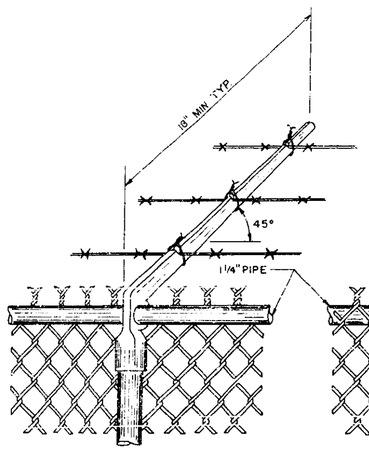
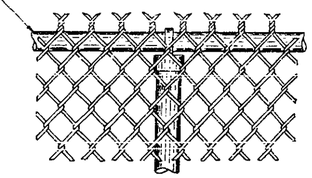
APPENDIX 03

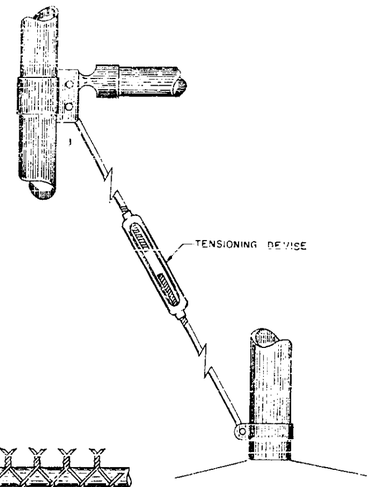
As-Built Drawings



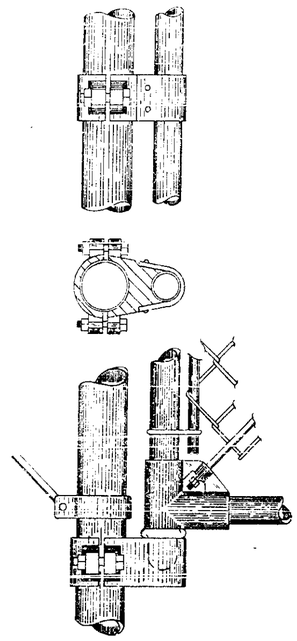
BARB WIRE OUTRIGGER



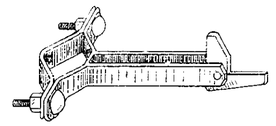
TWISTED AND BARBED SELVAGE



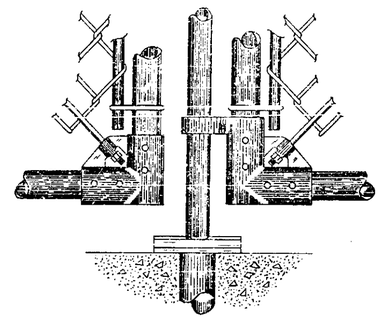
BRACE AND TRUSS CONNECTIONS



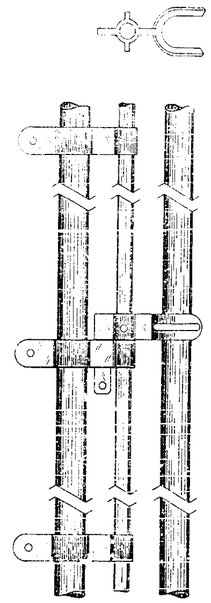
TOP AND BOTTOM GATE HINGE AND GATE DETAILS



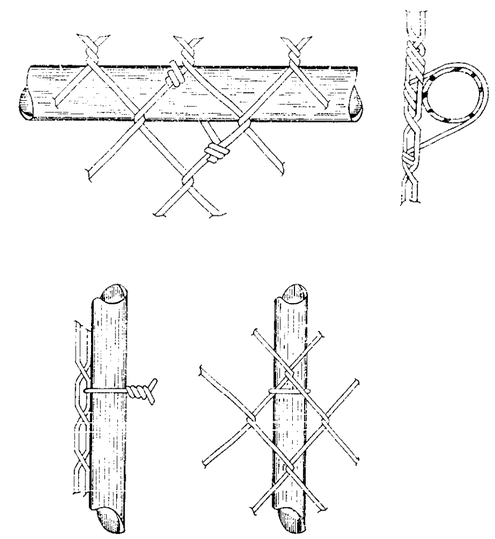
GATE HOLD BACK



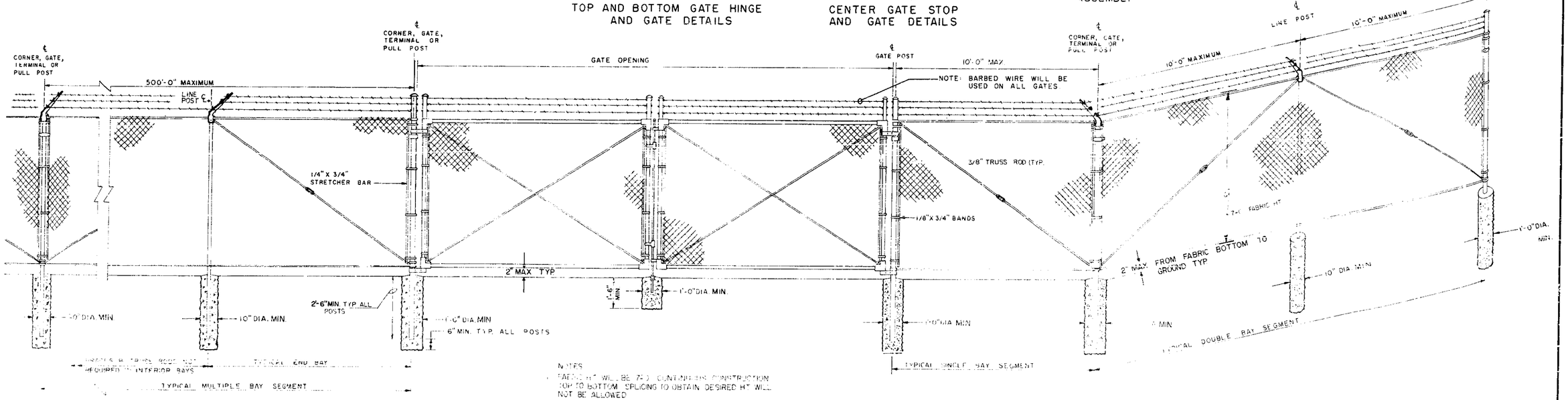
CENTER GATE STOP AND GATE DETAILS



DROP ROD ASSEMBLY



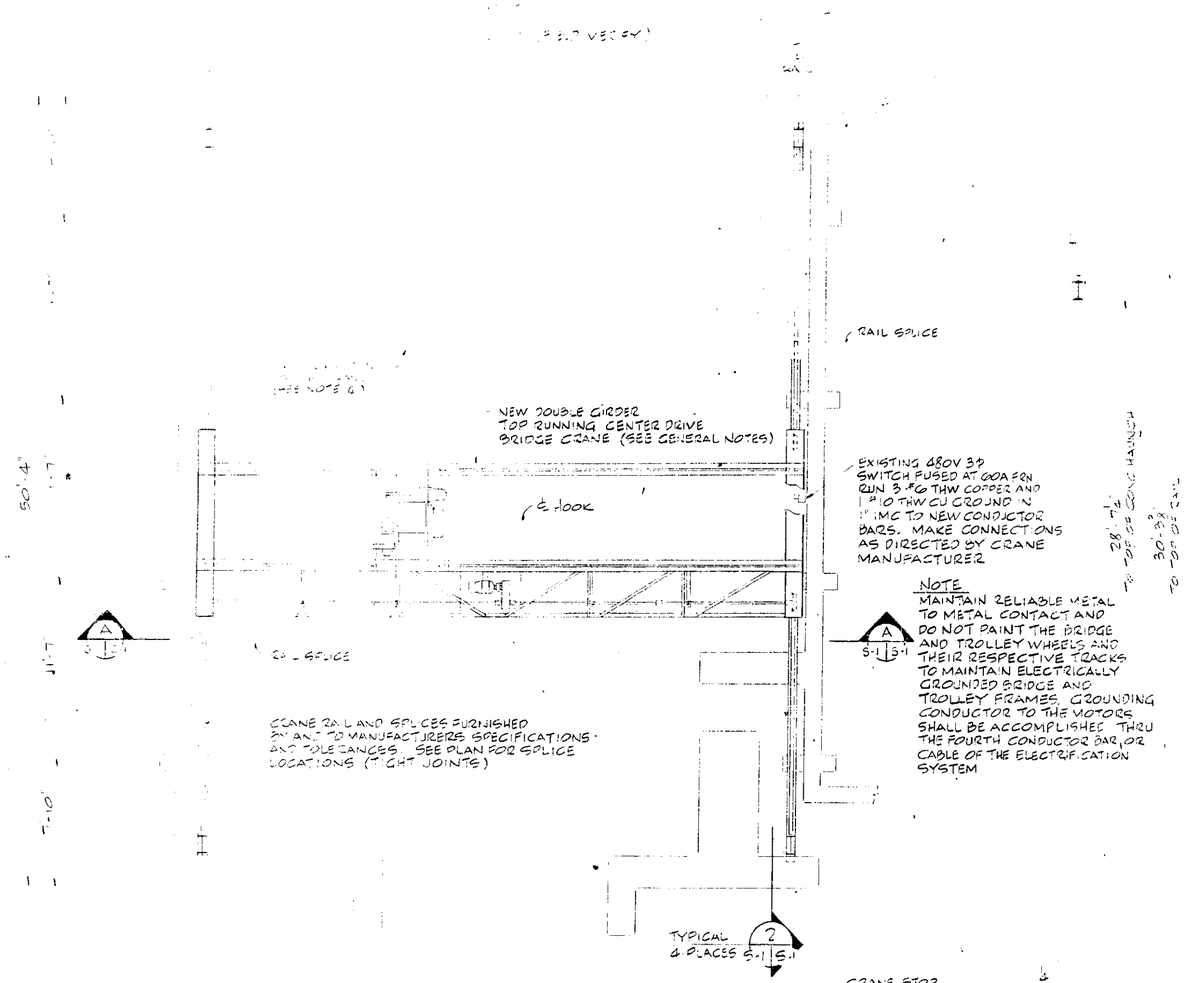
PIPE POST TIE DETAILS



NOTES

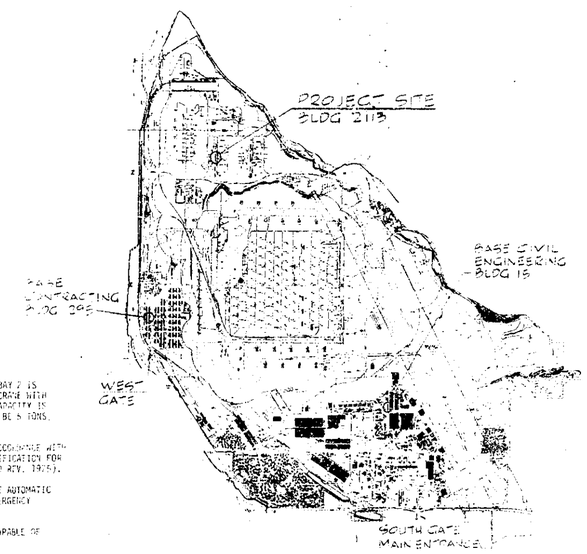
1. FABRIC HT WILL BE 7'-0" CONTINUOUS CONSTRUCTION TOP TO BOTTOM. SPLICING TO OBTAIN DESIRED HT WILL NOT BE ALLOWED
2. 1 1/4" MIN. TOP RAIL TO BE PROVIDED & INSTALLED.
3. TERMINAL, END, CORNER, AND PULL POSTS WILL BE 2 1/2" DIAMETER MIN. & 10' LONG MIN.
4. LINE POSTS WILL BE 2" DIAMETER MIN. 9'-8" LONG MIN.
5. CONTRACTOR [illegible]

DEPARTMENT OF THE AIR FORCE OGDEN AIR LOGISTICS CENTER OFFICE OF CIVIL ENGINEERING			
D. MURRAY P. SCOTT 23 APRIL 91	INSTALL CHAIN-LINK FENCE BLDG. 2113 FENCE DETAILS		
			912047
			NONE



NOTE
MAINTAIN RELIABLE METAL TO METAL CONTACT AND DO NOT PAINT THE BRIDGE AND TROLLEY WHEELS AND THEIR RESPECTIVE TRACKS TO MAINTAIN ELECTRICALLY GROUNDED BRIDGE AND TROLLEY FRAMES. GROUNDING CONDUCTOR TO THE MOTORS SHALL BE ACCOMPLISHED THRU THE FOURTH CONDUCTOR BAR, OR CABLE OF THE ELECTRIFICATION SYSTEM

SECTION



GENERAL NOTES

1. EXISTING 5-TON BRIDGE CRANE ON THE EAST SIDE OF BAY 2 IS TO BE REMOVED AND REPLACED WITH A 20-TON BRIDGE CRANE WITH TWO INDEPENDENTLY OPERATED HOISTS. MAIN HOIST CAPACITY IS TO BE 12 TONS AND AUXILIARY HOIST CAPACITY IS TO BE 5 TONS.
2. BRIDGE CRANE, HOISTS AND TROLLEYS ARE TO BE IN ACCORDANCE WITH CRANE MANUFACTURER'S ASSOCIATION OF AMERICA SPECIFICATION FOR ELECTRIC OVERHEAD TRAVELING CRANE (CMAA SPEC. #70 REV. 1975).
3. MAIN AND AUXILIARY HOISTS AND TROLLEYS SHALL HAVE AUTOMATIC SELF-ENERGIZING, DOUBLE BRAKE SYSTEMS WITH AN EMERGENCY STOP BUTTON.
4. THE HOOK ON MAIN AND AUXILIARY HOISTS SHALL BE CAPABLE OF REACHING THE FLOOR.
5. SERVICE INFORMATION: CMAA CLASS "C".
6. THE EXISTING 5-TON BRIDGE CRANE ON THE WEST SIDE OF BAY 2 IS TO REMAIN AND BE RELOCATED ON THE NEW [illegible] AND BE CONNECTED TO THE NEW ELECTRIFICATION.

STRUCTURAL NOTES

1. ALL STRUCTURAL STEEL TO HAVE A MINIMUM YIELD STRENGTH OF 36 KSI.
2. THE WHEEL LOADS FROM THE NEW AND EXISTING BRIDGE CRANE USED FOR DESIGNING BRIDGE BEAMS AND CHECKING THE CAPACITY OF THE EXISTING STRUCTURE ARE TO INCLUDED BELOW (INCLUDED IN [illegible]). THE ACTUAL WHEEL LOADS AND WHEELS SPACING SHALL BE [illegible] THE CRANE MANUFACTURER [illegible]

GRAPHIC SCALE 1" = 50'

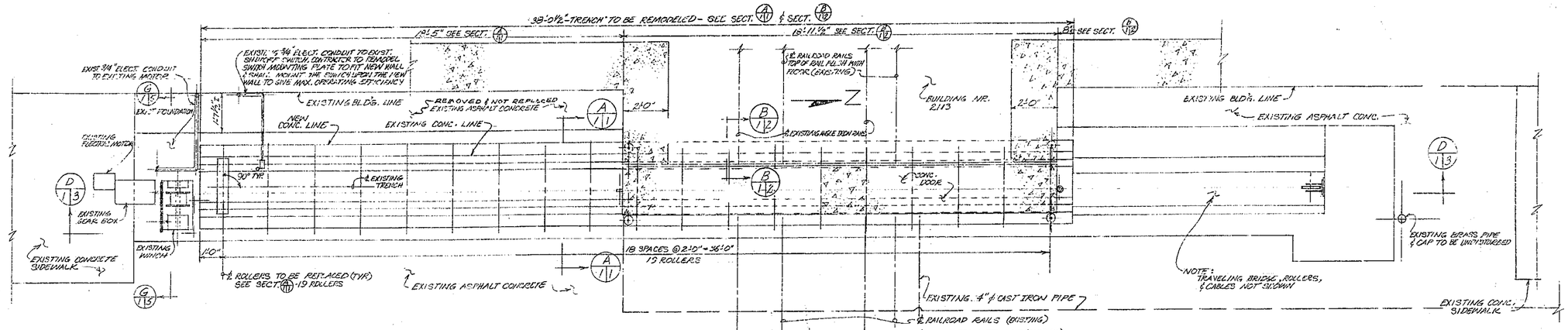
13 NOV 87	AS-BUILT		PHS
REVISION DATE	DESCRIPTION		

DEPARTMENT OF THE AIR FORCE
OGDEN AIR LOGISTICS CENTER
OFFICE OF CIVIL ENGINEERING

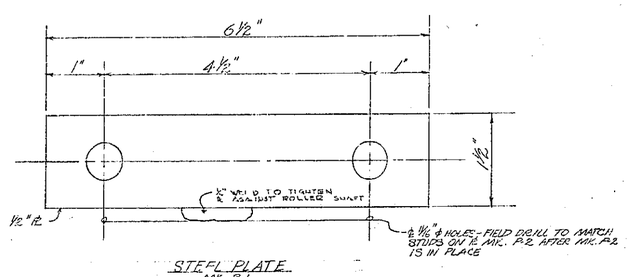
INSTALLATION OF BRIDGE CRANE
IN BAY 2 BUILDING 2113
HILL AIR FORCE BASE, UTAH

LOCATION MAP PLANS AND SECTIONS

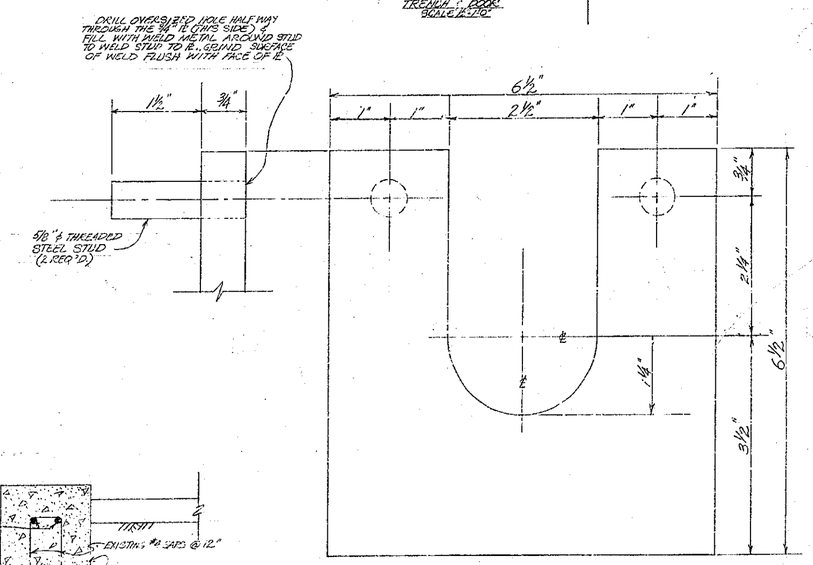
PHOTOD FROM BEST COPY AVAILABLE



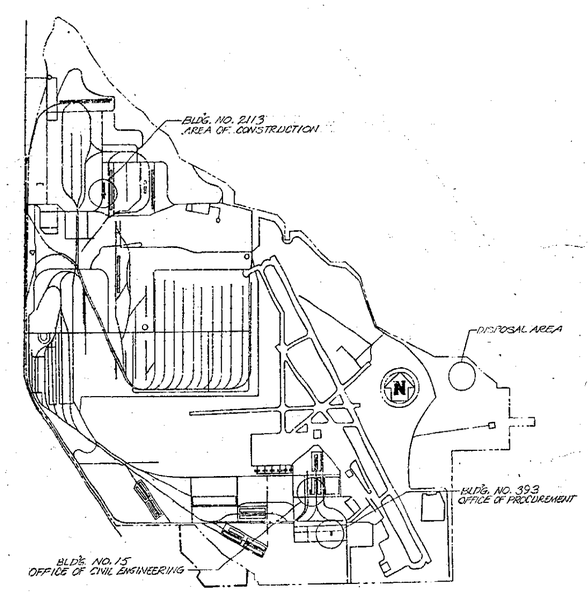
PLAN
TRENCH & DOOR
SCALE 1/8"=1'-0"



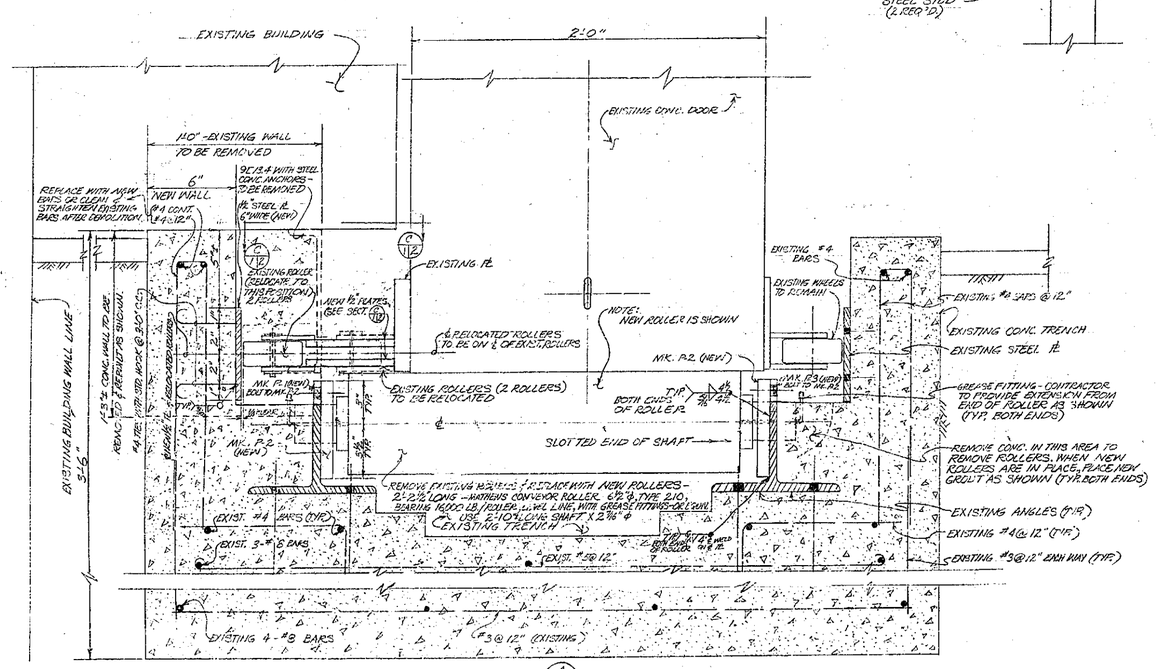
STEEL PLATE
MK. P-1
18 REQ'D.
SCALE - NONE



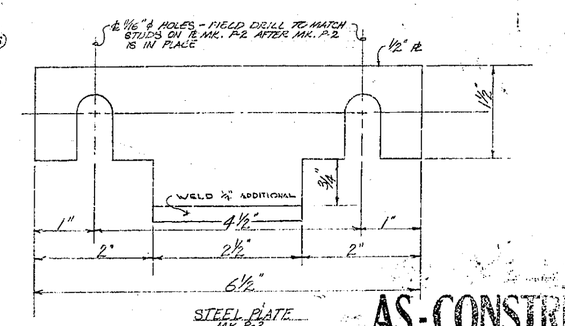
STEEL PLATE
MK. P-2
88 REQ'D.
SCALE - NONE



VICINITY MAP HILL AIR FORCE BASE
NO SCALE



SECTION A/11
SCALE 3/4"=1'-0"



STEEL PLATE
MK. P-3
18 REQ'D.
SCALE - NONE

AS-CONSTRUCTED

PROJECT HILL 25 8

REV NO	DATE	DESCRIPTION	BY
1	FEB 67	"AS-BUILTS"	LTP

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIEL AREA
OFFICE OF CIVIL ENGINEERING
HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY L. WINTER
DRAWN BY L. WINTER
APPROVED BY E. Hunt BAE
CHECKED BY — DATE
APPROVED BY — DATE
SUBMITTED — DATE 19 Oct 66
APPROVAL RECOMMENDED
APPROVED
APPROVED — DATE 19 OCT 66
APPROVED — DATE 19 OCT 66
APPROVED — DATE 20 OCT 66

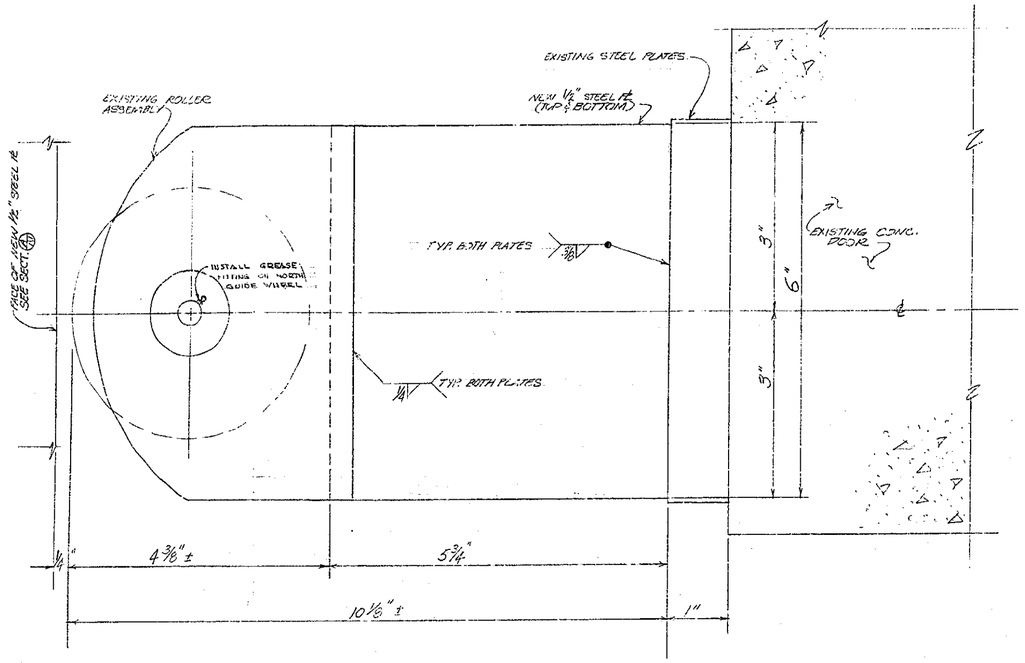
REMODEL RADIATION PROOF DOOR OPERATING FACILITIES
BUILDING NR. 2113
VICINITY MAP—PLAN AND SECTIONS

WORK ORDER NO. 102-7
PROJECT NO. HIL 25-8
DRAWING NUMBER 67-6524
SHEET 1 OF 3 SCALE AS NOTED

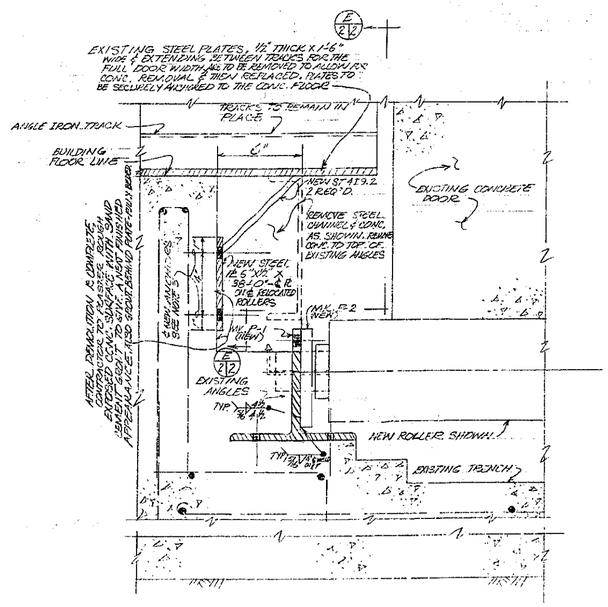
106-105

2113-'67-5

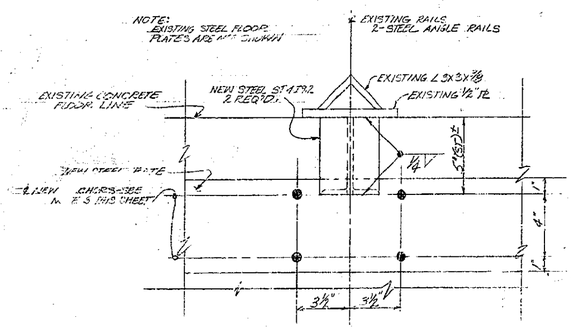
49-73



SECTION E/212
TYPICAL CONSTRUCTION - 2 PLACES
SCALE - 1"=1'0"



SECTION E/212
SCALE 1"=1'-0"



ELEVATION E/212
TYPICAL CONSTRUCTION
SCALE - NONE

Concrete Notes

1. Design: Unless otherwise indicated, the details of design, fabrication, and construction of steel reinforced concrete shall conform to American Concrete Institute Standard 318-63.
2. Concrete Materials: Cement shall be a standard brand of portland cement, Type I or Type II conforming to Federal Specification SS-C-192, latest edition. Acceptance of cement will be based upon the manufacturer's mill certificate of compliance with specification requirements. Aggregates shall consist of natural sands and gravels, crushed rock, crushed slag, or other inert materials having clean, uncoated grains of strong durable minerals, conforming to Federal Specification SS-A-281b. Coarse aggregate gradation shall be 1-1/2 inch to number 4 except the maximum size of coarse aggregate shall not exceed 3/4 of the minimum clear spacing between reinforcing bars. Water used in mixing concrete shall be clean and free from deleterious amounts of acids, alkalis, or organic materials.
3. Metal Reinforcement: Reinforcing bars shall conform to the requirements of Federal Specification QQ-S-632, type II, Class 840. Wire fabric reinforcement shall conform to ASTM Designation A-185 for the sizes indicated.
4. Concrete Quality: Concrete shall have a compressive strength of 3000 pounds per square inch at 28 days. Water content shall not be more than 6 gallons per 94 pound sack of cement. This is total liquid content. Each cubic yard of concrete shall have a minimum of six (94 pound) sacks of cement. Maximum slump shall be 4 inches. Ready-Mixed concrete shall conform to Standard Specifications ASTM C-94.
5. Forms: Forms may be made of wood, metal, or other approved materials selected to produce the specified surface finish. Forms shall be sufficiently tight to prevent leakage of the mortar and shall be properly braced or tied together so as to maintain position and shape. Forms shall be removed in such a manner and such a time as to insure complete safety of the structure.
6. Cold Weather Requirements: All concrete materials, reinforcement, forms, and ground with which the concrete is to come in contact shall be frost free. Whenever the temperature of the surrounding air is below 35 degrees F. all concrete placed in the forms shall have a temperature between 50 degrees F. and 73 degrees F. and adequate means shall be provided for maintaining a temperature of not less than 50 degrees F. for 72 hours and at a temperature above freezing for the remainder of the curing period.
7. Concrete Surfaces: The concrete shall be finished monolithically to a smooth, level surface by floating and steel troweling. The finished surfaces of all concrete shall be free from aggregate pockets or honeycomb. Where minor defects appear, they shall be repaired while the concrete is still green by painting with a neat cement grout, and patched with a one to one cement and sand mixture and finished to match adjacent areas. All ties, wires, nails, and etc., shall be cut off at least 1/2" back of the surface face and the holes patched as described above.
8. Curing: All concrete shall be cured for a period of not less than seven days by keeping all surfaces wet by sprinkling. Membrane compound curing may be used in lieu of water curing on approval of the Contracting Officer.
9. Air Entrainment: Air entraining agents conforming to ASTM Designation C260-58T, except the limitation and test on bleeding by concrete containing the agent, shall be used to provide an air content of 3 to 6 percent of the volume of the concrete. Air content shall be determined by ASTM Standard C-231.
10. Depositing: Concrete shall be deposited in accordance with ACI 318.
11. Loading: No loads shall be placed upon the concrete for a period of seven days from time of placing. From seven to twenty-eight days the concrete may be loaded with light loads upon approval of the Contracting Officer. After twenty-eight days the full design load may be placed upon the concrete.
12. Shop Drawings: Shop detail drawings and placing drawings for reinforcing steel shall be submitted to the Contracting Officer for approval. Material shall not be fabricated or delivered to the construction site before the approved shop drawings have been received by the contractor.

Structural Steel & Paint Notes

1. Structural steel shall be ASTM Standard A-36.
2. Fabrication and erection to be in accordance with current American Institute of Steel Construction Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings, and the AISC Code of Standard Practice except welder qualification tests.
3. The contractor shall be responsible for all errors of detailing, fabrication, and for the correct fitting of structural members.
4. All holes are to be punched or drilled. None are to be burned.
5. All welds to be by the Shielded Metal Arc Process and develop full strength of connected members. Welding shall comply to the AWS Code for Welding in Building Construction except welder qualification tests.
6. All assembly bolts to be high strength steel with one cut and one carburized washer each. Bolts, nuts, and washers to conform to ASTM Specification A-325. One beveled washer to be furnished when bolting to the flange of a channel or I-beam. Washer to be placed under the nut. Installation of bolts shall conform to AISC Specifications for Structural Joints using ASTM A325 Bolts, latest edition.
7. All completed steel is to be clearly stenciled with mark number and face number, if any, as indicated upon the drawings.
8. Structural materials shall be stored above the ground upon platforms, skids, or other supports. Materials shall be kept free from foreign material including dirt and grease and shall be protected from corrosion.
9. The contractor shall furnish all materials, clean all surfaces, and apply paint in accordance with the AISC code of Standard Practice with the following modifications:
   a. After washing with mineral spirits or xylol and clean wiping material to remove oil and grease, the steel shall be allowed to dry and then shall be sandblasted or chipped and wire brushed to remove all rust, loose millscale, weld flux and slag, and foreign material.
   b. Three coats of paint shall be applied to the clean, dry steel surface. Prime coat to be Red Lead, Federal Specification TT-P-86C, Type II, or equal, field applied to a minimum dry thickness of 1.0 mills. Paint shall be dry to the touch before each additional coat is applied. Second and third coats to be one of the following, each coat applied to a minimum dry thickness of 1.3 mills and * field applied except as noted in 9d below:
      (1) Aluminum paint - Federal Specification TT-P-38a. Tint first coat of aluminum paint.
      (2) Exterior Oil Paint - Federal Specification TT-P-102. Color and type of paint as shown by (b-1) or (b-2) above shall be chosen by the Contracting Officer.
   c. Any items or surfaces damaged or contaminated by the painting operations shall be returned to their original condition by and at the expense of the contractor.
   d. All steel, to be placed in a confined area where fumes from the painting operations could accumulate in such quantity as to become injurious or objectionable to workers or tenants, as determined by the Contracting Officer, shall have all coats of paint shop applied with only paint repair of small areas done in the field.
10. When the steel is in its final position in the completed structure, all areas of paint damage shall be cleaned to bare metal and the above described painting procedure shall be used to repair the damaged areas to their condition before damage. The contractor shall repair damaged areas to equal and color match undamaged areas. Also, all unpainted areas of the steel (including field welds, erection bolts, etc) after erection, shall be cleaned and painted as described above.
11. The contractor shall leave the job site in a clean and acceptable condition after the work is completed.
12. Shop drawings shall be submitted for approval and shall include all shop and erection details. All welds shall be indicated by standard welding symbols in the American Welding Society Standard Code for Arc & Gas Welding in Building Construction. Material shall not be fabricated or delivered to the site before approved shop drawings have been returned to the contractor.

* The term "field" means the contractor shall accomplish the work on the job site

NOTES:

1. EXISTING ROLLER SHAFTS ARE WELDED TO L'S AT BOTH ENDS. WELDS TO BE BROKEN, TO REMOVE ROLLERS, WITH A MINIMUM OF DAMAGE TO THE EXISTING STEEL ANGLES.
2. NEW GROUT TO BE PLACED AT ENDS OF NEW ROLLER SHAFTS. SHALL BE A SMOOTH CONSISTENT GROUT - 1 PART PORTLAND CEMENT TO 2 PARTS SAND, AND ENOUGH WATER TO PROVIDE A MAXIMUM WATER-CEMENT RATIO OF 0.50. SURFACES TO RECEIVE GROUT SHALL BE CLEAN & SHALL BE MOISTENED BEFORE PLACEMENT OF THE GROUT. GROUT SHALL BE CURED FOR SEVEN DAYS.
3. ANCHORS TO BE 3/4" ø, TYPE 2, THREE UNIT THREADED RING WEDGE. CINCH ANCHORS OR EQUIV. WITH 3/8 ø RECES. DRILL 1 1/8" ø HOLES THREE INCHES DEEP, 4 REQ'D. BELOW EACH TRACK AS SHOWN (REV 1) OTHERS SPACED AT 9'-0" O.C. ACROSS 19'-7 1/2" PROOF WALL DIVISION "B" - USE ROW 1, 2, 3, 4, 5.
4. EXISTING 1/2" THICK X 1'-6" WIDE STEEL FLOOR PLATES (SEE SECT. A) ARE PRESENTLY WELDED TO THE SILL A WHICH IS TO BE REMOVED AND THEY ARE ALSO BOLTED TO THE BUILDING FLOOR.
5. THE TOP SURFACE OF ALL 13 ROLLERS ARE TO BE AT THE SAME ELEVATION SO THE WEIGHT OF THE CONCRETE DOOR IS EQUALLY DISTRIBUTED AMONG THE ROLLERS. (TAPERED)
6. THE TOP SURFACE OF EACH ROLLER IS TO BE LEVEL LONGITUDINALLY.
7. EXISTING CONCRETE CANOPY & GUIDE ABOVE THE EXISTING CONCRETE DOOR LEAVES LITTLE SPACE FOR JACKING THE DOOR VERTICALLY.
8. HEIGHT OF THE EXISTING CONC DOOR IS 9'-3".
9. THE LONGITUDINAL AXIS OF THE ROLLERS SHALL BE PERPENDICULAR TO THE LONGITUDINAL AXIS OF EXISTING TRENCH.
10. ELEVATION OF TOPS OF NEW ROLLERS SHALL BE CHECKED FOR ERROR BY PLACING A LONG ACCURATE METAL STRAIGHTEDGE ALONG THE TOPS OF THE NEW ROLLERS AFTER INSTALLATION.
11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & SPECS. OF THE NEW ROLLERS COMPLETE TO THE GOVERNMENT FOR APPROVAL BEFORE THE ROLLERS ARE ORDERED.
12. CONTRACTOR TO PROVIDE A TEMPORARY, WEATHER PROOF CLOSURE FOR THE CONCRETE RADIATION PROOF DOOR OPENING INTO BLDG. 2113 DURING THE CONSTRUCTION PERIOD WHICH REQUIRES THE CONCRETE RADIATION PROOF DOOR TO BE IN THE OPEN POSITION.

