

UNALASKA CITY COUNCIL

Unalaska, Alaska

Special Meeting
Thursday, December 28, 2017
12:00 p.m. (noon)

Unalaska City Hall
Council Chambers
43 Raven Way

AGENDA

1. Call to order
2. Roll call
3. Pledge of allegiance
4. Reports
 - a. City Manager
5. Adoption of agenda
6. Public testimony on agenda items
7. Regular agenda
 - a. New Business
 - i. RESOLUTION 2017-68: A Resolution of the Unalaska City Council authorizing the City Manager to amend Turnagain Marine's Contract for the Unalaska Marine Center Expansion and Replacement Project to include post holes for the Homeland Security Fencing Project in an amount not to exceed \$194,660.Adjournment
8. Adjournment

CITY OF UNALASKA
UNALASKA, ALASKA

RESOLUTION 2017-68

A RESOLUTION OF THE UNALASKA CITY COUNCIL AUTHORIZING THE CITY MANAGER TO AMEND TURNAGAIN MARINE'S CONTRACT FOR THE UNALASKA MARINE CENTER EXPANSION AND REPLACEMENT PROJECT TO INCLUDE POST HOLES FOR THE HOMELAND SECURITY FENCING PROJECT IN AN AMOUNT NOT TO EXCEED \$194,660.

WHEREAS, the Unalaska City Council accepted a grant from Homeland Security to build a security fence at the Unalaska Marine Center; and

WHEREAS, the Homeland Security grant requirements stipulate that the Unalaska Marine Center Security Fencing Project be completed by September 30, 2018; and

WHEREAS, Unalaska Marine Center Positions 3 and 4 are presently under construction; and

WHEREAS, it is critical to coordinate the Unalaska Marine Center Expansion and Replacement Project and the Unalaska Marine Center Security Fencing Project to complete both projects on time; and

WHEREAS, the installation of the post holes would create an efficiency for both projects; and

WHEREAS, the post holes could be installed independently from the procurement and installation of the security fencing; and

WHEREAS, total cost of the Unalaska Marine Center Security Fencing Project exceeds the amount of the Homeland Security Grant; and

WHEREAS, the project costs paid for with the Homeland Security Grant must meet federal grant requirements; and

WHEREAS, the City of Unalaska solicited a quote from Turnagain Marine to install the post hole foundations as an amendment to their contract for the Unalaska Marine Center Expansion and Replacement Project; and

WHEREAS, Turnagain Marine submitted a fair and reasonable rate for the installation of the post hole foundations.

NOW, THEREFORE, BE IT RESOLVED that the Unalaska City Council authorizes the City Manager to amend Turnagain Marine's contract for the Unalaska Marine Center Expansion and Replacement Project to include foundations for the post holes in an amount not to exceed \$194,660.

PASSED AND ADOPTED by a duly constituted quorum of the Unalaska City Council on December 28, 2017.

Frank Kelty
Mayor

ATTEST:

Marjie Veeder
City Clerk

MEMORANDUM TO COUNCIL

TO: Mayor and City Council
FROM: Tom Cohenour, Public Works Director
THROUGH: Erin Reinders, Acting City Manager
DATE: December 28, 2017
RE: RESOLUTION 2017-68: A Resolution of the Unalaska City Council authorizing the City Manager to amend Turnagain Marine's Contract for the Unalaska Marine Center Expansion and Replacement Project to include post holes for the Homeland Security Fencing Project in an amount not to exceed \$194,660.

SUMMARY: Resolution 2017-68 allows for an amendment to Turnagain Marine's existing contract for construction services at the Unalaska Marine Center (UMC) to include post hole foundations for the Security Fencing Project. Funding for the Security Fencing Project was awarded under a Homeland Security Grant. The Homeland Security Grant has a deadline for completion of September 30, 2018. By amending Turnagain Marine's contract to include these foundations, the Homeland Security Grant deadline can be met without loss of funding and without disruption of existing work for the UMC Expansion Project. The contract amendment is not to exceed \$194,660. Staff recommends approval.

PREVIOUS COUNCIL ACTION: Council approved Budget Amendment Ordinance 2016-18 accepting \$325,000 from the Department of Homeland Security for construction of a security fence at the UMC. Council reviewed various options for the fencing and associated post holes foundations at their December 12, 2017 work session.

