

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

A PROJECT AT

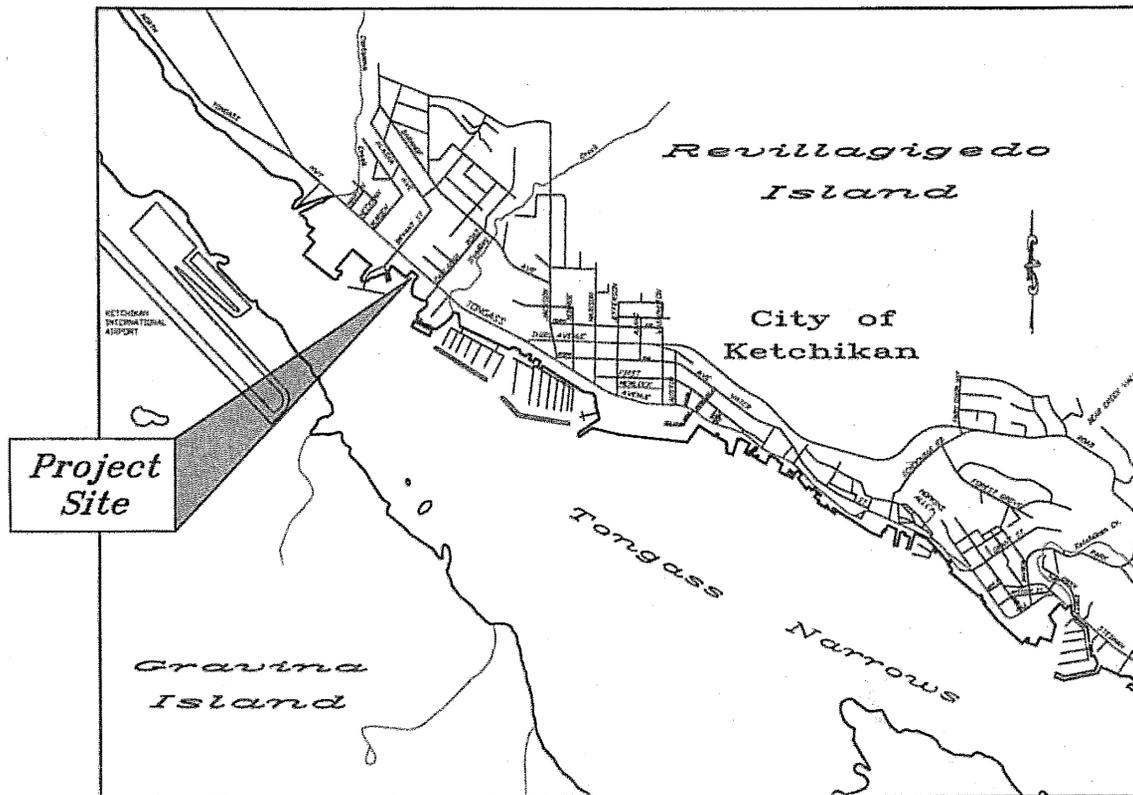
KETCHIKAN, ALASKA
KETCHIKAN BERTH 3

SHORE POWER

PROJECT NO. 67607/MGS-091-1(6)

TIDAL DATA

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



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
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6	Platform Details
7	Power Cable Reel, Platform Supports
8	Platform Ladder, Ships Ladder
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E-02	Single Line - New and Existing
E-03	Generator Building Elevation and Legend
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E-05	Berth 3 Float - Plan View
E-06	Berth 3 Float - Elevation
E-07	Berth 3 Float - Stairway Elevations and Plan
E-08	Elevations & Control Schematics
AS-BUILT PLANS	
CONTRACTOR - CHANNEL ELECTRIC	
PROJ. ENG. - A.K. SHERARD	
DATES OF CONSTRUCTION - SEPT 2006 THRU MARCH 2007	

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 SOUTHEAST REGION

APPROVED Date 2/21/06
 Regional Preconstruction Engineer
 Patrick J. Kemp

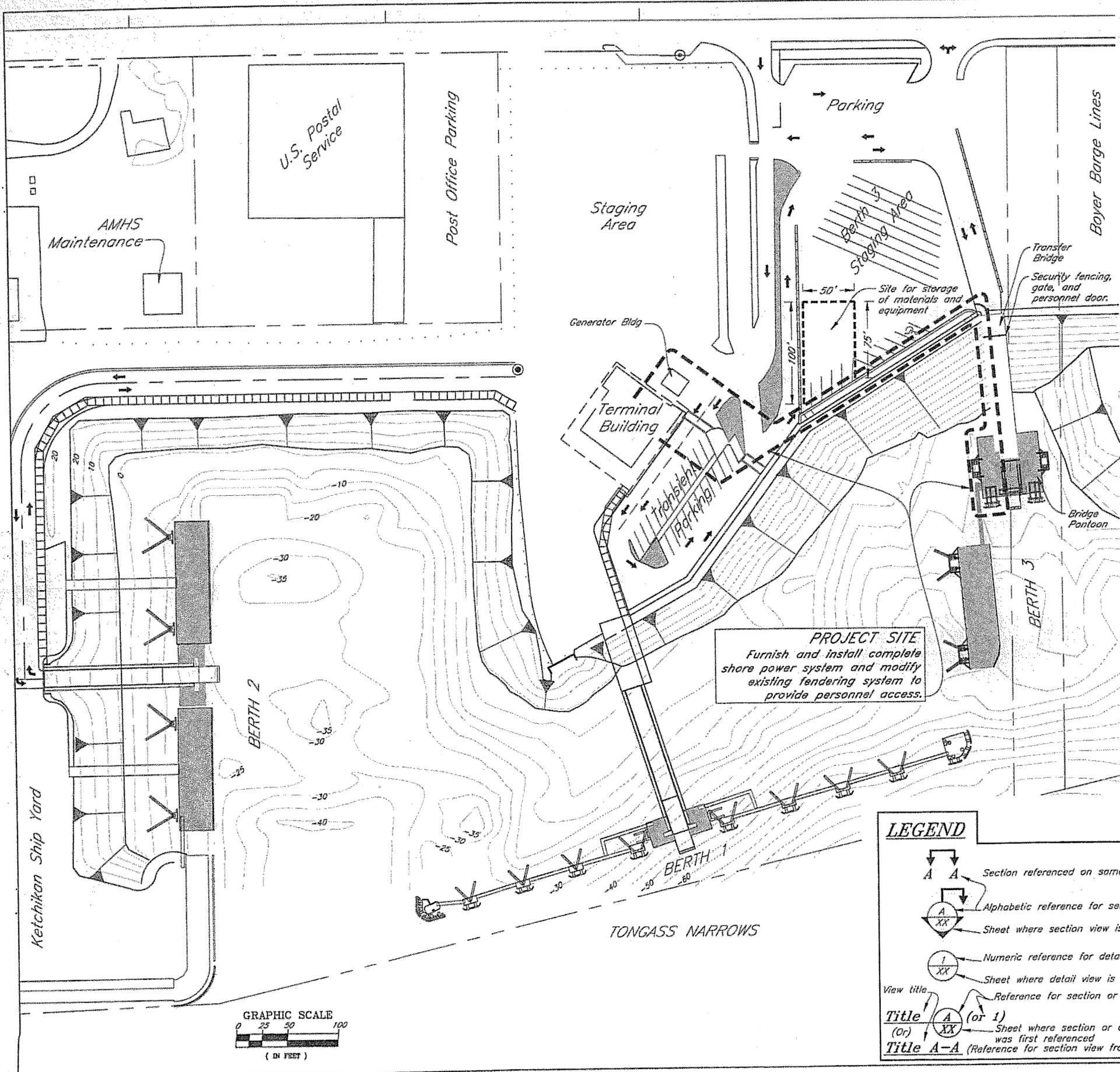
APPROVED Date 2/23/06
 Director, S.E. Region
 Malcolm A. Menzies

PROJECT NUMBER:
67607

DATE:
2006

SHEET **1** OF **17**

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
 Proj. Eng. Date 2-1-07



PROJECT SITE
 Furnish and install complete shore power system and modify existing fendering system to provide personnel access.

Estimate of Quantities

Item No	Pay Item	Pay Unit	Quantity
504(1)	Steel Stairway, Platform and Miscellaneous Steel Structures 35,000	Lump Sum	All Req'd
504(2)	Aluminum Ships Ladder 5,000	Lump Sum	All Req'd
640(1)	Mobilization and Demobilization 8,000	Lump Sum	All Req'd
640(4)	Worker Meals and Lodging, or Per Diem 2,000	Lump Sum	All Req'd
641(1)	Erosion and Pollution Control Administration 2,000	Lump Sum	All Req'd
641(2)	Temporary Erosion and Pollution Control 2,000	Not used	Contingent Sum
642(1)	Construction Surveying 2,000	Lump Sum	All Req'd
662(1)	Electrical System 115,000	Lump Sum	All Req'd
			169,850
672(2)	Seal Tight Bypass (CO 1)	Lump Sum	All Req'd

General Notes

Specifications & Other Information: Per Contract Documents for Project 67607, see Special Provisions.

Design Standards: AKDOT&PF & Southeast Region Marine Engineering Design Standards

Materials

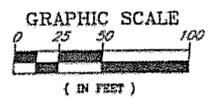
Steel:

- Tube Sections: ASTM A500 Grade B
- Pipe: ASTM A53, Grade B, type E or S
- Stainless: Type 302, 304 or 316
- Steel Shapes & Plates: ASTM A36, A992, or as noted.
- Steel Coatings: All steel fabrications and hardware shall be hot-dip galvanized after fabrication per ASTM A123 and A153.

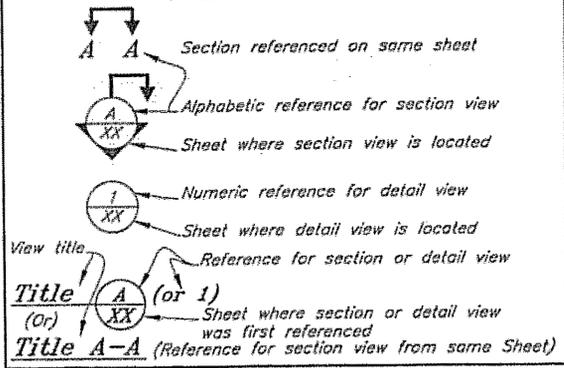
Aluminum: Shapes- ASTM 6061-T6 Plates- ASTM 5086 H112, mill finish

Bolts and Fasteners: ASTM A325 for steel connections.

UHMW Plastic: Ultra high molecular weight plastic (UHMW) shall be made from materials conforming to ASTM D4020. Color shall be black.



LEGEND



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Duggett

CHECKED BY: B. Savikko
 DRAFTED BY: T.D./R.G.

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 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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KETCHIKAN BERTH 3 SHORE POWER MODIFICATIONS

Project Overview

Est Quantities

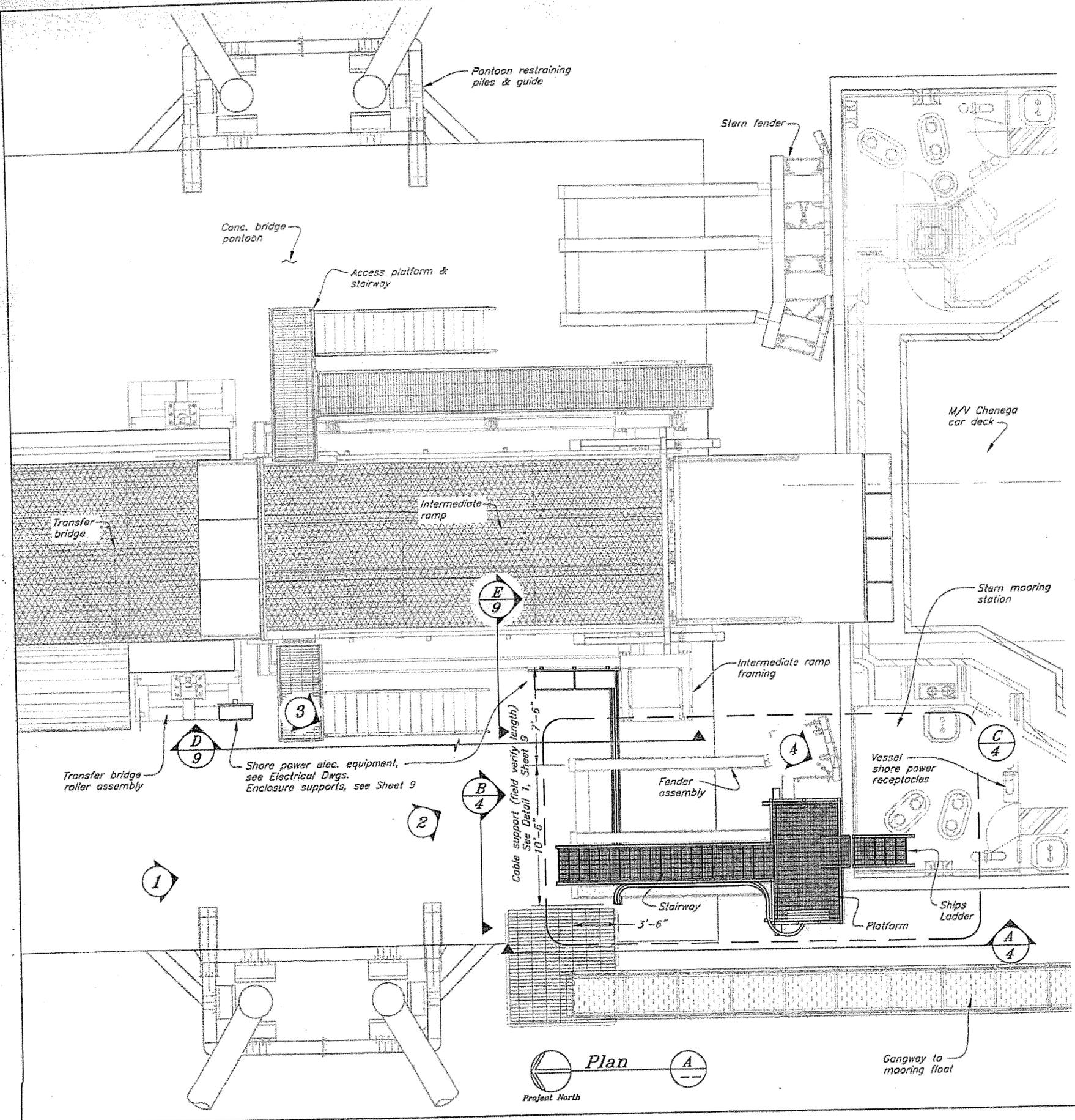
General Notes

2.14.06

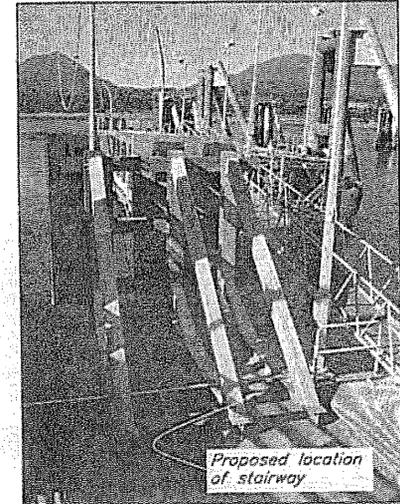
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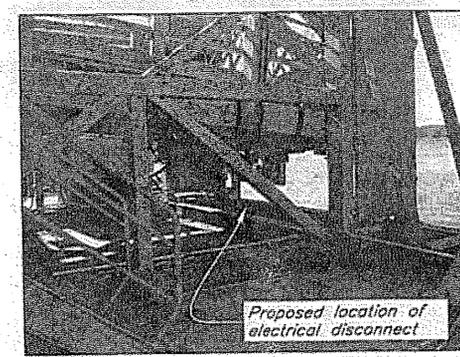
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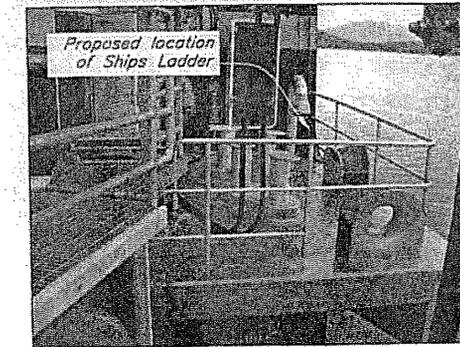
Existing Bridge Pontoon 1



