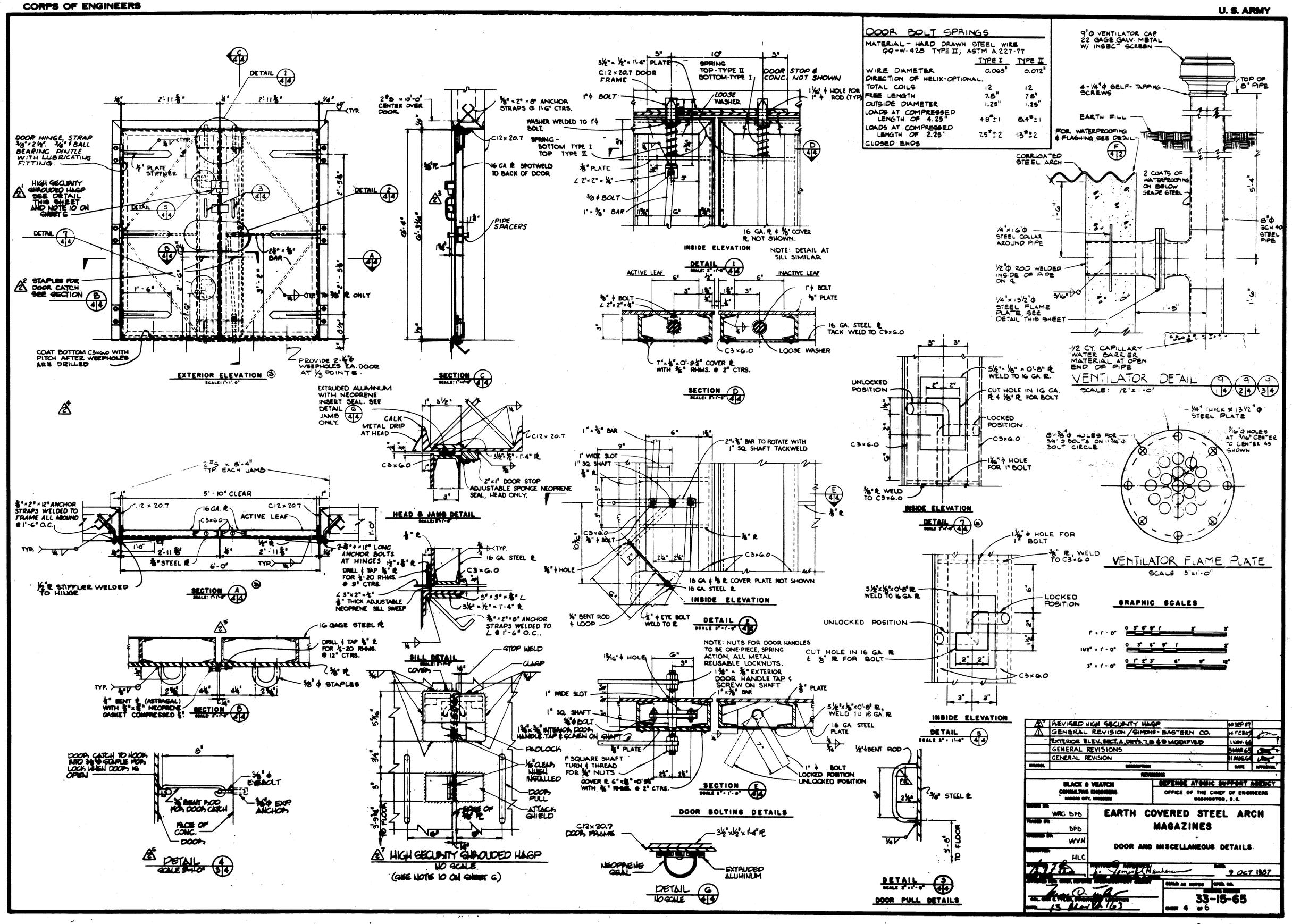
DOOR BOLT SPRINGS
MATERIAL - HARD DRAWN STEEL WIRE QQ-W-428 TYPE II, ASTM A 227-77
TYPE I TYPE II
WIRE DIAMETER 0.063" 0.072"
DIRECTION OF HELIX-OPTIONAL.
TOTAL COILS 12 12
FREE LENGTH 7.8" 7.8"
OUTSIDE DIAMETER 1.25" 1.25"
LOADS AT COMPRESSED LENGTH OF 4.25" 4.8"±1 8.4"±1
LOADS AT COMPRESSED LENGTH OF 2.25" 7.5"±2 13"±2
CLOSED ENDS
EXTERIOR ELEVATION
INSIDE ELEVATION
NOTE: DETAIL AT SILL SIMILAR.
SECTION
HEAD & JAMB DETAIL
SILL DETAIL
HIGH SECURITY GIRDLED HASP
NO SCALE.
(SEE NOTE 10 ON SHEET 6)
DOOR BOLTING DETAILS
DOOR PULL DETAILS
VENTILATOR DETAIL
SCALE: 1/2" = 1'-0"
VENTILATOR FLAME PLATE
SCALE 3" = 1'-0"
GRAPHIC SCALES
DOOR HINGE, STRAP 3/8" x 2 1/2". 3/4" ϕ BALL BEARING PINTLE WITH LUBRICATING FITTING.
