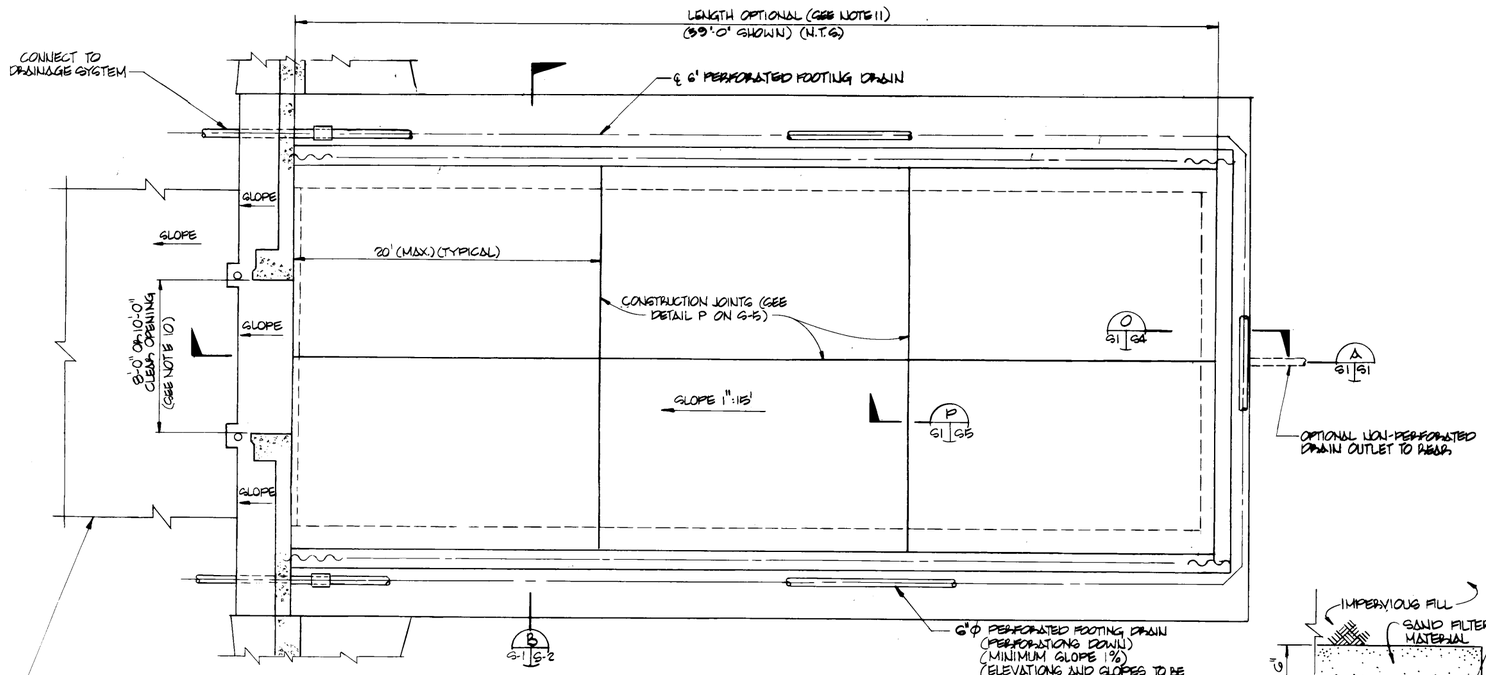
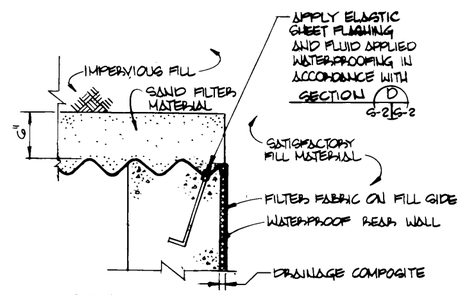
