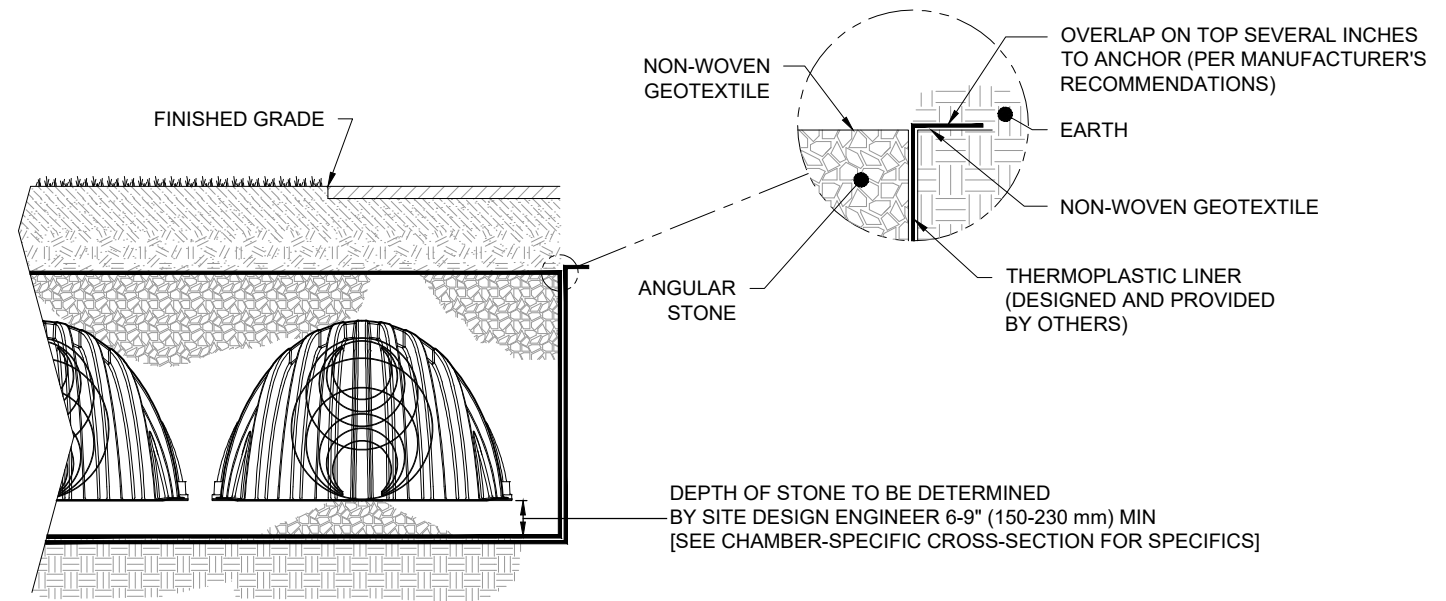


## SPECIAL PROVISIONS - CHAMBER BELOW STRUCTURE

1. INSTALLATION REQUIREMENTS SHALL BE AS SPECIFIED IN THE STORMTECH DESIGN MANUALS AND CONSTRUCTION GUIDES EXCEPT AS MODIFIED IN THESE SPECIAL PROVISIONS.
2. THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE BUILDING/STRUCTURE. NO FOUNDATION OR COLUMN LOADS SHALL BE TRANSMITTED TO THE CHAMBERS. THE SITE DESIGN ENGINEER MUST CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON BEARING CAPACITY OF SOILS AND SEEPAGE INTO BASEMENTS.
3. CONTRACTOR REQUIRED TO SCHEDULE PRE-CONSTRUCTION MEETING WITH AN ADS REPRESENTATIVE PRIOR TO INSTALLATION WITH ON-SITE INSTALLATION AND INSPECTION PERSONNEL.
4. INSPECTION DURING THE INSTALLATION BY THE SITE DESIGN ENGINEER, OWNER OR OTHER REPRESENTATIVE IS REQUIRED. THE INSPECTION SHALL ENSURE THE CONTRACTOR STRICTLY ADHERES TO THE REQUIREMENTS AND GUIDANCE PROVIDED IN THE STORMTECH CONSTRUCTION GUIDE. DILIGENCE SHOULD BE TAKEN DURING INSPECTION TO ENSURE BACKFILL OF THE SYSTEM IS COMPLETED UNIFORMLY AS TO NOT PROMOTE UNILATERAL CHAMBER DEFLECTION.
5. POST-INSTALLATION INSPECTION BY THE SITE DESIGN ENGINEER, OWNER OR OTHER REPRESENTATIVE IS REQUIRED. INSTALLATION REPORTS SHALL BE PROVIDED TO THE SITE DESIGN ENGINEER, OWNER, CONTRACTOR AND MANUFACTURER.
6. PRECAUTION SHALL BE TAKEN TO MITIGATE ANY/ALL CONSTRUCTION LOADING.
