

Trench Former[®]

Pre-Engineered Cast In Place
Trench Drain Forming System

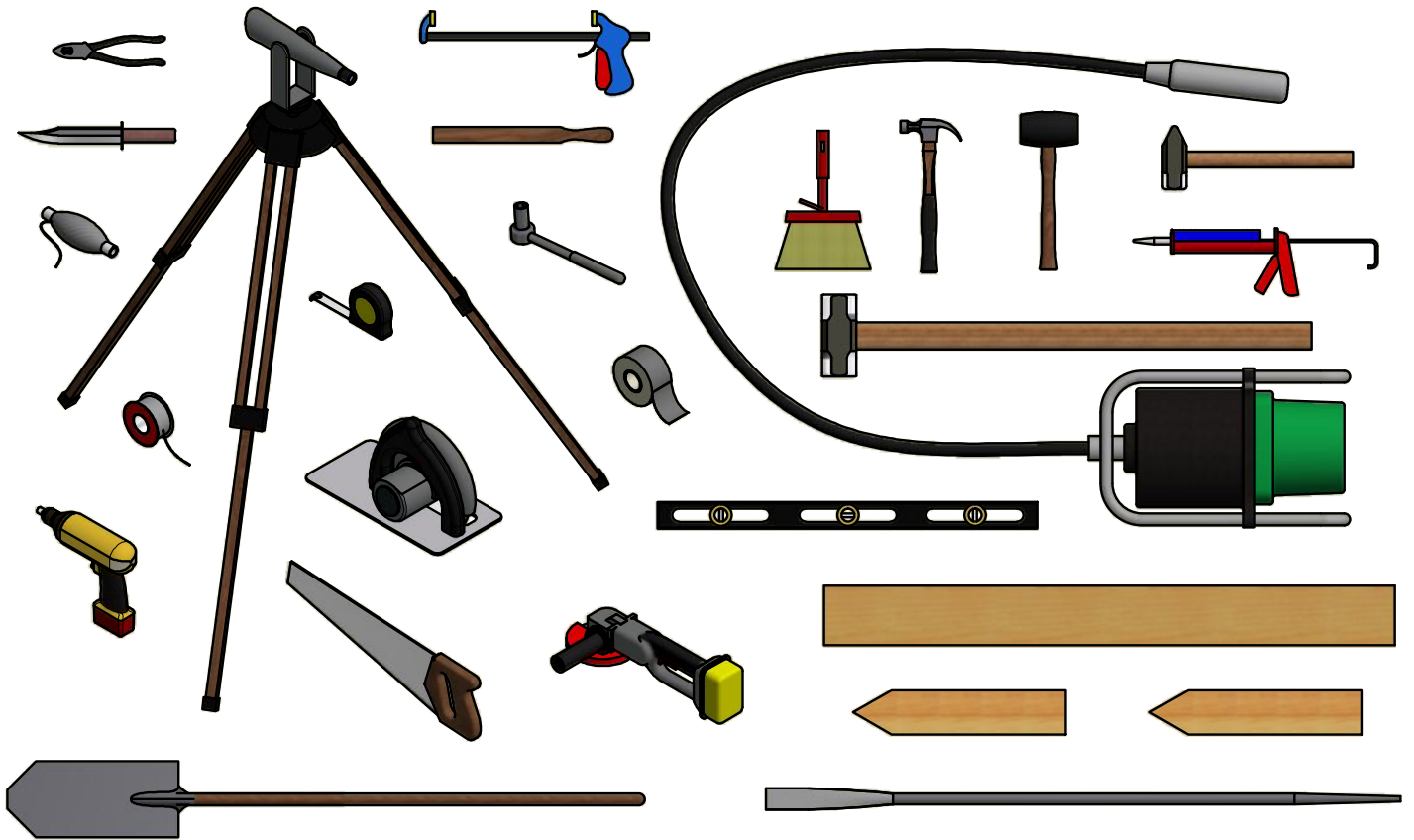


TFX[®] - Toggle Lock Installation Guide

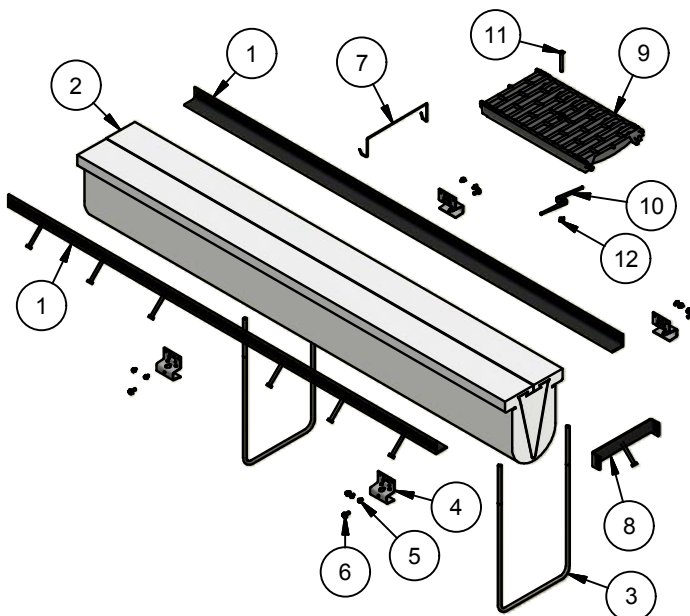
ABT[®], INC.