HIGH SECURITY GIRDLED HASP SEE DETAIL THIS SHEET AND NOTE 10 ON SHEET 6
STAPLES FOR DOOR CATCH SEE SECTION B 4/4
COAT BOTTOM C3x6.0 WITH PITCH AFTER WEEPHOLES ARE DRILLED
PROVIDE 2-1/2" ϕ WEEPHOLES EA. DOOR AT 1/3 POINTS.
2#5 x 8'-4" TYP EACH JAMB
5'-10" CLEAR
3/8" x 2" x 12" ANCHOR STRAPS WELDED TO FRAME ALL AROUND @ 1'-6" O.C.
1/2" R STIFFLER WELDED TO HINGE
2-3/8" x 12" LONG ANCHOR BOLTS AT HINGES
DRILL & TAP 3/8" R FOR 1/4-20 RHMS. @ 9" CTRS.
3/8" THICK ADJUSTABLE NEOPRENE SILL SWEEP
3/8" x 2" x 8" ANCHOR STRAPS WELDED TO L @ 1'-6" O.C.
16 GAUGE STEEL R
DRILL & TAP 3/8" R FOR 1/4-20 RHMS. @ 12" CTRS.
3/8" ϕ STAPLES
1/4" BENT R (ASTRAGAL) WITH 3/8" x 3/8" NEOPRENE GASKET COMPRESSED 1/8"
DOOR CATCH TO HOOK INTO 3/4" ϕ GAMPLE PIN LOCK WHEN DOOR IS OPEN
3/4" ϕ EYEBOLT
3/4" BENT ROD FOR DOOR CATCH
3/4" ϕ EXP. ANCHOR
FACE OF CONC.
DOOR
GTOP WELD
CLASP
PADLOCK
1/16" CLEAR WHEN INSTALLED
DOOR PULL
ATTACK SHIELD
EDGE OF 3/8" R
NOTE: NUTS FOR DOOR HANDLES TO BE ONE-PIECE, SPRING ACTION, ALL METAL REUSABLE LOCKNUTS.
1 3/8" x 3/8" EXTERIOR DOOR HANDLE TAP & SCREW ON SHAFT
1" x 3/8" BAR
3/8" PLATE
1" SQUARE SHAFT TURN & THREAD FOR 3/8" NUTS
COVER R 6" x 3/8" x 0'-9 1/2" WITH 3/8" RHMS. @ 2" CTRS.
1" ϕ BOLT LOCKED POSITION UNLOCKED POSITION
1/2" ϕ BENT ROD
3/8" STEEL R
C12x20.7 DOOR FRAME
3 1/2" x 1/2" x 1'-4" R
NEOPRENE SEAL
EXTRUDED ALUMINUM
9" ϕ VENTILATOR CAP 22 GAGE GALV. METAL W/ INSECT SCREEN
4-1/4" ϕ SELF-TAPPING SCREWS
TOP OF 8" PIPE
EARTH FILL
FOR WATERPROOFING & FLASHING SEE DETAIL F 4/2
CORRUGATED STEEL ARCH
2 COATS OF WATERPROOFING ON BELOW GRADE STEEL
1/4" x 16" ϕ STEEL COLLAR AROUND PIPE
1/2" ϕ ROD WELDED INSIDE OF PIPE ON ℄
1/4" x 13 1/2" ϕ STEEL FLAME PLATE, SEE DETAIL THIS SHEET
8" ϕ SCH 40 STEEL PIPE
1/2 CY. CAPILLARY WATER BARRIER MATERIAL AT OPEN END OF PIPE
1/4" THICK x 13 1/2" ϕ STEEL PLATE
8-7/8" ϕ HOLES FOR 3/4" ϕ BOLTS ON 11 3/4" ϕ BOLT CIRCLE
7/16" ϕ HOLES AT 7/16" CENTER TO CENTER AS SHOWN
1 1/8" ϕ HOLE FOR BOLT
3/8" R, WELD TO C3x6.0
5 1/2" x 1/8" x 0'-8" R WELD TO 16 GA. R
CUT HOLE IN 16 GA. R & 1/8" R FOR BOLT
3/8" STEEL R
REVISED HIGH SECURITY HASP 10 SEP 87
GENERAL REVISION / SIMONS - EASTERN CO. 14 FEB 67
EXTERIOR ELEV., SECT. A, DETS. 7, 8 & 9 MODIFIED 1 JUN. 66
GENERAL REVISIONS 2 MAR 65
GENERAL REVISION 11 AUG 64
BLACK & VEATCH CONSULTING ENGINEERS KANSAS CITY, MISSOURI
DEFENSE ATOMIC SUPPORT AGENCY
OFFICE OF THE CHIEF OF ENGINEERS WASHINGTON, D.C.
WRG DPB
DPB
WVH
HLC
EARTH COVERED STEEL ARCH MAGAZINES
DOOR AND MISCELLANEOUS DETAILS
9 OCT 1967
33-15-65
SHEET 4 OF 6