

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE ROUTINE (U/W) INSPECTION DATE 10-9-97
 BRIDGE NO. 19 COUNTY PASQUOTANK ROUTE US 158 OVER PASQUOTANK RIVER
 STRUCTURE TYPE CONCRETE YEAR BUILT 1931
 LENGTH 846'-0 ROUTE ORIENTATION W TO E FOR SPAN A → M OF 34 SPANS

EVALUATION CODE: 0 - 2 CRITICAL, 3 & 4 POOR, 5 & 6 FAIR, 7 - 9 GOOD

INSPECTION ITEM		GRADE	ITEM 61	GRADE
DECK ITEMS				
1 WEARING SURFACE			a. WATERWAY	8
2 DECK	a. CONCRETE		b. ALIGNMENT	8
NO. OF EA.	b. TIMBER		c. SCOUR	8
TYPE SPN.	c. STEEL PLANK		d. SLOPE PROT., RIP - RAP, DIKES, ETC.	
GRADE	d. OPEN GRID			
RATES			50 APPROACH ROADWAY CONDITION	
SI & A ITEM			51 APPROACH SLABS	
58			52 PAINT SYSTEMS	CODE ()
			53 UTILITIES	
3 RAILING	a. CONCRETE		54 RESPONSE TO LIVE LOAD	
	b. TIMBER		55 ESTIMATED REMAINING LIFE	
	c. ALUMNUM			
	d. STEEL		60 REGULATORY SIGN NOTICE ISSUED	NO
4 CURBS - WHEELGUARDS - PARAPETS - MEDIANS			61 PROMPT - ACTION NOTICE ISSUED	NO
5 WALKWAYS (ON OR ATTACHED TO STRUCTURE)			62 PRESENTLY POSTED	N/P
6 DECK EXP. JTS. OR DEVICES	a. STEEL PL. OR FINGER PL.		63 TOT. FIELD INSP. TIME (INCLUDE WRITE UP) (MH)	23 Hrs
NO. OF EACH	b. MISC. PREFAB DEVICES		64 TOTAL SNOOPER INSP. TIME (HRS)	
	c. COMPRESSION SEALS		65 TOTAL TRAFFIC CONTROL TIME (MH)	
	d. STANDARD JOINTS			
	e. OPEN JOINTS			
7 DECK DEBRIS (INCLUDE EXCESS SAND / GRAVEL)				

SUPER. STR. (FM. 1 (90) B TRUSS) ITEM 59

10 LONGITUDINAL BEAMS OR GIRDERS	
11 LONGITUDINAL JOIST OR STRINGERS	
12 INT. DIAP'S, X-FRAMES, BRACING, & CONN'S	
13 END DIAP'S, CURTAIN WALLS, & CONN'S	
14 FLOOR BEAMS AND CONNECTIONS	
15 BEARINGS ASSEMBLIES (INCLUDE MISALIGN)	
16 DRAINAGE SYSTEMS (ON STRUCTURES)	
17 MOVABLE SPAN MACHINERY	

70 SI&A GENERAL CONDITION RATINGS

a. DECK	ITEM 58	
b. SUPERSTRUCTURE	ITEM 59	
c. SUBSTRUCTURE	ITEM 60	8
d. CHANNEL & CHANNEL PROT.	ITEM 61	8

71 SI&A FIELD APPRAISAL RATINGS

a. WATERWAY ADAQUACY	8
b. APPR. RDWY. ALIGNMENT	
72 FIELD SCOUR EVALUATION	0

SUB. STR ITEMS, ITEM 60 (INCLUDE SCOUR)

35 TIM. SUB. STR.	a. ABUT. & INT. BENT CAPS & RISERS	
	b. PILES, POST, SILLS, & BRACING	
	c. BULKHEADS, WING'S, & TIE BACKS	
36 CONC. SUB STR.	a. ABUT. & INT. BENT CAPS	4
	b. ABUT. & BENT COL'S & BREASTWALLS	
	c. ABUT. & INT. BENT PILES	5
	d. BACKWALLS - WING'S - RETAIN. WALLS	6
	e. ABUT. AND BENT FOOTINGS & SILLS	
37 STEEL SUB. STR.	a. ABUT. & INT. BENT CAPS & RISERS	
	b. PILES AND BRACING AND BULKHEADS	
38 FOUNDATION PILES TYPE MATERIAL		
39 SLOPE PROT., RIP - RAP (INCLUDE DRAINAGE)		
40 FENDER SYSTEMS		5
41 DRIFT		8

USE OF INSP. ACCESSIBILITY EQUIPMENT

SNOOPER (CODE P, S, 4 or N)		N
LADDER	Y/N	N
OVERSIDE LADDER	Y/N	N
BUCKET TRUCK	Y/N	N
BOAT	Y/N	Y
OTHER ()	Y/N	N
SPECIAL INSPECTION REQUESTED FOR :		
NOTE:		
80 INSPECTED BY :	<u>S.R. WILKINSON</u>	
81 REVIEWED BY :	<u>GW</u>	SH. 1 of 1

REV. 4-21-85

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine INSPECTION DATE 5/20/96
 BRIDGE NO. 19 COUNTY Pasquotank ROUTE US 158 OVER Pasquotank River
 STRUCTURE TYPE RC Deck on PCDG - RC cap on RC Piles YEAR BUILT 1931
 LENGTH 846' ROUTE ORIENTATION W. E FOR SPAN 7-6 OF 34 SPANS

