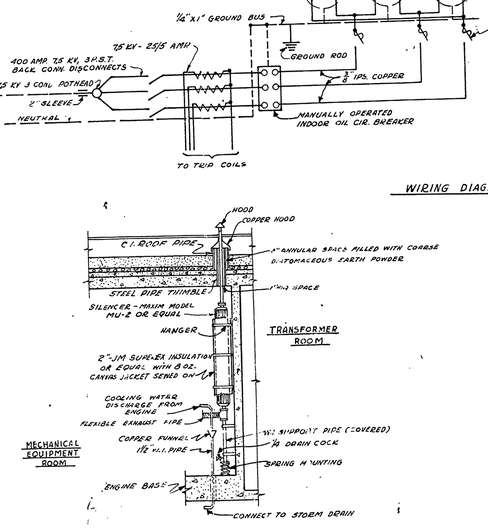
CIR NO	APPLICATION	SPARE	BREAKER AMP.	POLES	WIRE SIZE	COND.	REMARKS
P-1	EVAPORATIVE CONDENSER #1		35	3	3#10	1"	
P-2	" " PUMP #1		15	2	2#10	1"	
P-3	COMPRESSOR #1 FOR AIR COND.		125	3	3#2	1 1/2"	
P-6	COMPRESSOR #2		125	3	3#2	1 1/2"	
P-10	VACUUM PUMP		50	3	3#8	1"	
P-11	AIR COMPRESSOR		50	3	3#8	1"	
P-7	MG. SET 12V. D.C. 3KW. GEN.		20	3	3#10	1"	
P-8	MG. SET 24V. D.C. " "		20	3	3#10	1"	
P-9	MG. SET 32V. D.C. " "		20	3	3#10	1"	
P-3	EVAPORATIVE CONDENSER #2		35	3	3#10	1"	
P-4	" " PUMP #2		15	2	2#10		
P-12	FEEDER FOR PANELS "E" & "F"		90	2	3#4	1 1/2"	
P-14	SPACE ONLY		225	3			
P-13	FEEDER FOR PANEL "M"		100	3	4-2	1 1/2"	

NOTE:
PANEL "A" TO HAVE 10-35 AMP DP CIR. BREAKERS
" "B" " 10-25 " DP " "
" "C" " 10-25 " DP " "
" "D" " 10-15 " DP " "
PANEL "E" TO HAVE 10-15 " DP CIR. BREAKERS & 2-20 AMP DP BREAKERS ON LIN # E-2 & E-5 AND 1-21 AMP DP BREAKER ON LIN # E-1
10-20 " 3P CIR. BREAKERS ALSO PROVIDE SPACE ONLY FOR 3-20 AMP 3P BREAKERS
SIZE OF BREAKERS FOR NOTED SHALL BE SELECTED TO SUIT EQUIPMENT FURNISHED

