

DESIGNED BY
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 S O U T H E A S T R E G I O N

FOR THE
Inter Island Ferry Authority

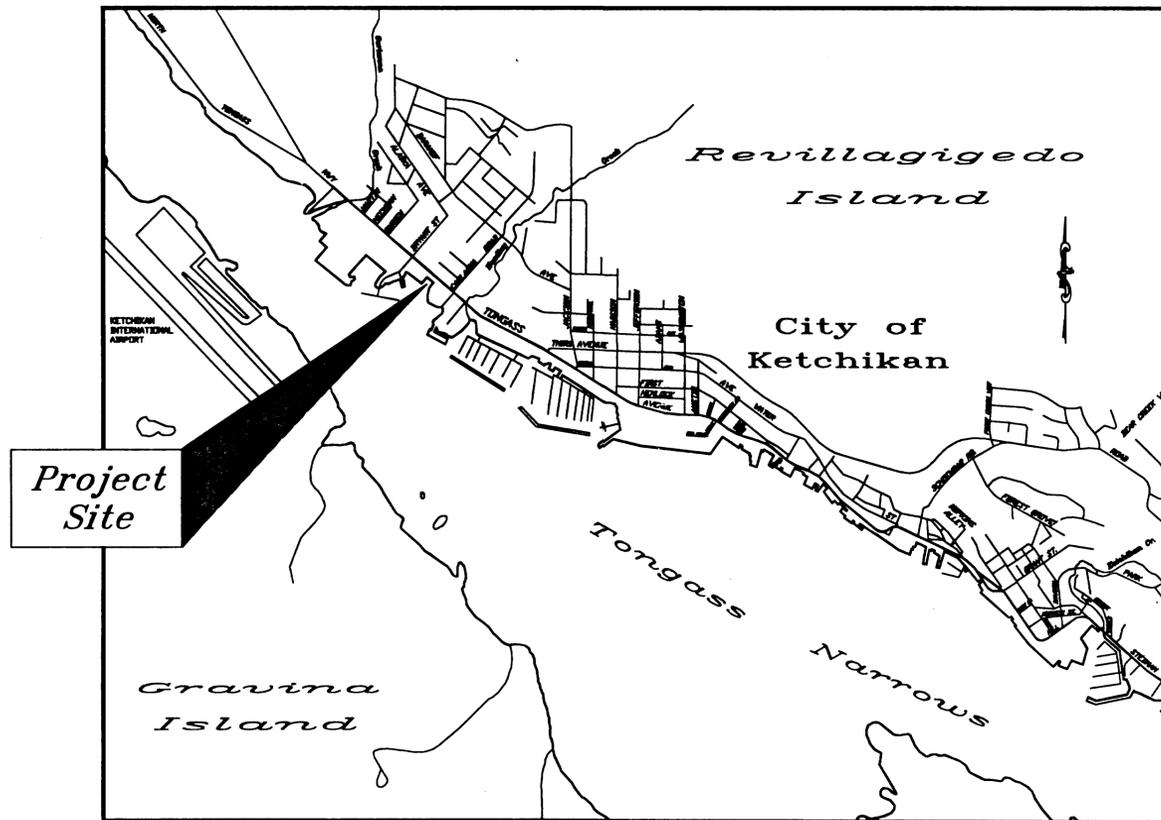
A PROJECT AT
KETCHIKAN, ALASKA
KETCHIKAN TRANSFER FACILITY
PHASE I

PROJECT NO. 67857
FEDERAL NO. MGS-0003(67)

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TIDAL DATA

EHW: 20.8'
 EHT: 19.4'
 MHHW: 15.3
 MHW: 14.4'
 ELW: -5.0



VICINITY MAP

The following Department Of Transportation and Public Facilities Standard Drawings are included in this project:
 D-20.05, D-22.00, D-26.02, D-35.0,
 I-20.13, G-45.01, U-03.00

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 SOUTHEAST REGION

APPROVED _____ Date _____
 Preconstruction Engineer
 APPROVED _____ Date _____
 Director, S.E. Region

PROJECT NUMBER: 67857	
DATE: November 2000	
SHEET 1 OF 87	

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
110(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
111(1)	TEMPORARY EROSION AND POLLUTION CONTROL ADMIN.	LUMP SUM	ALL REQUIRED
111(2)	EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
111(3)	SILT CONTAINMENT BOOM	LUMP SUM	ALL REQUIRED
111(4)	CHECK DAM	Each	2
111(5)	INLET BARRIER	Each	6
112(1)	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED
112(2)	THREE PERSON SURVEY PARTY	HOUR	10
114(1)	TRAFFIC MAINTENANCE AND CONTROL	LUMP SUM	ALL REQUIRED
114(2)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
116(1)	FIELD OFFICE	LUMP SUM	ALL REQUIRED
116(2)	ENGINEERING TRANSPORTATION	LUMP SUM	ALL REQUIRED
117(1)	MARINE MAMMAL MONITORING	LUMP SUM	ALL REQUIRED
201(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (SEE SHEET 7)	LUMP SUM	ALL REQUIRED
203(1)	DRAINAGE STRUCTURES	LUMP SUM	ALL REQUIRED
203(2)	BORROW	CUBIC YARD	53,700
203(3)	SUBBASE, GRADING E	TON	5,200
203(4)	CRUSHED AGGREGATE BASE COURSE	TON	3,100
*	18 INCH PIPE	LINEAR FOOT	260
*	48 INCH PIPE	LINEAR FOOT	380
**	CLEARING AND GRUBBING	SQUARE YARD	500
205(1)	RIPRAP, CLASS IV	CUBIC YARD	4,200
207(1)	ASPHALT CONCRETE PAVEMENT TYPE III CLASS B	TON	1,000
207(2)	ASPHALT CEMENT	TON	60
301(1)	36" DIA. X 1/2" WALL PIPE PILES, FURNISHED	LINEAR FOOT	398
301(2)	36" DIA. X 1/2" WALL PIPE PILES, DRIVEN	EACH	4
301(3)	30" DIA. X 1/2" WALL PIPE PILES, FURNISHED	LINEAR FOOT	1,360
301(4)	30" DIA. X 1/2" WALL PIPE PILES, DRIVEN	EACH	12
301(5)	24" DIA. X 1/2" WALL PIPE PILES, FURNISHED	LINEAR FOOT	103
301(6)	24" DIA. X 1/2" WALL PIPE PILES, DRIVEN	EACH	2
302(1)	STEEL TRANSFER BRIDGE, F. F. & E.	LUMP SUM	ALL REQUIRED
302(2)	INTERMEDIATE BRIDGE LIFT SYSTEM, F. F. & E.	LUMP SUM	ALL REQUIRED
302(3)	FLOAT ACCESS GANGWAY, F. F. & E.	LUMP SUM	ALL REQUIRED
302(4)	FLOAT RESTRAINT STRUCTURE CAP, F. F. & E.	EACH	4
302(5)	FENDER FLOAT SUPERSTRUCTURE, COLLARS, FENDERS, F. F. & E.	LUMP SUM	ALL REQUIRED
302(6)	BRIDGE FLOAT FENDERS, COLLARS, F. F. & E.	LUMP SUM	ALL REQUIRED
302(7)	APPROACH TRAFFIC RAILING	LUMP SUM	ALL REQUIRED
308(1)	PRESTRESSED PILE ANCHORS (30" DIA. PILES)	EACH	4
308(2)	PRESTRESSED PILE ANCHORS (36" DIA. PILES)	EACH	4
311(1)	60'x60' POST-TENSIONED CONCRETE BRIDGE	LUMP SUM	ALL REQUIRED
311(2)	SUPPORT FLOAT	LUMP SUM	ALL REQUIRED
311(3)	30'x120' POST-TENSIONED CONCRETE FENDERING	LUMP SUM	ALL REQUIRED
311(4)	FLOAT W/STEEL SUPERSTRUCTURE	LUMP SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES (CONTINUED)			
ITEM NO.	ITEM	UNIT	QUANTITY
312(1)	ABUTMENT AND APPROACH SLAB	LUMP SUM	ALL REQUIRED
501(1)	ELECTRICAL POWER AND LIGHTING SYSTEM	LUMP SUM	ALL REQUIRED
501(2)	POWER UNIT CONTROL PANEL & ASSOCIATED WIRING	LUMP SUM	ALL REQUIRED
502(1)	PURSER SHELTER	LUMP SUM	ALL REQUIRED
602(1)	CONCRETE SIDEWALK	SQUARE YARD	70
602(2)	ASPHALT SIDEWALK	SQUARE YARD	130
603(1)	CURB AND GUTTER	LINEAR FOOT	380
604(1)	SANITARY SEWER MANHOLE	EACH	2
604(2)	INSTALL SANITARY SEWER INLET INTO EXISTING MANHOLE	EACH	1
606(1)	SIGNS	SQUARE FOOT	90
607(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
614(1)	JERSEY BARRIER	LINEAR FOOT	380
625(1)	PEDESTRIAN BARRIER	LINEAR FOOT	190
626(1)	8 INCH SANITARY SEWER CONDUIT	LUMP SUM	ALL REQUIRED
626(2)	BRIDGE SANITARY SEWER PIPE	LUMP SUM	ALL REQUIRED
626(3)	SANITARY SEWER OUTFALL	LUMP SUM	ALL REQUIRED
627(1)	8 INCH WATER CONDUIT	LINEAR FOOT	290
627(2)	BRIDGE WATER LINE	LUMP SUM	ALL REQUIRED
628(1)	RP DEVICE, METER, ENCLOSURE & ASSOC. APPURTENANCES	LUMP SUM	ALL REQUIRED
628(2)	8 INCH GATE VALVE	EACH	1
628(3)	FIRE HYDRANT	EACH	1

* IS INCIDENTAL TO 203(1)
** INCIDENTAL TO ITEM 203(2)

PILE TABLE									
PILE LOCATION (Layout Shts. 4-7) STRUCTURE ORIENTATION & (pile tip)	DIA. Inches	CAPACITY (TONS)		ELEVATIONS		TIP ELEVATIONS		TOTAL ESTIMATED LENGTH*	
		BEARING	UPLIFT	APPROX MUDLINE	CUT-OFF	MIN.	EST.		
BRIDGE FLOAT RESTRAINT STRUCTURE "A"									
Vertical **	2	30	100	55	-30	24.00	-70	188	
Batter (3:1)	2	30	50	55	-28	38.00	-68	224	
BRIDGE FLOAT RESTRAINT STRUCTURE "B"									
Vertical **	2	30	100	55	-28	24.00	-68	184	
Batter (3:1)	2	30	50	55	-23	38.00	-63	213	
FENDER FLOAT RESTRAINT STRUCTURE "C"									
Vertical **	2	36	100	55	-38	15.50	-78	187	
Batter (2:1)	2	30	50	55	-40	38.00	-80	264	
FENDER FLOAT RESTRAINT STRUCTURE "D"									
Vertical **	2	36	100	55	-50	15.50	-90	211	
Batter (2:1)	2	30	50	55	-50	38.00	-90	287	
ABUTMENT									
Vertical	2	24	60	N/A	N/A	16.17	-35	103	

**Require prestressed pile anchors *No allowance for cutoff

BASIS OF ESTIMATE		
ITEM NO.	ITEM	QUANTITY
203(2)	SUBBASE, GRADING A	1.6 TON/CUBIC YARD
203(3)	SUBBASE, GRADING E	1.6 TON/CUBIC YARD
203(4)	CRUSHED AGGREGATE BASE COURSE	1.9 TON/CUBIC YARD
203(2)	BORROW, TYPE D	1.8 TON/CUBIC YARD
207(1)	ASPHALT CONCRETE, TYPE II, CLASS "B"	115.0 LBS/SQ.YD./IN DEPTH
207(2)	AC-5 ASPHALT CEMENT	6.0% OF ITEM 207(1)

Specifications: Per Contract Documents for Project No. MGS-0003(67)/67857
Construction: Per Contract Documents for Project No. MGS-0003(67)/67857
Design Standards: AKDOT/PF & SOUTHEAST REGION MARINE ENGINEERING DESIGN STANDARDS AASHTO
Design Loads: Bridge Support Float: DL+LL Vehicle Bridge & Apron
4' x 4 sec wave
Vessel Berthing LL
Bridge Float Restraint Structures: Support Float LL
Vessel Berthing LL
Fender Float Fenders: 24 ft-kips Service
55 ft-kips Overload
Fender Float Restraint Structures: Fender Float LL
Vessel Berthing and Mooring LL
Vehicle Bridge AASHTO HS20-44
Pedestrian Ramps: LL - 85 psf
Float Access Ramps: LL - 60 psf

Design Unit Stresses:
Steel: A36 F_y = 20 Ksi
A252 Gr. 2 F_y = 19.25 Ksi
A500 Gr. B F_y = 25 Ksi
A572 F_y = 27 Ksi
A108 F_y = 28 Ksi
A608 Gr. D F_y = 30 Ksi
Concrete: Min. 28 day strength F_c: Class A-A= 5 ksi. & Class A = 4 ksi.
Reinforcement: F_y = 60 ksi

Materials:
Steel: Tube Sections A500 Gr. B
Pile A252 Gr. 2, A501 or A53, Gr. B, type E or S, A572 Grade 50
Pipe A53, Gr. B, type E or S
Stainless Type 302, 304 or 316
All other shall be A36 or A572 as noted.
Charpy Group 2 impact requirements shall apply.
Concrete: Class A-A & Class A per Section 304

Protective Coatings:
All steel and weldments: Galvanized after fabrication per Section 302, unless otherwise noted.
Transfer Bridge & Ramp: Painted per Sec. 303 (System 5) after fabrication.
Reinforcing Steel: Galvanized Per Section 307
Non-Skid Coating For Steel Surfacing: Per Section 303 System 7
Timber Deck on Fender Float: Penta per Section 306

Piling:
Size: As shown on plans
Tips: Reinforced tips w/ APF 0-14000 or APF 0-14001 Drive Shoes or Approved Equal. Drive Shoes Are Required On All Piling.
Driving Requirements: (See table this sheet)

IFA Vessel Info:	Design Freeboard 7'-3"
	Length 198'
	Beam 53'
	Displacement (LTSW) 1900
Bridge & Float Data:	Bridge Abutment Elevation: +23.5
	Bridge Float Freeboard: 2'-0"
	Fender Float Freeboard: 2'-0"
Design Vehicles:	Turning Radius: B-40

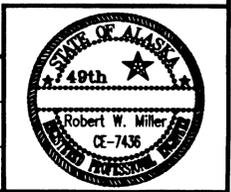
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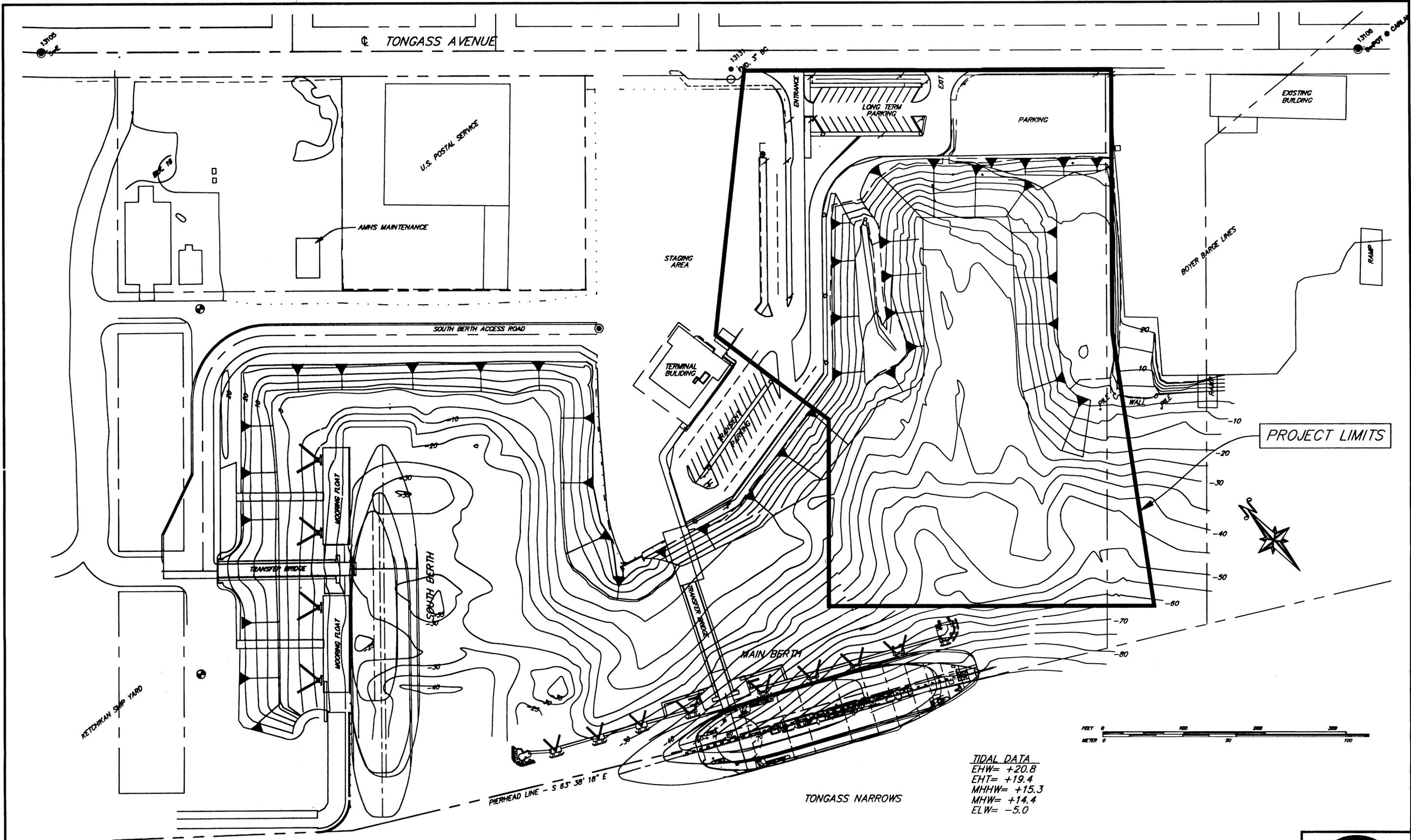
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RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
ESTIMATE OF QUANTITIES

DESIGNED BY:	Miller	PROJECT NO.	67857
DRAWN BY:	Robertson	DATE:	November 2000
CHECKED BY:	Savikko	SHEET	2 OF 87





TIDAL DATA
 EHW= +20.8
 EHT= +19.4
 MHHW= +15.3
 MHW= +14.4
 ELW= -5.0

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

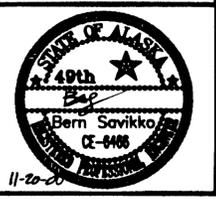
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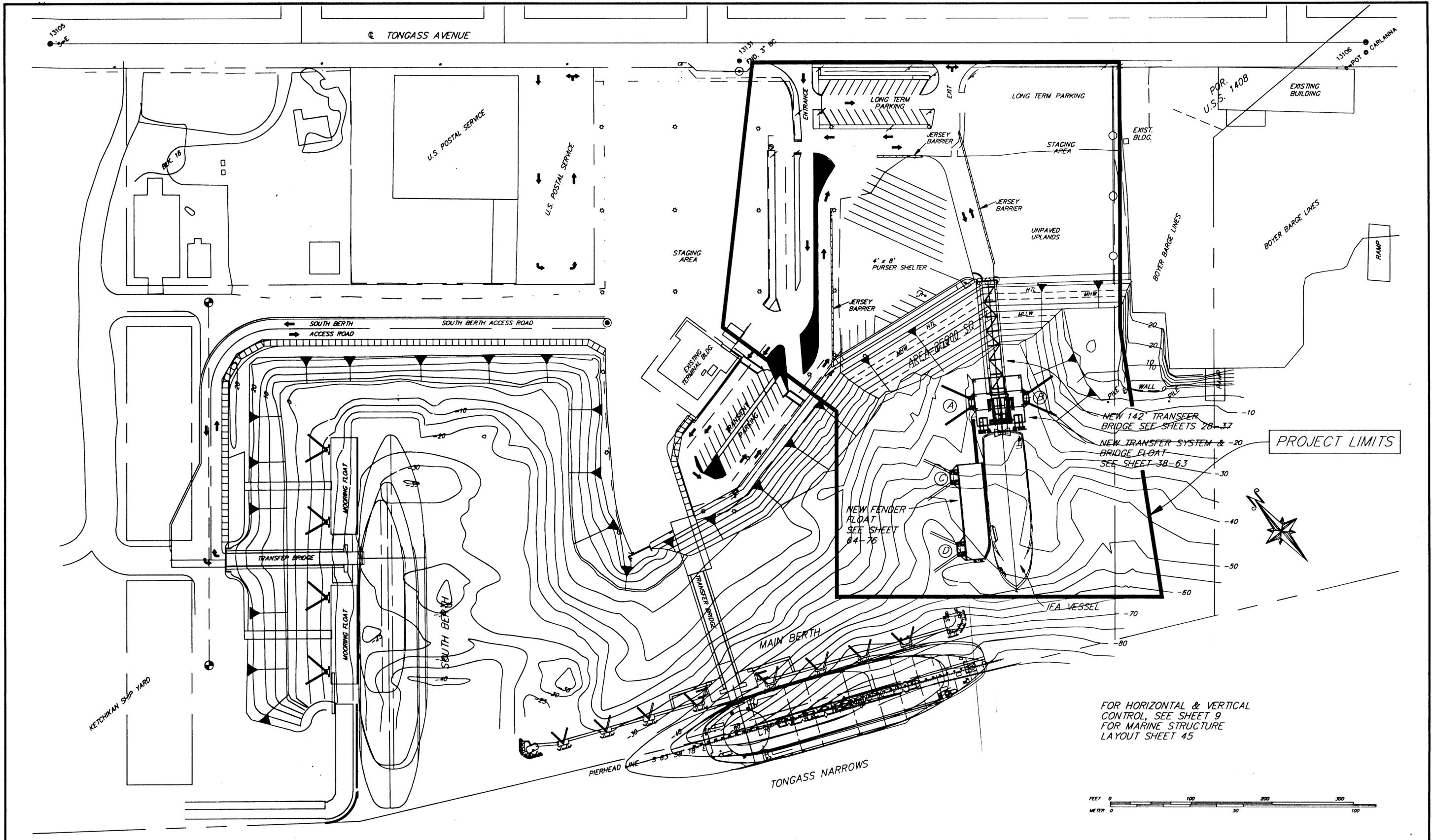
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 SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
 Project No. MGS - 0003(07) / 67857

EXISTING SITE LAYOUT

DESIGNED BY: <i>Savikko</i>	PROJECT NO. 67857
DRAWN BY: <i>Robertson</i>	DATE: November 2000
CHECKED BY: <i>Miller</i>	SHEET 3 OF 07





FOR HORIZONTAL & VERTICAL CONTROL, SEE SHEET 9
 FOR MARINE STRUCTURE LAYOUT SHEET 45



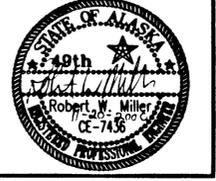
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

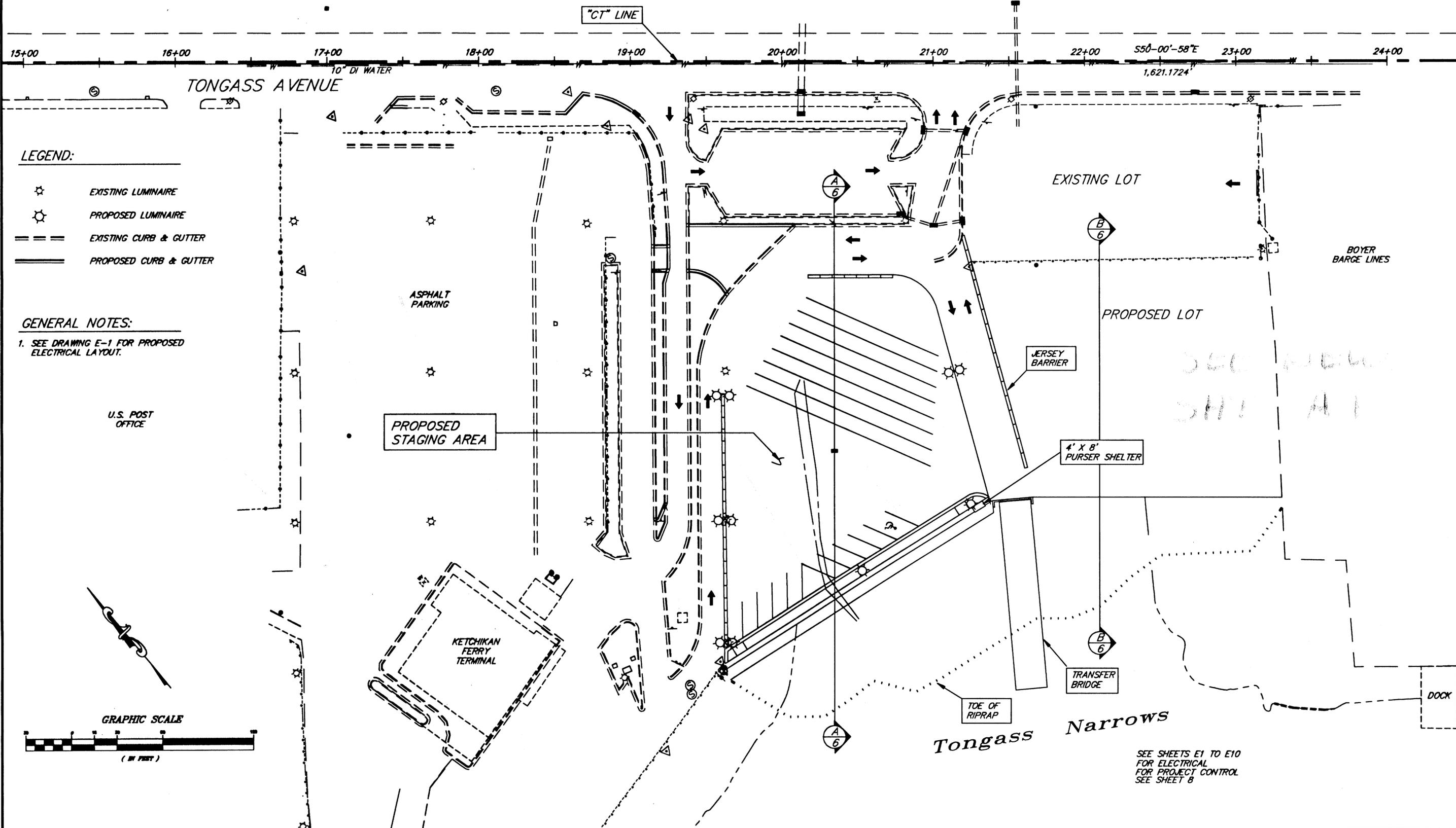
STATE OF ALASKA
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 AND PUBLIC FACILITIES
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KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
 Project No. MGS - 0003(6?) / 67857

PROPOSED LAYOUT PLAN

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS	
DESIGNED BY:	PROJECT NO.
Miller	67857
DRAWN BY:	DATE:
Robertson	November 2000
CHECKED BY:	SHEET 4 OF 87
Savikko	





- LEGEND:**
- ☆ EXISTING LUMINAIRE
 - ⊙ PROPOSED LUMINAIRE
 - == EXISTING CURB & GUTTER
 - PROPOSED CURB & GUTTER

GENERAL NOTES:

- SEE DRAWING E-1 FOR PROPOSED ELECTRICAL LAYOUT.

SEE SHEETS
5111 A1

SEE SHEETS E1 TO E10
FOR ELECTRICAL
FOR PROJECT CONTROL
SEE SHEET B

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
PROJECT OVERVIEW - UPLANDS

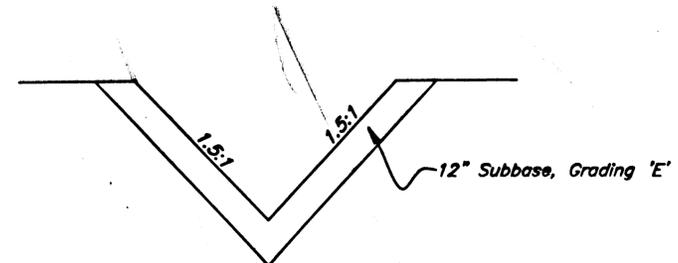
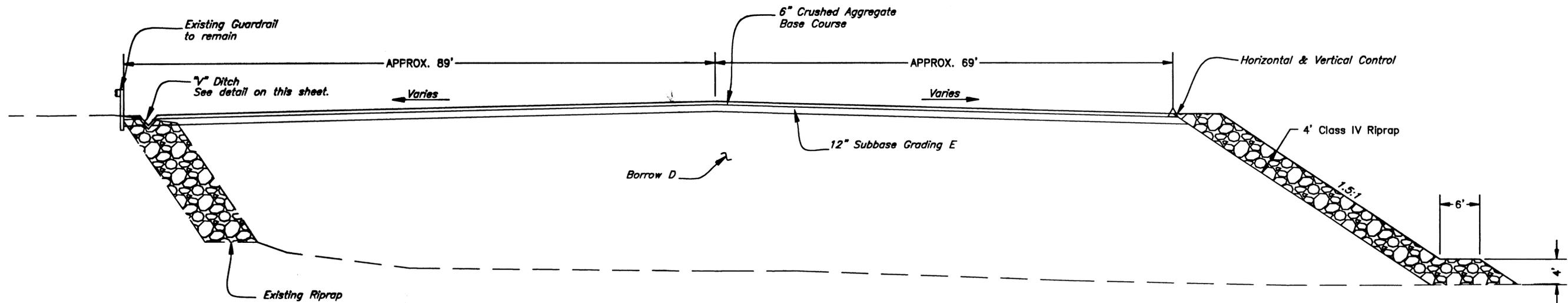
DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S.
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 6 OF 67



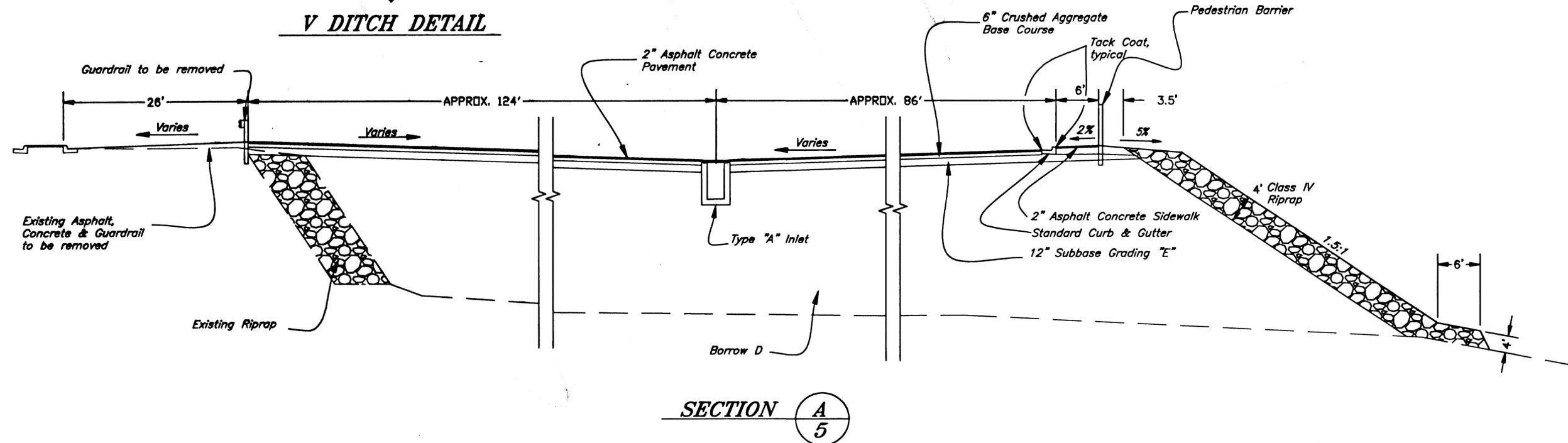
TYPICAL SECTION NOTES:

1. SEE RIPRAP DETAIL ON SHEET 16 FOR SANITARY SEWER OUTFALL.
2. SEE RIPRAP DETAILS FOR ABUTMENT ON SHEET 21.



V DITCH DETAIL

SEE NEW
Sht A2



SECTION A

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 87857
ALASKA
TYPICAL SECTIONS

DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S./D.F.
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 6 OF 87



STORM DRAIN STRUCTURE SUMMARY

STRUCTURE No.	TYPE	FRAME OR LID	STRUCTURES		SUMP ELEV.	REMARKS
			STATION	OFFSET		
(S-1)	TYPE 'A' INLET	FRAME & GRATE	20+34.2	257.2 RT	16.3	INCLUDE TOP & VERTICAL BAFFLE PLATES
(S-2)	48" STORM DRAIN MANHOLE	FRAME & LID	21+55.75	45.4 RT	15.7	
(S-3)	48" STORM DRAIN MANHOLE	FRAME & LID	22+73.2	46 RT	15.1	INCLUDE VERTICAL BAFFLE PLATE

STORM DRAIN PIPE SUMMARY

PIPE No.	DIA. (IN.)	ENTRANCE			EXIT			LENGTH (FT.)	GRADE (%)	REMARKS
		INV. EL.	STATION	OFFSET	INV. EL.	STATION	OFFSET			
(P-1)	48	13.23	20+12.6	34.8 RT	9.63	20+12.3	395 RT	360	1.0	
(P-2)	18	17.80	20+34.2	257.2 RT	14.0	20+13	257 RT	20	---	SEE DETAIL SHEET 18
(P-4)	18	16.55	20+99.8	106.4 RT	14.22	20+99.6	339.3 RT	233	1.0	
(P-7)	18	17.20	21+55.75	45.4 RT	16.60	22+73.2	46 RT	117.4	0.50	
(P-8)	18	18.50	22+73	21.2 RT	16.60	22+73.2	46 RT	26	7.2	
(P-9)	18	16.60	22+73.2	46 RT	14.0	22+73	307.3 RT	261	1.0	

UTILITY PIPE SUMMARY

PIPE No.	DIA. (IN.)	ENTRANCE			EXIT			LENGTH (FT.)	GRADE (%)	REMARKS
		INV. EL.	STATION	OFFSET	INV. EL.	STATION	OFFSET			
(P-3)	24	11.38	20+64	18.6 RT	-30.00	20+22	518 RT	520	VARIES	24" HDPE SS OUTFALL SEE SHEETS 16 & 17
(P-5)	8	17.00	21+68.3	281.6 RT	13.90			164	1.89%	8 INCH PVC SS LINE
(P-5B)	8	13.80			11.53	20+64	18.6 RT	120	1.89%	8 INCH PVC SS LINE
(P-6)	4	-	21+80.9	4 LT	18.00	21+81	284.3 RT	290		8 INCH HDPE WATER LINE

DITCHING SUMMARY

BEGIN STATION "A"	OFFSET		INV. ELEV.	END STATION "A"	OFFSET		INV. ELEV.	REMARKS
	LEFT	RIGHT			LEFT	RIGHT		
21+73		136'	19.0	23+04.2		134'	18.5	"V" DITCH
23+04.3		134'	18.5	23+04.2		287.7'	16.96	"V" DITCH

VALVE BOX SUMMARY

STATION	OFFSET		REMARKS
	LEFT	RIGHT	
20+63.5		26.2'	24" BUTTERFLY VALVE
21+81	1.6'		8" GATE VALVE 6" GATE VALVE-FIRE HYDRANT

PEDESTRIAN BARRIER SUMMARY

STATION	OFFSET		REMARKS
	LEFT	RIGHT	
19+62.17		396.95'	BEGIN BARRIER
21+23.40		295.40'	END BARRIER (LENGTH 190.50')

SIGN SUMMARY

SIGN No.	TYPE	FACING TRAFFIC	SIGN LEGEND	SIZE (IN.)		AREA (SQ. FT.)	# OF POSTS	POST SIZE	POST TYPE	REMARKS	
				WD.	HT.						
1	R1-1	NB	STOP	30	30	6.25	1	64	PST		
2	R5-1	NB	DO NOT ENTER	30	30	6.25				MOUNT ABOVE SIGN #1	
3	SPECIAL	SB	INTER-ISLAND FERRY	66	24	11.00	2	64	PST		
4	R5-1	NB	DO NOT ENTER	30	30	6.25	1	64	PST		
5	R6-1L	NB	ONE WAY	36	12	3.00				MOUNT ABOVE SIGN #4	
6	R1-2	NB	YIELD	30	30	6.25	1	64	PST		
7	R1-1	NB	STOP	30	30	6.25	1	64	PST		
8	SPECIAL	NB	AMHS TERMINAL	60	24	10.00	2	64	PST		
9	SPECIAL	SB	INTER-ISLAND FERRY	66	24	11.00				MOUNT BACK TO BACK WITH SIGN #3	
10	SPECIAL	SB	VEHICLES OVER 30 FT.	66	24	11.00	2	64	PST		
11	SPECIAL	SB	SHORT TERM PARKING	12	18	1.50	1	64	PST		
12	SPECIAL	SB	UNTICKETED PASSENGERS	30	24	5.00	1	64	PST		
13	SPECIAL	SB	UNTICKETED PASSENGERS	30	24	5.00	1	64	PST		
TOTAL				88.75							

PIPE REMOVAL SUMMARY

NO.	PIPE	BEGIN REMOVAL	END REMOVAL	LENGTH	REMARKS
1	48" CMP	20+13.6 22' RT	20+13 208' RT.	173'	REMOVE & DISPOSE
2	18" CAP	21+00 107' RT.	21+21 154' RT.	52'	REMOVE & DISPOSE
3	18" CAP	21+55 45' RT.	21+57 154' RT.	108'	REMOVE & DISPOSE
4	18" CAP	22+73 22' RT.	22+68 140' RT.	118'	REMOVE & DISPOSE
5	12" DI	20+65 21.7' RT.	20+69 41.7' RT.	20'	REMOVE & DISPOSE OF 20' OF 12" DI PIPE, 12" GATE VALVE & VALVE BOX

REMOVAL OF STRUCTURES & OBSTRUCTIONS

NO.	ITEM	QUANTITY	REMARKS
6	GUARDRAIL END SECTION	1 EACH	REMOVE & INSTALL WITH A SALVAGED POST AT STA 21+25.4, 130.9' RT
	GUARDRAIL	706 FT	REMOVE & DISPOSE OF POST, SALVAGE RAIL
	TIDAL DEBRIS IN BASIN-LOGS & STICKS	VARIES	REMOVE & DISPOSE
	ASPHALT PAVEMENT	900 SY	REMOVE & DISPOSE
	ASPHALT SIDEWALK	200 SY	REMOVE & DISPOSE
	CONCRETE CURB & GUTTER	320 FT	REMOVE & DISPOSE
	CONCRETE SIDEWALK	70 SY	REMOVE & DISPOSE
7	CHAIN LINK FENCE	227 FT	REMOVE & REPLACE
8	CHAIN LINK GATE	28 FT	REMOVE
9	10 FT X 195 FT TRAFFIC ISLAND	-	REMOVE CURB, GUTTER & SIDEWALK & DISPOSE, REMOVE & DISPOSE CHAIN LINK FENCE
10	END OF TRAFFIC ISLAND	-	REMOVE & DISPOSE, REMOVE & REINSTALL TRAFFIC SIGN, SEE SHEET 9
4B	ASPHALT, CURB, GUTTER & SIDEWALK FOR WATER MAIN INSTALLATION	-	REMOVE & DISPOSE
5B	ASPHALT, CURB, GUTTER & SIDEWALK FOR SANITARY SEWER OUTFALL INSTALLATION	-	REMOVE & DISPOSE
5C	ASPHALT, CURB, GUTTER & SIDEWALK FOR SANITARY SEWER MAIN INSTALLATION	-	REMOVE & DISPOSE

MANHOLE SUMMARY

STRUCTURE No.	TYPE	FRAME OR LID	STRUCTURE		REMARKS
			STATION	OFFSET	
(S-4)	48" SS MANHOLE	FRAME & LID	21+68.3	281.6' RT	
(S-5)	48" SS MANHOLE	FRAME & LID	21+19.3	125.4' RT.	

FIRE HYDRANT SUMMARY

STATION	OFFSET		REMARKS
	LEFT	RIGHT	
21+73.9		280'	Gate valve to be 4ft. from center of Hydrant

ADDITIONAL NOTES: HYDRANT & TEE SHALL BE THRUST BLOCKED. 1/2 CY WASHED ROCK TO BE COMPACTED UNDER HYDRANT.

JERSEY BARRIER SUMMARY

STATION	OFFSET		LENGTH (FT)	REMARKS
	LEFT	RIGHT		
19+62.40		386.4'		BEGIN RUN
19+60.55		226.4'	160	END RUN
20+16.90		140.4'		BEGIN RUN
20+77.00		140.2'	60	END RUN
21+19.12		113.57'		BEGIN RUN
21+60.70		268'	160	END RUN

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

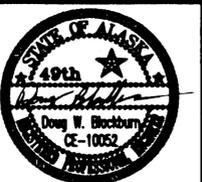
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PLT:	Leonard
BY:	DATE:
DESCRIPTION OF CHANGE:	
RECORD OF REVISIONS	

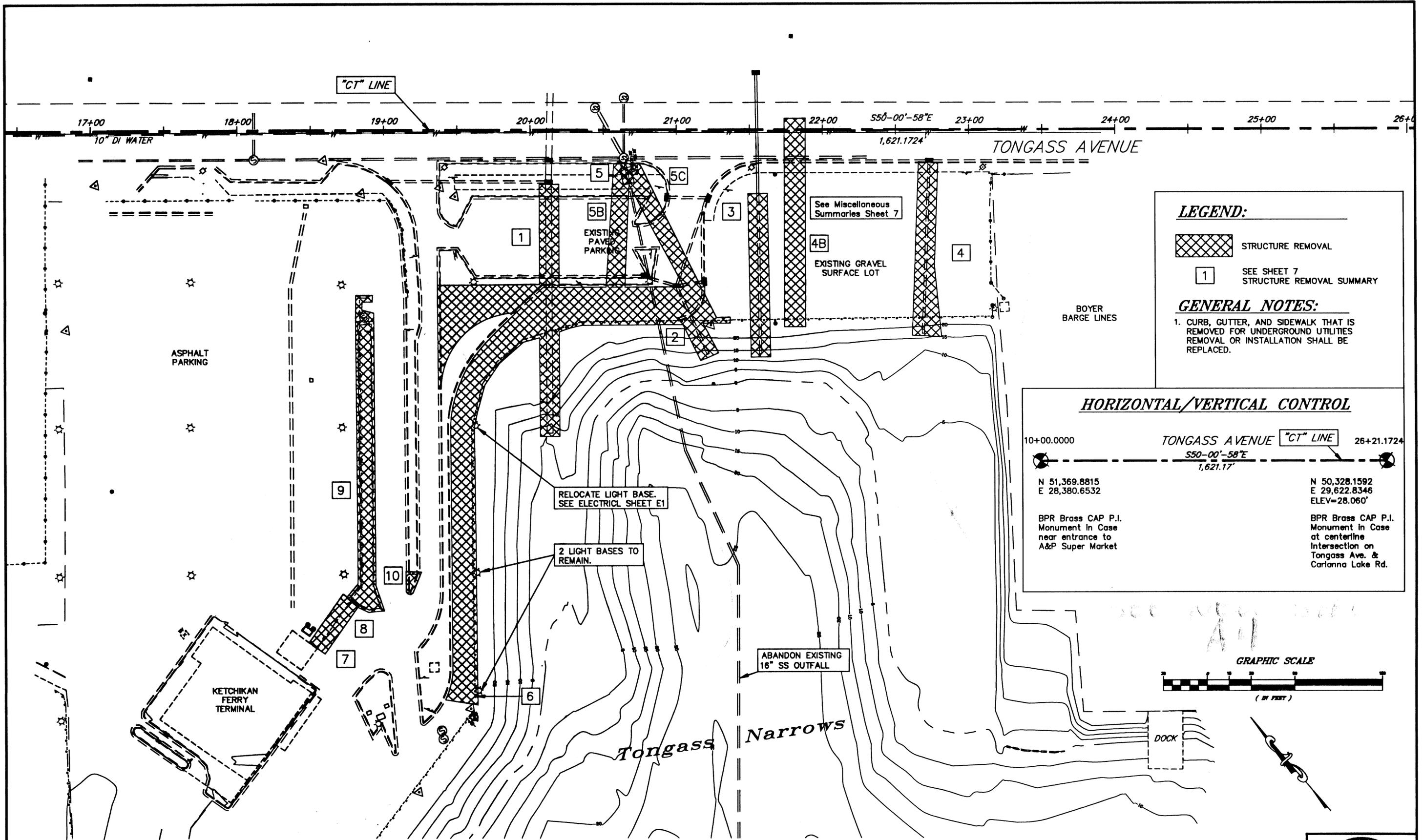
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(87) / 67857

MISCELLANEOUS SUMMARIES

DESIGNED BY:	Blackburn	PROJECT NO.	67857
DRAWN BY:	D.B./R.S.	DATE:	November 2000
CHECKED BY:	Miller	SHEET	7 OF 87





LEGEND:

STRUCTURE REMOVAL

SEE SHEET 7
STRUCTURE REMOVAL SUMMARY

GENERAL NOTES:

1. CURB, GUTTER, AND SIDEWALK THAT IS REMOVED FOR UNDERGROUND UTILITIES REMOVAL OR INSTALLATION SHALL BE REPLACED.

HORIZONTAL/VERTICAL CONTROL

10+00.0000 TONGASS AVENUE "CT" LINE 26+21.1724

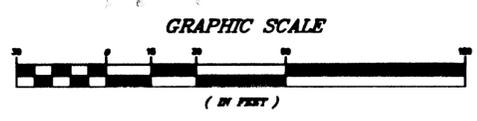
$S50-00'-58"E$
1,621.17'

N 51,369.8815
E 28,380.6532

BPR Brass CAP P.I.
Monument In Case
near entrance to
A&P Super Market

N 50,328.1592
E 29,622.8346
ELEV=28.060'

BPR Brass CAP P.I.
Monument In Case
at centerline
intersection on
Tongass Ave. &
Carlanna Lake Rd.



NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

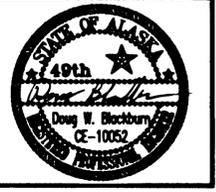
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BY:	DATE:	DESCRIPTION OF CHANGE:	
RECORD OF REVISIONS			

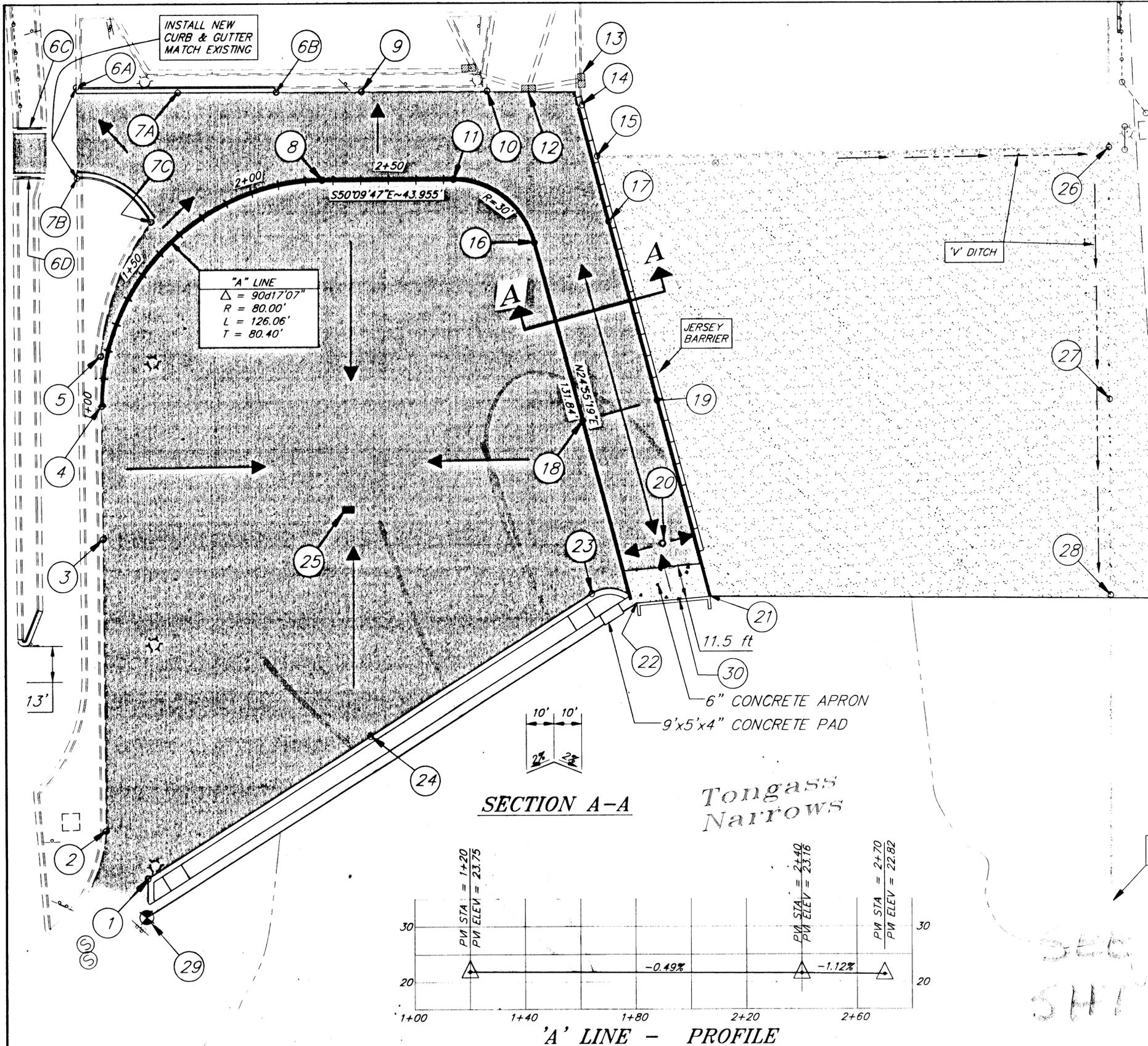
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(87) / 67857

DEMOLITION PLAN/PROJECT CONTROL

DESIGNED BY:	Blackburn	PROJECT NO.	67857
DRAWN BY:	D.B./R.S.	DATE:	November 2000
CHECKED BY:	Miller	SHEET	8 OF 87





NOTES:

- ALL ELEVATIONS ARE EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
- TWO CONCRETE LIGHT BASES WILL REMAIN IN THE STAGING AREA. THE CONTRACTOR WILL HAVE TO WORK AROUND THESE BASES. REFER TO ELECTRICAL DRAWINGS & SPECIFICATIONS.
- FILL PLACED AGAINST RIPRAP AT BOYER BARGE LINES PROPERTY SHALL BE 1 FT. BELOW FINISH GROUND OF THEIR LOT.
- THE 10' x 195' TRAFFIC ISLAND REMOVED AT STA. 18+87, 216' RT. WILL NEED TO BE GRADED AND PAVED WITH 2" ASPHALT CONCRETE. SEE SHEET 8.

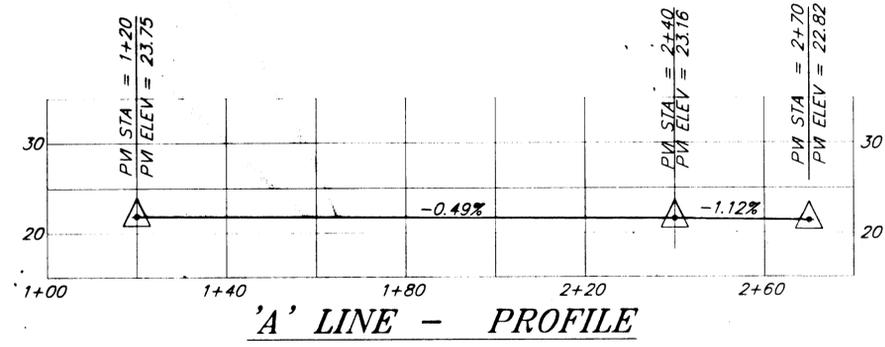
BOYER BARGE LINES

STATION, OFFSET & ELEVATION

POINT NO.	'CT' STATION	OFFSET RT	ELEV.	REMARKS
1	19+61.41	388.02'	22.80	EXISTING GROUND SHOT/LIP OF GUTTER
2	-	370.25'	23.09	EXISTING LIP OF GUTTER
3	-	259.00'	24.00	EXISTING LIP OF GUTTER
4	19+45.48	219.46'	-	BEGINNING OF 'A' LINE
5	-	203.00'	23.75	EXISTING LIP OF GUTTER
6A	19+37.11	105.58'	23.00	BEGIN NEW CURB & GUTTER
6B	20+08.68	105.59'	22.59	END NEW CURB & GUTTER
6C	19+19.60	119.60'	-	BACK PROPOSED CURB
6D	19+19.60	137.60'	-	BACK PROPOSED CURB
7A	19+89.00	-	22.75	LIP OF GUTTER
7B	19+38.14	137.60'	-	BEGIN NEW CURB & GUTTER/RADIUS BACK OF CURB = 27'
7C	19+61.70	151.00'	-	END NEW CURB & GUTTER, BACK OF CURB
8	20+25.29	138.85'	-	PT GRADING BREAKLINE
9	20+38.00	-	22.52	EXISTING LIP OF GUTTER
10	-	-	22.18	EXISTING LIP OF GUTTER
11	20+72.79	138.73'	22.82	END OF TANGENT & 'A' LINE
12	-	-	21.95	EXISTING INLET GRATE
13	-	-	22.04	EXISTING INLET GRATE
14	21+19.10	113.50'	-	END OF CURB & GUTTER REMOVAL
15	21+23.70	123.40'	22.27	EXISTING GROUND SHOT
16	21+01.84	160.93'	23.50	-
17	21+28.87	153.66'	23.50	SPOT ELEVATION
18	21+19.25	225.65'	24.00	SPOT ELEVATION
19	21+46.29	218.37'	24.00	SPOT ELEVATION
20	21+47.92	269.37'	23.30	SPOT ELEVATION
21	21+64.93	287.64'	23.50	CORNER OF ABUTMENT
22	21+38.47	289.97'	23.50	CORNER OF ABUTMENT
23	21+22.19	286.64'	23.11	LIP OF GUTTER/BEGIN RADIUS
24	20+41.99	337.19'	23.00	LIP OF GUTTER
25	20+34.19	257.15'	21.00	PROPOSED INLET
26	23+10.19	127.19'	21.50	CORNER OF LOT
27	23+10.17	218.41'	21.22	SPOT ELEVATION
28	23+10.16	287.67'	21.00	CORNER OF LOT
29	19+60.84	401.92	22.57	MONUMENT (2" ALUM. CAP)
30	N 50,407.3298, E 29,079.2683;			IN WATER CONTROL LINE

LEGEND:

- PROPOSED ASPHALT PAVEMENT
- PROPOSED CRUSHED AGGREGATE BASE COURSE
- GRADING BREAKLINE
- DRAINAGE VECTOR
- DITCHING



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SHT A 5

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

NO.	DATE	DESCRIPTION OF CHANGE

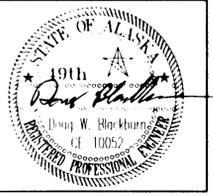
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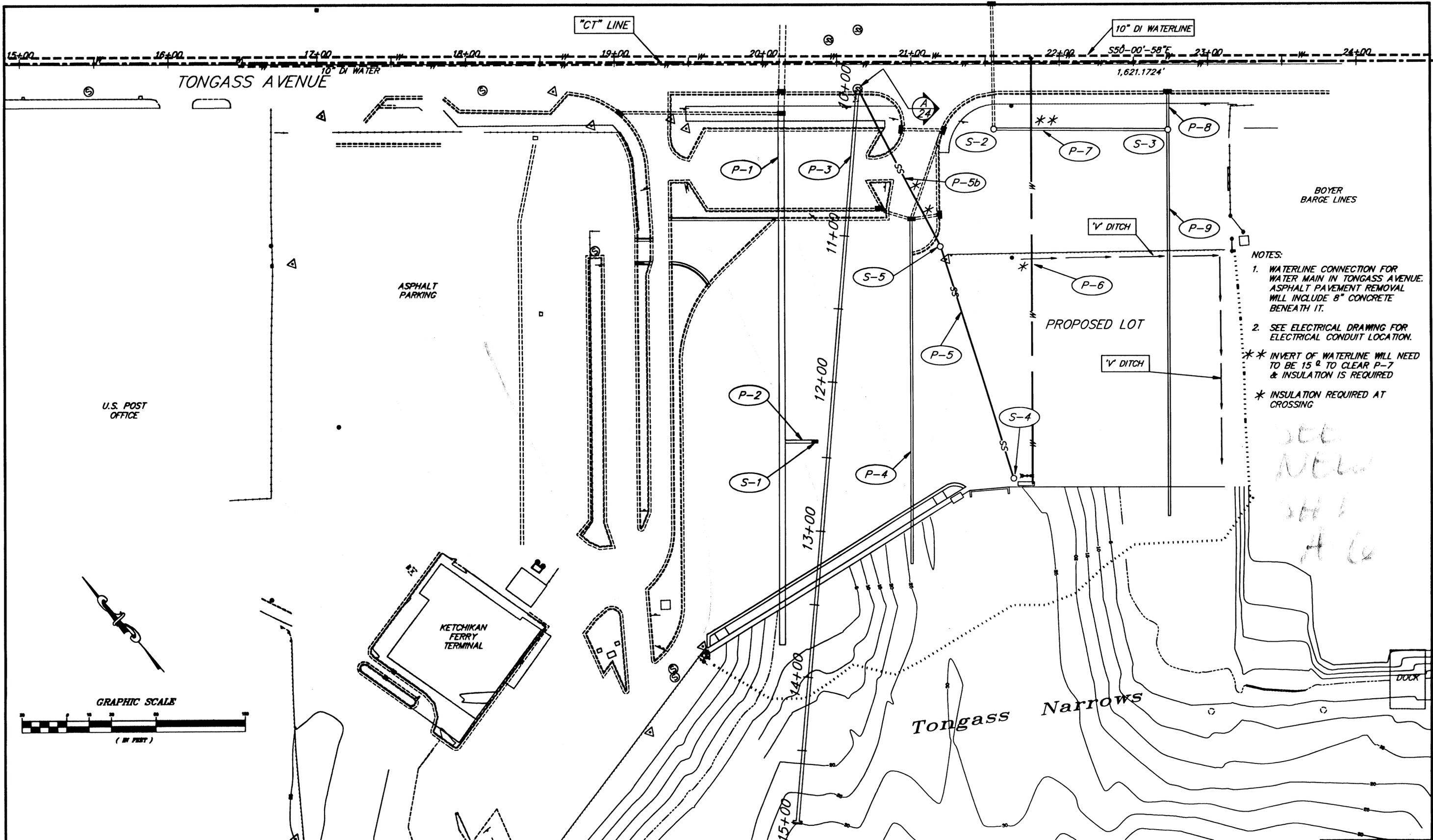
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
GRADING PLAN

DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S.
CHECKED BY: Miller

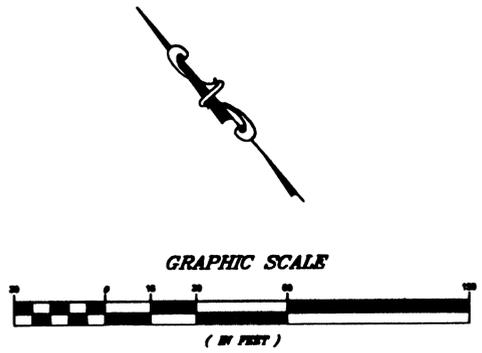
PROJECT NO. 67857
DATE: November 2000
SHEET 9 OF 87





- NOTES:
1. WATERLINE CONNECTION FOR WATER MAIN IN TONGASS AVENUE. ASPHALT PAVEMENT REMOVAL WILL INCLUDE 8" CONCRETE BENEATH IT.
 2. SEE ELECTRICAL DRAWING FOR ELECTRICAL CONDUIT LOCATION.
- ** INVERT OF WATERLINE WILL NEED TO BE 15' TO CLEAR P-7 & INSULATION IS REQUIRED
- * INSULATION REQUIRED AT CROSSING

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NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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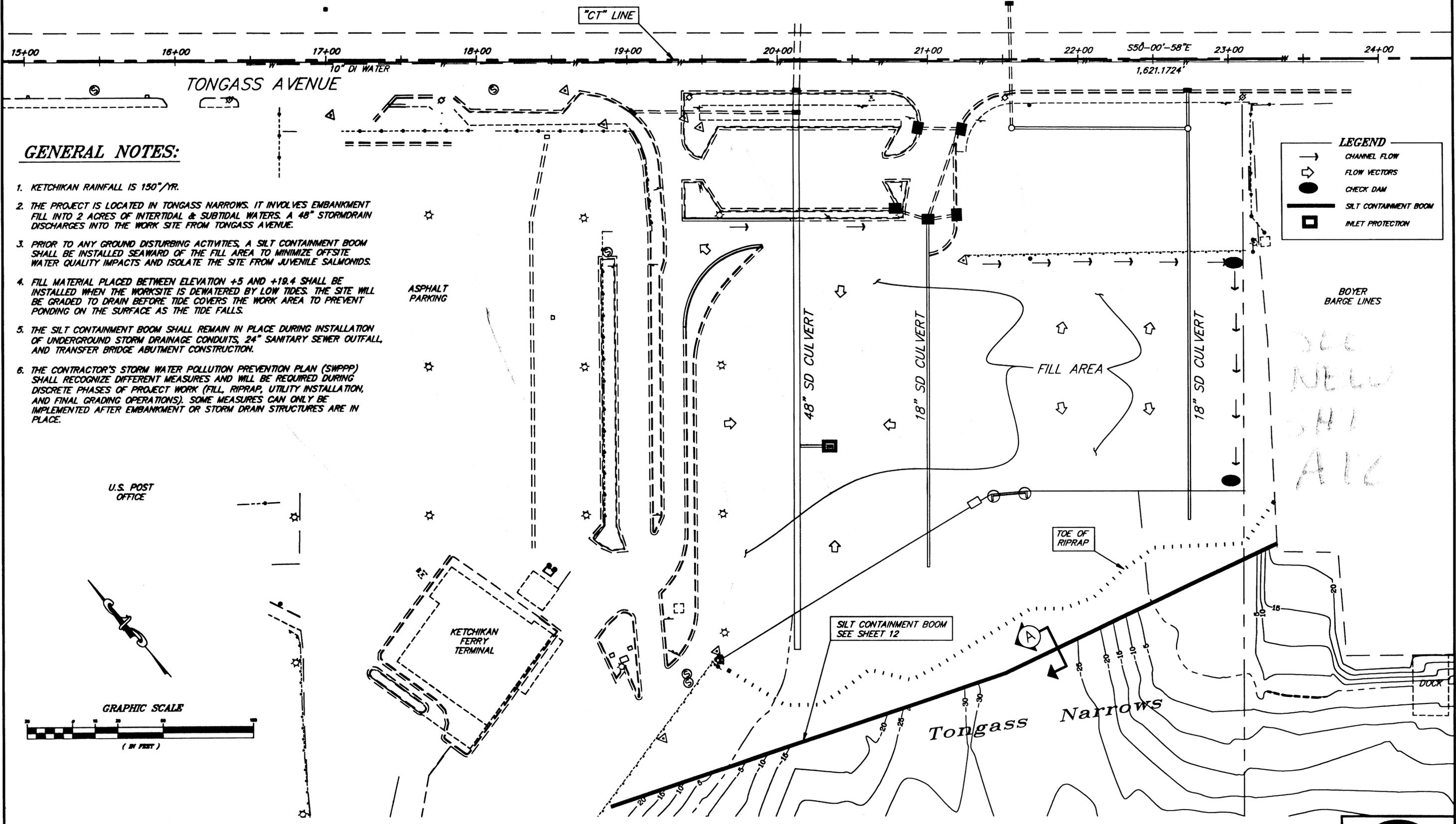
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857 ALASKA
DRAINAGE & UTILITY PLAN

DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S.
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 10 OF 87





GENERAL NOTES:

1. KETCHIKAN RAINFALL IS 150"/YR.
2. THE PROJECT IS LOCATED IN TONGASS NARROWS. IT INVOLVES EMBANKMENT FILL INTO 2 ACRES OF INTERTIDAL & SUBTIDAL WATERS. A 48" STORMDRAIN DISCHARGES INTO THE WORK SITE FROM TONGASS AVENUE.
3. PRIOR TO ANY GROUND DISTURBING ACTIVITIES, A SILT CONTAINMENT BOOM SHALL BE INSTALLED SEAWARD OF THE FILL AREA TO MINIMIZE OFFSITE WATER QUALITY IMPACTS AND ISOLATE THE SITE FROM JUVENILE SALMONIDS.
4. FILL MATERIAL PLACED BETWEEN ELEVATION +5 AND +19.4 SHALL BE INSTALLED WHEN THE WORKSITE IS DEWATERED BY LOW TIDES. THE SITE WILL BE GRADED TO DRAIN BEFORE TIDE COVERS THE WORK AREA TO PREVENT PONDING ON THE SURFACE AS THE TIDE FALLS.
5. THE SILT CONTAINMENT BOOM SHALL REMAIN IN PLACE DURING INSTALLATION OF UNDERGROUND STORM DRAINAGE CONDUITS, 24" SANITARY SEWER OUTFALL AND TRANSFER BRIDGE ABUTMENT CONSTRUCTION.
6. THE CONTRACTOR'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL RECOGNIZE DIFFERENT MEASURES AND WILL BE REQUIRED DURING DISCRETE PHASES OF PROJECT WORK (FILL, RIPRAP, UTILITY INSTALLATION, AND FINAL GRADING OPERATIONS). SOME MEASURES CAN ONLY BE IMPLEMENTED AFTER EMBANKMENT OR STORM DRAIN STRUCTURES ARE IN PLACE.

LEGEND

- CHANNEL FLOW
- ⇨ FLOW VECTORS
- CHECK DAM
- ▬ SILT CONTAINMENT BOOM
- INLET PROTECTION

BOYER BARGE LINES

SEE NEW SHIP ALC

U.S. POST OFFICE

KETCHIKAN FERRY TERMINAL

GRAPHIC SCALE
(IN FEET)

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

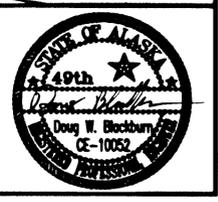
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RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857

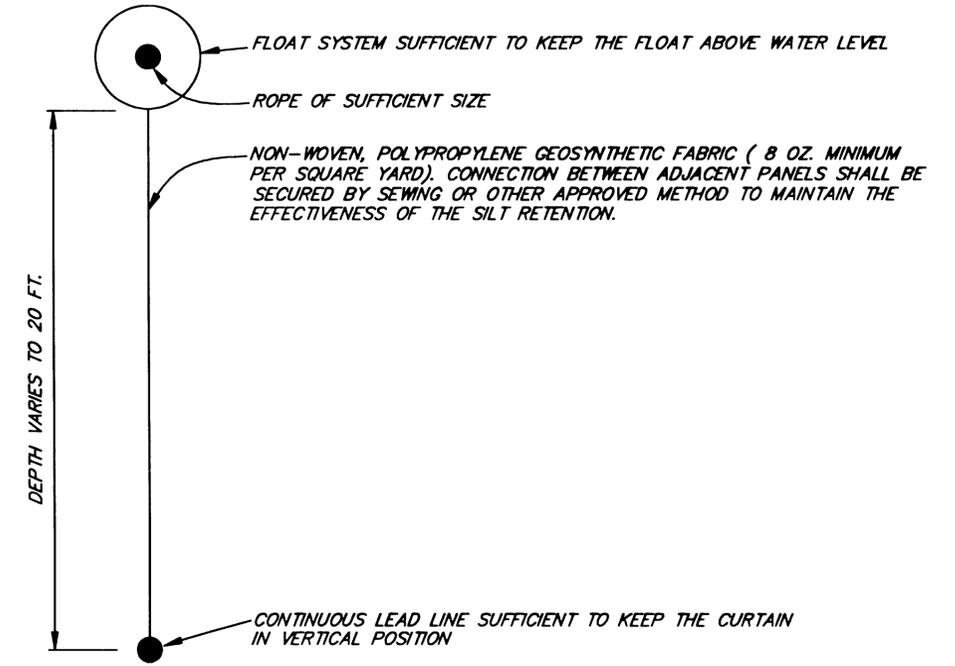
EROSION & SEDIMENT CONTROL PLAN

DESIGNED BY: Blackburn	PROJECT NO. 67857
DRAWN BY: D.B./R.S.	DATE: November 2000
CHECKED BY: Miller	SHEET 11 OF 87



EROSION & POLLUTION CONTROL NOTES:

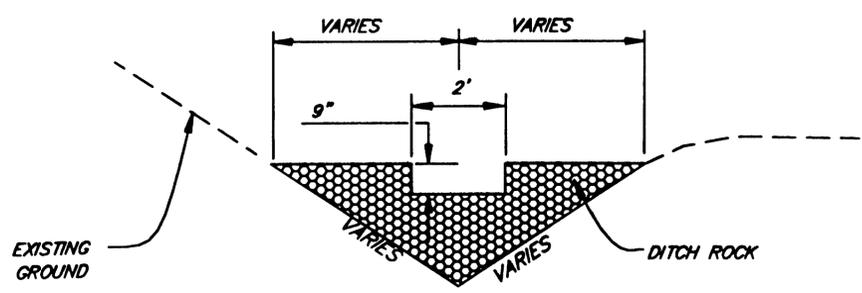
1. RAINFALL DATA
KETCHIKAN, ALASKA
130"/YEAR
2. FILL MATERIAL PLACED IN THE INTERTIDAL AREAS (ELEV = +5.0 TO +19.4 ft) SHALL OCCUR DURING DE-WATERED CONDITIONS BY LOW TIDES.
3. INLET PROTECTION, TEMPORARY CHECK DAMS, AND BERMS SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE EROSION & SEDIMENT CONTROL PLAN.
4. WATER CONVEYED BY STORM DRAIN PIPES TO BE REMOVED WILL BE ALLOWED TO DRAIN INTO THE EXISTING ROCK FILL AFTER REMOVAL. NEW STORMDRAIN PIPE WILL BE INSTALLED ONCE THE EXISTING PIPE IS REMOVED.



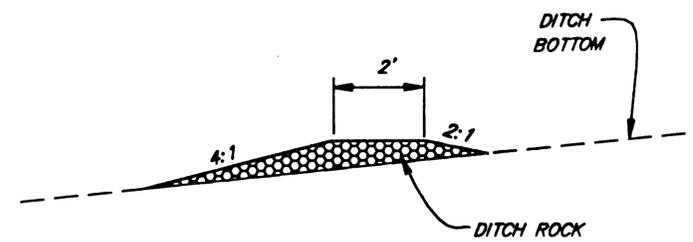
(A) SILT CONTAINMENT BOOM

SILT CONTAINMENT BOOM NOTES:

1. BEFORE GROUND DISTURBING ACTIVITIES, INCLUDING EXCAVATION OR EMBANKMENT OCCURS AT THE PROJECT SITE, THE CONTRACTOR SHALL INSTALL A SILT CONTAINMENT BOOM TO ISOLATE THE WORKSITE FROM TONGASS NARROWS. THE BOOM SHALL EXTEND FROM BANK TO BANK AND SHALL RISE & FALL WITH THE TIDES. THE BOOM MATERIAL SHALL REST ON THE EMBANKMENT SLOPES DURING THE ENTIRE TIDAL CYCLE. AT HIGH TIDES, THE BOOM SHALL CLEAR THE BOTTOM BY 3-6 FT.
2. THE BOOM SHALL BE MAINTAINED 24 HOURS PER DAY BY THE CONTRACTOR AND UPON REMOVAL, SHALL BE THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL SUBMIT AN ANCHORING PLAN FOR DEPARTMENT REVIEW. THE ANCHORING SYSTEM MUST BE STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF ALASKA. THE BOOM SHALL BE SECURED SUFFICIENTLY TO WITHSTAND WIND, SEAS, PROPELLER WASH, AND TIDAL FORCES REASONABLY EXPECTED AT THE SITE.
4. THE BOOM SHALL REMAIN IN PLACE UNTIL EMBANKMENT IS ABOVE ELEV. 19.4 FT., EARTH WORK REQUIRED FOR INSTALLATION OF SEWER AND DRAINAGE CONDUITS IS COMPLETE, AND WATER QUALITY IS DEEMED ACCEPTABLE BY THE ENGINEER.

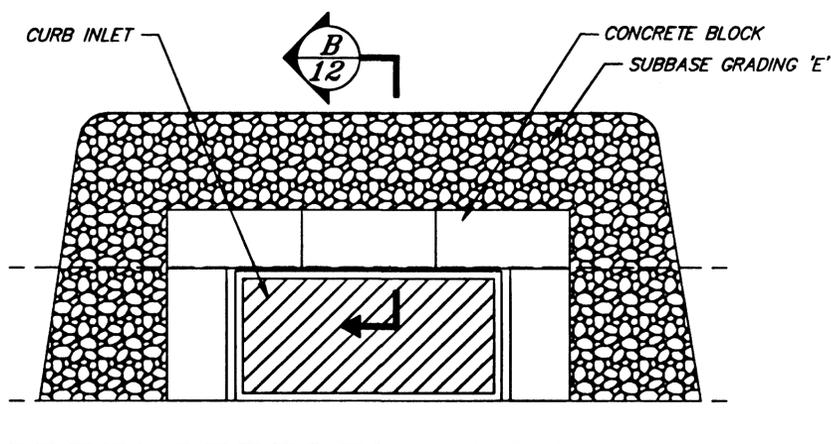


SECTION

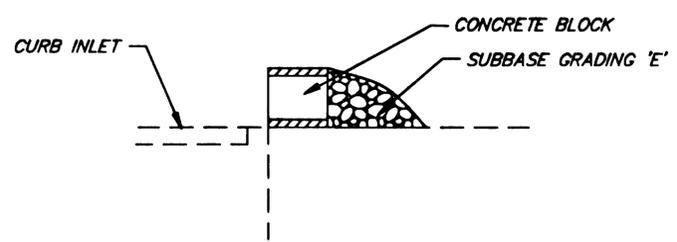


PROFILE

TEMPORARY CHECK DAM DETAIL



PLAN



(B) SECTION

INLET BARRIER

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

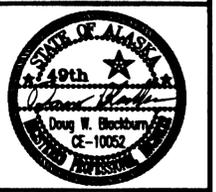
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

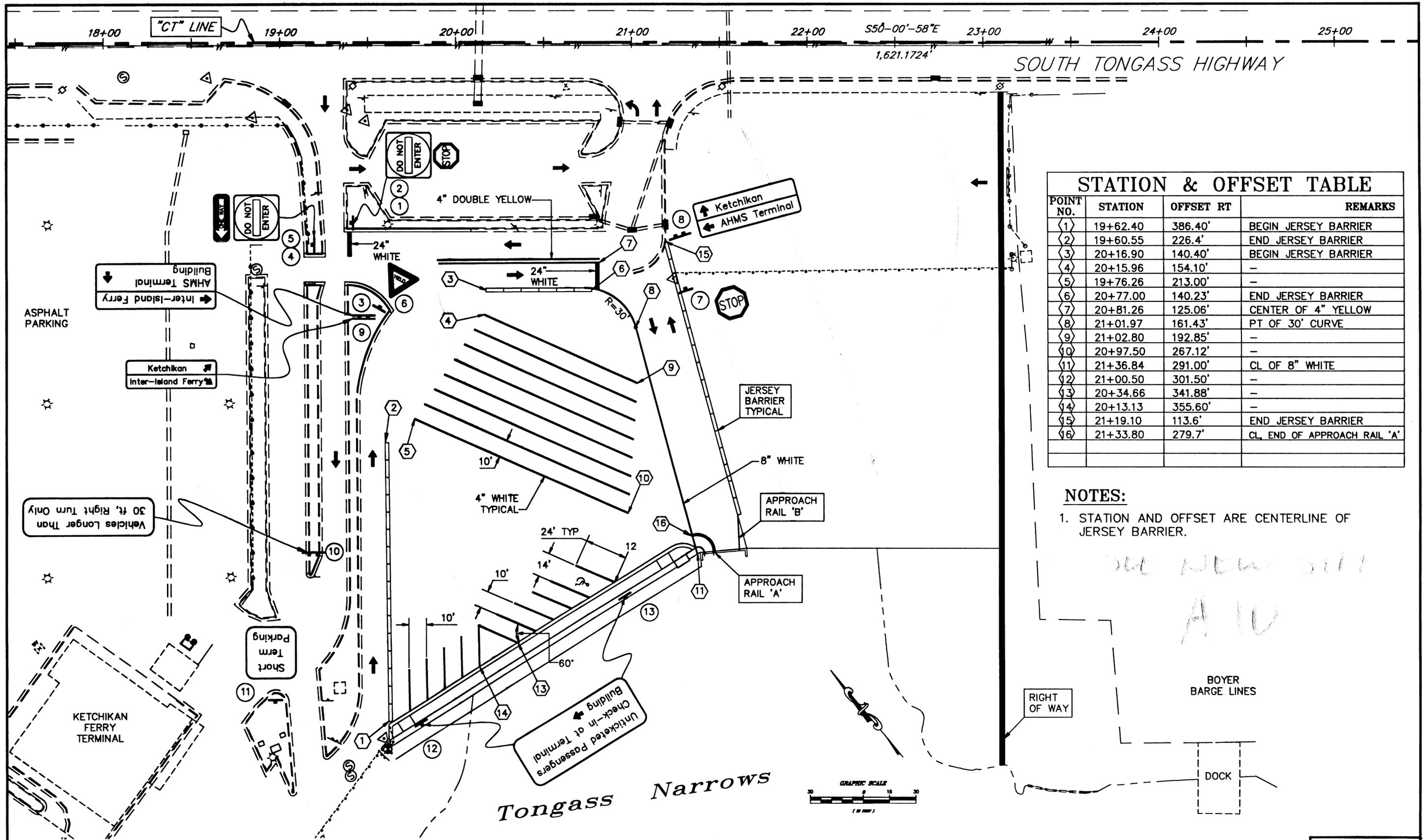
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
EROSION & SEDIMENT CONTROL DETAILS

DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S.
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 12 OF 67

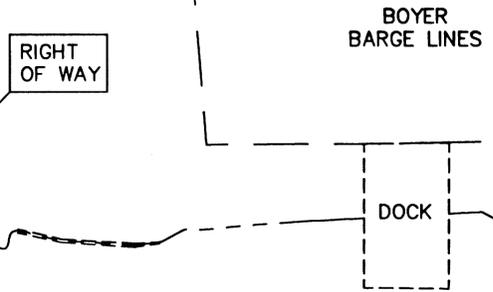




STATION & OFFSET TABLE			
POINT NO.	STATION	OFFSET RT	REMARKS
1	19+62.40	386.40'	BEGIN JERSEY BARRIER
2	19+60.55	226.4'	END JERSEY BARRIER
3	20+16.90	140.40'	BEGIN JERSEY BARRIER
4	20+15.96	154.10'	-
5	19+76.26	213.00'	-
6	20+77.00	140.23'	END JERSEY BARRIER
7	20+81.26	125.06'	CENTER OF 4" YELLOW
8	21+01.97	161.43'	PT OF 30' CURVE
9	21+02.80	192.85'	-
10	20+97.50	267.12'	-
11	21+36.84	291.00'	CL OF 8" WHITE
12	21+00.50	301.50'	-
13	20+34.66	341.88'	-
14	20+13.13	355.60'	-
15	21+19.10	113.6'	END JERSEY BARRIER
16	21+33.80	279.7'	CL, END OF APPROACH RAIL 'A'

NOTES:
 1. STATION AND OFFSET ARE CENTERLINE OF JERSEY BARRIER.

see new striping A10



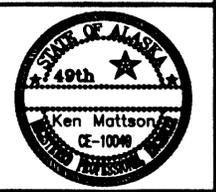
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

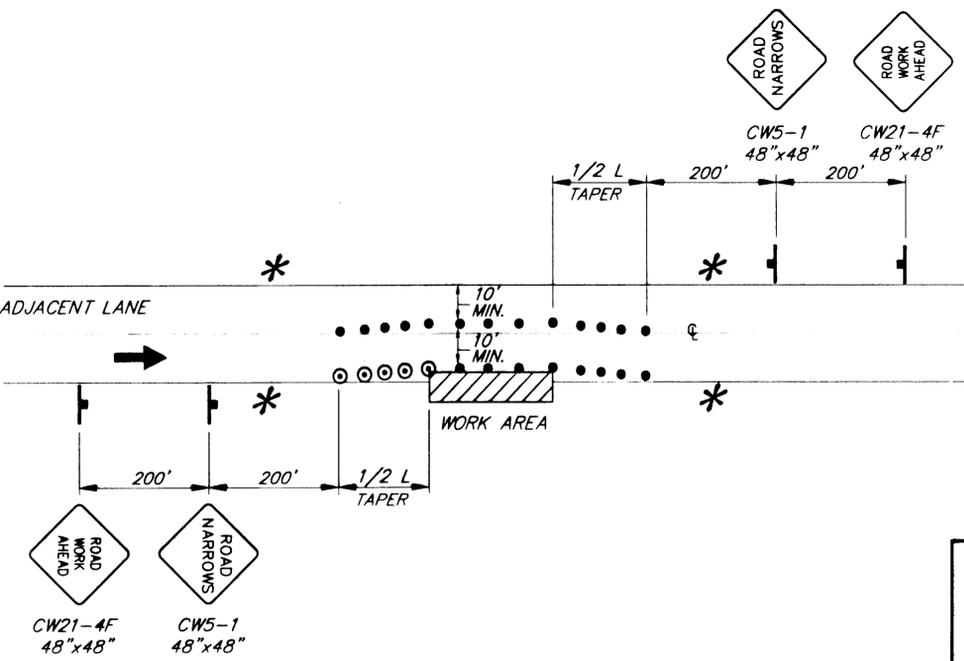
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RECORD OF REVISIONS		

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

KETCHIKAN
 KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(67) / 67857
 ALASKA
STRIPING & SIGNING PLAN

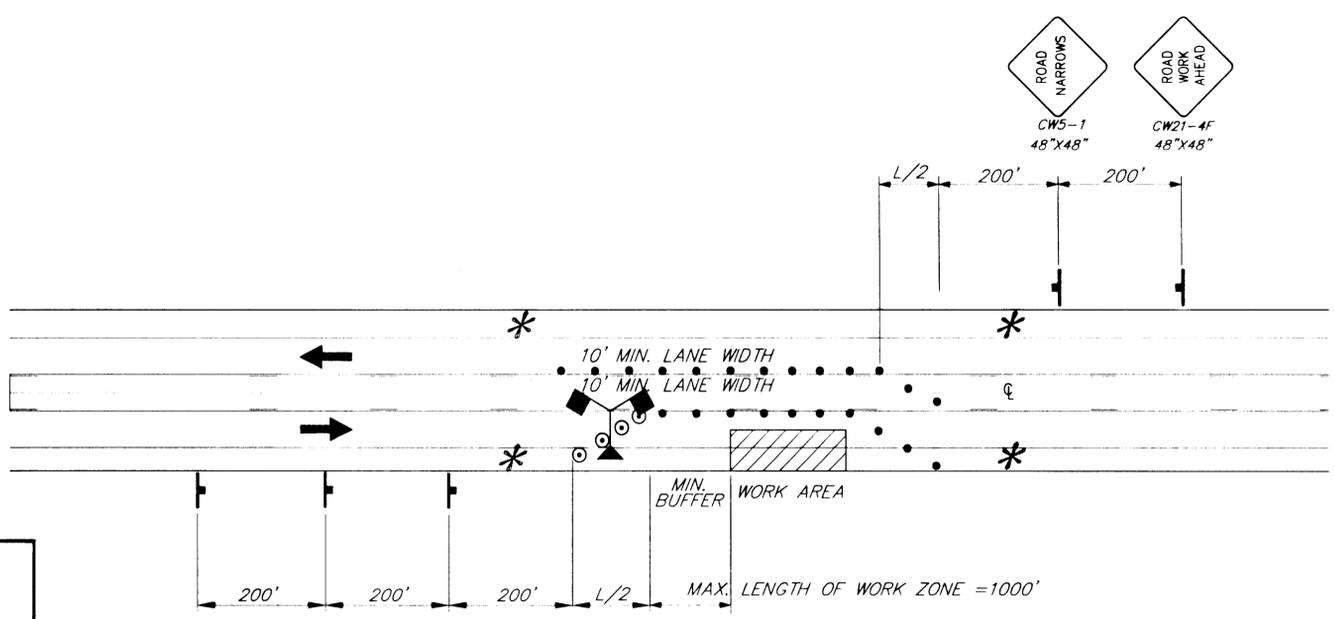
DESIGNED BY: <i>Mattson</i>	PROJECT NO. 67857
DRAWN BY: <i>Snyder</i>	DATE: November 2000
CHECKED BY: <i>Lukshin</i>	SHEET 13 OF 67



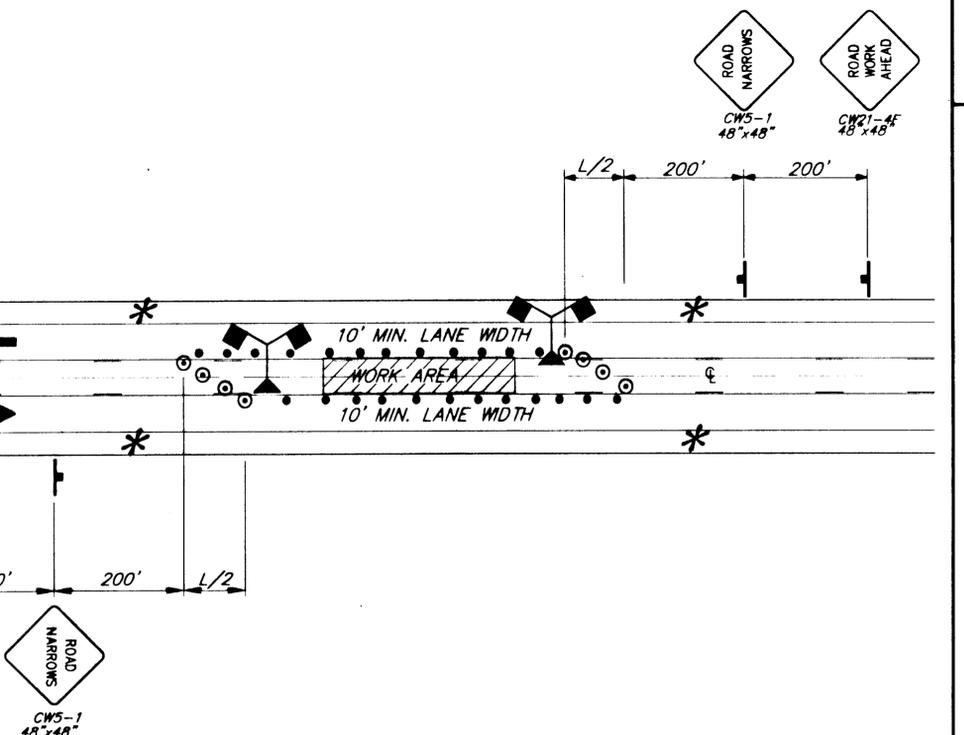


ROADWAY ENCROACHMENT

NOTE: IF ONLY ONE LANE IS EFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 3m TO CENTERLINE) THE SIGNS AND CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.



TWO-WAY TRAFFIC USING CENTER LANE



TWO-WAY TRAFFIC CENTER LANE CLOSURE

LEGEND

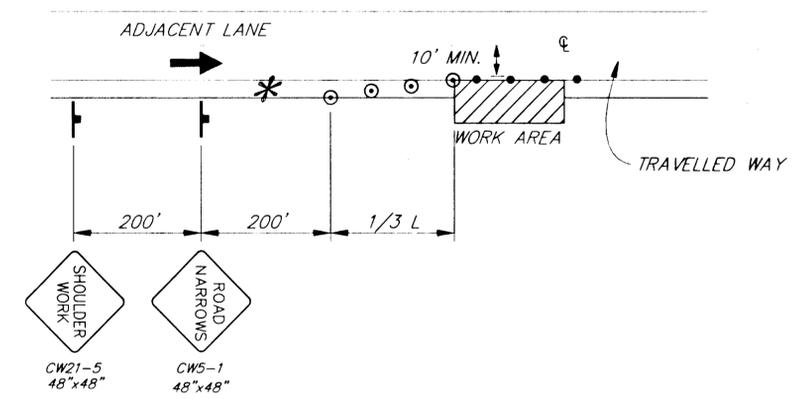
- SIGN
- CONE
- ⊙ DRUM
- III TYPE III BARRICADE
- FLAGGING STATION
- HI-LEVEL WARNING DEVICE

* NO PARKING WITHIN 20' OF CONES

$L = W \times T$

WHERE:
 L = LENGTH OF TAPER
 W = WIDTH OF OFFSET
 T = TAPER FACTOR

TCP SETUP TABLE			
SPEED (MPH)	BUFFER LENGTH (FT)	CONE/DRUM SPACING (FT)	TAPER RATE (T)
20	35	20	7:1
25	55	25	10:1
30	85	30	15:1
35	120	35	20:1
40	170	40	40:1
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



SHOULDER WORK

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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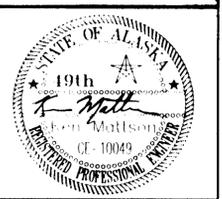
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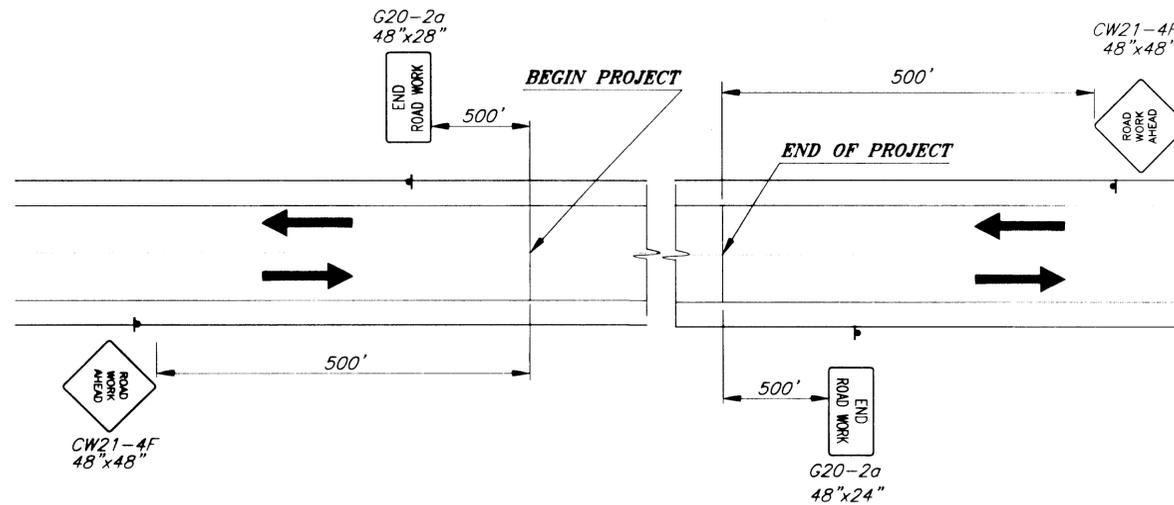
RD OF REVISIONS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

KETCHIKAN
 KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(67) / 67857
 ALASKA
TRAFFIC CONTROL PLAN

DESIGNED BY: Mattson	PROJECT NO. 67857
DRAWN BY: Snyder	DATE: November 2000
CHECKED BY: Lukshin	SHEET 14 OF 87





PERMANENT CONSTRUCTION SIGNING

TRAFFIC CONTROL NOTES

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
2. TWO WAY TRAFFIC WILL BE MAINTAINED AT ALL TIMES ON TONGASS AVENUE.
3. TRAFFIC LANES SHALL BE A MINIMUM OF 10' WIDE.
4. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
5. IF TRAFFIC DELAYS BECOME LONGER THAN 3 MINUTES AVERAGE PER VEHICLE, THE PROJECT ENGINEER MAY REQUIRE NIGHTTIME OPERATIONS.
6. OPEN EXCAVATIONS ALONG ROADWAY AND PEDESTRIAN FACILITIES SHALL NOT BE ALLOWED DURING NON-WORKING HOURS.

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

67857\Planset\s15-Tcp.dwg	
NO.	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

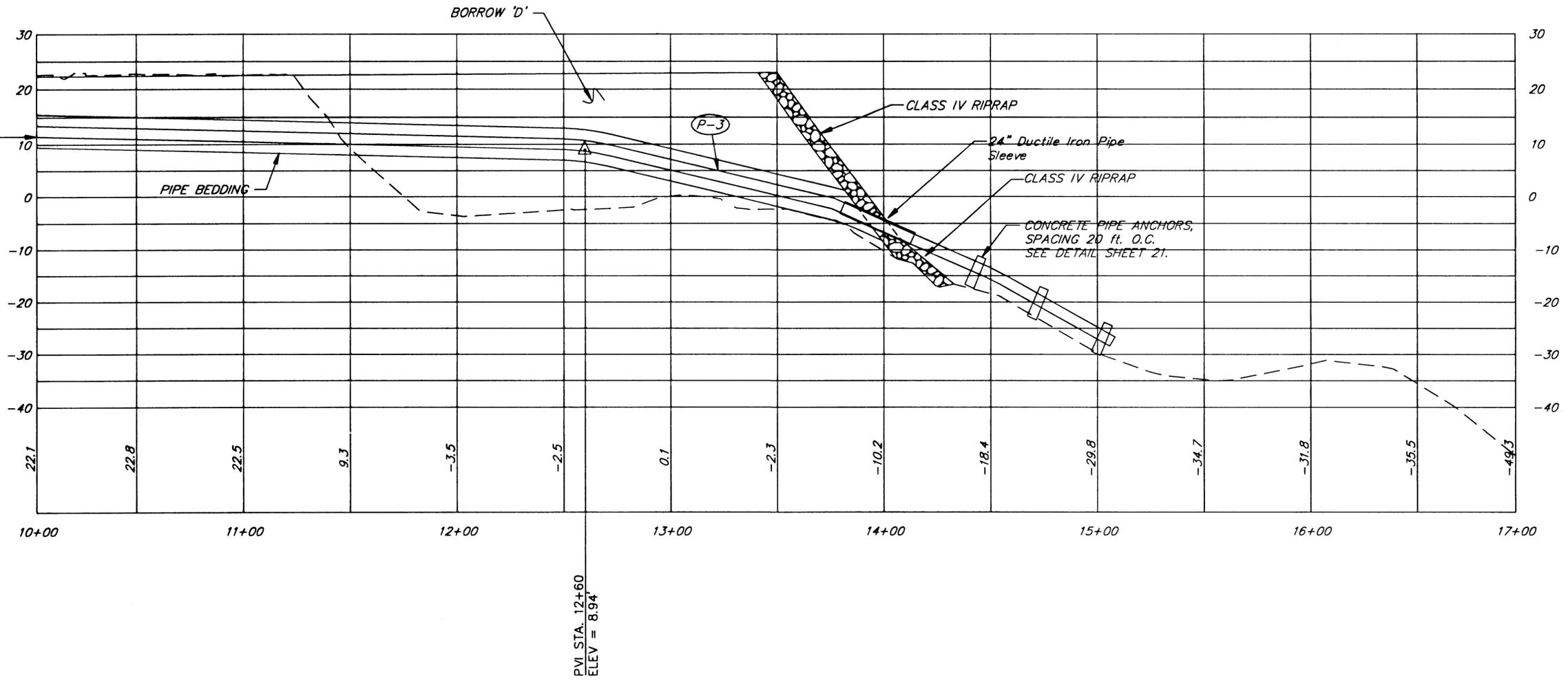
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
TRAFFIC CONTROL PLAN

DESIGNED BY: *Mattson*
DRAWN BY: *Snyder*
CHECKED BY: *Lukshin*

PROJECT NO. 67857
DATE: November 2000
SHEET 15 OF 87



AT MANHOLE
= 11.49'



OUTFALL PROFILE NOTES:

100 ft. PIPE RADIUS IS 100 ft.