EVALUATION CODE: 0 - 2 CRITICAL, 3 & 4 POOR, 5 & 6 FAIR, 7 - 9 GOOD

INSPECTION ITEM				GRADE		ITEM 61				GRADE						
DECK ITEMS																
1 WEARING SURFACE				6		45 CHANNEL & CHANNEL PROT.				a. WATERWAY		5				
2 DECK				32 5						b. ALIGNMENT		7				
NO. OF EA.										c. STEEL PLANK		c. SCOUR		7		
TYPE SPN.										d. OPEN GRID		d. SLOPE PROT., RIP-RAP, DIKES, ETC.				
GRADE												50 APPROACH ROADWAY CONDITION				6
RATES												51 APPROACH SLABS				
SI & A ITEM						52 PAINT SYSTEMS				CODE ()						
58						53 UTILITIES										
3 RAILING				6		54 RESPONSE TO LIVE LOAD				7						
a. CONCRETE				7		55 ESTIMATED REMAINING LIFE				5Y15						
b. TIMBER						60 REGULATORY SIGN NOTICE ISSUED				N						
c. ALUMNUM						61 PROMPT - ACTION NOTICE ISSUED				N						
d. STEEL						62 PRESENTLY POSTED				N						
4 CURBS - WHEEL GUARDS - PARAPETS - MEDIANS				6		63 TOT. FIELD INSP. TIME (INCLUDE WRITE UP) (MH)										
5 WALKWAYS (ON OR ATTACHED TO STRUCTURE)						64 TOTAL SNOOPER INSP. TIME (HRS)				N						
6 DECK EXP. JTS. OR DEVICES						65 TOTAL TRAFFIC CONTROL TIME (MH)				N 8HRS						
NO. OF EACH				8 7		70 SI&A GENERAL CONDITION RATINGS										
7 DECK DEBRIS (INCLUDE EXCESS SAND / GRAVEL)						a. DECK				ITEM 58		5				
SUPER. STR. (FM. 1 (90) B TRUSS) ITEM 59						b. SUPERSTRUCTURE				ITEM 59						
10 LONGITUDINAL BEAMS OR GIRDERS				4		c. SUBSTRUCTURE				ITEM 60						
11 LONGITUDINAL JOIST OR STRINGERS						d. CHANNEL & CHANNEL PROT.				ITEM 61						
12 INT. DIAP'S, X-FRAMES, BRACING, & CONN'S						71 SI&A FIELD APPRAISAL RATINGS										
13 END DIAP'S, CURTAIN WALLS, & CONN'S				5		a. WATERWAY ADAQUACY				8						
14 FLOOR BEAMS AND CONNECTIONS						b. APPR. RDWY. ALIGNMENT				8						
15 BEARINGS ASSEMBLIES (INCLUDE MISALIGN)						72 FIELD SCOUR EVALUATION				0						
16 DRAINAGE SYSTEMS (ON STRUCTURES)				6												
17 MOVABLE SPAN MACHINERY																
SUB. STR ITEMS, ITEM 60 (INCLUDE SCOUR)						USE OF INSP. ACCESSIBILITY EQUIPMENT										
35 TIM. SUB. STR.						SNOOPER (CODE P, S, 4 or N)				N						
a. ABUT. & INT. BENT CAPS & RISERS						LADDER				Y/N						
b. PILES, POST, SILLS, & BRACING						OVERSIDE LADDER				Y/N						
c. BULKHEADS, WING'S, & TIE BACKS						BUCKET TRUCK				Y/N						
36 CONC. SUB STR				4		BOAT 17' x 10'				Y/N						
a. ABUT. & INT. BENT CAPS				5		OTHER (FLOAT & STAGING)				Y/N						
b. ABUT. & BENT COLS & SUPERSTRUCTURE				5						Y						
c. ABUT. & INT. BENT PILES				5						Y						
d. BACKWALLS - WING'S - RETAIN. WALLS				6		SPECIAL INSPECTION REQUESTED FOR:										
e. ABUT. AND BENT FOOTINGS & SILLS						NOTE:										
37 STEEL SUB. STR.																
a. ABUT. & INT. BENT CAPS & RISERS																
b. PILES AND BRACING AND BULKHEADS																
38 FOUNDATION PILES TYPE MATERIAL																
39 SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)																
40 FENDER SYSTEMS																
41 DRIFT				5		80 INSPECTED BY: <u>CWM</u>										
						81 REVIEWED BY: <u>JRJ</u>										

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
HIGHWAY SAFETY
BRIDGE MAINTENANCE UNIT
BRIDGE INSPECTION SECT.

FIELD INSPECTION REPORT
BRIDGE INSPECTION & ANALYSIS

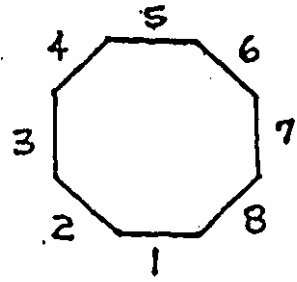
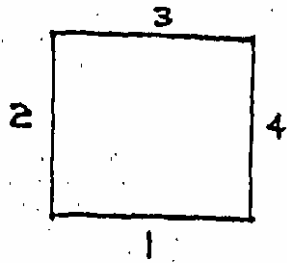
SHT 2
BRIDGE No. 19
ROUTE US 158
COUNTY PASQUOTANK

Team Leader: H. LITCHFIELD Date 10-9-97
Assisted By: B. PRESGRAVE, L. ANDERSON
Item No.