BACKGROUND: The City of Unalaska received a \$325,000 Homeland Security Grant to install an 8-foot high security fence at the UMC for positions 1-7. The grant money is to be fully spent and project completed by September 30, 2018. Coordinating the Homeland Security Fencing Project with the UMC Expansion and Replacement Project is critical in completing the fencing on time and fully utilizing the Homeland Security Grant.

The design for the fencing project is complete, and includes gate and access points for traffic. However, the installation of the fence is on hold in order to maintain the integrity of the UMC Expansion and Replacement Project. Much of the fencing area is under construction, and is controlled by the existing contract with Turnagain Marine for the UMC Expansion and Replacement Project. The UMC project construction is expected to be continuing throughout the required timeline for the fencing project.

DISCUSSION: This resolution amends Turnagain Marine's contract to include establishing post holes foundations within the proper grade and location prior to surfacing the UMC project. The fencing can then be installed without disrupting UMC construction or demolishing and reconstructing the new surfacing to accommodate the post holes in the future. The City can then put the fencing project itself out to bid and still meet the deadline for the grant expenditures.

This approach has multiple benefits to both projects including efficient installation of both the fence and the surfacing. We will be able to meet the deadlines for installation and grant expenditures. Furthermore, the procurement and installation of the fence will meet the Federal procurement and contractor required qualifications.

Funding for the post hole foundations is not specifically budgeted for in the UMC Expansion and Replacement Project, however, the project's untapped budgeted contingency can cover this additional expense. The cost proposed by Turnagain Marine is \$194,660 and the contingency in the UMC Project is \$2,400,000. Staff does not believe that this impacts the financial requirement from the City for the fencing and staff believes that the grant funds will be fully utilized. Staff recommends that Council approve this amendment. The bid package for the remainder of the fencing project is ready for publication upon approval.

ALTERNATIVES:

- 1) Council could support Resolution 2017-68; or
- 2) Council could choose not to support Resolution 2017-68; or
- 3) Council could reduce the scope of the contract for the post holes.

FINANCIAL IMPLICATIONS: Funding for the contract amendment in the amount of \$194,660 would come from the UMC Expansion and Replacement Project's contingency which totals \$2,400,000.

LEGAL: Not applicable.

STAFF RECOMMENDATION: Staff recommends approving Resolution 2017-68.

PROPOSED MOTION: "I move to approve Resolution 2017-68."

CITY MANAGER'S COMMENTS: Coordination of the UMC Expansion and Replacement Project and the UMC Security Fencing Project has multiple benefits for the City of Unalaska and the Port of Dutch Harbor. This contract amendment allows us to do just that. I support Resolution 2017-68.

