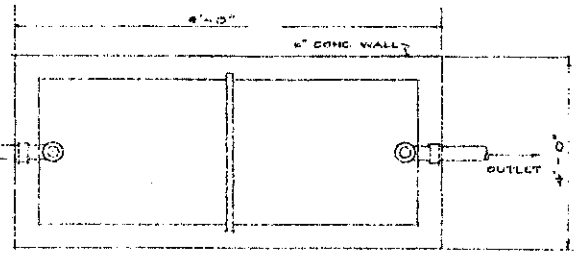
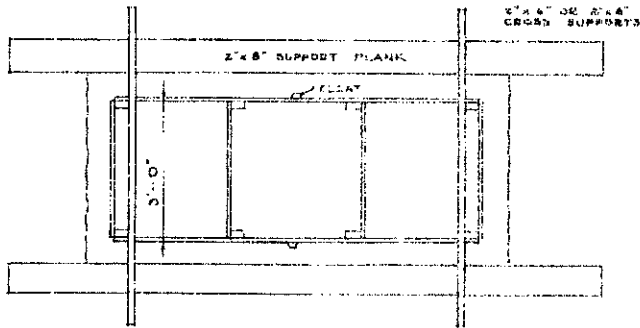


FORM FOR CONC. COVER SLABS  
SCALE 1/2" = 1'-0"

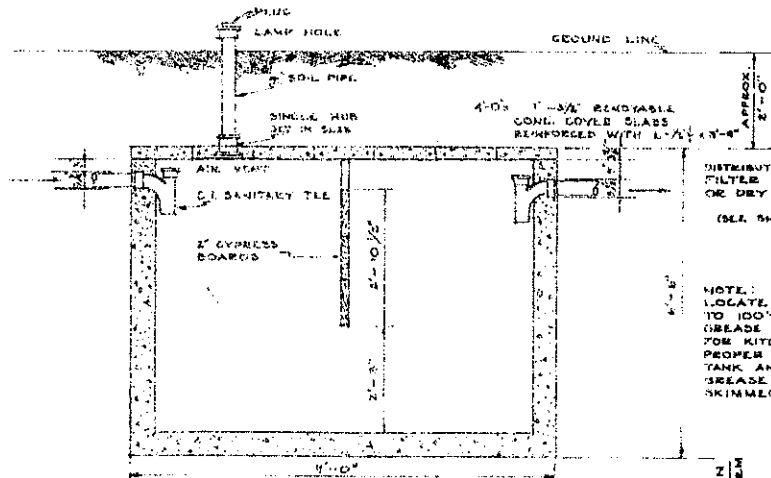
HOUSE SEWER 4" VITRIFIED SOIL PIPE  
JOINTS WELL CAULKED AND CEMENTED.  
SLOPE 1" IN 4'-0". IF LINE IS NEAR  
TREES USE 4" CAST IRON PIPE.



PLAN



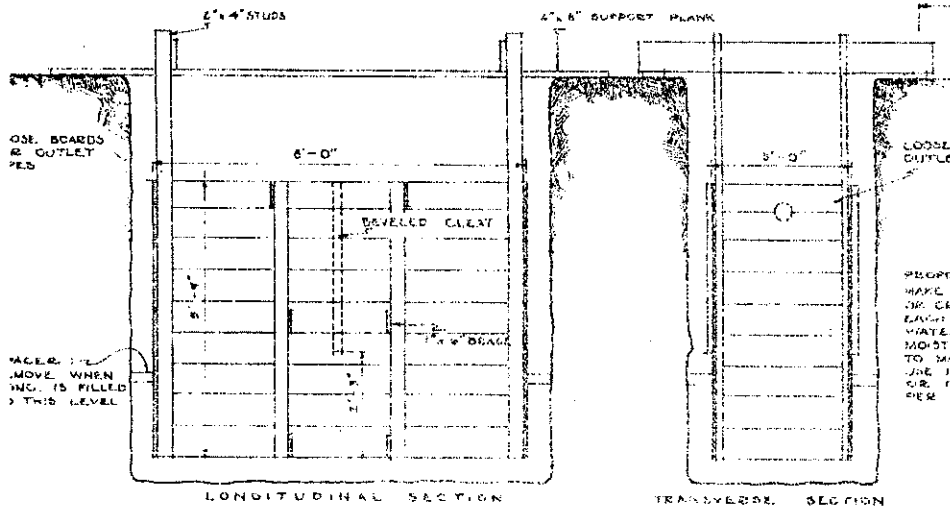
PLAN



LONGITUDINAL SECTION  
SCALE 1/2" = 1'-0"

DISTRIBUTOR PIPE TO  
FILTER BED STRAIN  
OR DRY WELL.  
(SEE SHEET 2)

NOTE:  
LOCATE SEPTIC TANK 50'-0"  
TO 100'-0" FROM HOUSE. A  
GRADE TRAP MUST BE PROVIDED  
FOR KITCHEN WASTE TO INSURE  
PROPER FUNCTIONING OF SEPTIC  
TANK AND FILTER.  
SKEARS IN TRAP SHOULD BE  
SKIMMED EVERY TWO MONTHS.