SANITARY SEWER OUTFALL PROFILE

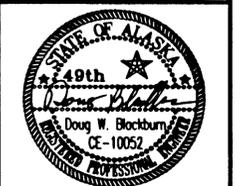
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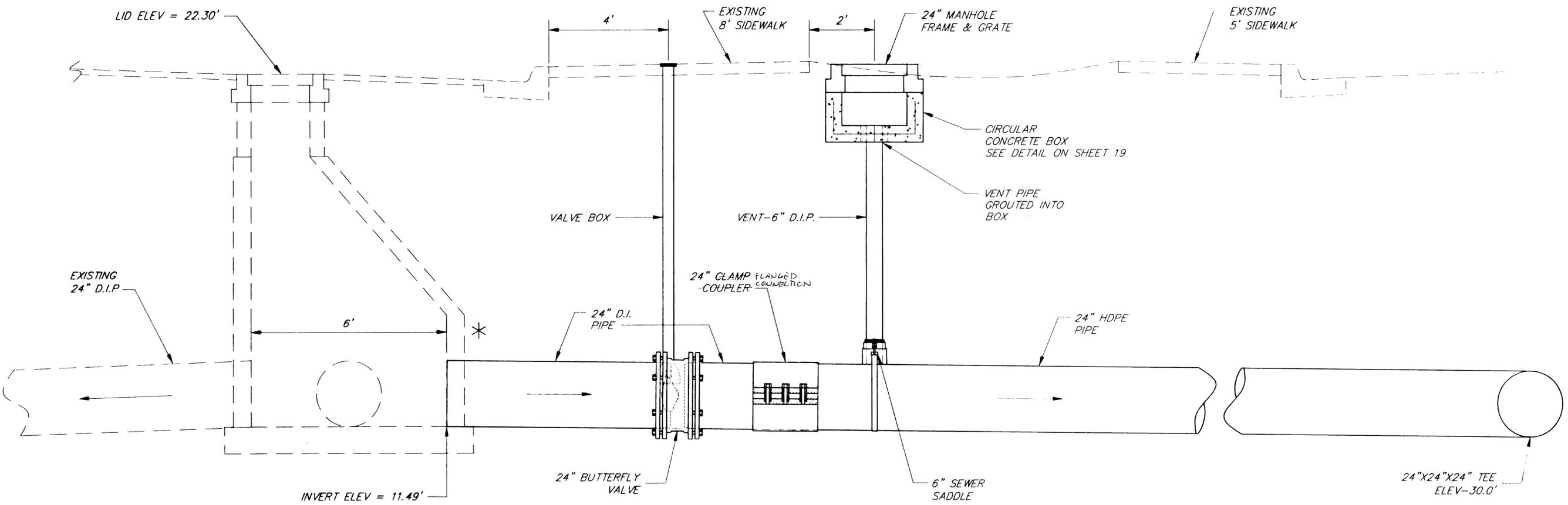
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AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
SANITARY SEWER OUTFALL PROFILE

DESIGNED BY: Blackburn	PROJECT NO. 67857
DRAWN BY: D.B./R.S.	DATE: November 2000
CHECKED BY: Miller	SHEET 16 OF 87





**SANITARY SEWER OUTFALL
MANHOLE CONNECTION**

* AT THIS LOCATION THERE IS AN EXISTING 12" D.I. VALVE & PIPE STUBBED INTO THE MANHOLE THAT HAS TO BE REMOVED BEFORE INSTALLING THE PROPOSED 24" VALVE & PIPE.

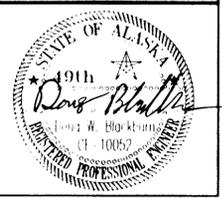
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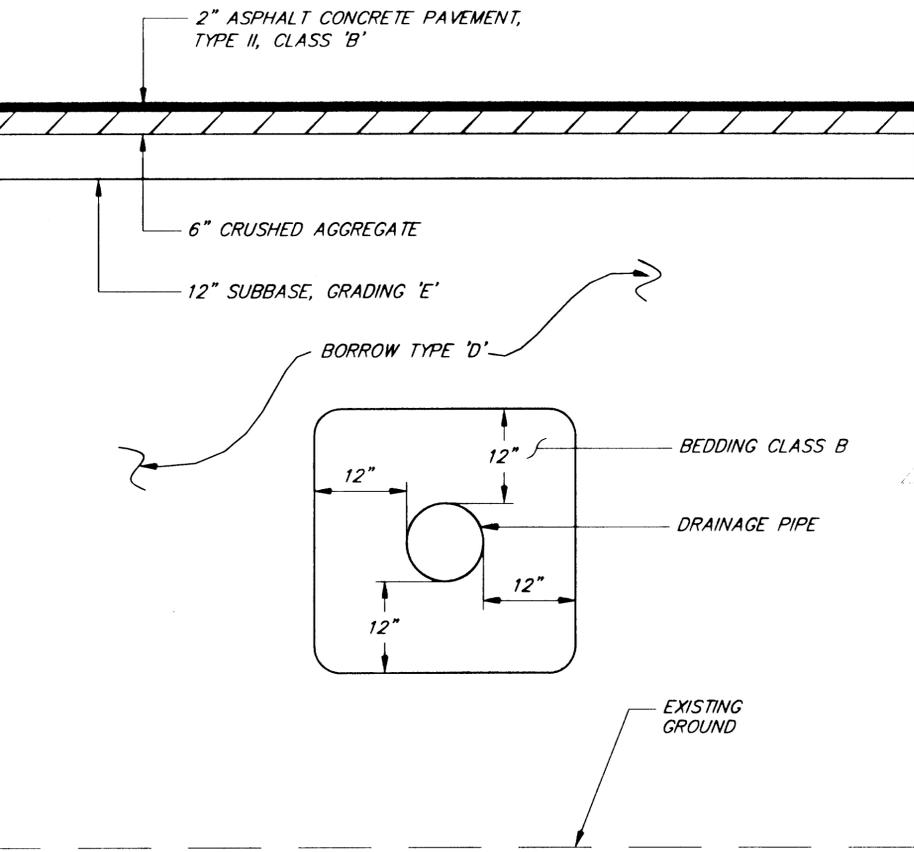
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

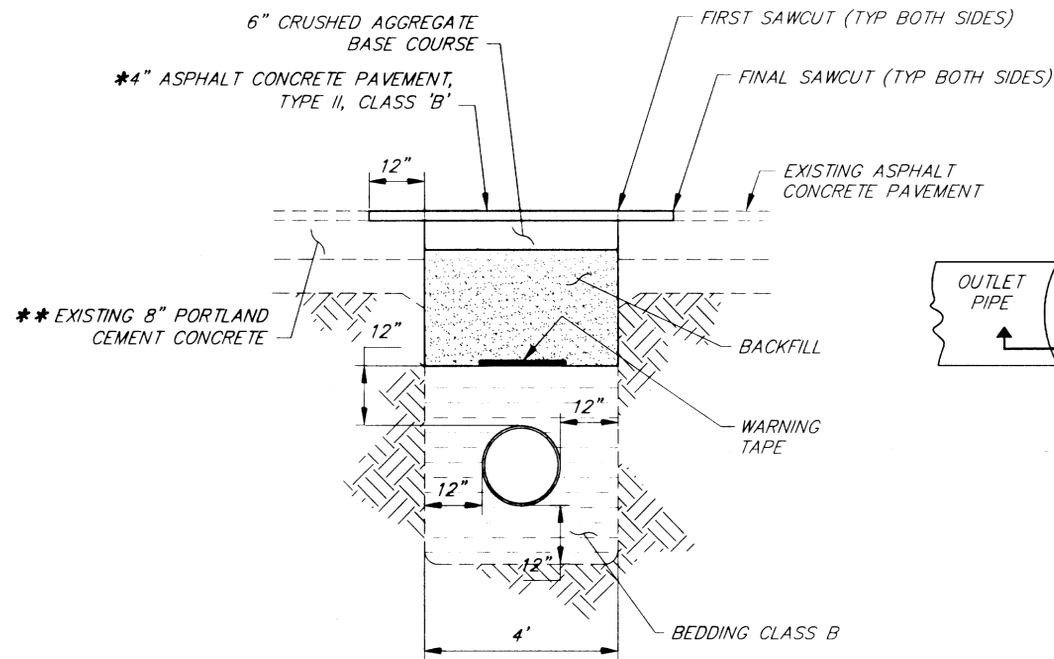
KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
**SANITARY SEWER OUTFALL
MANHOLE CONNECTION**

DESIGNED BY: <i>Blackburn</i>	PROJECT NO. 67857
DRAWN BY: <i>D.B./R.S.</i>	DATE: November 2000
CHECKED BY: <i>Miller</i>	SHEET 17 OF 87



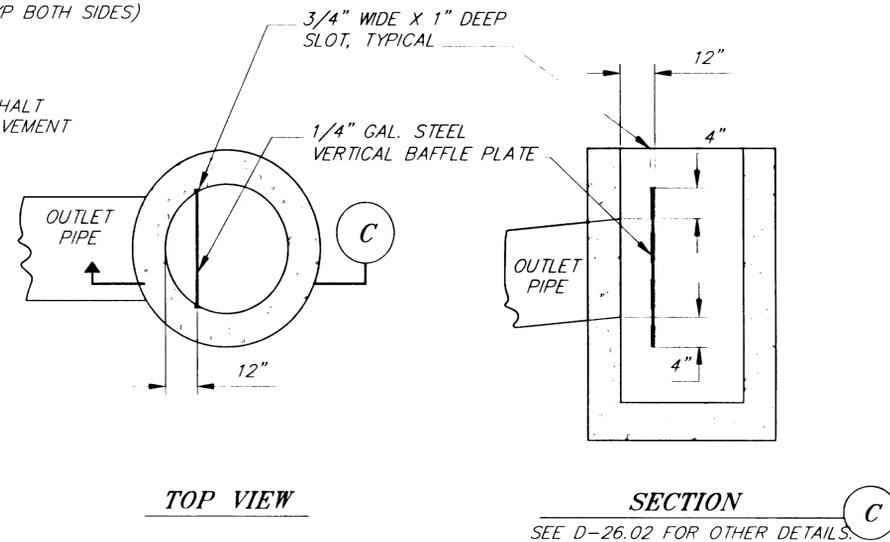


**SS OUTFALL & DRAINAGE PIPE
BEDDING DETAIL**

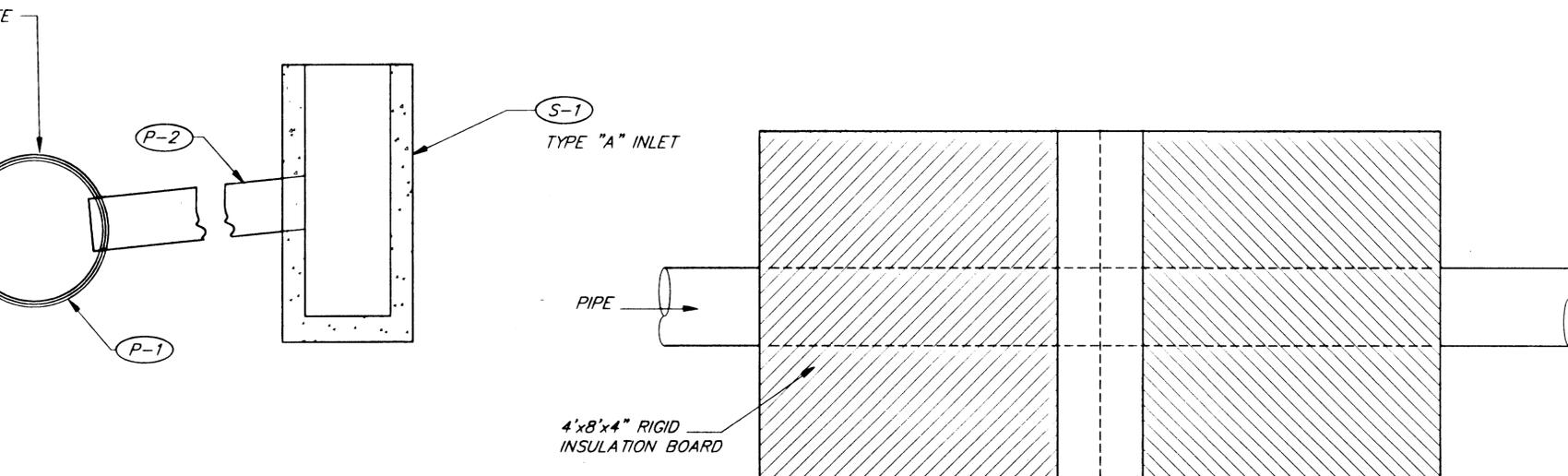


**WATER & SEWER
BEDDING DETAIL**

- * 4" IN TONGASS AVENUE
2" OUTSIDE OF TONGASS AVENUE
- ** 8" PORTLAND CEMENT CONCRETE
EXISTS INSIDE TONGASS AVENUE ONLY

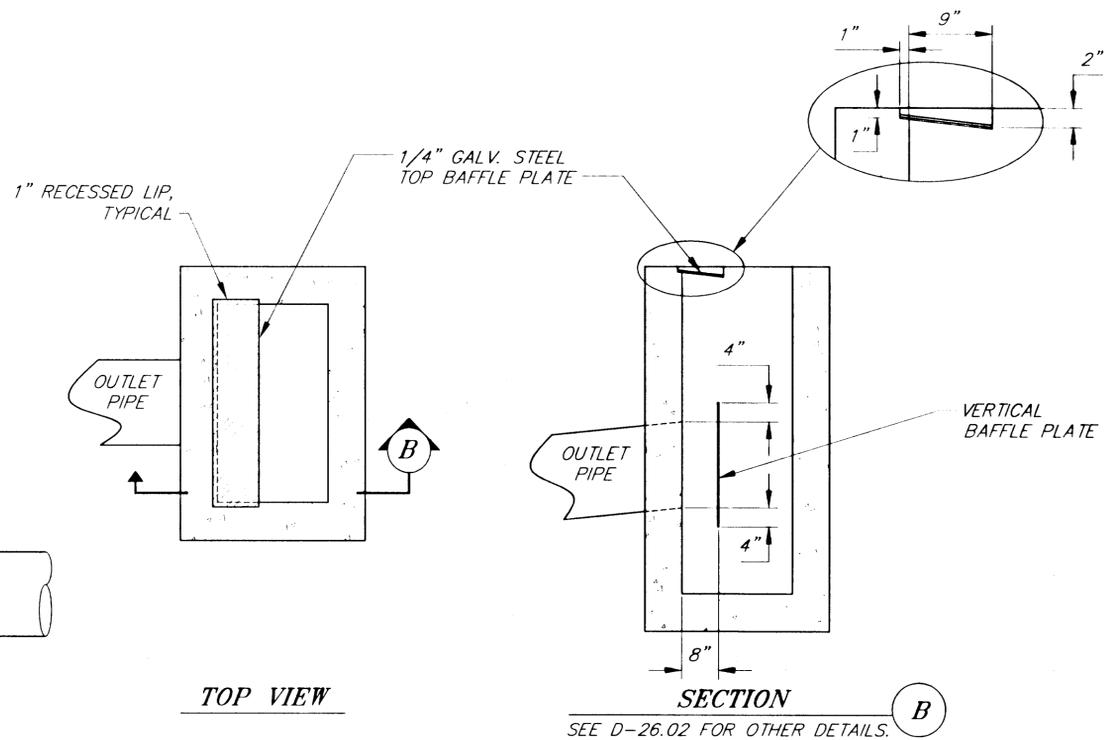


**BAFFLE PLATE
48" Ø STORM DRAIN MANHOLE**



CONNECTION DETAIL

INSULATION PLAN



TYPE 'A' INLET W/TOP & VERTICAL BAFFLE PLATES

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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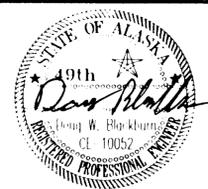
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67857

DRAINAGE DETAILS

DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S./L.R.
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 18 OF 87



MANHOLE NOTES

A.S.T.M. DESIGNATION C-478 FOR DESIGN REQUIREMENTS.

STEEL REQUIRED FOR BARREL AS PER A.S.T.M. C-478-69
EMBEDDED IN BASE SO THAT FIRST BARREL SECTION IS
WITH BASE

BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE 18"
FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF CONE.

TO EXTEND 2" INTO MANHOLE.

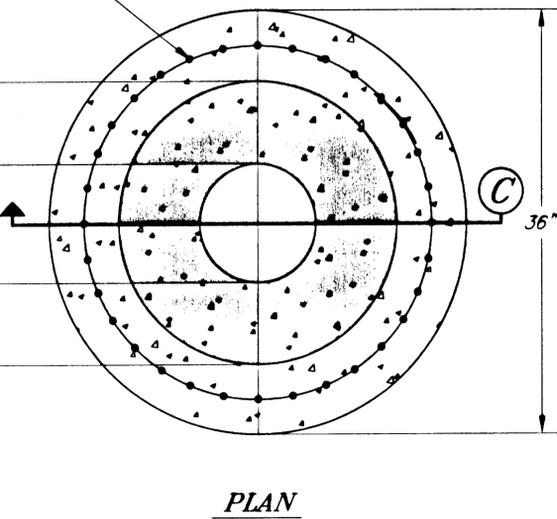
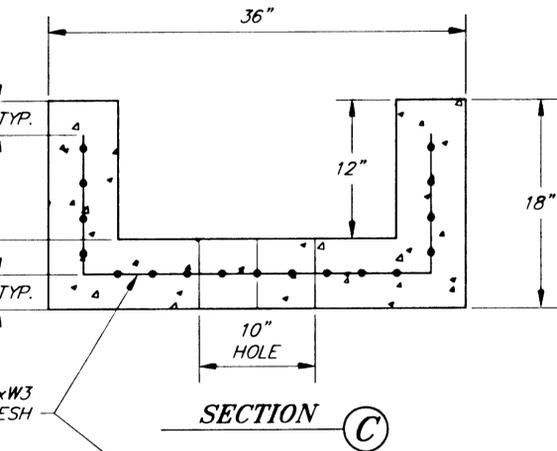
TO BE FORMED.

DRAIN INLETS & MANHOLES SHALL HAVE 18" SUMP.

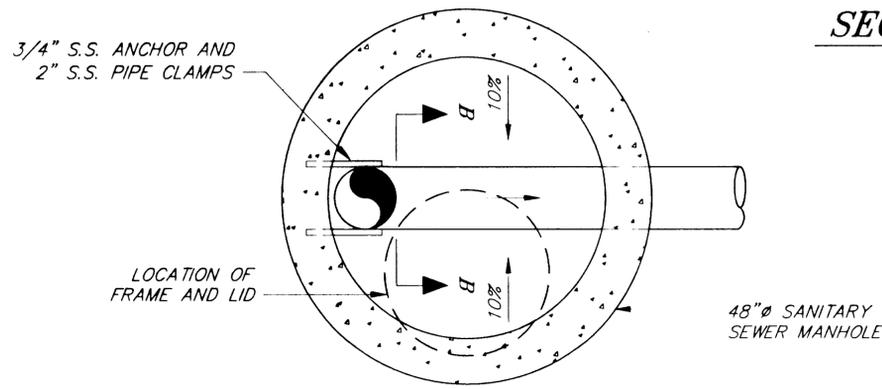
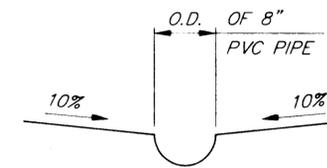
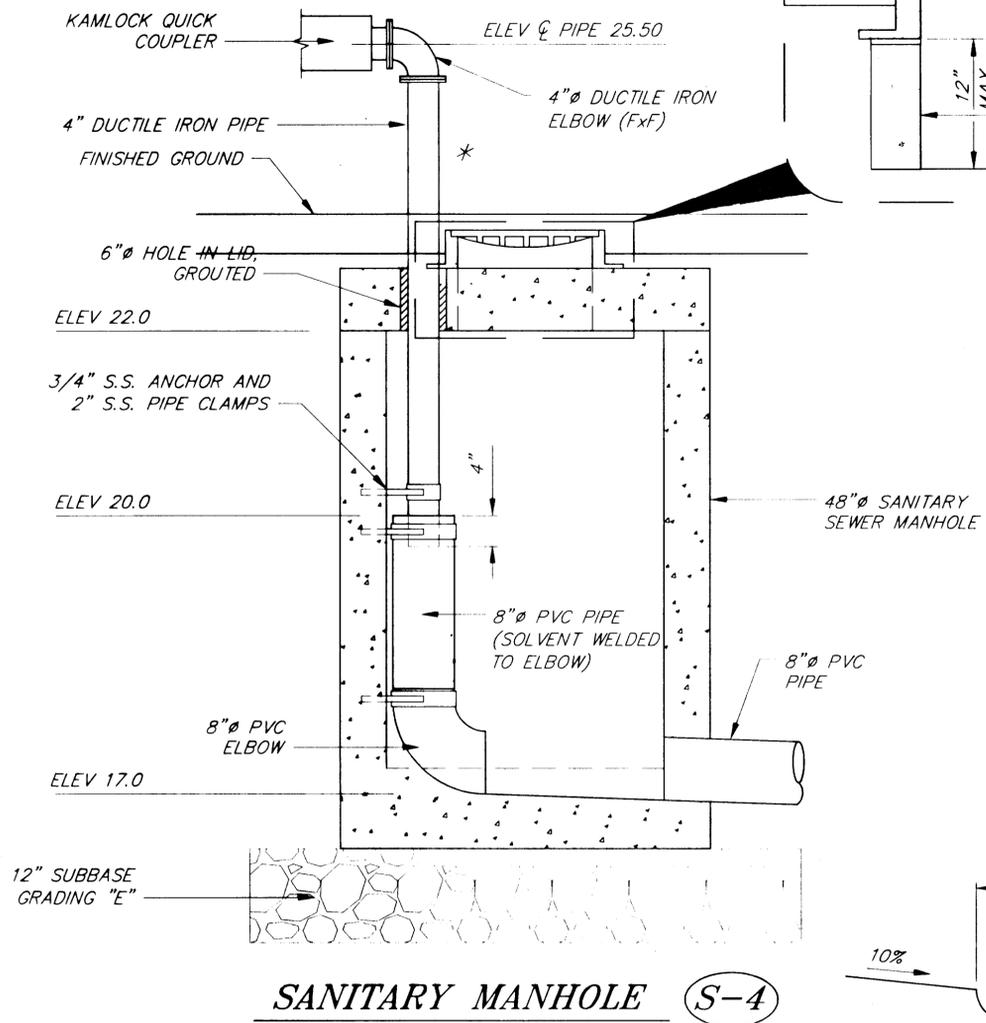
JOINT SHALL BE GROUTED IN THE CIRCULAR CEMENT BOX.

ALL SEWER MANHOLES SHALL HAVE CAST IN PLACE FLOW CHANNELS
AS SHOWN IN SECTION B-B.

MANHOLE SHALL BE INSULATED AND JACKETED FROM QUICK COUPLER TO TOP OF MANHOLE.



CIRCULAR CONCRETE BOX



SANITARY MANHOLE S-4

S.S. MANHOLE PLAN

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

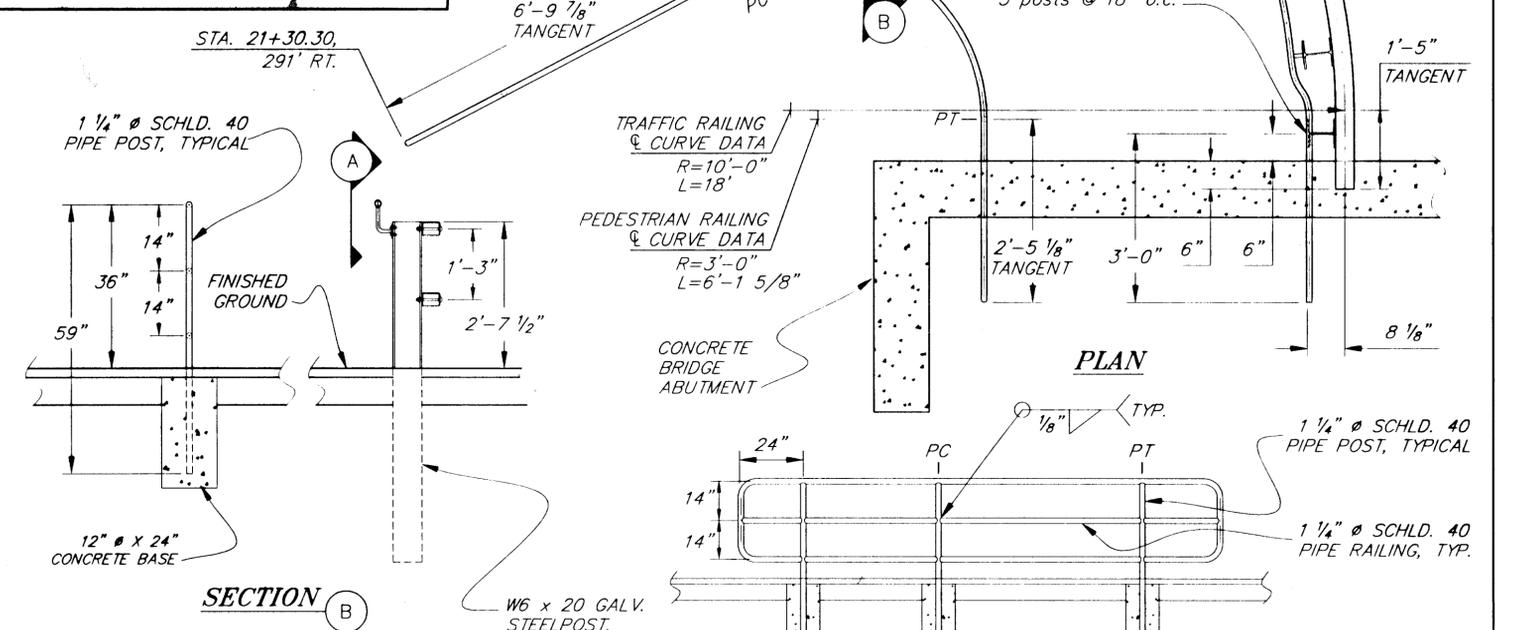
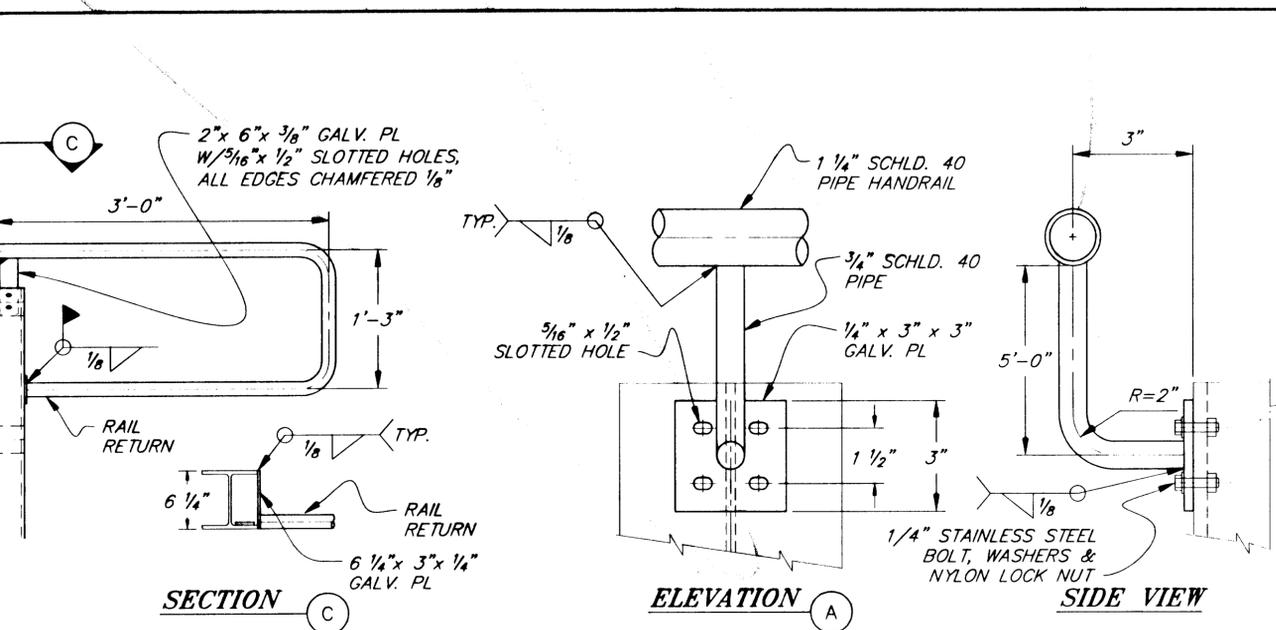
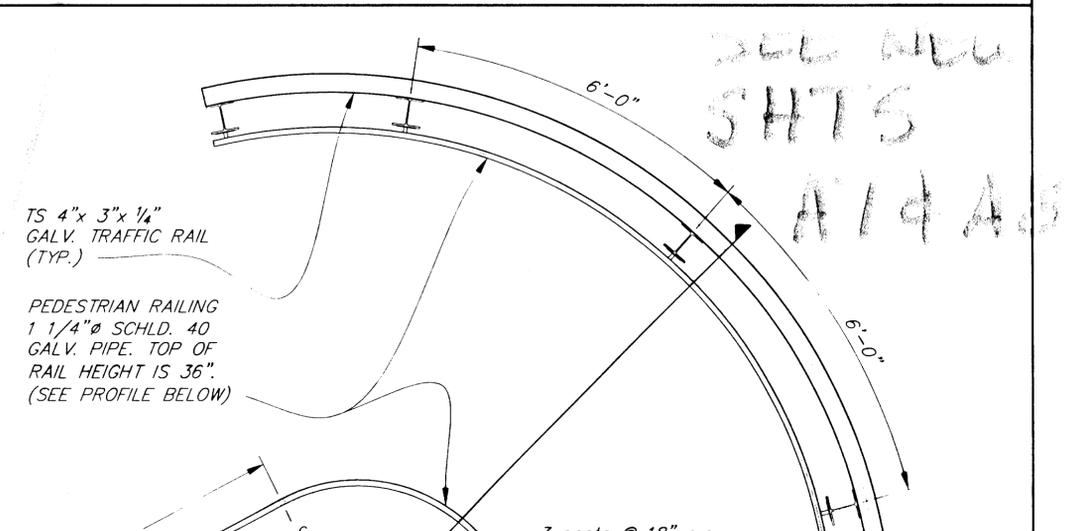
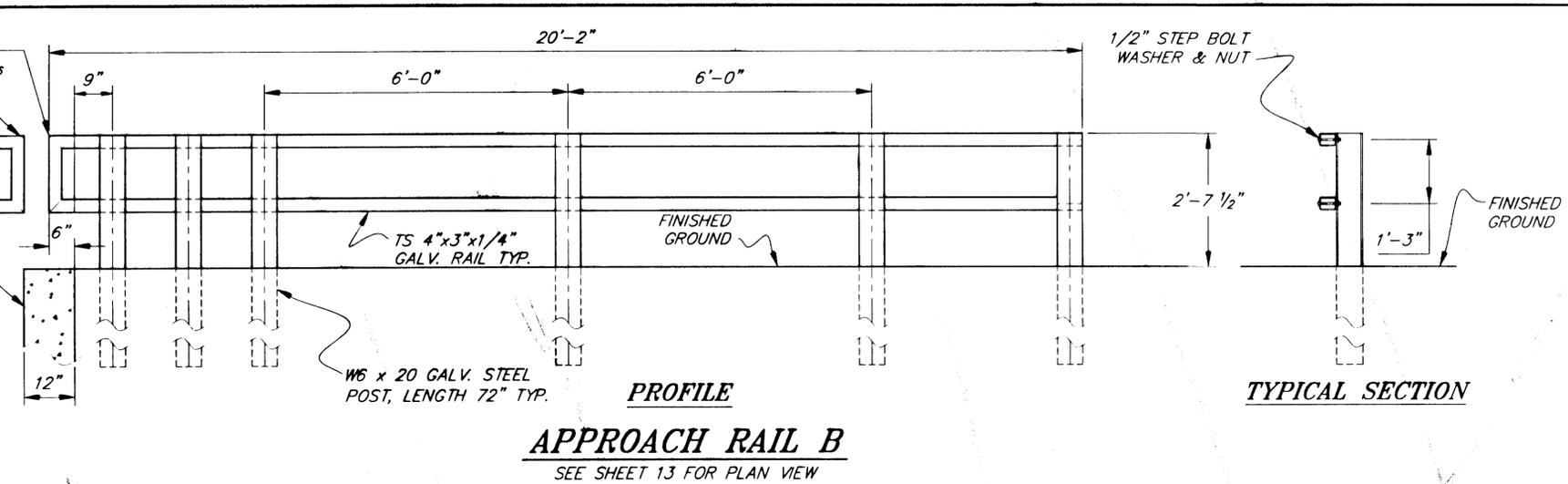
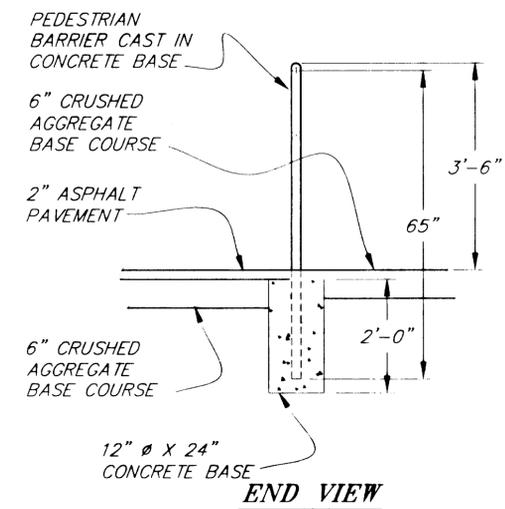
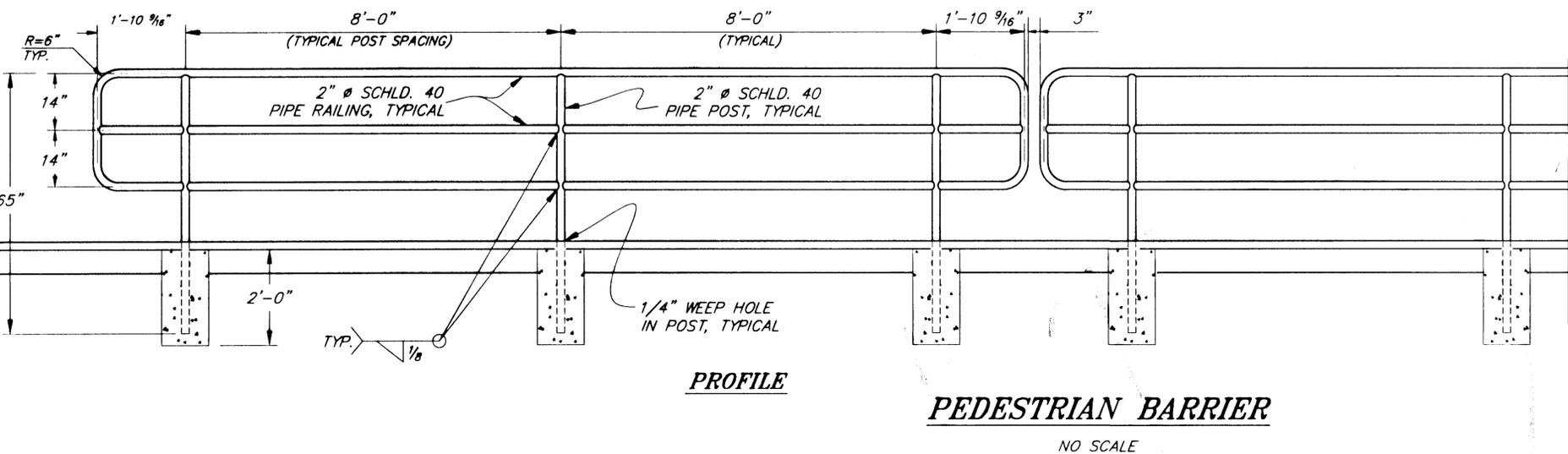
DESCRIPTION OF CHANGE:
RD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
MANHOLE DETAILS

DESIGNED BY: Blackburn	PROJECT NO. 67857
DRAWN BY: D.B./R.S./L.R.	DATE: November 2000
CHECKED BY: Miller	SHEET 19 OF 87





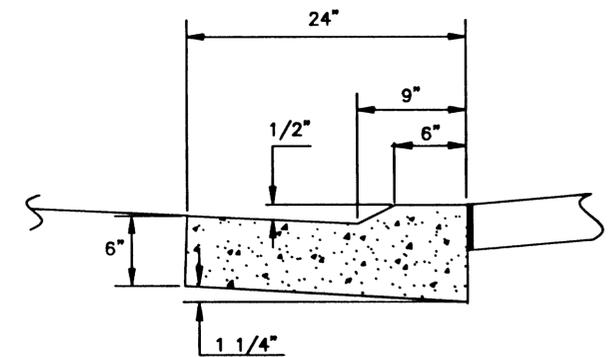
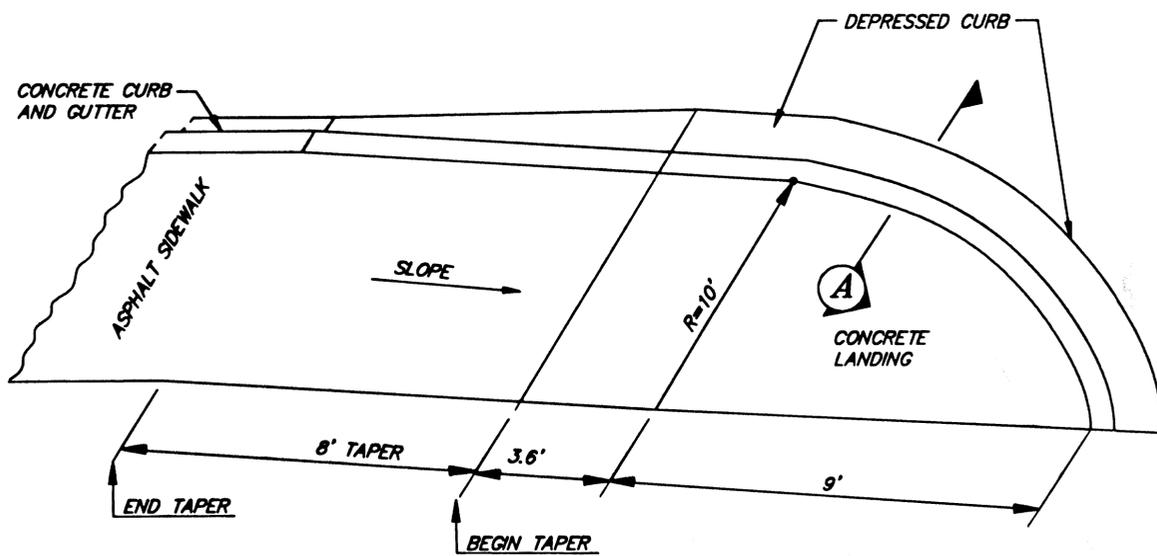
57\PlanSet\s20-PedBarrier.dwg

NO.	DESCRIPTION OF CHANGE

RD OF REVISIONS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I Project No. MGS - 0003(67) / 67857	ALASKA	DESIGNED BY: Blackburn	PROJECT NO. 67857
	BARRIER & RAILING DETAILS		DRAWN BY: D.B./R.S./L.R.	DATE: November 2000
			CHECKED BY: Miller	SHEET 20 OF 87

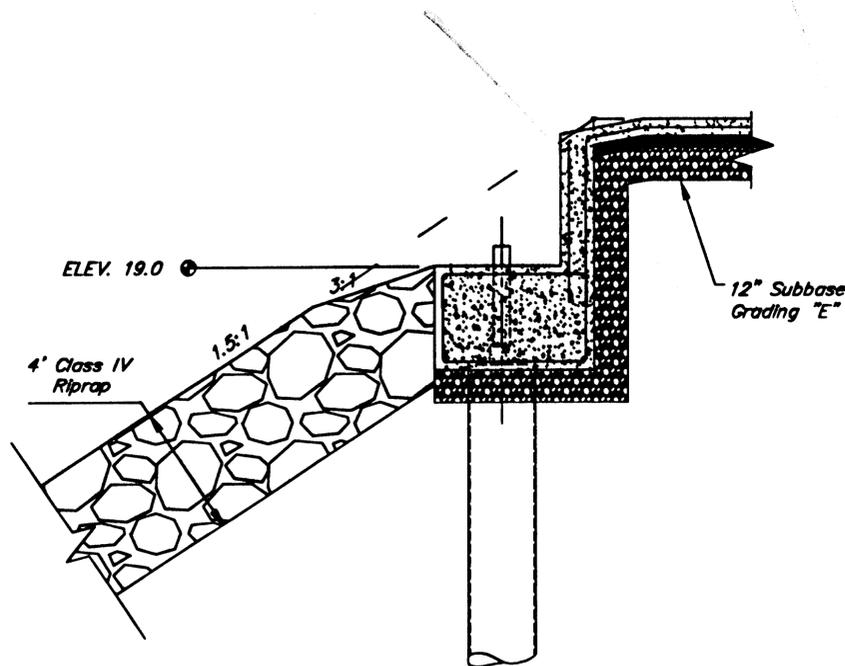


SECTION A
DEPRESSED CURB

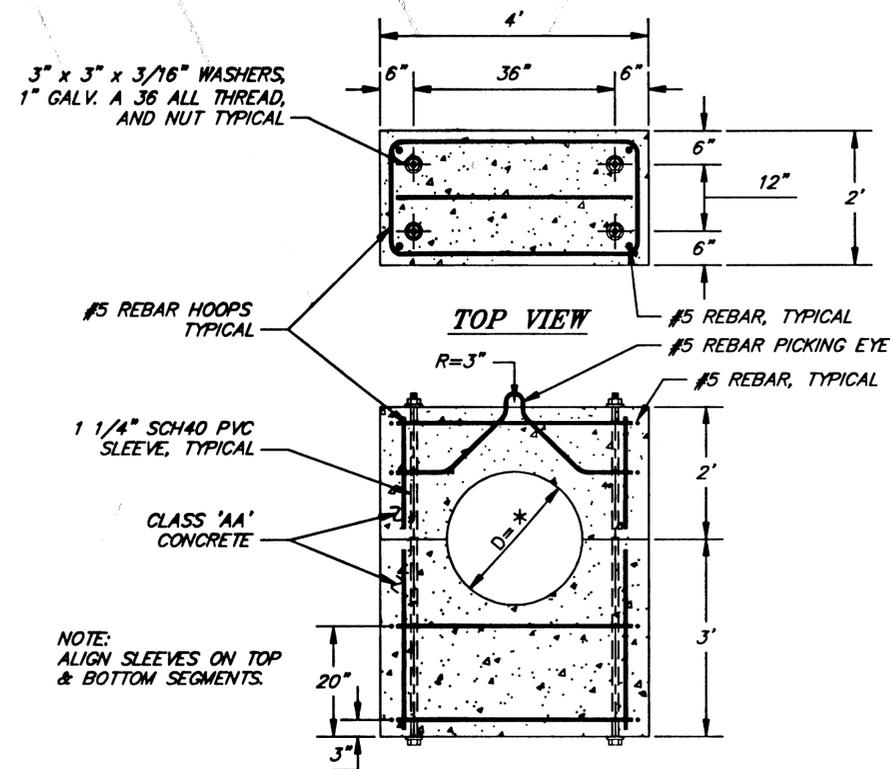
SEE NEW
SHT A9

GUTTER JOINTS SHALL BE EVERY 30 FEET.
LANDINGS SHALL BE DYED RED CONCRETE.

HANDICAP CURB RETURN DETAIL



RIPRAP SECTION AT ABUTMENT



SIDE VIEW

TOP VIEW

END VIEW

ANCHOR BLOCK DETAIL

* MANUFACTURER'S PIPE DIAMETER + 1/4"

3" x 3" x 3/16" WASHERS,
1" GALV. A 36 ALL THREAD,
AND NUT TYPICAL

#5 REBAR HOOPS
TYPICAL

#5 REBAR, TYPICAL
#5 REBAR PICKING EYE

1 1/4" SCH40 PVC
SLEEVE, TYPICAL

CLASS 'AA'
CONCRETE

#5 REBAR, TYPICAL

NOTE:
ALIGN SLEEVES ON TOP
& BOTTOM SEGMENTS.

26" x 452" x 1/8"
RUBBER SHEET AROUND PIPE

NOTE: DO NOT SCALE FROM THESE PLANS--USE DIMENSIONS

57\Planset\s21-MiscDet.dwg
DESCRIPTION OF CHANGE:
ORD OF REVISIONS

STATE OF ALASKA
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AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 87857

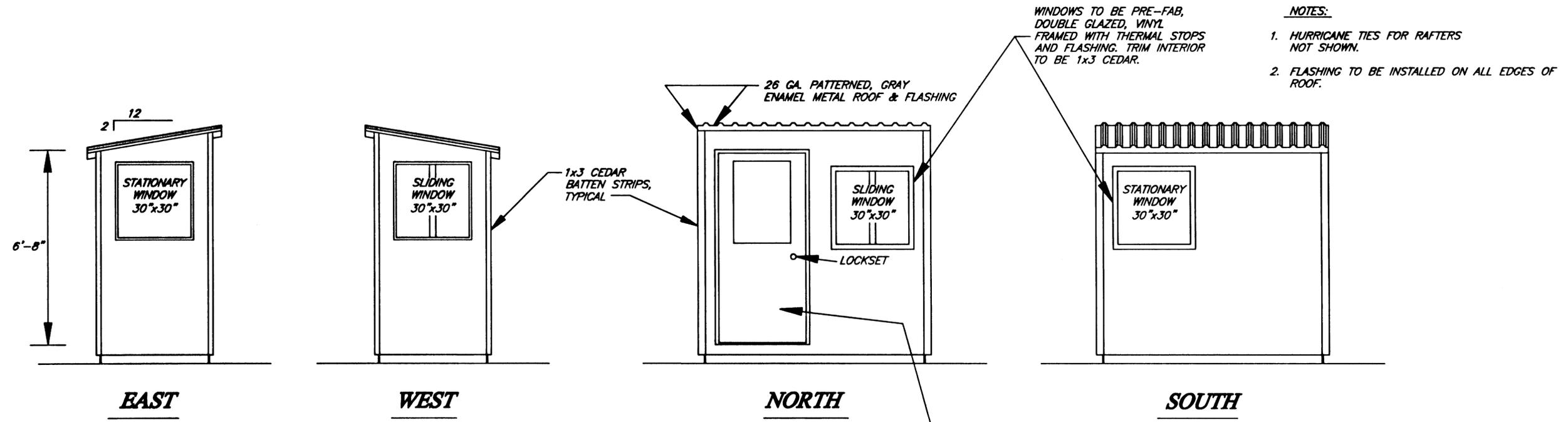
ALASKA

MISCELLANEOUS DETAILS

DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S.
CHECKED BY: Miller

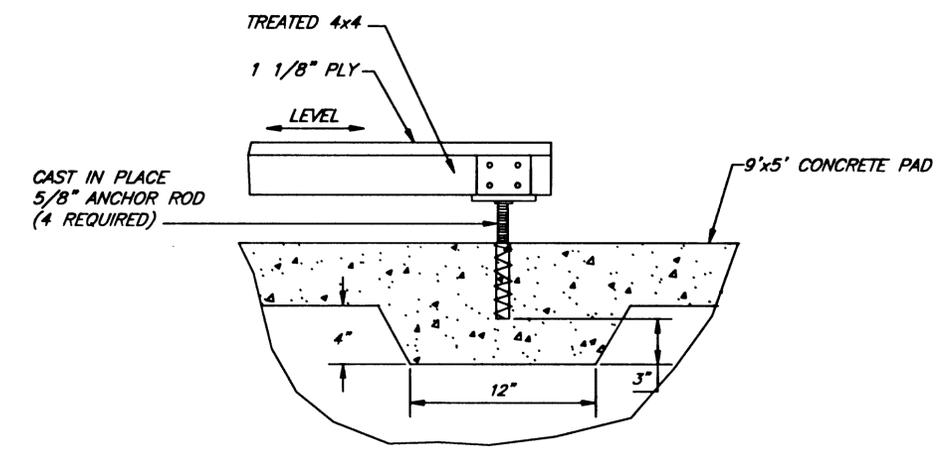
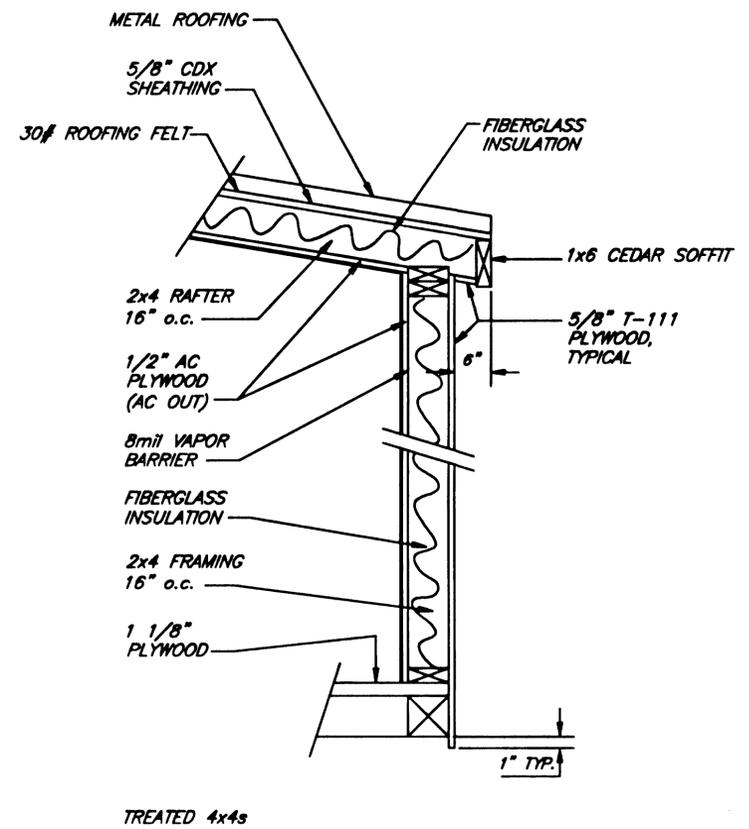
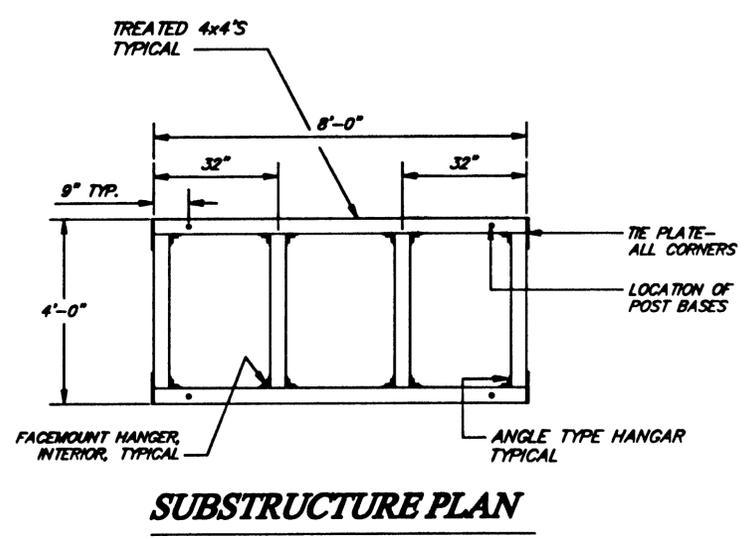
PROJECT NO. 87857
DATE: November 2000
SHEET 21 OF 87





- NOTES:**
- HURRICANE TIES FOR RAFTERS NOT SHOWN.
 - FLASHING TO BE INSTALLED ON ALL EDGES OF ROOF.

GRAY ENAMEL METAL CLAD DOOR
 3'-0" x 6'-8" PREHUNG 1 1/2 HINGE
 PAIRS. DOOR TO SWING IN.



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ORD OF REVISIONS

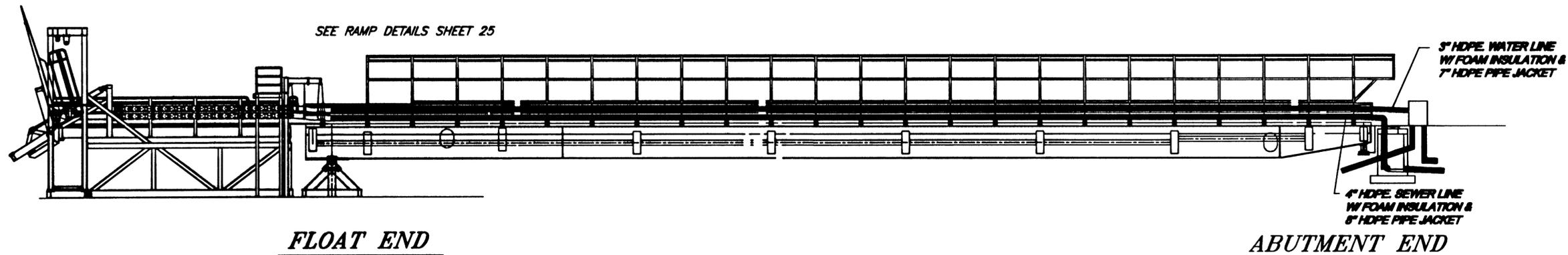
STATE OF ALASKA
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 AND PUBLIC FACILITIES
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KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
 Project No. MGS - 0003(67) / 67857
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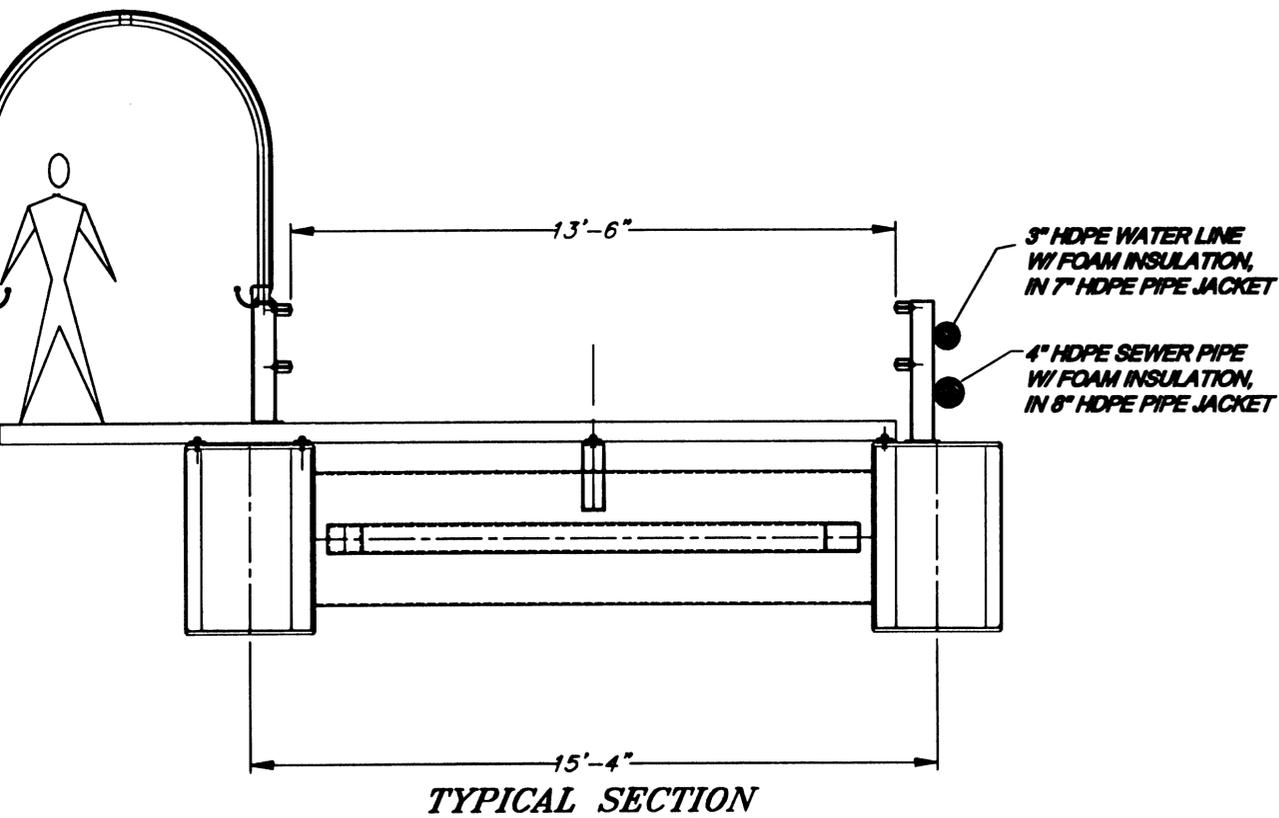
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DESIGNED BY: Blackburn	PROJECT NO. 67857
DRAWN BY: D.B./R.S./B.S.	DATE: November 2000
CHECKED BY: Miller	SHEET 22 OF 67

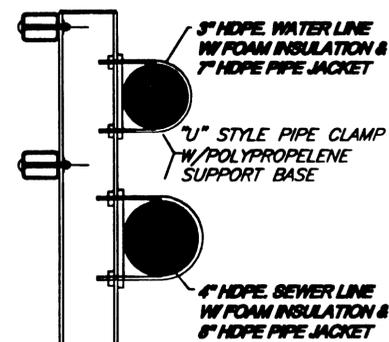




SECTIONAL ELEVATION

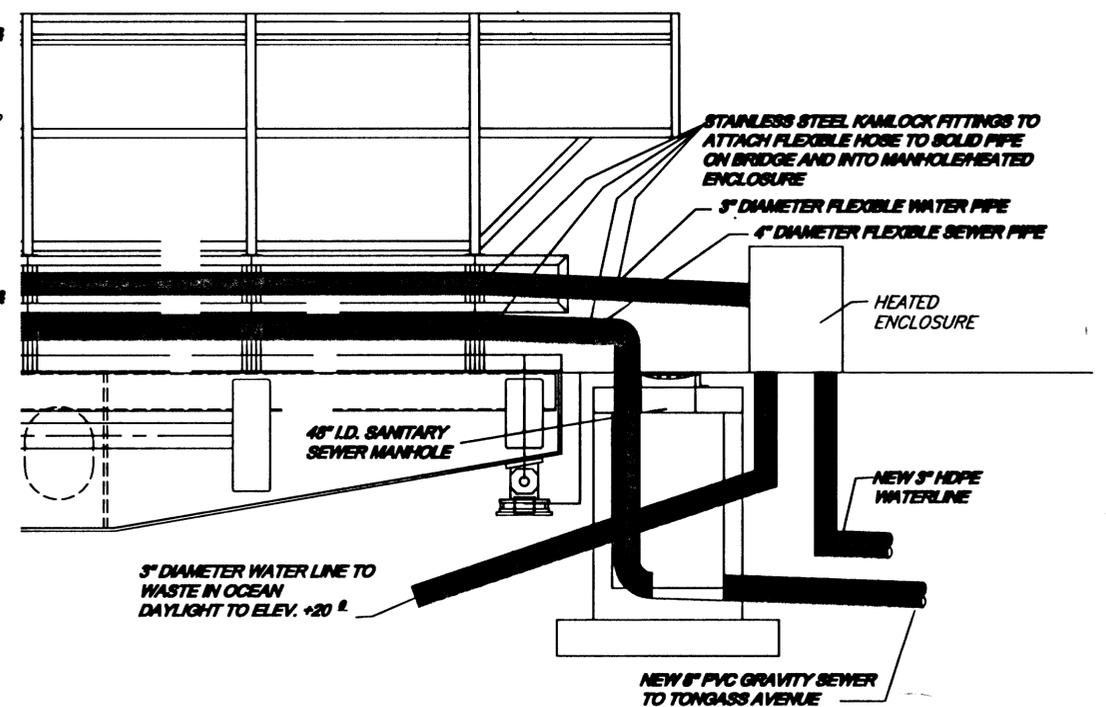


TYPICAL SECTION



PIPE SUPPORT DETAIL

NOTE:
SEE ELECTRICAL FOR
HEAT TRACE REQ. MTS



ABUTMENT END DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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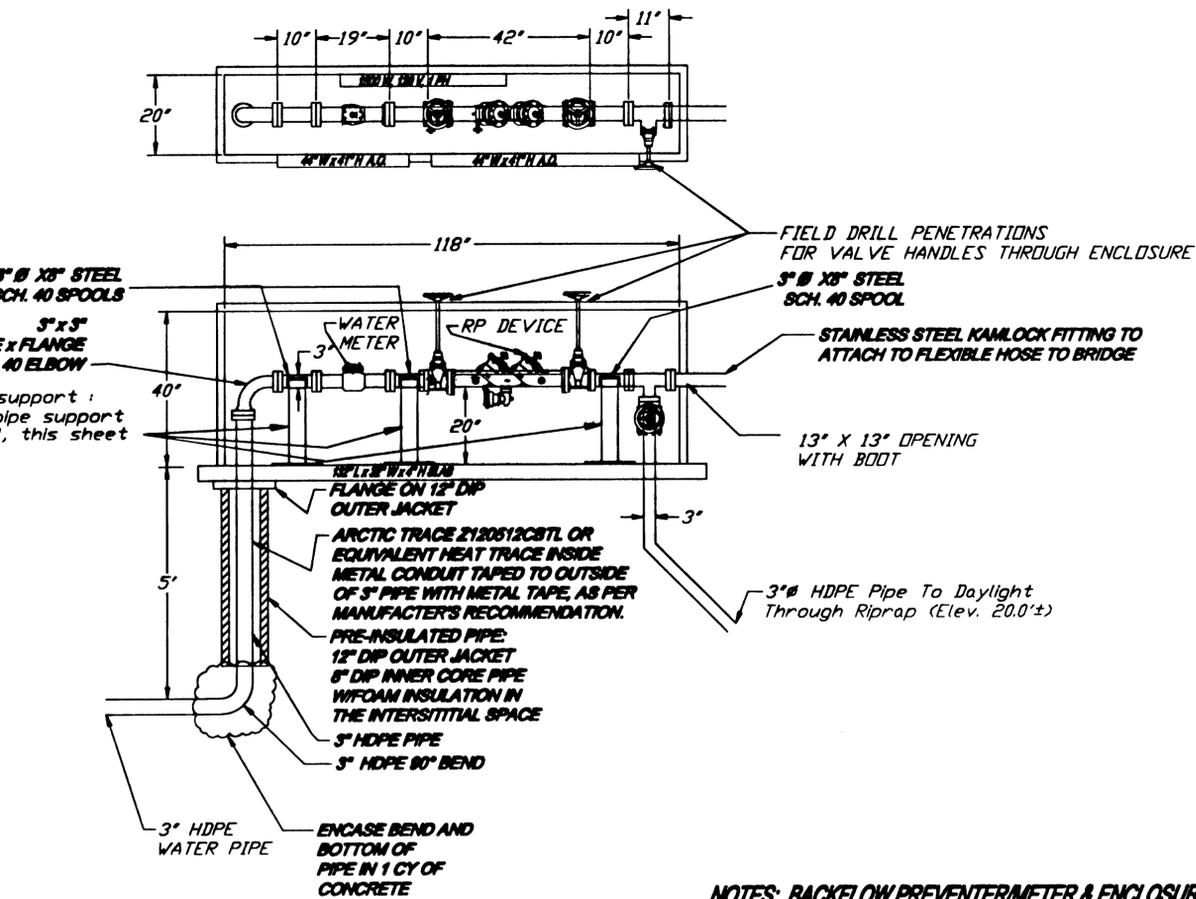
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
MGS-000(87) / 87857
WATER & SEWER DETAILS, BRIDGE

DESIGNED BY: Joiner
DRAWN BY: Joiner
CHECKED BY: MILLER

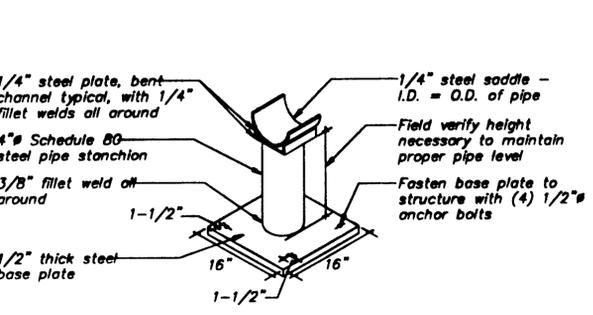
PROJECT NO. 87857
DATE: November 2000
SHEET 23 OF 87



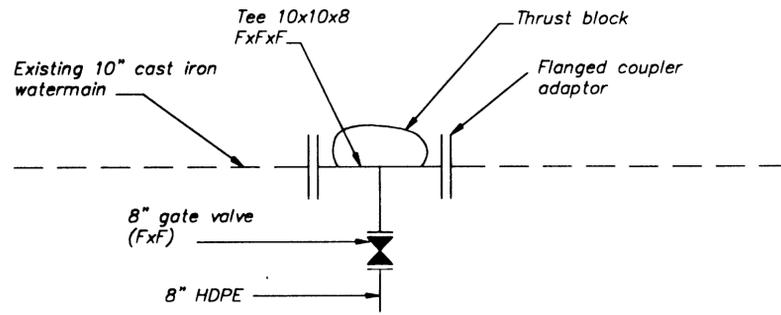


NOTES: BACKFLOW PREVENTER METER & ENCLOSURE

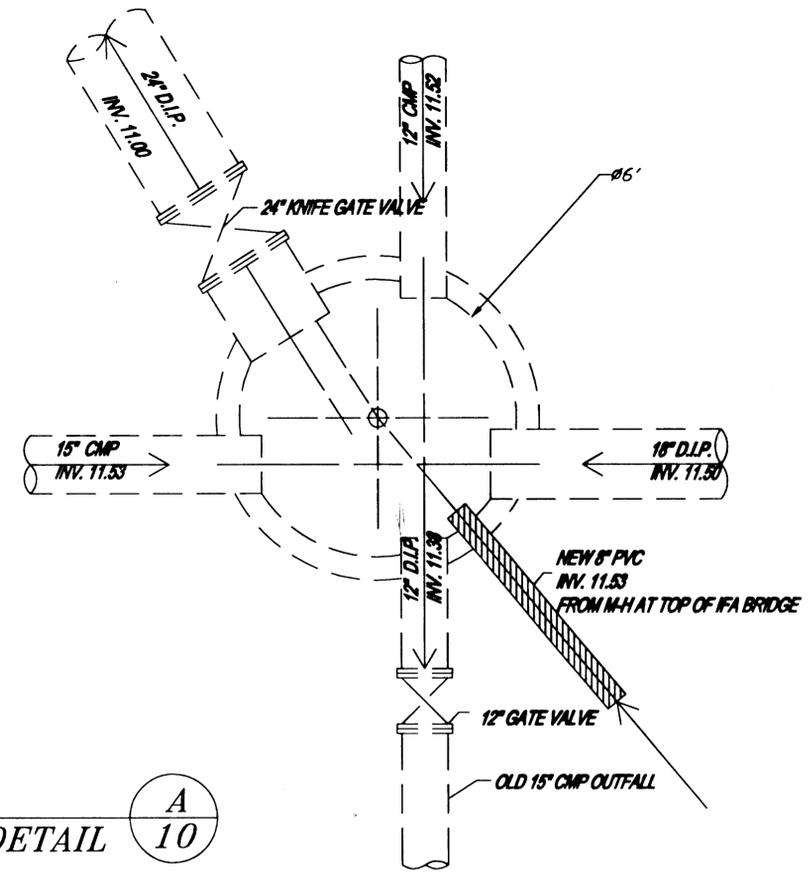
- 1) Backflow preventer shall be 3 inch diameter and shall be Febco 860-NRS, Zurn/Wilkins Model 975, or equivalent.
- 2) Water meter shall be Sensus Technologies, Inc. 3 inch, Model W-350 DRS Turbo-Meter with the TouchRead PILLid and be compatible with the Ketchikan Public Utilities' system.
- 3) The RP device/meter/blow-off enclosure shall be a Hot Box modified #MH3N enclosure - 2 section aluminum with a 1500 W, 120 V, 1 Ph heater, or equivalent.
- 4) All fittings flange to flange inside enclosure, except as noted.



PIPE SUPPORT DETAIL



**WATER CONNECTION
TONGASS AVENUE**



**B2-1
MANHOLE DETAIL**

**A
10**

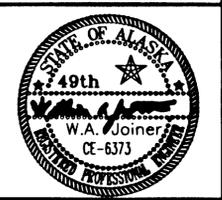
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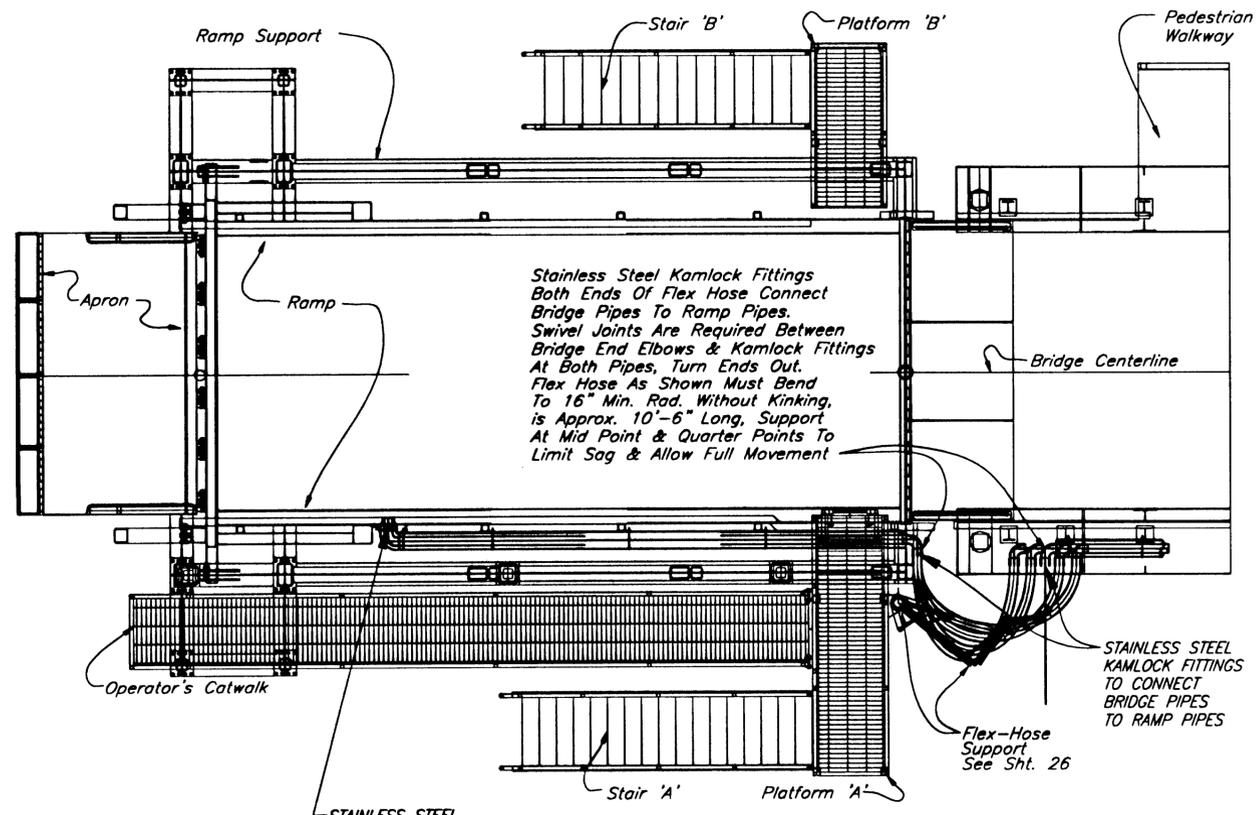
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AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

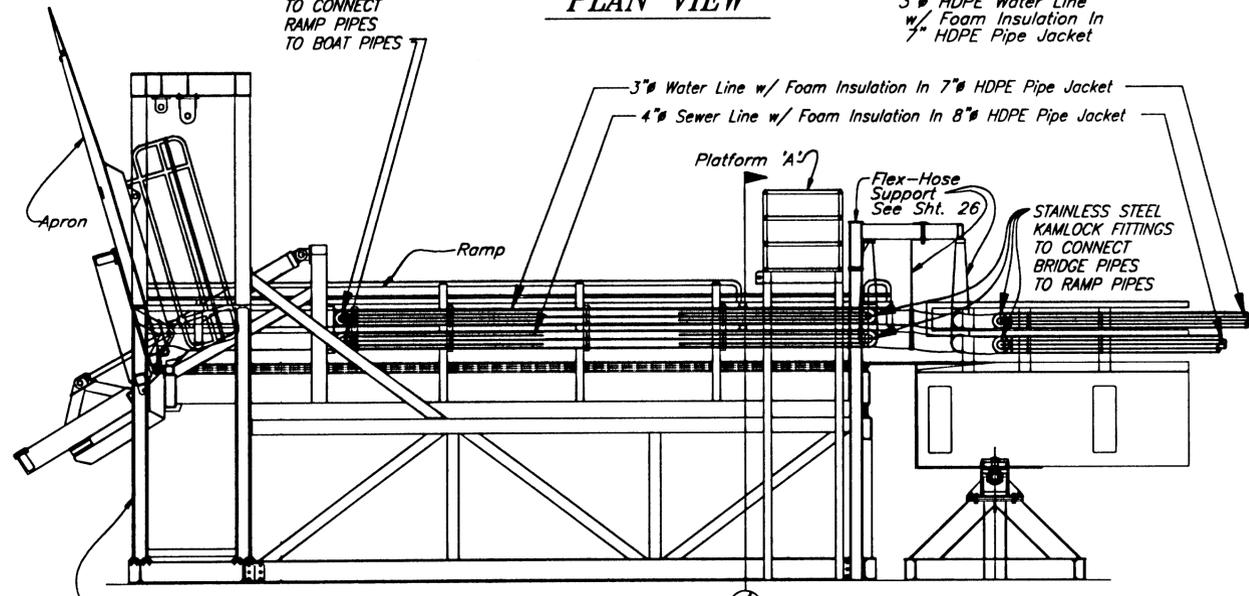
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
MGS-000(67) / 67857
ALASKA
WATER & SEWER, MISC. DETAILS

DESIGNED BY: Joiner	PROJECT NO. 67857
DRAWN BY: Joiner	DATE: November 2000
CHECKED BY: MILLER	SHEET 24 OF 87



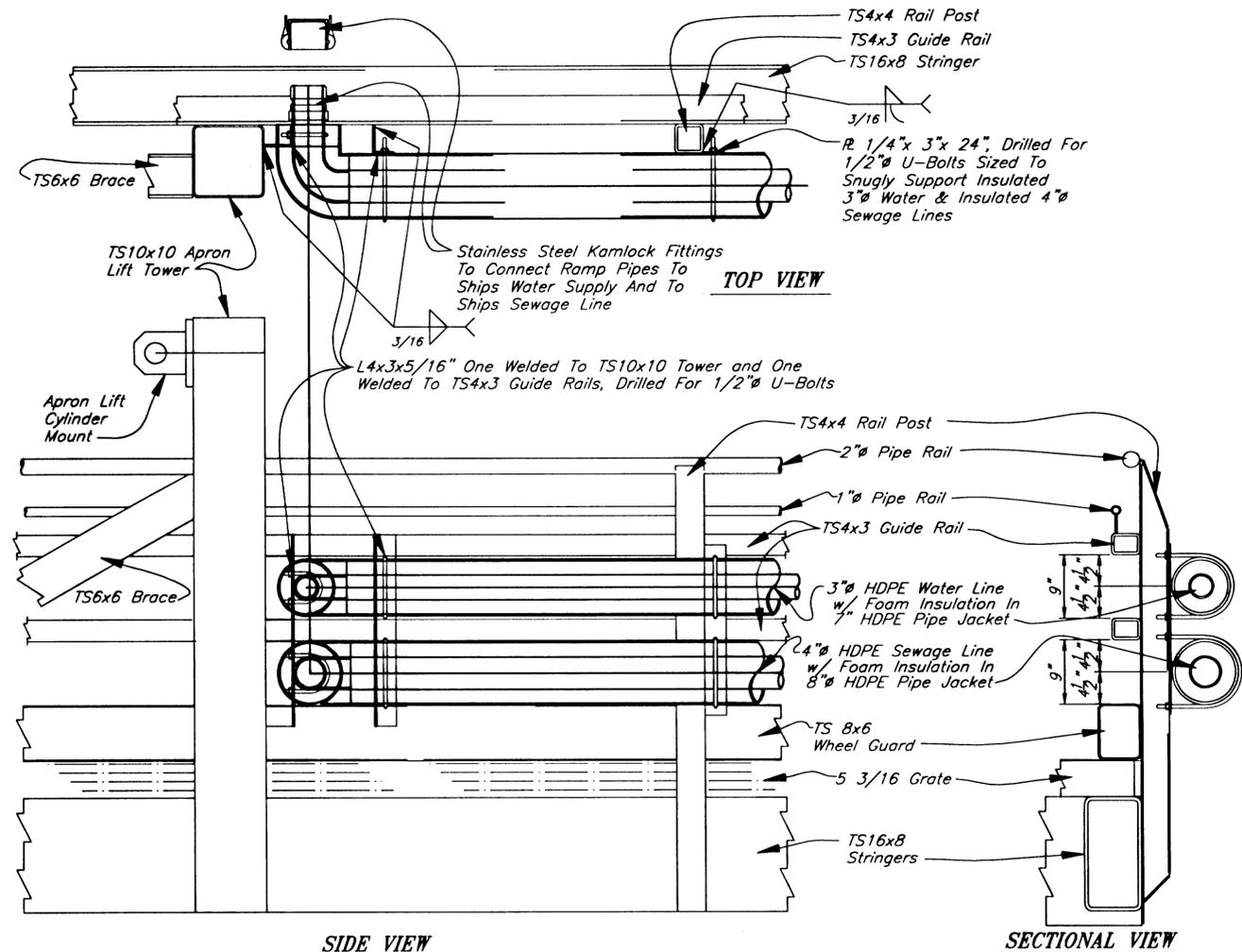


PLAN VIEW

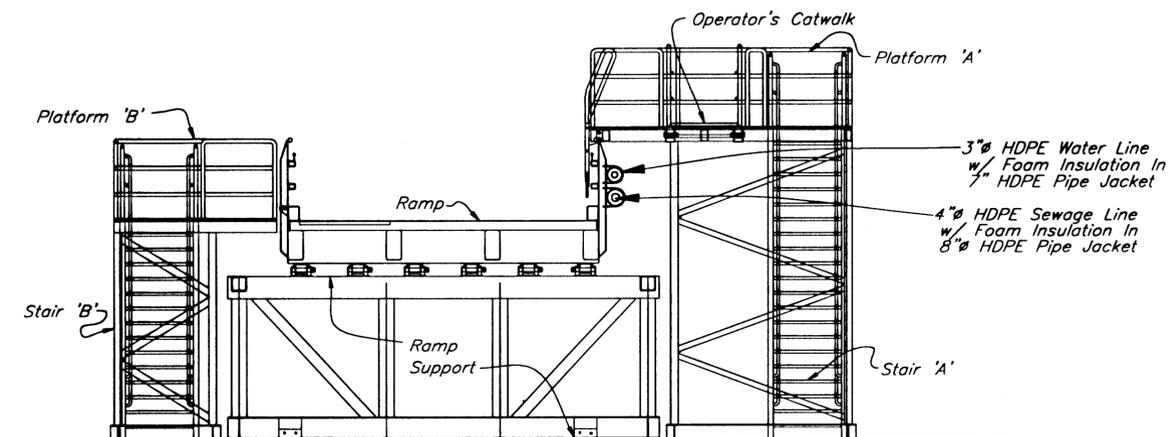


SOUTH SIDE ELEVATION

INSULATED 3"Ø WATER LINE AND INSULATED 4"Ø SEWAGE LINE LOCATIONS



MOUNTING DETAILS, 3"Ø WATER & 4"Ø SEWAGE LINES



SECTION "A"

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

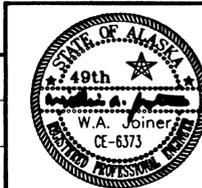
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PLOT:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

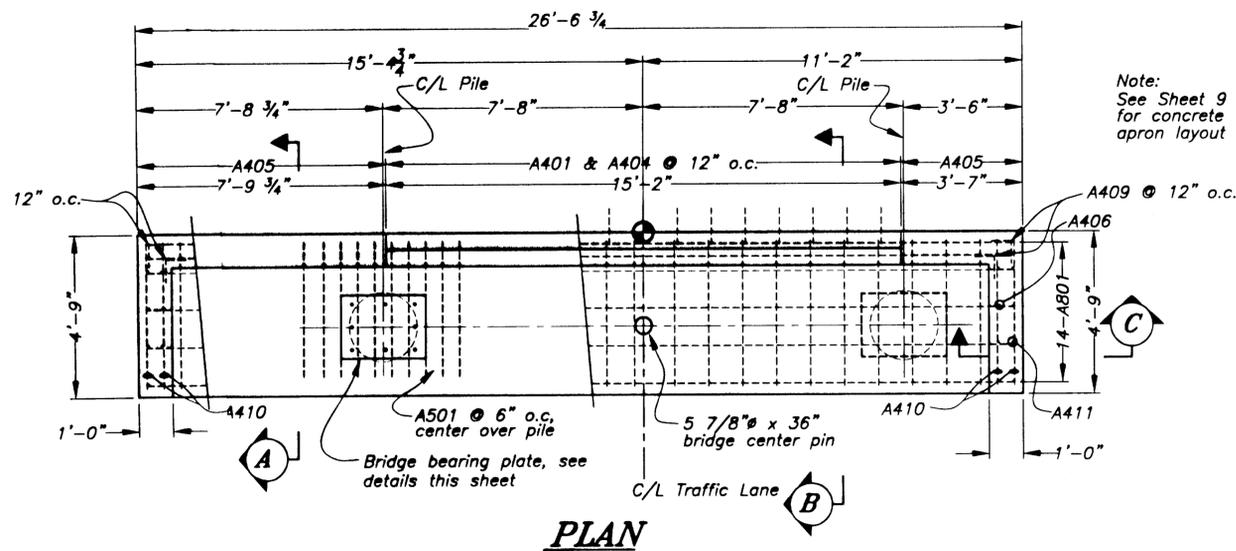
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
MGS-000(67) / 67857

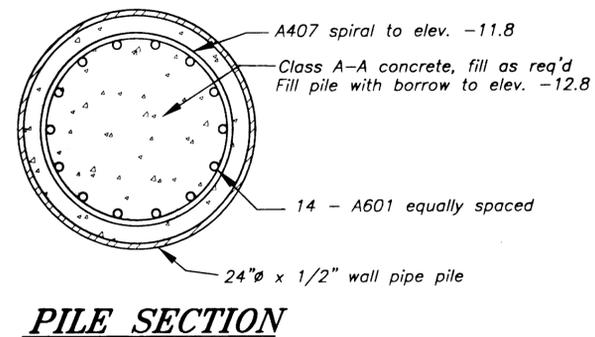
WATER & SEWER DETAILS, RAMP

DESIGNED BY:	Joiner	PROJECT NO.	67857
DRAWN BY:	Joiner	DATE:	November 2000
CHECKED BY:	MILLER	SHEET	25 OF 87

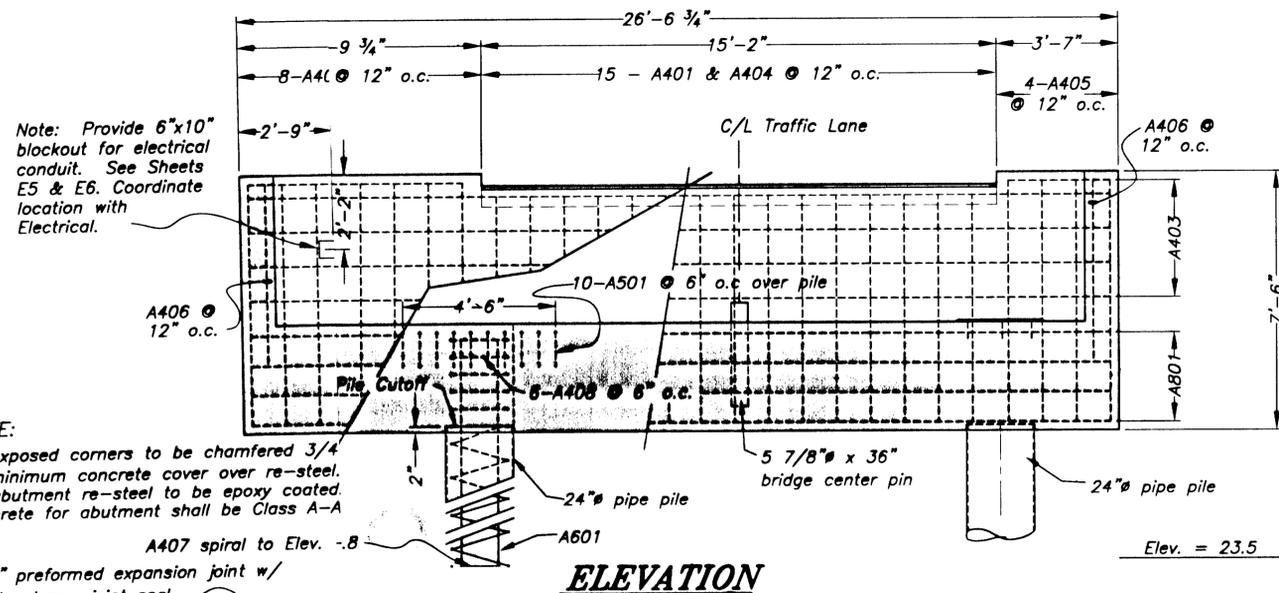




Note: See Sheet 9 for concrete apron layout

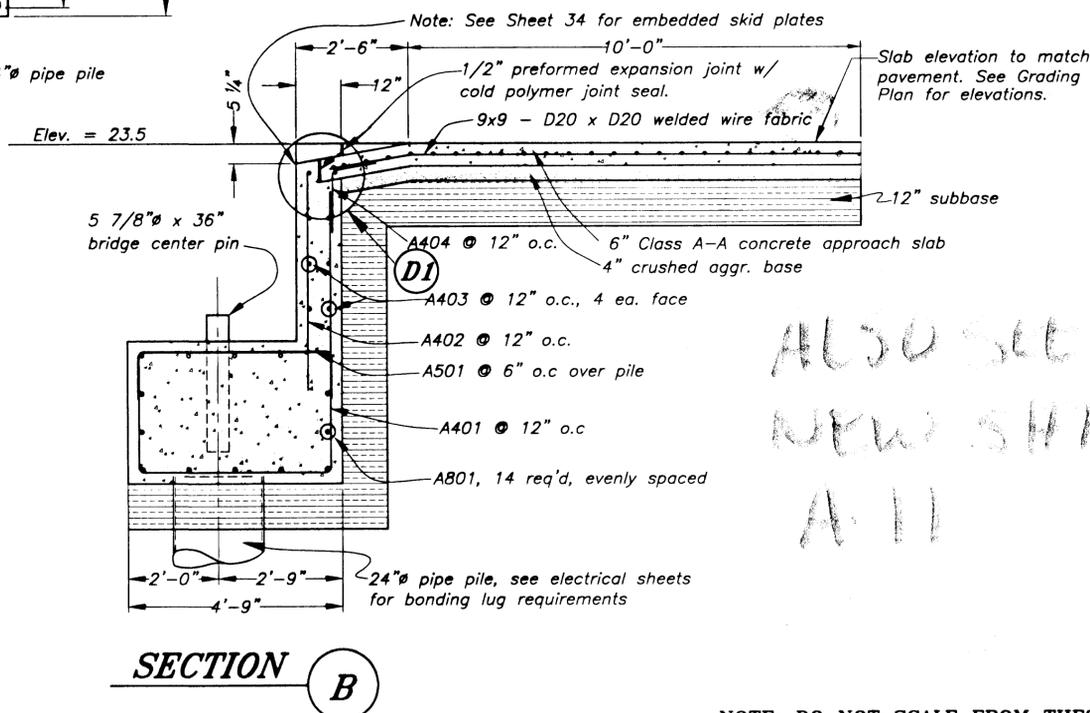
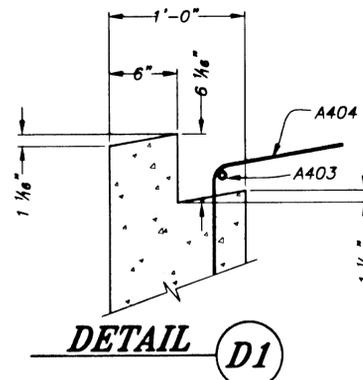
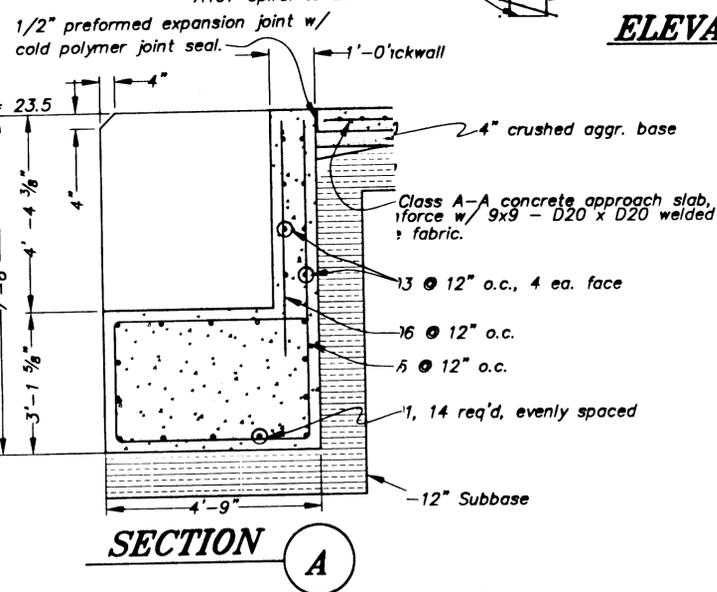
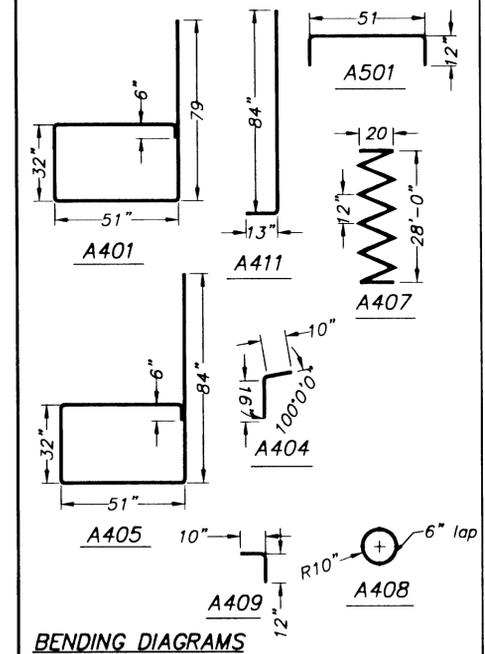
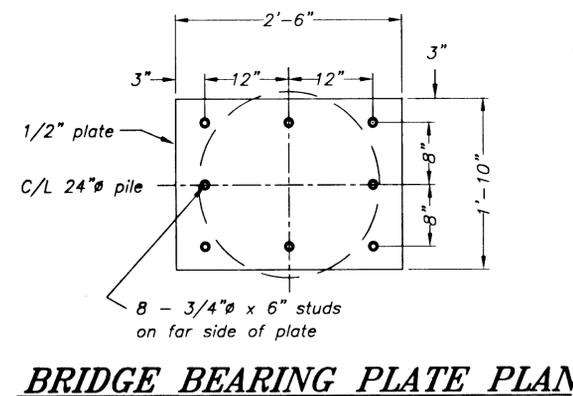


ABUTMENT REINFORCING STEEL				
MARK	SIZE	NO.	LENGTH	TYPE
A401	4	15	18'-3"	BENT
A402	4	15	4'-9"	
A403	4	8	26'-0"	
A404	4	15	2'-1"	BENT
A405	4	12	18'-8"	BENT
A406	4	18	5'-2"	
A407	4	2	149'-3"	SPIRAL
A408	4	12	5'-3"	BENT
A409	4	16	1'-10"	BENT
A410	4	16	4'-3"	
A411	4	8	8'-1"	BENT
A501	5	20	6'-3"	BENT
A601	6	28	30'-6"	
A801	8	14	26'-0"	

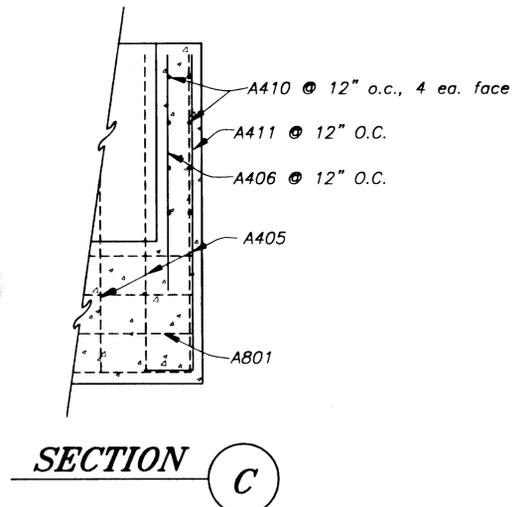


NOTE: Provide 6"x10" blockout for electrical conduit. See Sheets E5 & E6. Coordinate location with Electrical.

NOTE: All exposed corners to be chamfered 3/4" 3" minimum concrete cover over re-steel. All abutment re-steel to be epoxy coated. Concrete for abutment shall be Class A-A.