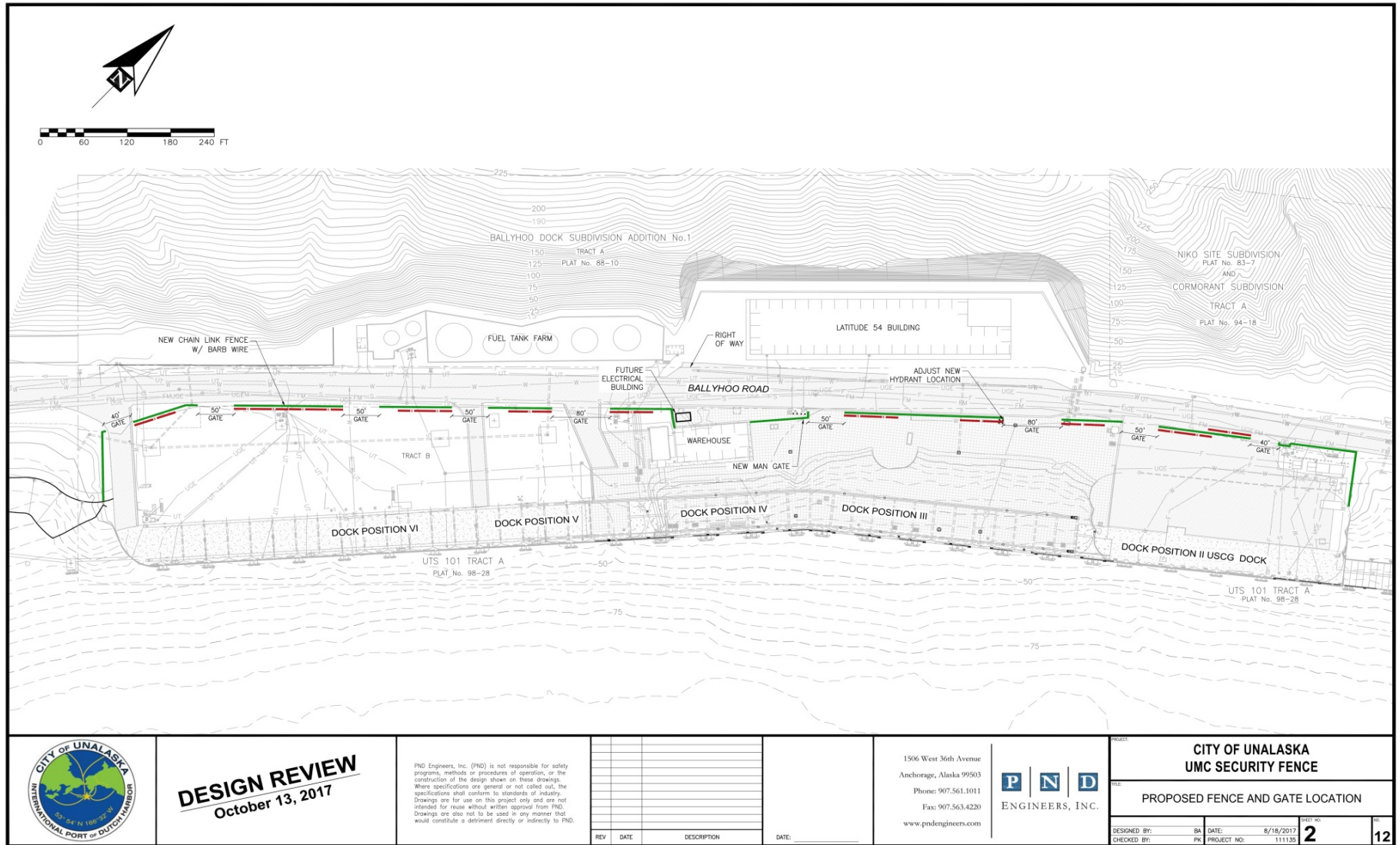
ATTACHMENTS:

Power Point Presentation from December 12, 2017

Turnagain Marine's Proposal

Draft Contract Amendment

HOMELAND SECURITY FENCING PROJECT UNALASKA MARINE CENTER



HOMELAND SECURITY FENCING PROJECT UNALASKA MARINE CENTER

- **History**
- **Benefits**
- **Grant Framework**
- **Project Design and Construction**
- **Costs**
- **Options for Construction**
- **Council Considerations**

HOMELAND SECURITY FENCING PROJECT HISTORY

- 2002 Homeland Security mandated Facility Security Plans
- 2005 Port of Dutch Harbor Facility Security Plan Approved
- 2012 Homeland Security Conducted Facility Strength and Vulnerability training
- 2014 Alaska Shield again identified challenges in securing access points at UMC
- Fencing UMC was identified as a solution for controlling access points
- 2016 Ports and Public Safety submitted a grant to Homeland security to procure and install fencing from Position 1 through Position 7
- Initial Request was for \$325,000, largest Grant awarded in 2016
- Reiterated as a vulnerability in Alaska Shield 2016

HOMELAND SECURITY FENCING PROJECT BENEFITS

- Solid solution for porous facility
- Less labor intensive
- Provides Independence for heightened security
- Provides stronger system for customer base
- Provides separation from pedestrians and operations
- Gives consideration for future military use of UMC
- Supports the movement of a variety of Hazardous cargo materials and the Ports status of a “126 facility”

HOMELAND SECURITY FENCING PROJECT GRANT FRAMEWORK

- **Deadline**
 - **Construction options to meet deadline**
- **Federal Requirements**
- **Basic Written Description**
 - **Layout**
 - **American standards of materials**
 - **Wind Load with icing considerations**

HOMELAND SECURITY FENCING PROJECT DESIGN AND CONSTRUCTION

- 8' fencing with barbed wire
- 9 Gated Access Points; 2-40', 5-50', 2-80'
- Wind load 150 mph
- Posts at 8' centers

