

STORMKEEP STORMWATER CHAMBER

STORMWATER CHAMBER SPECIFICATIONS

- 1. STORMWATER CHAMBERS SHALL BE LANE STORMKEEPER® SK75 OR APPROVED EQUAL
- 2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE RESINS.
- 3. CHAMBERS SHALL PROVIDE CONTINUOUS, UNRESTRICTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASTHO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR A) LONG DURATION DEAD LOADS, AND B) SHORT DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.
- 5. CHAMBERS SHALL MEET ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
- 6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
- 7. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE STORMKEEPER® SK75 SYSTEM

- 1. LANE STORMKEEPER® SK75 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRECONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. LANE STORMKEEPER® SK75 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE LANE STORMKEEPER® SK75 INSTALLATION GUIDELINE.
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR LOCATED OVER THE CHAMBERS.
 - LANE RECOMMENDS THREE (3) BACKFILL METHODS:
 - A. STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BEING BUILT WITH AN EXCAVATOR ON THE FOUNDATION STONE OR В. SUBGRADE
 - C. BACKFILL FROM OUTSIDE THE EXCAVATION UTILIZING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED BEFORE PLACING STONE.
- 6. MAINTAIN MINIMUM SIX INCH (6") SPACING BETWEEN CHAMBER ROWS.
- 7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12 INCHES INTO THE CHAMBER END CAPS
- 8. EMBEDMENT STONE SURROUNDING THE CHAMBERS MUST BE CLEAN, CRUSHED, ANGULAR STONE 4/" TO 2"
- 9. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION SUBGRADE MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.

NOTES FOR CONSTRUCTION EQUIPMENT:

- 1. LANE STORMKEEPER ® SK75 CHAMBERS ARE TO BE INSTALLED IN ACCORDANCE WITH INSTALLATION GUIDFUNES
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER THE LANE STORMKEEPER CHAMBERS IS LIMITED. A. NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS
 - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED OVER THE Β. CHAMBERS UNTIL PROPER FILL DEPTHS ARE ACHIEVED IN ACCORDANCE WITH THE STORMKEEPER SK 75 INSTALLATION GUIDE
 - C. WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE STORMKEEPER SK75 INSTALLATION GUIDE.
- 3. A MINIMUM COVER OF 36" OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
- 4. DURING NORMAL PAVING OPERATIONS, DUMP TRUCK AXLE LOADS ON 18" OF COVER FOR THE STORMKEEPER CHAMBER MAY BE NECESSARY. PRECAUTIONS SHOULD BE TAKEN TO AVOID RUTTING OF THE ROAD BASE LAYER, TO ENSURE THAT COMPACTION REQUIREMENTS HAVE BEEN MET AND THAT A MIN OF 18" OF COVER EXISTS OVER THE CHAMBERS.

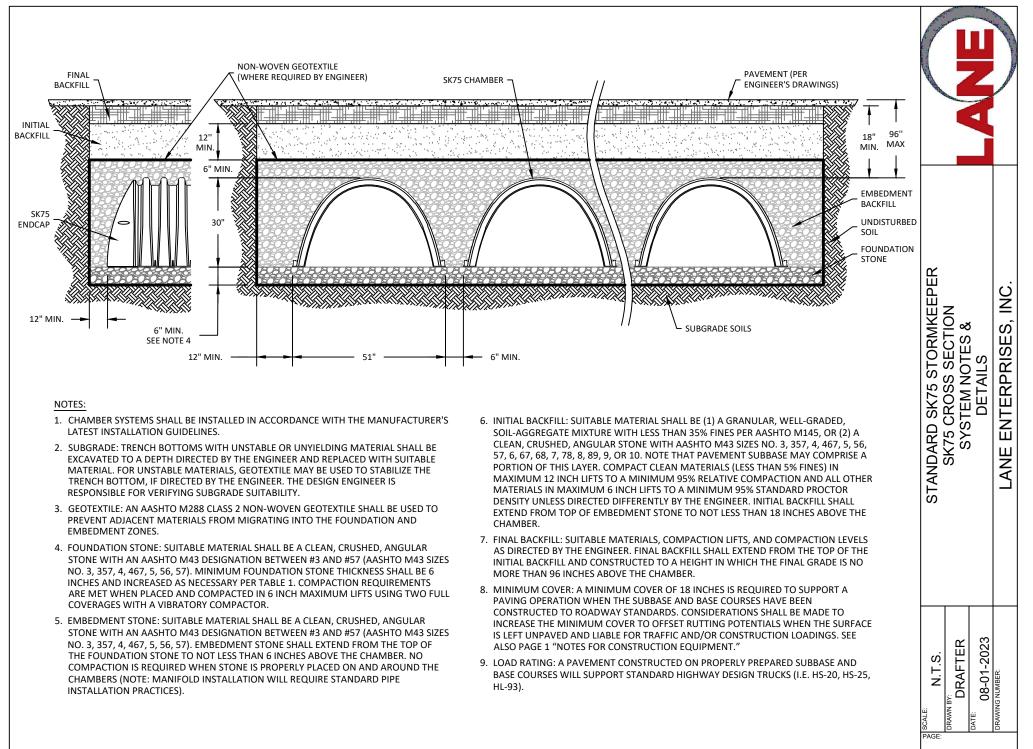
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMKEEPER STANDARD WARRANTY

CONTACT LANE ENTERPRISES WITH QUESTIONS ON INSTALLATION REQUIREMENTS OR CONSTRUCTION LOADING AND EQUIPMENT.

 \circ CHAMBER DTES & Ž Ш С SK7 STORMKEEPER CH SYSTEM NOTE ENTERPRISI S STANDARD AL Ш ANE 08-01-2023 DRAFTER 0 ⊢ Ż DRAWN

SCALE

PAGE:





STANDARD SK75 STORMKEEPER SK75 FOUNDATION STONE DEPTH CHART SYSTEM NOTES & DETAILS LANE ENTERPRISES, INC.

ž	DRAFTER	DATE:	08-01-2023	DRAWING NUMBER:
E:	1 0	F	1	
		i≿ —		

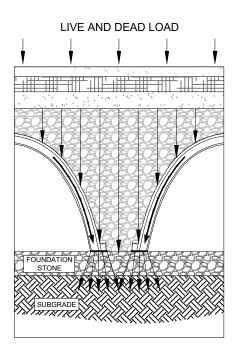


TABLE 1: SK75 FOUNDATION STONE DEPTH REQUIREMENTS (INCHES)

Cover	SK75 Minimum Required Bearing Capacity of Native Soil Subgrade, ksf																					
Height ft	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0
1.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	15.0	15.0
2.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	15.0	15.0	15.0
2.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0
3.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0
3.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	18.0	18.0	21.0
4.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	18.0	18.0	21.0
4.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	18.0	18.0	21.0
5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	21.0
5.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	21.0
6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	21.0	21.0
6.5	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	18.0	21.0	24.0
7.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	21.0	21.0	24.0
7.5	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	21.0	21.0	24.0	27.0
8.0	6.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	18.0	18.0	21.0	21.0	24.0	24.0	27.0