- 36A CAPS - 4 - END BT #1 CAP CRACKED & SPALLED & DELAM. TOP DOWN TO W/L 3'± W X 2'H X 3"± DEEP, UNDER GEORGES. END BT #2 CAP DEGRADED & SPALLED ON ENDS W/ REBAR EXPOSED.
- 36C ABUT & INT BENT PILES - 5 - ALL PILES W/O COLLARS HAVE WATER ACTION W/ COARSE AGGR. EXPOSED 1/2" MAX LOSS. THESE PILES HAVE CRACKS 1/4" TO 1/8" (SEE SHEETS #3, 4, & 5 FOR SIZE & LOCATION).
- 36D RETAIN WALLS - 6 - END BT'S WATER ACTION W/ COARSE AGGR. EXPOSED 1/2" MAX LOSS.
- 40. FENDER SYSTEM - 5 - PILES WEATHERED W/ CRKS 1/4" - 1/2", SOFT 1/4". WHALERS WEATHERED W/ CRKS 1/4" - 1/2", SOFT 1/4" - 1/2". AREAS OF DECAY W/ HEAVY VEGETATION GROWTH. (SEE SHIT #9 FOR LOCATION OF DECAYED AREAS.)

UNDERWATER CONC. PILE INSP.

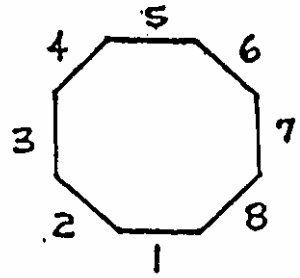
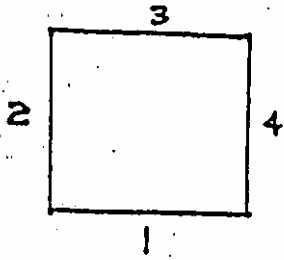
SHT 3



SUBSTRUCTURE			CRACK LENGTH	
BENT	PILE FACE	CRACK SIZE	BELOW WATER	ABOVE WATER
END BT #1	NOT EXPOSED			CAP CRACK, SPALLED & DELAM TOP DOWN TO W/L 3'± W X 2'± X 3'± DEEP
BT #1		P-2, P-3 & P-4 COLLARD COARSE AGGR. EXPOSED 1/4" - 1/2"	REBAR EXPOSED BELOW COLLARS 4" - 1'-0"	
	P-1 & P-5			
BT #2		ALL COLLARD BUT P-6 COLLARS STOP 18" BELOW CAP		
	P-1	F-4, 3 1/16"	COLLAR 3' ABOVE W/L	
	P-2	F-1, 7 & 8 CORNER F-7 & F-8 DELAM. RANDOM 1/4" - 1/8"	TOP OF COLLAR (W/L) COLLAR 3' ABOVE W/L	BOTTOM OF CAP COLLAR JUST ABOVE 3' ABOVE W/L
	P-3	F-1 2 1/4" TO 1/16"	" "	" "
	P-4	F-5, 6 & 7 F-7 1/4" TO 1/16"	COLLAR 3' ABOVE W/L "	" "
	P-5	F-6, 7 & 8 1/4" TO 1/8" W/RUST STAINS	" "	" "
	P-6	F-3 & 4 F-7 1/4"	W/L	" "
	P-7	F-1, 6, 7 & 8 F-5 1/16" - 1/8" W/RUST STAINS 1/2" - 1/8"	TOP OF COLLAR (W/L)	" "
	P-8	F-1, 4, 5 & 8 1/16" W/RUST STAINS	" "	" "
	P-9	F-1, 2, 3 6, 7, & 8 EFFLORES 1/4" TO 1/8" W/RUST STAINS	" "	" "
BT #3		P-1 & P-4 COLLARD TO BOTTOM OF CAP		
	P-2	F-5-6-7 1/16" - 1/8"	1'-0"	2'-0"

UNDERWATER CONC. PILE INSP.

SHT 4



SUBSTRUCTURE			CRACK LENGTH		
BENT	PILE FACE	CRACK SIZE	BELOW WATER	ABOVE WATER	
BT#3	P-2	F-6, 7 & 8 H/L - 1/16"	6"	2'-0"	
	P-3	F-4, 5, 6 & 7 H/L - 1/8" w/ RUST STAINS	1'-0"	2'-0"	
	P-4	F-1, 2, 3 & 8 VARIOUS H/L - 1/8" w/ RUST STAINS	1'-0"	BOTTOM OF CAP	
	P-5	F-5, 6 & 8 H/L - 1/8"	1'-0"	BOTTOM OF CAP	
BT#4		F-1, 2 & 8 P-1 H/L - 1/16" OLD COLLAR		COLLAR TO CAP	
		P-2, 4, 6, 7, 8 & 9 COLLARD			
	P-3	F-1, 2 & 8 H/L - 1/16"	1'-0"	2'-0"	
	P-5	F-5 1/16"	1'-0"	1'-6"	
BT#5		P-1, 2, 3, 4 & 5 COLLARD			
BT#6	LEFT BY GIRDER SUPPORT #2		WATER ACTION w/ COARSE AGG EXPOSED 1/2"	5'-0"	
BT#7	LEFT BY		WATER ACTION w/ COARSE AGG EXPOSED 1/2" w/L	2'-0"	
BT#8		P-2, 3, 4 & 5 COLLARD			
	P-1	COARSE AGGREGATE EXPOSED 1" TO 2" LOSS	4'-0"	1'-0"	
	P-1	F-6 SPALL 6" WIDE x 1" DEEP	1'-0"	6"	
		P-2, 3, 4 & 5 COLLARD			