Existing Fender Assembly 3



Existing Ramp Framing 2



Stern Mooring Station 4



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SHORE POWER
MODIFICATIONS**

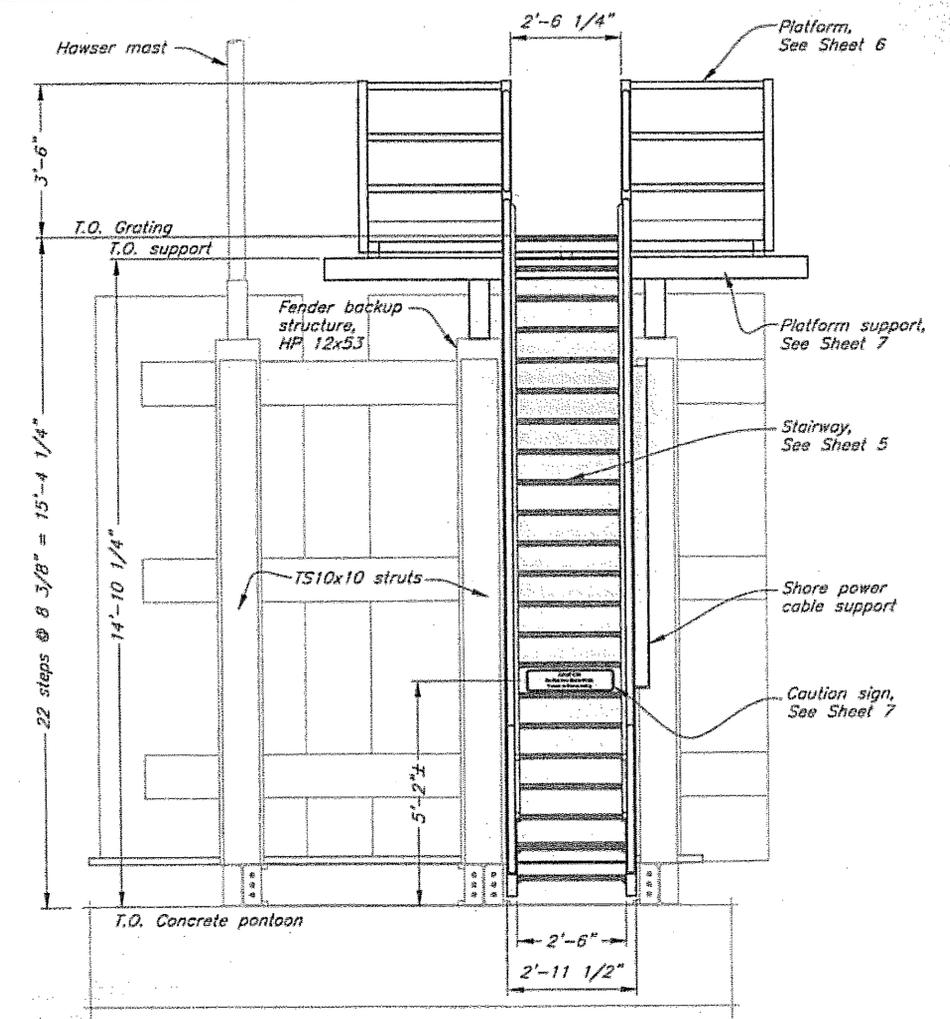
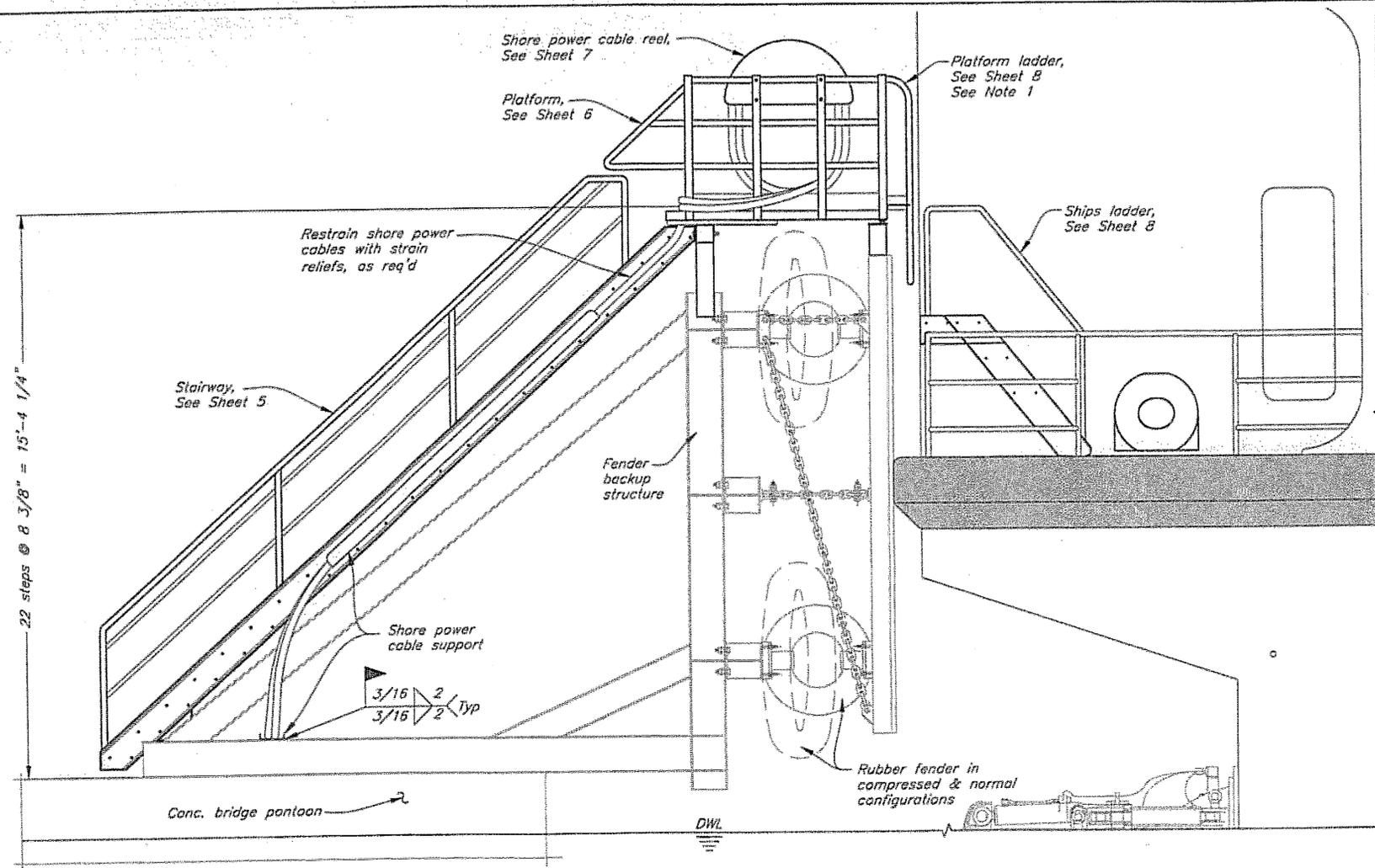
**Partial Plan
Photographs**

CHECKED BY: B. Savikko
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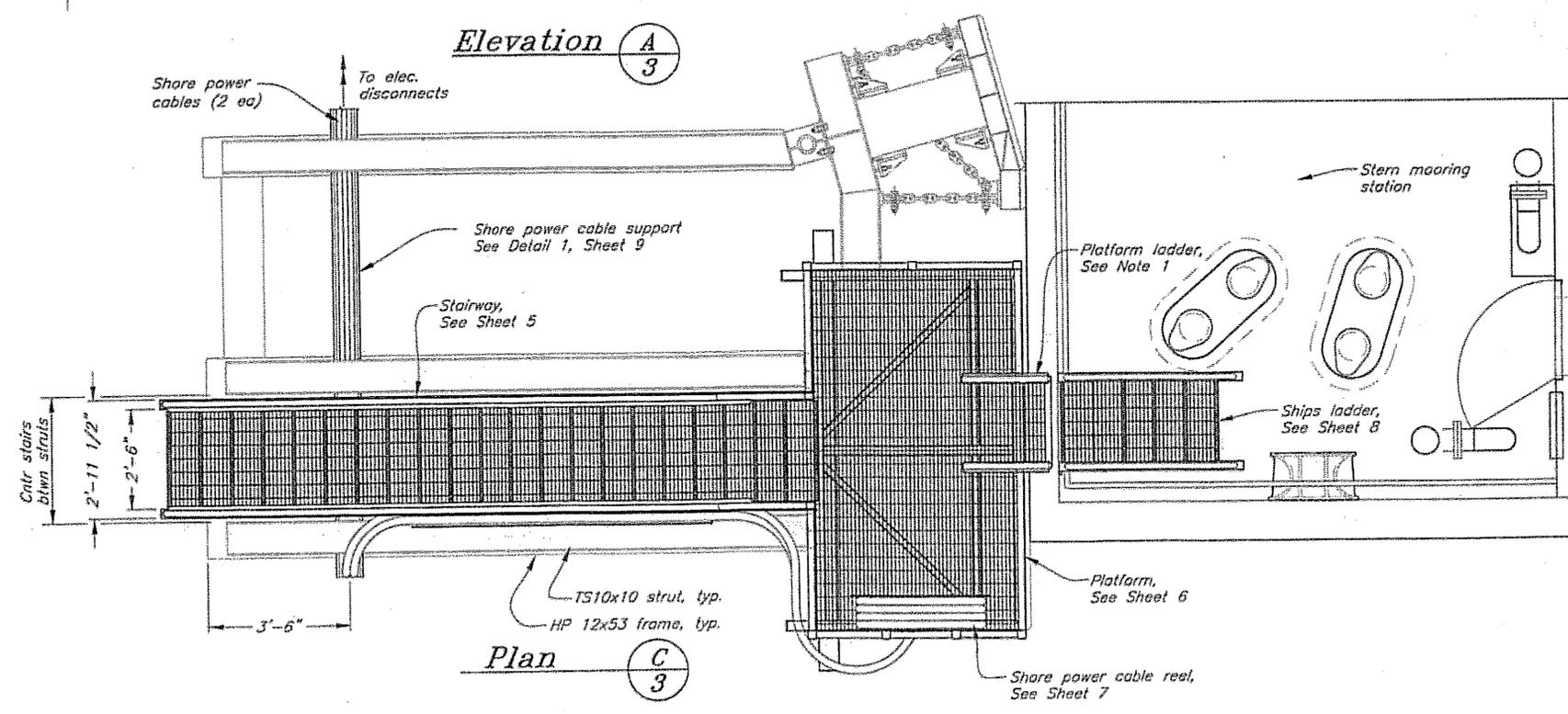
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 Proj. Eng. [Signature] Date 2-1-07



Elevation **A**
3

Elevation **B**
3



Plan **C**
3

NOTES:
1) Platform Ladder to be shipped loose and installed on the platform in the field. Align Platform Ladder with the Ships Ladder placed on the stern mooring station of the vessel.

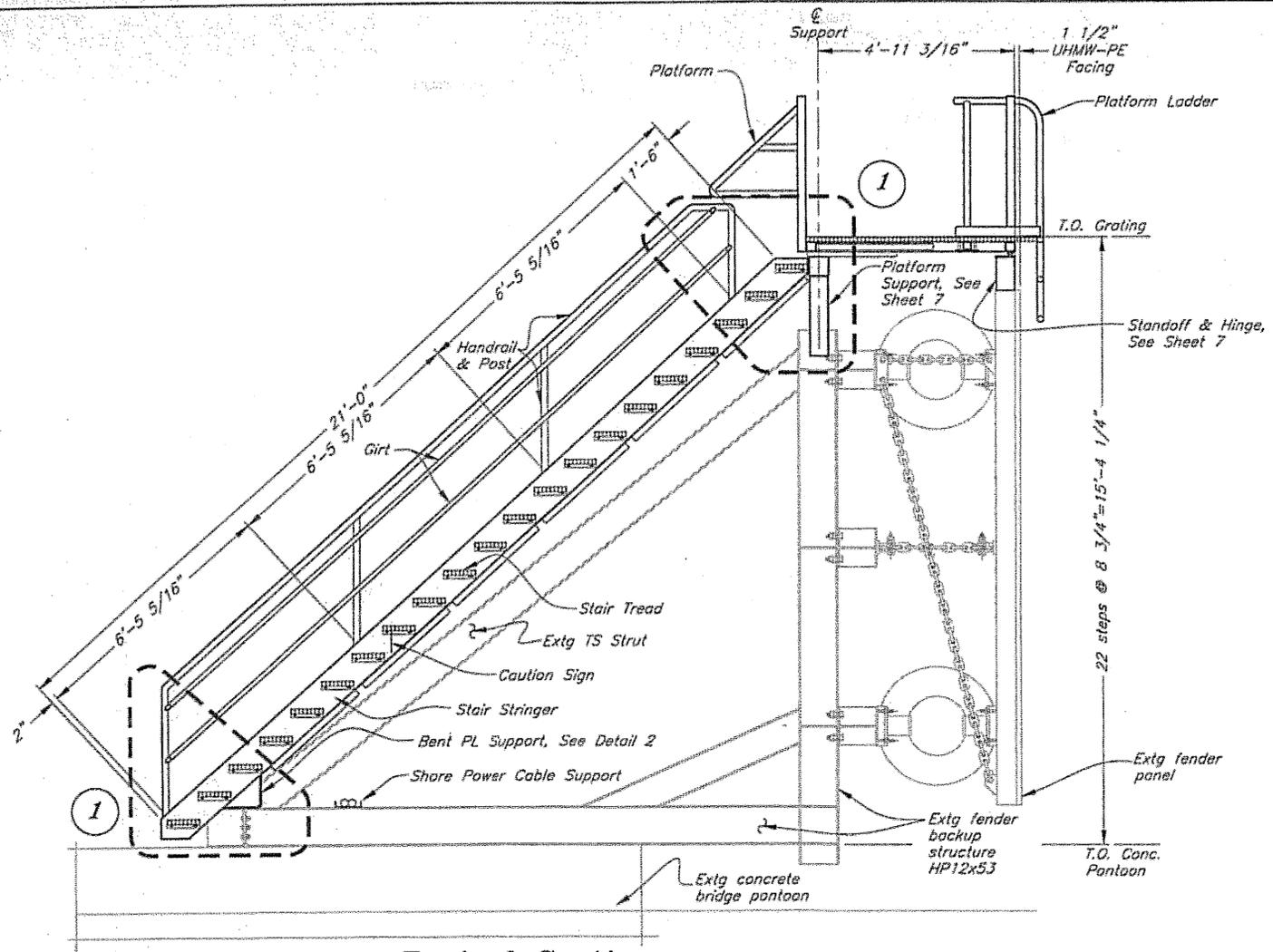
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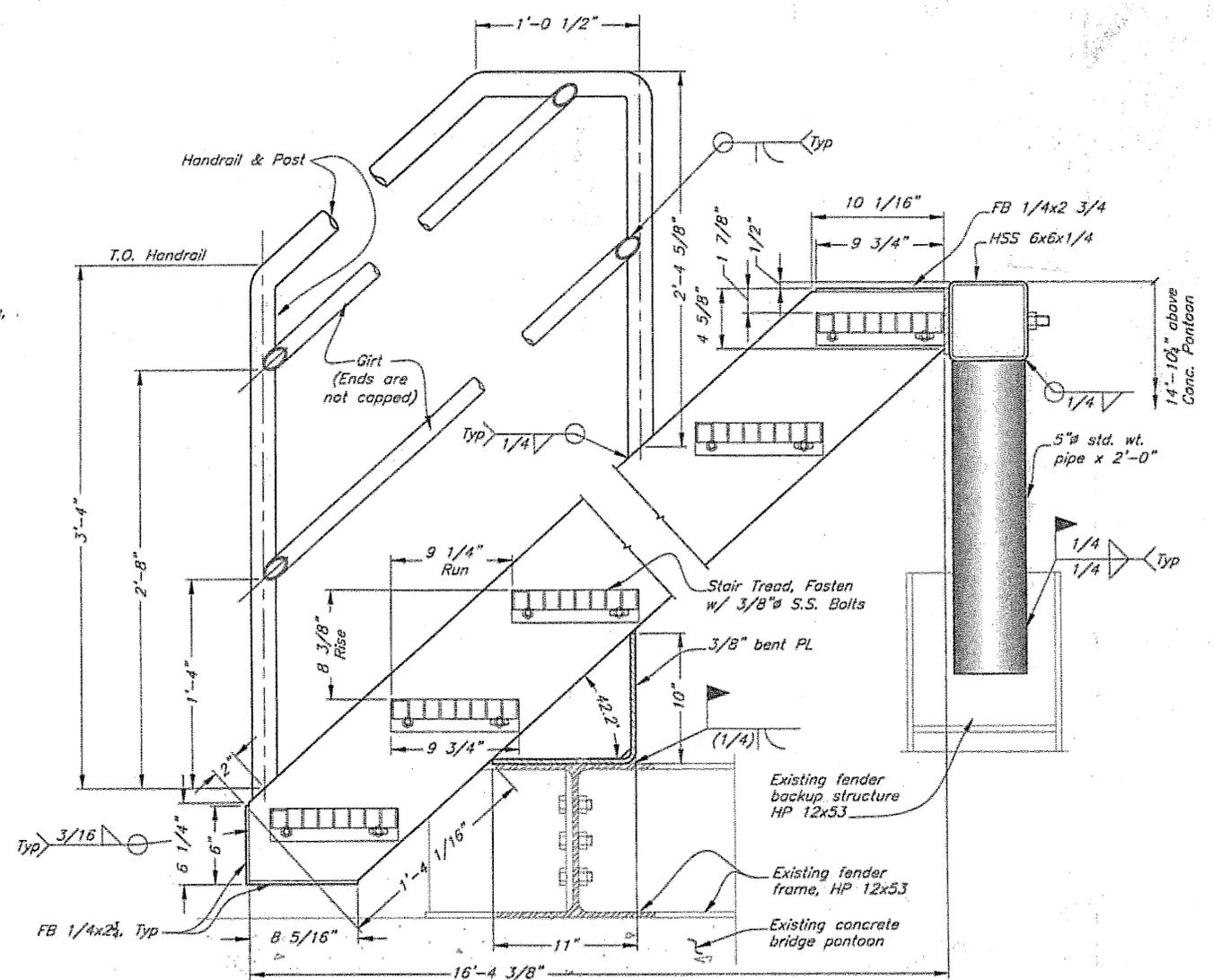
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SHORE POWER
MODIFICATIONS**

