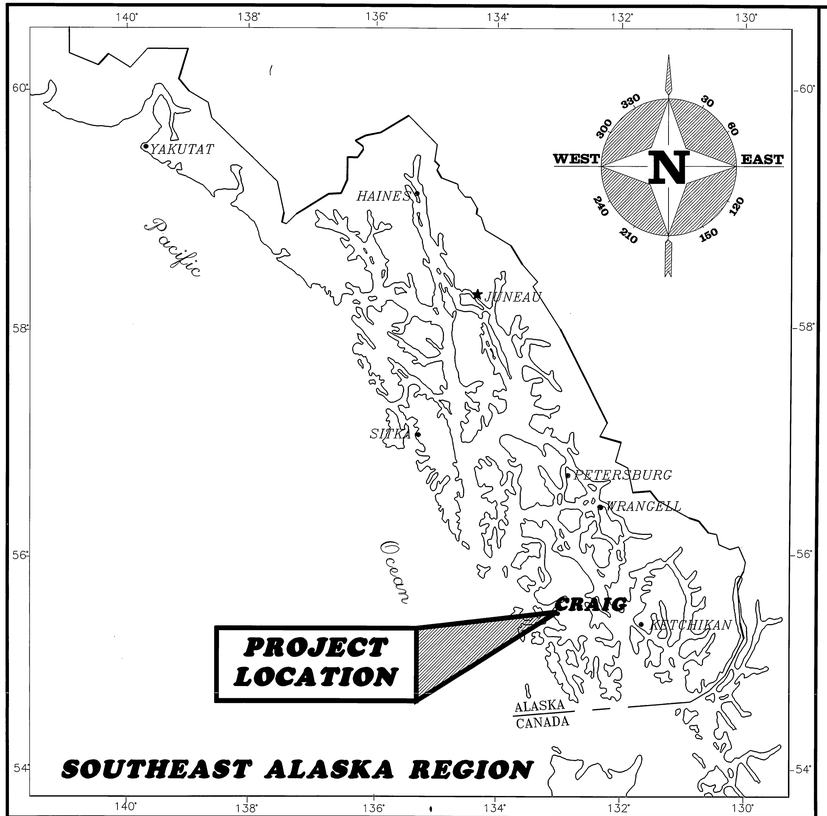


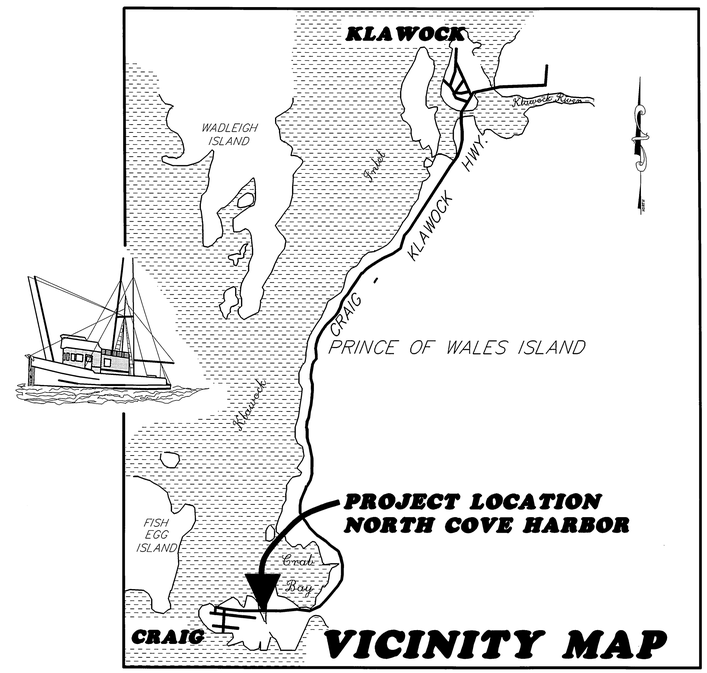
SOUTHEAST ALASKA REGION

DESIGNED BY
THE STATE OF ALASKA
D.O.T./P.F. – S.E. REGION
FOR
THE CITY OF CRAIG, ALASKA

CITY OF CRAIG ALASKA

CRAIG NORTH COVE HARBOR EXPANSION

PROJECT NO. 70649A



VICINITY MAP

INDEX OF SHEETS

PROJECT NUMBER: 70649A

DATE: JULY 1992

SHEET 1 OF 17

ENGINEER'S SEAL

STATE OF ALASKA
49th
D. DOERFLINGER
CE-7567
REGISTERED PROFESSIONAL ENGINEER

P:\CRAIG2\DR\TSHEET 1=1

ESTIMATE OF QUANTITIES

NO.	PAY ITEM	UNIT	QUANT.
110(1)	MOBILIZATION & DEMOBILIZATION	L.S.	ALL REQ'D.
112(1)	CONSTRUCTION SURVEYING BY THE CONTRACTOR	L.S.	ALL REQ'D.
121(1)	DBE INCENTIVE	C.S.	ALL REQ'D.
201(1)	SALVAGE EXISTING STEEL PILES	EA.	27.00
301(1)	FURNISH 12 3/4" DIA. X 3/8" STEEL PILES	L.F.	3,252.00
301(2)	DRIVE PILES	EA.	60.00
311(1A)	10' X 175 TIMBER MAIN FLOAT	L.S.	ALL REQ'D.
311(1B)	10' X 137.5' TIMBER FINGER FLOAT	L.S.	ALL REQ'D.
311(1C)	10' X 175 TIMBER FINGER FLOAT	L.S.	ALL REQ'D.
311(2)	6' X 50' STALL FLOAT	EA.	6.00
311(3)	3'-2 1/2" X 40' STALL FLOAT	EA.	6.00
311(4)	RELOCATE EXIST. 10' X 125' TIMBER FLOAT	L.S.	ALL REQ'D.
311(5)	RELOCATE EXIST. 12' X 300' LOG FLOAT	L.S.	ALL REQ'D.
402((1)	WATER SYSTEM	L.S.	ALL REQ'D.
660(5)	ELECT. LIGHTING, THAW WIRE & POWER SYSTEM	L.S.	ALL REQ'D.

PILING SUMMARY

PILE NO.	PENETRATION *	ORIG. GRND. ELEVATION	PILE CUTOFF ELEVATION	PILE LENGTH **
1	40'	-26'	+32	98'
2	35'	-23'	+32	90'
3	35'	-27'	+32	94'
4	35'	-24'	+32	76'
5	25'	-19'	+32	76'
6	25'	-24'	+32	81'
7	20'	-21'	+32	73'
8	20'	-15'	+32	67'
9	20'	-17'	+32	69'
10	20'	-19'	+32	71'
11	20'	-14'	+32	66'
12	20'	-16'	+32	68'
13	20'	-16'	+32	68'
14	20'	-18'	+32	70'
15	20'	-19'	+32	71'
16	20'	-22'	+32	74'
17	20'	-25'	+32	77'
18	20'	-25'	+32	77'
19	25'	-26'	+32	83'
20	25'	-27'	+32	84'
21	30'	-29'	+32	91'
22	40'	-32'	+32	104'
23	40'	-30'	+32	102'
24	40'	-31'	+32	103'
25	40'	-33'	+32	105'
26	40'	-34'	+32	106'
27	35'	-31'	+32	98'
28	30'	-26'	+32	88'
29	30'	-27'	+32	89'
30	30'	-30'	+32	92'
31	30'	-31'	+32	93'
32	25'	-27'	+32	84'
33	20'	-20'	+32	72'
34	20'	-22'	+32	74'
35	20'	-25'	+32	77'
36	20'	-26'	+32	78'
37	20'	-21'	+32	73'
38	40'	-32'	+32	104'
39	40'	-33'	+32	105'
40	40'	-33'	+32	105'
41	40'	-34'	+32	106'
42	40'	-34'	+32	106'
43	40'	-36'	+32	107'
44	40'	-36'	+32	107'
45	25'	-24'	+32	81'
46	25'	-25'	+32	82'
47	25'	-27'	+32	84'
48	30'	-30'	+32	92'
49	30'	-31'	+32	93'
50	35'	-33'	+32	100'
51	40'	-37'	+32	109'
52	40'	-37'	+32	109'
53	40'	-37'	+32	109'
54	40'	-38'	+32	110'
55	40'	-37'	+32	109'
56	40'	-37'	+32	109'
57	35'	-35'	+32	102'
58	30'	-31'	+32	93'
59	30'	-31'	+32	93'
60	30'	-29'	+32	91'
			TOTAL =	5368
		*** REUSABLE EXIST. PILING =		2116
			NET TOTAL =	3252

GENERAL NOTES

1. ALL STEEL HARDWARE SHALL BE HOT DIP GALVANIZED UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL BOLTS IN CONTACT WITH WOOD SURFACE SHALL HAVE ECONOMY HEAD BOLTS. A MALLEABLE IRON WASHER SHALL BE PLACED BETWEEN ALL NUTS AND WOOD SURFACES.
3. COUNTERSINK ALL BOLT HEADS FACING DECKING.
4. ALL TIMBER SHALL BE S4S EXCEPT FOR DECKING (MILLED S1S2E)& SIDING (RESAWN).
5. SEE SHEET 4 FOR THE NUMBERING SYSTEM OF STEEL PILING.
6. AS-BUILT DRAWINGS SHOWING LENGTHS OF EXISTING PILINGS ARE AVAILABLE UPON REQUEST.
7. SEE SPECIAL PROVISION FOR CONSTRUCTION RESTRICTIONS AS STATED IN THE ISSUED PERMITS.
8. CONTRACTOR'S OPERATION SHALL NOT CONFLICT WITH BOAT TRAFFIC TO EXISTING FACILITY. BOAT ACCESS TO FLOAT FACILITY SHALL REMAIN ACCESSIBLE AT ALL TIMES EXCEPT AT THE FLOATS THAT WILL BE RELOCATED.

LEGEND

D-3 / 3 — DETAIL NUMBER / PLAN SHEET NUMBER

S-3 / 8 — SECTION NUMBER / PLAN SHEET NUMBER

*PENETRATION IS APPROXIMATE, MAY VARY FROM A MINIMUM OF 20' TO A MAXIMUM OF 40'

**PILE LENGTHS ARE APPROXIMATE, ONLY FOR ESTIMATING PURPOSES.

***PILINGS FROM EXISTING FLOATS TO BE RELOCATED.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CRAIG ALASKA

ESTIMATE OF QUANTITIES

DESIGNED BY: D. SALDIVAR	PROJECT NO. 70469A
DRAWN BY: AUTOCADD/C. Anderson	DATE: JULY, 1992
CHECKED BY: D. DOERFLINGER	SHEET 2 OF 17

STATE OF ALASKA 49th D. DOERFLINGER CE-7567 REGISTERED PROFESSIONAL ENGINEER

Basis of Control

The basis of horizontal control is the aligment of existing main float. The new float shall match existing alignment. Finger float shall be aligned perpendicular to the main float.

The basis of vertical control is CS–8 with an elevation of +10.63 above MLLW.

