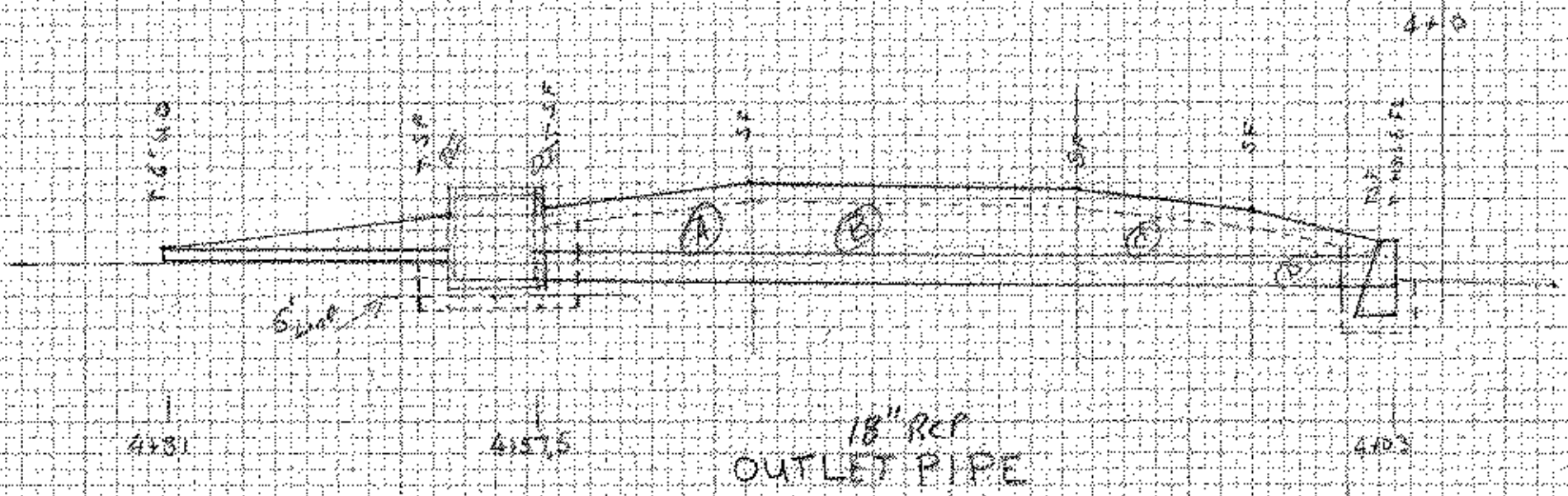


4+51.5 ~ 4+03 RT.
 NEW 18" RCP CLASS III
 TO BK#1 P.85



- 18" RCP OUTLET PIPE
- FORMULA O-S PIPE:
- ① $3.5 + 5.0 \left(\frac{1}{2} \right) (3.98) \left(\frac{1}{100} \right) = 6.9'$
 - ② $5.0 \left(\frac{2}{2} \right) (3.98) \left(\frac{1}{100} \right) = 14.7'$
 - ③ $5.0 + 3.5 \left(\frac{1}{2} \right) (3.98) \left(\frac{1}{100} \right) = 6.9'$
 - ④ $3.5 + 2.5 \left(\frac{1}{2} \right) (3.98) \left(\frac{1}{100} \right) = 2.6'$
- O-S HEADLOSS $5.0 \left(\frac{6.0}{100} \right) (8.0) \left(\frac{1}{100} \right) = 7.4'$
- O-S DI $(9.0)(9.0) \left(\frac{5.0}{100} \right) \left(\frac{1}{100} \right) = 15.0'$
- 45 DI $(9.0)(9.0) \left(\frac{1.5}{100} \right) \left(\frac{1}{100} \right) = 4.5'$

SAND:

1' UNDER DI $(9.0)(9.0) \left(\frac{1.0}{100} \right) \left(\frac{1}{100} \right) = 3.0'$

1' UNDER HEADLOSS $(3.0)(9.0) \left(\frac{1.5}{100} \right) \left(\frac{1}{100} \right) = 1.5'$

4.5 cft 3/13/66 dia
 TO BK#1 P.65

SAND BORROW PITS

Vol of Pipe $(3.75)(3.75) \left(\frac{17.4}{100} \right) \left(\frac{1}{100} \right) = 102.1'$

