Trench Former®

Pre-Engineered Cast In Place Trench Drain Forming System



TFX®- Toggle Lock Installation Guide

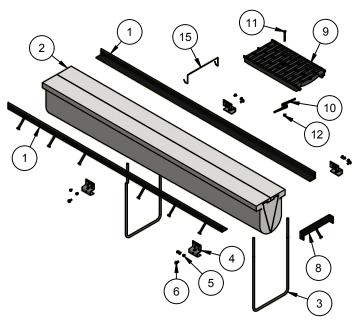


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USEFUL OR REQUIRED TOOLS



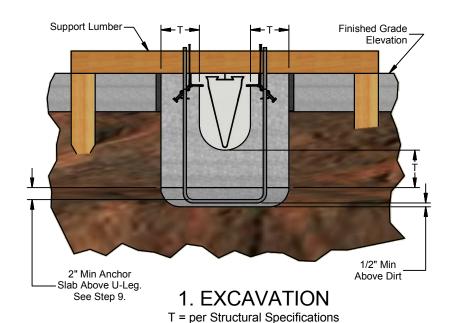
COMPONENT IDENTIFICATION

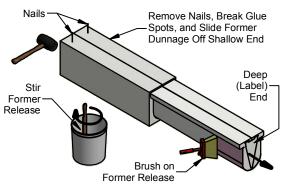


| COMPONENTS | |
|------------|---|
| ITEM | DESCRIPTION |
| 1 | Angle Frames/Rails |
| 2 | EPS Former |
| 3 | Rebar U-Leg |
| 4 | Leg Bracket |
| 5 | Assembly Screw - Ø1/4" x 3/8" Steel, Hex Head, |
| | Thread Forming |
| 6 | Rebar Leg Lock Screw - Ø5/16" x 3/4" Steel, Hex |
| | Head, Thread Forming |
| 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 |
| 15 | |

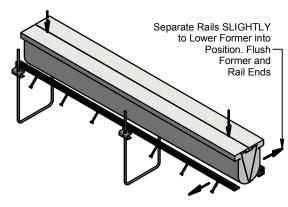
Some products sold by ABT contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Products sold by ABT may contain these chemicals in a smaller amount than Proposition 65's concern, or not at all, however, we have chosen to issue this warning on all of our products as an act of caution and because our customers have the right to know.

MARNING: These products can expose you to chemicals such as nickel, lead, chromium, cobalt, styrene, methylene chloride, or silica, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

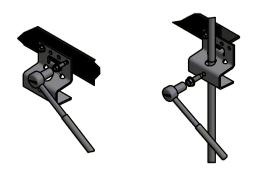




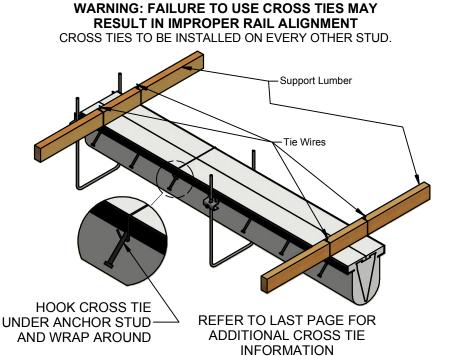
2. FORMER PREPARATION



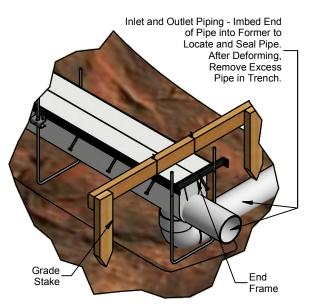
4. FORMER / RAIL ASSEMBLY



3. LEG ATTACH

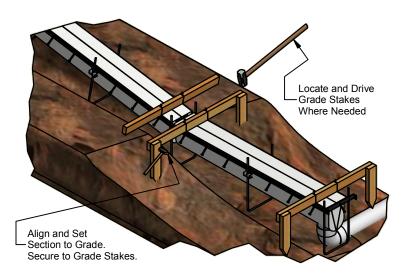


5. SUPPORT LUMBER ATTACH



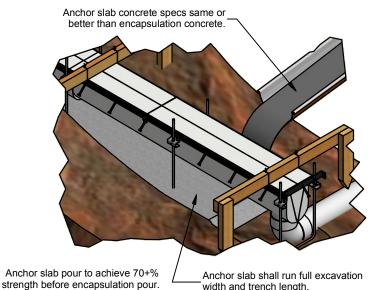
6. DISCHARGE PLACE & ALIGN

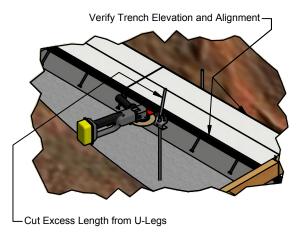
Locate and Align Outlet Channel First, Start at Deep End and Work to Shallow End