TIDAL DATA

EHW	14.0
EHT	12.8
MHHW	10.0
MHW	9.2
MTL	5.3
MLLW	0.0
ELW	–4.0

CS–9
5 rebar with
DOT&PF plastic cap
N 32,330.4977
E 94,910.6562
ELEV. 10.01
CS–8
5 rebar with
DOT&PF plastic cap
N 32,031.0100
E 94,849.6349
ELEV. 10.63
N 11°30'59" E
305.641'
Existing riprap
MHW
MLLW
Craig Fisheries, Inc.
TRACT L
ATS 749
ATS 788
To Klawock
205'
200'
170'
170'
6'X50' Stall Floats Typ. this Finger
New 10'x175' Finger Float "J"
New 10'x137.5' Finger Float "I"
Relocate existing 10'x125' Finger Float "E" with 4–6'x50' stalls as shown.
3'–2 1/2"x40' Stall Floats, typical this finger
Existing 6'x50' Stall Floats
3 piles @ 50' c to c = 100'
6 piles @ 50' c to c = 250'–0"
12'x300' Existing Log Float "G" (Relocated)
New 10'x175' Main Float "K"
Existing 60' x 350' Concrete Breakwater
S–3 10
S–1 10
Exist. Gangway Float
N 00°10'00" E
℄ Float
EXISTING LAUNCH RAMP
Exist. 6' wide Timber Approach
Existing 10'x130' Timber Approach
Relocated 10'x125' Finger Float "E"
Exist. 6'X50' Stall Floats
Existing 12'x300' log float "G" with 5–6'x50' stalls shall be relocated as shown
7 piles @ 25' c. to c. = 150'–0'
12.5'
℄ Splice between existing and new float
EDGE OF ROAD
EDGE GRAVEL
23A
23
COVE STREET
TRACT C–T
TRACT C
Scale in Feet
0 50' 100' 150'

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

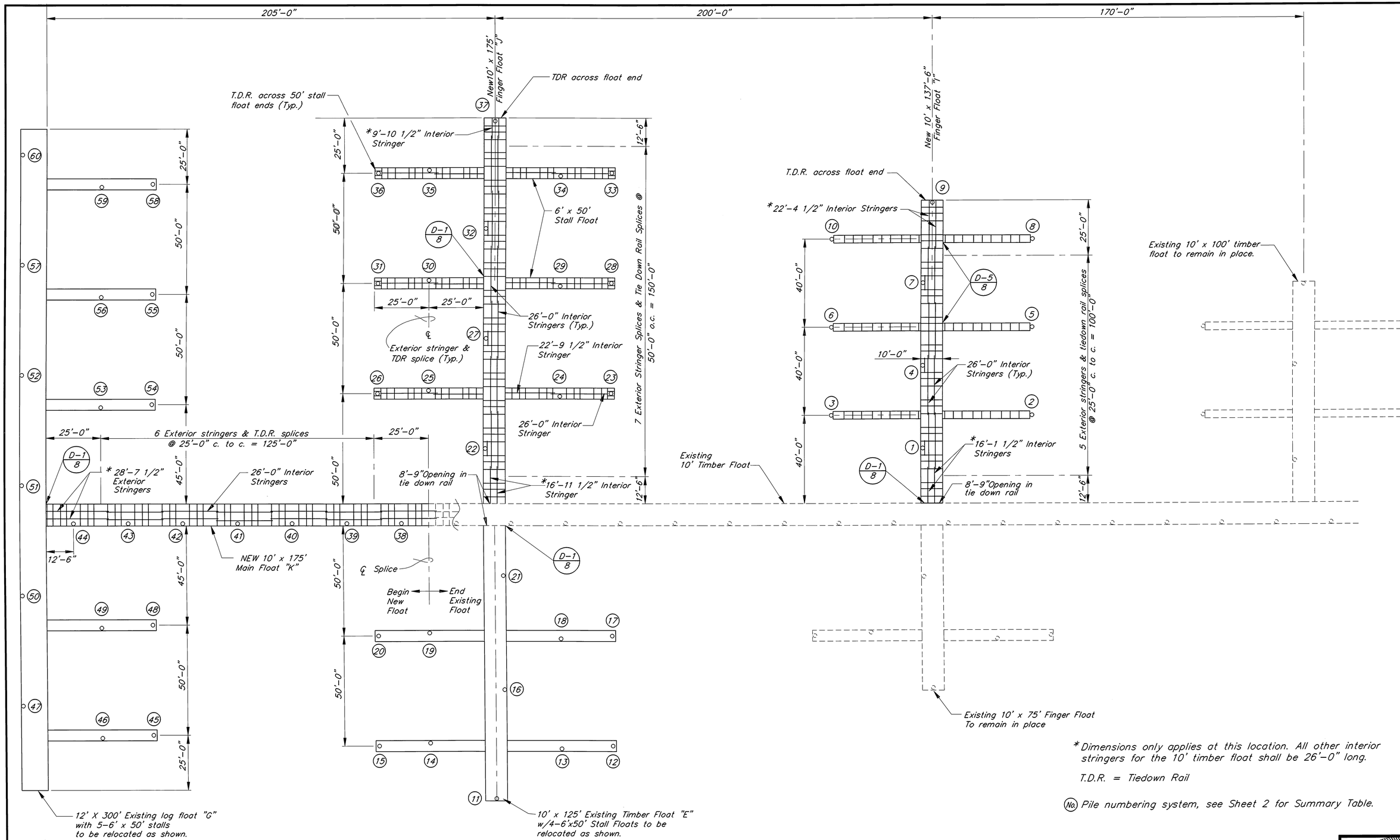
CRAIG — ALASKA

FLOAT LAYOUT

DESIGNED BY: D.D. Saldivar	PROJECT No. 70649A
DRAWN BY: AutoCAD / BWB	DATE: JULY 1992
CHECKED BY: D.F. Doerflinger	SHEET 3 OF 17

STATE OF ALASKA 49th D.F. Doerflinger CE-7567 REGISTERED PROFESSIONAL ENGINEER

P:\CRAIG2\DR\CRAIGB 1=50 PLOT VIEW:NCOVE



*Dimensions only applies at this location. All other interior stringers for the 10' timber float shall be 26'-0" long.

T.D.R. = Tiedown Rail

(No.) Pile numbering system, see Sheet 2 for Summary Table.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

Craig Alaska

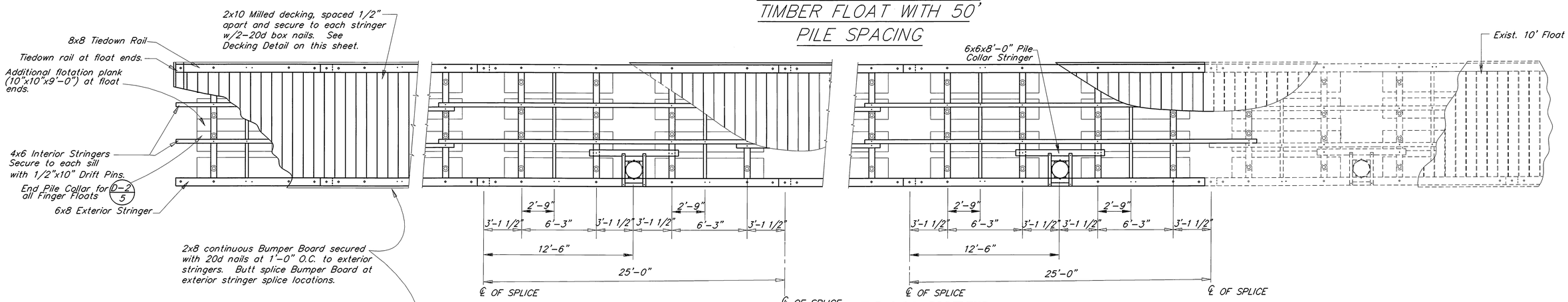
STRINGER LAYOUT

DESIGNED BY: D. SALDIVAR	PROJECT NO. 70649 A
DRAWN BY: AUTOCAD/R. SNYDER	DATE: JULY 1992
CHECKED BY: D. DOERFLINGER	SHEET 4 OF17