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Tel (704) 528-9806 - Fax (704) 528-5478 - www.abtdrains.com
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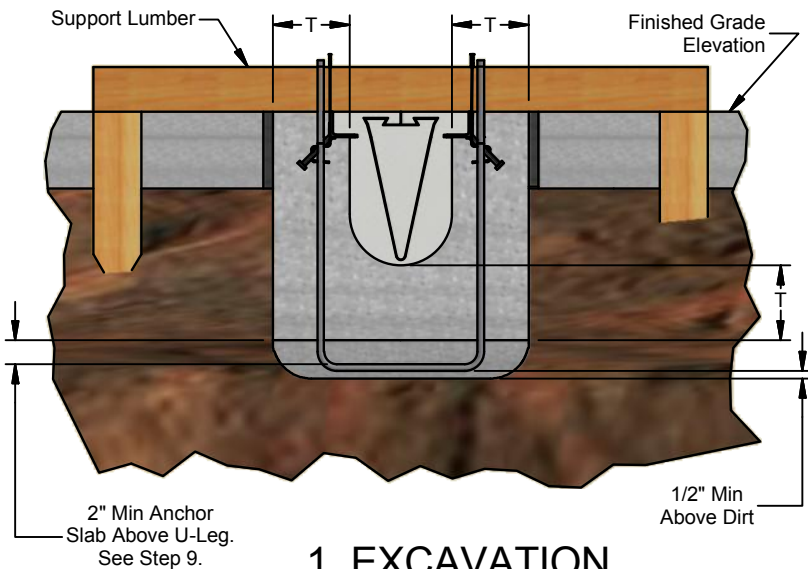
USEFUL OR REQUIRED TOOLS



COMPONENT IDENTIFICATION

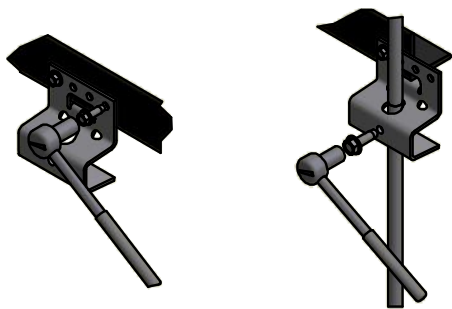


COMPONENTS	
ITEM	DESCRIPTION
1	Angle Frames/Rails
2	EPS Former
3	Rebar U-Leg
4	Leg Bracket
5	Assembly Screw - Ø1/4" x 3/8" Steel, Hex Head, Thread Forming
6	Rebar Leg Lock Screw - Ø5/16" x 3/4" Steel, Hex Head, Thread Forming
7	Cross Tie Wire Form
8	End Rail
9	Grate
10	Grate Retainer Toggle
11	Grate Retainer Screw and Washer - Ø5/16" UNC
12	Grate Retainer Nut - Ø5/16" Square Nut