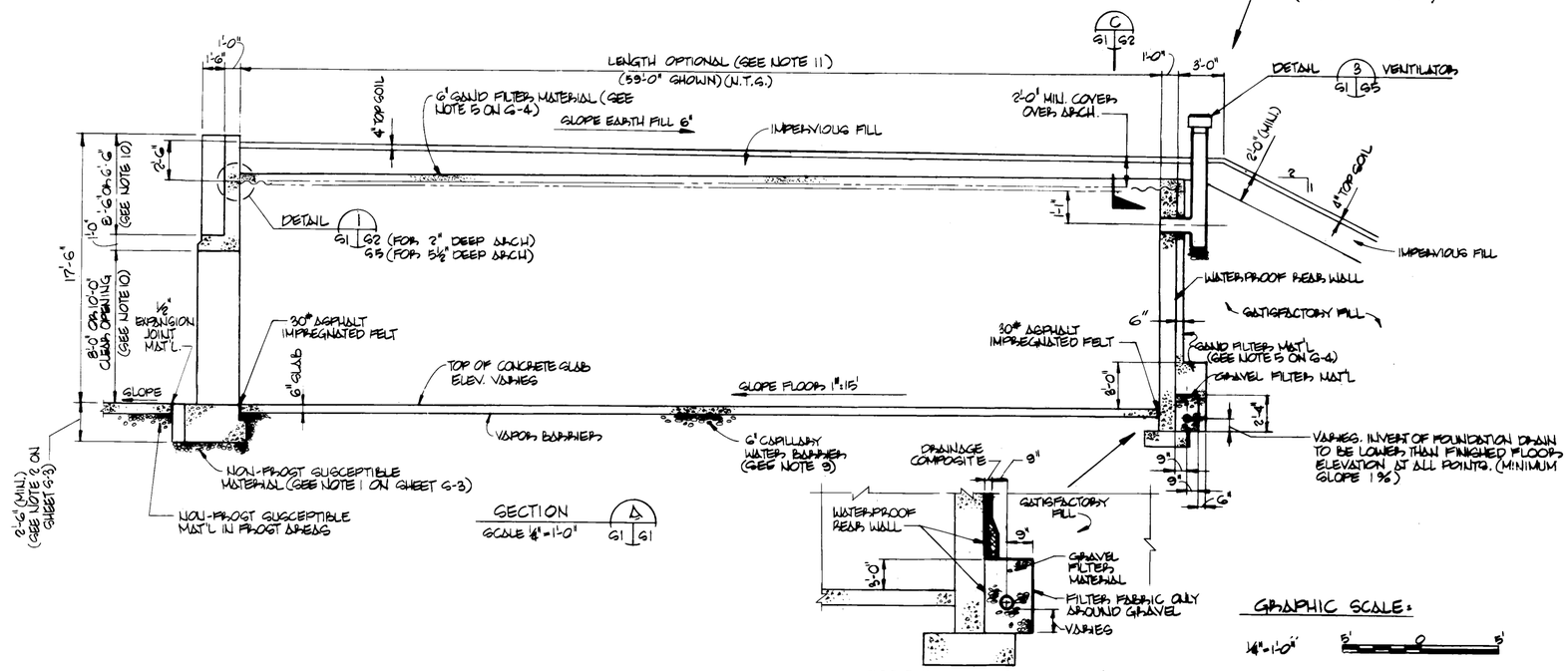


