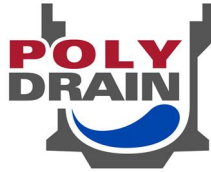


PolyDrain[®]

Pre-Engineered Surface Drainage

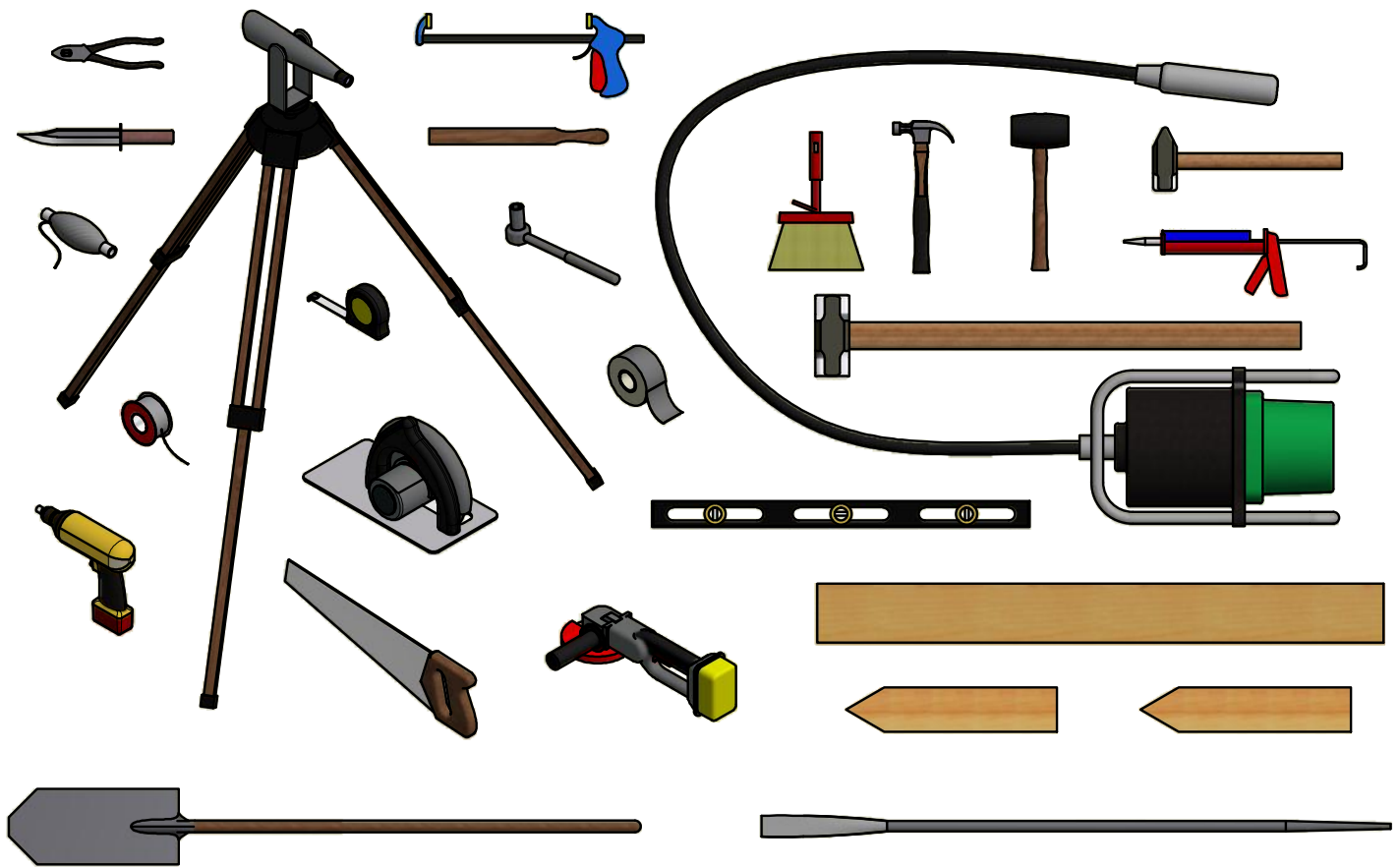


Installation Guide

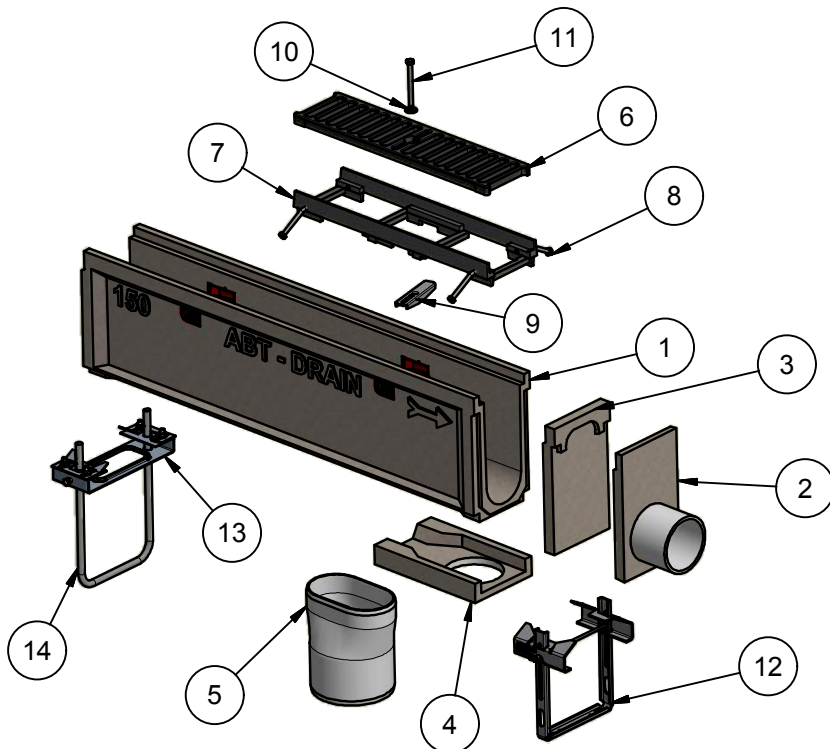
ABT[®], INC.