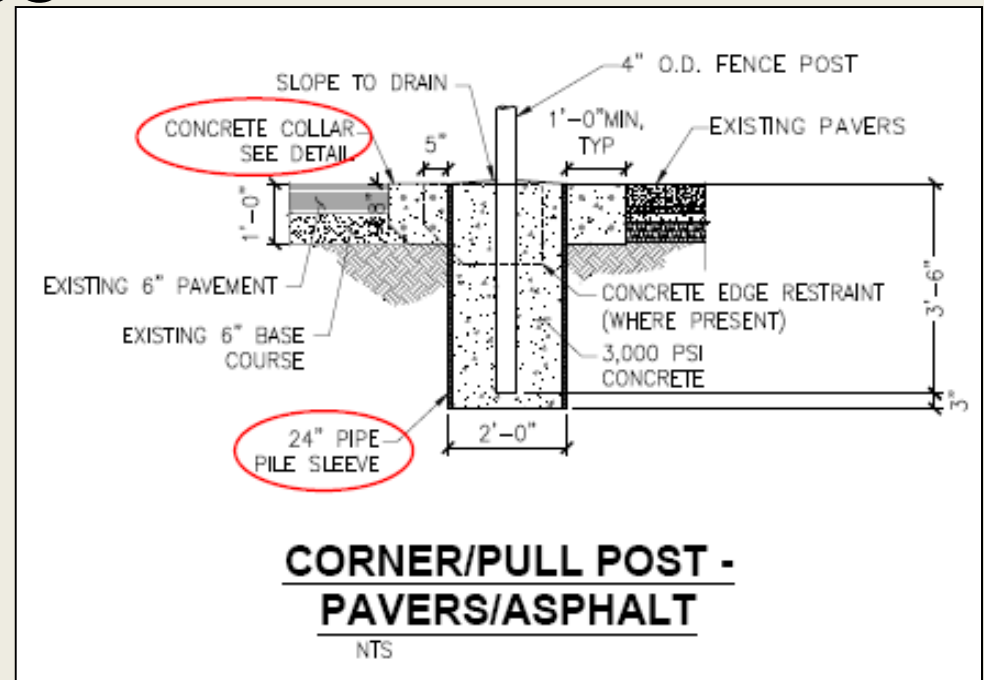
HOMELAND SECURITY FENCING PROJECT DESIGN AND CONSTRUCTION CONT.

Construction Phasing Options

- **Amend UMC Construction Contract to include Fence Footings**
- **Amend UMC Construction Contract to include Fence Footings for Positions 3 and 4**
- **De-Obligate the grant**

HOMELAND SECURITY FENCING PROJECT COST DRIVERS

- Concrete collars corner, gate and end posts
- Sleeved post holes
- Box Gates



HOMELAND SECURITY FENCING PROJECT

PROJECTED COSTS

Scenario	Description	TMC Change Order + PND Design	Estimated Remaining Work	Estimated Total Project Cost	Total City Funds	Grant Funds
1	De-obligate Grant	\$32,950	\$0	\$32,950	\$32,950	\$0
2	As currently planned, TMC installs all of the footings under a CO and the remainder of the work is bid out	\$227,610	\$533,777	\$761,387	\$436,387	\$325,000
3	TMC installs only the footings on Positions III & IV and the remainder of the work is bid out	\$150,950	\$637,268	\$788,218	\$463,218	\$325,000
4	TMC installs only the footings on Positions III & IV and De-Obligate the Grant	\$150,950	\$0	\$150,950	\$150,950*	\$0

*The City's anticipated future cost to bid the remaining work at a later date is \$660,000

HOMELAND SECURITY FENCING PROJECT COUNCIL CONSIDERATIONS

- Fund all the footings and bid the fence
- Fund the footings for 3 and 4 and bid the remainder of the footings and fence
- De-obligate the grant (returning Grant discussion)

Questions?



**ADDENDUM NO. 002
TO THE STANDARD FORM OF AGREEMENT
BETWEEN THE CITY OF UNALASKA AND
TURNAGAIN MARINE CONSTRUCTION CORPORATION**

THIS ADDENDUM NO. 002 is dated as of the _____ day of _____ in the year 2018, by and between the City of Unalaska (hereinafter called OWNER or CITY) and Turnagain Marine Construction Corporation (hereinafter called the CONTRACTOR).

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree to amend that certain Standard Form of Agreement, **CITY OF UNALASKA UMC DOCK POSITION III & IV REPLACEMENT**, between the OWNER and the CONTRACTOR, as follows:

Article 1. WORK

The list of Contract Documents shall be amended to include:

- The Request for Proposal dated 11/14/2017 attached as **Exhibit “A”** for the lump sum total of \$194,660.