ALSO SEE NEW SHEET A-11



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

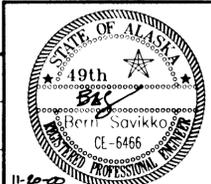
RECORD OF REVISIONS	
DATE	DESCRIPTION OF CHANGE

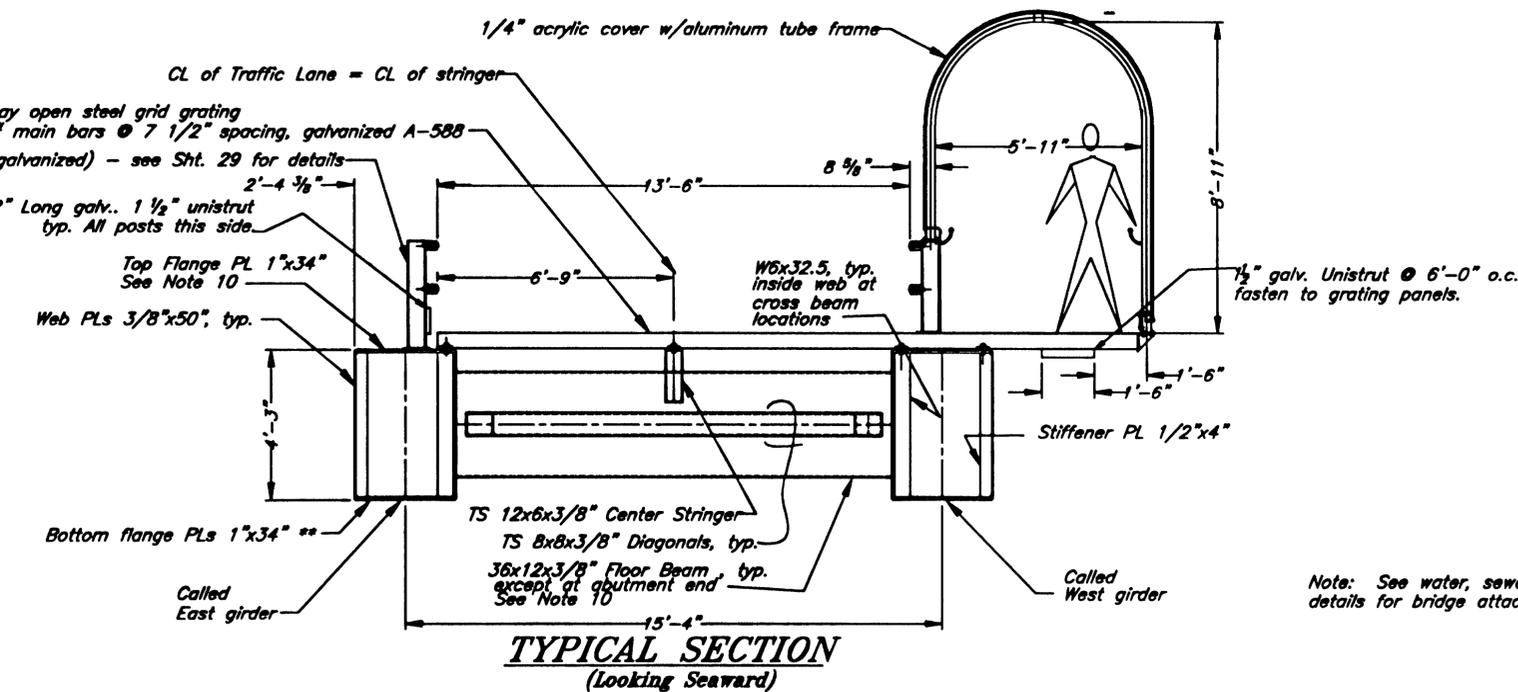
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
BRIDGE ABUTMENT DETAILS

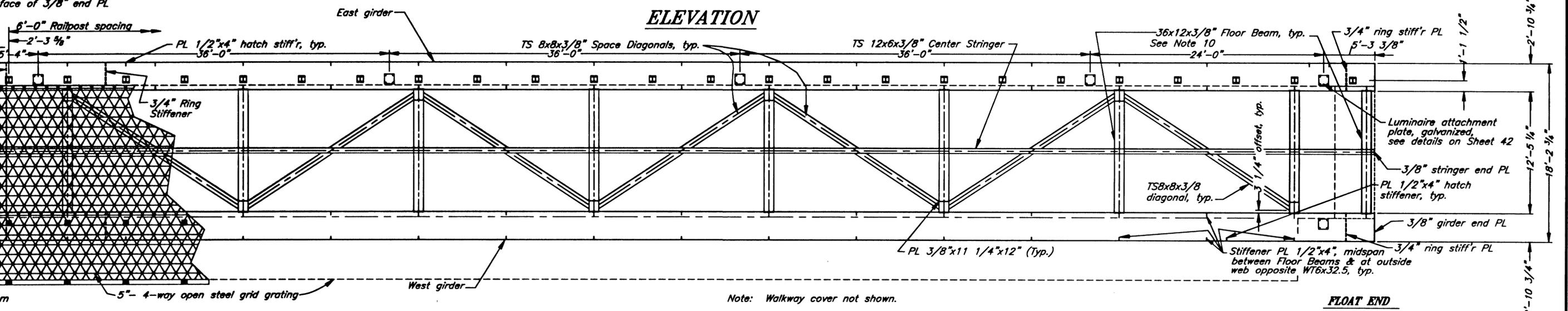
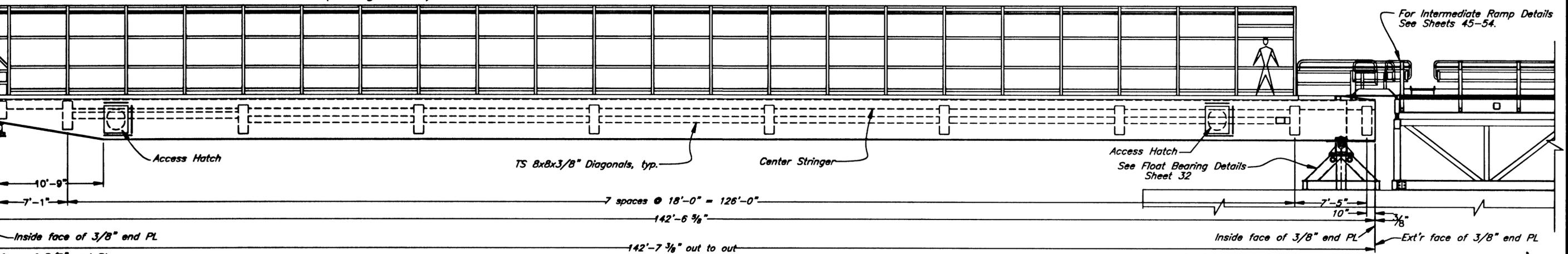
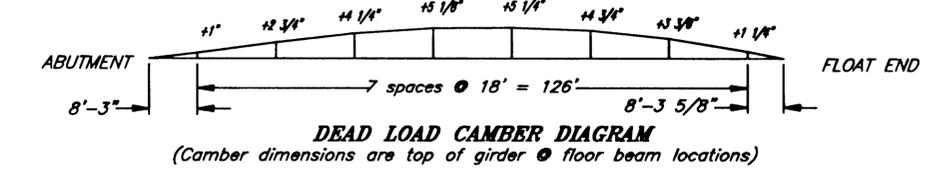
DESIGNED BY: Savikko
DRAWN BY: Fuman
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 27 OF 87





- NOTES**
- Design live load = 85 psf pedestrian live load and HS20 vehicle load.
 - All shapes and plates shall conform to ASTM A709 Grade 50 (unless specified otherwise) and shall be painted if welded to the bridge and galvanized if bolted to the bridge unless otherwise noted.
 - Ship assembled.
 - No girder splices may be located in middle third of the bridge.
 - Camber to compensate for dead load deflection (See camber diagram below).
 - Approx. weight = 213,000 lbs.
 - Paint entire structure after assembly and prior to installation of grating and walkway cover.
 - All welds joining tubular members and cover or end plates to be seal weld.
 - The following members are considered main members subject to tensile stress and require Charpy Impact Testing. See Section 302 of the specifications.
 - Lower girder flanges
 - Floor beams
 - The main girders are also considered fracture critical and the lower flange plates require a fracture control plan. See Section 302 of the specifications.



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

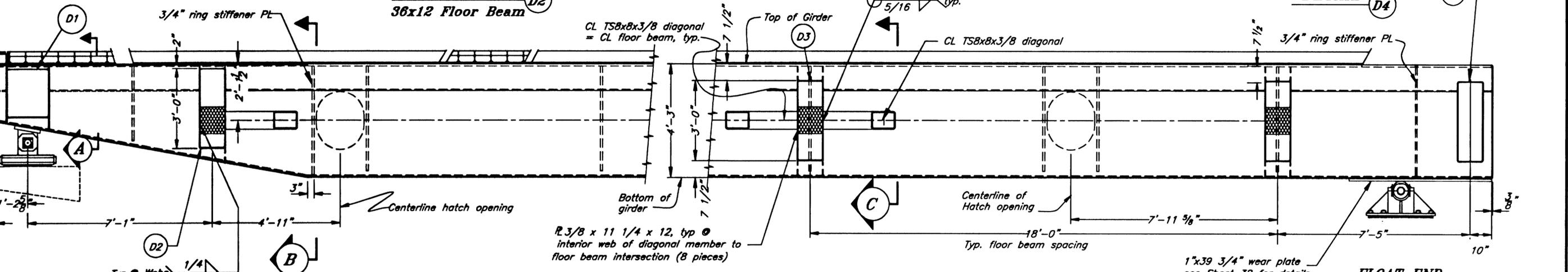
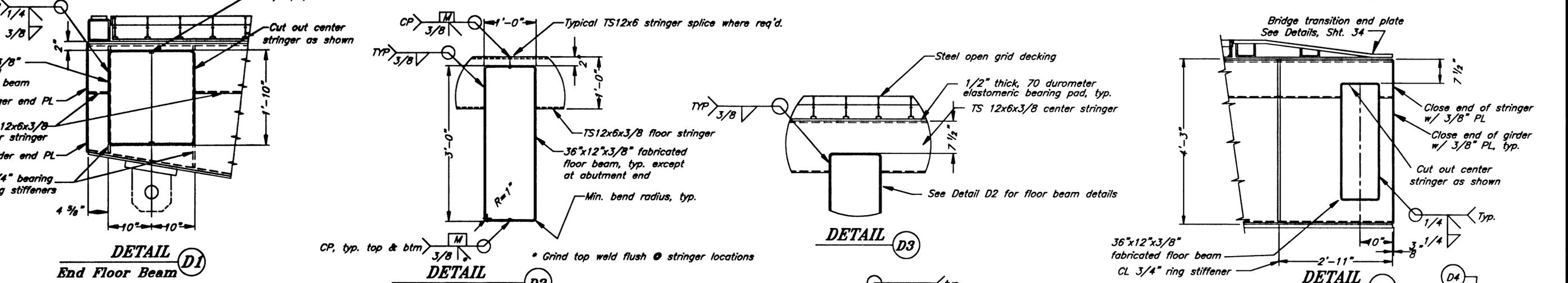
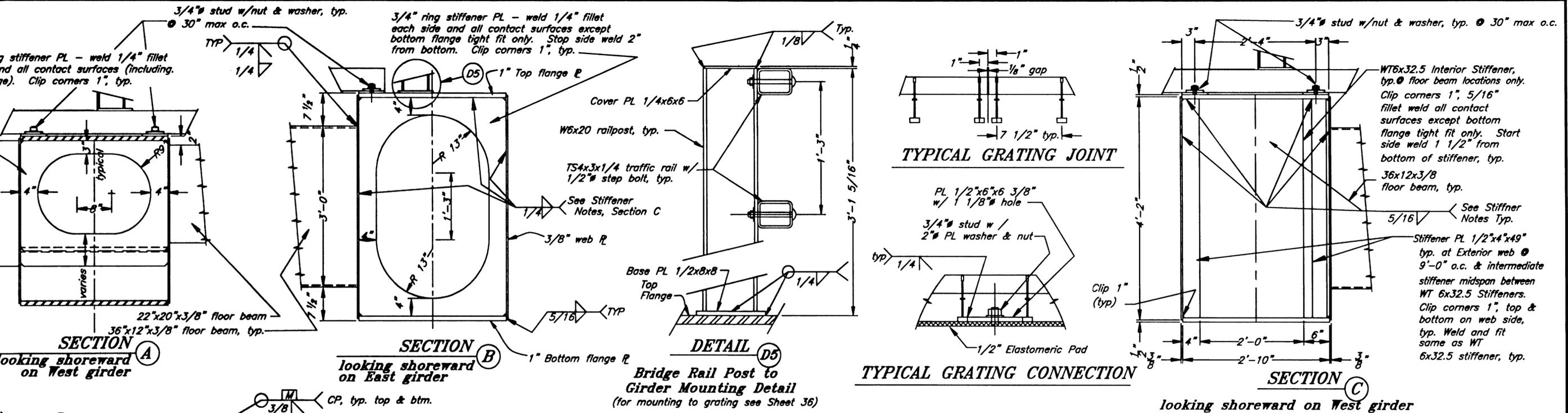
57\Planset\s28-bridge.dwg
DESCRIPTION OF CHANGE:
RD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 87857
TRANSFER BRIDGE

DESIGNED BY: Savikko	PROJECT NO. 87857
DRAWN BY: Fuman	DATE: November 2000
CHECKED BY: Miller	SHEET 28 OF 87





GIRDER/FLOOR BEAM CONNECTION DETAILS
(East Girder Shown - Elevation Similar Both Sides)

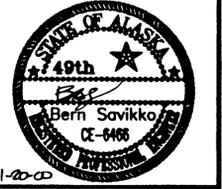
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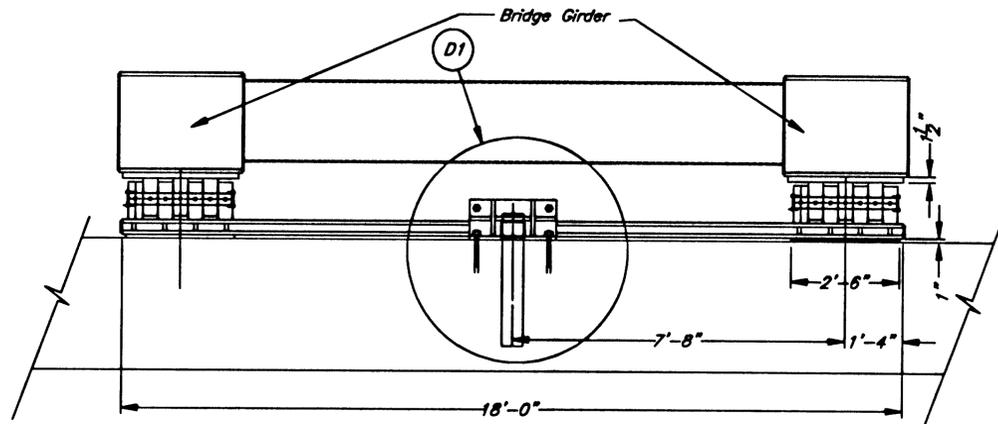
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DESCRIPTION OF CHANGE:
REVISIONS:

STATE OF ALASKA
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AND PUBLIC FACILITIES
SOUTHEAST REGION

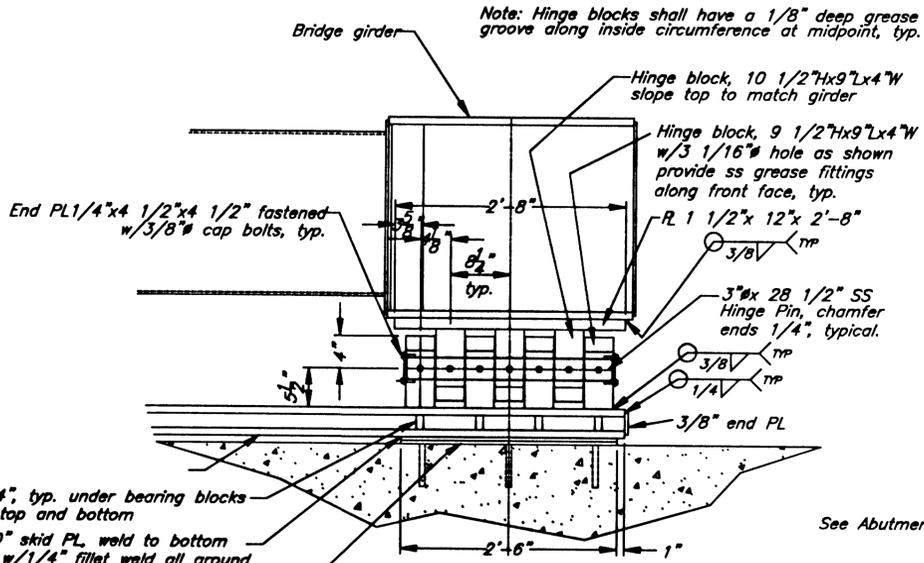
KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67857
ALASKA
BRIDGE GIRDER DETAILS

DESIGNED BY: Savikko	PROJECT NO. 67857
DRAWN BY: Fuman	DATE: November 2000
CHECKED BY: Miller	SHEET 29 OF 67

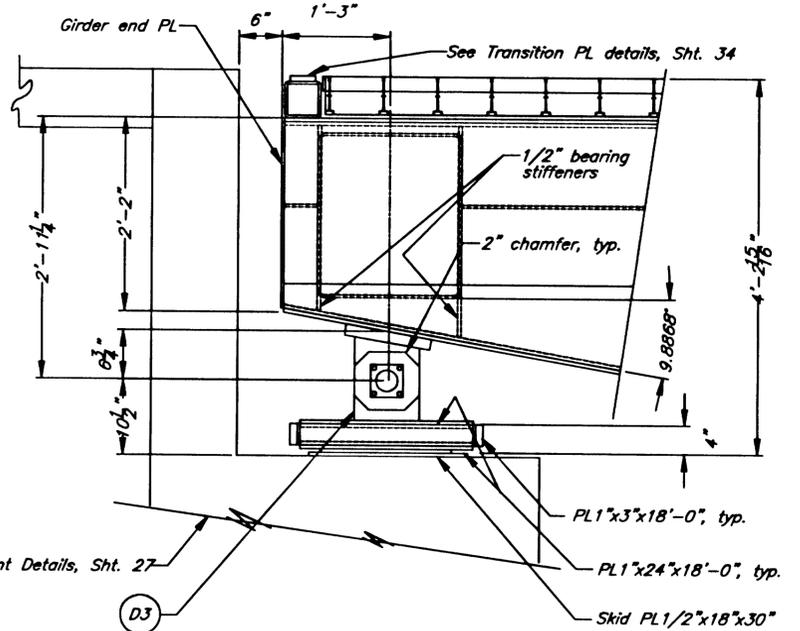




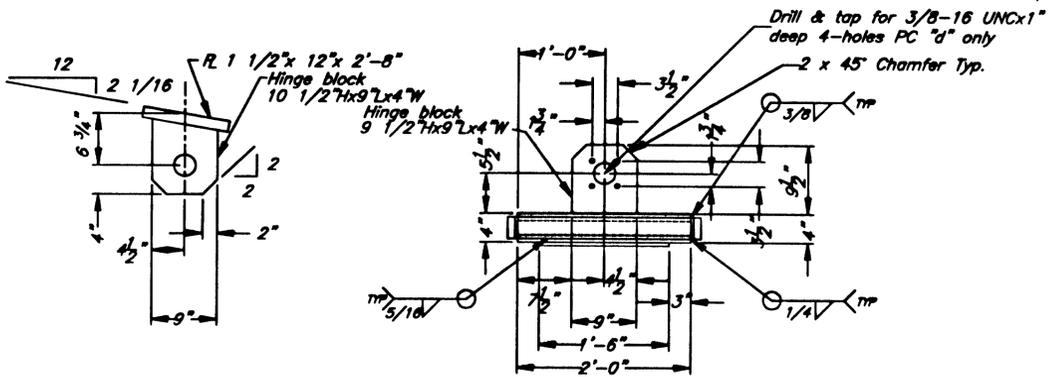
ABUTMENT - FRONT ELEVATION



FRONT ELEVATION

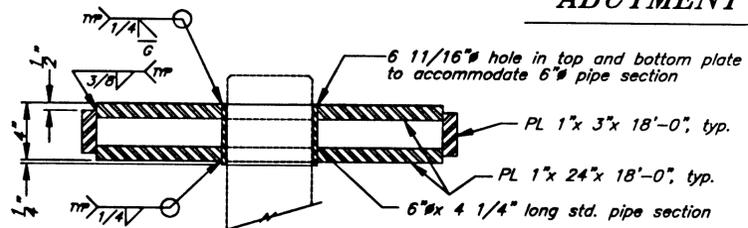


SIDE ELEVATION



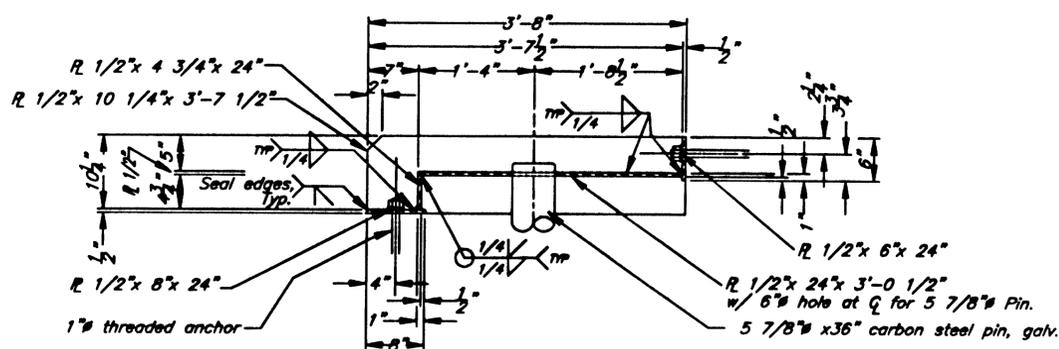
ABUTMENT HINGE

D3

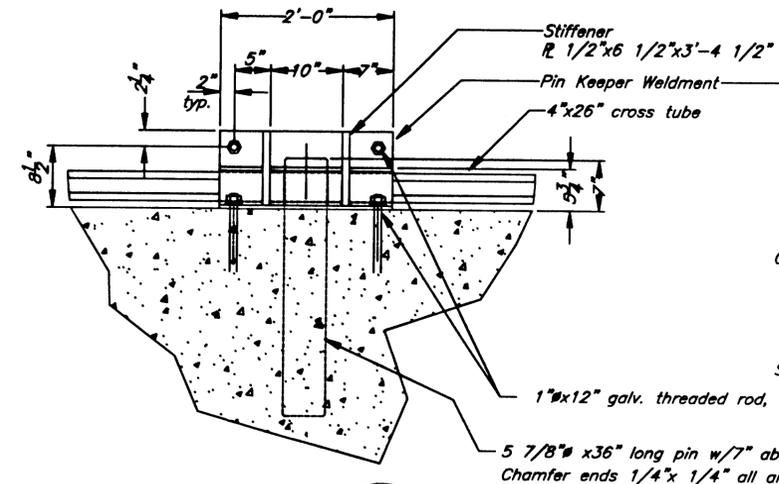


SECTION THRU CROSS TUBE @ CENTERLINE

D2

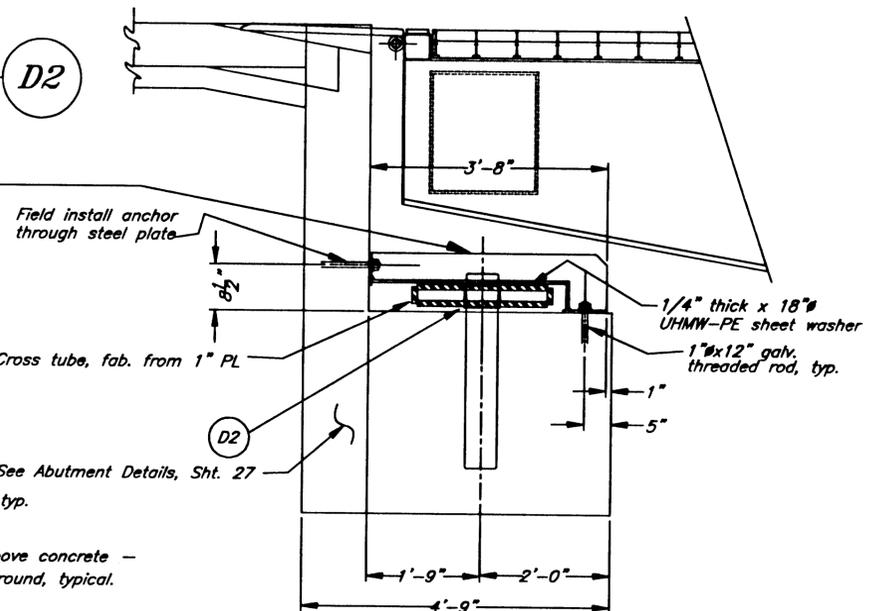


PIN KEEPER WELDMENT DETAILS



PIN KEEPER

D1



SECTION @ ABUTMENT CL

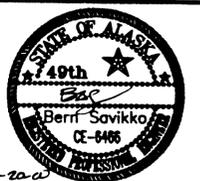
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

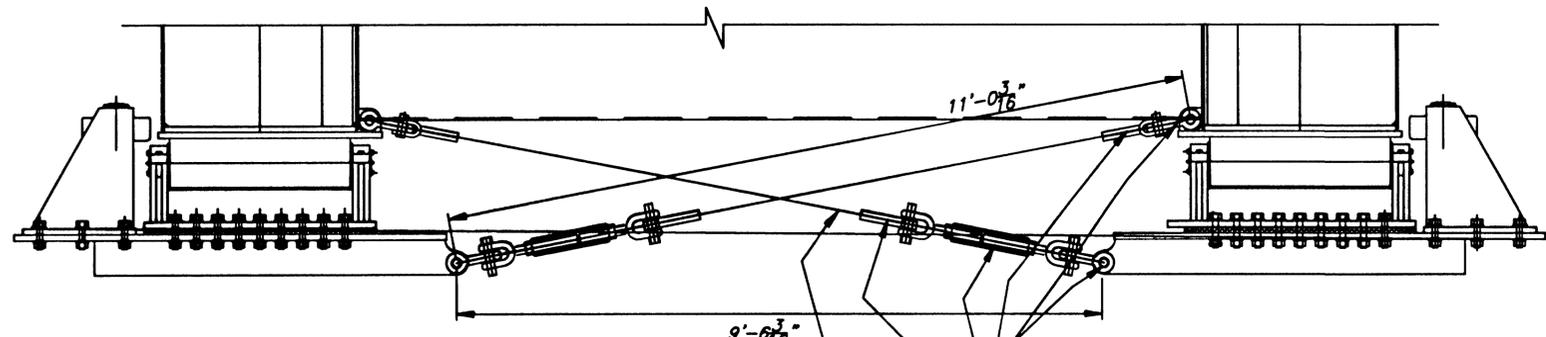
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PLOT:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 87857
ALASKA
ABUTMENT BEARING DETAILS

DESIGNED BY:	Savikko	PROJECT NO.	87857
DRAWN BY:	Fuman	DATE:	November 2000
CHECKED BY:	Miller	SHEET	31 OF 87

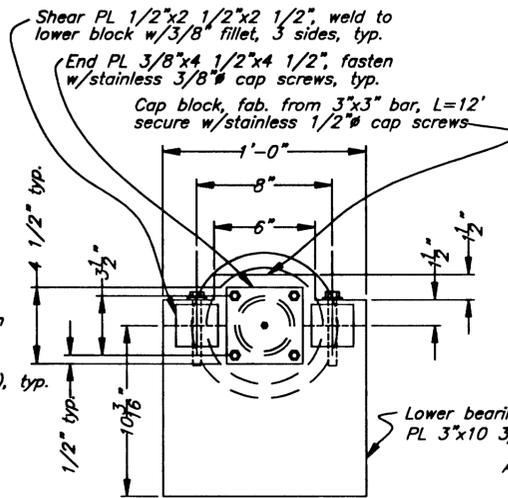




NOTE: Make up wire assembly w/tumbuckle at 4" (1/3 takeup) so the overall length between the end shackle pins is 11'-0 1/4". Once rope is installed, adjust tumbuckles to allow 2" lateral movement of the bridge.

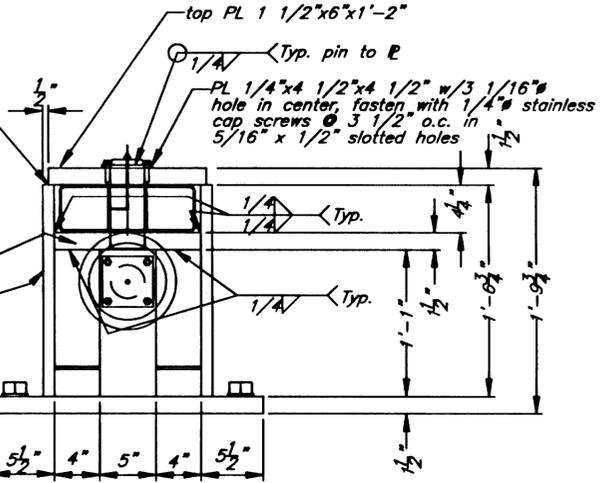
**ALIGNMENT CABLE DETAIL
FRONT ELEVATION**

- 3/4" 6x37 galvanized, IWRC wire rope cable, working strength = 21.9 tons
- 1 1/2" forged alloy bolt type anchor shackles, typ. top & bottom
- 3/4" open swage socket at shackle end of cable, typ.
- 1 1/2"x12" takeup jaw and jaw tumbuckle (install with 4" takeup), typ.
- 3/4" closed swage socket at tumbuckle end of cable, typ.

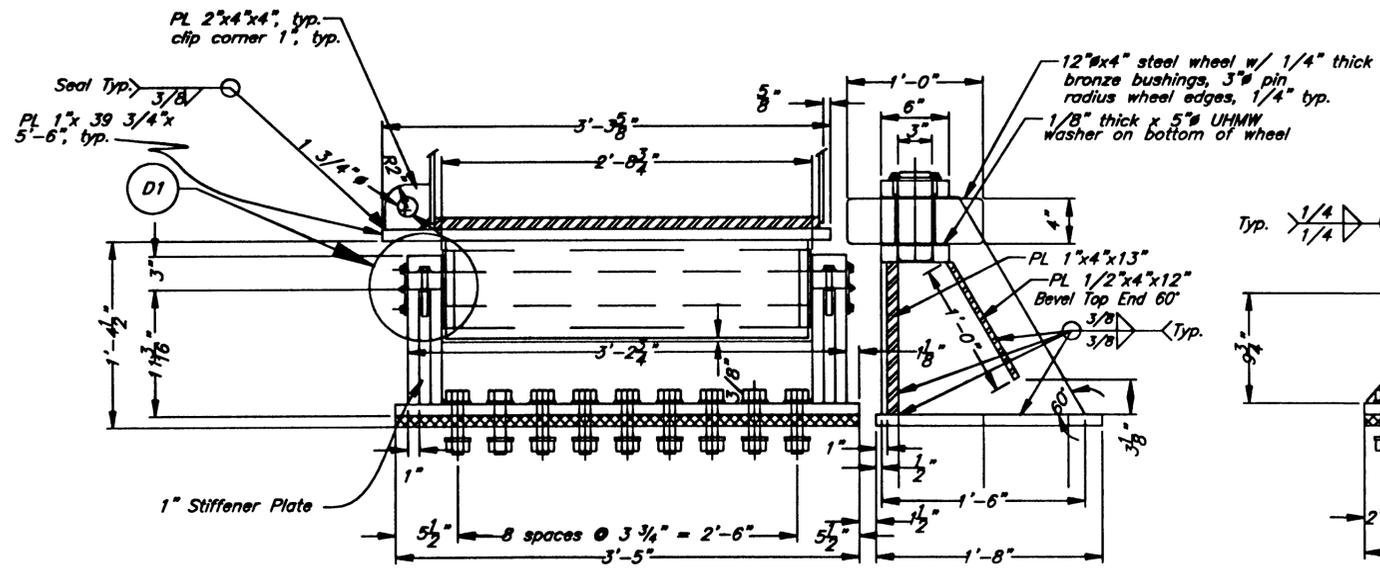


**Detail
Bearing Block** D2

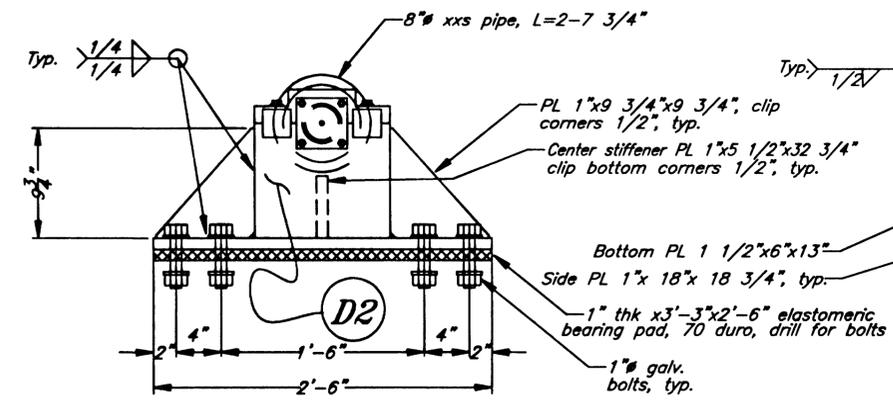
**SIDE ELEVATION - FLOAT END
(Inside face of East girder shown)**



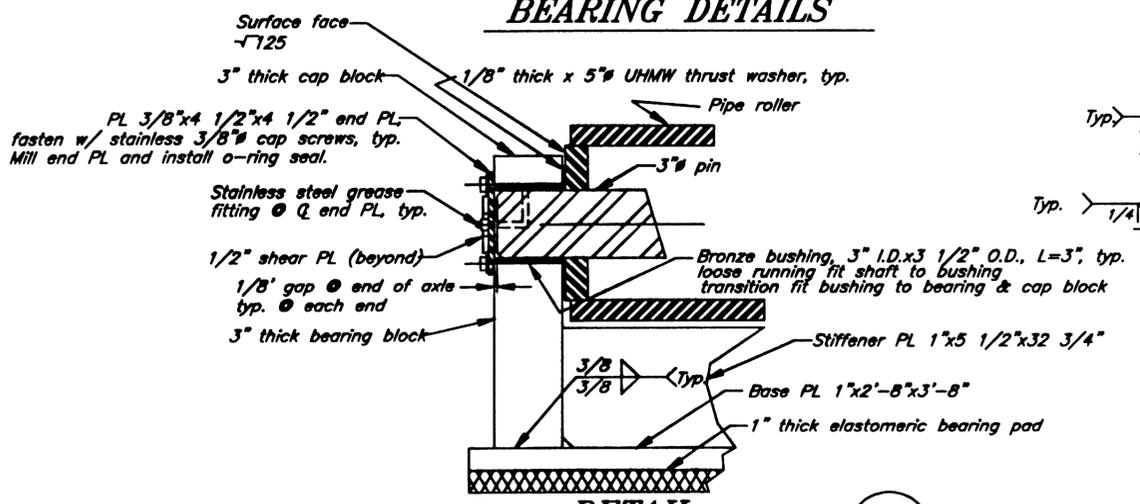
ALIGNMENT ROLLER - SIDE ELEVATION



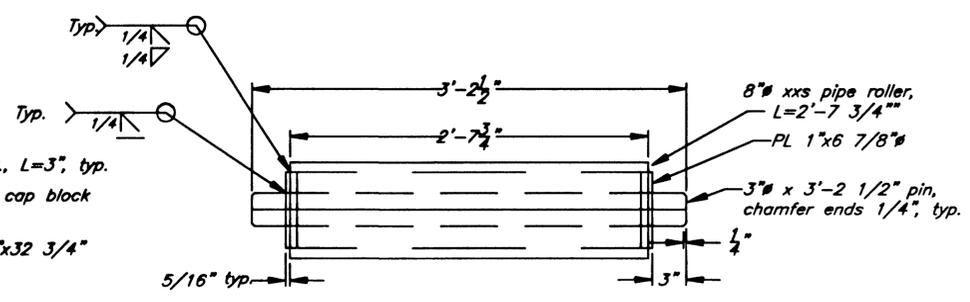
BEARING DETAILS



BEARING ROLLER - SIDE ELEVATION

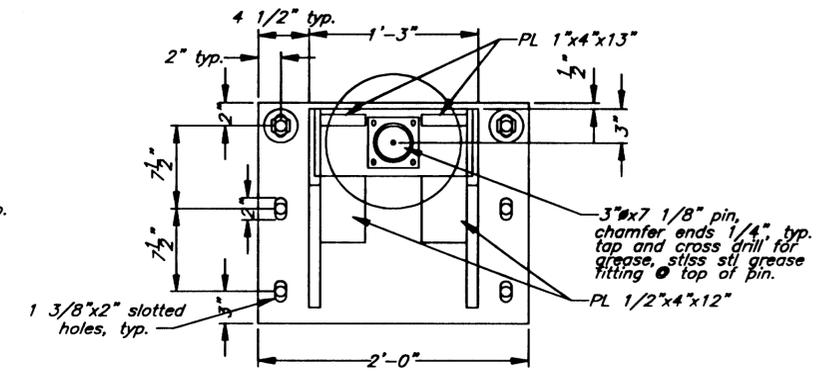


DETAIL
(Section thru roller centerline) D1



ROLLER DETAIL

Note: Galvanize after fabrication



ALIGNMENT ROLLER - TOP VIEW

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

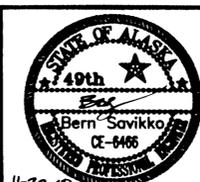
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

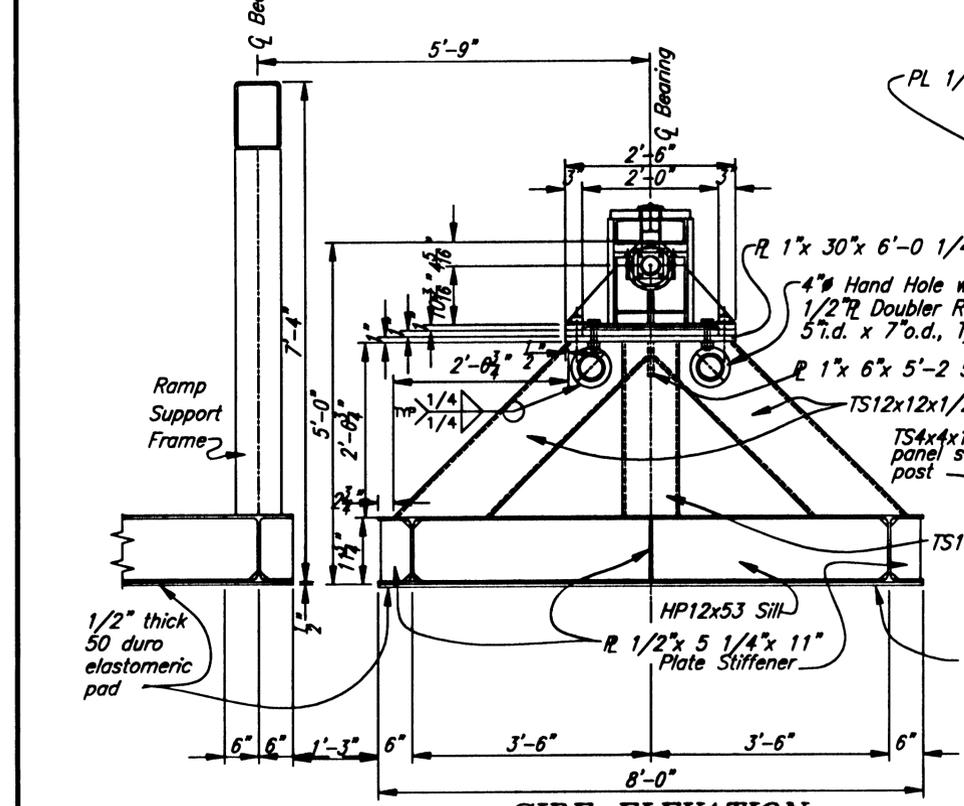
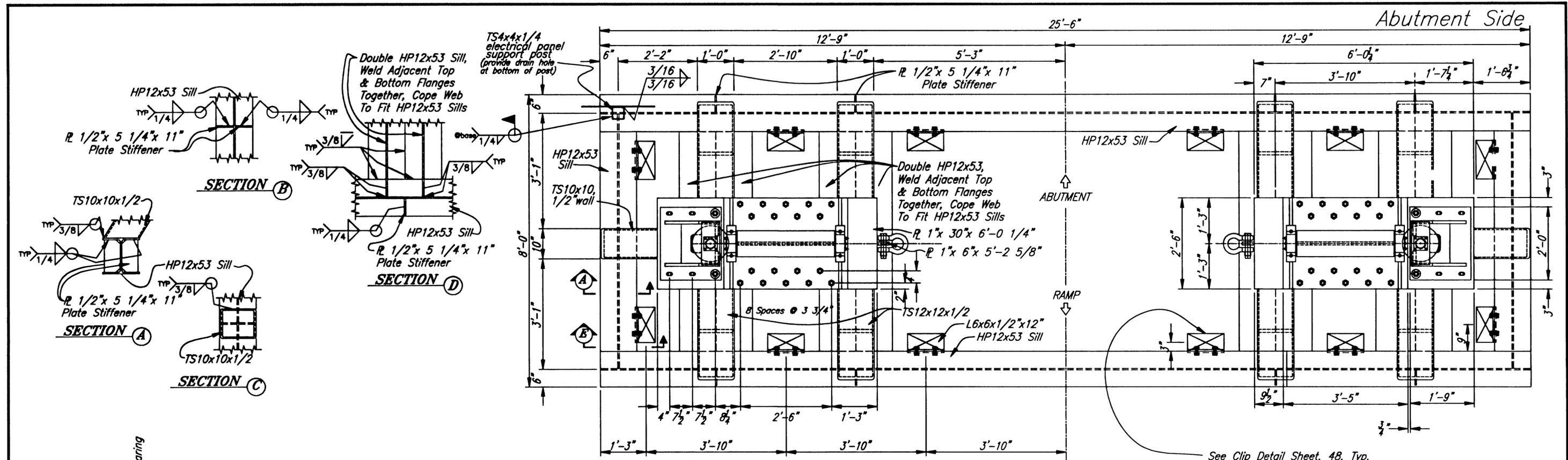
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 87857

FLOAT BEARING DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

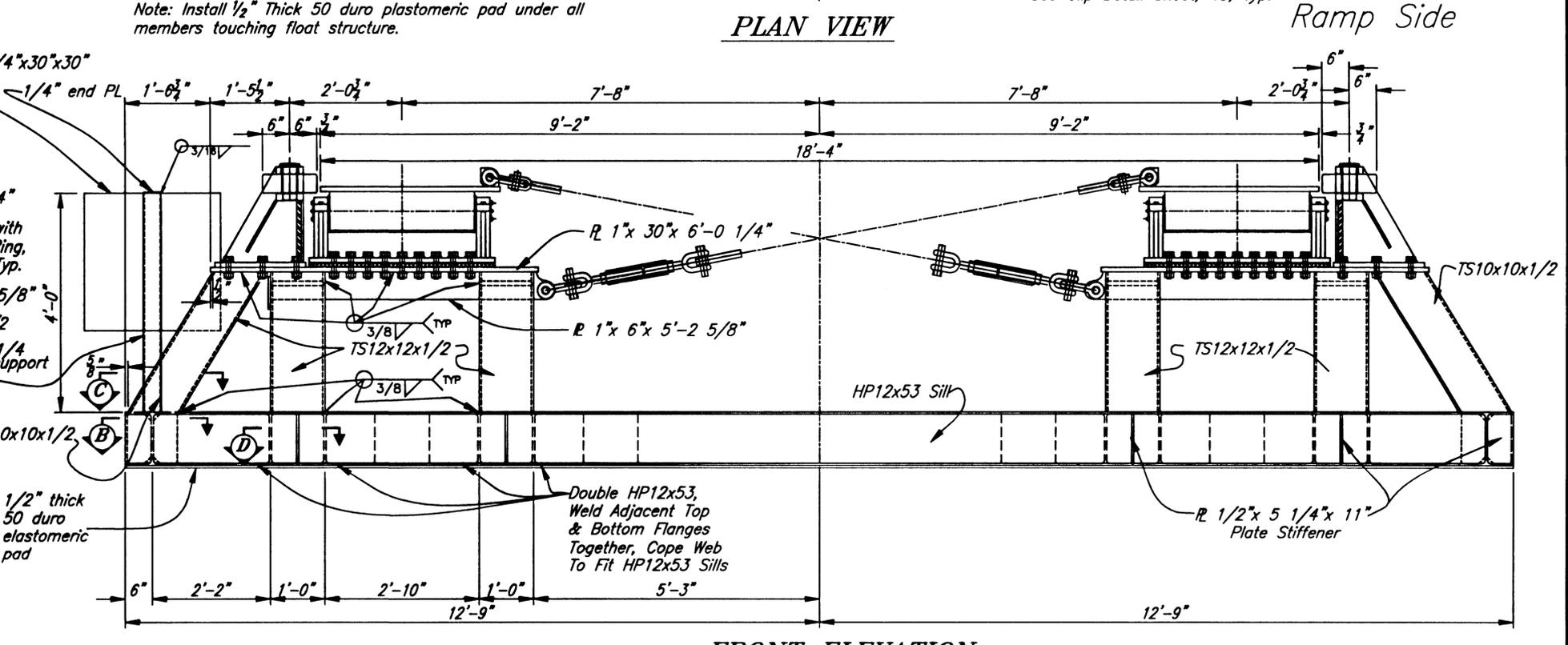
DESIGNED BY:	Savikko	PROJECT NO.	87857
DRAWN BY:	Nelson	DATE:	November 2000
CHECKED BY:	Miller	SHEET	32 OF 87





SIDE ELEVATION

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:



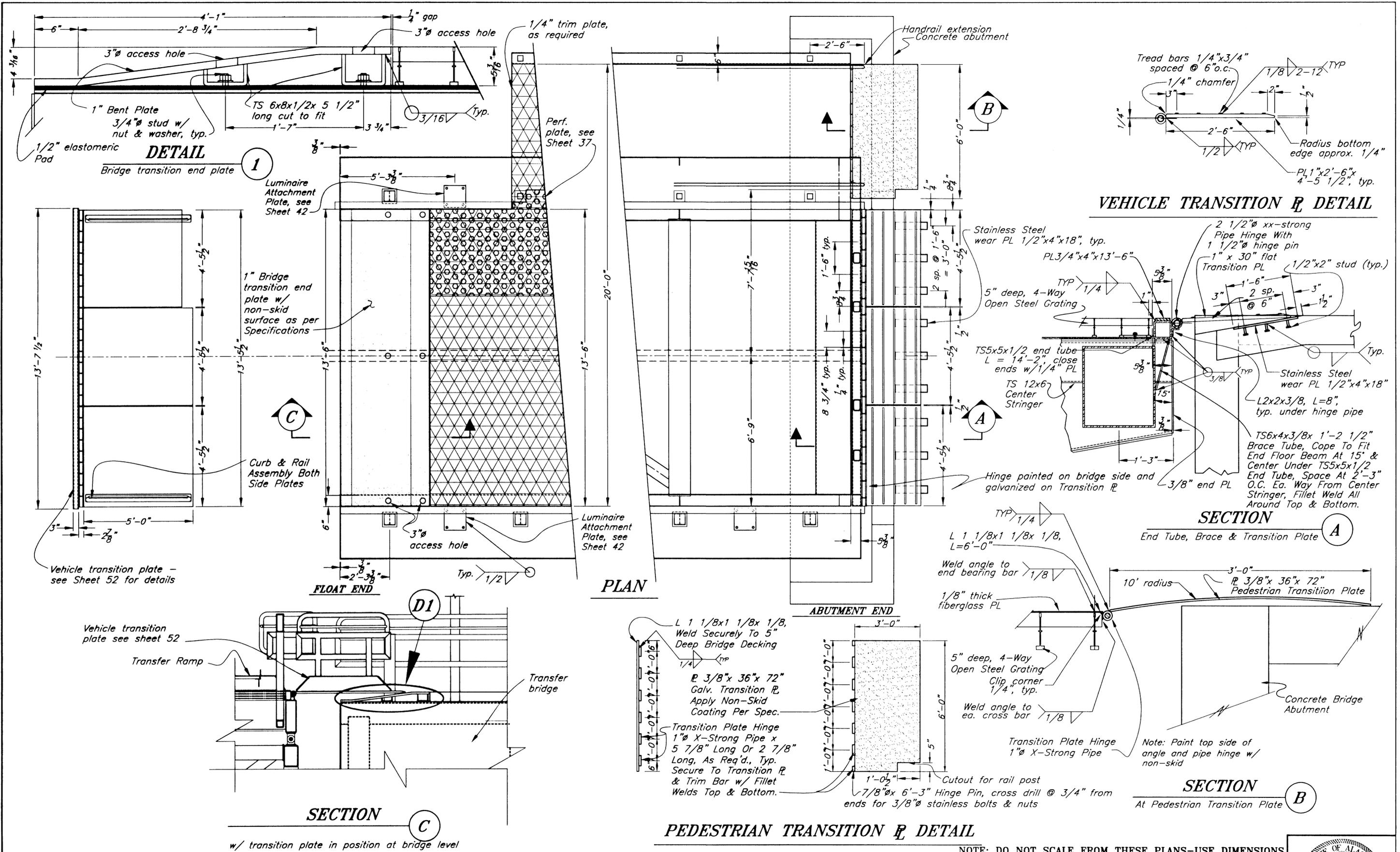
FRONT ELEVATION
Looking Towards Abutment

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I Project No. MGS - 0003(87) / 67857	ALASKA DESIGNED BY: Nelson DRAWN BY: Nelson CHECKED BY: Savikko	PROJECT NO. 67857 DATE: November 2000 SHEET 33 OF 87
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BRIDGE BEARING SUPPORT DETAILS





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BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
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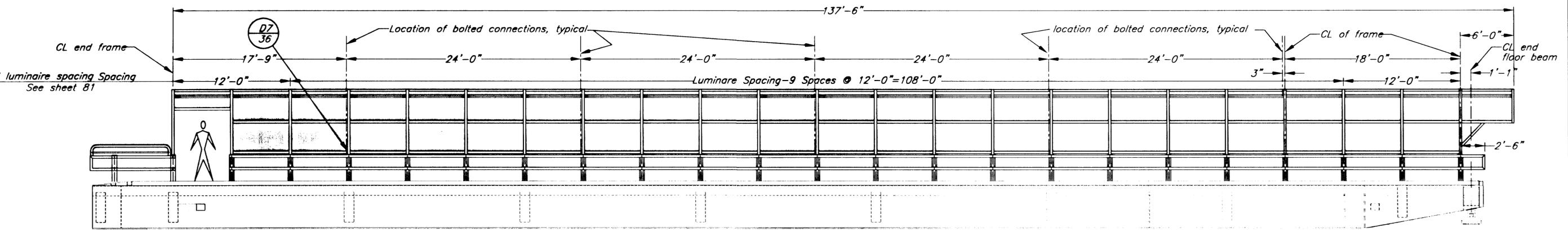
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(67) / 67857 ALASKA

TRANSITION PLATE DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

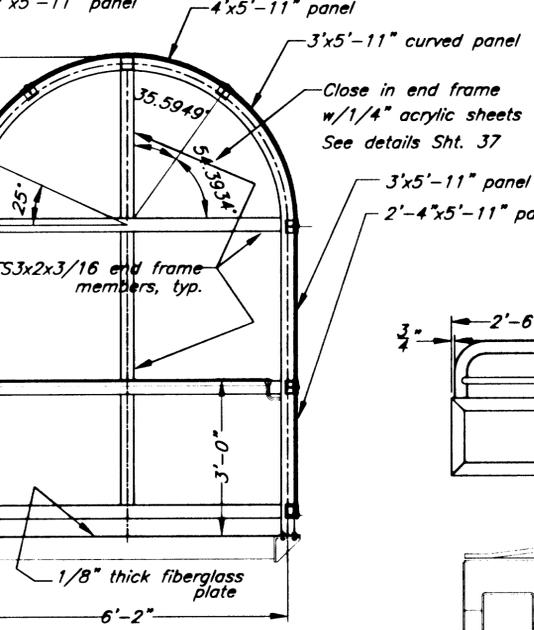
DESIGNED BY: Savikko	PROJECT NO. 67857
DRAWN BY: Fuman	DATE: November 2000
CHECKED BY: Miller	SHEET 34 OF 87



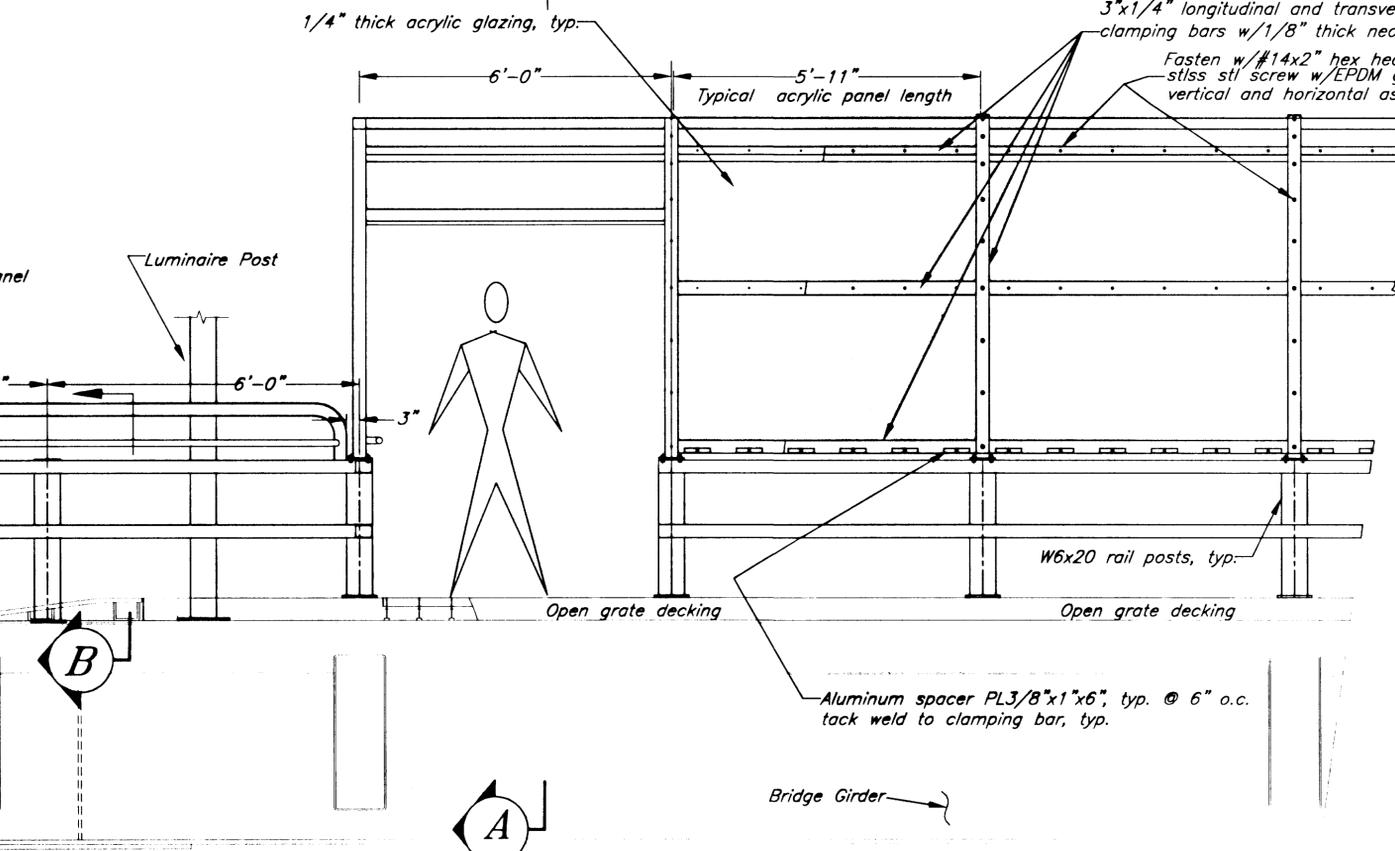


ELEVATION

panels to be thermoformed to 38 5/8" inside radius
per manufacturer's instructions.

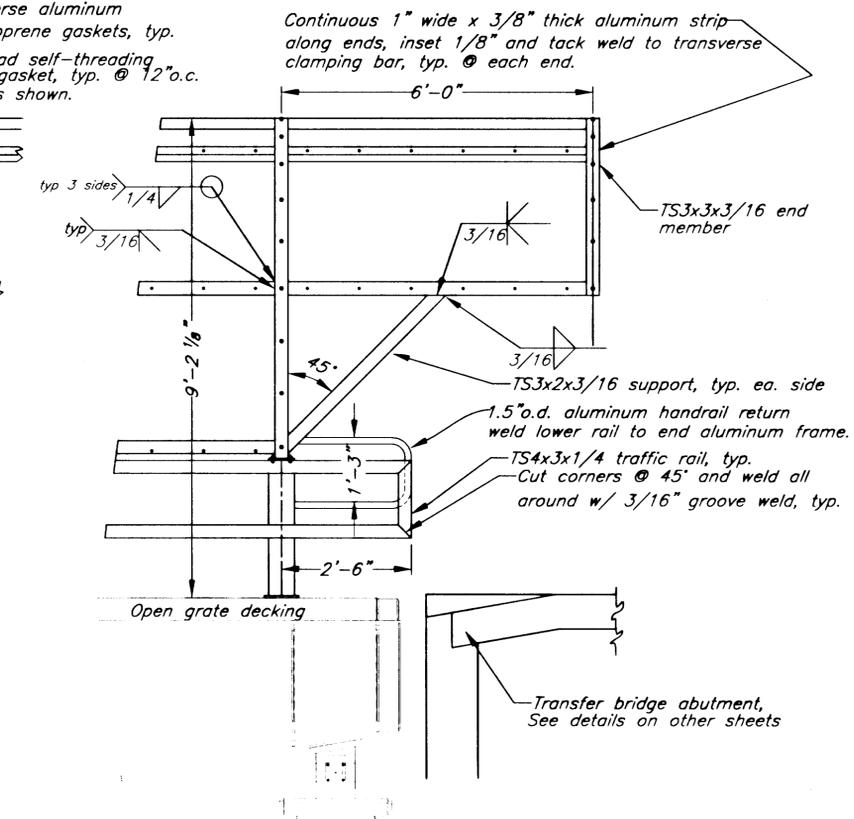


Section A
End frame detail



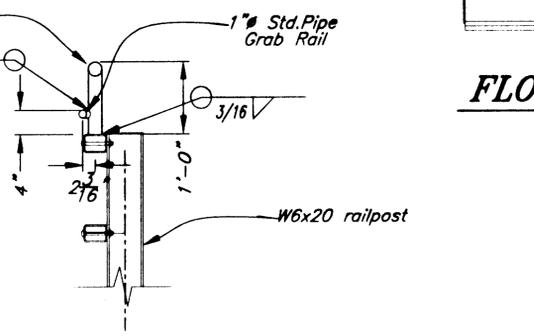
FLOAT END ELEVATION

TYPICAL COVER ELEVATION



ABUTMENT END ELEVATION

NOTE: Cover frames to be fabricated from 3x3x3/16 bent aluminum tube or
two 3 x 1 1/2 x 3/16 channels, bent and welded to form a tube. Alloy for bent
tubes and all straight members shall be 6061-T6 aluminum.



Section B
Top Rail Detail

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

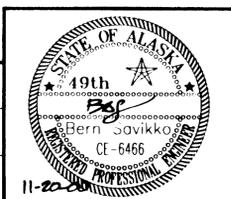
57\Planset\s35-Walkway cover.dwg
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ORD OF REVISIONS

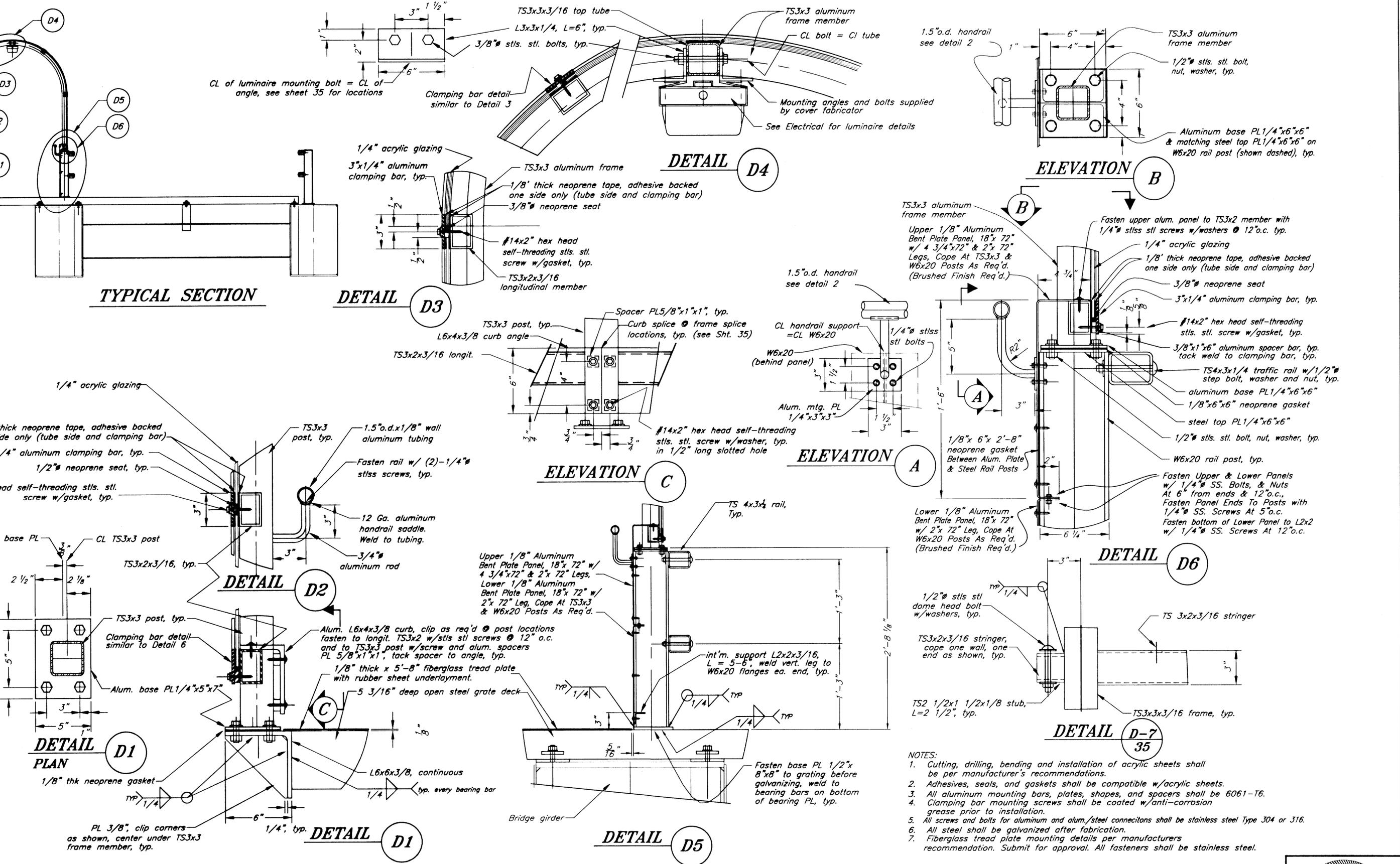
STATE OF ALASKA
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SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(87) / 67857

TRANSFER BRIDGE WALKWAY COVER

DESIGNED BY: Savikko	PROJECT NO. 67857
DRAWN BY: Fuman	DATE: November 2000
CHECKED BY: Miller	SHEET 35 OF 87





- NOTES:**
1. Cutting, drilling, bending and installation of acrylic sheets shall be per manufacturer's recommendations.
 2. Adhesives, seals, and gaskets shall be compatible w/acrylic sheets.
 3. All aluminum mounting bars, plates, shapes, and spacers shall be 6061-T6.
 4. Clamping bar mounting screws shall be coated w/anti-corrosion grease prior to installation.
 5. All screws and bolts for aluminum and alum./steel connections shall be stainless steel Type 304 or 316.
 6. All steel shall be galvanized after fabrication.
 7. Fiberglass tread plate mounting details per manufacturers recommendation. Submit for approval. All fasteners shall be stainless steel.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

57\Planset\s36-Walkway cover details.dwg

DESCRIPTION OF CHANGE:

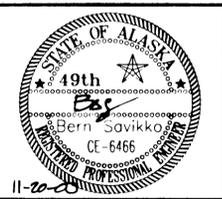
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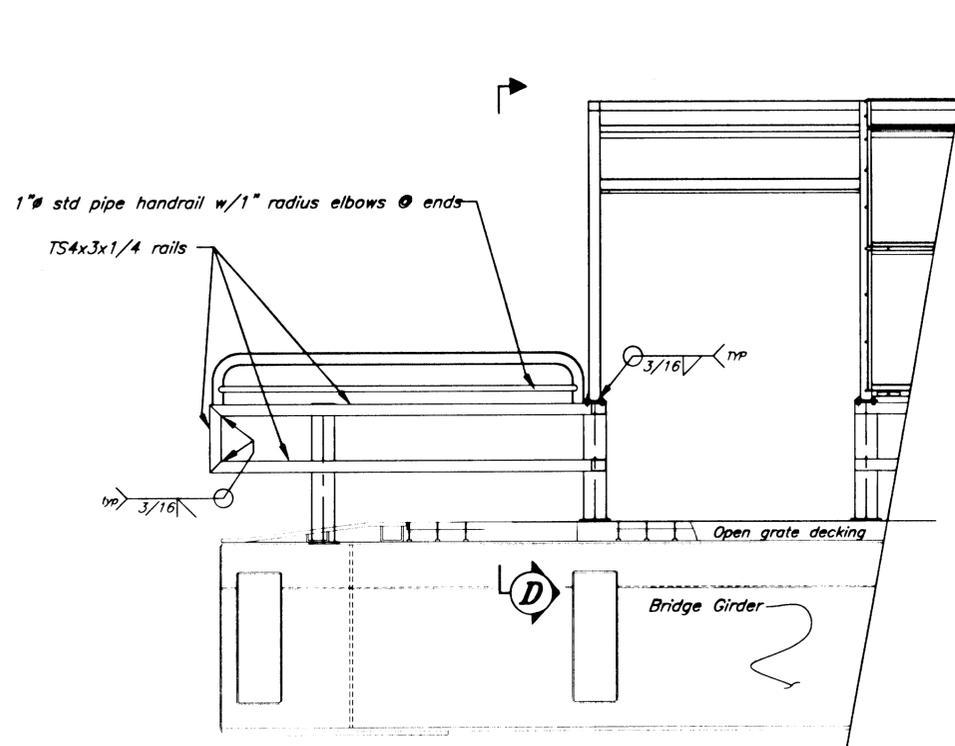
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857

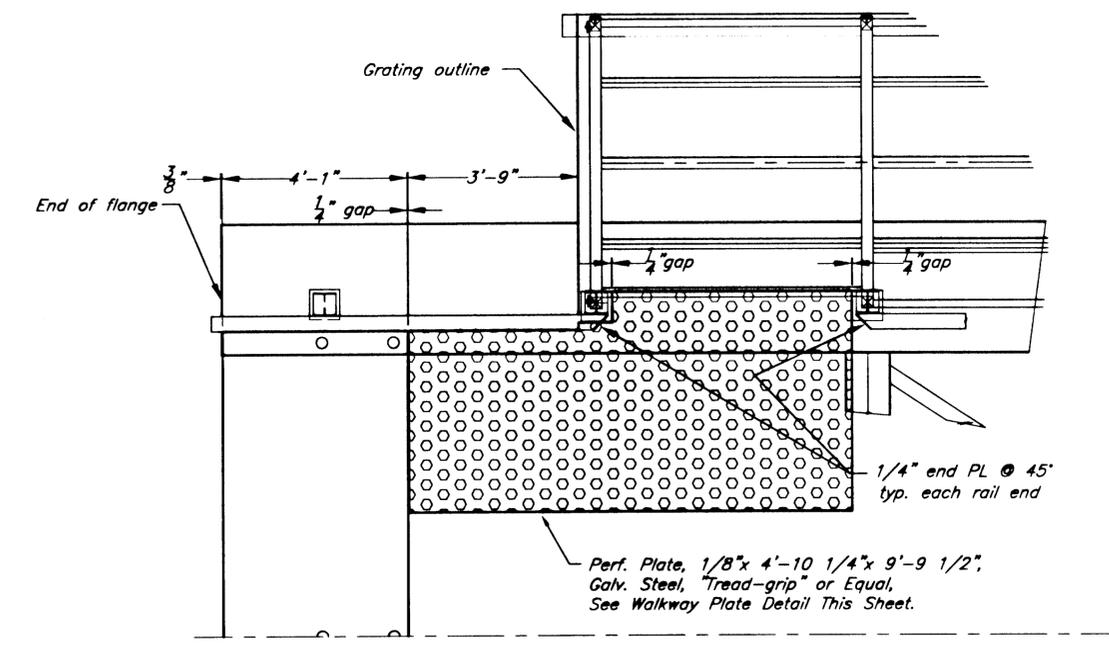
BRIDGE WALKWAY COVER DETAILS

DESIGNED BY: Savikko	PROJECT NO. 67857
DRAWN BY: Fuman	DATE: November 2000
CHECKED BY: Miller	SHEET 36 OF 87

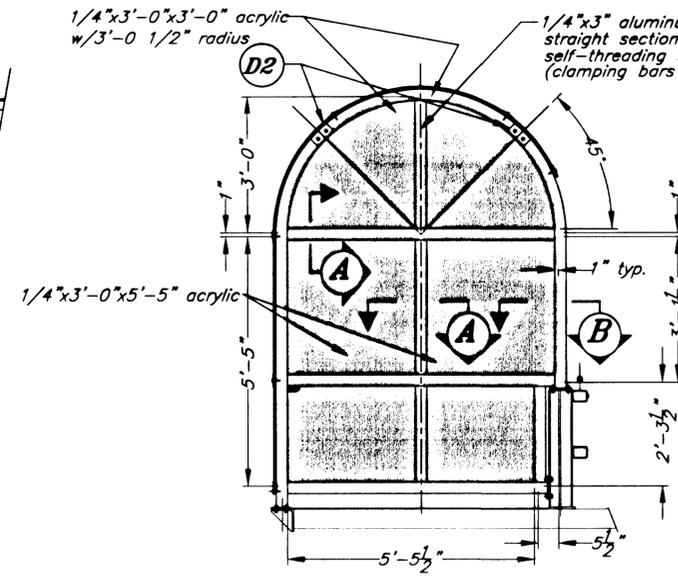




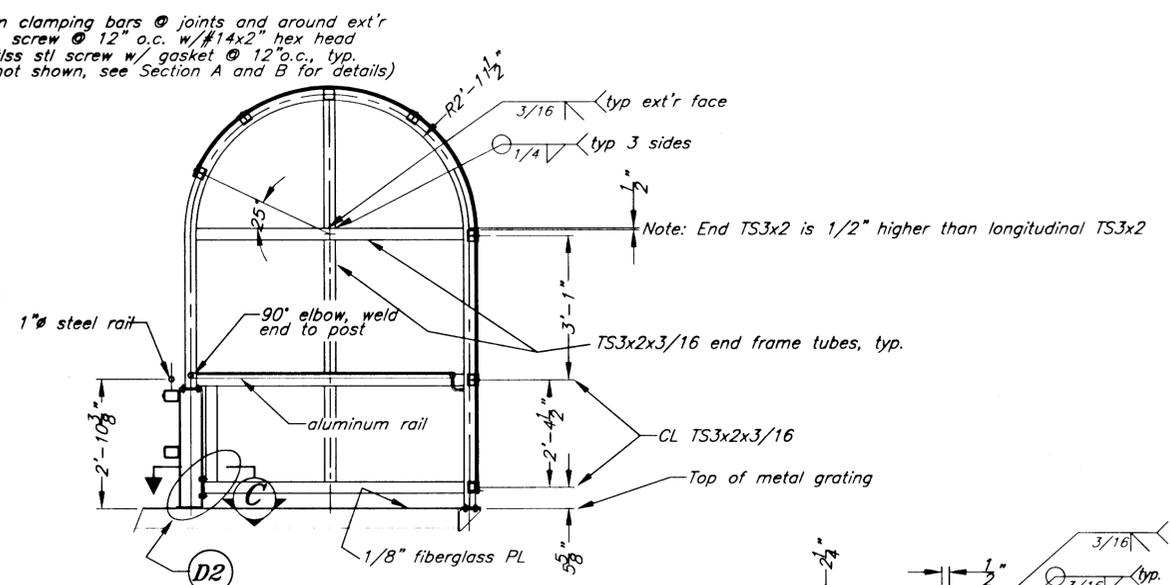
FLOAT END ELEVATION



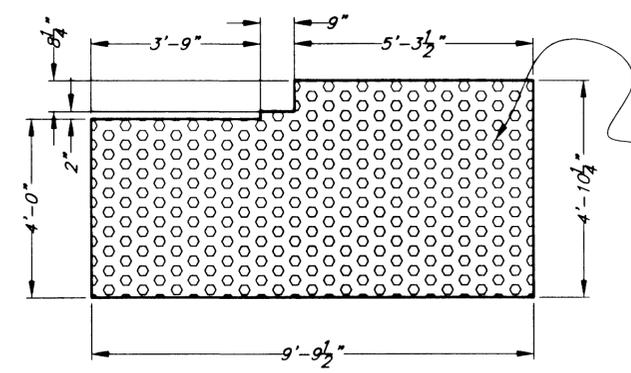
FLOAT END PLAN



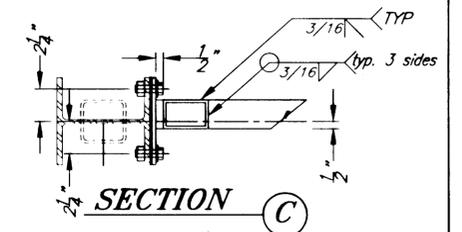
END VIEW - ELEVATION (Looking Shoreward)



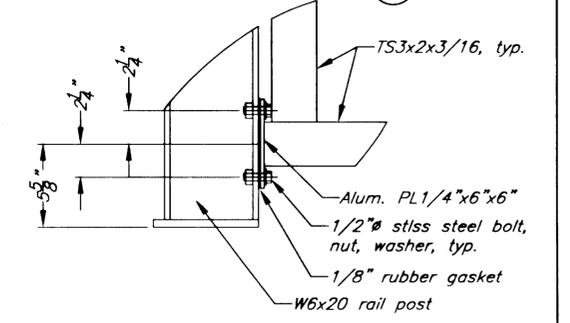
END VIEW (Looking Seaward)



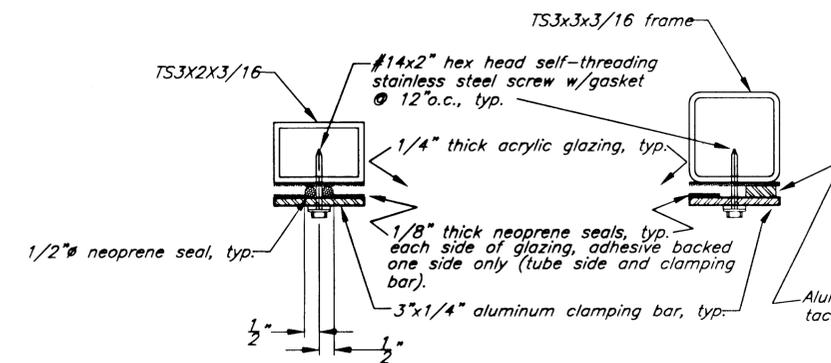
WALKWAY PLATE DETAIL



SECTION C

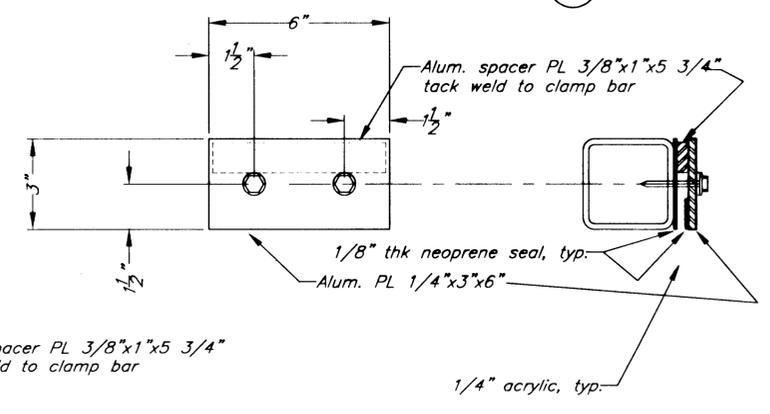


DETAIL D1



SECTION A

SECTION B



DETAIL D2

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

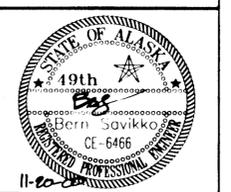
PATH: Q:\Ktn\67857\Planset\s37-Walkway corner details.dwg		
PLOT:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
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KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
BRIDGE WALKWAY CORNER DETAILS

DESIGNED BY: Savikko
DRAWN BY: Fuman
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 37 OF 87

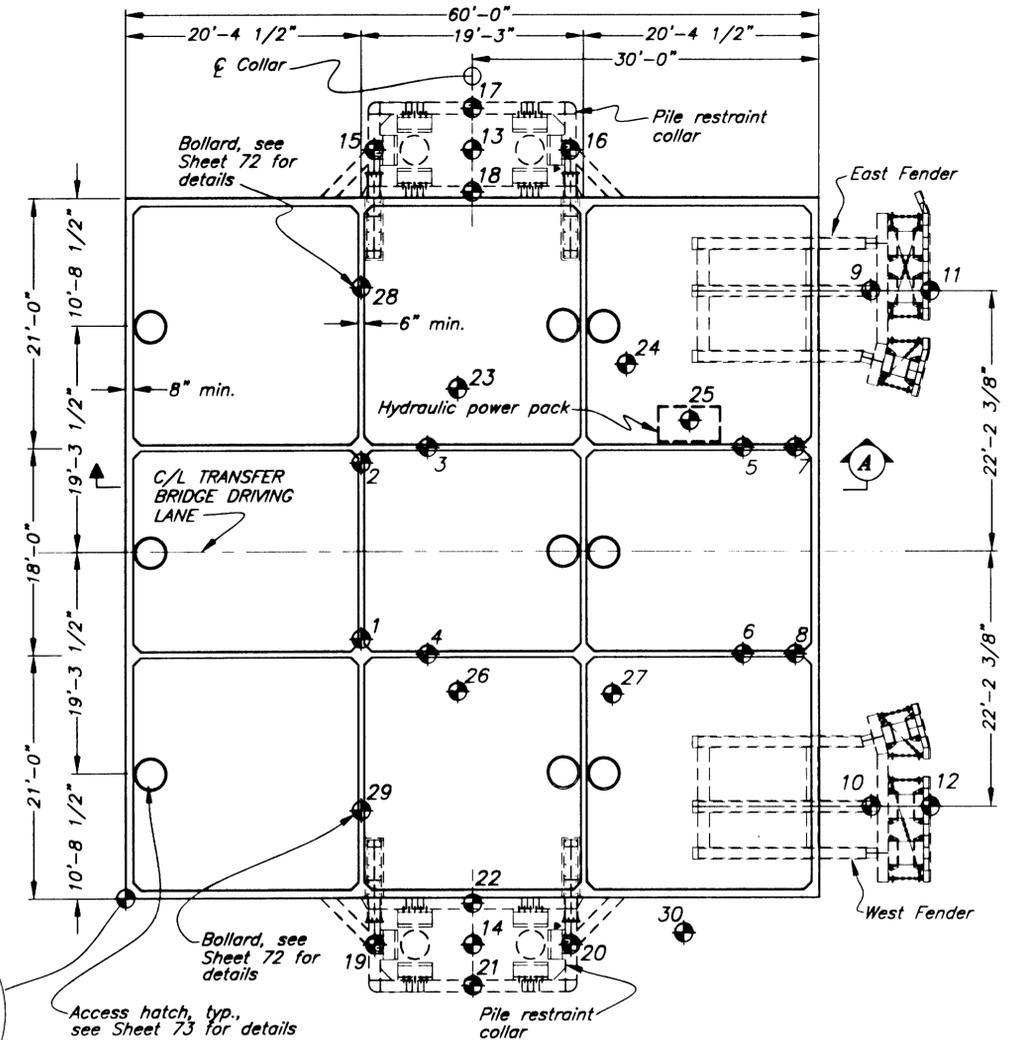


GENERAL DESIGN CRITERIA:

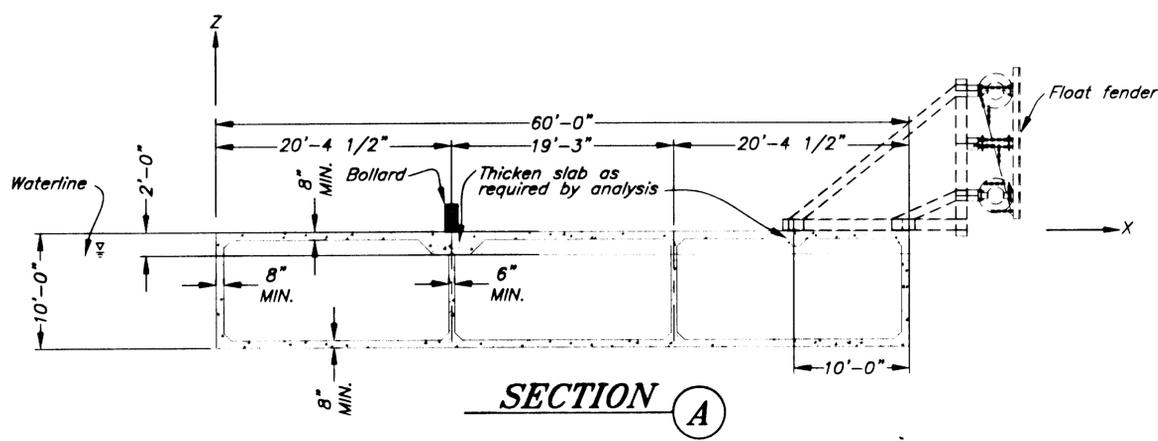
Wave Load: Height = 4 feet ; Period = 4 sec
 Wave Load Direction: Perpendicular & parallel to axis of float

Uniform Load:
 660 psf sides & bottom
 250 psf deck

Concentrated: 2000 lb over 1 sf ; sides & bottom
 Watertightness: Full hydrostatic head @ 64 pcf water density
 Freeboard: Contractor's design shall provide a minimum unballasted freeboard of 2'-6" under all dead loads. Ballast with fresh water to operational freeboard of 2'-0".



BRIDGE SUPPORT FLOAT PLAN VIEW



SECTION A

BARGE ATTACHMENT DESIGN LOADS										
Point	Coordinates (ft)		Dead Load (kips)			Live Load (kips)			Load Case	Remarks
	X	Y	Fz	Fx	Fy	Fz	Fx	Fy		
1	20.38	22.33	-70				10	50	DL Bridge + LL Vehicle	resisted by plates 1-3 & 10-12
2	20.38	37.67	-50				10	50	DL Bridge + LL Vehicle	resisted by plates 4-9
3	26.13	39.00	-11				5	10	DL Ramp + LL Vehicle	resisted by plates 19 and 20
4	26.13	21.00	-11				5	10	DL Bridge + LL Vehicle	resisted by plates 13 and 14
5	53.42	39.00	-11				5	10	DL Bridge + LL Vehicle	resisted by plates 5 and 6
6	53.42	21.00	-11				5	10	DL Bridge + LL Vehicle	resisted by plates 8 and 9
7	57.96	39.00	-11				10	10	DL Bridge + LL Vehicle	resisted by plates 6 and 7
8	57.96	21.00	-11				10	10	DL Bridge + LL Vehicle	resisted by plates 9 and 10
9	64.50	52.20	-26						Fender weight + barge motion	resisted by plates 15 and 16
10	64.50	7.80	-26						Fender weight + barge motion	resisted by plates 17 and 18
11	69.63	52.20							Berthing Load Perpendicular	resisted by plates 15 and 16
12	69.63	7.80							Berthing Load Parallel	resisted by plates 17 and 18
13	30.00	63.98	-7						Collar weight + barge motion	resisted by plates 19 and 20
14	30.00	-3.98	-7						Collar weight + barge motion	resisted by plates 21 and 22
15	21.51	63.98							mooring	resisted by plates 19 and 20 and anchor bolts
16	38.49	63.98							berthing	resisted by plates 19 and 20 and anchor bolts
17	30.00	67.47							wind/wave/current + friction	resisted by plates 19 and 20
18	30.00	60.49							wind/wave/current + friction	centroid of pile bearing load
19	21.51	-3.98							mooring	resisted by plates 21 and 22 and anchor bolts
20	38.49	-3.98							berthing	resisted by plates 21 and 22 and anchor bolts
21	30.00	-7.47							wind/wave/current + friction	resisted by plates 21 and 22
22	30.00	-0.49							wind/wave/current + friction	centroid of pile bearing load
23	28.74	40.58	-7						DL + LL	resisted by plates 23 to 26
24	43.35	46.03	-1						DL + LL	resisted by plates 27 and 28
25	48.83	41.33	-2						DL	resisted by plates 29 to 32
26	28.74	17.75	-4						DL + LL	resisted by plates 33 to 36
27	42.12	17.50	-2						DL + LL	resisted by plates 37 and 38
28	20.38	54.50	-0.5	50	-25				mooring	resisted by plate 39
29	20.38	5.50	-0.5	50	25				mooring	resisted by plate 40
30	48.25	-3.00	-7						DL + LL	resisted by plates 41 to 43

Notes: Coordinates represent approximate centroid of load from structure or structure component. Loads provided are unfactored. Use appropriate load factors when designing barge. Use this chart only for purposes of determining appropriate structural detailing for barge. Wind Load for points 1-8 may be calculated as 1.0Fx + 0.3Fy or 3.0Fx + 1.0Fy, whichever controls

Load Case 1: Listed Load Case from Table
 Load Case 2: DL + LL Vehicle + Wind for points 1-8
 Load Case 3: Berthing Load + DL
 Load Case 4: Mooring Load + Wind/Wave/Current + Friction + DL @ points 13-22

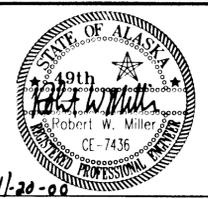
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

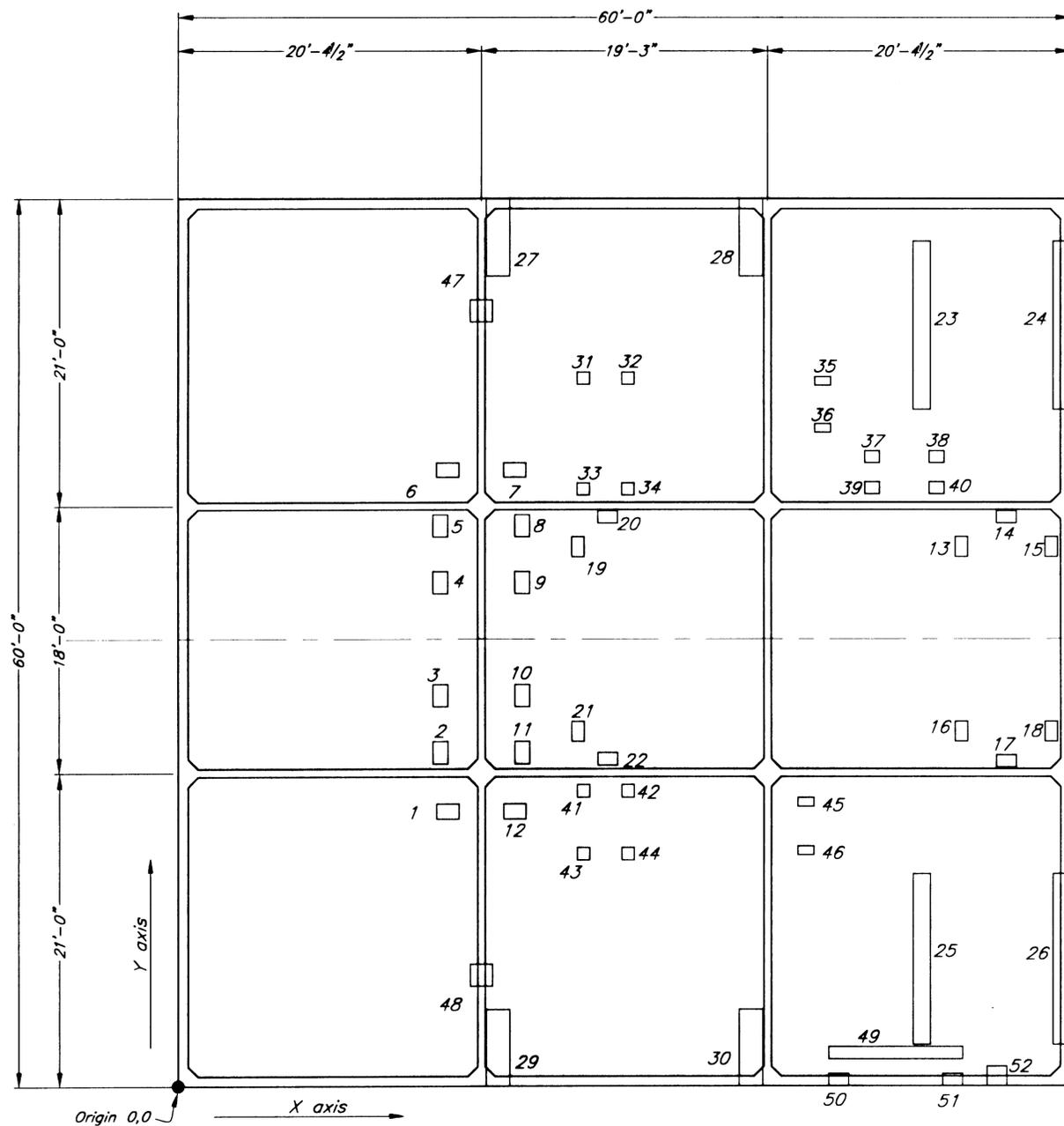
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DESCRIPTION OF CHANGE:
ORD OF REVISIONS

STATE OF ALASKA
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 SOUTHEAST REGION

KETCHIKAN
 KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(87) / 67857
 ALASKA
BRIDGE SUPPORT FLOAT

DESIGNED BY: Miller
 DRAWN BY: Fuman
 CHECKED BY: Savikko
 PROJECT NO. 67857
 DATE: November 2000
 SHEET 38 OF 87





BRIDGE SUPPORT FLOAT EMBEDDED PLATE LAYOUT

BRIDGE SUPPORT FLOAT EMBEDDED PLATES							
PLATE	COORDINATES (FT) OF CENTER		PLATE DIMENSIONS		NO. STUDS	REMARKS	
	X	Y	X	Y			Thickness
1	18.13	18.50	1'-6"	1'-0"	5/8"	6	Bridge Bearing mount
2	17.63	22.33	1'-0"	1'-6"	5/8"	6	Bridge Bearing mount
3	17.63	26.17	1'-0"	1'-6"	5/8"	6	Bridge Bearing mount
4	17.63	33.83	1'-0"	1'-6"	5/8"	6	Bridge Bearing mount
5	17.63	37.67	1'-0"	1'-6"	5/8"	6	Bridge Bearing mount
6	18.13	41.50	1'-6"	1'-0"	5/8"	6	Bridge Bearing mount
7	22.63	41.50	1'-6"	1'-0"	5/8"	6	Bridge Bearing mount
8	23.13	37.67	1'-0"	1'-6"	5/8"	6	Bridge Bearing mount
9	23.13	33.83	1'-0"	1'-6"	5/8"	6	Bridge Bearing mount
10	23.13	26.17	1'-0"	1'-6"	5/8"	6	Bridge Bearing mount
11	23.13	22.33	1'-0"	1'-6"	5/8"	6	Bridge Bearing mount
12	22.63	18.50	1'-6"	1'-0"	5/8"	6	Bridge Bearing mount
13	52.67	36.25	10"	1'-4"	1/2"	4	Int. Ramp mounts
14	55.69	38.25	1'-4"	10"	1/2"	4	Int. Ramp mount
15	58.71	36.25	10"	1'-4"	1/2"	4	Int. Ramp mount
16	52.67	23.75	10"	1'-4"	1/2"	4	Int. Ramp mount
17	55.69	21.75	1'-4"	10"	1/2"	4	Int. Ramp mount
18	58.71	23.75	10"	1'-4"	1/2"	4	Int. Ramp mount
19	26.88	36.25	10"	1'-4"	1/2"	4	Int. Ramp mount
20	28.88	38.25	1'-4"	10"	1/2"	4	Int. Ramp mount
21	26.88	23.75	10"	1'-4"	1/2"	4	Int. Ramp mount
22	28.88	21.75	1'-4"	10"	1/2"	4	Int. Ramp mount
23	50.00	51.44	1'-2"	11'-6"	5/8"	23	Fender mount
24	59.42	51.44	1'-2"	11'-6"	5/8"	23	Fender mount
25	50.00	8.56	1'-2"	11'-6"	5/8"	23	Fender mount
26	59.42	8.56	1'-2"	11'-6"	5/8"	23	Fender mount
27	21.49	57.42	1'-7"	5'-2"	5/8"	16	Collar mount
28	38.51	57.42	1'-7"	5'-2"	5/8"	16	Collar mount
29	21.49	2.58	1'-7"	5'-2"	5/8"	16	Collar mount
30	38.51	2.58	1'-7"	5'-2"	5/8"	16	Collar mount
31	27.24	47.83	10"	10"	1/2"	4	Platform A mount
32	30.27	47.86	10"	10"	1/2"	4	Platform A mount
33	27.24	40.17	10"	10"	1/2"	4	Platform A mount
34	30.27	40.17	10"	10"	1/2"	4	Platform A mount
35	43.35	47.65	1'-1"	7"	1/2"	4	Stair A mount
36	43.35	44.52	1'-1"	7"	1/2"	4	Stair A mount
37	46.67	42.42	1'-0"	10"	1/2"	4	Hydraulic Power Pack mount
38	51.00	42.42	1'-0"	10"	1/2"	4	Hydraulic Power Pack mount
39	46.67	40.25	1'-0"	10"	1/2"	4	Hydraulic Power Pack mount
40	51.00	40.25	1'-0"	10"	1/2"	4	Hydraulic Power Pack mount
41	27.24	19.83	10"	10"	1/2"	4	Ramp B mount
42	30.24	19.83	10"	10"	1/2"	4	Ramp B mount
43	27.24	15.66	10"	10"	1/2"	4	Ramp B mount
44	30.24	15.66	10"	10"	1/2"	4	Ramp B mount
45	42.20	19.11	1'-1"	7"	1/2"	4	Stair B mount
46	42.20	15.89	1'-1"	7"	1/2"	4	Stair B mount
47	20.38	52.50	1'-6"	1'-6"	1/2"	9	Bollard mount
48	20.38	7.50	1'-6"	1'-6"	1/2"	9	Bollard mount
49	48.25	2.25	9'-0"	10"	1/2"	18	Gangway Support mount
50	44.42	0.42	1'-4"	10"	1/2"	4	Gangway Support mount
51	52.07	0.42	1'-4"	10"	1/2"	4	Gangway Support mount
52	55.06	0.67	1'-4"	1'-4"	1"	9	Luminaire Base mount

Note:

- 1.) To determine plate orientation, align x dimension of plate with x axis pictured on float.
- 2.) Shielded metal arc welding ONLY on all embedded plates. No wire feed permitted.
- 3.) Shim between members/plates and embedded base plates as required to allow for concrete tolerances.
- 4.) See Sheet 42 for additional embedded plate information.

