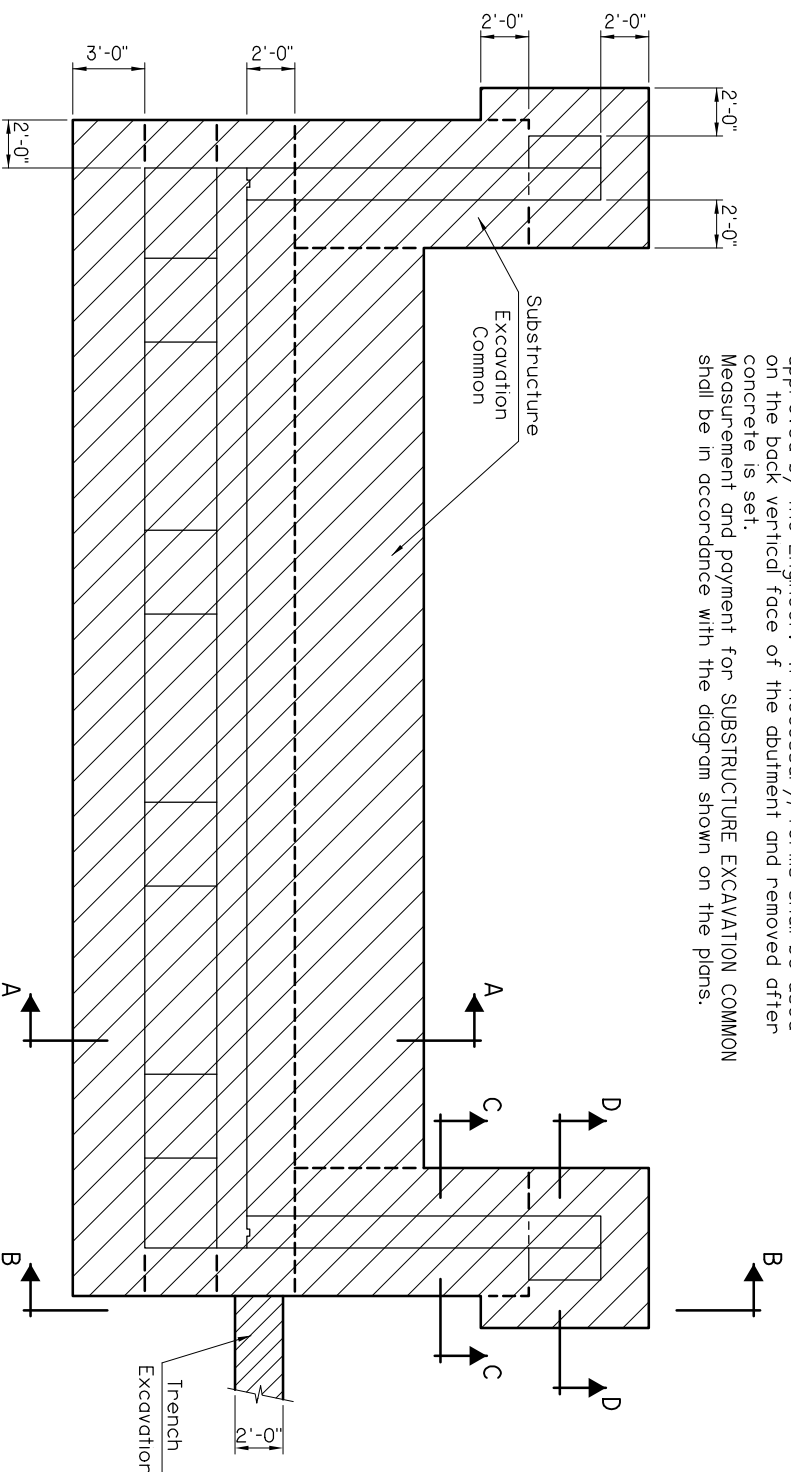