PROJECT HIL 25-8

REV	NO	DATE	DESCRIPTION	BY
1		27 Feb	"AS BUILTS"	LTP

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIEL AREA
OFFICE OF CIVIL ENGINEERING
HILL AIR FORCE BASE — OGDEN, UTAH

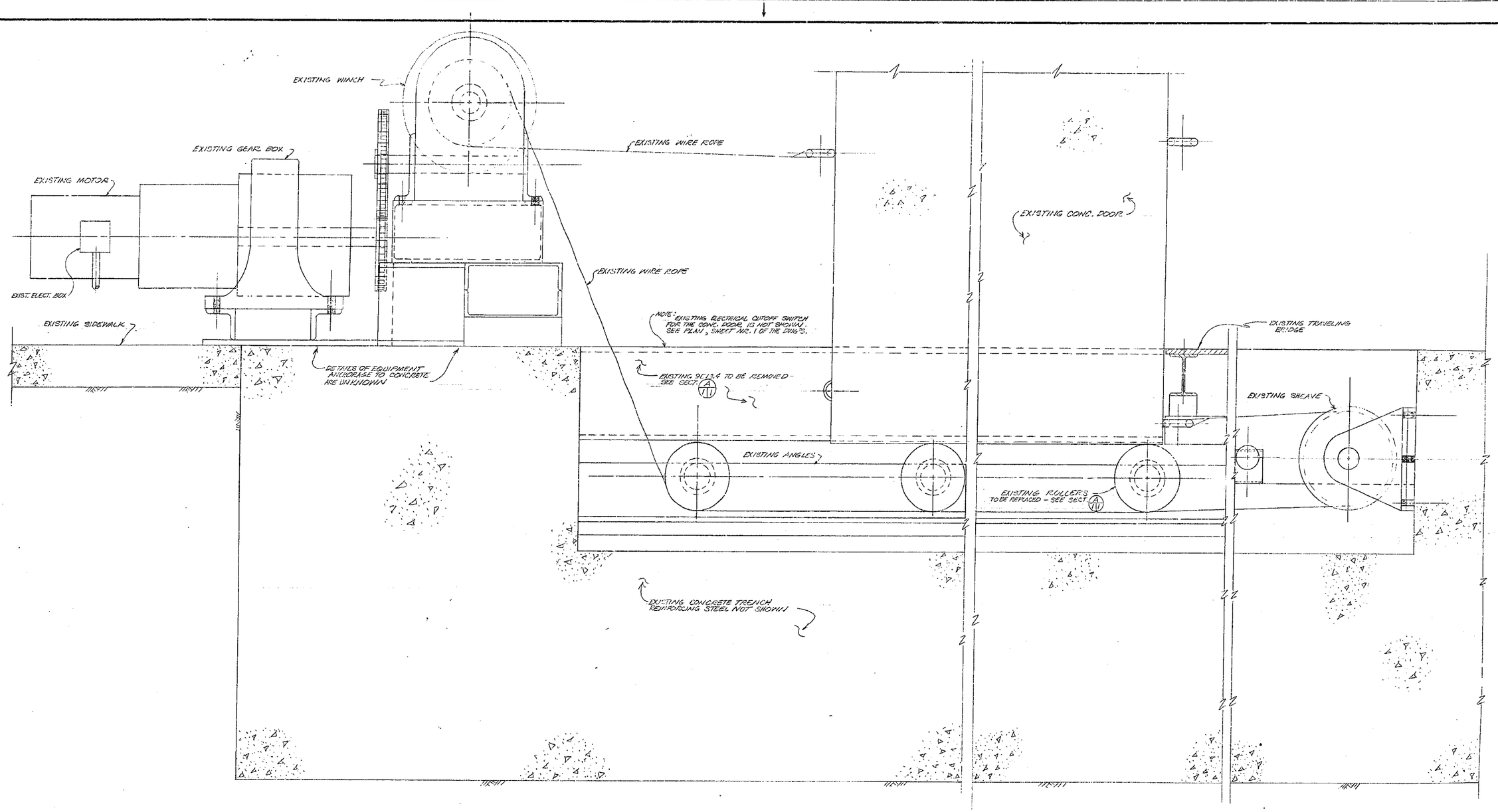
DESIGNED BY J. WINTER
DRAWN BY E. WHITED
APPROVED BY E. HUNT
CHECKED BY / DATE: DE Beck 19 Oct 1966
APPROVED BY / DATE: 19/10/66
SUBMITTED: 19/10/66 — APPROVAL RECOMMENDED: 19/10/66 — APPROVED: Robert Stewart Mayes
APPROVED: BOME 18 Oct 66
APPROVED: 13 FF 18 Oct 66
APPROVED: 20 Oct 66

REMODEL RADIATION PROOF DOOR OPERATING FACILITIES
BUILDING NR. 2113
SECTIONS, ELEVATIONS & NOTES

WORK ORDER NO. / PROJECT NO. 67-2
DRAWING NUMBER 67-6524
SHEET 2 OF 2 — SCALE 1/4" NOTED

AS-CONSTRUCTED

107-106 — 2113-67-S — 49-74



SECTION D/13
EXISTING CONSTRUCTION
SCALE 3/4"=1'-0"

PROJECT HIL 25-8

REV	W/O NO	DATE	DESCRIPTION	BY
1		27 JUL 67	"AS BUILTS"	LTP

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIEL AREA
OFFICE OF CIVIL ENGINEERING
HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY
DRAWN BY F. WINTER
REVIEWED BY F. HUNTER
CHECKED BY — DATE
APPROVED BY — DATE

REMODEL RADIATION PROOF DOOR OPERATING FACILITIES
BUILDING NO. 2113
SECTION THROUGH DOOR & PIT

SUBMITTED 19/10/66 — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE BDME 18 Oct 66
APPROVED — DATE BMR 18 Oct 66
APPROVED — DATE CBTC 20 Oct 66

WORK ORDER NO. 10-7
PROJECT NO. HIL 25-8

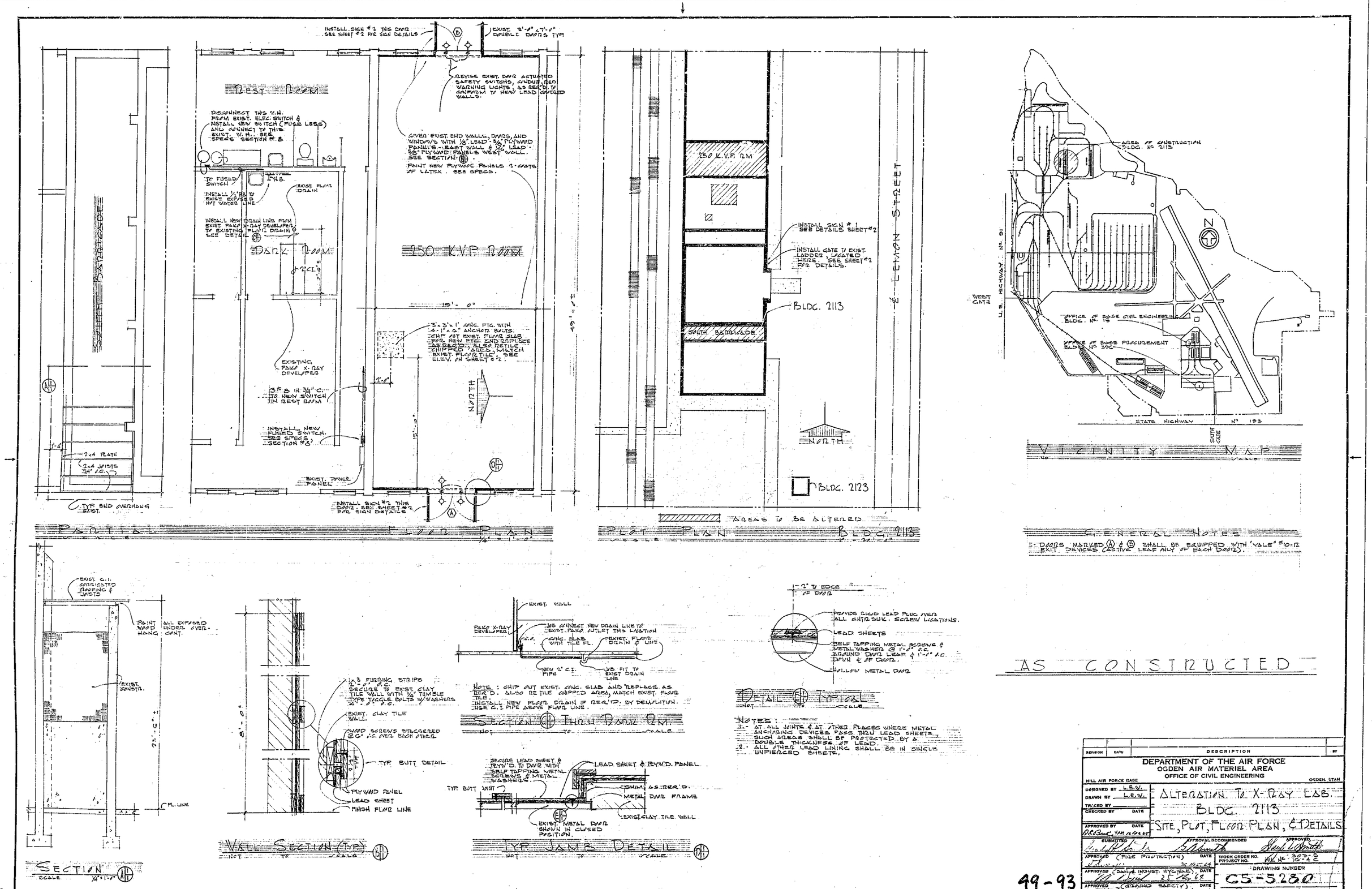
DRAWING NUMBER
67-6524
SHEET 3 OF 3 SCALE AS NOTED

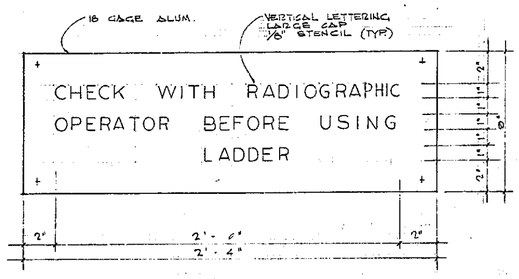
CONSTRUCTED

49-68

108 #47

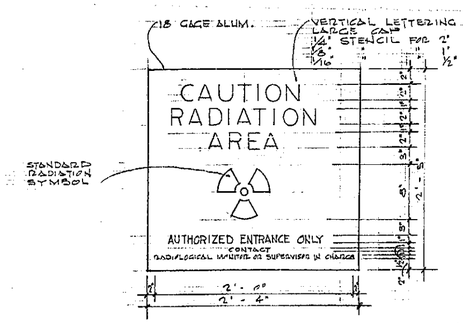
2113-67-S


INSTALL SIGN #2 THIS DOOR. SEE SHEET #2 FOR SIGN DETAILS
EXIST. 3'-6" x 7'-0" DOUBLE DOORS TYP.
REVISE EXIST. DOOR ACTUATED SAFETY SWITCHES, CONDUIT, RED WARNING LIGHTS, AS REQ'D. TO CONFORM TO NEW LEAD LINED WALLS.
REST ROOM
DISCONNECT THIS W.H. FROM EXIST. ELEC. SWITCH & INSTALL NEW SWITCH (FUSE LESS) AND CONNECT TO THIS EXIST. W.H. SEE SPECS SECTION #3
TO FUSED SWITCH
H.B.
EXIST. FLOOR DRAIN
INSTALL 1/2" H.B. TO EXIST. EXPOSED HOT WATER LINE
INSTALL NEW DRAIN LINE FROM EXIST. PANO X-RAY DEVELOPER TO EXISTING FLOOR DRAIN SEE DETAIL
DARK ROOM
250 K.V.P. ROOM
COVER EXIST. END WALLS, DOORS, AND WINDOWS WITH 1/8" LEAD - 3/8" PLYWOOD PANELS - EAST WALL & 1/16" LEAD - 3/8" PLYWOOD PANELS WEST WALL. SEE SECTION
PAINT NEW PLYWOOD PANELS 2 COATS OF LATEX. SEE SPECS.
15'-0"
3' x 3' x 1' CONC. FTG. WITH 1/2" x 6" ANCHOR BOLTS. CHIP OUT EXIST. FLOOR SLAB FOR NEW FTG. GRND. & REPLACE AS REQ'D. ALSO RETILE CHIPPED AREAS, MATCH EXIST. FLOOR TILE. SEE ELEV. ON SHEET #2.
EXISTING PANO X-RAY DEVELOPER
3/4" S IN 3/4" C. TO NEW SWITCH IN REST ROOM
INSTALL NEW FUSED SWITCH. SEE SPECS. SECTION #3
EXIST. POWER PANEL
INSTALL SIGN #2 THIS DOOR. SEE SHEET #2 FOR SIGN DETAILS
NORTH
SOUTH BARRICADE
2x4 PLATE
2x4 JOISTS 24" O.C.
TYP. END OVERHANG EXIST.
PARTIAL FLOOR PLAN
1/4" = 1'-0"
250 K.V.P. ROOM
INSTALL SIGN #1 SEE DETAILS SHEET #2
INSTALL GATE TO EXIST. LADDER, LOCATED HERE. SEE SHEET #2 FOR DETAILS.
BLDG. 2113
SOUTH BARRICADE
LEMON STREET
NORTH
BLDG. 2123
AREAS TO BE ALTERED
PLOT PLAN BLDG. 2113
AREA OF CONSTRUCTION BLDG. No 2113
U.S. HIGHWAY No. 91
WEST GATE
OFFICE OF BASE CIVIL ENGINEERING BLDG. No. 15
OFFICE OF BASE PROCUREMENT BLDG. No 396
STATE HIGHWAY No 193
SOUTH GATE
VICINITY MAP
GENERAL NOTES
1- DOORS MARKED (A) & (B) SHALL BE EQUIPPED WITH "YALE" #10-12 EXIT DEVICES (ACTIVE LEAF ONLY OF EACH DOOR).
EXIST. C.I. CORRUGATED ROOFING & JOISTS
PAINT ALL EXPOSED WOOD UNDER OVER-HANG CONT.
EXIST. CONSTR.
25'-0"
8'-0"
PL. LINE
SECTION
SCALE 1/4" = 1'-0"
1x3 FURRING STRIPS 2'-0" O.C. SECURE TO EXIST. CLAY TILE WALL WITH 1/2" TUMBLE TYPE TOGGLE BOLTS W/WASHERS 2'-0" O.C.
EXIST. CLAY TILE WALL
WOOD SCREWS STAGGERED @ 6" O.C. OVER EACH STRUT.
TYP. BUTT DETAIL
PLYWOOD PANEL
LEAD SHEET
FINISH FLOOR LINE
WALL SECTION (TYP)
NOT TO SCALE
EXIST. WALL
PANO X-RAY DEVELOPER
C.O.
CONC. SLAB WITH TILE FL.
EXIST. FLOOR DRAIN & LINE
JOB CONNECT NEW DRAIN LINE TO EXIST. PANO. OUTLET THIS LOCATION
NEW 2" C.I. PIPE
JOB FIT TO EXIST DRAIN LINE
NOTE: CHIP OUT EXIST. CONC. SLAB AND REPLACE AS REQ'D. ALSO RE TILE CHIPPED AREA, MATCH EXIST. FLOOR TILE. INSTALL NEW FLOOR DRAIN IF REQ'D. BY DEMOLITION. USE C.I. PIPE ABOVE FLOOR LINE.
SECTION THRU PANO RM.
NOT TO SCALE
SECURE LEAD SHEET & PLYW'D. TO DOOR WITH SELF TAPPING METAL SCREWS & METAL WASHERS.
LEAD SHEET & PLYW'D. PANEL
TYP. BUTT JOINT
SHIM AS REQ'D.
METAL DOOR FRAME
EXIST. CLAY TILE WALL
EXIST. METAL DOOR SHOWN IN CLOSED POSITION.
TYP. JAMB DETAIL
NOT TO SCALE
2" TO EDGE OF DOOR
PROVIDE RIGID LEAD PLUG OVER ALL ANCHORS. SCREW LOCATIONS.
LEAD SHEETS
SELF TAPPING METAL SCREWS & METAL WASHER @ 1'-0" O.C. AROUND DOOR LEAF & 1'-0" O.C. DOWN EDGE OF DOOR.
HOLLOW METAL DOOR
DETAIL TYPICAL
NOT TO SCALE
NOTES:
1.- AT ALL JOINTS & AT OTHER PLACES WHERE METAL ANCHORING DEVICES PASS THRU LEAD SHEETS, SUCH AREAS SHALL BE PROTECTED BY A DOUBLE THICKNESS OF LEAD.
2.- ALL OTHER LEAD LINING SHALL BE IN SINGLE UNPIERCED SHEETS.
AS CONSTRUCTED
REVISION | DATE | DESCRIPTION | BY
DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIEL AREA
OFFICE OF CIVIL ENGINEERING
HILL AIR FORCE BASE
OGDEN, UTAH
DESIGNED BY L.E.V.
DRAWN BY L.E.V.
TRACED BY
CHECKED BY DATE
APPROVED BY DATE
ALTERATION TO X-RAY LAB. BLDG. 2113
SITE, PLOT, FLOOR PLAN, & DETAILS
SUBMITTED
APPROVAL RECOMMENDED
APPROVED
APPROVED (FIRE PROTECTION) DATE
APPROVED (SANITARY INDUST. HYGIENE) DATE
APPROVED (GROUND SAFETY) DATE
WORK ORDER NO.
PROJECT NO.
DRAWING NUMBER
C5-5280
SHEET 1 OF 2 SCALE NOTED
49-93
2113-65-A
5280-1



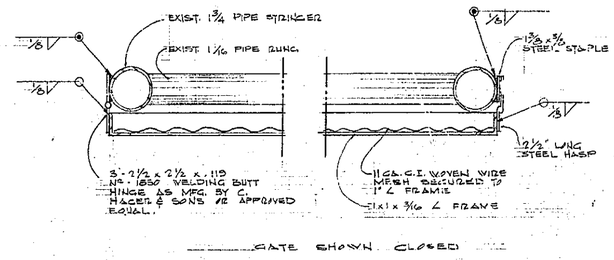
SIGN DETAIL #1

NOTE:
1. SEE SPECS. FOR PAINT FINISH
2. SIGN TO BE LOCATED AS SHOWN AT GATE ELEV.
3. SECURE TO CONC. WALL WITH 4-3/16 x 1¼ LONG LAG BOLTS WITH EXPANSION SHIELDS
4. REMOVE ALL BURRS & SHARP EDGES

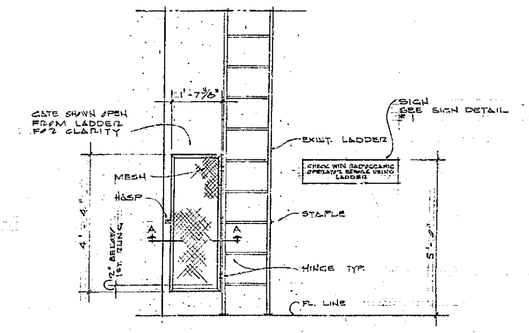


SIGN DETAIL #2

NOTE:
1. SEE SPECS FOR PAINT FINISH
2. SECURE SIGN TO EAST & WEST METAL DOORS OF 250 K.V.P. RM.
3. SECURE SIGN TO EXTERIOR OF METAL DOOR WITH 4-3/16 x ¾ LONG SELF TAPPING METAL SCREWS.
4. REMOVE ALL BURRS & SHARP EDGES



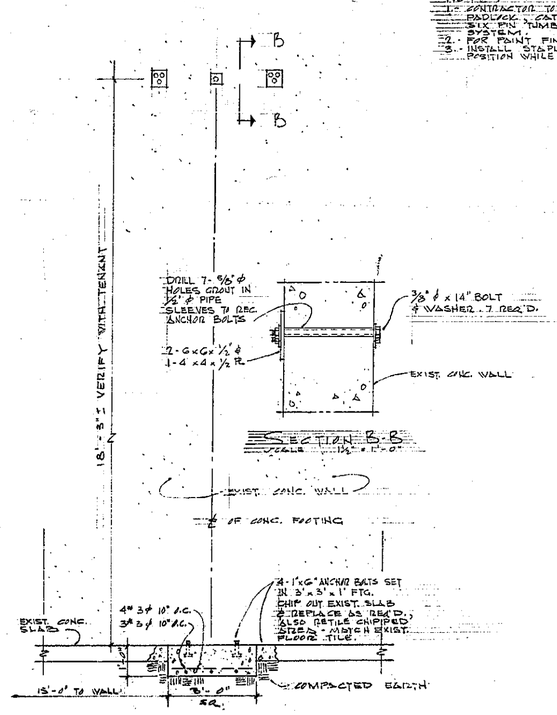
SECTION A-A



ELEV.

GATE C EXTERIOR LADDER

NOTE:
1. CONTRACTOR TO FURNISH 1 "YALE" SUPER. PIN TUMBLER PADLOCK CAT. NO. 851 WITH THREE NO. 13½ KEYS. SIX PIN TUMBLERS. KEYED TO BASE MASTER KEY SYSTEM.
2. FOR PAINT FINISH OF GATE AND SIGN, SEE SPECS.
3. INSTALL STAPLE TO CONC. WALL TO SECURE GATE IN OPEN POSITION WHILE USING LADDER.



SECTION B-B

ELEV. OF JIB CRANE SUPPORTS

NOTE: VERIFY EXIST. LOCATION OF ALL BOLTS FOR JIB CRANE WITH TENANT.

AS CONSTRUCTED

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIEL AREA
OFFICE OF CIVIL ENGINEERING

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY L.E.N.
DRAWN BY L.E.N.
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

ALTERATION TO X-RAY LAB.
BLDG. 2113
MISCELLANEOUS DETAILS

SUBMITTED — APPROVAL RECOMMENDED — APPROVED

APPROVED (FIRE PROTECTION) — DATE
APPROVED (SAN. & INDUST. HYGIENE) — DATE
APPROVED (GROUND SAFETY) — DATE

WORK ORDER NO. 303-3
PROJECT NO. HSC/A 16-12

DRAWING NUMBER
65-5280

SHEET 2 OF 2 SCALE NOTED

99-94

287

2113-65-1A

5280-2

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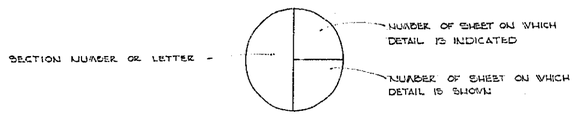
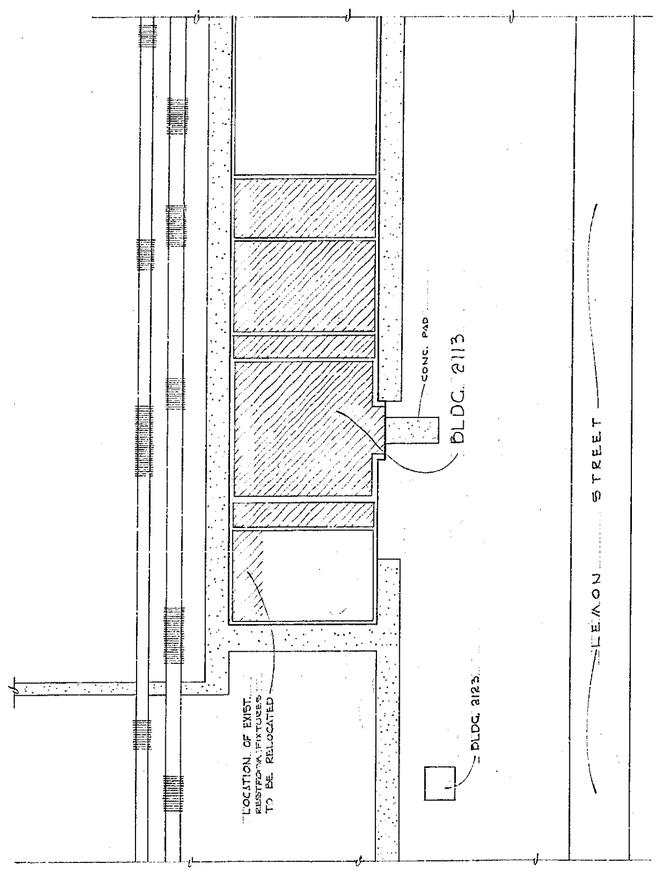
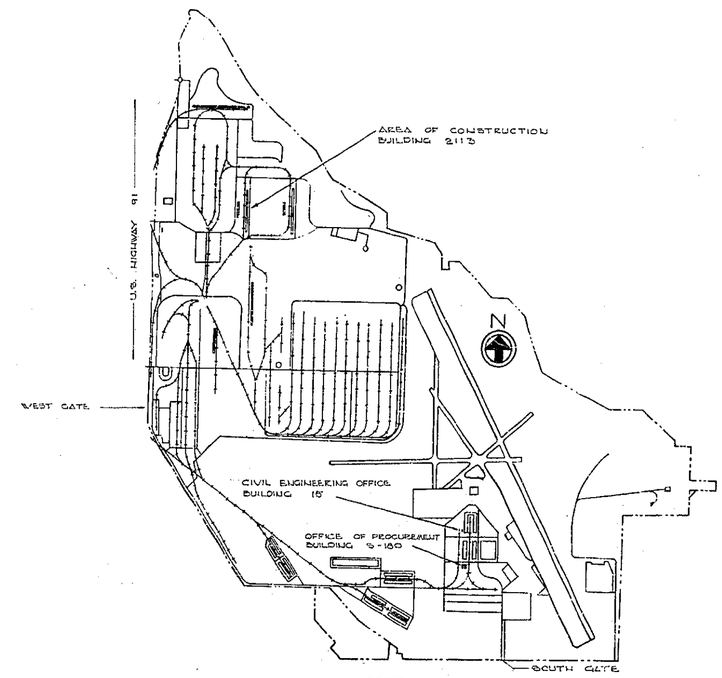
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



CROSS REFERENCE SYSTEMS





VICINITY MAP HILL A. F. B.
NO SCALE

LIST OF DRAWINGS

SH. NO	TITLE
1	PLOT PLAN & VICINITY MAP
2	FLOOR PLAN
3	SECTION THRU BLDG. & DETAILS
4	DETAILS & GENERAL NOTES

PLOT PLAN BLDG. 2113
SCALE 1" = 20'-0"

---- AREA TO BE ALTERED

49-95

AS-CONSTRUCTED

DATE 17 Feb 64
BY [illegible] DD 17 Feb 64
Paul J. Rempfer BAE 17 Feb 64
DD VPM - [illegible]

ADDITIONAL CODE IDENT NO.	DRAWN BY D.U.E.	DATE FEB. 64	U.S. AIR FORCE OGDEN AIR MATERIEL AREA HILL AIR FORCE BASE OFFICE OF CIVIL ENGINEERING OGDEN UTAH
	CHECKER E. M. & C.C.J.	FEB. 17-64	ALTERATION TO X-RAY LAB. BLDG. 2113 PLOT PLAN & VICINITY MAP
	DESIGNED D.U.E.	FEB. 64	
	SUBMITTED [illegible]	17 Feb 64	
	APPROVED [illegible]	17 Feb 64	
	ADDITIONAL RECOMMENDED [illegible]		CODE IDENT NO. / SIZE F / DRAWING NO. 64-5163
	FINAL APPROVAL BAE [illegible]	17 Feb 64	SCALE AS NOTED / PROJ. NO. HIL 16-4 / SHEET 1 OF 4

214

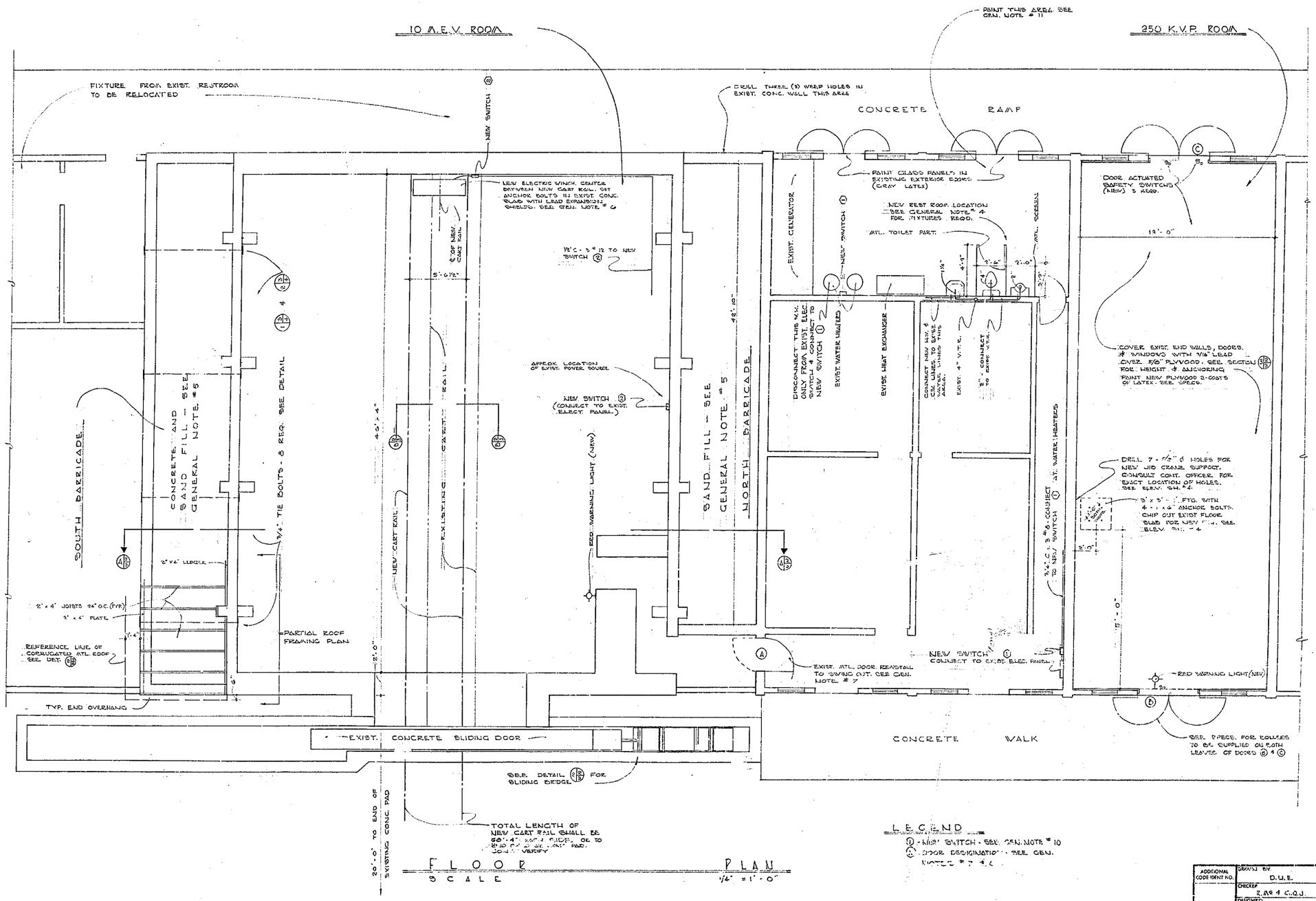
AF 1093 1657

2113-64-C

ENGINEERING DRAWING LAYOUT F

NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



LEGEND

(1) - NEW SWITCH - SEE GEN. NOTE # 10

(2) - DOOR DESIGNATION - SEE GEN. NOTES # 7 & 8

49-96

AS-CONSTRUCTED

ADDITIONAL CODE IDENT NO.	DRAWN BY D.U.E.	DATE FEB. 64	U.S. AIR FORCE OGDEN AIR MATERIEL AREA HILL AIR FORCE BASE OFFICE OF CIVIL ENGINEERING OGDEN UTAH
	CHECKED Z.A.G & C.Q.J.	FEB. 64	ALTERATION TO X-RAY LAB. BLDG. 2113 FLOOR PLAN
	DESIGNED D.U.E.	FEB. 64	
	SUBMITTED		
	APPROVED		CODE IDENT NO. / SIZE F / DRAWING NO. 64-5163
	APPROVAL RECOMMENDED		
	FINAL APPROVAL BAF		SCALE AS NOTED / PROJ. NO. HIL 10-4 / SHEET 2 OF 4

215

AF FORM DEC 61 1657

2113-64-A

ENGINEERING DRAWING LAYOUT F

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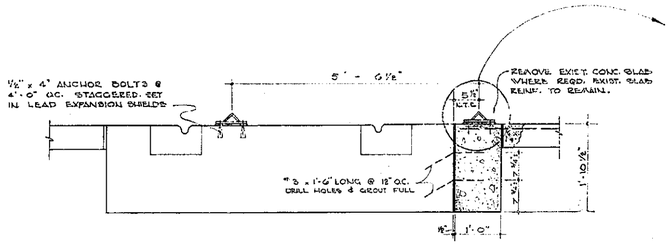
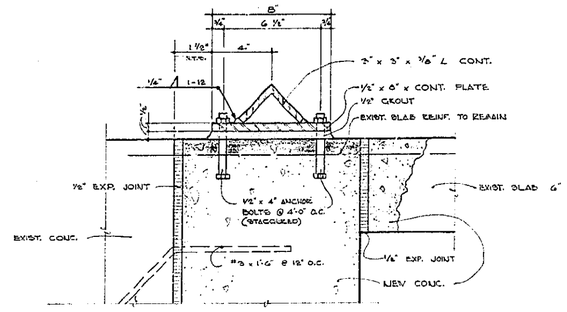
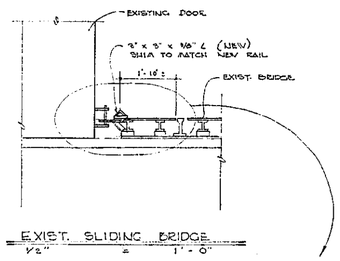
REVISIONS			
SYM	DESCRIPTION	DATE	APP'D



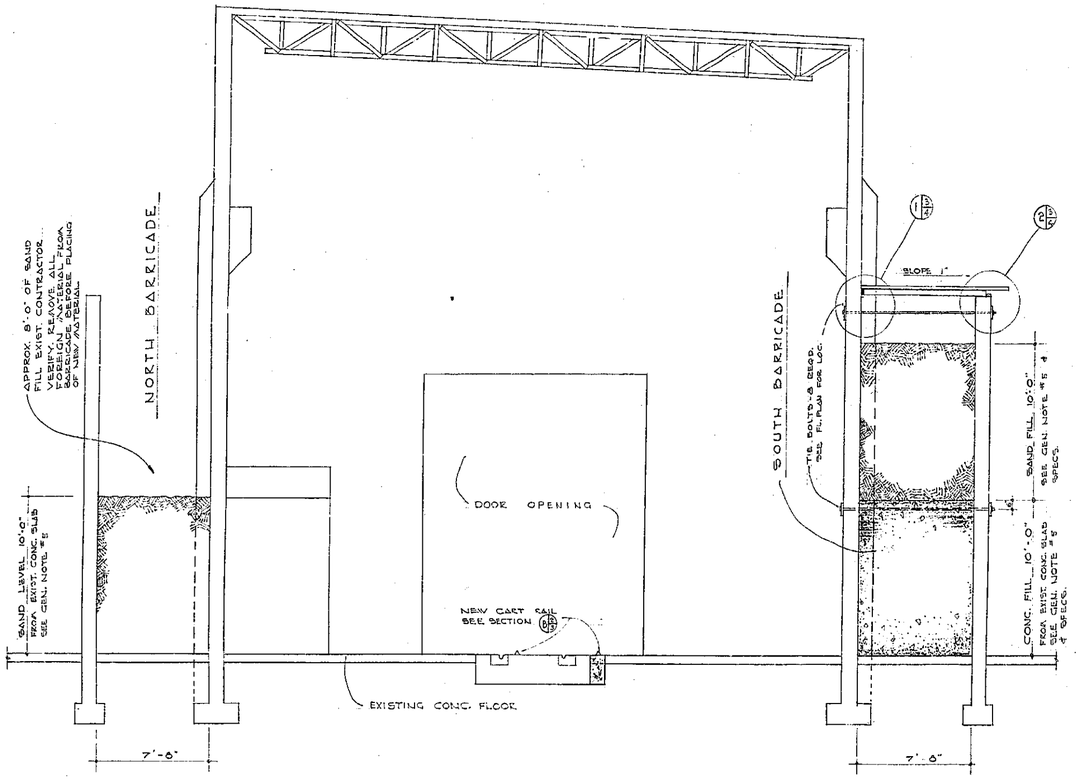
NEW CART RAIL - SECTION
3/4" = 1'-0"



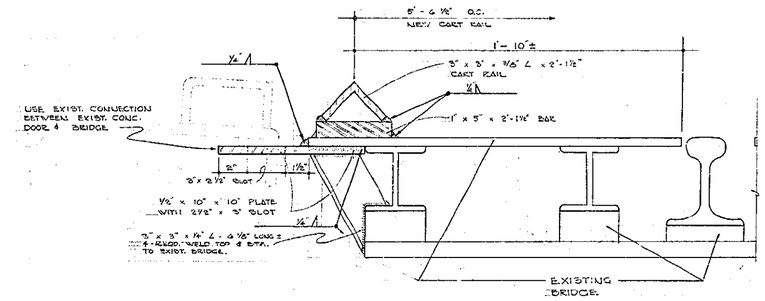
DETAIL
3" = 1'-0"



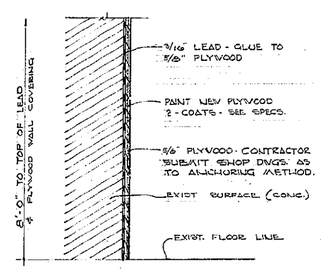
EXIST. SLIDING BRIDGE
1/2" = 1'-0"



SECTION
SCALE 1/4" = 1'-0"



DETAIL (TYP.)
3" = 1'-0"



SECTION THRU LEAD COVERED WALL
1 1/2" = 1'-0"

49-97

AS-CONSTRUCTED

ADDITIONAL CODE IDENT NO.	DRAWN BY D.U.E.	DATE FEB. 64	U.S. AIR FORCE OGDEN AIR MATERIEL AREA — HILL AIR FORCE BASE — OFFICE OF CIVIL ENGINEERING — OGDEN UTAH
	CHECKED R. MC & G.Q.J.	FEB. 12-64	ALTERATION TO X-RAY LAB. BLDG. 2113
	DESIGNED D.U.E.	FEB. 64	SECTION THRU BLDG. & DETAILS
	SUBMITTED		
	APPROVED		
	APPROVAL RECOMMENDED		CODE IDENT NO. / SIZE F / DRAWING NO. 64-5163
	FINAL APPROVAL		SCALE AS NOTED / PROJ. NO. - HIL 16-4 / SHEET 3 OF 4

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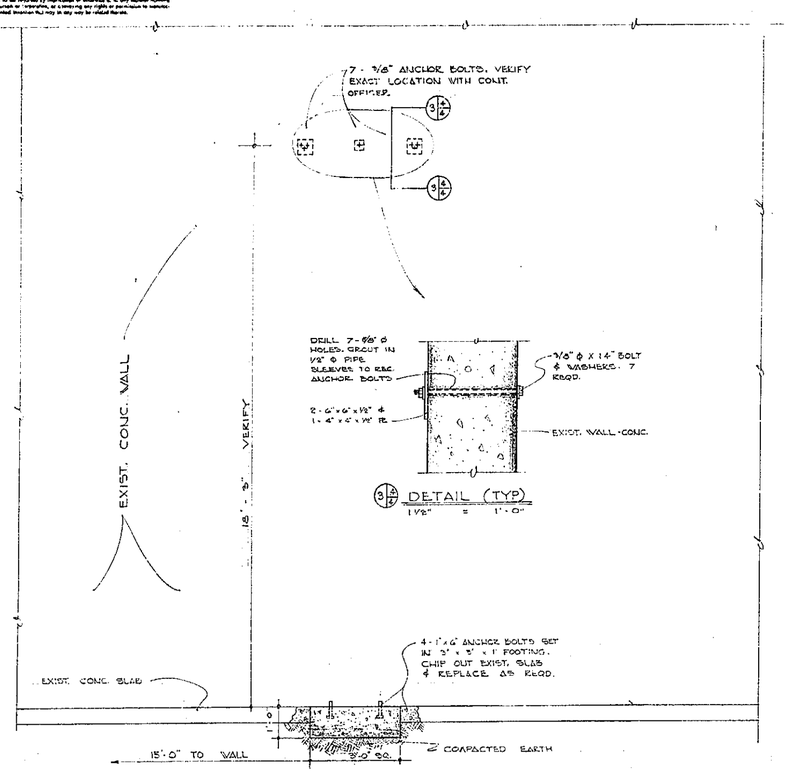
AF FORM 1657

2113-64-A

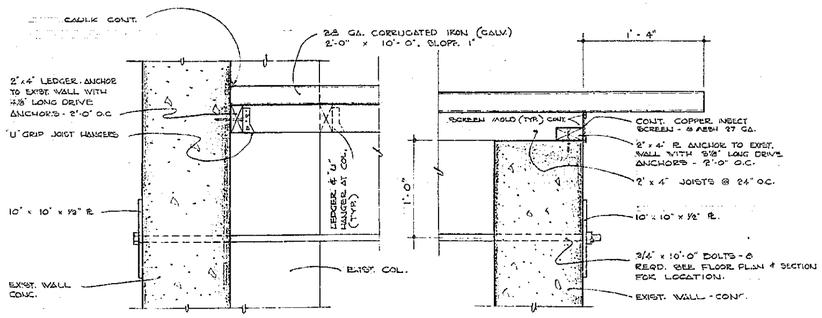
ENGINEERING DRAWING LAYOUT F

NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the U.S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as, or in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



ELEVATION OF J.I.B. CRANE SUPPORTS
1/2" = 1'-0"



DETAIL
1 1/2" = 1'-0"

DETAIL
1 1/2" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL MAKE A PRE-BID SITE INSPECTION TO ASCERTAIN THE SCOPE & AMOUNT OF WORK TO BE ACCOMPLISHED.
2. ALL WORK INVOLVED IN THIS CONTRACT SHALL CONFORM TO THE NATIONAL BLDG. CODE INVOLVED.
3. ALL ITEMS CALLED OUT BY MFG. NAMES MAY BE SUBSTITUTED WITH AN APPROVED EQUAL IN LIEU OF.
4. REMOVE FROM EXIST. RESTROOM THE FOLLOWING FIXTURES & EQUIPMENT IF AVAILABLE. (1) WATER CLOSET, (1) PAPER TOWEL DISPENSER, (1) TOILET PAPER DISPENSER, (1) SOAP DISPENSER, & OTHER EQUIPMENT AS DIRECTED BY CONTRACTING OFFICER. INSTALL IN NEW RESTROOM LOCATION AS SHOWN ON FLOOR PLAN. CAP ALL OBSOLETE WATER & DRAIN LINES AFTER REMOVAL OF FIXTURES FROM EXISTING RESTROOM. INSTALL NEW URINAL "WASHAL" # F-6200 & F-6200-1 FLUSH VALVE. NEW METAL SCREEN & TOILET PARTITION SHALL BE "WILLS METAL PARTITION" (SENTINAL STYLE) SIZE SHALL BE AS SHOWN ON FLOOR PLAN - COLOR TO BE SELECTED BY CONTRACTING OFFICER. ALSO INSTALL NEW LAVORATORY "NEW LUCERNE" # F-350-40 WITH # N-2101-8, R-2604, & # 7000-44 ACCESSORIES.
5. NORTH BARRICADE SHALL BE FILLED TO A HEIGHT OF 10'-0" WITH A SANDY SOIL AS SHOWN ON SECTION (B). SOUTH BARRICADE SHALL BE FILLED WITH A 3 BAG CONCRETE MIX TO A HEIGHT OF 10'-0" & THEN A SANDY SOIL TO A FINISHED HEIGHT OF 20'-0". SEE SPECIFICATIONS FOR CONCRETE MIX & SANDY SOIL.
6. NEW ELECTRIC WINCH SHALL BE "YALE TOWNE" (CABLE KING) # W371F, 440 VOLTS, 3 PHASE, 60 CYCLE EXPLOSION PROOF WITH STAINLESS STEEL CABLE & HOOK. USE 4 - 7/8" ANCHOR BOLTS SET IN LEAD EXPANSION SHIELDS.
7. DOORS MARKED (A), (B) & (C) SHALL BE EQUIPPED WITH "YALE" # 10-E EXIT DEVICES. DOOR (A) SHALL ALSO BE REVERSED TO SWING OUT AS SHOWN ON FLOOR PLAN. CONTRACTOR SHALL JOB FIT EXISTING METAL JAMB TO FIT NEW CONDITIONS. REPLACE ALL ELECTRICAL SWITCHES & WIRES INVOLVED IN THIS CHANGE TO EXIST. POSITION. (EXIT DEVICES ON ACTIVE LEAF OF DOORS (B) & (C) ONLY.)
8. DOS (B)(C) SHALL BE EQUIPPED WITH A DOOR ACTUATED SAFETY SWITCH TO MATCH EXIST. ON DOOR (D). CONNECT NEW SWITCH TO EXIST. ELECTRICAL CIRCUIT AT DOOR (D). SWITCHES SHALL BE G.E. # CR-1440-K (1U1).
9. CONTRACTOR SHALL SUPPLY & ACTIVATE NEW RED WARNING LIGHTS IN LOCATION AS SHOWN ON FLOOR PLAN. CONNECT NEW LIGHTS TO EXIST. WARNING SYSTEM CIRCUIT OR TO NEW CIRCUIT. NEW RED LIGHTS SHALL MATCH EXIST. CONNECT NEW RED LIGHT AT DOOR (B) TO EXIST. EXTERIOR LIGHTS AT DOOR (D) & NEW RED LIGHT IN ADJ. ROOM TO EXIST. RED LIGHT AT DOOR (A).
10. SWITCHES MARKED (1) SHALL BE NEW 30 AMP., 2 POLE SAFETY SWITCHES. SWITCHES MARKED (2) SHALL BE NEW 30 AMP. 3 POLE 600 VOLT SAFETY SWITCHES.
11. PAINT NEW RESTROOM TO A HEIGHT OF 10'-0" WITH 2 COATS OF LATEX PAINT ACCORDING TO SPECS. COLOR TO BE SELECTED BY CONTRACTING OFFICER.
12. PAINT ALL FINISH WOOD & METAL TRIM AS PER SPECS. COLOR TO BE SELECTED BY CONTRACTING OFFICER.