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

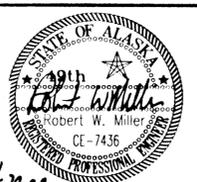
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

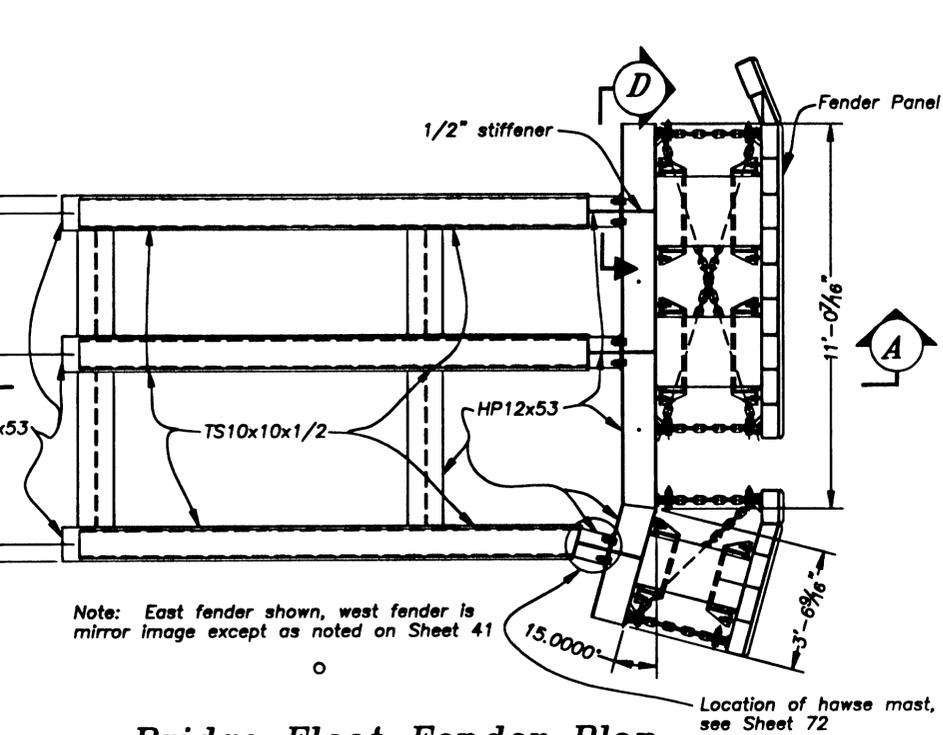
STATE OF ALASKA
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Project No. MGS - 0003(67) / 67857

BRIDGE SUPPORT FLOAT PLATE LAYOUT

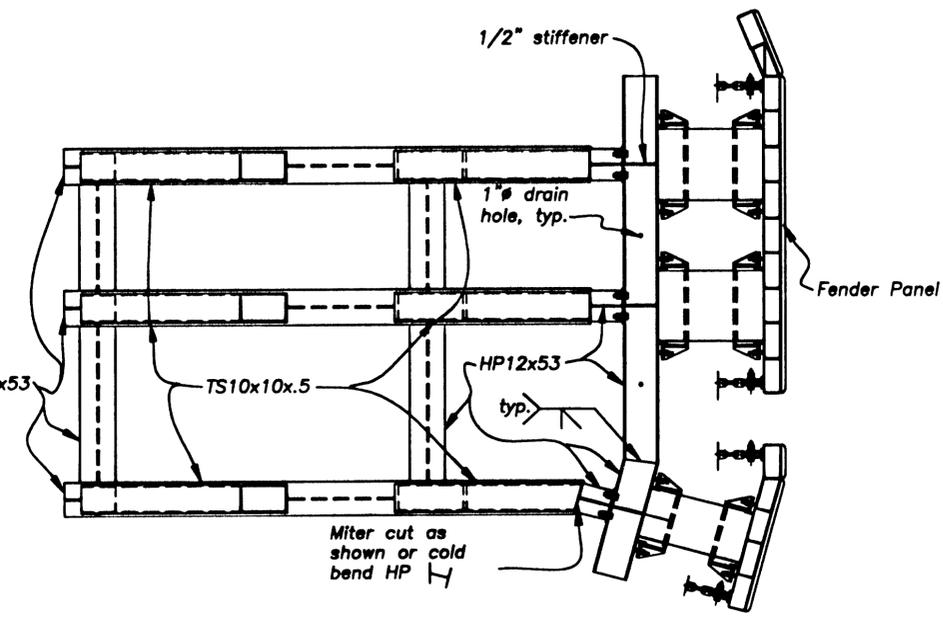
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DRAWN BY: Fuman	DATE: November 2000
CHECKED BY: Savikko	SHEET 39 OF 87



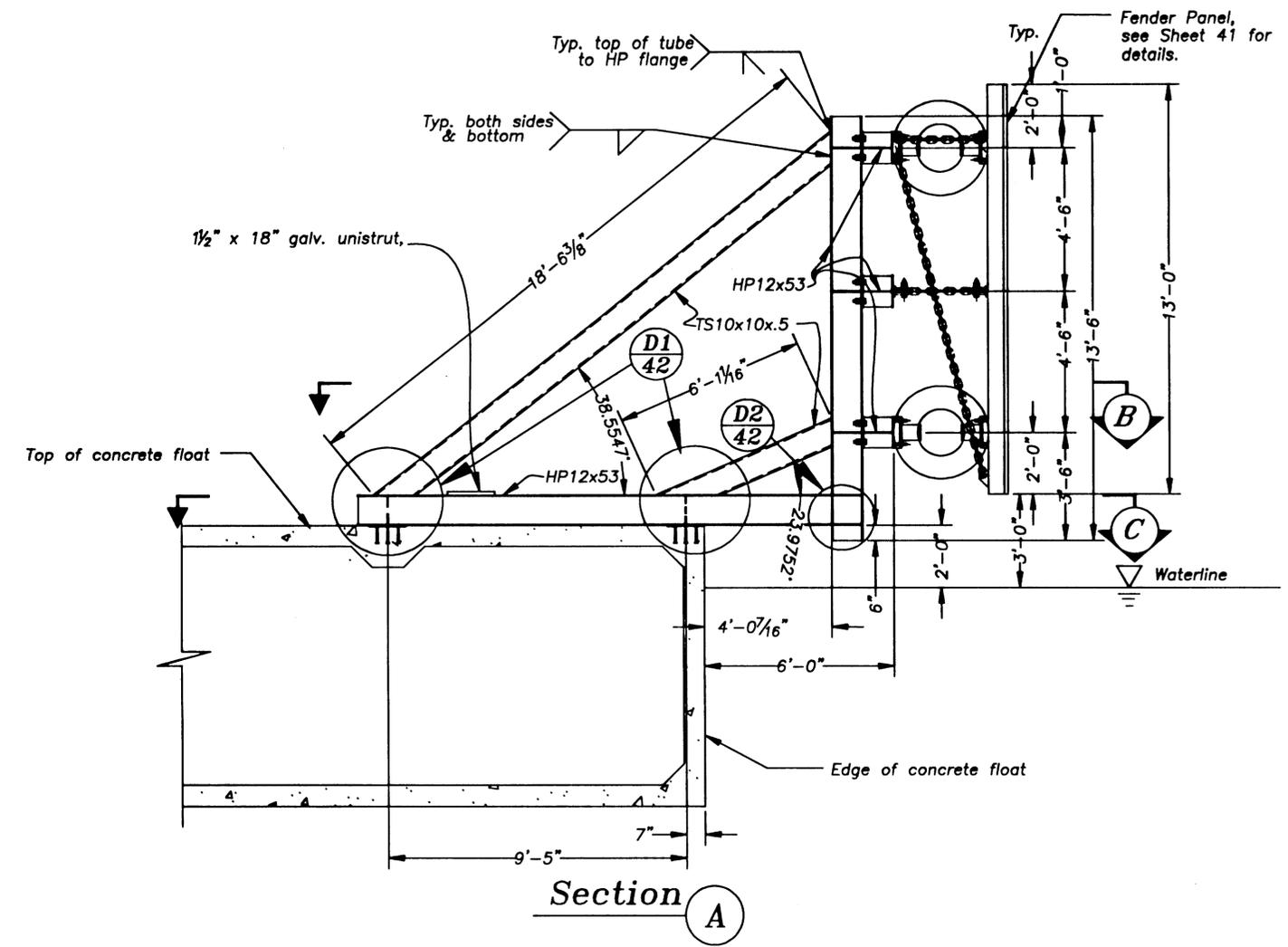


Note: East fender shown, west fender is mirror image except as noted on Sheet 41

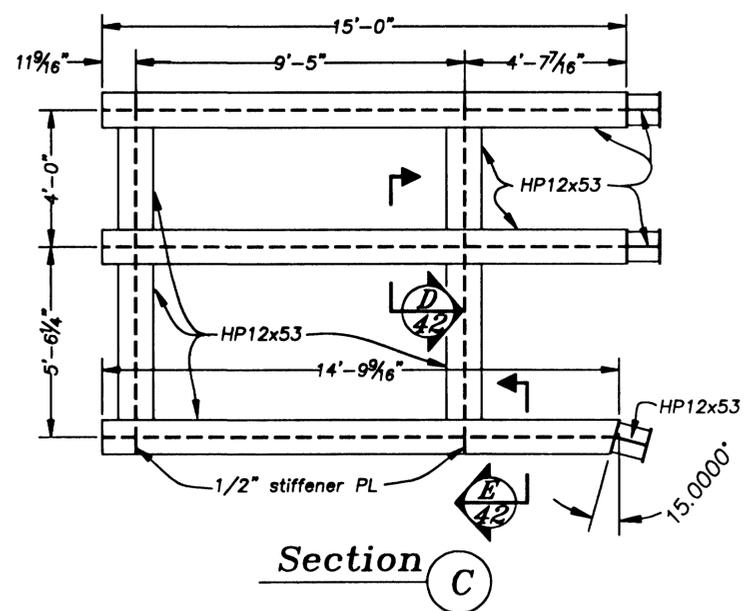
Bridge Float Fender Plan



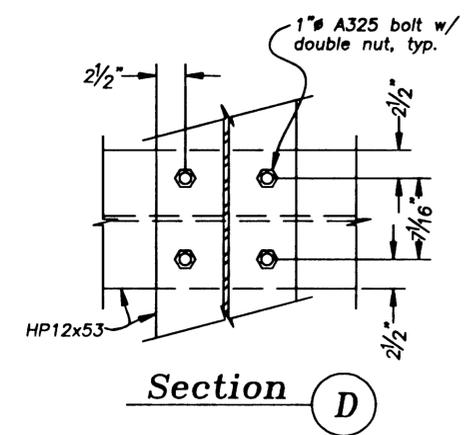
Section B



Section A



Section C



Section D

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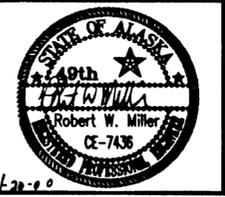
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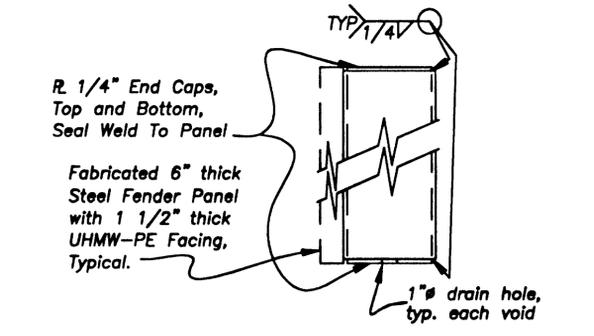
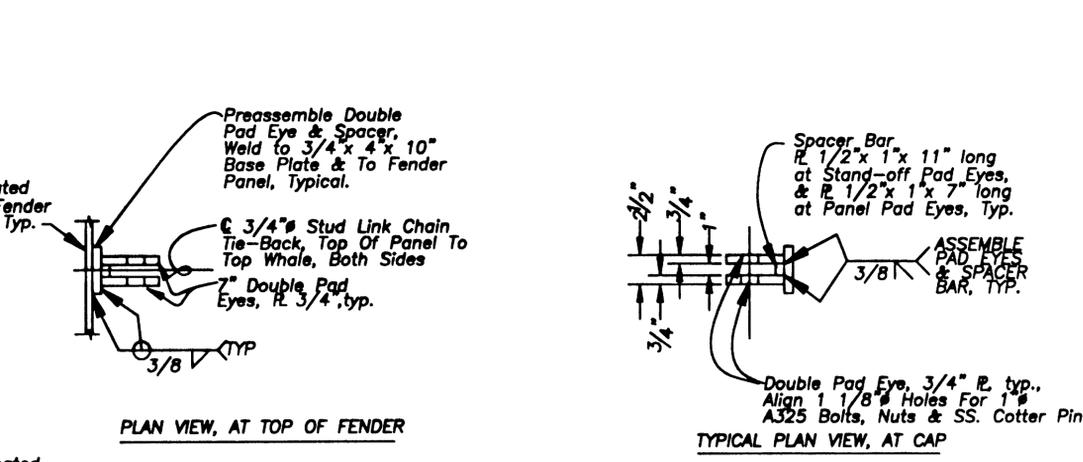
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Project No. MGS - 0003(87) / 67657
ALASKA
BRIDGE FLOAT FENDER

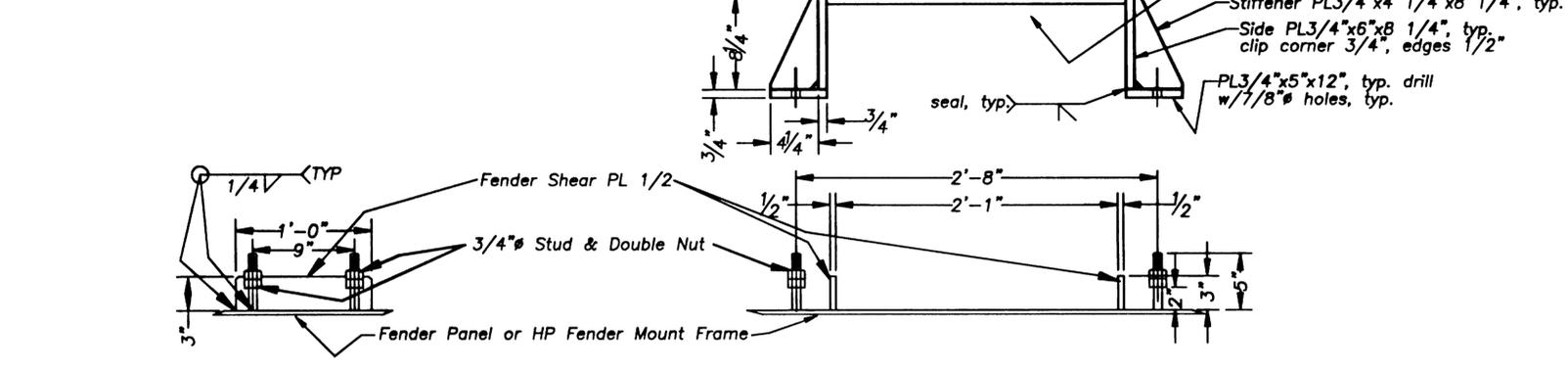
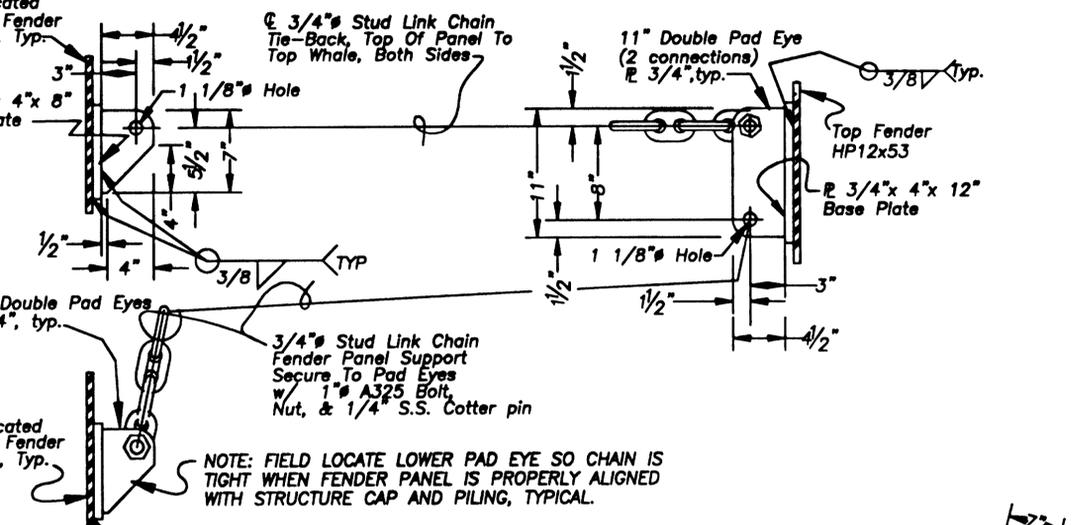
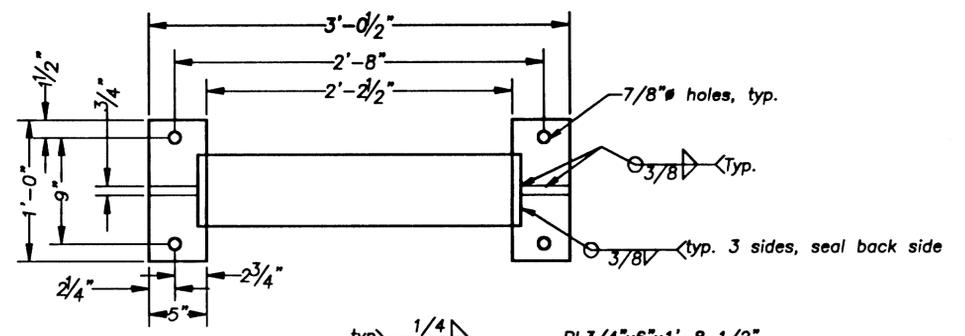
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DRAWN BY: Fuman
CHECKED BY: Savikko

PROJECT NO. 67657
DATE: November 2000
SHEET 40 OF 87

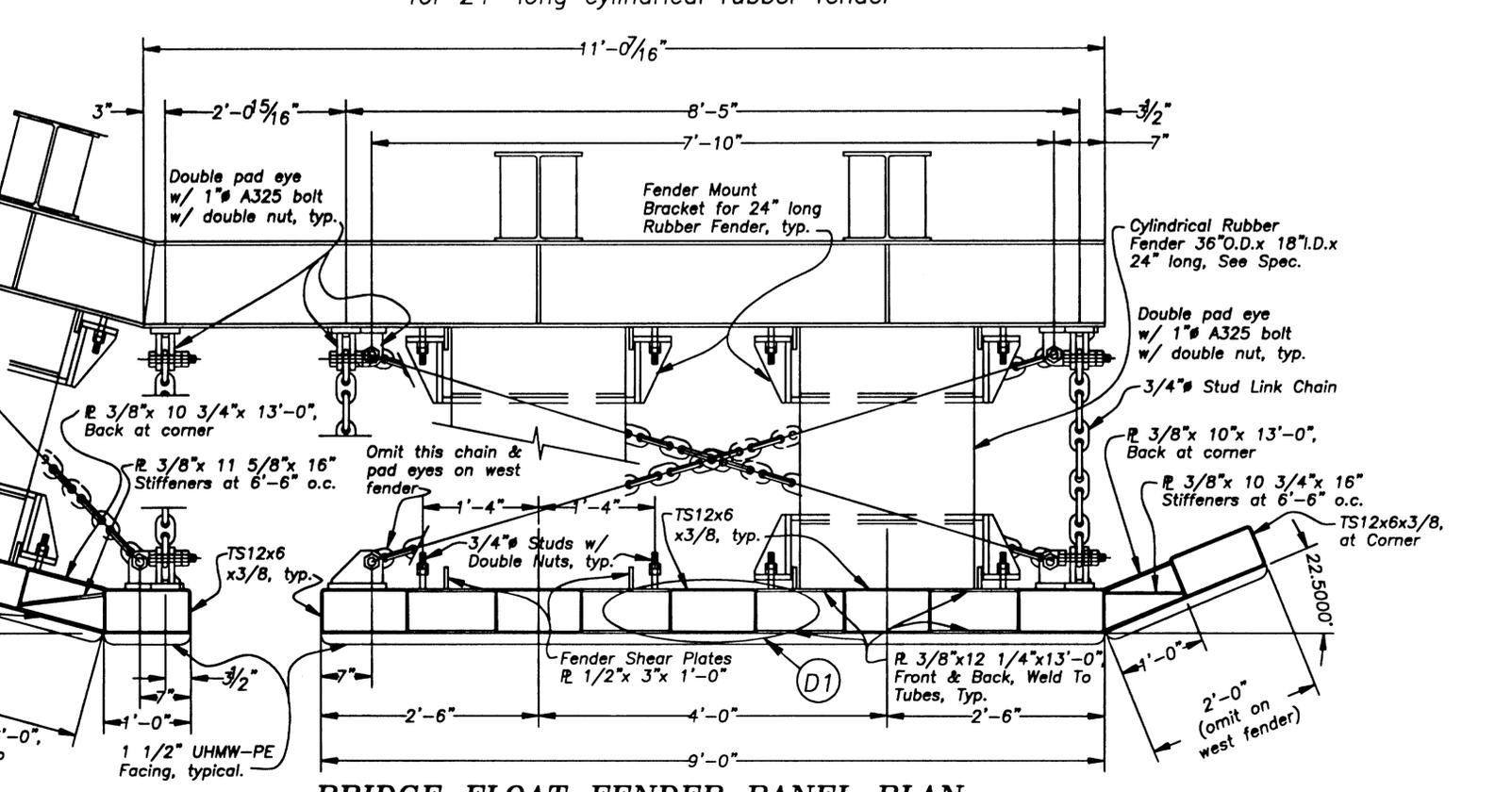
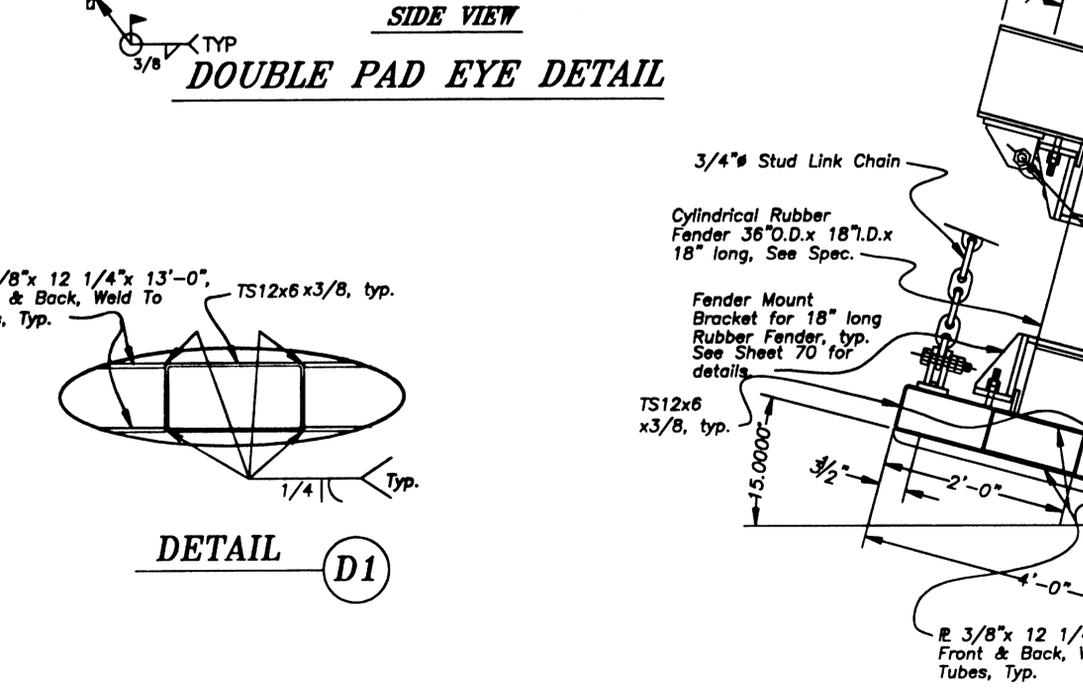




FENDER PANEL COVER PLATES



FENDER MOUNT BRACKET & MOUNTING DETAILS
for 24" long cylindrical rubber fender



BRIDGE FLOAT FENDER PANEL PLAN

Note: 1 1/2" UHMW-PE facing on 9' & 4' wide panels to be black, 1' & 2' panels to be yellow.

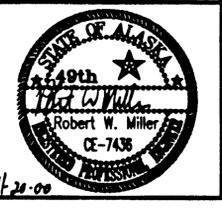
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

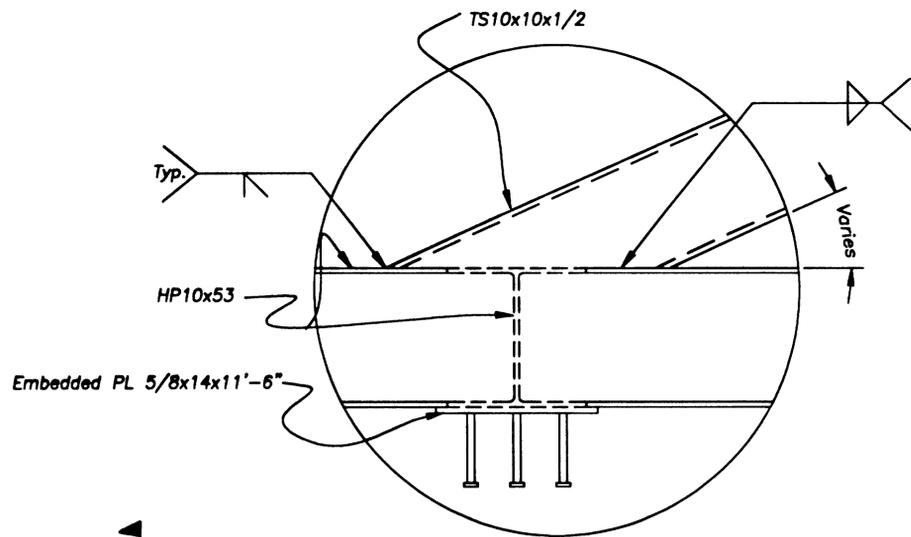
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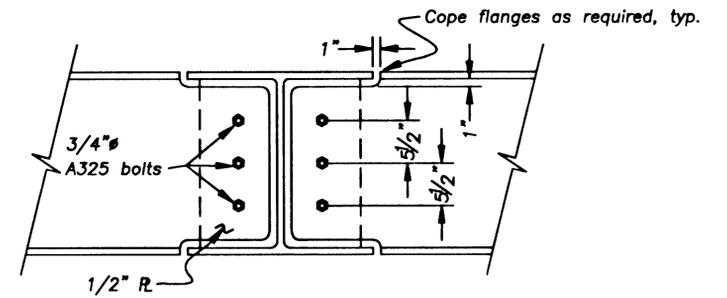
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Project No. MGS - 0003(67) / 67857
BRIDGE FLOAT FENDER PANEL DETAILS

DESIGNED BY: Miller	PROJECT NO. 67857
DRAWN BY: Fuman	DATE: November 2000
CHECKED BY: Savikko	SHEET 41 OF 87

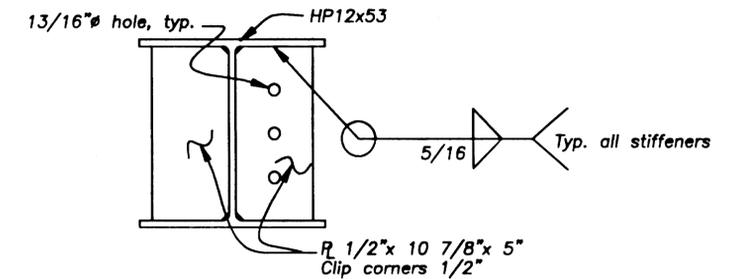




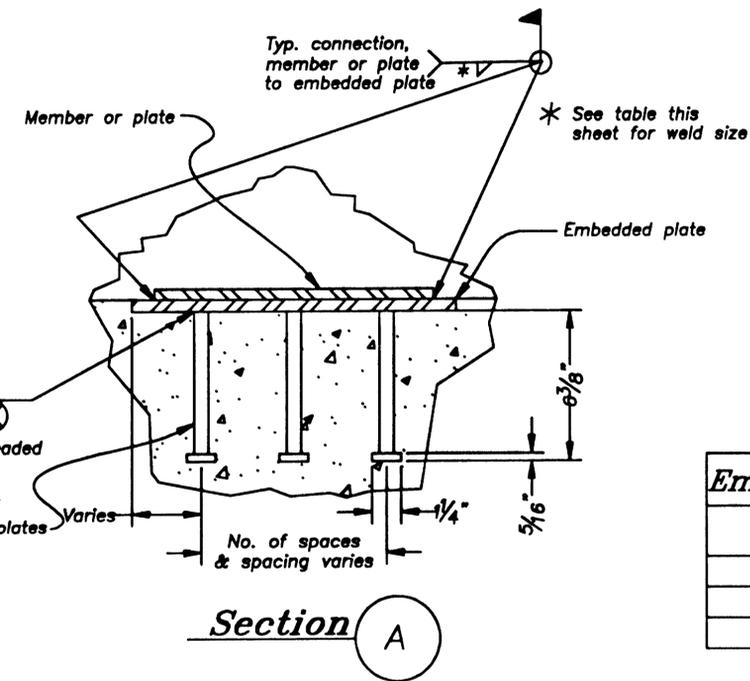
Detail $\frac{1}{40}$



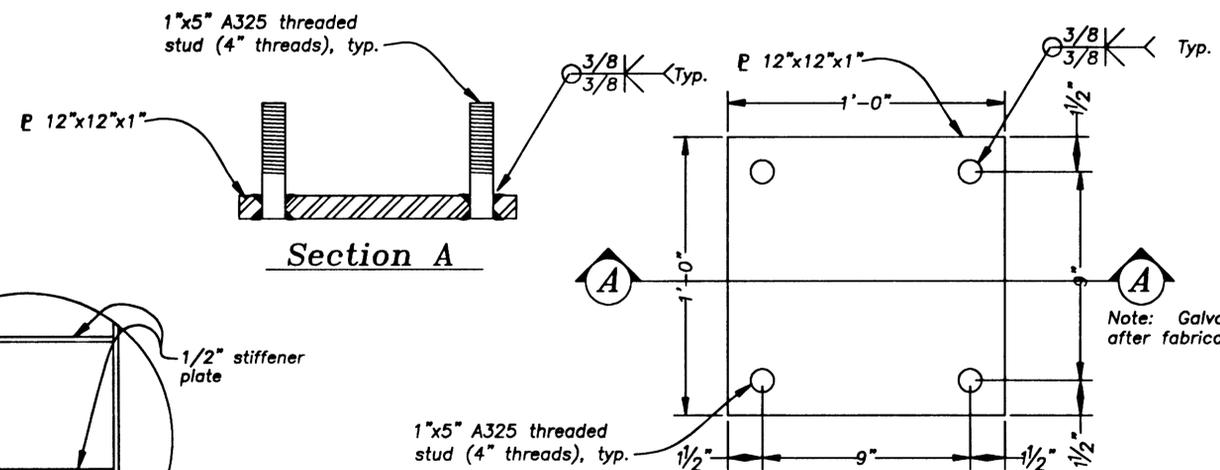
Section $\frac{D}{40}$
(Typ. HP to HP base connection)



Section $\frac{E}{40}$ Typical for all HP stiffeners except omit holes where not required

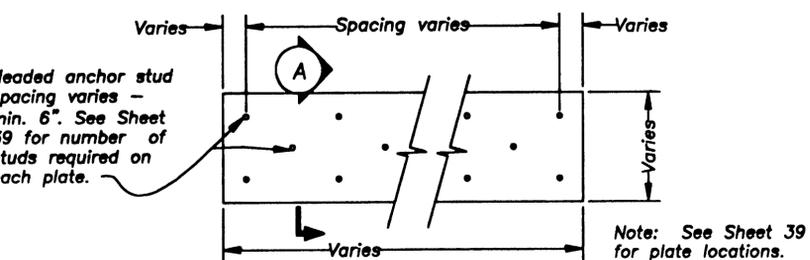


Embedded PL Thickness	Fillet Weld Size
1/2"	1/4"
5/8"	5/16"
1"	1/2"

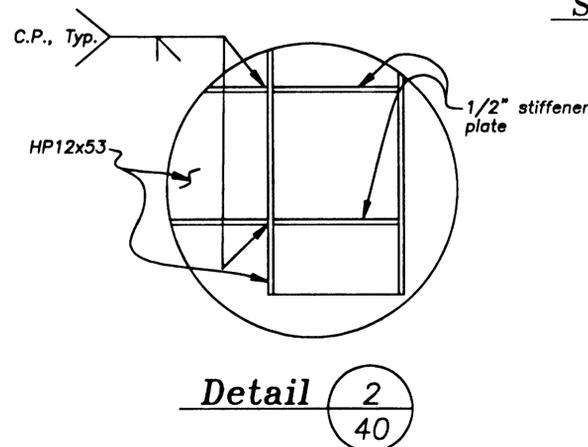


Luminaire Attachment Plate

(8 Required on bridge,
1 required on bridge support float
1 required on ramp support frame)



Typical Embedded Plate



Detail $\frac{2}{40}$

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

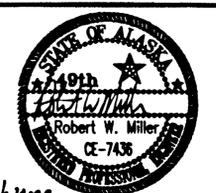
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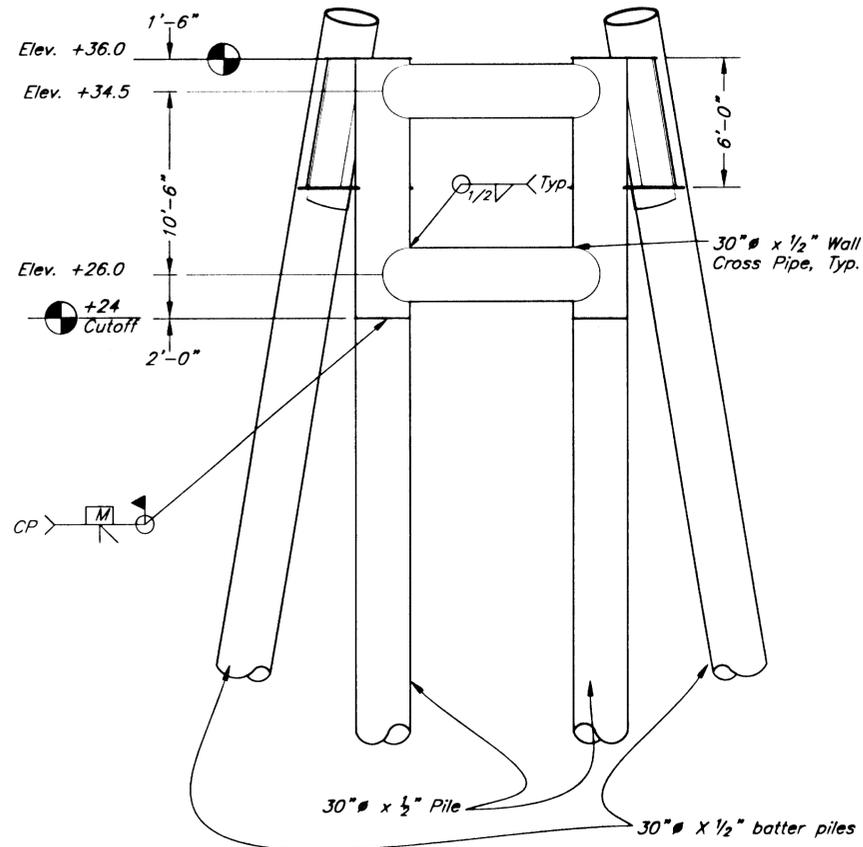
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Project No. MGS - 0003(67) / 67857
BRIDGE FLOAT MISCELLANEOUS DETAILS

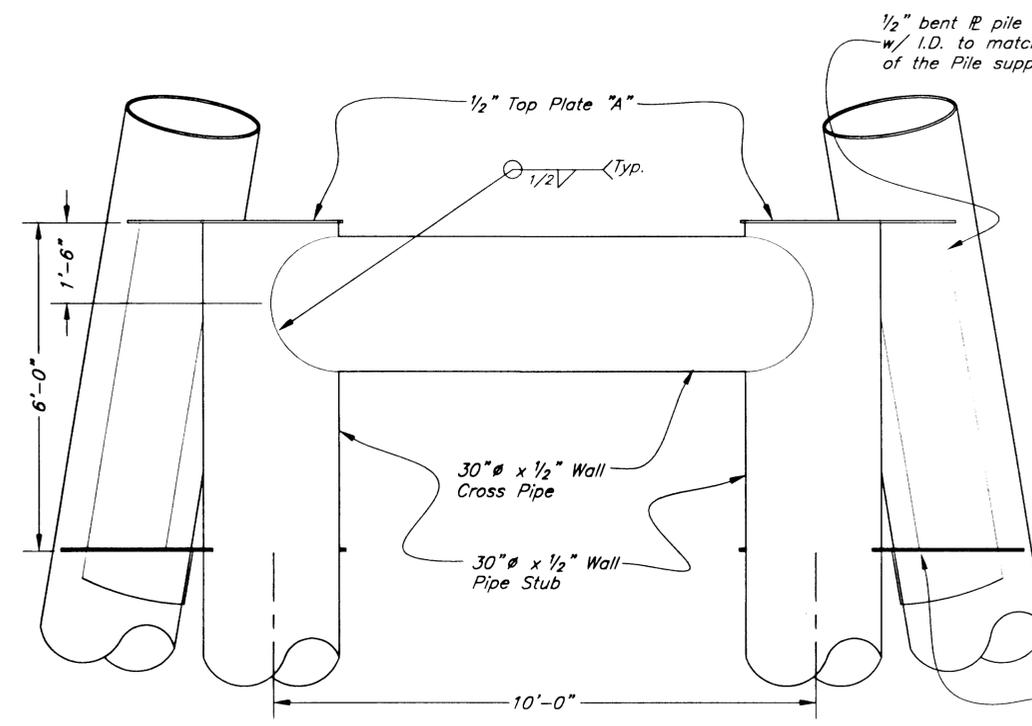
DESIGNED BY: Miller
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CHECKED BY: Savikko

PROJECT NO. 67857
DATE: November 2000
SHEET 42 OF 67

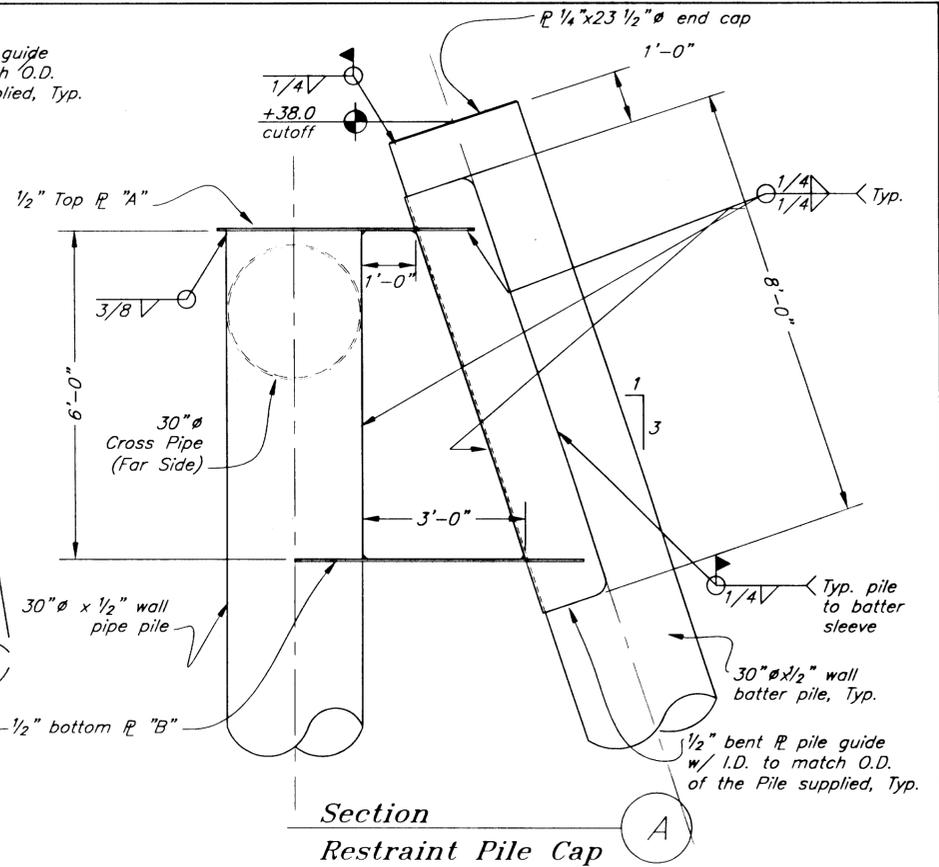




Restraint Pile Structure Elevation

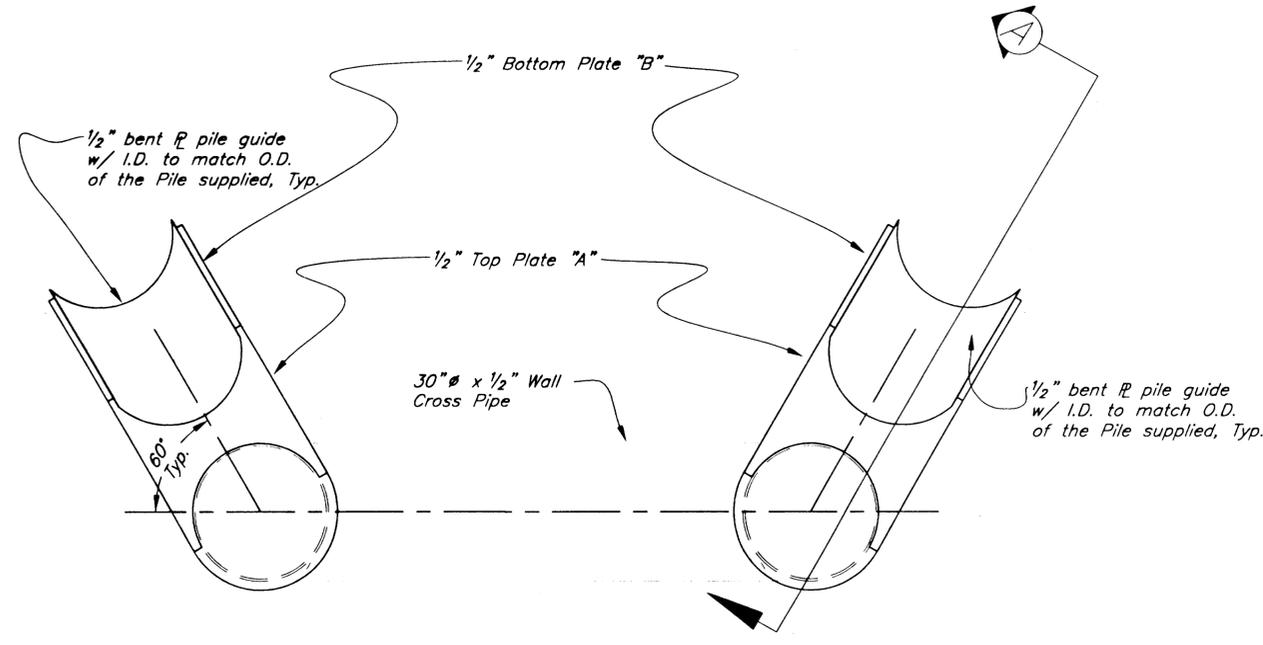


Restraint Pile Cap - Front Elevation (Batter Piles Not Shown)

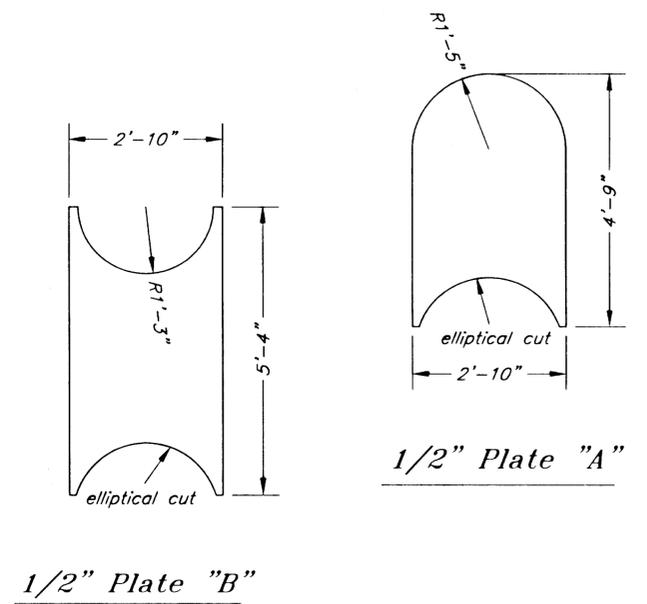


Section Restraint Pile Cap

Note:
See Sheet 75 for prestressed pile anchor details.



Restraint Pile Cap - Plan (Batter Piles not shown)



Restraint Pile Cap Plates

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

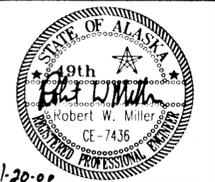
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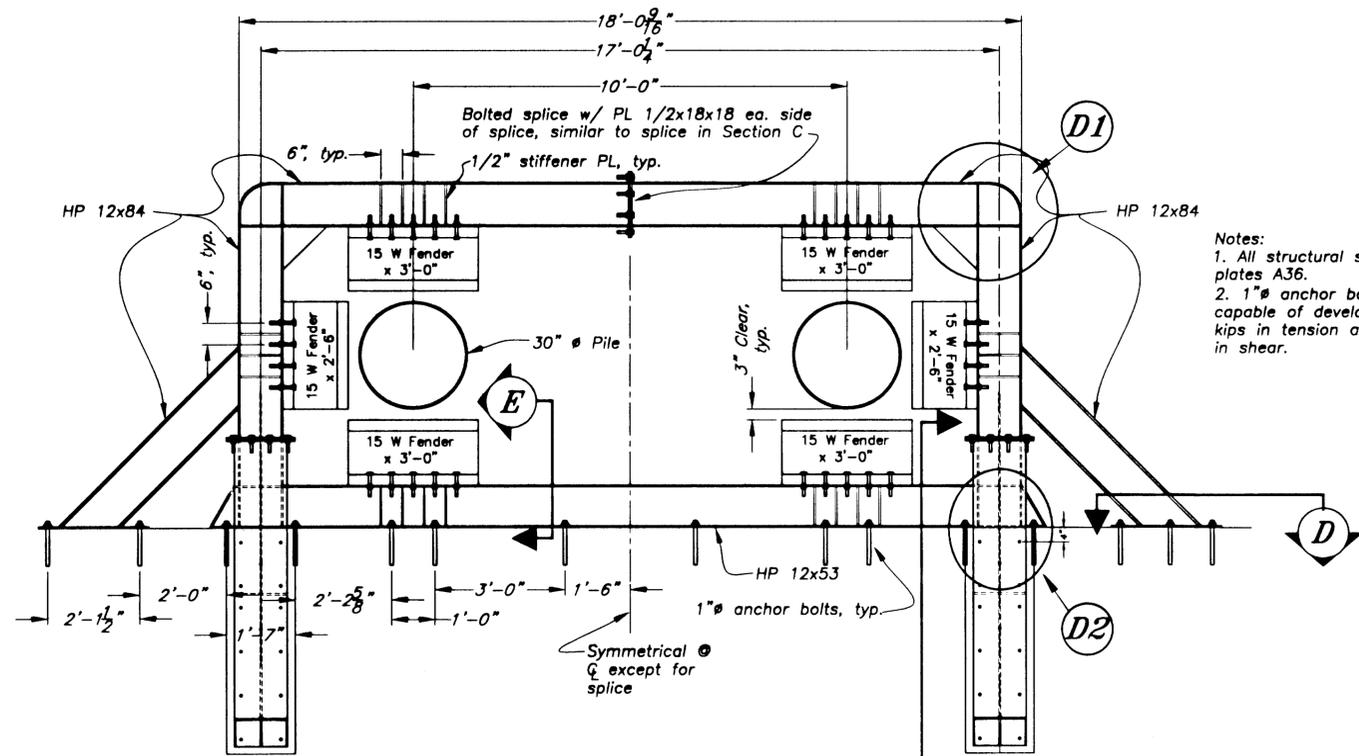
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Project No. MGS - 0003(67) / 67857
BRIDGE FLOAT RESTRAINT PILE STRUCTURE

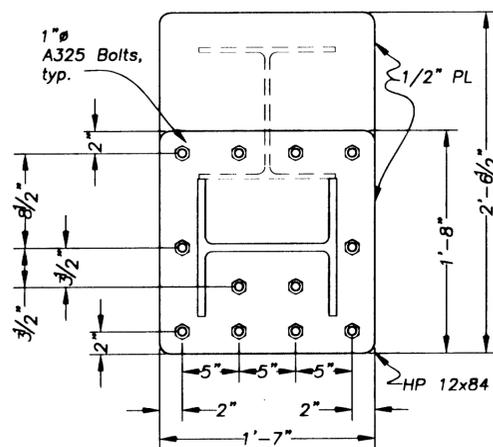
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DRAWN BY: Robertson
CHECKED BY: Savikko

PROJECT NO. 67857
DATE: November 2000
SHEET 43 OF 87

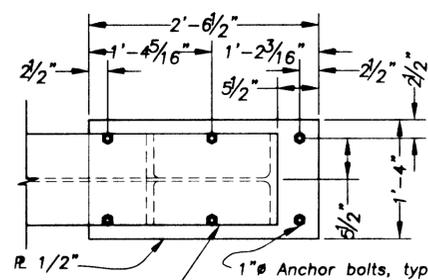




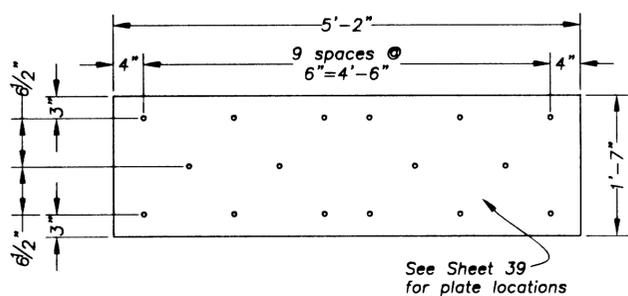
RESTRAINT COLLAR PLAN



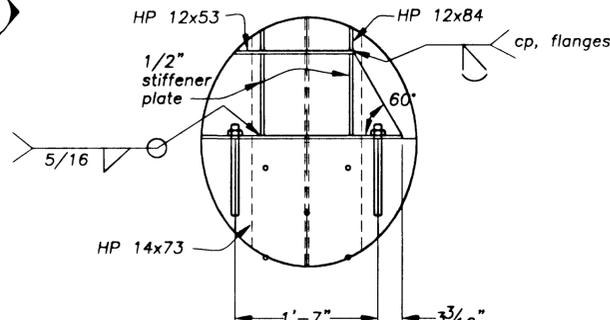
SECTION B



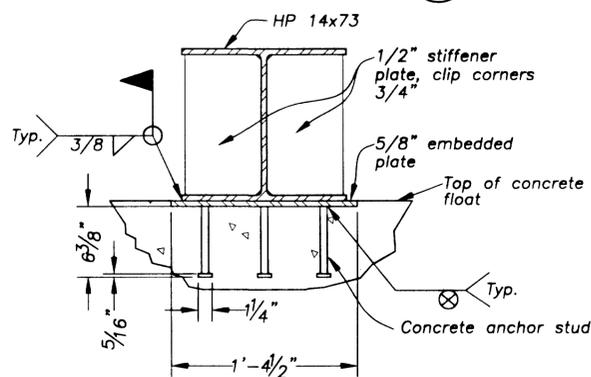
SECTION D



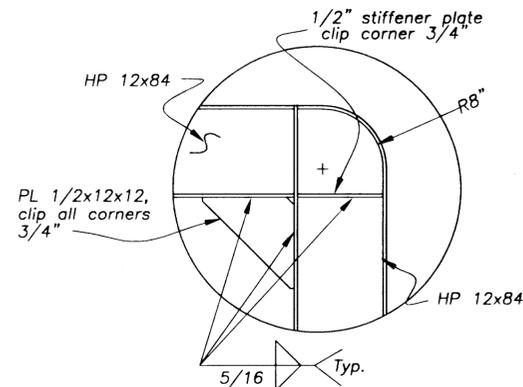
5/8" EMBEDDED PLATE PLAN



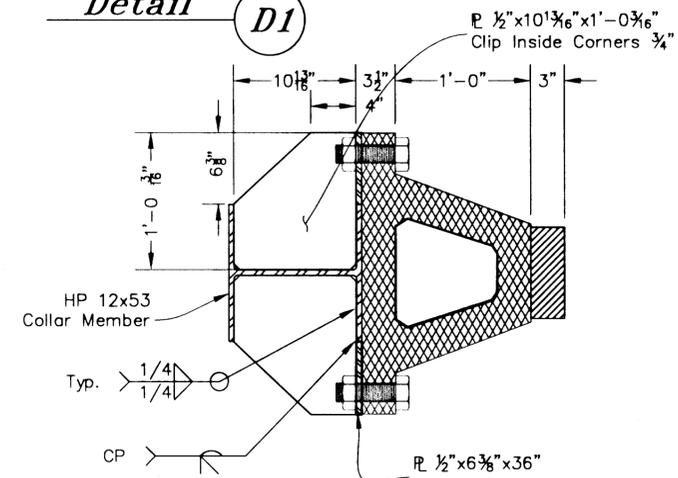
DETAIL D2



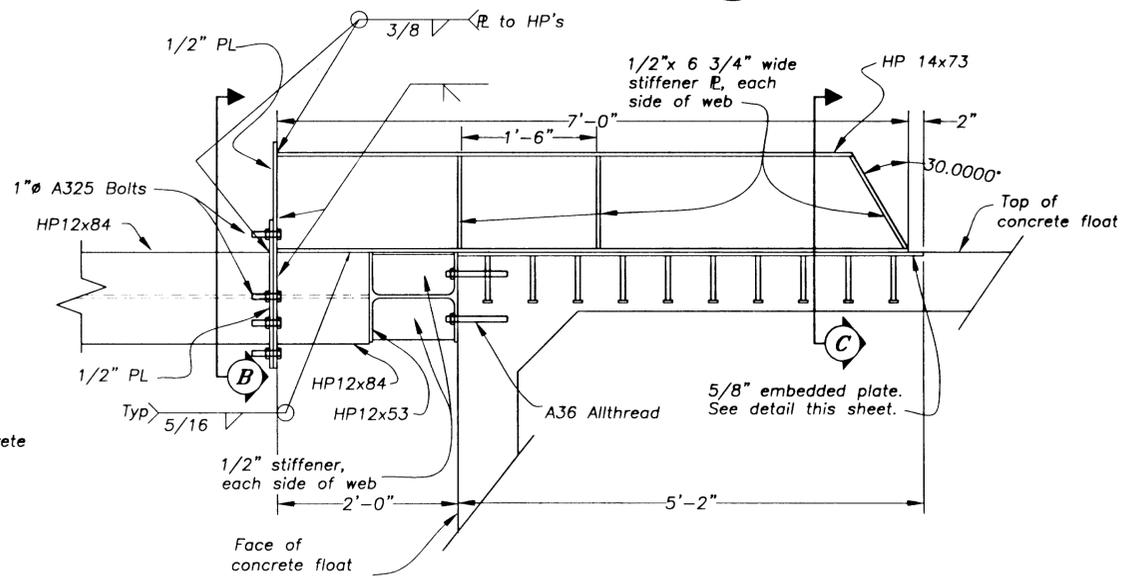
SECTION C



DETAIL D1



SECTION E



SECTION A

Notes:
 1. All structural shapes and plates A36.
 2. 1" anchor bolts shall be capable of developing 12.5 kips in tension and 31 kips in shear.

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

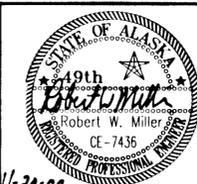
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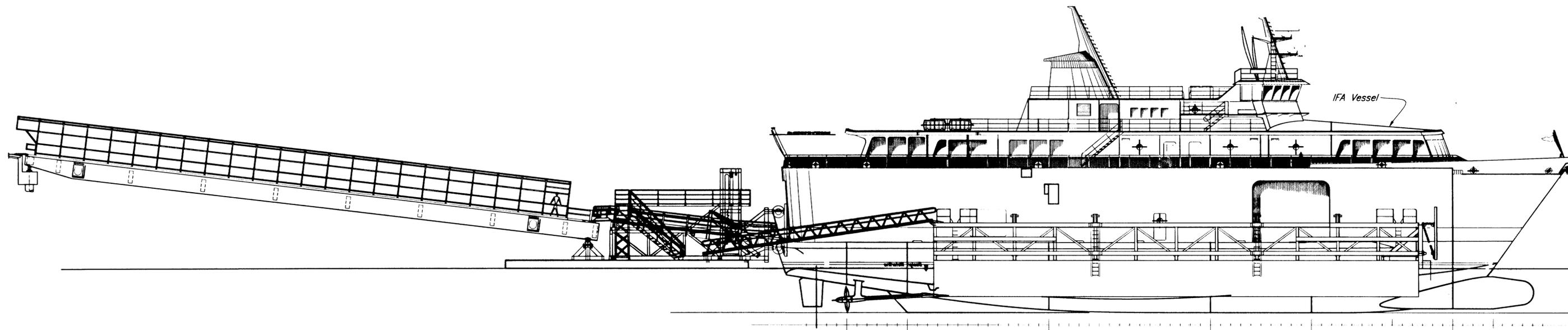
STATE OF ALASKA
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 SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(87) / 67857

BRIDGE FLOAT RESTRAINT COLLAR

DESIGNED BY:	Miller	PROJECT NO.	67857
DRAWN BY:	Fuman	DATE:	November 2000
CHECKED BY:	Savikko	SHEET	44 OF 87





Fender
See Sheets 40-42

ELEVATION

Platform & Stair A
See Sheet 57 and 59

Apron
See Sheet 51-52

Transfer Bridge
See Sheets 28-37

IFA Vessel

Abutment
See Sheet 27

Note: Walkway cover not shown.

Platform & Stair B
See Sheet 58

Bridge Support Float
See Sheet 38-39

Bridge Float
Restraint Collar
See Sheet 44

Bridge Float
Restraint Structure
See Sheet 43

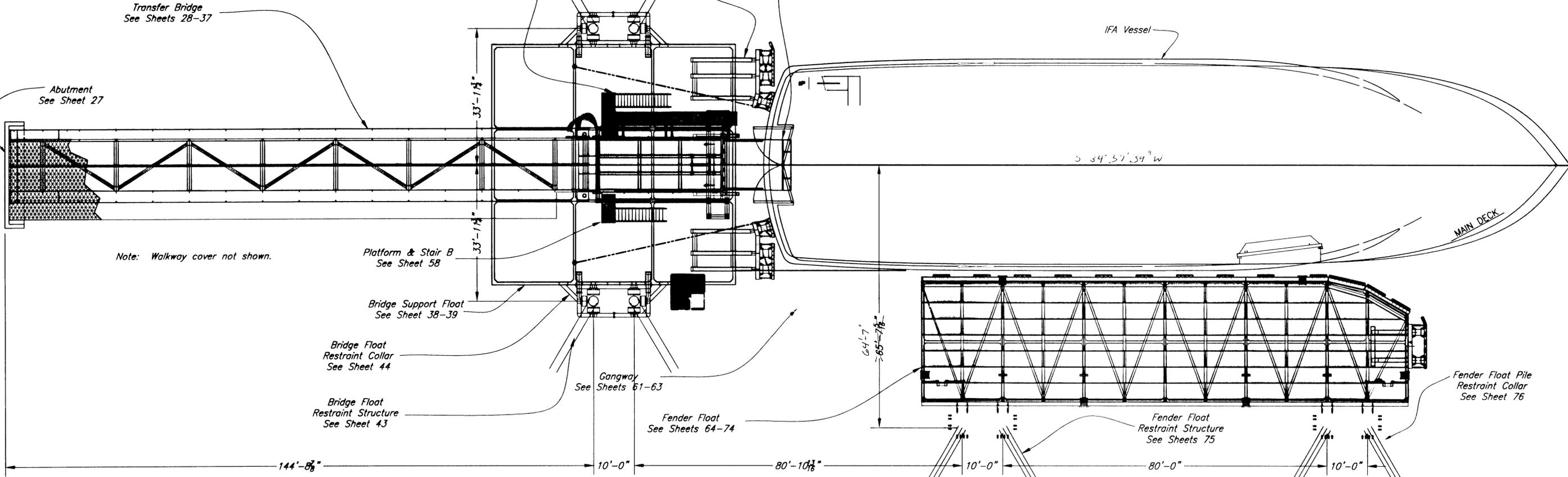
Gangway
See Sheets 61-63

Fender Float
See Sheets 64-74

64'-7"
65'-7 1/8"

Fender Float
Restraint Structure
See Sheets 75

Fender Float Pile
Restraint Collar
See Sheet 76



PLAN

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:
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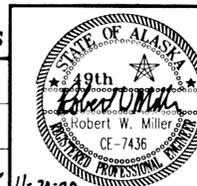
STATE OF ALASKA
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AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(87) / 67857

TRANSFER SYSTEM PLAN & PROFILE

DESIGNED BY: Nelson
DRAWN BY: Nelson
CHECKED BY: Miller

PROJECT NO.
67857
DATE:
November 2000
SHEET 45 OF 87



11-21-00

See Luminaire Base Plate Detail Sheet E-5
For Bolt Hole Layout. Assemble with 1"Ø
bolts as required (far side only).

Ramp Support Frame Tower
See Sheets 47 & 49

Apron Maintenance Chain,
1/2"Ø Chain w/ 2 shackles
each end, size as required,
typical both sides.

Apron,
(stored position)

Ramp,
See Sheets 50 to 55

Apron Lift Beam Assembly
(stored position)

Apron,
See Details
Sheet 56

Apron Lift Beam Assembly
See Details Sheet 55

Ramp Hanger Bar And Lock-Off Pin
See Details Sheet 53

1/2" Thick Duro 50
Rubber Bridge Bearing



Luminaire Attachment
Plate (far side only)
See Sheet 42

Ramp Lock-Off Actuator
& Torque Tube Assembly.
See Sheets 53 & 54

Bridge Support Float
See Sheets 38 to 44

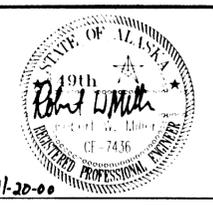
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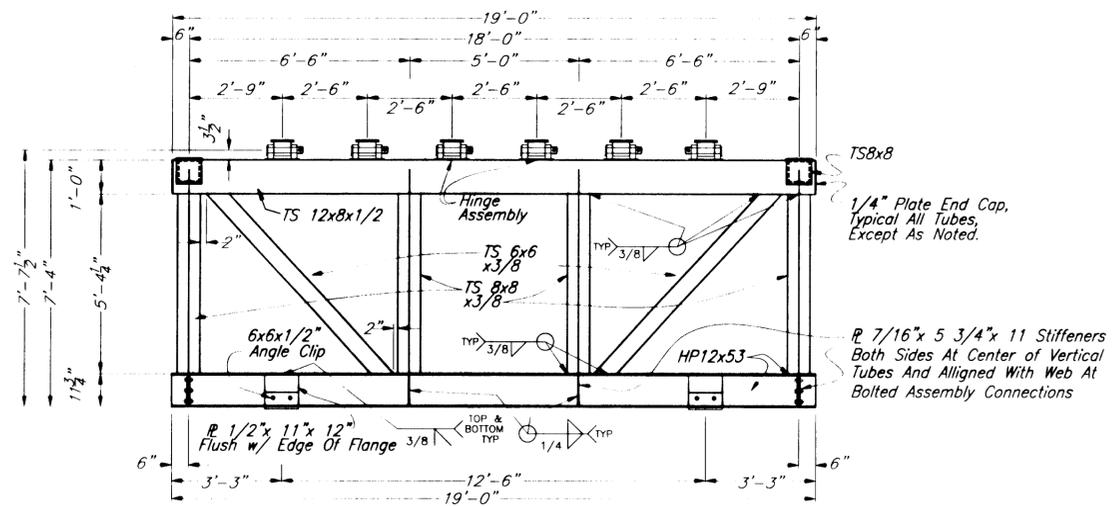
STATE OF ALASKA
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SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
TRANSFER RAMP & APRON LAYOUT

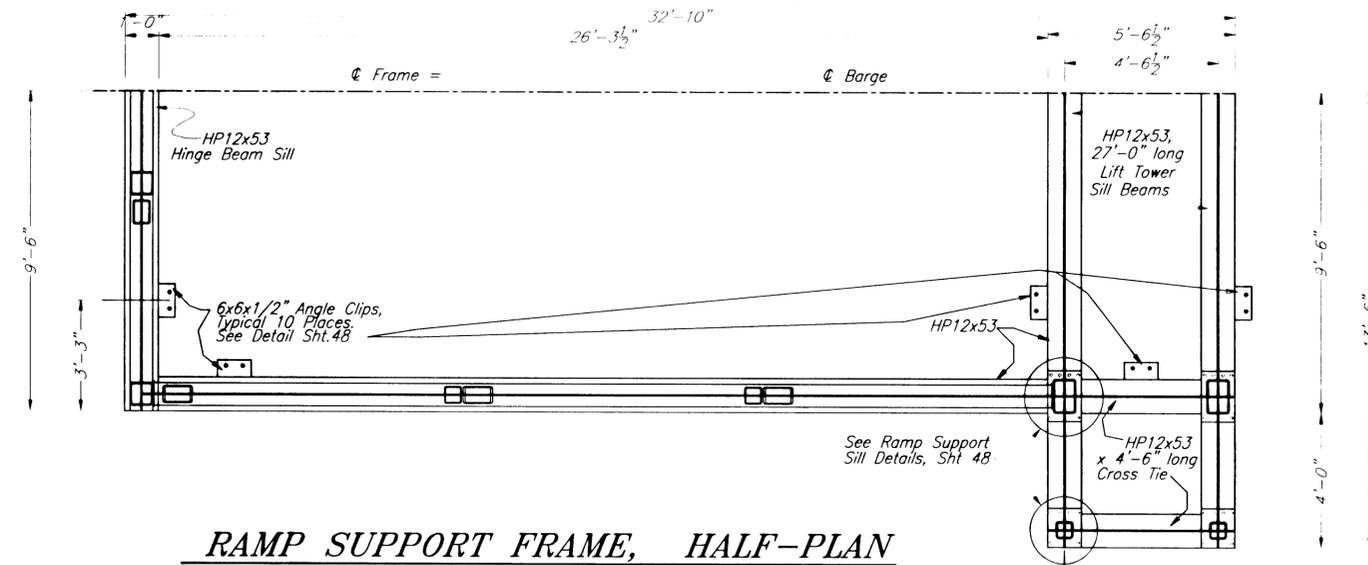
DESIGNED BY: Nelson	PROJECT NO. 67857
DRAWN BY: Nelson	DATE: November 2000
CHECKED BY: Miller	SHEET 46 OF 87



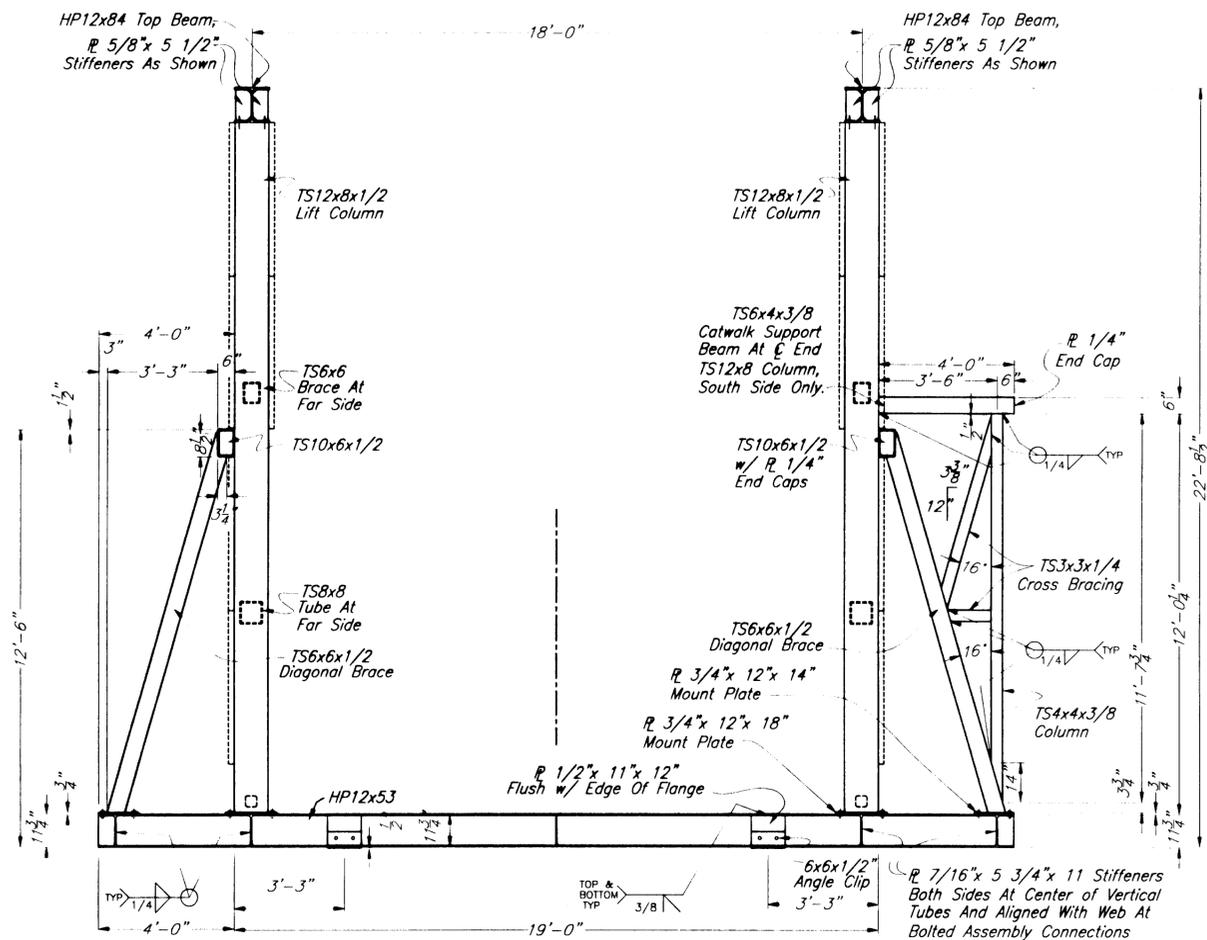
11-20-00



SECTION A

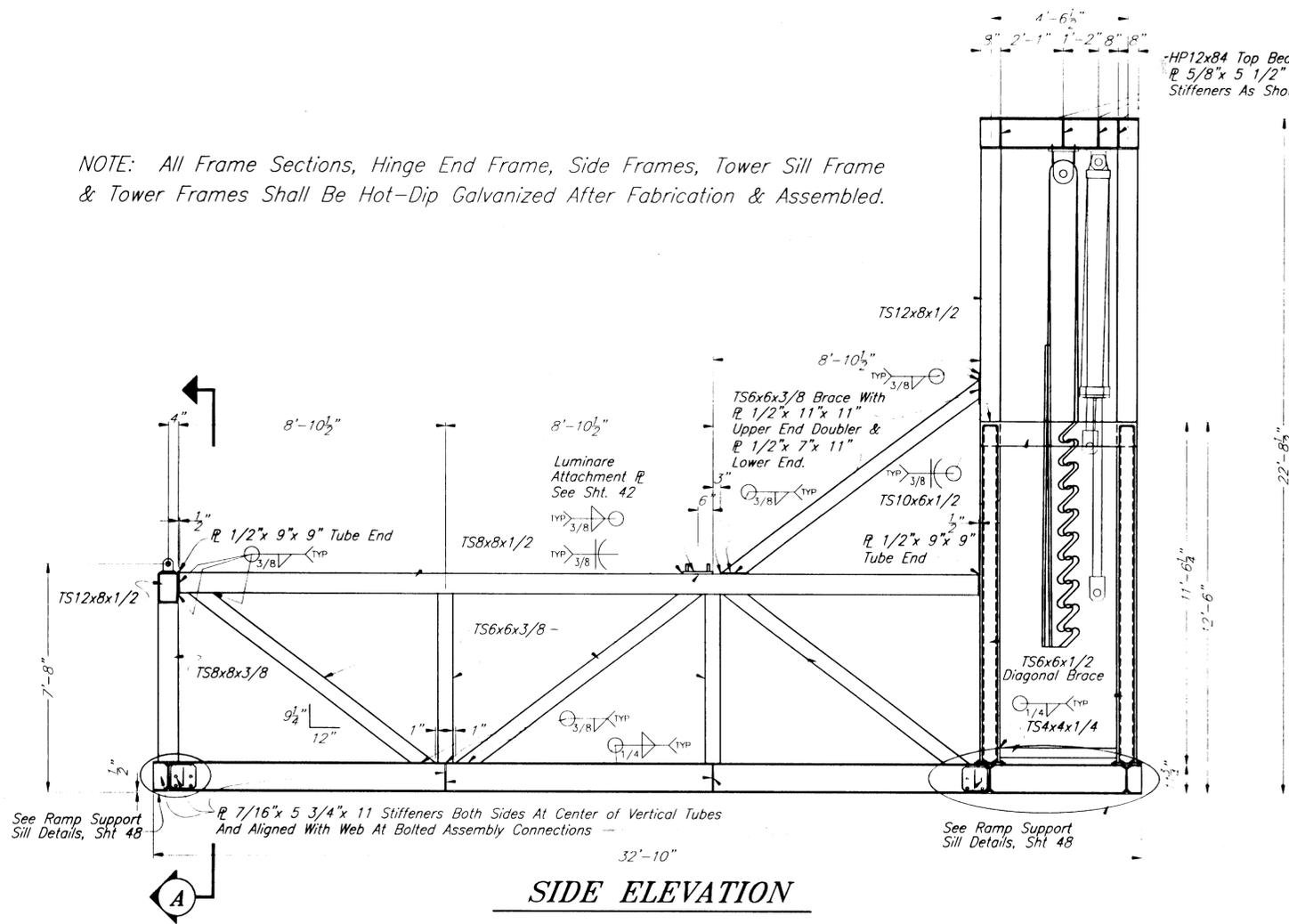


RAMP SUPPORT FRAME, HALF-PLAN



FRONT ELEVATION

NOTE: All Frame Sections, Hinge End Frame, Side Frames, Tower Sill Frame & Tower Frames Shall Be Hot-Dip Galvanized After Fabrication & Assembled.



SIDE ELEVATION

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

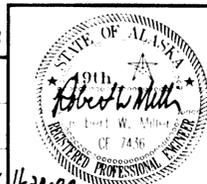
STATE OF ALASKA
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 AND PUBLIC FACILITIES
 SOUTHEAST REGION

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 KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(67) / 67857

ALASKA

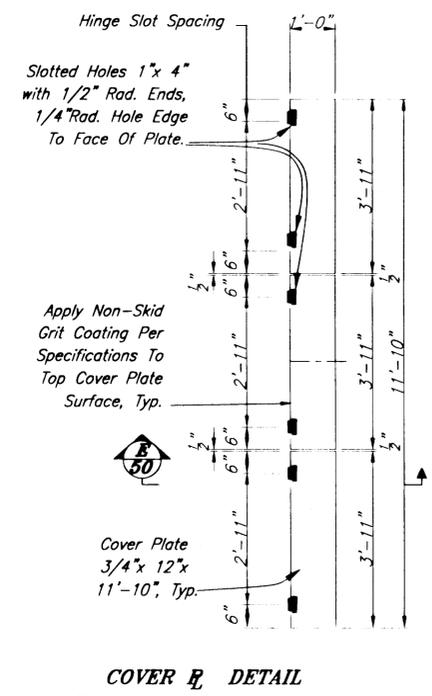
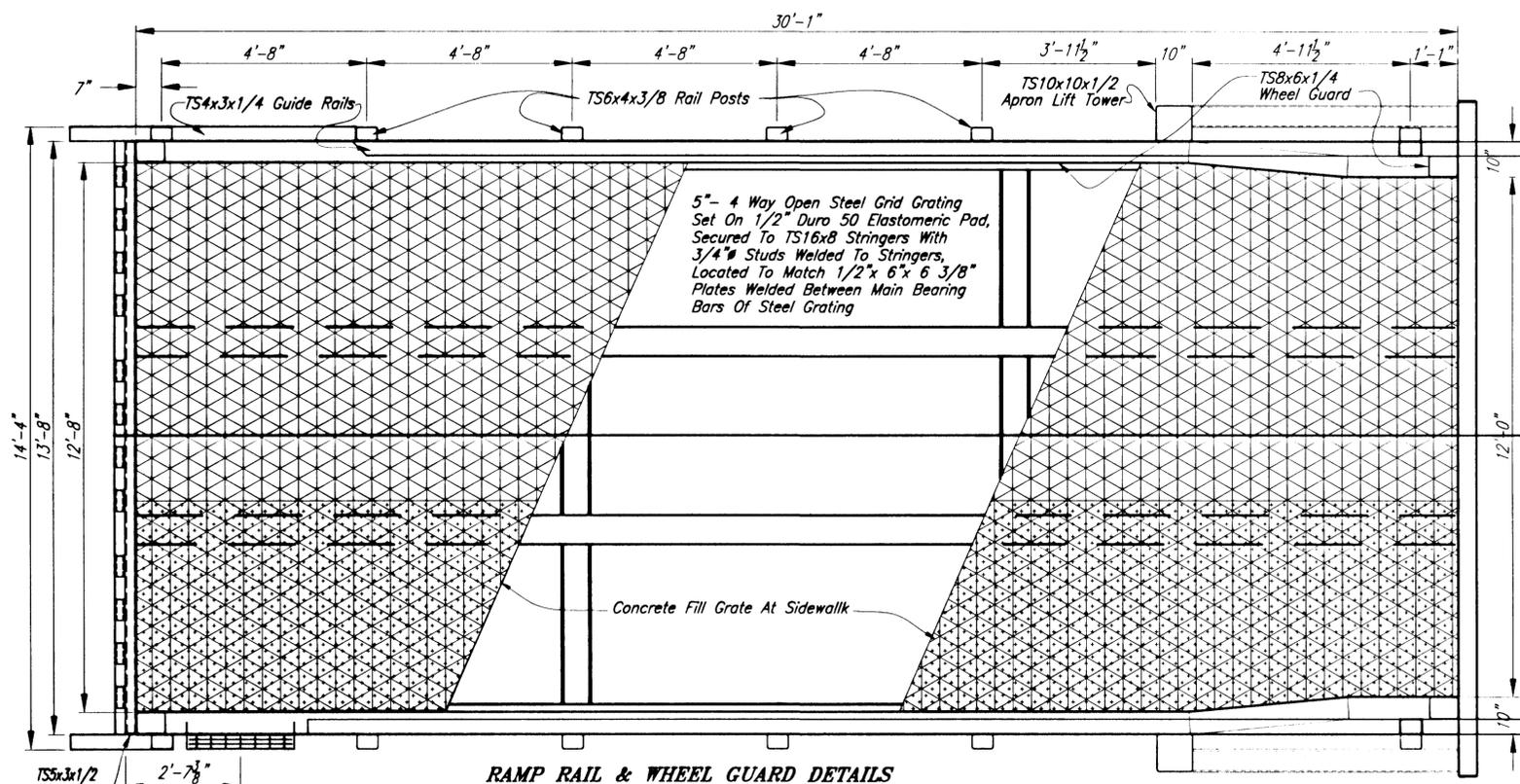
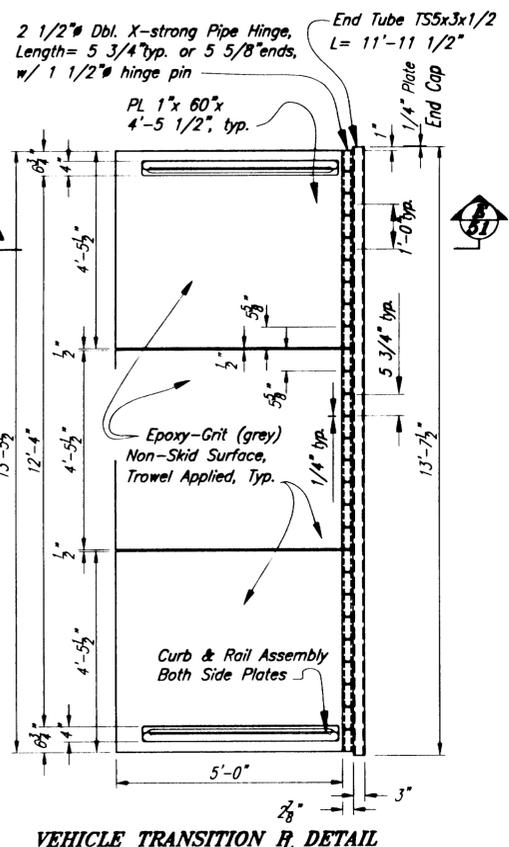
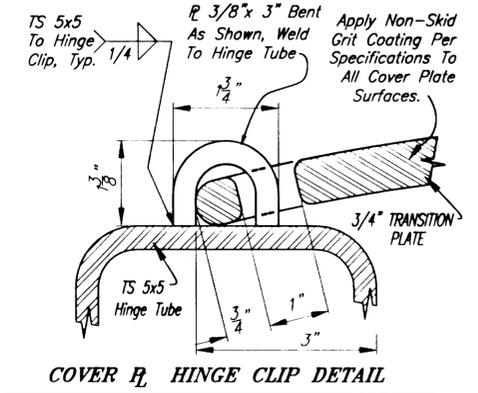
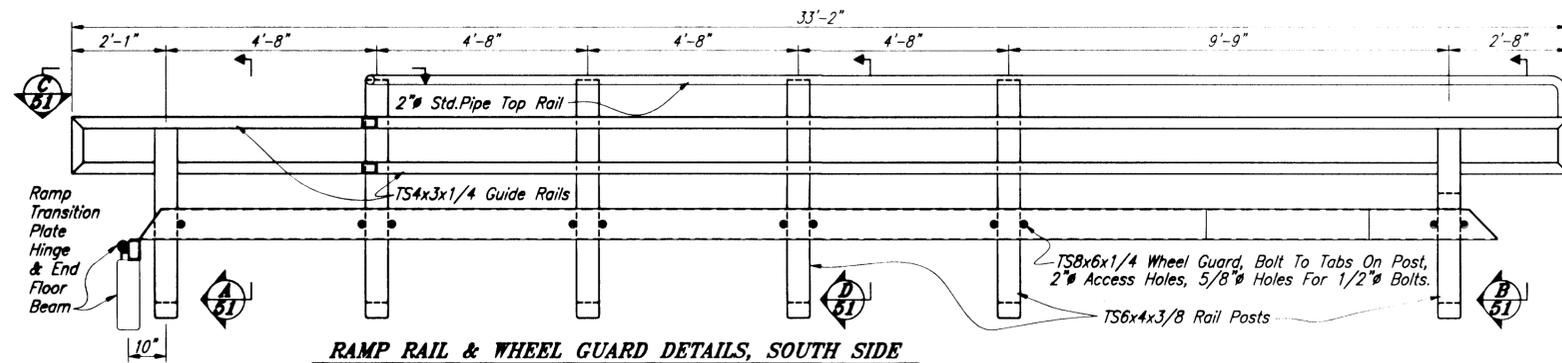
DESIGNED BY: Nelson
 DRAWN BY: Nelson
 CHECKED BY: Miller

PROJECT NO. 67857
 DATE: November 2000
 SHEET 47 OF 87

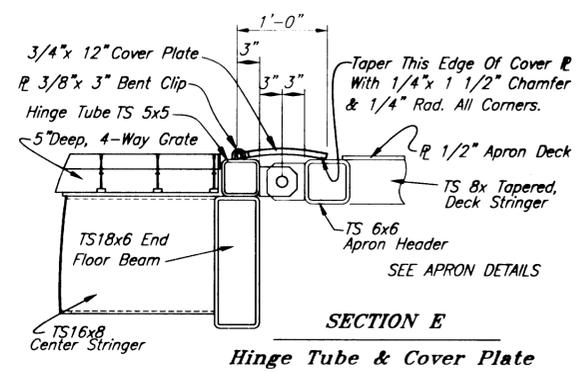
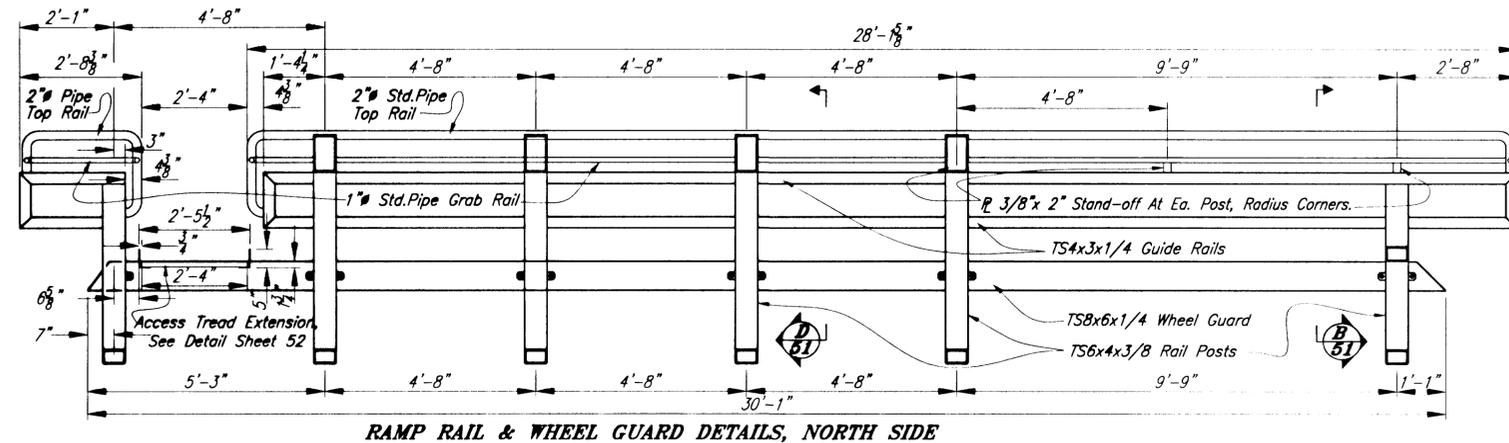
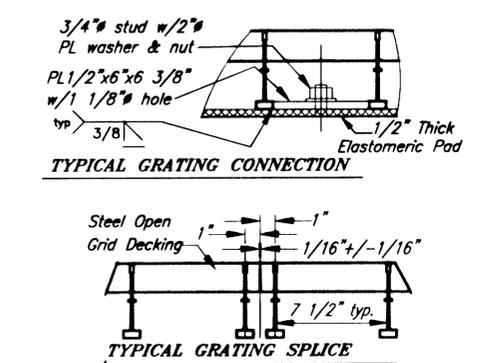


RAMP FRAME

11-20-00



NOTE: All Grating, Wheel Guards, Rails, Posts and Transition Plates Shall Be Hot-Dip Galvanized After Fabrication.



NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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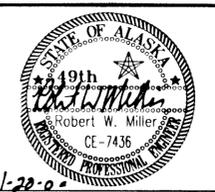
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AND PUBLIC FACILITIES
SOUTHEAST REGION

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KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857

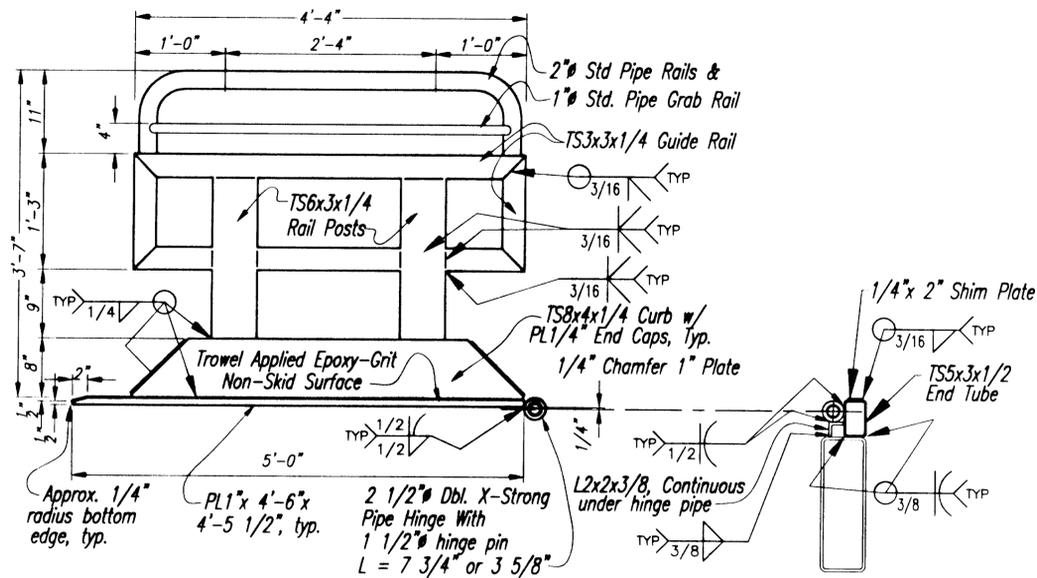
ALASKA

DESIGNED BY: Nelson
DRAWN BY: Nelson
CHECKED BY: Miller

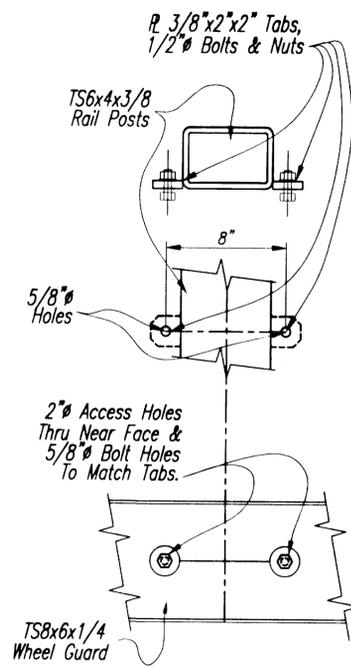
PROJECT NO. 67857
DATE: November 2000
SHEET 51 OF 87



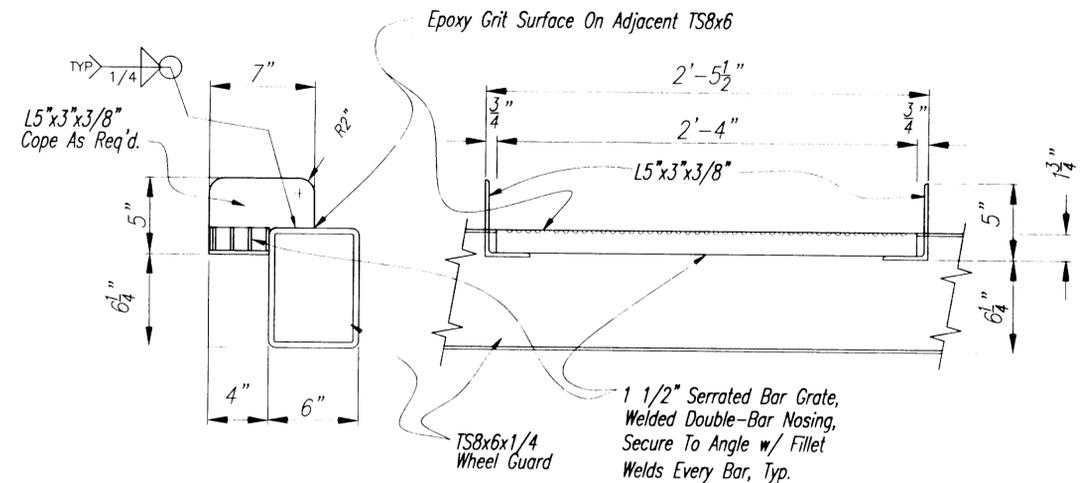
RAMP DETAILS



VEHICLE TRANSITION E DETAIL @ SECTION E 50

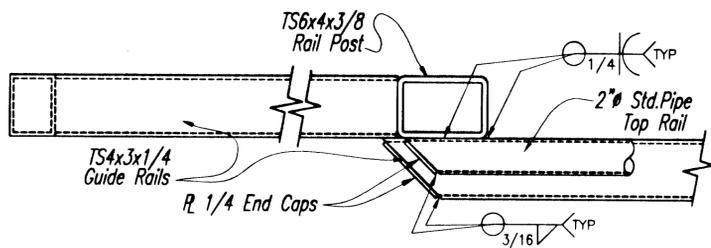


WHEEL GUARD BOLT DETAIL

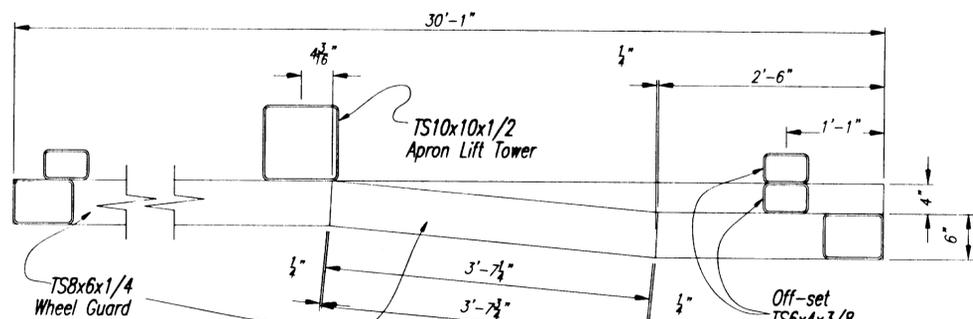


ACCESS TREAD EXTENSION DETAIL

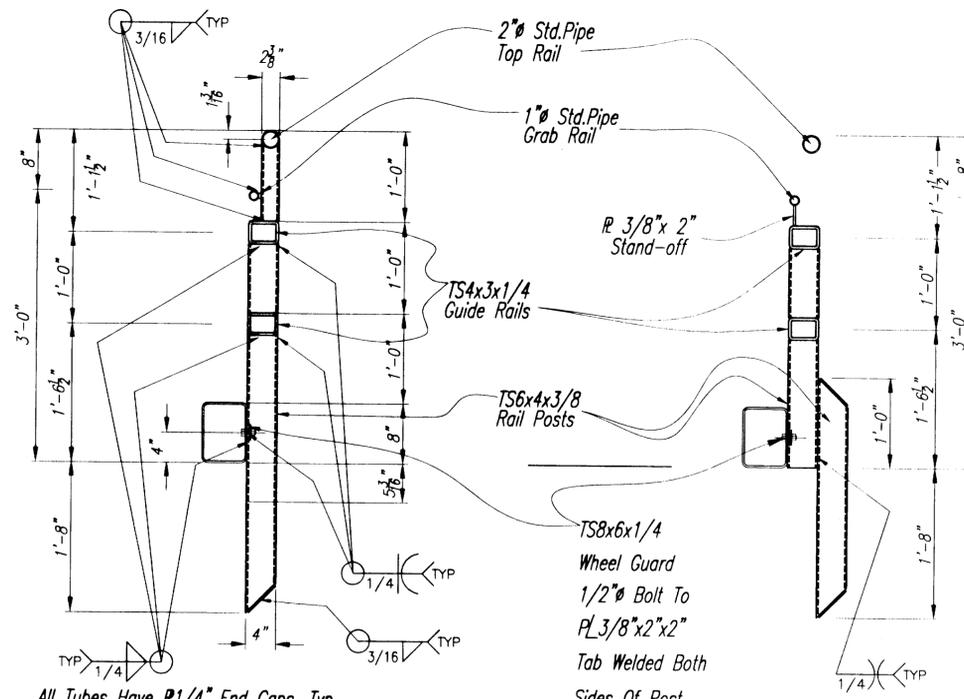
NOTE: All Grating, Wheel Guards, Rails, Posts and Transition Plates Shall Be Hot-Dip Galvanized After Fabrication.