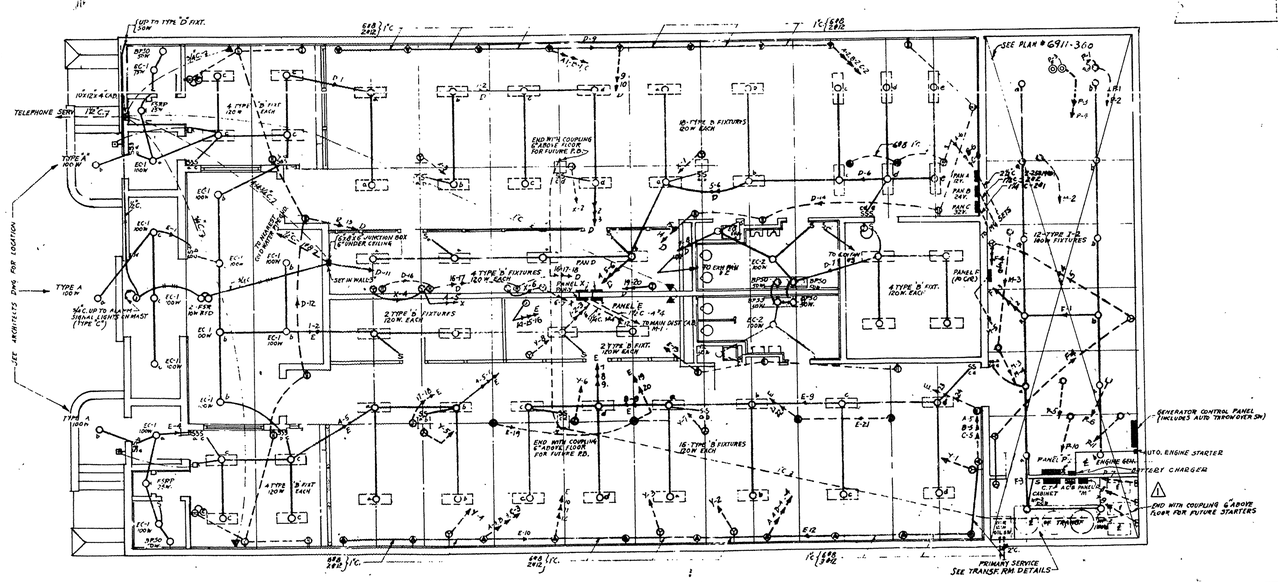


WIRING DIAGRAM

TRANSFORMER ROOM LAYOUT
SCALE 1/8"=1'-0"



DETAIL OF ENGINE EXHAUST



PLAN
Scale ⅛"=1'-0"

KEY	DATE		REV.BY	CK.BY	AP.BY
	11/8/43	"As-built" Revisions — J.R.W. & Co.			
1	10/31/41	Westinghouse Meter installation added.	J.R.W.	J.C.	J.R.B.

(Revisions indicated by △)

AS-BUILT DRAWING
20 APRIL 1942
E. W. Garbisch
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER

CONTRACT NO. W-699-eng-1532

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT AND INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
ELECTRICAL

IN SHEETS SCALE: 1/2 IN. = 1 FT. SHEET NO. 7

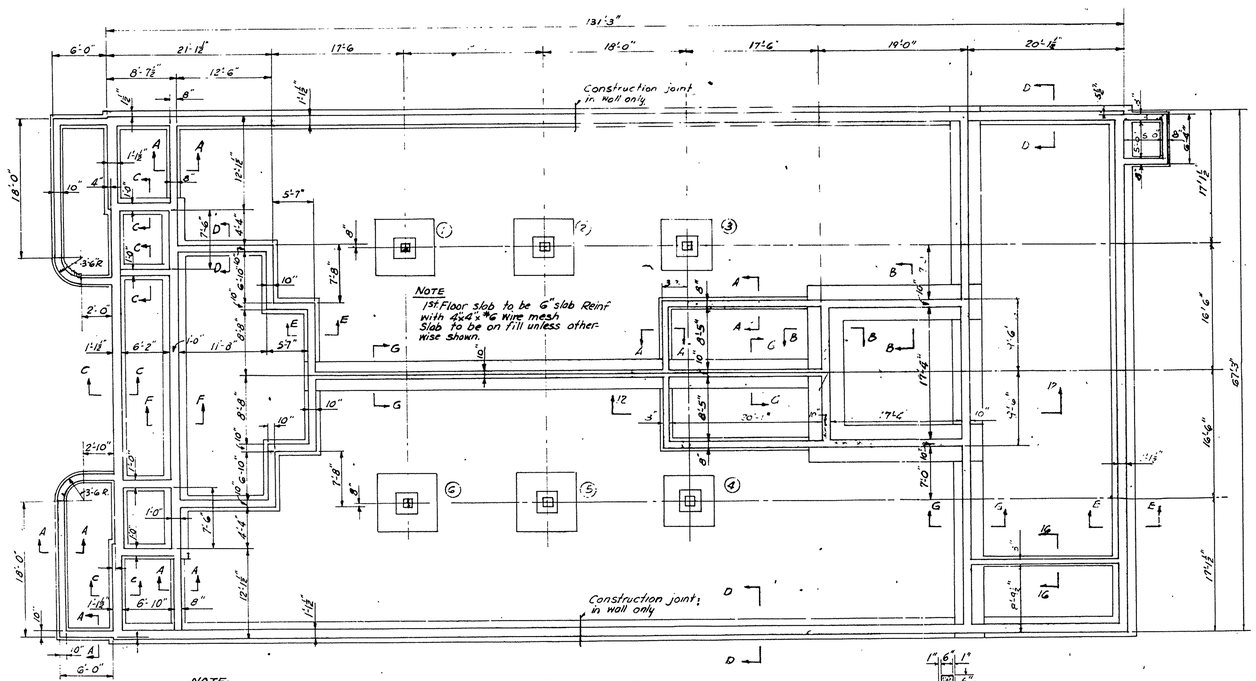
U.S. ENGINEER OFFICE, PROVIDENCE, R.I., JUNE, 1941