49-98

AS-CONSTRUCTED

Contractor 17 Feb 69
Lt Arnold BD 17 Feb 69
Paul J. Romplitt BAF 17 Feb 69
OOVPM - Kent L. Olmstead

ADDITIONAL CODE IDENT NO.	DRAWN BY D.U.E.	DATE FEB. 64	U.S. AIR FORCE OGDEN AIR MATERIEL AREA HILL AIR FORCE BASE — OFFICE OF CIVIL ENGINEERING — OGDEN UTAH
	CHECKED R.M.F. & G.Q.J.	FEB. 64	ALTERATION TO X-RAY LAB. BLDG. 2113
	DESIGNED D.U.E.	FEB. 64	DETAILS & GENERAL NOTES
	SUBMITTED		
	APPROVED		
	APPROVAL RECOMMENDED		CODE IDENT NO. / SIZE F / DRAWING NO. 64-5163
	FINAL APPROVAL B.A.E.		SCALE AS NOTED / PROJ. NO. NIL 14-4 / SHEET 1 OF 4

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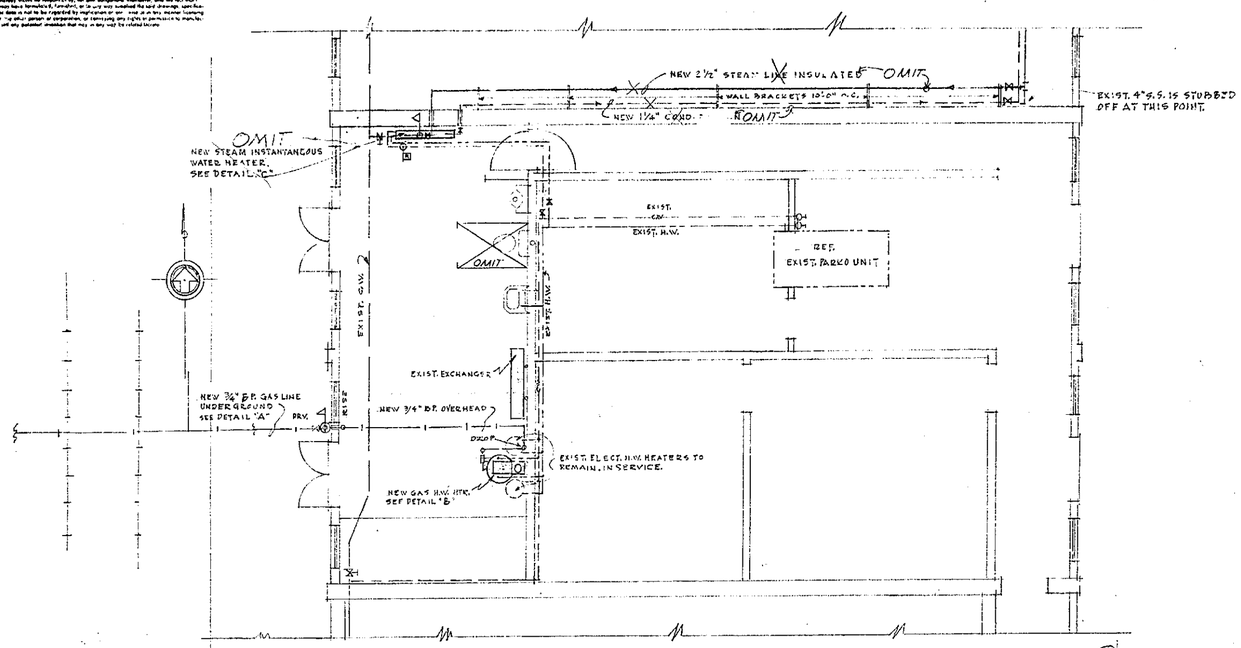
AF FORM 1657

2113-69-A

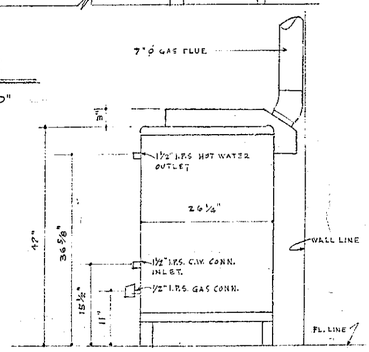
ENGINEERING DRAWING LAYOUT F

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	ADDED SHEET 4A	4/14/64	M.D.B.



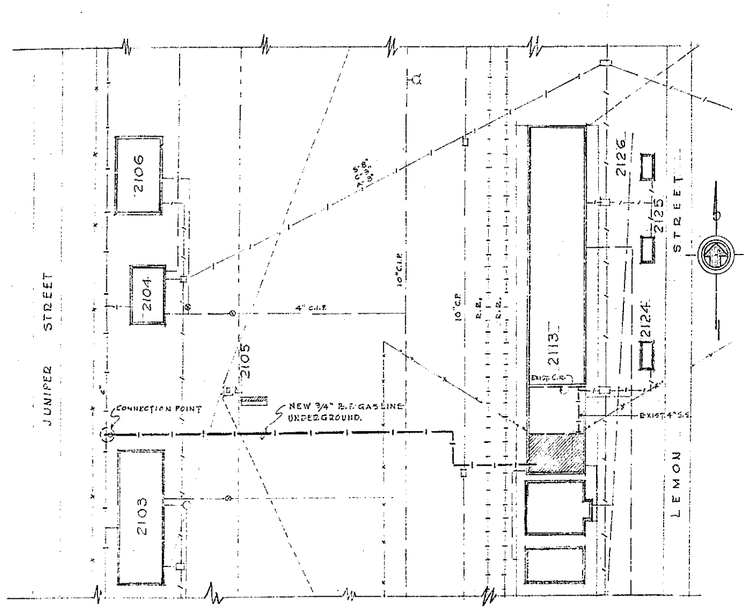
PART FLOOR PLAN ~ "X" ~ RAY FACILITIES

SCALE 1/4" = 1'-0"



DETAIL - "B" GAS HEATER

NO SCALE

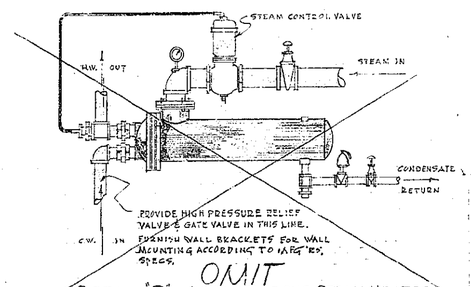


AREA OF CONSTRUCTION

NEW GAS LINE & VALVE.

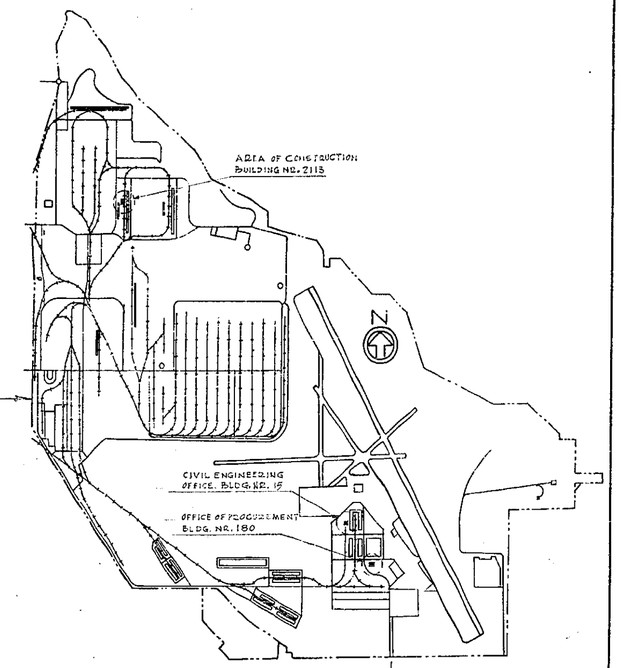
PART PLAN ~ UTILITY LAYOUT

SCALE 1" = 50'



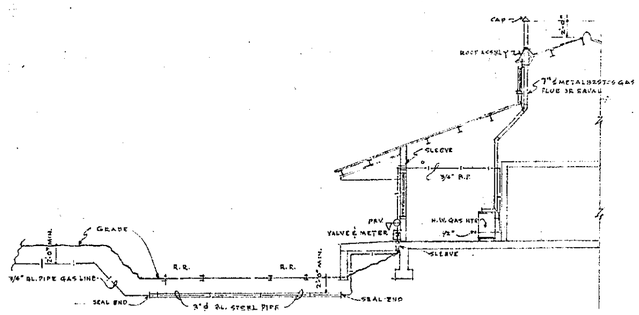
DETAIL "C" - INSTANTANEOUS STEAM HEATER

NO SCALE



VICINITY MAP

NO SCALE



DETAIL "A" GAS LINE UNDER R.R. TRACKS

SCALE 1/8" = 1'-0"

GENERAL NOTES

1. DO NOT REMOVE ELECTRIC HOT WATER HEATERS.
2. FURNISH AND INSTALL COMPLETE UNDERGROUND GAS LINE AS DETAILED ON UTILITY LAYOUT AND DETAIL "A".
3. WATER HEATER SHALL BE RUUD FLOWTER V MODEL GL77-150-1, OR EQUAL, HAVING GAS INPUT OF 150,000 BTU/HR. AND A RECOVERY RATE OF 126 GPH AT A 100° TEMPERATURE RISE. WATER HEATER SHALL HAVE THE AGA SEAL OF APPROVAL. WATER HEATER SHALL BE FURNISHED WITH A TANK LINED WITH GLASS AND FURNISHED WITH A MAGNESIUM ANODE ROD RIGIDLY SUPPORTED. TANKS SHALL HAVE A WORKING PRESSURE RATING OF 150 PSI, AND SHALL BE EQUIPPED WITH A SOLDER-TYPE HAND-HOLE CLEANOUT. WATER HEATER SHALL BE OF EXTERNAL FLUE DESIGN, AND COMPLETELY FACTORY ASSEMBLED, INCLUDING A PRESSURE REGULATOR PROPERLY ADJUSTED FOR OPERATION ON NATURAL GAS; CAST IRON RAISED DRILLED PORT BURNERS AND A FACTORY SUPPLIED AGMD RATED, TEMPERATURE AND PRESSURE RELIEF VALVE. CONTROLS WILL BE ARRANGED FOR 100% SAFETY SHUTOFF IN EVENT OF PILOT FAILURE. COMPLETE UNIT SHALL BE INSULATED WITH A 2" BLANKET OF FIBERGLAS. WATER HEATER SHALL BE COVERED BY A FIVE YEAR WARRANTY FROM THE MANUFACTURER. WATER HEATER SHALL BE SUPPLIED WITH STANDARD EQUIPMENT.
4. ~~VERIFY AND INSTALL NEW~~ STEAM AND COND. RETURN LINES AS DETAILED ON PART FLOOR PLAN. ~~THE INSTALL-~~ ATION IS TO INCLUDE INSULATION OF ~~ALL COND. LINES, THERMOMETER, VALVES~~, WALL SLEEVES AND ~~WALL PLATES~~.
5. INSTANTANEOUS HEATER SHALL BE OF THE SHELL AND TUBE TYPE DESIGNED FOR 125 LB. WORKING PRESSURE, WITH STEAM IN THE SHELL - WATER IN THE TUBES. HOT HEATER SHALL BE CAPABLE OF HEATING WATER AT THE RATE OF 2 GPM FROM 40° F. TO 140° F. WHEN SUPPLIED WITH STEAM AT 12 LBS. PER SQUARE INCH IN THE SHELL. THE PRESSURE DROP OF THE WATER FLOWING THROUGH THE TUBES SHALL NOT EXCEED 5 LBS. PER SQUARE INCH. TUBES TO BE 3/4" OD. BRASS, INTO STEEL TUBE SHEET, HEATER SHALL BE EQUAL TO BELL & GOSSETT INSTANTANEOUS MODEL HEATER NO. BU 22-2 OR EQUAL OR EQUAL. THE STEAM SUPPLY LINE TO THE HEATER SHALL BE EQUIPPED WITH A STEAM CONTROL VALVE ACTUATED BY A THERMAL CONTROL ELEMENT IN THE HOT WATER FLOW LINE FROM THE HEATER, ADJUSTED AND SET TO MAINTAIN A TEMPERATURE OF 105° F. IN THE HOT WATER LEAVING THE HEATER.
6. ALL GAS LINES AND INSTALLATION IS TO BE PERFORMED ACCORDING TO A.G.A. STANDARDS.
7. ALL WORK IS TO CONFORM TO A.S.H.R.A.E. GUIDE AND A.S.H.R. CODE.
8. CONTRACTOR IS TO FURNISH MFG. BROCHURE ON EQUIPMENT FOR CONTRACTING OFFICER'S APPROVAL.

HIL ~ 16-4

49-31

AS-CONSTRUCTED

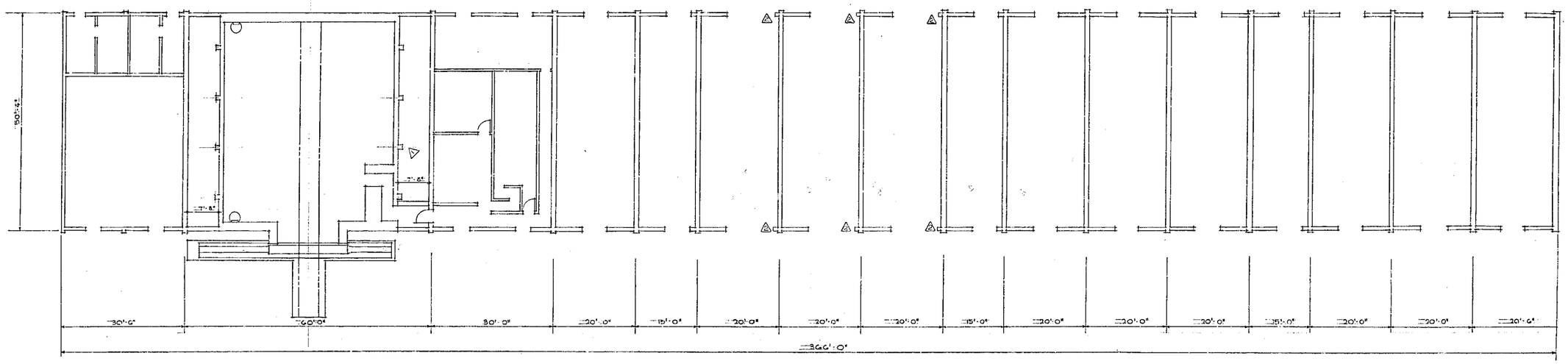
ADDITIONAL CODE IDENT NO.	DRAFTSMAN M.D. BAKER	DATE 4/4/64	U.S. AIR FORCE OGDEN AIR MATERIEL AREA HILL AIR FORCE BASE OFFICE OF CIVIL ENGINEERING OGDEN, UTAH
	CHECKER		ALTERATION TO "X-RAY LAB. BLDG. NO. 2113 HOT WATER SUPPLY MODIFICATION
	DESIGN ENGR M.D. BAKER	4/4/64	
	[illegible]	4/4/64	
	DESIGN ACTIVITY AUTHENTICATION (NAME, SYMBOL AND DATE)		CODE IDENT NO. / SIZE F / 64-5163
	[illegible]		SCALE AS NOTED / W.O. 8409-4 HIL-16-4 / SHEET (4) OF (4)

218

AF FORM 1657

2113-64-C

ENGINEERING DRAWING LAYOUT F



FLOOR PLAN BLDG. 2113

SCALE 3/32" = 1'-0"

REVISION	DATE	WO. NO	DESCRIPTION	BY
2	12JUN62	3251-61	ENLARGE THE SIX DOORS IN BAYS 6,7 & 8	K.A.A.
1	5MAR59	58-01	MODIFY BLDG. 2113 TO INSTALL ATDAY EQUIPMENT	R.B.J.

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIEL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY
DRAWN BY
CHECKED BY — DATE
APPROVED BY — DATE

SUBMITTED — APPROVAL RECOMMENDED — APPROVED

APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO.
DRAWING NUMBER
SHEET OF SCALE

ARCHITECTURAL

318

OOAMA FORM 405
8 MARCH 55 (TEMP)

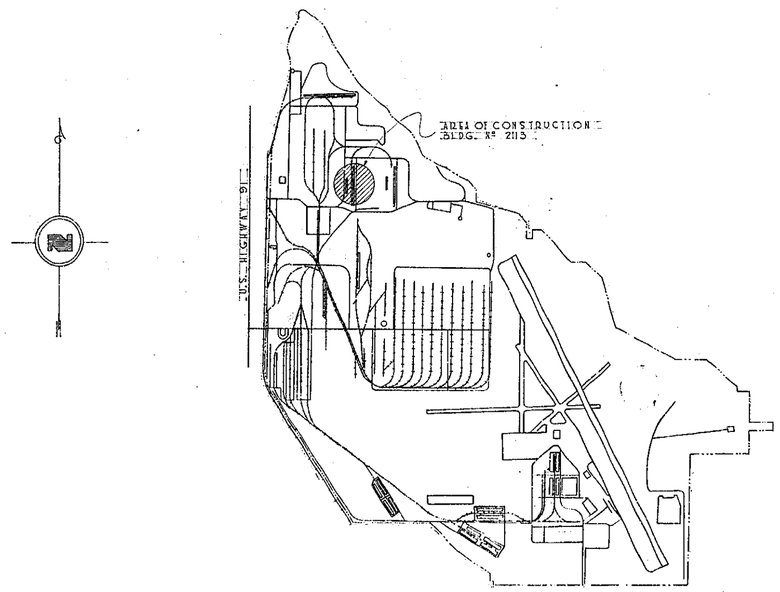
2113-59-A

49-12

BLDG 2113

MODIFICATION OF BUILDING Nº 2113
FOR
X-RAY FACILITIES

HILL AIR FORCE BASE · OGDEN, UTAH



VICINITY MAP
SCALE

INDEX OF SHEETS

1. COVER SHEET & VICINITY MAP
2. PLOT PLAN & UTILITY LAYOUT
3. FLOOR PLAN
4. ELEVATIONS
5. SECTIONS THRU BUILDING & DETAILS
6. FOOTING, FOUNDATION PLANS & DETAILS
7. WALL REINFORCING & CEILING FRAMING PLANS
8. MISCELLANEOUS DETAILS
9. MISCELLANEOUS DETAILS
10. CONCRETE DOOR & TRACK DETAILS
11. ELECTRICAL

PREPARED BY INSTALLATIONS DIVISION
HILL AIR FORCE BASE OGDEN, UTAH

PROJECT Nº HIL-29-8
DRAWING Nº 58-3866
SHEET 1 OF 11

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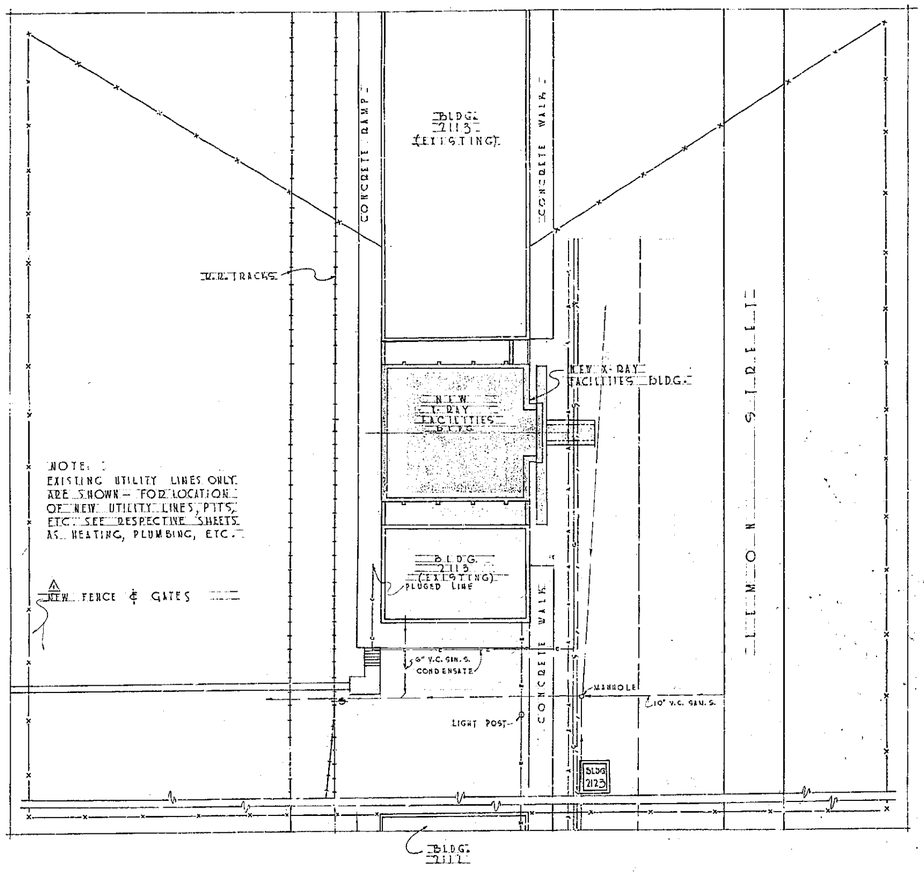
2113-57-A

49-77



UTILITY LAYOUT

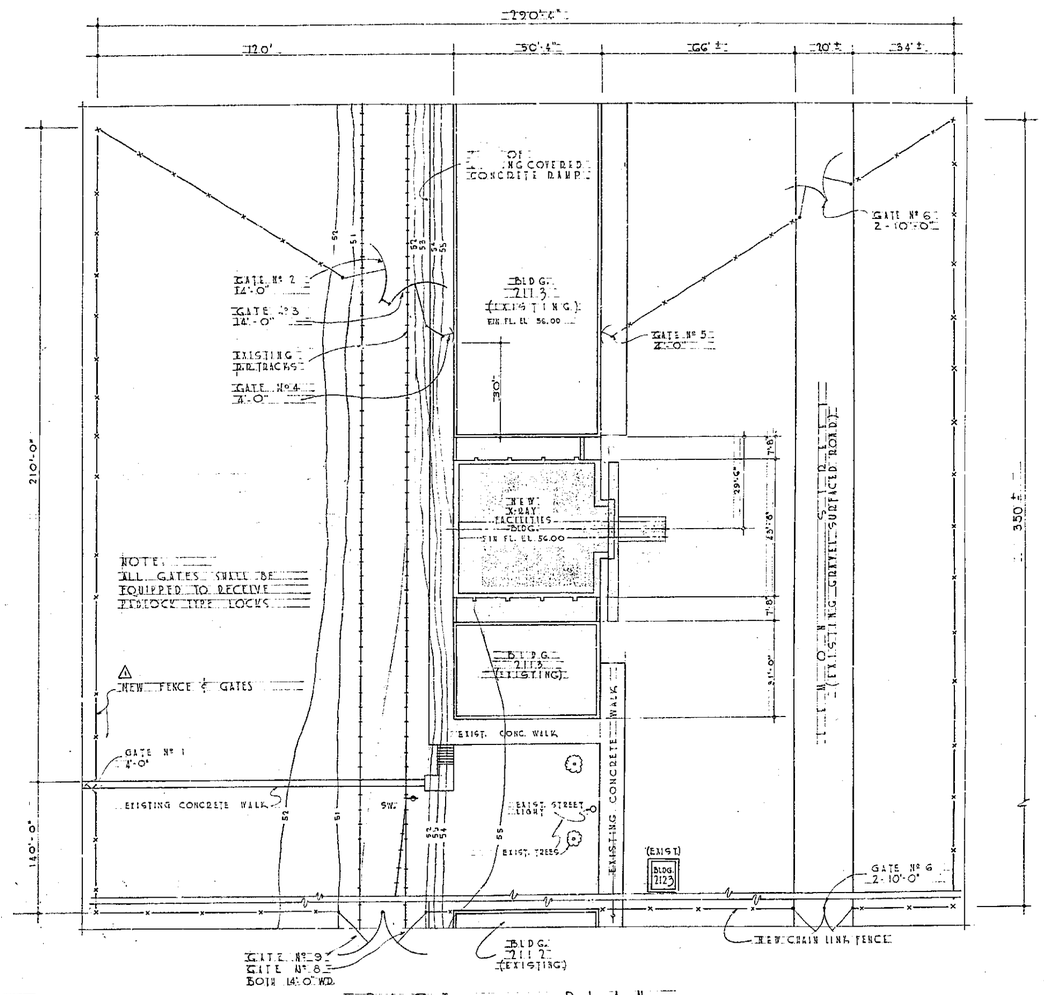
SCALE 1" = 20'

LEGEND

- C — CONDENSATE RETURN
- S — STEAM
- A — AIR
- SAN. SEWER
- W — WATER
- E — ELECTRIC UNDERGROUND

NOTES

FENCING & GATES TO BE ACCOMPLISHED BY OTHERS.



PLOT PLAN

SCALE 1" = 20'

LEGEND

- EXISTING (UNLESS NOTED)
- EXISTING TO BE REMOVED
- NEW CONSTRUCTION
- 51 EXISTING CONTOUR
- NEW CONTOUR

REVISION	DATE	DESCRIPTION	
1	4-16-58	GENERAL REVISIONS	

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G.G. JONES
DRAWN BY J.L. McGREER OCT. 1957
TRACED BY
CHECKED BY — DATE

MODIFICATION OF BUILDING No 2113 FOR X-RAY FACILITIES
PLOT PLAN & UTILITY LAYOUT

DESIGN CHECK		
CIVIL	H.T.W.	18 Dec 57
MECHANICAL	BHT	18 Dec 57
STRUCTURAL	GGJ	18 Dec 57
ELECTRICAL		18 Dec 57
ARCHITECTURAL		
DESIGN CHIEF		

		DATE
APPROVED BY	G.G. Jones	18 Dec 57
SUBMITTED	G.G. Jones	
APPROVAL RECOMMENDED		
APPROVED	Walter E. Lange	
APPROVED		18 Dec 57
APPROVED		18 Dec 57
APPROVED		18 Dec 57
APPROVED		18 Dec 57

PROJECT NO. 411-29-8

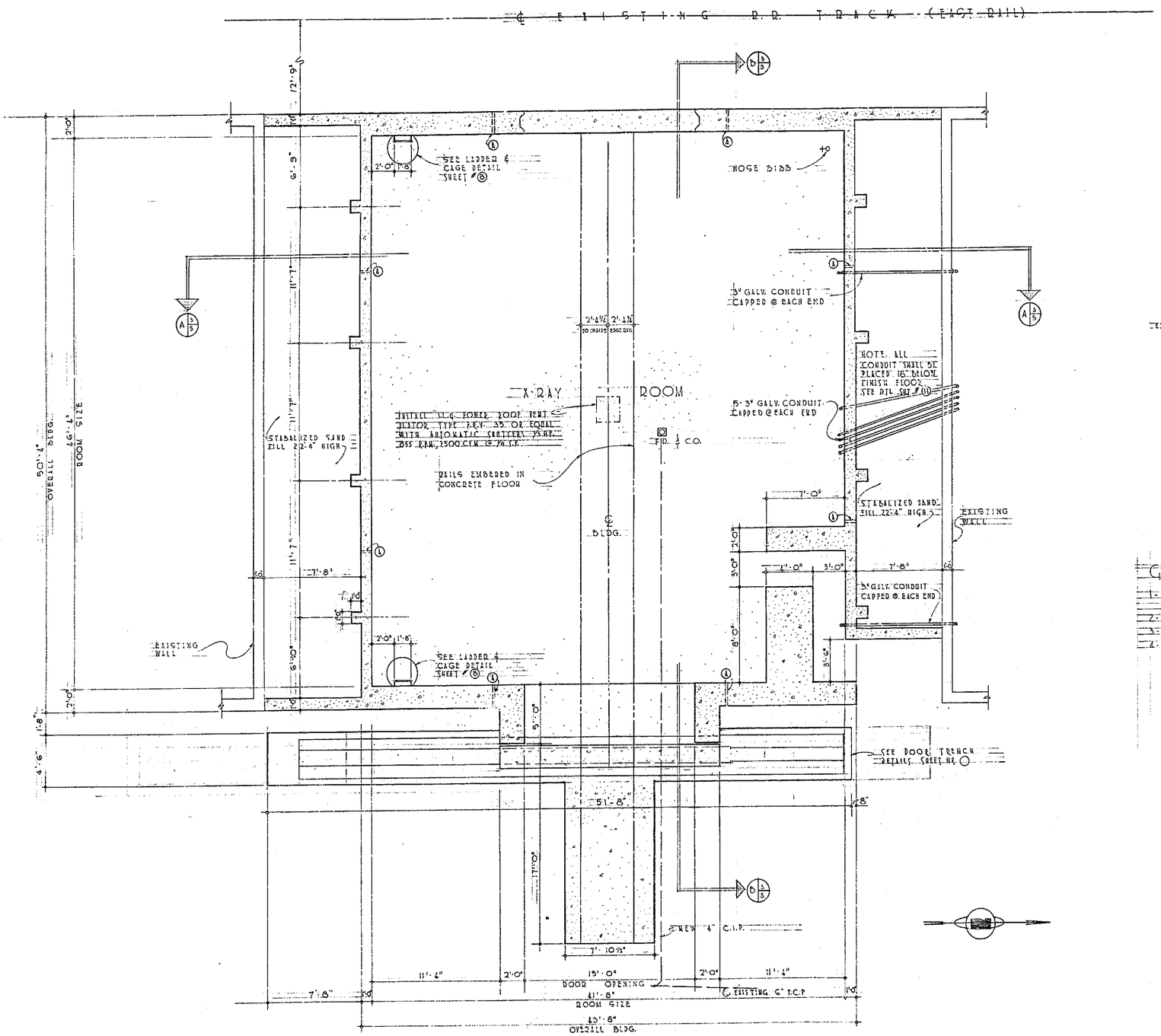
DRAWING NUMBER 58-3866

SHEET 2 OF 11 — SCALE NOTED

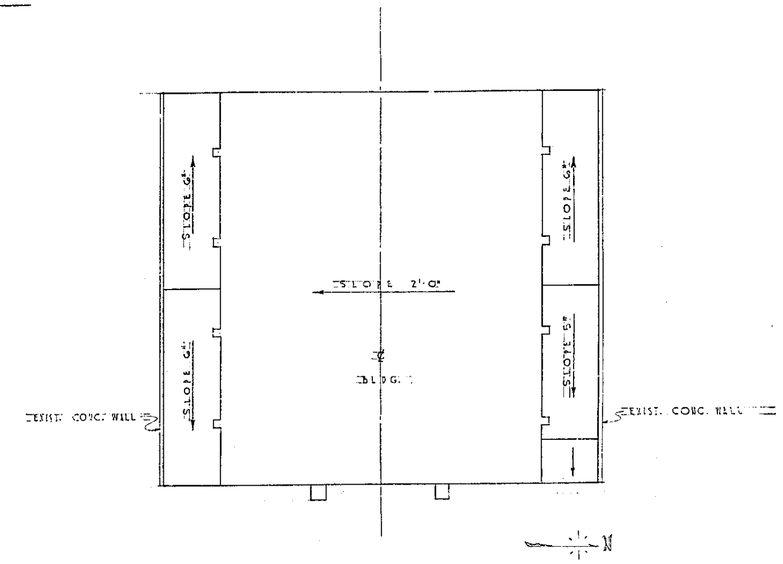
254

2113-58-C

49-78



FLOOR PLAN
SCALE 1/4" = 1'-0"



ROOF DRAINAGE PLAN
SCALE 1/8" = 1'-0"

GENERAL NOTES

1. ① DESIGNATES 2½" RIGID CONDUIT THRU WALL 2'-0" ABOVE FINISH FLOOR SLOPE ½" TO OUTSIDE WALL.
2. COIL BEARING DESIGN CAPACITY 4,000 P.S.F.
3. CONCRETE = 3,000 f'c = 1,350 fc
4. STEEL = 20,000 fs

REVISION	DATE	DESCRIPTION	BY
1	2-14-58	GENERAL REVISIONS	

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G.Q. JONES
DRAWN BY L.G. GRIERSON FEB. 1958
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
FLOOR PLAN

SUBMITTED G.Q. Jones
APPROVAL RECOMMENDED
APPROVED Kalph E. Lovd
APPROVED — DATE 5 Feb 58
APPROVED — DATE 12 Feb 58
APPROVED — DATE 18 Feb 58

PROJECT NO. HIL-29-8
DRAWING NUMBER 58-3866
SHEET 3 OF 11 SCALE NOTED

265

2113-58-A

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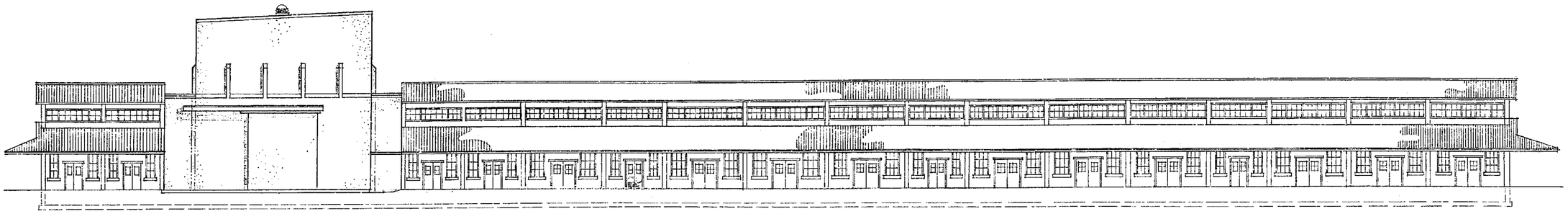
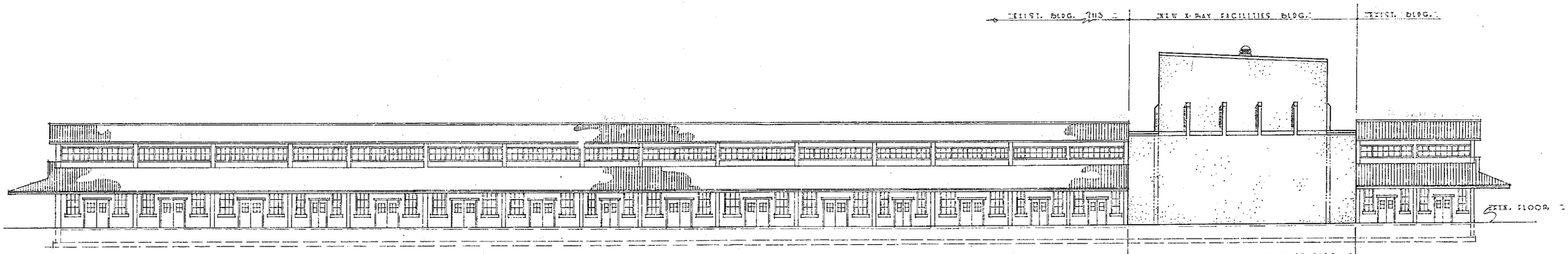
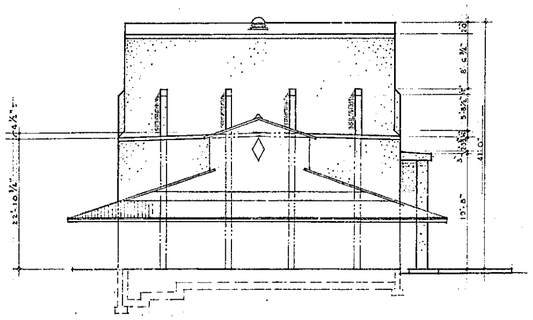


EAST ELEVATION
SCALE 1/32" = 1'-0"



WEST ELEVATION
SCALE 1/32" = 1'-0"



SOUTH ELEVATION
SCALE 1/32" = 1'-0"
(NORTH ELEVATION SIMILAR)

REVISION	DATE	DESCRIPTION	BY
1	4-14-58	GENERAL REVISIONS	GDJ

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY R. A. JONES
DRAWN BY J. L. McGIVIN 11 FEB. 1958
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BLDG. No 2113 FOR X-RAY FACILITIES
ELEVATIONS

SUBMITTED: R. A. Jones
APPROVAL RECOMMENDED: for Hammond
APPROVED: Robert E. Lowe
APPROVED: Ben D. Rumfelt DATE 18 Feb 58
APPROVED: [illegible] PTG DATE 18 Feb 58
APPROVED: W. R. Williams 3rd PDC DATE 4 Feb 58

PROJECT NO.
DRAWING NUMBER 58-3866
SHEET 4 OF 11 SCALE 1/32" = 1'-0"