SECTION C 50

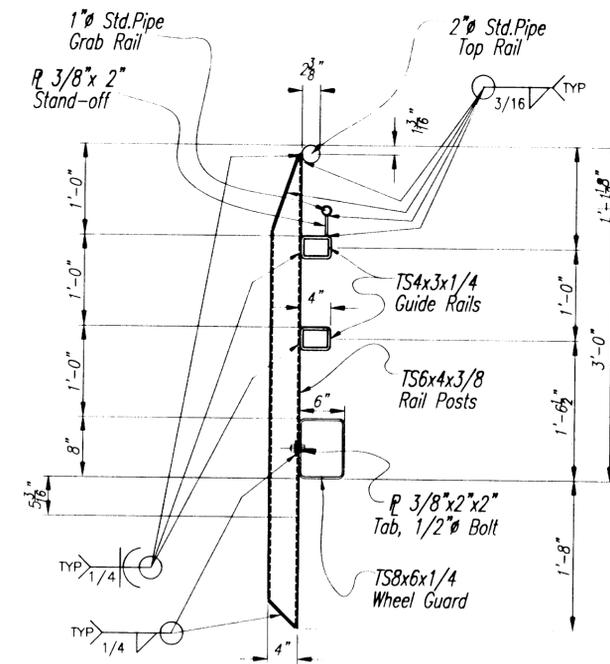


WHEEL GUARD OFFSET DETAIL



SECTION A 50

SECTION B 50
See Wheel Guard



All Tubes Have R 1/4" End Caps, Typ.

SECTION D 50

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SOUTHEAST REGION

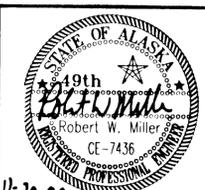
KETCHIKAN

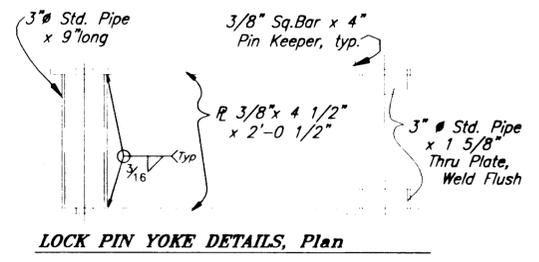
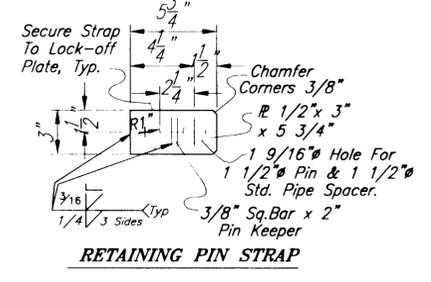
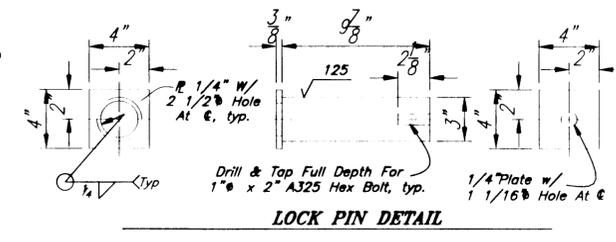
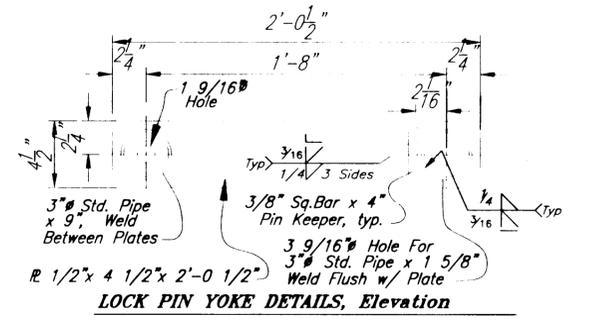
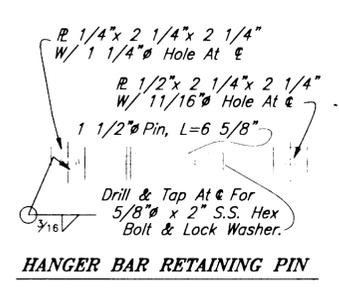
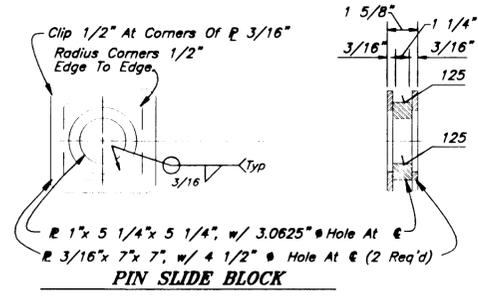
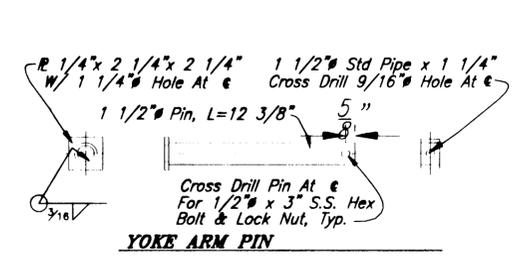
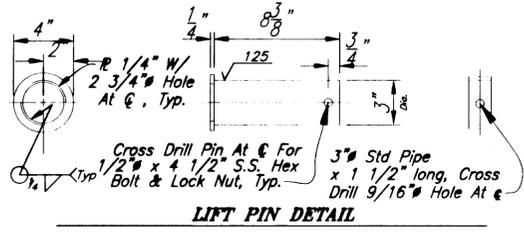
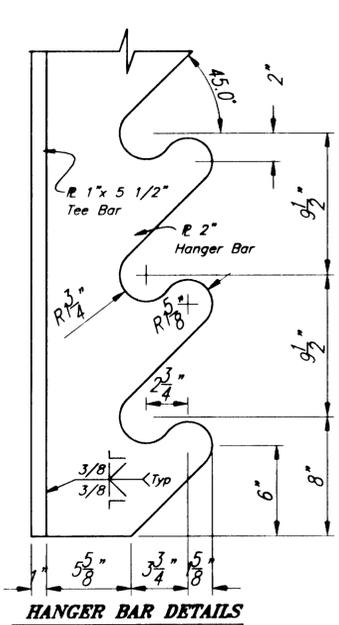
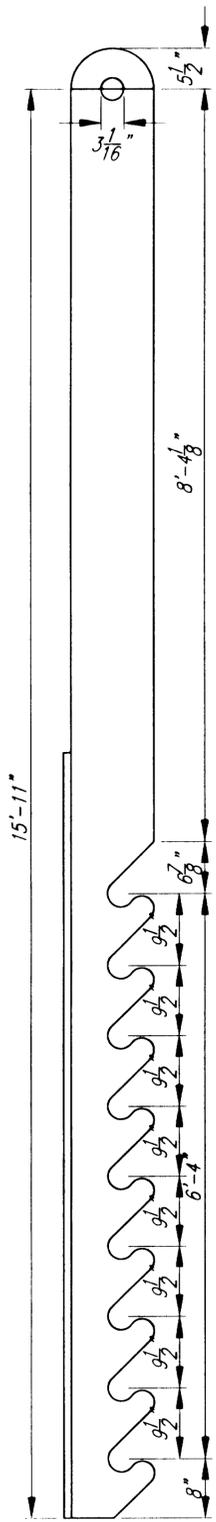
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67857

ALASKA

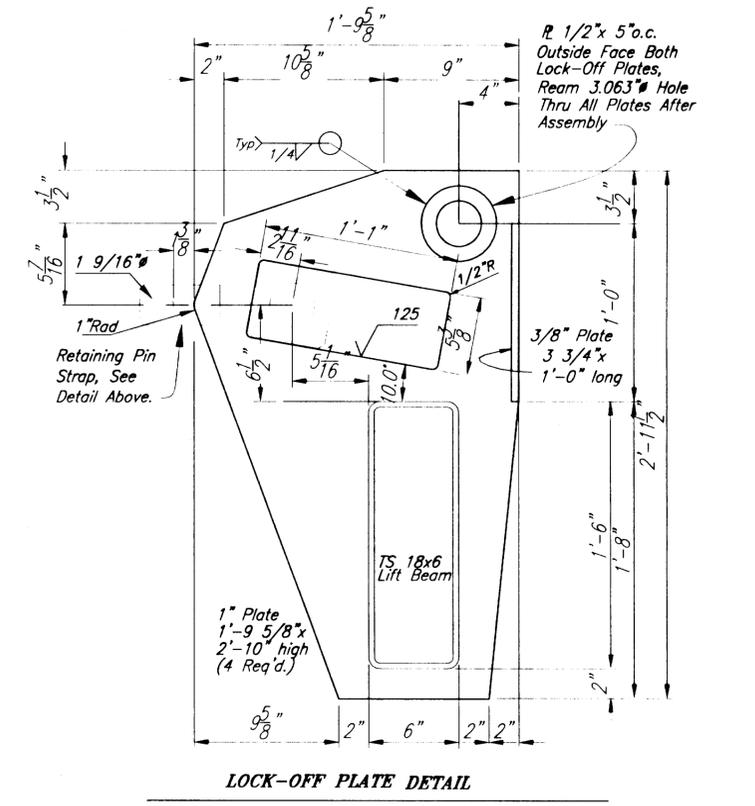
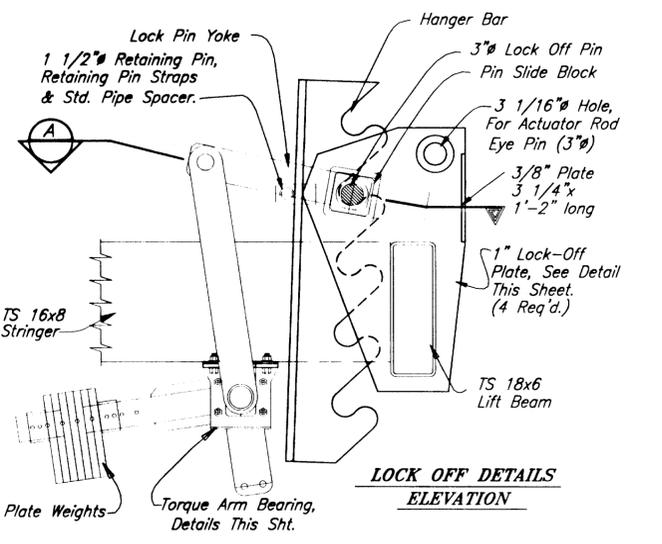
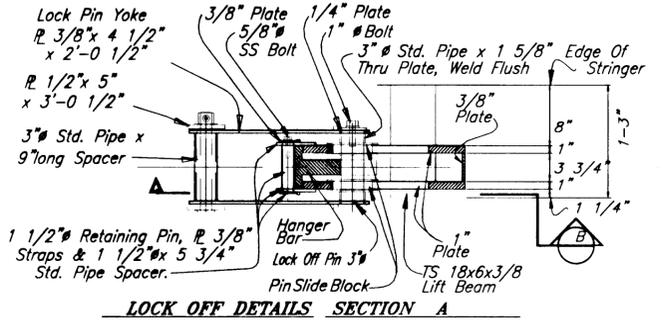
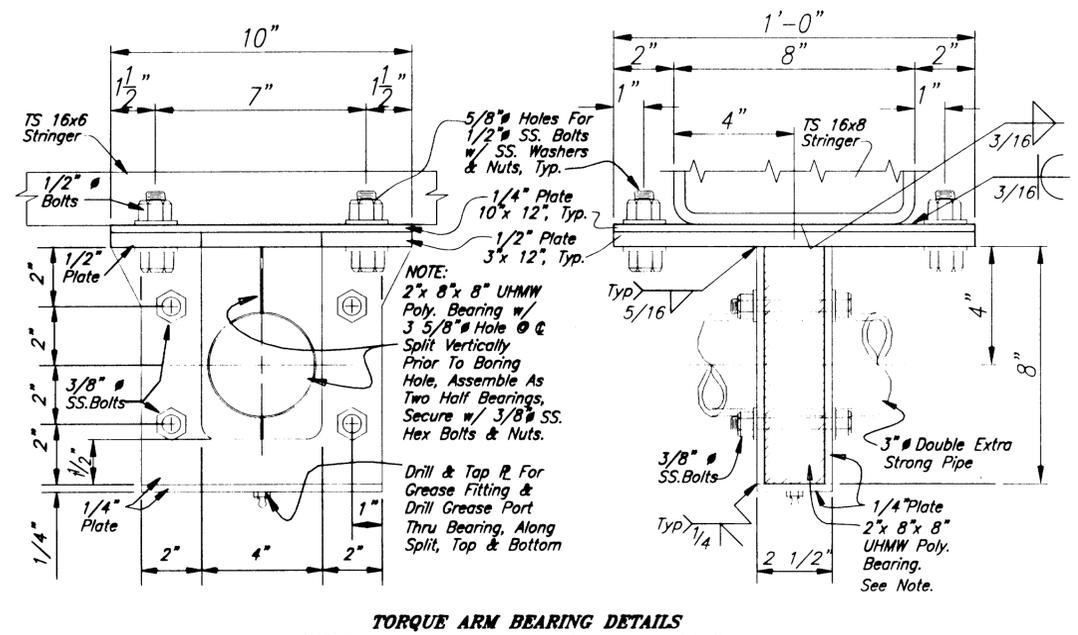
RAMP DETAILS

DESIGNED BY: Nelson	PROJECT NO. 67857
DRAWN BY: Nelson	DATE: November 2000
CHECKED BY: Miller	SHEET 52 OF 87





NOTE: All Lock System Members Shall Be Hot-Dip Galvanized After Fabrication.



NOTE: 2" x 8" x 8" UHMW Poly. Bearing w/ 3 5/8" Hole @ C Split Vertically Prior To Boring Hole, Assemble As Two Half Bearings, Secure w/ 3/8" SS. Hex Bolts & Nuts. Drill & Tap R For Grease Fitting & Drill Grease Port Thru Bearing, Along Split, Top & Bottom

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

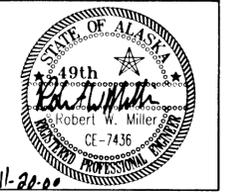
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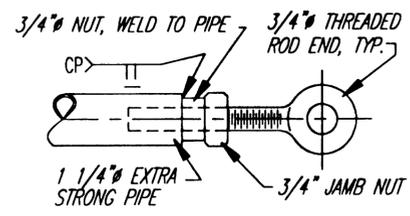
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KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
RAMP HANGER BAR AND LOCK-OFF DETAILS

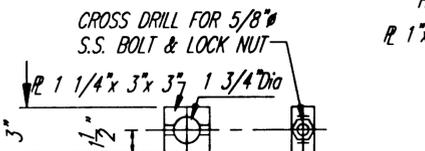
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DRAWN BY: Nelson
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 53 OF 87

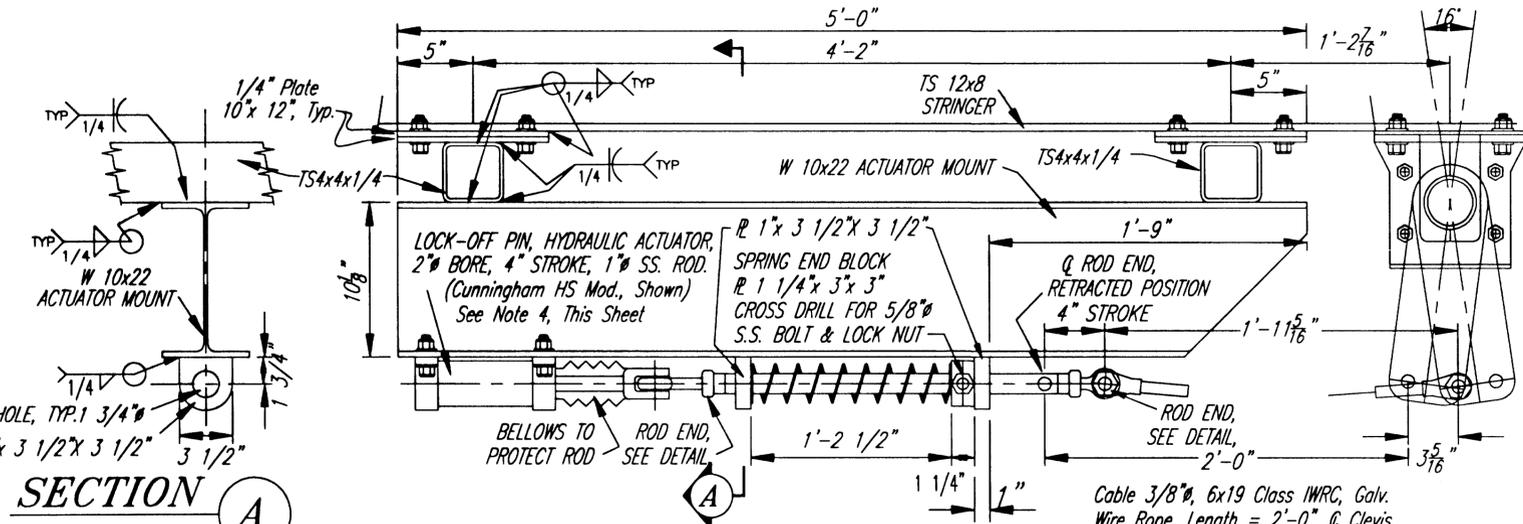




**DETAIL
ROD END**



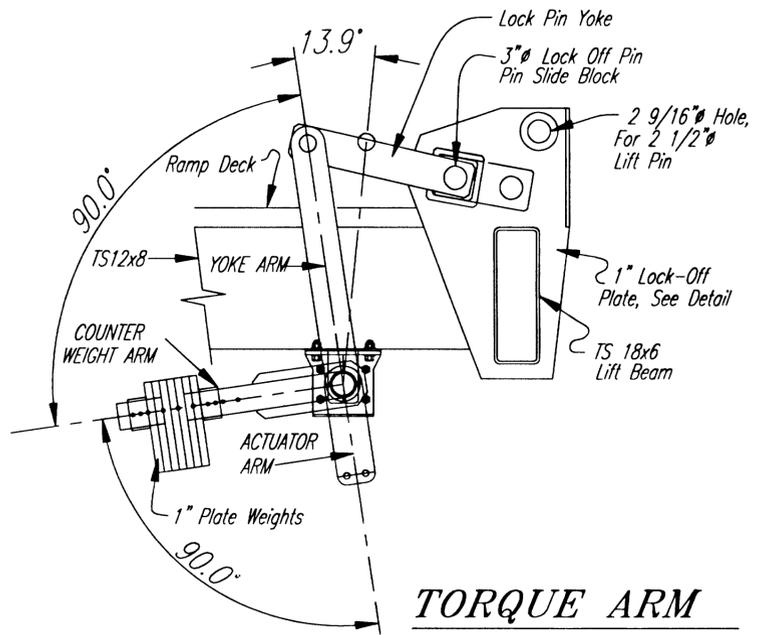
SPRING END BLOCK



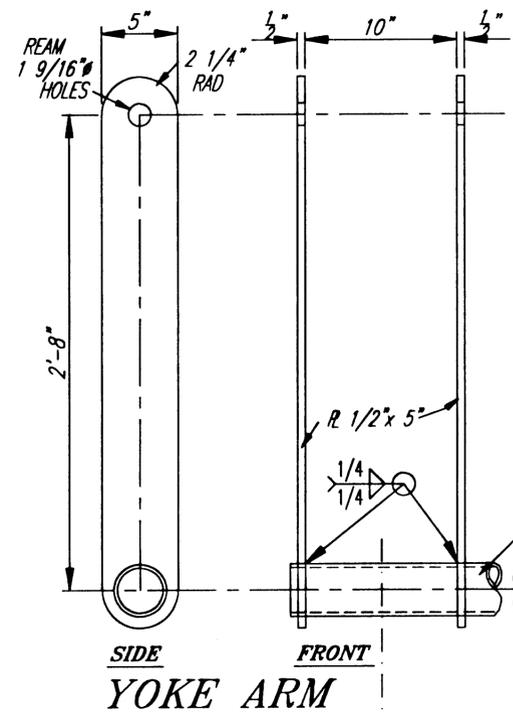
LOCK ACTUATOR DETAILS

NOTE: All Lock System Members Shall Be Hot-Dip Galvanized After Fabrication.

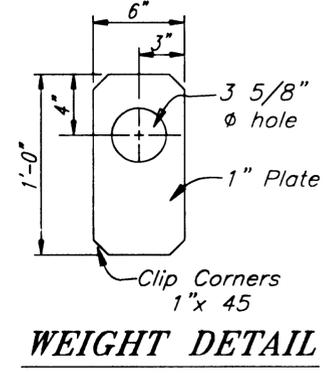
- NOTES:**
1. Approx. Weight Of Intermediate Ramp = 25,000 lbs.
 2. Compression Spring: 1 13/16" Rod Size, 15" Free length, 10 1/4" Max. Solid Height, 4 3/4" Min. Deflection, Approx. Compression 160 lb/in., Install with 1/2" Precompression.
 3. Close all open ended pipe & tube with 1/4" plate & seal weld.
 4. Dimensions based on Cunningham Hydraulic Actuator. Size may vary for actuator supplied, locate mounting bolts as required. Submittals & shop dwg's req'd.
 5. Cable shall be 3/8"Ø, 6x19 class, lang lay, IWRC, Galvanized and Greased.



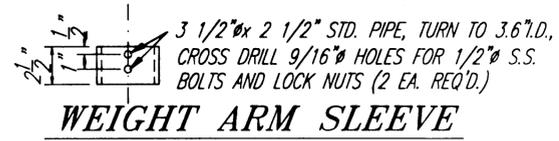
**TORQUE ARM
POSITION DETAILS**



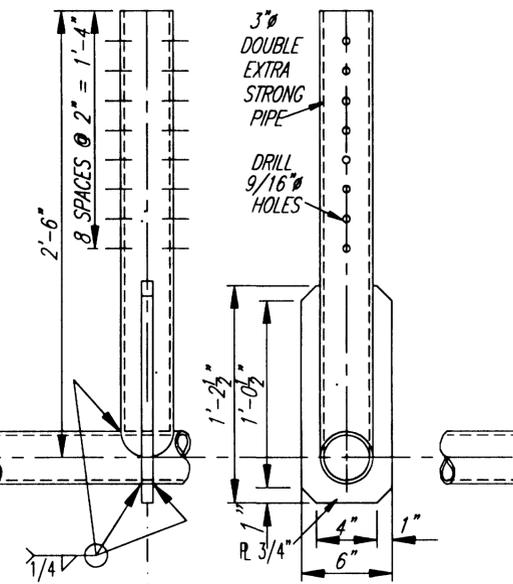
**SIDE
FRONT
YOKE ARM**



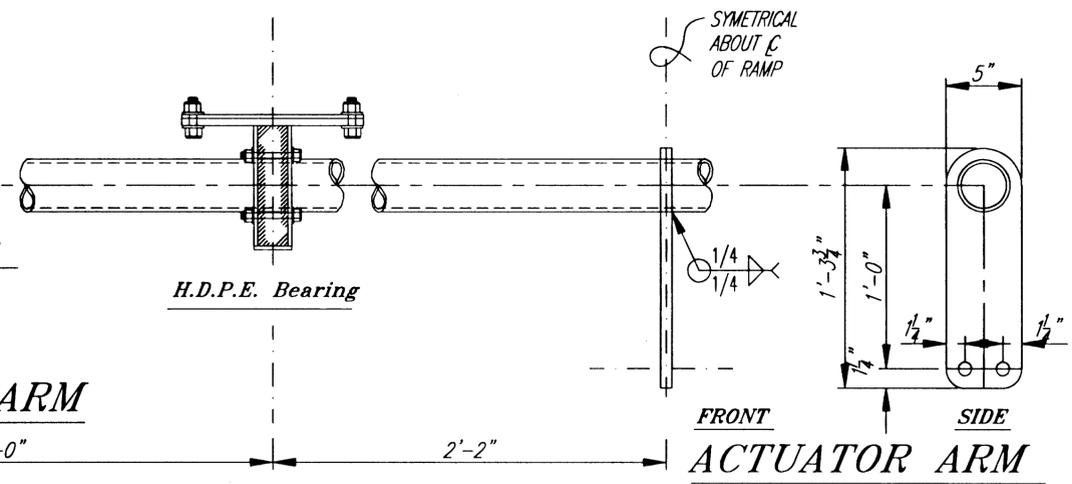
WEIGHT DETAIL



WEIGHT ARM SLEEVE



**FRONT
SIDE
COUNTER WEIGHT ARM**



**FRONT
SIDE
ACTUATOR ARM**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

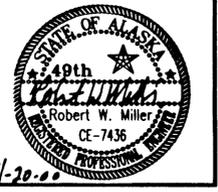
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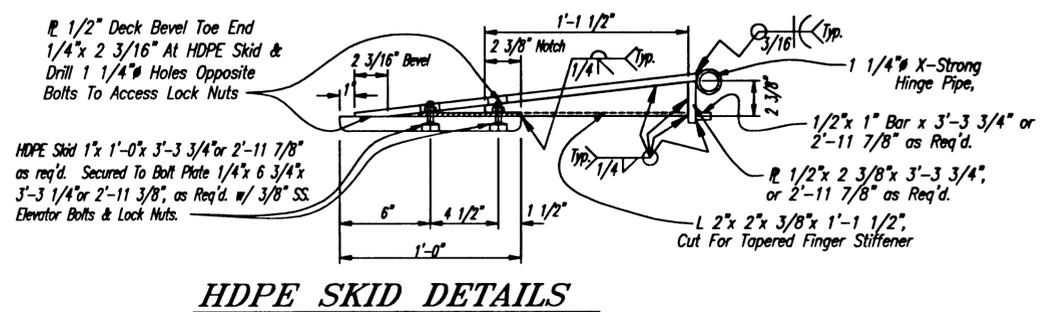
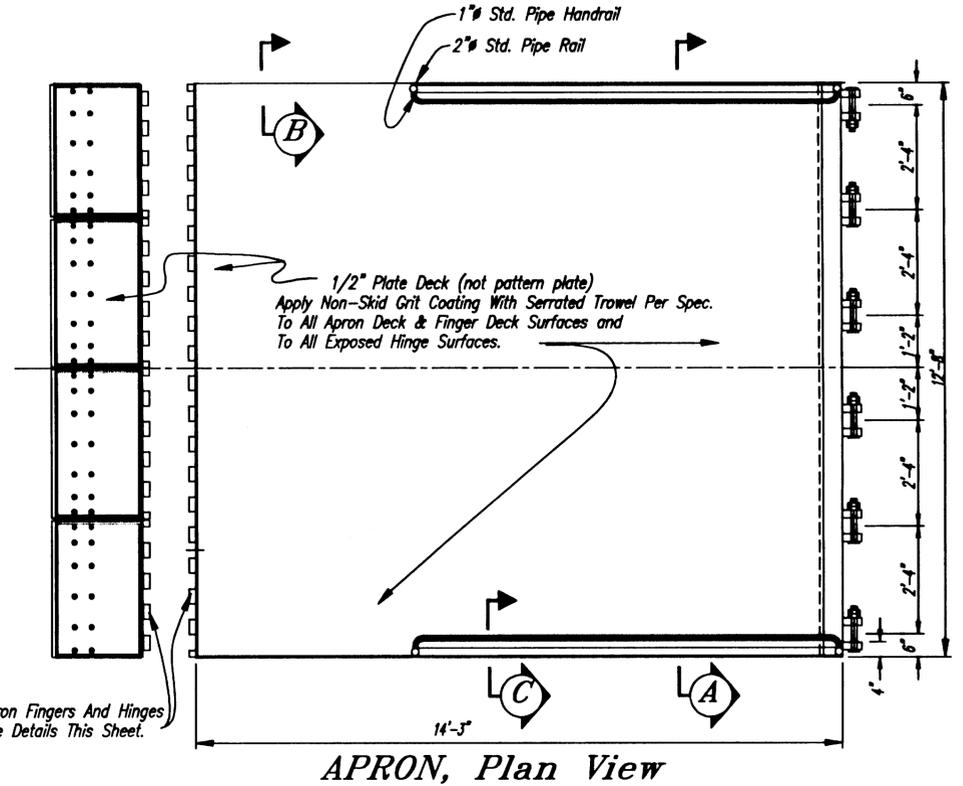
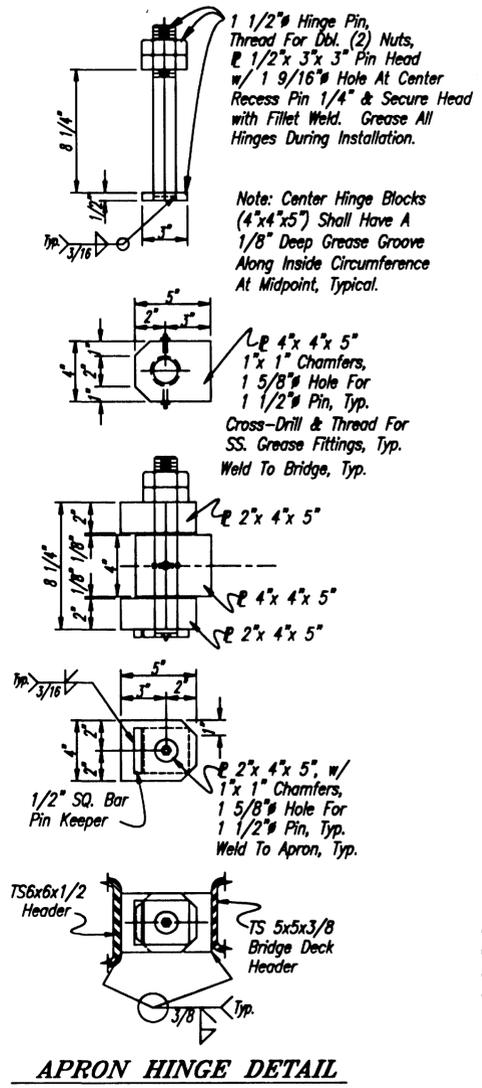
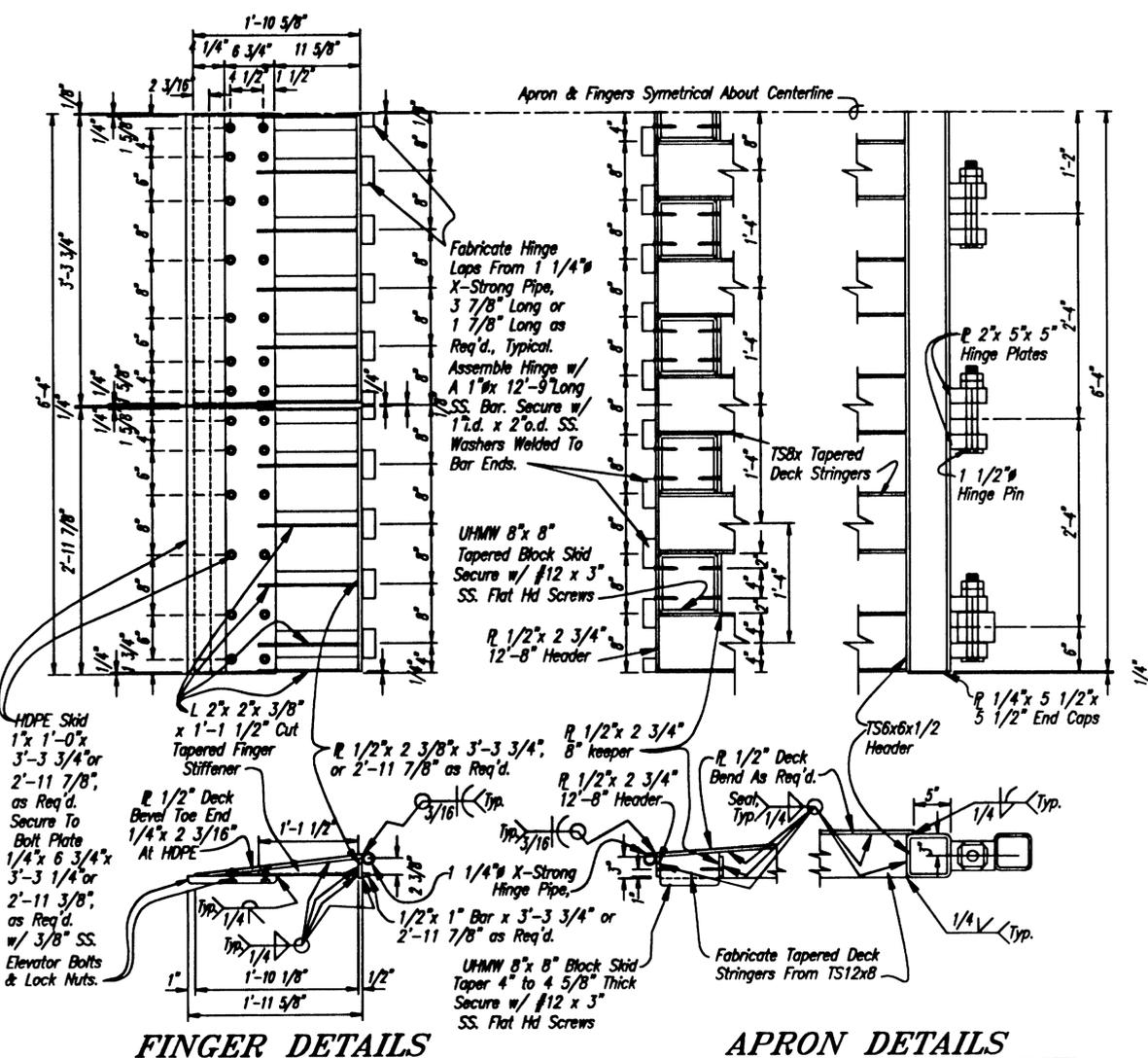
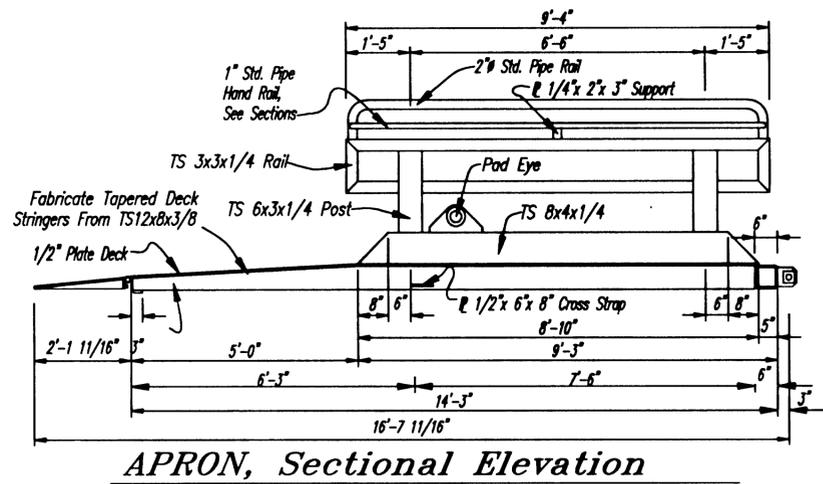
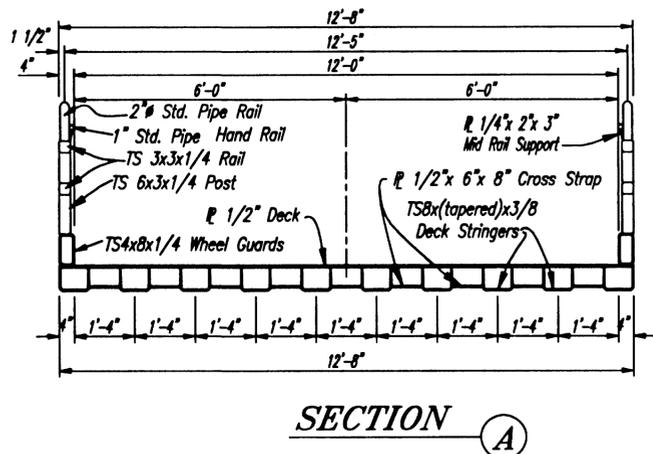
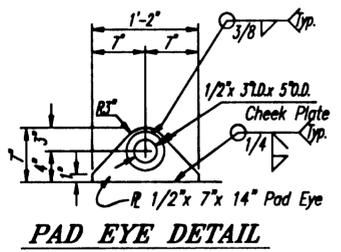
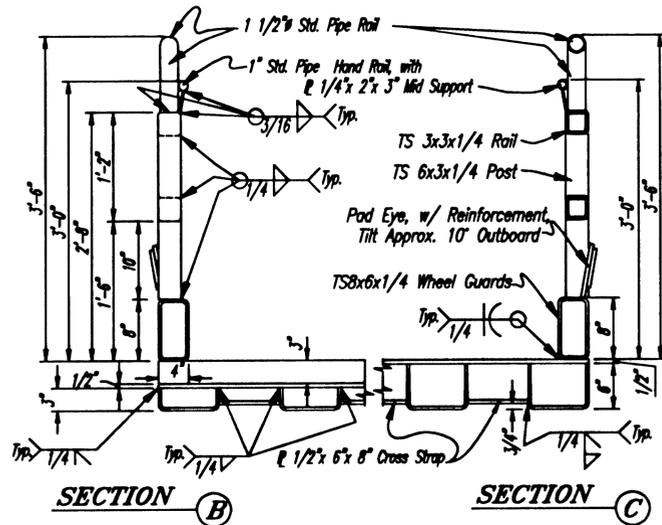
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
RAMP LOCK DETAILS

DESIGNED BY: Nelson
DRAWN BY: Nelson
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 54 OF 87





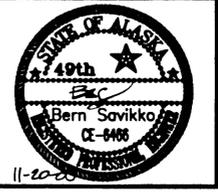
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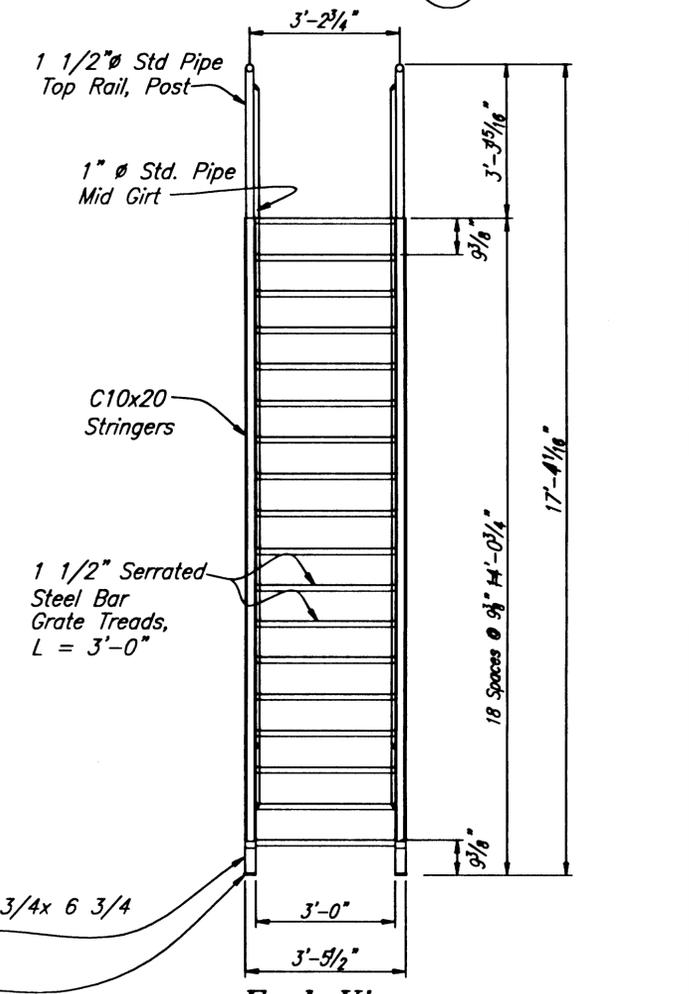
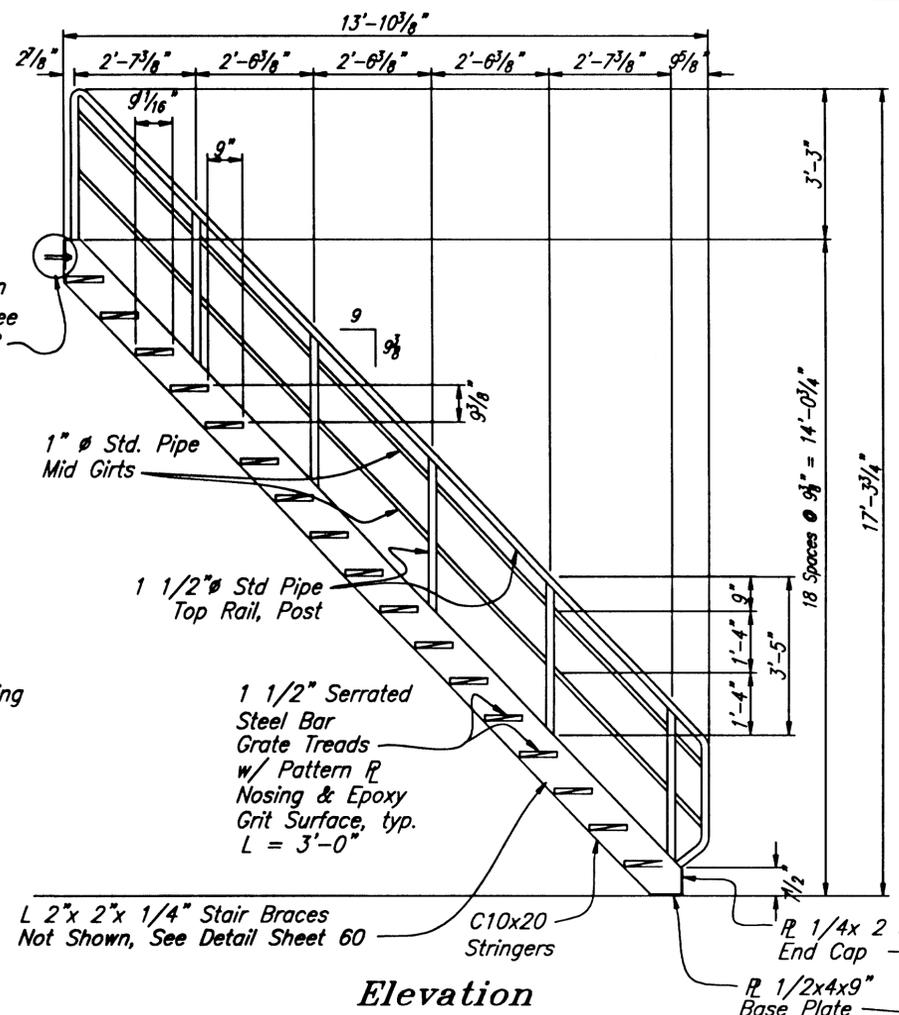
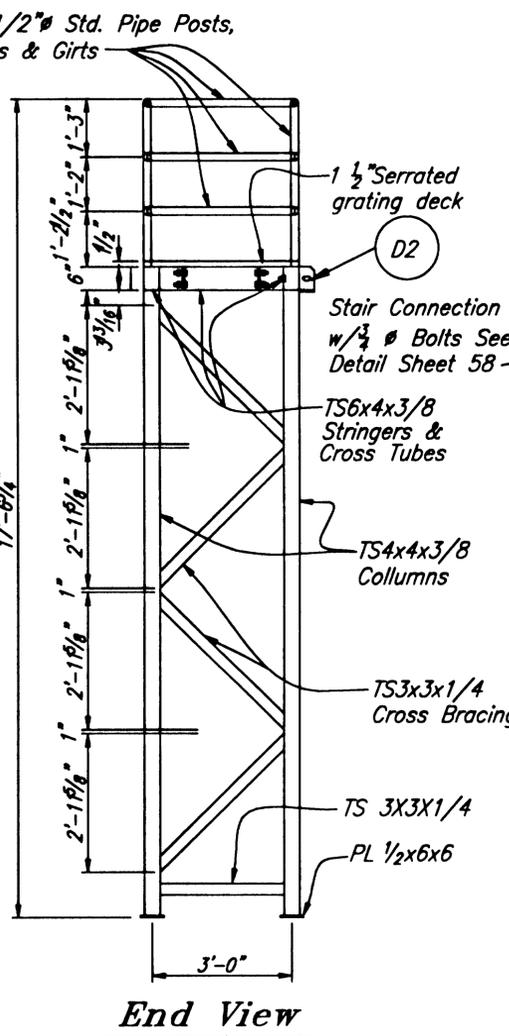
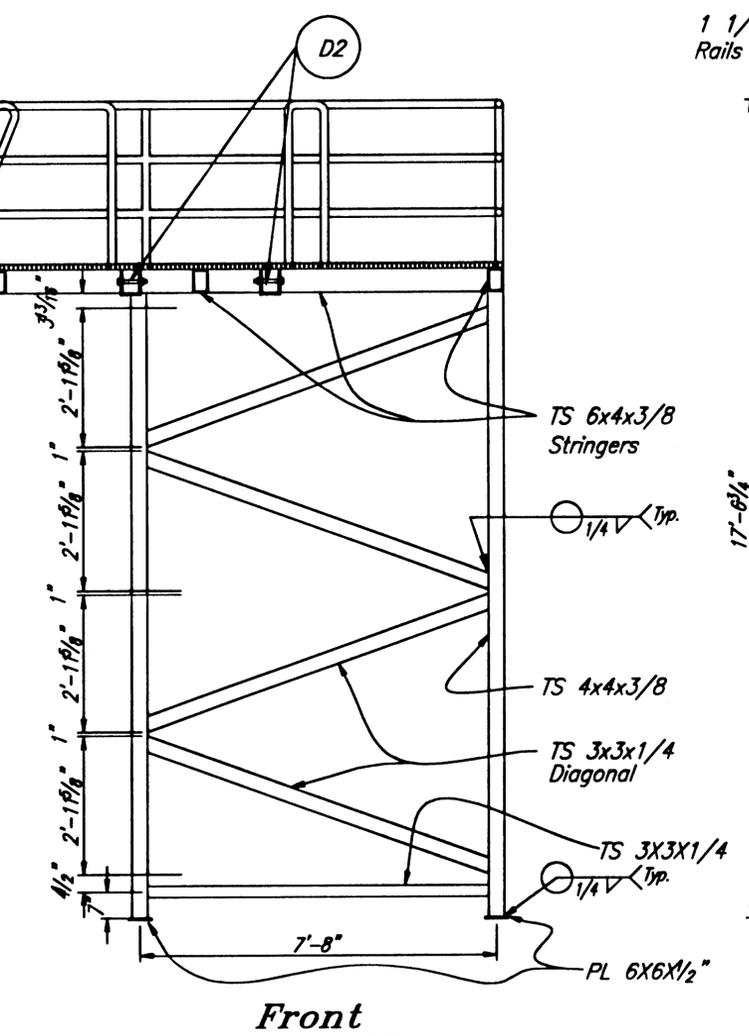
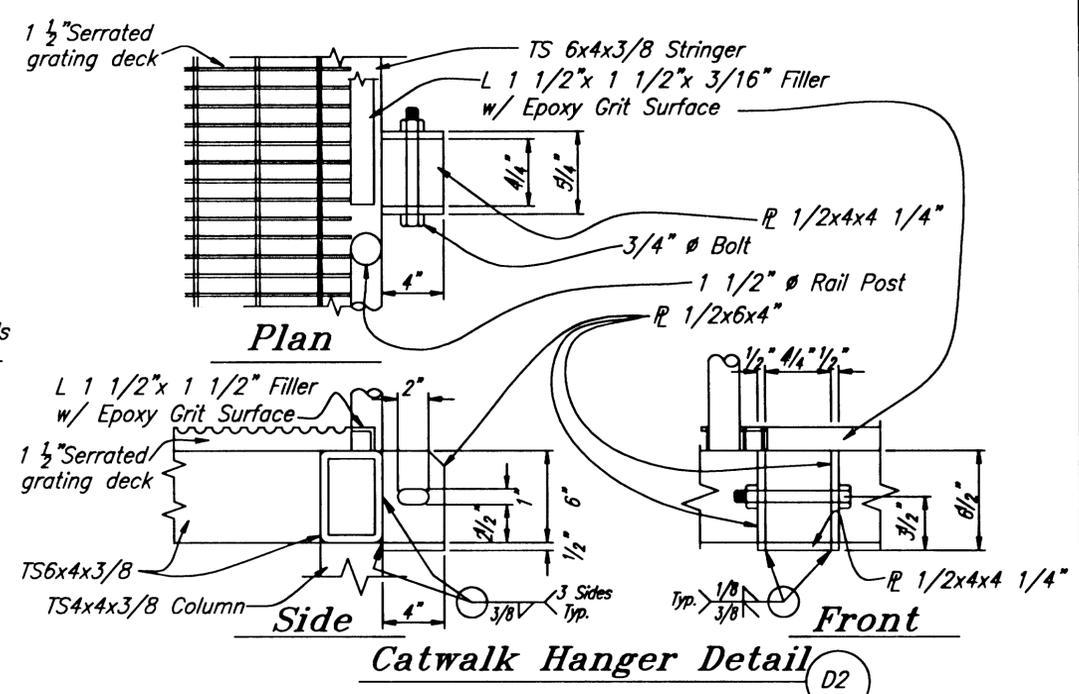
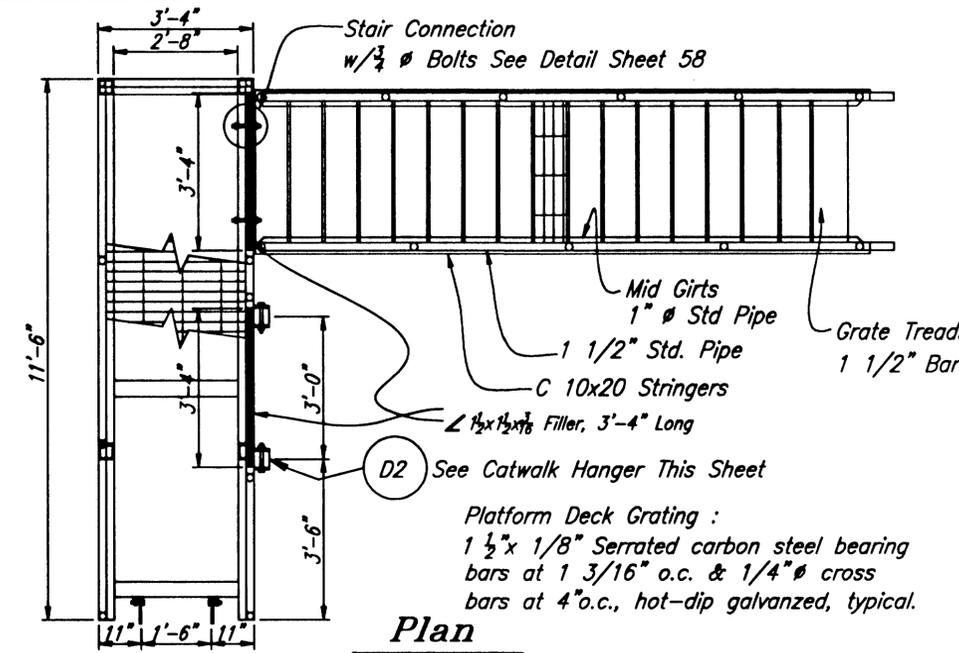
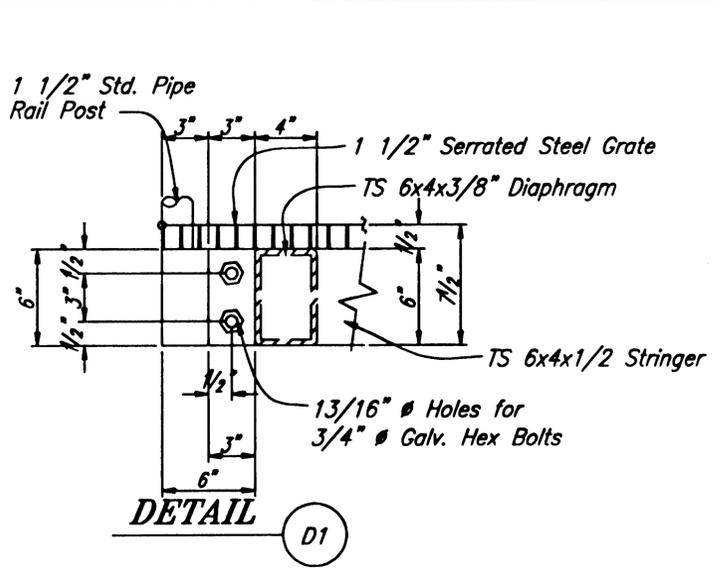
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BY:	DATE:
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(07) / 67857
ALASKA
APRON DETAILS

DESIGNED BY:	Savikko	PROJECT NO.	67857
DRAWN BY:	Nelson	DATE:	November 2000
CHECKED BY:	Miller	SHEET	58 OF 87





PLATFORM "A" DETAIL

STAIR "A" DETAIL

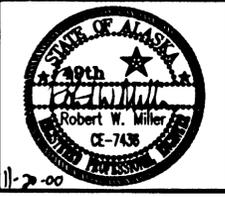
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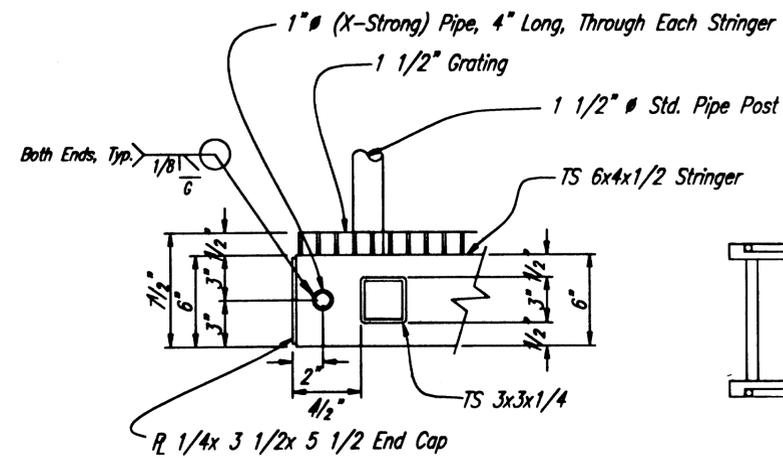
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

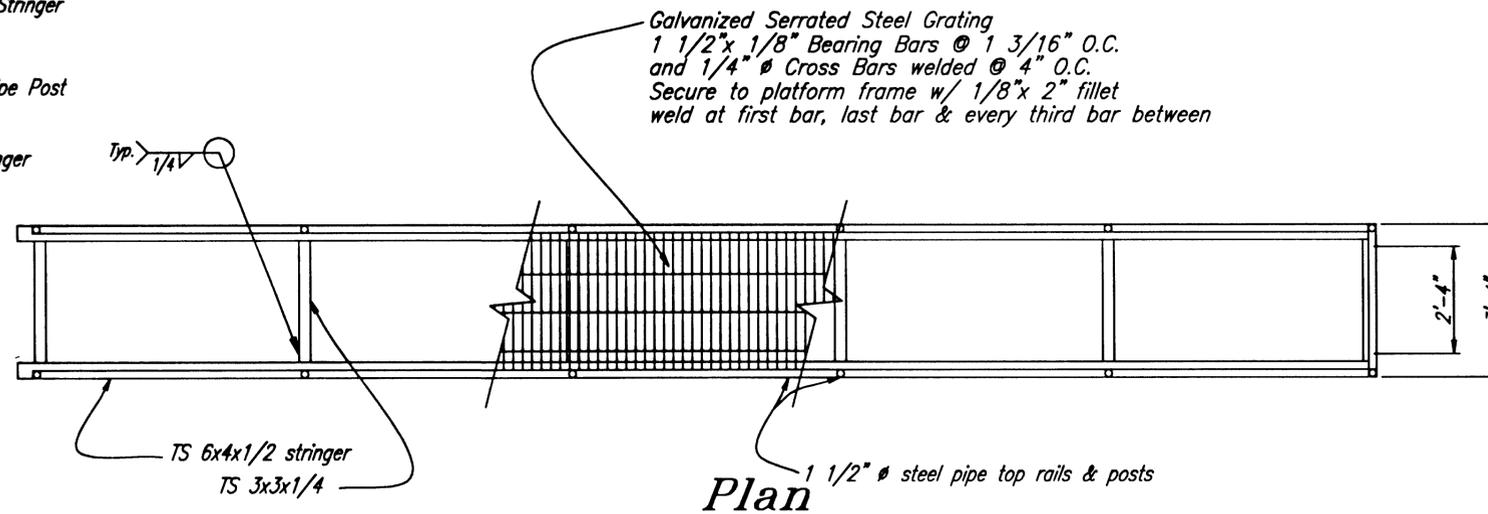
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
RAMP PLATFORM "A"

DESIGNED BY: Nelson	PROJECT NO. 67857
DRAWN BY: Nelson	DATE: November 2000
CHECKED BY: Miller	SHEET 57 OF 67

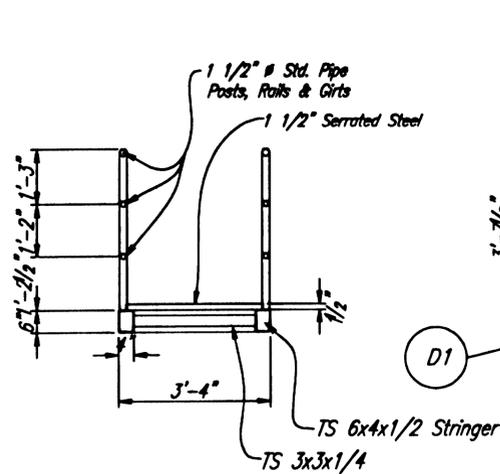




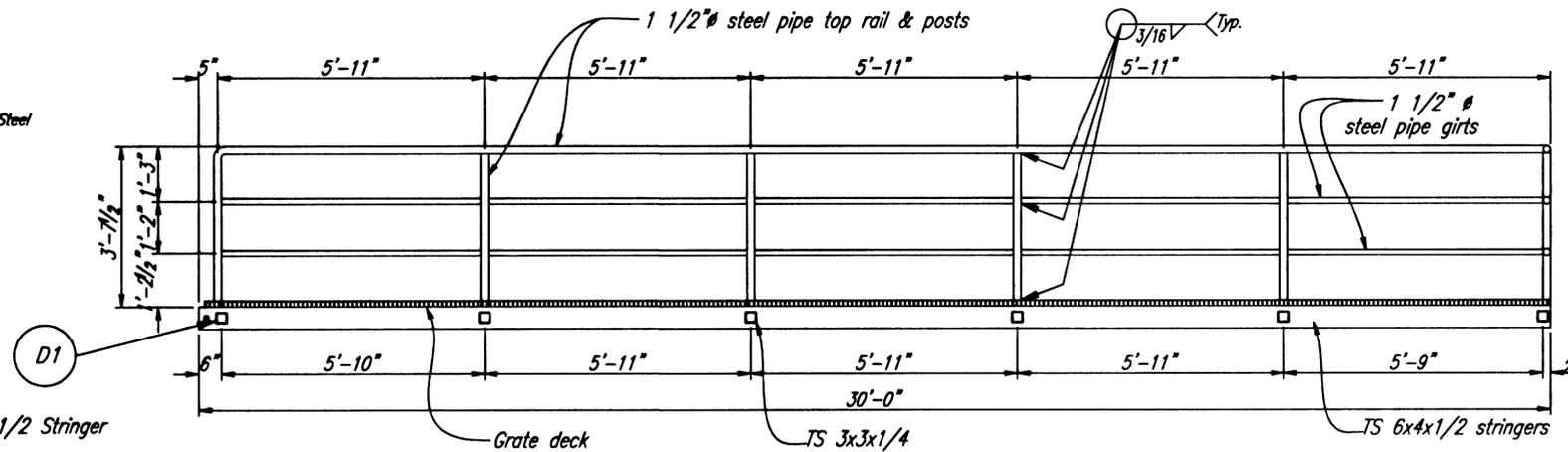
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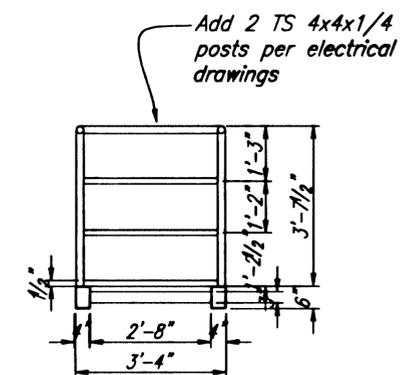
Plan



Typical Section



Elevation



End View

Platform Catwalk Details

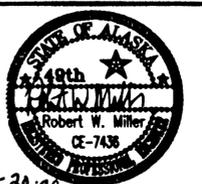
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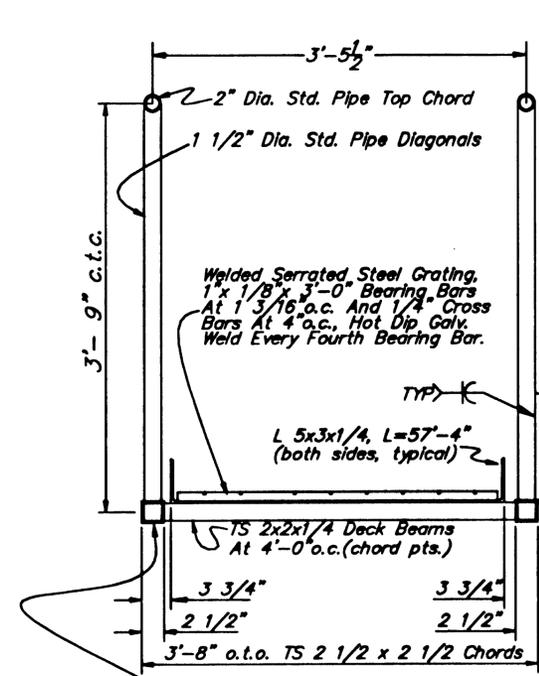
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BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

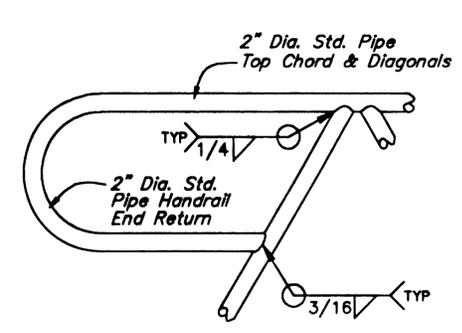
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67857
ALASKA
RAMP CATWALK DETAILS

DESIGNED BY: Nelson	PROJECT NO. 67857
DRAWN BY: Nelson	DATE: November 2000
CHECKED BY: Miller	SHEET 59 OF 67

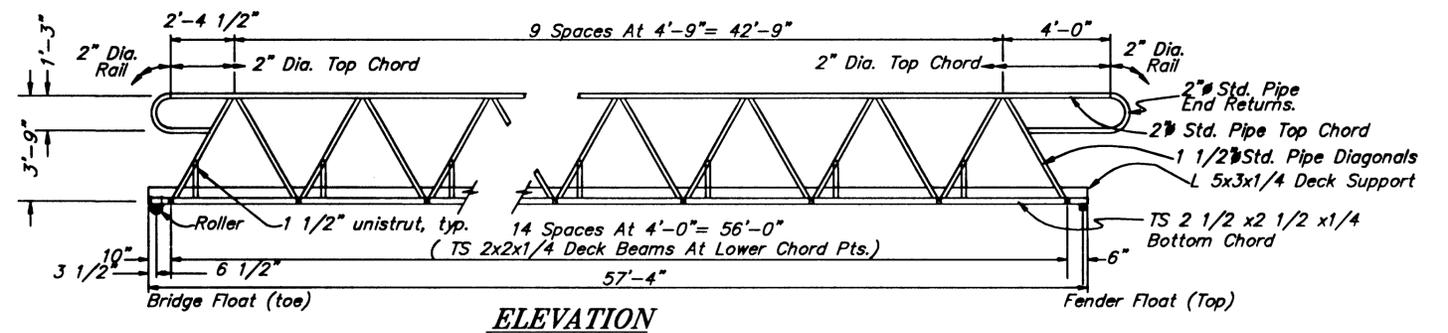




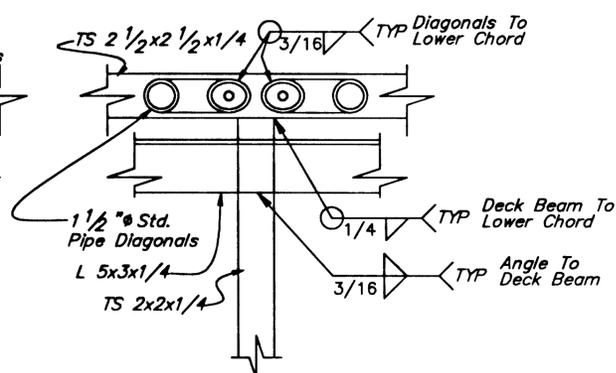
**TYPICAL SECTION
(looking seaward)**



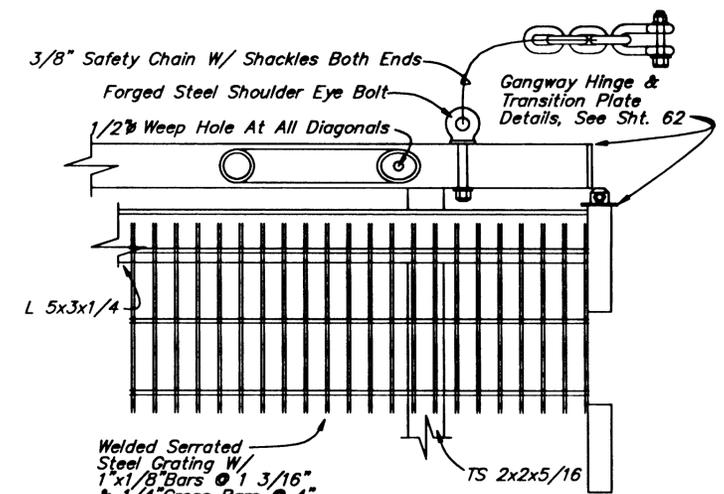
TOE DETAILS, PLAN



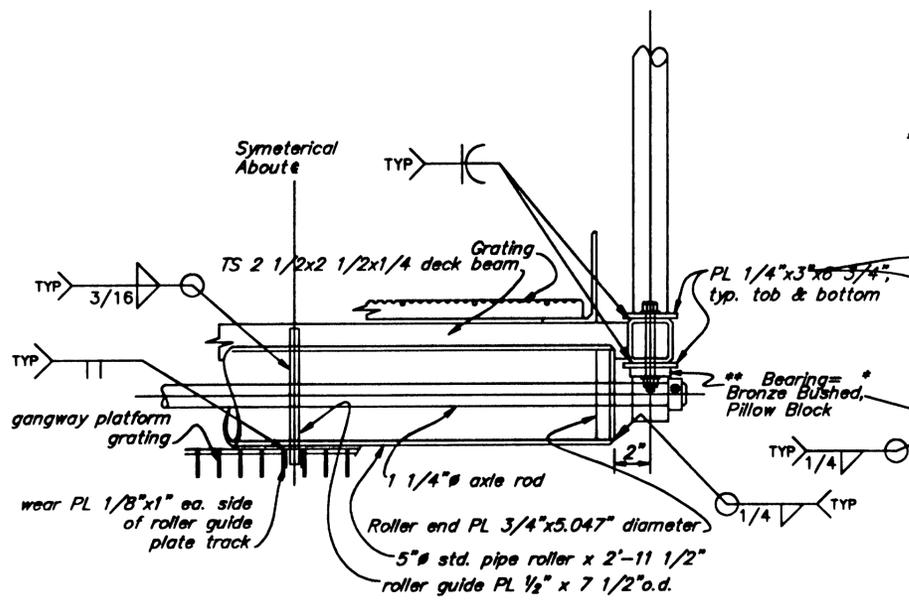
ELEVATION



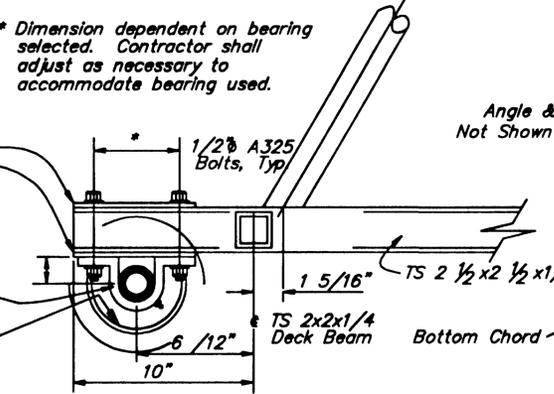
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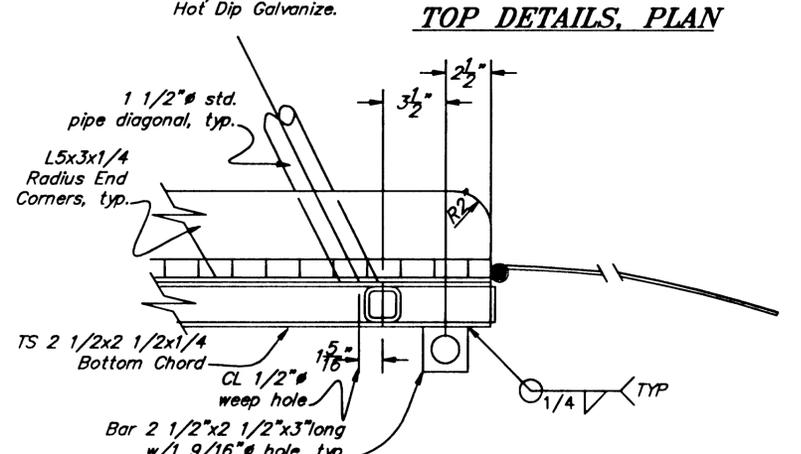
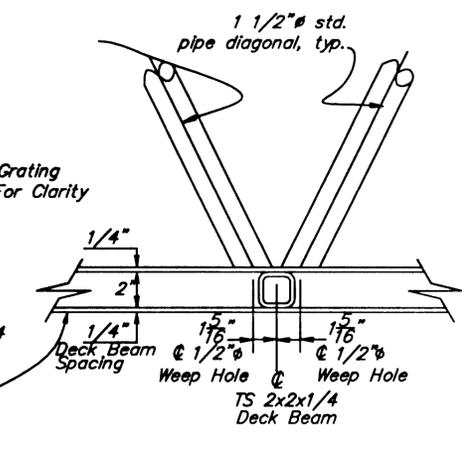
TOP DETAILS, PLAN



TOE DETAILS, END ELEVATION



TOE DETAILS, ELEVATION



TOP DETAILS, ELEVATION

* Dimension dependent on bearing selected. Contractor shall adjust as necessary to accommodate bearing used.

** Bearing: Bronze Bushed Pillow Block, High Height Std. Duty, Set Screw Lock, Relube Bearing, Cast Iron, 1 1/4 inch bore.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

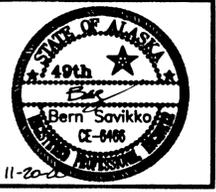
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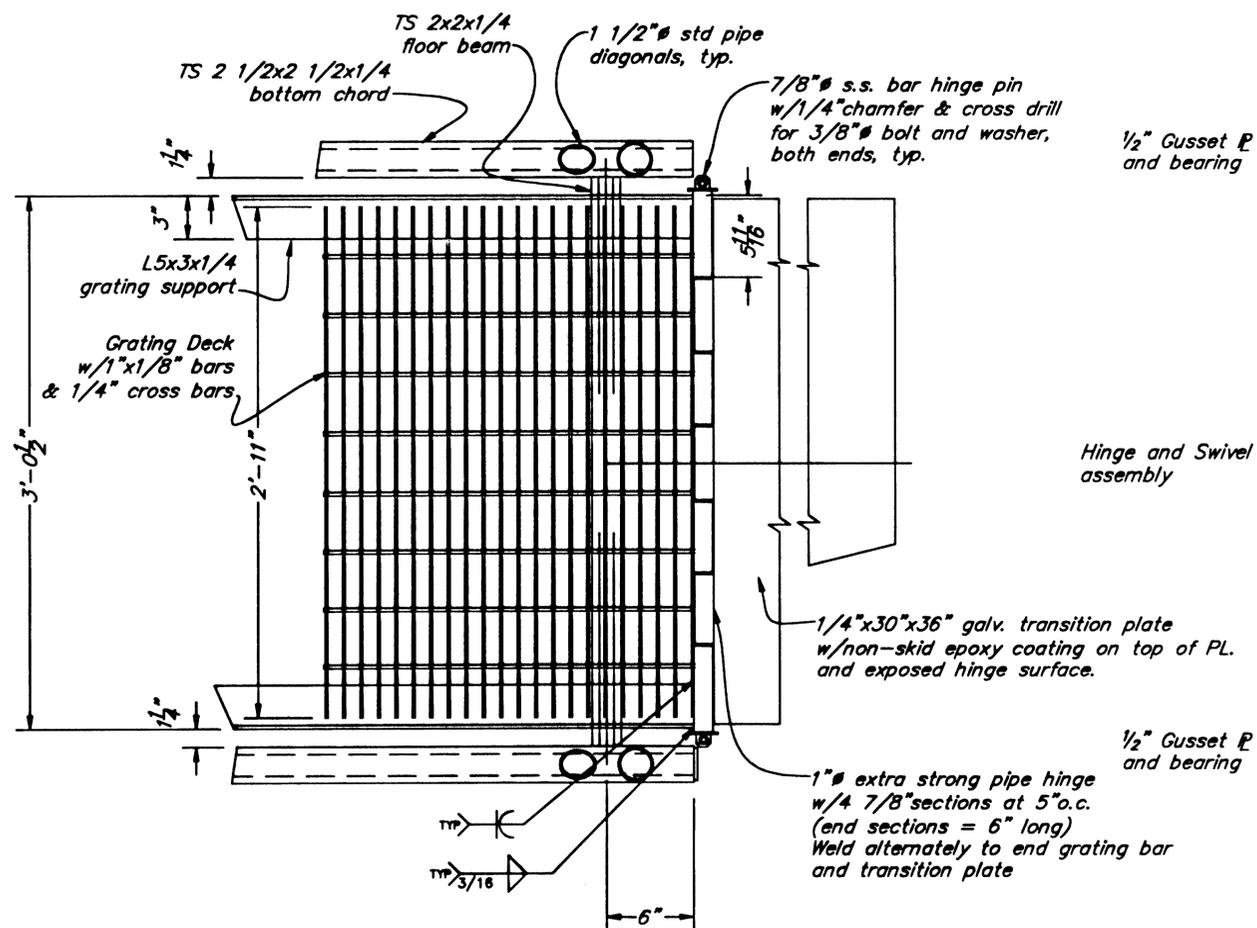
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
GANGWAY DETAILS

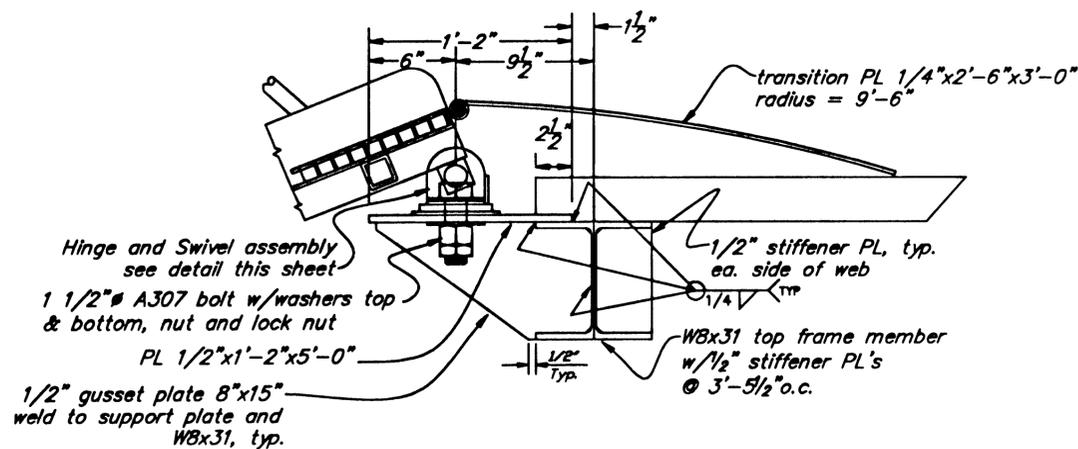
DESIGNED BY: Savikko
DRAWN BY: Nelson
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 61 OF 67

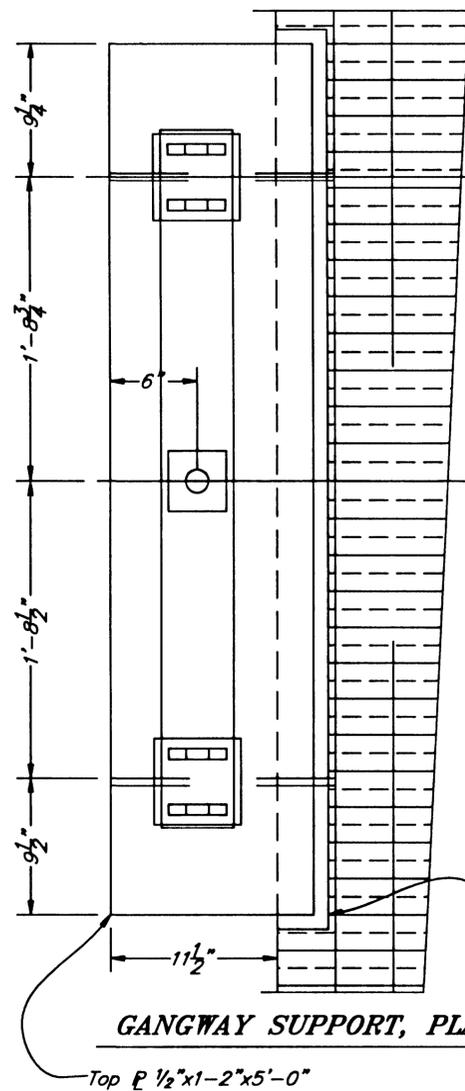




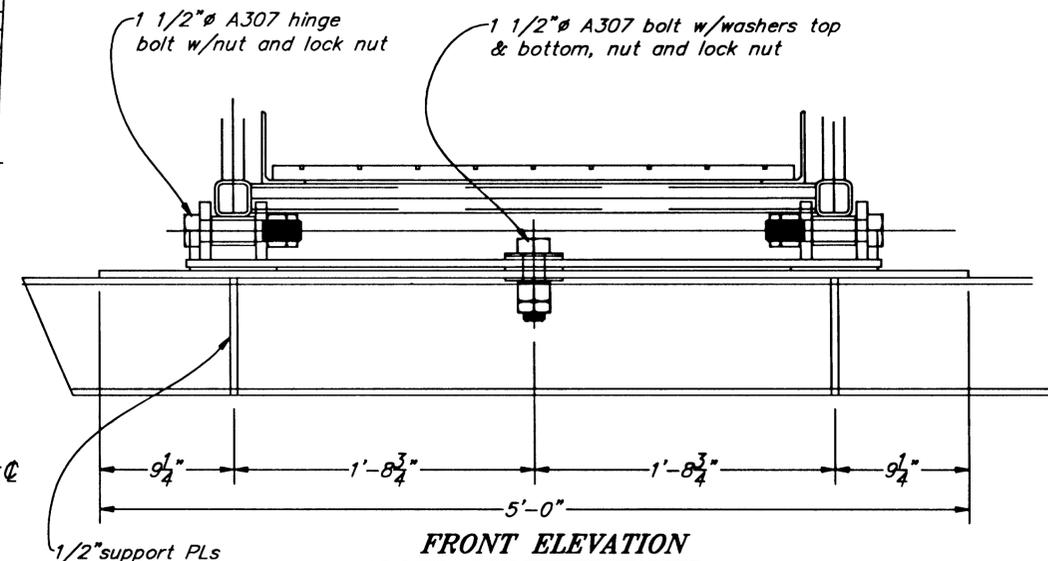
GANGWAY TRANSITION PLATE DETAILS



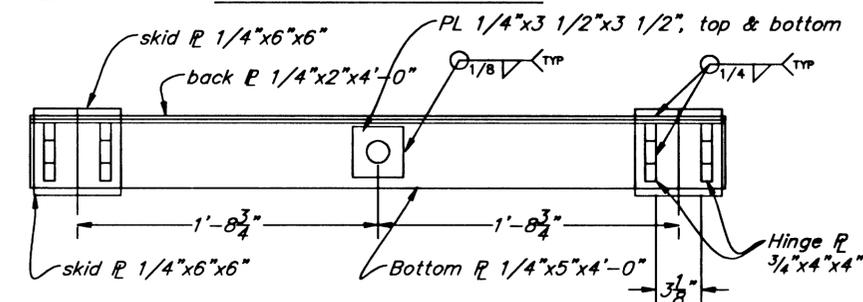
SIDE ELEVATION



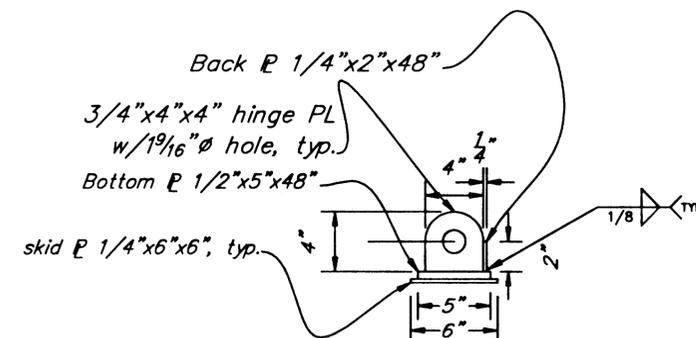
GANGWAY SUPPORT, PLAN



FRONT ELEVATION



PLAN SWIVEL HINGE DETAIL



GANGWAY HINGE DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

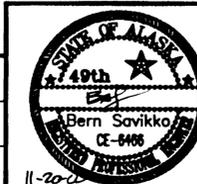
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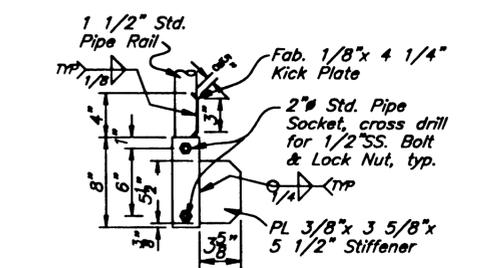
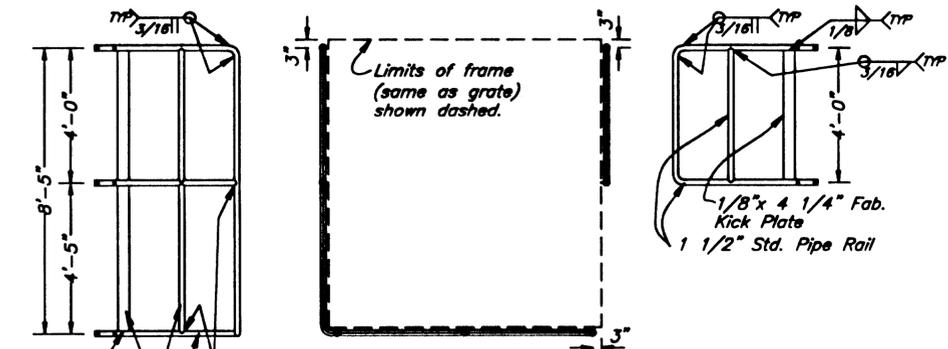
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 87857

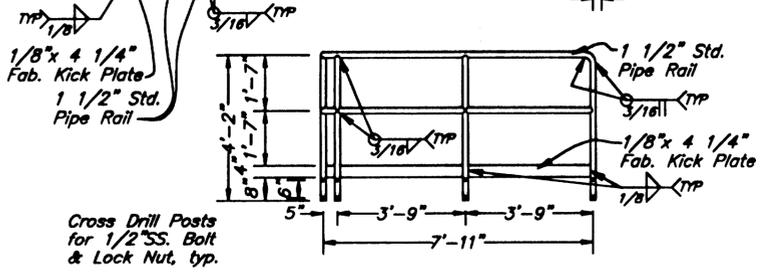
GANGWAY SUPPORT DETAILS

DESIGNED BY:	Savikko	PROJECT NO.	87857
DRAWN BY:	Nelson	DATE:	November 2000
CHECKED BY:	Miller	SHEET	02 OF 07

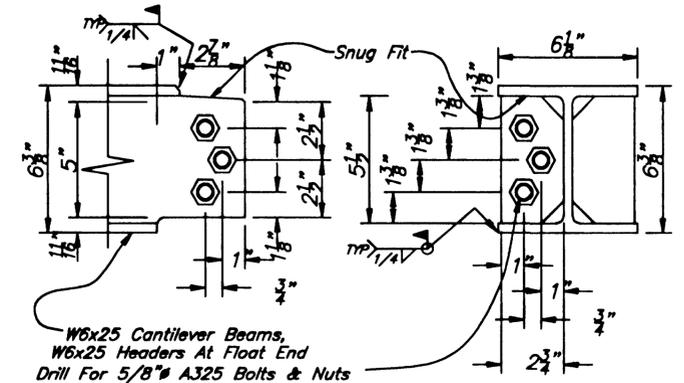




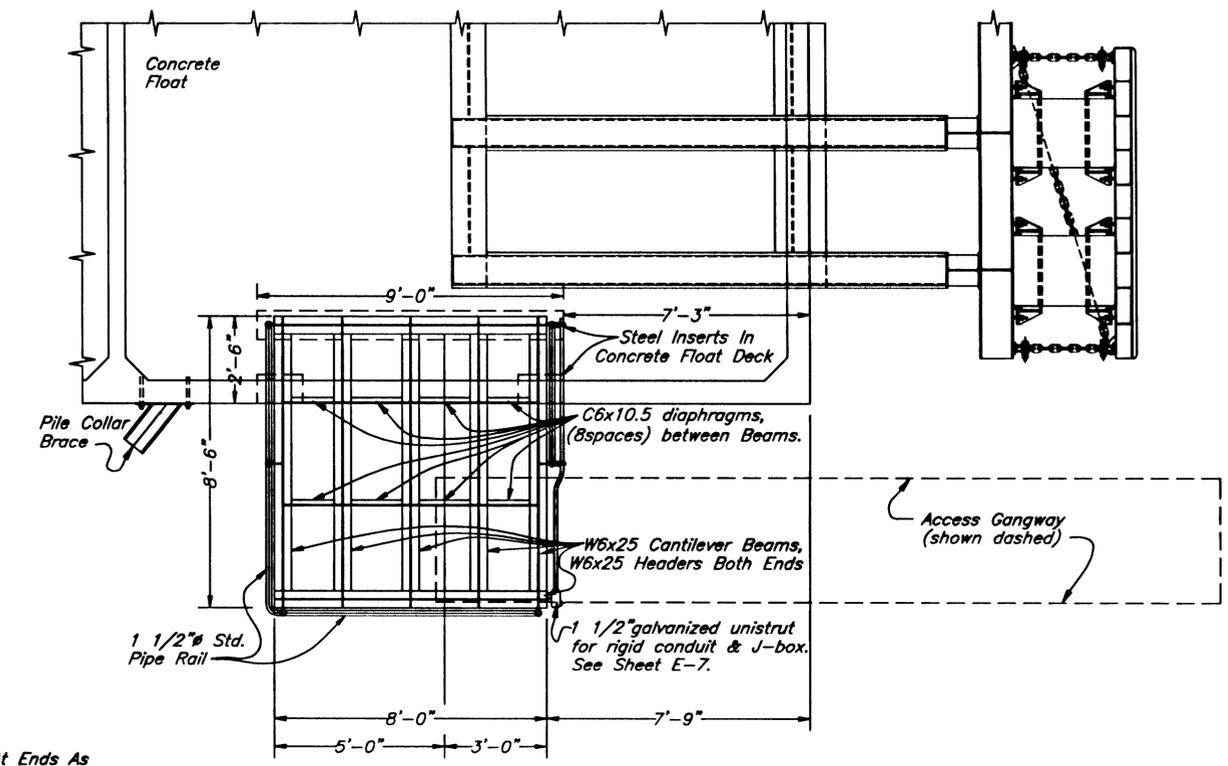
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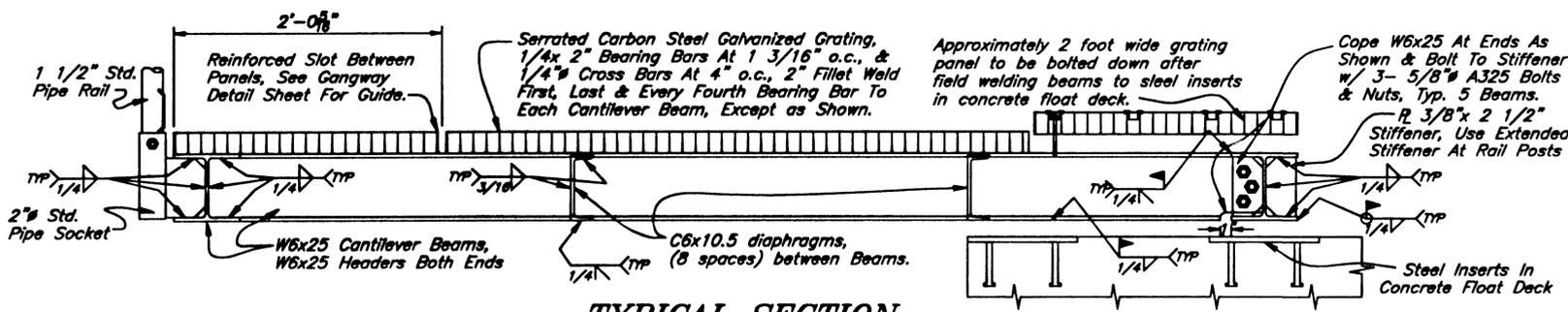
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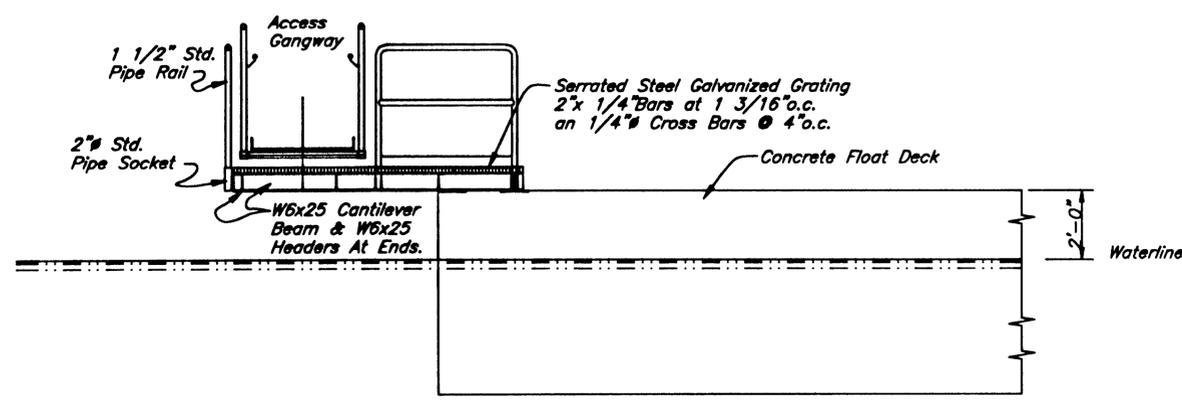
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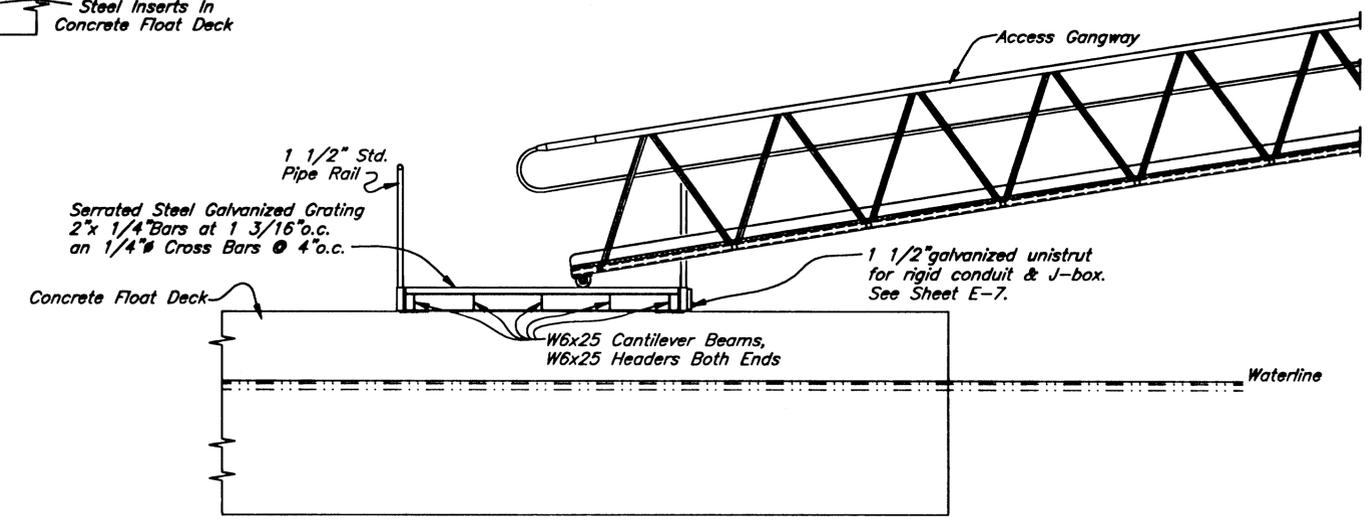
PLAN VIEW



