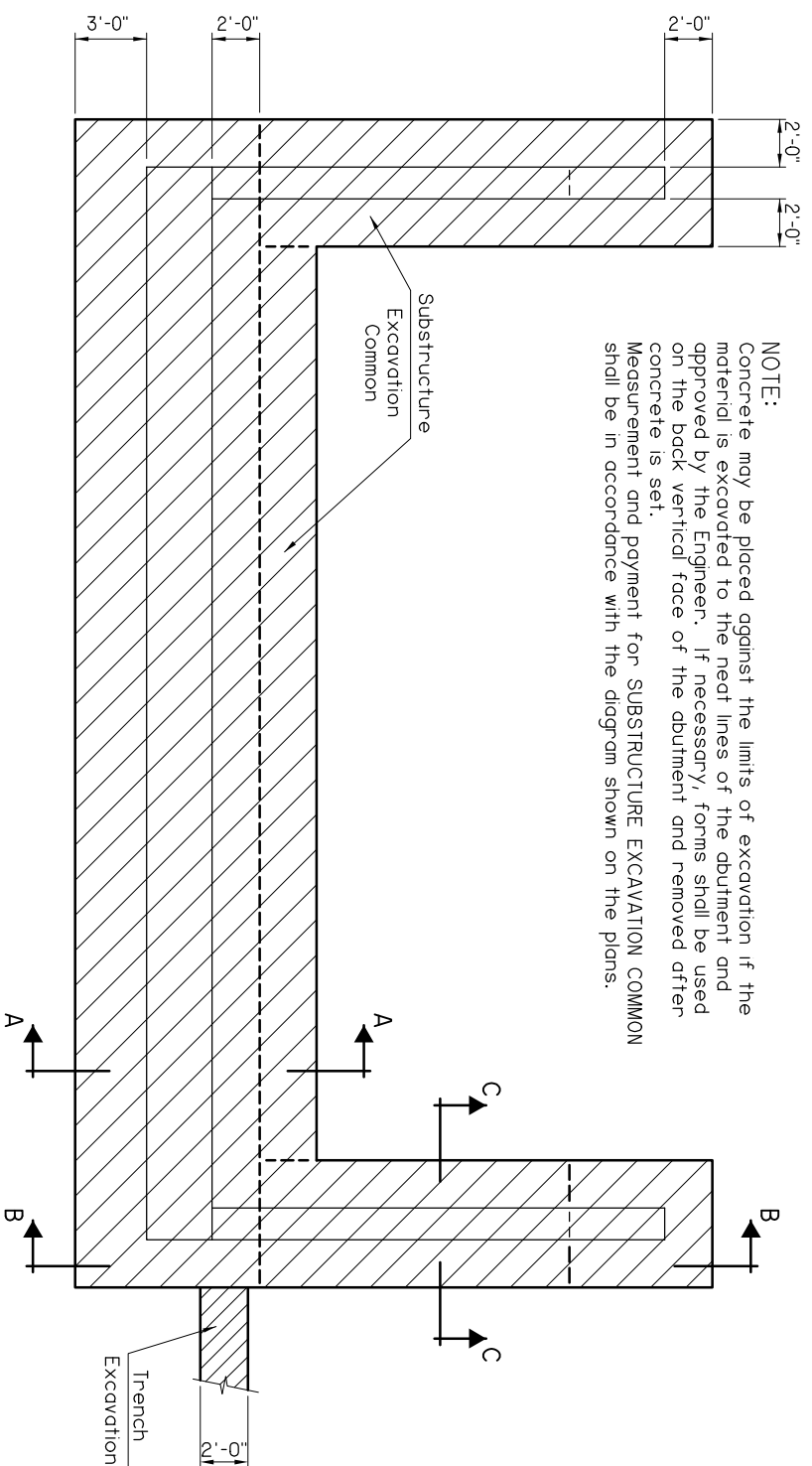
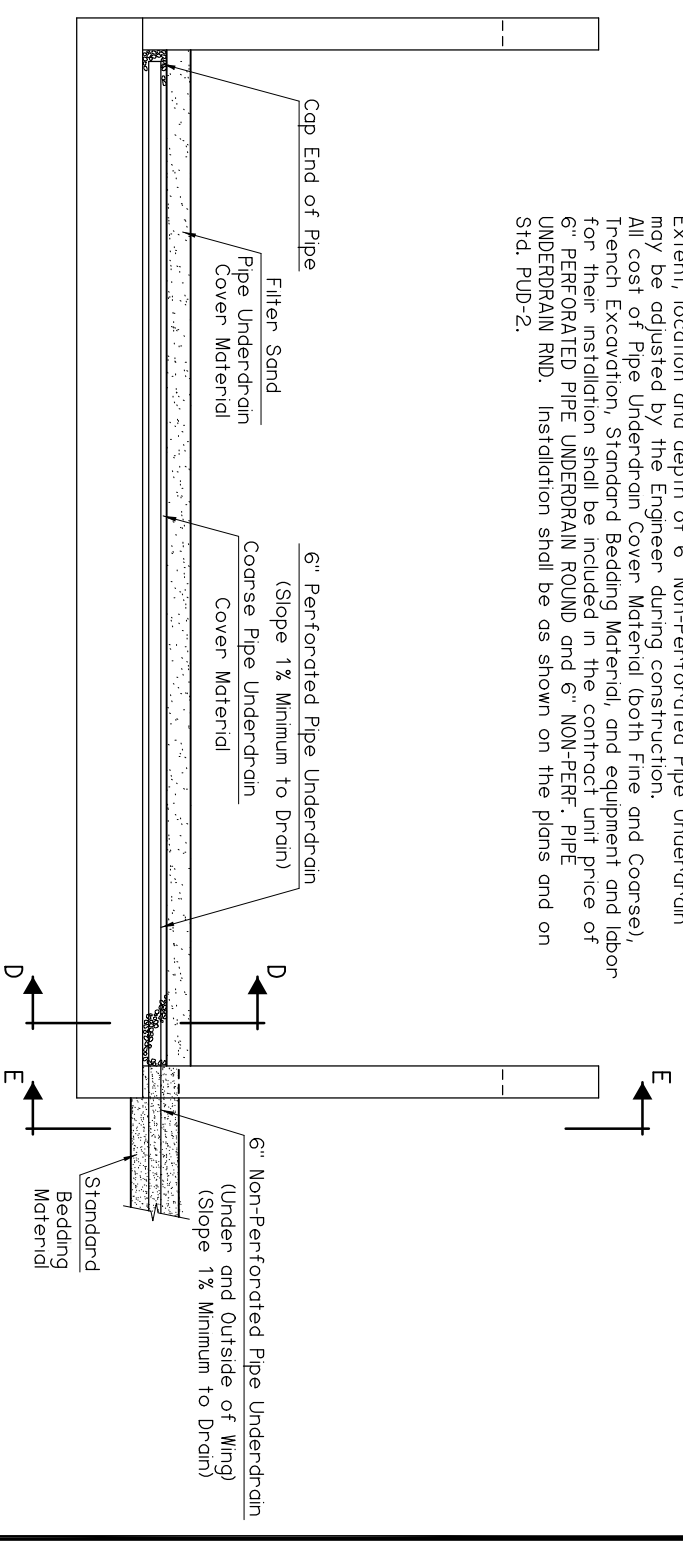