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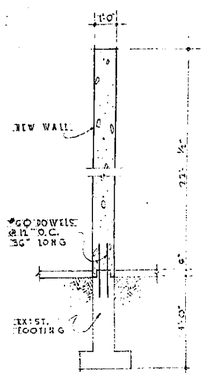
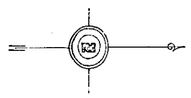
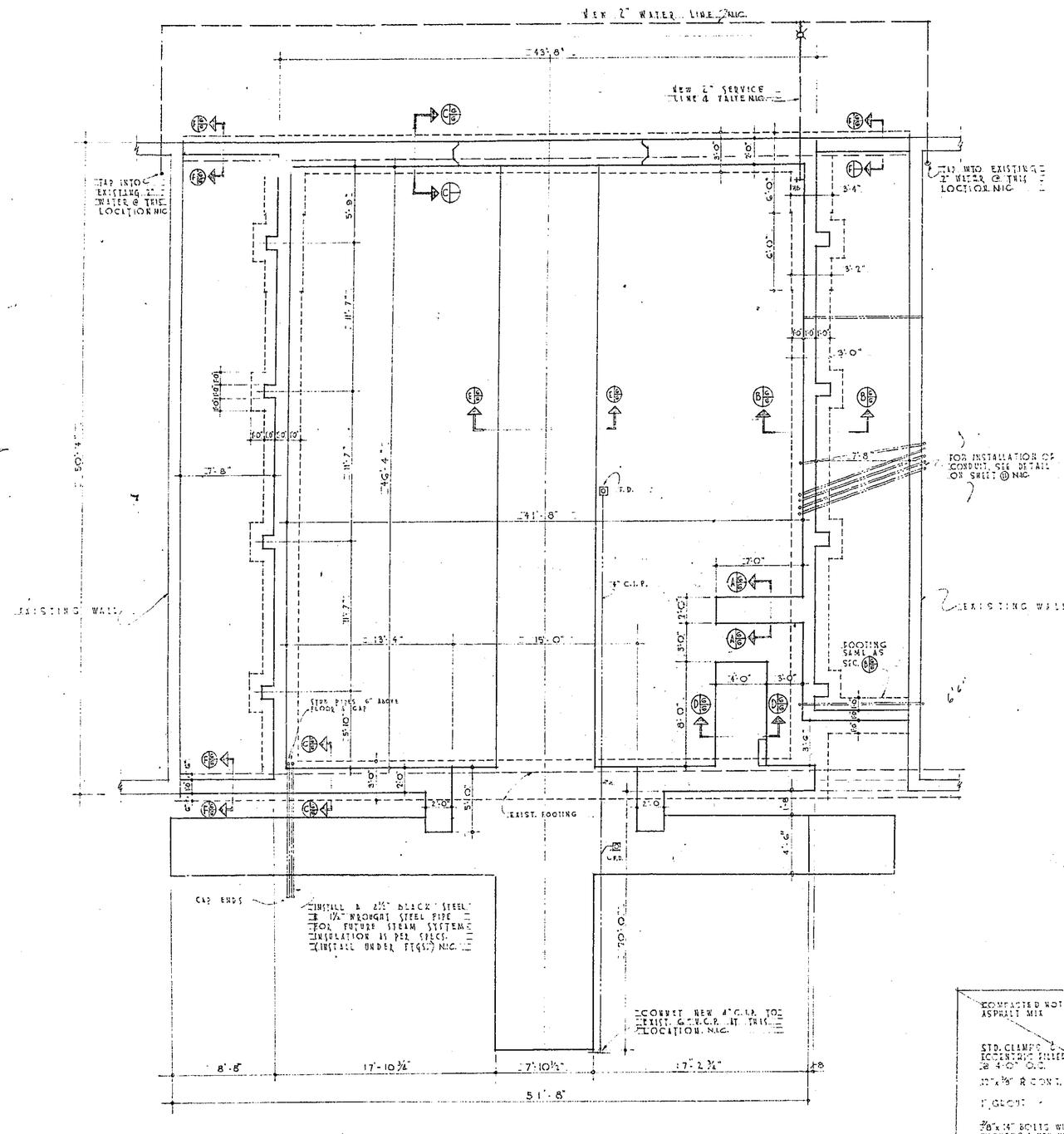
2113-58-A

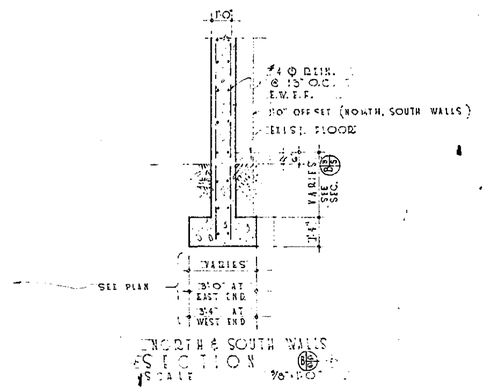


SECTION
SCALE - NONE

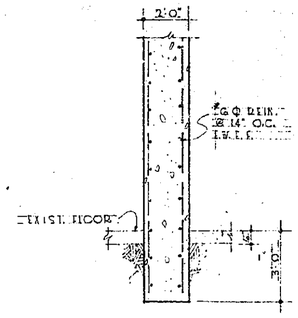




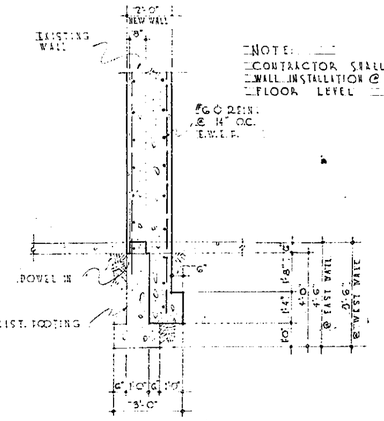
FOOTING & FOUNDATION PLAN
SCALE



NORTH & SOUTH WALLS
SECTION
SCALE 3/8"=1'-0"

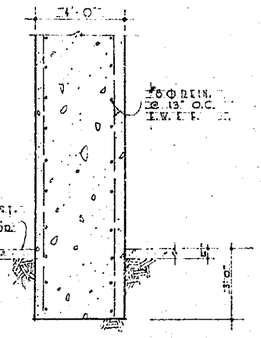


SECTION
SCALE 3/8"=1'-0"

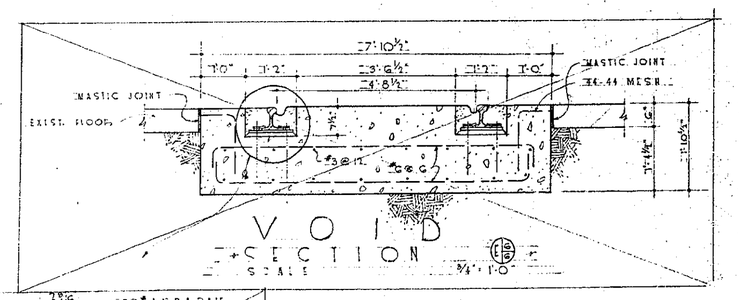


EAST & WEST WALLS
SECTION
SCALE

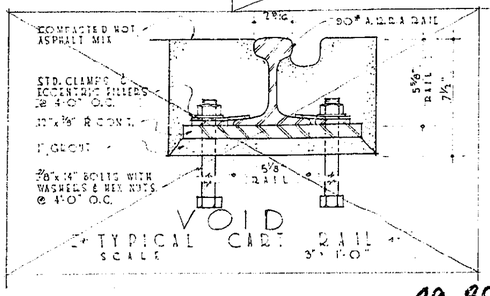
NOTE:
CONTRACTOR SHALL COMMENCE WALL INSTALLATION @ APPROX. FIN. FLOOR LEVEL



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



VOID
SECTION
SCALE



VOID
TYPICAL CART RAIL
SCALE

49-85

CONTRACT DRAWINGS

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

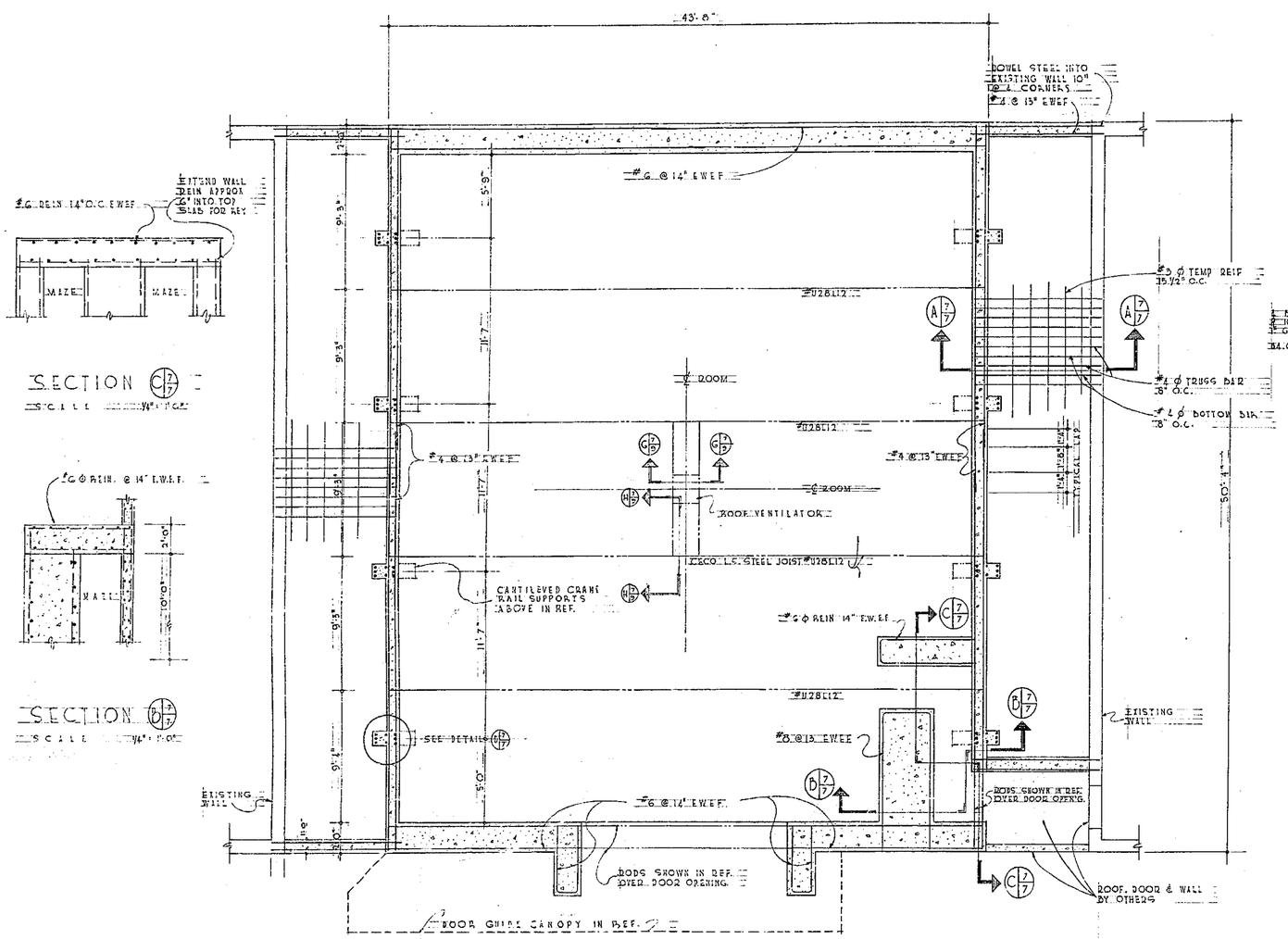
DESIGNED BY G.O. JONES
DRAWN BY T.A. McGIVIE 20 FEB 1958
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE
SUBMITTED
APPROVAL RECOMMENDED
APPROVED
APPROVED — DATE
APPROVED — DATE 18 Feb 58
APPROVED — DATE 18 Feb 58

MODIFICATION OF BUILDING No. 2113 FOR X-DAY FACILITIES
FOOTING FOUNDATION PLAN & DETAILS

PROJECT NO.
DRAWING NUMBER 58 3866
SHEET 10 OF 11 SCALE 1" = 1'-0"

241

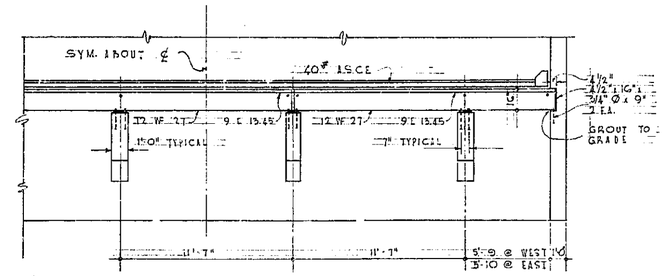
2113-58-A



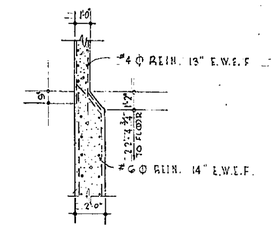
WALL REINFORCING & ROOF FRAMING
SCALE 1/4" = 1'-0"

SECTION C 7/7
SCALE 1/4" = 1'-0"

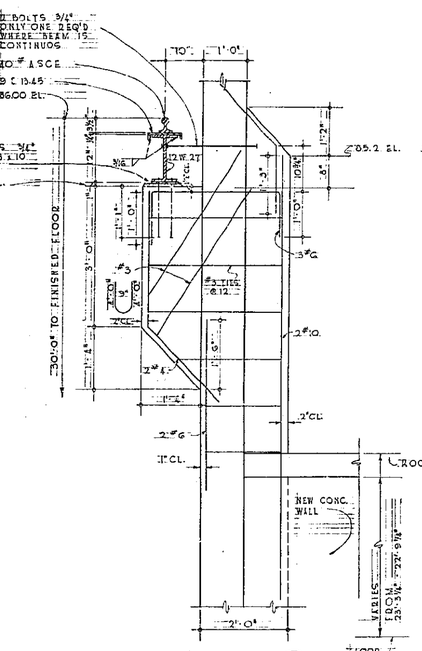
SECTION D 7/7
SCALE 1/4" = 1'-0"



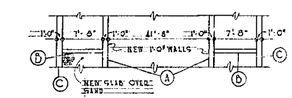
ELEVATION OF CRANE RAIL SUPPORTS
SCALE 1/4" = 1'-0"



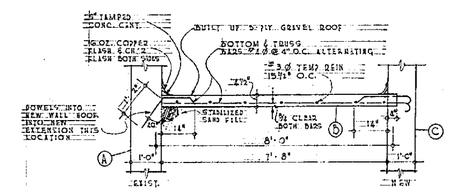
EAST & WEST WALLS
SCALE 1/4" = 1'-0"



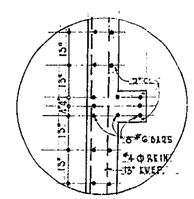
SECTION G 5/7
SCALE 3/4" = 1'-0"



SECTION THRU BLDG
NO. SCALE



SECTION A 7/7 TIE SLAB OVER STABALIZED SAND
SCALE 1/2" = 1'-0"
(TYPICAL NORTH & SOUTH WALLS)



DETAIL D 7/7
SCALE 1/2" = 1'-0"

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REVISION	DATE	DESCRIPTION	BY
1	2-14-59	GENERAL REVISIONS	G.O.J.

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G. O. JONES
DRAWN BY L. G. SNELLS FEB. 1958
TRACED BY
CHECKED BY DATE
APPROVED BY DATE

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
WALL REINFORCING & CEILING FRAMING PLAN

SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED DATE 12 Feb 58
APPROVED DATE 12 Feb 58
APPROVED DATE 18 Feb 58

PROJECT NO. HIL 29-8
DRAWING NUMBER 58-3866
SHEET 7 OF 11 SCALE NOTED

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2113-58-A

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REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G. SULLIVAN
DRAWN BY T. G. SULLIVAN
TRACED BY
CHECKED BY
APPROVED BY

MODIFICATION OF BUILDING Nº 2113 FOR:
X DAY FACILITIES
MISCELLANEOUS DETAILS

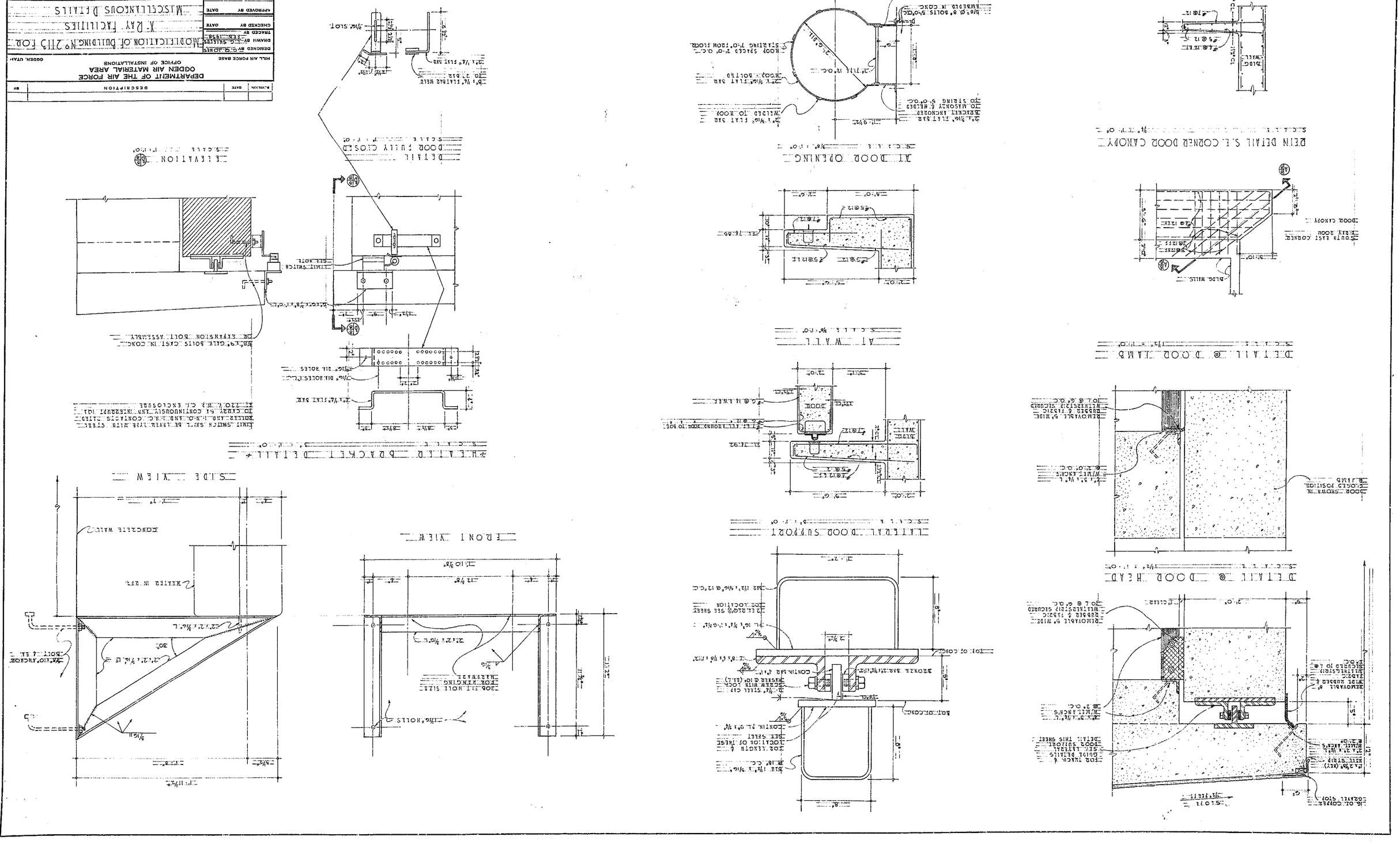
SUBMITTED
APPROVAL RECOMMENDED
APPROVED

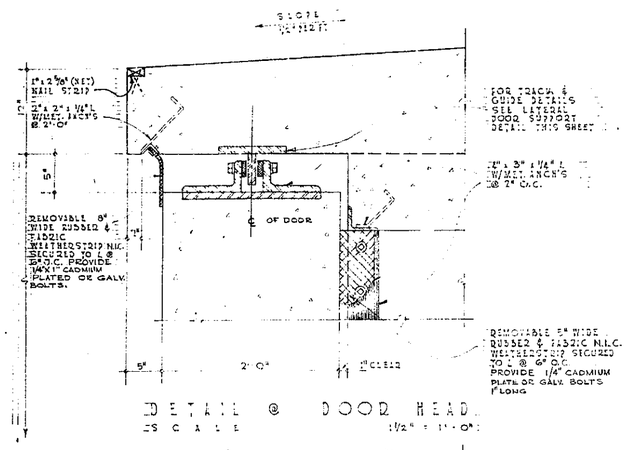
PROJECT NO. 1938
DRAWING NUMBER 58-386C

APPROVED DATE
APPROVED DATE
APPROVED DATE

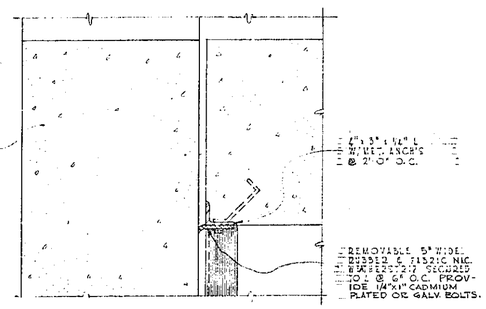
SHEET OF SHEETS — SCALE AS NOTED

99-90

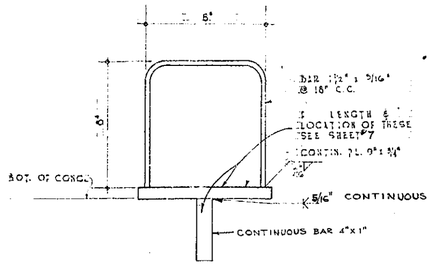




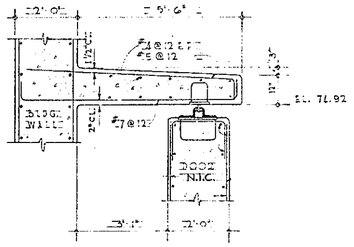
DETAIL @ DOOR HEAD
SCALE 1 1/2" = 1'-0"



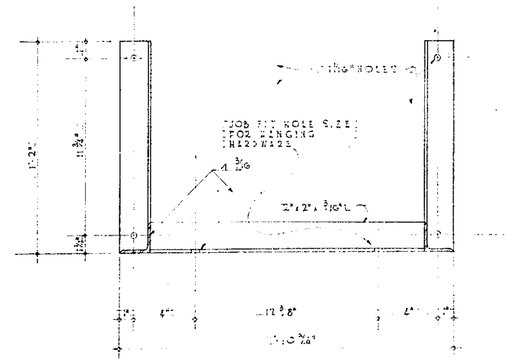
DETAIL @ DOOR JAMB
SCALE 1 1/2" = 1'-0"



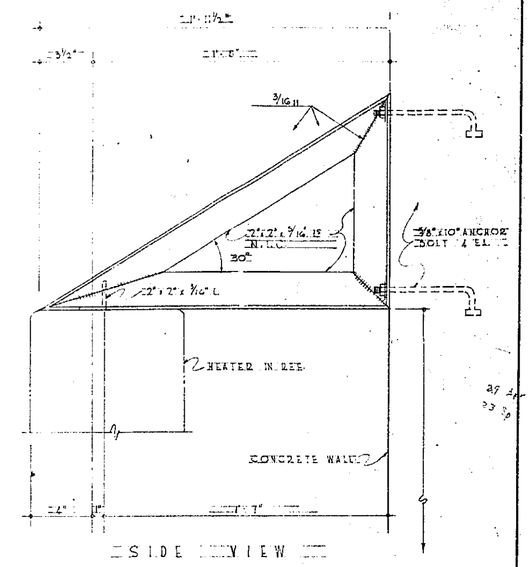
LATERAL DOOR SUPPORT
SCALE 3" = 1'-0"



AT WALL
SCALE 3/8" = 1'-0"



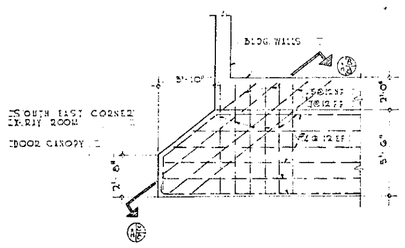
FRONT VIEW



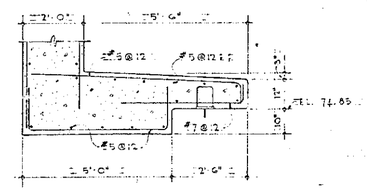
SIDE VIEW

INSTALL SIX SETS OF ANCHOR BOLTS (FOR BRACKETS) LOCATION TO BE DETERMINED BY THE CONTRACTING OFFICER BEFORE START CONCRETE WORK

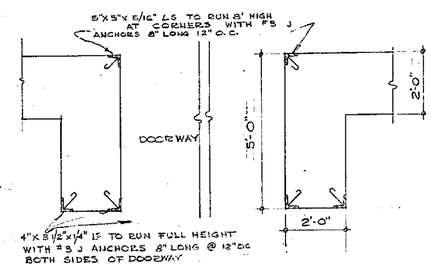
HEATER BRACKET DETAIL
SCALE 3" = 1'-0"



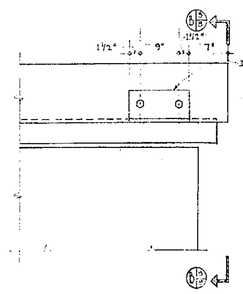
REIN DETAIL S.E. CORNER DOOR CANOPY
SCALE 1/4" = 1'-0"



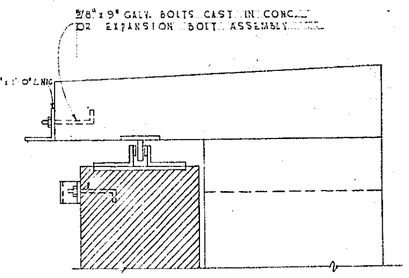
AT DOOR OPENING
SCALE 3/8" = 1'-0"



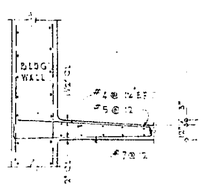
PLAN OF DOORWAY GUARDS
SCALE 1/2" = 1'-0"



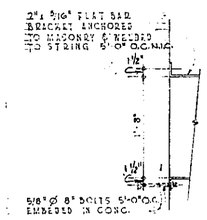
DETAIL
DOOR FULLY CLOSED
SCALE 1" = 1'-0"



ELEVATION
SCALE 1" = 1'-0"



SECTION
SCALE 1" = 1'-0"



LADDER ANCHOR BOLTS
SCALE 1" = 1'-0"

79-89

CONTRACT DRAWINGS

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G.G. WILLIAMS
DRAWN BY G.G. SELLERS FEB. 1958
TRACED BY
CHECKED BY DATE
APPROVED BY DATE 18 Jan 58

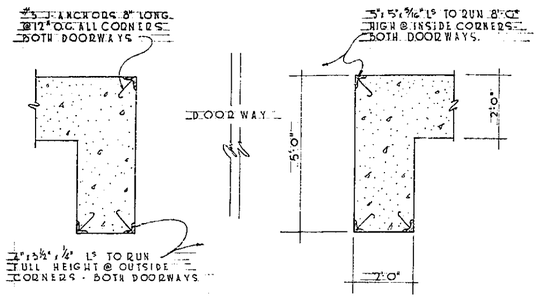
MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
MISCELLANEOUS DETAILS

SUBMITTED — APPROVAL RECOMMENDED — APPROVED

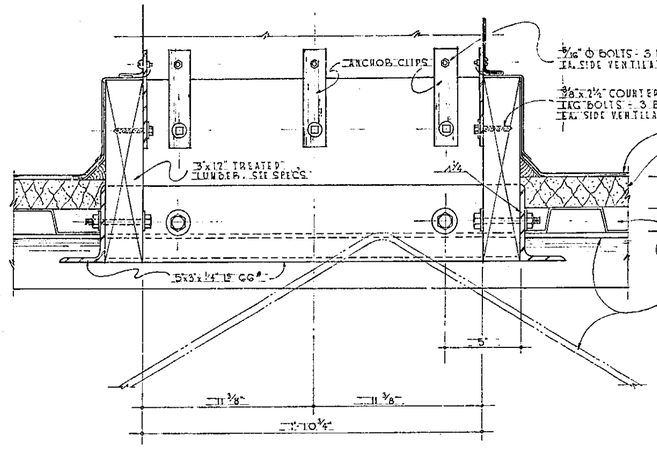
APPROVED DATE MCL 18 Feb 58
APPROVED DATE 18 Feb 58
APPROVED DATE 18 Feb 58

PROJECT NO. VHIL 79-8
DRAWING NUMBER 58-3866
SHEET 8 OF 12 SCALE NOTED

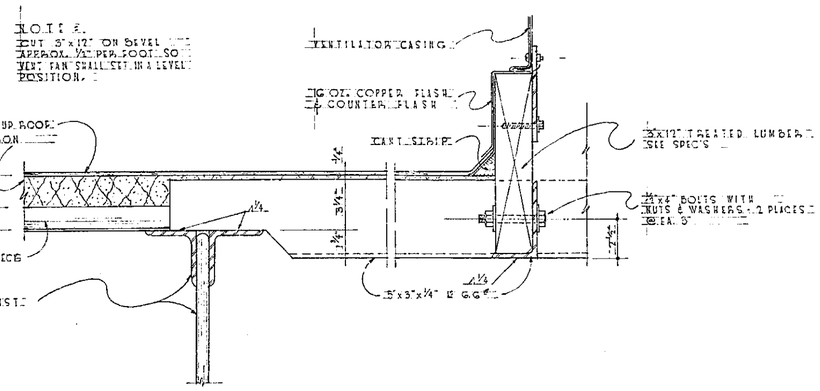
2113-58-A



PLAN OF DOORWAY GUARDS
SCALE 1/2" = 1'-0"



SECTION A/9
SCALE 3" = 1'-0"



SECTION H/9
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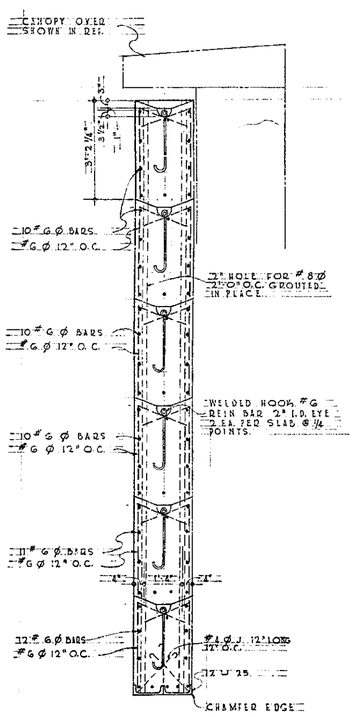
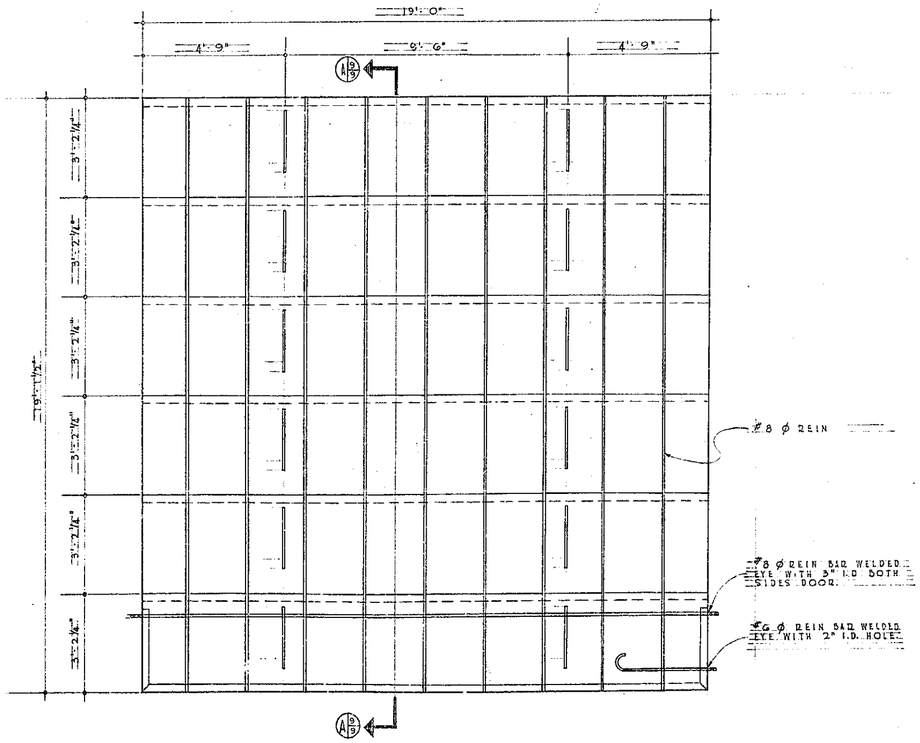
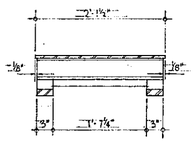


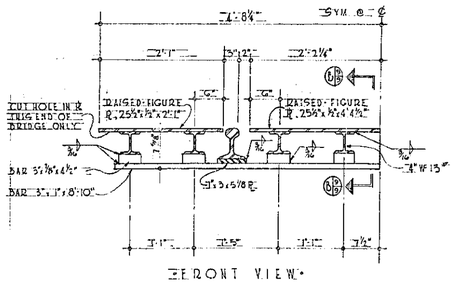
SECTION A/9
SCALE 1/2" = 1'-0"

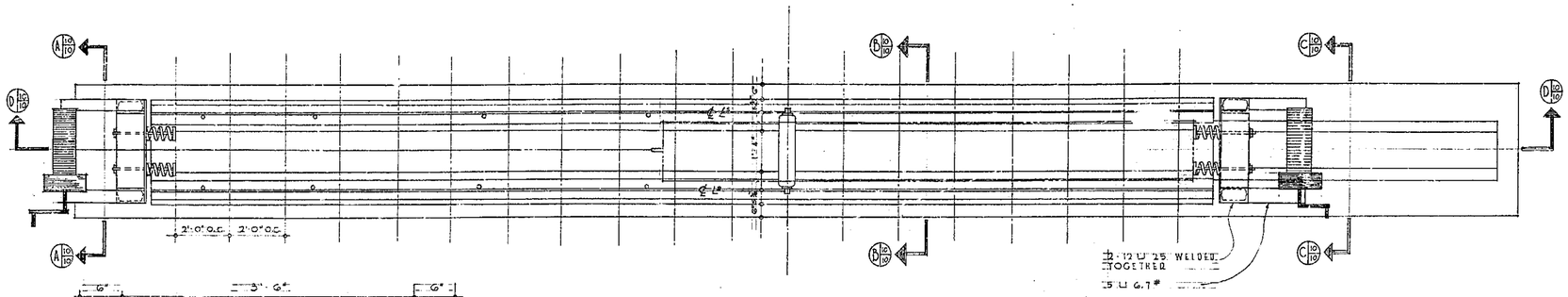


CONC. SLIDING DOOR
SCALE 1/2" = 1'-0"



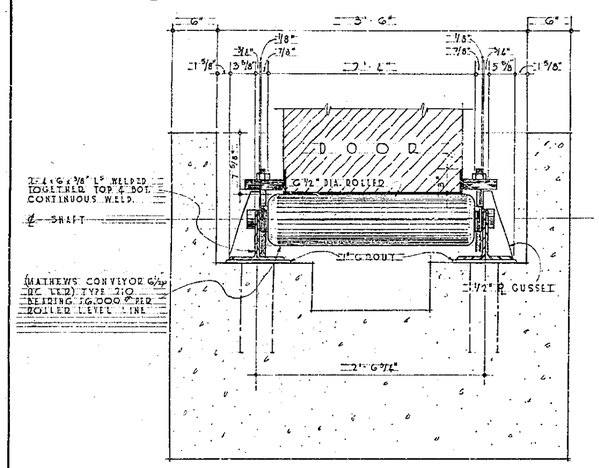
SECTION B/9 - SIDE VIEW


7'-8 1/4"
SYM. ℄
2'-1"
3 1/2"
2'-2 1/4"
6"
6"
CUT HOLE IN R TRIG END OF BRIDGE ONLY
RAISED FIGURE R. 25 3/4" x 1/2" x 2 1/2"
RAISED FIGURE R. 25 3/4" x 1/2" x 4 1/2"
BAR 5 1/8" x 4 1/2"
BAR 3" x 1" x 8'-10"
5" x 3 x 5/8 R
B/9
B/9
1/2"
1/2"
1/2"
1/2"
3/16"
3/16"
1/2"
1/2"
1/2"
1/2"
1/2"
1/2"
1/2"
1/2"
1'-1"
3'-5"
1'-1"
3 1/2"
1/2"
1/2"
1/2"
1/2"
1/2"
1/2"
1/2"



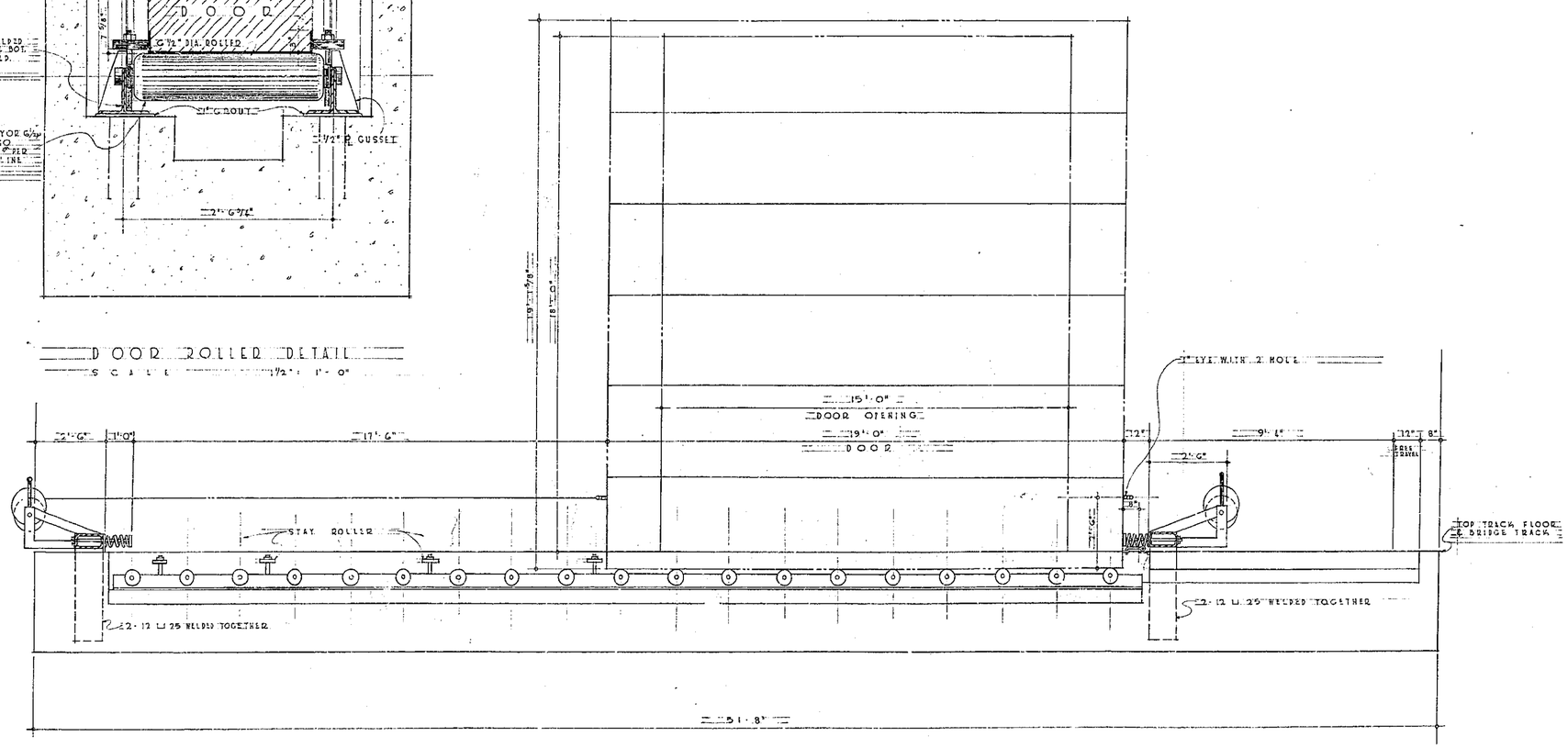
DOOR TRENCH PLAN

SCALE 1/2" = 1'-0"



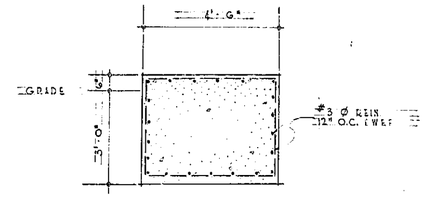
DOOR ROLLER DETAIL

SCALE 1/2" = 1'-0"



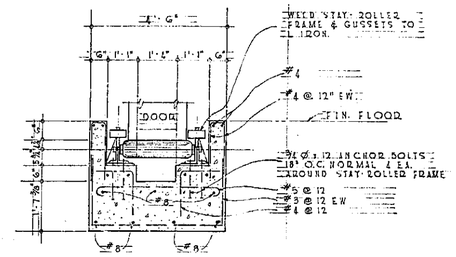
DOOR TRENCH SECTION

SCALE 1/2" = 1'-0"



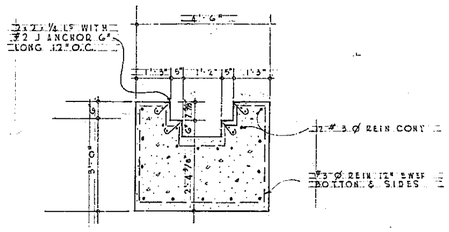
SECTION @ SOUTH END

SCALE 1/2" = 1'-0"



SECTION @ DOOR

SCALE 1/2" = 1'-0"



SECTION @ BRIDGE

SCALE 1/2" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G. Q. JONES
DRAWN BY J. G. SHIELDS, 18 Mar 1958
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING No. 2113 FOR X-RAY FACILITIES
CONC. DOOR & TRACK DETAILS

SUBMITTED — APPROVAL RECOMMENDED — APPROVED

APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO. HIL 29-8
DRAWING NUMBER 58-3866
SHEET 10 OF 11 — SCALE NOTED

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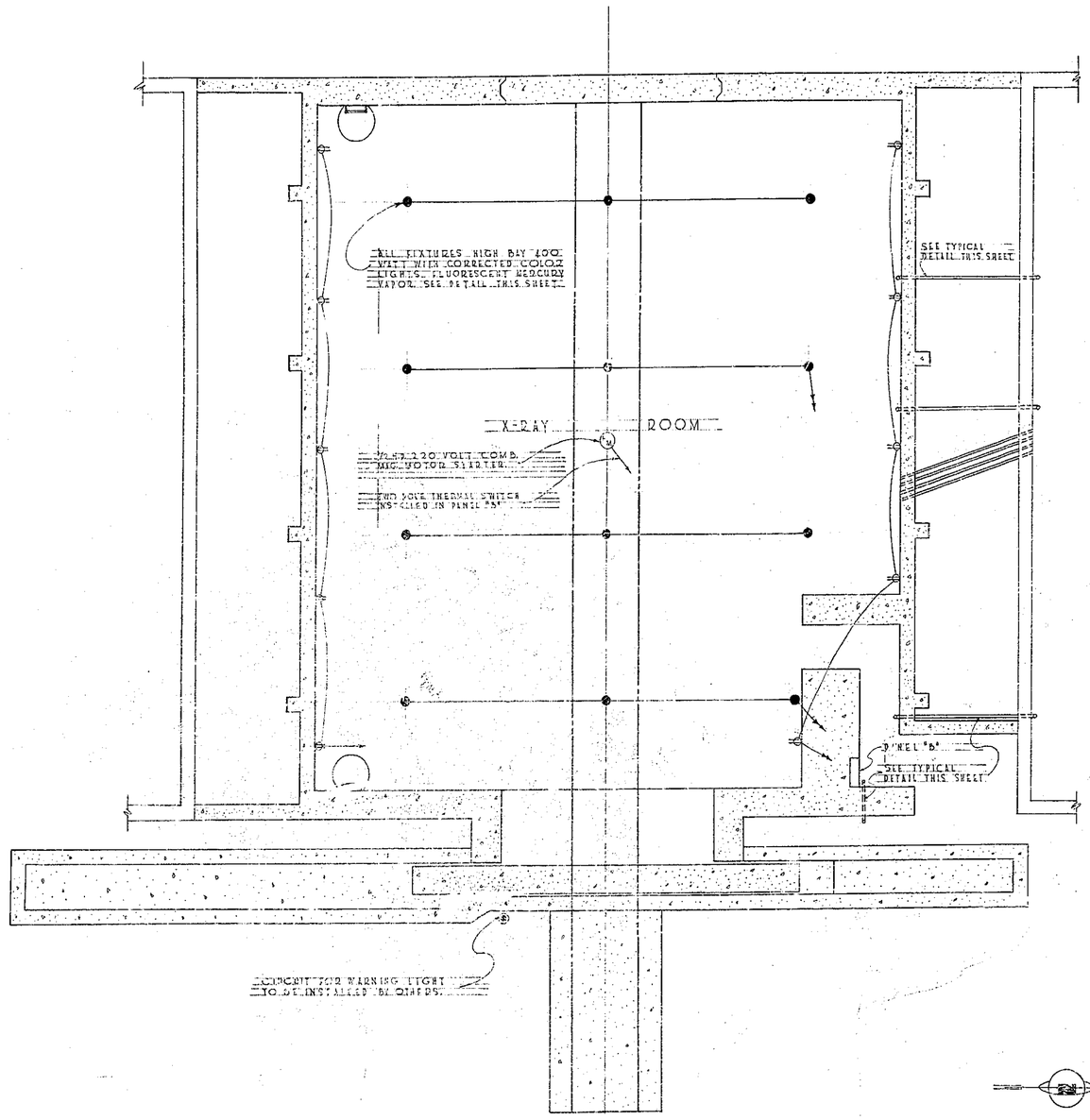


FLOOR PLAN

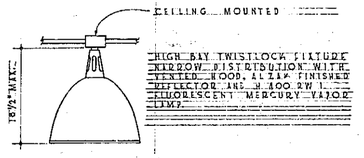
SCALE 1/4" = 1'-0"

NOTES

1. DOOR SWITCH SHALL BE CLOSED ONLY WHEN DOOR IS IN THE CLOSED POSITION.
2. DUPLEX RECEPTACLES IN X-RAY ROOM SHALL BE MOUNTED 12" ABOVE FLOOR.
3. CONDUIT FITTINGS SHALL NOT BE RECESSED IN 24" OR 12" WALLS NOR SHALL CONDUIT PASS THRU THESE WALLS UNLESS BELOW THE FLOOR LINE 18".
4. ALL WIRE TO BE STD. STRANDED COPPER.

