

DIKE VOLUME CALCULATION

FORMULAE USED:

$(\pi r^2 h) (7.48 \text{ GAL./CU. FT.}) = \text{TANK DISPLACEMENT VOLUME (GAL.)}$
 $(LWH) (7.48 \text{ GAL./CU. FT.}) = \text{DIKE VOLUME (GAL.)}$

r (TANK RADIUS) = 5.75 FT. (5'-3")
 L (DIKE LENGTH) = 49.5 FT. (41'-6" I.D.)
 W (DIKE WIDTH) = 18.5 FT. (18'-6" I.D.)
 H (DIKE HEIGHT) = 3.5 FT. (3'-6")
 $25 \text{ YR./24HR. RAIN} = 0.71"$

DIKE VOLUME = $(49.5 \text{ FT.}) (18.5 \text{ FT.}) (3.5 \text{ FT.}) (7.48 \text{ GAL./CU. FT.}) = 20,974 \text{ GAL. (+)}$

VOLUME OF LARGEST TANK WITHIN DIKED AREA = 15,000 GAL. (-)

TANK DISPLACEMENT VOLUME:

$\pi (5.75 \text{ FT.})^2 (3.5 \text{ FT.}) (7.48 \text{ GAL./CU. FT.}) = 2,266 \text{ GAL. x 3 TANKS} = 6,798 \text{ GAL. (-)}$

25 YR./24HR. RAIN VOLUME

ROOF OVER TANKFARM = 0 GAL. (-)
 VOLUME OF ANGULAR PORTION OF DIKE WALL = 395 GAL. (-)
 TOTAL EXCESS = 4,097 GAL. (+)

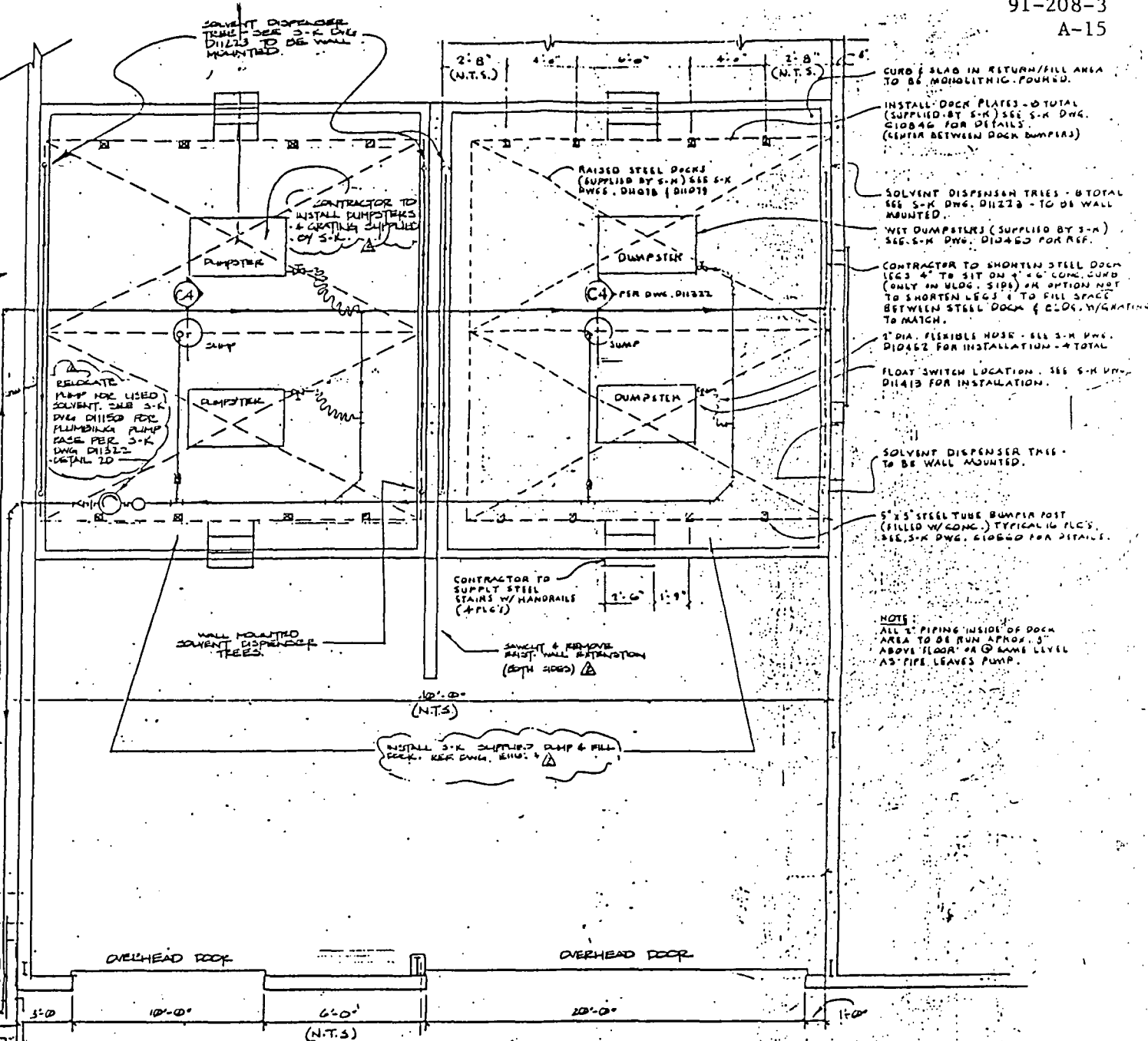
SAFETY CUT EXISTING CONC. 1" - 2" DEEP GROOVE, CONTINUOUS, TO RECEIVE NEOPRENE LIQUID STOP.

NOTE:
TOP OF EXISTING CONC. DIKE WALL TO BE CLEANED & SCRUBBED W/50-50 ACID SOLUTION IN PREPARATION FOR EPOXY BONDING AGENT. BONDING AGENT TO BE W.R. MENDOLUX NITROLOC ACRYLIC LATEX OR MPD EQUAL AND TO BE APPLIED PRIOR TO POURING NEW CONC..

DRILL 3/8" DIA. x 6" DEEP HOLE INTO EXISTING CONC. AND EPOXY BOND #4 ROD (TYPICAL)

RAISE 2" DIKE 6" ABOVE EXIST. ELEVATION

CONCRETE EXIST. WALL & SLAB



TANK FARM/DOCK PLAN SCALE: 1/4" = 1'-0"

NOTES

1. HIGH LEVEL ALARM TO BE INSTALLED PER SAFETY-KLEEN DWGS. D11523, D11534 & D11539
2. ALL DWGS. SUPPLIED TO CONTRACTOR CONTAINING S-K PART # REFERENCES. THESE ITEMS WILL BE SUPPLIED BY SAFETY-KLEEN.
3. S-K = SAFETY-KLEEN
4. (N.T.S.) = NOT TO SCALE

Safety-Kleen Corp. 12000 TANK FARM ROAD • EL CERRILLO, CALIF. 94530		
TANK FARM/DOCK PLAN		
1/4" = 1'-0" 5/21/85	INCREASE TANK VOLUME CAPACITY PER S-K DWG. D11534 RETAIN EXIST. TANKS & FORMS	CM JMC