Article 2. SCHEDULE AND COORDINATION

The list of Contract Documents shall be amended to include:

- The Owner will provide the Contractor with final footing coordinates by 4/1/2018.
- The Contractor's final completion deadline for the fence foundation work on UMC Positions V-VII and USCG Dock is 5/1/2018.
- The Contractor's final completion for the fence foundation work on UMC Dock Positions III-IV is 8/15/2018.
- The Owner will bid the remaining fence work outside this scope. The successful bidder will install the fence on UMC Dock Positions V-VII and USCG Dock between 5/1/2018 and 9/14/2018. The successful bidder will also install the fence on UMC Dock Positions III-IV between 8/15/2018 and 9/14/2018.
- The Contractor will coordinate their work with the Owner and the successful bidder so as to minimize impacts to either contract.

**ADDENDUM NO. 002
TO THE STANDARD FORM OF AGREEMENT
BETWEEN THE CITY OF UNALASKA AND
TURNAGAIN MARINE CONSTRUCTION CORPORATION**

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in duplicate on the respective date indicated below.

CONTRACTOR:

CITY OF UNALASKA:

BY: _____
Jason Davis
President

BY: _____
Nancy Peterson
City Manager

STATE OF ALASKA)
) ss.
THIRD JUDICIAL DISTRICT)

STATE OF ALASKA)
) ss.
THIRD JUDICIAL DISTRICT)

The foregoing instrument was acknowledged before me on the ____ day of _____, 2018, by Jason Davis, the President of Turnagain Marine Construction Corporation, an Alaskan Corporation, on behalf of the corporation.

The foregoing instrument was acknowledged before me on the ____ day of _____, 2018, by Nancy Peterson, the City Manager of the City of Unalaska, Alaska, a First Class Alaska Municipal Corporation, on behalf of the City of Unalaska.

Notary Public
State of Alaska
My Commission Expires: _____

Notary Public
State of Alaska
My Commission Expires: _____

REQUEST FOR PROPOSAL				DATE	November 14, 2017
PROJECT NO DPW Project # 13602		PROJECT NAME UMC Dock Position III & IV Replacement Project		RFP NO 009	
REQUEST RESPONSE BY DATE November 17, 2017		PRIORITY x URGENT NORMAL		CRITICAL PATH YES x NO	
SPECIFICATION SECTION N/A		SPECIFICATION PARAGRAPH N/A		SPECIFICATION PAGE N/A	
DRAWING DETAIL N/A		DRAWING SHEET NUMBER N/A			
QUESTION / ISSUE (DESCRIPTION OF EXISTING CONDITION AND/OR DEFICIENCY) Please provide a price for installation and accommodation of foundations for future UMC security fencing Scope of work: <ul style="list-style-type: none"> Furnish and Install foundation casings including excavation, backfill, pile driving etc. Remove gravel, rock, and any debris from casings to the minimum depth indicated in the plans. Install concrete collars at foundation casing. Concrete to conform with specifications for the Dock Replacement Project Provide saw cutting where shown or indicated on the plans. Repair any damaged to pavements caused by installation of casings. Adhere to requirement of the General notes in the attached plans. Price to include all materials, equipment, and labor. 					
PROPOSED SOLUTION Please provide a lump sum price to perform the work described above using the attached Price Form.					
LIST OF ATTACHMENTS N/A					

Paul Kendall
PROJECT ENGINEER

11-14-2017
DATE

CONTRACTOR RESPONSE (DISPOSITION)	
<p>See below.</p>	
LIST OF ATTACHMENTS	

CONTRACTOR REPRESENTATIVE

DATE

**UMC Security Fence Foundations
RFP 009 Price Form**

DPW Project # 13602

Item	Description	Estimated Quantity	Unit	Unit Cost	Total Cost (Lump Sum)
1	Corner/Pull Post - Soil (CP1,2,10,&11)	4	ea	1400.00	5600.00
2	Corner/Pull Post - Asphalt, Pavers, Edge (CP3,4,5,6,7,8,&9)	7	ea	4000.00	28000.00
3	Single Frame Gate Post - Soil (SF1,2,3,4,5,&6)	6	ea	1500.00	9000.00
4	Single Frame Gate Post - Asphalt, pavers, edge (SF7,8,9,10,11,&12)	6	ea	4500.00	27000.00
5	Box Frame Gate Post - Soil (BF1,2,3,4,5,&6)	6	ea	3500.00	21000.00
6	Box Frame Gate Post - Asphalt, pavers, edge (BF7,8,9,&10)	4	ea	4900.00	19600.00
7	Gate Catch Posts - Soil (GCP1,2,3,&4)	4	ea	1800.00	7200.00
8	Gate Catch Posts - Asphalt, paver, edge (GCP5,6,7,8,&9)	5	ea	4700.00	23500.00
9	3' Man Gate Post (Pavers) (Similar to Item No. 2)	2	ea	4200.00	8400.00
10	8" Steel Sleeves in Edge Constraint	26	ea	360.00	9360.00
11	Line Posts Collars & 8" Steel Sleeves pavers	17	ea	900.00	15300.00
12	Asphalt/Concrete Repair	1	LS	20,700.00	20700.00
		TOTAL LUMP SUM COST:			194,660.00