STATE OF ALASKA 49th D. Doerflinger CE 7567 REGISTERED PROFESSIONAL ENGINEER

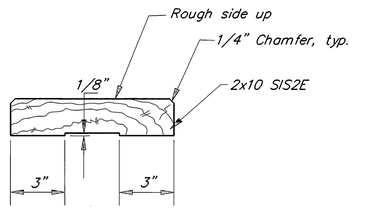
P:\CRAIG2\DR\2ULSTR 1=20

SEE FLOAT LAYOUT FOR TIMBER FLOAT WITH 50' PILE SPACING

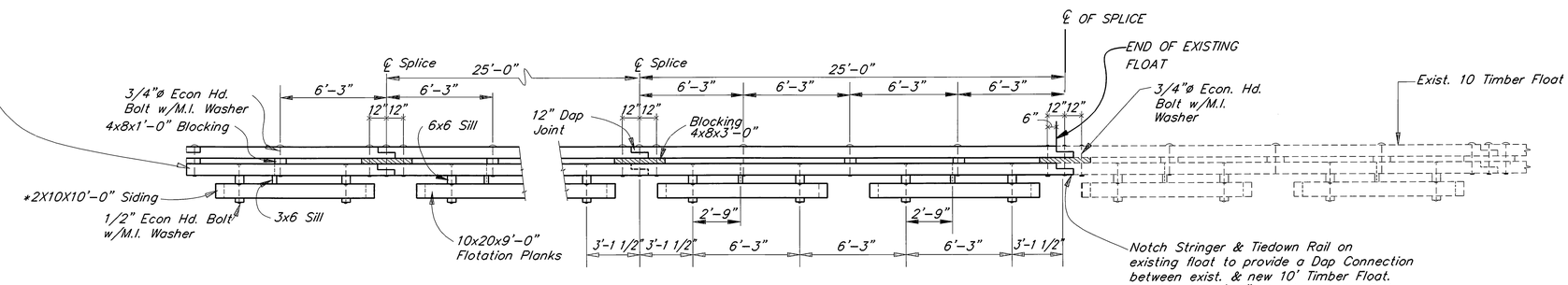


PLAN VIEW

10' Float

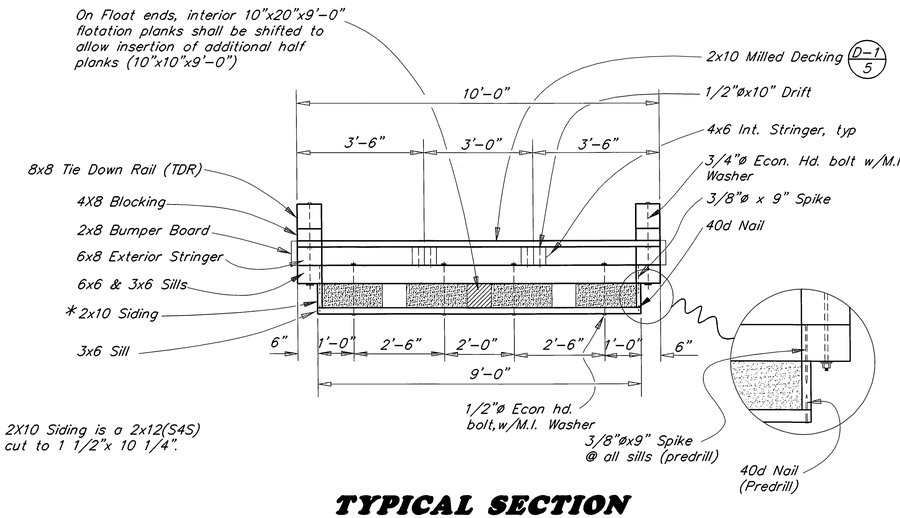


MILLED DECKING DETAIL 1



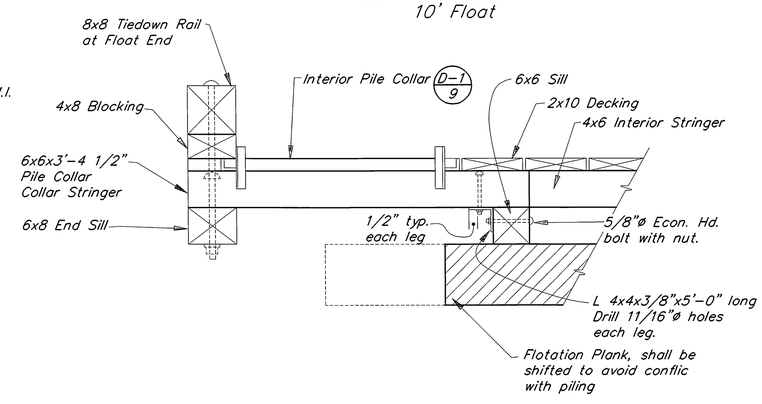
ELEVATION

10' Float

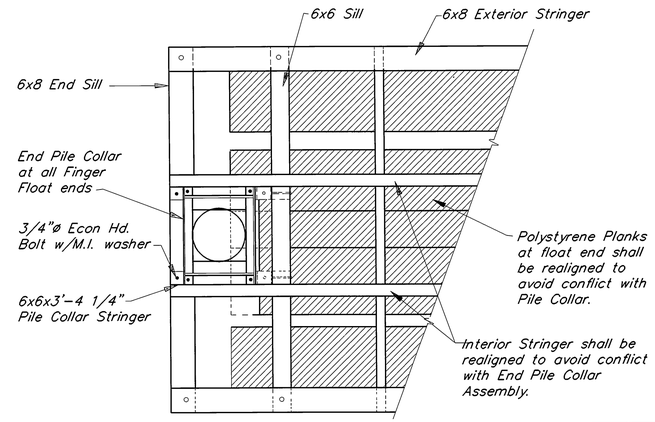


TYPICAL SECTION

10 ' FLOAT



SECTION 1



END PILE COLLAR DETAIL 1

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

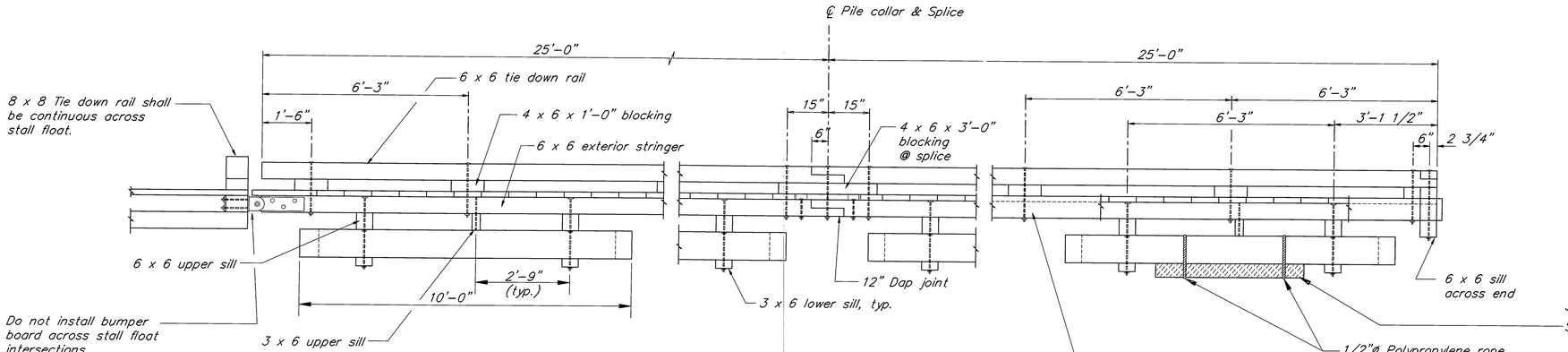
Craig Alaska

10' TIMBER FLOAT

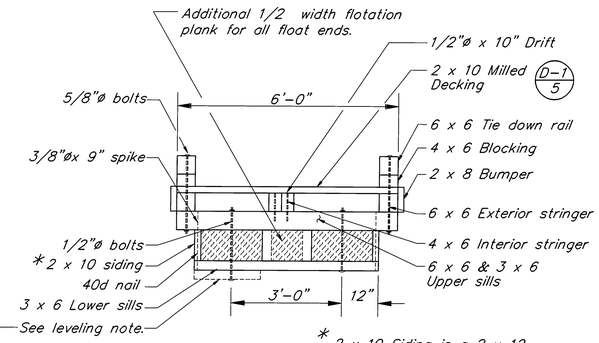
DESIGNED BY: D. SALDIVAR	PROJECT NO. 70649A
DRAWN BY: AUTOCADD / CSA	DATE: JULY, 1992
CHECKED BY: D. DOERFLINGER	SHEET 5 OF 17

ENGINEER'S SEAL
STATE OF ALASKA 49th
D. DOERFLINGER CD-7567
REGISTERED PROFESSIONAL ENGINEER

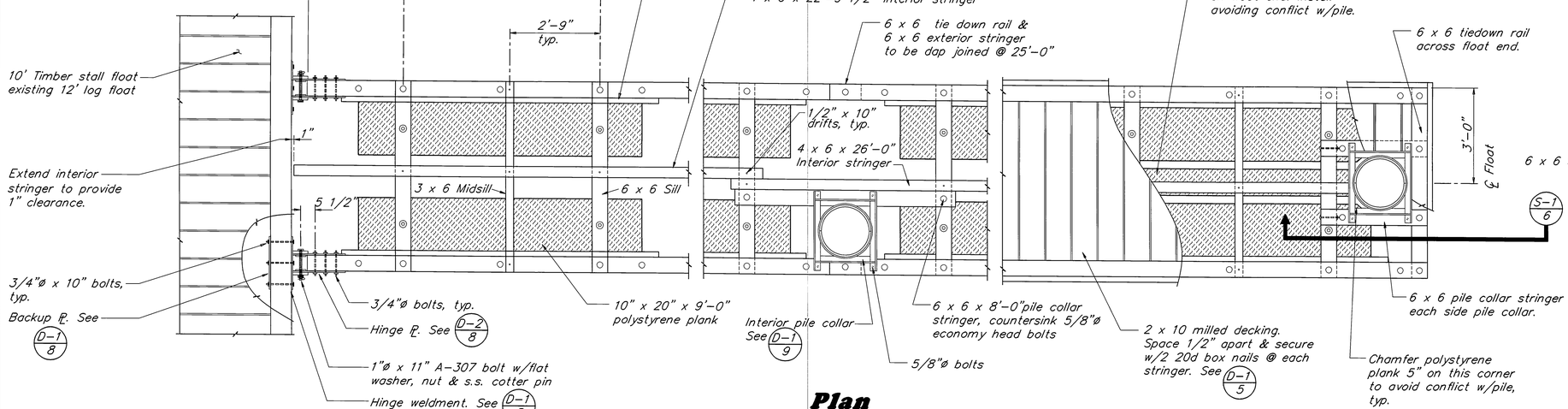
p:\craig2\dr\float10 1=48



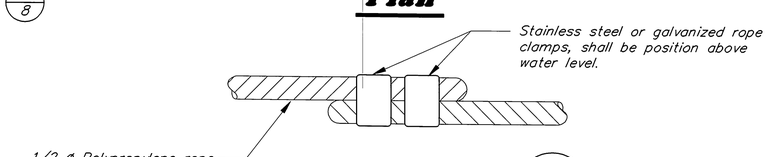
Elevation



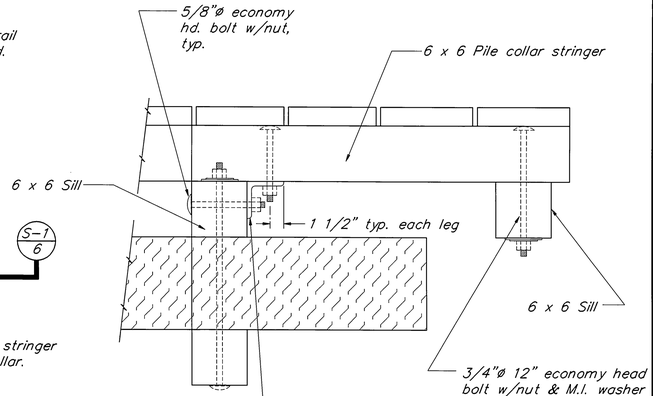
Typical Section



Plan



Rope Clamps Detail 1



Section End Pile Collar Stringer 1

LEVELING NOTE

For leveling, provide twenty five 5" x 20" x 4'-6" coated polystyrene planks. Where leveling is required, place leveling plank between lower sill members. Secure each leveling plank with two 1/2" polypropylene rope. Unused leveling planks shall be given to the City of Craig Harbormaster.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

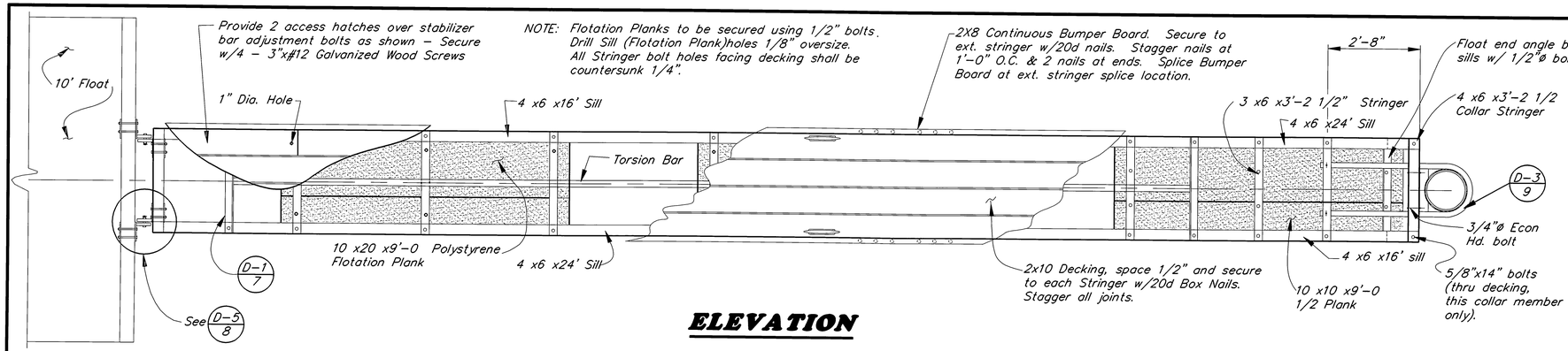
Craig Alaska

6' x 50' STALL FLOAT

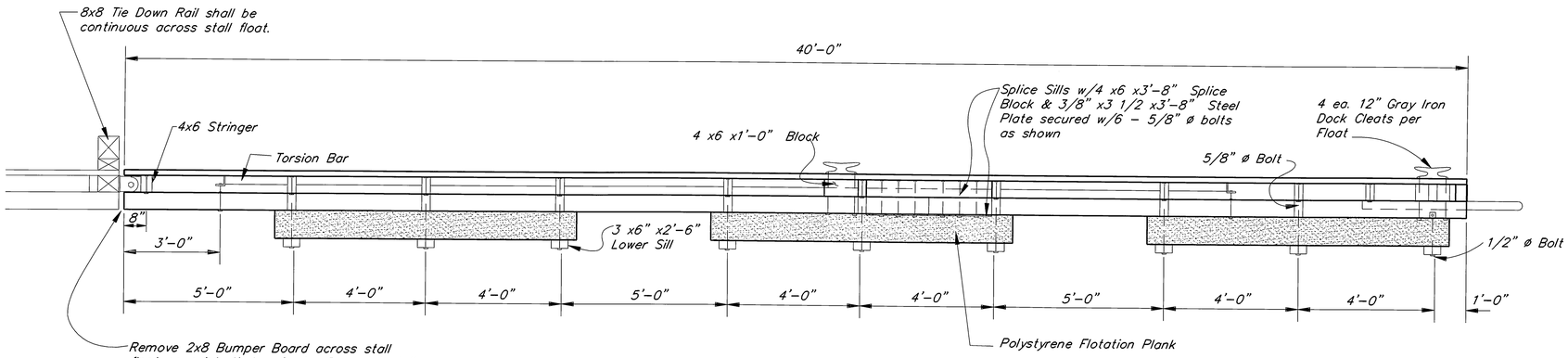
DESIGNED BY: D. SALDIVAR	PROJECT NO. 70649 A
DRAWN BY: AUTOCAD/R. SNYDER	DATE: JULY 1992
CHECKED BY: D. DOERFLINGER	SHEET 6 OF 17