7. ANY LOADING ASSOCIATED WITH CONSTRUCTION SEQUENCING AND/OR TEMPORARY SHORING HAS NOT BEEN EVALUATED BY LICENSED STRUCTURAL ENGINEER.



### MEMBRANE LINER DETAIL

NTS

### GENERAL NOTES:

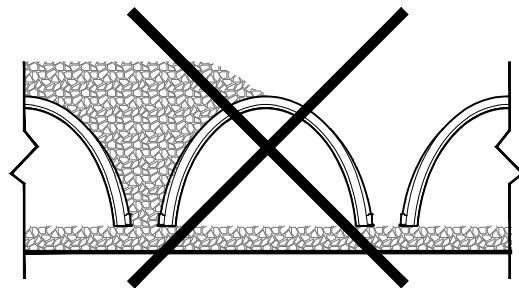
1. THIS DETAIL PROVIDES THE REQUIREMENTS FOR A MEMBRANE LINER SYSTEM USING CHAMBER STRUCTURES AND ANGULAR STONE BACKFILL MATERIALS PER THE ACCEPTABLE FILL MATERIALS TABLE.
2. THE CONTRACTOR RESPONSIBLE FOR THE LINER INSTALLATION IS REFERRED TO AS THE "INSTALLER". THE CONTRACTOR RESPONSIBLE FOR THE CHAMBER INSTALLATION IS REFERRED TO AS THE "CONTRACTOR".
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT NO DAMAGE OCCURS TO THE INSTALLED LINER SYSTEM DURING THE CONSTRUCTION AND BACKFILL OF THE CHAMBER SYSTEM. PIPE OR CHAMBER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CHAMBER MANUFACTURER REQUIREMENTS, WITH ADDITIONAL REQUIREMENTS AS SPECIFIED HERE.

### MEMBRANE LINER NOTES:

1. LINER MEMBRANE THICKNESS SHALL BE AT LEAST 30 mil.
2. THE LINER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. SCOPE OF LINER SYSTEM & INSTALLATION SHALL INCLUDE BUT IS NOT LIMITED TO:
  - A. INSTALLATION OF NONWOVEN MEMBRANE PROTECTION LAYERS
  - B. INSTALLATION OF MEMBRANE
  - C. FIELD WELDING OF SEAMS
  - D. INSTALLATION OF BOOTS OR SPECIAL FITTINGS AT PIPE PENETRATION
4. ALL MEMBRANE LINER WELDING SHALL BE CONDUCTED BY IAGI CERTIFIED WELDING TECHNICIANS.

