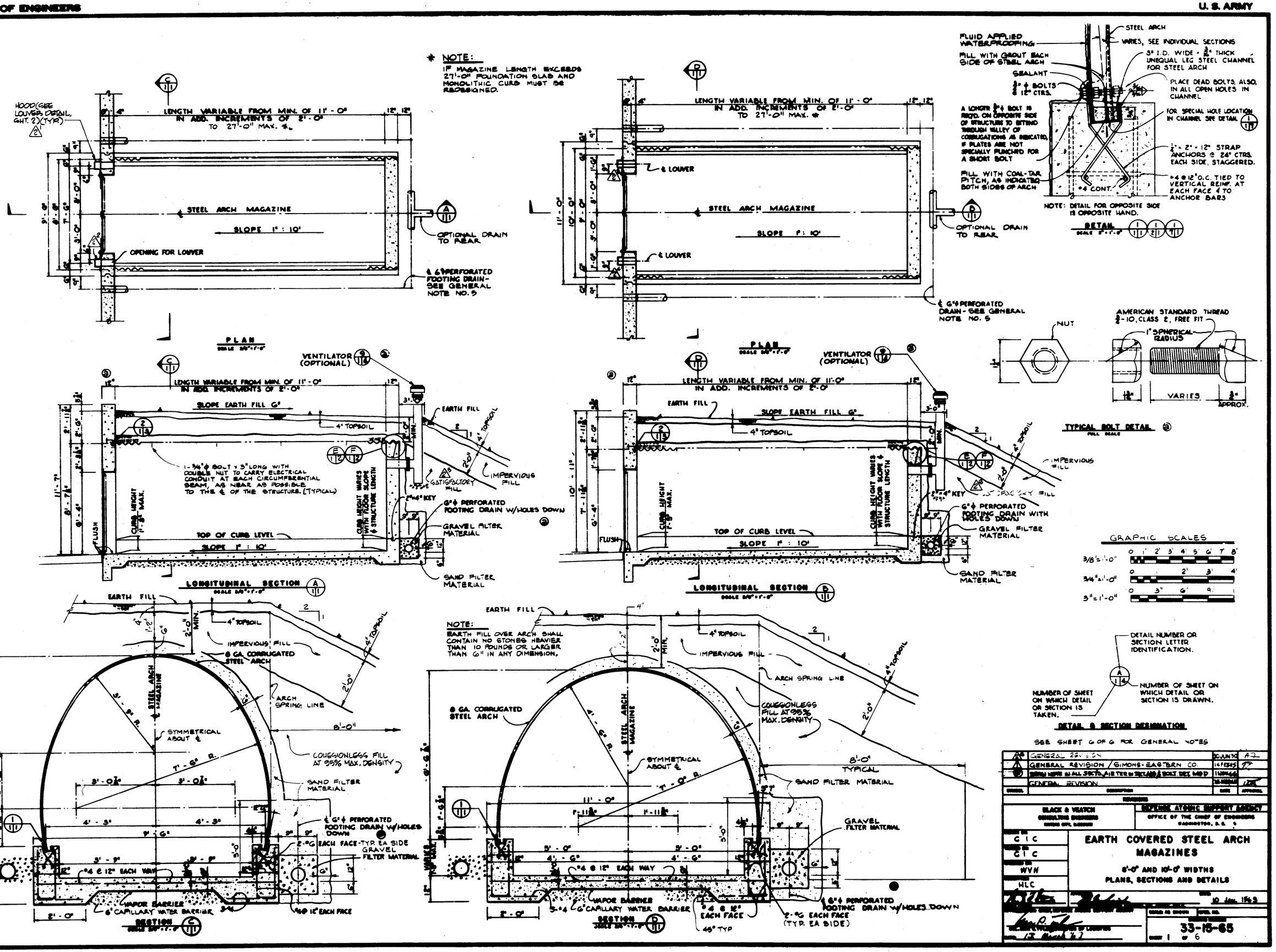
* NOTE:
IF MAGAZINE LENGTH EXCEEDS 27'-0" FOUNDATION SLAB AND MONOLITHIC CURB MUST BE REDESIGNED.
HOOD (SEE LOUVER DETAIL, GHT. 2) (TYP.)
LENGTH VARIABLE FROM MIN. OF 11'-0" IN ADD. INCREMENTS OF 2'-0" TO 27'-0" MAX. *
STEEL ARCH MAGAZINE
SLOPE 1" : 10'
OPENING FOR LOUVER
OPTIONAL DRAIN TO REAR
℄ 6"ϕ PERFORATED FOOTING DRAIN - SEE GENERAL NOTE NO. 5
PLAN
℄ LOUVER
℄ 6"ϕ PERFORATED DRAIN - SEE GENERAL NOTE NO. 5
FLUID APPLIED WATERPROOFING
FILL WITH GROUT EACH SIDE OF STEEL ARCH
SEALANT
3/4" ϕ BOLTS @ 12" CTRS.