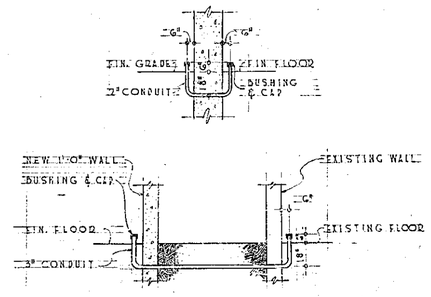
LEGEND

- CONDUIT EXPOSED
- CONDUIT CONCEALED IN CEILING OR WALL
- CONDUIT CONCEALED IN FLOOR
- FIXTURE # 28 9VF 200 WATT LAMP RED GLOBE AND GUARD. (WARNING LIGHT)
- UNIVERSIL #5262 DUPLEX RECEPTACLE 3 POLE GROUNDED.
- FRACTIONAL H.P. HTD. FAN MOTOR AND SOLENOID OPR. VALVE.
- FLUORESCENT MERCURY VAPOR (SEE DETAIL THIS SHEET)
- IP-B PANEL (B) G.E. CAT. 102 W.P. NLAB4/G4B.



DETAIL HIGH BAY FIXTURE

NO SCALE



TYPICAL ELECTRICAL SERVICE ENTRANCE DETAIL

SCALE 1/4" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY T. KINNEER
DRAWN BY T. G. SHIELDS F.E.D. 1956
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
— ELECTRICAL —

SUBMITTED — APPROVAL RECOMMENDED — APPROVED

APPROVED — DATE 18 Feb 58
APPROVED — DATE 18 Feb 58
APPROVED — DATE 18 Feb 58

PROJECT NO. HIL-29-8

DRAWING NUMBER 58-3866

SHEET 11 OF 11 — SCALE NOTED

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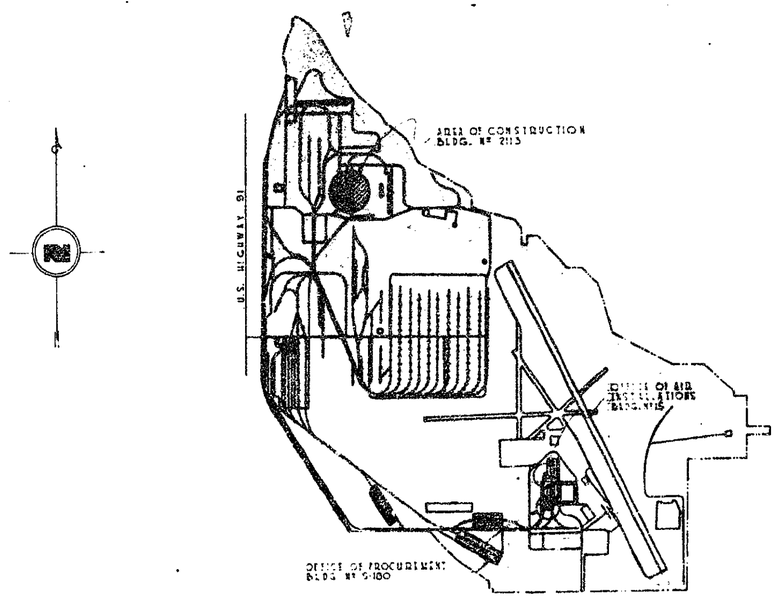
2113-58-E

MODIFICATION OF BUILDING Nº 2113
FOR
X-RAY FACILITIES

HILL AIR FORCE BASE · OGDEN, UTAH



VICINITY MAP
NO SCALE

- INDEX OF SHEETS -

1. COVER SHEET & VICINITY MAP
2. PLOT PLAN & UTILITY LAYOUT
3. FLOOR PLAN
4. EAST ELEVATION
5. WEST & SOUTH ELEVATIONS
6. TYPICAL SECTIONS THRU BUILDING
7. FOOTING FOUNDATION PLAN & DETAILS
8. WALL REINFORCING & CEILING FRAMING PLAN
9. MISCELLANEOUS STRUCTURAL DETAILS
10. MISCELLANEOUS & FENCE DETAILS
11. CONCRETE DOOR & TRACK DETAILS
12. MECHANICAL DETAILS OF SLIDING DOORS
13. PLUMBING & ROOF DETAILS
14. ELECTRICAL LIGHTING
15. ELECTRICAL POWER
16. ELECTRICAL DETAILS
17. ELECTRICAL DETAILS, GATE SWITCHES & MISCELLANEOUS
18. HEATING & VENTILATING

PREPARED BY INSTALLATIONS DIVISION
HILL AIR FORCE BASE OGDEN, UTAH

PROJECT Nº HIL-29-8
DRAWING Nº 58-3724
SHEET 1 OF 18

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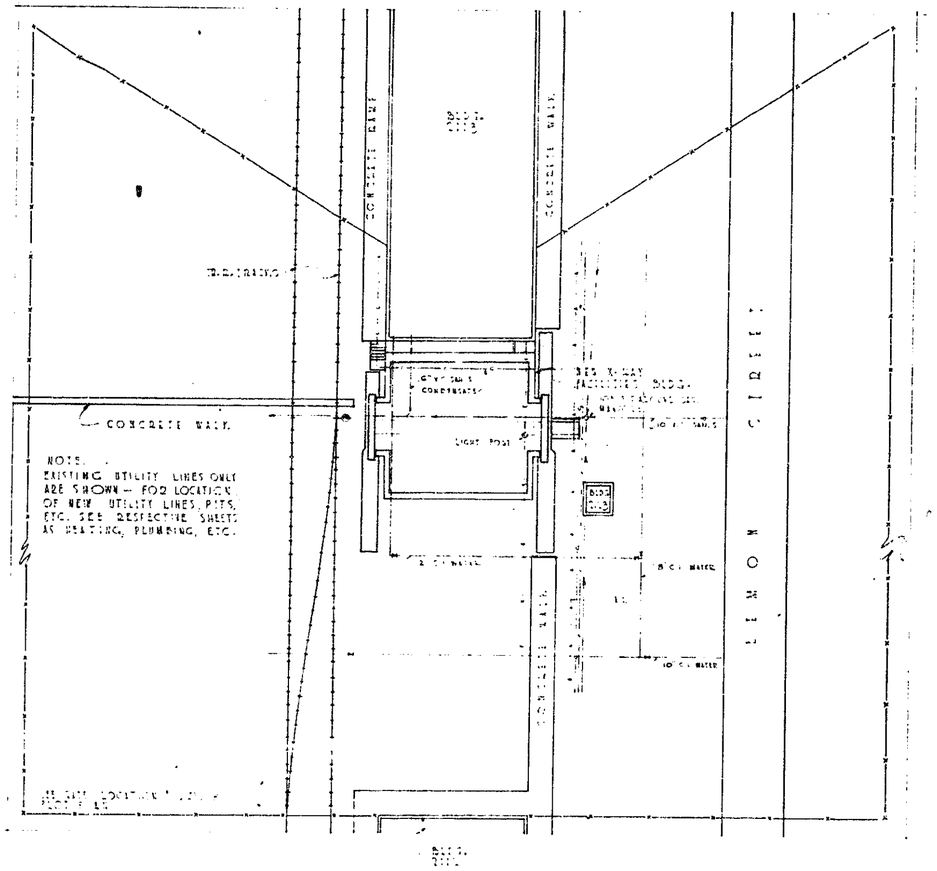
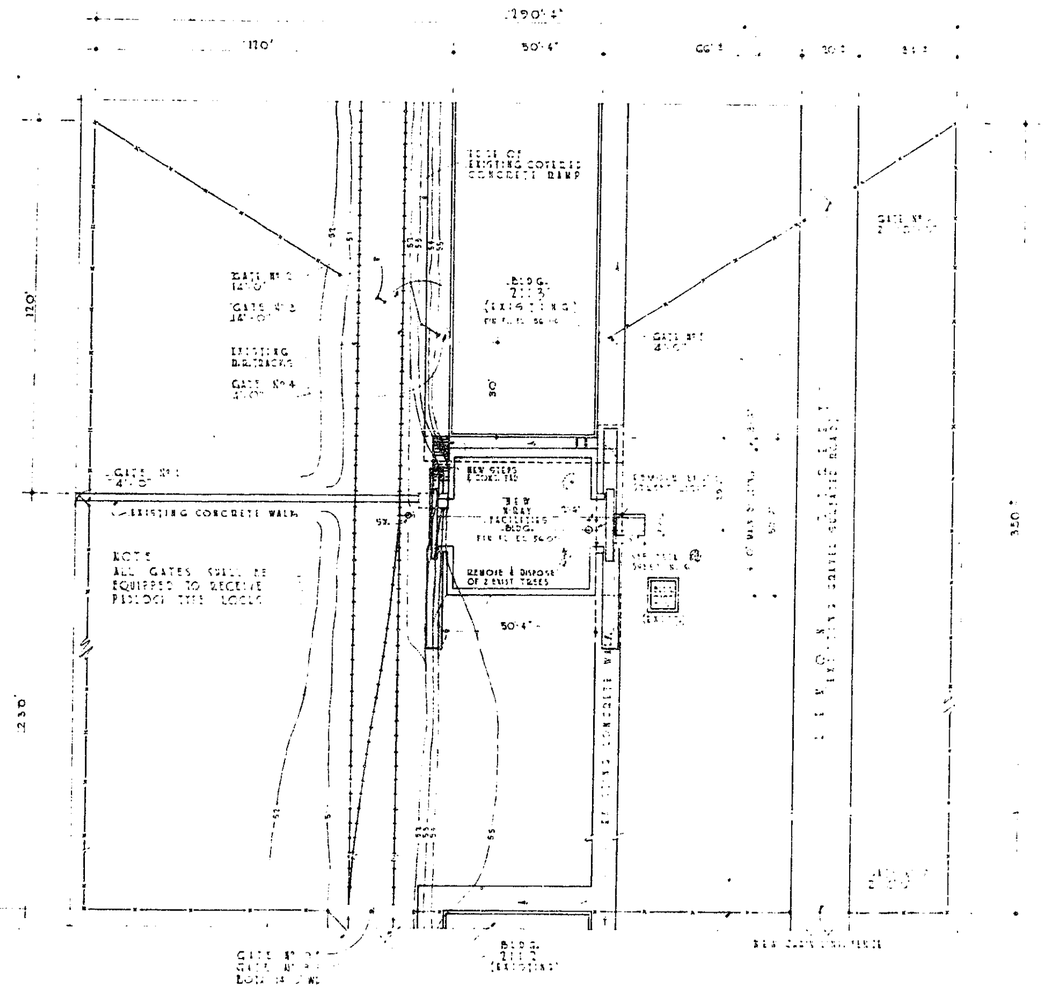


UTILITY PLAN

LEGEND

- COVER AND BUTTON
- STEAM
- AIR
- GAS
- WATER
- ELECTRIC UNDERGROUND



SITE PLAN

LEGEND

- EXISTING (UNDISTURBED)
- EXISTING TO BE REMOVED
- NEW CONSTRUCTION
- EXISTING CONTOUR
- NEW CONTOUR

DESIGN CHECK

CIVIL	
MECHANICAL	
STRUCTURAL	
ELECTRICAL	
ARCHITECTURAL	
DESIGN CHIEF	

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY
DRAWN BY
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING No 213 FOR
X-RAY FACILITIES
[illegible]

SUBMITTED — APPROVAL RECOMMENDED — APPROVED

APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO

DRAWING NUMBER
58-3224

SHEET 1 OF 9 — SCALE [illegible]

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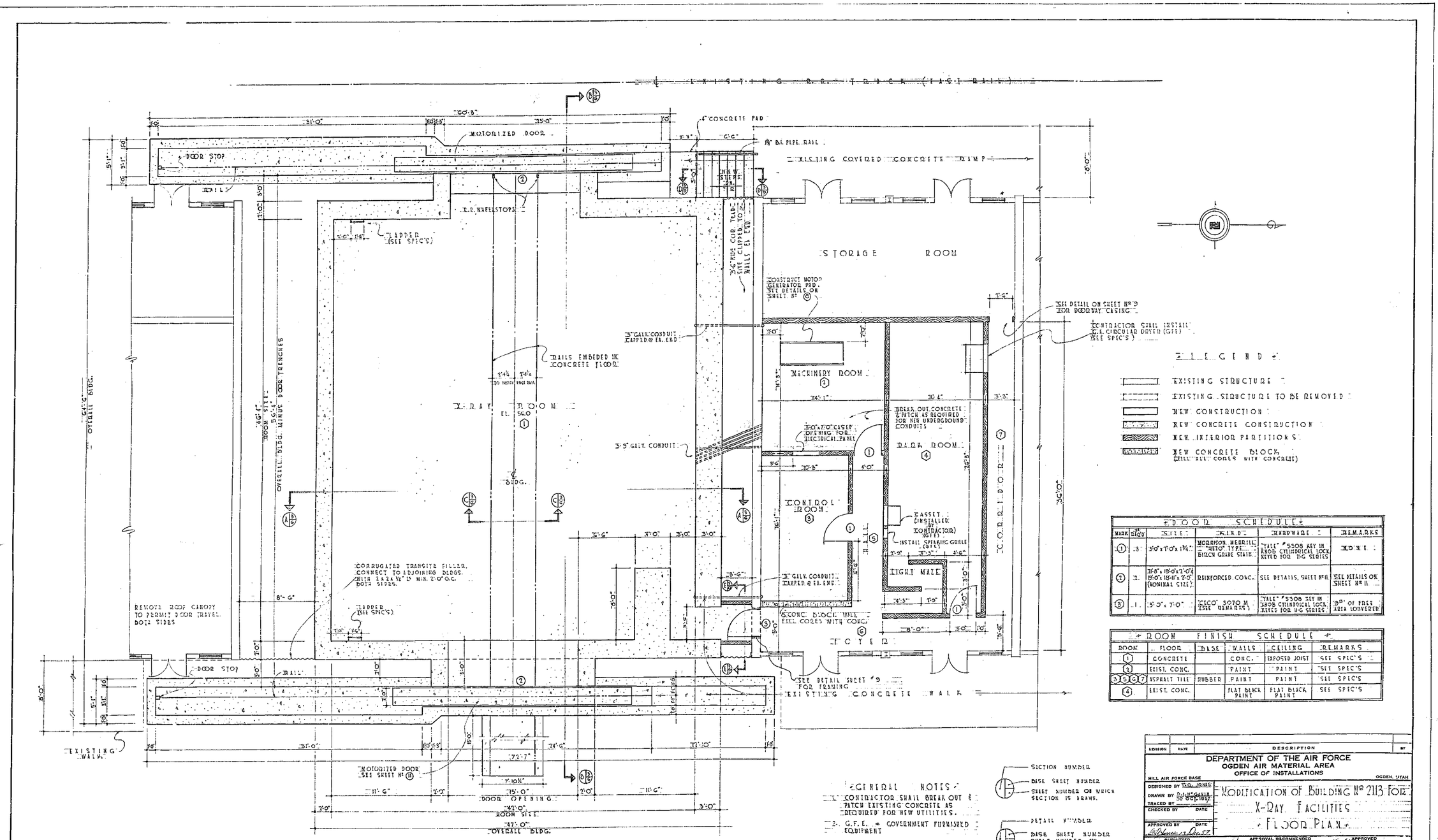
2113-57-C



DOOR SCHEDULE

MARK	No. OF DOOR	SIZE	MATERIAL	HARDWARE	REMARKS
1	3	3'-0"x7'-0"x1¾"	MORRISON MERRILL "METOT TYPE" BIRCH GRADE STAIN	"YALE" #5508 KEY IN KNOB CYLINDRICAL LOCK KEYED FOR M-G SERIES	NONE
2	2	11'-8"x 19'-0"x 2'-0" 8'-0"x 18'-11"x 2'-0" (NOMINAL SIZE)	REINFORCED CONC.	SEE DETAILS, SHEET Nº 11	SEE DETAILS ON SHEET Nº 11
3	1	3'-0"x 7'-0"	"CECO" 3070 M (SEE REMARKS)	"YALE" #5508 KEY IN KNOB CYLINDRICAL LOCK KEYED FOR M-G SERIES	19% OF FREE AREA COVERED

ROOM FINISH SCHEDULE

ROOM	FLOOR	BASE	WALLS	CEILING	REMARKS
1	CONCRETE		CONC.	EXPOSED JOIST	SEE SPEC'S
2	EXIST. CONC.		PAINT	PAINT	SEE SPEC'S
3 5 6 7	ASPHALT TILE	RUBBER	PAINT	PAINT	SEE SPEC'S
4	EXIST. CONC.		FLAT BLACK PAINT	FLAT BLACK PAINT	SEE SPEC'S

GENERAL NOTES

1. CONTRACTOR SHALL BREAK OUT & PATCH EXISTING CONCRETE AS REQUIRED FOR NEW UTILITIES.
2. G.F.E. = GOVERNMENT FURNISHED EQUIPMENT

SECTION NUMBER — SHEET NUMBER OR WHICH SECTION IS DRAWN.

DETAIL NUMBER — SHEET NUMBER OR WHICH DETAIL IS DRAWN

FLOOR PLAN

SCALE: ¼"=1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G.G. JONES
DRAWN BY D.L. ST. CLAIR 30 OCT. 1957
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
FLOOR PLAN

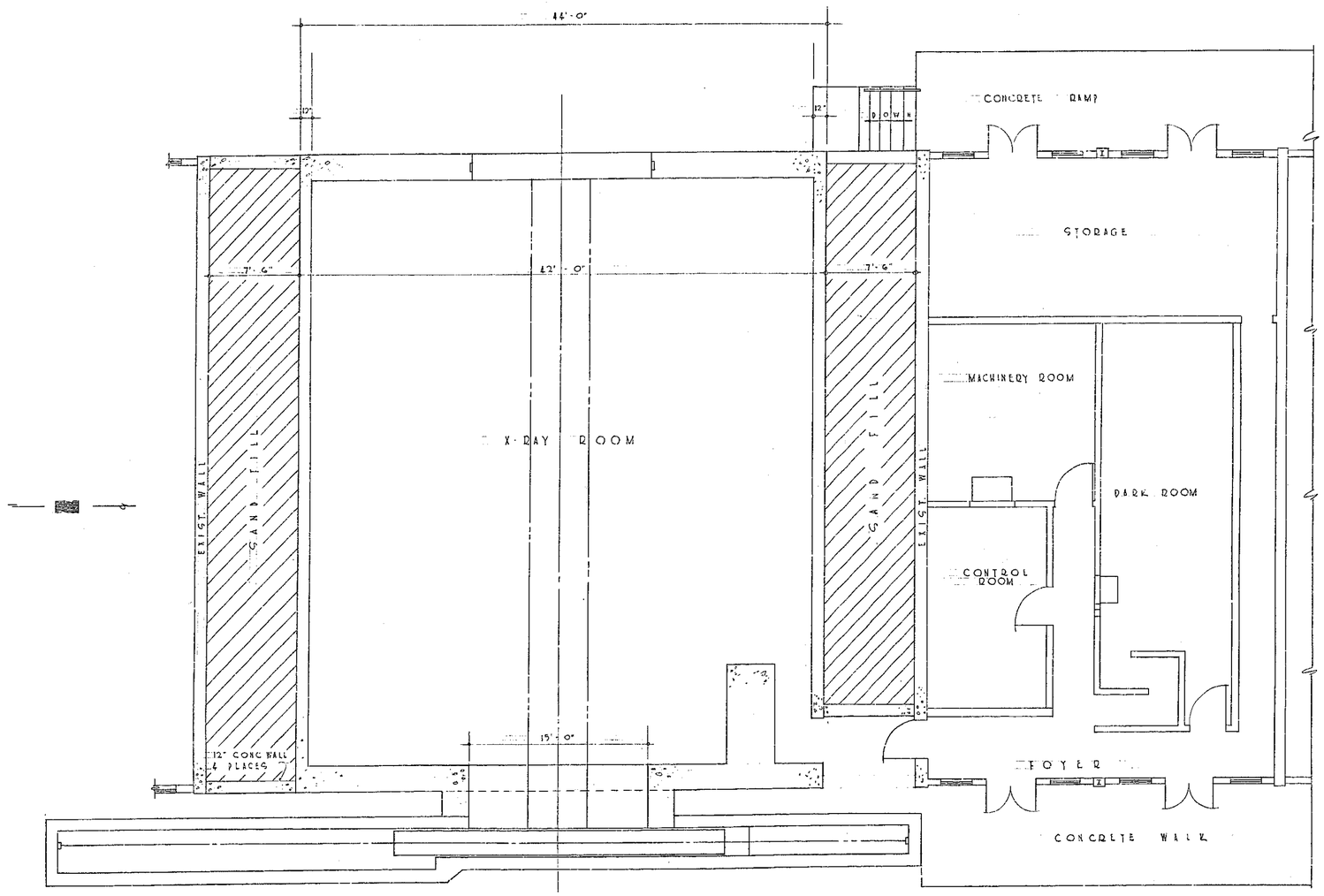
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO. AIL-29-8
DRAWING NUMBER 58-5837
SHEET 5 OF 16 — SCALE NOTED

99-27

295

2113-57-A



FLOOR PLAN
SCALE 1/4" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G. Q. JONES
DRAWN BY A.I.O.
TRACED BY 7-8-58
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
FLOOR PLAN

SUBMITTED — APPROVAL RECOMMENDED — APPROVED

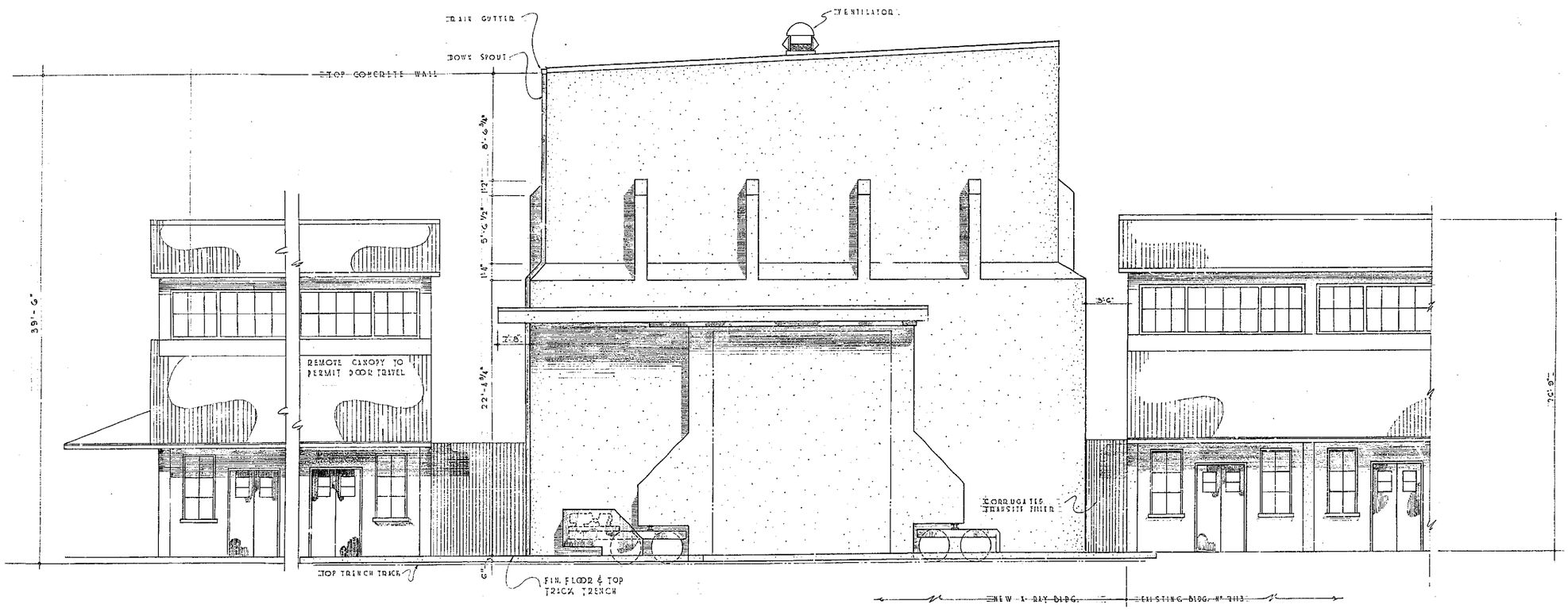
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO. HIL-29-8
DRAWING NUMBER 58-3837
SHEET 33 OF 70 SCALE 1" = 0.125

221

49-38

2113-58-A



EAST ELEVATION
SCALE 1/4" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY C.C. JONES
DRAWN BY D.J. MCALLIS 15 OCT. 1957
TRACED BY
CHECKED BY DATE
APPROVED BY DATE

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITY
EAST ELEVATION

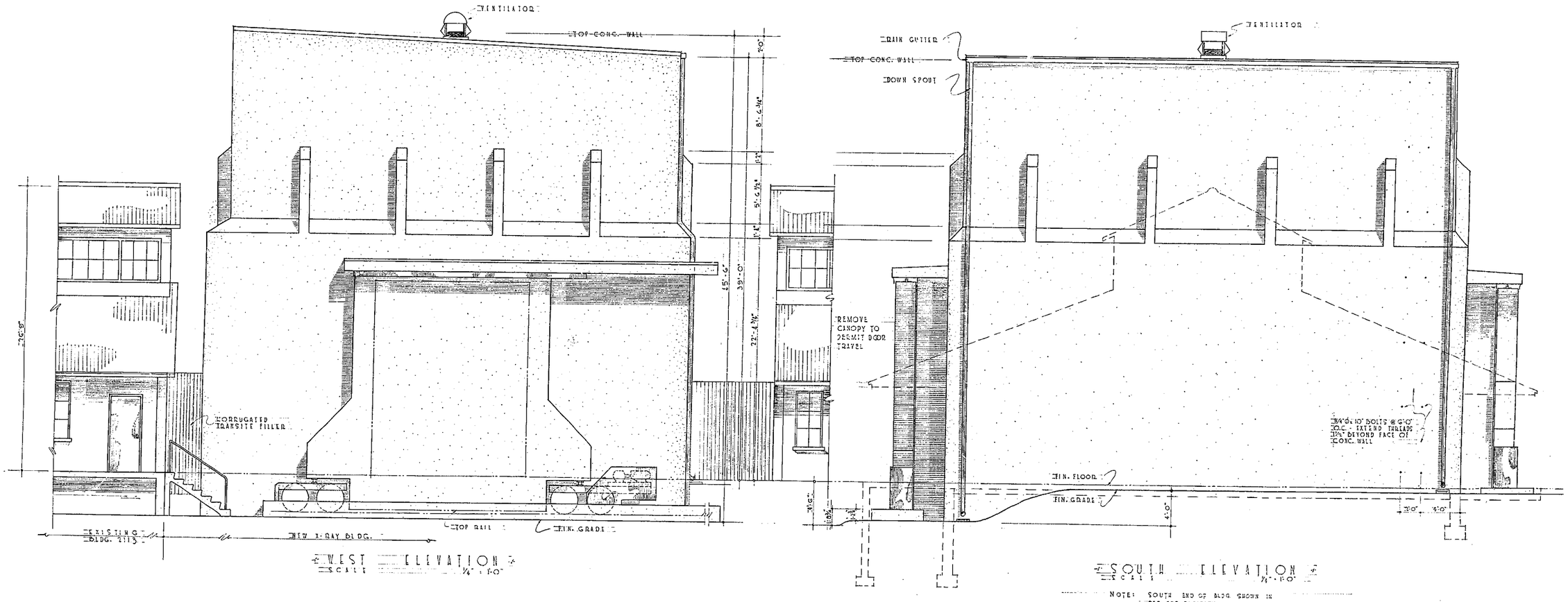
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO. 29-8
DRAWING NUMBER 58-3837
SHEET 4 OF 18 — SCALE 1/4" = 1'-0"

222

49-39

2113-57-A



REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G.O. JONES
DRAWN BY D.E. McGINN 20 NOV. 1957
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE — G.H. Jones 4 Dec 57

MODIFICATION OF BUILDING No. 2113 FOR X-RAY FACILITIES
WEST & SOUTH ELEVATIONS

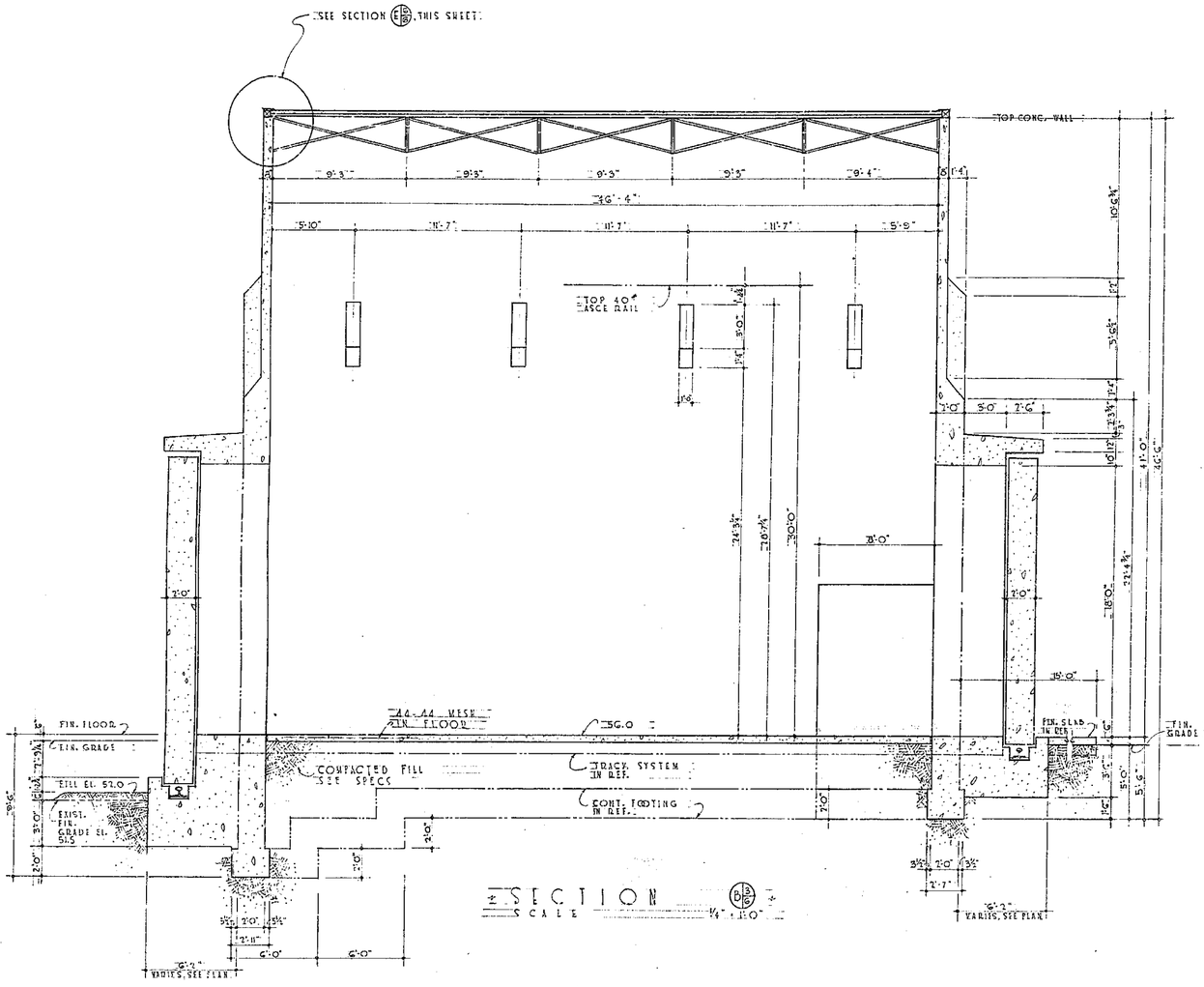
SUBMITTED — G.H. Jones
APPROVAL RECOMMENDED — J. O'Donnell
APPROVED — Robert E. Lane
APPROVED — Neil Lucas — DATE 13 Dec 57 — N.C.
APPROVED — Paul E. Rumpf Lt Col USAF — DATE 13 Dec 57
APPROVED — Gilbert P. Nellis, Maj USAF — DATE 13 Dec 57

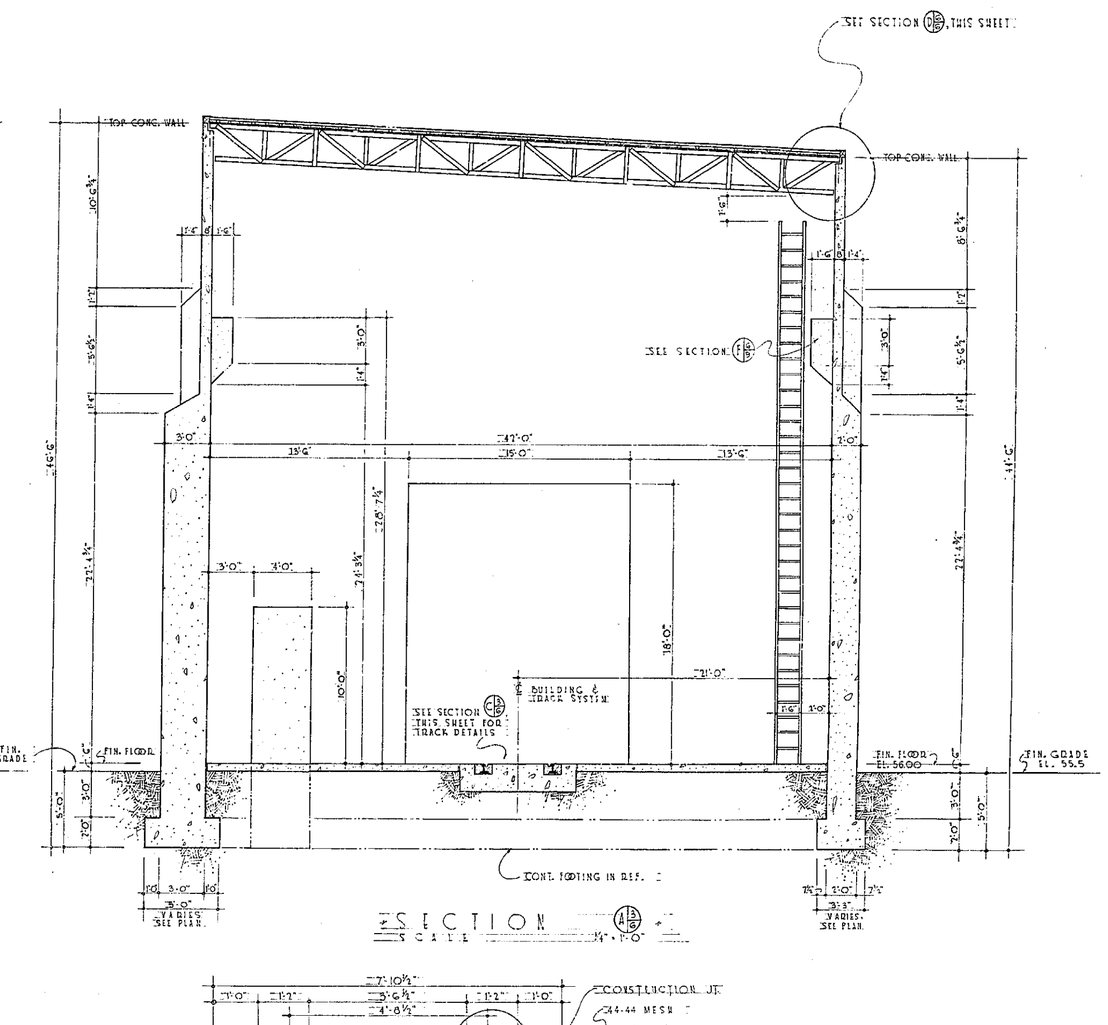
PROJECT NO. HIL-29-8
DRAWING NUMBER 58-3837
SHEET 5 OF 10 — SCALE NOTED

