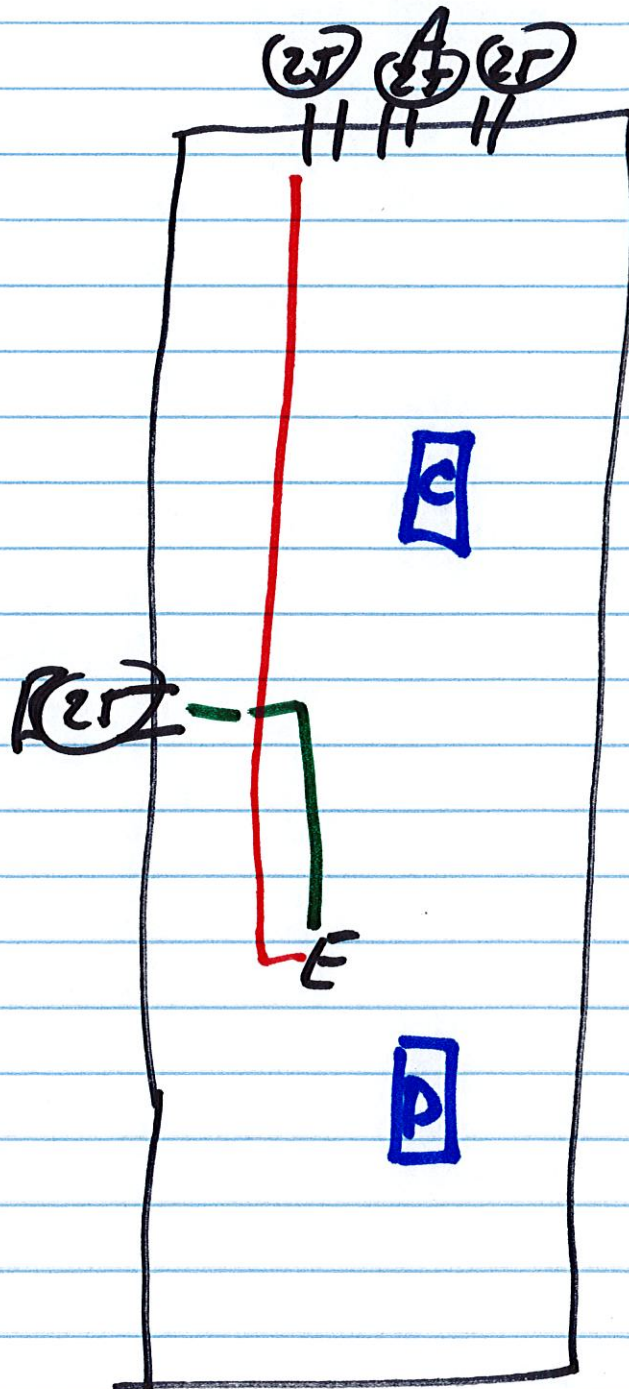


MEMO #9

• REAR SITUATION



POTENTIAL
SAVINGS:

- TRUCKING
COST

- SPACE
COST

COST COMPUTATION: 10-YEAR
DISCOUNTED COSTS

$$\sum_{i=0}^{10} \left(\frac{1}{1+r}\right)^i C_i$$

C_0 : UP-FRONT COST [NEW DOCKS]

r = INTEREST RATE (.06)

HERE $C_i = C$, FOR $i=1 \dots 10$

$$\sum_{i=1}^{10} \left(\frac{1}{1+r}\right)^i = \frac{1}{r} \left[1 - \frac{1}{(1+r)^{10}}\right]$$

DISCRETE DECISIONS

- NEW DOCK(S)
- SOFTWARE C/D

TWO WAYS TO HANDLE THIS:

- ① BY HAND
- ② "ONE SHOT" IN SOLVER
WITH BINARY/INTEGER VARS.

IN WRITE-UP, WOULD BE NICE
TO CONSIDER SENSITIVITY TO
COST ASSUMPTIONS.

TRUCKING
COST

SPACE
COST

"UP TO 10 PAGES"

5 MORE THAN ENOUGH...