TYPICAL SECTION



END ELEVATION



SECTION AT GANGWAY

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

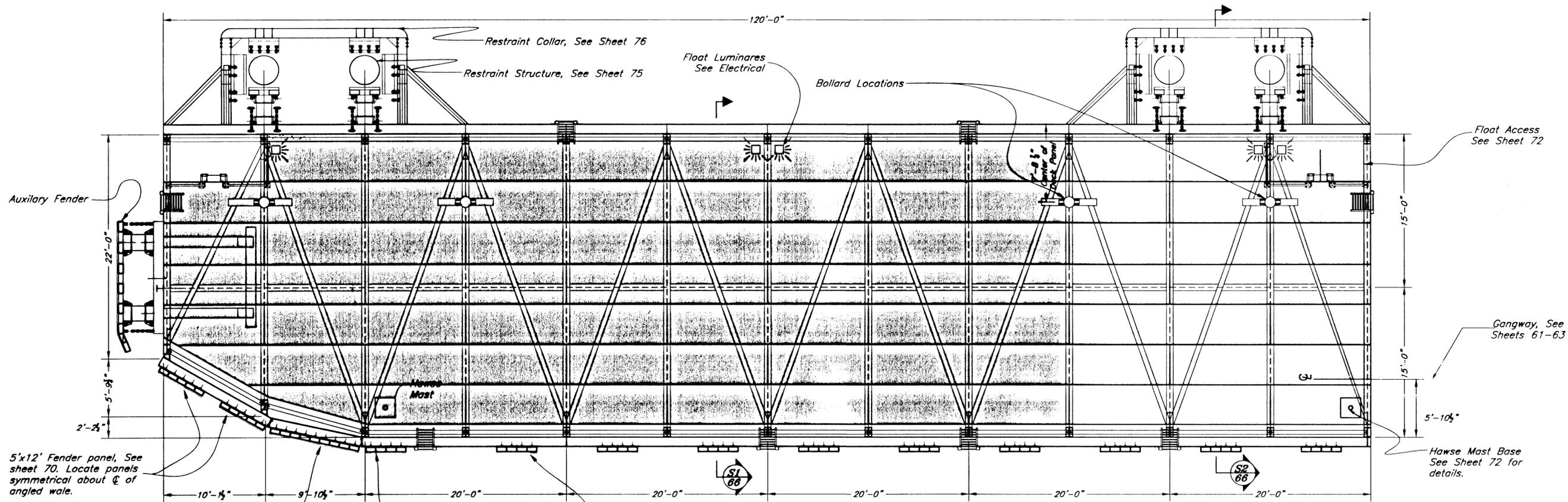
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RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

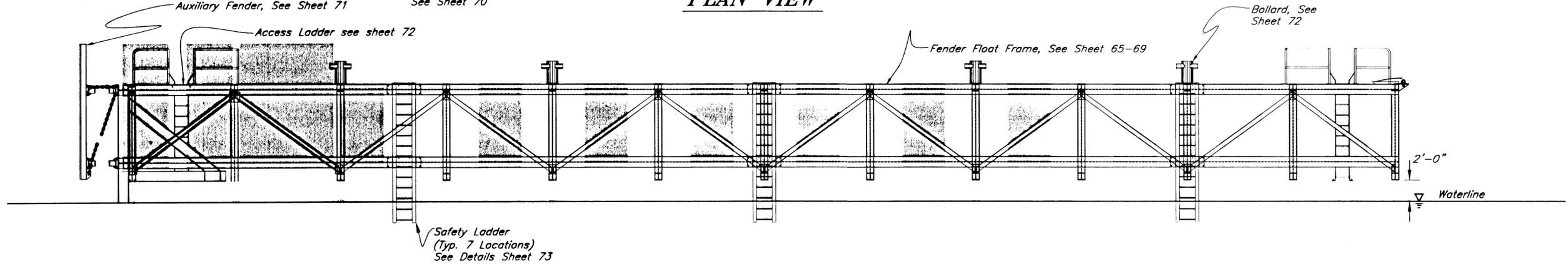
KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
GANGWAY LANDING DETAILS

DESIGNED BY:	Nelson	PROJECT NO.	67857
DRAWN BY:	Nelson	DATE:	November 2000
CHECKED BY:	Miller	SHEET	63 OF 87





PLAN VIEW



ELEVATION VIEW

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:
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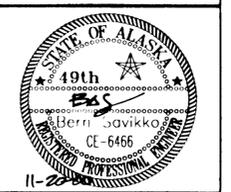
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

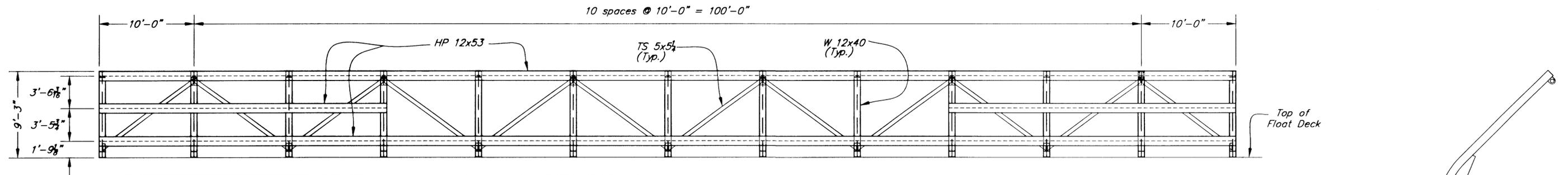
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(67) / 67857

FENDER FLOAT LAYOUT

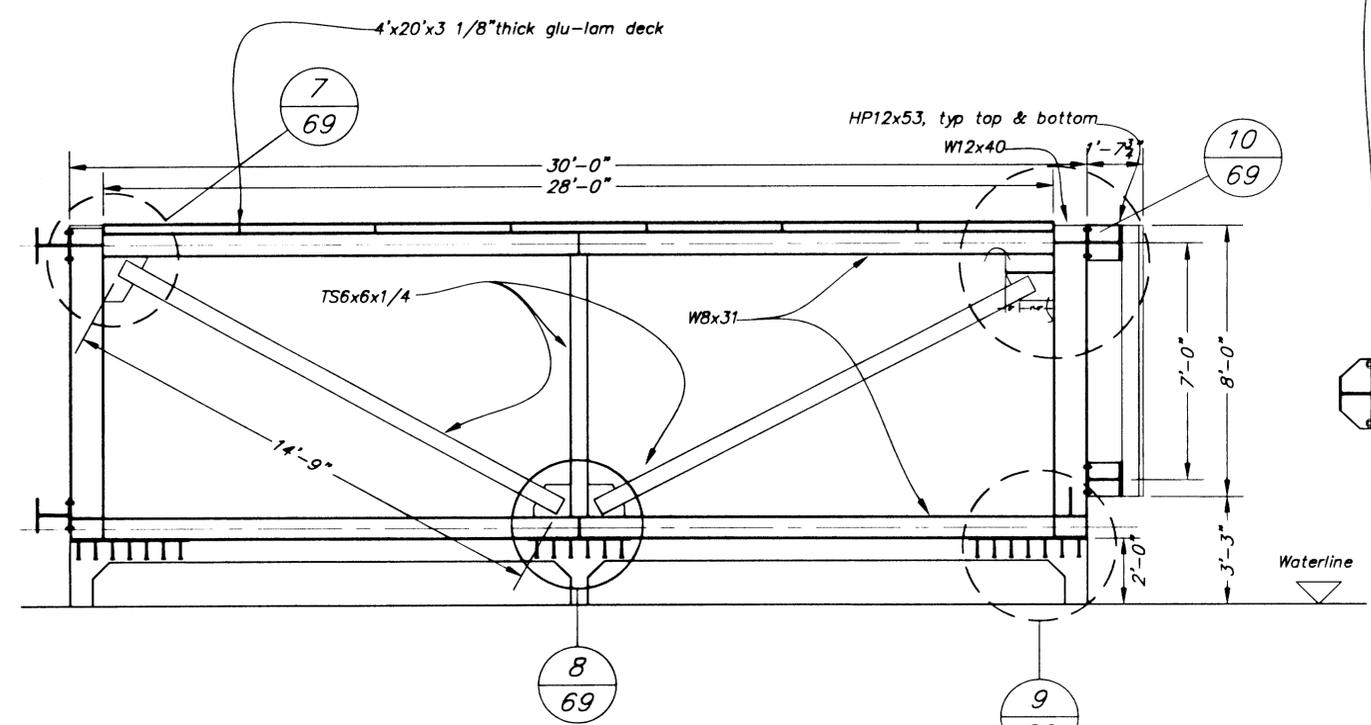
ALASKA
 DESIGNED BY: Savikko
 DRAWN BY: Robertson
 CHECKED BY: Miller

PROJECT NO. 67857
 DATE: November 2000
 SHEET 64 OF 87

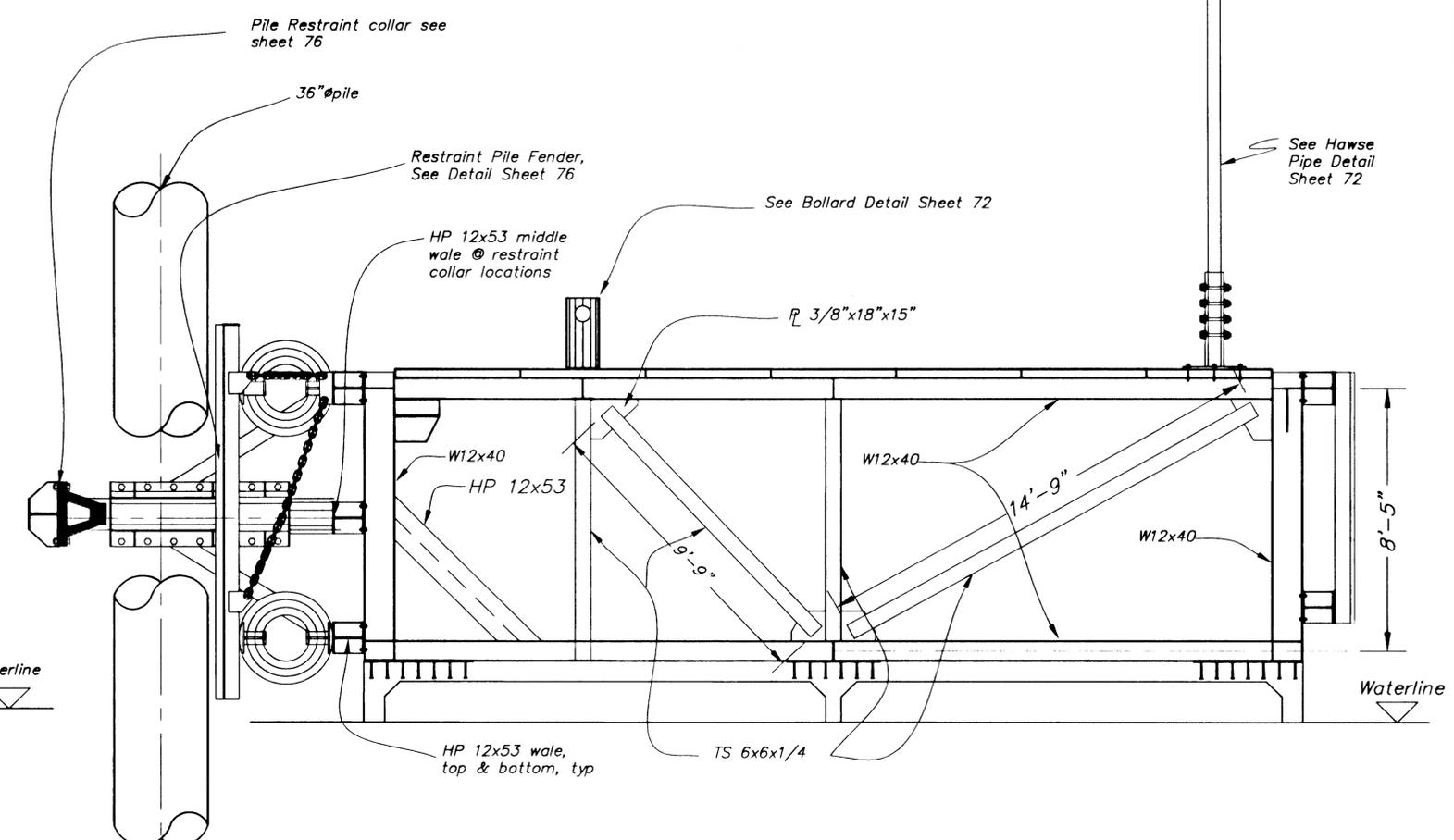




Rear View
Fender Float Deck Frame Assembly



Typical Section View S1/64



Section View
Elevation @ Restraint Structure S2/64

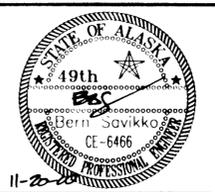
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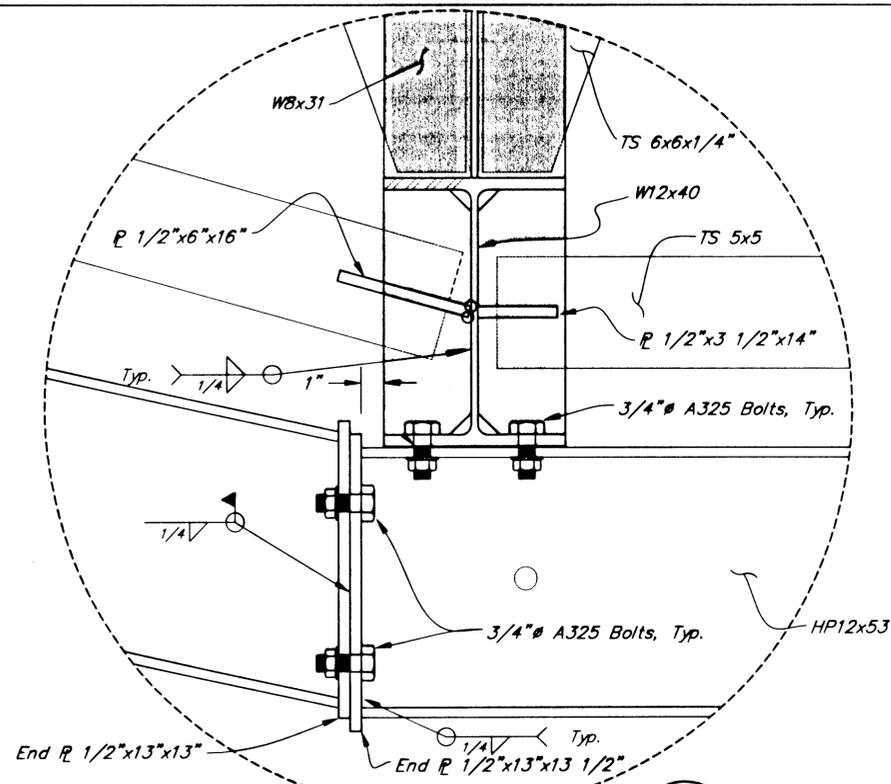
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RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67857
ALASKA
DECK FRAME SECTIONS

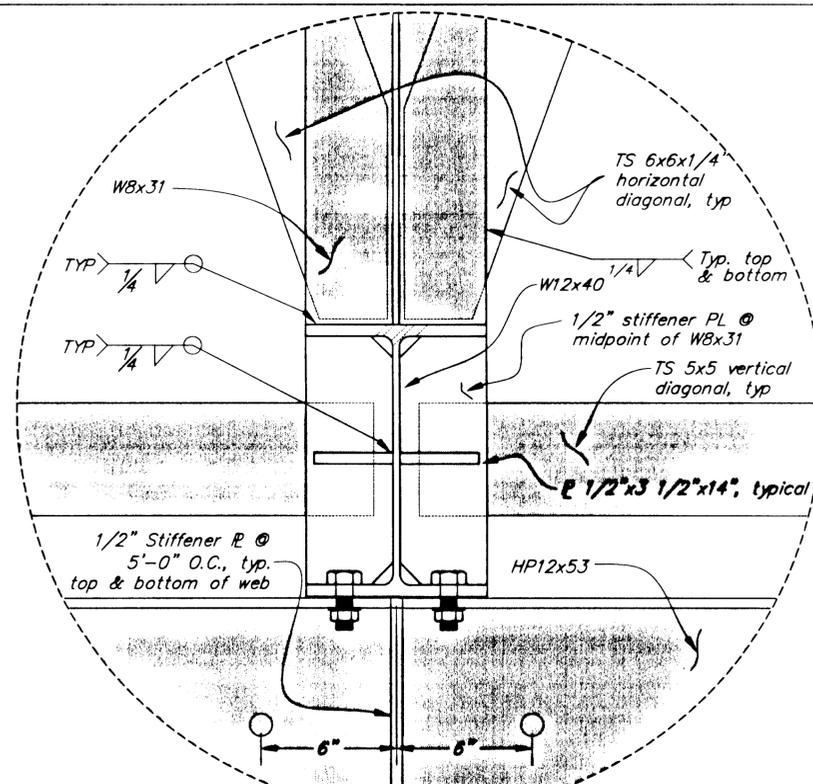
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DRAWN BY: Robertson	DATE: November 2000
CHECKED BY: Miller	SHEET 66 OF 87





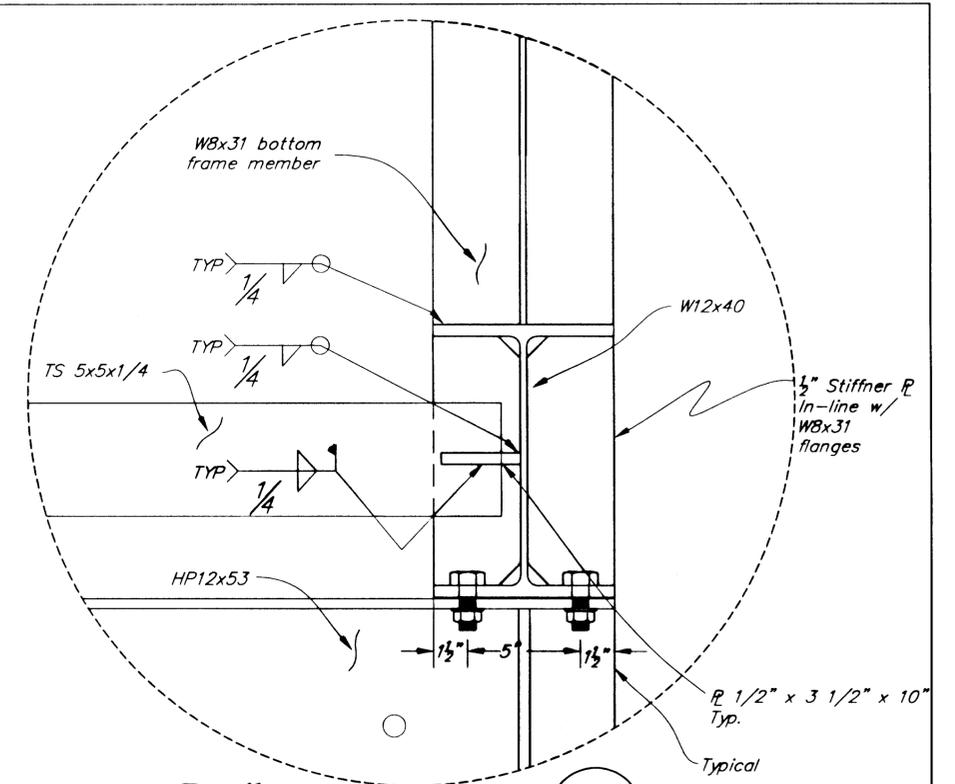
Detail
Plan View - Top Wale

D3a
65



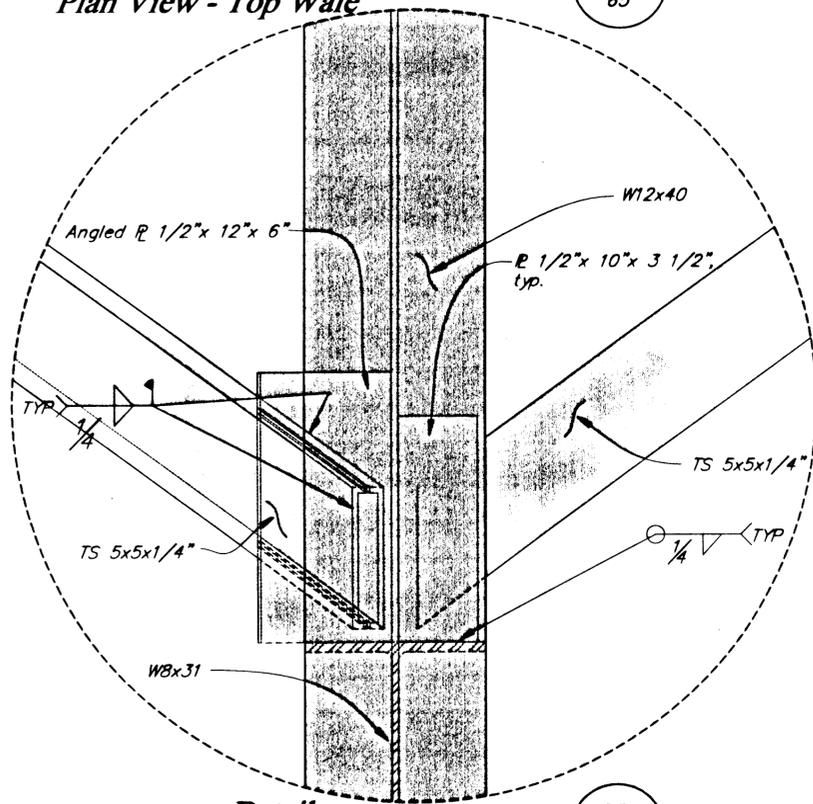
Detail
Plan View - Top Wale

D4a
65



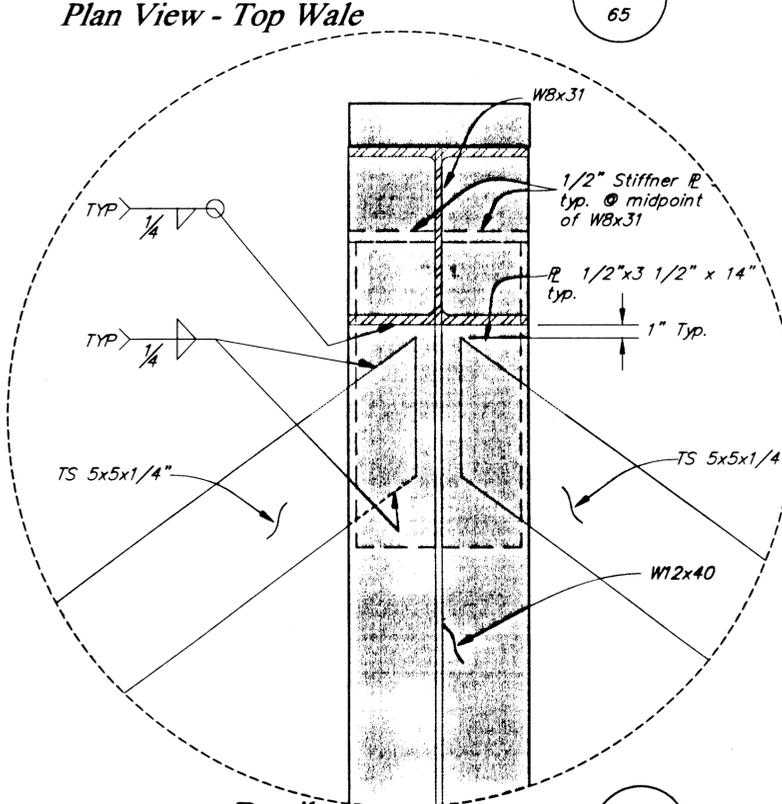
Detail
Plan View - Bottom Wale

D5a
65



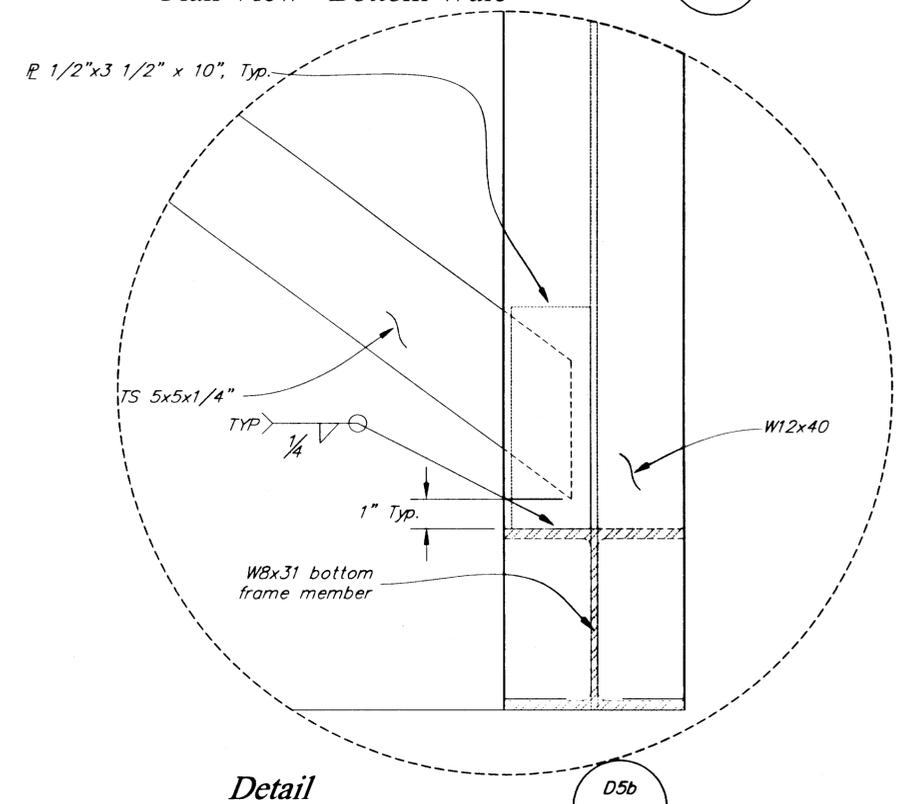
Detail
Elevation View @ Bottom Wale
(Wale not shown)

D3b
65



Detail
Elevation View @ Top Wale
(Wale not shown)

D4b
65



Detail
Elevation View @ Bottom Wale
(Wale not shown)

D5b
65

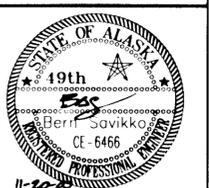
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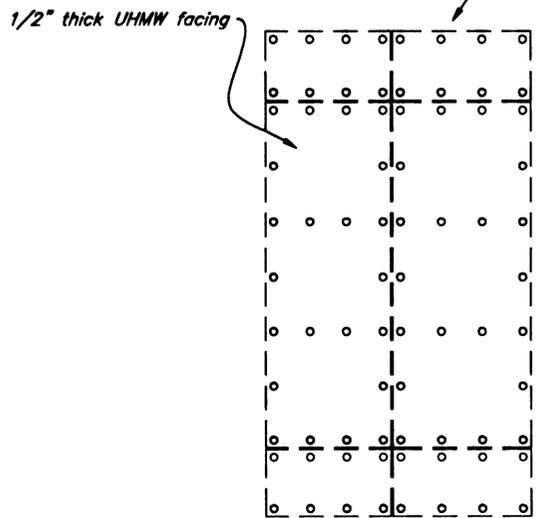
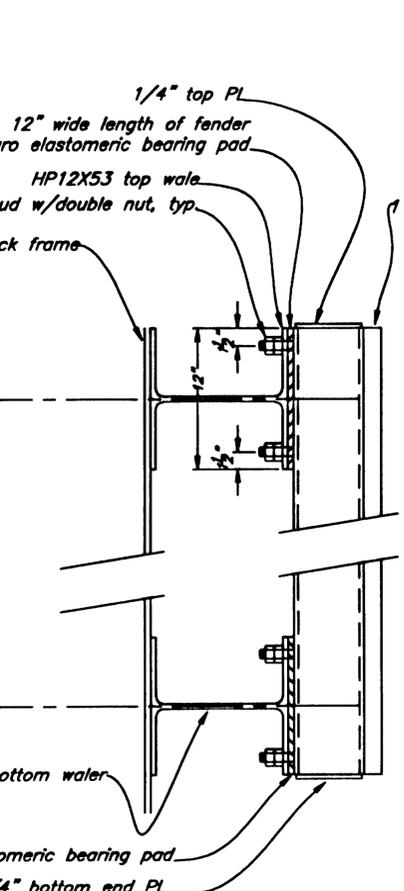
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
FENDER FLOAT CONNECTION DETAILS

DESIGNED BY:	Savikko	PROJECT NO.	67857
DRAWN BY:	Robertson	DATE:	November 2000
CHECKED BY:	Miller	SHEET	68 OF 87

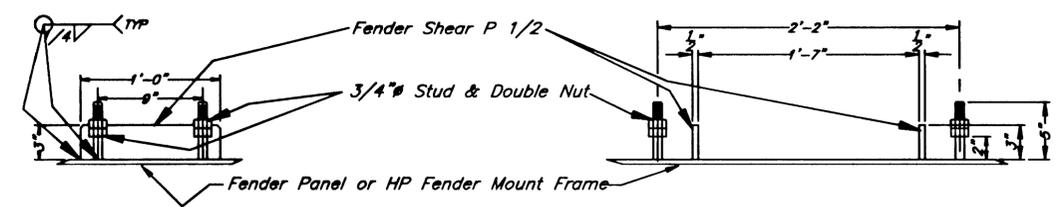
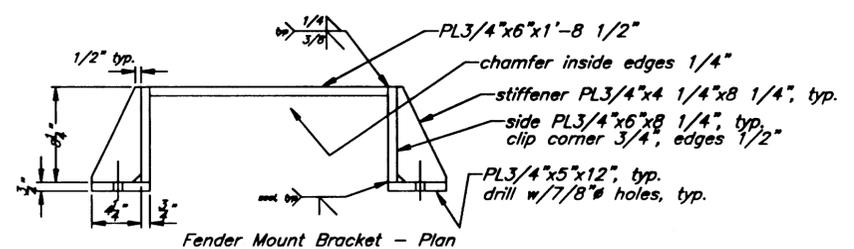
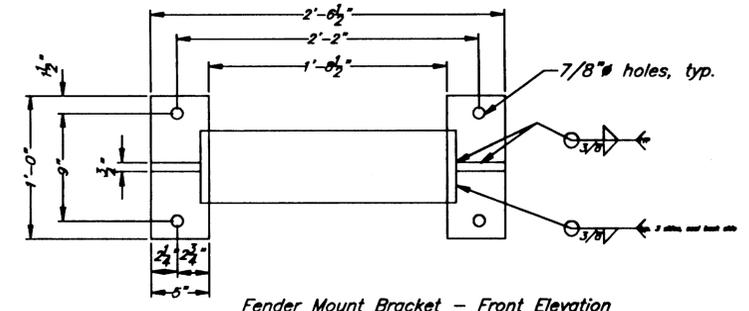




Fabricated TS12x6x3/8 (or equal) Fender Panel w/ 1 1/2\"/>

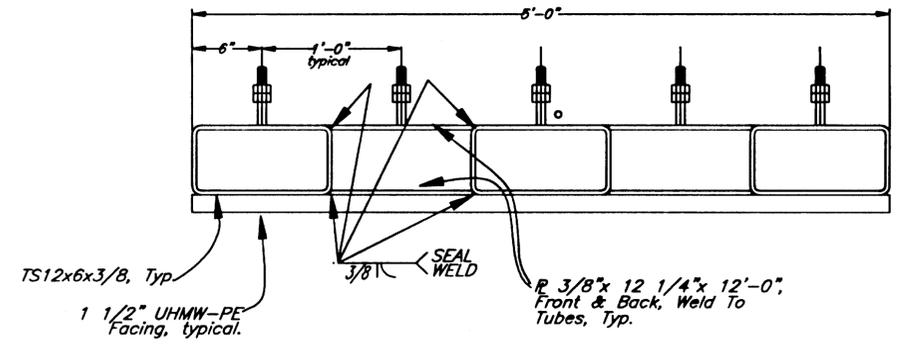
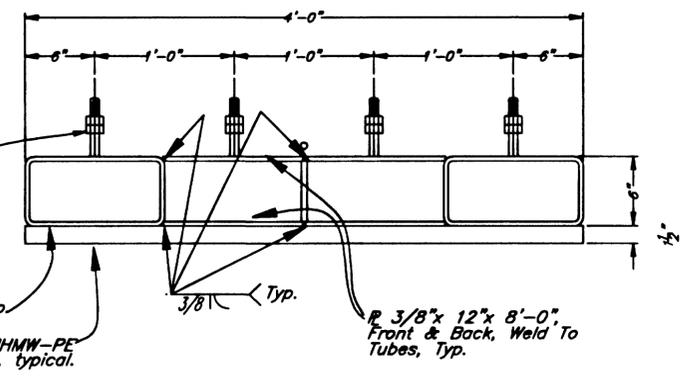
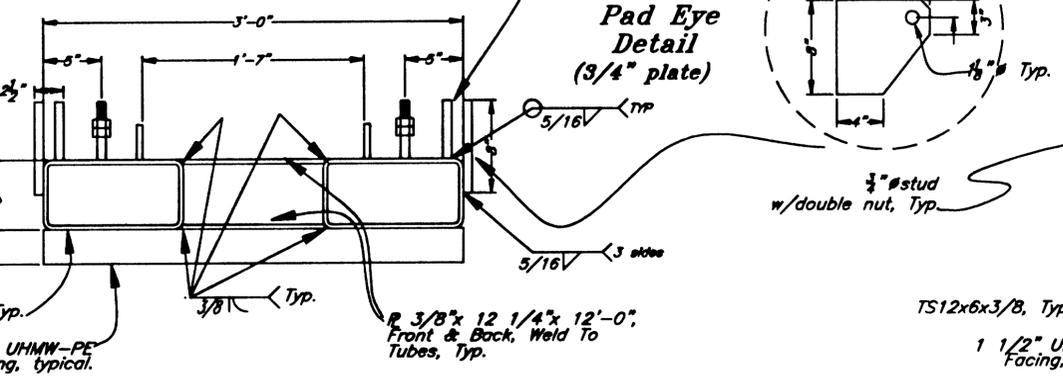
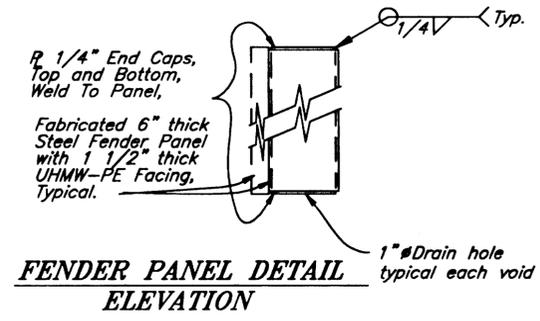
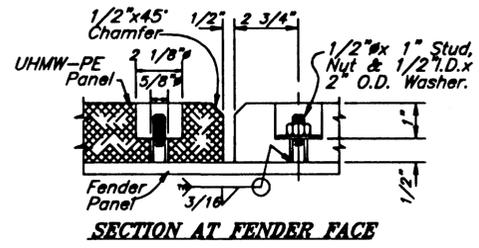
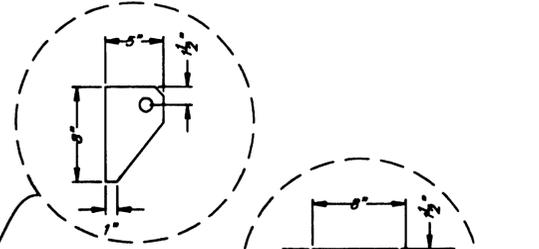
Submit Facing & Stud Layouts for approval. Coordinate Facing Installation With HDPE Panel Supplier. UHMW Sheet Size, Space Between Sheets, Hole Size & Hole Location Per Manufacturer's Recommendation. Color to be yellow on corners and black on face, Typ.

FENDER PANEL - FRONT ELEVATION



FENDER MOUNT BRACKET & MOUNTING DETAILS (for 1'-6\"/>

FENDER PANEL - SIDE ELEVATION (8' high panel shown)



5' X 12' RESTRAINT PILE FENDER PANEL

4' X 8' FENDER PANEL DETAIL

5' X 12' END FENDER PANEL DETAIL 9' X 12' END FENDER PANEL SIMILAR

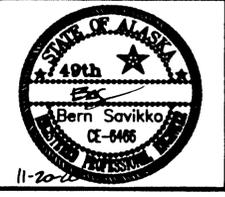
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

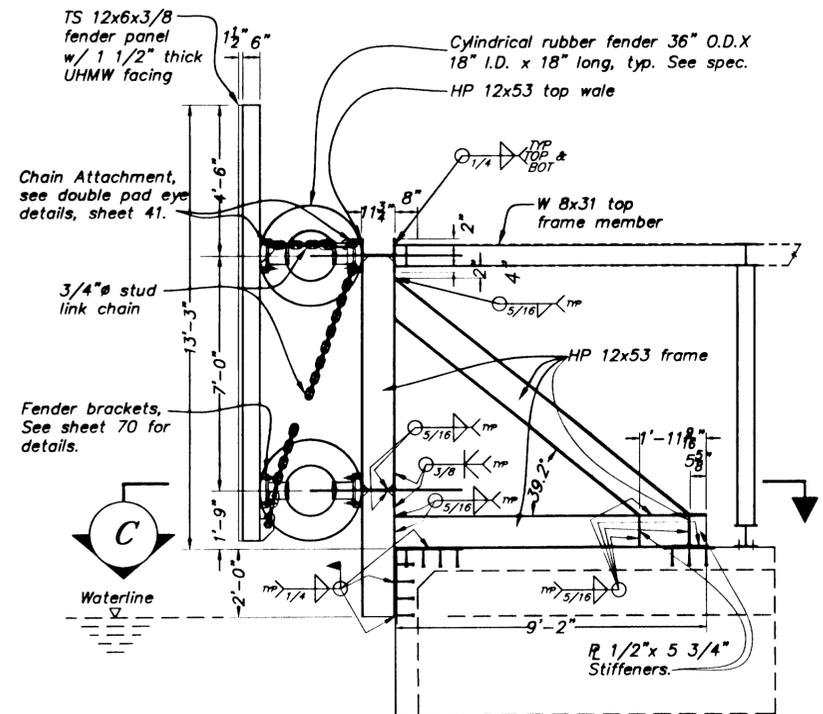
DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

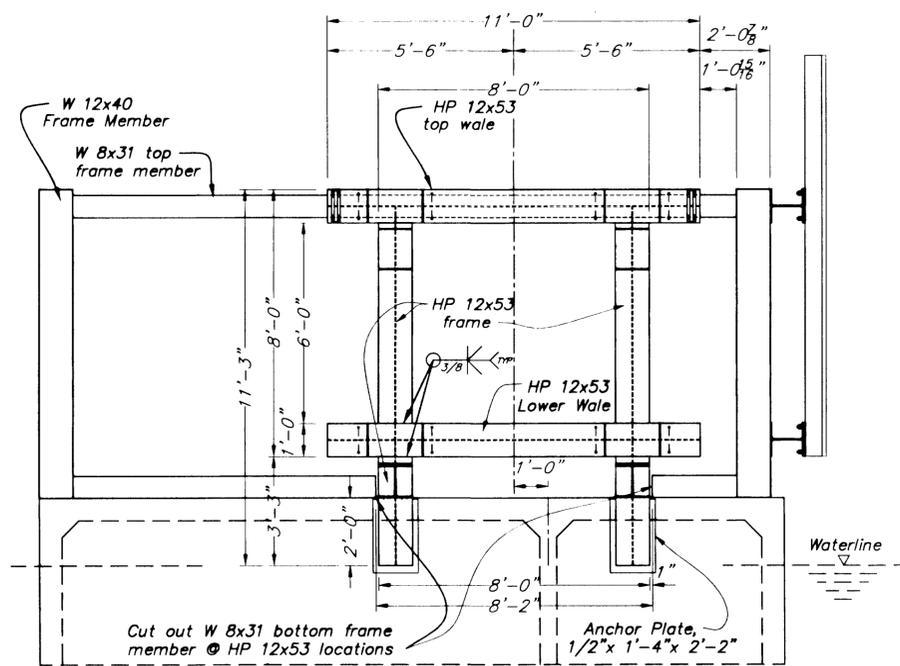
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(87) / 87857
FLOAT FENDER PANEL DETAILS

DESIGNED BY: Savikko	PROJECT NO. 87857
DRAWN BY: Robertson	DATE: November 2000
CHECKED BY: Miller	SHEET 70 OF 87

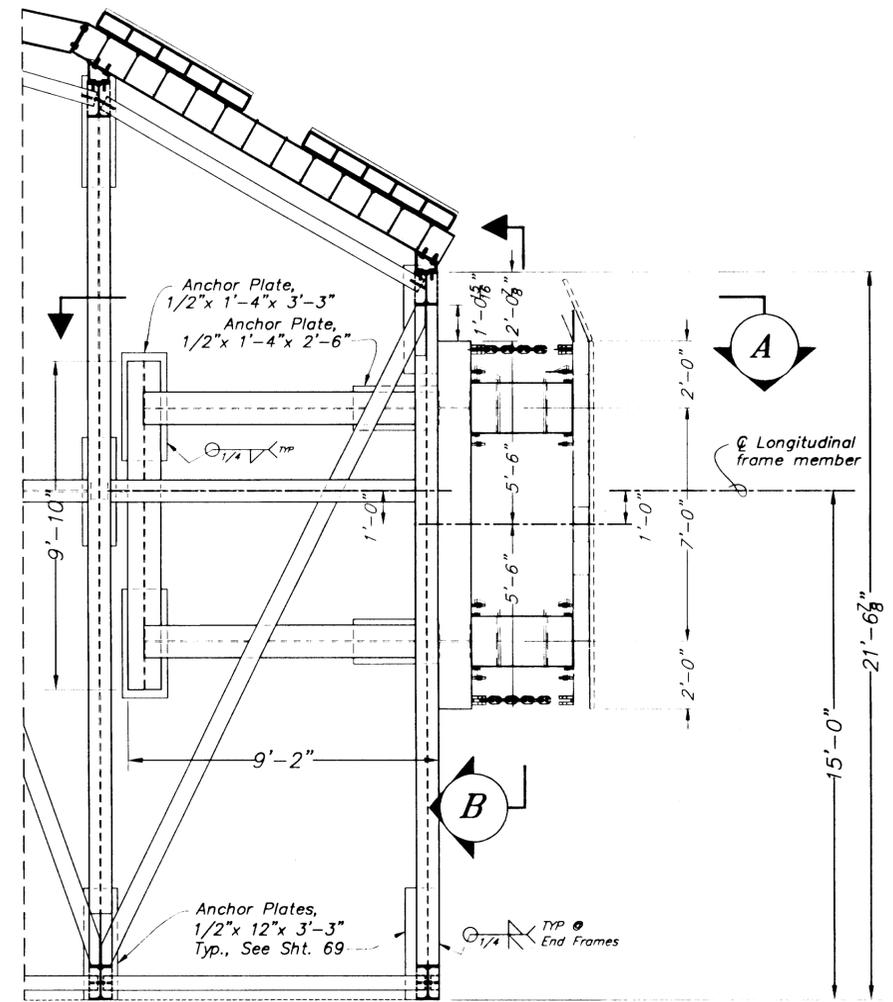




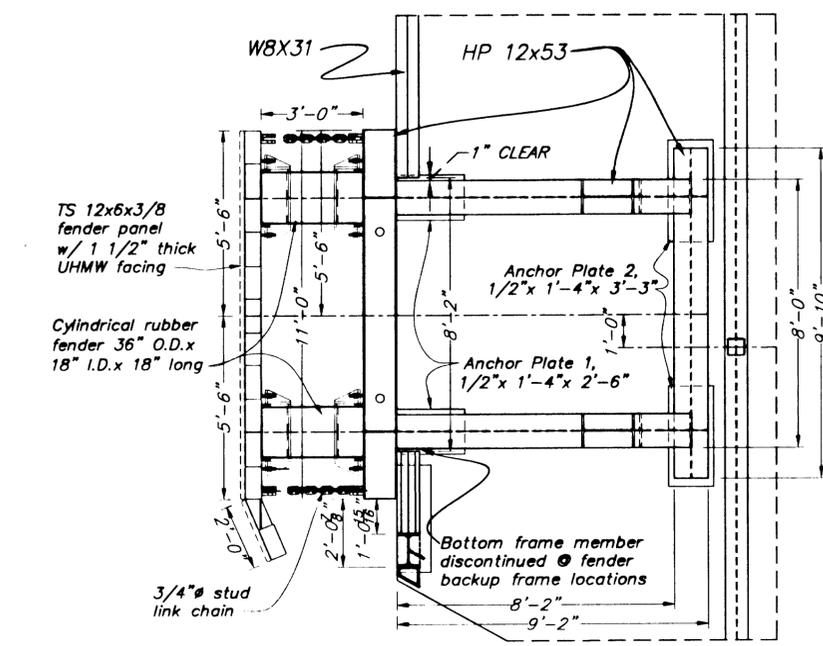
SECTIONAL ELEVATION A



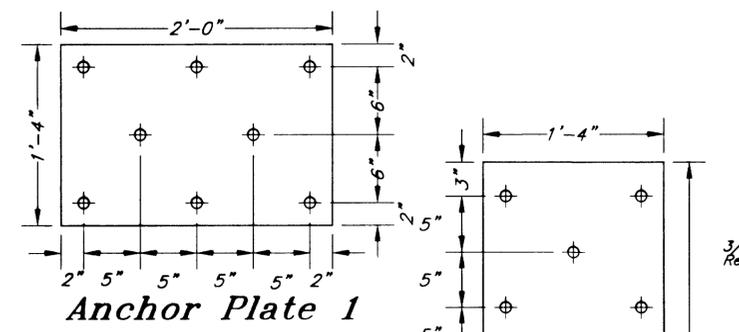
SECTIONAL ELEVATION B



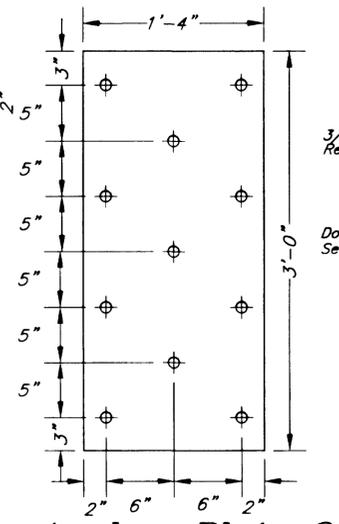
PLAN VIEW, LAYOUT



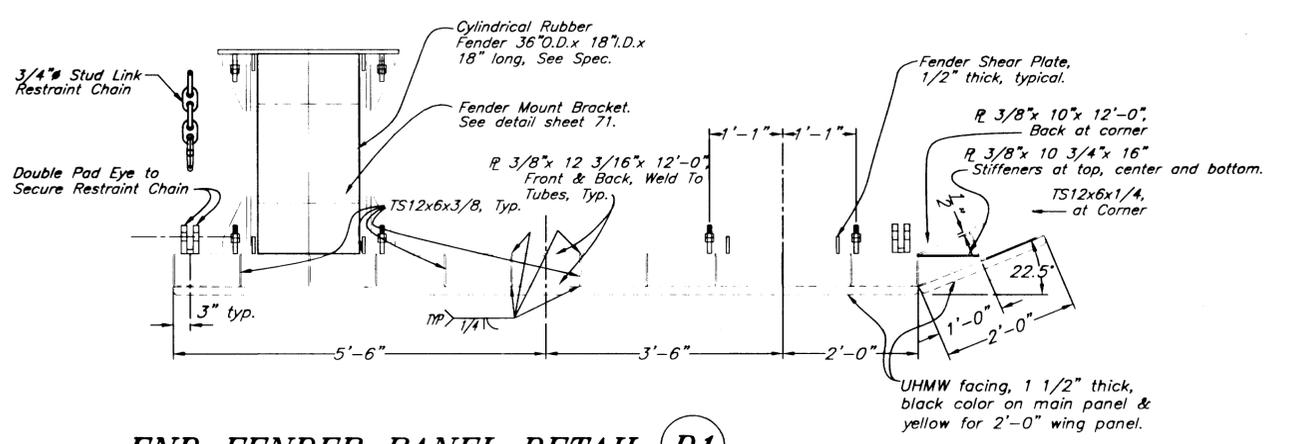
SECTIONAL FRAME PLAN C



Anchor Plate 1



Anchor Plate 2



END FENDER PANEL DETAIL D1
(one req'd. seaward end only)

AUXILIARY FENDER ANCHOR PLATES

PATH: Q:\ktn\67857\PlanSet\s71-Auxiliary Fender Panel.dwg		
PLOT:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

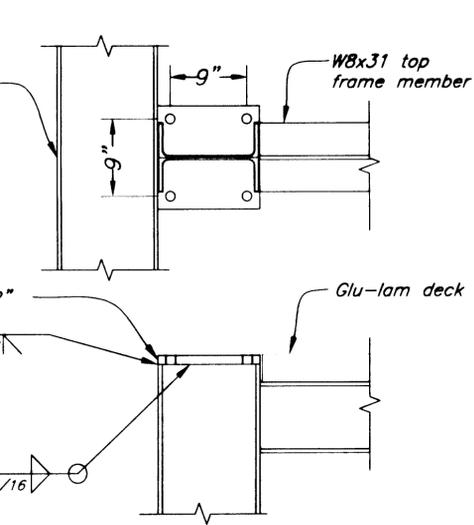
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
AUXILIARY FENDER DETAILS

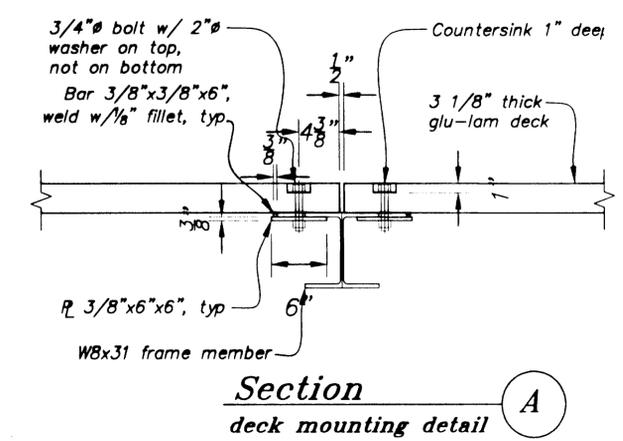
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: Savikko	PROJECT NO. 67857
DRAWN BY: Robertson	DATE: November 2000
CHECKED BY: Miller	SHEET 71 OF 87

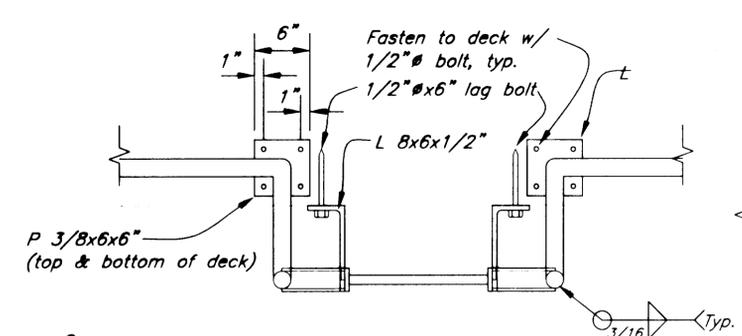




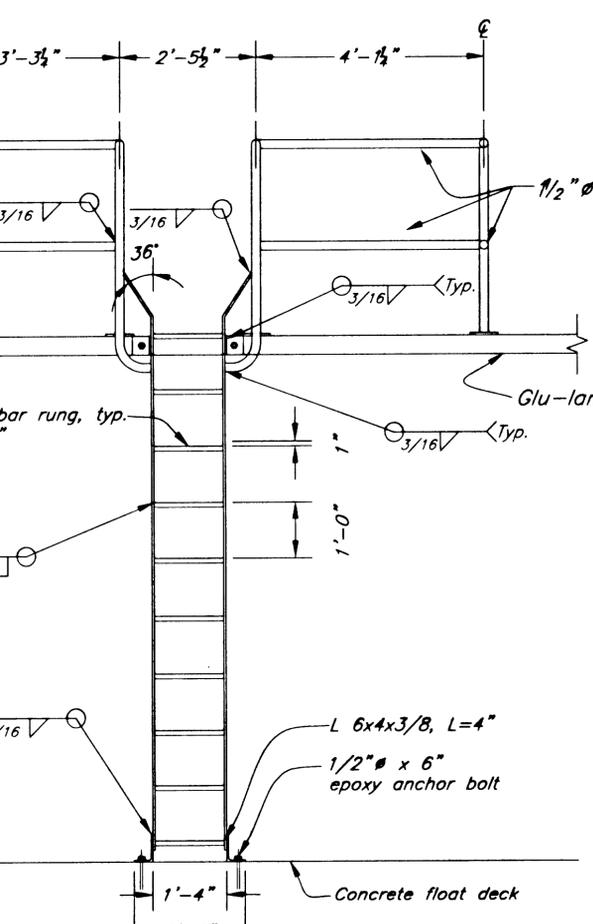
Luminaire Base Mounting Plate



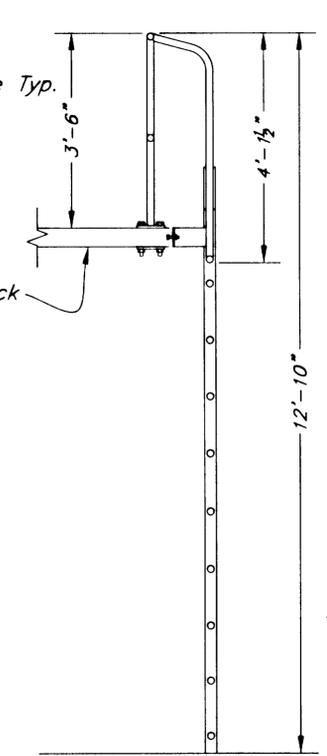
Section deck mounting detail



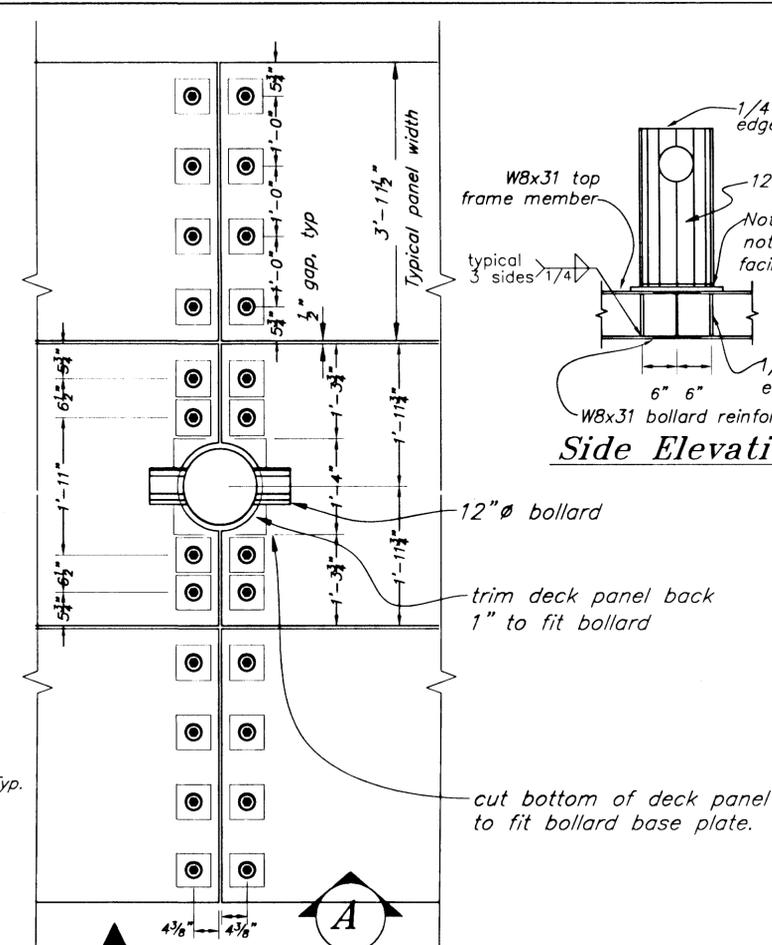
Access Ladder Plan



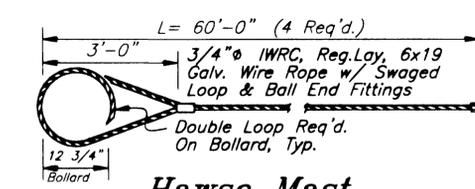
Access Ladder Front Elevation



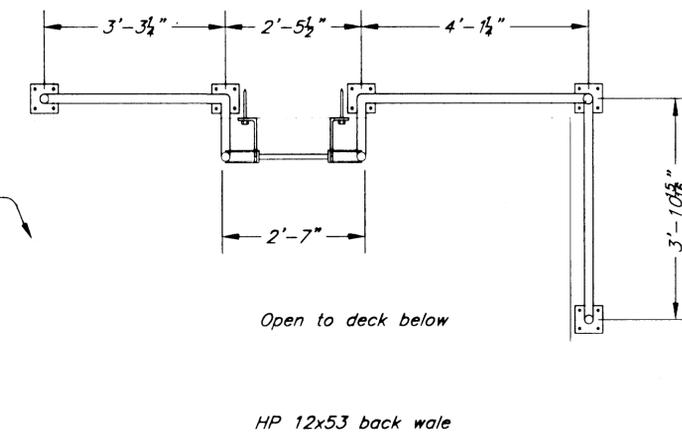
Access Ladder Side Elevation



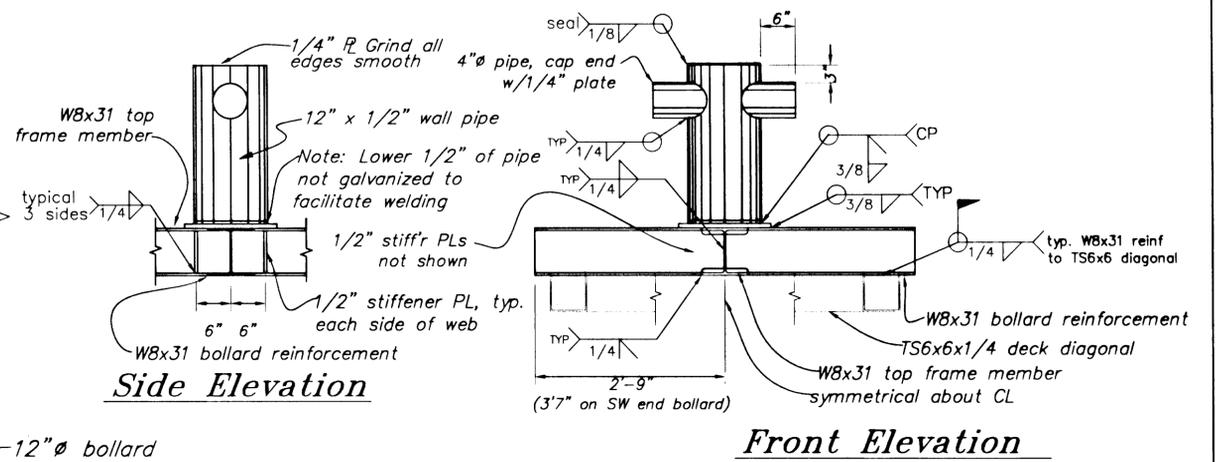
Deck Panels Plan View



Hawse Mast

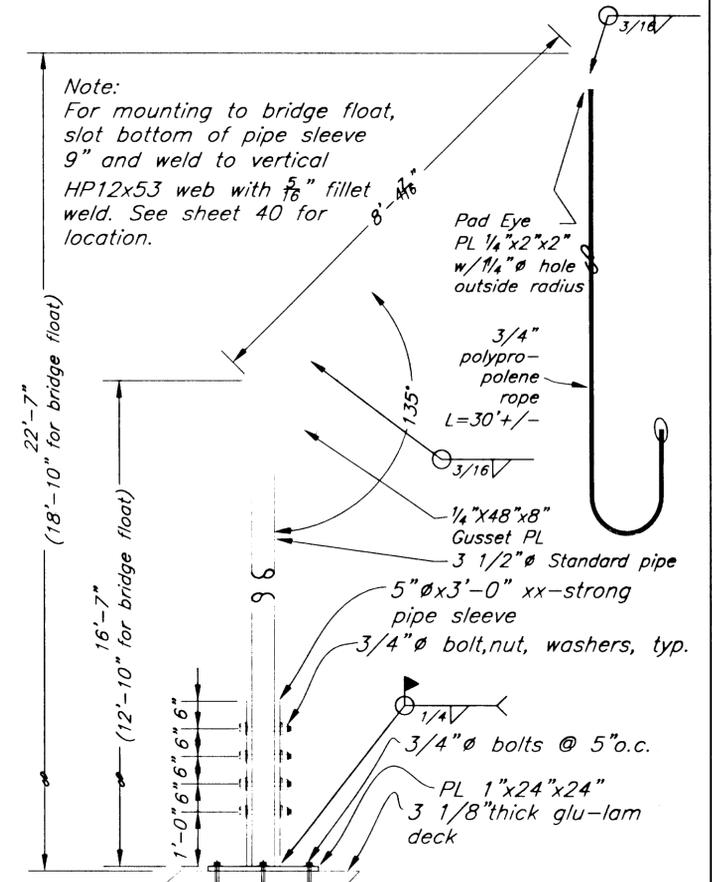


Access Ladder & Rail - Plan View



Bollard Detail

Note: Bridge support float bollards similar except weld bollard as shown directly to embedded plate. (see sheet 39 for embedded plate details)



Hawse Mast Elevation
(4 req'd - locate as directed by the Engineer)

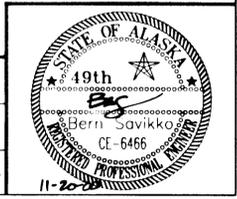
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

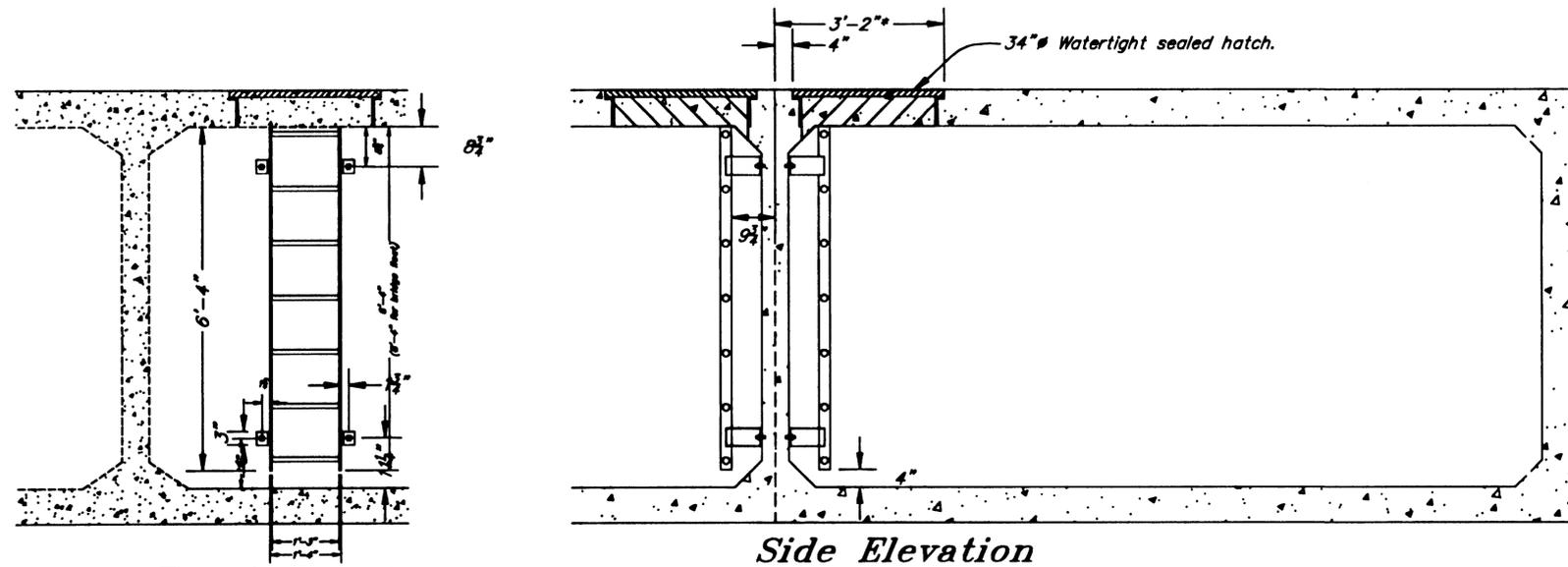
57\Planset\s72-Misc Fender Float Details.dwg
DESCRIPTION OF CHANGE:
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
MISCELLANEOUS FENDER FLOAT DETAILS

DESIGNED BY: Savikko	PROJECT NO. 67857
DRAWN BY: Robertson	DATE: November 2000
CHECKED BY: Miller	SHEET 72 OF 87

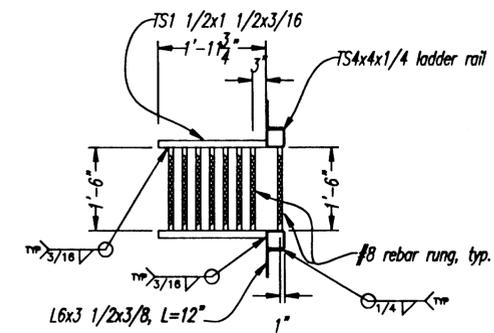




Front Elevation

Side Elevation

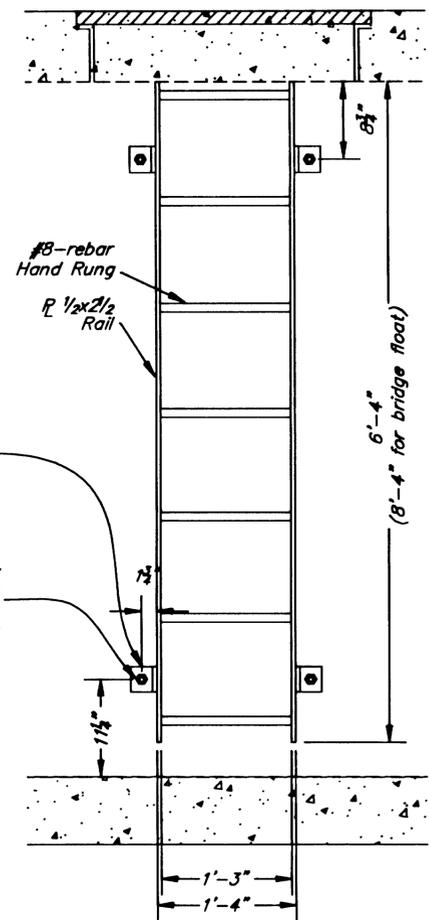
Interior Access Detail



Ladder Plan

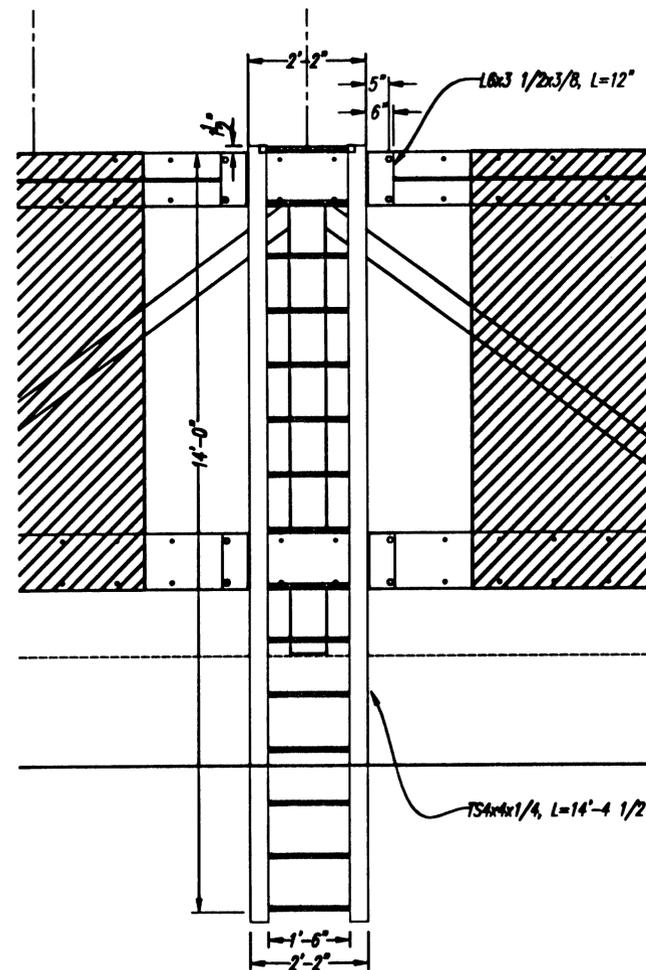
L8x4x1/2 (*size may change with hatch location)

Epoxy Grout Anchor Bolts

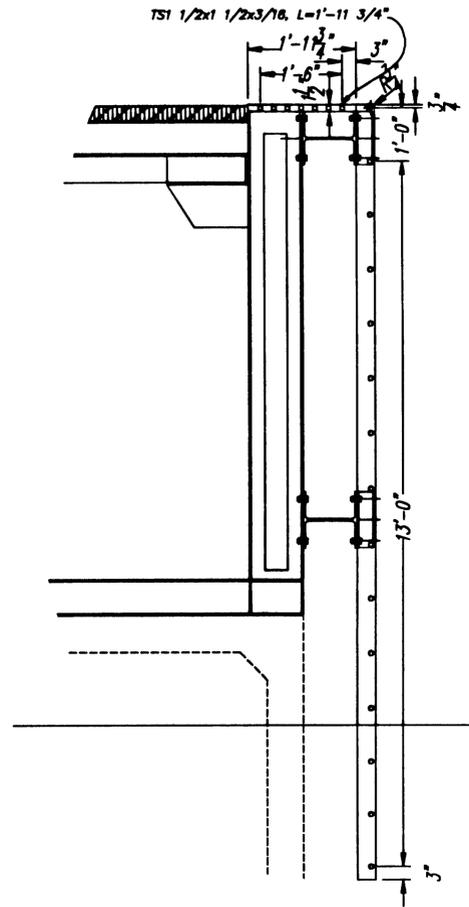


Hatch & Ladder Elevation

Note: Access ladder for bridge float similar.

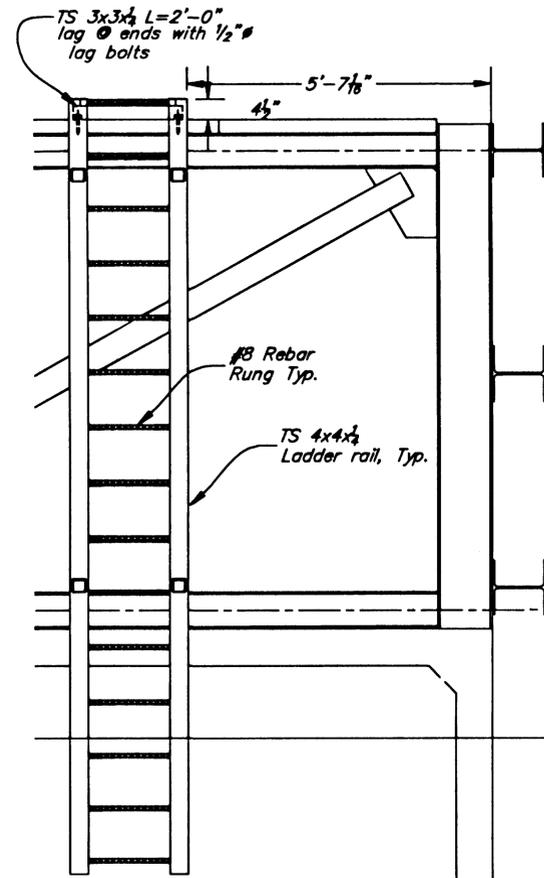


Front Elevation

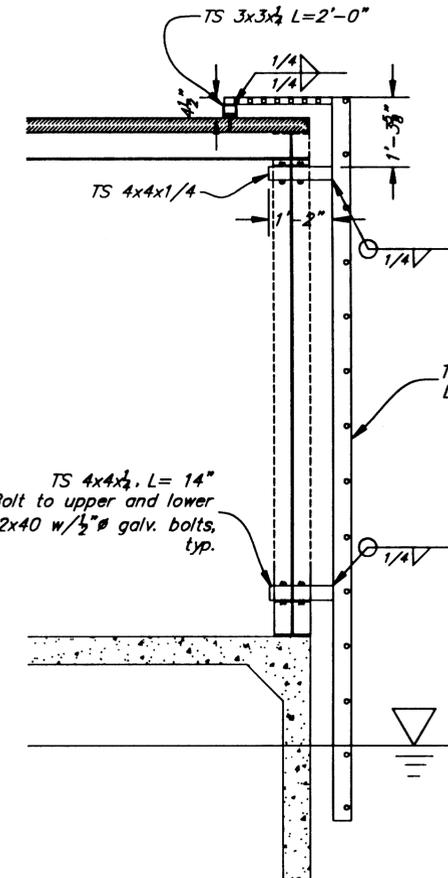


Side Elevation

Front & Back Safety Ladder Details

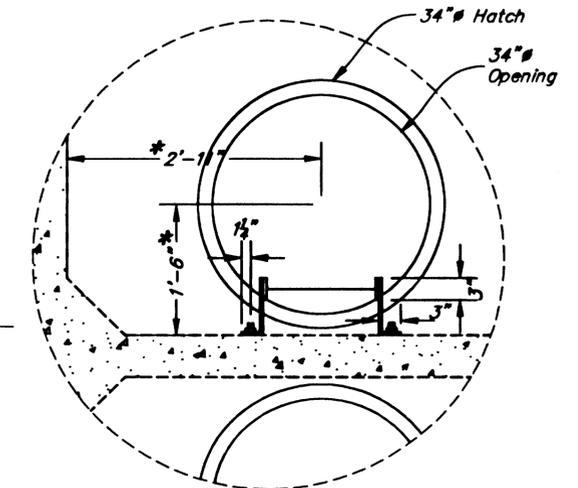


Front Elevation



Side Elevation

End Frame Ladder Details



Hatch & Ladder Plan

* Location of hatch cover may vary slightly to accommodate float prestressing and reinforcement design.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

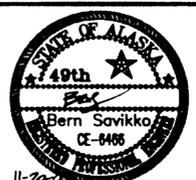
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PLOT:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

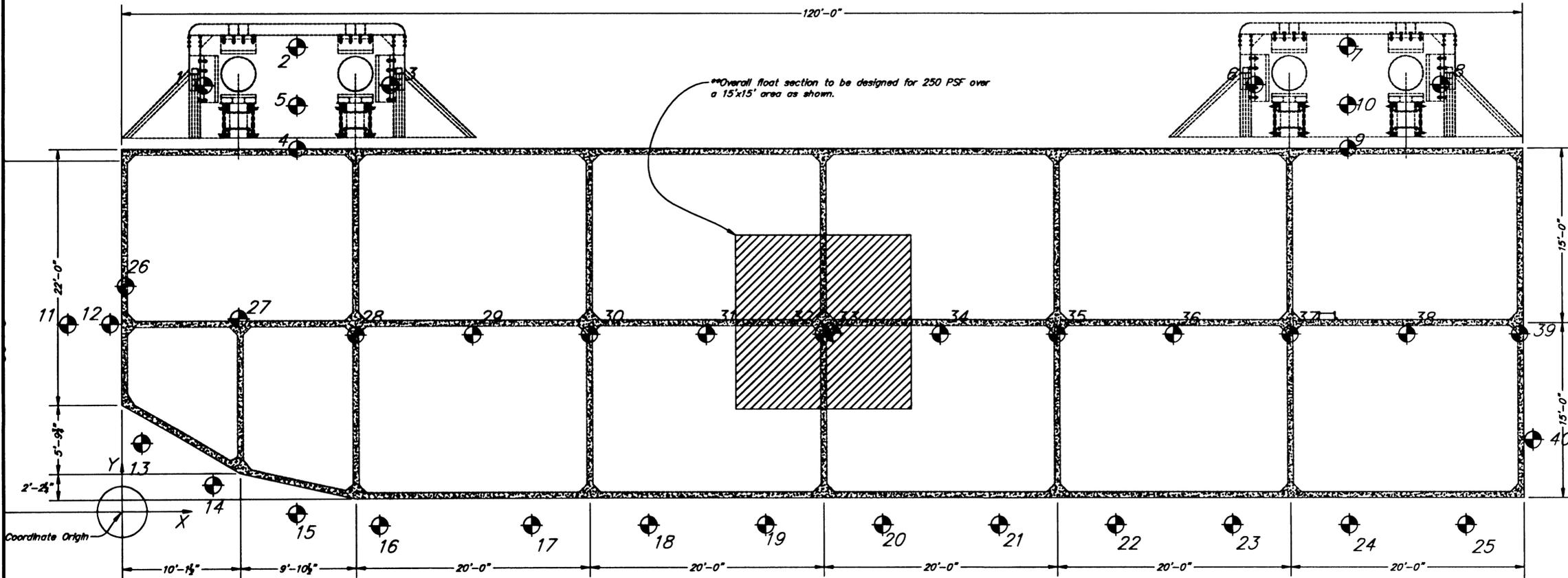
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(87) / 67857
FENDER FLOAT LADDER & HATCH DETAILS

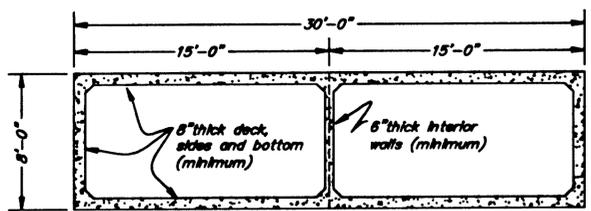
DESIGNED BY: Savikko
DRAWN BY: Robertson
CHECKED BY: Miller

PROJECT NO. 67857
DATE: November 2000
SHEET 73 OF 87





Plan View



Sectional Elevation

FLOAT EXTERNAL DESIGN LOADS									
Point	Coordinates (ft.)		Dead Load (kips)		Live Load (kips)		Load Case	Remarks	
	X	Y	Fz	Fy	Fx	Fz			
1	7.04	36.48			-45.00		Side Berth Load	C.G. For Collar Load	
2	15.00	39.73				94.00	Mooring Load	C.G. Collar Live Load	
3	22.96	36.49			15.00		Wind Load	C.G. Collar Live Load	
4	15.00	30.99				-132.00	Wind/Wave/Currents	C.G. For Collar Load	
5	15.00	34.73	-14.00				PL	C.G. Dead Load	
6	97.04	36.48			-45.00		Side Berthing Load	C.G. For Collar Load	
7	105.00	39.74				94.00	Mooring Load	C.G. For Collar Load	
8	112.96	36.49			15.00		Wind Load	C.G. For Collar Load	
9	105.00	30.99				-132.00	Wind/Wave/Currents	C.G. For Collar Load	
10	105.00	34.74	-14.00				DL	C.G. Dead Load	
11	-4.80	18.00			80.00		Berthing Load	C.G. Fender Live Load	
12	-0.98	18.00	-17.00				DL	C.G. Dead Load	
13	1.71	5.70	-2.90		88.00	34.00	Berthing Load	C.G. Collar Live Load	
14	7.78	2.20	-2.90				DL	C.G. Dead Load	
15	14.82	-0.25	-5.10				DL	C.G. Dead Load	
16	22.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
17	35.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
18	45.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
19	55.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
20	65.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
21	75.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
22	85.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
23	95.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
24	105.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
25	115.00	-1.27	-1.60		27.00		Wind/Wave/Currents	Front Face Of Barge	
26	0.33	19.21	-3.40			-30.00	100 PSF LL+DL	Deck Frame Load	
27	10.00	16.42	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
28	20.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
29	30.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
30	40.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
31	50.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
32	60.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
33	60.79	15.00	-34.00			-30.00	Dead Load	Centroid of Glu-Lam Deck, Dead Load	
34	70.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
35	80.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
36	90.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
37	100.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
38	110.00	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
39	119.67	15.00	-4.40			-30.00	100 PSF LL+DL	Deck Frame Load	
40	120.79	5.83	-3.00			-6.00	100 PSF DL+LL	Top Of Gangway	
41	60.00	15.98				-60.00	250 PSF LL	Section capacity live load	

GENERAL DESIGN CRITERIA:
 Wave Load: Height = 4 feet ; Period = 4 sec
 Wave Load Direction: Perpendicular to long axis of barge
 Oblique at 45° to long axis of barge
 Uniform Load:
 600 psf sides & bottom
 250 psf deck
 Concentrated: 2000 lb over 1 sf ; sides & bottom
 Watertightness: Full hydrostatic head @ 64 pcf water density
 Freeboard: Contractor's design shall provide a minimum unballasted freeboard of 2'-6" under all dead loads. Ballast with fresh water to operational freeboard of 2'-0".

DESIGN LOADING
 LOAD CONDITION 1 -- Berthing Loads + Dead Load
 LOAD CONDITION 2 -- Mooring Loads + Wind, wave, current @ 3,4,8,9 + Dead Load
 LOAD CONDITION 3 -- Wind, Wave, Currents @ 16 thru 25 + Dead Load
 LOAD CONDITION 4 -- 60 kips over a 15'x15' area (41) + Dead Load

NOTES:
 COORDINATES REPRESENT APPROXIMATE CENTROID OF LOAD FROM STRUCTURE OR STRUCTURE COMPONENT. LOADS PROVIDED ARE UNFACTORED. USE APPROPRIATE LOAD FACTORS WHEN DESIGNING FLOAT. USE THIS CHART ONLY FOR PURPOSES OF DETERMINING APPROPRIATE STRUCTURAL DETAILING FOR FLOAT.