P.O. Box 837 - 259 Murdock Road - Troutman, NC 28166
Tel (704) 528-9806 - Fax (704) 528-5478 - www.abtdrains.com
Toll free in the USA, Canada, and Mexico (800) 438-6057

USEFUL OR REQUIRED TOOLS

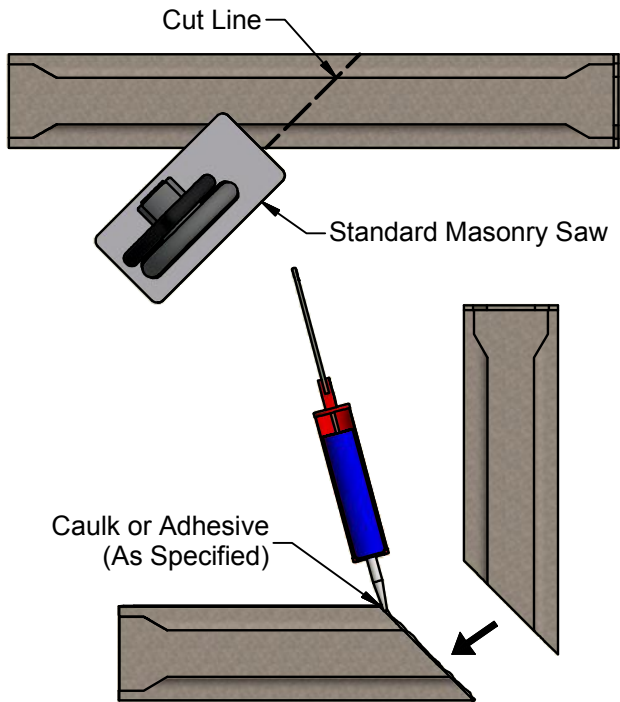


COMPONENT IDENTIFICATION

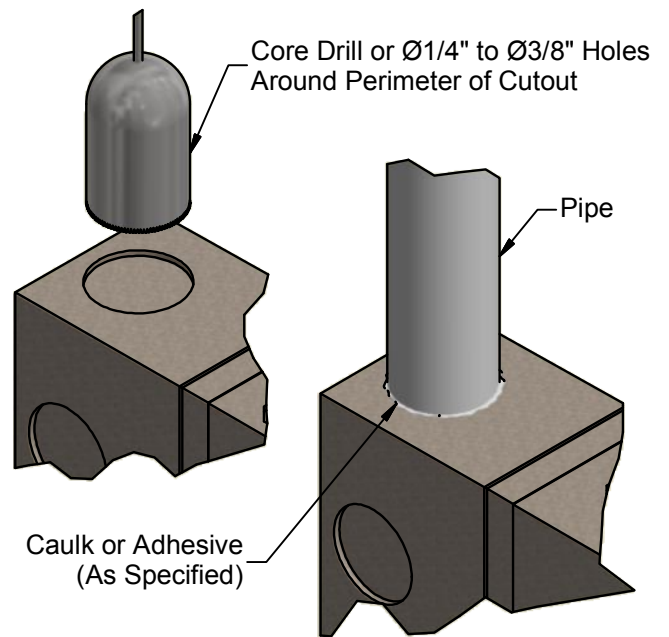


BILL OF MATERIAL	
ITEM	DESCRIPTION
1	PolyDrain® Channel
2	Pipe Stub Outlet Adaptor Plate
3	Plain End Plate
4	Pipe Insert Outlet Adapter Plate
5	Vertical PVC Outlet
6	Grate
7	Grate Frame (Optional)
8	Concrete Anchor Bolt
9	Toggle
10	Ø5/16" Flat Washer
11	Grate Retainer Bolt - Ø5/16-18
12	PolyClip I™ (Optional)
13	PolyClip II™ (Optional)
14	Rebar U-Leg (Optional)