A LONGER 3/4"ϕ BOLT IS REQ'D. ON OPPOSITE SIDE OF STRUCTURE TO EXTEND THROUGH VALLEY OF CORRUGATIONS AS INDICATED, IF PLATES ARE NOT SPECIALLY PUNCHED FOR A SHORT BOLT
FILL WITH COAL-TAR PITCH, AS INDICATED BOTH SIDES OF ARCH
STEEL ARCH
VARIES, SEE INDIVIDUAL SECTIONS
3" I.D. WIDE x 3/8" THICK UNEQUAL LEG STEEL CHANNEL FOR STEEL ARCH
PLACE DEAD BOLTS, ALSO, IN ALL OPEN HOLES IN CHANNEL
FOR SPECIAL HOLE LOCATION IN CHANNEL SEE DETAIL
2" x 2" x 12" STRAP ANCHORS @ 24" CTRS. EACH SIDE, STAGGERED.
#4 @ 12" O.C. TIED TO VERTICAL REINF. AT EACH FACE & TO ANCHOR BARS
#4 CONT.
NOTE: DETAIL FOR OPPOSITE SIDE IS OPPOSITE HAND.
DETAIL
NUT
AMERICAN STANDARD THREAD 3/4-10, CLASS 2, FREE FIT
1" SPHERICAL RADIUS
VARIES
APPROX.
TYPICAL BOLT DETAIL
FULL SCALE
VENTILATOR (OPTIONAL)
EARTH FILL
SLOPE EARTH FILL 6"
4" TOPSOIL
1-3/4"ϕ BOLT x 3" LONG WITH DOUBLE NUT TO CARRY ELECTRICAL CONDUIT AT EACH CIRCUMFERENTIAL SEAM, AS NEAR AS POSSIBLE TO THE ℄ OF THE STRUCTURE. (TYPICAL)
CURB HEIGHT 1'-8" MAX.
FLUSH
CURB HEIGHT VARIES WITH FLOOR SLOPE & STRUCTURE LENGTH
2"x4" KEY
6"ϕ PERFORATED FOOTING DRAIN W/HOLES DOWN
GRAVEL FILTER MATERIAL
SAND FILTER MATERIAL
IMPERVIOUS FILL
SATISFACTORY FILL
TOP OF CURB LEVEL
SLOPE 1" : 10'
LONGITUDINAL SECTION
6"ϕ PERFORATED FOOTING DRAIN WITH HOLES DOWN
GRAVEL FILTER MATERIAL
SAND FILTER MATERIAL
GRAPHIC SCALES
3/8"=1'-0"
3/4"=1'-0"
3"=1'-0"
NOTE:
EARTH FILL OVER ARCH SHALL CONTAIN NO STONES HEAVIER THAN 10 POUNDS OR LARGER THAN 6" IN ANY DIMENSION.
4" TOPSOIL
IMPERVIOUS FILL
8 GA. CORRUGATED STEEL ARCH
ARCH SPRING LINE
STEEL ARCH ℄ MAGAZINE
SYMMETRICAL ABOUT ℄
COHESIONLESS FILL AT 95% MAX. DENSITY
SAND FILTER MATERIAL
℄ 6"ϕ PERFORATED FOOTING DRAIN W/HOLES DOWN
2-#6 EACH FACE - TYP. EA SIDE
GRAVEL FILTER MATERIAL
#4 @ 12" EACH WAY
VAPOR BARRIER
6" CAPILLARY WATER BARRIER
#4 @ 12" EACH FACE
SECTION
DETAIL NUMBER OR SECTION LETTER IDENTIFICATION.
NUMBER OF SHEET ON WHICH DETAIL OR SECTION IS TAKEN.
NUMBER OF SHEET ON WHICH DETAIL OR SECTION IS DRAWN.
DETAIL & SECTION DESIGNATION
SEE SHEET 6 OF 6 FOR GENERAL NOTES
GENERAL REVISION
GENERAL REVISION / SIMONS-EASTERN CO.
GENERAL REVISION
BLACK & VEATCH CONSULTING ENGINEERS KANSAS CITY, MISSOURI
DEFENSE ATOMIC SUPPORT AGENCY
OFFICE OF THE CHIEF OF ENGINEERS WASHINGTON, D.C.
C I C
C I C
WVH
HLC
EARTH COVERED STEEL ARCH MAGAZINES
8'-0" AND 10'-0" WIDTHS
PLANS, SECTIONS AND DETAILS
10 JAN. 1963
33-15-65
SHEET 1 OF 6