NOTE:
Concrete may be placed against the limits of excavation if the material is excavated to the neat lines of the abutment and approved by the Engineer. If necessary, forms shall be used on the back vertical face of the abutment and removed after concrete is set. Measurement and payment for SUBSTRUCTURE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

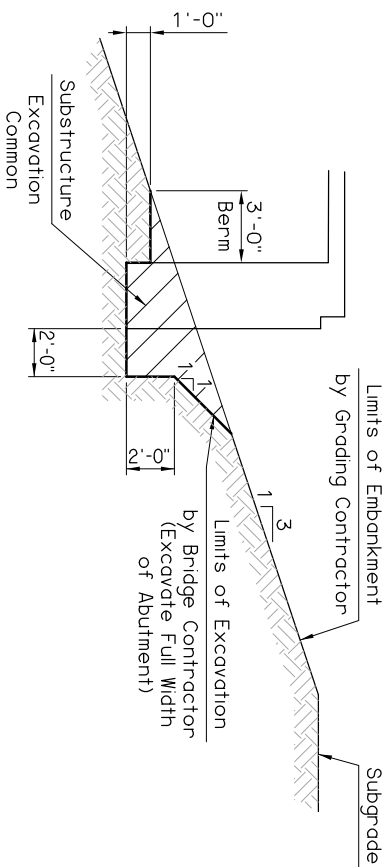


EXCAVATION PLAN

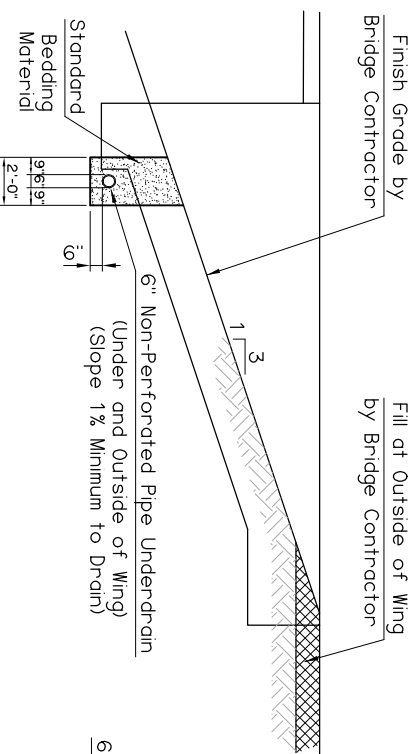
NOTE:
Extent, location and depth of 6" Non-Perforated Pipe Underdrain may be adjusted by the Engineer during construction. All cost of Pipe Underdrain Cover Material (both Fine and Coarse), Trench Excavation, Standard Bedding Material, and equipment and labor for their installation shall be included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