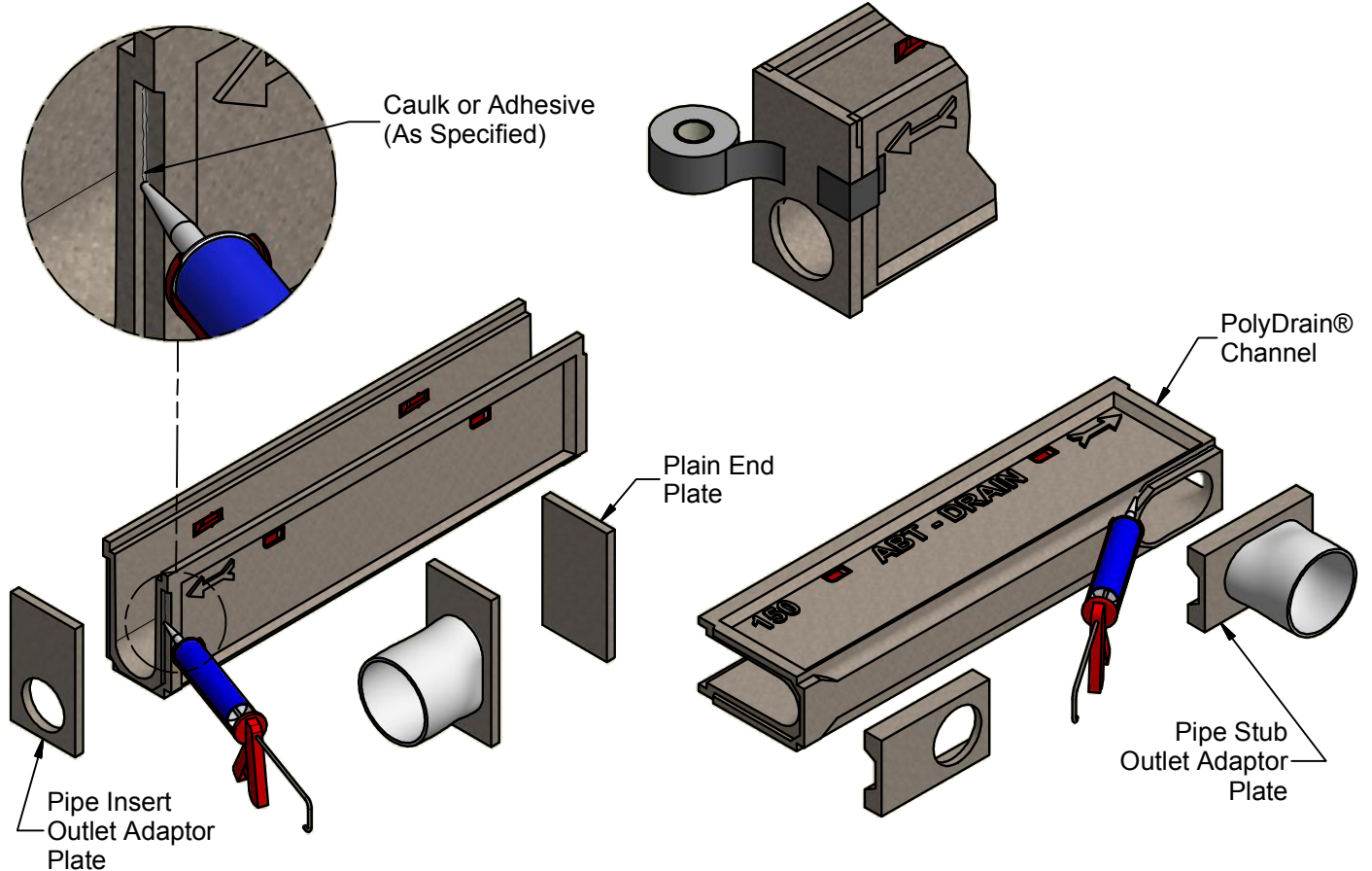
CHANNEL PREPARATION



1. FORMING MITER JOINTS



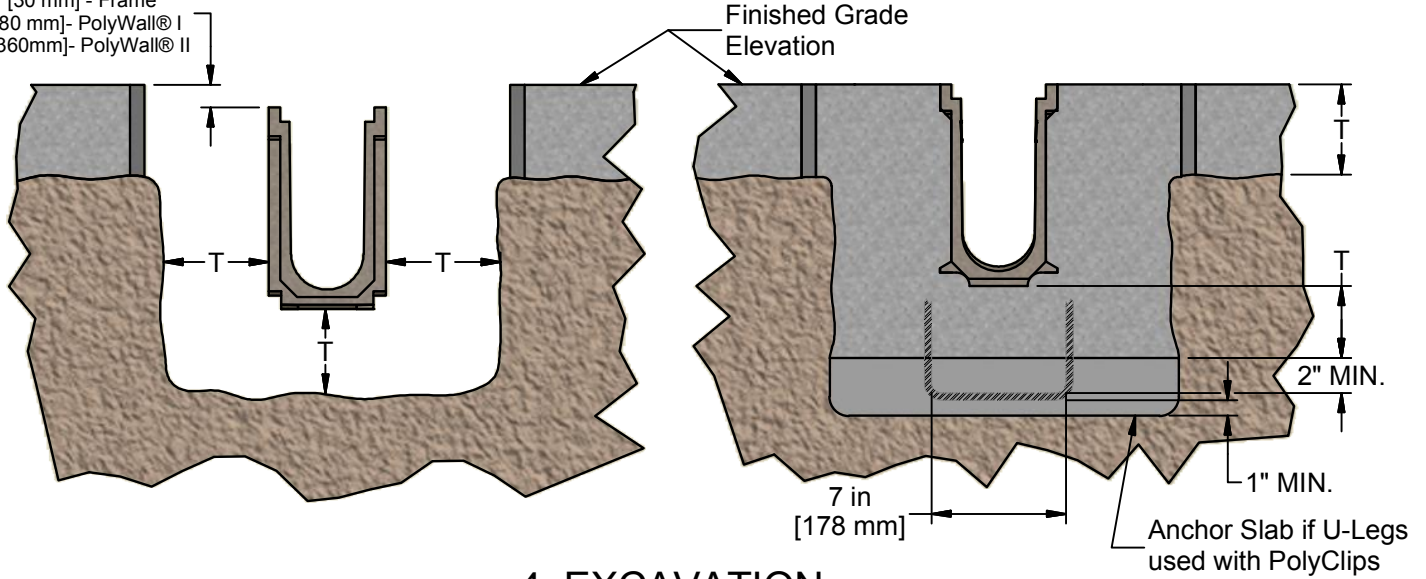
2. PIPE CONNECTION / PREFORMED CUTOUT REMOVAL



3. HORIZONTAL AND VERTICAL OUTLET/CLOSED END PLATES

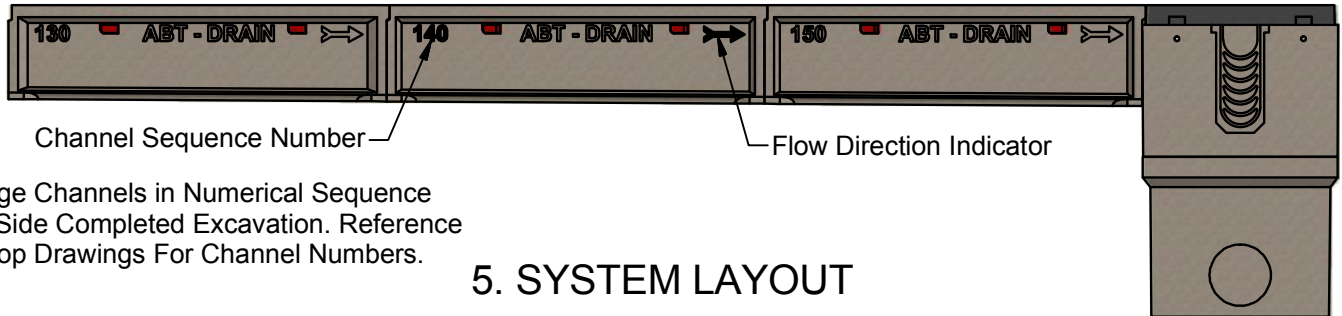
INSTALLATION PREPARATION

Add To Depth:
 1.18" [30 mm] - Frame
 7.07" [180 mm] - PolyWall® I
 14.17" [360mm] - PolyWall® II