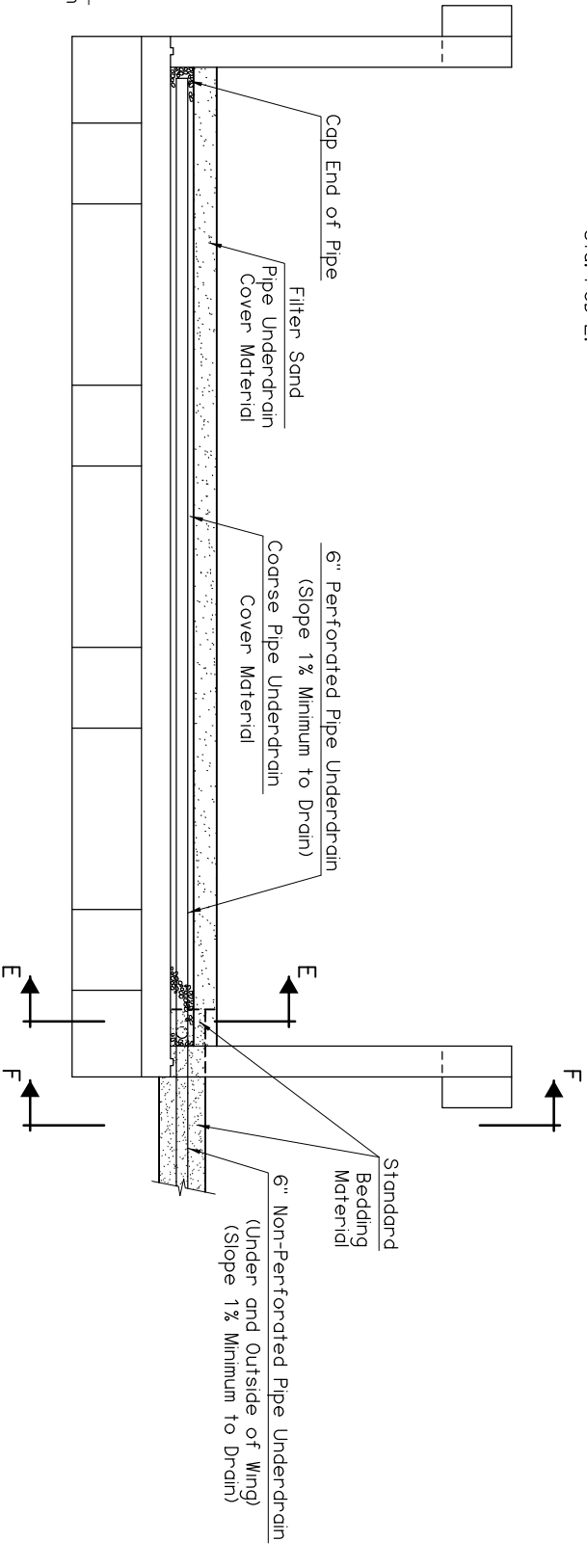