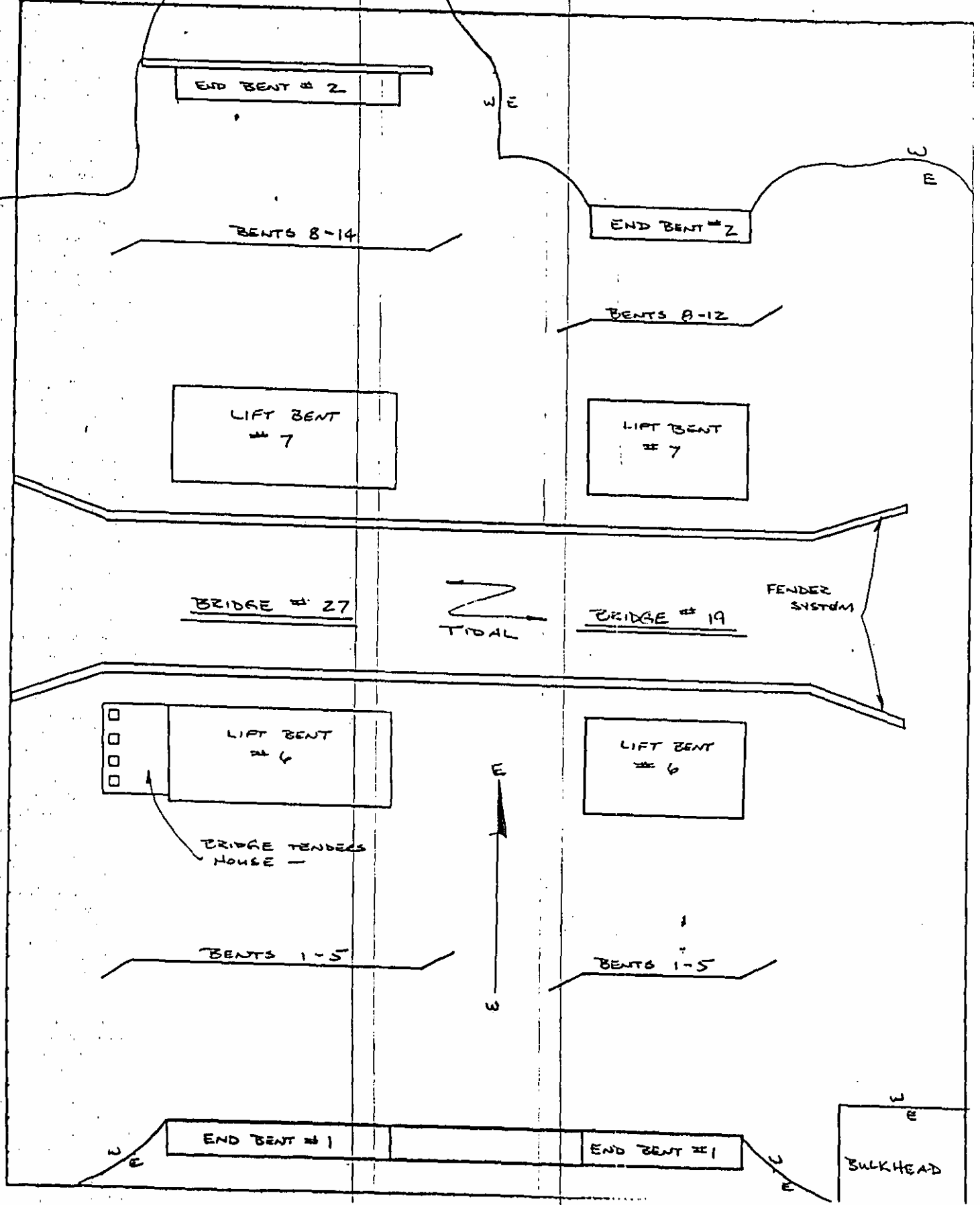
P-3 EAST FACE 3" GAP BETWEEN COLLARS, TIGHT ON WEST SIDE
2" WATER ACTION IN GAP

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SUBJECT BRIDGE # 19 AND # 27 PROJECT _____
PLAN VIEW PASQUOTANK COUNTY

DIVISION OF HIGHWAYS
HIGHWAY BUILDING
P. O. BOX 25201
RALEIGH, NORTH CAROLINA 27611

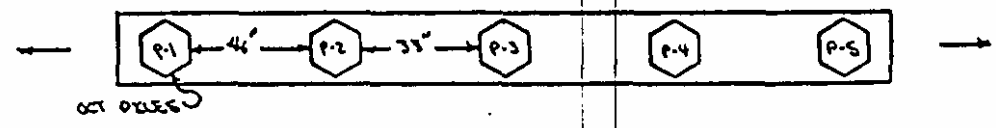
PREPARED BY M.F. DATE 9-13-90 STATION _____
CHECKED BY _____ DATE 8/10-9-97 STR NO. _____ SHEET _____ OF _____