STATE OF ALASKA ★ 49th ★ D. Doerflinger CE 7567 REGISTERED PROFESSIONAL ENGINEER

P:\CRAIG2\DR\250FLOAT 1=24

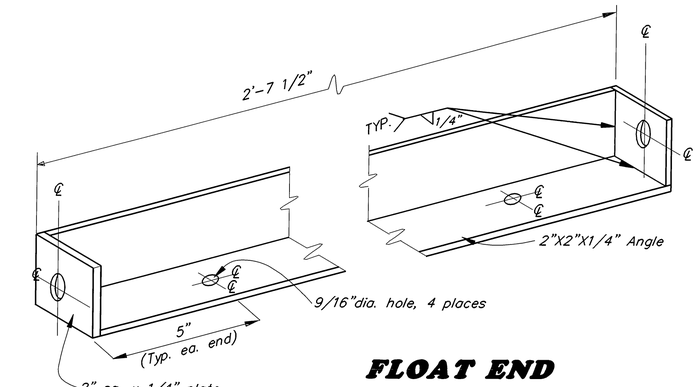


ELEVATION

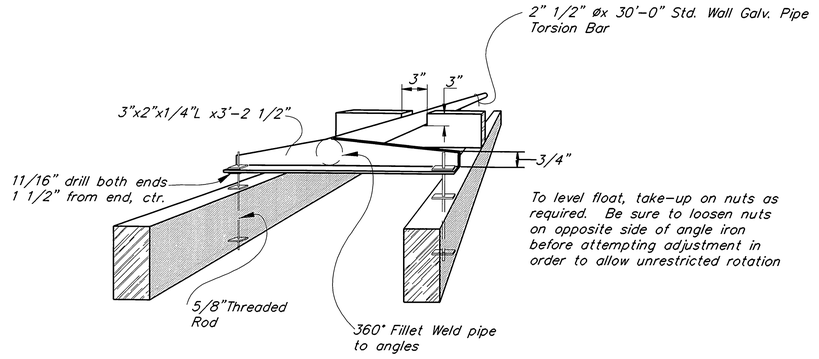


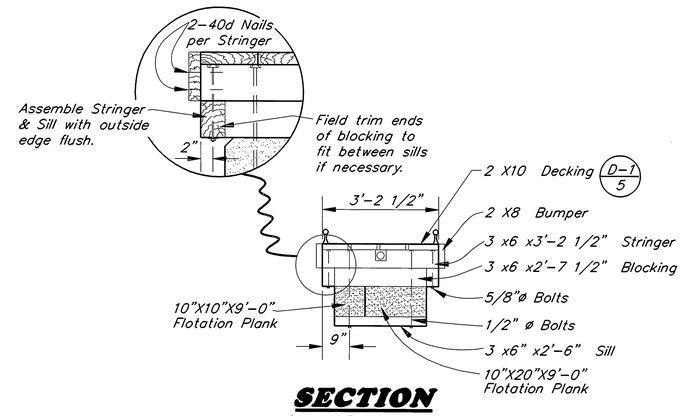
PLAN

3'–2 1/2" X 40'–0" STALL FLOAT



FLOAT END ANGLE DETAIL 2





STALL FLOAT STABILIZER DETAILS 1

SECTION

3'–2 1/2" FLOAT SECTION

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA 49th D. DOERFLINGER CE–7567 REGISTERED PROFESSIONAL ENGINEER

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

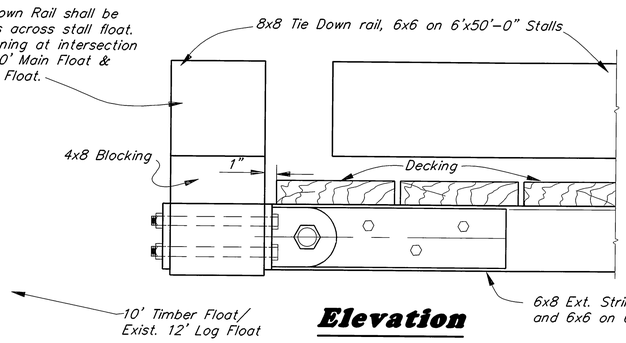
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

Craig ALASKA

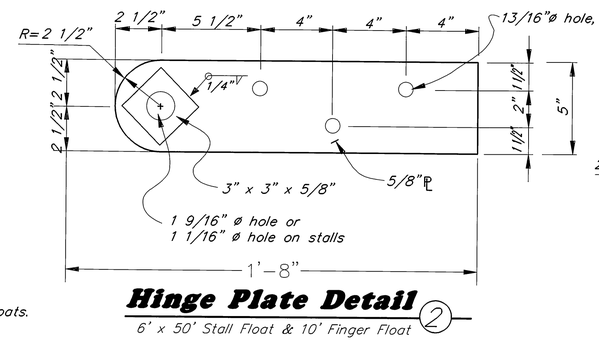
3'–2 1/2" x 40' STALL FLOAT

DESIGNED BY: D. SALDIVAR	PROJECT NO. 70469A
DRAWN BY: AUTOCADD/ CSA	DATE: JULY 1992
CHECKED BY: D. DOERFLINGER	SHEET 7 OF 17

P: \CRAIG2\DR\FLOAT3 1=24

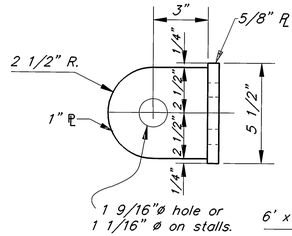


Elevation

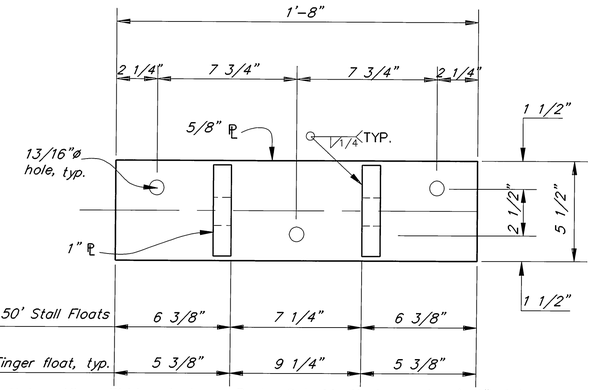


Hinge Plate Detail (2)

6' x 50' Stall Float & 10' Finger Float



Profile

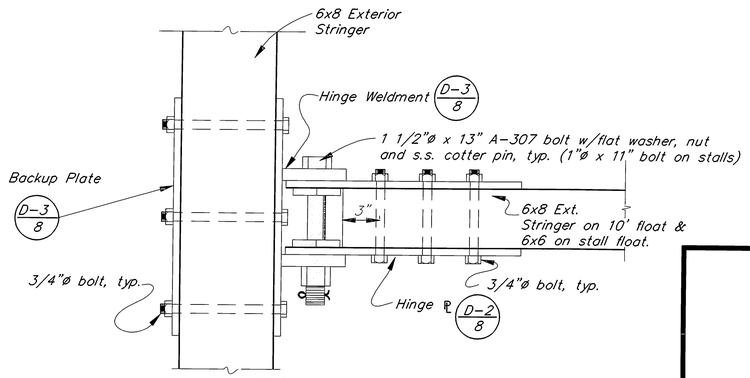


Note: HInge Weldment shown, Backup ℄ is identical except w/o 1" plates.

Elevation

HINGE WELDMENT & BACKUP PLATE (3)

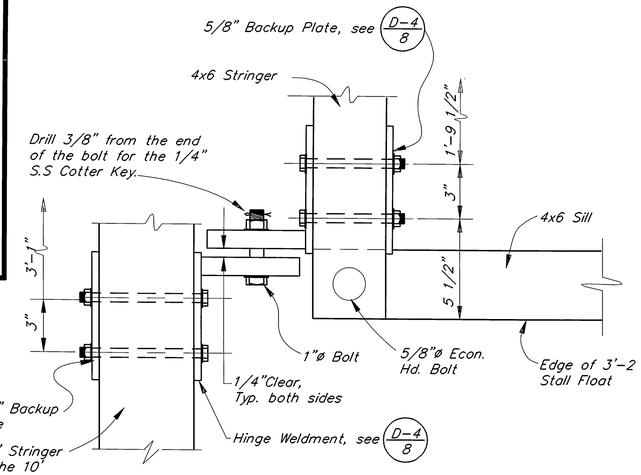
6' x 50' Stall Float & 10' Finger Float



Plan

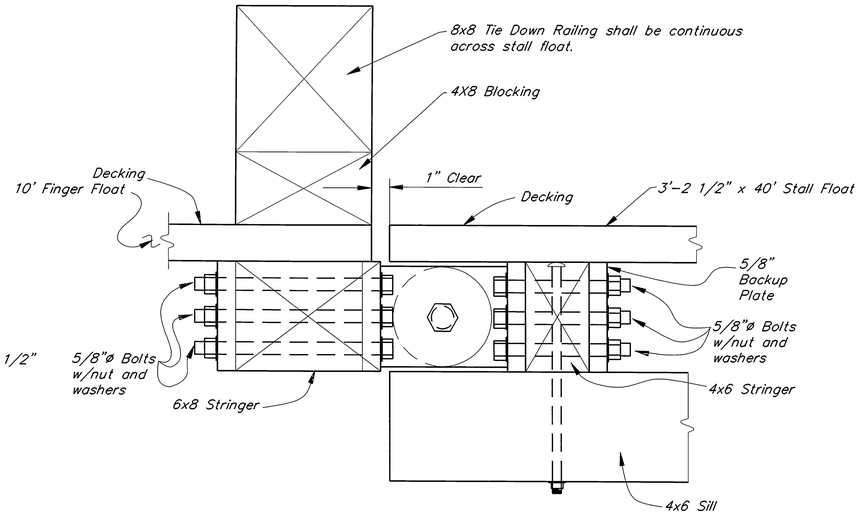
HINGE CONNECTION DETAIL (1)

6' x 50' Stall Float 10' Finger Float



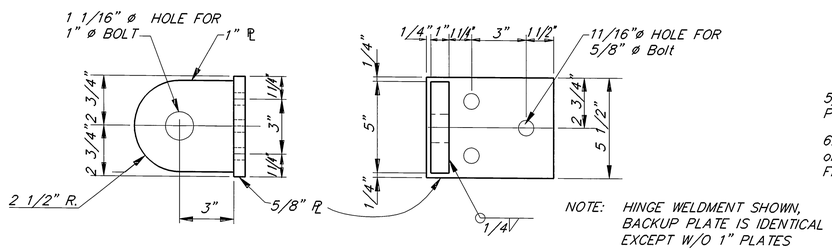
Plan

3'-2 1/2" X 40' Stall Float



Elevation

3'-2 1/2" X 40' Stall Float



Profile **Elevation**

HINGE WELDMENT & BACKUP PLATE (4)

3'-2 1/2" X 40' Stall Float

HINGE CONNECTION DETAIL (5)

3'-2 1/2" X 40' Stall Float

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

Craig Alaska

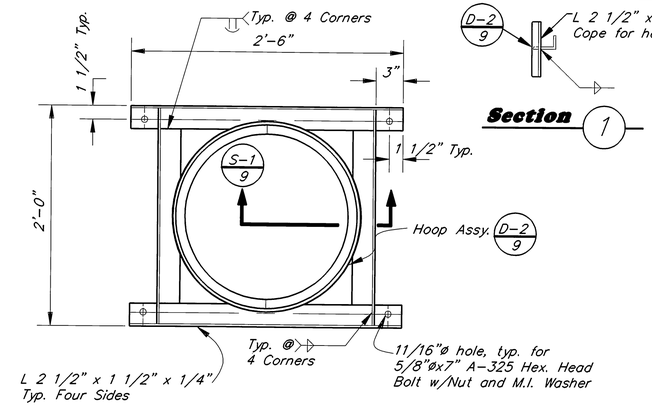
HINGE CONNECTION DETAILS

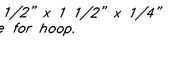
DESIGNED BY: D. SALDIVAR	PROJECT NO. 70649A
DRAWN BY: AUTOCADD/CSA	DATE: JULY 1992
CHECKED BY: D. DOERFLINGER	SHEET 8 OF 17