4. EXCAVATION

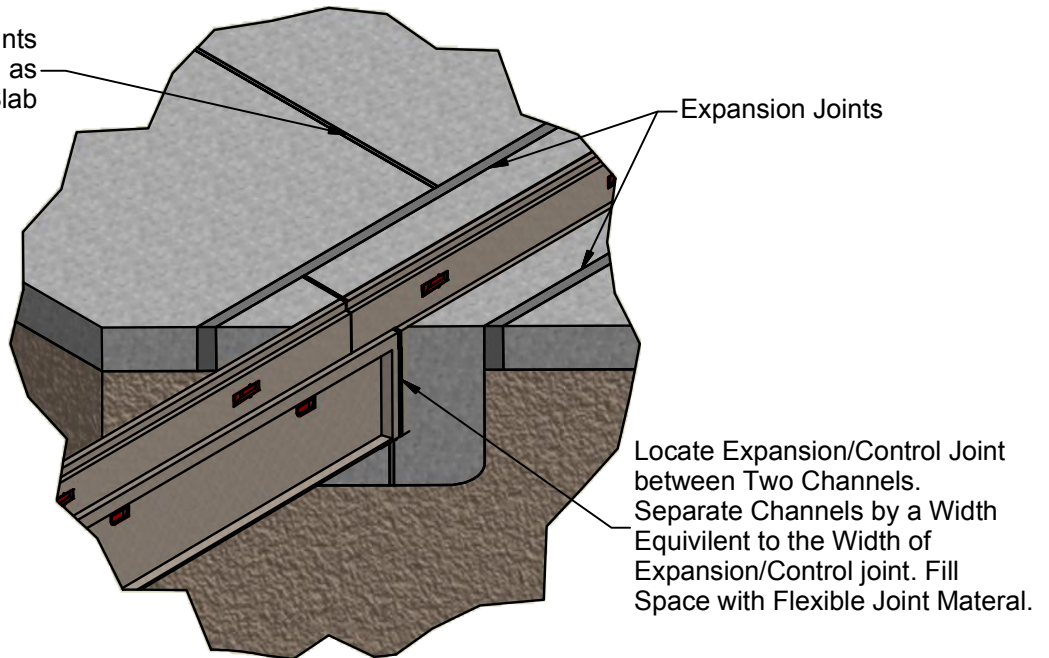
T = Per Structural Engineer, 4" [100 mm] Minimum



Stage Channels in Numerical Sequence
 Along Side Completed Excavation. Reference
 Shop Drawings For Channel Numbers.

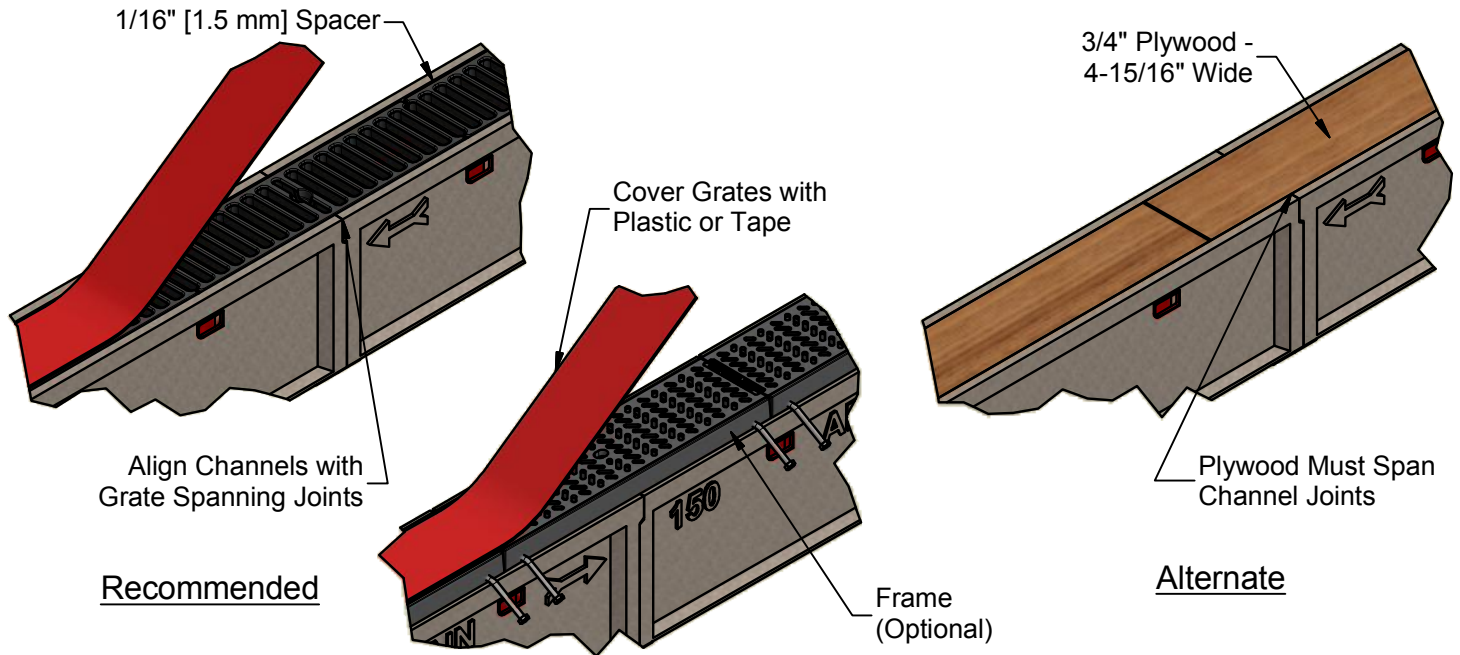
5. SYSTEM LAYOUT

Expansion and/or Control Joints
 with Quantity and Location as
 Required by Adjacent Slab