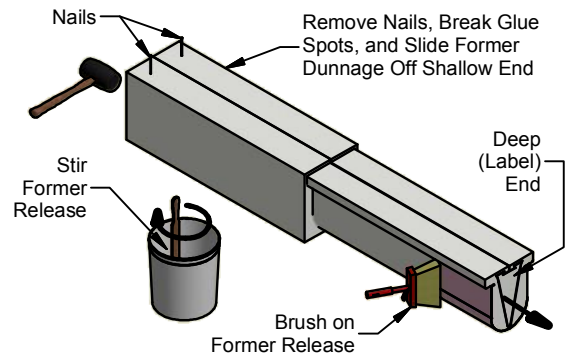


1. EXCAVATION

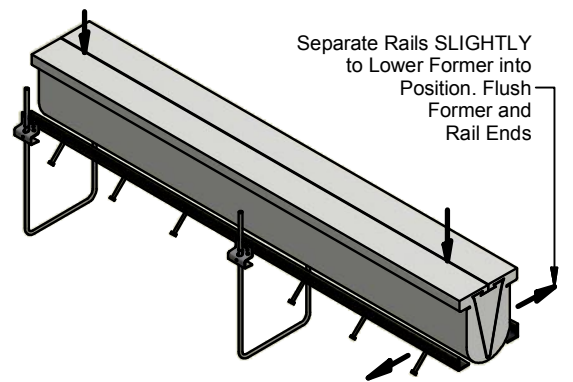
T = per Structural Specifications



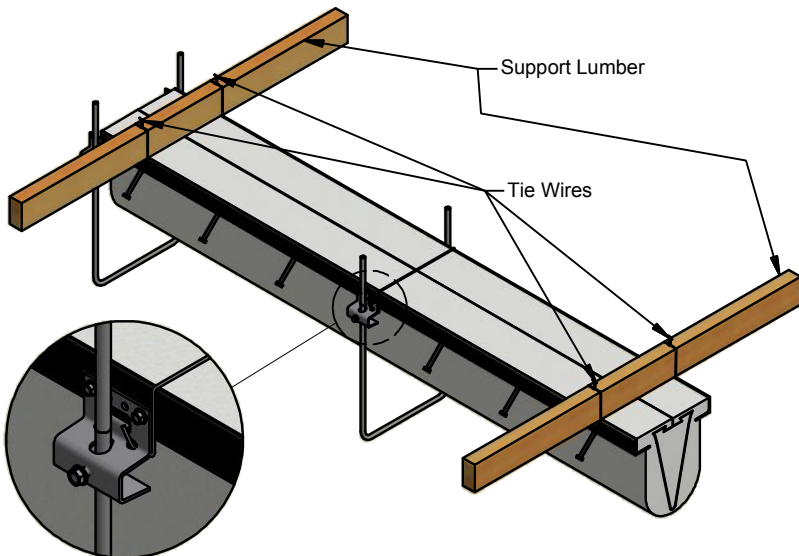
3. LEG ATTACH



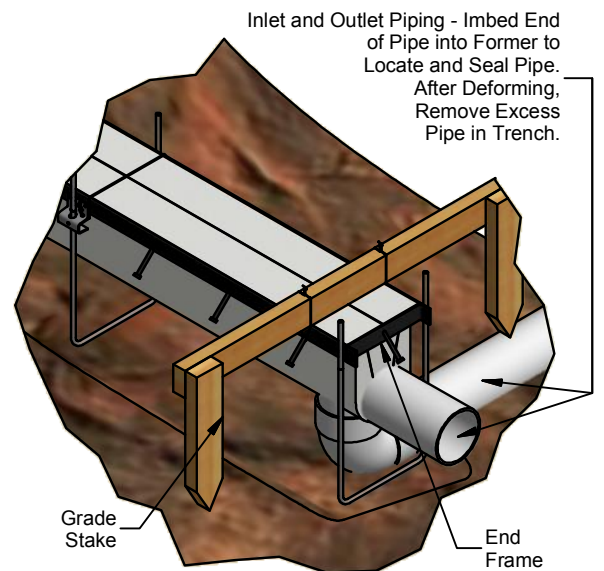
2. FORMER PREPARATION



4. FORMER / RAIL ASSEMBLY

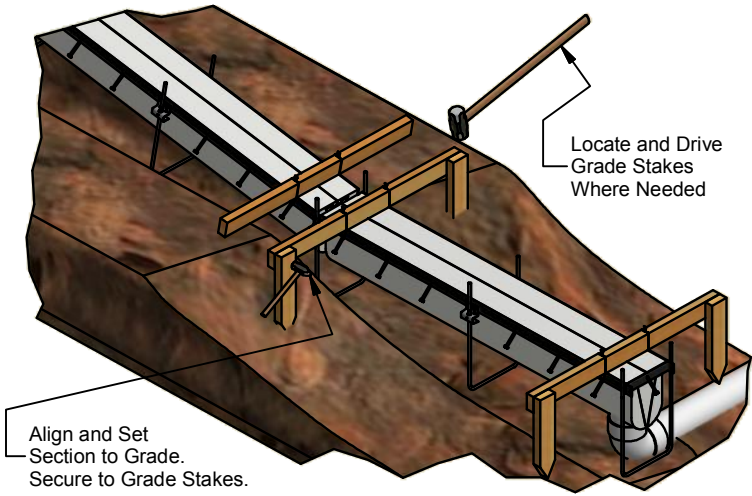


5. SUPPORT LUMBER ATTACH

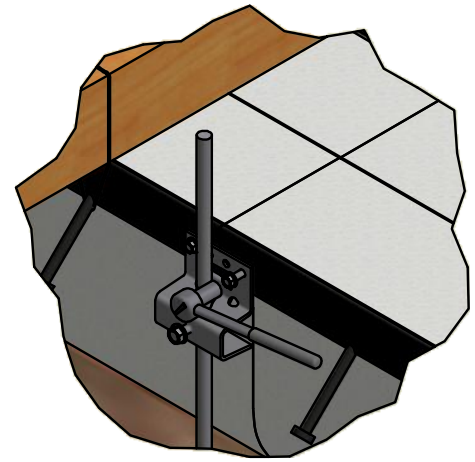


6. DISCHARGE PLACE & ALIGN

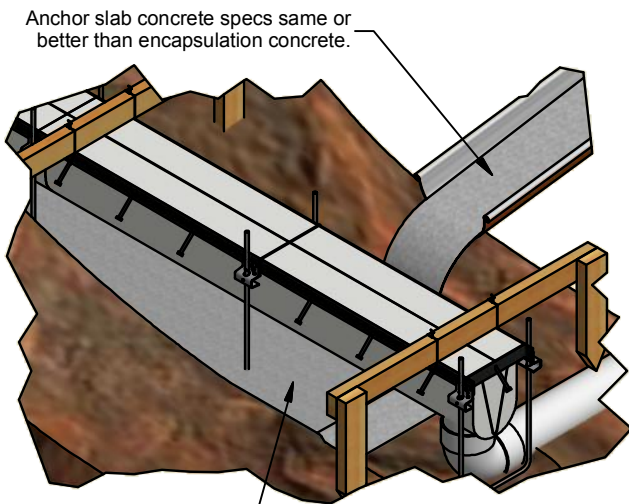