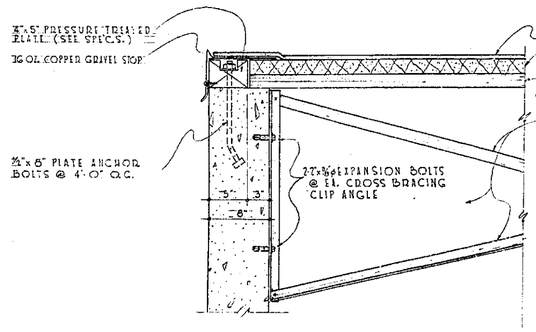
223

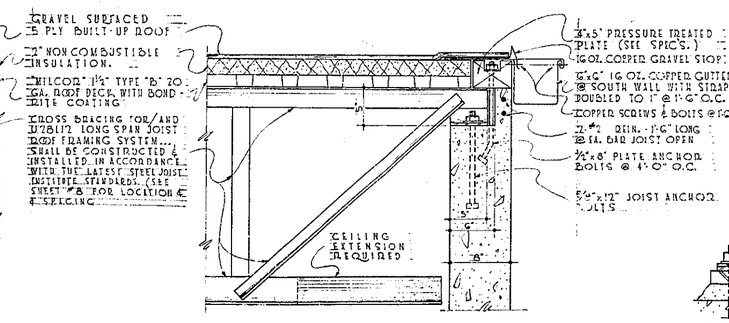
99-90

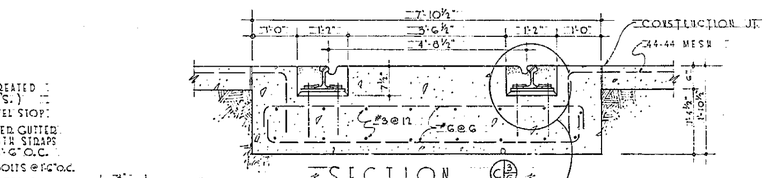
2113-57-A

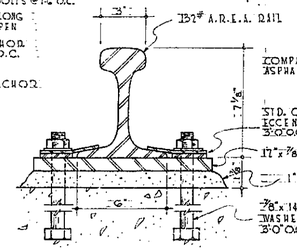


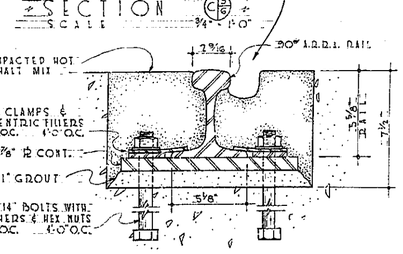












REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY C.O. JONES
DRAWN BY R.A. McCLUTE 15 NOV. 1955
TRACED BY
CHECKED BY DATE
APPROVED BY DATE
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED DATE 13 Dec 57
APPROVED DATE 13 Dec 57 RAF
APPROVED DATE 16 DEC 13 Dec 57

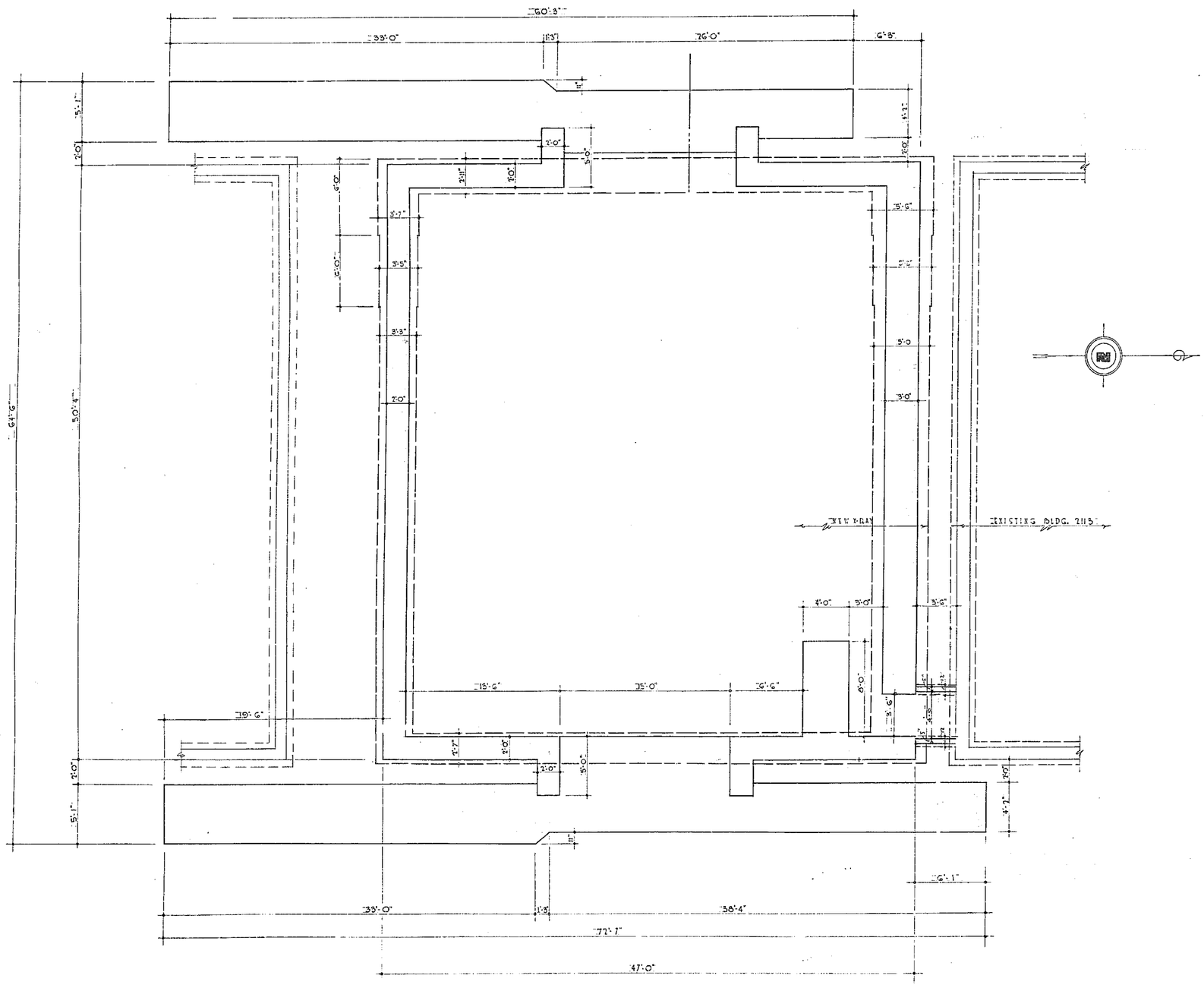
MODIFICATION OF BUILDING No 2113 FOR X-RAY FACILITIES
TYPICAL SECTIONS THRU BUILDING

PROJECT NO. HIL-29-8
DRAWING NUMBER 58-3837
SHEET 6 OF 18 SCALE NOTED

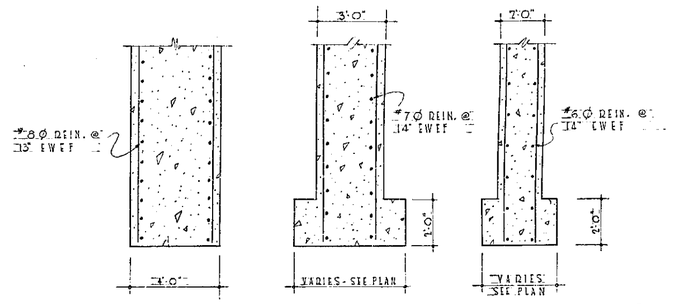
224

2113-57-A

49-41



FOOTING & FOUNDATION PLAN
SCALE 1/4" = 1'-0"



TYPICAL REIN. AT FOOTINGS & FOUNDATION WALLS
SCALE 3/8" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY S.G. JONES
DRAWN BY R.L. MCGAHEY 6 NOV. 1957
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING No 2113 FOR X-RAY FACILITIES
FOOTING, FOUNDATION PLAN & DETAILS

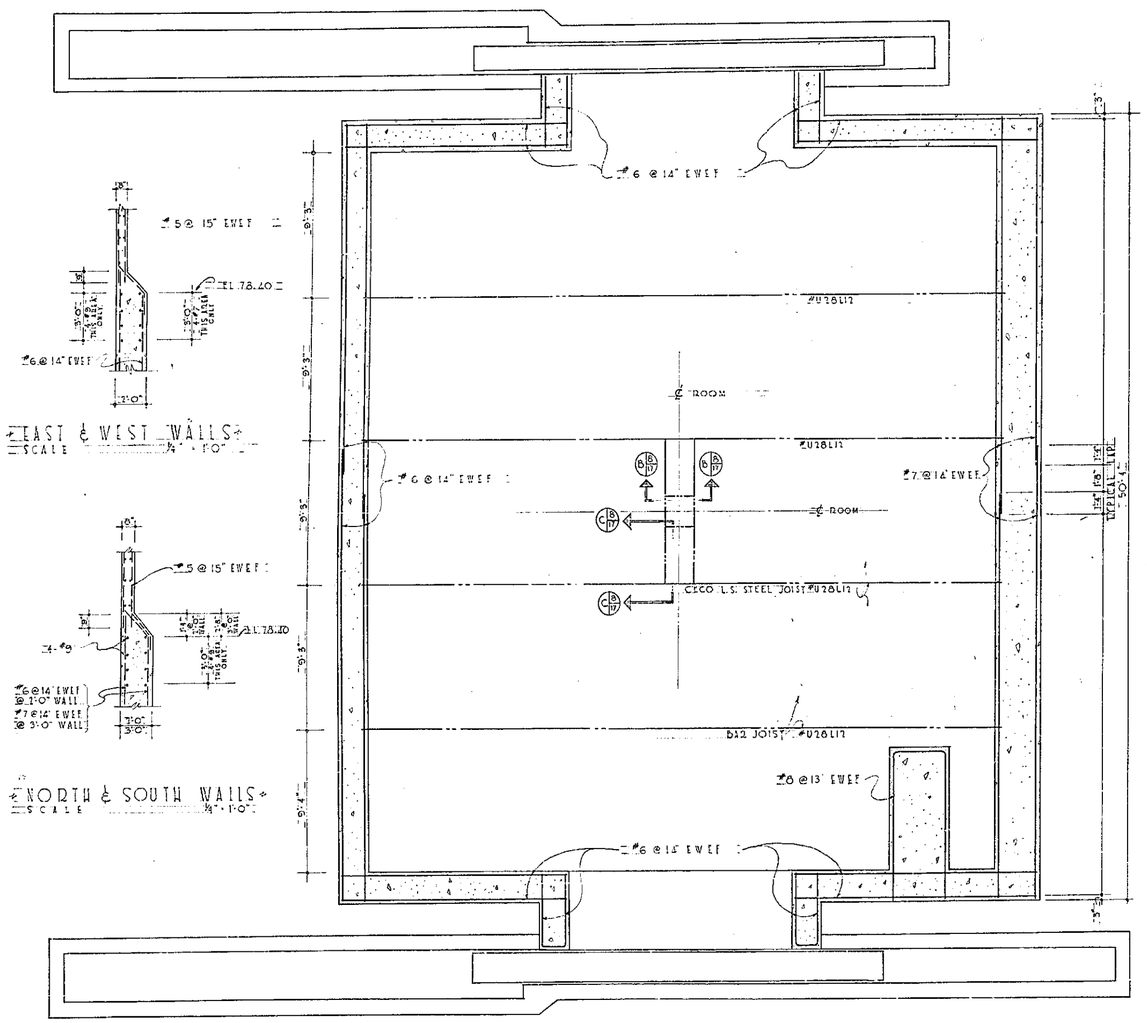
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO. 111L-29-8
DRAWING NUMBER 58-3837
SHEET 1 OF 18 — SCALE NOTED

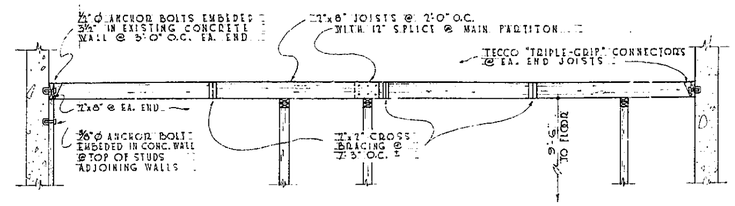
225

2113-57-A

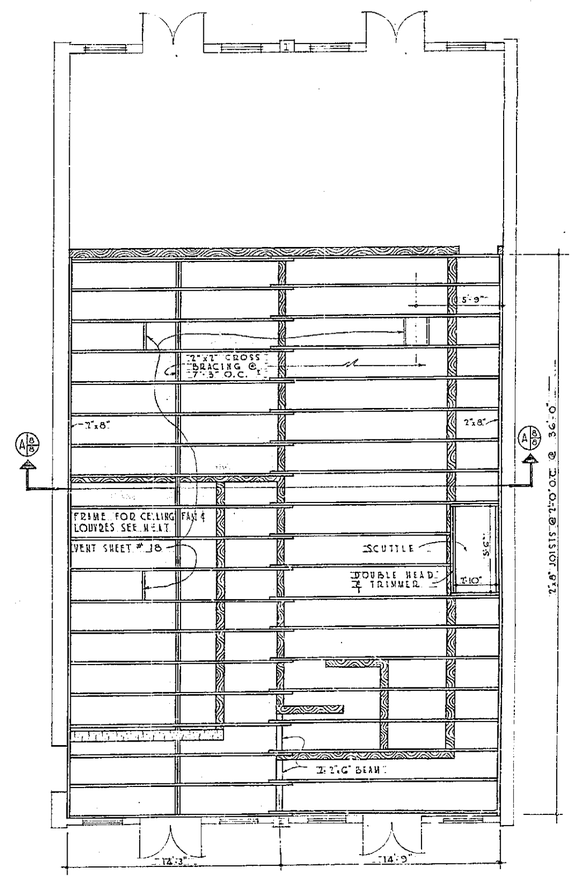
99-92



WALL REINFORCING & ROOF FRAMING
SCALE 1/4" = 1'-0"

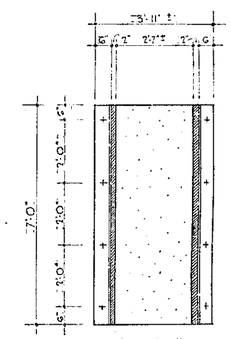


SECTION
SCALE 3/8" = 1'-0"

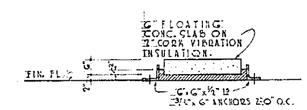


CEILING FRAMING PLAN
SCALE 1/4" = 1'-0"

NOTE:
DIMENSIONS SHOWN BELOW ARE APPROX. ONLY. FINAL DIMENSIONS SHOULD CONFORM WITH MANUFACTURERS SPECIFICATIONS.



PLAN



END ELEVATION

DETAIL OF MOTOR GENERATOR BASE
SCALE 1/2" = 1'-0"

99-118

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY E.G. JONES
DRAWN BY R.L. McGIVIN / B. OCT. 1957
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

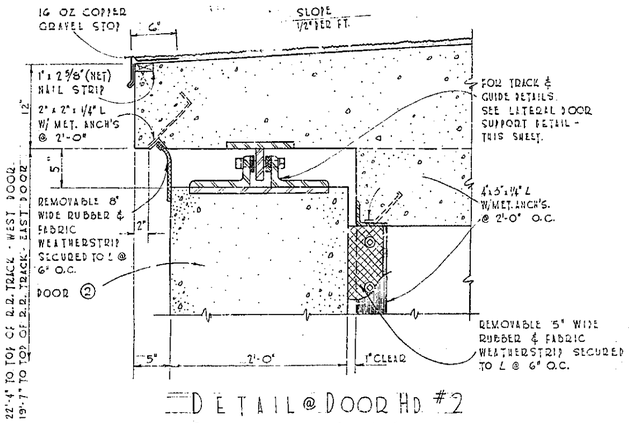
MODIFICATION OF BUILDING No 2113 FOR X-RAY FACILITIES
WALL REINFORCING & CEILING FRAMING PLAN

SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

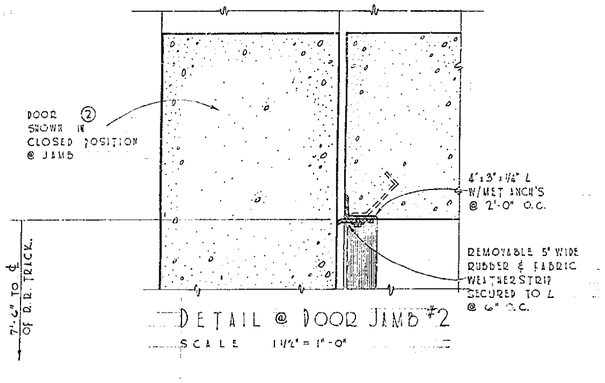
PROJECT NO. HIL 29-8
DRAWING NUMBER 58-3837
SHEET 6 OF 18 SCALE NOTED

226

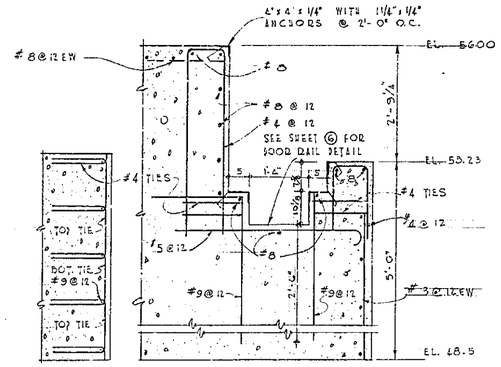
2113-57-A



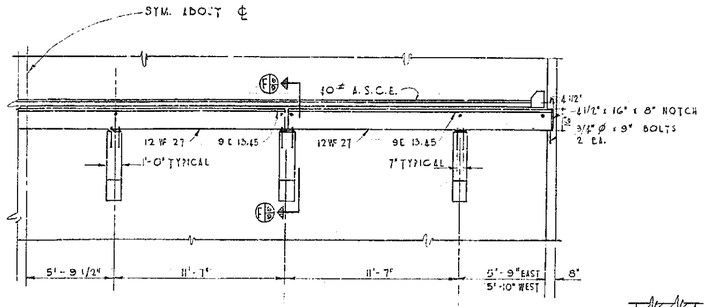
DETAIL @ DOOR HD. #2
SCALE 1 1/2" = 1'-0"



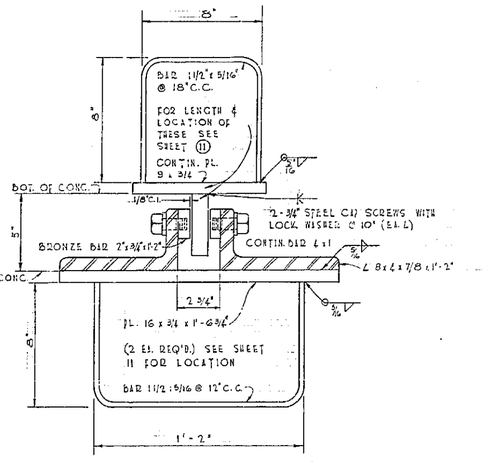
DETAIL @ DOOR JAMB #2
SCALE 1 1/2" = 1'-0"



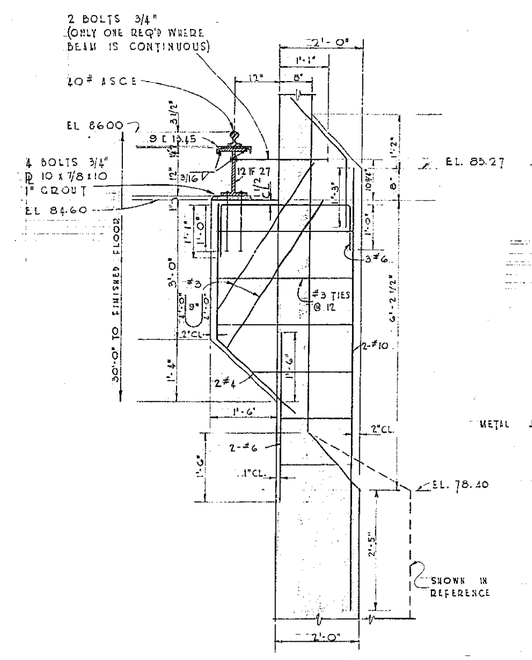
PLAN SECTION F 11/9
SCALE 3/4" = 1'-0"



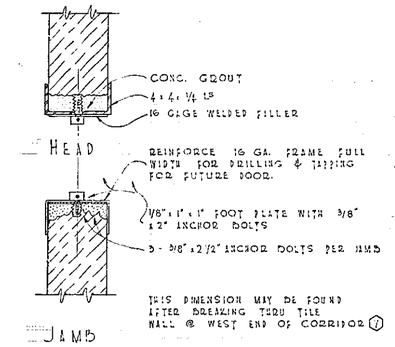
CRANE RUNWAY
SCALE 1/4" = 1'-0"



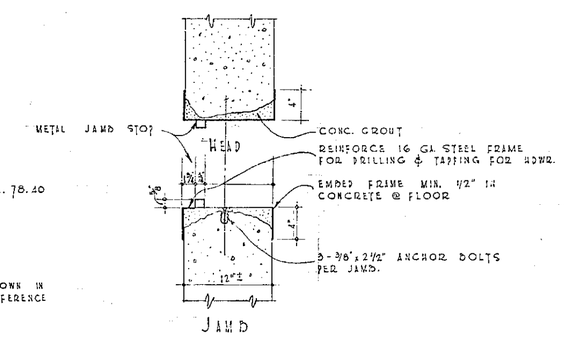
LATERAL DOOR SUPPORT
SCALE 3" = 1'-0"



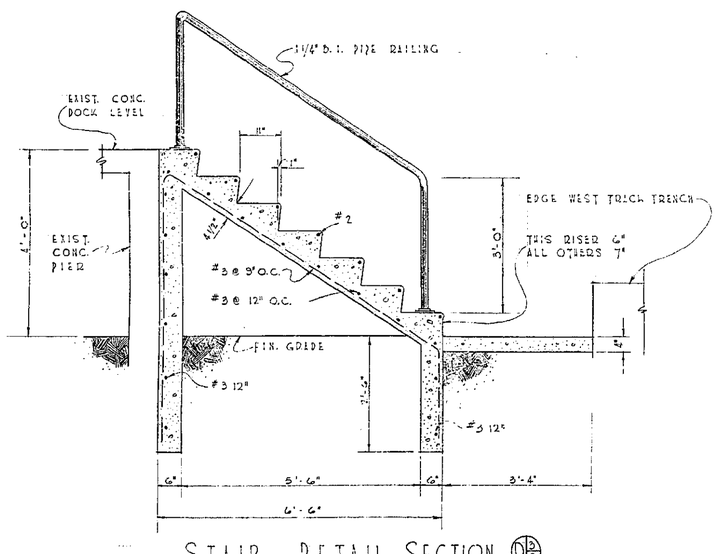
SECTION F 10/9
SCALE 3/4" = 1'-0"



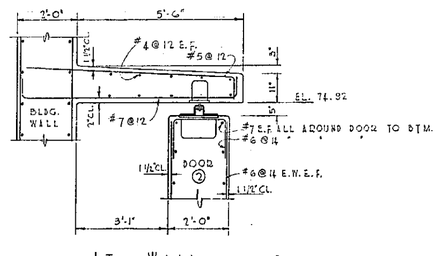
HEAD & JAMB DETAILS TILE WALL OPENING
WEST END CORRIDOR #7
SCALE 1 1/2" = 1'-0"



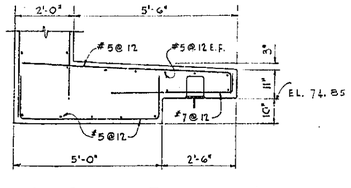
HEAD & JAMB DETAIL @ 12" CONC. WALL
SCALE 1 1/2" = 1'-0"



STAIR DETAIL SECTION D 10/9
SCALE 3/4" = 1'-0"



AT WALL
SCALE 3/8" = 1'-0"



AT DOOR OPENING
SCALE 3/8" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G. Q. JONES
DRAWN BY L. G. SHIELDS
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
MISC. STRUCTURAL DETAILS

SUBMITTED — APPROVAL RECOMMENDED — APPROVAL

APPROVED — DATE — PROJECT NO. HILL-29-8
APPROVED — DATE — DRAWING NUMBER 58-3837
APPROVED — DATE — SHEET 6 OF 18 — SCALE NOTED

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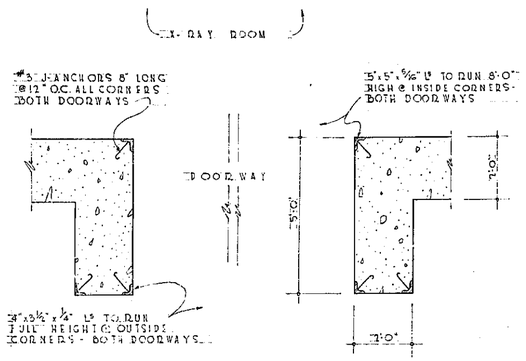
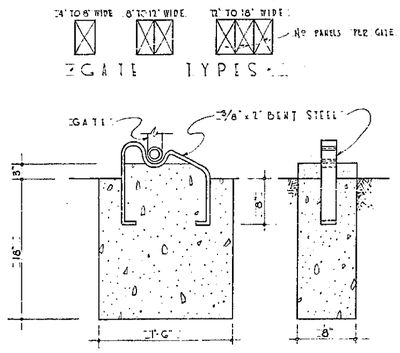
2113-57-A-S

49-43

GATE POST & FOOTING SCHEDULE		
GATE WIDTH	POST SIZE - STD. PIPE OR EQUAL	CONCRETE FOOTING SIZE
10'-0" TO 14'-0"	MIN. 2.875 O.D.	2'-0"x2'-0"x1'-0" FTG. WITH 1'-4" SQUARE REIN. CONCRETE PIER POURED MONOLITHIC
14'-0" TO 15'-0"	MIN. 4" O.D.	2'-4"x2'-4"x1'-0" FTG. WITH 1'-8" SQUARE REIN. CONCRETE PIER POURED MONOLITHIC
15'-0" TO 18'-0"	MIN. 6.625 O.D.	2'-8"x2'-8"x1'-2" FTG. WITH 1'-8" SQUARE REIN. CONCRETE PIER POURED MONOLITHIC

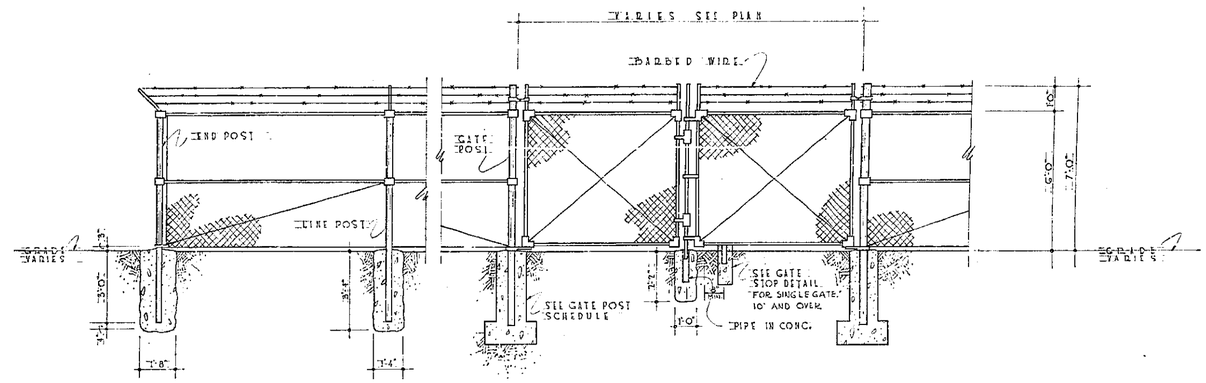


PLAN OF DOORWAY GUARDS
SCALE 1/4" = 1'-0"



GATE TYPES

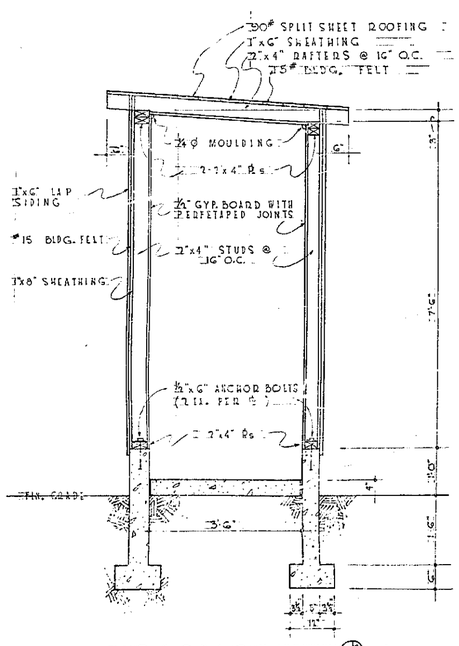
GATE STOP DETAIL
SCALE 1 1/2" = 1'-0"



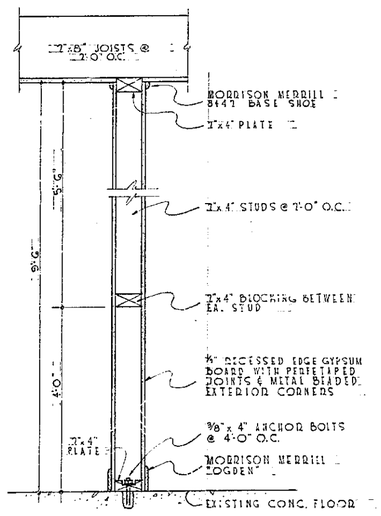
TYPICAL FENCE & GATE DETAILS
SCALE 3/8" = 1'-0"

FENCE NOTES:

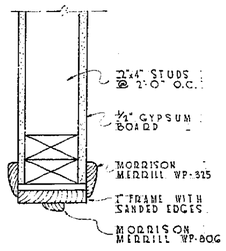
1. ALL GATES TO HAVE PADLOCK LATCHES (LOCKS FURNISHED BY GOVT.)
2. GATES TO OPEN TO 180° WHERE POSSIBLE & TO BE EQUIPED WITH GATE POST (AS SHOWN ON DRWG.) TO HOLD GATES IN OPEN POSITION.
3. ALL METAL USED ON FENCES & GATES TO BE HOT DIPPED GALVANIZED.



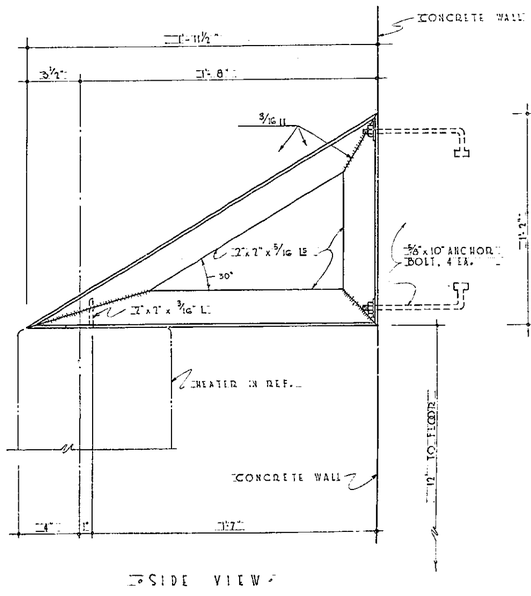
SECTION
SCALE 1/4" = 1'-0"



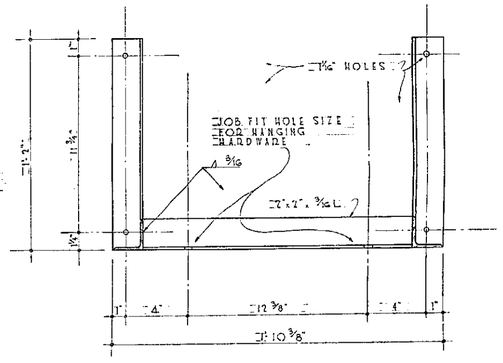
TYPICAL INTERIOR WALL
SCALE 1 1/2" = 1'-0"



INTERIOR JAMB & HEAD
SCALE 3" = 1'-0"



SIDE VIEW



FRONT VIEW

HEATED BRACKET DETAIL
SCALE 3" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY S.G. 10 DEC 1957
DRAWN BY R.A. McCLYE 10 DEC 1957
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE 13 Dec 57

MODIFICATION OF BUILDING No. 2113 FOR X-RAY FACILITIES
MISCELLANEOUS & FENCE DETAILS

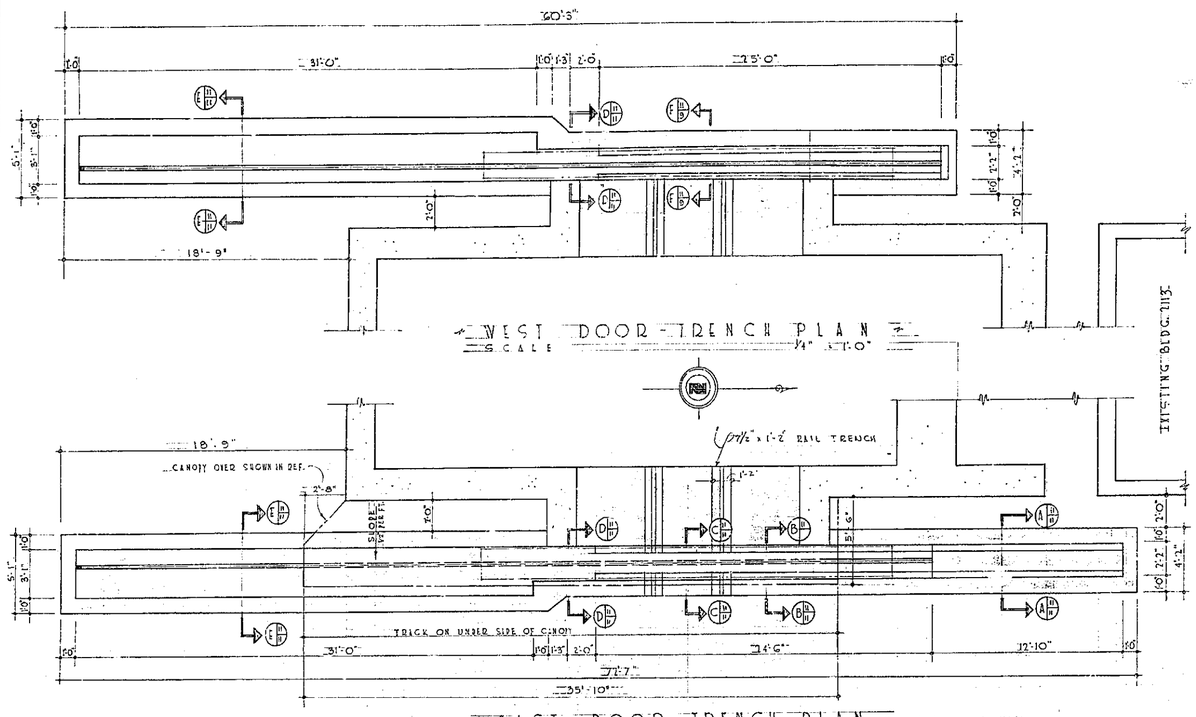
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

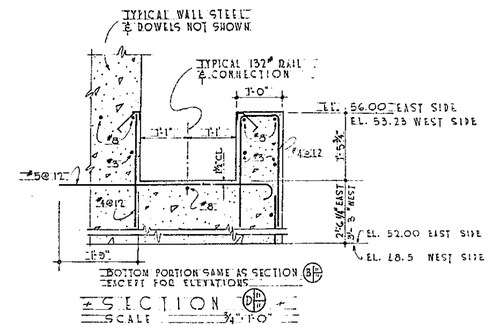
PROJECT NO. 411-79-8
DRAWING NUMBER 58-3837
SHEET 10 OF 18 SCALE NOTED

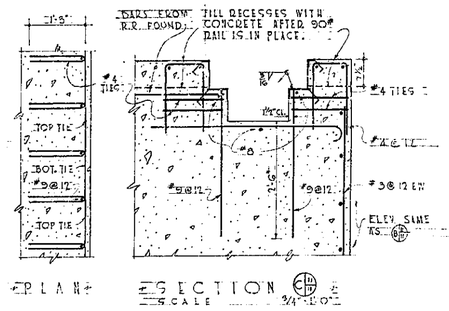
228

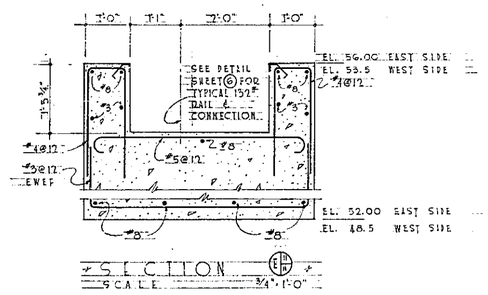
2113-57-A

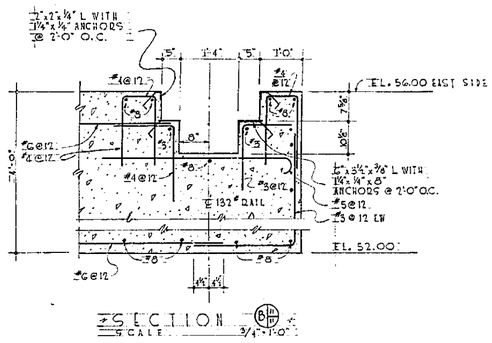
49-99

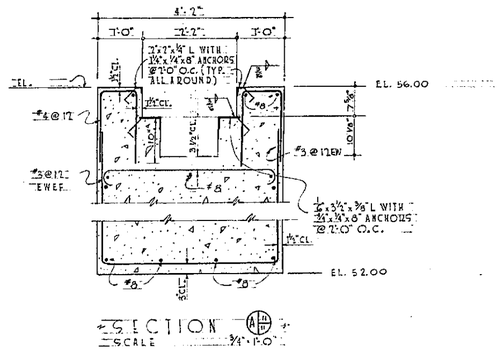


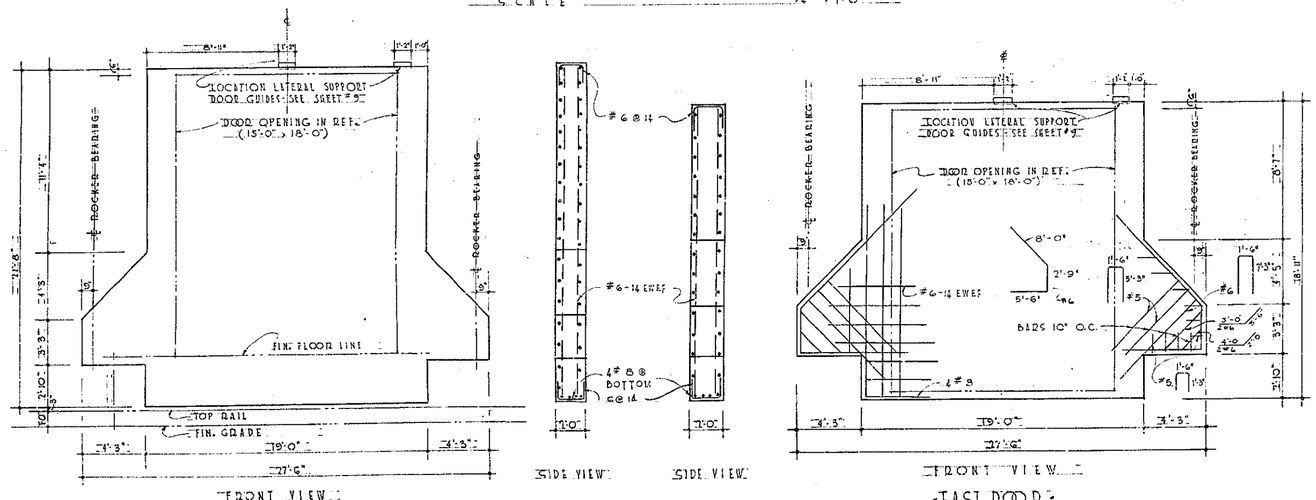


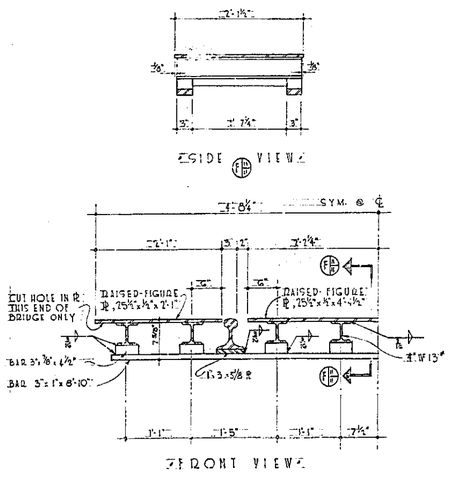












CONCRETE SLIDING DOOR DETAILS
SCALE 1/4" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY — DRAWN BY — TRACED BY — CHECKED BY — APPROVED BY — SUBMITTED — APPROVAL RECOMMENDED — APPROVED — APPROVED — APPROVED

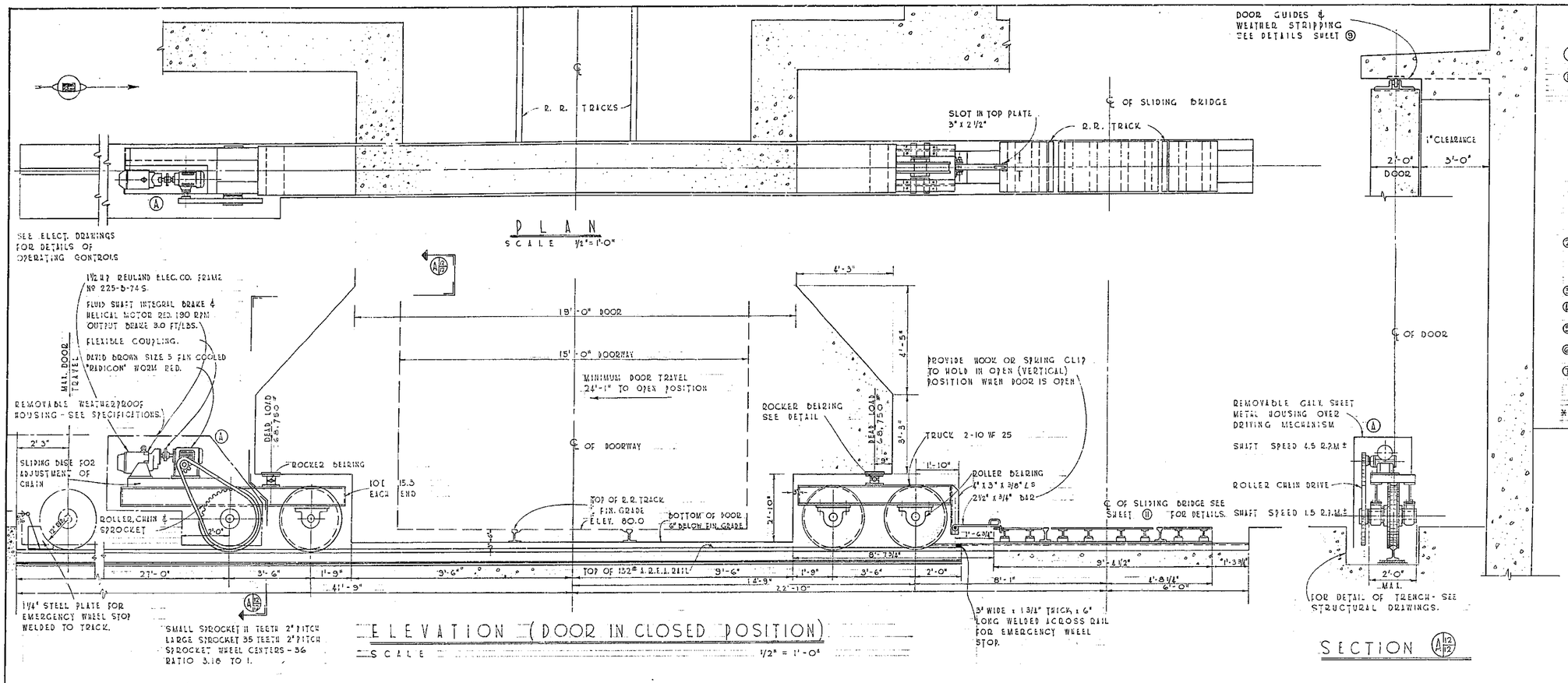
MODIFICATION OF BUILDING No. 2113 FOR X-RAY FACILITIES
CONC. DOOR & TRACK DETAILS

PROJECT NO. HIL-29-8
DRAWING NUMBER 58-38-57
SHEET 11 OF 13 SCALE NOTED

229

2113-57-A

49-45



Ⓐ CALCULATIONS

① MOTOR H.P. REQD. (SHAW BOI METHOD FOR BRIDGE DRIVES).

$$\text{TRACTION} = \frac{\text{DR. WT. X C.TO C. OF ROLLERS X ROLLER DRG. COEF. OF FRIC.}}{\text{WH'L DIA. X TOTAL GEARING EFF.}}$$

$$* = \frac{137{,}500^{\#} \times 4.5'' \times 0.035}{24'' \times 0.65}$$

$$= 1{,}388 \text{ LBS.}$$

$$\text{MOTOR H.P.} = \frac{\text{TRACTION X DOOR SPEED}}{20{,}600 \text{ (FOR A.C. MOTORS)}}$$

$$= \frac{1{,}388 \times 9.42}{20{,}600}$$

$$= 0.63 \text{ H.P.}$$

②

UNIT	OUTPUT TORQUE	REDUCTION	OUTPUT S'PD	EFFICY.
FLD DRIVE GR MTR.	497 IN-LBS		190 R.P.M.	15 H.P.
ANGLE GEAR DWG-5	13,280 "	40:1	4.75 "	66.5 %
2" ROLLER CHN. DR.	41,200 "	3.18:1	1.5 "	98 %

③ DOOR SPEED = 2π R.N = 2π x 1' x 1.5 = 9.42 F.P.M.