SUBMITTED: John C. Fitzgerald, ENGINEER, HEAD, DESIGN SECTION
APPROVAL RECOMMENDED: J.R. Burns, PRINCIPAL ENGINEER, CHIEF, ENGINEERING DIV.
APPROVED: Howard L. Peterson, LT. COL. CORPS OF ENGINEERS, DISTRICT ENGINEER

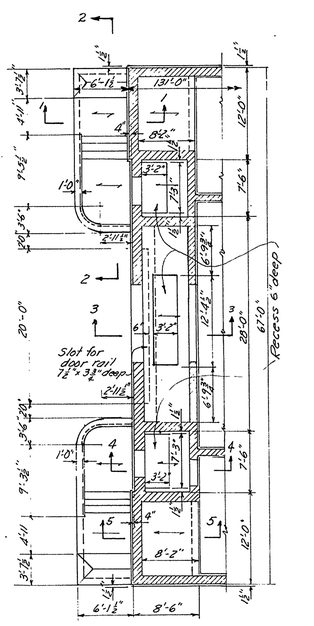
DESIGN SECTION: E.W. Uner, ASSOC. ENGINEER
DRAWN: G. PAPP
TRACED: R.H.W.
CHECKED: J.C.F.
O.M.S. DWG. NO. 628-107
FILE NO. WO-4-1140

WAR DEPARTMENT

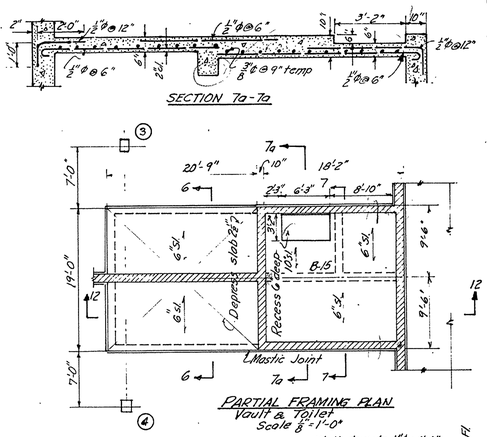
CORPS OF ENGINEERS, U.S. ARMY



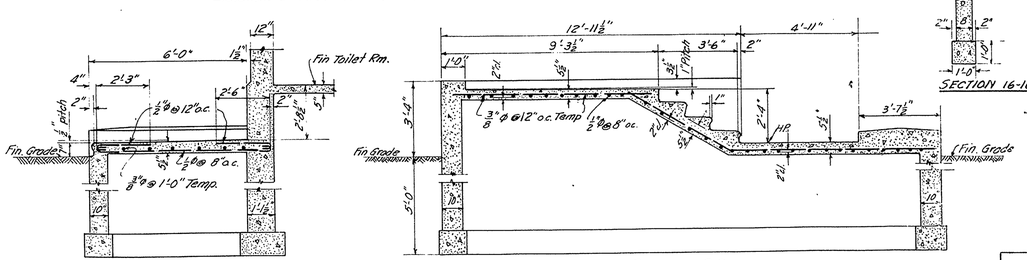
FOOTING PLAN
Scale: 1/8"-1'-0"



PARTIAL FRAMING PLAN
For wall openings see Arch Dwgs.
Scale 1/8"-1'-0"



PARTIAL FRAMING PLAN
Vault & Toilet
Scale 1/8"-1'-0"



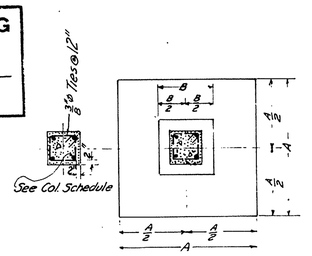
DETAILS
Scale 3/4"-1'-0"