Locate and Align Outlet Channel First, Start at Deep End and Work to Shallow End



7. SECTION PLACE & ALIGN



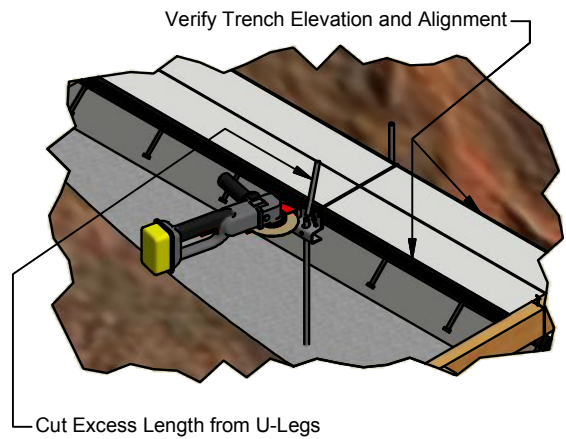
8. RAIL CONNECTION



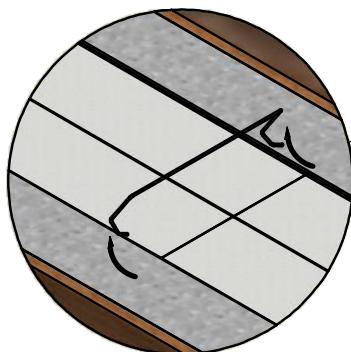
Anchor slab pour to achieve 70+% strength before encapsulation pour.

Anchor slab shall run full excavation width and trench length.

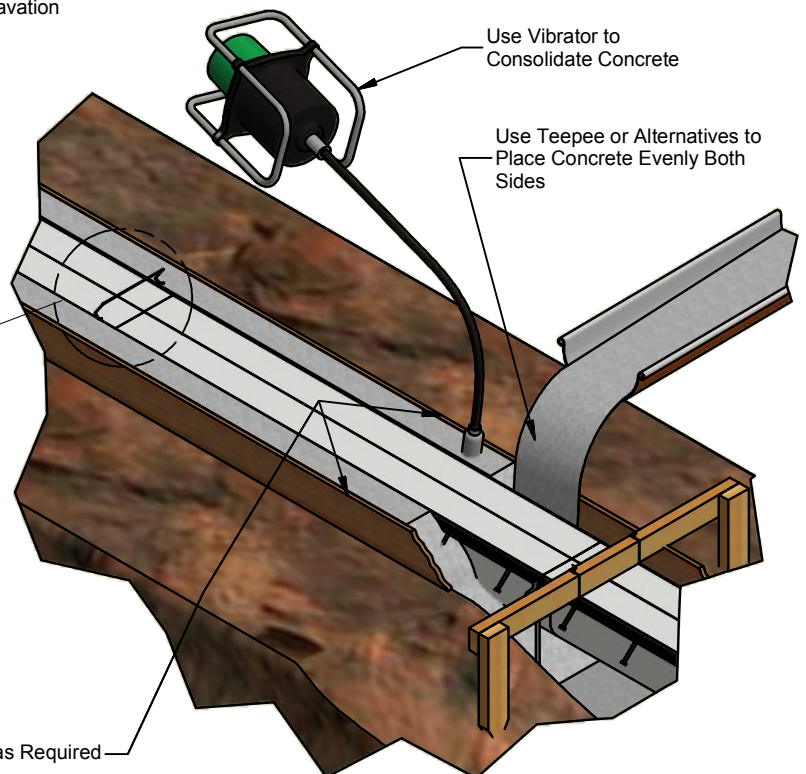
9. PLACE ANCHOR SLAB See Step 1 for Dimensions.