ENGINEER'S SEAL

STATE OF ALASKA 49th
D. DOERFLINGER
CE-7567
REGISTERED PROFESSIONAL ENGINEER

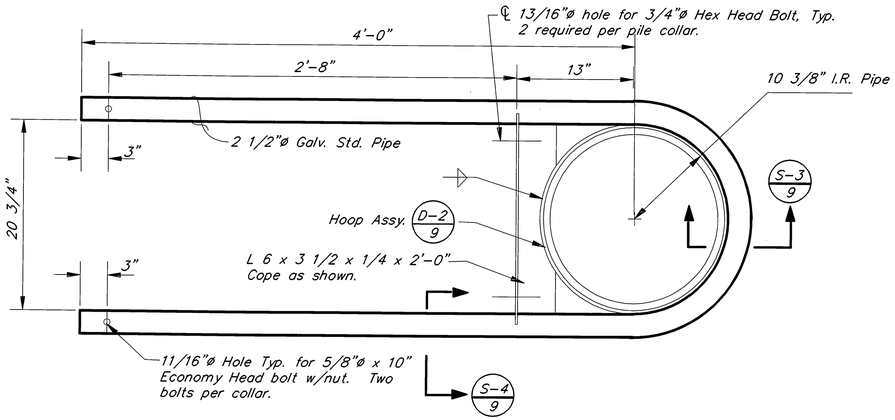
P:\CRAIG2\DR\HINGE 1=4



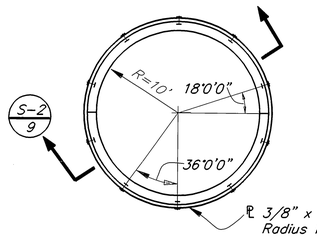


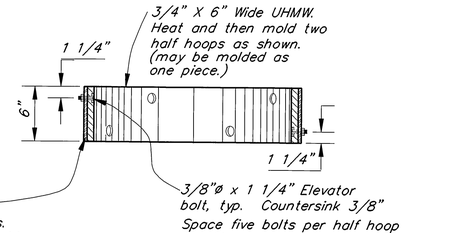
Section 1

INTERIOR PILE COLLAR DETAIL 1



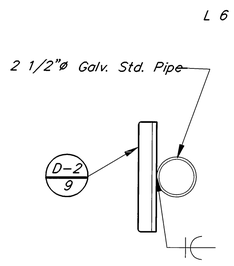
EXTERIOR PILE COLLAR DETAILS 3



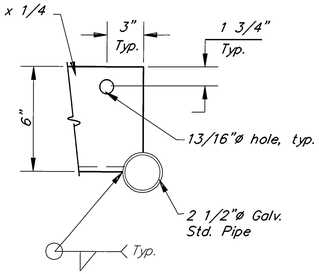


Section 2

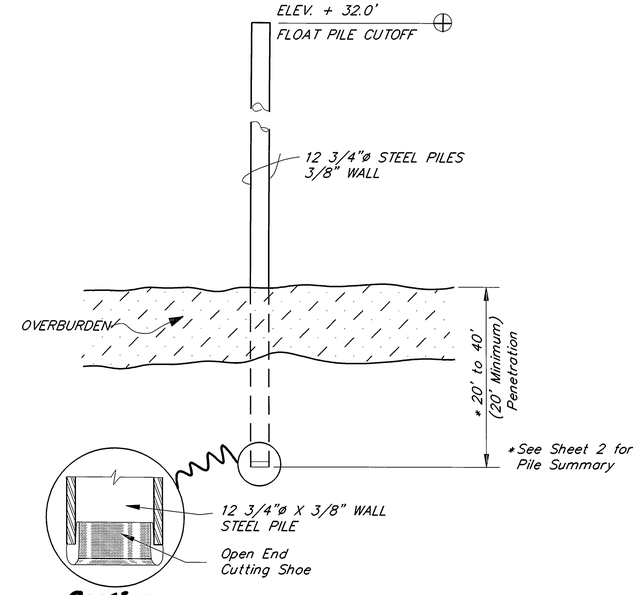
HOOP ASSEMBLY DETAIL 2



Section 3



Section 4



Section of Pile and Shoe

STEEL PILE DETAIL 4

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

Craig Alaska

PILE COLLAR DETAILS

DESIGNED BY: D. SALDIVAR	PROJECT NO. 70649A
DRAWN BY: AUTOCADD / CSA	DATE: JULY 1992
CHECKED BY: D. DOERFLINGER	SHEET 9 OF 17

ENGINEER'S SEAL
STATE OF ALASKA
49th
D. DOERFLINGER
CE-7567
REGISTERED PROFESSIONAL ENGINEER

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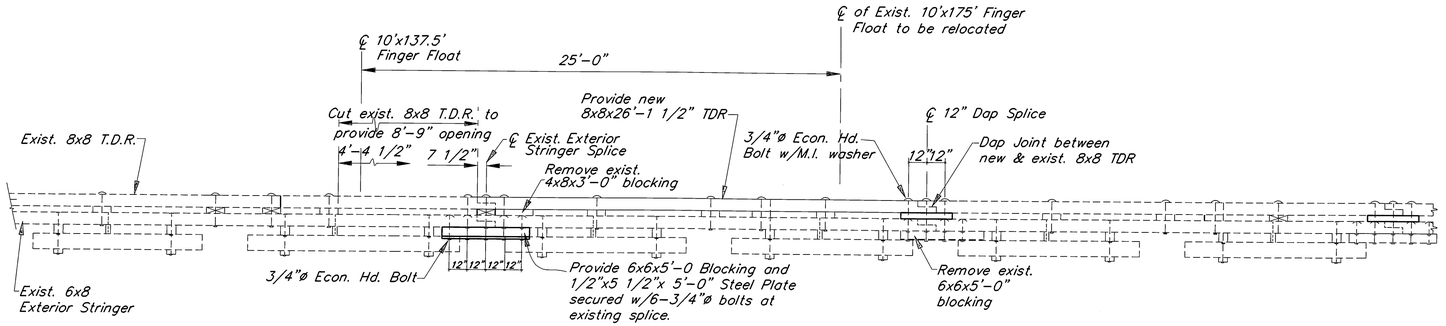
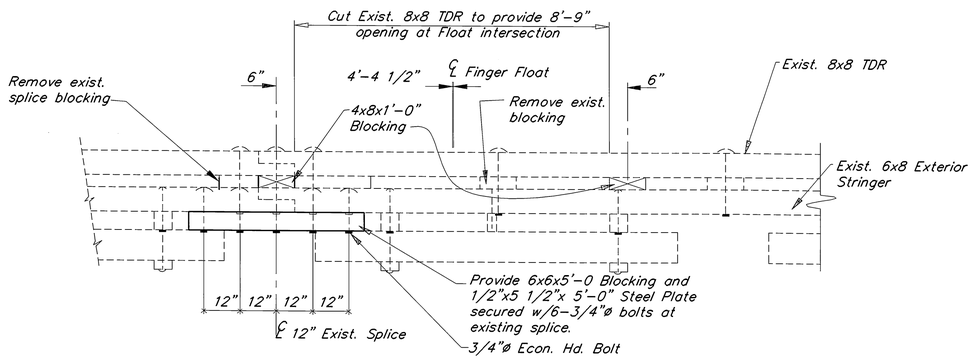
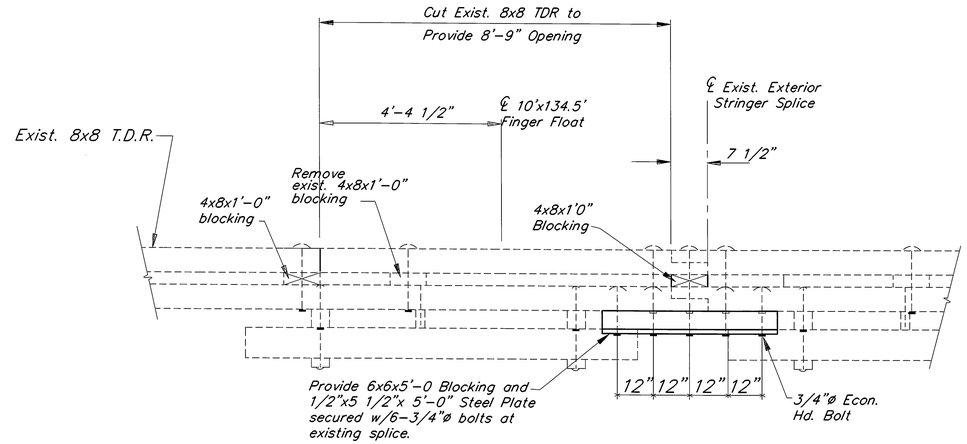


SECTION 1

NOTE: All holes left by the removal of existing bolts shall be treated and plugged as described in the specifications.



SECTION 2



SECTION 5

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

Craig *Alaska*

FLOAT RECONSTRUCTION DETAILS

DESIGNED BY: *D. SALDIVAR*	PROJECT NO. *70649A*
DRAWN BY: AUTOCADD/ *CSA*	DATE: *JULY 1992*
CHECKED BY: *D. DOERFLINGER*	SHEET *10* OF *17*

ENGINEER'S SEAL
STATE OF ALASKA 49th
D. DOERFLINGER
CD-7567
REGISTERED PROFESSIONAL ENGINEER

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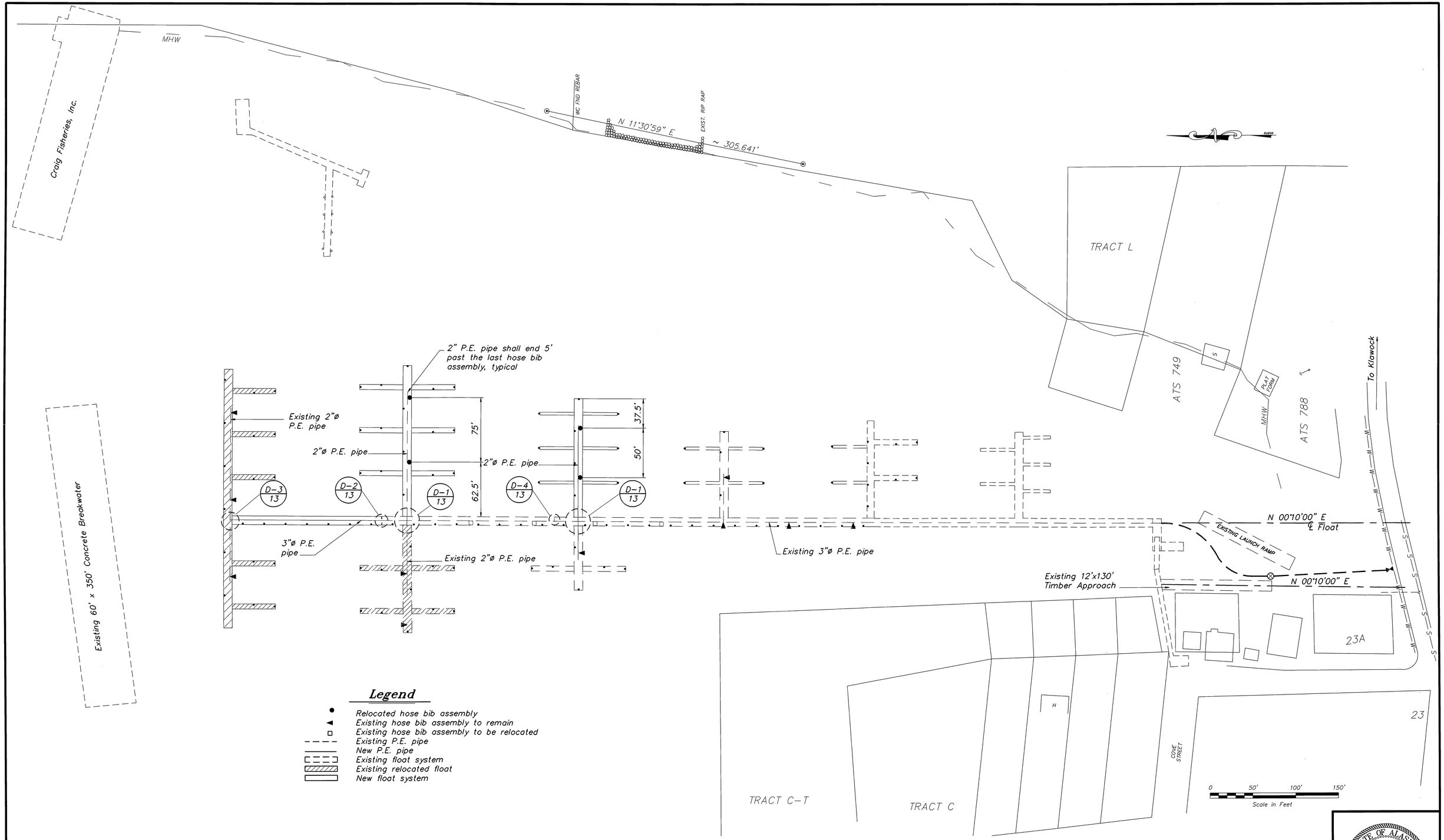


Legend

- Relocated hose bib assembly
- Existing hose bib assembly to remain
- Existing hose bib assembly to be relocated
- Existing P.E. pipe
- New P.E. pipe
- Existing float system
- Existing relocated float
- New float system