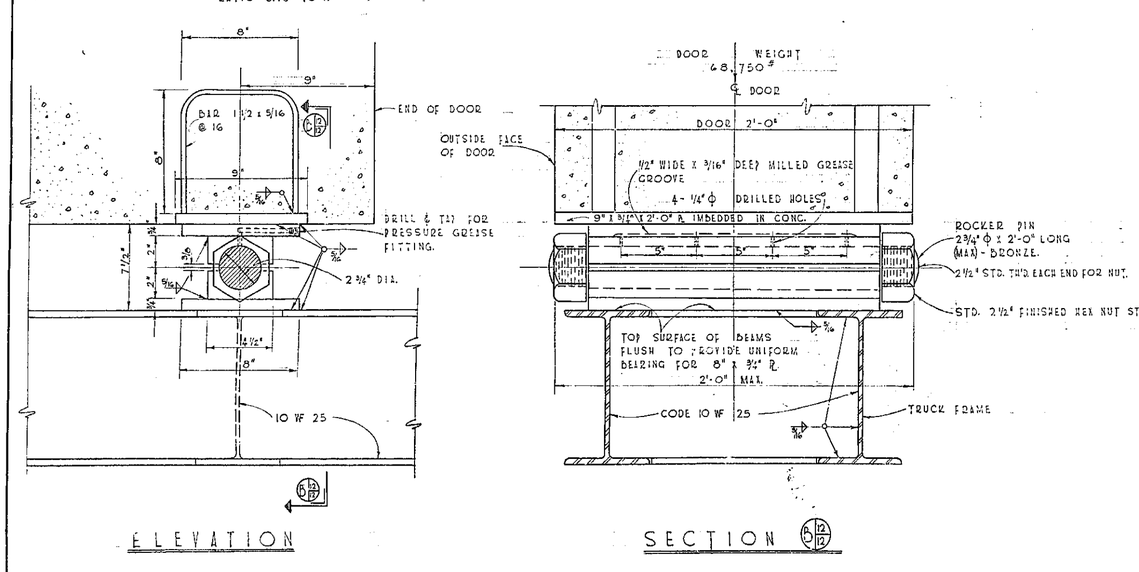
④ AVAILABLE DRIVE WHL TRACTION = $\frac{41{,}200}{12}$ IN-LBS = 3,500 LBS (S.F. 2.5)

⑤ COEF. OF DRIVE WHEEL FRICTION = $\frac{3{,}500}{33{,}000}$ = 0.106

⑥ ROLLER CHAIN TENSION = $\frac{41{,}200}{11.156 \text{ (PITCH RAD)}}$ = 3,700 LBS.

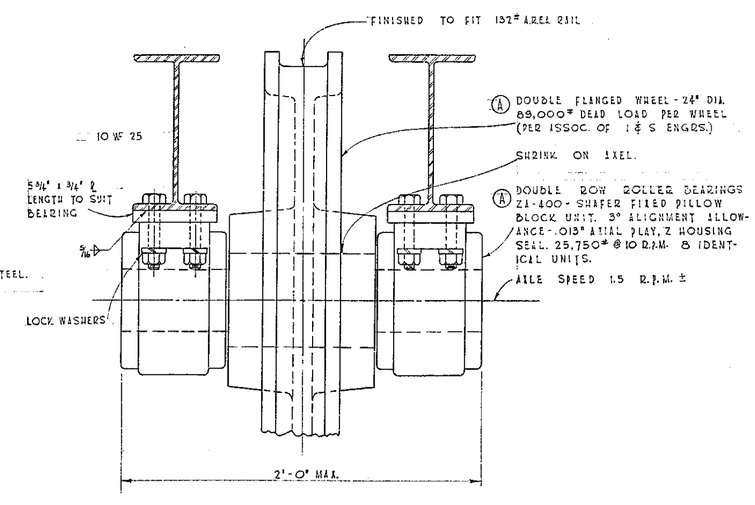
⑦ CHAIN SAFETY FACTOR = $\frac{54{,}000}{3700 \text{ LBS.}}$ = 14.6

* THE ABOVE COMPUTATIONS ARE BASED ON THE HEAVIER WEST DOOR.



DETAIL OF ROCKER BEARING

SCALE 3" = 1'-0"



DETAIL OF WHEEL BEARING ASSEMBLY

SCALE 3" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G.O. JONES
DRAWN BY L.G. SHIELDS NOV. 1957
TRACED BY
CHECKED BY
APPROVED BY — DATE 12 Dec 57

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
MECHANICAL DETAILS OF DOOR

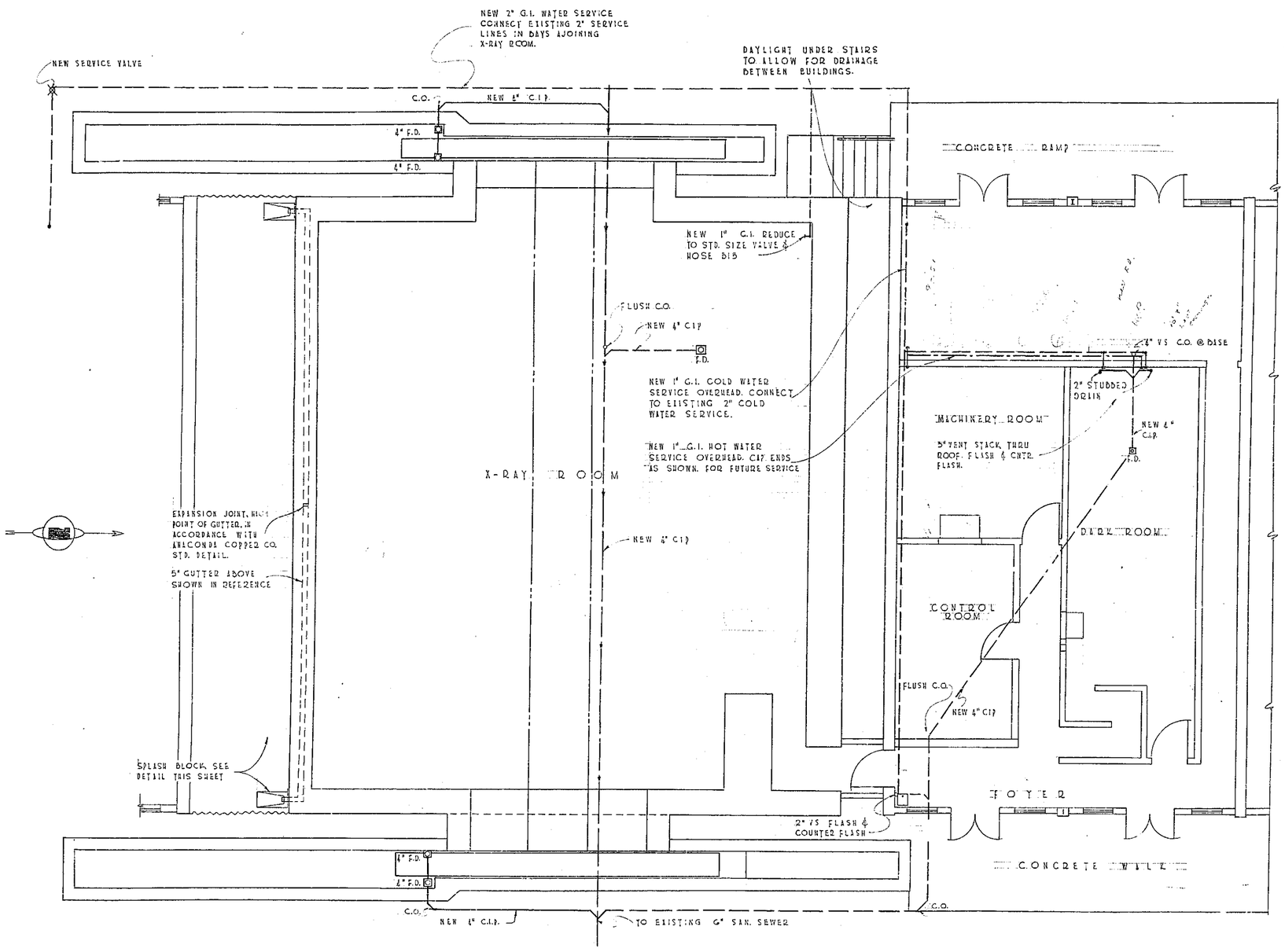
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO. 411-29-8
DRAWING NUMBER 58-3837
SHEET 12 OF 18 SCALE NOTED

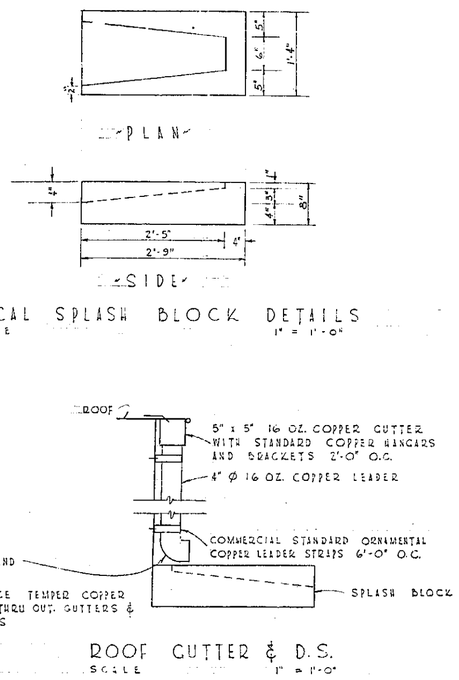
230

2113-57-M

99-96



PLUMBING PLAN
SCALE 1/4" = 1'-0"



TYPICAL SPLASH BLOCK DETAILS
SCALE 1" = 1'-0"

ROOF GUTTER & D.S.
SCALE 1" = 1'-0"

NOTES

1. PROTECT ALL NEW & EXISTING PIPES PASSING THRU NEW FOOTINGS OR FOUNDATION WALLS WITH A MIN. OF 2" OF SEMI RIGID MASTIC ON ALL EDGES. EXCEPT V.C. SEWER PIPE WHICH SHALL BE PROTECTED AS SHOWN ON SHEET 7

LEGEND

- 2" FLOOR DRAIN WITH TRAP
- 4" FLOOR DRAIN WITH TRAP
- COLD WATER
- HOT WATER
- SANITARY SEWER

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY S. O. JONES
DRAWN BY L.C. SKIELDS (AUG. 1957)
TRACED BY
CHECKED BY
APPROVED BY — DATE 13 Dec 57

MODIFICATION OF BUILDING No 2113 FOR X-RAY FACILITIES
PLUMBING & ROOF DETAILS

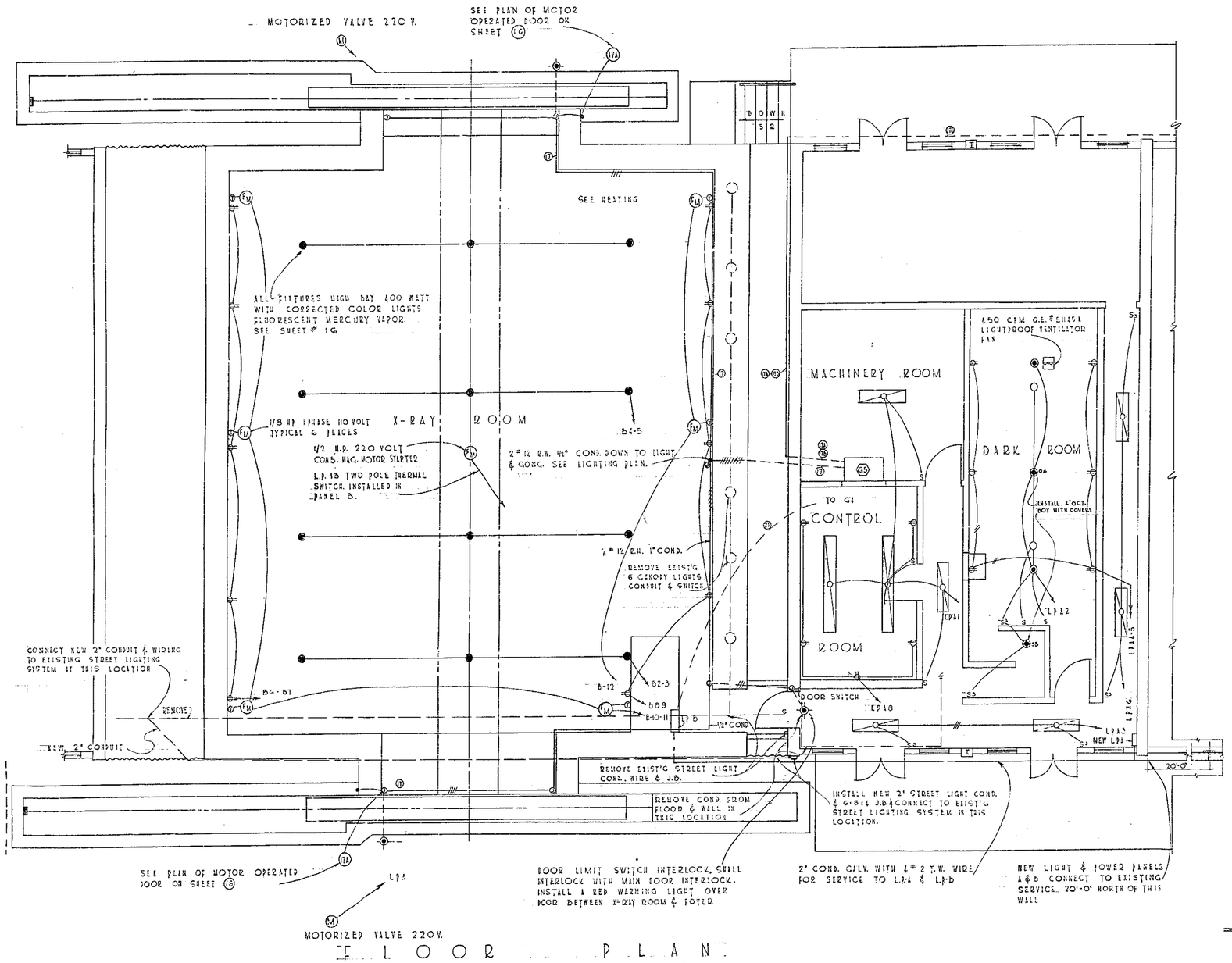
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO. 111-29-8
DRAWING NUMBER D6-3837
SHEET 13 OF 18 SCALE NOTED

231

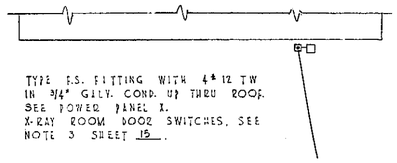
2113-57-C-A

49-97



FLOOR PLAN

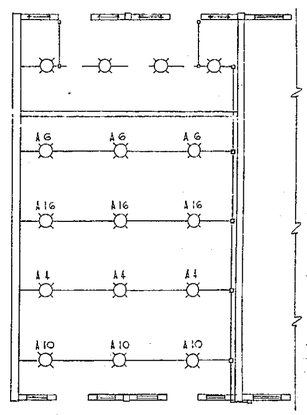
SCALE 1/4" = 1'-0"



NOTES

1. ALL OUTLETS TO BE 4 FT. FROM FLOOR.
2. GROUND ALL OUTLETS WITH GREEN WIRE TO WATER PIPE.
3. INSTALL GALV. STEEL FLAT COVERS.
4. G.F.E. = GOVERNMENT FURNISHED EQUIPMENT
5. G.F.E.I. = GOVERNMENT FURNISHED EQUIPMENT INSTALLED BY GOVERNMENT
6. NOTES MARKED * PERTAIN TO ALL SHEETS

LEGEND



- 96" SLIMLINE 73 WATT 3 TUBE # NT384-S2 SLOTTED WITH TURRET SOCKET.
- FLUORESCENT FIXTURE # NT 246 NB SMOOTHOLMAN.
- CONDUIT EXPOSED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED IN FLOOR.
- FIXTURE # 26 9YF 200 WATT LAMP RED GLOBE AND GUARD. (WARNING LIGHT)
- UNIVERSAL # 5262 DUPLEX RECEPTACLE 3 POLE GROUNDED.
- FRACTIONAL H.P. WTR. FANMOTOR AND SOLENOID OPR VALVE.
- THERMOSTAT MERCURY 10 AMP. 110 VOLT
- G.F.E. FIXTURE GE # 1019C 50 WATT LAMP RED GLOBE.
- FIXTURE 5C9YF 200 WATT LAMP. (WHITE)
- LPB PANEL (B) G.E. CAT. NO. W.P. NLAB416AB
- LPA PANEL (A) 16 CIRCUIT PANEL 20 AMP 1 POLE 120 VOLT 60 AMP 220 VOLT AND 2-30 AMP 220 VOLT 1 PHASE. CIRCUIT IN THIS PANEL FOR WATER HTR., DRYER, & PROCESSING TANK. THIS PANEL TO HAVE A 100 AMP. 3 POLE MAIN (3 PHASE 4 WIRE CIRCUIT)
- FLUORESCENT MERCURY VAPOR - SEE DETAIL SHEET # 16
- 4" OCTAGON BOX & COVER

REMOVE LIGHT FIXTURES A6, A16, A4, AND A10. REMOVE ALL WIRING AND CONDUIT TO (J) BOXES.

NOTE:
1. INSTALL A THERMAL SWITCH FOR MOTOR PROTECTION IF EACH THERMOSTAT.
2. THERMOSTATS INSTALLED 5'-0" FROM FLOOR

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS
HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY F. SCHNEEBERGER
DRAWN BY L.G. SHIELDS NOV. 57
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

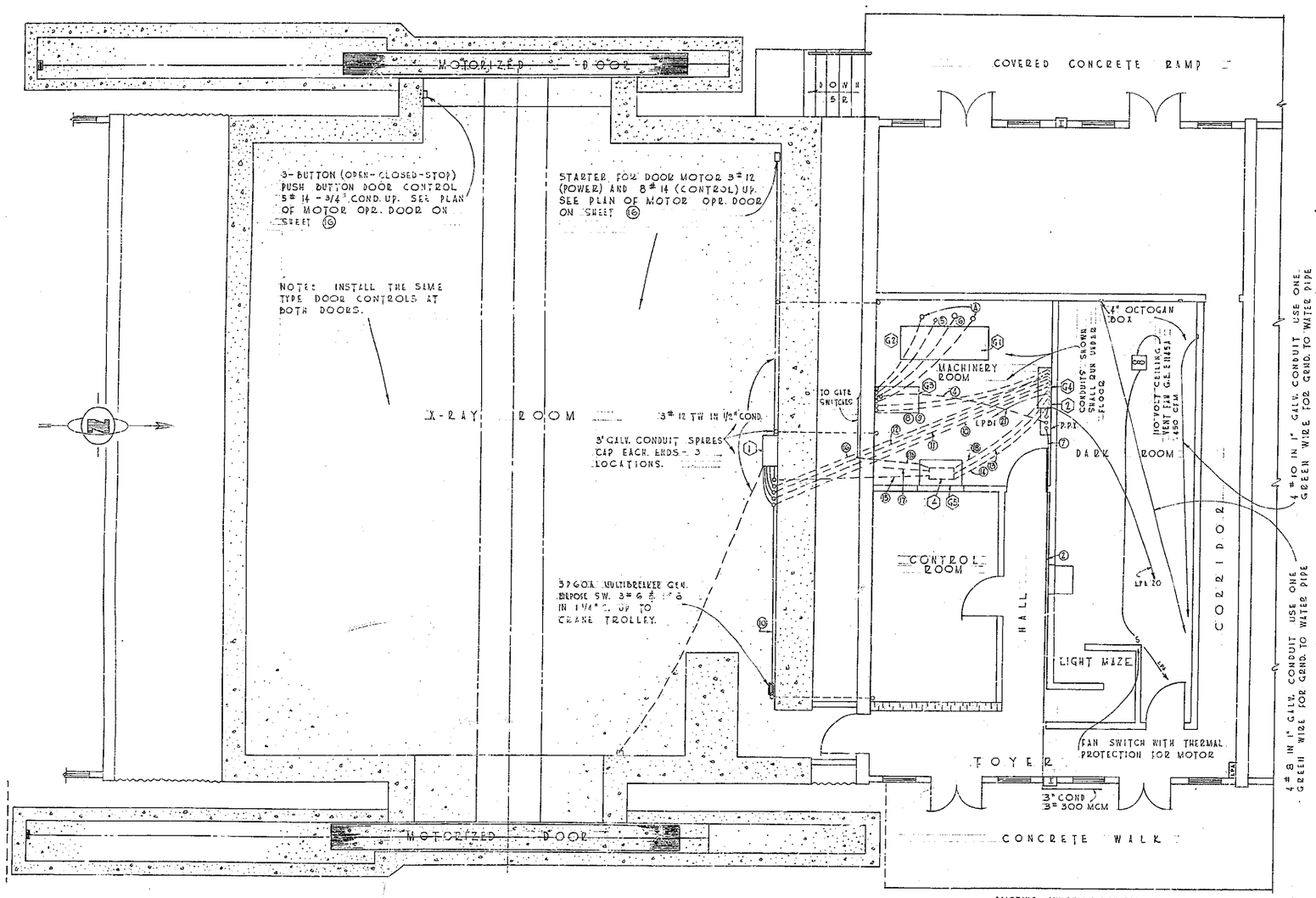
MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
"ELECTRICAL LIGHTING"

SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

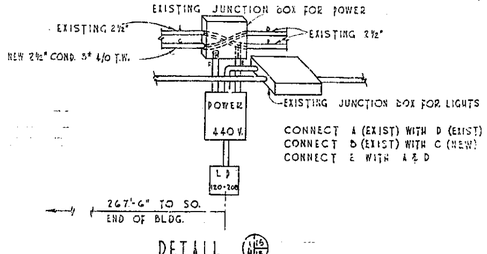
PROJECT NO. HIL-29-8
DRAWING NUMBER 58-3837
SHEET 14 OF 16 — SCALE NOTED

2113-57-E

49-48



FLOOR PLAN
SCALE 1/4" = 1'-0"

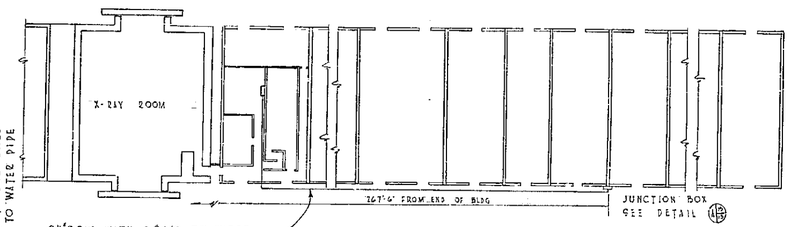


DETAIL 13/15
NO SCALE

CONDUIT AND WIRE SCHEDULE

CONDUIT (Nº)	CONDUIT SIZE	WIRES	FEED TO	CONDUIT (Nº)	CONDUIT SIZE	WIRES	FEED TO	CONDUIT Nº	CONDUIT SIZE	WIRE	FEED TO
1	2" N-M	4#6 RR 2 RV.	440V. SERVICE	11	3/4"	2#14	DC EQUIP. Nº 1	18	1"	3#6	LP-D
2	2"	3#1/0 RR, 1#2 RR GND.	PP-1	12	2"	3#8 22#14	EQUIP. Nº 1	20	3/4"	3#12	EQUIP. Nº 4 & 5
3	2"	2#1/0 RR, 1#2 RR GND.	LP-A	13	3/4"	4#12 2#14	EQUIP. Nº G5	21	1/2"	2#12	EQUIP. Nº 2
4	1 1/2"	3#1 TW, 1#1 TW	M-G CONT. EQUIP. Nº G3	14	2"	7#14, 2#12, 1#10, 1#16*	EQUIP. Nº G5	22	1 1/2"	9#12 3#18	EQUIP. Nº 4
5	1 1/4"	2#8 5#12	GEN. EQUIP. Nº G2	15	1"	1#10*	EQUIP. Nº 1				
6	2 1/2"	3#3/0 5#12	MOTOR EQUIP. Nº G1	16	3/4"	3#12 1#12 GND.	STARTER, DOOR MTR.				
7	1 1/4"	3#4 1#8	EQUIP. Nº G4	17	1"	2#12 2#12	WARNING LIGHTS, DOOR & GATE SW.				
8	1 1/4"	9#12	DC EQUIP. Nº G4	17A	3/4"	4#12	DOOR & GATE SW.				
9	1 1/2"	4#8 3#14	AC EQUIP. Nº G4	17B	3/4"	4#12	DOOR & GATE SW.				
10	1 1/4"	3#6 1#8 GND.	CRANE	18	1/2"	2#12	WARNING LIGHTS				

* 1#16 SHIELDED COAXIAL CABLE RG 58/U



KEY PLAN
SCALE 1" = 20'-0"

X-RAY EQUIP. SCHEDULE

- (G1) GENERATOR OF M-G SET (G.F.E.I.)
- (G2) MOTOR OF M-G SET. 20 HP, 3 PHASE, 60~, SYNCHRONOUS. (G.F.E.I.)
- (G3) M-G SET CONTROL UNIT. 42" x 30" x 85" (G.F.E.I.)
- (G4) AUX. FUSE PANEL. 36 1/4" x 12 1/2" x 54" (G.F.E.I.)
- (G5) X-RAY CONTROL UNIT. APPROX. 32" x 17 1/2" x 80" (G.F.E.I.)
- (1) 18" x 30" x 8" COLUMBIA STEEL CABINET. AC-DC DIVIDED (G.F.E.I.)
- (2) RELAY, 220 V. 60~ COIL, NEMA TYPE-1 ENCLOSURE, 2-N.O. 220 V. 10-A CONT. CONTACTS, I.C. 20A IND. LOAD AT 220 V. (G.F.E.I.)
- (3) 10" DIA. SINGLE STROKE GONG, 120 V 60~ (G.F.E.I.)
- (4) 18" x 18" x 6" DEEP JUNC. BOX IN FLOOR (G.F.E.I.)

NOTES

1. CONTRACTOR SHALL BREAK OUT & PATCH FLOOR IN EXISTING STRUCTURE FOR CONDUITS.
2. CONTRACTOR SHALL FURNISH AND INSTALL 1PST 220 V. SW. IN WP ENCLOSURE AT EACH GATE. SW. SHALL BE CLOSED ONLY WHEN GATE IS IN THE FULLY CLOSED POSITION.
3. DOOR SWITCHES SHALL BE CLOSED ONLY WHEN DOOR IS IN THE CLOSED POSITION.
4. DUPLEX RECEPTACLES IN X-RAY ROOM SHALL BE MOUNTED 42" ABOVE FL.
5. CONTRACTOR SHALL PULL ALL WIRES INDICATED IN CONDUITS TO EQUIPMENT Nºs G1, G2, G3, G4, G5, 1 & 4 LEAVING 6'-0" FREE WIRE. CONNECTIONS TO EQUIPMENT TO BE MADE BY OTHERS.
6. CONDUIT FITTINGS SHALL NOT BE RECESSED IN 36", 24" OR 12" WALLS NOR SHALL CONDUITS PASS THRU THESE WALLS UNLESS BELOW THE FLOOR LINE 18" FOR THE 48" WALL AND 12" FOR THE 24" AND EXISTING 12" WALLS.
7. DUPLEX RECEPTACLES IN DARK ROOM SHALL BE MOUNTED 12" ABOVE TABLES.
8. ALL WIRE TO BE STD. STRANDED COPPER.

LEGEND

- CONDUIT CONCEALED IN FLOOR
- CONDUIT CONCEALED IN WALL OR CEILING.
- EXPOSED CONDUIT ON WALL OR CEILING.
- (FM) FRACTIONAL HP. HTR. FAN MOTOR AND SOLENOID OPR. VALVE
- (T) THERMOSTAT CONTROLLING VALVE AND 1PST. SW. CONTROLLING FAN MOTORS.

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY F. BERNSTEIN
DRAWN BY L.G. SHIELDS
TRACED BY NOV. 1957
CHECKED BY DATE

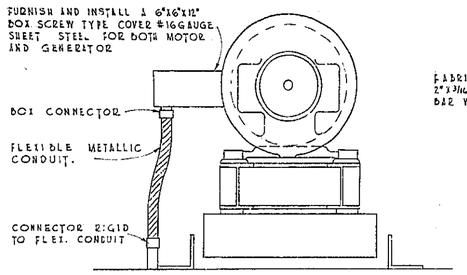
MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
-ELECTRICAL POWER-

APPROVED BY DATE
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED DATE
APPROVED DATE
APPROVED DATE

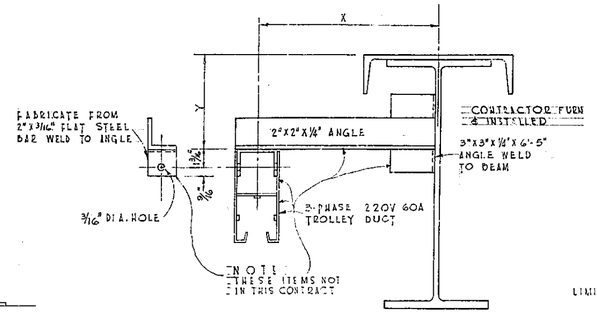
PROJECT NO. HIL-29-8
DRAWING NUMBER 58-3837
SHEET 15 OF 15 SCALE NOTED

2113-57-E

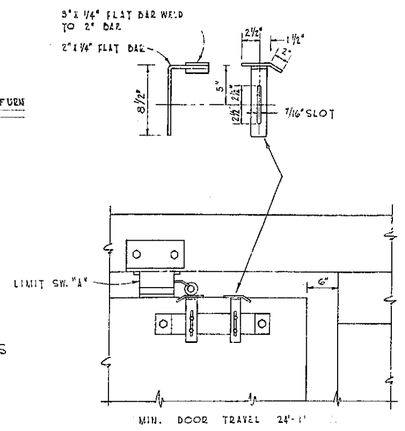
49-49



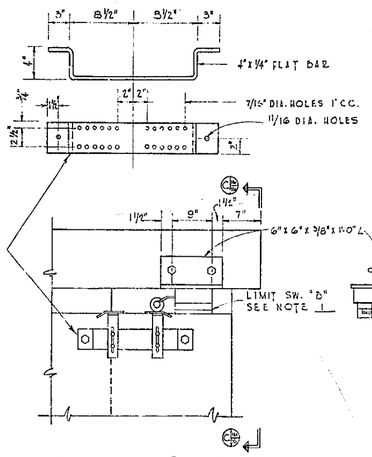
TYPICAL CONNECTION TO MOTOR & GEN.
NO SCALE



TYPICAL DETAIL
MOUNTING OF CRANE TROLLEY BUS
SEE NOTE 2
NO SCALE

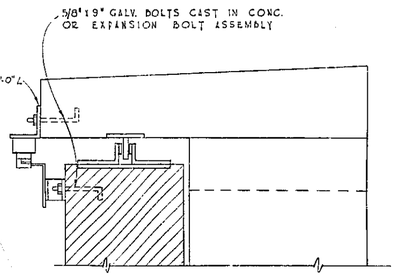


DETAIL
DOOR FULLY OPEN
SCALE

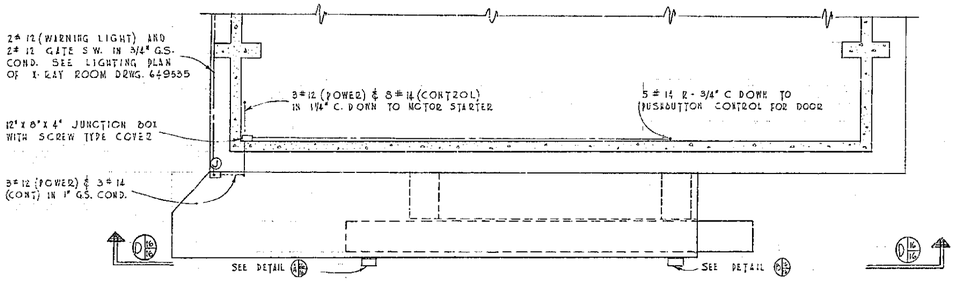


DETAIL
DOOR FULLY CLOSED

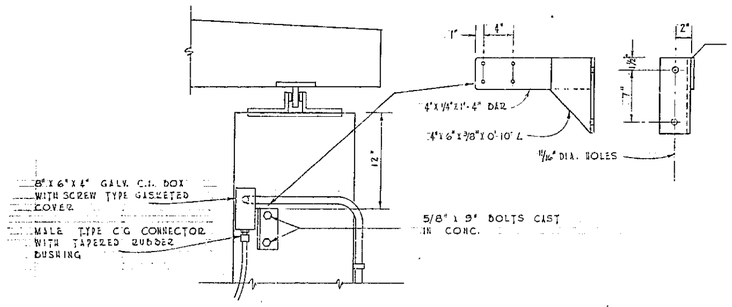
LIMIT SW. "A" AND "B" SHALL BE LEVER TYPE WITH STEEL ROLLER AND 1 N.O. AND 1-N.C. CONTACTS RATED TO CARRY 5A CONTINUOUSLY AND INTERRUPT 10A AT 220 V. W/ G.E. ENCLOSURE.



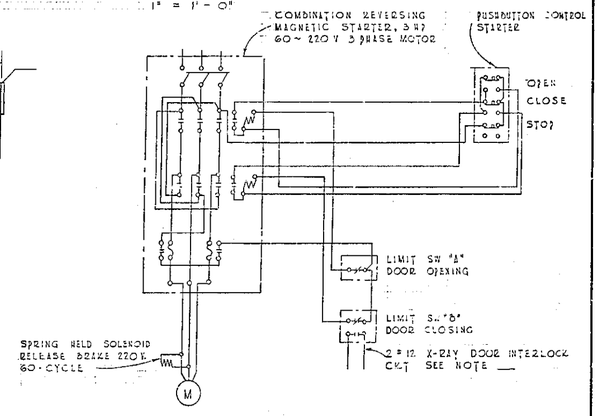
ELEVATION
SCALE 1" = 1'-0"



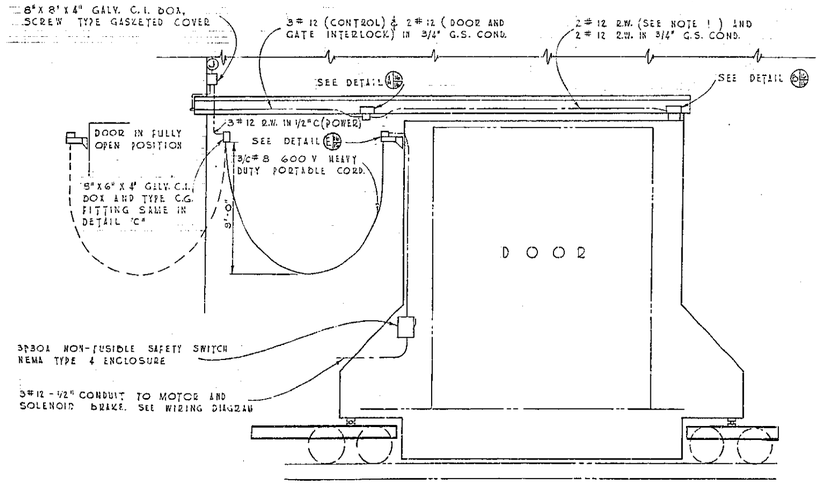
PLAN - MOTOR OPERATED DOOR
SCALE 1/4" = 1'-0"



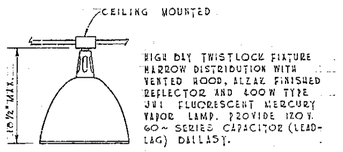
DETAIL
SCALE 1" = 1'-0"



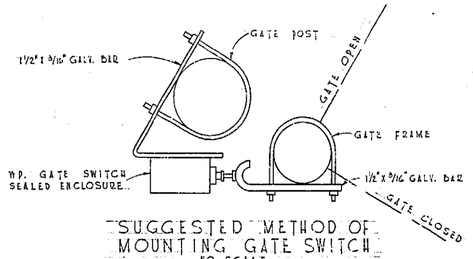
WIRING DIAGRAM-DOOR MOTOR



ELEVATION
SCALE 1/4" = 1'-0"



DETAIL-HIGH BAY FIXTURE
NO SCALE



SUGGESTED METHOD OF MOUNTING GATE SWITCH
NO SCALE

NOTES

1. THE DOOR SWITCH AND THE N.O. CONTACT OF LIMIT SWITCH "B" OF DOORS TO X-RAY ROOM AND THE FOUR GATE SWITCHES N.O. CONTACTS, SHALL BE CONNECTED IN SERIES. (EACH SERIES CIRCUIT FROM EACH DOOR SWITCH AND THE SERIES CIRCUIT FROM THE GATE SWITCHES, WILL HAVE INDIVIDUAL CIRCUITS COMING FROM JUNCTION BOX 4)
2. ALL EQUIPMENT MUST BE GROUNDED TO WATER PIPE.