DI $(9.0)(9.0) \left(\frac{1.5}{100} \right) \left[\left(\frac{2}{2} \right) \left(\frac{3.14}{100} \right) \left(\frac{1}{100} \right) \right] = 17.8'$

82.3 cft - PIPE

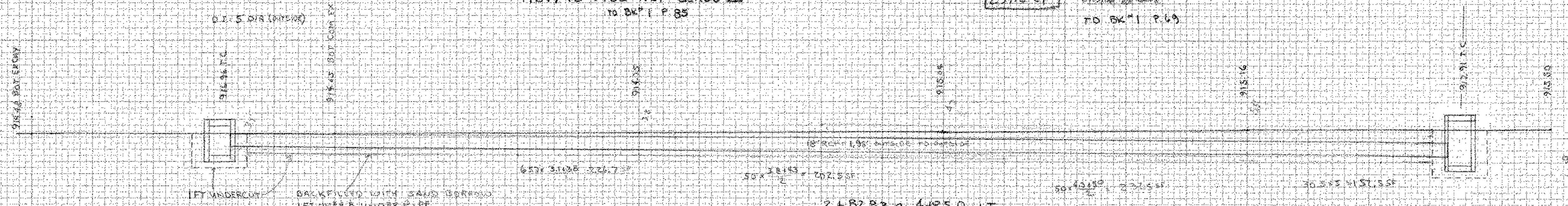
$\frac{607.5 - 127.6}{27} = \frac{178 \text{ cy} - \text{DI}}{250} \left(\frac{3/13/66 \text{ dia}}{250} \right)$

SAND TOTAL = 100.1
 TO BK#1 P.65

- PIPE T.E. O-S
- ① $88' \times 5' \times 3.98 \div 27 = 64.8'$
 - ② $65.4' \times 5' \times 3.98 \div 27 = 48.2'$
 - ③ $21.5' \times 5' \times 3.98 \div 27 = 15.8'$
 - ④ H.O.L. T.E. O-S $56' \times 5.0' \times 8.0 \div 27 = 7.4'$
 - ⑤ H.O.L. T.E. S.E. $50' \times 10' \times 8.0 \times 1.5 \div 27 = 2.2'$
- DI T.E. O-S
- ① $1/2 (3.3)(2.1) \left(\frac{1.5}{100} \right) \left(\frac{1}{100} \right) = 1.9'$
 - ② $1/2 (4.0)(3.7) \left(\frac{3.98}{100} \right) \left(\frac{1}{100} \right) = 26.7'$
 - ③ $1/2 (0.3 + 0.5) \left(\frac{3.98}{100} \right) \left(\frac{1.5}{100} \right) \left(\frac{1}{100} \right) = 7.7'$
 - ④ DI T.E. O-S $(9.0)(9.0) \left(\frac{5.0}{100} \right) \left(\frac{1}{100} \right) = 15.0'$
 - ⑤ DI T.E. S.E. $(9.0)(9.0) \left(\frac{1.5}{100} \right) \left(\frac{1}{100} \right) = 12.6'$

4+85 LT ~ 4+83 SPT
 NEW 18" x 182' RCP CLASS III
 TO BK#1 P.85

257.2 cft 3/13/66 dia
 TO BK#1 P.65



SAND BORROW PITS

$3.14 \times 3.75 \times 19.4 \times 1.0 = 118.5'$

$(1.78) \times 3.14 \times 19.4 \times 0.7 = 71.4'$

47.1 3/13/66 dia
 INLET TO BK#1 P.65

PIPE T.E. (S)

- ① $814' \times 5' \times 3.98 \div 27 = 120.0'$
- ② DI T.E. $9' \times 9' \times 5.0 \div 27 = 15.0'$
- ③ DI T.E. S.E. $9' \times 9' \times 1.5 \div 27 = 4.5'$

139.5 cft Total T.E.
 TO BK#1 P.65

2+82.83 ~ 4+85.0 LT
 NEW 18" x 200' RCP CLASS 3
 TO BK#1 P.85
 W/ P.C.C. AT INLET (8 FT. DIA)

D.I. SAND
 100' x 20' x 2' = 4000 cft

10' x 8' x 3' = 240 cft

12.5' x 3.5' = 43.75 cft