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HIGHWAY BUILDING
P. O. BOX 25201
RALEIGH, NORTH CAROLINA 27611

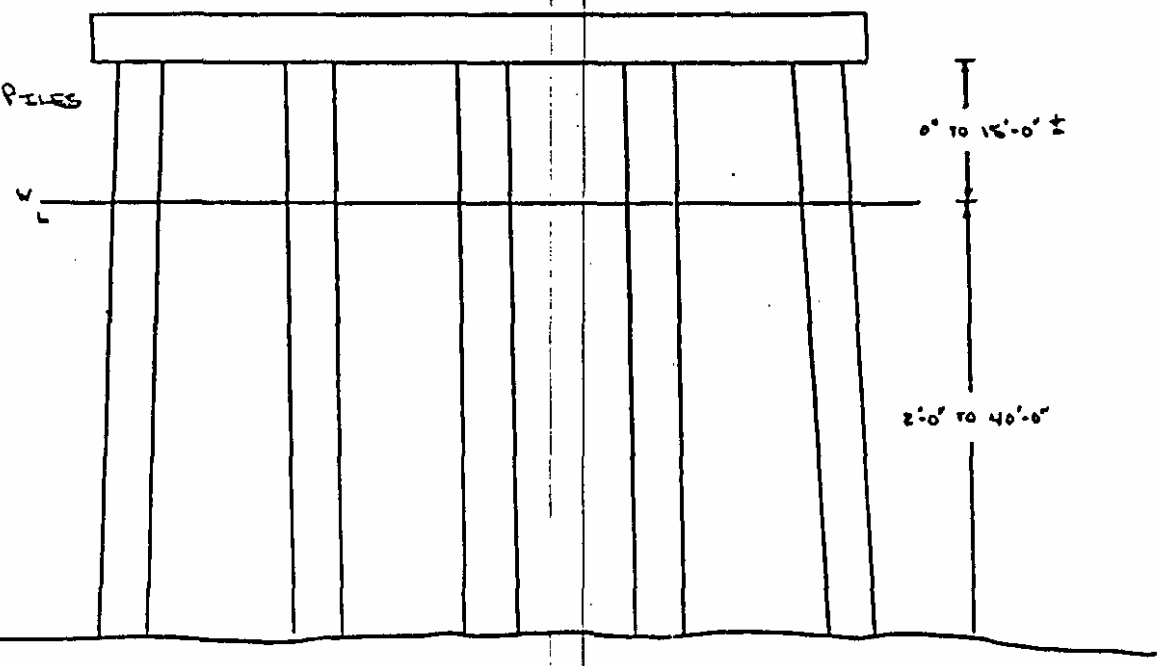
SUBJECT BE #19 RT'S 1,3,5,8,10 & 12 PROJECT W TO E
TYPICAL BENT - 5 PILE PASQUOTANK COUNTY
PREPARED BY H.L. DATE 6-17-86 STATION _____
CHECKED BY P.M.D. DATE 6-17-86 STR NO. _____ SHEET _____ OF _____
8/2 10-9-97

TOP VIEW
FACING EAST



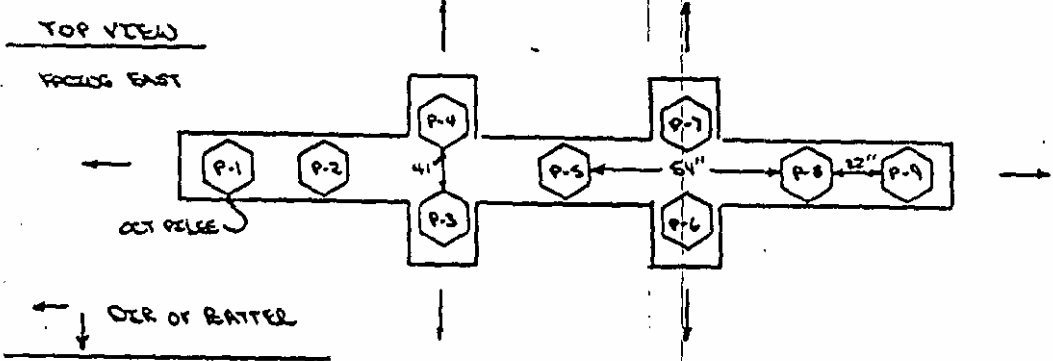
DIA OF BATTER

NOTE: VARIOUS PILES
ARE COLLARED

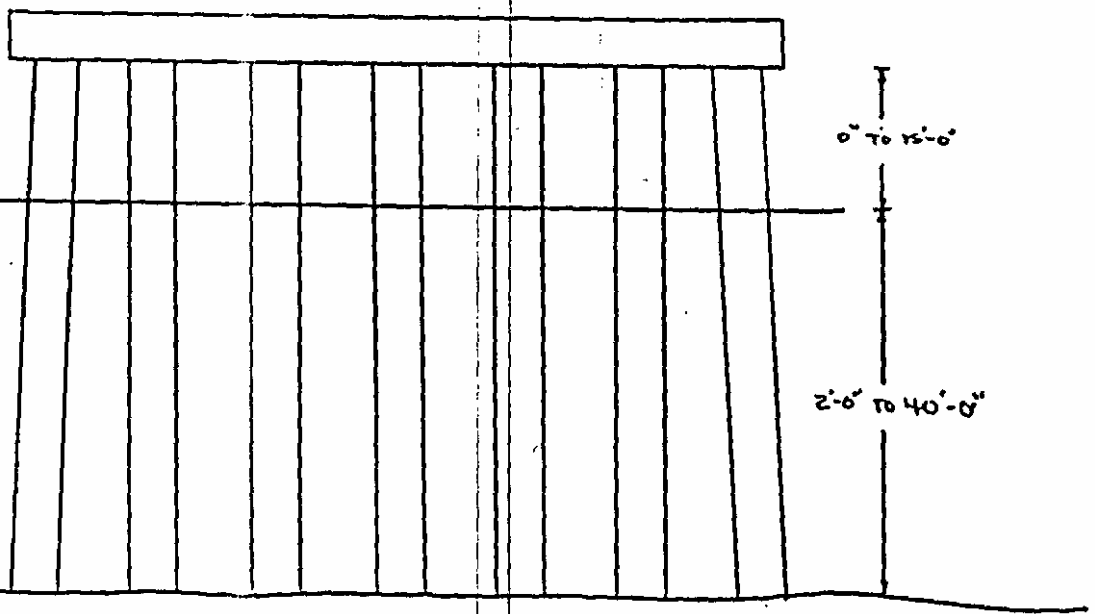


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HIGHWAY BUILDING
P. O. BOX 25201
RALEIGH, NORTH CAROLINA 27611

SUBJECT: BR 19 Gr's 2,4,9+11 PROJECT U TO E
TYPICAL BENT - 9 PILE PROBOUTANK COUNTY
PREPARED BY H.L. DATE 6-17-86 STATION _____
CHECKED BY PHL DATE 6-17-86 STR NO. _____ SHEET _____ OF _____
BR 10-9-97