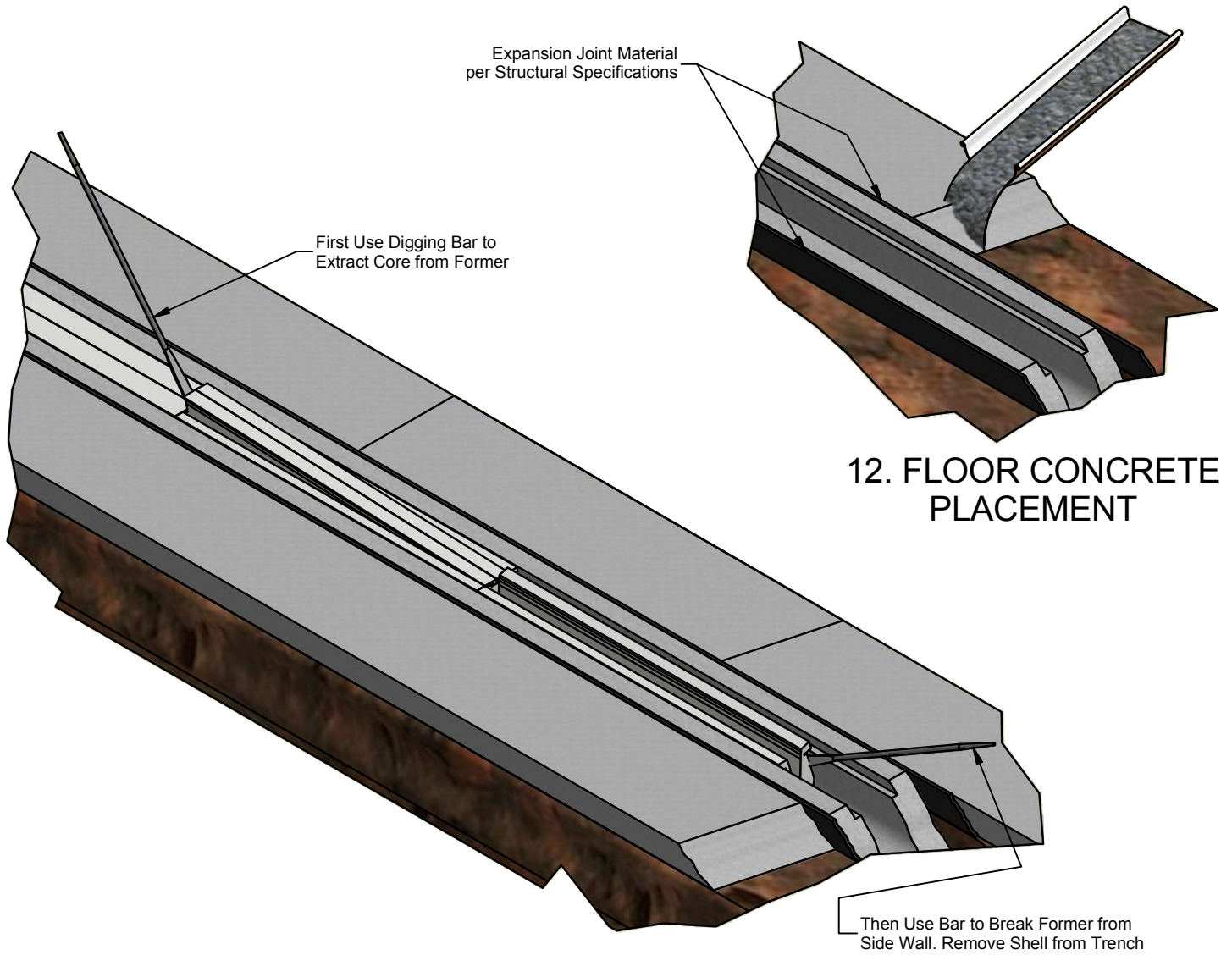
10. FINAL ALIGN & U-LEG TRIM



Remove Cross Ties Before Concrete Finishing

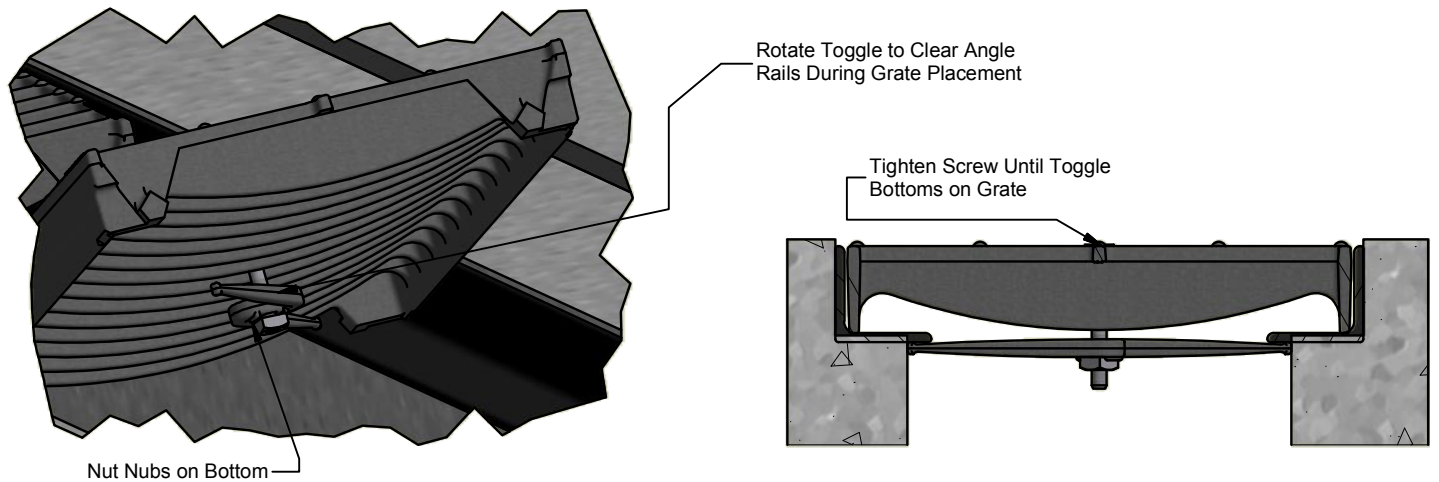


11. ENCAPSULATION CONCRETE PLACEMENT AND CONSOLIDATION



12. FLOOR CONCRETE PLACEMENT