**Elevations
Plan**

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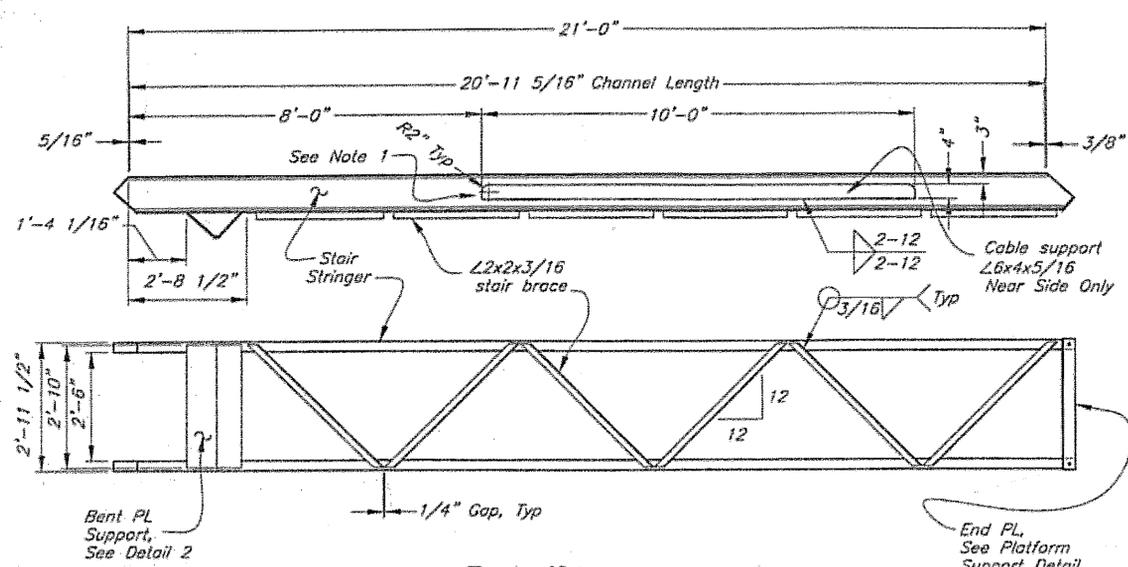
Typical Section



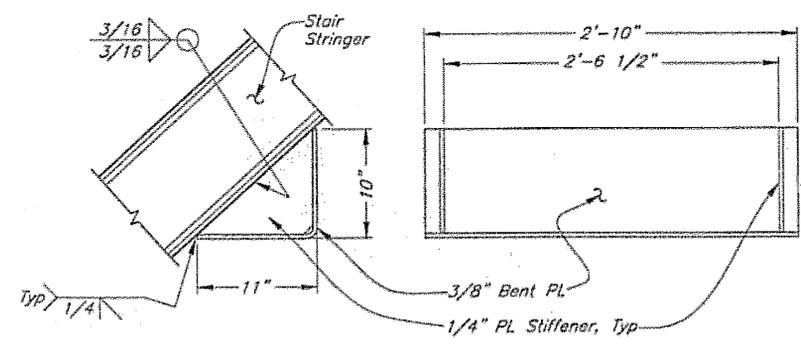
Detail 1 Stairway

Stairway Materials:

- Stringer - C10x20
 - Handrail & Posts - 1 1/2" Std Wt Pipe
 - Girts - 1" Std Wt Pipe
 - Tread - Serrated 1 1/2"x3/16" Bearing Bars at 1 3/16" O.C. and 1/4" Cross Bars at 4" O.C. with checker plate nosing. Fasten with galv. bolts
 - Stair Brace - L 2x2x1/2
 - Cable Support - Stairway L 6x4x1/2 Deck C8x11.5
- Est. weight = 2,000 Lbs.
- Stairway may be shipped in components and assembled in the field with Engineer's written approval.



Detail 2 Stair Stringer



Detail 2 Bent PL Support

Note:
1) Round over inside edges of horizontal and vertical legs of angle to 1/4" radius. Typical both ends of cable support.

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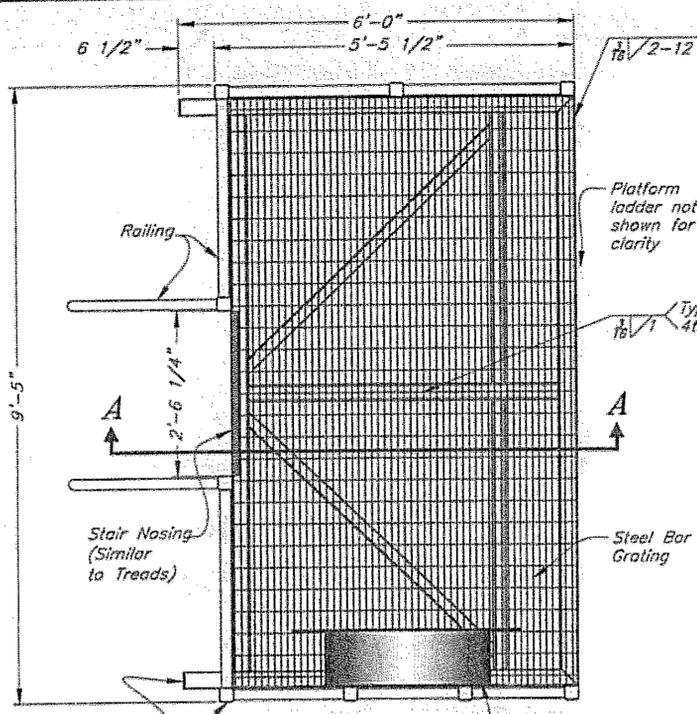
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KETCHIKAN BERTH 3 SHORE POWER MODIFICATIONS

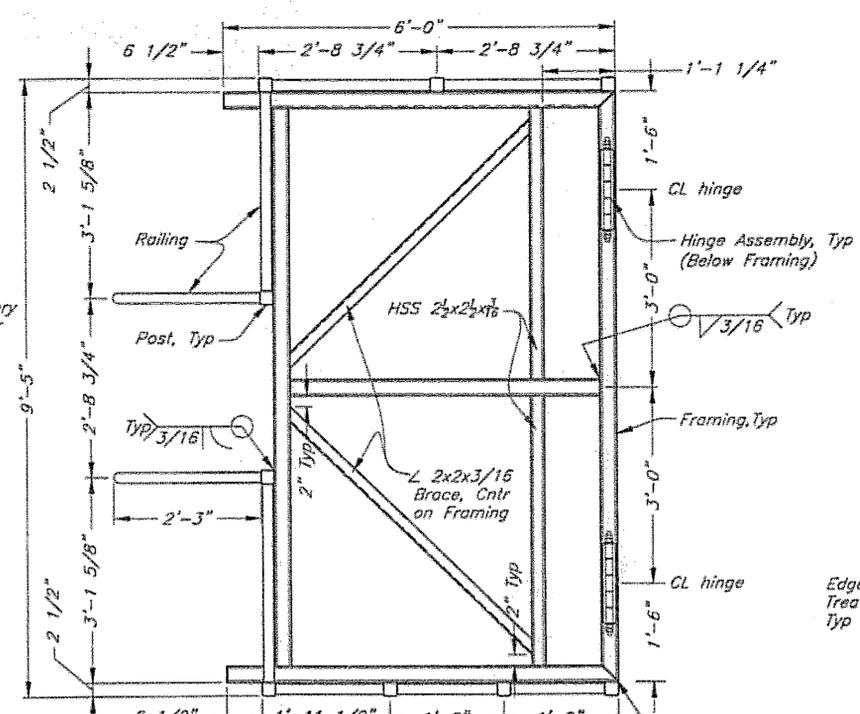
Typical Section Stairway Details

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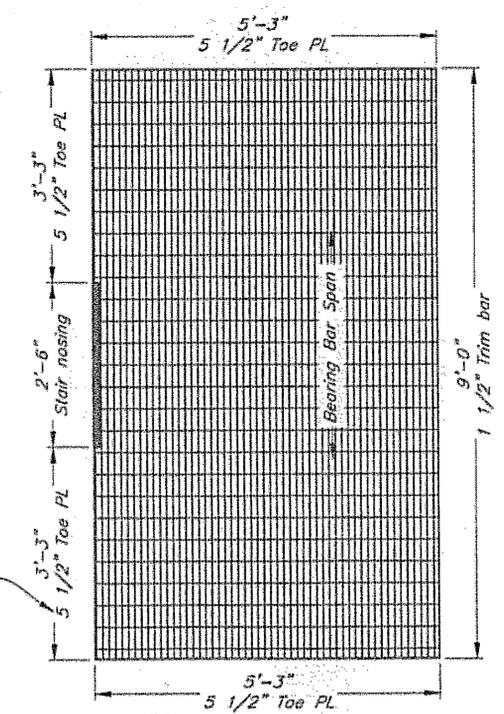
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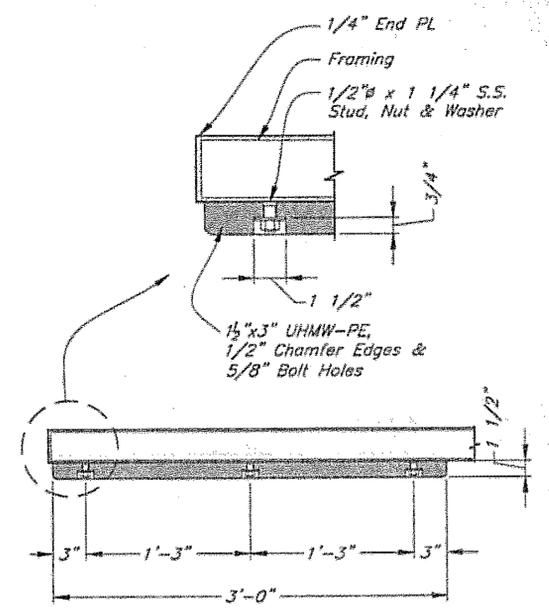
Plan Platform



Plan Platform Framing

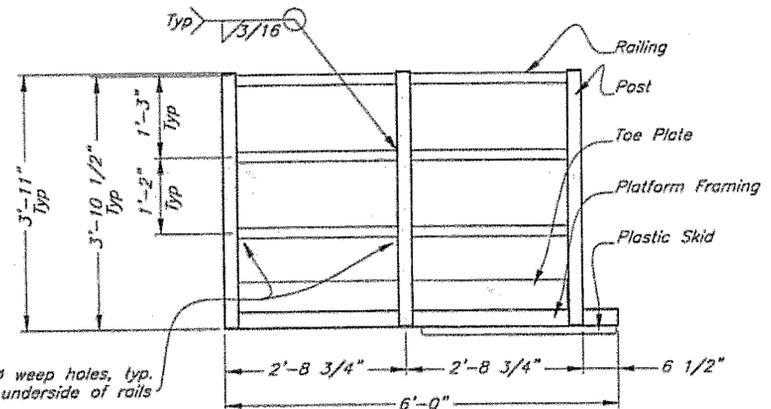


Plan Platform Grating

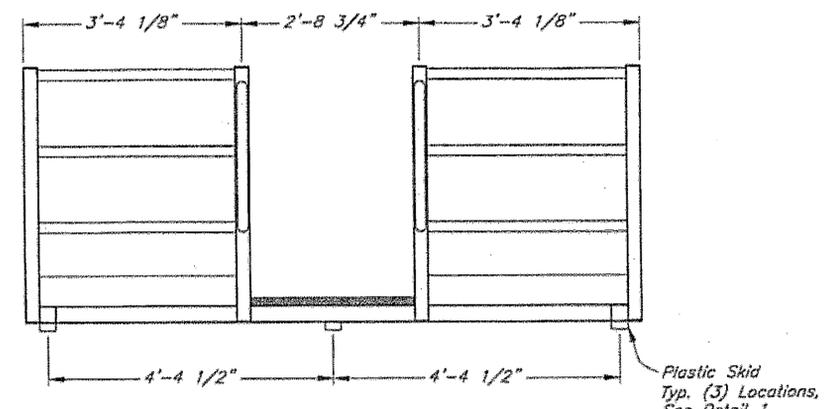


Detail 1 Plastic Skid

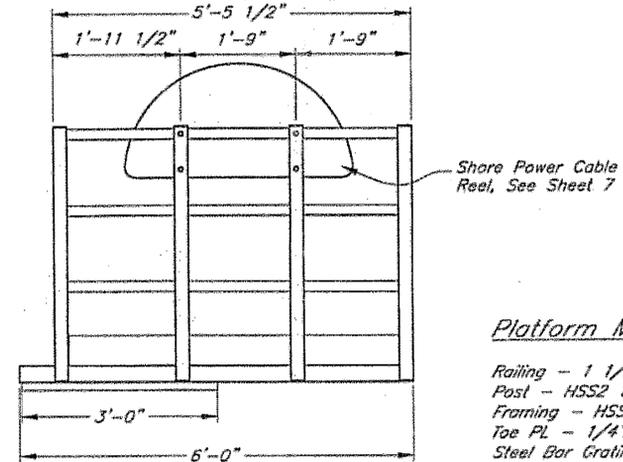
1/4" End PL, Typ all hollow stl sections
Shore Power Cable Reel, See Sheet 7



Elevation East



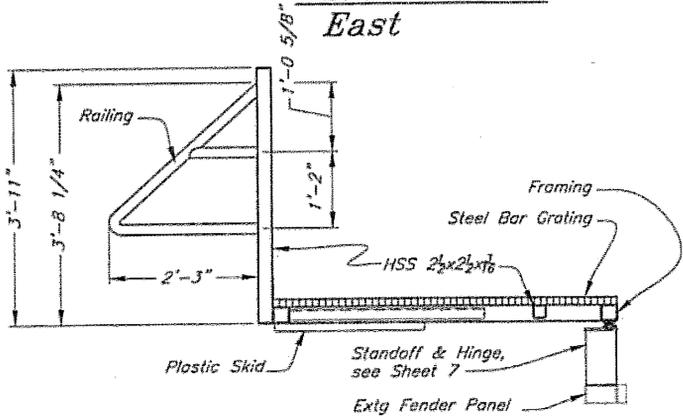
Elevation North



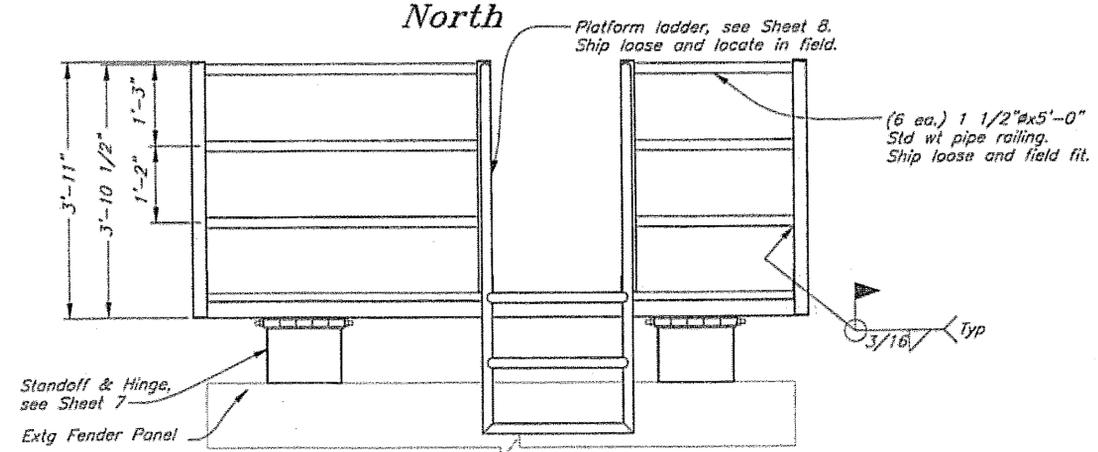
Elevation West

Platform Materials:

- Railing - 1 1/2" Std Wt Pipe
 - Post - HSS 2 1/2 x 2 1/2 x 3/16
 - Framing - HSS 3 x 3 x 3/16, unless otherwise noted
 - Toe PL - 1/4" x 5 1/2"
 - Steel Bar Grating - Serrated 1 1/2" x 1/8" Bearing Bars at 1 3/16" O.C. and 1/4" Cross Bars at 4" O.C.
- Note: Place 1/2" weep holes in btm of all Post End Plates, underside of Framing & underside of Railing.
Est. weight = 1,700 Lbs.



