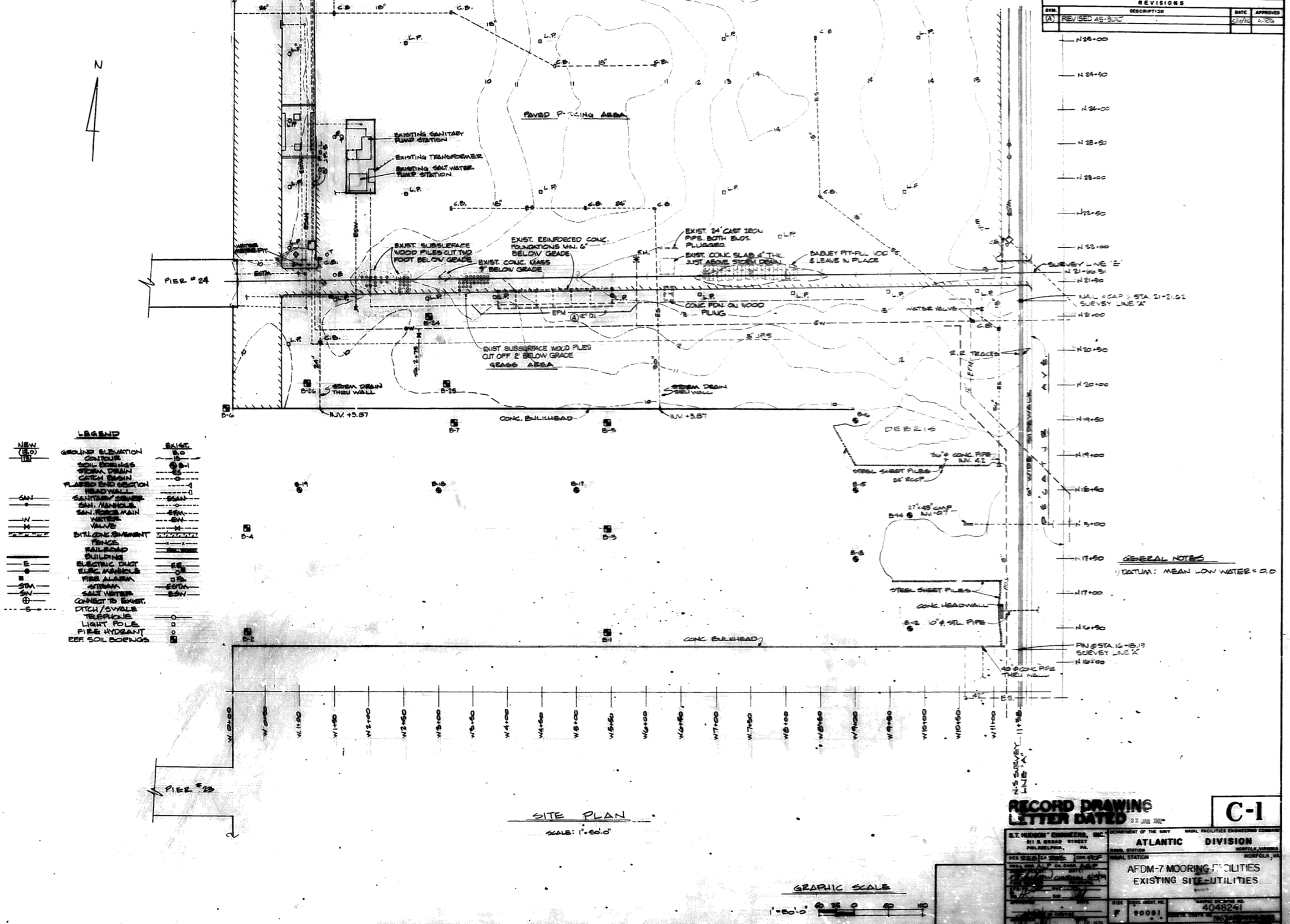
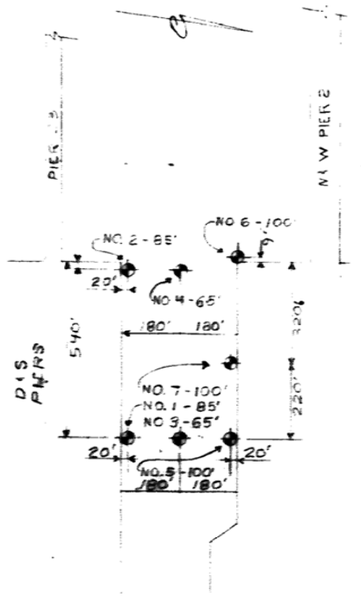