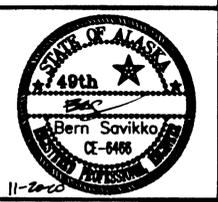
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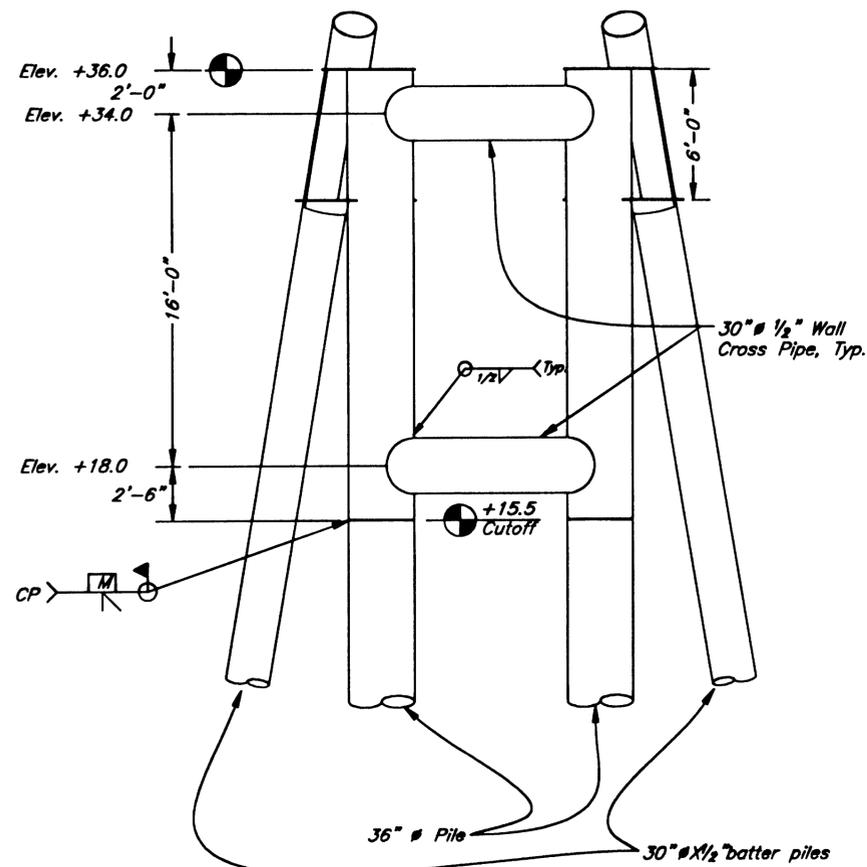
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PLOT:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

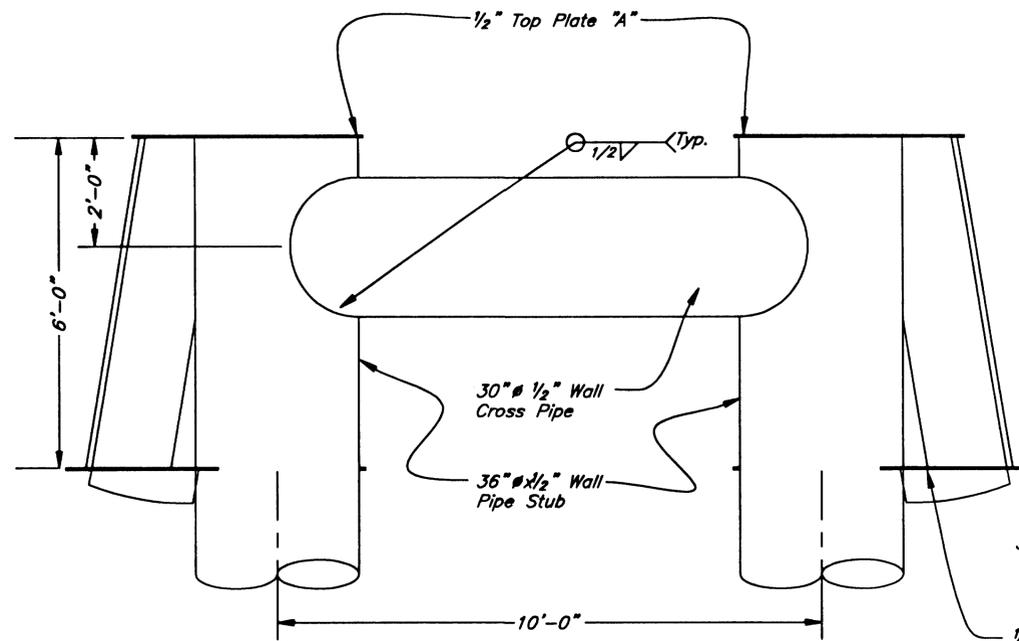
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
 Project No. MGS - 0003(87) / 67857
CONCRETE FENDER FLOAT LAYOUT

DESIGNED BY:	Savikko	PROJECT NO.	67857
DRAWN BY:	Fuman	DATE:	November 2000
CHECKED BY:	Miller	SHEET	74 OF 87

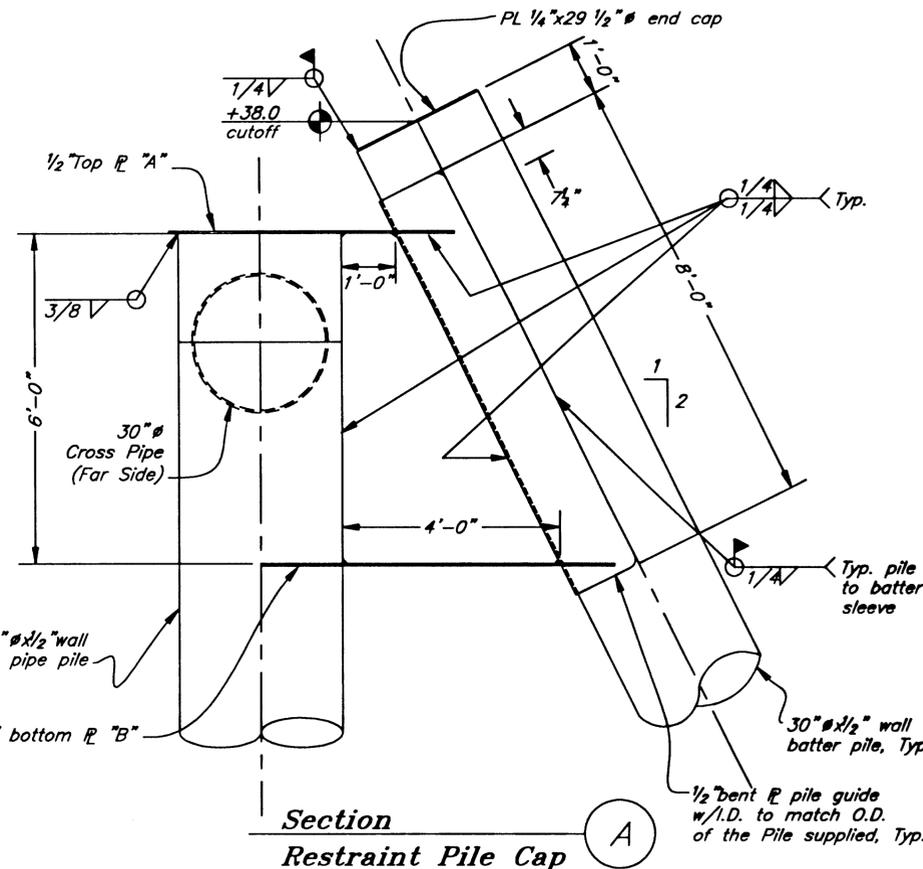




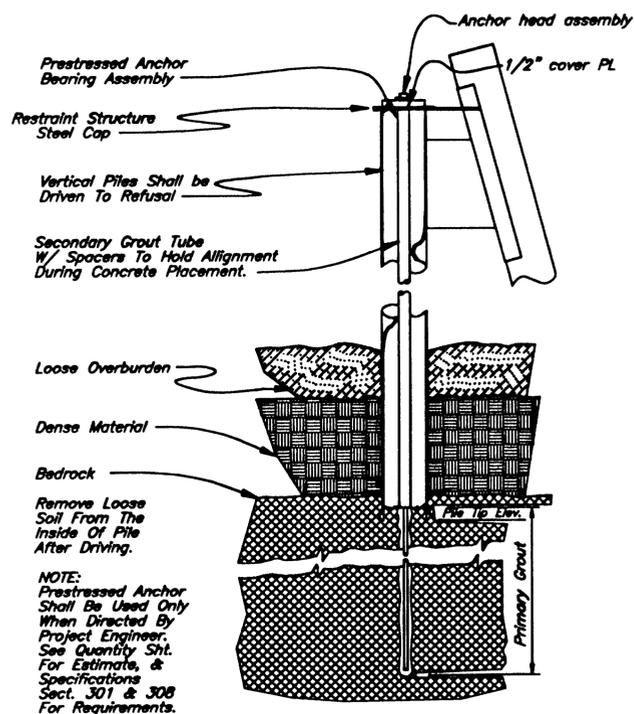
Restraint Pile Structure Elevation



**Restraint Pile Cap - Front Elevation
(Batter Piles Not Shown)**

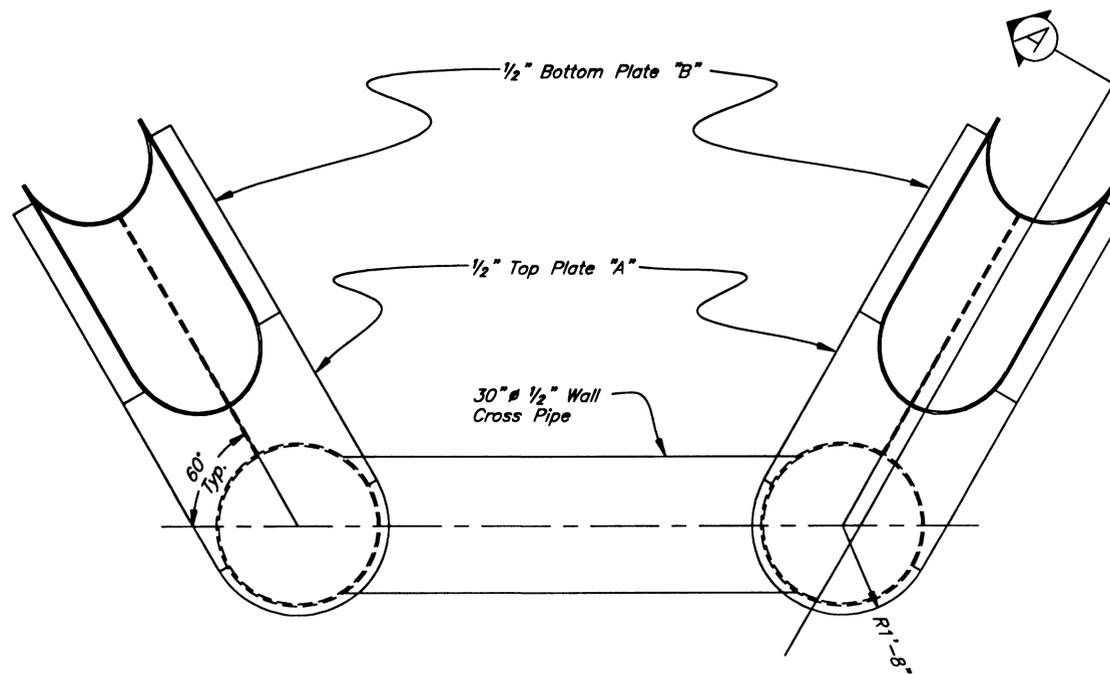


**Section
Restraint Pile Cap**

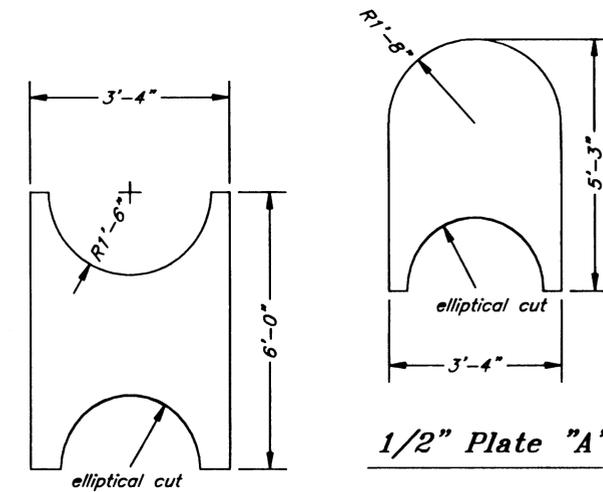


PRESTRESSED PILE ANCHOR

Submit Design for approval



**Restraint Pile Cap - Plan
(Batter Piles not shown)**



1/2" Plate "B"

Restraint Pile Cap Plates

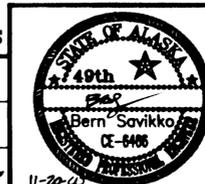
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PLOT:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

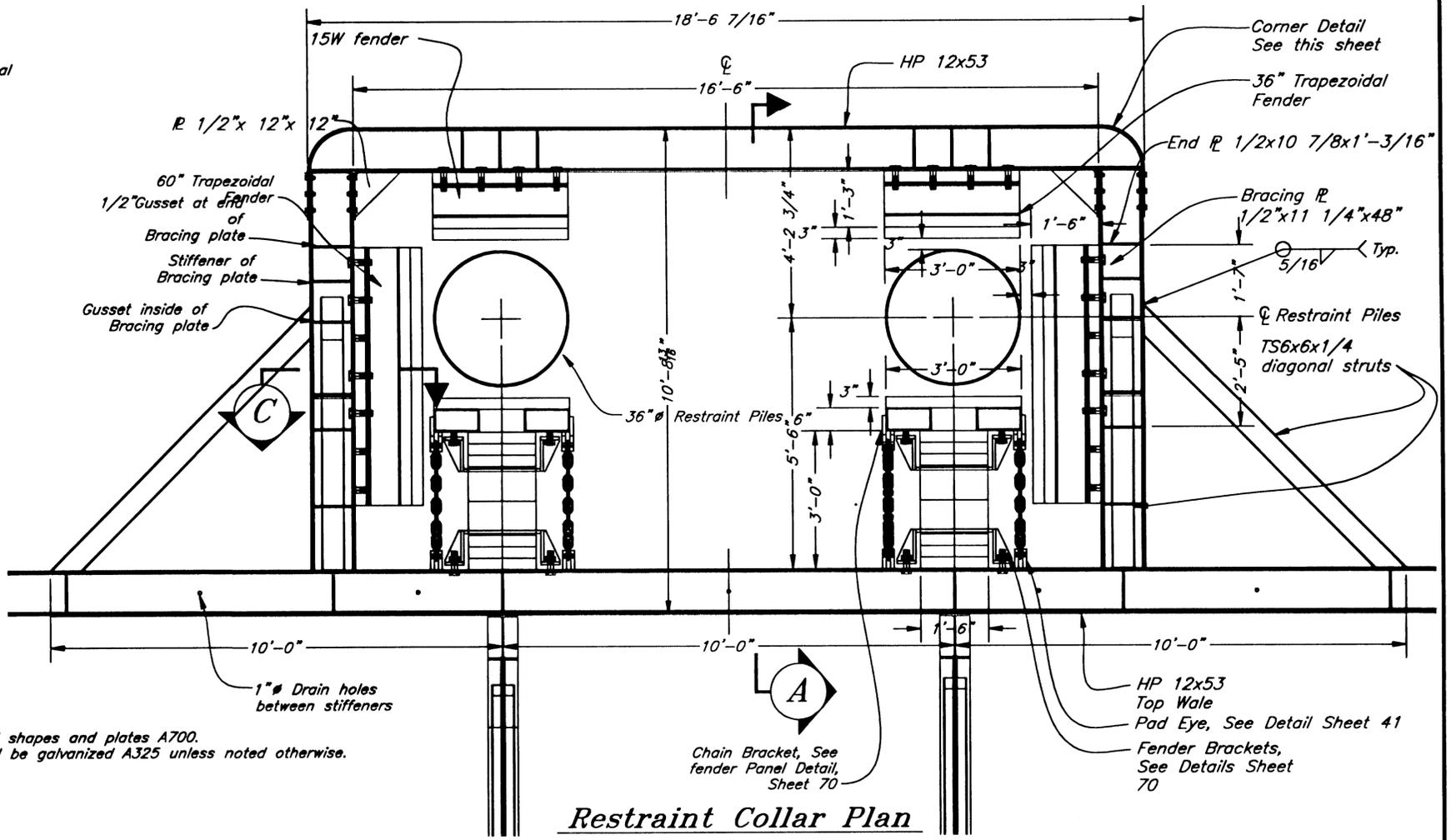
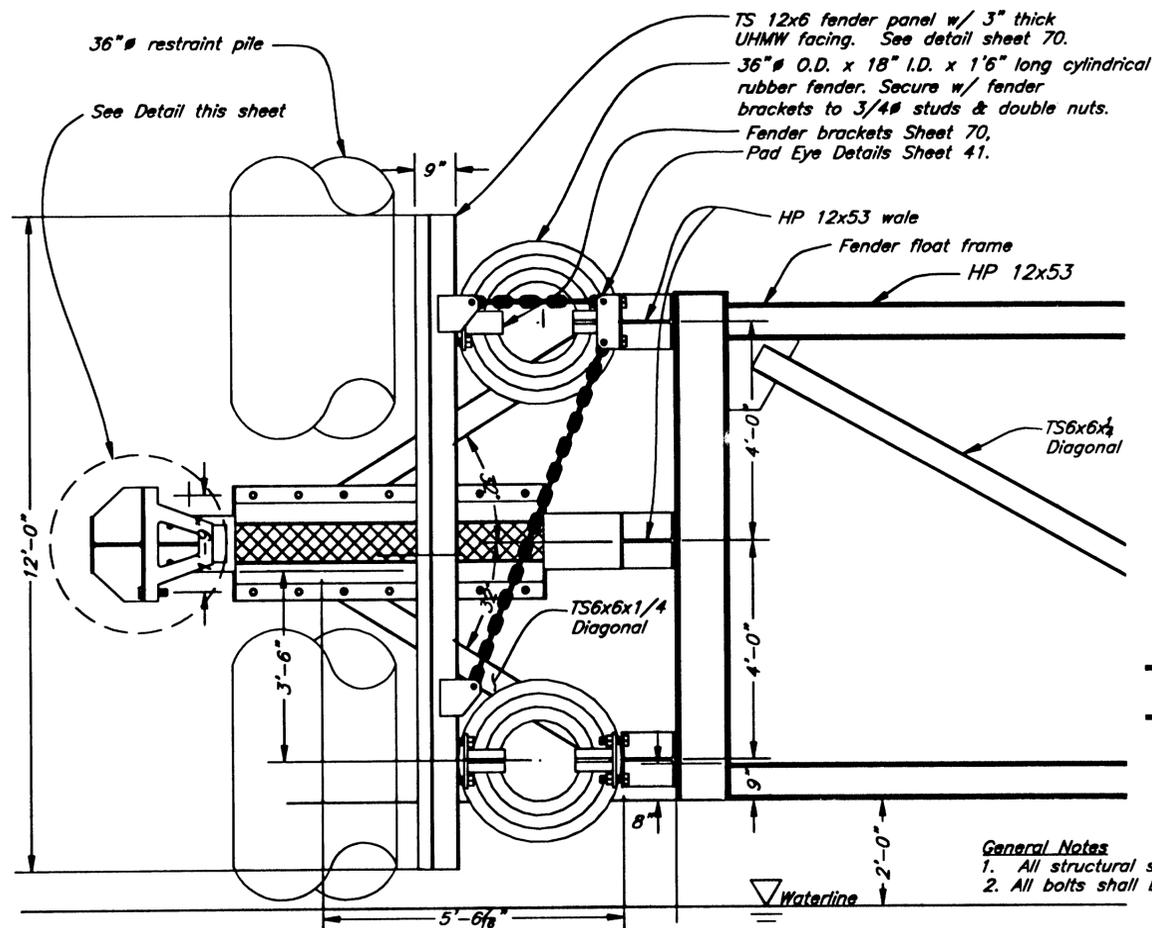
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(87) / 67857
FENDER FLOAT RESTRAINT PILE STRUCTURE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY:	Savikko	PROJECT NO.	67857
DRAWN BY:	Robertson	DATE:	November 2000
CHECKED BY:	Miller	SHEET	75 OF 87

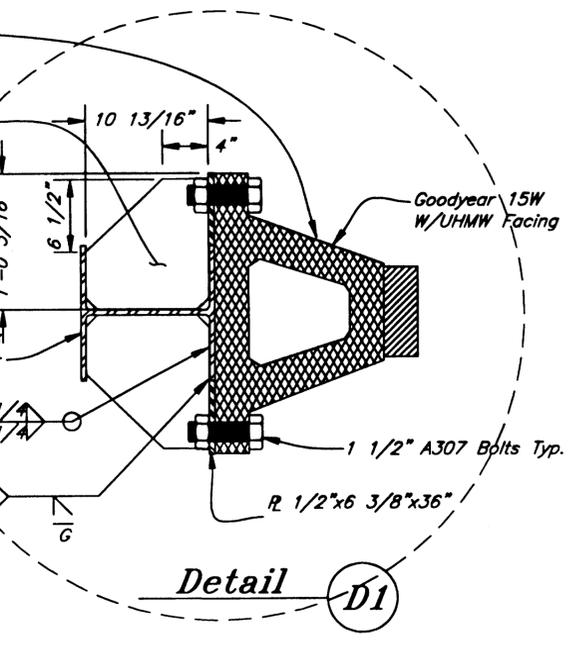
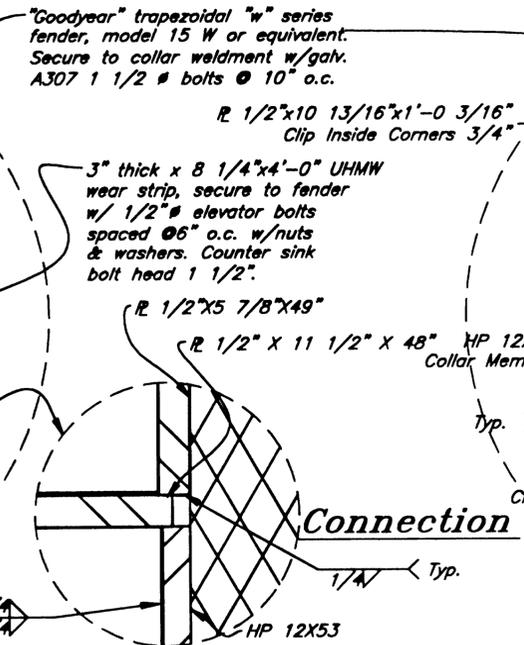
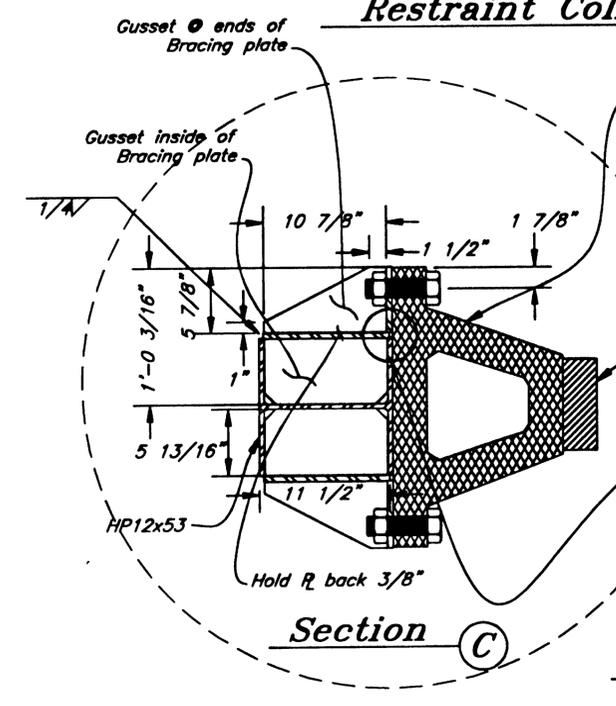




Restraint Collar Section A

Restraint Collar Plan

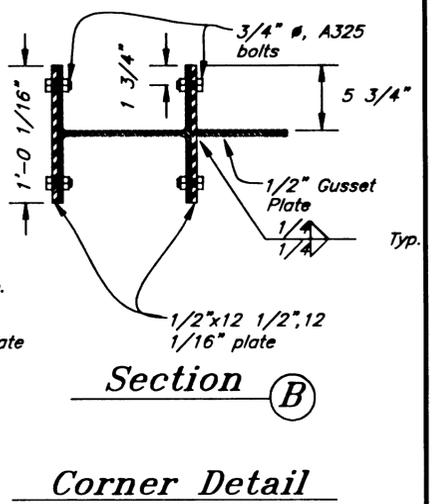
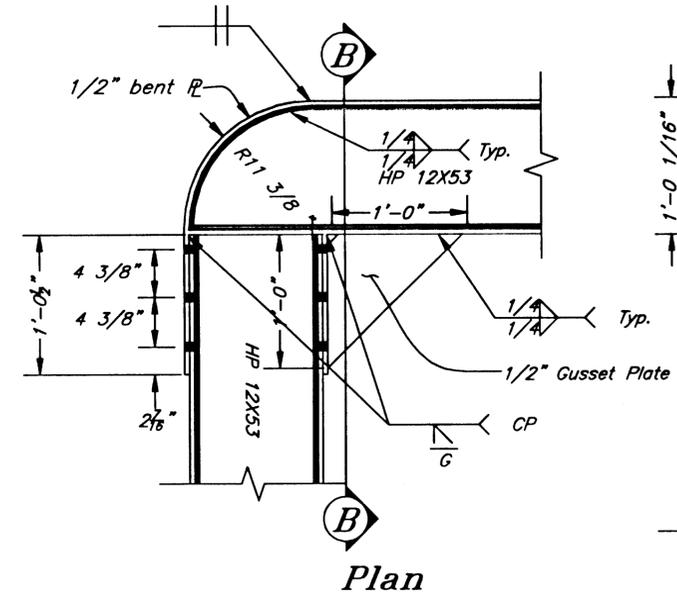
General Notes
 1. All structural shapes and plates A700.
 2. All bolts shall be galvanized A325 unless noted otherwise.



Section C

Connection

Detail D1



Plan

Corner Detail

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

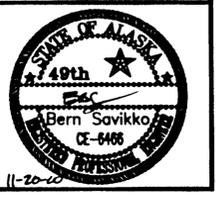
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

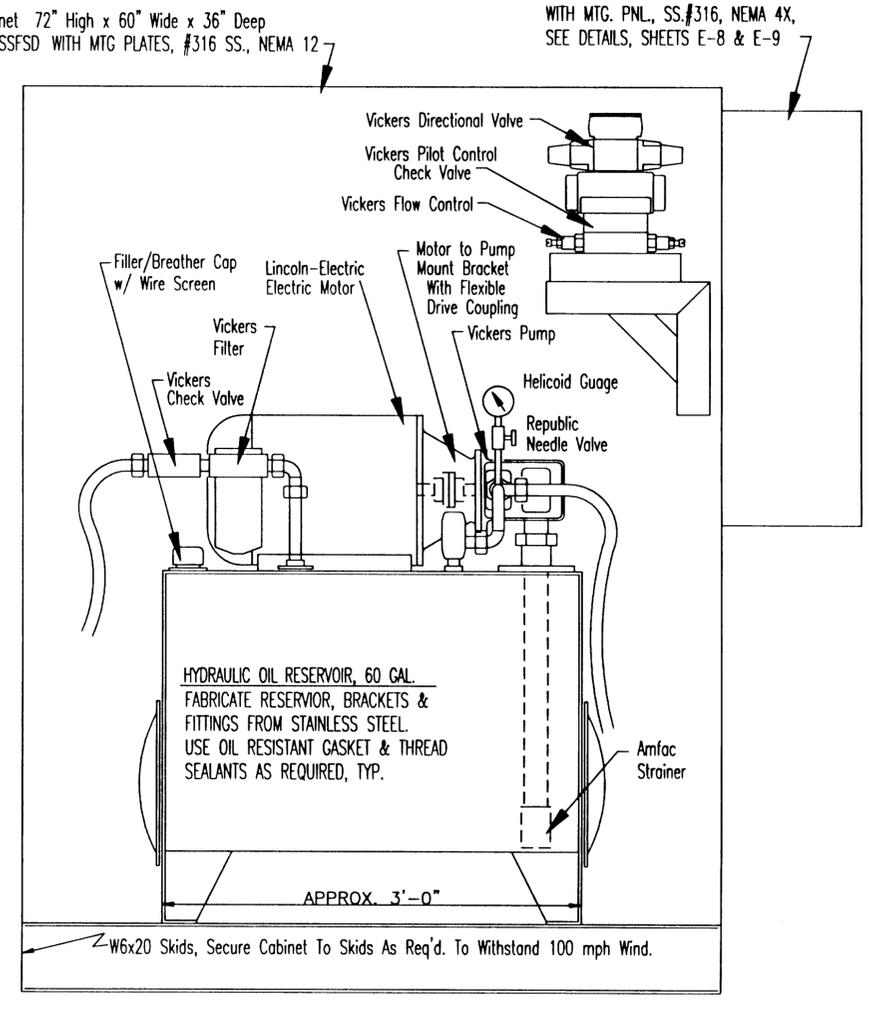
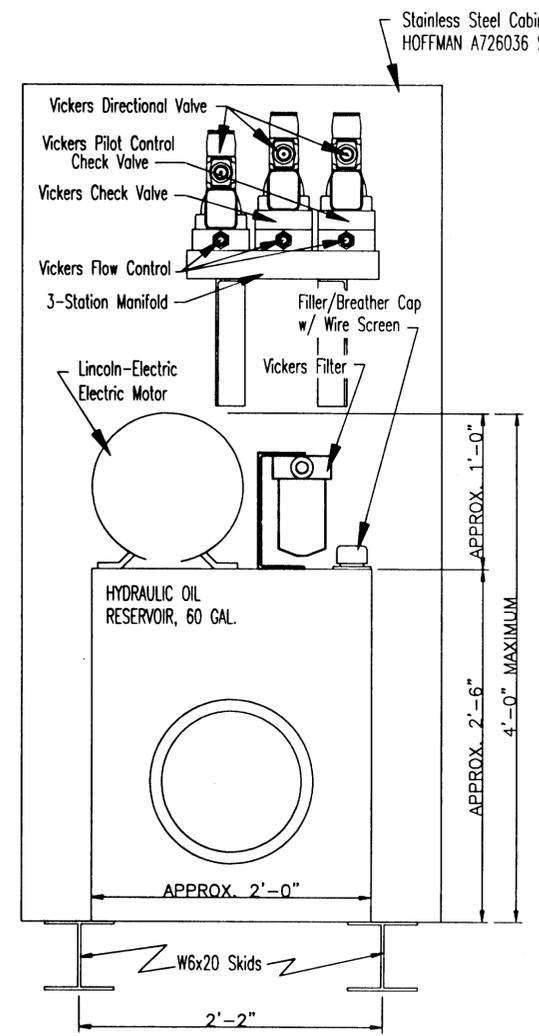
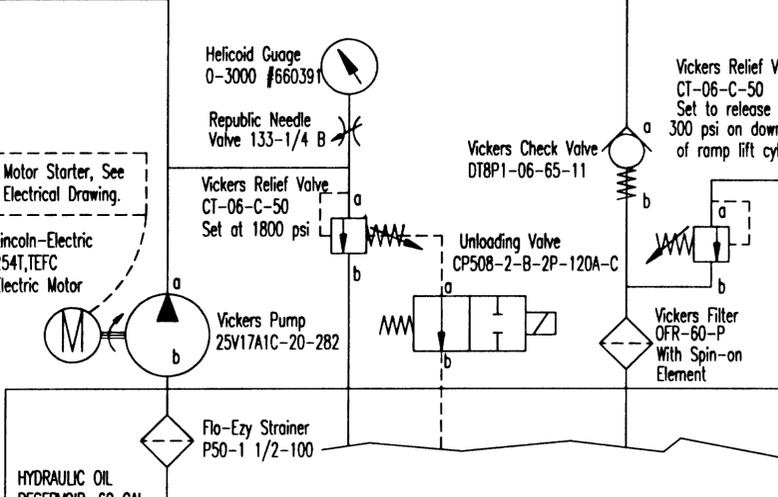
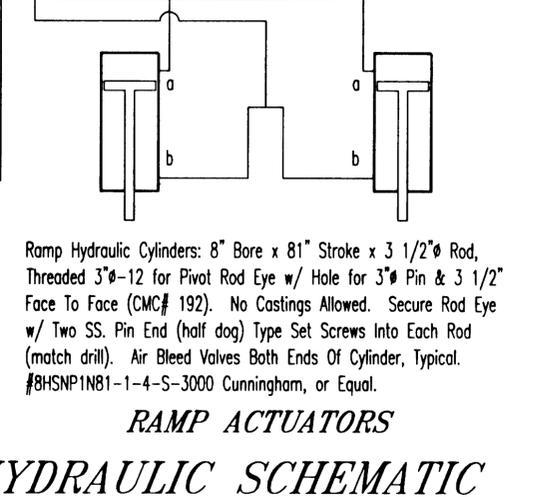
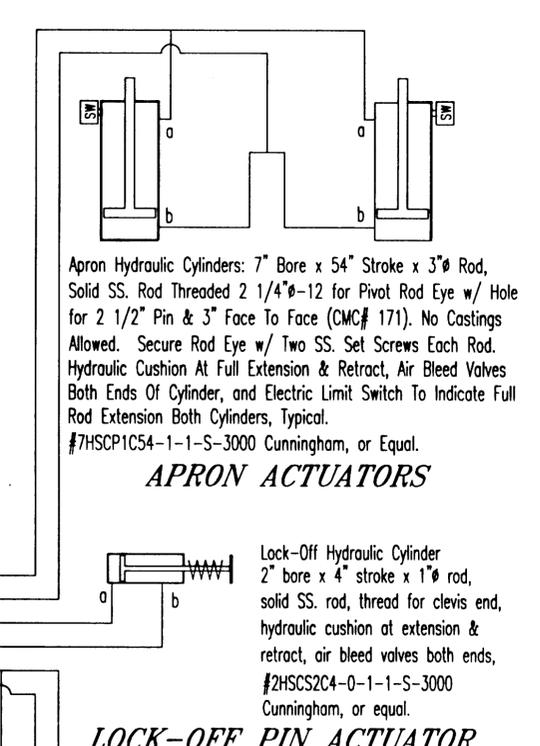
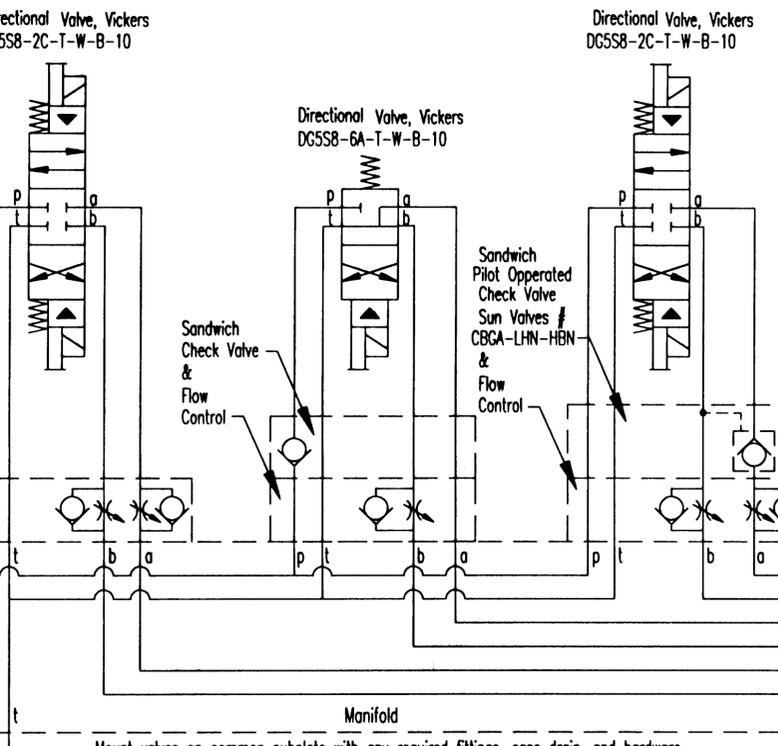
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(67) / 67857
PILE RESTRAINT COLLAR

ALASKA
 DESIGNED BY: Savikko
 DRAWN BY: Robertson
 CHECKED BY: Miller

PROJECT NO. 67857
 DATE: November 2000
 SHEET 76 OF 87





HYDRAULIC POWER UNIT

THIS SKETCH IS TO SHOW THAT THE RESERVOIR, MOTOR, PUMP, VALVES & FILTERS WILL COMBINE INTO A COMPACT UNIT

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NO.	DESCRIPTION OF CHANGE:

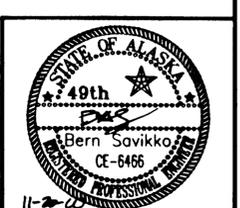
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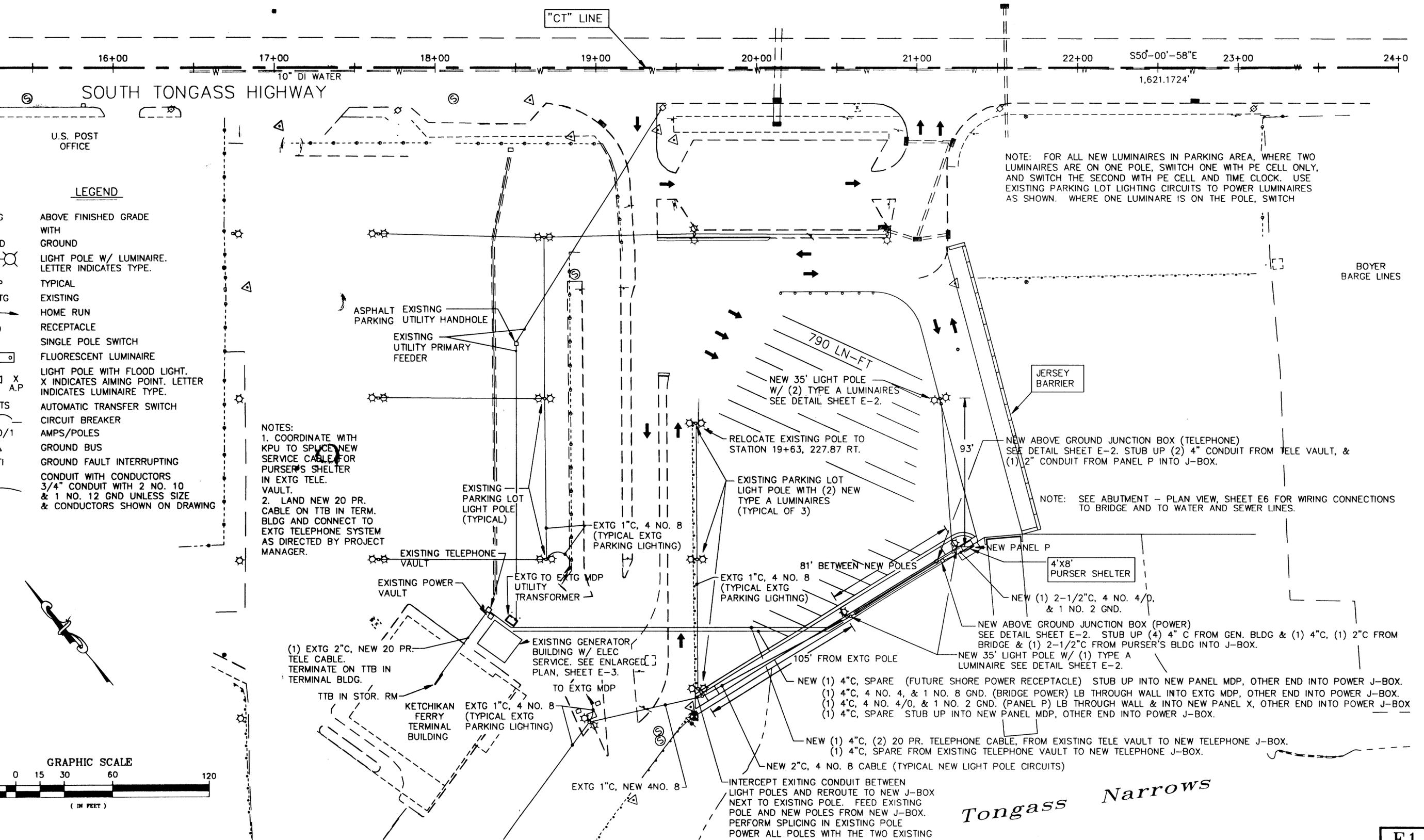
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
ALASKA
HYDRAULIC POWER UNIT

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: Savikko	PROJECT NO. 67857
DRAWN BY: Nelson	DATE: November 2000
CHECKED BY: Miller	SHEET 77 OF 87





SOUTH TONGASS HIGHWAY

"CT" LINE

NOTE: FOR ALL NEW LUMINAIRE IN PARKING AREA, WHERE TWO LUMINAIRE ARE ON ONE POLE, SWITCH ONE WITH PE CELL ONLY, AND SWITCH THE SECOND WITH PE CELL AND TIME CLOCK. USE EXISTING PARKING LOT LIGHTING CIRCUITS TO POWER LUMINAIRE AS SHOWN. WHERE ONE LUMINAIRE IS ON THE POLE, SWITCH

LEGEND

- ABOVE FINISHED GRADE WITH GROUND
- LIGHT POLE W/ LUMINAIRE. LETTER INDICATES TYPE.
- TYPICAL EXISTING
- HOME RUN
- RECEPTACLE
- SINGLE POLE SWITCH
- FLUORESCENT LUMINAIRE
- LIGHT POLE WITH FLOOD LIGHT. X INDICATES AIMING POINT. LETTER INDICATES LUMINAIRE TYPE.
- AUTOMATIC TRANSFER SWITCH
- CIRCUIT BREAKER
- AMPS/POLES
- GROUND BUS
- GROUND FAULT INTERRUPTING
- CONDUIT WITH CONDUCTORS
- 3/4" CONDUIT WITH 2 NO. 10 & 1 NO. 12 GND UNLESS SIZE & CONDUCTORS SHOWN ON DRAWING

NOTES:
 1. COORDINATE WITH KPU TO SPLICE NEW SERVICE CABLE FOR PURSER'S SHELTER IN EXTG TELE. VAULT.
 2. LAND NEW 20 PR. CABLE ON TTB IN TERM. BLDG AND CONNECT TO EXTG TELEPHONE SYSTEM AS DIRECTED BY PROJECT MANAGER.

NOTE: SEE ABUTMENT - PLAN VIEW, SHEET E6 FOR WIRING CONNECTIONS TO BRIDGE AND TO WATER AND SEWER LINES.

Tongass Narrows

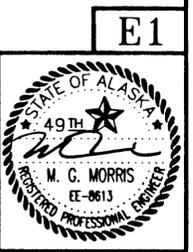
DESCRIPTION OF CHANGE:
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KETCHIKAN
 KETCHIKAN TRANSFER FACILITY
 MGS-000(67)
 ALASKA
 ELECTRICAL SITE PLAN

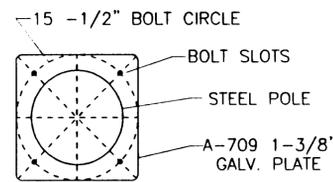
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: IHH ELECTRICAL	PROJECT NO. 67857
DRAWN BY: SHS	DATE: NOVEMBER 2000
CHECKED BY: MORRIS	SHEET 78 OF 87



E1

LUMINAIRE SHALL BE 400 W HPS, TYPE III DIST. HOUSING SHALL BE EXTRUDED ALUMINUM WITH NATURAL ANODIZED FINISH. STERNER EX25A103N-400S-MT-R OR STERNER EX25A283N-400S-MT-R FOR 2 HEADS IF TWO HEADS ARE REQUIRED MOUNT 180 DEGREES APART.

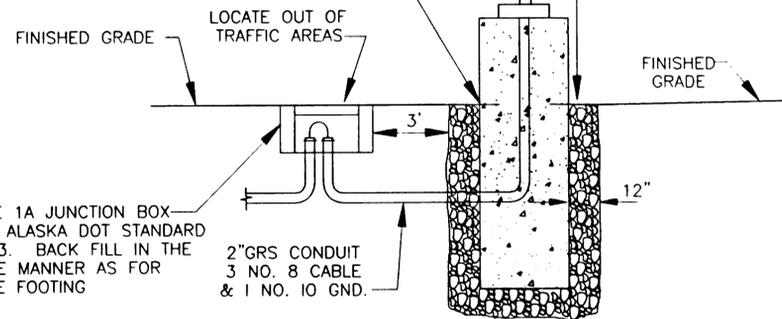


BOLT CIRCLE DETAIL
NOT TO SCALE

6" SQUARE 7 GAUGE GALVANIZED STEEL 35' POLE WITH HAND HOLE AT BASE. POLE SHALL BE A GARMIRE GSQ635-7GAUGE-GALV. POLE SHALL HAVE A 15-1/2" BOLT CIRCLE.

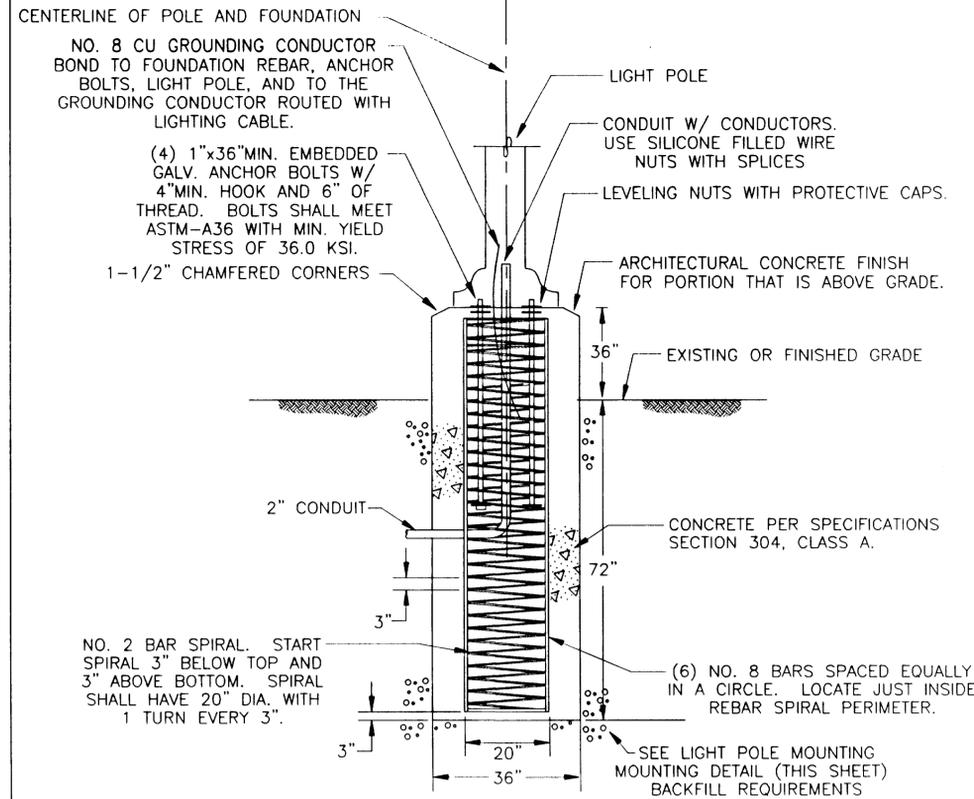
PROVIDE DOUBLE FUSE CONNECTOR KIT IN EACH POLE BASE. FUSE LUMINAIRE(S) WITH KIT. USE BUSS TYPE LP-CC-4 FUSES.

POLE BASE PER DETAIL

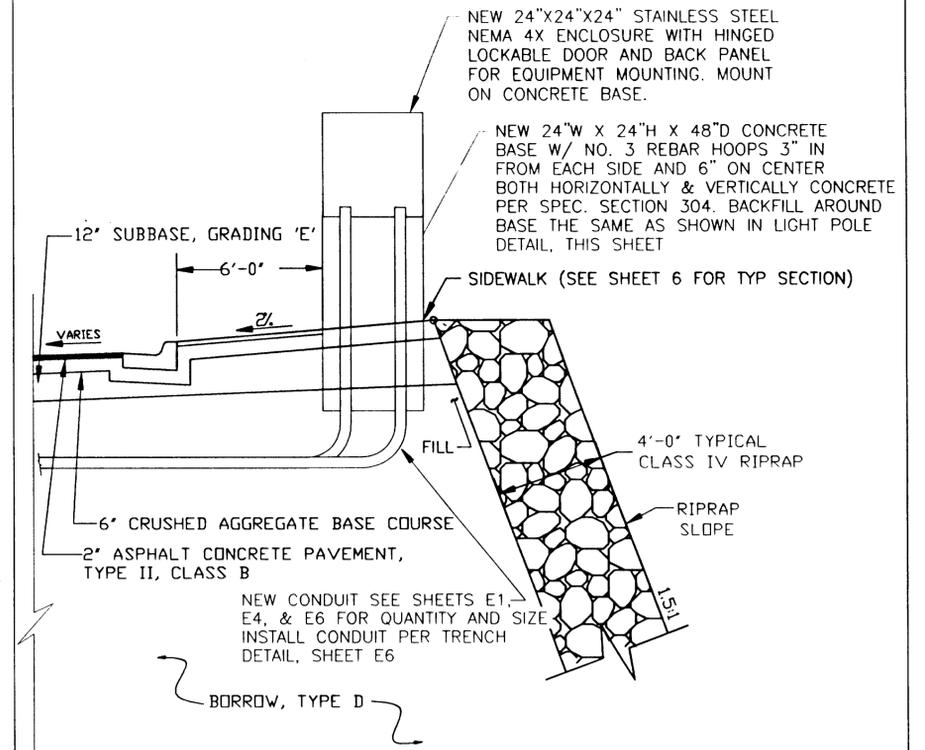


PARKING LOT LIGHT POLE MOUNTING DETAIL
NOT TO SCALE

- NOTES:
- 1) ALL SPLICES SHALL BE IN BASE OF POLE
 - 2) PROVIDE GROUNDING BUSHINGS ON CONDUIT
 - 3) PROVIDE FUSE KITS IN EACH POLE BASE.
 - 4) SIZE POLE FOR 120 MPH SUSTAINED WINDS WITH GUSTS TO 150 MPH. POLE DIMENSIONS SHOWN ARE THE MINIMUM.

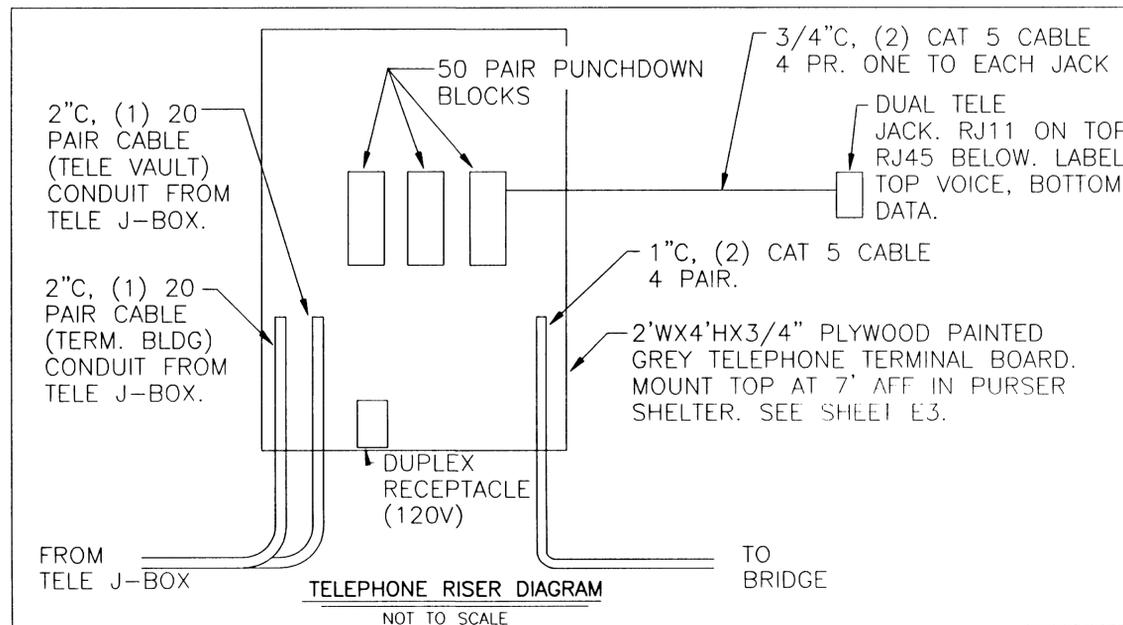


LIGHT POLE BASE DETAIL
NOT TO SCALE



NEW JUNCTION BOX DETAIL
NOT TO SCALE

- NOTES:
1. COORDINATE THE LOCATION OF THE JUNCTION BOXES WITH THE PROJECT ENGINEER. LOCATE THE BOXES TO THE BACK OF THE SIDEWALK AS MUCH AS POSSIBLE. COORDINATE PIPE SLEEVE LOCATIONS WITH THE GENERAL CONTRACTOR. SEE SHEETS E1, E4, & E6 FOR SIZES AND ROUTING OF CONDUIT INTO AND OUT OF JUNCTION BOX.



- NOTES FOR TELEPHONE RISER DIAGRAM:
1. ROUTE A 20 PAIR CABLE FROM THE TTB IN THE FERRY TERMINAL BUILDING THROUGH AN EXISTING CONDUIT TO THE TELEPHONE VAULT NEXT TO THE GENERATOR BLDG, THEN IN NEW 4" CONDUIT TO THE NEW ABOVE GROUND TELE J-BOX (SEE SHEET E1) THEN IN NEW 2" C TO TTB IN PURSER SHELTER.
 2. ROUTE A 20 PAIR CABLE FROM THE TELE VAULT NEXT TO THE GENERATOR BLDG TO THE ABOVE GROUND TELE J-BOX THEN IN NEW 2" C TO THE TTP IN PURSER SHELTER. COORDINATE WITH KPU TO SPLICE THE CABLE IN THE TELE VAULT AND TO TERMINATE THE CABLE IN A NID ON THE TTB.
 3. PAY KPU FOR THE WORK IN NOTE NO.1 AND AND FOR THE WORK IN NOTE NO. 2 ABOVE. THE NEW TELE. J-BOX AND TTB ARE NOT KPU'S WORK.
 4. CONNECT JACKS IN PURSER SHED TO TELE. SYSTEM IN FERRY TERMINAL OR TO NEW KPU TELE SERVICE AS DIRECTED BY PROJECT MANAGER.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
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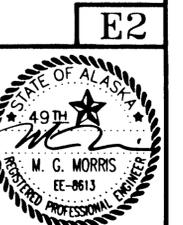
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MGS-000(67)

ALASKA

LIGHT POLE, JUNCTION BOX DETAILS

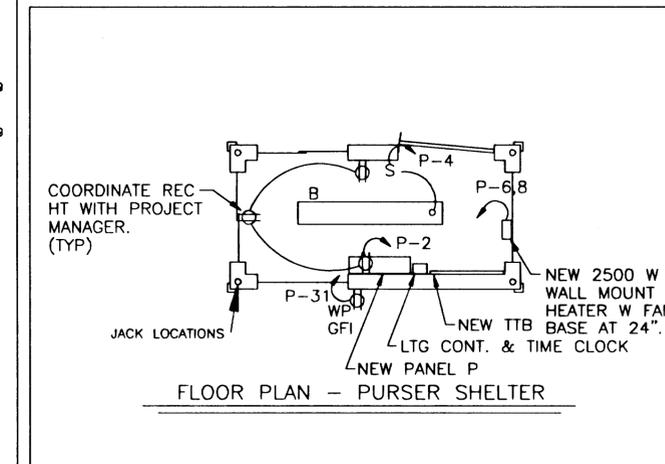
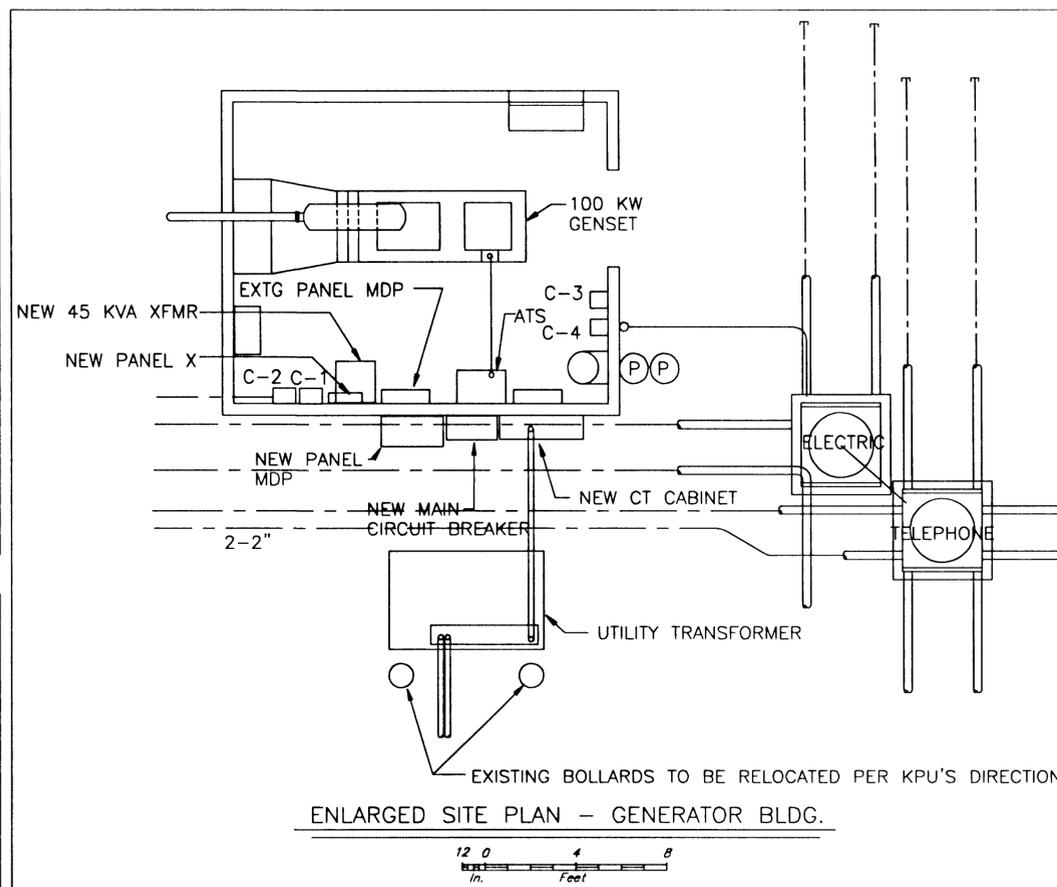
DESIGNED BY:	IHH ELECTRICAL	PROJECT NO.	67857
DRAWN BY:	SHS	DATE:	NOVEMBER 2000
CHECKED BY:	MORRIS		
			SHEET 79 OF 87



E2

PANEL X EXTG		SIZE	VOLTS, PHASE				MOUNTING	MAIN	LOCATION
		100A	120/208V, 3Ø, 4W				SURFACE	100 AMP	GEN. BLDG
CKT NO.	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO.
			CKT	AØ	BØ	CØ			
1	LIGHTING	20/1					20/1	ENGINE BLOCK HEATER	2
3	RECEPTACLES	20/1					20/1	WORK BENCH RECEPTACLES	4
5	OIL PUMP	20/1					20/1	FIRE ALARM SYSTEM	6
7	BRIDGE LIGHTS	20/1					20/1	BRIDGE LIGHTING	8
9	S. SIDE WALKWAY LTG	20/1					20/1	N. SIDE WALKWAY LTG.	10
11	S. SIDE WALKWAY LTG	20/1					20/1	N. SIDE WALKWAY LTG.	12
13	HEAT TRACE	20/2					20/2	HEATER	14
15	HEAT TRACE	---					---	---	16
17	CONTROL PHOTOCCELL	20/1					20/1	MAIN BERTH PURSER BLDG.	18
19	SPARE	50/2						SPACE	20
21		---						SPACE	22
23		60/2						SPACE	24
25		---					100/3	MAIN CIRCUIT BREAKER	26
27		60/2					---	---	28
29		---					---	---	30
TOTAL MEASURED LOAD = 9 KVA/ 39 AMPS(PKAK LEG)									

PANEL X NEW		SIZE	VOLTS, PHASE				MOUNTING	MAIN	LOCATION
		225A	120/208V, 3Ø, 4W				SURFACE	170 AMP	GEN. BLDG.
CKT NO.	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO.
			CKT	AØ	BØ	CØ			
1	LIGHTING (EXTG)	20/1					20/1	ENGINE BLOCK HEATER (EXTG)	2
3	RECEPTACLES	20/1					20/1	WORK BENCH RECEPTACLES	4
5	OIL PUMP	20/1					20/1	FIRE ALARM SYSTEM	6
7	BRIDGE LIGHTS	20/1					20/1	BRIDGE LIGHTING	8
9	S. SIDE WALKWAY LTG	20/1					20/1	N. SIDE WALKWAY LTG.	10
11	S. SIDE WALKWAY LTG	20/1					20/1	N. SIDE WALKWAY LTG.	12
13	HEAT TRACE	20/2					20/2	HEATER	14
15	HEAT TRACE	---					---	---	16
17	CONTROL	20/1					20/1	MAIN BERTH PURSER BLDG.	18
19	SPARE	20/1	0.0	5.1		0.0	100/3	PANEL P (NEW)	20
21		20/1	0.0		3.6	0.0	---	---	22
23		20/1	0.0		5.6	0.0	---	---	24
25		20/1	0.0			0.0	20/1	SPARE	26
27		20/1	0.0			0.0	20/1		28
29		20/1	0.0			0.0	20/1		30
31		20/1	0.0			0.0	20/1		32
33		20/1	0.0			0.0	20/1		34
35		20/1	0.0			0.0	20/1		36
37		20/1	0.0			0.0	20/1		38
39		20/1	0.0			0.0	20/1		40
41		20/1	0.0			0.0	20/1		42
TOTAL LOAD = 23.3 KVA/64.5 AMPS									



PANEL P NEW		SIZE	VOLTS, PHASE				MOUNTING	MAIN	LOCATION
		225A	120/208V, 3Ø, 4W				SURFACE	100 AMP	PURSER BLDG.
CKT NO.	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO.
			CKT	AØ	BØ	CØ			
1	BRIDGE & RAMP LIGHTING	20/2	0.6	1.2		0.6	20/1	PURSER BLDG RECEPTACLES	2
3	PE CELL ONLY	---	0.6		0.7	0.1	20/1	PURSER BLDG LIGHTING	4
5	UNDER RAMP LIGHTING	20/2	0.1		1.4	1.3	20/2	2500 WATT UNIT HEATER	6
7	---	---	0.1	1.4		1.3	---	---	8
9	FLOAT DECK LIGHTING	20/2	0.6		0.7	0.1	20/1	TELEPHONE TERMINAL BOARD	10
11	PE CELL ONLY	---	0.6		1.3	0.7	20/2	HEAT TRACE - WATER LINE	12
13	FLOAT WATER SAFETY LIGHTING	20/2	0.5	1.2		0.7	---	---	14
15	PE CELL ONLY	---	0.5		1.2	0.7	20/2	HEAT TRACE - SEWER LINE	16
17	WALKWAY LIGHTING-PE CELL	20/1	0.2			0.9	0.7	---	18
19	BRIDGE & RAMP LIGHTING	20/2	0.6	0.6		0.0	20/1	SPARE	20
21	PE CELL & TIME CLOCK	---	0.6	0.6		0.0	20/1		22
23	FLOAT DECK LIGHTING	20/2	0.5		0.5	0.0	20/1		24
25	PE CELL & TIME CLOCK	---	0.5	0.5		0.0	20/1		26
27	WALKWAY LIGHTING-TIME CLOCK	20/1	0.4		0.4	0.0	20/1		28
29	HOT BOX	20/1	1.5			1.5	0.0	20/1	30
31	PURSER BLDG EXTERIOR REC	20/1	0.2	0.2		0.0	20/1		32
33	SPARE	20/1	0.0		0.0	0.0	20/1		34
35		20/1	0.0			0.0	0.0	20/1	36
37		20/1	0.0	0.0		0.0	0.0	20/1	38
39		20/1	0.0		0.0	0.0	0.0	20/1	40
41		20/1	0.0			0.0	0.0	20/1	42
TOTAL CONNECTED LOAD = 14.3 KVA/39.5 AMPS 5.1 3.6 5.6									

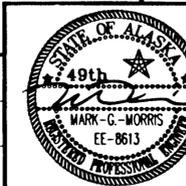
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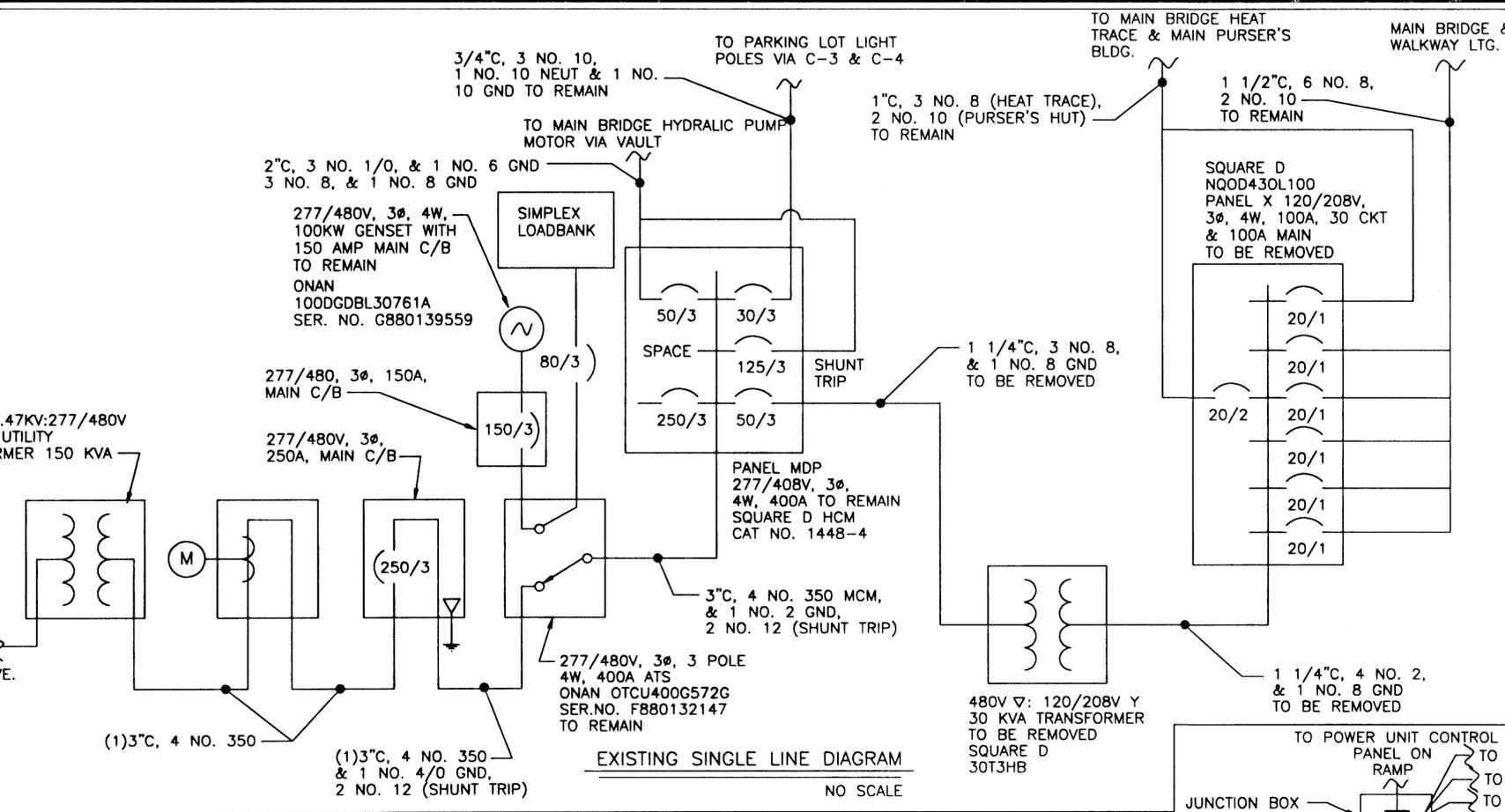
STATE OF ALASKA
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AND PUBLIC FACILITIES
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KETCHIKAN KETCHIKAN TRANSFER FACILITY ALASKA
MGS-000(67)
GEN. BLDG, PURSER SHELTER, PANEL SCHED.

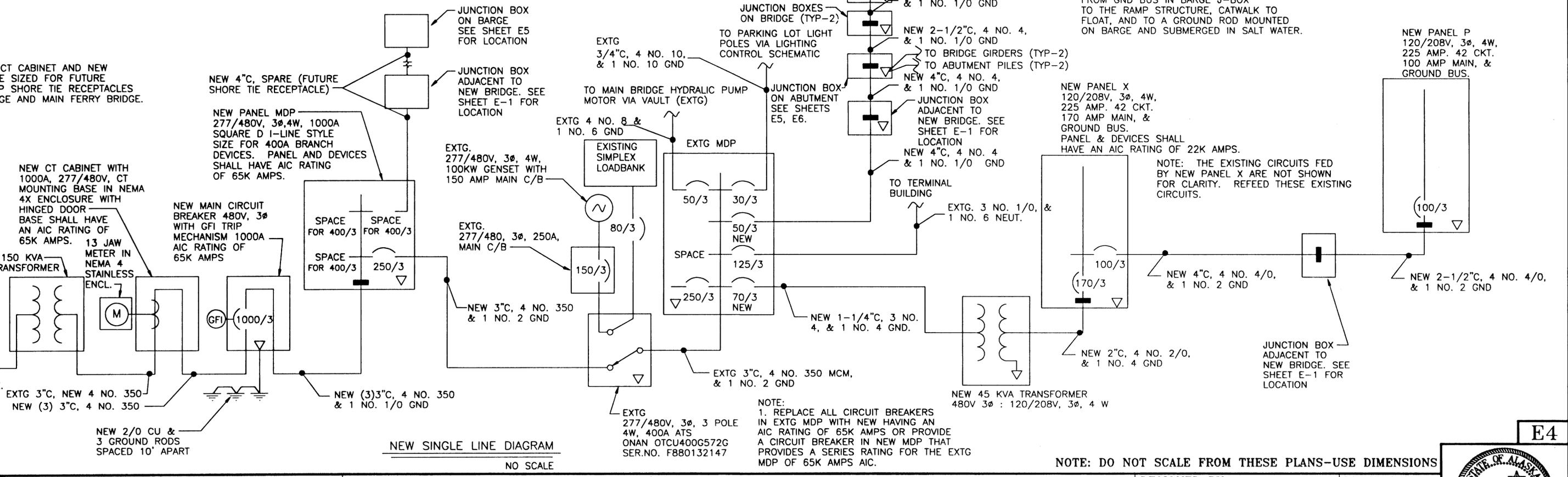
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: IHH ELECTRICAL
DRAWN BY: SOLLIE
CHECKED BY: MORRIS
PROJECT NO. 67857
DATE: NOVEMBER 2000
SHEET 80 OF 87





EXISTING SINGLE LINE DIAGRAM
NO SCALE



NEW SINGLE LINE DIAGRAM
NO SCALE

- NOTES:
1. REPLACE EXISTING PANEL X WITH A NEW PANEL AS SHOWN ON THE SINGLE LINE DIAGRAM. REMOVE ALL OF THE CIRCUITS FROM PANEL X AND RELOCATE THEM TO THE NEW PANEL X. EXTEND THE EXISTING CONDUIT OR REPLACE IT AS NECESSARY. REPLACE THE WIRING BACK TO THE EQUIPMENT BEING FED OR BACK TO THE FIRST SPLICE IF ONE IS MADE IN THE EXISTING WIRING. IF NO SPLICES EXIST, REPLACE THE WIRING BACK TO THE DEVICE BEING FED.
 2. ROUTE THE FEEDER CIRCUIT FOR THE SHORE TIE RECEPTACLE, POWER UNIT ON NEW BRIDGE, AND PANEL P IN THE NEW PURSER'S BLDG. THROUGH A JUNCTION BOX AS SHOWN ON SHEET E-1. ONLY ONE JUNCTION BOX IS USED FOR ALL THREE POWER CIRCUITS. A SECOND JUNCTION BOX IS PROVIDED FOR THE TELEPHONE CIRCUITS AS SHOWN ON SHEET E-1. INSTALL PULL BOXES (NEMA 4X) ON THE OUTSIDE OF THE GENERATOR BUILDING FOR THE FEEDER CIRCUITS FROM THE EXISTING MDP AND NEW PANEL X.
 3. COORDINATE WITH THE LOCAL UTILITY TO REPLACE THE UTILITY TRANSFORMER FEEDING THE GENERATOR BUILDING. THE UTILITY'S WORK WILL BE PAID FOR DIRECTLY BY DOT. INSTALL NEW CONDUIT AND WIRE BETWEEN THE UTILITY TRANSFORMER AND THE NEW CT CABINET AS SHOWN. REUSE EXISTING SERVICE CONDUIT IF PRACTICABLE. PROVIDE A MAIN CIRCUIT BREAKER, AND MAIN PANEL AS SHOWN. CONNECT THE EXISTING AUTOMATIC TRANSFER SWITCH TO THE NEW MAIN PANEL AS SHOWN. REPLACE THE STEPDOWN TRANSFORMER FEEDING PANEL X AS SHOWN. PROVIDE NEW GROUNDING AS SHOWN.
 4. THE MAIN FERRY TERMINAL BRIDGE AND BERTH IS FED FROM THE EXISTING GENERATOR BUILDING. A NEW BRIDGE AND BERTH ARE BEING INSTALLED. PROVIDE POWER FOR THE NEW BRIDGE, BERTH, AND PURSER'S BUILDING AS SHOWN.

- NOTES:
1. ROUTE NO. 1/0 GROUND CONDUCTORS FROM GND BUS IN ABUTMENT J-BOX TO EACH BRIDGE GIRDER AND TO EACH PILE UNDER ABUTMENT. EXOTHERMIC WELD TO PILES, USE LUG ON GIRDERS.
 2. ROUTE NO. 1/0 GROUND CONDUCTORS FROM GND BUS IN BARGE J-BOX TO THE RAMP STRUCTURE, CATWALK TO FLOAT, AND TO A GROUND ROD MOUNTED ON BARGE AND SUBMERGED IN SALT WATER.

NOTE:
1. REPLACE ALL CIRCUIT BREAKERS IN EXTG MDP WITH NEW HAVING AN AIC RATING OF 65K AMPS OR PROVIDE A CIRCUIT BREAKER IN NEW MDP THAT PROVIDES A SERIES RATING FOR THE EXTG MDP OF 65K AMPS AIC.

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

NO.	DESCRIPTION OF CHANGE:

STATE OF ALASKA
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SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN

KETCHIKAN TRANSFER FACILITY
MGS-000(67)

SINGLE LINE DIAGRAMS

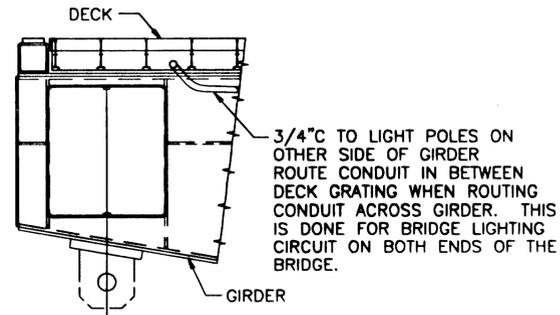
ALASKA

DESIGNED BY:
IHH ELECTRICAL
DRAWN BY:
SHS
CHECKED BY:
MORRIS

PROJECT NO.
67857
DATE:
NOVEMBER 2000
SHEET 81 OF 87

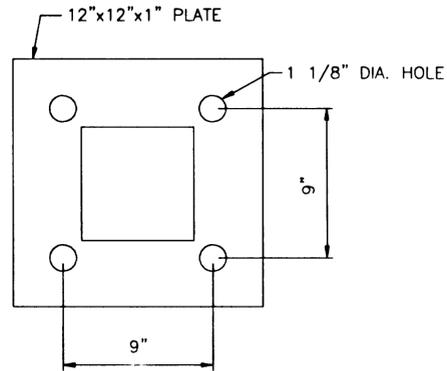


E4



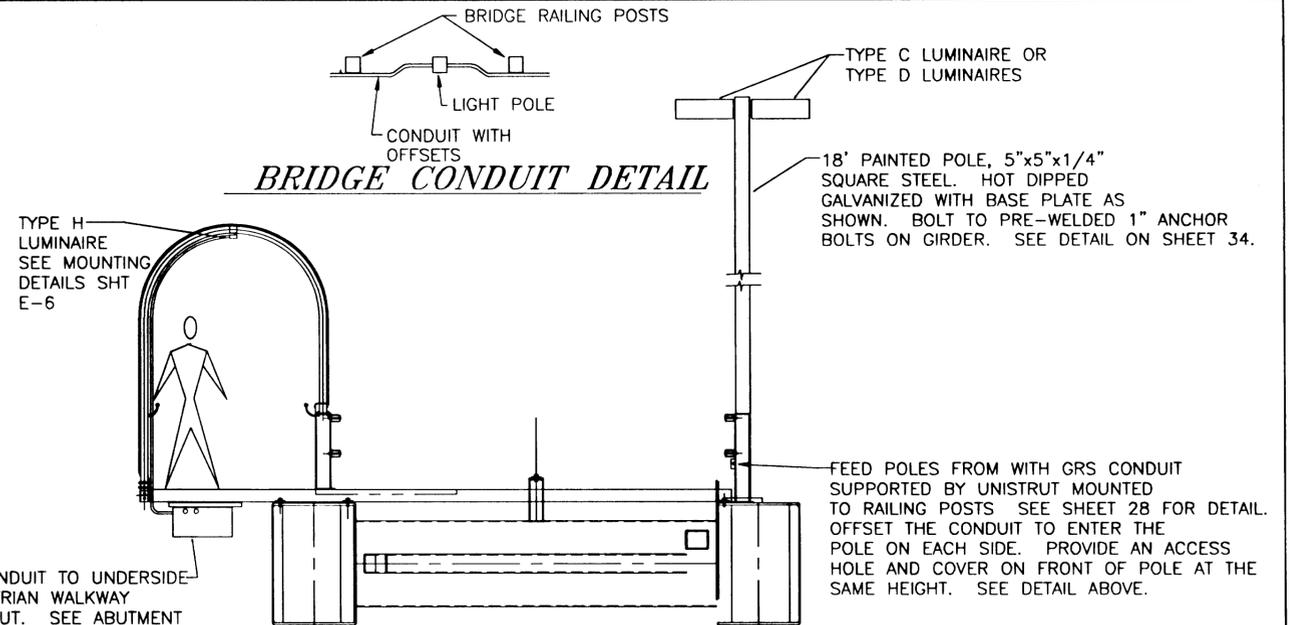
GIRDER CONDUIT ROUTING DETAIL

NO SCALE



POLE BASE PLATE DETAIL

NO SCALE
NOTE: USE THIS BASE PLATE ON ALL POLES MOUNTED ON THE BRIDGE, RAMP, BARGE, & FLOAT.



BRIDGE SECTION VIEW

3/4" CONDUIT ROUTED TO TYPE H LUMINAIRES ON CEILING OF PEDESTRIAN WALKWAY, SEE BRIDGE SECTION, THIS SHEET AND DETAILS SHEET E-6.

3/4" CONDUIT ROUTED TO TYPE C & D LIGHT POLES ON THE OTHER SIDE OF BRIDGE. ROUTE UNDER DECKING AS SHOWN ABOVE.

24"x24"x12" NEMA 4X JUNCTION BOX MOUNTED TO CONCRETE ABUTMENT 24 INCHES OUTBOARD OF THE GIRDER FACE. SEE PLAN VIEW OF ABUTMENT, SHEET E-6. BOTTOM 14" ABOVE ABUTMENT. MOUNT A 8"x8"x4" NEMA 4X J-BOX NEXT TO THE LARGER J-BOX FOR THE TELE. CKT.

24"x24"x12" NEMA 4X JUNCTION BOX MOUNTED ON UNISTRUT TO UNDERSIDE OF WALKWAY. ONLY ROUTE CONDUIT INTO SIDE OF J-BOX, NOT THE TOP. MOUNT A 8"x8"x4" NEMA 4X J-BOX NEXT TO THE LARGER J-BOX. (USE FOR TELE CKT.)

TYPE NM FLEX. CONDUIT SUPPORTED BY CABLE GRIP. SEE ABUTMENT PLAN VIEW FOR CONDUIT NUMBER AND SIZE. USE CONDULETS TO MAKE 90 TURNS WHEN ENTERING OR LEAVING JUNCTION BOXES. SUPPORT FLEX WITH CABLE GRIPS AT EACH END AND IN BETWEEN AS REQUIRED.

MOUNT CONDUIT TO UNDERSIDE OF WALKWAY ON UNISTRUT. SEE ABUTMENT PLAN VIEW FOR CONDUIT QUANTITY & SIZE. SEE SHEET 28 FOR UNISTRUT LOCATIONS.

24"x24"x12" NEMA 4X JUNCTION BOX MOUNTED UNDER WALKWAY.

24"x24"x12" NEMA 4X JUNCTION BOX MOUNTED AT 36" MIN. AFF ON POST. SEE SHEET 33 FOR POST DETAIL. MOUNT 8"x8"x4" NEMA 4X JUNCTION BOX NEXT TO THE LARGER BOX. USE IT FOR THE TELE. CIRCUIT. ALSO ADD SAME SIZE AND TYPE BOX NEXT TO LARGER BOX ON UNDER SIDE OF WALKWAY.

BOND BETWEEN BRIDGE & RAMP W/ 4/O.

TYPE NM FLEX CONDUIT SUPPORTED BY CABLE GRIP. USE CONDULETS TO MAKE 90 TURNS WHEN ENTERING OR LEAVING JUNCTION BOXES. SUPPORT FLEX WITH CABLE GRIPS AT EACH END AND IN BETWEEN AS REQUIRED.

18' POLE, 5"x5"x1/4" SQUARE STEEL. MOUNT TO PRE-WELDED 1" ANCHOR BOLTS ON RAMP SUPPORT STRUCTURE. SEE DETAIL ON SHEET 34. BASE PLATE PER DETAIL THIS SHEET.

2' POLE, 5"x5"x1/4" SQUARE STEEL. MOUNT TO PRE-WELDED 1" ANCHOR BOLTS ON RAMP SUPPORT STRUCTURE. SEE DETAIL ON SHEET 47. BASE PLATE PER DETAIL THIS SHEET.

4'-9" POLE, 5"x5"x1/4" SQUARE STEEL. MOUNT TO PRE-WELDED 1" ANCHOR BOLTS ON RAMP SUPPORT STRUCTURE. SEE DETAIL ON SHEET 47. BASE PLATE PER DETAIL THIS SHEET.

CONTROL STATION MOUNT TO UNISTRUT ON RAILING.

TELE. REC. SEE SHT E-7

POWER UNIT SEE SHEET 77.

CONTROL PANEL

CONDUIT. ROUTE TO POWER UNIT, CONTROL PANEL, TELEPHONE RECEPTACLE, & LIGHTING. SUPPORT ON UNISTRUT TO FIXED STRUCTURES EVERY 6' MIN. PROVIDE NEMA 4X PULL BOXES AS NECESSARY.

CONDUIT. ROUTE TO TYPE F & I LUMINAIRES ON BARGE AND FLOAT SUPPORT ON UNISTRUT TO FIXED RAMP STRUCTURE EVERY 6' MIN. SUPPORT TO UNISTRUT ON BARGE DECK AND BUMPER FRAME. SEE SHEET 40 FOR UNISTRUT LOCATIONS ON BARGE.

BRIDGE AND RAMP - ELEVATION VIEW



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

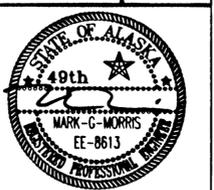
KETCHIKAN

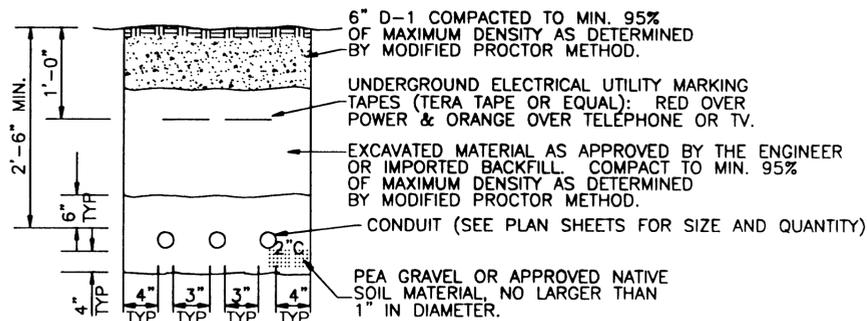
KETCHIKAN TRANSFER FACILITY
MSG-000(67)

ALASKA

BRIDGE PLAN, ELEVATION, & DETAILS

DESIGNED BY: IHH ELECTRICAL	PROJECT NO. 67857
DRAWN BY: SHS	DATE: NOVEMBER 2000
CHECKED BY: MORRIS	SHEET 82 OF 87



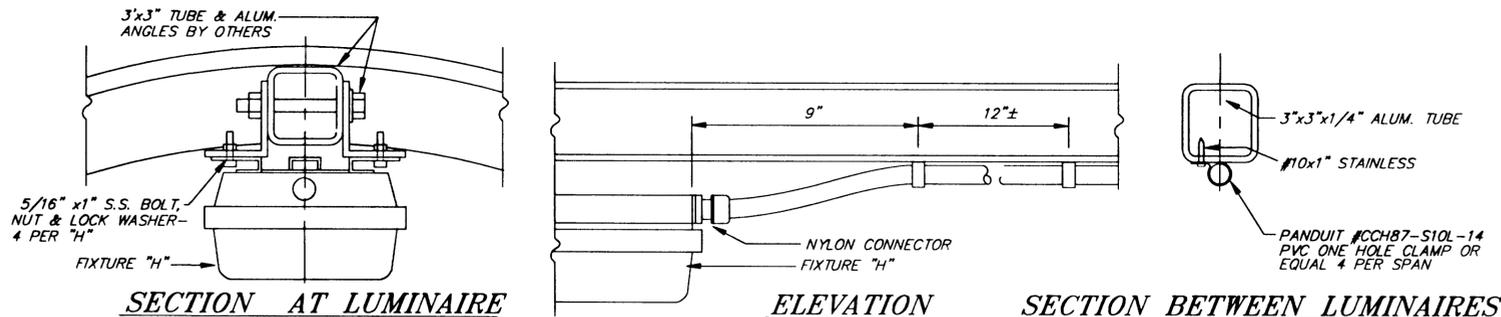


- NOTES:
1. ALL DIMENSIONS ARE MINIMUM.
 2. MODIFY CONDUIT BURIAL DEPTH WHERE NOTED ON PLAN SHEETS.
 3. COORDINATE WITH OTHER TRADES TO AVOID WATER, SEWER, DRAINAGE PIPES AND OTHER CONFLICTS.
 4. MAINTAIN 12 INCHES MINIMUM SEPARATION ALL DIRECTIONS BETWEEN POWER AND TELEPHONE OR TV CONDUITS.
 5. CUT EXISTING ASPHALT WHERE NECESSARY. PATCH ASPHALT PER SECTION 207. CUT ASPHALT 1' WIDER EACH SIDE THAN TRENCH. TACK COAT CUT ASPHALT PROVIDE 1 1/2" MIN. NEW ASPHALT THICKNESS.
 6. CUT & REPLACE EXISTING CONCRETE CURB & GUTTER AS NECESSARY.

TRENCH DETAIL
NO SCALE

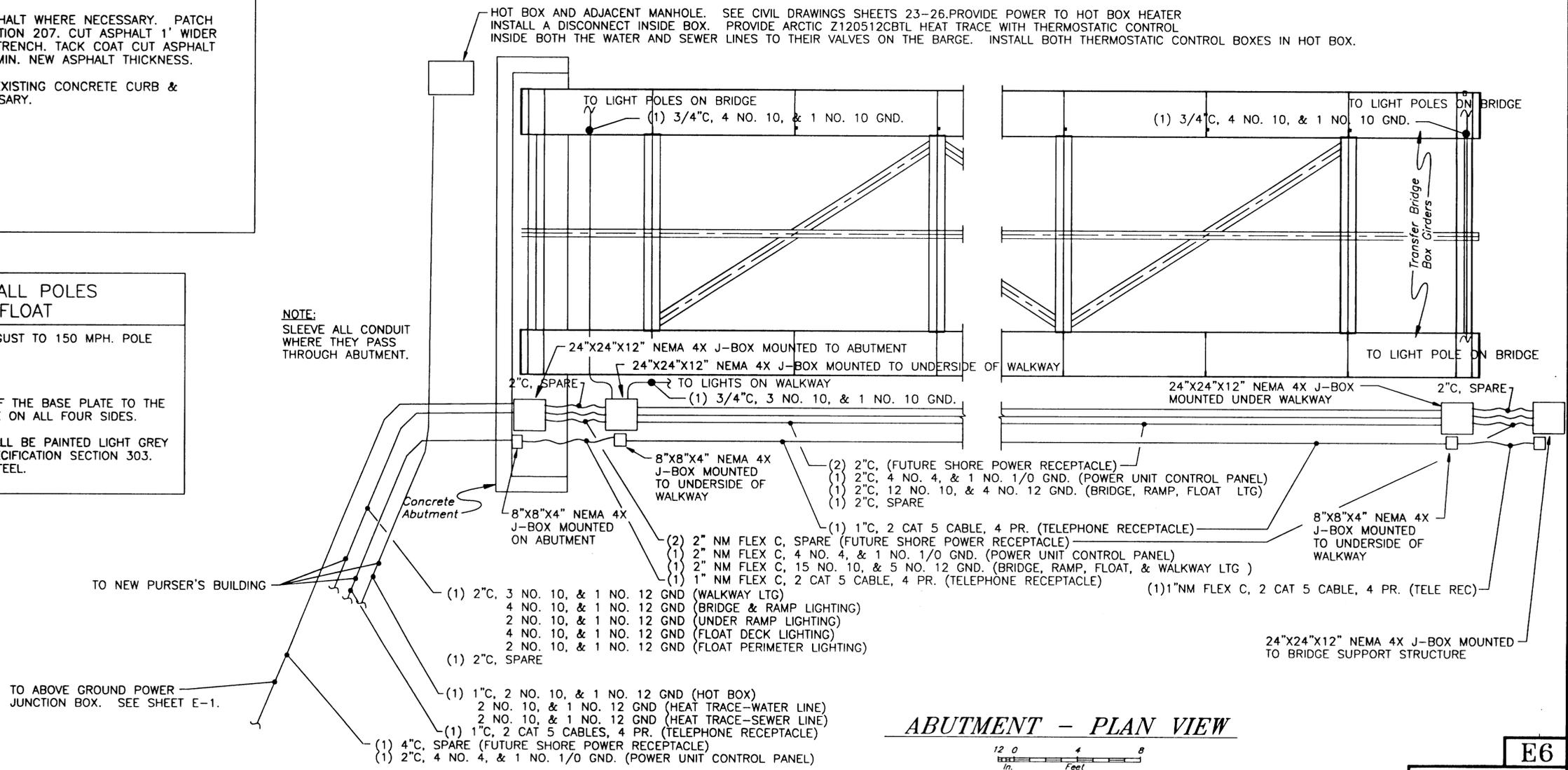
GENERAL REQUIRMENTS FOR ALL POLES ON BRIDGE, RAMP, AND FLOAT

1. SIZE POLES FOR SUSTAINED WINDS OF 120 MPH WITH GUST TO 150 MPH. POLE SIZES SHOWN ARE A MINIMUM.
2. PROVIDE POLE BASE PER DETAIL, SHEET E5.
3. PROVIDE A FULL PENETRATION WELD AROUND BOTTOM OF THE BASE PLATE TO THE POLE SHAFT. WELD POLE SHAFT TO TOP OF BASE PLATE ON ALL FOUR SIDES.
4. ALL POLES SHALL BE HOT DIPPED GALVANIZED AND SHALL BE PAINTED LIGHT GREY WITH THE SYSTEM 8 PAINTING SYSTEM SPECIFIED IN SPECIFICATION SECTION 303. THIS IS A TNE MEC SYSTEM FOR PAINTING GALVANIZED STEEL.



TYPE H LUMINAIRE MOUNTING DETAILS

HOT BOX AND ADJACENT MANHOLE. SEE CIVIL DRAWINGS SHEETS 23-26. PROVIDE POWER TO HOT BOX HEATER. INSTALL A DISCONNECT INSIDE BOX. PROVIDE ARCTIC Z120512CBTL HEAT TRACE WITH THERMOSTATIC CONTROL INSIDE BOTH THE WATER AND SEWER LINES TO THEIR VALVES ON THE BARGE. INSTALL BOTH THERMOSTATIC CONTROL BOXES IN HOT BOX.



ABUTMENT - PLAN VIEW



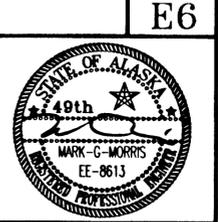
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

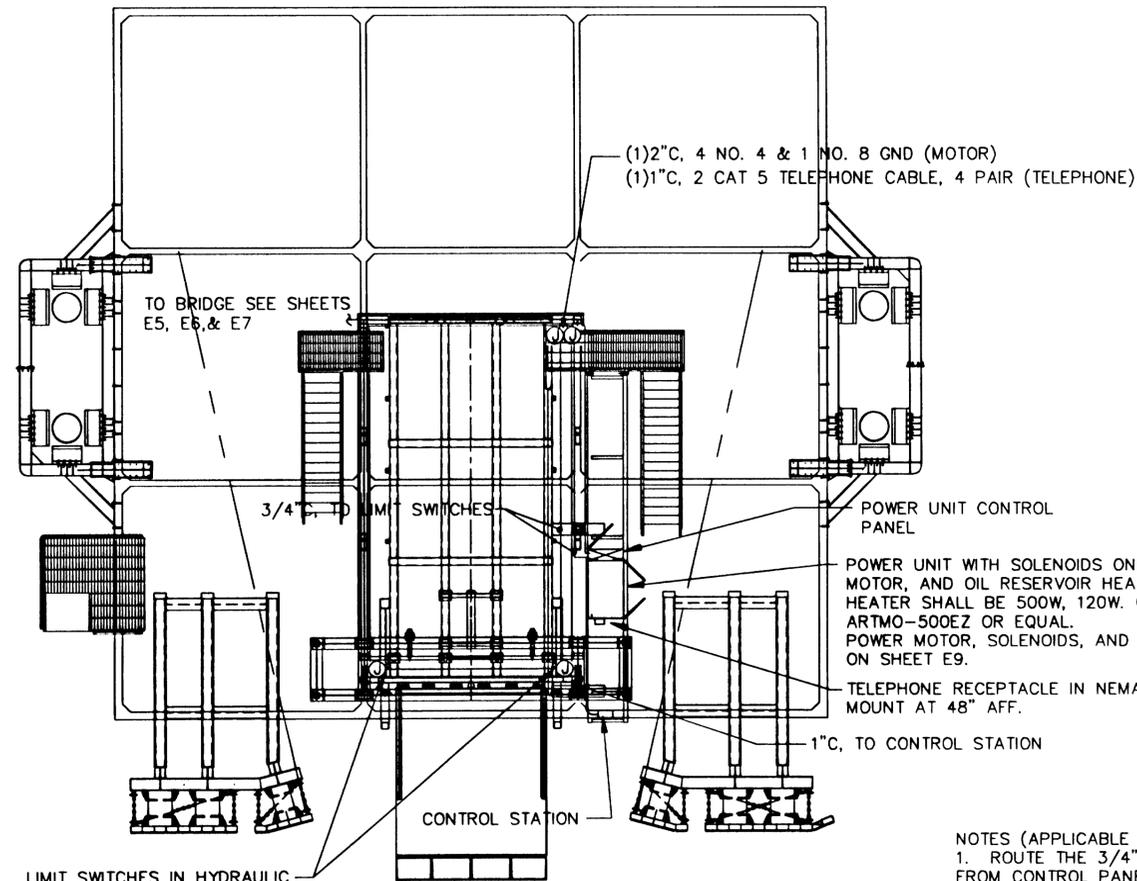
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RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY
MGS-000(67)
ALASKA
ABUTMENT - PLAN VIEW, MISC DETAILS

DESIGNED BY: IHH ELECTRICAL	PROJECT NO. 67857
DRAWN BY: SHS	DATE: OCTOBER, 2000
CHECKED BY: MORRIS	SHEET 83 OF 87





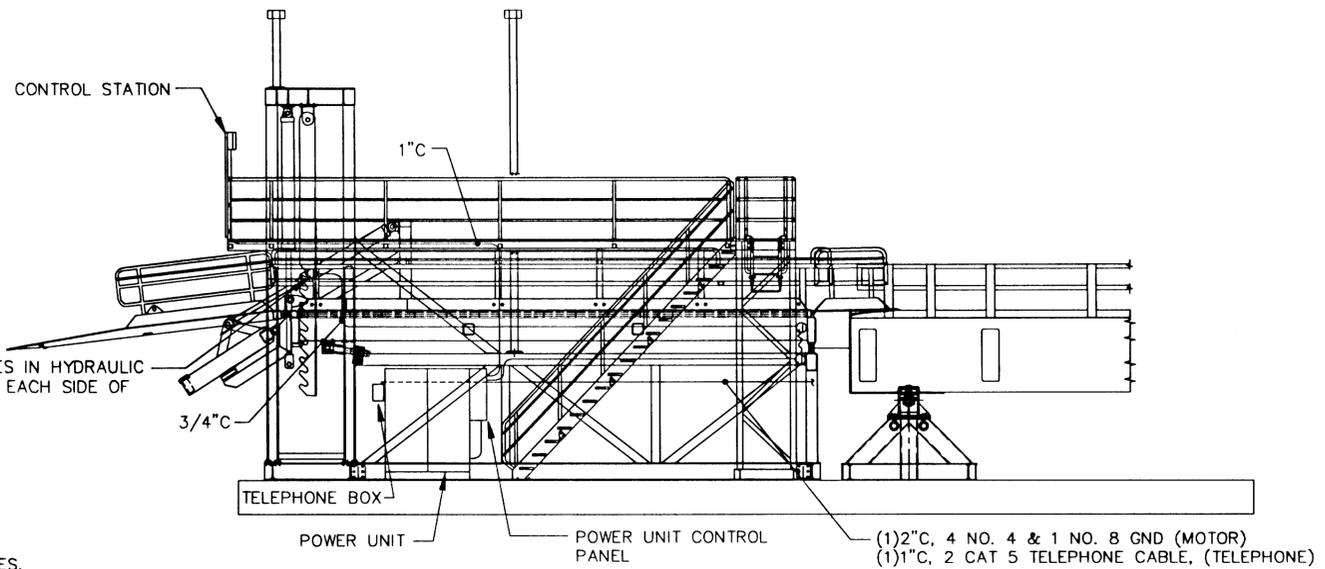
LIMIT SWITCHES IN HYDRAULIC CYLINDERS, SEE SHEET 55. CONNECT CONTROL WIRING TO LIMIT SWITCHES PER SCHEMATIC ON SHEET E9. PROVIDE FLEX, J-BOXES, & COND. AS NECESSARY.

POWER UNIT CONTROL PANEL
 POWER UNIT WITH SOLENOIDS ON VICKERS VALVES, MOTOR, AND OIL RESERVOIR HEATER. SEE SHEET 77. HEATER SHALL BE 500W, 120V. CHROMALAX ARTMO-500EZ OR EQUAL. POWER MOTOR, SOLENOIDS, AND HEATER AS SHOWN ON SHEET E9.
 TELEPHONE RECEPTACLE IN NEMA 4X ENCLOSURE. MOUNT AT 48" AFF.
 1" C, TO CONTROL STATION

NOTES (APPLICABLE TO ALL VIEWS):
 1. ROUTE THE 3/4" C FOR THE LIMIT SWITCHES FROM CONTROL PANEL BACK TO RAMP HINGE, FLEX TO J-BOX ON RAMP THEN FORWARD TO J-BOXES ADJACENT EACH LIMIT SWITCH. FLEX TO EACH LIMIT SWITCH. LENGTHEN & ROUTE FLEX TO ALLOW FULL MOTION OF RAMP AND APRON.

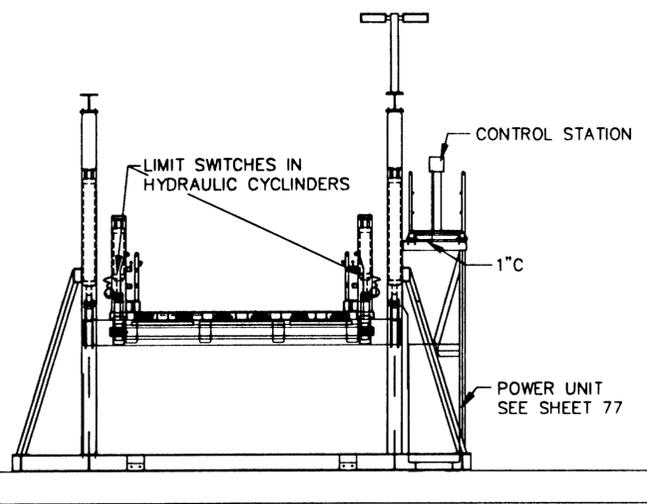
PLAN VIEW - POWER UNIT & CONTROLS

NO SCALE



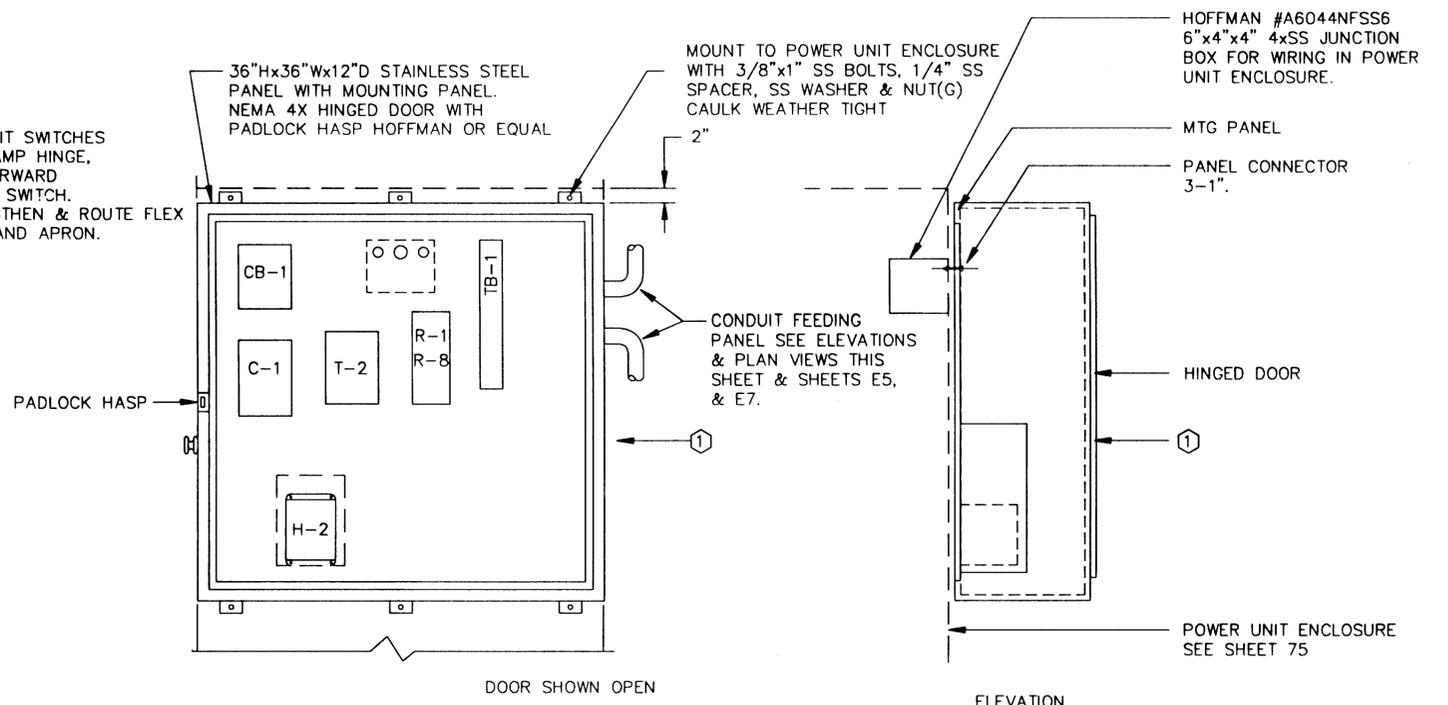
ELEVATION - POWER UNIT & CONTROLS

NO SCALE



ELEVATION - POWER UNIT & CONTROLS

NO SCALE



POWER UNIT CONTROL PANEL DETAILS

NO SCALE

- ① INSTALL 1" RIGID FIBER GLASS FOIL BACKED INSULATION ON ALL INTERIOR SURFACES WITH LIQUID NAILS.
- ② POWER MOTOR, OIL HEATER, & SOLENOIDS IN POWER UNIT ENCLOSURE PER SCHEMATIC DIAGRAM SHEET E9.
- ③ ALL WIRING IN POWER UNIT ENCLOSURE SHALL BE IN CONDUIT.

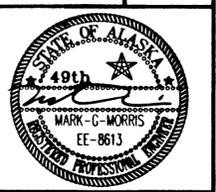
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN KETCHIKAN TRANSFER FACILITY MGS-000(67) ALASKA
MOTOR CONTROL DETAILS AND SECTIONS

DESIGNED BY: IHH ELECTRICAL	PROJECT NO. 67857
DRAWN BY: SHS	DATE: NOVEMBER 2000
CHECKED BY: MORRIS	SHEET 85 OF 87

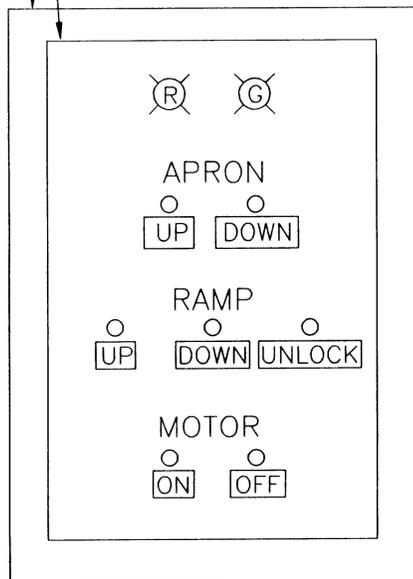
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



CONTROL DIAGRAM LEGEND

-  ELECTRIC MOTOR
-  JUNCTION
-  EXISTING
-  REMOVE
-  CONNECT
-  NOTE 2
-  MAGNETIC STARTER
-  DISCONNECT
-  EQUIPMENT NUMBER
-  HYDRAULIC SOLENOID #3
-  RELAY CONTACT NORMALLY OPEN
-  RELAY CONTACT NORMALLY CLOSED
-  NEW CONDUIT & WIRE 3/C
-  EXISTING CONDUIT & WIRE
-  EXISTING CONDUIT & NEW WIRE 3/C
-  OL OVERLOAD PROTECTION
-  GRS GALVANIZED RIGID STEEL
-  RECEPTACLE

NEMA 4X TYPE 316L STAINLESS STEEL ENCLOSURE WITH PADLOCKABLE DOOR AND INNER NEMA 4X TYPE 316L SS ENCLOSURE WITH CONTROLS. SIZE OUTER ENCLOSURE FOR INNER ENCLOSURE AND ALSO TO MOUNT THE OPERATING INSTRUCTIONS ON THE INSIDE OF THE OUTER ENCLOSURE DOOR. THE LABELS AND INSTRUCTIONS SHALL USE A TEXT SIZE OF 3/4" HIGH MINIMUM. ENGRAVE THE TEXT ON A PHENOLIC PLATE. MOUNT THE CONTROLS ON A SEPARATE NEMA 4X ENCLOSURE THAT IS MOUNTED INSIDE THE OUTER ENCLOSURE. CONNECT THE CONDUIT TO THE BOTTOM OF THE INSIDE ENCLOSURE THROUGH A HOLE IN THE BOTTOM OF THE OUTER ENCLOSURE. MOUNT THE OUTER ENCLOSURE TO TWO 4" SQUARE GALV. STEEL POSTS THAT ARE WELDED TO THE CATWALK STRUCTURE. SEE SHEET E-8 FOR MOUNTING LOCATION.