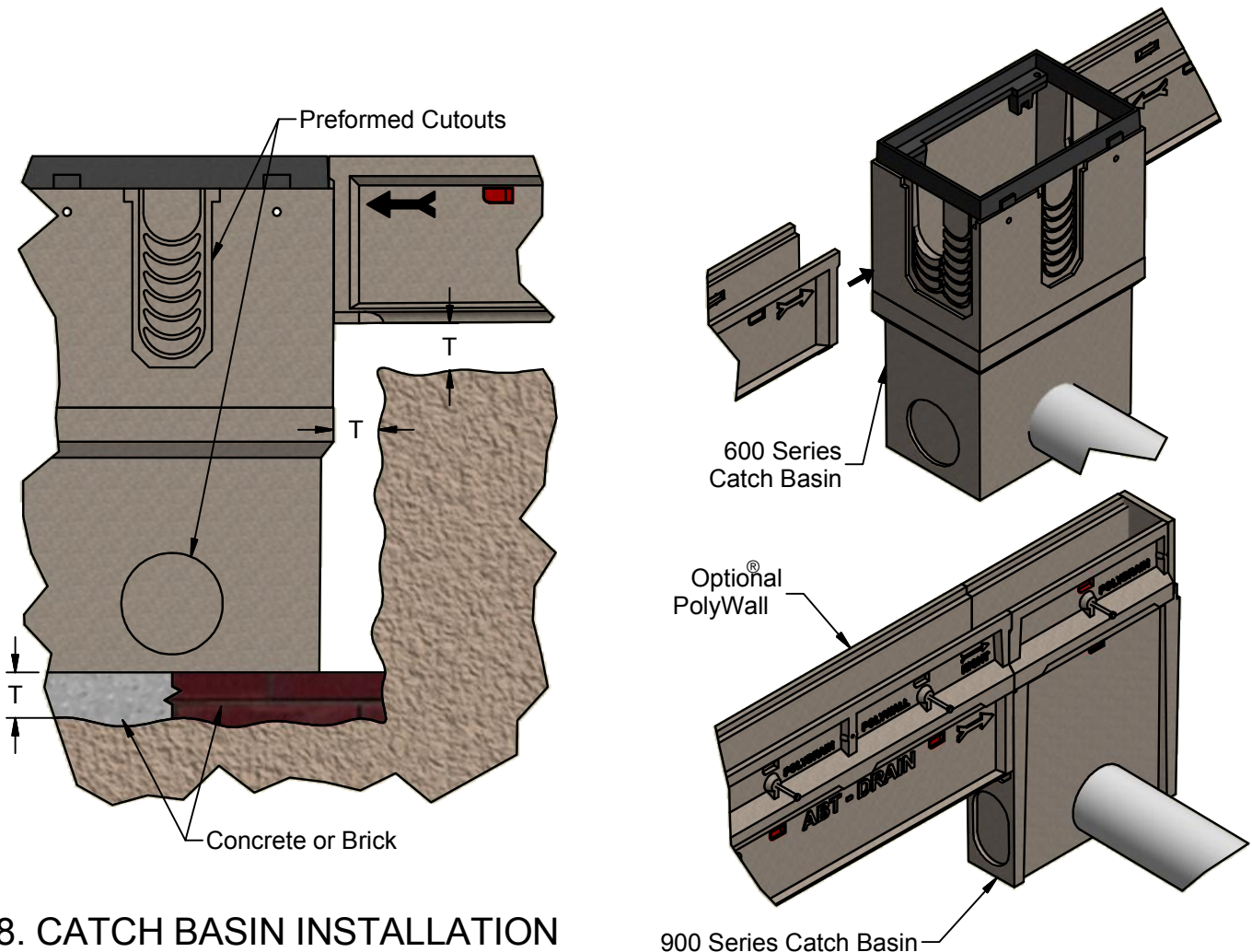


6. EXPANSION/CONTROL JOINTS

INSTALLATION PREPARATION



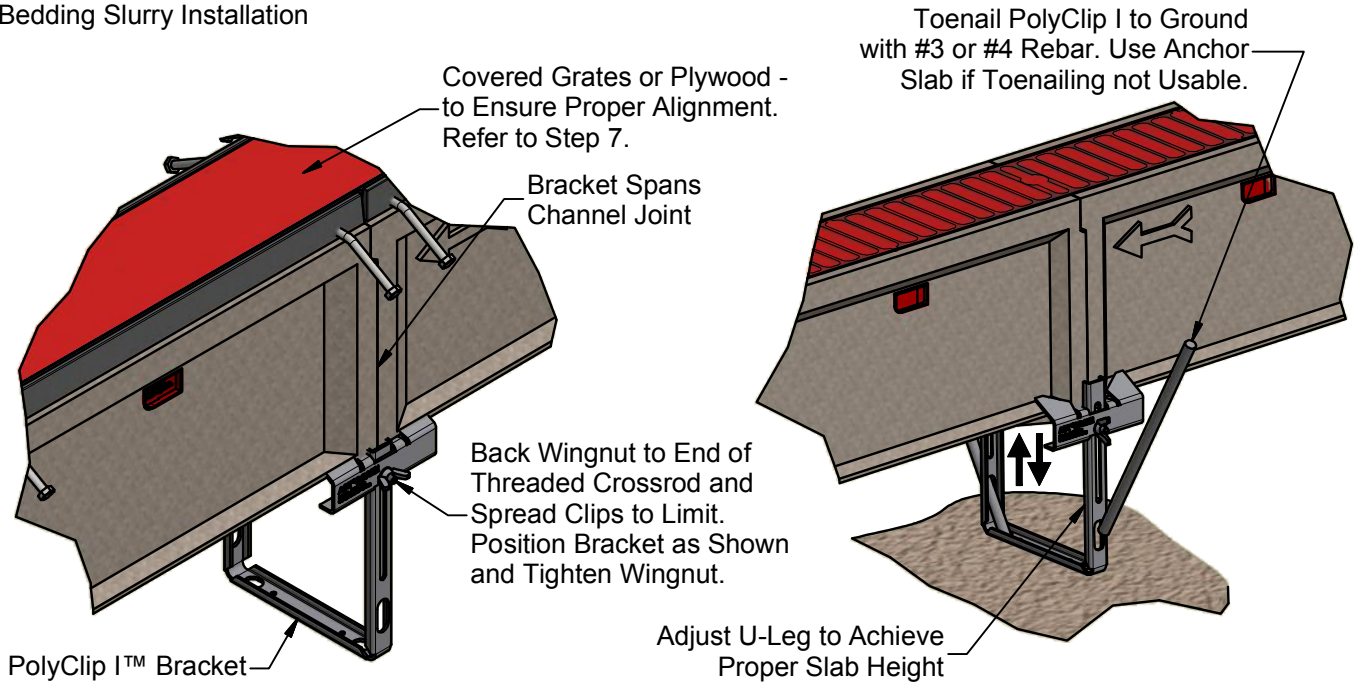
7. GRATE INSTALLTION PRIOR TO CONCRETING