REVISIONS
SYM. DESCRIPTION DATE APPROVED
(A) REVISED AS-BUILT
N
PAVED PARKING AREA
EXISTING SANITARY PUMP STATION
EXISTING TRANSFORMER
EXISTING SALT WATER PUMP STATION
EXIST. SUBSURFACE WOOD PILES CUT TWO FOOT BELOW GRADE
EXIST. REINFORCED CONC. FOUNDATIONS MIN. 6" BELOW GRADE
EXIST. CONC. MASS 9" BELOW GRADE
EXIST. 24" CAST IRON PIPE. BOTH ENDS PLUGGED.
EXIST. CONC. SLAB 4" THK. JUST ABOVE STORM DRAIN
BARNEY PIT-FILL VOID & LEAVE IN PLACE
PIER #24
CONC. FDN. ON WOOD PILING
EXIST SUBSURFACE WOOD PILES CUT OFF 2' BELOW GRADE
GRASS AREA
STORM DRAIN THRU WALL
CONC. BULKHEAD
INV. +3.87
WATER VALVE
R.R. TRACKS
DEBRIS
36"ø CONC. PIPE INV. 4.2
STEEL SHEET PILES 24" RCCP
27"x43" CMP INV. -0.7
STEEL SHEET PILES
CONC. HEADWALL
10"ø STL. PIPE
40"ø CONC. PIPE THRU WALL
PIN @ STA. 16+18.19 SURVEY LINE "A"
SURVEY LINE "E"
NAIL & CAP @ STA. 21+21.62 SURVEY LINE "A"
PIER #23
N-S SURVEY LINE "A"
LEGEND
NEW
EXIST.
GROUND ELEVATION
CONTOUR
SOIL BORINGS
STORM DRAIN
CATCH BASIN
FLARED END SECTION
HEADWALL
SANITARY SEWER
SAN. MANHOLE
SAN. FORCE MAIN
WATER
VALVE
BITU. CONC. PAVEMENT
FENCE
RAILROAD
BUILDING
ELECTRIC DUCT
ELEC. MANHOLE
FIRE ALARM
STEAM
SALT WATER
CONNECT TO EXIST.
DITCH/SWALE
TELEPHONE
LIGHT POLE
FIRE HYDRANT
REF. SOIL BORINGS
GENERAL NOTES
1) DATUM: MEAN LOW WATER = 0.0
SITE PLAN
SCALE: 1"=50'-0"
GRAPHIC SCALE
1"=50'-0"
RECORD DRAWING LETTER DATED 22 JAN 1982
C-1
S.T. HUDSON ENGINEERS, INC.
311 S. BROAD STREET
PHILADELPHIA, PA.
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
NAVAL STATION NORFOLK, VA.
AFDM-7 MOORING FACILITIES
EXISTING SITE-UTILITIES
SIZE F
CODE IDENT. NO. 80091
NAVFAC DRAWING NO. 4048241