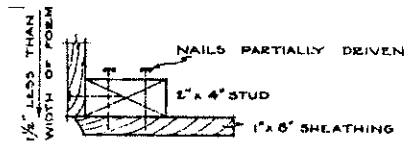
LONGITUDINAL SECTION

TRANSVERSE SECTION

DETAIL FOR FORMS  
SCALE 1/2" = 1'-0"

DETAIL OF BEVELED CLEAT  
SCALE 1/2" = 1'-0"

PROPORTIONS FOR CONCRETE:  
MAKE CONCRETE FROM STRONG CLEAN SAND AND GRAVEL  
OR CRUSHED ROCK NOT EXCEEDING 1" IN SIZE. TO  
EACH BAG (50) OF CEMENT ADD NOT OVER (5 1/2) GALS.  
WATER IF AGGREGATE IS VERY DRY (6 1/2) GALS IF  
MEDIUM OR VERY WET. MIX WITH SUFFICIENT AGGREGATE  
TO MAKE A SMOOTH PLASTIC MIX. AS A TRAP MIX  
USE 1 PART CEMENT, 2 PARTS SAND, 3 PARTS GRAVEL  
OR CRUSHED ROCK. DO NOT VARY AMOUNT OF WATER  
PER BAG OF CEMENT FROM THAT GIVEN ABOVE.

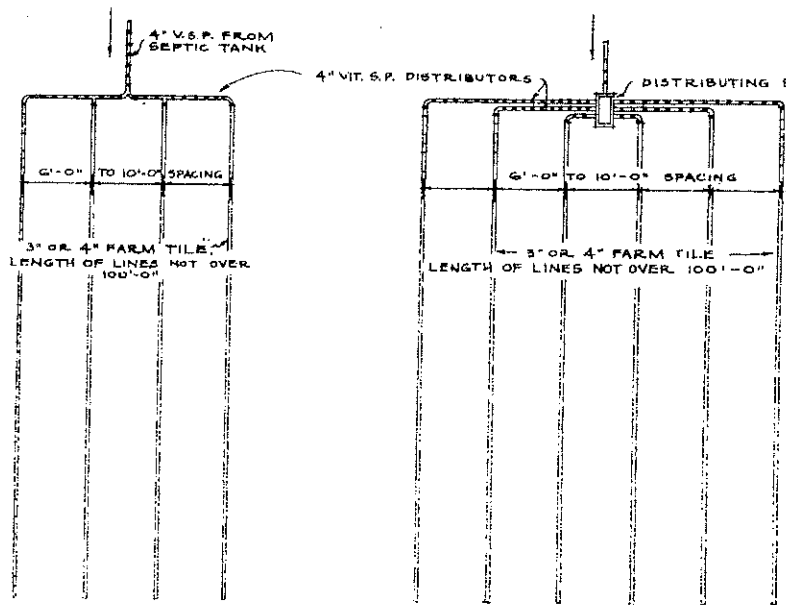


DETAIL OF CORNER FORM  
SCALE 3/4" = 1'-0"

COOPERATIVE EXTENSION WORK IN  
AGRICULTURE AND HOME ECONOMICS  
STATE OF NORTH DAKOTA  
NORTH DAKOTA AGRICULTURAL COLLEGE  
AND  
U.S. DEPT. OF AGRICULTURE COOPERATING  
EXT. AG. ENGINEER-FARGO, N.DAK.

SEPTIC TANK

MIDWEST 85113-33 EX. 3407 SHEET 1 OF 2

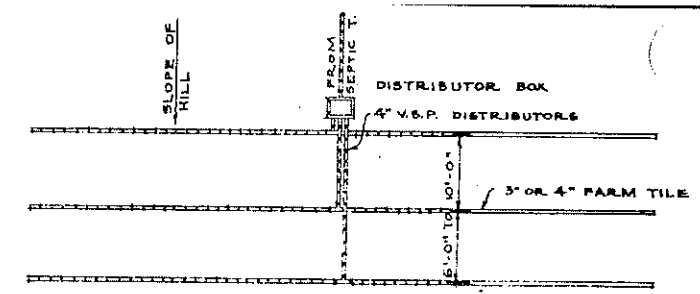


① DISTRIBUTING SYSTEM USED WITH SANDY POROUS SOIL

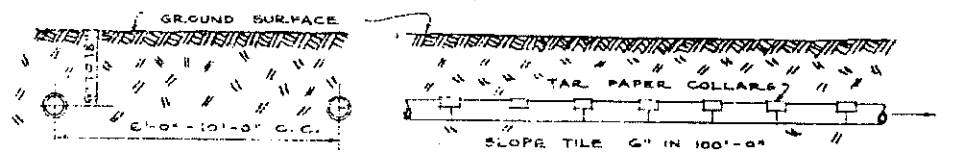
② DISTRIBUTING SYSTEM USED WITH LESS POROUS SOIL