SECTION 3-3

SECTION 4-4

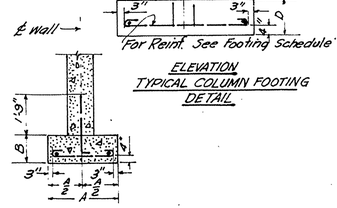
SECTION 5-5

AS-BUILT DRAWING
20 APRIL 1942
E.W. Garbisch Inc.
E. W. GARBISCH
LT. COL. CORPS OF ENGINEERS
DISTRICT ENGINEER
CONTRACT NO. W-699-eng-1532

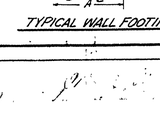


WALL FOOTING SCHEDULE			
A	B	Reinf.	SCHEDULE
1'-4"	1'-0"	None	SECTION A-A
4'-9"	1'-6"	½ø @ 4 o.c.	" B-B
2'-0"	1'-0"	None	" C-C
2'-4"	1'-0"	None	" D-D
3'-0"	1'-4"	None	" E-E
3'-0"	1'-3"	None	" F-F
3'-9"	1'-2"	½ø @ 4 o.c.	" G-G

COLUMN SCHEDULE		
Col. No	1-2-5 #G	3 #4
Ful. Roof Size		
Vert bars	Fabric	
Ties		
Pres. Roof Size	16"x16"	16"x16"
Vert bars	4-1½ø	4-1ø
Ties	⅜ø @ 12"	⅜ø @ 12"
Top of Pedestal	17'-6"	



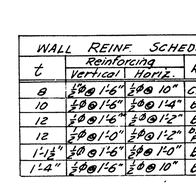
ELEVATION
TYPICAL COLUMN FOOTING DETAIL



TYPICAL WALL FOOTING

COLUMN FOOTING SCHEDULE						
Col. Nº	A	B	C	D	Reinf. ea. way	Dowels
3 #4	7'-0"	2'-9"	21"	18"	16-½"ø	4-1ø 6'-0"
1-2-5-6	7'-9"	2'-9"	24"	18"	25-½"ø	4-1½ø 6'-5"

WALL REINF. SCHEDULE			
t	Reinforcing Vertical	Reinforcing Horiz.	Remarks
8	½ø @ 1'-6"	½ø @ 10"	ctr. wall
10	½ø @ 1'-6"	½ø @ 1'-4"	both faces
12	½ø @ 1'-6"	½ø @ 1'-2"	both faces
12	½ø @ 1'-0"	½ø @ 1'-2"	both faces Front Wall
1'-1½"	½ø @ 1'-6"	½ø @ 1'-0"	both faces
1'-4"	½ø @ 1'-6"	½ø @ 10"	both faces



TYPICAL WALL SECTION

GENERAL NOTES

Structural Dwgs. to be used in conjunction with Arch. Dwgs. and Specifications.
Construction joints to be located where shown. Additional joints may be used on approval the Contracting Officer.
Bearing value of Soil 4000 lbs. per ft²

NO.	DATE	REVISION (INDICATED BY △)	DEV. BY	CK. BY	A.P. BY
1	11/6/43	"As-built" Revisions — J.R.W. & Co.			

WESTOVER FIELD
CHICOPEE FALLS, MASS.
ARMAMENT & INSTRUMENT INSPECTION AND ADJUSTMENT BUILDING
STRUCTURAL — FOOTING PLAN

IN SHEETS | SCALE 1/8IN. = 1 FT. | SHEET NO. 9

U. S. ENGINEER OFFICE, PROVIDENCE, R.I. JUNE, 1941

SUBMITTED: ENGINEER, HEAD, DESIGN SECTION
APPROVAL RECOMMENDED: PRINCIPAL ENGINEER, CHIEF, ENGINEERING DIV.
APPROVED: LT. COL. CORPS OF ENGINEERS, DISTRICT ENGINEER

DESIGN SECTION: E.M. Uhler, ASSOC. ENGINEER
DRAWN: V.H. E. D. J.
TRACED: J.
CHECKED:

FILE NO. WO 4-1142