DEPTH	BORING NO. 4 ELEV. MLW DESCRIPTION	BLOWS	D	BORING NO. 3 ELEV. MLW DESCRIPTION	BLOWS	D	BORING NO. 5 ELEV. MLW DESCRIPTION	BLOWS	D	BORING NO. 6 ELEV. MLW DESCRIPTION	BLOWS	D	BORING NO. 2 ELEV. MLW DESCRIPTION	BLOWS	D	BORING NO. 1 ELEV. MLW DESCRIPTION	BLOWS	D
0'	WATER			WATER			WATER			WATER			WATER			WATER		
5'							SAND F/M, BRN, LITTLE SILT WET, MED COMPACT	9										
10'	SAND, FINE TO MEDIUM, GRAY, LITTLE SILT, WET, LOOSE	3					LITTLE CLAY LOOSE	6										
15'		10		SAND, FINE TO MEDIUM, GRAY, STREAKS OF BLACK, SOME SILT, TRACE GRAVEL, WET, MED COMP.	15		TRACE SHELL, MED COMPACT	16					SAND, FINE TO MED, GRAY SOME SILT, TRACE GRAVEL, WET LOOSE	5		SILT, BLACK AND FINE TO MED SAND, WET	WOH	
20'	SAND, FINE, BROWN, SOME SILT, TRACE CLAY, SOME SHELL, WET, MED COMPACT	20		SAND, FINE TO MEDIUM, GRAY, TRACE SILT, WET, VERY COMPACT	19		SAND, FINE, GRAY, LITTLE SHELL, TRACE SILT, MOIST, MEDIUM COMPAC	26		SILT, BLACK AND FINE TO MEDIUM, SAND, WET, VERY SOFT	WOH		SILT, BLACK, TRACE FINE SAND, WET, VERY SOFT	WOH		SAND, FINE TO MED, GRAY, LITTLE SILT, TRACE CLAY AND SHELL, WET, LOOSE	9		TRACE CLAY	4	
25'	SAND, FINE, GRAY, LITTLE SHELL, TRACE SILT, MOIST, MED. COMPACT	29		SAND, FINE TO COARSE, GRAY, TRACE SILT, WET, VERY COMPACT	55			28		SAND, FINE TO MED, BLACK, AND SILT, WET, VERY LOOSE	2			WOH		SAND, FINE TO COARSE, GRAY TRACE SILT, WET, LOOSE	8		SAND, FINE, BROWN, SOME SILT, TRACE CLAY, AND SHELL MOIST, MED COMPACT	20	
30'	TRACE SHELL	21		SAND, FINE TO COARSE, GRAY, TRACE SILT, WET, MEDIUM COMPACT	6		TRACE SHELL AND COMPACT	44		SAND, FINE, BROWN TRACE SILT, WET, MED COMPACT	18		SAND, FINE, GRAY, TRACE SILT, AND SHELL, MOIST, COMPACT	37		SAND, FINE TO COARSE, GRAY TRACE SILT, WET WITH LAYERS OF SAND, FINE TO MED, GRAY, LITTLE SILT WET, MED COMPACT	18		SAND, FINE, GRAY, LITTLE SHELL, TRACE SILT, MOIST, COMPACT	31	
35'	TRACE CLAY	19		CLAY, GRAY, SOME FINE TO MEDIUM SAND, SOME SILT, MOIST, SOFT	4		LITTLE SILT, MED. COMPACT	30		LOOSE	10		MED. COMPACT	26			7		LITTLE SILT, MED. COMPACT	24	
40'		21		CLAY, GRAY, SOME SILT, MOIST, SOFT	3		SAND, FINE, GRAY, TRACE SHELL, LITTLE SILT, TRACE CLAY, MOIST, COMPACT	31		FINE TO COARSE SAND, MED. COMPACT	27			30		SAND, FINE, GRAY, SOME SILT, TRACE CLAY, WET, MED. COMPACT	13			28	
45'		23			2		LITTLE SHELL, TRACE SILT, NO CLAY	50		SAND, FINE, GRAY, LITTLE SHELL AND SILT, MOIST, MED. COMPACT	18		SAND, FINE, GRAY, TRACE SILT AND SHELL AND CLAY COMPACT	57		CLAY, GRAY, AND FINE TO COARSE, SAND, SOME SILT, MOIST, MED STIFF	5		SAND, FINE, GRAY, LITTLE SHELL, TRACE SILT, MOIST, COMPACT	39	
50'		27		LITTLE SILT	2			45		SAND, FINE, GRAY, TRACE SHELL AND SILT AND CLAY, MOIST, MED. COMPACT	24			34		CLAY, BROWN, AND ORGANIC MATTER, LITTLE SILT, TRACE FINE TO MED. SAND, MOIST, SOFT	3			33	
55'		25		CLAY, GRAY, LITTLE SILT, SPOTS OF ORGANIC MATTER AND PIECES OF WOOD, MOIST	6			42			30		NO CLAY	45		MED. STIFF	6			34	
60'		36		CLAY, GRAY, LITTLE SILT, SPOTS OF ORGANIC MATTER AND PIECES OF WOOD, MOIST, MED. COMPACT	18		TRACE SHELL AND CLAY	36		SAND, FINE, GRAY, TRACE SHELL AND SILT, MOIST, COMPACT	36		SAND, FINE GRAY TRACE SILT, LITTLE SHELL, VERY COMPACT	91		SAND, FINE, GRAY LITTLE SILT, TRACE CLAY AND SHELL, MOIST, MED COMPACT	30			33	
65'		35			24			49		VERY COMPACT										
70'		37		SAND, FINE, GRAY, LITTLE CLAY, TRACE SILT AND SHELL, MOIST, MED COMPACT	27		VERY COMPACT	59		BORING TERMINATED AT 66'-6"	57		BORING TERMINATED AT 66'-6"	67		SAND, FINE, GRAY, SOME SHELL, TRACE SILT, MOIST, COMPACT	43			42	
75'		43		COMPACT	35		SAND, FINE, GRAY, TRACE SHELL, LITTLE CLAY, TRACE SILT, MOIST, COMPACT	34								LITTLE SHELL, VERY COMP.	60		VERY COMPACT	53	
80'		43			35			31								TRACE SHELL, COMPACT	32			52	
85'	TRACE CLAY	47		SAND, FINE, GRAY, LITTLE SHELL, TRACE SILT, AND CLAY, MOIST, VERY COMPACT	51		SAND, FINE, GRAY, TRACE SHELL AND SILT, MOIST, MED. COMPACT	26								LITTLE SHELL	47		TRACE SHELL	34	
90'	SAND, FINE, GRAY, SOME SHELL, TRACE SILT, MOIST, COMPACT	39		MED COMPACT	29			35								VERY COMPACT BORING TERMINATED AT 86'-6"	64		BORING TERMINATED AT 86'-6"	36	
95'	TRACE OF CLAY AND SHALE	45			28			28												
100'	END CLAY, BORING TERMINATED AT 101'-6"	46		BORING TERMINATED AT			BORING TERMINATED AT													