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

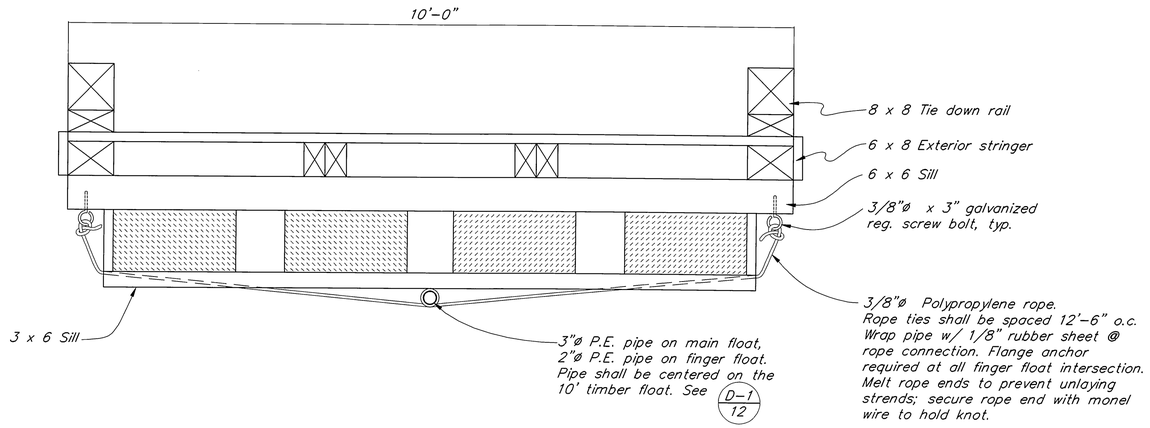
CRAIG ALASKA

WATERLINE LAYOUT

DESIGNED BY: DDS	PROJECT No. 70649A
DRAWN BY: AutoCAD / BWB	DATE: JULY 1992
CHECKED BY: DFD	SHEET 11 OF 17

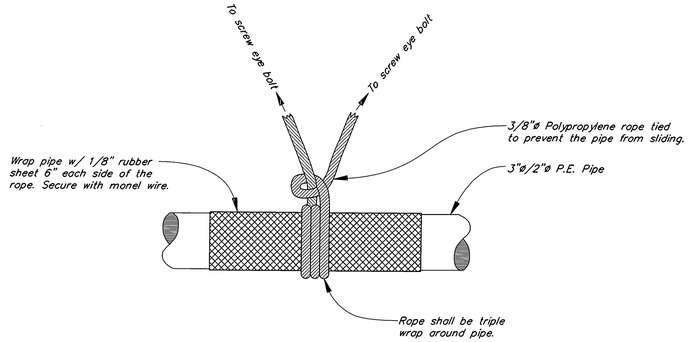
STATE OF ALASKA 49th D.F. Doerfinger CE-7567 REGISTERED PROFESSIONAL ENGINEER

P:\CRAIG2\DR\WATERS-B PLOT VIEW: NCOVE 1=50



Waterline Installation

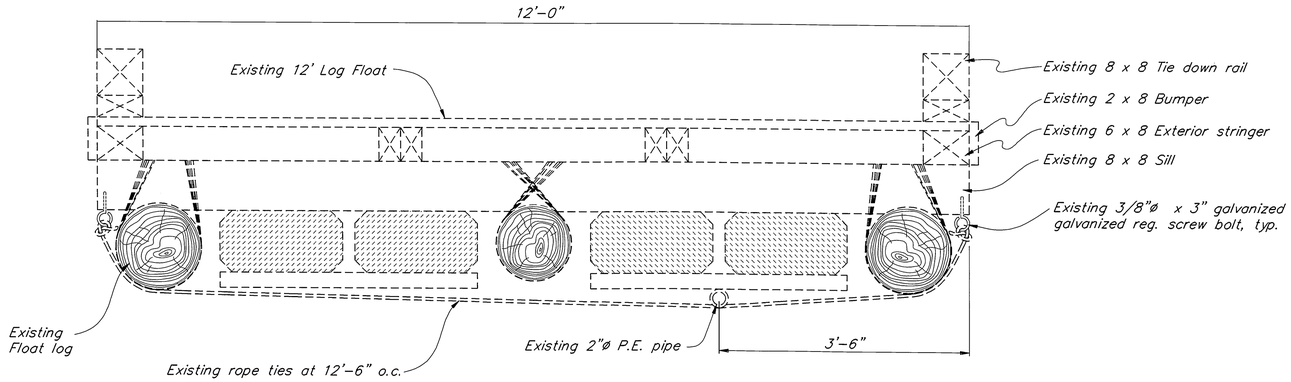
10' Timber Float



Typical Rope Attachment

Detail

1



As-Built Waterline Installation

Existing 12' Finger Float

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

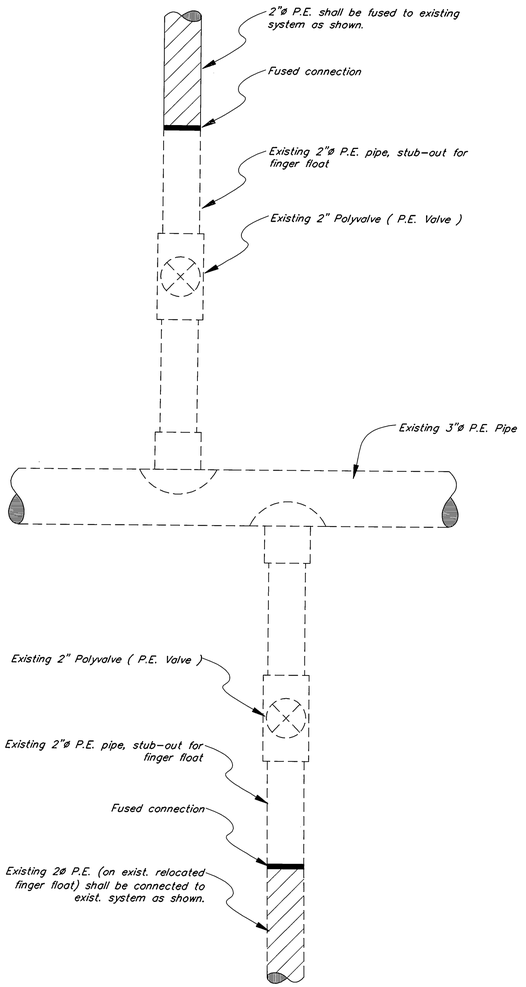
Craig Alaska

WATERLINE DETAILS

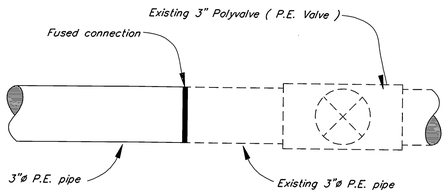
DESIGNED BY: D. SALDIVAR	PROJECT NO. 70649 A
DRAWN BY: AUTOCAD/R. SNYDER	DATE: JULY 1992
CHECKED BY: D. DOERFLINGER	SHEET 12 OF 17

STATE OF ALASKA 49th D. Doerflinger CE 7567 REGISTERED PROFESSIONAL ENGINEER

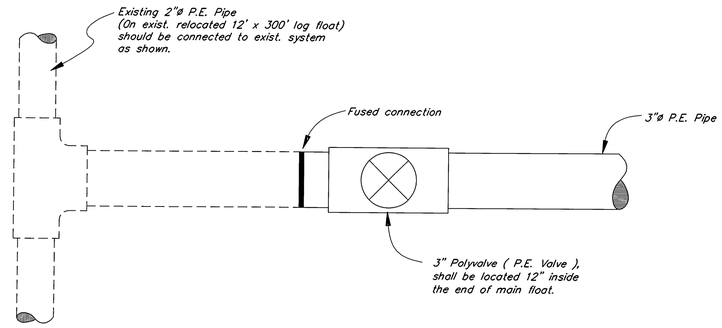
P:\CRAIG2\DR\2DETAIL 1=12



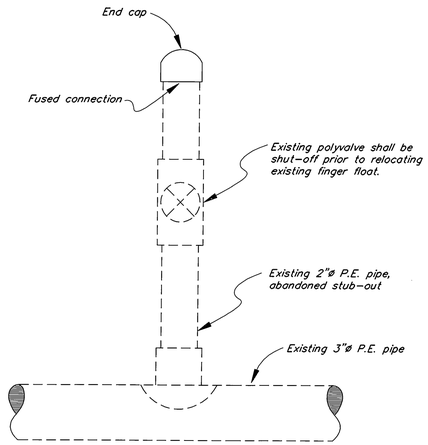
Detail 1



Detail 2



Detail 3



Detail 4

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

Craig *Alaska*

WATERLINE DETAILS

DESIGNED BY: *D. SALDIVAR*	PROJECT NO. *70649 A*
DRAWN BY: *AUTOCAD/R. SNYDER*	DATE: *JULY 1992*
CHECKED BY: *D. DOERFLINGER*	SHEET *13* OF *17*

STATE OF ALASKA
49th
D. Doerflinger
CE 7567
REGISTERED PROFESSIONAL ENGINEER

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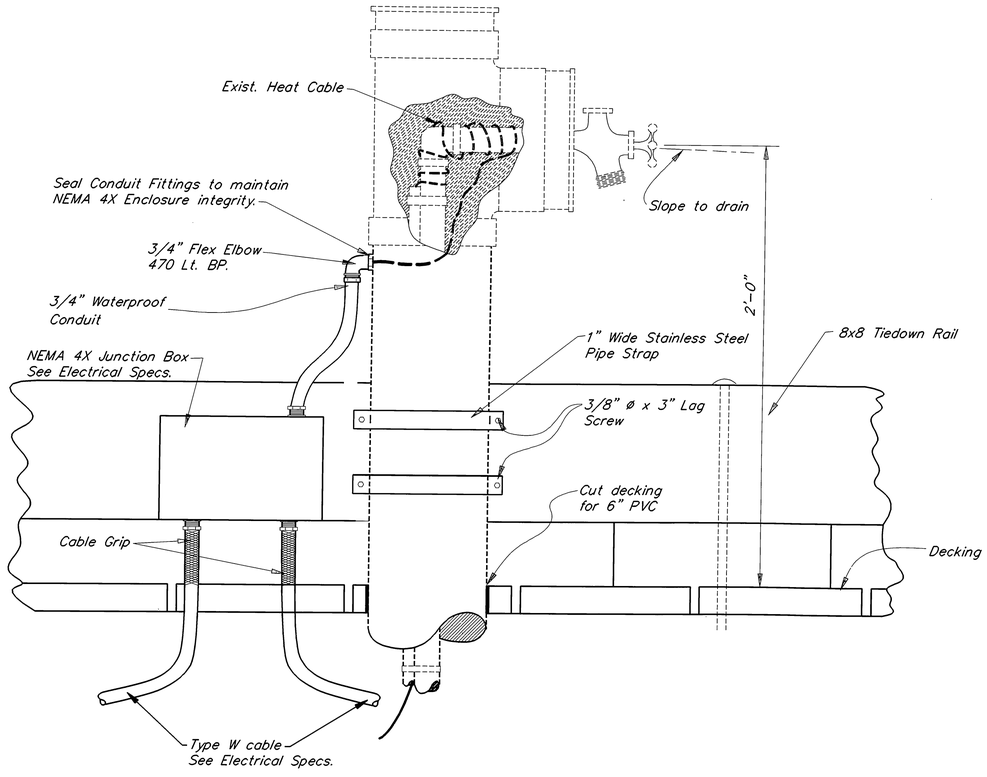
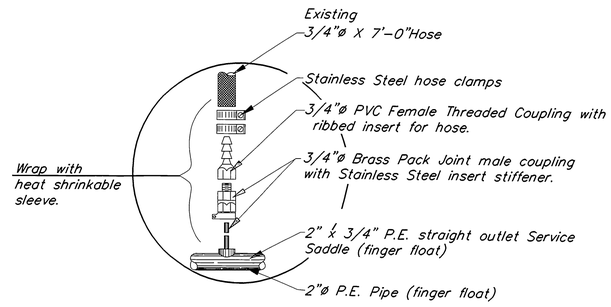
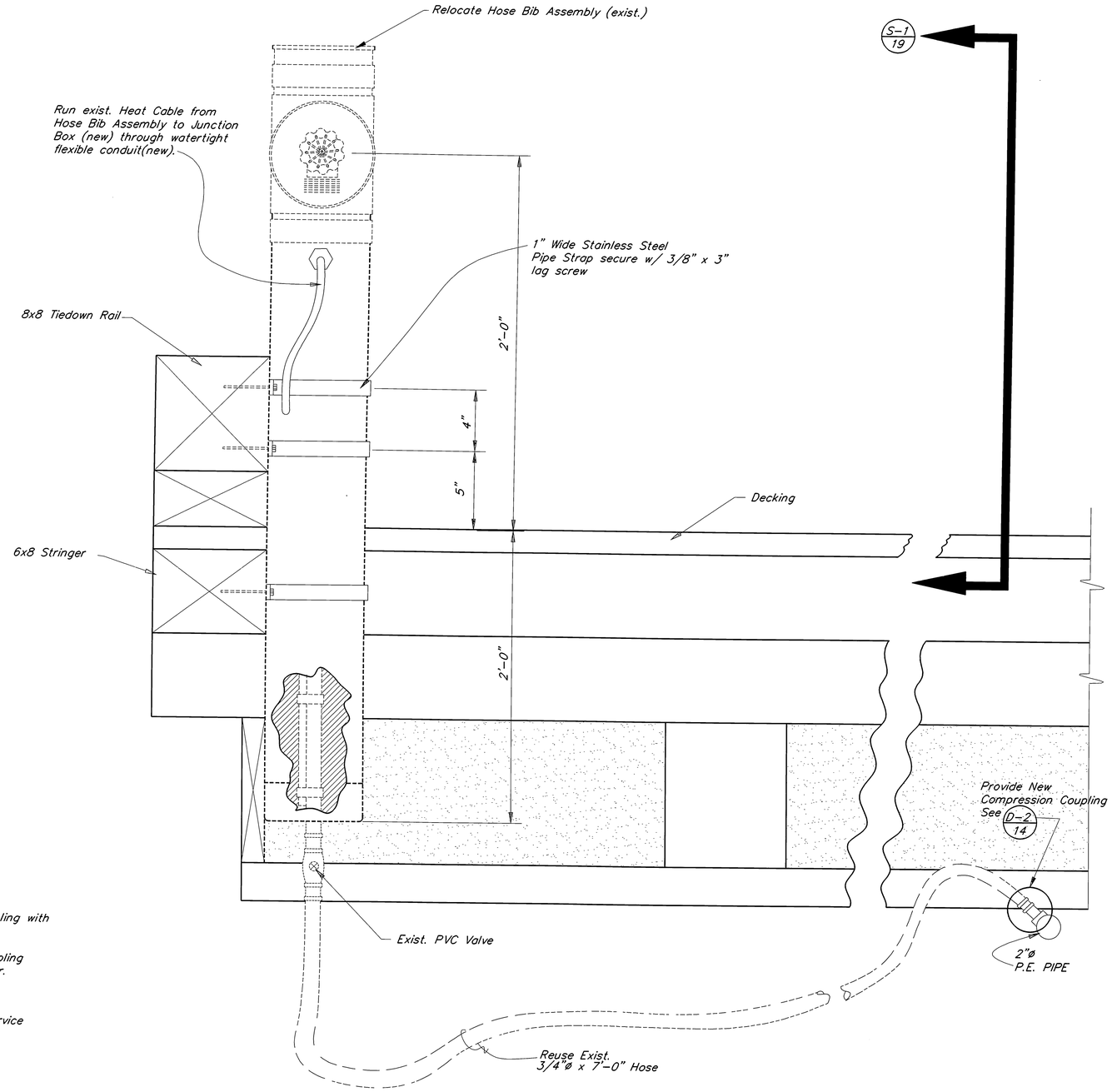