Section A-A Platform



Elevation South

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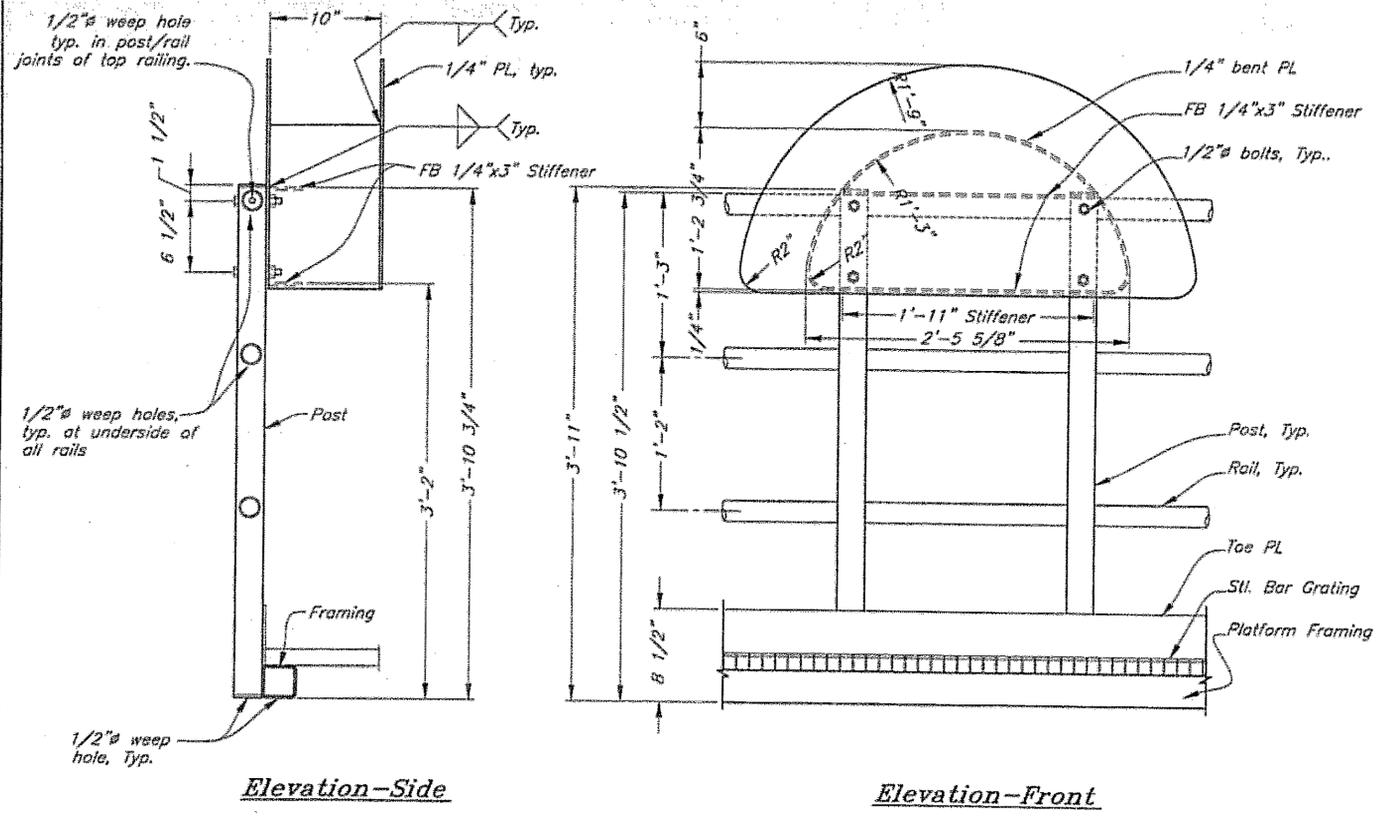
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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN BERTH 3
SHORE POWER MODIFICATIONS

2-14-06

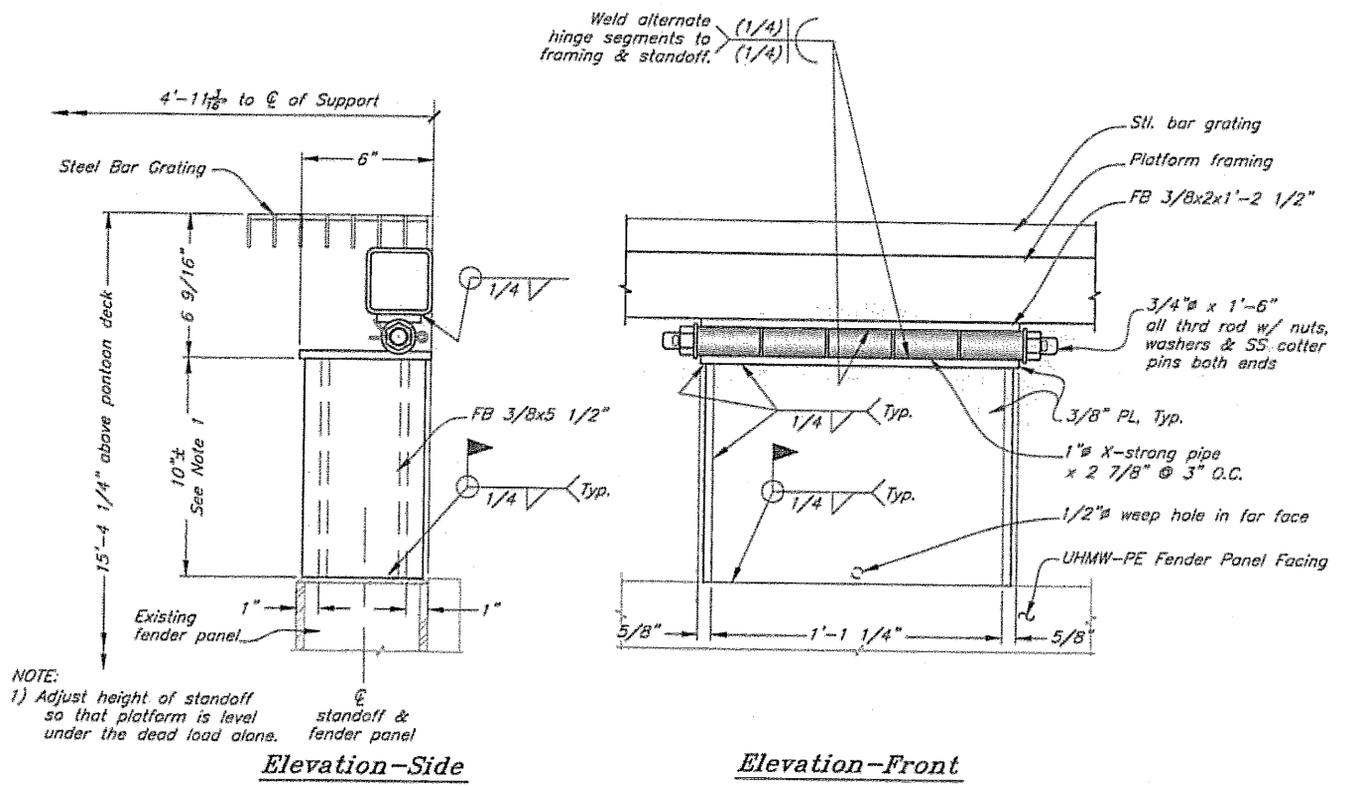
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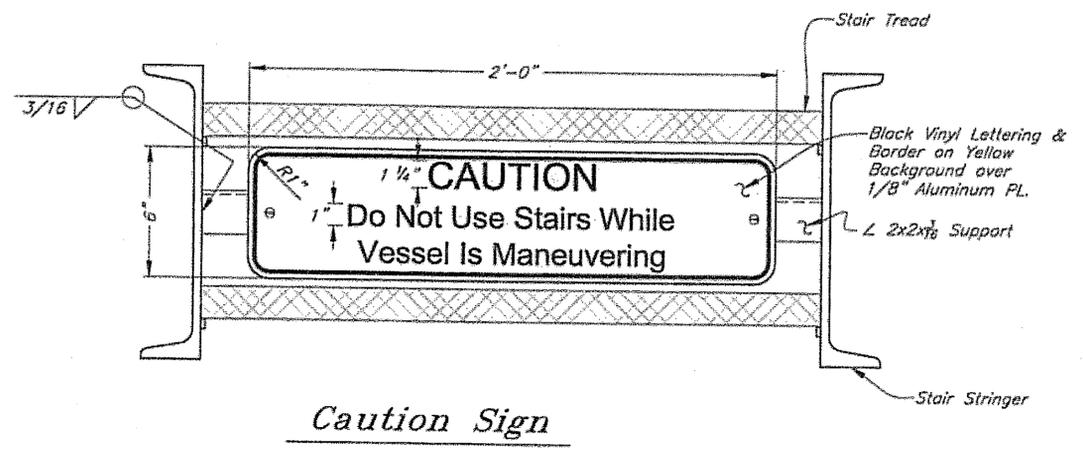
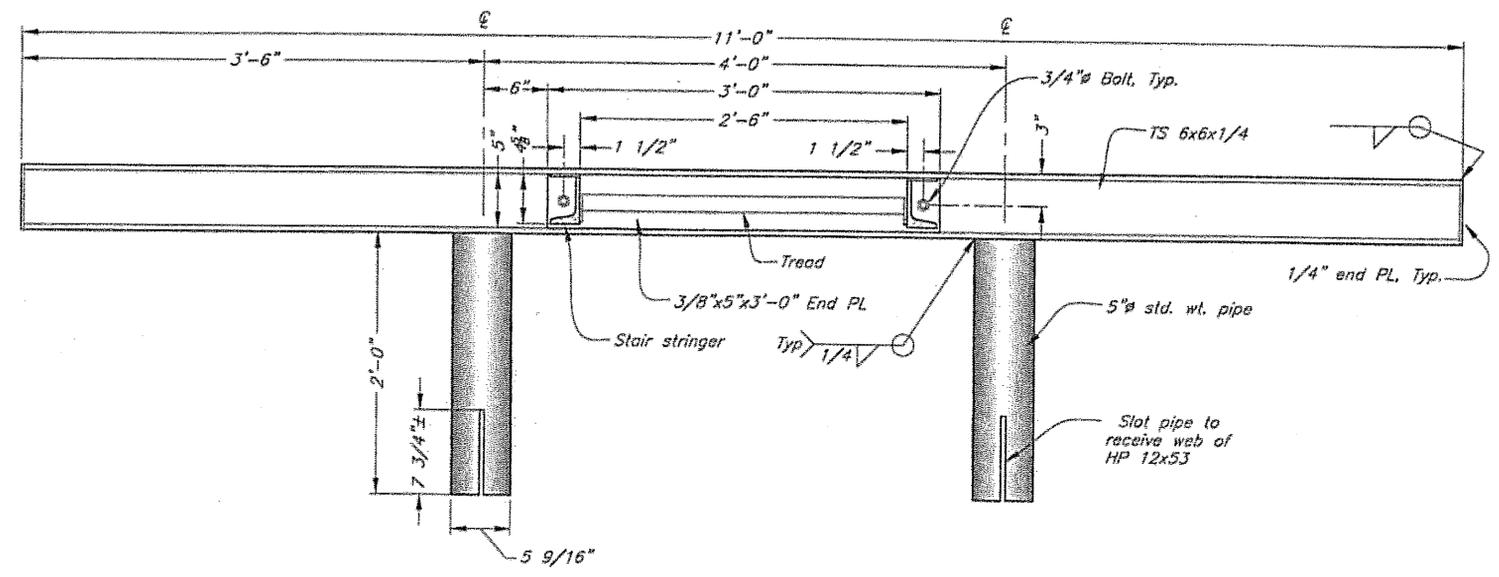
Platform Details



Shore Power Cable Reel



Stand Off & Hinge



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KETCHIKAN BERTH 3
 SHORE POWER
 MODIFICATIONS

Power Cable Reel
 Platform Supports

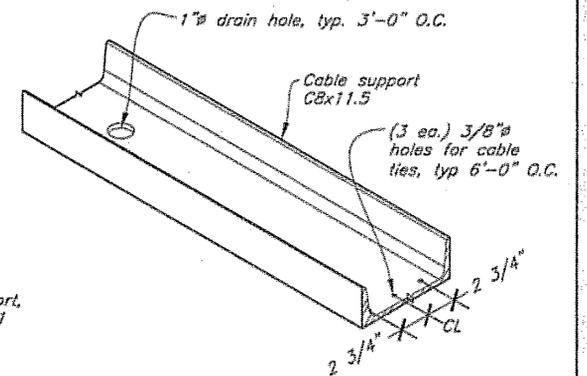
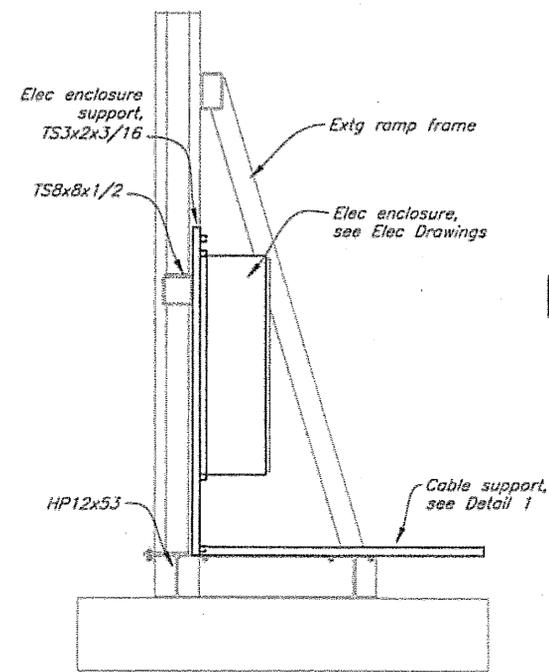
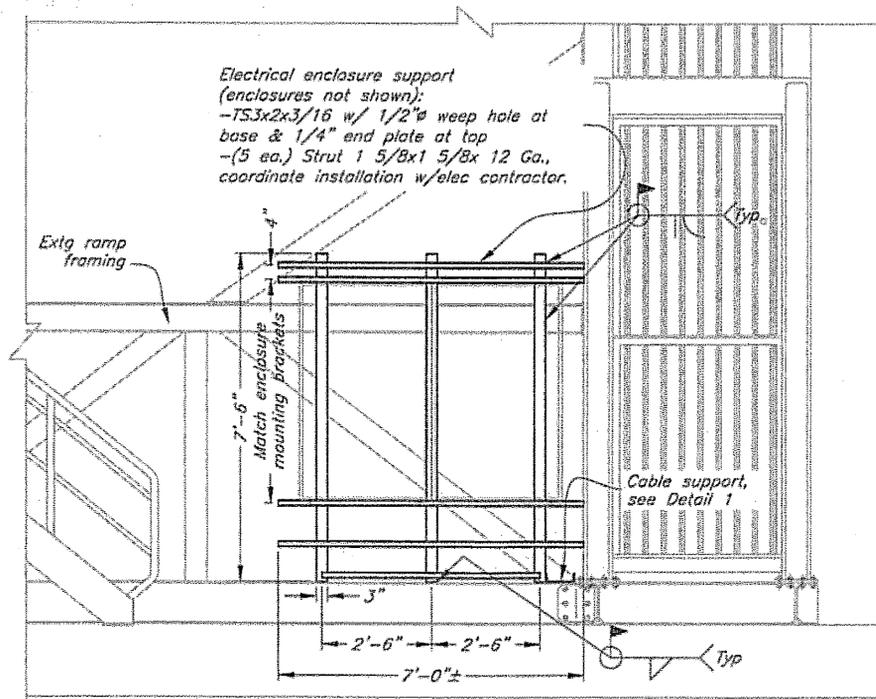
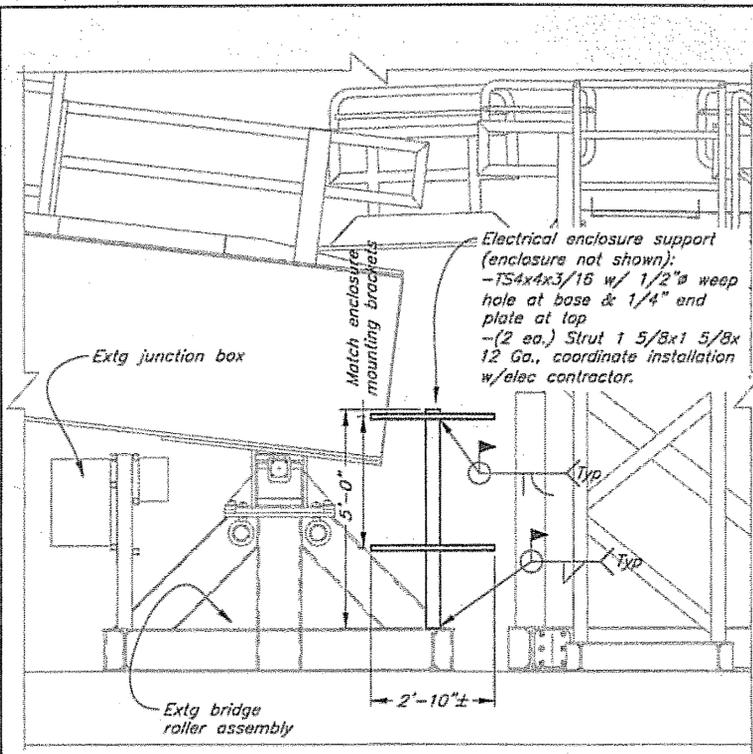
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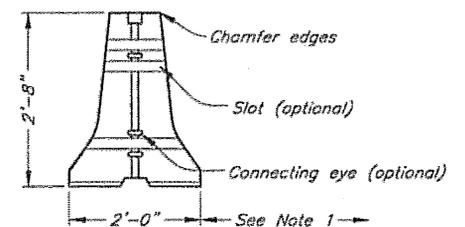
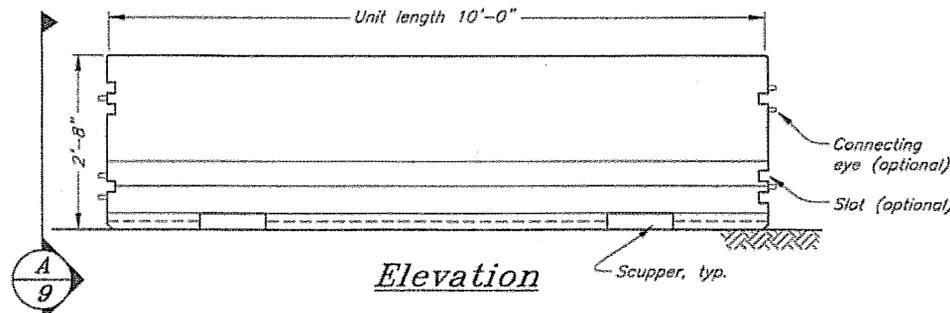
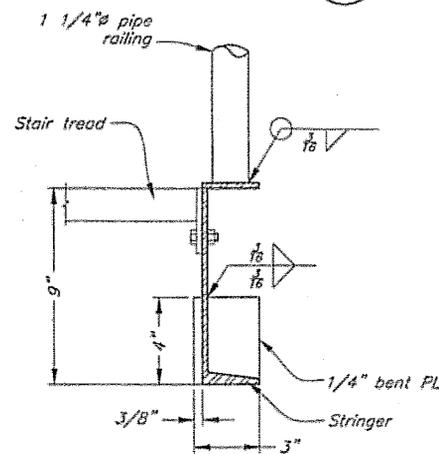
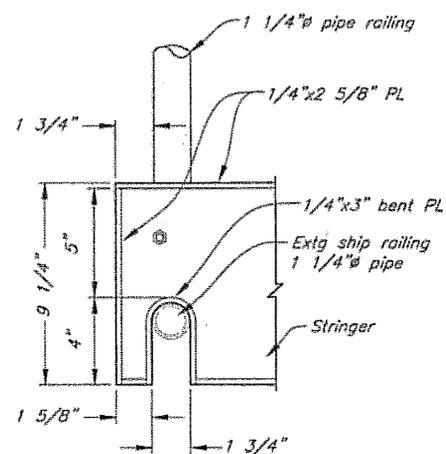
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 Proj. Eng. *[Signature]* Date 2-1-07