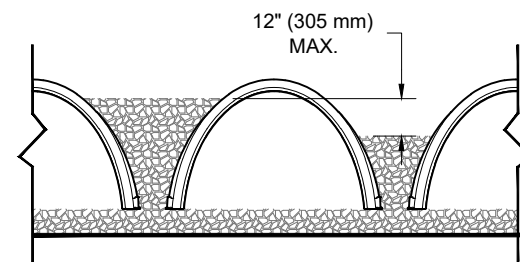
### ADDITIONAL REQUIREMENTS FOR THE CONTRACTOR:

1. PREPARATION OF BOTTOM AND SIDEWALLS OF EXCAVATION:
  - A. ALL PROTRUSIONS OF STONE OR OTHER MATERIALS SHALL BE REMOVED FROM THE BOTTOM AND SIDEWALLS OF THE EXCAVATION
  - B. THE BOTTOM OF THE EXCAVATION SHALL BE ROLLED SMOOTH
2. THE CONTRACTOR SHALL PROVIDE ANCHOR TRENCHES OR OTHER MEANS OF HOLDING UP THE LINER AT THE TOP OF THE EXCAVATION AS DIRECTED BY THE INSTALLER.
3. STONE (FOUNDATION STONE) SHALL BE SPREAD ON THE NONWOVEN PROTECTIVE LAYER IN A MANNER SO AS TO NOT DAMAGE THE MEMBRANE.
  - A. NO EQUIPMENT, TRACKED OR WHEELED, SHALL BE DRIVEN DIRECTLY ON THE NONWOVEN PROTECTIVE LAYER
  - B. LOW GROUND PRESSURE (LGP) TRACKED VEHICLES MAY BE USED WITH 6" (150 mm) OR MORE STONE DEPTH UNDER THE TRACKS
  - C. STONE SHALL NOT BE DUMPED OR DROPPED ONTO THE PROTECTIVE LAYER IN MORE THAN A 5' (1.52 m) FALL
4. ROLLING OF FOUNDATION STONE SHALL BE LIMITED TO A MAXIMUM DRUM WEIGHT OF 5000 lbs. (2267 kg.) NO DYNAMIC FORCE IS ALLOWED.

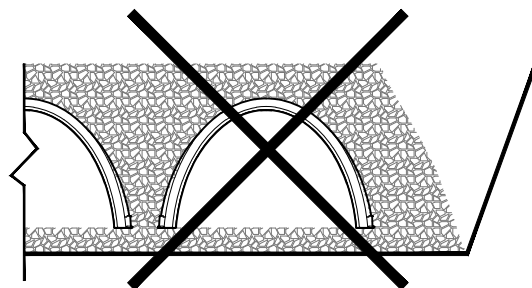


UNEVEN BACKFILL

BACKFILL CHAMBERS EVENLY. STONE COLUMN HEIGHT SHOULD NEVER DIFFER BY MORE THAN 12" (305 mm) BETWEEN ADJACENT CHAMBER ROWS OR BETWEEN CHAMBER ROWS AND PERIMETER.

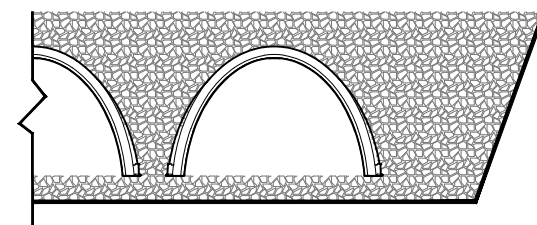


EVEN BACKFILL



PERIMETER NOT BACKFILLED

PERIMETER STONE MUST BE BROUGHT UP EVENLY WITH CHAMBER ROWS. PERIMETER MUST BE FULLY BACKFILLED, WITH STONE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL.



PERIMETER FULLY BACKFILLED

UNDER STRUCTURE  
CHAMBER DETAILS

STORMTECH  
DATE: 10/14/2024 DRAWN: SMW  
DRAWING #: 720-050 CHECKED: JLM

DESCRIPTION

DATE DRWN CHKD

**StormTech**<sup>®</sup>  
Chamber System  
1-800-821-6710 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD  
HILLIARD, OH 43026

**ADS**

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS/STORMTECH UNDER THE DIRECTION OF THE PROJECT'S ENGINEER OF RECORD (EOR) OR OTHER PROJECT REPRESENTATIVE. THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING PRIOR TO BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCTION (S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.