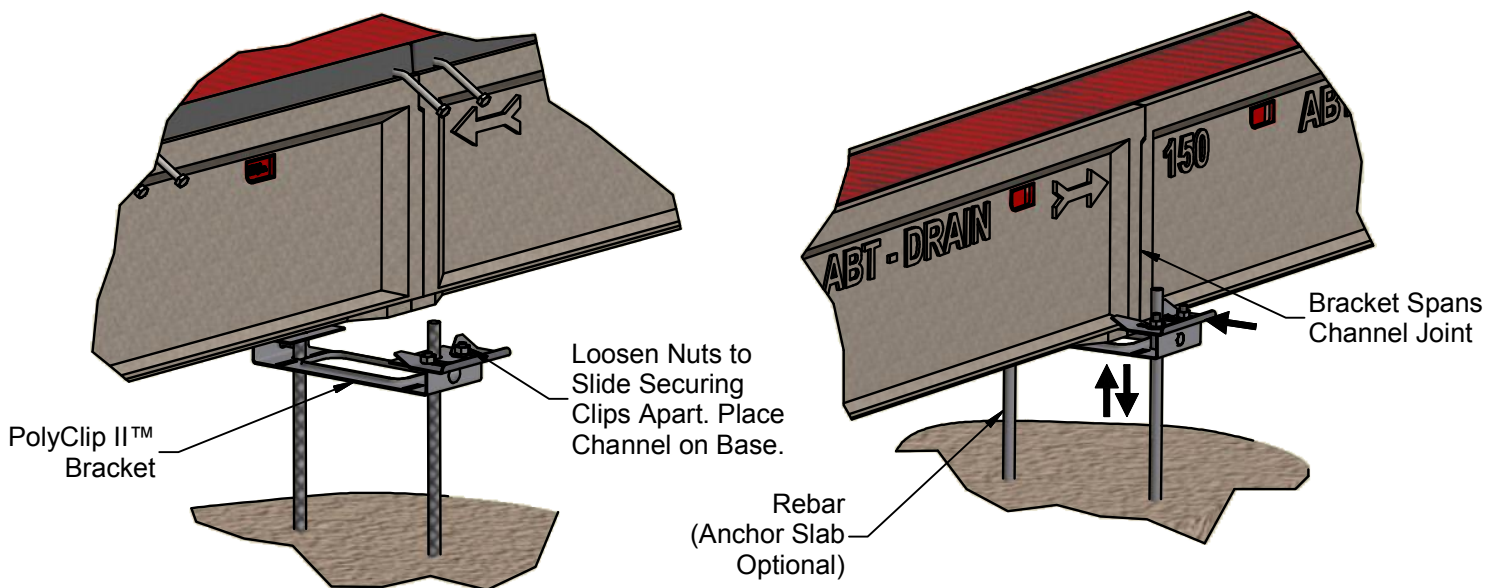
CHANNEL INSTALLATION

Important Installation Notes:

1. Begin Installation at Outlet/Discharge End and Work Backwards (Upstream).
2. Piping Connections, Catch Basin Installation, Miter Joint Assembly, and Trench Excavation Must be Completed Prior to Channel Installation.
3. Set String Line to Finished Slab Height at Outside Edge of Proposed Channel Location.
4. There are (4) Basic Methods of PolyDrain® Channel Installation:
 - A. PolyClip I Installation Device
 - B. PolyClip II Installation Device.
 - C. Suspended Installation
 - D. Bedding Slurry Installation