Detail 1
Cable Support

Elevation D
3

Section E
3

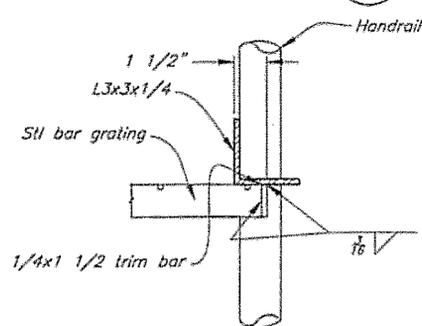
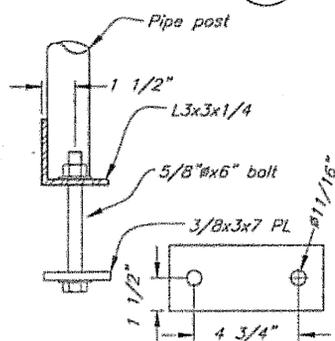


Elevation A
8

Section B
8

Elevation

End View A-A



A
9

Plan

Precast Concrete (Jersey) Barrier
A
E04

Furnish and install (1 ea.) barrier adjacent to utility transformer, as shown on Generator Bldg Plan View, Sheet E-04

Note:
1) Place barrier 3'-0" minimum from utility transformer enclosure.

Section C
8

Section D
8

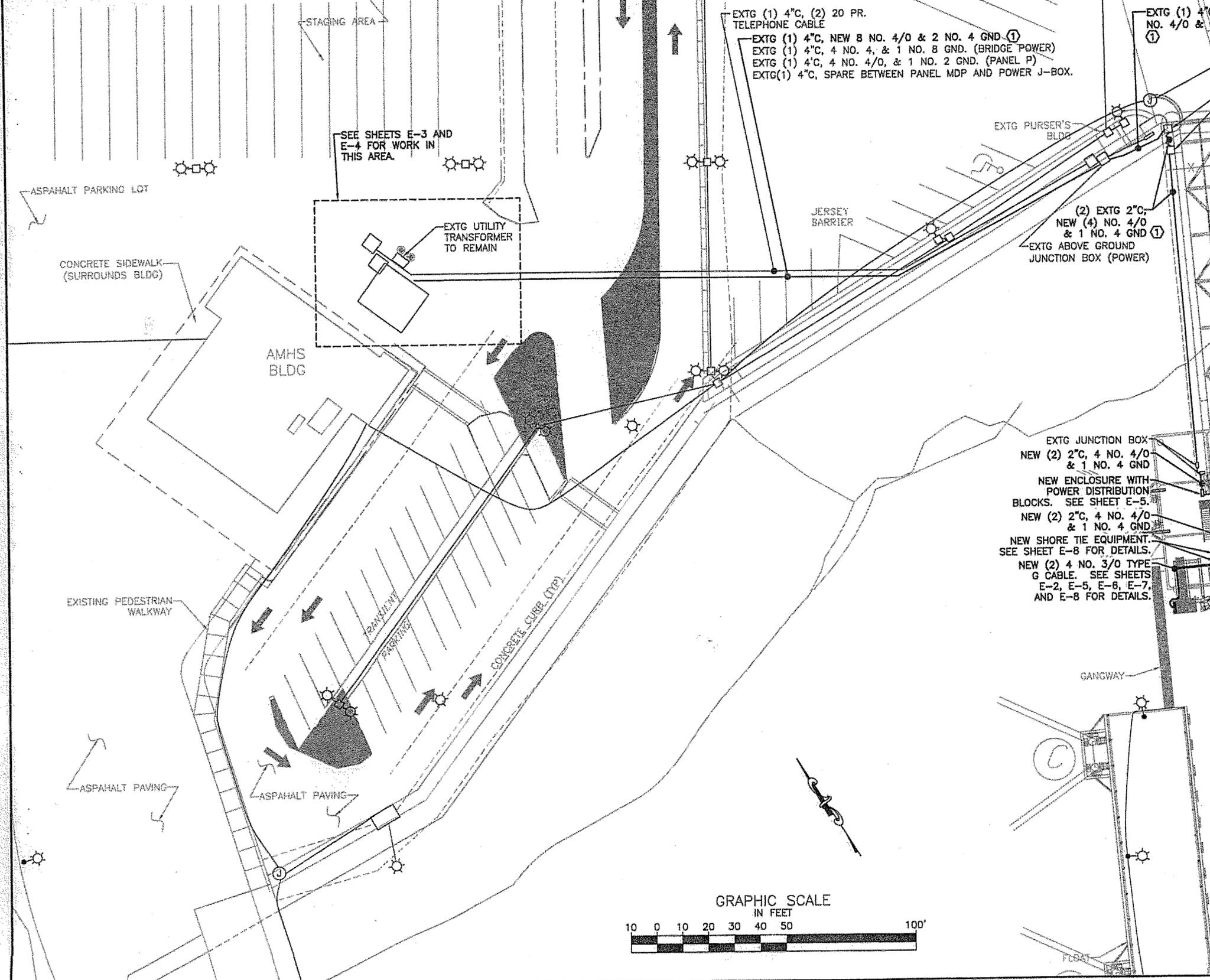
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CHECKED BY: B. Savikko	Electrical Enclosure Supports, Misc. Details				
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NOTES:

① EXISTING SPARE CONDUIT. PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT AS SHOWN. CONDUIT MAY OR MAY NOT HAVE A PULL ROPE. LABEL EACH END OF THE CONDUCTORS STATING WHERE THE CONDUCTOR IS FED FROM AND WHAT EQUIPMENT THE CONDUCTOR POWERS.



EXTG (1) 4"C, (2) 20 PR. TELEPHONE CABLE
 EXTG (1) 4"C, NEW 8 NO. 4/0 & 2 NO. 4 GND. ①
 EXTG (1) 4"C, 4 NO. 4, & 1 NO. 8 GND. (BRIDGE POWER)
 EXTG (1) 4"C, 4 NO. 4/0, & 1 NO. 2 GND. (PANEL P)
 EXTG(1) 4"C, SPARE BETWEEN PANEL MDP AND POWER J-BOX.

EXTG (1) 4"C, NEW 8 NO. 4/0 & 1 NO 4 GND ①

SEE SHEETS E-3 AND E-4 FOR WORK IN THIS AREA.

EXTG UTILITY TRANSFORMER TO REMAIN

EXTG PURSER'S BLDG
 (2) EXTG 2"C, NEW (4) NO. 4/0 & 1 NO. 4 GND ①
 EXTG ABOVE GROUND JUNCTION BOX (POWER)

EXTG JUNCTION BOX NEW (2) 2"C, 4 NO. 4/0 & 1 NO. 4 GND
 NEW ENCLOSURE WITH POWER DISTRIBUTION BLOCKS. SEE SHEET E-5.
 NEW (2) 2"C, 4 NO. 4/0 & 1 NO. 4 GND
 NEW SHORE TIE EQUIPMENT. SEE SHEET E-8 FOR DETAILS.
 NEW (2) 4 NO. 3/0 TYPE G CABLE. SEE SHEETS E-2, E-5, E-6, E-7, AND E-8 FOR DETAILS.

BERTH 3

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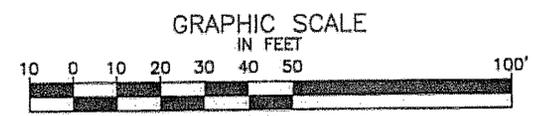
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**KETCHIKAN BERTH 3
 SHORE POWER MODIFICATIONS
 PROJECT NO. 67607**

SITE PLAN

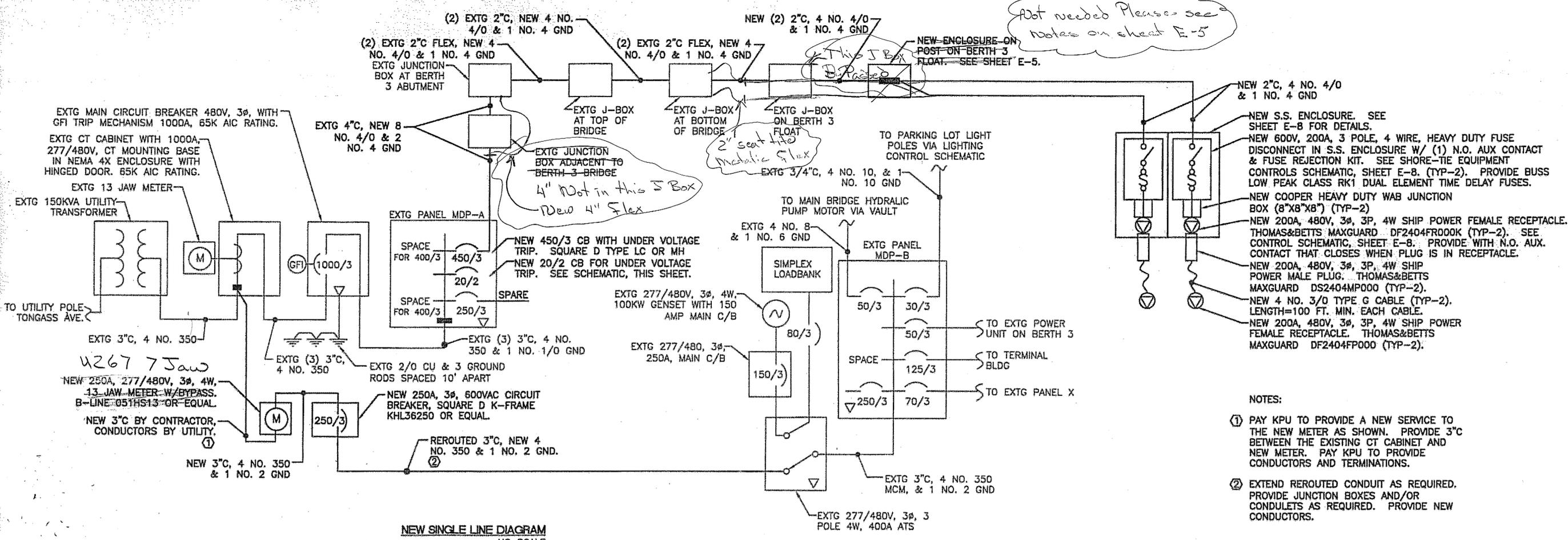


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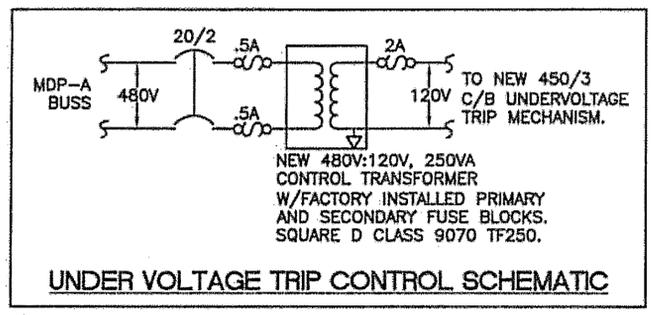
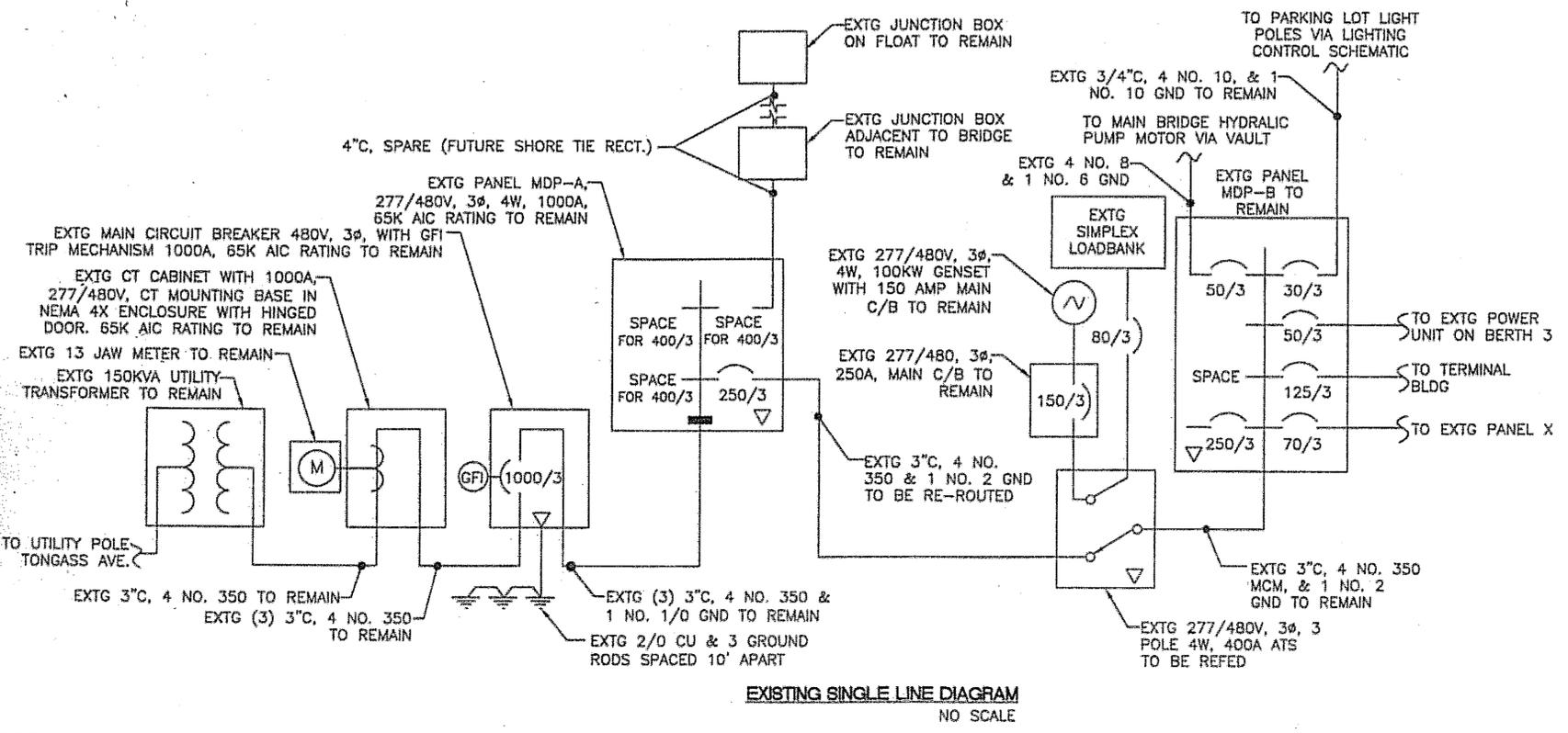
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
 Proj. Eng. *[Signature]* Date 9-1-07

