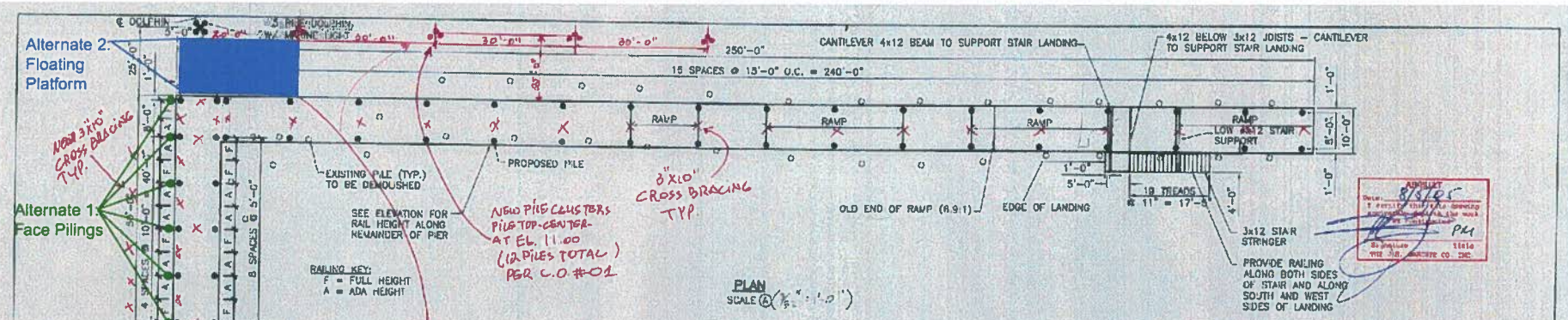

NOTES:

1. DEMOLISH AND REMOVE EXISTING PIER RAILING, DECK, AND FRAMING.
2. REMOVE EXISTING PILES ON LAND TO 6" BELOW GRADE.
3. REMOVE EXISTING PILES IN WATER TO 6" BELOW MUD LINE.
4. NEW PILES TO BE PRESSURE TREATED ROUND PILES.
5. PILES SHALL BE DRIVEN TO A RESISTANCE SUFFICIENT TO SUPPORT 145 KIPS DETERMINED BY THE MODIFIED ENGINEERING NEWS FORMULA. PILES ARE ANTICIPATED TO PENETRATE APPROXIMATELY 15 FEET BELOW THE MUDLINE.
6. NEW PIER FRAMING, DECK PLANKING, AND RAILING TO BE PRESSURE TREATED SAWN LUMBER.
7. ALL NAILS, SCREWS, BOLTS, AND OTHER CONNECTION HARDWARE TO BE GALVANIZED OR MANUFACTURED FROM STAINLESS STEEL.
8. MARINE LIGHTS ON DOLPHINS PROVIDED BY THE GOVERNMENT.

DESIGN CRITERIA:

1. PIER IS DESIGNED IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) 2000 EDITION.
2. RAMPED SECTIONS OF PIER HAVE A SLOPE LESS THAN 1-IN-12 AND A RISE LESS THAN 30-INCHES IN COMPLIANCE WITH ADA GUIDELINES.

MODIFIED ENGINEERING NEWS FORMULA:

$$R = \frac{2E}{S+0.1} \cdot \frac{W_r + n^2 W_p}{W_r + W_p}$$

WHERE:

R = RESISTENCE, POUNDS
E = RATED PILE HAMMER ENERGY, FOOT-POUNDS PER BLOW
S = PILE SET FOR THE FINAL 3 INCHES OF DRIVING, INCHES PER BLOW
W_r = WEIGHT STRIKING PARTS OF HAMMER, POUNDS
W_p = WEIGHT DRIVEN PILE PLUS CAP BLOCK, POUNDS
n = COEFFICIENT OF RESTITUTION: 0.25 FOR TIMBER PILES

DESIGNED: FC, SN; CHECKED: DK; TECH. REVIEW: KD; DATE: 06/07/04	SLD SHEET NO. S1	TITLE OF SHEET: PIER PLAN — NATIONAL COLONIAL FARM	DRAWING NO. 838 80161; PKG. NO. ___; SHEET 9 OF 12