SECTION 1



HOSE ASSEMBLY DETAIL 2



HOSE BIB RELOCATION AND ASSEMBLY DETAIL 1

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

Craig
Alaska

WATERLINE DETAILS

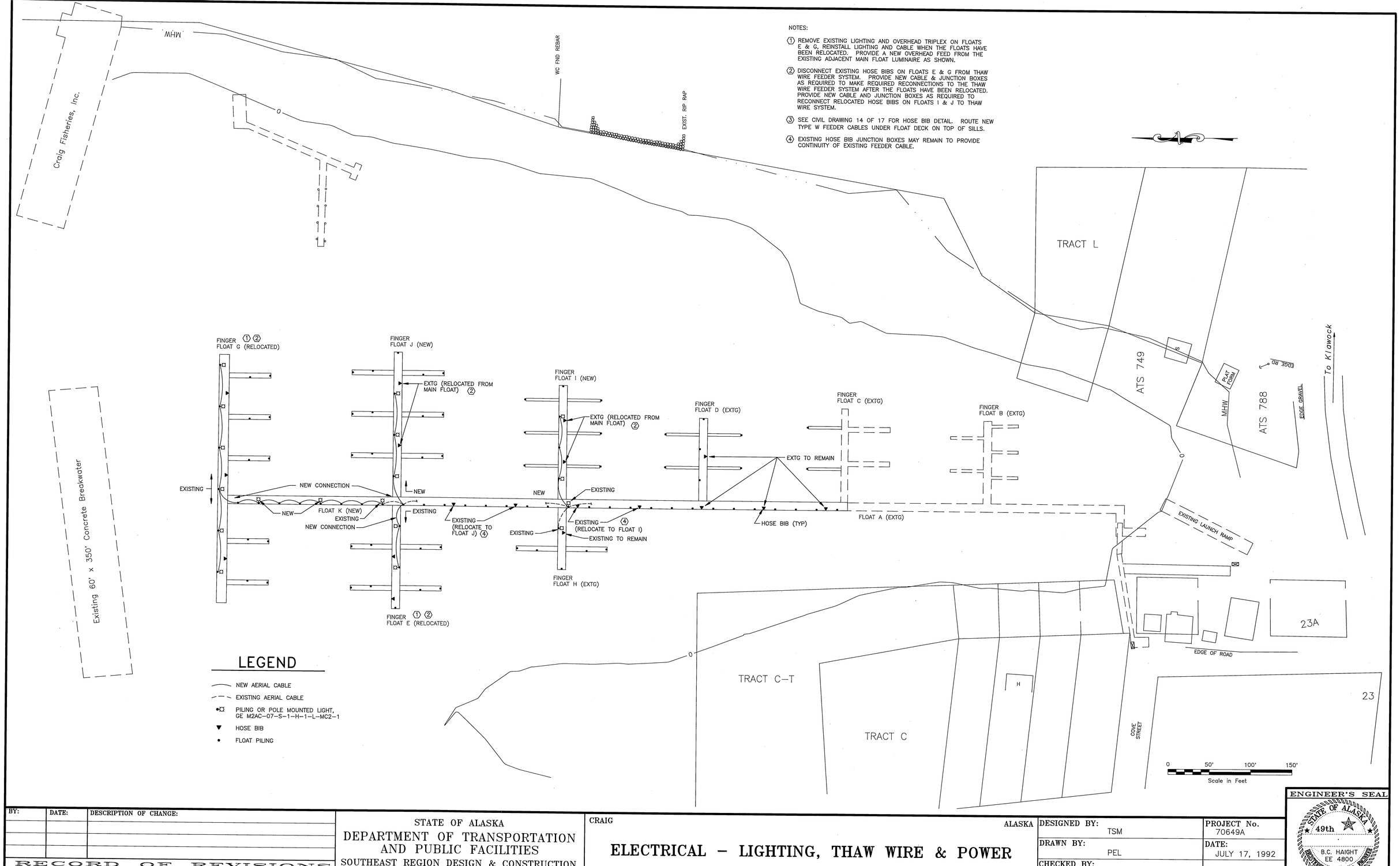
DESIGNED BY: D. SALDIVAR	PROJECT NO. 70649A
DRAWN BY: AUTOCADD/ CSA	DATE: JULY 1992
CHECKED BY: D. DOERFLINGER	SHEET 14 OF 17

ENGINEER'S SEAL
STATE OF ALASKA 49th
D. DOERFLINGER CE-7567
REGISTERED PROFESSIONAL ENGINEER

P:\CRAIG2\DR\WATERDET 1=4

NOTES:

1. REMOVE EXISTING LIGHTING AND OVERHEAD TRIPLEX ON FLOATS E & G, REINSTALL LIGHTING AND CABLE WHEN THE FLOATS HAVE BEEN RELOCATED. PROVIDE A NEW OVERHEAD FEED FROM THE EXISTING ADJACENT MAIN FLOAT LUMINAIRE AS SHOWN.
2. DISCONNECT EXISTING HOSE BIBS ON FLOATS E & G FROM THAW WIRE FEEDER SYSTEM. PROVIDE NEW CABLE & JUNCTION BOXES AS REQUIRED TO MAKE REQUIRED RECONNECTIONS TO THE THAW WIRE FEEDER SYSTEM AFTER THE FLOATS HAVE BEEN RELOCATED. PROVIDE NEW CABLE AND JUNCTION BOXES AS REQUIRED TO RECONNECT RELOCATED HOSE BIBS ON FLOATS I & J TO THAW WIRE SYSTEM.
3. SEE CIVIL DRAWING 14 OF 17 FOR HOSE BIB DETAIL. ROUTE NEW TYPE W FEEDER CABLES UNDER FLOAT DECK ON TOP OF SILLS.
4. EXISTING HOSE BIB JUNCTION BOXES MAY REMAIN TO PROVIDE CONTINUITY OF EXISTING FEEDER CABLE.



LEGEND

- NEW AERIAL CABLE
- EXISTING AERIAL CABLE
- PILING OR POLE MOUNTED LIGHT, GE M2AC-07-S-1-H-1-L-MC2-1
- HOSE BIB
- FLOAT PILING

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CRAIG ALASKA

ELECTRICAL - LIGHTING, THAW WIRE & POWER

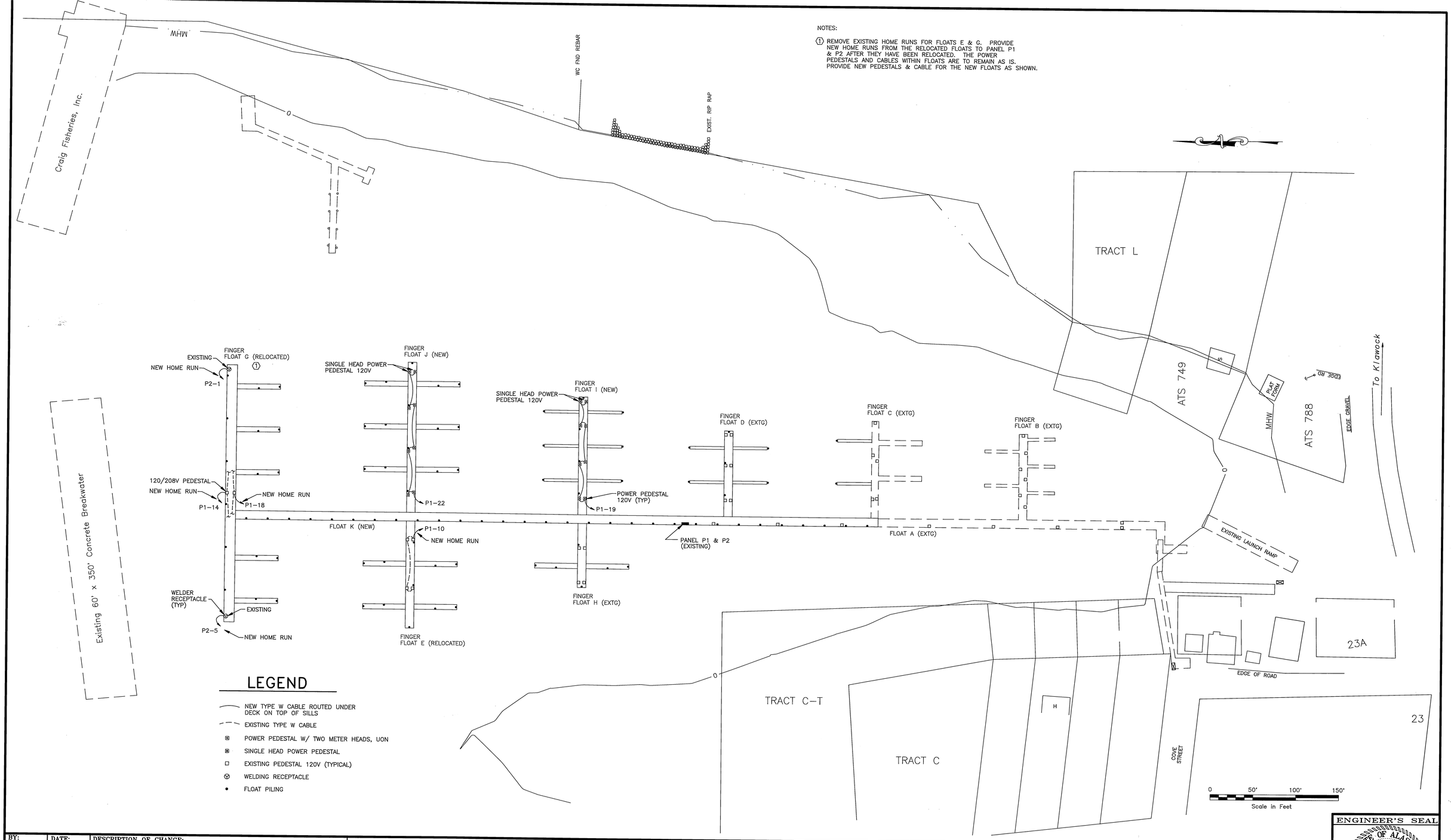
DESIGNED BY: TSM	PROJECT No. 70649A
DRAWN BY: PEL	DATE: JULY 17, 1992
CHECKED BY: BCH	SHEET 15 OF 17

ENGINEER'S SEAL

STATE OF ALASKA
49th
B.C. HAIGHT
EE 4800
REGISTERED PROFESSIONAL ENGINEER

NOTES:

1. REMOVE EXISTING HOME RUNS FOR FLOATS E & G. PROVIDE NEW HOME RUNS FROM THE RELOCATED FLOATS TO PANEL P1 & P2 AFTER THEY HAVE BEEN RELOCATED. THE POWER PEDESTALS AND CABLES WITHIN FLOATS ARE TO REMAIN AS IS. PROVIDE NEW PEDESTALS & CABLE FOR THE NEW FLOATS AS SHOWN.