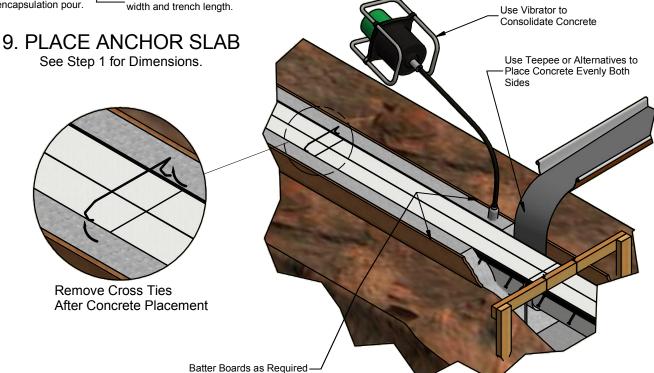
7. SECTION PLACE & ALIGN

8. RAIL CONNECTION

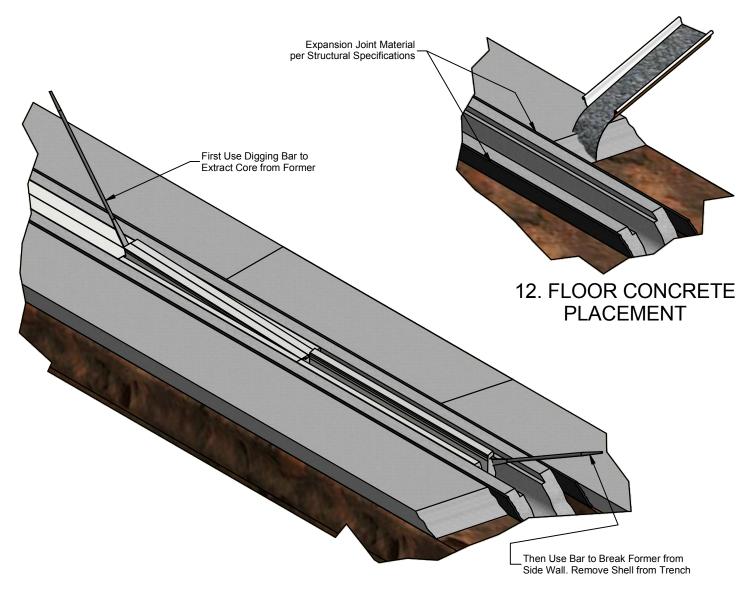




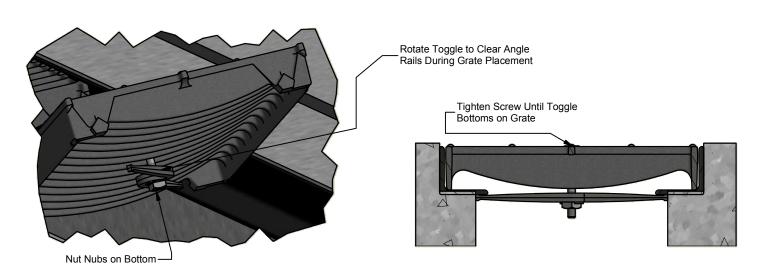
10. FINAL ALIGN & U-LEG TRIM



11. ENCAPSULATION CONCRETE PLACEMENT AND CONSOLIDATION

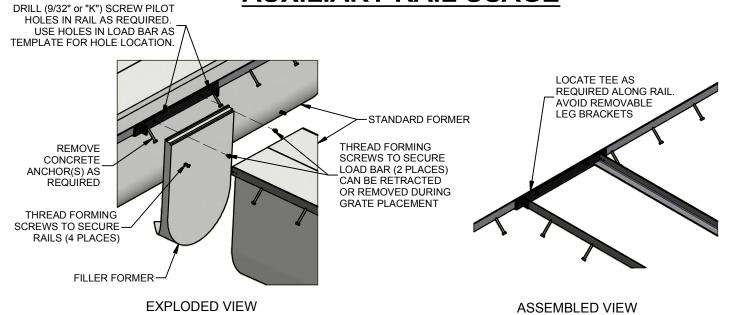


13. FORMER REMOVAL

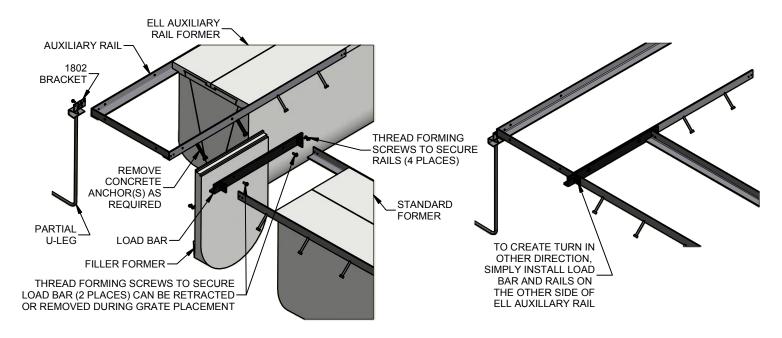


14. GRATE INSTALLATION

AUXILIARY RAIL USAGE

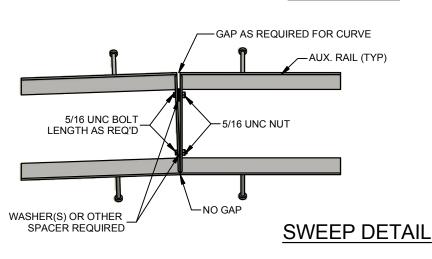


TEE DETAIL



EXPLODED VIEW

ELL DETAIL



ASSEMBLED VIEW

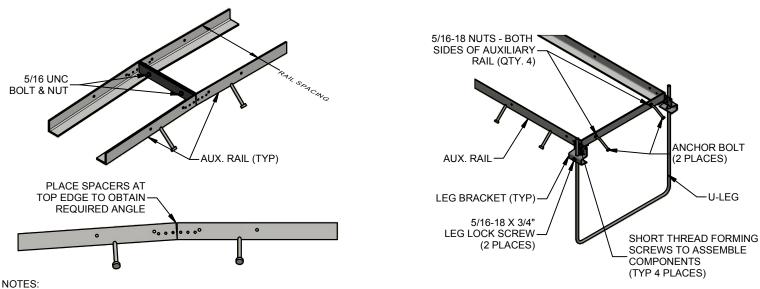
NOTES:

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 RELASE APPLICAION.
3. CALCULATE GAP PER ASSEMBLY IS AS FOLLOWS:

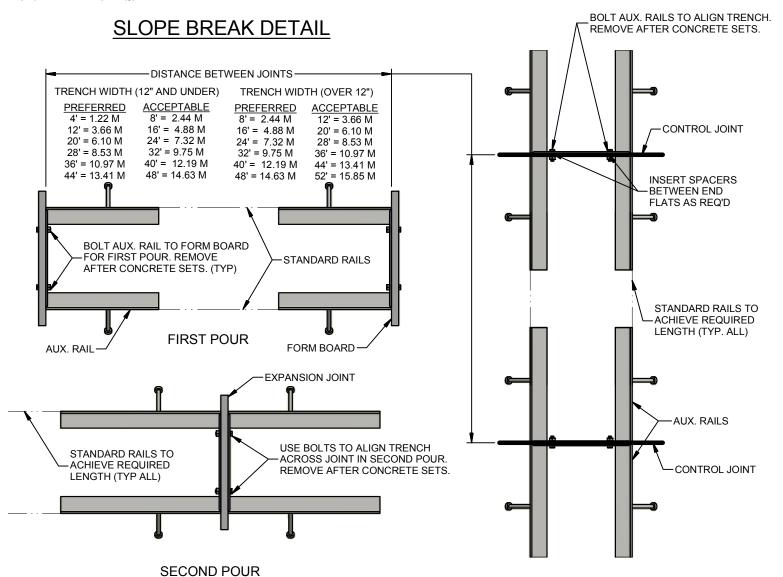