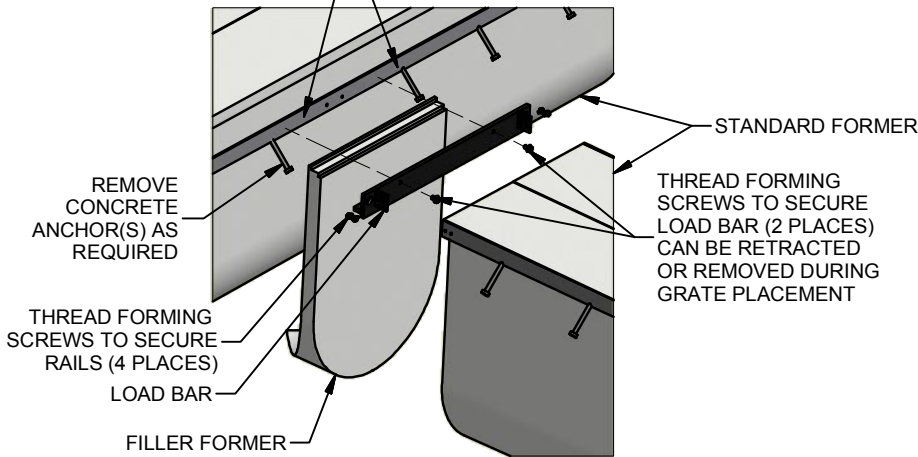
13. FORMER REMOVAL



14. GRATE INSTALLATION

AUXILIARY RAIL USAGE

DRILL (9/32" or "K") SCREW PILOT HOLES IN RAIL AS REQUIRED. USE HOLES IN LOAD BAR AS TEMPLATE FOR HOLE LOCATION.