NOTE:  
Concrete may be placed against the limits of excavation if the material is excavated to the neat lines of the abutment and approved by the Engineer. If necessary, forms shall be used on the back vertical face of the abutment and removed after concrete is set. Measurement and payment for SUBSTRUCTURE EXCAVATION COMMON shall be in accordance with the diagram shown on the plans.

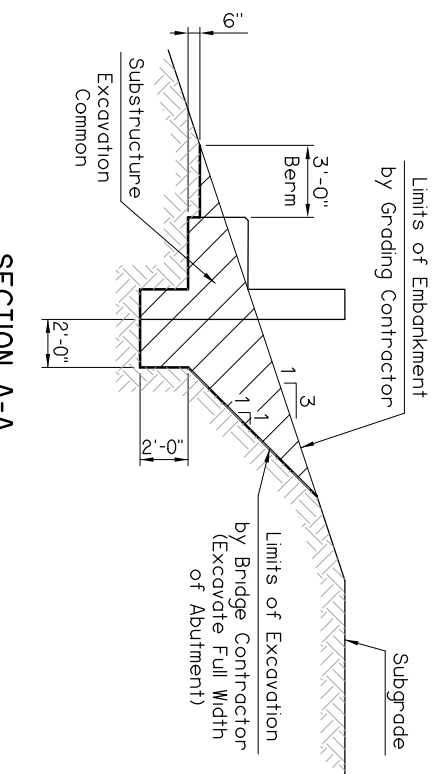


EXCAVATION PLAN

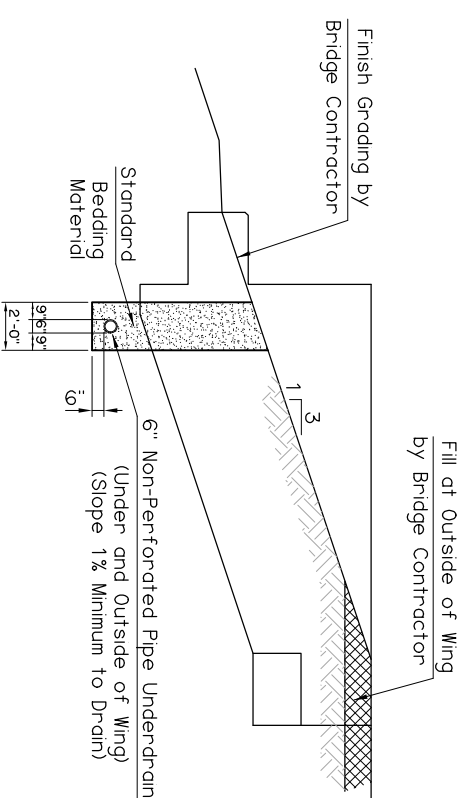
NOTE:  
Extent, location and depth of 6" Non-Perforated Pipe Underdrain may be adjusted by the Engineer during construction. All cost of Pipe Underdrain Cover Material (both Fine and Coarse), Trench Excavation, Standard Bedding Material, and equipment and labor for their installation shall be included in the contract unit price of 6" PERFORATED PIPE UNDERDRAIN ROUND and 6" NON-PERF. PIPE UNDERDRAIN RMD. Installation shall be as shown on the plans and on Std. PUD-2.