CHANGES IN ORANGE (CLOUDED) MADE BY CONTRACTOR

Not needed Please see notes on sheet E-5



- NOTES:
1. PAY KPU TO PROVIDE A NEW SERVICE TO THE NEW METER AS SHOWN. PROVIDE 3" BETWEEN THE EXISTING CT CABINET AND NEW METER. PAY KPU TO PROVIDE CONDUCTORS AND TERMINATIONS.
 2. EXTEND REROUTED CONDUIT AS REQUIRED. PROVIDE JUNCTION BOXES AND/OR CONDULETS AS REQUIRED. PROVIDE NEW CONDUCTORS.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS SHOWN ON STRUCTURAL PLANS

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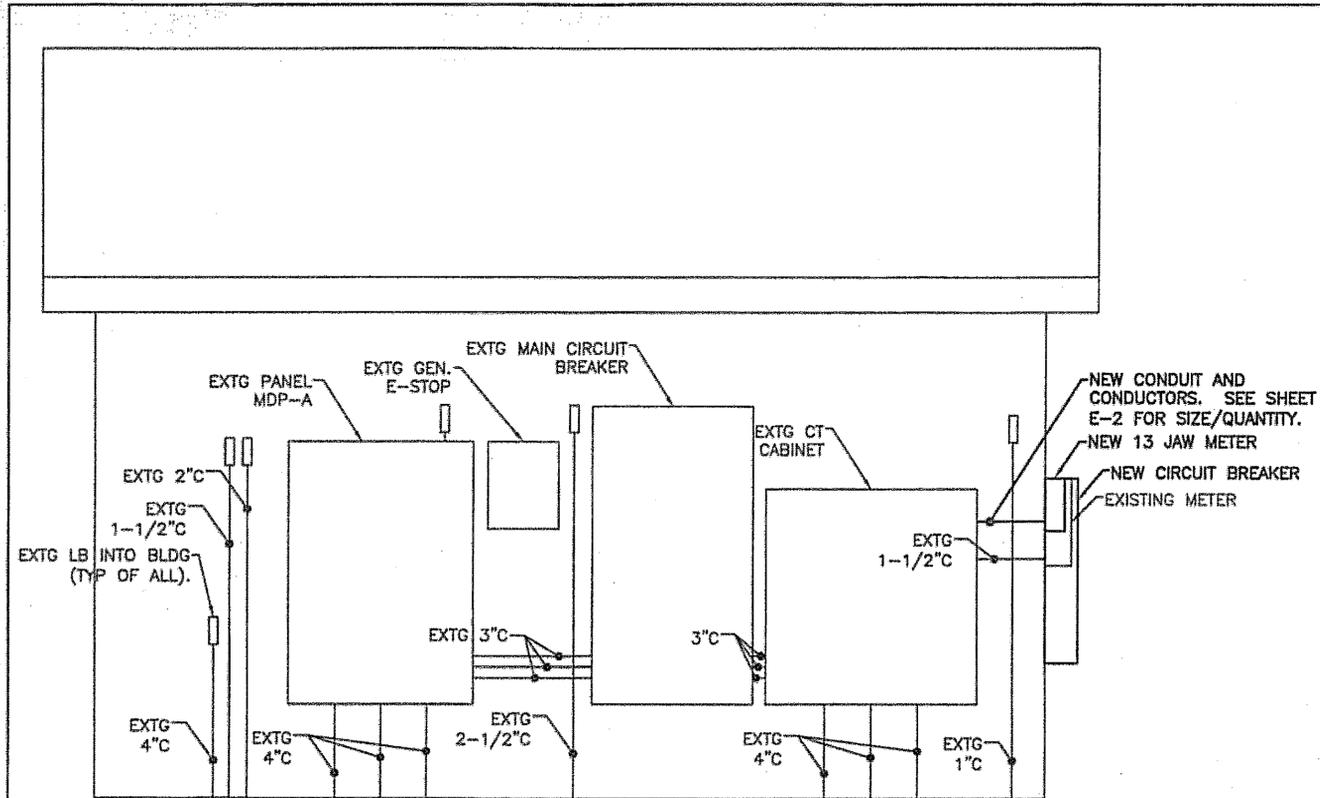
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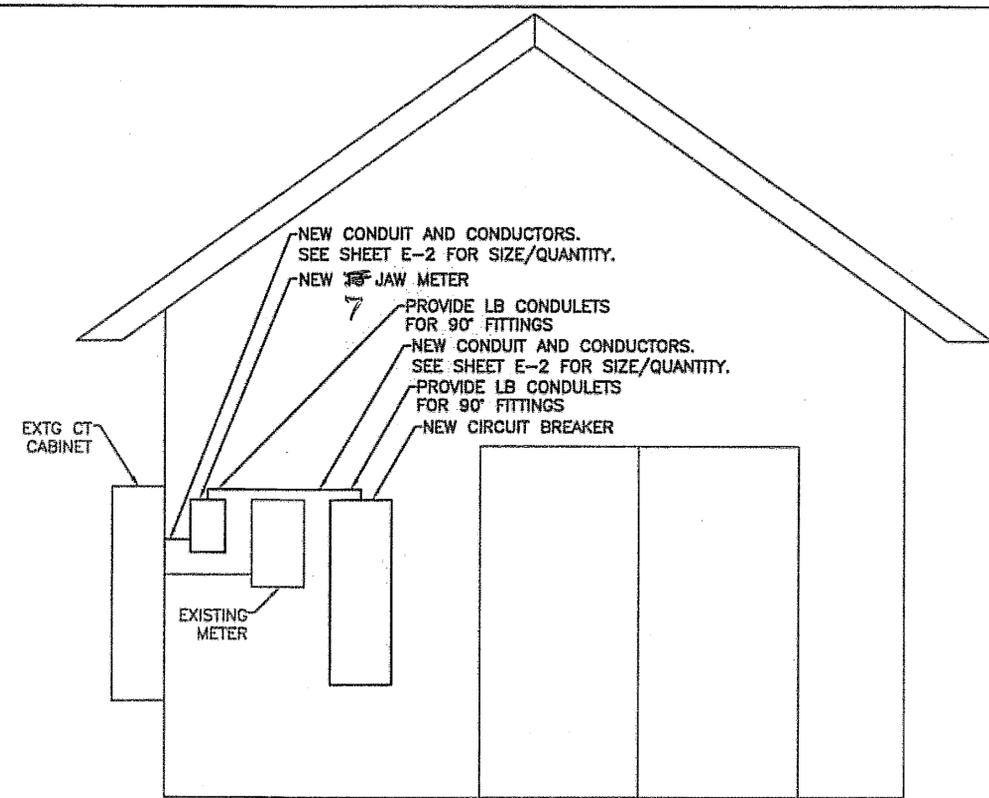
KETCHIKAN BERTH 3
SHORE POWER MODIFICATIONS
PROJECT NO. 67607

SINGLE LINE - NEW AND EXISTING

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67607	2005	E-02	08



GENERATOR BLDG WEST WALL - ELEVATION VIEW
NO SCALE



GENERATOR BLDG NORTH WALL - ELEVATION VIEW
NO SCALE

LEGEND

DESCRIPTION

- TYP TYPICAL
- S SINGLE POLE SWITCH
- ▽ GROUND BUS
- ⊕ JUNCTION BOX
- GFI GROUND FAULT INTERRUPTER
- SS STAINLESS STEEL
- UG UNDERGROUND
- GRS GALVANIZED RIGID STEEL
- BLDG BUILDING
- GND GROUND
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- REC RECEPTACLE
- W/ WITH
- AUX AUXILIARY
- EXTG EXISTING

CONTROL SCHEDULE LEGEND

- TRANSFORMER
- FUSE
- CONTACTOR
- OVERLOAD RELAY
- CIRCUIT BREAKER (AMPS/POLES)
- TERMINAL BLOCK CONTACT
- PUSH TO TEST INDICATING LIGHT, LETTER INDICATES COLOR.
- INDUSTRIAL CONTROL RELAY, NUMBER INDICATES RELAY NUMBER.
- PUSHBUTTON
- NORMALLY OPEN CONTACT, NUMBER INDICATES RELAY NUMBER.
- NORMALLY CLOSED CONTACT, NUMBER INDICATES RELAY NUMBER.
- DISCONNECT
- OVERLOAD PROTECTION

CONDUIT WITH CONDUCTORS.
SEE PLANS FOR SIZE AND
QUANTITY.

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN ON STRUCTURAL PLANS

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KETCHIKAN BERTH 3
SHORE POWER MODIFICATIONS
PROJECT NO. 67607
GENERATOR
BUILDING ELEVATION
AND LEGEND

CHECKED BY: MGH

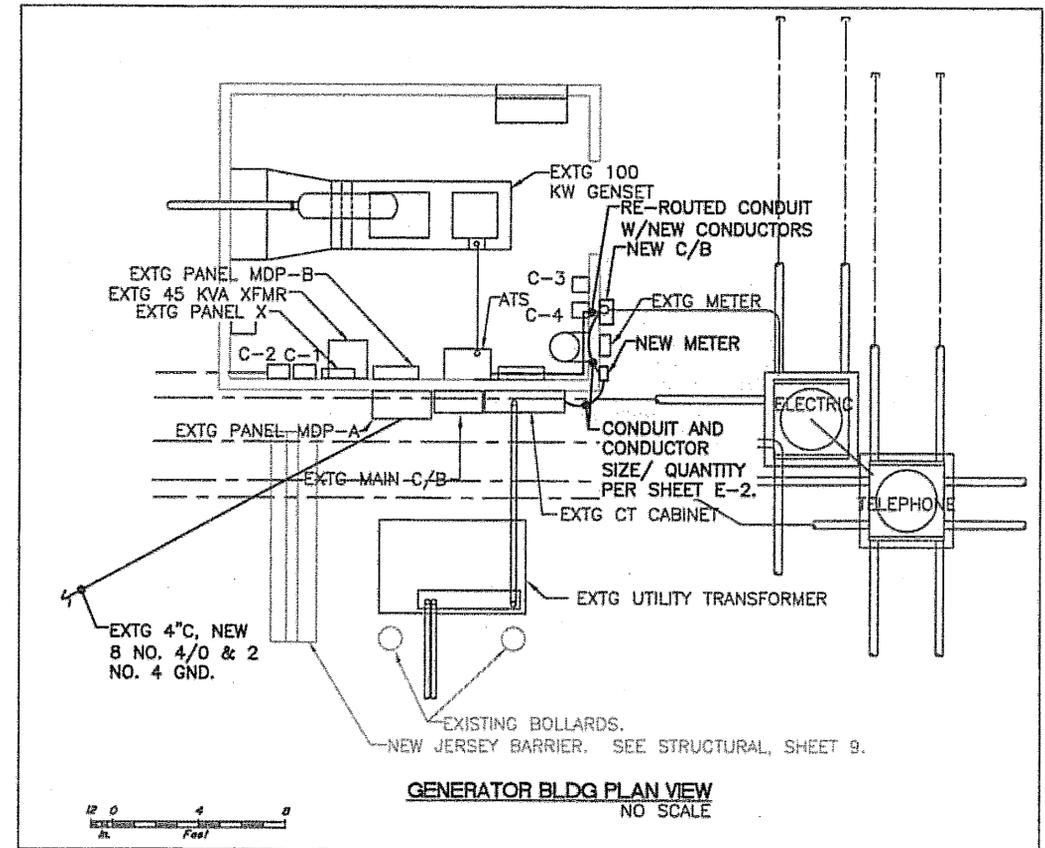
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PATH:
PLOT:

NO.		REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	NO.	DESCRIPTION				
				67607	2005	E-03	08

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Proj. Eng. *NKG* Date 04-07

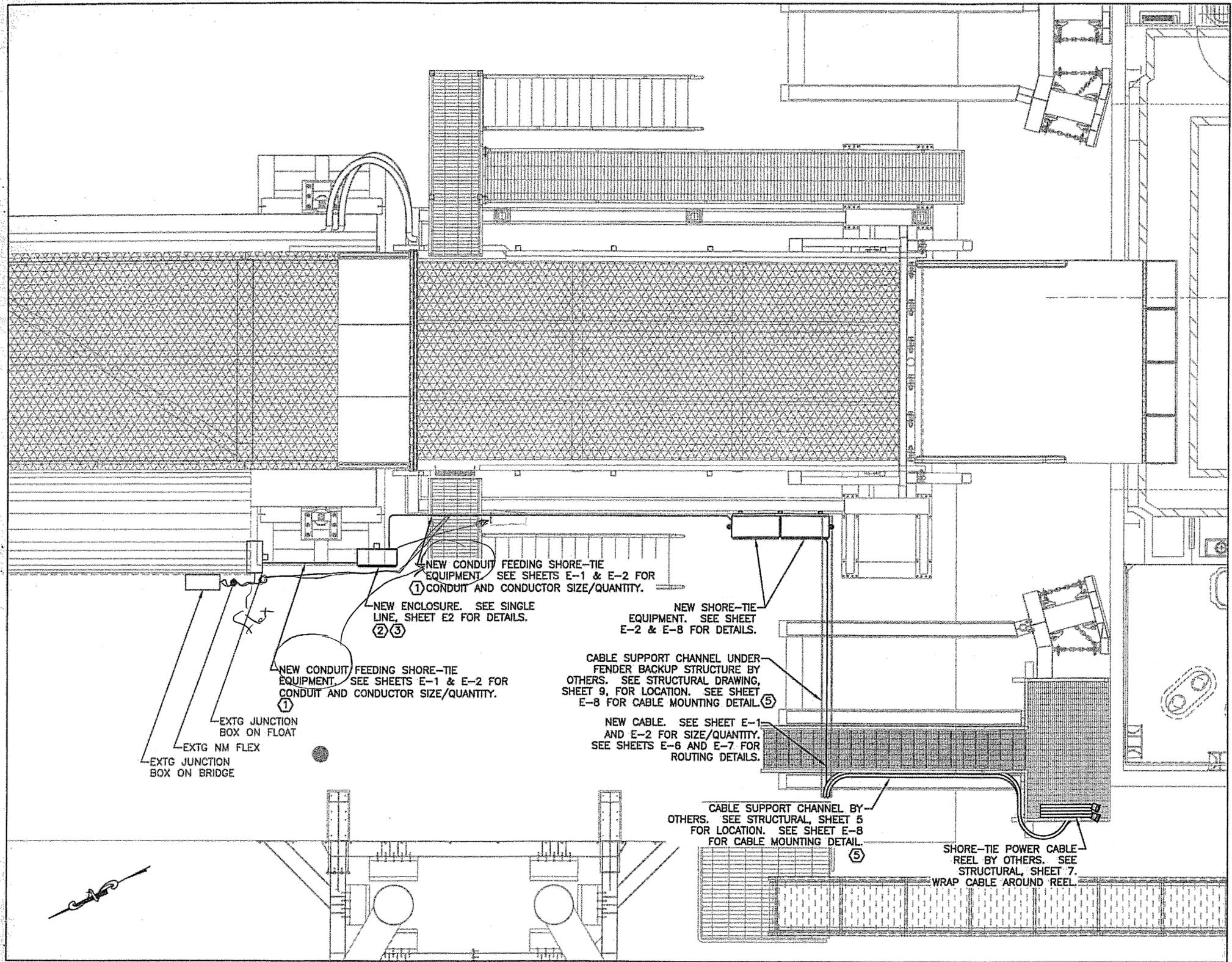


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DESIGNED BY: MGH		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN BERTH 3 SHORE POWER MODIFICATIONS PROJECT NO. 67607				
						