LEGEND

- NEW TYPE W CABLE ROUTED UNDER DECK ON TOP OF SILLS
- EXISTING TYPE W CABLE
- POWER PEDESTAL W/ TWO METER HEADS, UON
- SINGLE HEAD POWER PEDESTAL
- EXISTING PEDESTAL 120V (TYPICAL)
- WELDING RECEPTACLE
- FLOAT PILING

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

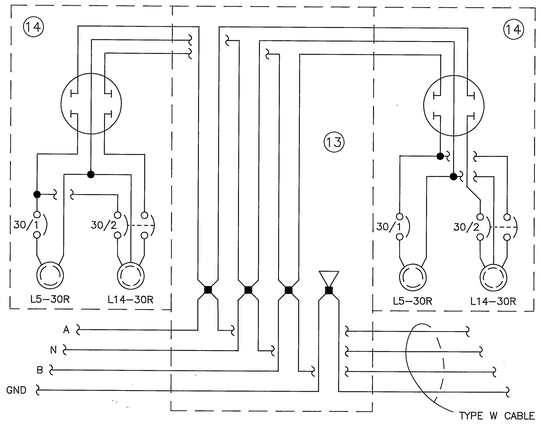
CRAIG ALASKA

ELECTRICAL – LIGHTING, THAW WIRE & POWER

DESIGNED BY: TSM	PROJECT No. 70649A
DRAWN BY: PEL	DATE: JULY 17, 1992
CHECKED BY: BCH	SHEET 16 OF 17

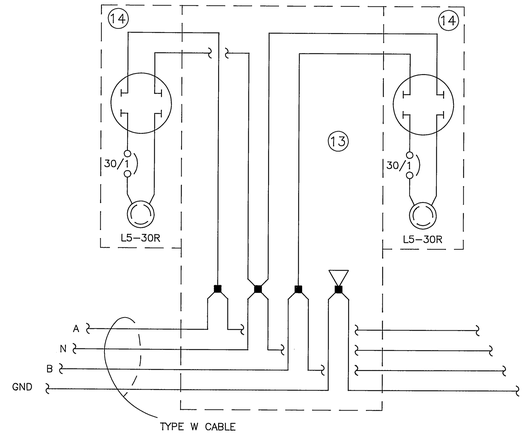
ENGINEER'S SEAL

STATE OF ALASKA ★ 49th ★
B.C. HAIGHT
EE 4800
REGISTERED PROFESSIONAL ENGINEER



RISER DIAGRAM – 120/240 VOLT PEDESTAL

NO SCALE



RISER DIAGRAM – 120 VOLT PEDESTAL

NO SCALE

PANEL P1 (EXTG)

SIZE: 400 AMPS | VOLTS/PHASE: 120/208V, 3 PH | MAIN: LUGS ONLY | LOCATION: MAIN FLOAT | MOUNT: SURFACE

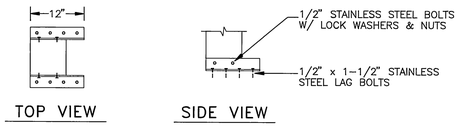
CKT NO	WIRE NO/ SIZE	DESCRIPTION	BREAKER AMP/ POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	CKT	BREAKER AMP/ POLE	DESCRIPTION	WIRE NO/ SIZE	CKT NO
1	4/4	FLOAT C SHORETIES EXISTING	60/2	5.0	10.0			5.0	60/2	FLOAT D SHORETIES EXISTING	4/4	2
3	—	—	—	5.0		10.0		5.0	—	—	—	4
5	4/2	FLOAT A SHORETIES	60/2	4.2			11.7	7.5	100/2	MAIN & H FLOAT SHORETIES	4/1/0	6
7	—	—	—	4.2	11.7			7.5	—	—	—	8
9	4/2	FLOAT B SHORETIES	60/2	6.0		12.3		6.3	80/2	FLOAT E SHORETIES	4/2	10
11	—	—	—	6.0			12.3	6.3	—	—	—	12
13					3.8			3.8	60/2	FLOAT G NORTH SHORETIES	4/2	14
15	4/4	PANEL P2	100/2	7.2		11.0		3.8	—	—	—	16
17	—	—	—	6.6			14.1	7.5	100/2	FLOAT G SOUTH SHORETIES	4/1/0	18
19	4/1/0	FLOAT I SHORETIES	100/2	7.0	14.5			7.5	—	—	—	20
21	—	—	—	7.0		13.3		6.3	80/2	FLOAT J SHORETIES	4/2	22
23							6.3	6.3	—	—	—	24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
TOTAL CONNECTED LOAD = 135.2 KVA / 375.6 AMPS					44.2	46.6	44.4					

PANEL P2 (EXTG)

SIZE: 100 AMPS | VOLTS/PHASE: 120/208V, 1 PH | MAIN: LUGS ONLY | LOCATION: MAIN FLOAT | MOUNT: SURFACE

CKT NO	WIRE NO/ SIZE	DESCRIPTION	BREAKER AMP/ POLE	KVA CKT	KVA AØ	KVA BØ	CKT	BREAKER AMP/ POLE	DESCRIPTION	WIRE NO/ SIZE	CKT NO
1	4/4	WELDER RECEPTACLE (EXTG)	50/2	3.3	3.9		0.6	20/1*	UTILITY RECEPTACLE (EXTG)	2/12	2
3	—	—	—	3.3		3.3					4
5	4/4	WELDER RECEPTACLE (EXTG)	50/2	3.3	3.3						6
7	—	—	—	3.3		3.3					8
9											10
11											12
13											14
15											16
17											18
19											20
21											22
23											24
TOTAL CONNECTED LOAD = 13.8 KVA / 38 AMPS					7.2	6.6					

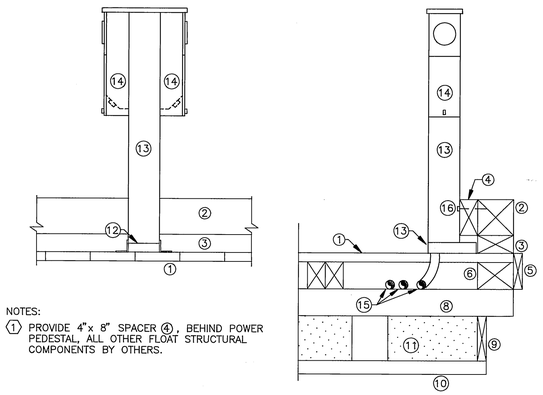
* GROUND FAULT INTERRUPTER



DETAIL – PEDESTAL BASE

0 1' 2' 4'

Scale in Feet



NOTES:

(1) PROVIDE 4"x 8" SPACER (4), BEHIND POWER PEDESTAL, ALL OTHER FLOAT STRUCTURAL COMPONENTS BY OTHERS.

ELEVATION – POWER PEDESTAL

0 1' 2' 4'

Scale in Feet

EQUIPMENT SCHEDULE:

(1) 2"x10" DECKING
(2) 8"x8" BULLRAIL
(3) 4"x8" BLOCKING
} BY OTHERS

(4) 4"x8"x20" SPACER (NEW)
(5) 2"x8" BUMPER BOARD
(6) 6"x8" STRINGER
(7) 4"x6" STRINGER
(8) 6"x6" & 3"x6" SILLS
(9) 2"x10" SIDING
(10) 3"x6" SILL
(11) 10"x20"x9' FLOTATION PLANKS
} BY OTHERS

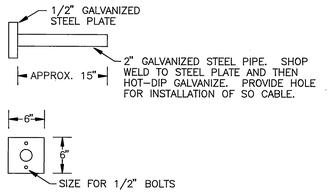
(12) PEDESTAL BASE – 2-1/2"H x 4"W x 12", 1/4" STAINLESS STEEL ANGLE IRON (SEE DETAIL)

(13) 8x10 PEDESTAL – 14 GA. STAINLESS STEEL (316)

(14) POWER HEAD W/ METER BASE, CIRCUIT BREAKER, & RECEPTACLE & LOCKABLE COVER – 16 GA. STAINLESS STEEL (316)

(15) TYPE W CABLES (TYP)

(16) 1/2" x 6" STAINLESS STEEL LAG BOLT



DETAIL – PILING BRACKET

NO SCALE

EQUIPMENT / NOTES:

(1) STEEL PILING WITH AERIAL LINE SUPPORT

(2) CLEVIS & INSULATOR: JOSLYN J93 & J151.

(3) AERIAL CABLE: #6 QUADRUPLEX CU WITH ACSR MESSENGER.

(4) 5/8" GALVANIZED BOLT.

(5) STEEL PILING WITH AERIAL LINE SUPPORT & LUMINAIRE.

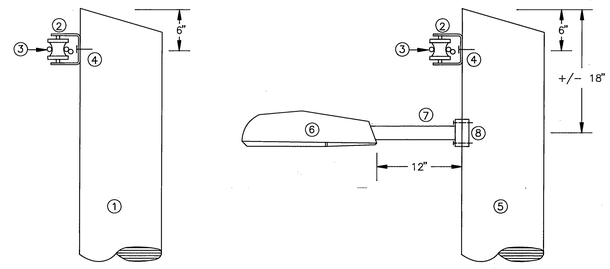
(6) LUMINAIRE: GE M2AC-07-S-1-H-1-L-MC2-1, 70 WATT HIGH PRESSURE SODIUM.

(7) LUMINAIRE PILING BRACKET, GALVANIZED. SEE DETAIL THIS SHEET.

(8) 3/8" GALVANIZED BOLTS.

(9) MAKE CONNECTION FROM AERIAL CABLE TO LUMINAIRE WITH 10/3 SO CABLE (BLACK). UTILIZE MECHANICAL TYPE CABLE TAPS, THOMAS & BETTS CT2 OR EQUAL, W/ INSULATING BOOT CT2C. TAPE OVER BOOT W/ TWO LAYERS OF ELECTRICIANS TAPE. TY-RAP TO MESSENGER.

(10) MOUNT CLEVIS TO FACE CONDUCTOR BEING TERMINATED IN DEADEND CONFIGURATION.



DETAIL – FLOAT LIGHTING / AERIAL LINE

NO SCALE

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

CRAIG ALASKA

ELECTRICAL – LIGHTING, THAW WIRE & POWER

DESIGNED BY: TSM	PROJECT No. 70649A
DRAWN BY: PEL	DATE: JULY 17, 1992
CHECKED BY: BCH	SHEET 17 OF 17

ENGINEER'S SEAL

STATE OF ALASKA 49th

B.C. HAIGHT EE 4800

REGISTERED PROFESSIONAL ENGINEER