**SUB-SURFACE IRRIGATION SYSTEM FOR LEVEL GROUND**  
SCALE 1/8" = 1'-0"

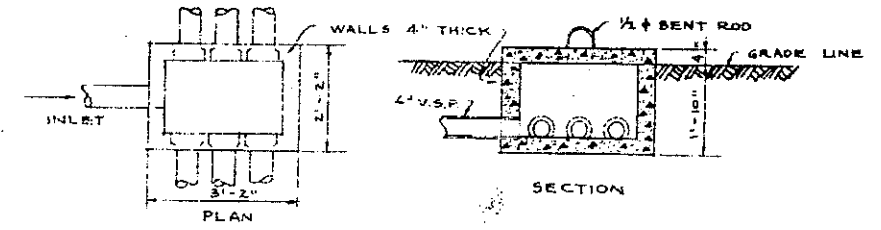
NOTE - LENGTH OF TILED RUNS IN DISTRIBUTING SYSTEM DEPENDENT UPON SOIL CONDITIONS. RECOMMENDED LENGTH - 20-60 FEET PER PERSON



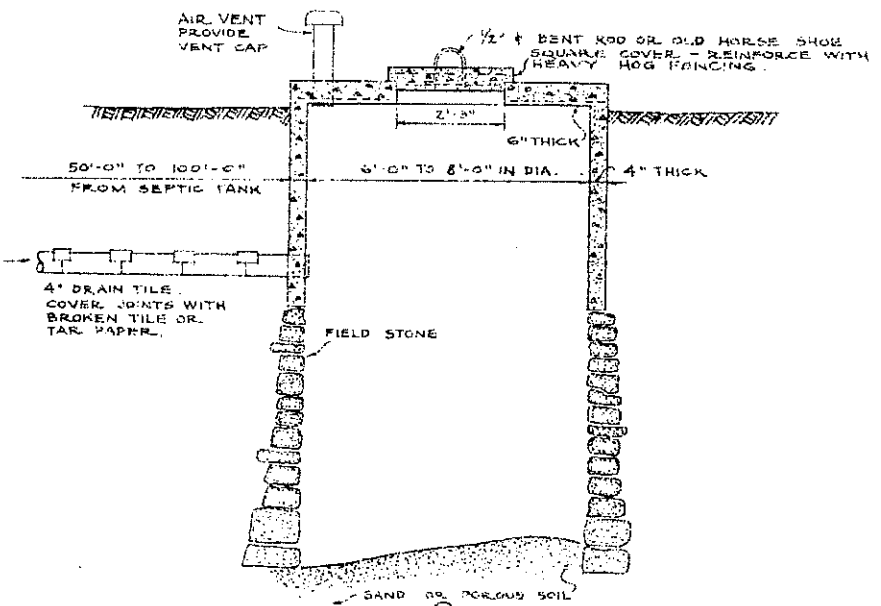
**SUB-SURFACE IRRIGATION SYSTEM FOR SIDE HILL**  
SCALE 1/8" = 1'-0"



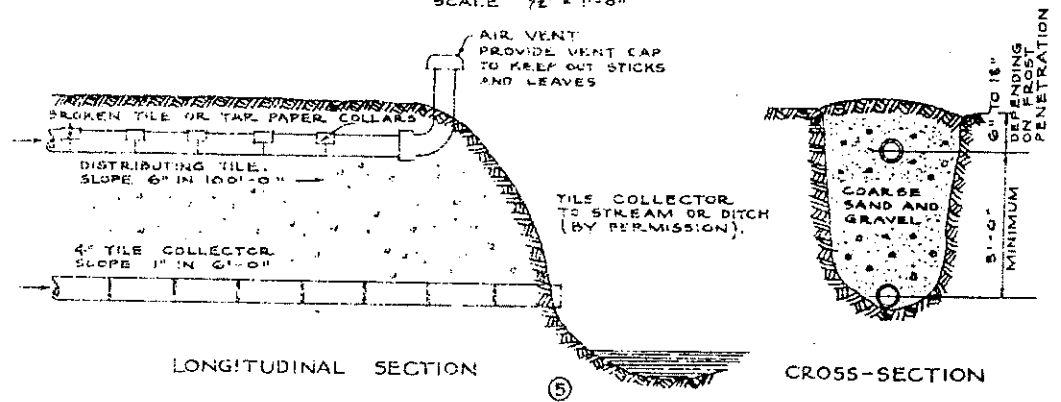
**DETAIL OF TRENCHING SYSTEM IN POROUS SOIL**



**DETAILS FOR SUB-SURFACE IRRIGATION SYSTEM**  
SCALE 1/2" = 1'-0"



**DRY WELL - OPTIONAL METHOD**  
SCALE 1/2" = 1'-0"



**DISTRIBUTING SYSTEM FOR VERY TIGHT CLAY SOIL**  
SCALE 1/2" = 1'-0"

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS  
STATE OF NORTH DAKOTA  
NORTH DAKOTA AGRICULTURAL COLLEGE  
AND  
DEPT. OF AGRICULTURE COOPERATING  
EXT. AGR'L. ENGINEER - FARGO, N. DAK.  
**SEPTIC TANK**  
MIDWESTERN 12-13-33 EX. 5408 SHEET 2 OF 2