CHECKED BY: MGH		GENERATOR BUILDING FLOOR PLAN				
DRAWN BY: NKG						
PATH:						
PLOT:						
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NL	DATE	DESCRIPTION	67607	2005	E-04	08

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Proj. Eng.  Date 9-1-07



NOTES:

- ① PROVIDE CONDUIT AND WIRING ON FLOAT AS REQUIRED TO POWER SHORE TIE EQUIPMENT. ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO MARINE STRUCTURE. ROUTE AS REQUIRED. SUPPORT ON UNISTRUT BOLTED TO MARINE STRUCTURE.
- ② PROVIDE NEW NEMA 4X S.S. ENCLOSURE, AND MOUNT TO UNISTRUT MOUNTED TO POST ON BRIDGE ROLLER ASSEMBLY. SEE STRUCTURAL DRAWINGS, SHEET 9, FOR POST AND UNISTRUT LOCATION. PROVIDE UHMW WASHER BETWEEN PANEL & UNISTRUT. COORDINATE UNISTRUT DIMENSIONS DURING STRUCTURAL FABRICATION. ENCLOSURE SHALL BE 36"H X 30"W X 12"D WITH POWER DISTRIBUTION BLOCKS (4 POLES) WITH PLASTIC COVERS. HOFFMAN SS TYPE 4X WALL-MOUNT ENCLOSURE WITH SS MOUNTING PANEL. PROVIDE WITH A 1/2" DRAIN HOLE. POWER DISTRIBUTION BLOCKS SQUARE D CLASS 9080 TYPE LB. TERMINATE ALL CONDUCTORS IN ALL CABLES ON BLOCKS. FEED SHORE TIE EQUIPMENT ON FLOAT FROM POWER DISTRIBUTION BLOCKS. SEE SHEETS E-1, E-2, E-6 & E-8 FOR DETAILS.
- ③ PROVIDE NEW CONDUIT FROM THE EXISTING JUNCTION BOX ON THE FLOAT TO THE NEW ENCLOSURE. SEE SHEET E-8 FOR MOUNTING INSTRUCTIONS. SEE STRUCTURAL DRAWINGS, SHEET 9, FOR POST LOCATIONS.
4. PROVIDE ANTI-OXIDATION ELECTRICAL COMPOUND ON ALL POWER DISTRIBUTION BLOCKS AND ON ALL TERMINATIONS ON ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE. (APPLICABLE TO ALL SHEETS).
- ⑤ ROUTE TYPE G SHORE TIE POWER CABLES FROM SHORE-TIE EQUIPMENT INTO CABLE SUPPORT CHANNEL, UP SIDE OF STAIRS IN CHANNEL, AND ONTO THE SHORE-TIE POWER CABLE REEL. SEE SHEET E-7 FOR ADDITIONAL CABLE ROUTING INFORMATION.

The cables don't start until the shore-tie equipment. All this T Box would have to make a needless splice

NEW CONDUIT FEEDING SHORE-TIE EQUIPMENT. SEE SHEETS E-1 & E-2 FOR CONDUIT AND CONDUCTOR SIZE/QUANTITY. ①

NEW ENCLOSURE. SEE SINGLE LINE, SHEET E2 FOR DETAILS. ② ③

NEW SHORE-TIE EQUIPMENT. SEE SHEET E-2 & E-8 FOR DETAILS.

CABLE SUPPORT CHANNEL UNDER FENDER BACKUP STRUCTURE BY OTHERS. SEE STRUCTURAL DRAWING, SHEET 9, FOR LOCATION. SEE SHEET E-8 FOR CABLE MOUNTING DETAIL. ⑤

NEW CABLE. SEE SHEET E-1 AND E-2 FOR SIZE/QUANTITY. SEE SHEETS E-6 AND E-7 FOR ROUTING DETAILS.

CABLE SUPPORT CHANNEL BY OTHERS. SEE STRUCTURAL, SHEET 5 FOR LOCATION. SEE SHEET E-8 FOR CABLE MOUNTING DETAIL. ⑤

SHORE-TIE POWER CABLE REEL BY OTHERS. SEE STRUCTURAL, SHEET 7. WRAP CABLE AROUND REEL. ⑤

NEW CONDUIT FEEDING SHORE-TIE EQUIPMENT. SEE SHEETS E-1 & E-2 FOR CONDUIT AND CONDUCTOR SIZE/QUANTITY. ①

EXTG JUNCTION BOX ON FLOAT

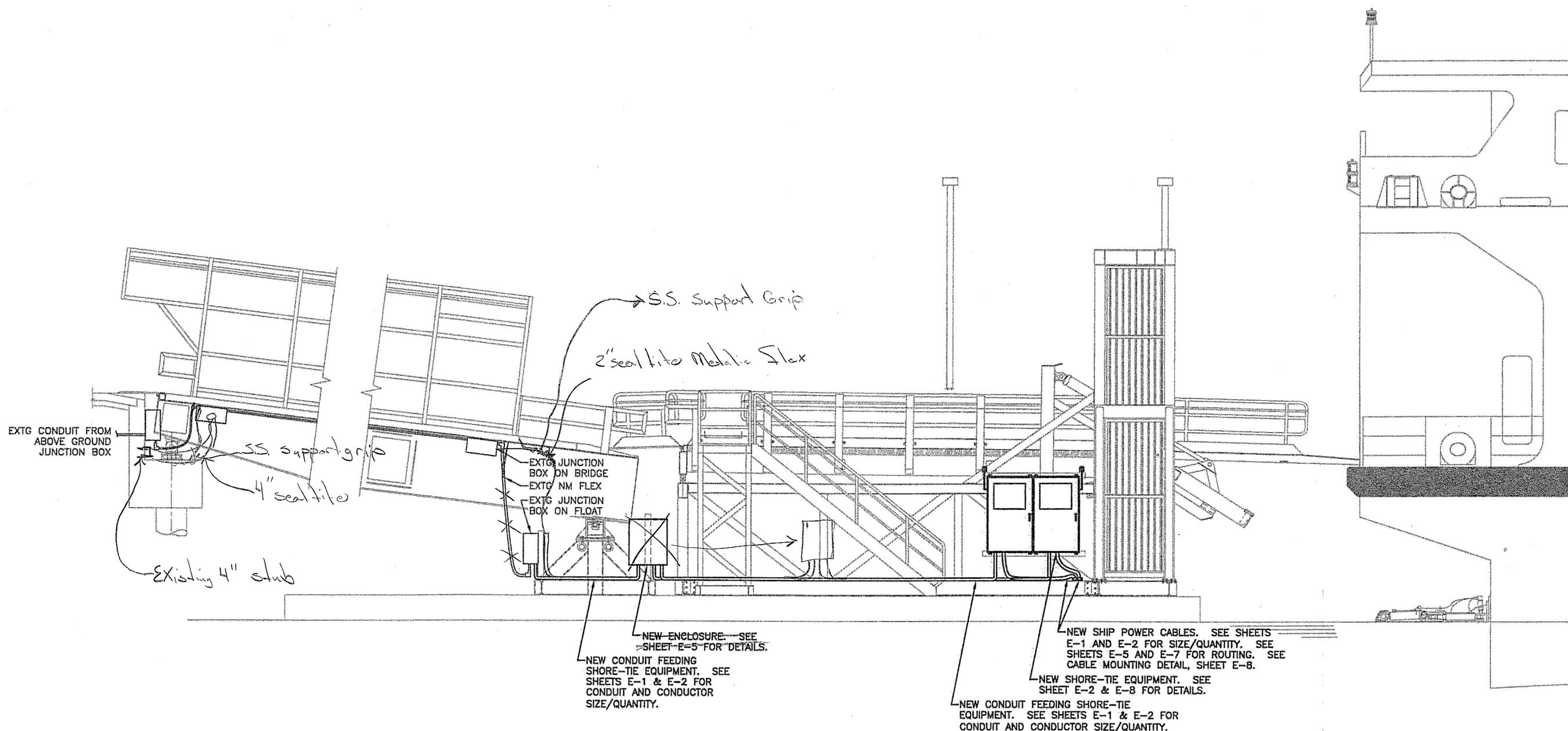
EXTG NM FLEX

EXTG JUNCTION BOX ON BRIDGE

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	KETCHIKAN BERTH 3 SHORE POWER MODIFICATIONS PROJECT NO. 67607
	BERTH 3 FLOAT - PLAN VIEW
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DRAWN BY: NKG	
PATH:	
PLDT:	

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EXTG CONDUIT FROM ABOVE GROUND JUNCTION BOX

SS support grip
4" seal tile

Existing 4" stub

EXTG JUNCTION BOX ON BRIDGE
EXTG NM FLEX
EXTG JUNCTION BOX ON FLOAT

SS. Support Grip
2" seal tile Metallic Flex

NEW ENCLOSURE - SEE SHEET E-5 FOR DETAILS.
NEW CONDUIT FEEDING SHORE-TIE EQUIPMENT. SEE SHEETS E-1 & E-2 FOR CONDUIT AND CONDUCTOR SIZE/QUANTITY.

NEW SHIP POWER CABLES. SEE SHEETS E-1 AND E-2 FOR SIZE/QUANTITY. SEE SHEETS E-5 AND E-7 FOR ROUTING. SEE CABLE MOUNTING DETAIL, SHEET E-8.
NEW SHORE-TIE EQUIPMENT. SEE SHEET E-2 & E-8 FOR DETAILS.
NEW CONDUIT FEEDING SHORE-TIE EQUIPMENT. SEE SHEETS E-1 & E-2 FOR CONDUIT AND CONDUCTOR SIZE/QUANTITY.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS SHOWN ON STRUCTURAL PLANS



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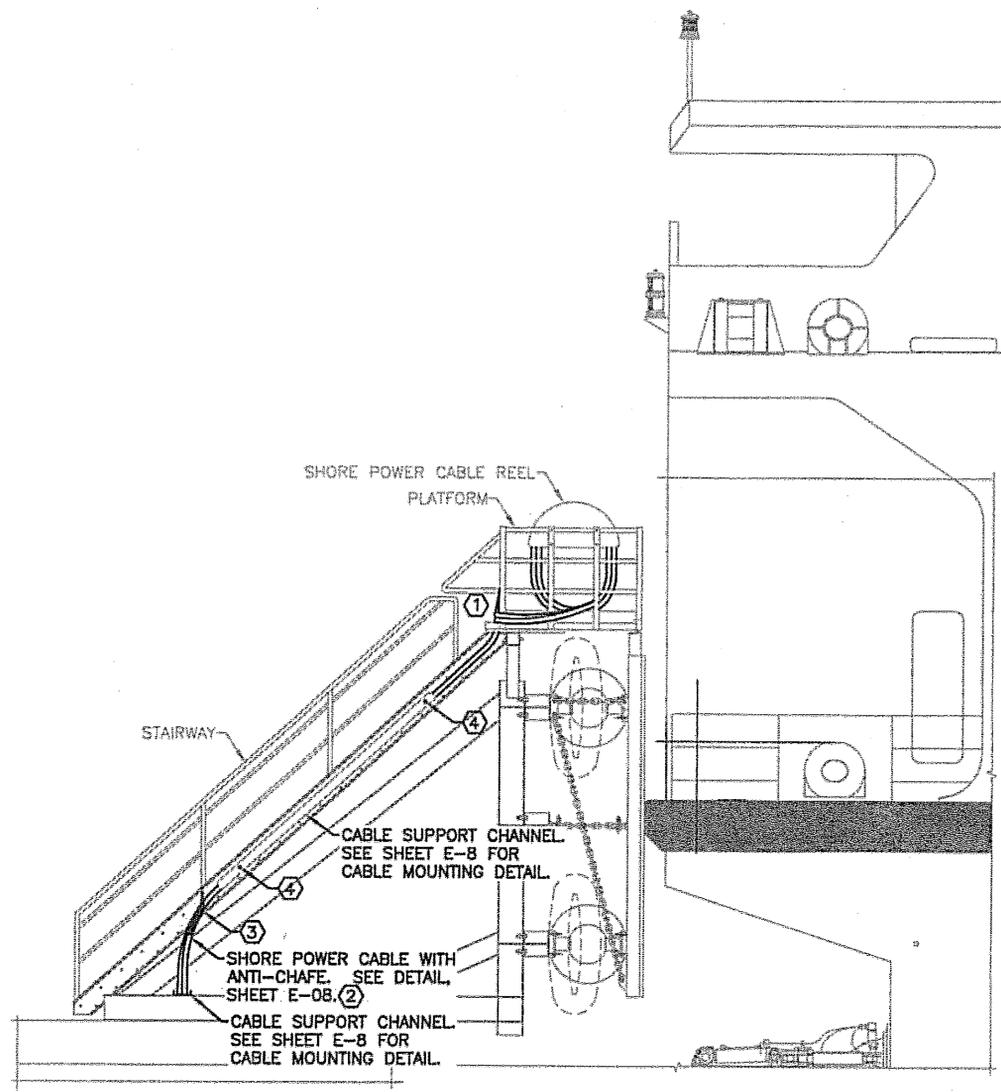
KETCHIKAN BERTH 3
SHORE POWER MODIFICATIONS
PROJECT NO. 67607

**BERTH 3 - WEST
ELEVATION**

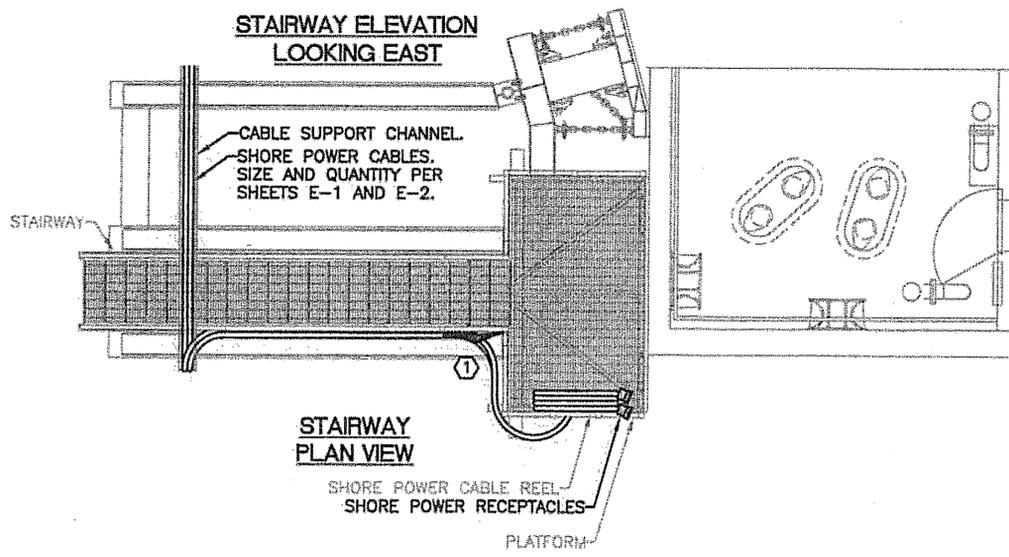
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			67607	2005	E-06	08

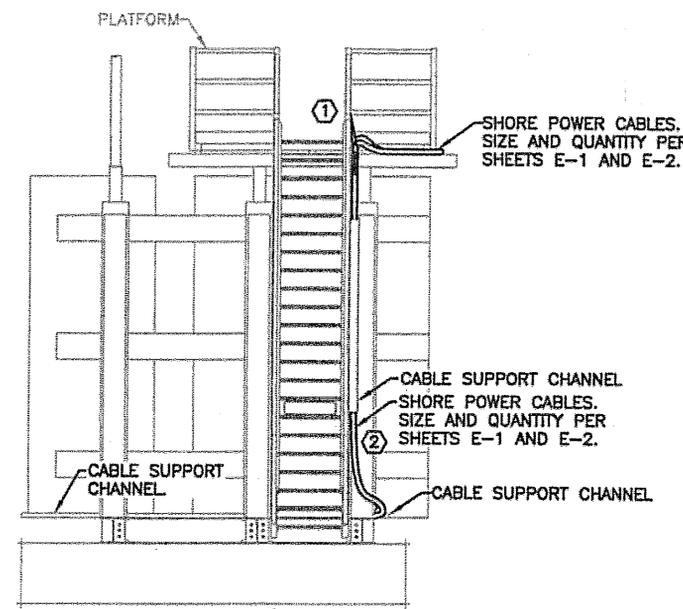
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng. *[Signature]* Date 2-7