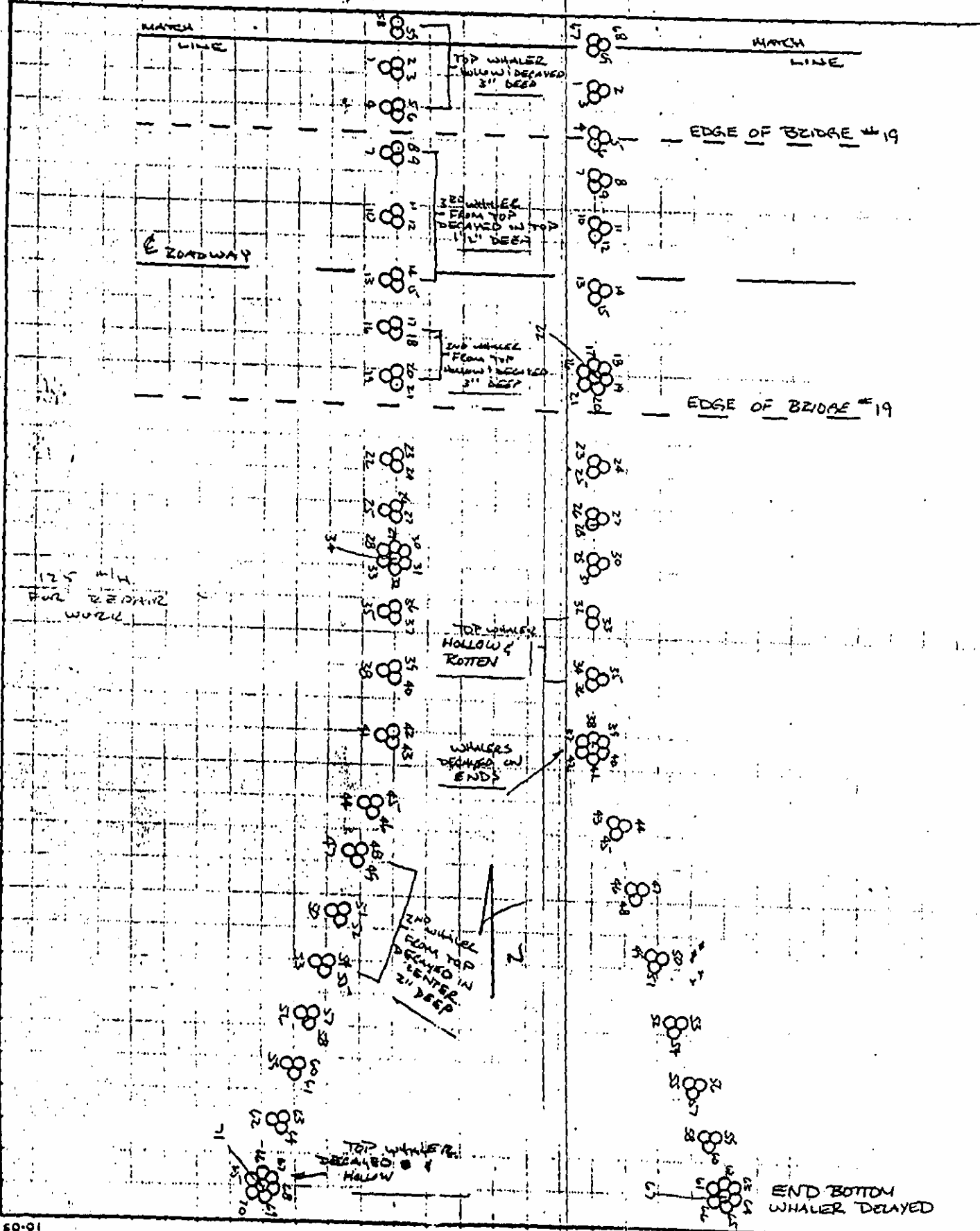


NOTE: VARIOUS PILES
ARE CONNCTED



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HIGHWAY BUILDING
 P. O. BOX 25201
 RALEIGH, NORTH CAROLINA 27611

SHT 9
 SUBJECT BRIDGE # 19 PROJECT PASQUOTANK COUNT _____
FENDER SYSTEM
 PREPARED BY EG DATE 11-10-92 STATION _____
 CHECKED BY _____ DATE BP 10-9-97 STR NO. _____ SHEET _____ OF _____