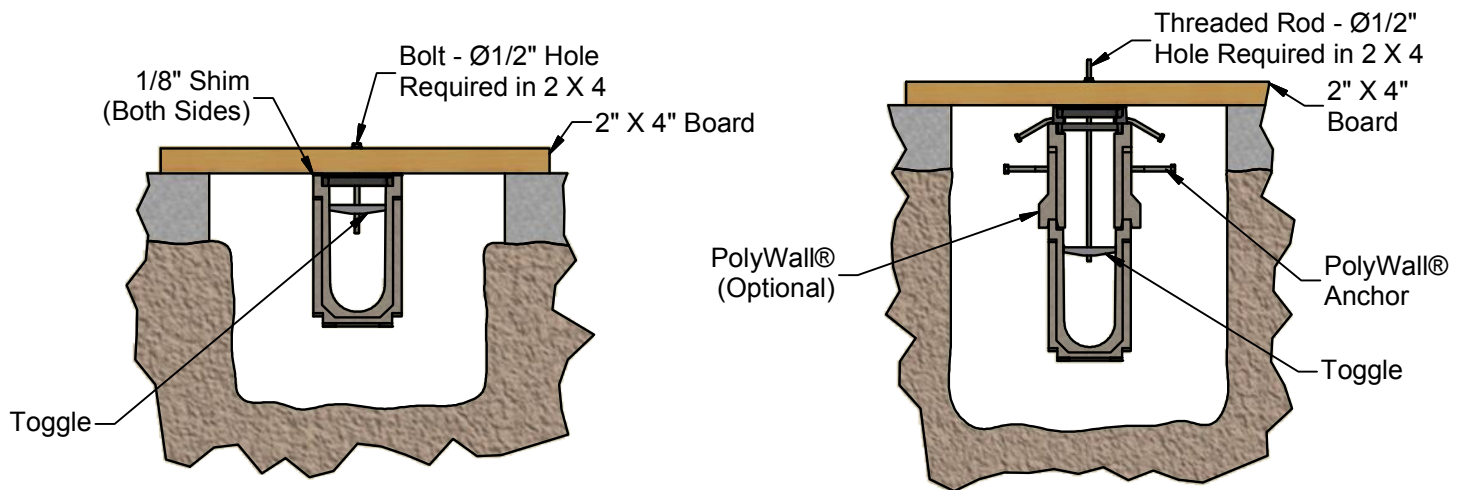


9A. CHANNEL INSTALLATION WITH POLYCLIP I™

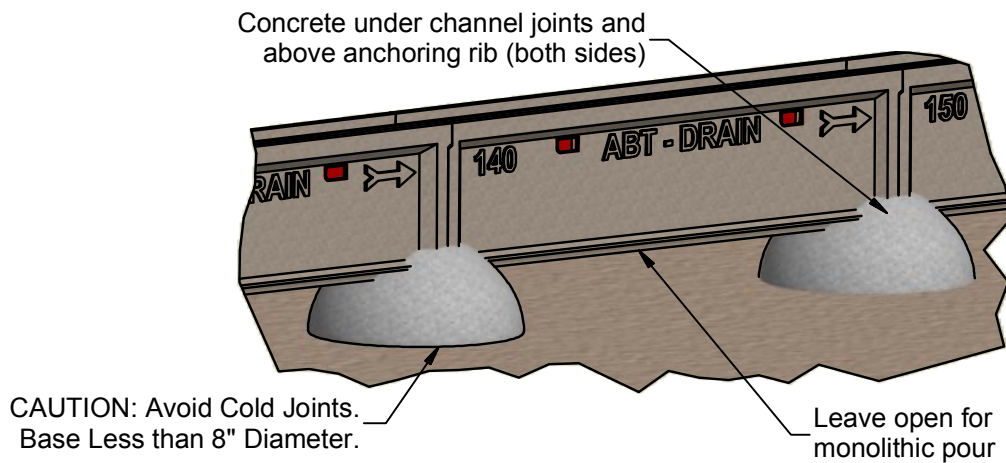


9B. CHANNEL INSTALLATION WITH POLYCLIP II™

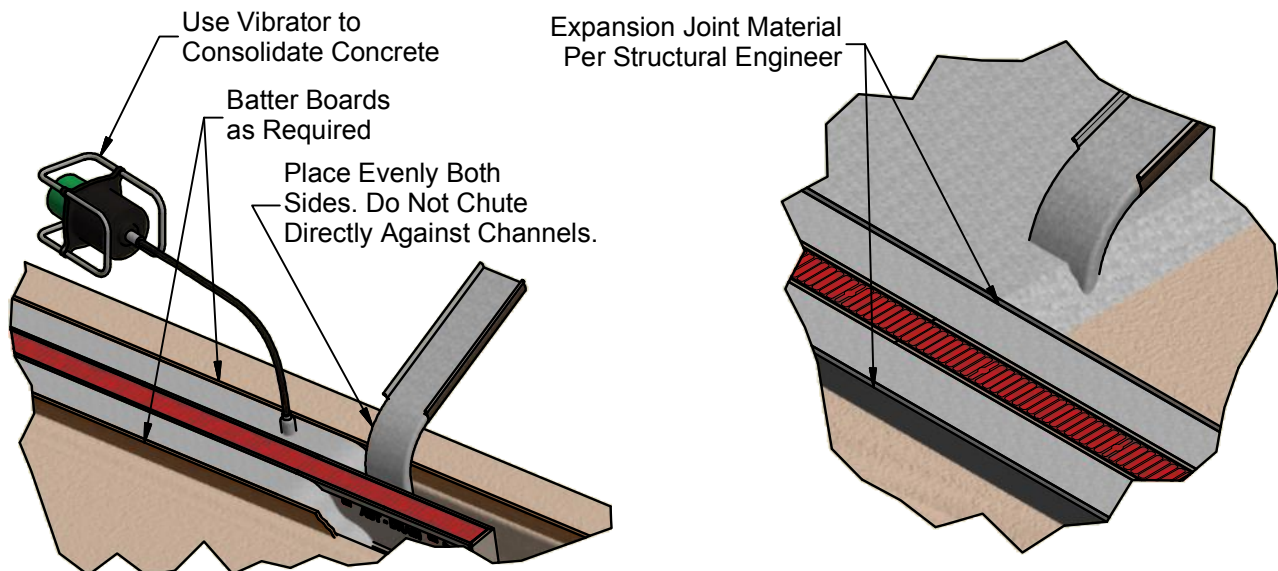
CHANNEL INSTALLATION



9C. CHANNEL INSTALLATION BY SUSPENSION METHOD



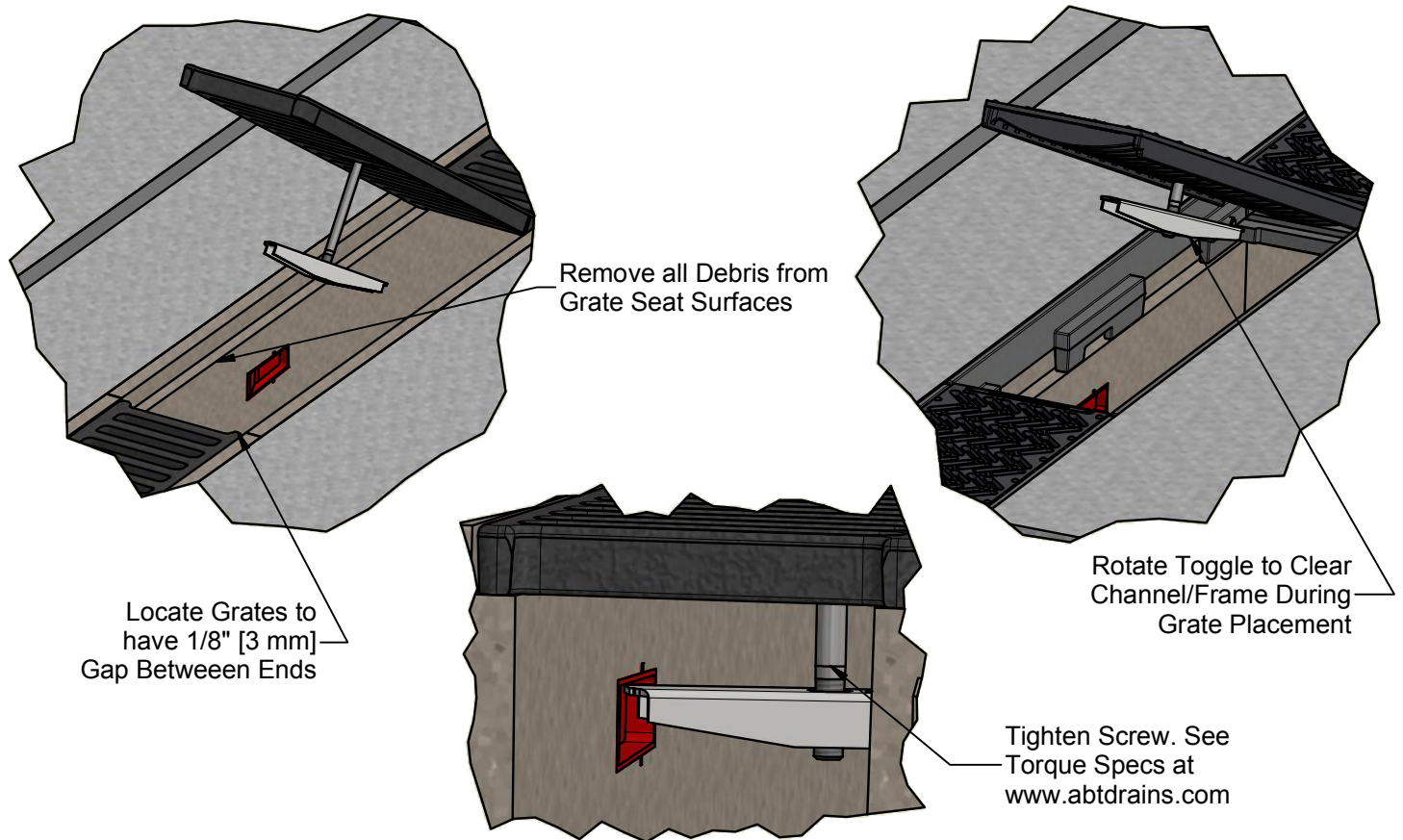