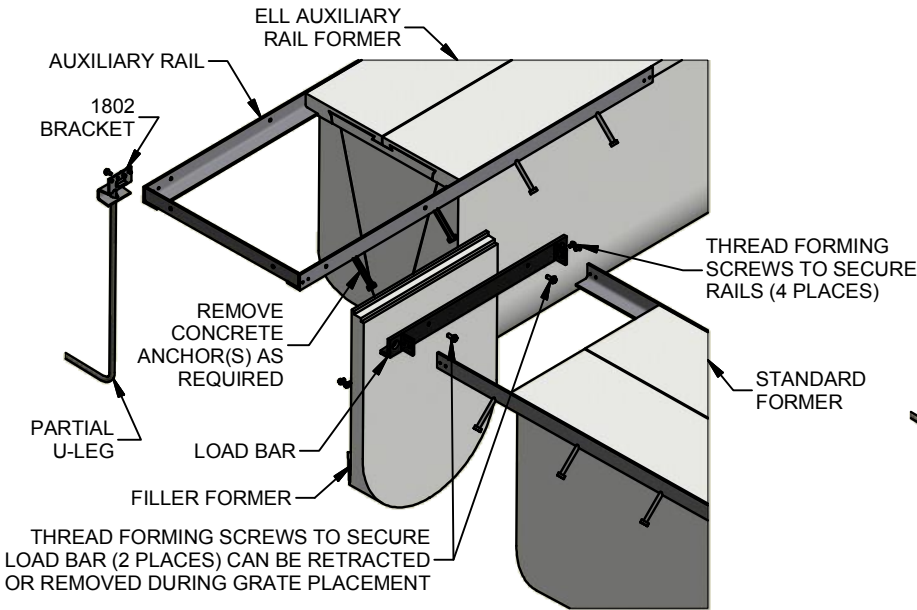


EXPLODED VIEW

TEE DETAIL



ASSEMBLED VIEW

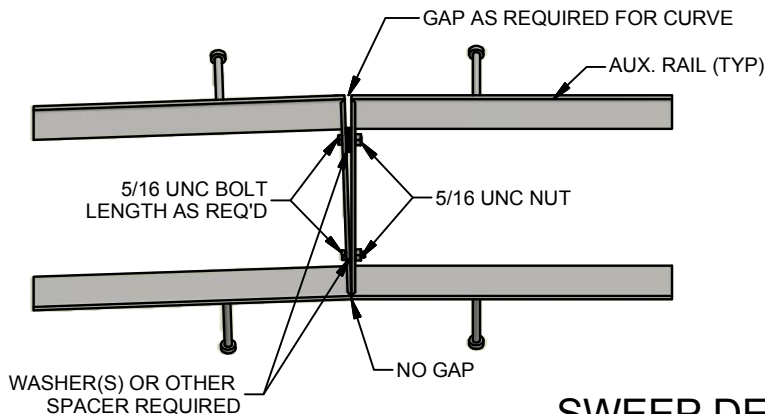


EXPLODED VIEW

ELL DETAIL



ASSEMBLED VIEW



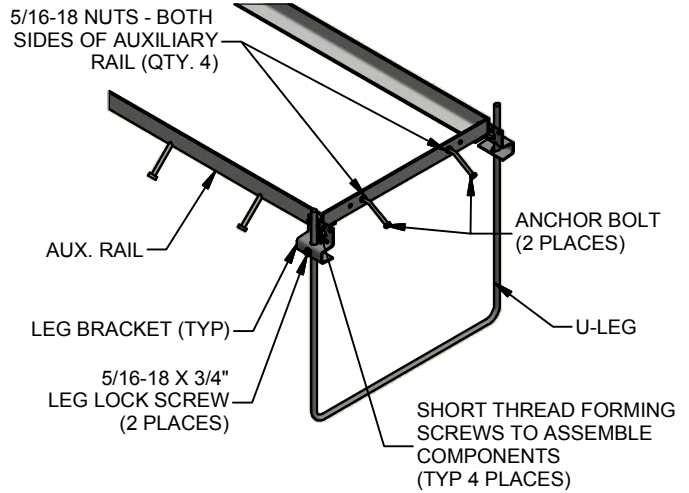
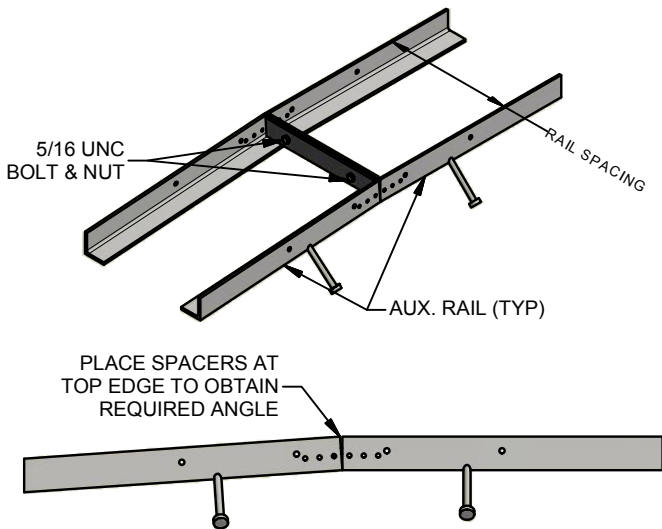
SWEEP DETAIL

NOTES:

1. INSTALL ANGLE ASSEMBLIES AS OFTEN AS REQUIRED TO PREVENT TRENCH RAILS FROM DEVIATING BEYOND DESIRED AMOUNT FROM TRUE RADIUS.
2. FILL ANY GAP AT END OF FORMER WITH FOAM-IN-PLACE FOAM OR COVER GAP WITH TAPE PRIOR TO FORMER RELEASE APPLICATION.
3. CALCULATE GAP PER ASSEMBLY IS AS FOLLOWS:

$$\text{GAP (INCH)} = \frac{\text{SPACING BETWEEN ANGLE ASSEMBLIES (INCH)} \times \text{RAIL SPACING (INCH)}}{\text{CURVE RADIUS (INCH)}}$$