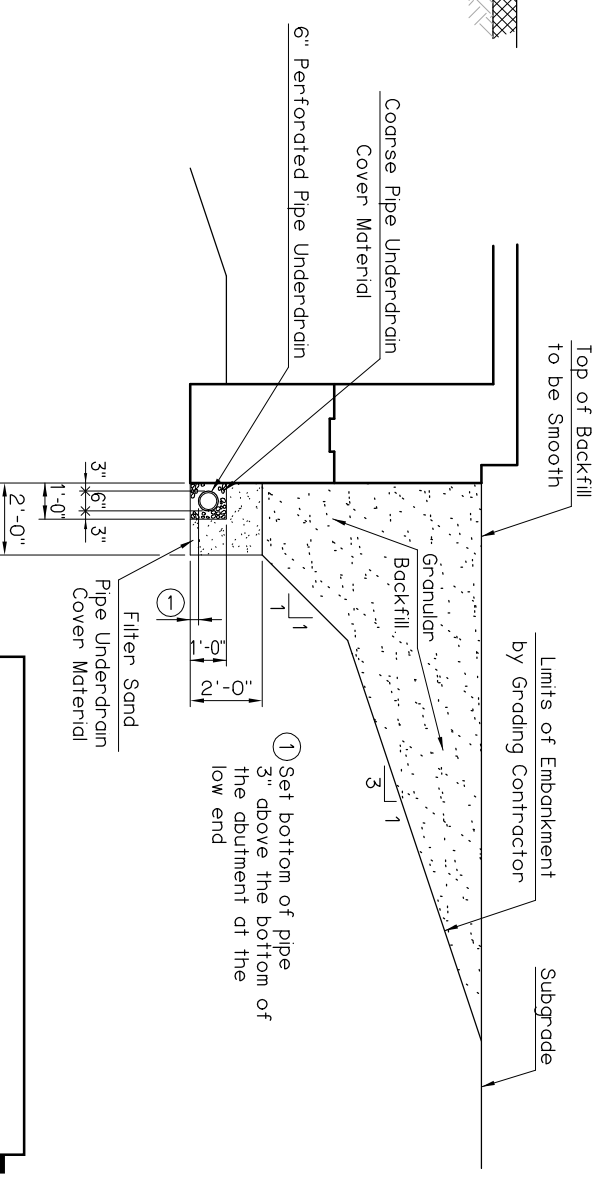
PIPE UNDERDRAIN PLAN



SECTION A-A

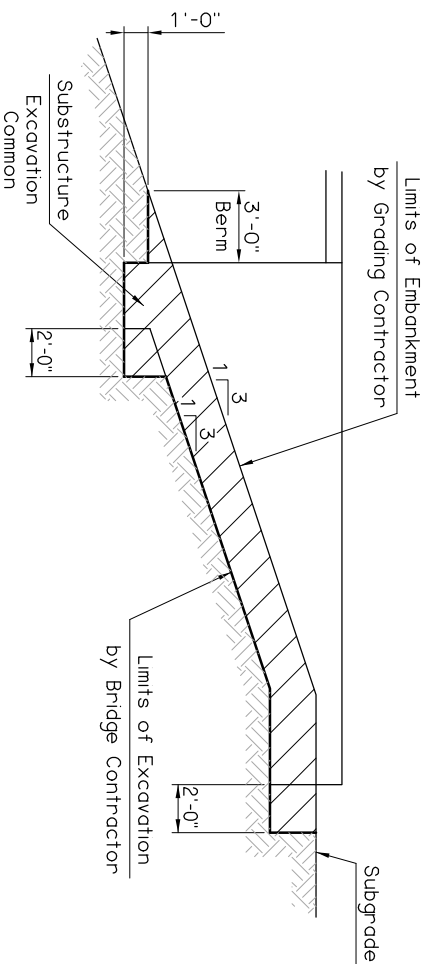


SECTION E-E

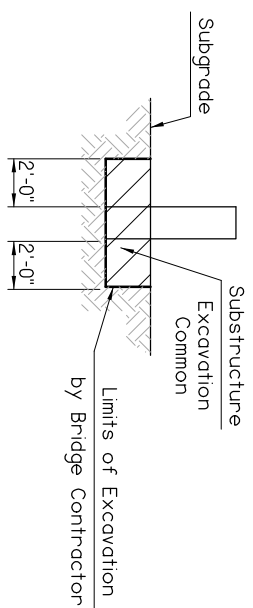


SECTION D-D

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



SECTION B-B



SECTION C-C

APPROVED BY BRIDGE ENGINEER *Chad Head* DATE *8/18/09*
 OKLAHOMA DEPT. OF TRANSPORTATION
 BRIDGE STANDARD (ENGLISH)
PIPE UNDERDRAIN ASSEMBLY DETAILS
 INTEGRAL
 1999 SPECIFICATIONS B40-I-ABUT-MISC
 CODE B-60E