BORING LOGS
SCALE: 1" = 4'



BORING LOCATION

SCALE: 1" = 200'

N62470-73-C-1617 CHANGE 2&3
DATE: 3-5-74

GENERAL NOTES

1. BORINGS ADVANCED BY WASHING
2. BLOWS COLUMN INDICATES DEPTH OF SAMPLE AND NUMBER OF BLOWS REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER ONE FOOT INTO UNDISTURBED SOIL WITH A 140 LB. HAMMER FALLING 30" AS PER ASTM TEST D1586-64T C FIGURE OF 6C/3 IN BLOW COLUMN INDICATES 6C BLOWS FOR 3 INCHES)
3. ALL DEPTHS AND LOCATIONS ARE APPROXIMATE.
4. BORINGS DRILLED BY CARPENTER CONSTRUCTION CO. INC. IN. FEB. 1974
5. ABBREVIATIONS: ELEV.-ELEVATION BRN-BROWN MLW-MEAN LOW WATER, MED.OR M-MEDIUM WOH-WEIGHT OF HAMMER, COMP-COMPACT
6. DESCRIPTION OF SOIL IN ACCORDANCE WITH BURMISTER'S CLASSIFICATION ON BASIS OF VISUAL ESTIMATE BY DRILLER
7. SAMPLES ARE STORED AT LANTDIV-NAVFAC, AND ARE AVAILABLE FOR INSPECTION

RECORD DRAWING
LETTER DATED
31 MAR 1975

EFD SPEC. NO. 3197-72
WORK REQ. NO. 73-0082
L.D. KMJ
DRWN. MHB
TR.
CHK.
DR. SUP. TJM
DES. SUP. [illegible]
SATISFACTORY NO. DATE

DEPARTMENT OF THE NAVY NAVFAC ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.
NAVAL STATION NORFOLK, VA.
MOORING FACILITIES FOR AFDM-7
BORING LOG