AUXILIARY RAIL USAGE

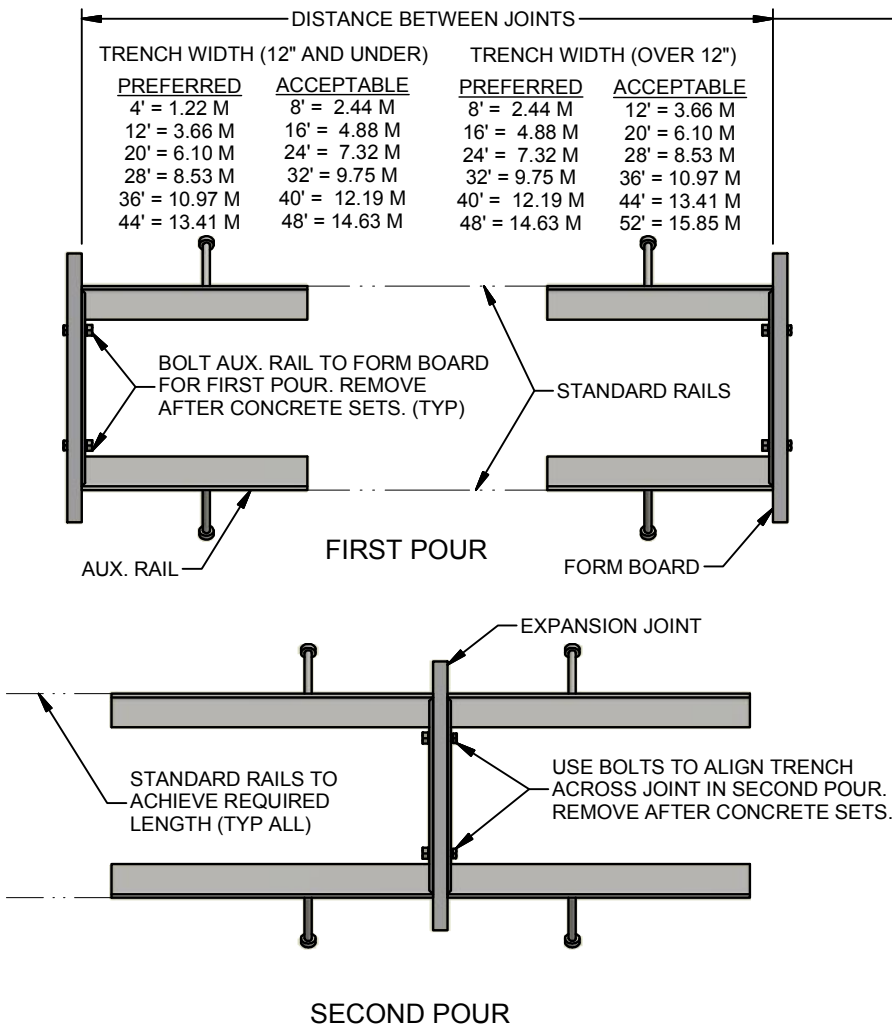


NOTES:

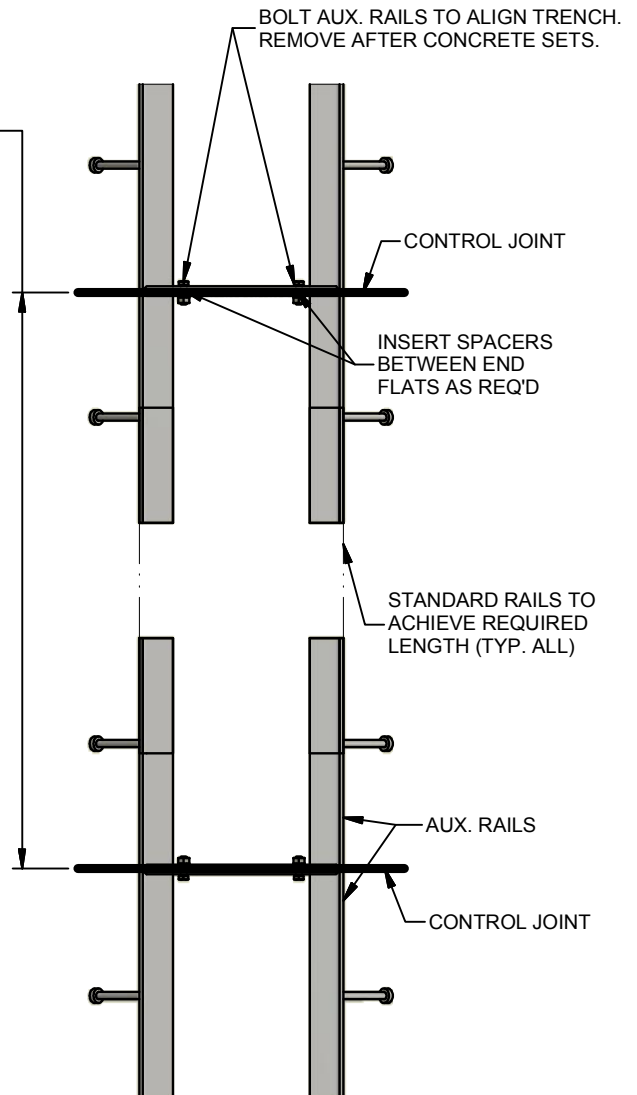
1. COORDINATE BREAK POINT OF SLOPE WITH POSSIBLE LOCATIONS OF AUXILIARY RAILS IN TRENCH RUN.
2. ADD OR REMOVE ESP FOAM AT END OF SECTIONS AT SLOPE BREAK AS REQUIRED.

END OF RUN DETAIL

SLOPE BREAK DETAIL



EXPANSION JOINT DETAIL



CONTROL JOINT DETAIL

Trench Former[®] TFX[®] Toggle Lock

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NOTES