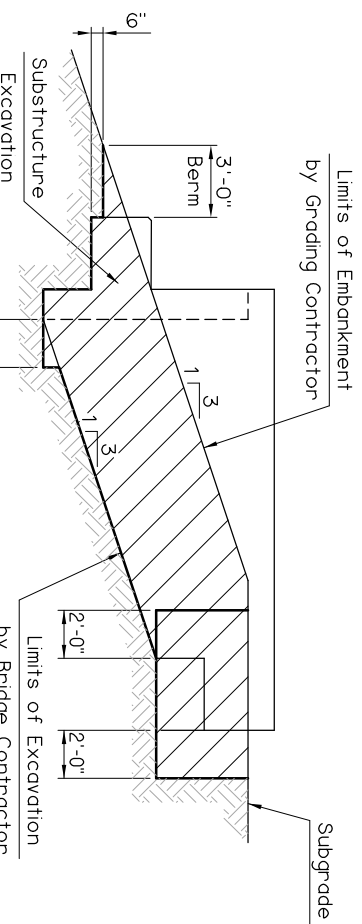
PIPE UNDERDRAIN PLAN



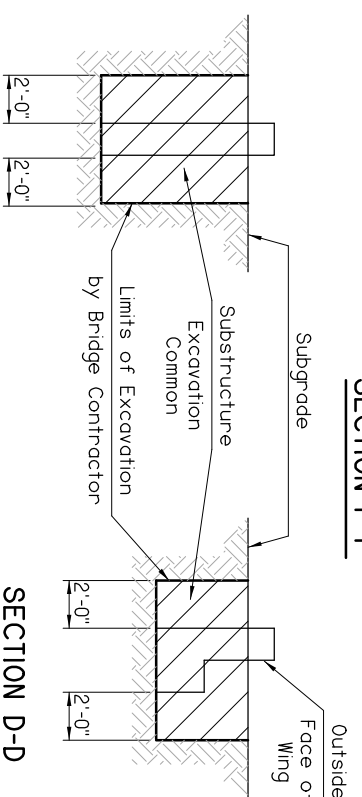
SECTION A-A



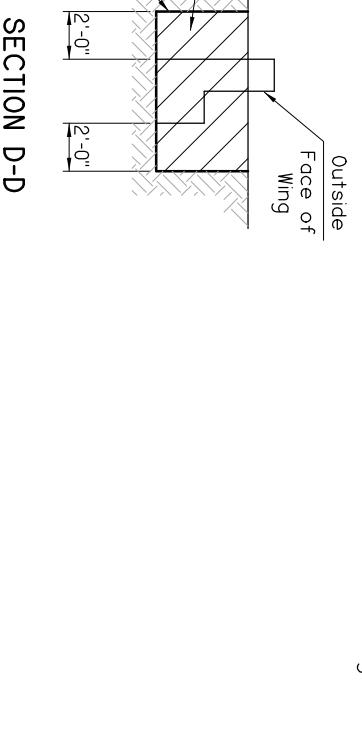
SECTION F-F



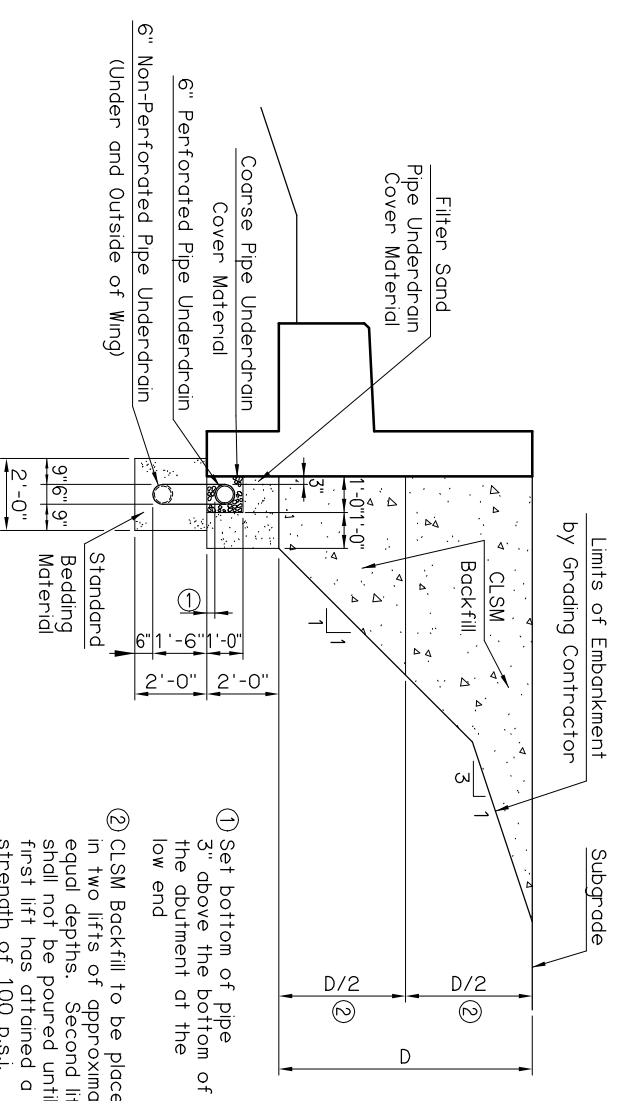
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

CLSM Backfill shall not be placed until the Abutment Wings have attained a strength of 3000 p.s.i.

- ① Set bottom of pipe 3" above the bottom of the abutment at the low end
- ② CLSM Backfill to be placed in two lifts of approximately equal depths. Second lift shall not be poured until first lift has attained a strength of 100 p.s.i.

APPROVED BY BRIDGE ENGINEER  
OKLAHOMA DEPT. OF TRANSPORTATION  
BRIDGE STANDARD (ENGLISH)  
SUBSTRUCTURE EXCAVATION AND  
PIPE UNDERDRAIN ASSEMBLY DETAILS  
CONVENTIONAL

1999 SPECIFICATIONS

B40-C-ABUT-MISC

ODE

B-260E