STAIRWAY ELEVATION
LOOKING EAST



STAIRWAY
PLAN VIEW



STAIRWAY ELEVATION
LOOKING SOUTH

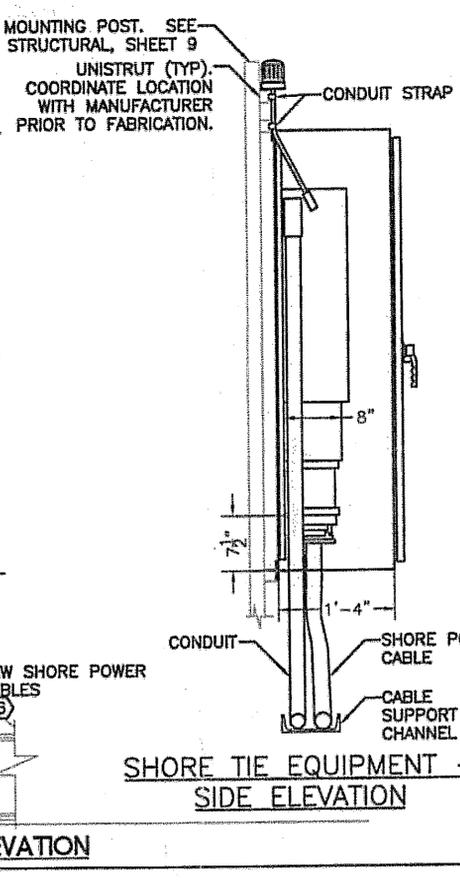
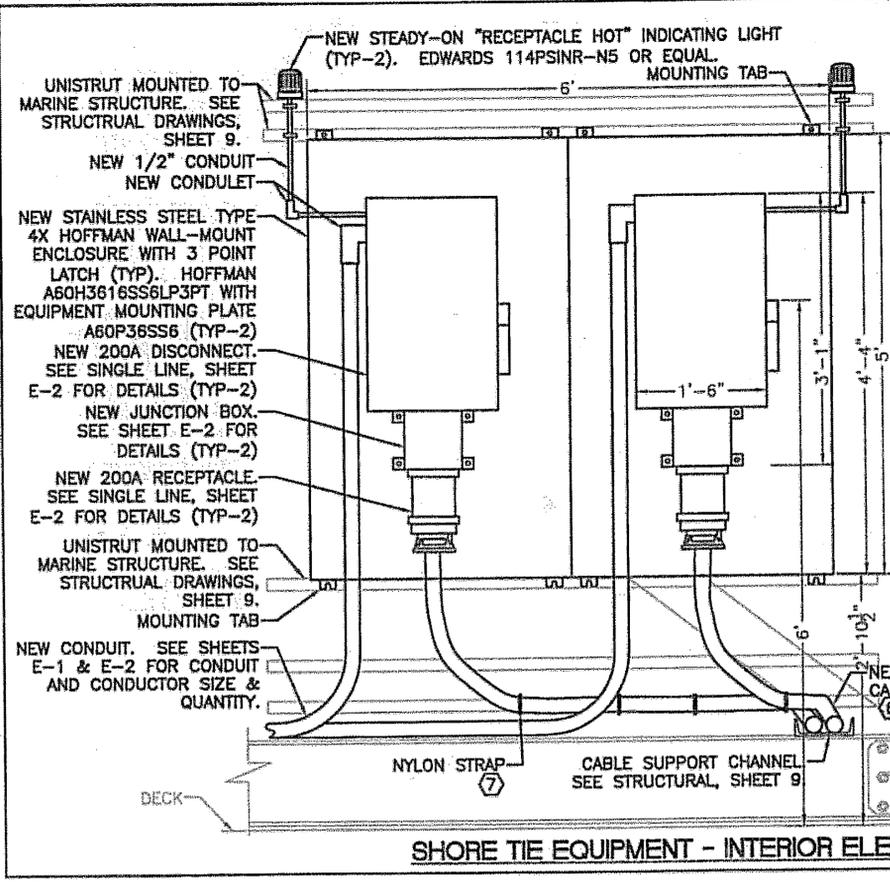
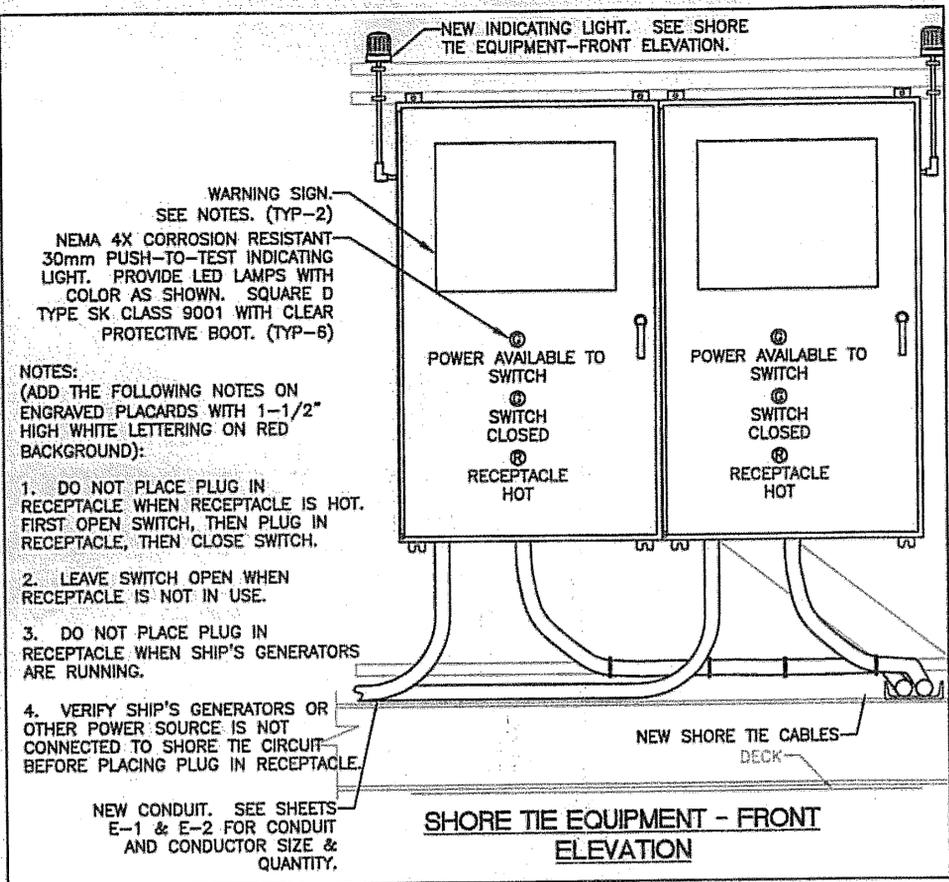
NOTES:

- ① PROVIDE A STAINLESS STEEL CABLE GRIP WHERE CABLE LEAVES THE SUPPORT CHANNEL ALONG THE TOP OF THE STAIRS. DRILL A HOLE IN THE RAIL POST, AND PROVIDE A STAINLESS STEEL EYE-BOLT IN THE RAIL POST. COORDINATE EYE-BOLT INSTALLATION WITH ENGINEER. SUPPORT CABLE WITH CABLE GRIP SECURED TO EYE-BOLT IN RAIL POST.
- ② PROVIDE NM FLEX CONDUIT OVER EACH SHORE POWER CABLE FROM THE POINT WHERE THE CABLE LEAVES THE CABLE SUPPORT CHANNEL ON THE FLOAT UNTIL THE CABLE IS IN THE CABLE SUPPORT CHANNEL ALONG THE STAIRWAY. ROUTE NM FLEX A MIN. OF 12" INTO CABLE SUPPORT CHANNELS ON BOTH ENDS. THE PURPOSE OF THE CONDUIT IS ACT AS AN ANTI-CHAFFING MATERIAL BETWEEN THE CABLE AND HARD EDGES OF THE MARINE STRUCTURES. MOUNT CONDUIT AS NECESSARY TO PROTECT THE POWER CABLE FROM HARD EDGES INCLUDING THE ENDS OF THE CABLE SUPPORT CHANNELS. SEE SHEET E-08 FOR CABLE MOUNTING DETAIL AND CABLE CHAFE GUARD DETAIL.
- ③ NEW CABLE GRIP OVER CABLE AND CHAFE PROTECTION. SEE SHEET E-8 FOR CHAFE DETAIL. PROVIDE A STAINLESS STEEL CABLE GRIP WHERE CABLE LEAVES THE CABLE SUPPORT CHANNEL ON THE MARINE STRUCTURE. DRILL A HOLE IN THE STAIRWAY STRINGER, AND PROVIDE A STAINLESS STEEL EYE-BOLT IN THE STAIRWAY STRINGER. COORDINATE EYE-BOLT INSTALLATION WITH ENGINEER. SUPPORT CABLE WITH CABLE GRIP SECURED TO EYE-BOLT IN RAIL POST.
- ④ PROVIDE A CABLE GRIP ON EACH CABLE AT THIS LOCATION. SECURE TO MARINE STRUCTURE PER CABLE MOUNTING DETAIL, SHEET E-08.

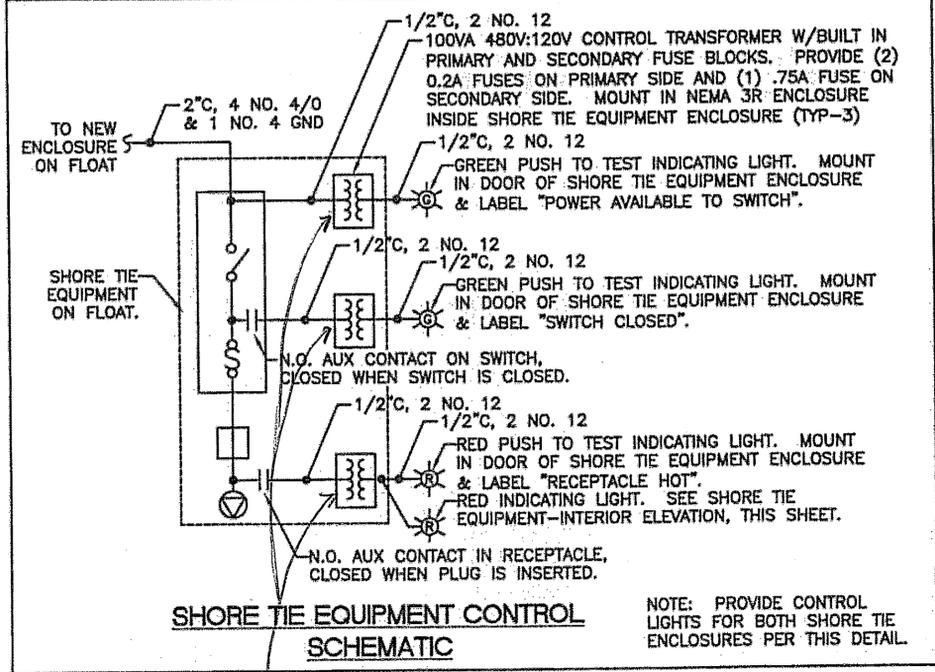
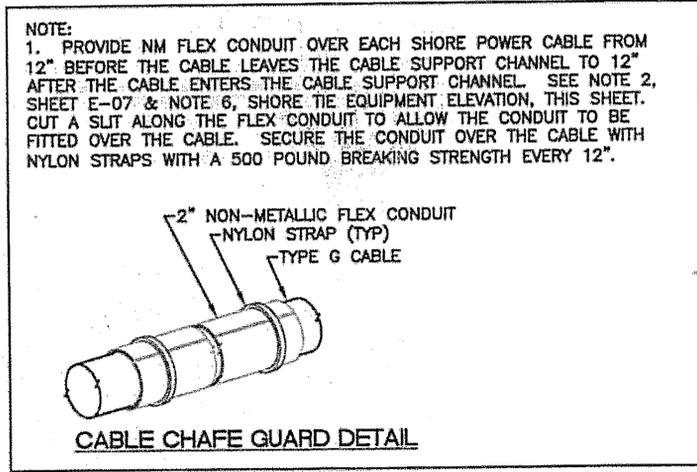
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	KETCHIKAN BERTH 3 SHORE POWER MODIFICATIONS PROJECT NO. 67607 BERTH 3 - NEW STAIRWAY ELEVATIONS AND PLAN VIEW										
	CHECKED BY: MGH										
DRAWN BY: NKG											
PATH:											
PLOT:											
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NO.	DATE	REVISIONS DESCRIPTION									
		67607	2005	E-07	08						

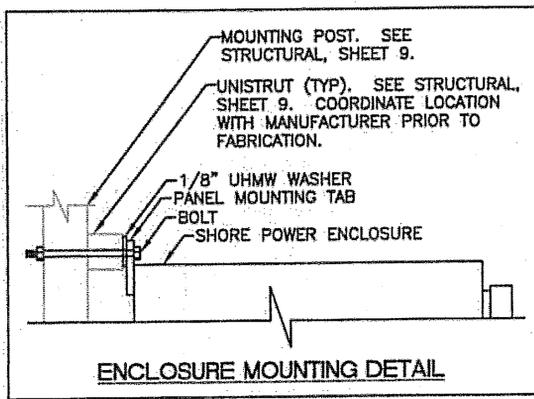
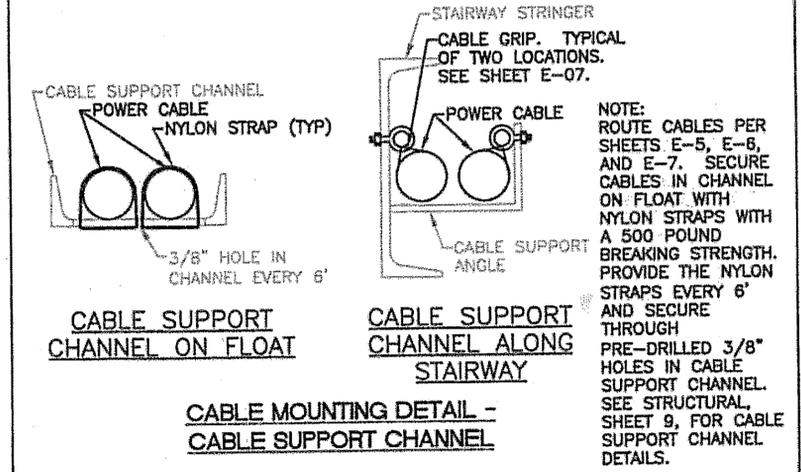
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng.  Date 1-07



- NOTES:**
- ALL DIMENSIONS SHOWN ARE BASED UPON THE EQUIPMENT THAT IS SHOWN. IF OTHER EQUIPMENT IS SUBSTITUTED, COORDINATE THE EQUIPMENT SIZES, MOUNTING DIMENSIONS, MOUNTING REQUIREMENTS, AND LOCATIONS WITH THE GENERAL CONTRACTOR.
 - PROVIDE 1/8" THICK UHMW BETWEEN THE DISCONNECT AND JUNCTION BOX.
 - MOUNT SHORE TIE ENCLOSURES TO (2) HORIZONTAL SQUARE POSTS ON MARINE STRUCTURE. SECURE USING THE ENCLOSURES' MOUNTING TABS. SEE STRUCTURAL DRAWINGS, SHEET 9 FOR POST LOCATION. PROVIDE A 1/8" THICK UHMW STRIP BETWEEN THE POSTS AND THE PANELS. SEE DETAIL, THIS SHEET.
 - CUT A 14"D X 24"W RECTANGULAR SHAPED HOLE WITH ROUNDED CORNERS IN THE BOTTOM OF THE ENCLOSURES, AND ROUND THE EDGES OF THE HOLE. PROVIDE A RUBBER GROMMET OVER THE CUT TO PREVENT CABLE CHAFFING AGAINST THE EDGES.
 - ROUTE THE CONDUIT FEEDING THE DISCONNECT UP THROUGH THE BOTTOM OF THE ENCLOSURE, AGAINST THE BACK OF THE ENCLOSURE.
 - PROVIDE CABLE CHAFE GUARD WHERE CABLE MAKES 90° TURN. SEE CABLE CHAFE GUARD DETAIL, THIS SHEET.
 - SECURE CABLE TO UNISTRUT WITH NYLON STRAPS WITH A 500 POUND BREAKING STRENGTH EVERY 12".



one 300 VA control transformer in 3R enclosure



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KETCHIKAN BERTH 3
 SHORE POWER MODIFICATIONS
 PROJECT NO. 67607
SHORE TIE EQUIPMENT ELEVATIONS & CONTROL SCHEMATICS

Mark G. Morris
 Feb 08, 2006
 No. EE 8613
 REGISTERED PROFESSIONAL ENGINEER

REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE				
		67607	2005	E-08	08

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Proj. Eng. *[Signature]* Date *9-10-07*