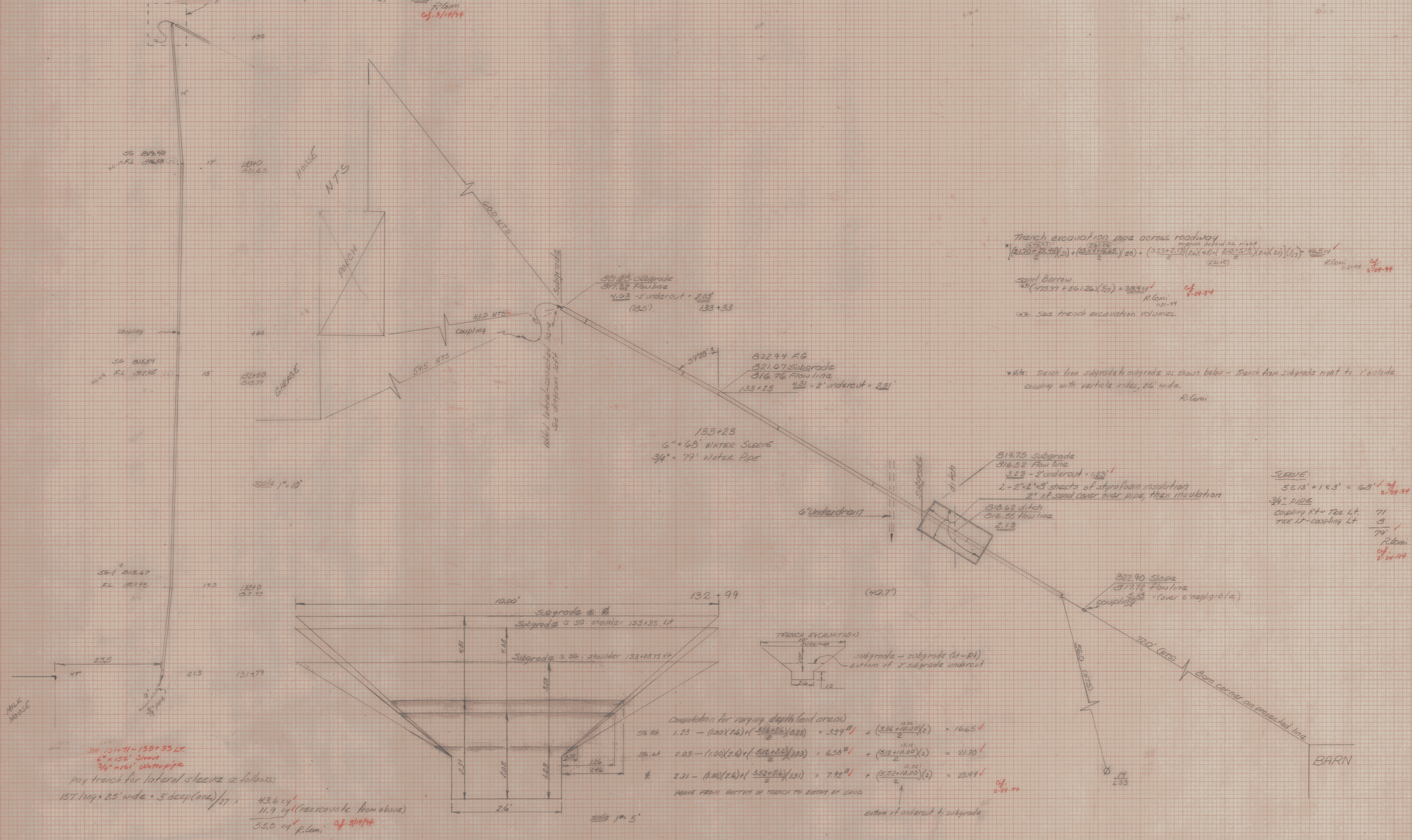


authorized to fill in at end of day for safety.
Pay for re-excavating $10 \times 5 \times 4 \times 1/27 = 11.9 \text{ cy}$
R.L. Comi
05-21-94

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NOTE BOOK
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Trench excavation pipe across roadway
Trench beyond on right
 $(2.170 + 2.344)(2) + (2.314 + 1.665)(2.0) + (3.23 + 2.13)(2.0) + (2.15 + 1.515)(2.0) + (2.17)(1.17) = 46.54 \text{ cu yd}$
R.L. Comi
05-21-94

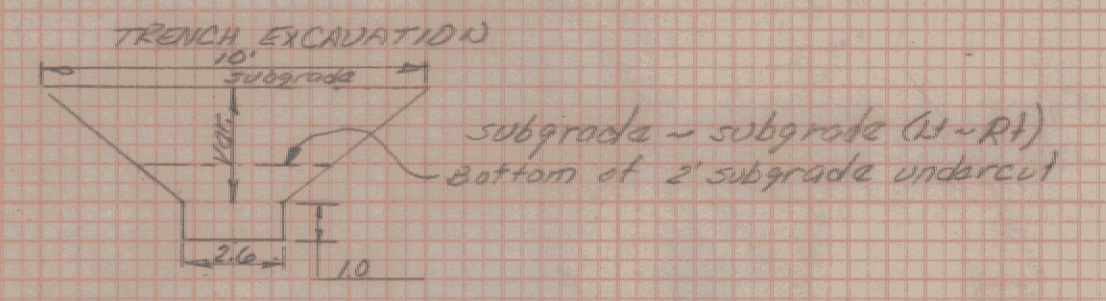
Small Borrow
 $(173.97 + 561.26)(1/2) = 367.62 \text{ cu yd}$
R.L. Comi
1-31-94

See trench excavation volumes.

Note: Trench from subgrade to subgrade as shown below - Trench from subgrade right to 1' outside coupling with vertical sides, 26" wide.
R.L. Comi

SLEEVE:
 $58.13 + 1.03 = 63.16 \text{ cu yd}$
05-21-94

3/4" PIPE
Coupling RT - Tee Lt. 71
Tee Lt - Coupling Lt. 3
74
R.L. Comi
05-21-94



Computation for varying depth (end areas)

SG RT	1.23	-	$(1.00)(1.6) + (3.36 + 2.6)(0.23) = 3.29 \text{ cu yd}$	+ $(3.36 + 10.00)(2) = 16.65 \text{ cu yd}$
SG LT	2.03	-	$(1.00)(2.6) + (5.12 + 2.6)(1.03) = 6.58 \text{ cu yd}$	+ $(5.12 + 10.00)(2) = 21.70 \text{ cu yd}$
E	2.31	-	$(1.00)(2.6) + (5.52 + 2.6)(1.31) = 7.92 \text{ cu yd}$	+ $(5.52 + 10.00)(2) = 23.44 \text{ cu yd}$

NOTE: FROM BOTTOM OF TRENCH TO BOTTOM OF SHOULDER
bottom of undercut to subgrade

ON 131+71 - 133+33 LT.
6" x 15' Sleeve
3/4" x 161' Water pipe
pay trench for lateral sleeve as follows:
 $157' \text{ long} \times 25' \text{ wide} \times 3' \text{ deep (avg)} / 27 = 13.6 \text{ cu yd}$
 11.9 cu yd (re-excavate from above)
55.5 cu yd R.L. Comi
05-21-94