











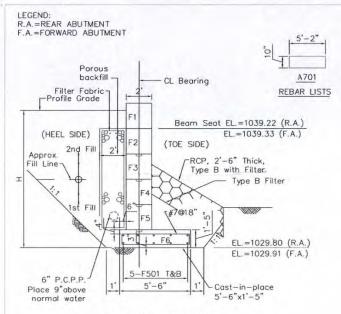
BEFORE & AFTER (LARGE CULVERT)



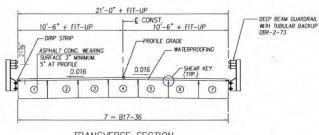


- Large Culvert
 - Pipe Culvert
 - Elliptical
 - Box Culvert
- Bridges
 - 10 year flood (Check 100 year)
 - ADT ≡ Design Speed, Minimum Width,
 Shoulder Width
 - Spread Footing
 - Can be on Capped Pile Abutment
 - Deck Width Multiple of 3' Wide Beam





SPREAD FOOTING



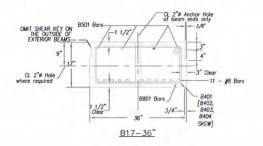
TRANSVERSE SECTION PLA-TR182-00.37

1. STAINLESS STEEL DRIP STRIP FOR DRIP STRIP DETAILS REFER TO STD. DWG. DS-1-92. NOTE:

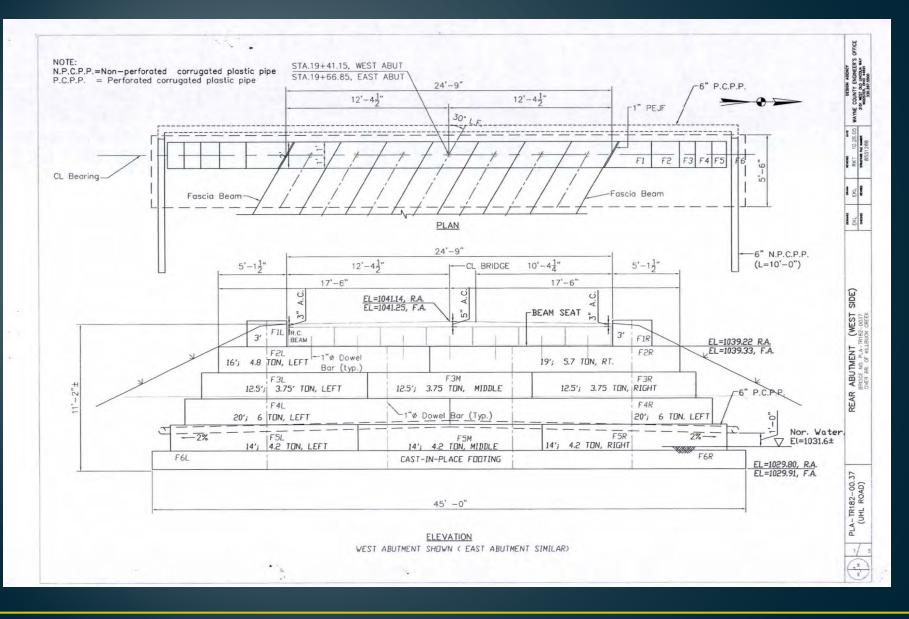
FILL 1/3 HEIGHT OF KEYWAY WITH MORTAR BEFORE PLACING THE NEXT UPPER SECTION

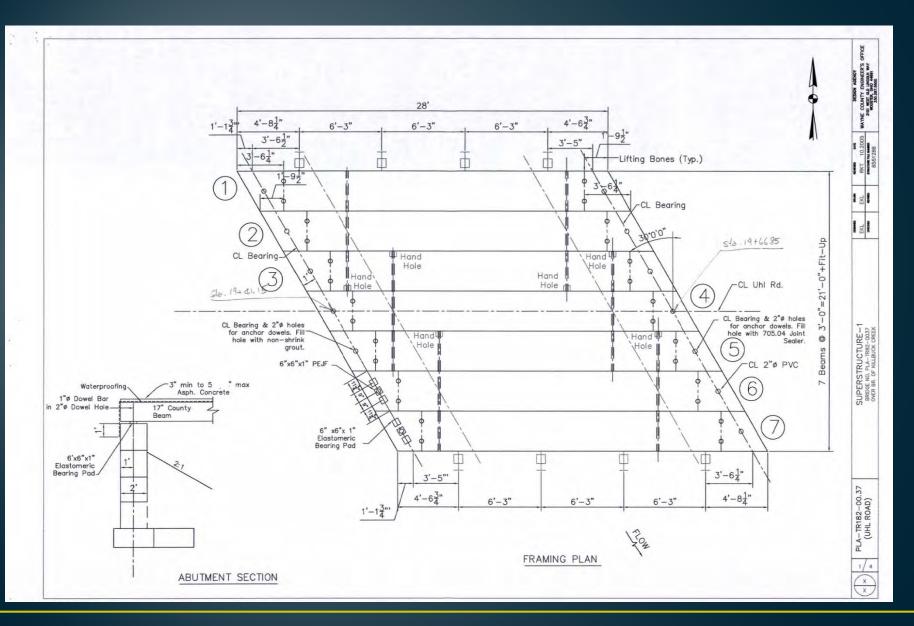
PROCEDURES:

- Level footer base to receive cast—in—place footing F6. Locate and set 4"Ø PVC pipes and keyways.
- Insert 1"ø dowel bars into footer F6.
- Apply Grout over keyways and set F5 footers. Align with 1"ø rebar and match 4"ø dowel holes. Grout.
- Apply Grout over keyways and set F4 footers, Align with 1"ø rebar and match 4"ø dowel holes. Grout.
- Apply Grout over keyways and set F3 footers. Align with 1"ø rebar and match 4"ø dowel holes. Grout.
- Apply Grout over keyways and set F2 footers. Align with 1"ø rebar and match 4"ø dowel holes. Grout.
- Backfill passive earth (toe side) and active earth + porous backfill (heel side) simultaneously to the same elevation. May place R.C.P. on the toe side at this time.
- Repeat steps 1 to 7 for the second abutment.
- Set concrete box beams on 6"x6"x1" bearing pads after step 1 to 7 had been performed for both abutments. (Drill dowel holes on F2 to receive box beam dowel bars)
- 11. Install porous backfill with filter fabric to 1'-0" below finish grade.
- Backfill to beam seat or top of deck beams.
- Install waterproofing, drip strip, sealing concrete surfaces and overlay with asphalt.
- 14. Install guardrail by others.



ABUTMENT - SUPERSTRUCTURE
BRIDGE NO. PLA. TRB2-0337
OVER BR. DF MULLINGS CREEK





PRECASTING

- Bridges
 - Rebar Assembly
 - Rebar Rack
 - Beam Form
 - Concrete Delivery
 - Pouring Concrete
 - Finished Product
 - Lifting Beam (20 Ton)
 - Quality Control



PRECASTING

- Bridge Abutment
 - Assembled Rebar
 - Similar Casting Process