9D. CHANNEL INSTALLATION WITH BEDDING SLURRY



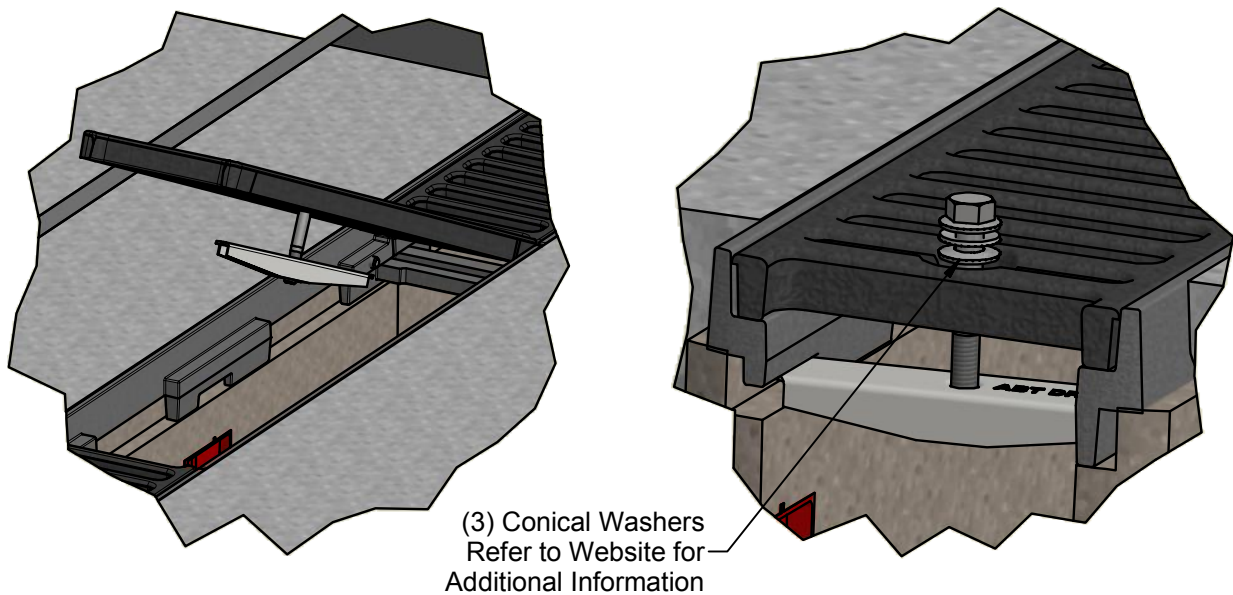
10. ENCAPSULATION CONCRETE PLACEMENT AND CONSOLIDATION

11. ADJACENT CONCRETE PLACEMENT

GRATE INSTALLATION



12A. GRATE INSTALLATION - TOGGLE & RED DOT[®]



12B. GRATE INSTALLATION - TOGGLE UNDER FRAME

