STRUCTURAL NOTES:

A. MAJOR CODES AND STANDARDS

1. 2021 VIRGINIA RESIDENTIAL CODE

B. DESIGN LOADS

a. DEAD LOADS
UP TO 8'-0" OF FILL
b. LIVE LOADS
HS-20 WHEEL LOADS

C. GENERAL NOTES

1. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS/ MEASURES TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM DAMAGES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES THAT MAY OCCUR DURING CONSTRUCTION.
2. JOB SAFETY, CONSTRUCTION PROCEDURES AND CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

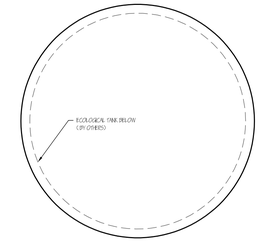
D. FOUNDATIONS

1. G. C. SHALL EMPLOY A GEOTECHNIAL ENGINEERING FIRM TO VERIFY SUITABLE SUBGRADE PRIOR TO CONRETE PLACEMENT.

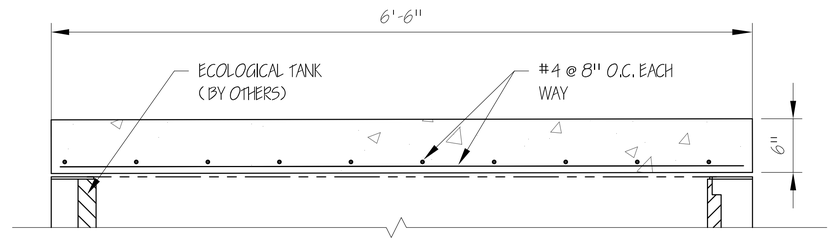
E. REINFORCED CONCRETE

1. THE DESIGN OF ALL CONCRETE STRUCTURAL ELEMENTS SHALL BE IN ACCORDANCE WITH ACI 318-10. ALL CONCRETE SHALL BE CONTROLLED CONCRETE AND ALL CONCRETING PRACTICES SHALL CONFORM WITH ACI 318-08, "AMERICAN CONCRETE INSTITUTE, BUILDING CODE FOR REINFORCED CONCRETE." CONCRETE DETAILS SHALL BE IN ACCORDANCE WITH ACI-135, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. UNLESS OTHERWISE NOTED ON PLAN, ALL CONCRETE SHALL BE NORMAL WEIGHT WITH 28 DAYS COMPRESSIVE STRENGTH OF 3000 PSI (W/ C=0.5 MAX.) . ANY CONCRETE EXPOSED TO WEATHER SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI.
3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 (f_y = 60,000 PSI) ALL REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A-706. THE REINFORCING BARS SUPPLIER SHALL PROVIDE THE ENGINEER WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF THE A.S.T.M.
4. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARS OR STIRRUPS NECESSARY TO SUPPORT ALL BARS AS REQUIRED TO COMPLETE HIS WORK.
5. ALL REINFORCING BARS SHALL BE LAPPED AS SPECIFICALLY DETAILED ON THE DRAWINGS. WHERE NOT SPECIFICALLY INDICATED, ALL REINFORCING BARS SHALL BE LAPPED USING CLASS B TENSION SPLICE LENGTHS.
6. UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS, PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING BARS AS FOLLOWS:

CAST AGAINST EARTH: 3"
EXPOSED TO EARTH OR WEATHER:
5 AND SMALLER: 1-1/ 2"
6 AND LARGER: 2"
NOT EXPOSED TO EARTH OR WEATHER
SLAB AND WALL:
11 AND SMALLER: 3/ 4"



1 S-101 TANK SLAB PLAN
SCALE: 3/4" = 1'-0"



1 S-101 PRECAST TANK SLAB SECTION
SCALE: 1 1/2" = 1'-0"

DOCUMENT ISSUES

Revision No.	Description	Date

Stamp

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PRECAST TANK SLAB
COMMONWEALTH OF VIRGINIA

01/07/2026

Project Number
25041

Drawing Title
ECOLOGICAL TANK PRECAST TOP SLAB

Drawing No.
S-101