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY F. HENDRIFFER
DRAWN BY L.G. SHIELDS
TRACED BY NOV. '57
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING No 2113 FOR X-RAY FACILITIES
ELECTRICAL DETAILS

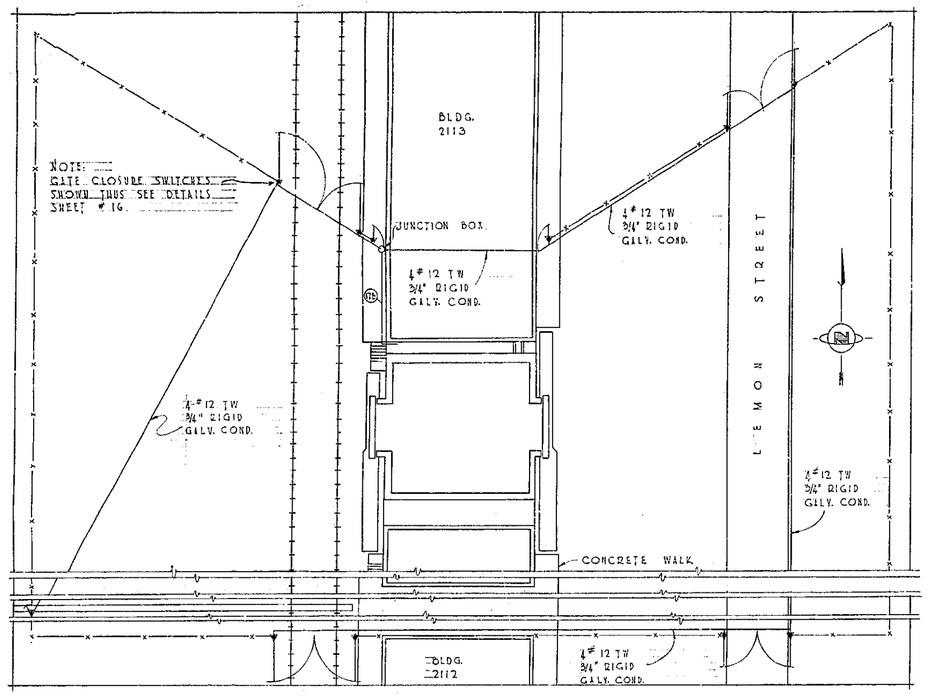
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

PROJECT NO. H1L-29-8
DRAWING NUMBER 58-3837
SHEET 10 OF 13 SCALE NOTED

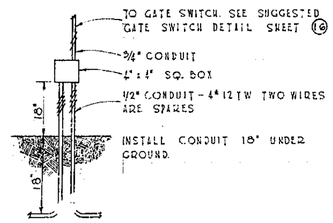
49-35

234

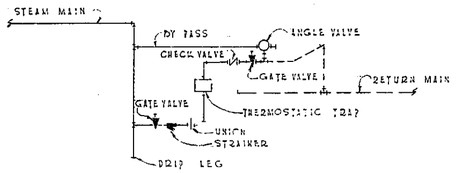
2113-57-E



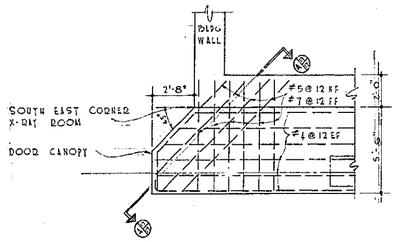
PLAN OF X-RAY GATE SWITCHES
SCALE 1" = 20'-0"



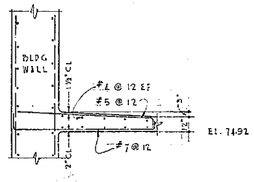
GATE SWITCH RISER
NO SCALE



DETAIL D 12/17 DRIP ON END OF STEAM MAIN
NO SCALE



REIN DETAIL S. E. CORNER DOOR CANOPY
SCALE 1/4" = 1'-0"



SECTION 1/12
SCALE 1/4" = 1'-0"

POWER PANEL X

3 P 200 A MAIN BREAKER 440-VOLT 3 PHASE 3 WIRE * SURFACE MOUNTED

FEED TO	CONDUIT SIZE	CONDUIT Nº	WIRE SIZE	BRANCH BREAKER AMP	POLE	Nº	Nº	POLE	AMP	WIRE SIZE	CONDUIT Nº	CONDUIT SIZE	FEED TO
EQUIP. Nº G 3	1 1/2"	4	3 # 2 1 # 4	90	3	1	2	3	90	3 # 6 1 # 8	10	1 1/4"	CRANE TROLLY
EQUIP. Nº G 4	1 1/4"	7	3 # 4 1 # 8	70	3	3	4	3	20	4 # 12	16	3/4"	DOOR MOTOR
SPARE				20	3	5	6	3	20				SPARE
SPARE				20	3	7	8	3	20				SPARE

LIGHTING PANEL "A"

3 P 100 A MAIN BREAKER 120-208-VOLT 3-PHASE 4-WIRE SURFACE MOUNTED

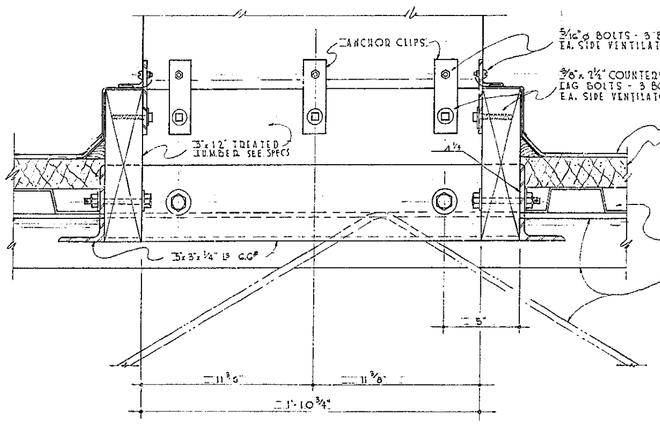
EXHAUST FAN	1/2"	A1	3 # 12	20	1	1	2	1	20	2 # 12	A2	1/2"	DARKROOM LIGHTS
SPARE	1/2"	A3		20		3	4	1	20	2 # 12	A4	1/2"	DARKROOM OUTLETS
DARKROOM OUTLETS	1/2"	A5	2 # 12	20	1	5	6	1	20	2 # 12	A6	1/2"	HALL LIGHTS
CONTROL RM. LTS.	1/2"	A7	2 # 12	20	1	7	8	1	20	2 # 12	A8	1/2"	CONTROL RM. OUTLETS
MACHINE RM. LTS.	1/2"	A9	2 # 12	20	1	9	10	1	20	2 # 12	A10	1/2"	MACHINE RM. OUTLETS
TO PANEL ??X	1"	A12	2 # 12	20	1	12	13	1	20	2 # 12	A13	1"	TO PANEL ??X
TO PANEL ??X	1"	A14	2 # 12	20	1	14	15	1	20	2 # 12	A15	1"	TO PANEL ??X
EQUIP.	1"	A16	3 # 10	30	1	16	17	1	30	3 # 10	A17	1"	EQUIP.
SPARE			3 # 8	60	1	18	19	1	30				SPARE
SPARE				20	1	20	21	1	20				SPARE

LIGHTING PANEL "B"

50 A MAINS 120-208 VOLTS 3-PHASE 4-WIRE SURFACE MOUNTED

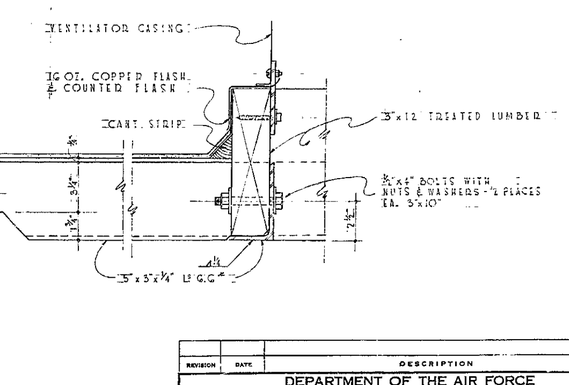
HTR. FAN MOTORS	1/2"	B1	2 # 12	20	1	1	2	1	20	3 # 12	B2	1/2"	LTS. X-RAY RM.
LIGHTS	1/2"	B3	2 # 12	20	1	3	4	1	20				LTS. X-RAY RM.
LIGHTS	1/2"	B5	2 # 12	20	1	5	6	1	20	2 # 12	B6	1/2"	LTS. X-RAY RM.
OUTLETS		B7		20	1	7	8	1	20		B8		OUTLETS
OUTLETS		B9		20	1	9	10	1	20		B8		OUTLETS
HEATING		B11		20	1	11	12	1	20		B10		HEATING
VENT FAN		B13		20	3	13	14	1	20		B12		HEATING
SPARE		B15		20	1	15	16	1	20		B14		SPARE

* PROVIDE A GROUND BUS IN PP-X



SECTION B 13/17
SCALE 3" = 1'-0"

NOTE:
CUT 3" x 12" ON BEVEL APPROX. 1/2" PER 1'-0" SO VENT. FAN WILL SET IN A LEVEL POSITION



SECTION C 14/17
SCALE 3" = 1'-0"

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY G.Q. JONES
DRAWN BY SHIELDS-McGAVIN 14 DEC. 1957
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING Nº 2113 FOR X-RAY FACILITIES
ELECT. DETAILS GATE SWITCHES & MISC.

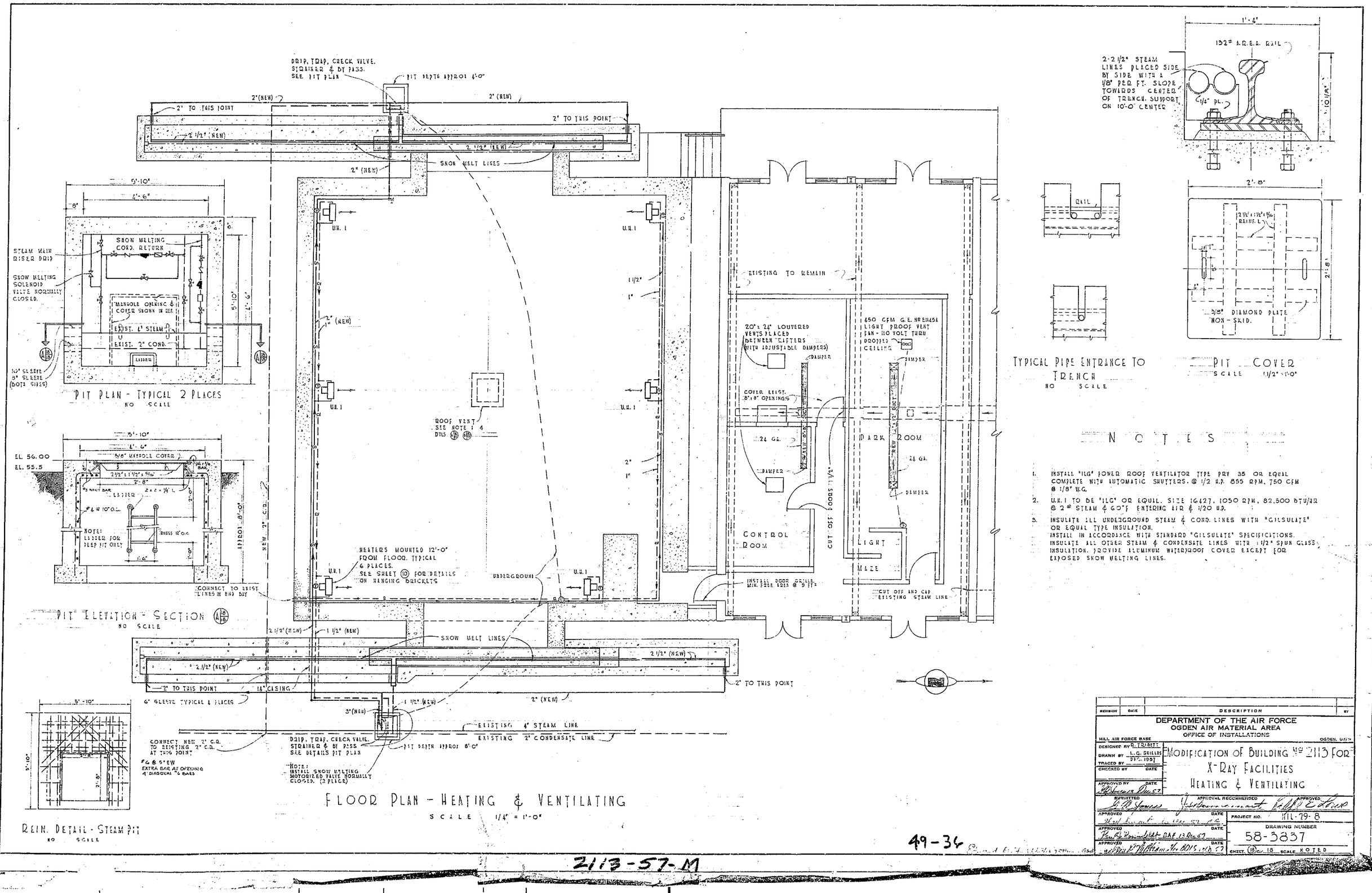
SUBMITTED — APPROVAL RECOMMENDED — APPROVED
APPROVED — DATE
APPROVED — DATE
APPROVED — DATE

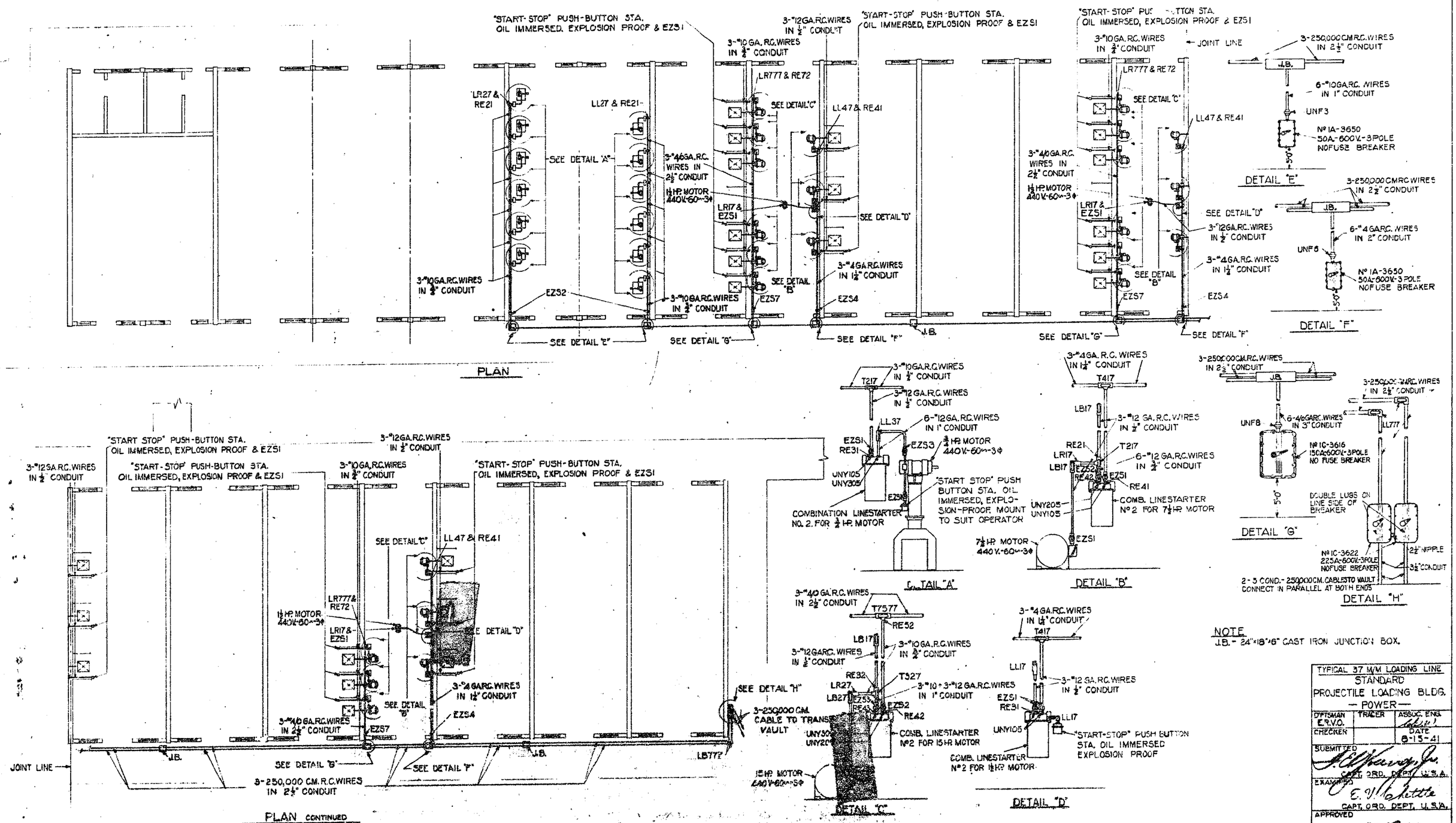
PROJECT NO. F HIL 29-8
DRAWING NUMBER 58-3837
SHEET 17 OF 18 SCALE NOTED

235

2113-57-E

49-50


DRIP, TRAP, CHECK VALVE, STRAINER & BY PASS. SEE PIT PLAN
PIT DEPTH APPROX 4'-0"
2" (NEW)
2" TO THIS POINT
2 1/2" (NEW)
SNOW MELT LINES
STEAM MAIN RISER DRIP
SNOW MELTING SOLENOID VALVE NORMALLY CLOSED.
SNOW MELTING COND. RETURN
MANHOLE OPENING & COVER SHOWN IN DET.
EXIST. 4" STEAM
EXIST. 2" COND.
LADDER
10" SLEEVE 8" SLEEVE (BOTH SIDES)
PIT PLAN - TYPICAL 2 PLACES
NO SCALE
EL. 56.00
EL. 55.5
3/8" MANHOLE COVER
LADDER
NOTE: LADDER FOR DEEP PIT ONLY
CONNECT TO EXIST. LINES IN END BAY
PIT ELEVATION - SECTION
NO SCALE
U.H. 1
ROOF VENT SEE NOTE 1 & DTLS
HEATERS MOUNTED 12'-0" FROM FLOOR. TYPICAL 6 PLACES. SEE SHEET 10 FOR DETAILS ON HANGING BRACKETS
UNDERGROUND
EXISTING TO REMAIN
20" x 24" LOUVERED VENTS PLACED BETWEEN RAFTERS WITH ADJUSTABLE DAMPERS
450 CFM G.E. NR 81458 LIGHT PROOF VENT FAN - 110 VOLT THRU PROPOSED CEILING
DAMPER
COVER EXIST. 8" x 8" OPENINGS
24 GA.
DARK ROOM
CONTROL ROOM
CUT OFF DOORS 11 1/2"
LIGHT MAZE
INSTALL DOOR GRILLE MIN. FREE AREA @ 9 FT²
CUT OFF AND CAP EXISTING STEAM LINE
SNOW MELT LINES
14" CASING
6" SLEEVE TYPICAL 4 PLACES
3" (NEW)
EXISTING 4" STEAM LINE
EXISTING 2" CONDENSATE LINE
CONNECT NEW 2" C.O. TO EXISTING 2" C.O. AT THIS POINT
DRIP, TRAP, CHECK VALVE, STRAINER & BY PASS SEE DETAILS PIT PLAN
PIT DEPTH APPROX 8'-0"
NOTE: INSTALL SNOW MELTING MOTORIZED VALVE NORMALLY CLOSED. (2 PLACE)
FLOOR PLAN - HEATING & VENTILATING
SCALE 1/4" = 1'-0"
REIN. DETAIL - STEAM PIT
NO SCALE
132# A.R.E.A. RAIL
2-2 1/2" STEAM LINES PLACED SIDE BY SIDE WITH A 1/8" PER FT. SLOPE TOWARDS CENTER OF TRENCH. SUPPORT ON 10'-0" CENTER
1/4" PL.
RAIL
TYPICAL PIPE ENTRANCE TO TRENCH
NO SCALE
3/8" DIAMOND PLATE NON-SKID.
PIT COVER
SCALE 1 1/2" = 1'-0"
NOTES
1. INSTALL "ILG" POWER ROOF VENTILATOR TYPE PRV 35 OR EQUAL COMPLETE WITH AUTOMATIC SHUTTERS. @ 1/2 H.P. 855 RPM. 750 CFM @ 1/8" W.G.
2. U.H. 1 TO BE "ILG" OR EQUAL. SIZE 1G427. 1050 RPM. 82,500 BTU/HR @ 2# STEAM & 60°F ENTERING AIR & 1/20 H.P.
3. INSULATE ALL UNDERGROUND STEAM & COND. LINES WITH "GILSULATE" OR EQUAL TYPE INSULATION. INSTALL IN ACCORDANCE WITH STANDARD "GILSULATE" SPECIFICATIONS. INSULATE ALL OTHER STEAM & CONDENSATE LINES WITH 1 1/2" SPUN GLASS INSULATION. PROVIDE ALUMINUM WATERPROOF COVER EXCEPT FOR EXPOSED SNOW MELTING LINES.
REVISION | DATE | DESCRIPTION | BY
DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS
HILL AIR FORCE BASE
OGDEN, UTAH
DESIGNED BY
DRAWN BY L.G. GRIELDS DEC. 1957
TRACED BY
CHECKED BY DATE
APPROVED BY DATE
MODIFICATION OF BUILDING No 2113 FOR X-RAY FACILITIES
HEATING & VENTILATING
SUBMITTED
APPROVAL RECOMMENDED
APPROVED
PROJECT NO. HIL-79-8
DRAWING NUMBER
58-3837
SHEET (18) OF 18 SCALE NOTED
49-36
236
2113-57-M

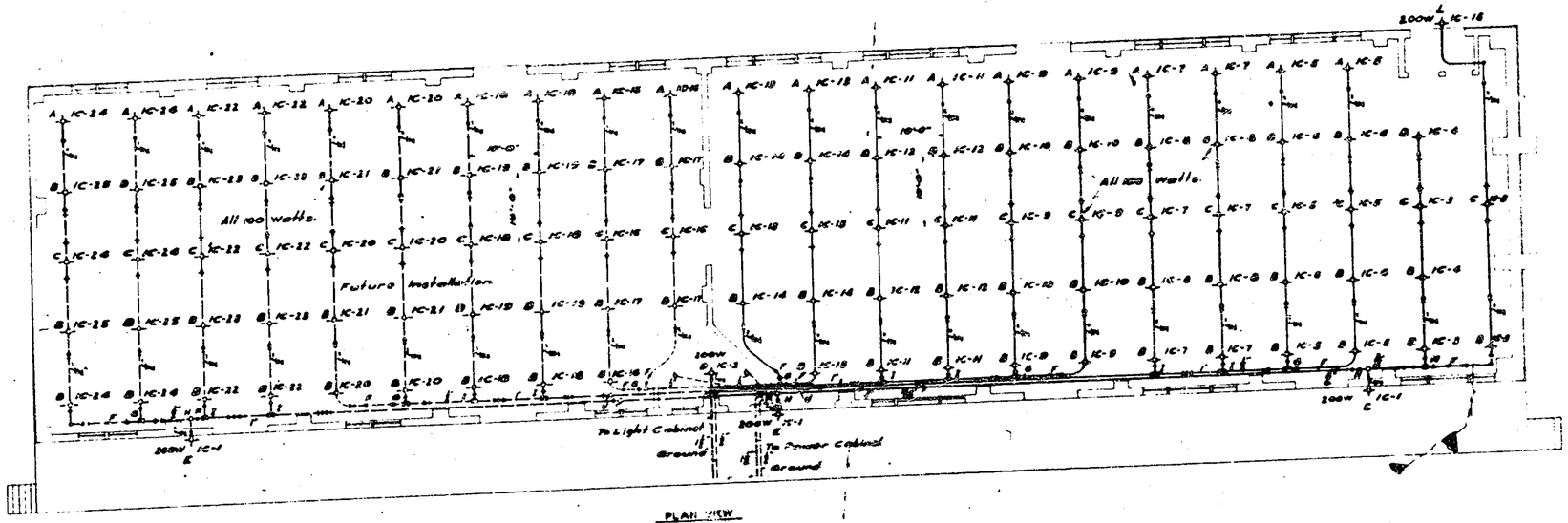


NOTE
J.B. - 24"×18"×6" CAST IRON JUNCTION BOX.

TYPICAL 37 M/M LOADING LINE STANDARD PROJECTILE LOADING BLDG. — POWER —	
DFTSMAN E.R.V.O. / TRACER / ASSOC. ENG.	
CHECKER	DATE 8-15-41
SUBMITTED	J. C. Kearney Jr. CAPT. ORD. DEPT. U.S.A.
EXAMINED	E. V. Lettle CAPT. ORD. DEPT. U.S.A.
APPROVED	J. Wortham Chandler LT. COL. ORD. DEPT. U.S.A.
SCALE ⅛"=1'-0"	
11-D-52	OGDEN ORDNANCE DEPOT

863

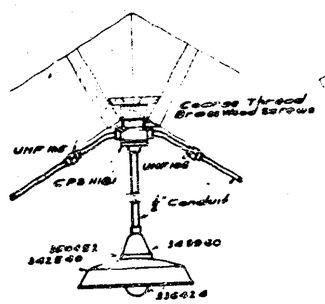
2113



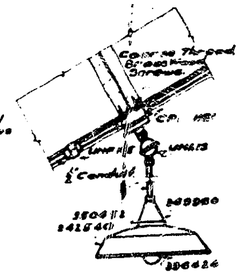
PLAN VIEW
Scale 1/8" = 1'-0"

PRESENT INSTALLATION			
SYM	NAME	TYPE	REQD
A	Conduit	CPS 1101 "Thread	10
B	-	CPS 1103 "	38
C	-	CPS 1101 "	18
D	-	CPS 1101 "	1
E	-	QUAB 16 No Cou	2
G	-	CPS 1104 "Thread	8
H	-	CPS 2104 "	2
I	-	CPS 2105 "	4
V	-	CPS 2106 "	2
L	-	QUAB 16 No Cou	1
A	Ceiling Flns	348576	10
B	- -	348576	38
C	- -	348576	12
D	- -	348576	1
E	Bracket -	349 [illegible]	2
L	- -	349 [illegible]	1
A	Connectors	UNA-16	10
B	-	UNA 16	38
D	Cond Seal	EYS 1	1
F	- -	EZ 51	5
G	- -	EYS 17	2
I	- -	EYS 17	4
K	- -	EZS 26	1
B	Plugs	PL 01	1
E	-	PL 01	2
L	-	PL 01	1
A	Socket Em	110, 200-100 W	10
B	- -	110, 200-100 W	38
C	- -	110, 200-100 W	10
H	Reducer	RE 21	2
I	-	RE 31	4
M	-	RE 31	2
N	Conduit	CPS 2105 "Thread	1
N	Cond Seal	EYS 17	1
B	Union	UNF 105	8
C	-	UNF 105	24
D	-	UNF 105	1
G	-	UNF 105	4
V	-	UNF 305	2
M	-	UNF 105	1
M	-	UNF 305	1
	Elbow	1/2" 90° 40 Rod	8
	-	1/2" 90° 45° "	1
	-	1" 90° 5 15" "	4
	Panelboard		2

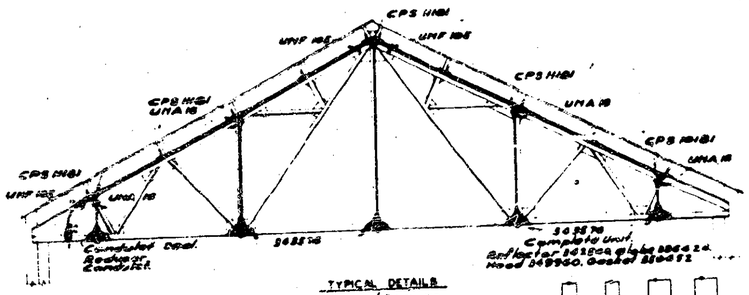
FUTURE INSTALLATION			
SYM	NAME	TYPE	REQD
A	Conduit	CPS 1101 "Thread	10
B	-	CPS 1101 "	29
C	-	CPS 1101 "	19
E	-	QUAB 16 No Cou	1
G	-	CPS 1105 "Thread	8
H	-	CPS 2105 "	1
I	-	CPS 2105 "	4
V	-	CPS 2106 "	2
A	Ceiling Flns	348576	10
B	- -	348576	29
C	- -	348576	19
E	Bracket -	349 [illegible]	1
A	Connectors	UNA 16	10
B	-	UNA 16	29
F	Cond Seal	EZ 51	4
G	- -	EYS 17	2
I	- -	EYS 17	4
K	- -	EZS 26	1
E	Plugs	PL 01	1
A	Socket Em	110, 200-100 W	10
B	- -	110, 200-100 W	29
C	- -	110, 200-100 W	19
H	Reducer	RE 21	2
I	-	RE 31	4
I	-	RE 32	1
B	Union	UNF 105	7
C	-	UNF 105	20
G	-	UNF 105	6
V	-	UNF 305	2
	Elbow	1/2" 90° 40 Rod	2
	-	1" 90° 5 15" "	2



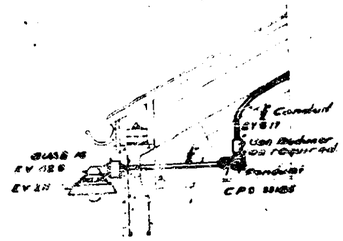
TYPICAL DETAIL A
Scale 1/4" = 1'-0"



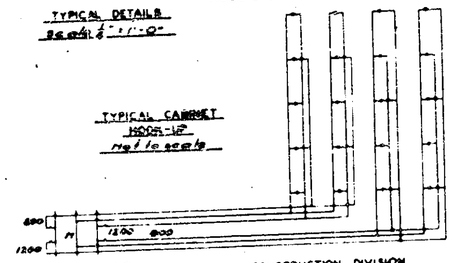
TYPICAL DETAIL B
Scale 1/4" = 1'-0"



TYPICAL DETAIL B
Scale 1/4" = 1'-0"



DETAIL AT WEST WALL
Scale 1/4" = 1'-0"



TYPICAL CABINET
INDEX-12
not to scale

NOTES:

All Conductors to be No 12 Wire, unless otherwise noted.
All conduit secured to purling or sheathing with straps and Coarse Thread Brass Wood Screws.
Outlet Conduits secured to Concrete with Expansion Plugs.
Inside Conduits secured to purling with Coarse Thread Brass Wood Screws or to Concrete with Expansion Plugs as indicated.
Unless otherwise noted, fixtures special.
Panelboards are 6'-0" top of floor to bottom of Box.
Underground Entrance conduit to bottom of Cabinets.
Private opening in Lighting Cabinet for carrier type Meter Connections.
1C-1, 1C-2 etc. denotes circuit numbers.

APPROVED FOR THE CHIEF OF ORD
CARROLL H. DEITRICK
CAPTAIN, ORD DEPT
DATE March 4, 1938

SCALE
AS NOTED
REVISIONS

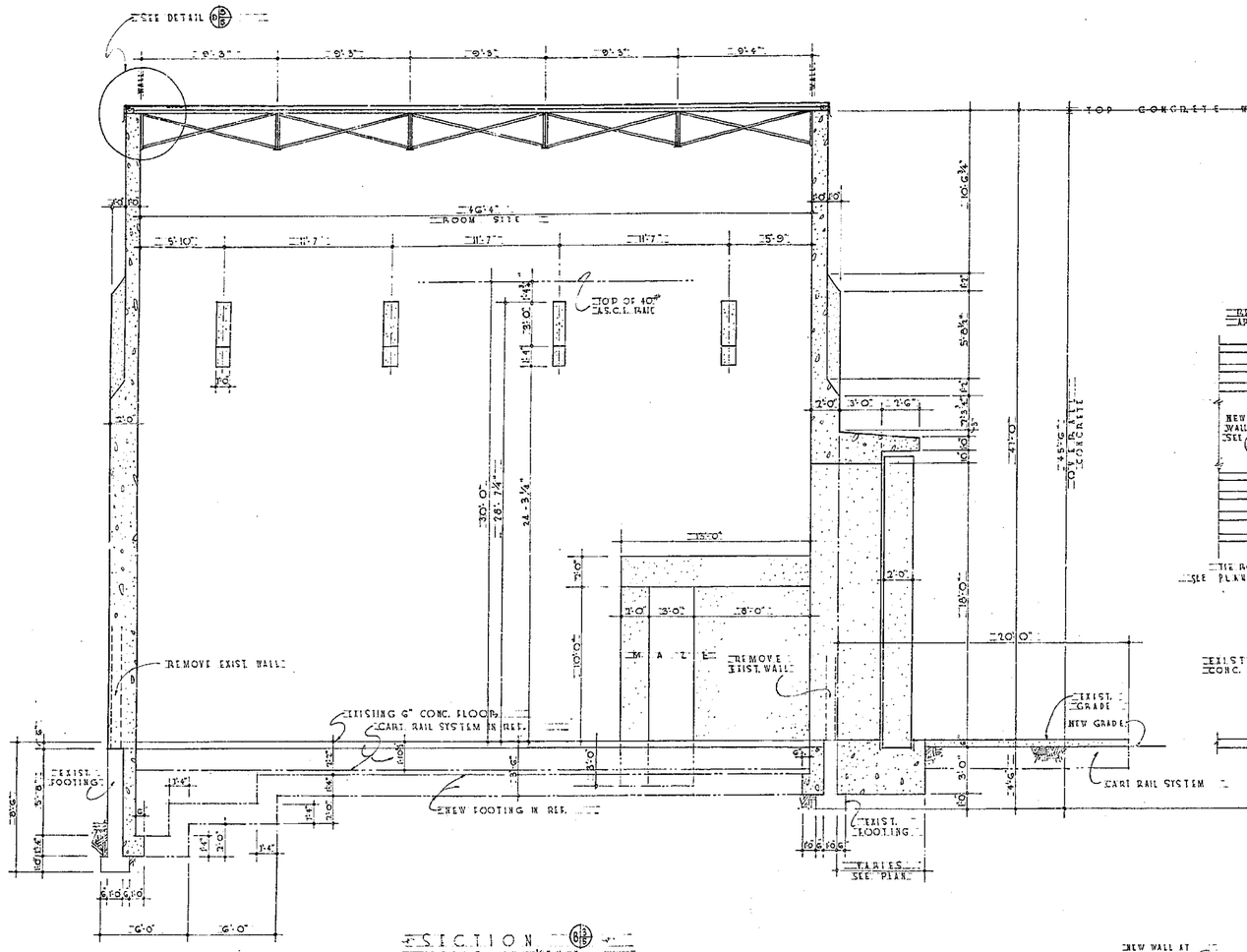
CONSTRUCTION DIVISION
OFFICE OF THE CONSTRUCTING QUARTERMASTER

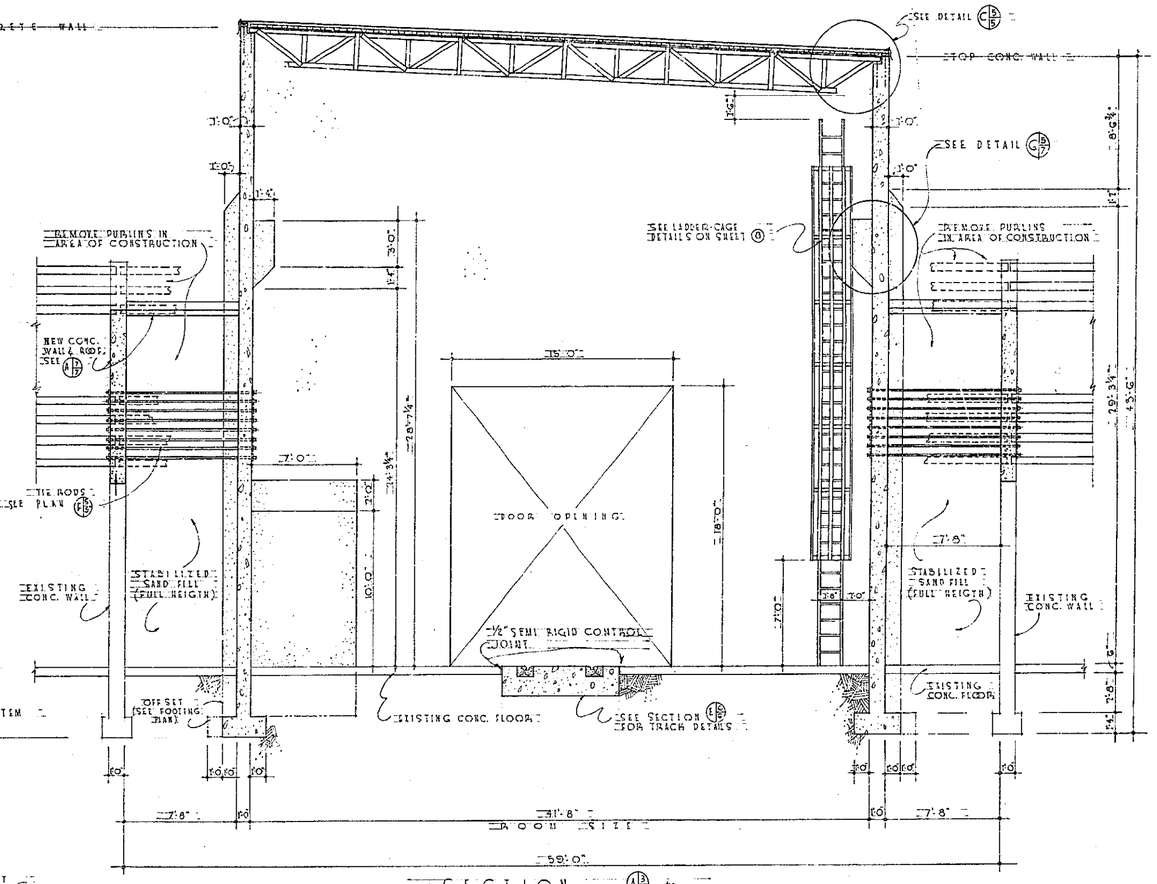
OGDEN ORDNANCE DEPOT, UTAH

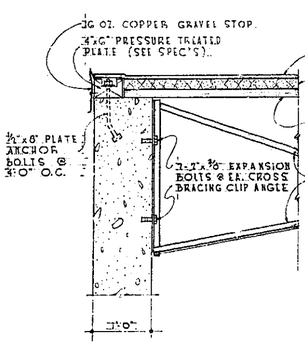
INERT AMMUNITION COMPONENT BUILDING

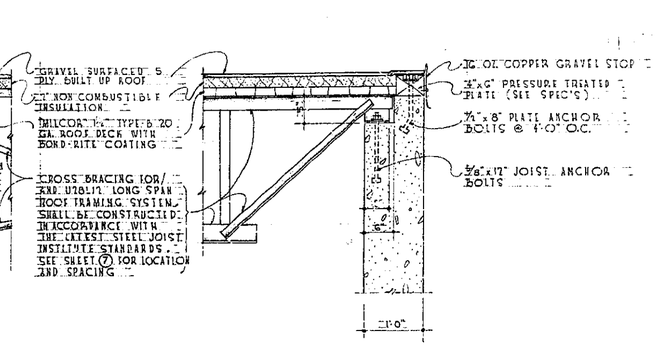
ELECTRICAL PLAN

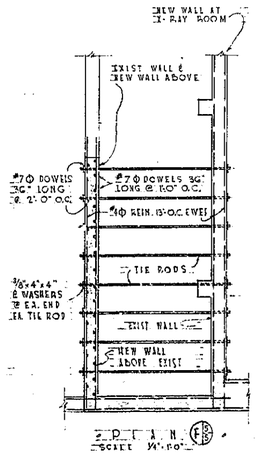
DRAWN EDT
CHECKED
APPROVED BY
TRACED EDT
E M GEORGE
MAJOR, QMC
CONSTRUCTING Q M
DATE March 4 1938
PLAN NUMBER 652-325

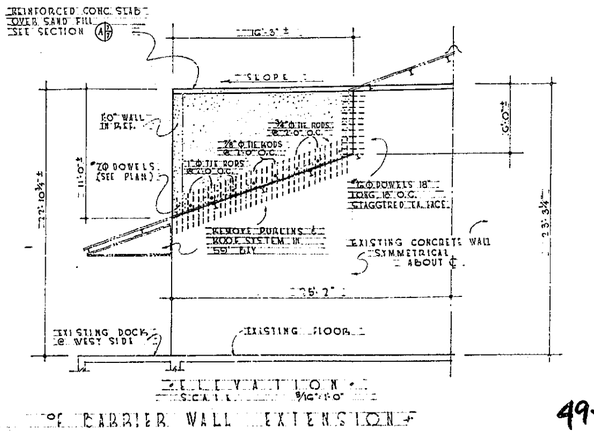












DETAIL OF BARRIER WALL EXTENSION

49-84

REVISION	DATE	DESCRIPTION	BY
1	4-11-58	GENERAL REVISIONS	F.O.J.

DEPARTMENT OF THE AIR FORCE
OGDEN AIR MATERIAL AREA
OFFICE OF INSTALLATIONS

HILL AIR FORCE BASE — OGDEN, UTAH

DESIGNED BY C.O. JONES
DRAWN BY Thos. McGavin 28 Feb 1958
TRACED BY
CHECKED BY — DATE
APPROVED BY — DATE

MODIFICATION OF BUILDING No. 2113 FOR X-RAY FACILITIES
SECTIONS THRU BUILDING & DETAILS

SUBMITTED — APPROVAL RECOMMENDED — APPROVED

APPROVED — DATE 18 Feb 58
APPROVED — DATE 18 Feb 58
APPROVED — DATE 18 Feb 58

PROJECT NO.
DRAWING NUMBER 58-3866
SHEET 9 OF 11 SCALE AS NOTED

237

2113-58-A