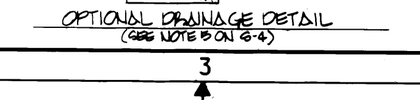
FOUNDATION PLAN
SCALE 1/4" = 1'-0"



OPTIONAL DRAINAGE DETAIL
AT TOP OF REAR WALL
(SEE NOTE 5 ON G-4)



SECTION
SCALE 1/4" = 1'-0" G1 | G1



OPTIONAL DRAINAGE DETAIL
(SEE NOTE 5 ON G-4)

GRAPHIC SCALE:
1/4" = 1'-0" 5' 0 5'

GENERAL NOTES:

1. ALL CONCRETE, EXCEPT THE FLOOR SLAB AND APRON, SHALL DEVELOP 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. THE FLOOR SLAB AND APRON SHALL DEVELOP A FLEXURAL STRENGTH OF 570 P.S.I. AT 28 DAYS.
2. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60 EXCEPT TIES TO BE GRADE 40 OR GRADE 60.
3. CONCRETE PERMANENTLY EXPOSED TO THE WEATHER TO BE AIR-ENTRAINED.
4. THE DESIGN AND CONSTRUCTION OF ALL REINFORCED CONCRETE SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318).
5. DELETED
6. EXCEPT AS OTHERWISE NOTED, STRUCTURAL STEEL SHALL CONFORM TO ASTM-A36. ANCHOR BOLT MATERIAL SHALL BE ASTM-A307.
7. THE DESIGN AND FABRICATION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION.
8. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE STRUCTURAL WELDING CODE FOR STEEL OF THE AMERICAN WELDING SOCIETY.
9. IN AREAS WHERE THE SUBGRADE SOILS PROVIDE FOR MOVEMENT OF WATER BY CAPILLARY FLOW AND THE GROUND WATER TABLE IS LESS THAN 15' FROM THE FINAL GRADE, POSITIVE DRAINAGE IS TO BE PROVIDED UNDER THE FLOOR SLAB TO INSURE AGAINST WATER BEING TRAPPED BENEATH THE SLAB.
10. DOOR TO BE SIZED FOR EITHER AN 8FT. OR 10 FT. OPENING.
11. MINIMUM LENGTH = 19'-0" FACE TO FACE OF INSIDE WALLS. (SEE FRONT AND REAR WALL ANCHORAGE DETAILS ON SHEETS G-2 AND G-3 FOR DETAILS OF CORRUGATED STEEL PLATE LENGTH MULTIPLES) FOR ADDITIONAL LENGTH, FOR ARCH WITH 2" DEEP CORRUGATIONS, ADD CORRUGATED STEEL PLATES OF 10'-0" AND/OR 12'-0" NOMINAL LENGTHS. FOR ADDITIONAL LENGTH FOR ARCH WITH 5 1/8" DEEP CORRUGATIONS, ADD CORRUGATED STEEL PLATES OF 2'-6" NOMINAL LENGTH. THE MOST COMMONLY USED MAGAZINE LENGTH = 39'-0".
12. IT IS THE RESPONSIBILITY OF THE SITE ADAPTION ENGINEER TO MODIFY THESE DRAWINGS TO MEET LOCAL SITING, FOUNDATION, AND TOPOGRAPHIC CONDITIONS. INAPPROPRIATE NOTES AND DETAILS SHALL BE DELETED FROM THE DRAWINGS.
13. THE 6" MAGAZINE FLOOR SLAB AND APRON IS DESIGNED FOR A UNIFORM STATIONARY LIVE LOAD OF 300 P.S.F. OR 50 OPERATIONS PER DAY OF A FORKLIFT WITH A MAXIMUM AXLE LOAD OF 10,000 LBS. THESE VALUES ARE BASED ON A MODULUS OF SUBGRADE REACTION OF 100 LBS./IN³ AND A FLEXURAL STRENGTH FOR THE CONCRETE OF 570 P.S.I.. IF A HIGHER STATIONARY LIVE LOAD OR WHEEL LOADING IS REQUIRED THEN THE SLAB AND APRON SHOULD BE REDESIGNED IN ACCORDANCE WITH TM5-809-12. THE APRON SHOULD SLOPE AWAY FROM THE MAGAZINE.
14. OPERATIONAL LIVE LOADS ON TOP OF THE MAGAZINE SHOULD NOT EXCEED THOSE IMPOSED BY NORMALLY USED GROUND MOWING EQUIPMENT.
15. LOUVERS ARE OPTIONAL. THEIR NECESSITY AND SIZE SHALL BE DETERMINED, DURING THE SITE-ADAPTION PROCESS, BASED ON MATERIALS TO BE STORED AND GEOGRAPHICAL LOCATIONS. THE LOUVER WIDTH OF 6" SHALL BE MAINTAINED. THE HEIGHT MAY BE VARIED AS NECESSARY.
16. ALL METAL PARTS, TO INCLUDE REINFORCEMENT, LOUVERS, VENTILATOR, DOOR, DOOR FRAME, ETC., SHALL BE MADE ELECTRICALLY CONTINUOUS BY CLIPPING, BRAZING OR WELDING. ELECTRICAL CONTINUITY SHALL BE PROVIDED ACROSS FLOOR CONSTRUCTION JOINTS AND ACROSS FLOOR ISOLATION JOINTS TO ARCH REINFORCEMENT AT 5 LINEAR FEET INTERVALS. ACCEPTABLE ELECTRICAL CONTINUITY METHODS ARE REINFORCEMENT BARS, COPPER STRAPS, ETC.

Symbol	Description	Date	Approved
	GENERAL REVISION FOR LIGHTNING PROTECTION	11 JAN 96	DAWJ
	GENERAL REVISION	30 JUN 90	RCL

Revisions

U.S. ARMY ENGINEER DIVISION, HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

Site adapt A/E :

US Army Corps of Engineers

MAGAZINE, STEEL
SEMICIRCULAR-ARCH, EARTH-COVERED
PLAN AND SECTION

Dwn. by : RDP	Ckd. by : CMB		
Reviewed by :	Date :	Sheet reference number :	Design file no. : 30086
Approved by :	Drawing code : STD 421-80-01	S-1	Rev.
			Sheet 2 of 11