Dr. H.
Pondwater Co.
Dec 17
1968-69

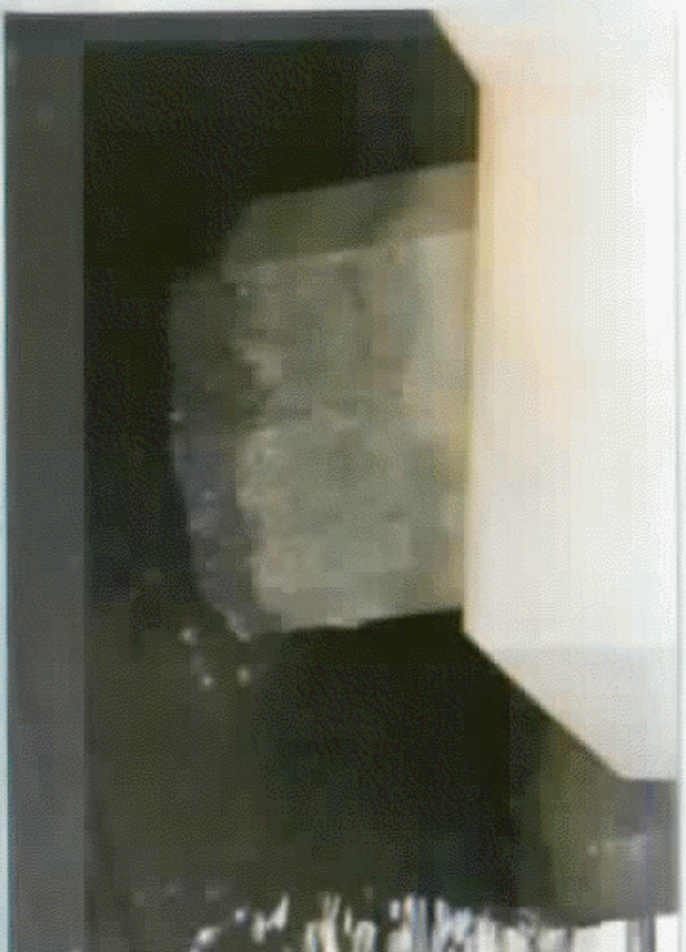


Same boat again

Bridge Pumps looking North



Same boat again



Same pier of water actually from same



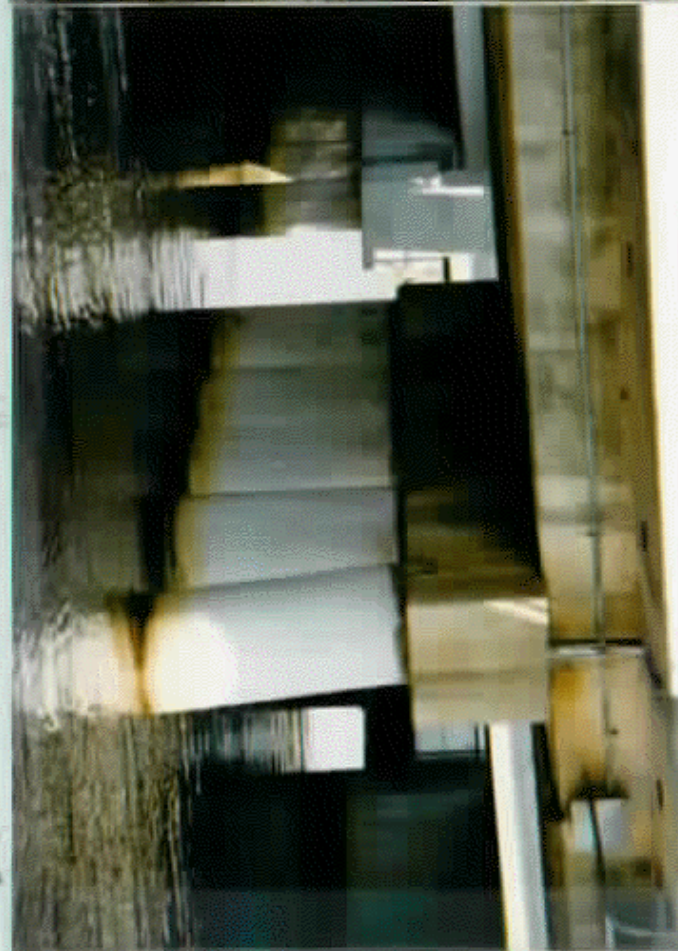
Same pier of water actually from same

SHT-12
PASQUOTANK
BR. = 19
10-9-97

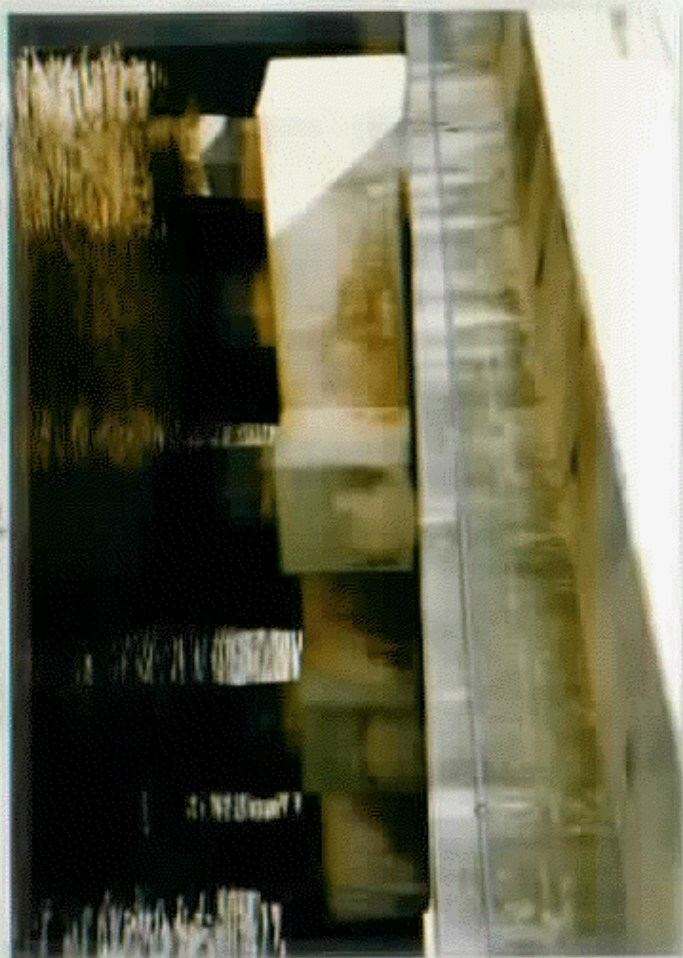
Pile Boat of Calines - SWING - 034



Pile Boat of Calines - SWING - 035



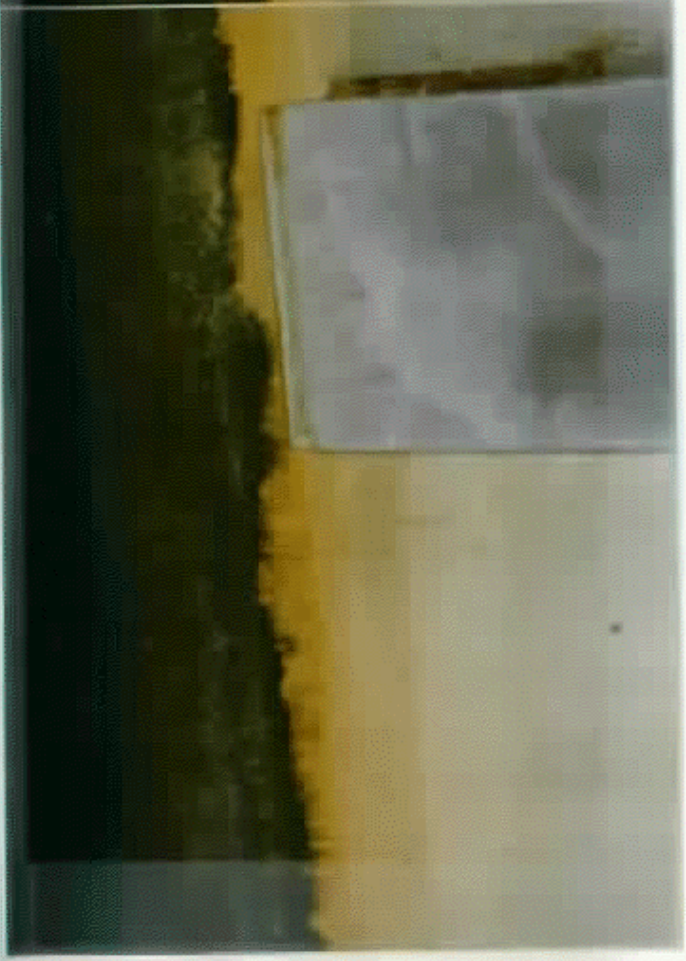
032 Piles located 18' above sea



2001
Paddock - Hill to