GAP (INCH) = SPACING BETWEEN ANGLE ASSEMBLIES (INCH) * RAIL SPACING (INCH) / CURVE RAIDUS (INCH).

AUXILIARY RAIL USAGE



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

END OF RUN DETAIL



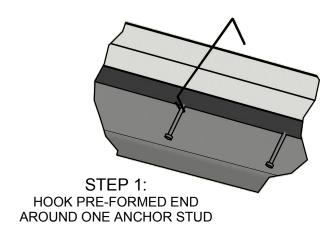
EXPANSION JOINT DETAIL

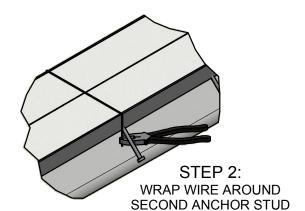
CONTROL JOINT DETAIL

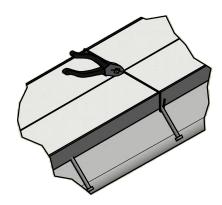
WARNING: FAILURE TO USE CROSS TIES MAY RESULT IN IMPROPER RAIL ALIGNMENT

IF NO ABT PRE-FORMED CROSS TIES ARE ORDERED, INSTALLER IS RESPONSIBLE FOR SECURING RAILS TOGETHER USING TRADITIONAL REBAR TIE WIRES OR OTHER METHOD. CROSS TIES SHALL BE INSTALLED ON EVERY OTHER ANCHOR STUD.

CROSS TIE #1







STEP 3: CUT CROSS TIE IN CENTER TO REMOVE WHILE CONCRETE IS CURING

CROSS TIE #2