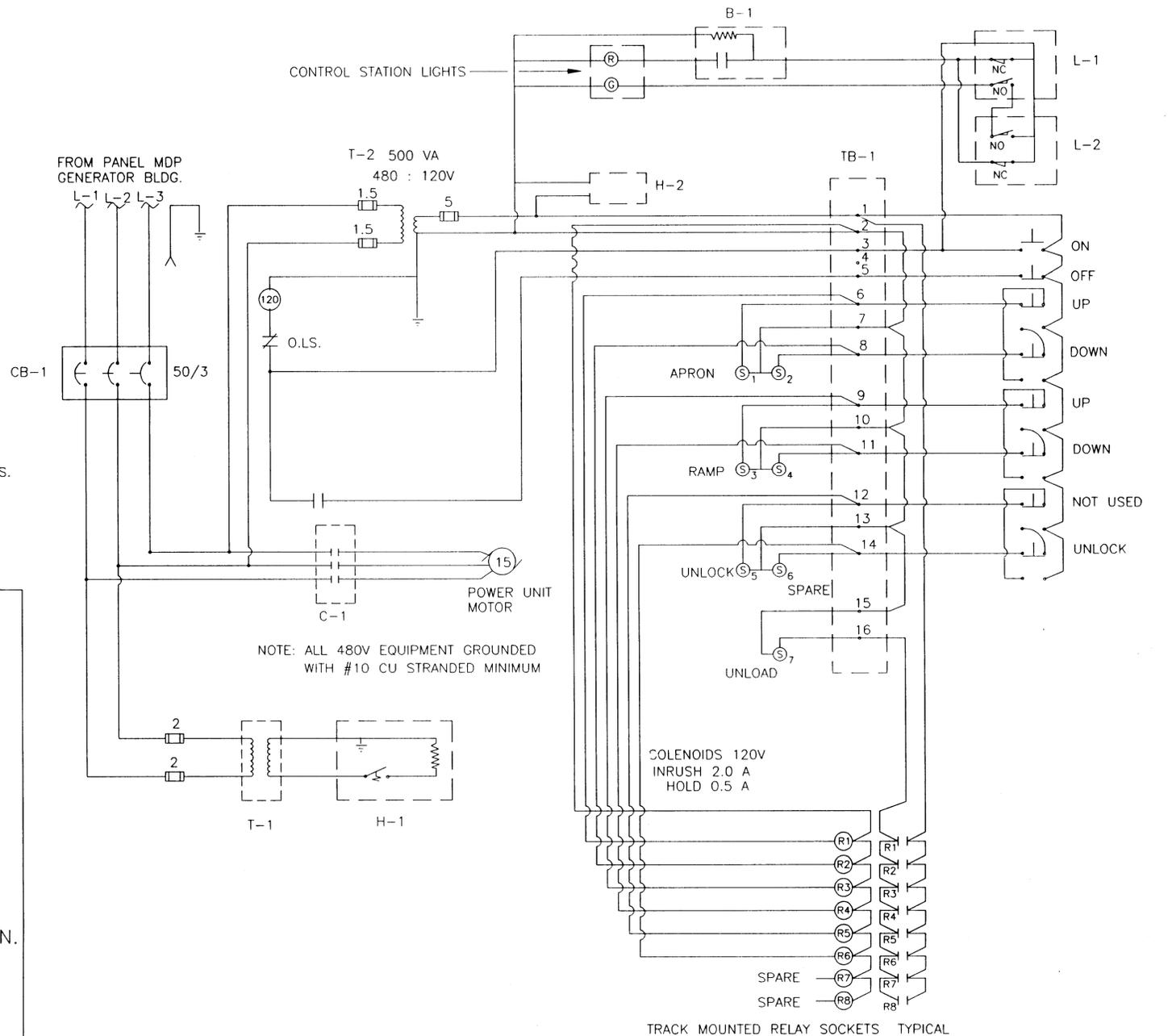
OPERATING INSTRUCTIONS

- 1) TURN MOTOR "ON"
- 2) TO RAISE RAMP, PUSH & HOLD "UP" UNTIL RAMP IS 6" HIGHER THAN REQUIRED, RELEASE "UP" PUSH "DOWN" UNTIL RAMP LOCKS INTO HANGAR BAR.
- 3) TO LOWER RAMP, FIRST RAISE RAMP 6" "UP" THEN RELEASE "UP" PUSH AND HOLD BOTH "UNLOCK" AND "DOWN" UNTIL RAMP IS 6" HIGHER THAN REQUIRED. RELEASE "UNLOCK" HOLD "DOWN" UNTIL RAMP LOCKS INTO HANGAR BAR.
- 4) LOWER APRON, PUSH "DOWN" UNTIL GREEN LIGHT IS ON.
- 5) TRANSFER TRAFFIC
- 6) RAISE APRON "UP" TO APRON STORED POSITION.
- 7) RETURN RAMP TO STORED AND LOCKED POSITION.
- 8) NOTE: TURN MOTOR "OFF" WHEN CONTROLS NOT ATTENDED.

CONTROL STATION

NO SCALE

- NOTES: 1. PROVIDE CORROSION RESISTANT NEMA 4X 30MM PUSH-TO-TEST INDICATING LIGHTS. PROVIDE THE LED LAMPS WITH THE COLOR AS SHOWN. PROVIDE SQUARE D TYPE SK, CLASS 9001 INDICATING LIGHTS. PROVIDE WITH CLEAR PROTECTIVE BOOTS.
 2. PROVIDE CORROSION RESISTANT NEMA 4X 30MM PUSHBUTTONS WITH CLEAR PROTECTIVE BOOTS. PROVIDE SQUARE D TYPE SK, CLASS 9001 PUSHBUTTONS.



POWER UNIT & CONTROL PANEL SCHEMATIC DIAGRAM
NO SCALE

- CB-1 CIRCUIT BREAKER 480V-50/3 SQ D CLASS 650 #FA34050
- C-1 MOTOR STARTER SQ D CLASS 8536 NEMA SIZE 2 #SDO-1 V02 F4T -3 O/L & NO/NC
- T-1 TRANSFORMER 480-120V 750 VA
- T-2 TRANSFORMER 480-120V 500 VA
- R RED PILOT LIGHT
- G GREEN PILOT LIGHT
- B-1 FLASHER RELAY DAYTON IA366 120V
- L-1&L-2 LIMIT SWITCH DPDT NEMA 4X ON HYDRAULIC CYLINDER ON APRON LIFT ASSEMBLY (SEE SHEET 55).
- H-1 OIL HEATER 500W 120V CHROMALOX ARTMO-500E2 WITH THERMOSTAT
- H-2 ELECTRIC HEATER 200W 120V HOFFMAN D-AH2001A WITH THERMOSTAT SET AT 40°F
- R RELAYS SOD CLASS 8501 DPDT 10A-120V #RS42M1P14, NR42B SOCKET & NT13 TRACK & NT10 ENDS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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

KETCHIKAN

KETCHIKAN TRANSFER FACILITY
 MGS-000(67)

ALASKA

CONTROL SCHEMATIC

DESIGNED BY:
IHH ELECTRICAL

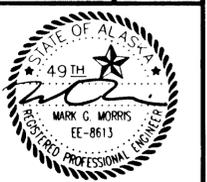
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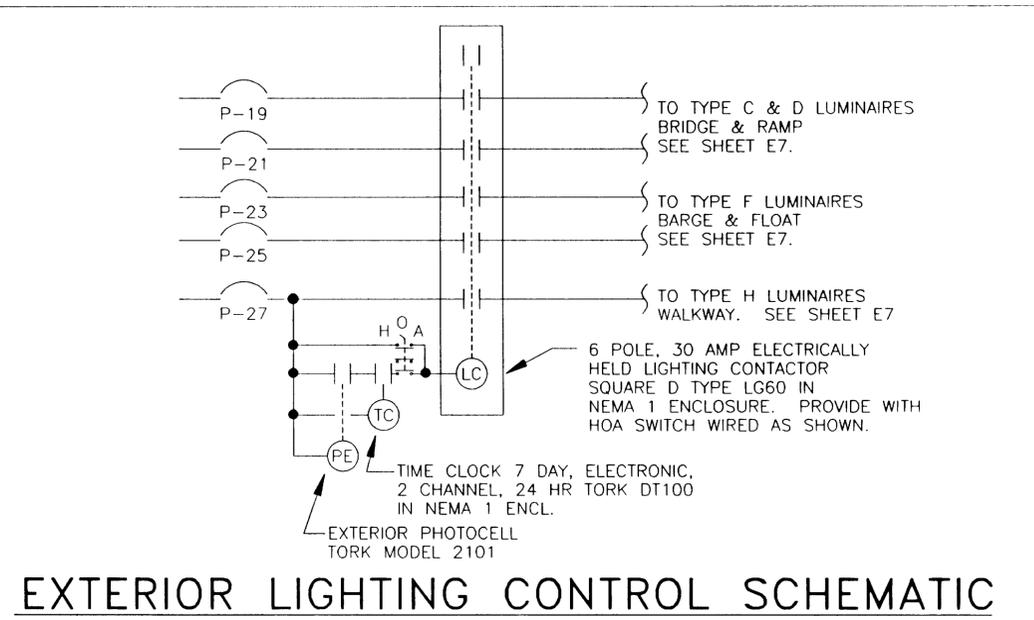
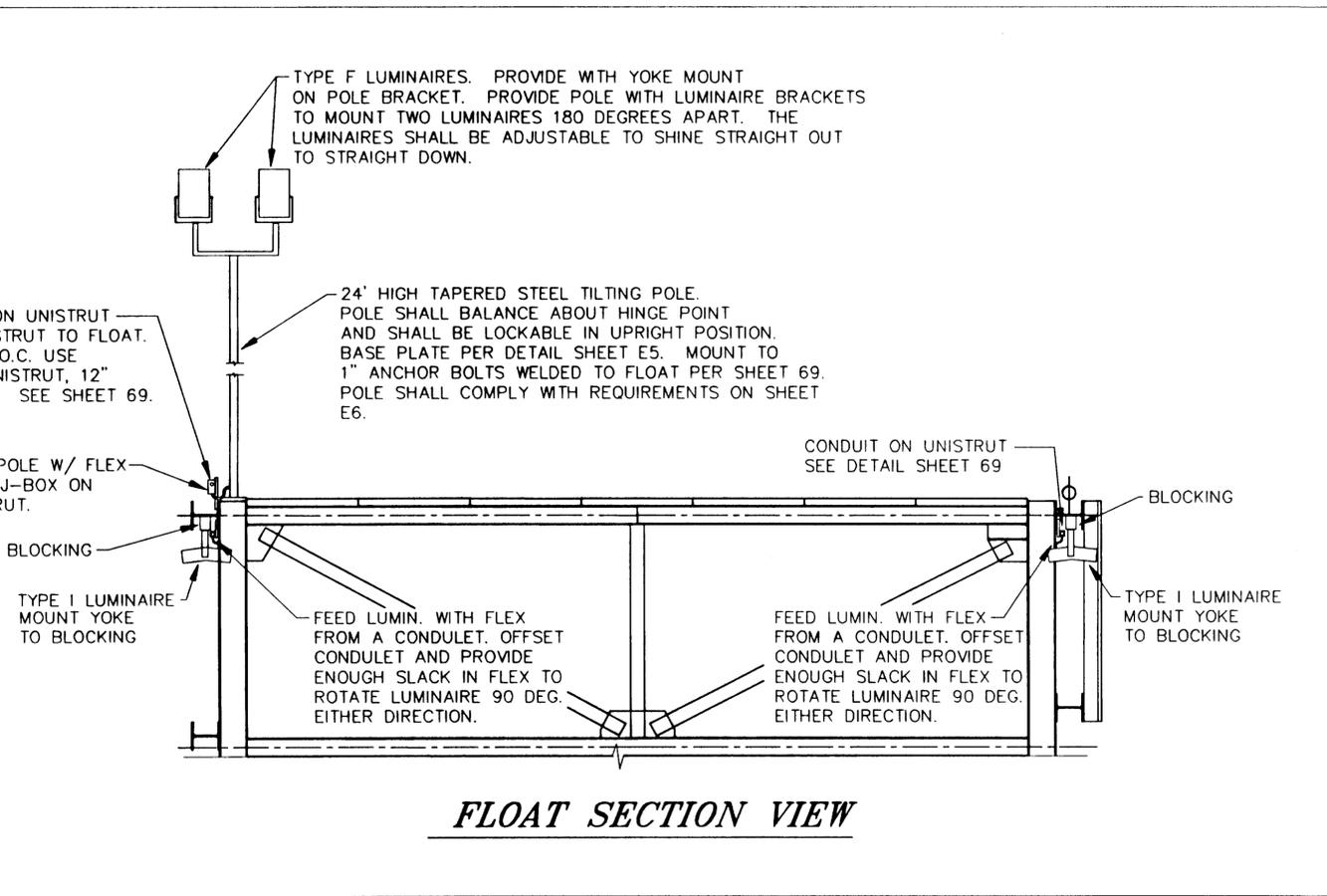
CHECKED BY:
MORRIS

PROJECT NO.
67857

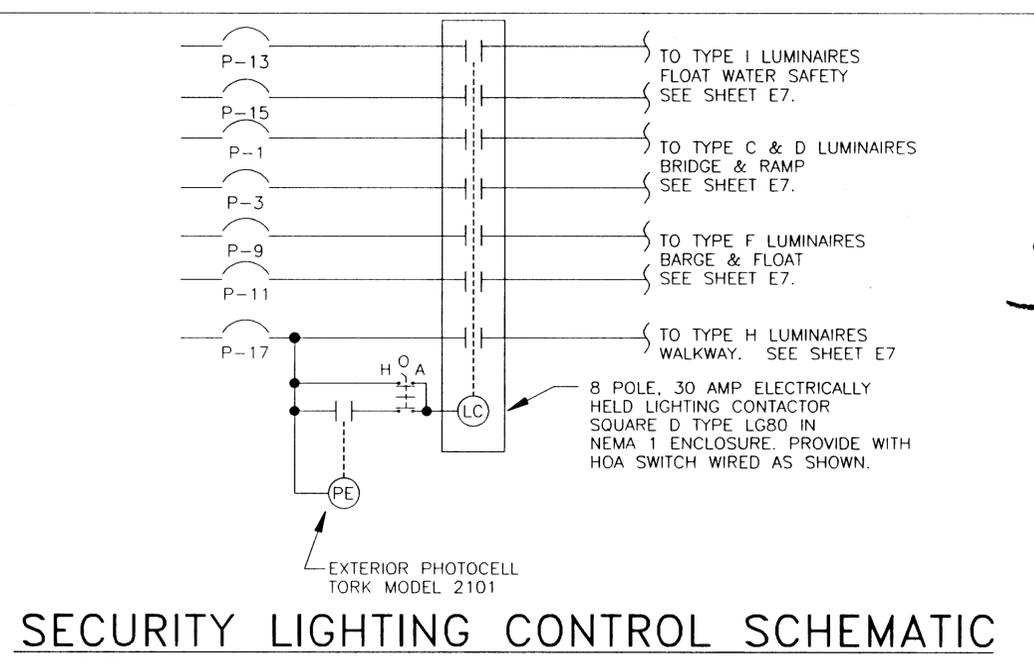
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NOVEMBER 2000

SHEET **86** OF **87**





NOTES:
 1. MOUNT CONTACTOR NEXT TO PANEL P IN PURSHERS SHELTER. MOUNT PHOTOCELL ON WATER SIDE OF SHELTER AT 7' MIN. AFF. SHIELD PE CELL FROM ALL LUMINAIRES.
 2. 50% OF ALL TYPE C,D, & F LUMINAIRES SHALL BE CONTROLLED FROM THIS CONTACTOR. CONTROL THE BALANCE FROM THE SECURITY CONTACTOR. 25% OF THE TYPE H LUMINAIRES SHALL BE CONTROLLED BY THIS CONTACTOR, THE REST BY THE SECURITY CONTACTOR.



NOTES:
 1. MOUNT CONTACTOR NEXT TO PANEL P IN PURSHERS SHELTER. MOUNT PHOTOCELL ON WATER SIDE OF SHELTER AT 7' MIN. AFF. SHIELD PE CELL FROM ALL LUMINAIRES.
 2. 50% OF ALL TYPE C,D, & F LUMINAIRES SHALL BE CONTROLLED FROM THIS CONTACTOR. CONTROL THE BALANCE FROM THE EXTERIOR CONTACTOR. 75% OF THE TYPE H LUMINAIRES SHALL BE CONTROLLED BY THIS CONTACTOR, THE REST BY THE EXTERIOR CONTACTOR.

KETCHIKAN
 KETCHIKAN TRANSFER FACILITY
 MGS-000(67)
 ALASKA
 PART OF TRUSS 2-21

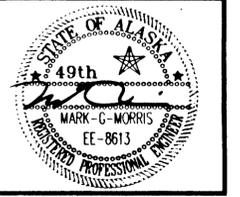
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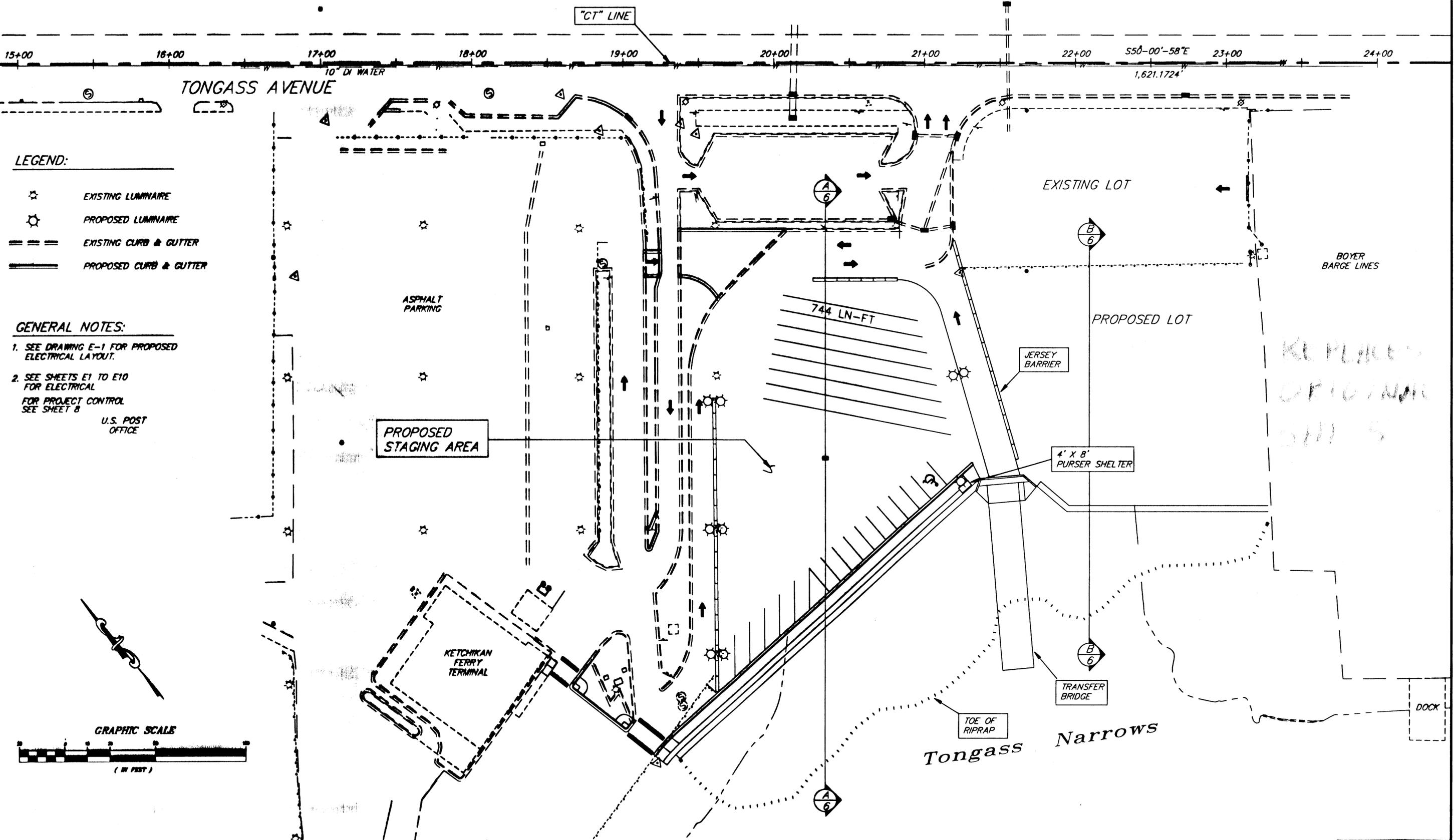
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN
 KETCHIKAN TRANSFER FACILITY
 MGS-000(67)
 ALASKA
MISCELLANEOUS DETAILS

DESIGNED BY: IHH ELECTRICAL	PROJECT NO. 67857
DRAWN BY: SHS	DATE: NOVEMBER 2000
CHECKED BY: MORRIS	SHEET 87 OF 87



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



- LEGEND:**
- EXISTING LUMINAIRE
 - PROPOSED LUMINAIRE
 - EXISTING CURB & GUTTER
 - PROPOSED CURB & GUTTER

- GENERAL NOTES:**
1. SEE DRAWING E-1 FOR PROPOSED ELECTRICAL LAYOUT.
 2. SEE SHEETS E1 TO E10 FOR ELECTRICAL FOR PROJECT CONTROL SEE SHEET B
- U.S. POST OFFICE

KE PLACE ORIGINAL DIMS

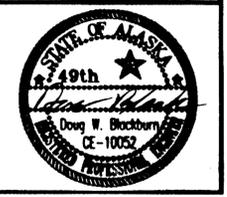
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STATE OF ALASKA
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SOUTHEAST REGION

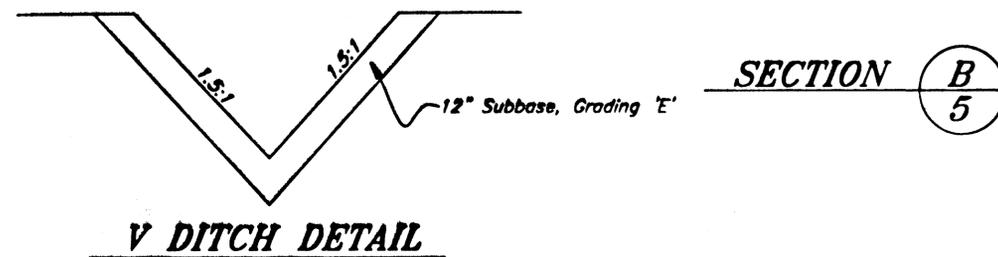
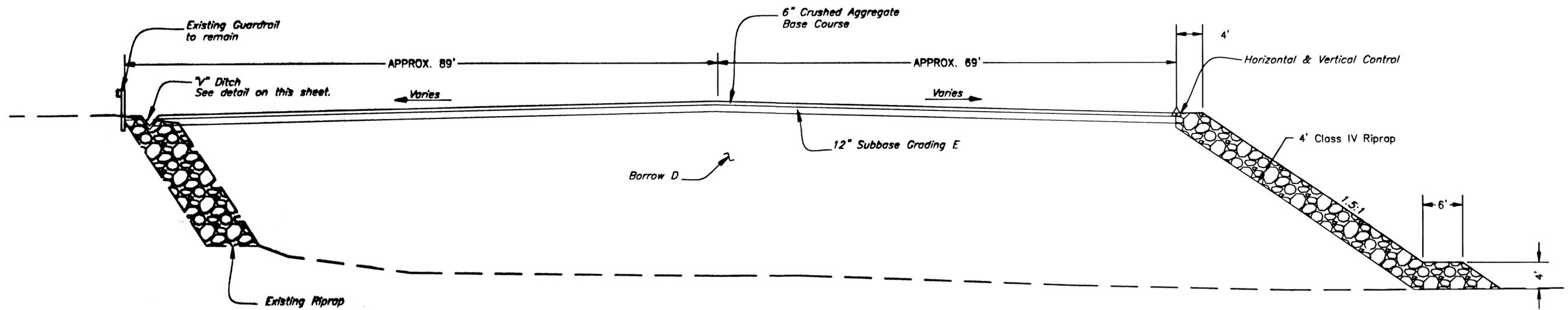
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE 1
Project No. MGS - 0003(07) / 67857 ALASKA
PROJECT OVERVIEW - UPLANDS
--CHANGE ORDER #1--

DESIGNED BY: Blackburn	PROJECT NO. 67857
DRAWN BY: D.B./R.S.	DATE: March 2001
CHECKED BY: Miller	SHEET A1 OF ?

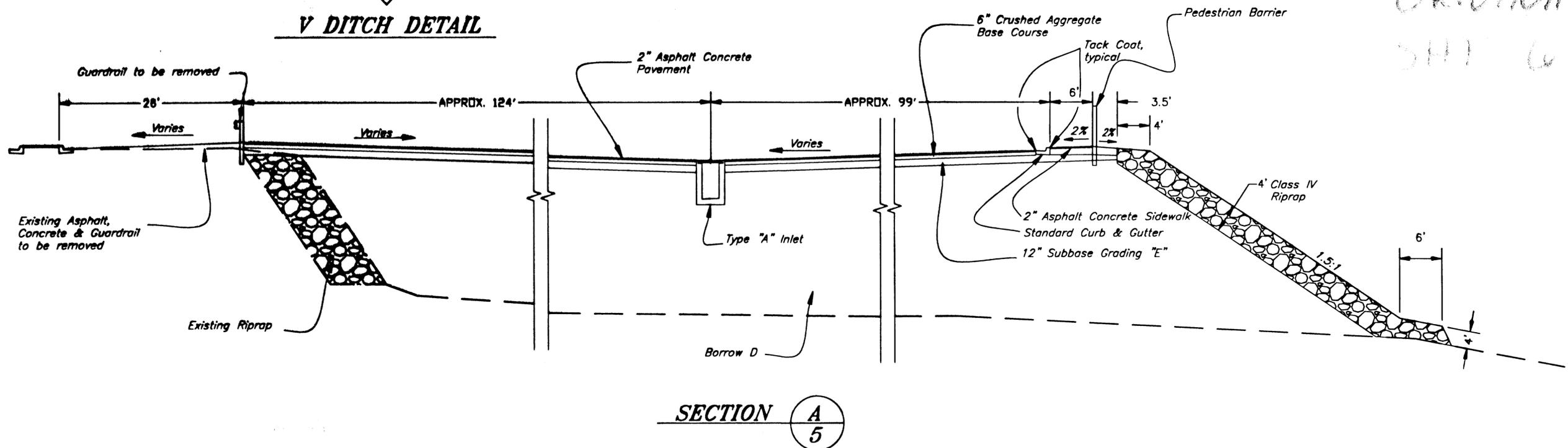


TYPICAL SECTION NOTES:

1. SEE RIPRAP DETAIL ON SHEET 16 FOR SANITARY SEWER OUTFALL.
2. SEE RIPRAP DETAILS FOR ABUTMENT ON SHEET 21.



REPLACES ORIGINAL SHEET 6



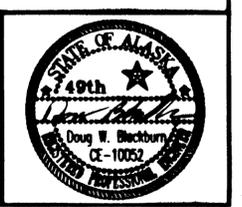
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STATE OF ALASKA
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SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67657
ALASKA
TYPICAL SECTIONS
--CHANGE ORDER #1--

DESIGNED BY: Blackburn	PROJECT NO. 67657
DRAWN BY: D.B./R.S./D.F.	DATE: March 2001
CHECKED BY: Miller	SHEET A2 OF ?



STORM DRAIN STRUCTURE SUMMARY

NO.	TYPE	FRAME OR LID	STRUCTURES		SUMP ELEV.	REMARKS
			STATION	OFFSET		
	TYPE 'A' INLET	FRAME & GRATE	20+34.2	257.2 RT	16.3	INCLUDE TOP & VERTICAL BAFFLE PLATES
	48" STORM DRAIN MANHOLE	FRAME & LID	21+55.75	45.4 RT	15.7	
	48" STORM DRAIN MANHOLE	FRAME & LID	22+73.2	46 RT	15.1	INCLUDE VERTICAL BAFFLE PLATE
	TYPE "A" INLET	FRAME & GRATE	19+65.6	406.9 RT	17.4	INCLUDE TOP & VERTICAL BAFFLE PLATES

STORM DRAIN PIPE SUMMARY

DIA. (IN.)	ENTRANCE			EXIT			LENGTH (FT.)	GRADE (%)	REMARKS
	INV. EL.	STATION	OFFSET	INV. EL.	STATION	OFFSET			
48	13.23	20+12.6	34.8 RT	9.44	20+12.3	395 RT	380	1.0	
18	17.80	20+34.2	257.2 RT	14.0	20+13	257 RT	20	--	SEE DETAIL SHEET 18
18	16.55	20+99.8	106.4 RT	14.33	20+99.6	326.3 RT	222	1.0	
18	17.20	21+55.75	45.4 RT	16.60	22+73.2	46 RT	117.4	0.50	
18	18.50	22+73	21.2 RT	16.60	22+73.2	46 RT	26	7.2	
18	16.60	22+73.2	46 RT	14.03	22+73	303.3 RT	257	1.0	
18	18.90	18+65.6	406.9 RT	18.49	18+65.6	424 RT	23	2.0	

UTILITY PIPE SUMMARY

DIA. (IN.)	ENTRANCE			EXIT			LENGTH (FT.)	GRADE (%)	REMARKS
	INV. EL.	STATION	OFFSET	INV. EL.	STATION	OFFSET			
24	11.38'	20+64	18.6 RT	-30.00'	20+22	518 RT	520	VARIES	24" HDPE SS OUTFALL SEE SHEETS 16 & 17
8	17.00'			14.01'			146.0	2.05%	8 INCH PVC SS LINE
8	14.01'			11.53'	20+64	18.6 RT	120.5	2.05%	8 INCH PVC SS LINE
4	-	21+75.4	4 LT	18.00'	21+73.8	272 RT	290		8 INCH HDPE WATER LINE

DITCHING SUMMARY

"A"	OFFSET		INV. ELEV.	END STATION "A"	OFFSET		INV. ELEV.	REMARKS
	LEFT	RIGHT			LEFT	RIGHT		
	136'	19.0		23+04.2	134'	18.5		"V" DITCH
	134'	18.5		23+04.2	287.7'	16.96		"V" DITCH

VALVE BOX SUMMARY

NO.	OFFSET		REMARKS
	LEFT	RIGHT	
5	26.2'		24" BUTTERFLY VALVE
	1.6'		8" GATE VALVE
			6" GATE VALVE-FIRE HYDRANT

PEDESTRIAN BARRIER SUMMARY

STATION	OFFSET		REMARKS
	LEFT	RIGHT	
19+26.61		453.61'	BEGIN BARRIER
21+23.05		277.4'	END BARRIER (LENGTH 264') CURVE DATA = 18.6', R=94'

SIGN SUMMARY

TYPE	FACING TRAFFIC	SIGN LEGEND	SIZE (IN.)		AREA (SQ. FT.)	# OF POSTS	POST SIZE	POST TYPE	REMARKS
			WD.	HT.					
-1	WB	STOP	30	30	6.25	1	64	PST	
-1	NB	DO NOT ENTER	30	30	6.25				MOUNT ABOVE SIGN #1
ECIAL	SB	INTER-ISLAND FERRY	66	24	11.00	2	64	PST	
-1	NB	DO NOT ENTER	30	30	6.25	1	64	PST	
-1L	WB	ONE WAY	36	12	3.00				MOUNT ABOVE SIGN #4
-2	NB	YIELD	30	30	6.25	1	64	PST	
-1	NB	STOP	30	30	6.25	1	64	PST	
ECIAL	NB	AMHS TERMINAL	60	24	10.00	2	64	PST	
ECIAL	SB	INTER-ISLAND FERRY	66	24	11.00				MOUNT BACK TO BACK WITH SIGN #3
ECIAL	SB	VEHICLES OVER 30 FT.	66	24	11.00	2	64	PST	
ECIAL	SB	SHORT TERM PARKING	12	18	1.50	1	64	PST	
ECIAL	SB	UNTICKETED PASSENGERS	30	24	5.00	1	64	PST	
ECIAL	SB	UNTICKETED PASSENGERS	30	24	5.00	1	64	PST	
TOTAL			88.75						

PIPE REMOVAL SUMMARY

NO.	PIPE	BEGIN REMOVAL	END REMOVAL	LENGTH	REMARKS
1	48" CMP	20+13.6 22' RT	20+13 208 RT	173'	REMOVE & DISPOSE
2	18" CAP	21+00 107' RT	21+21 154' RT	52'	REMOVE & DISPOSE
3	18" CAP	21+55 45' RT	21+57 154' RT	108'	REMOVE & DISPOSE
4	18" CAP	22+73 22' RT	22+68 140' RT	118'	REMOVE & DISPOSE
5	12" DI	20+65 21.7' RT	20+69 41.7' RT	20'	REMOVE & DISPOSE OF 20' OF 12" DI PIPE, 12" GATE VALVE & VALVE BOX

REMOVAL OF STRUCTURES & OBSTRUCTIONS

NO.	ITEM	QUANTITY	REMARKS
6	GUARDRAIL END SECTION	1 EACH	REMOVE & INSTALL WITH A SALVAGED POST AT STA 19+20.92, 450.48' RT.
	GUARDRAIL	706 FT	REMOVE & DISPOSE OF POST, SALVAGE RAIL
	TIDAL DEBRIS IN BASIN-LOGS & STICKS	VARIES	REMOVE & DISPOSE
	ASPHALT PAVEMENT	900 SY	REMOVE & DISPOSE
	ASPHALT SIDEWALK	200 SY	REMOVE & DISPOSE
	CONCRETE CURB & GUTTER	320 FT	REMOVE & DISPOSE
	CONCRETE SIDEWALK	70 SY	REMOVE & DISPOSE
7	CHAIN LINK FENCE	227 FT	REMOVE & DISPOSE
8	CHAIN LINK GATE	28 FT	REMOVE
9	10 FT X 195 FT TRAFFIC ISLAND	-	REMOVE CURB, GUTTER & SIDEWALK & DISPOSE, REMOVE & DISPOSE CHAIN LINK FENCE
10	END OF TRAFFIC ISLAND	-	REMOVE & DISPOSE, REMOVE & REINSTALL TRAFFIC SIGN, SEE SHEET 9
4B	ASPHALT, CURB, GUTTER & SIDEWALK FOR WATER MAIN INSTALLATION	-	REMOVE & DISPOSE
5B	ASPHALT, CURB, GUTTER & SIDEWALK FOR SANITARY SEWER OUTFALL INSTALLATION	-	REMOVE & DISPOSE
5C	ASPHALT, CURB, GUTTER & SIDEWALK FOR SANITARY SEWER MAIN INSTALLATION	-	REMOVE & DISPOSE

MANHOLE SUMMARY

STRUCTURE No.	TYPE	FRAME OR LID	STRUCTURE		REMARKS
			STATION	OFFSET	
S-4	48" SS MANHOLE	FRAME & LID	21+62.9	264.7' RT	
S-5	48" SS MANHOLE	FRAME & LID	21+20.4	125.1' RT.	

FIRE HYDRANT SUMMARY

STATION	OFFSET		REMARKS
	LEFT	RIGHT	
21+68.23		261.2'	Gate valve to be 4ft. from center of Hydrant

ADDITIONAL NOTES: HYDRANT & TEE SHALL BE THRUST BLOCKED. 1/2 CY WASHED ROCK TO BE COMPACTED UNDER HYDRANT.

REPLACES ORIGINAL UNIT

JERSEY BARRIER SUMMARY

STATION	OFFSET		LENGTH (FT)	REMARKS
	LEFT	RIGHT		
19+62.65		407.72'		BEGIN RUN
19+60.46		217.74'	190	END RUN
20+16.90		140.4'		BEGIN RUN
20+77.00		140.2'	60	END RUN
21+19.11		113.54'		BEGIN RUN
21+61.23		257.51'	160	END RUN

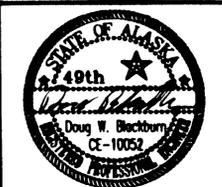
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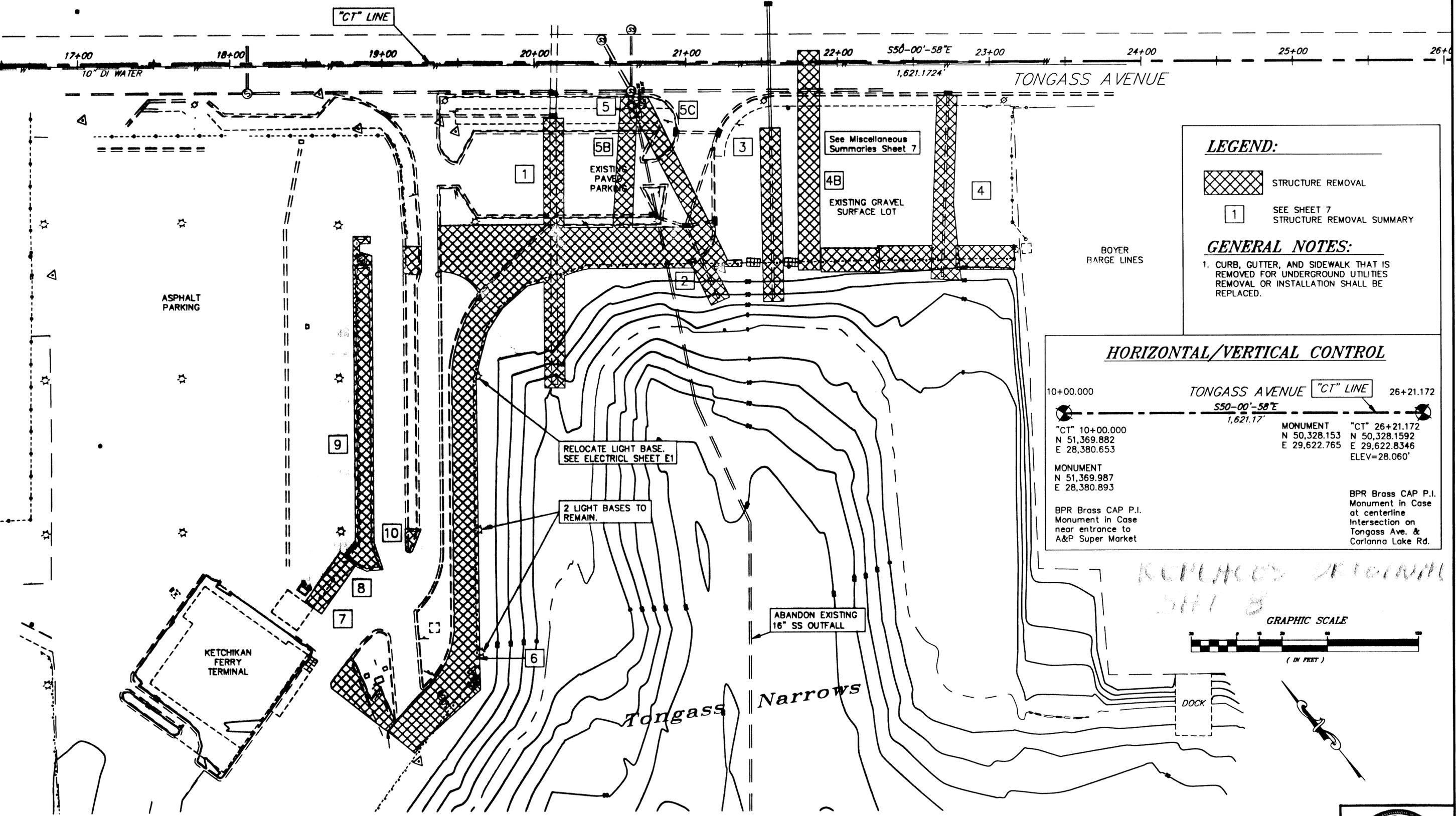
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DESCRIPTION OF CHANGE:
ORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(67) / 67857
MISCELLANEOUS SUMMARIES
--CHANGE ORDER #1--

DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S.
CHECKED BY: Miller
PROJECT NO. 67857
DATE: March 2001
SHEET 43 OF ?





LEGEND:

STRUCTURE REMOVAL

SEE SHEET 7
STRUCTURE REMOVAL SUMMARY

GENERAL NOTES:

1. CURB, GUTTER, AND SIDEWALK THAT IS REMOVED FOR UNDERGROUND UTILITIES REMOVAL OR INSTALLATION SHALL BE REPLACED.

HORIZONTAL/VERTICAL CONTROL

10+00.000	TONGASS AVENUE "CT" LINE	26+21.172
S50-00'-58"E 1,621.17'		
"CT" 10+00.000 N 51,369.882 E 28,380.653	MONUMENT	"CT" 26+21.172 N 50,328.153 E 29,622.765 ELEV=28.060'
MONUMENT N 51,369.987 E 28,380.893	BPR Brass CAP P.I. Monument in Case at centerline Intersection on Tongass Ave. & Carlanna Lake Rd.	

REPLACES ORIGINAL
SHEET 8

GRAPHIC SCALE
(IN FEET)

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\Ktn\67857\Dr\col\RE08-Demo.dwg		
LOT: Fri, Mar 09, 2001 02:54PM Bert		
DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

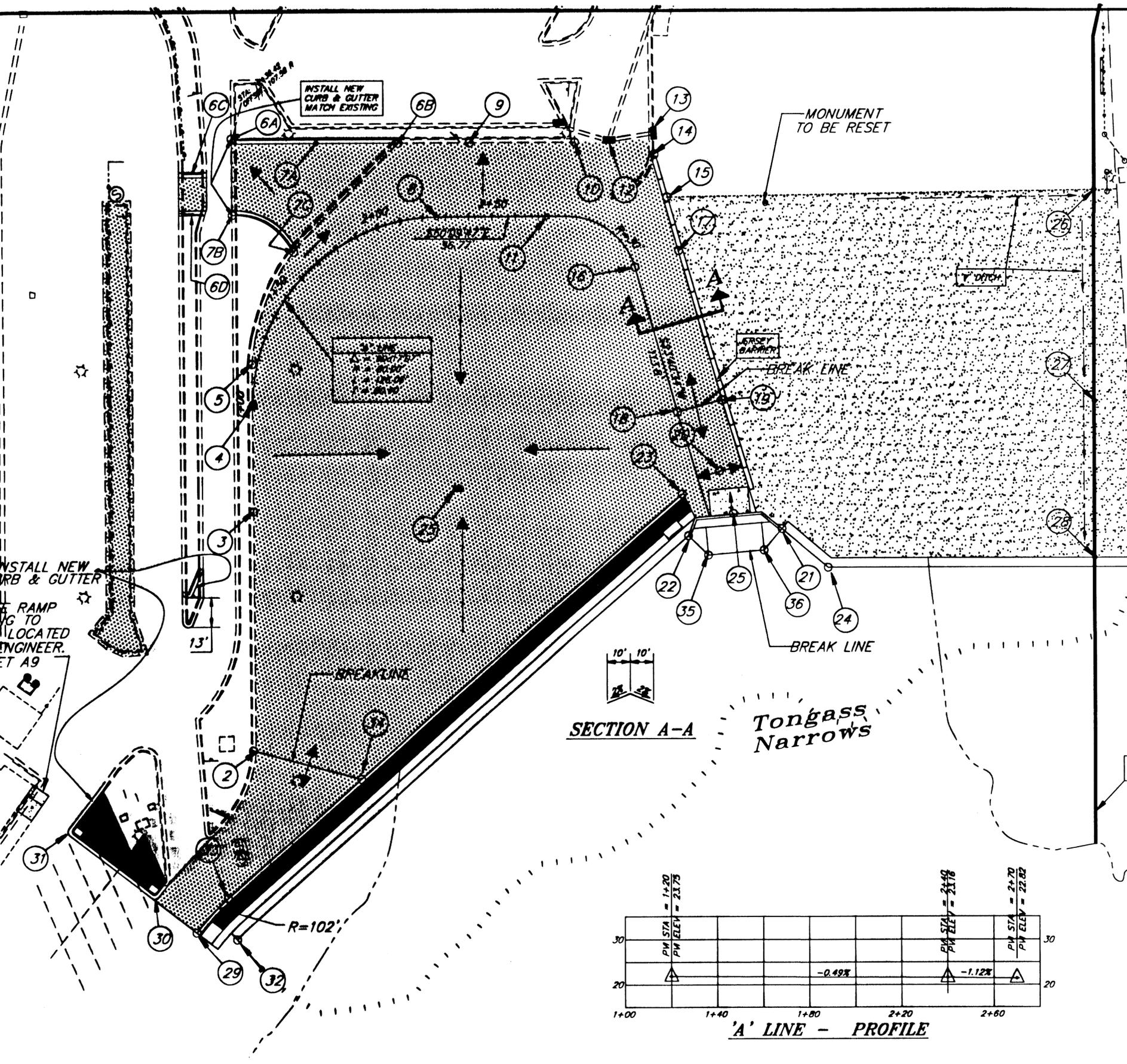
KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
Project No. MGS - 0003(87) / 87857

DEMOLITION PLAN/PROJECT CONTROL

--CHANGE ORDER #1--

DESIGNED BY: Blackburn	PROJECT NO. 67857
DRAWN BY: D.B./R.S.	DATE: March 2001
CHECKED BY: Miller	SHEET 44 OF ?





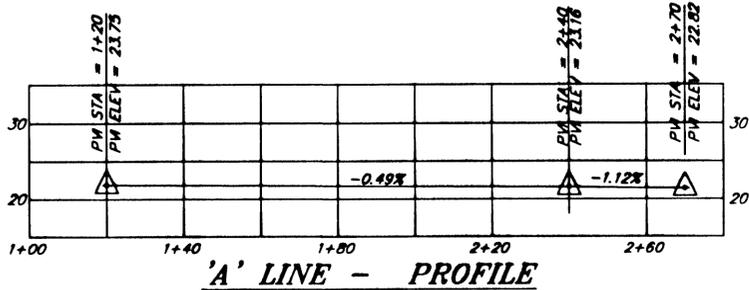
NOTES:

1. ALL ELEVATIONS ARE EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
2. TWO CONCRETE LIGHT BASES WILL REMAIN IN THE STAGING AREA. THE CONTRACTOR WILL HAVE TO WORK AROUND THESE BASES. REFER TO ELECTRICAL DRAWINGS & SPECIFICATIONS.
3. FILL PLACED AGAINST RIPRAP AT BOYER BARGE LINES PROPERTY SHALL BE 1 FT. BELOW FINISH GROUND OF THEIR LOT.
4. THE 10' x 195' TRAFFIC ISLAND REMOVED AT STA. 18+87, 216' RT. WILL NEED TO BE GRADED AND PAVED WITH 2" ASPHALT CONCRETE. SEE SHEET 8.

BOYER
BARGE LINES

STATION, OFFSET & ELEVATION				REMARKS
POINT NO.	'CT' STATION	OFFSET RT	ELEV.	
1	19+61.41	388.02'	22.80	EXISTING GROUND SHOT/LIP OF GUTTER
2	-	370.25'	23.09	EXISTING LIP OF GUTTER
3	-	259.00'	24.00	EXISTING LIP OF GUTTER
4	19+45.48	219.46'	-	BEGINNING OF 'A' LINE
5	-	203.00'	23.75	EXISTING LIP OF GUTTER
6A	19+37.11	105.58'	23.00	BEGIN NEW CURB & GUTTER
6B	20+08.68	105.59'	22.59	END NEW CURB & GUTTER
6C	19+19.60	119.60'	-	BACK PROPOSED CURB
6D	19+19.60	137.60'	-	BACK PROPOSED CURB
7A	19+89.00	-	22.75	LIP OF GUTTER
7B	19+38.14	137.60'	-	BEGIN NEW CURB & GUTTER/RADIUS BACK OF CURB = 27'
7C	19+61.70	151.00'	-	END NEW CURB & GUTTER, BACK OF CURB
8	20+25.29	138.85'	-	PT GRADING BREAKLINE
9	20+38.00	-	22.52	EXISTING LIP OF GUTTER
10	-	-	22.18	EXISTING LIP OF GUTTER
11	20+82.04	138.71'	-	END OF TANGENT & 'A' LINE
12	-	-	21.95	EXISTING INLET GRATE
13	-	-	22.04	EXISTING INLET GRATE
14	21+19.10	113.50'	-	END OF CURB & GUTTER REMOVAL
15	21+23.70	123.40'	22.27	EXISTING GROUND SHOT
16	21+01.91	160.28'	23.50	PT
17	21+30.10	154.7'	23.50	SPOT ELEVATION
18	21+29.25	222.96'	24.00	SPOT ELEVATION
19	21+48.56	217.76'	24.00	SPOT ELEVATION
20	21+47.40	249.42'	23.30	SPOT ELEVATION
21	21+74.38	274.93'	23.50	BACK CORNER WING WALL
22	21+33.83	277.94'	23.50	BACK CORNER WING WALL
23	21+31.15	259.62'	23.10	CORNER LIP OF GUTTER
24	21+94.41	337.19'	23.04	ANGLE POINT ON RIPRAP
25	N50423.7203 E29090.7291		23.50	IN WATER CONTROL POINT, BEARING : S 34°57'39"W
26	23+10.19	127.19'	21.50	CORNER OF LOT
27	23+10.17	218.41'	21.22	SPOT ELEVATION
28	23+10.16	287.25'	21.00	CORNER OF LOT
29	19+20.29	448.70'	22.77	END LIP OF GUTTER-MATCH EXISTING ASPHALT
30	19+02.55	434.93'	-	PT-LIP OF GUTTER, MATCH EXISTING ASPHALT
31	18+63.87	404.90'	-	PT-LIP OF GUTTER, MATCH EXISTING ASPHALT
32	19+29.37	455.75'	-	END RIPRAP
33	19+33.95	433.99'	-	PT-LIP OF GUTTER
34	19+91.87	382.77'	23.00	LIP OF GUTTER
35	21+42.46	286.35'	15.0	RIPRAP SPOT ELEVATION
36	21+66.58	284.23'	15.0	RIPRAP SPOT ELEVATION

SECTION A-A



LEGEND:

- PROPOSED ASPHALT SIDEWALK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CRUSHED AGGREGATE BASE COURSE
- GRADING BREAKLINE
- DRAINAGE VECTOR
- DITCHING



REPLACES ORIGINAL SHEET 9

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

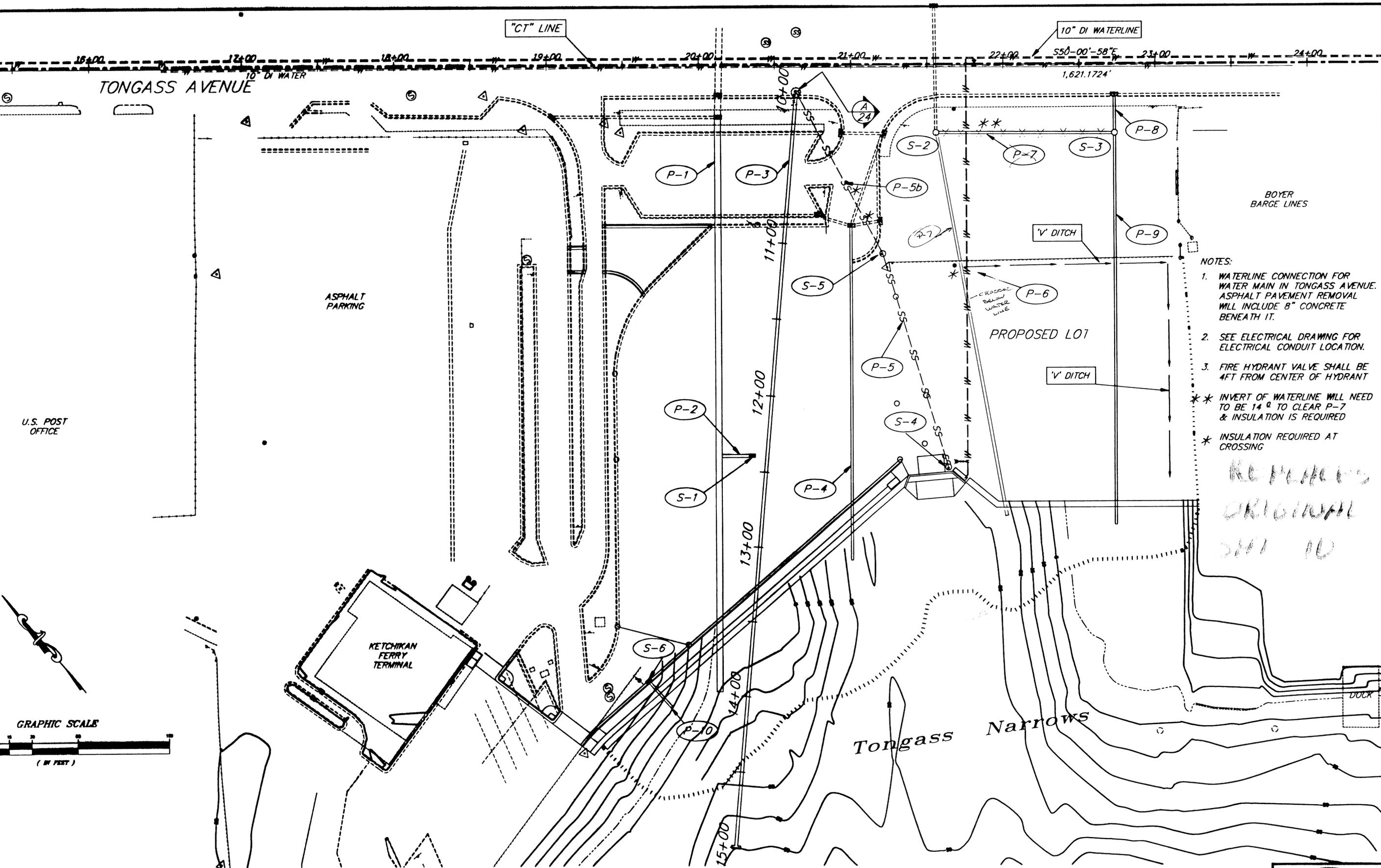
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ORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67657
ALASKA
GRADING PLAN
--CHANGE ORDER #1--

DESIGNED BY: Blackburn	PROJECT NO. 67657
DRAWN BY: D.B./R.S.	DATE: March 2001
CHECKED BY: Miller	SHEET 15 OF ?





- NOTES:
1. WATERLINE CONNECTION FOR WATER MAIN IN TONGASS AVENUE. ASPHALT PAVEMENT REMOVAL WILL INCLUDE 8" CONCRETE BENEATH IT.
 2. SEE ELECTRICAL DRAWING FOR ELECTRICAL CONDUIT LOCATION.
 3. FIRE HYDRANT VALVE SHALL BE 4FT FROM CENTER OF HYDRANT
- * INVERT OF WATERLINE WILL NEED TO BE 14' TO CLEAR P-7 & INSULATION IS REQUIRED
- * INSULATION REQUIRED AT CROSSING

REPLACES ORIGINAL SHEET 10

U.S. POST OFFICE

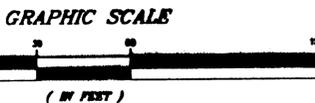
ASPHALT PARKING

BOYER BARGE LINES

PROPOSED LOT

Tongass Narrows

KETCHIKAN FERRY TERMINAL



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

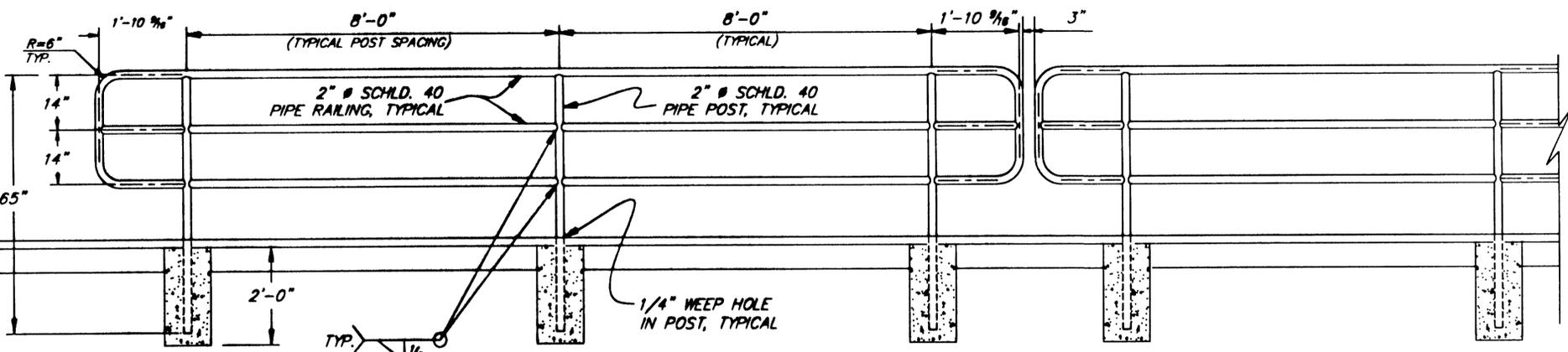
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STATE OF ALASKA
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SOUTHEAST REGION

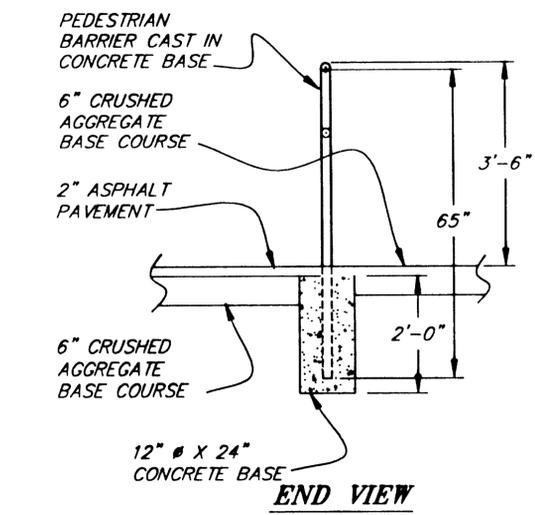
KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67857
DRAINAGE & UTILITY PLAN
--CHANGE ORDER #1--

DESIGNED BY: Blackburn	PROJECT NO. 67857
DRAWN BY: D.B./R.S.	DATE: March 2001
CHECKED BY: Miller	SHEET 16 OF ?



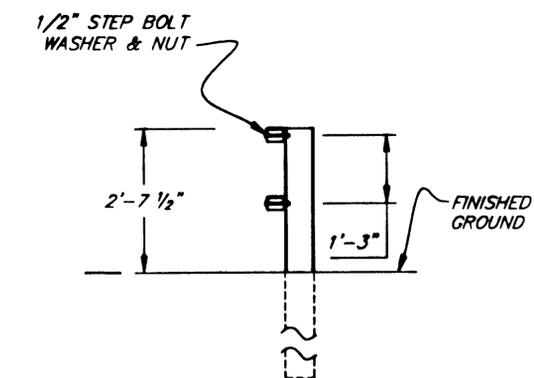


PROFILE
PEDESTRIAN BARRIER
NO SCALE

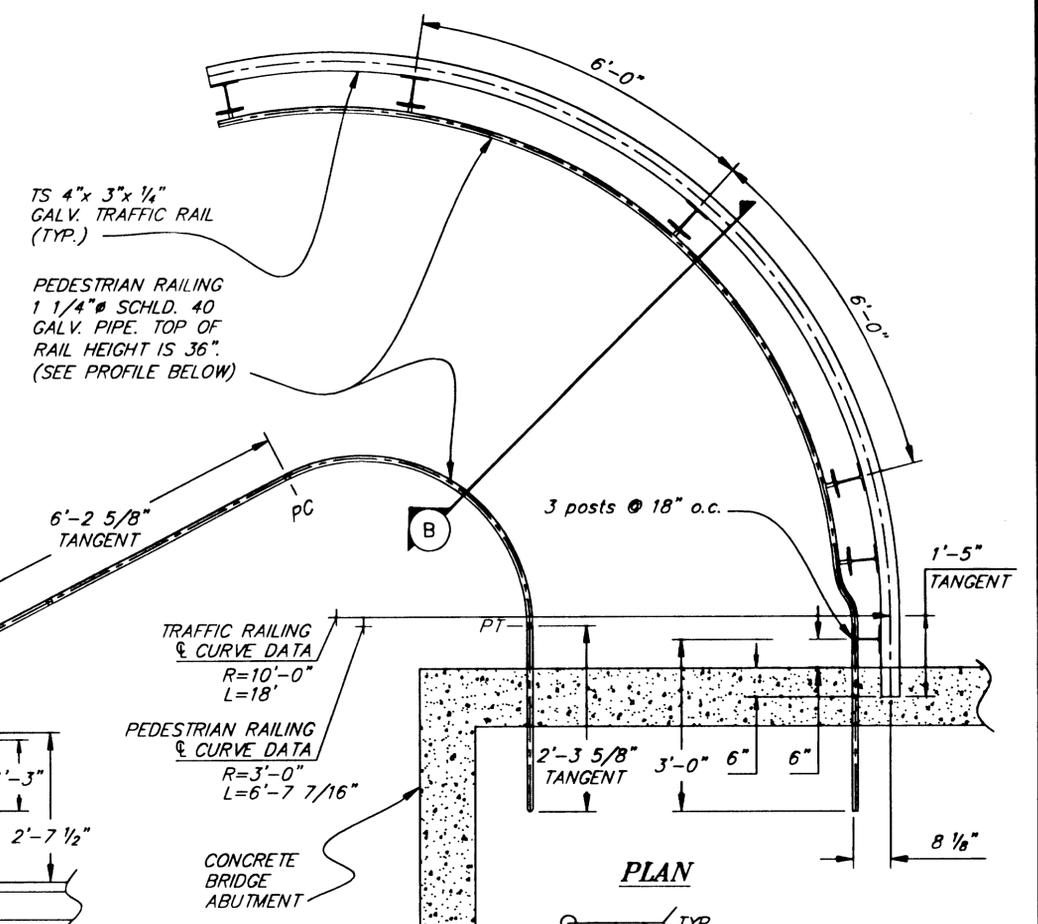


END VIEW

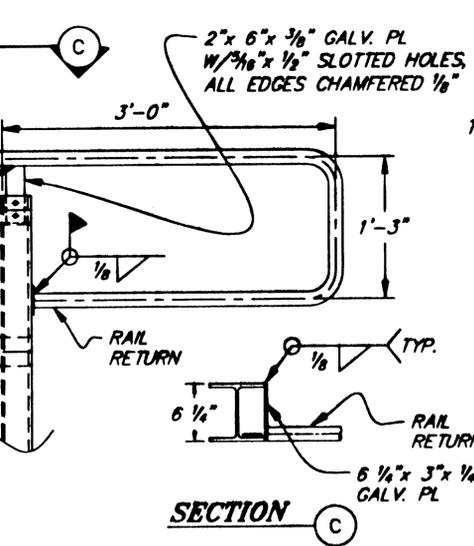
REPLACES ORIGINAL SHEET 22



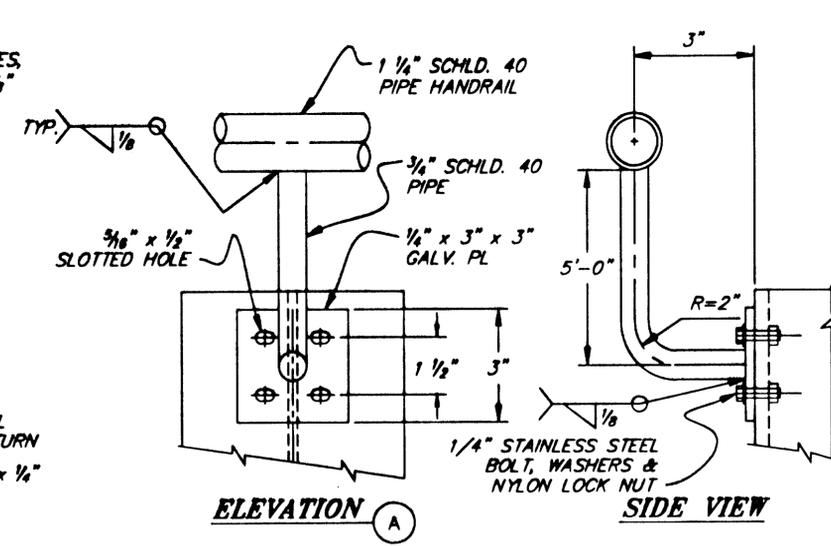
APPROACH RAIL B
TYPICAL SECTION



PLAN

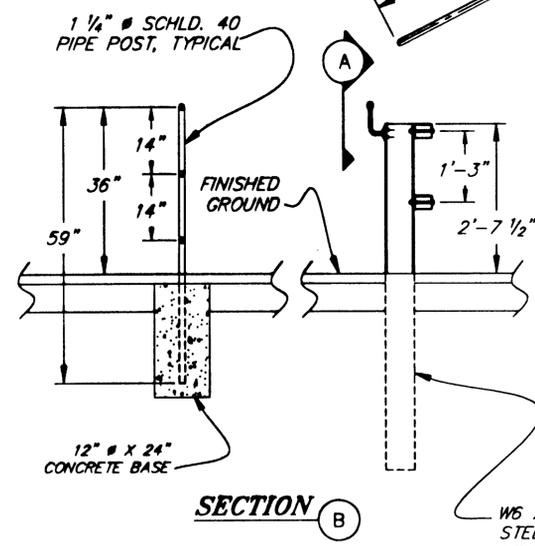


SECTION C



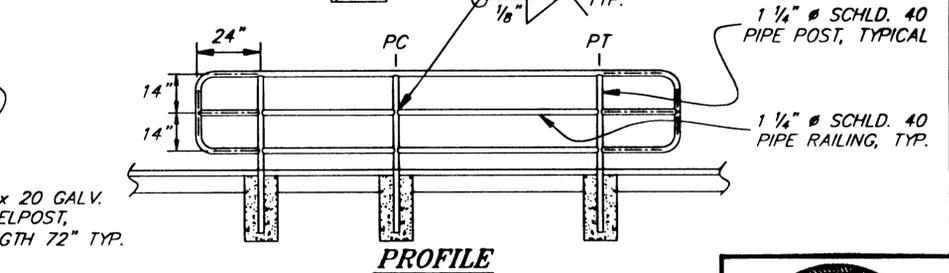
ELEVATION A

SIDE VIEW



SECTION B

APPROACH RAIL A
SEE SHEET 13 FOR PLAN VIEW



PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

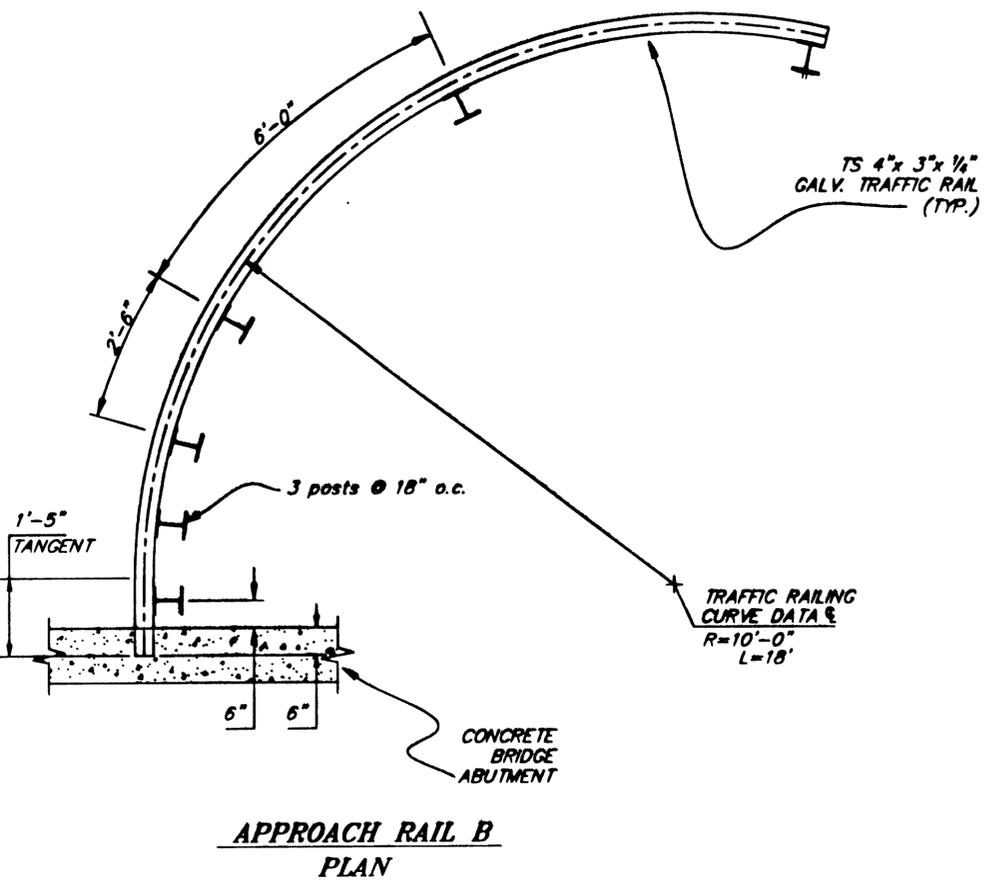
NO.	DESCRIPTION OF CHANGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(87) / 67857
BARRIER & RAILING DETAILS
--CHANGE ORDER #1--

DESIGNED BY: Blackburn	PROJECT NO. 67857
DRAWN BY: D.B./R.S./L.R.	DATE: March 2001
CHECKED BY: Miller	SHEET A7 OF ?





NEW
SHEET

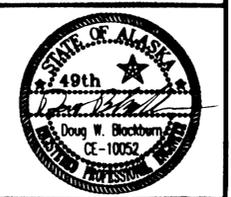
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09, 2001 01:27PM Bert
DESCRIPTION OF CHANGE:
ORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857 ALASKA
BARRIER & RAILING DETAILS
--CHANGE ORDER #1--

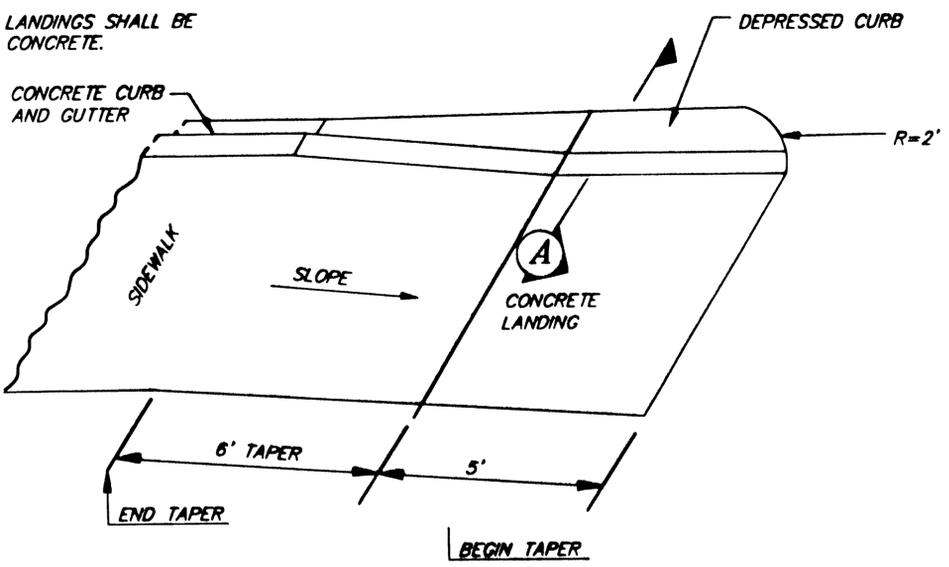
DESIGNED BY: <i>Blackburn</i>	PROJECT NO. 67857
DRAWN BY: <i>D.B./R.S./L.R.</i>	DATE: March 2001
CHECKED BY: <i>Miller</i>	SHEET 10 OF ?



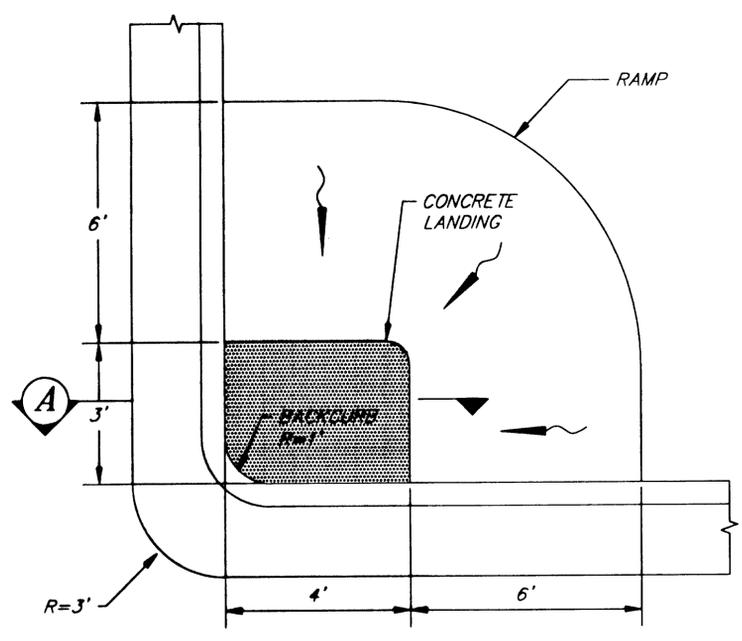
GUTTER JOINTS SHALL
30 FEET.

LANDINGS SHALL BE
CONCRETE.

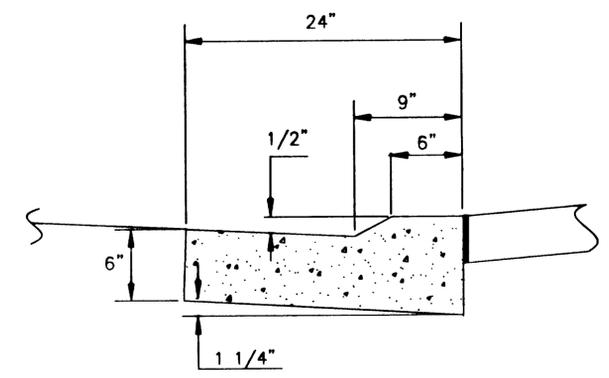
CONCRETE CURB
AND GUTTER



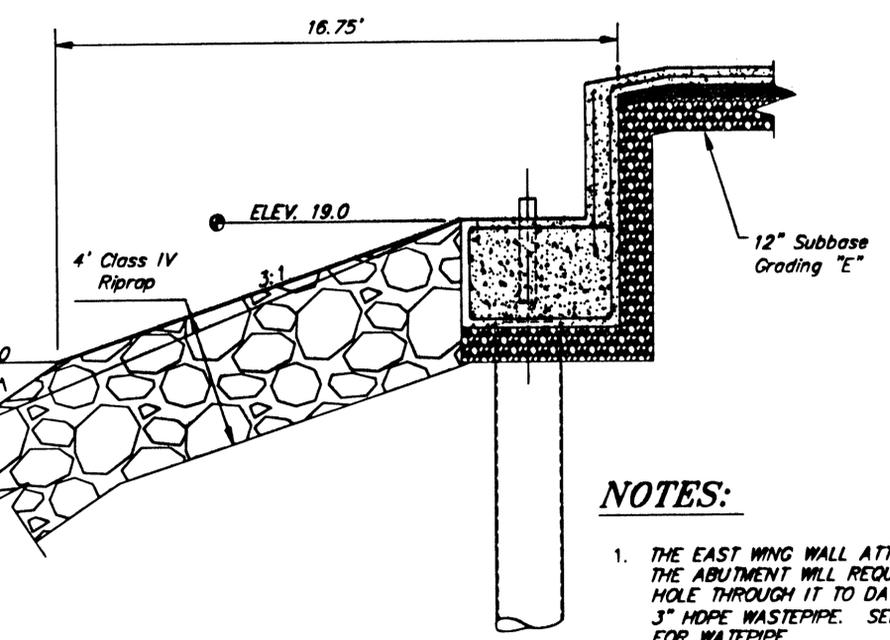
HANDICAP CURB RETURN DETAIL



CROSS WALK LANDING DETAIL



**SECTION A
DEPRESSED CURB**

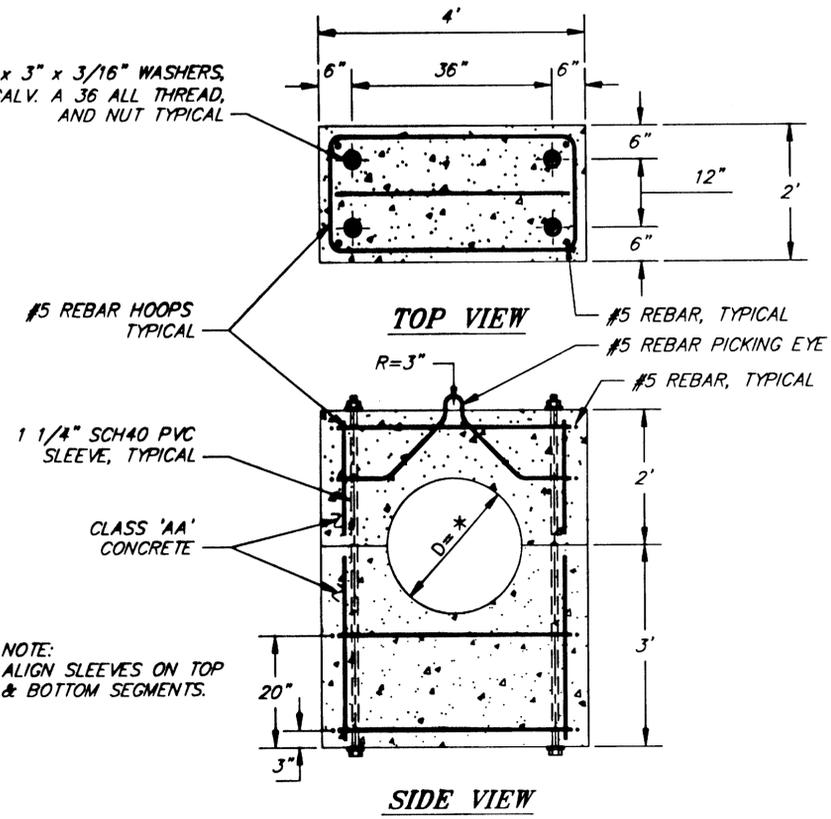


**RIPRAP SECTION
AT ABUTMENT**

NOTES:

1. THE EAST WING WALL ATTACHED TO THE ABUTMENT WILL REQUIRE A HOLE THROUGH IT TO DAYLIGHT THE 3" HOPE WASTEPIPE. SEE SHEET 24 FOR WASTEPIPE.

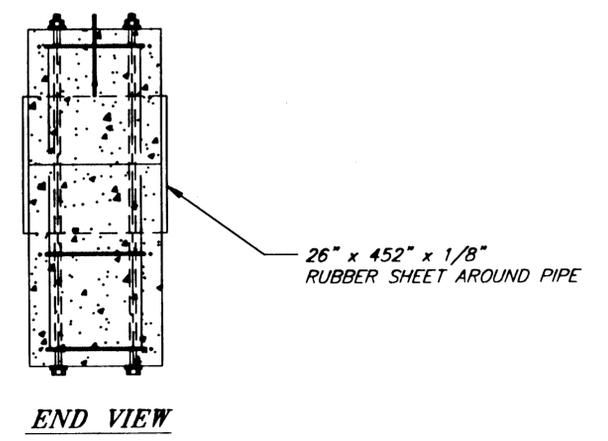
3" x 3" x 3/16" WASHERS,
1" GALV. A 36 ALL THREAD,
AND NUT TYPICAL



ANCHOR BLOCK DETAIL

* MANUFACTURER'S PIPE DIAMETER + 1/4"

REPLACES
ORIGINAL
SHEET 21



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

057\Dr\co1\RE21-MiscDet.dwg
09, 2001 02:59PM Bert

NO.	DESCRIPTION OF CHANGE

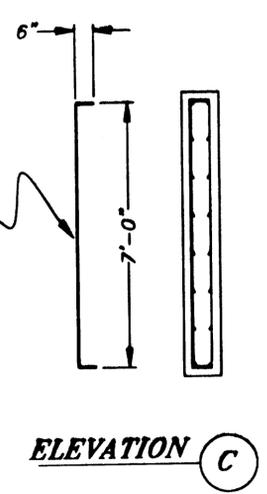
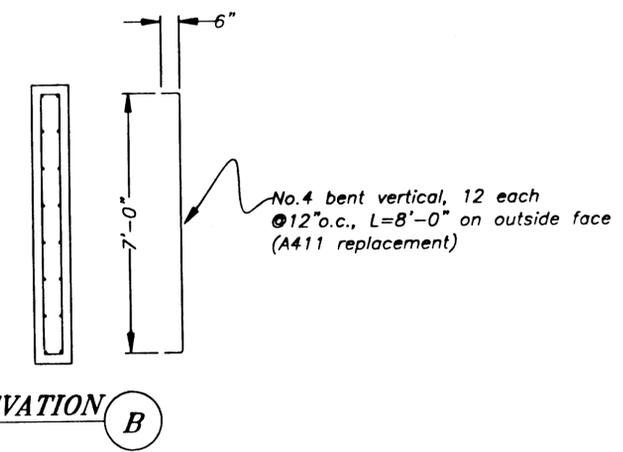
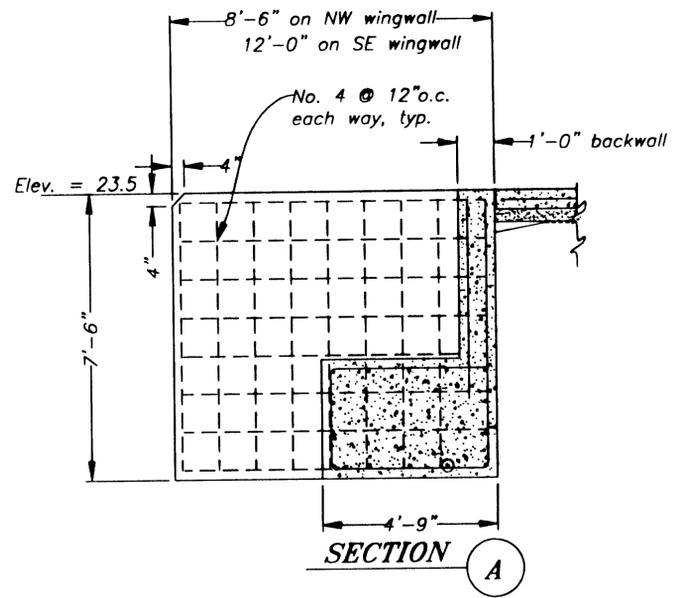
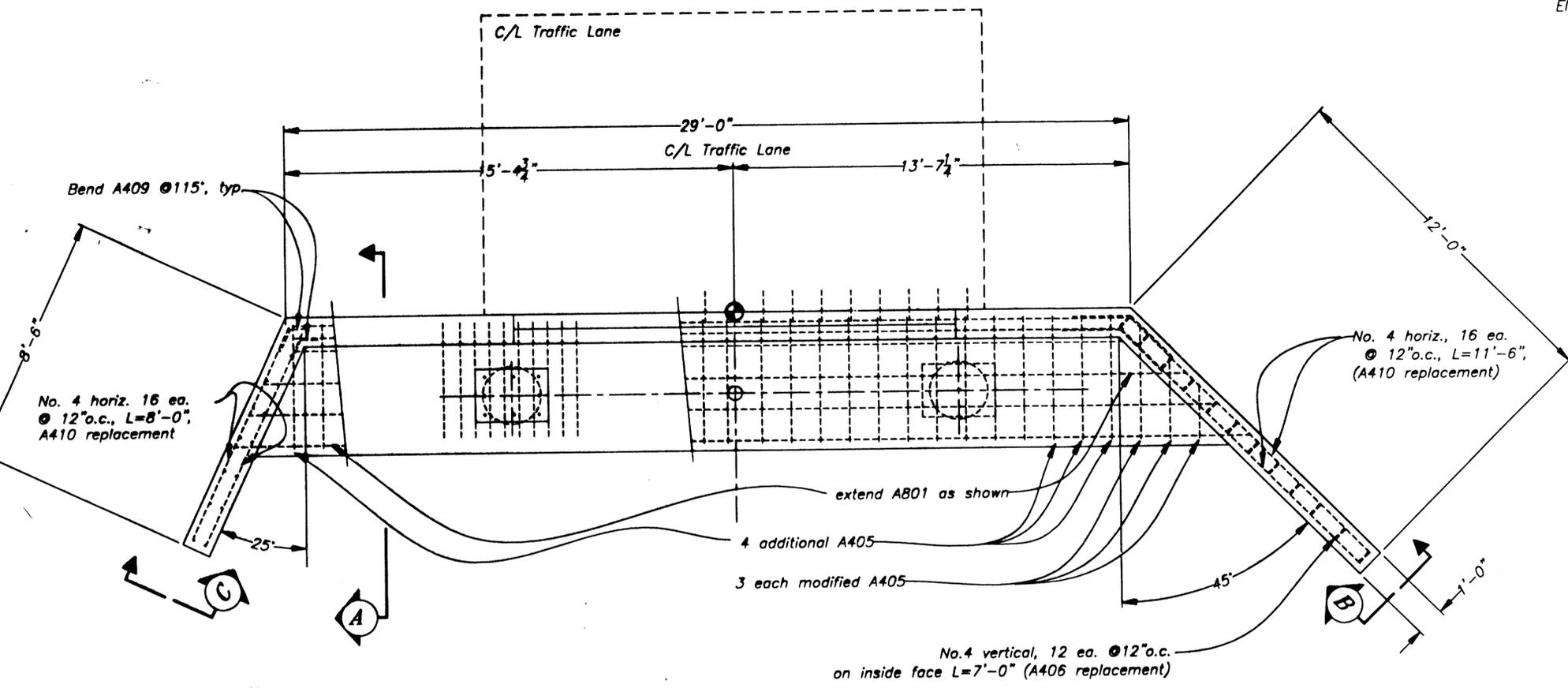
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN TRANSFER FACILITY - PHASE I
Project No. MGS - 0003(67) / 67857
MISCELLANEOUS DETAILS
--CHANGE ORDER #1--

ALASKA
DESIGNED BY: Blackburn
DRAWN BY: D.B./R.S.
CHECKED BY: Miller

PROJECT NO.
67857
DATE:
March 2001
SHEET 19 OF ?





PLAN

ELEVATION B

ELEVATION C

BRIDGE ABUTMENT MODIFICATIONS
 NOTE: ALL OTHER DETAILS REMAIN AS SHOWN
 ON ORIGINAL PLAN SHEETS

NEW
 SITE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

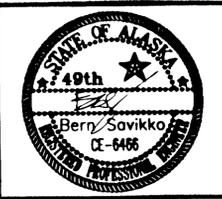
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DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I
 Project No. MGS - 0003(67) / 67857
 ALASKA
BRIDGE ABUTMENT DETAILS
 --CHANGE ORDER #1--

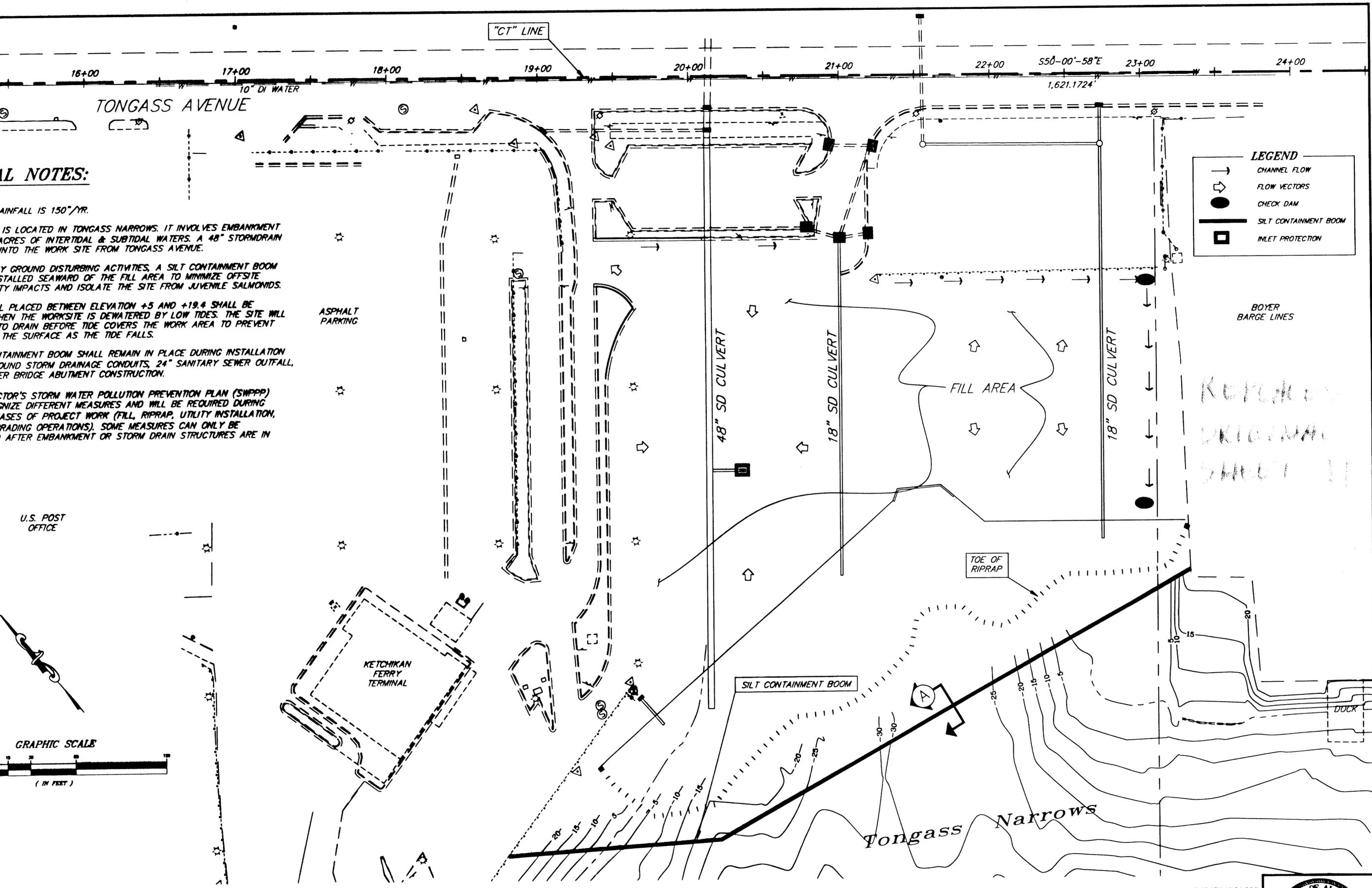
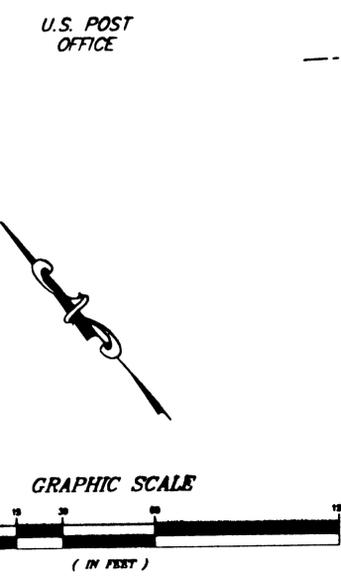
DESIGNED BY: Savikko
 DRAWN BY: Fuman
 CHECKED BY: Miller

PROJECT NO. 67857
 DATE: March 2001
 SHEET A11 OF ?



GENERAL NOTES:

RAINFALL IS 150"/YR.
 IS LOCATED IN TONGASS NARROWS. IT INVOLVES EMBANKMENT
 ACRES OF INTERTIDAL & SUBTIDAL WATERS. A 48" STORMDRAIN
 INTO THE WORK SITE FROM TONGASS AVENUE.
 BY GROUND DISTURBING ACTIVITIES, A SILT CONTAINMENT BOOM
 STALLED SEAWARD OF THE FILL AREA TO MINIMIZE OFFSITE
 IMPACTS AND ISOLATE THE SITE FROM JUVENILE SALMONIDS.
 L PLACED BETWEEN ELEVATION +5 AND +19.4 SHALL BE
 WHEN THE WORKSITE IS DEWATERED BY LOW TIDES. THE SITE WILL
 TO DRAIN BEFORE TIDE COVERS THE WORK AREA TO PREVENT
 THE SURFACE AS THE TIDE FALLS.
 TAINMENT BOOM SHALL REMAIN IN PLACE DURING INSTALLATION
 AROUND STORM DRAINAGE CONDUITS, 24" SANITARY SEWER OUTFALL,
 BRIDGE ABUTMENT CONSTRUCTION.
 CTOR'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
 GNIZE DIFFERENT MEASURES AND WILL BE REQUIRED DURING
 ASES OF PROJECT WORK (FILL, RIPRAP, UTILITY INSTALLATION,
 RADING OPERATIONS). SOME MEASURES CAN ONLY BE
 AFTER EMBANKMENT OR STORM DRAIN STRUCTURES ARE IN



LEGEND

- CHANNEL FLOW
- ⇨ FLOW VECTORS
- CHECK DAM
- SILT CONTAINMENT BOOM
- INLET PROTECTION

REPLACES ORIGINAL SHEET 11

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

857\Dr\co1\RE11-Erosion.dwg
09, 2001 01:31PM Bert
DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

KETCHIKAN KETCHIKAN TRANSFER FACILITY - PHASE I ALASKA
 Project No. MGS - 0003(67) / 67857
EROSION & SEDIMENT CONTROL PLAN
 --CHANGE ORDER #1--

DESIGNED BY: Blackburn
 DRAWN BY: D.B./R.S.
 CHECKED BY: Miller

PROJECT NO. 67857
 DATE: March 2001
 SHEET A120F ?