St. 10 10-4-97



2001 St. 10 - Paddock Hill to St. 10



2001



2001 St. 10 - White Hill & Saddle Creek
Cape Cod



2001 St. 10 - Paddock Hill to St. 10

SHT-14
PASQUOTANIC
BR #19 FENDER
10-9-87



Starboard Mast



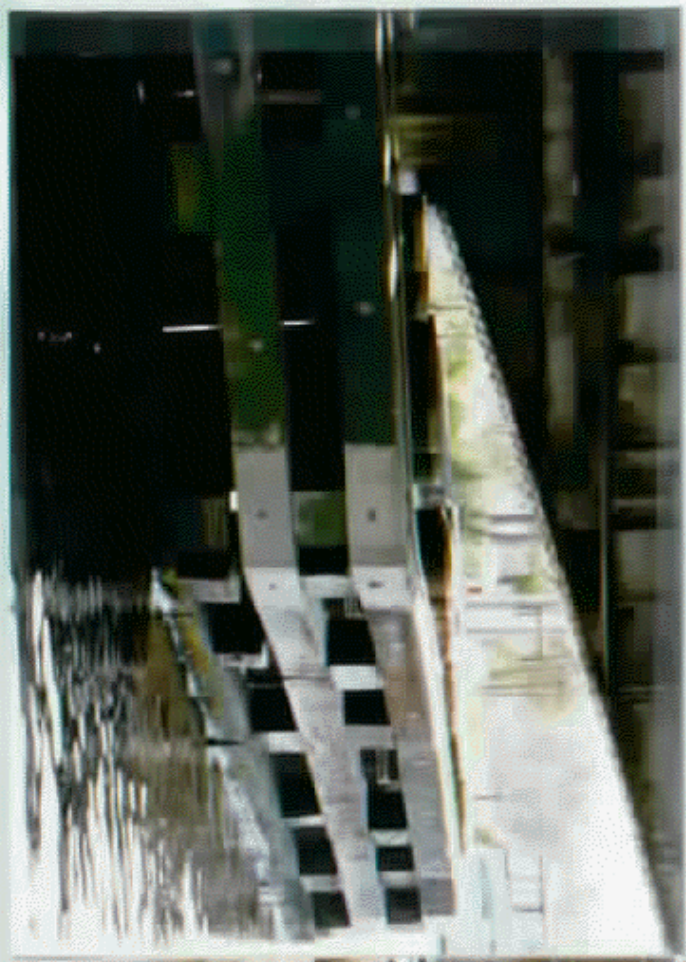
WEST SIDE FENDER



EAST SIDE FENDER

SHT-15
PASOVOTANK
BR. 19 FENDER
10-9-97

EAST SIDE FENDER



WEST SIDE FENDER



SHT - 16
PASQUOTANK
BR 19 FENDER
10-9-97



WOOD PIER FENDER - SMOKE



FENDER - CRUS 4' to 1/2' SMOKE



FENDER 2' PIER - SMOKE