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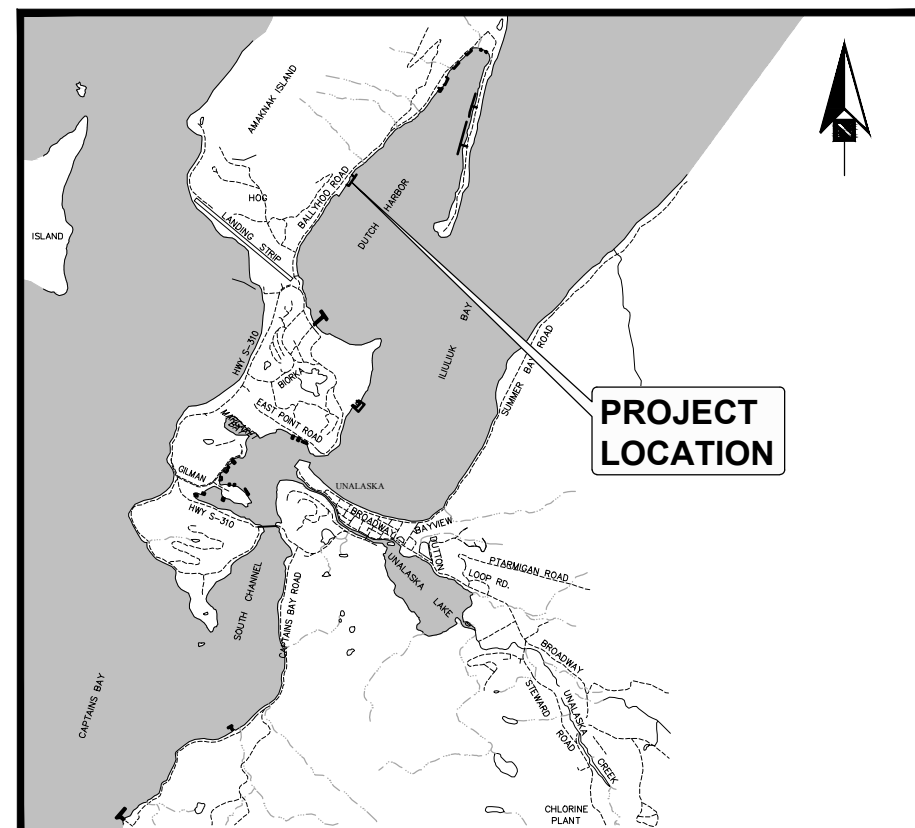
CITY OF UNALASKA

UMC SECURITY FENCE

DPW PROJECT #13602
OCTOBER 2017

DRAWING INDEX

1	COVER SHEET & INDEX
2	OVERALL LAYOUT
3-6	FENCE AND GATE PLAN
7	FENCE DETAILS
8-9	GATE DETAILS
10-12	FOOTING DETAILS



VICINITY MAP



STATE OF ALASKA



95% DESIGN
October 20, 2017

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DATE: _____

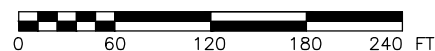
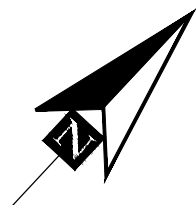
1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com








CITY OF UNALASKA
UMC SECURITY FENCE

COVER SHEET & INDEX

DESIGNED BY: BA		DATE: 8/18/2017	SHEET NO: 1	NO. 12
CHECKED BY: PK		PROJECT NO: 111135	21	



LEGEND

- | | |
|---|-----------------|
|  | FENCE |
|  | GATE |
|  | PAVEMENT |
|  | CONCRETE PAVERS |
|  | CONCRETE |

PROJECT CONTROL

COORDINATE TABLE				
Point #	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	9650.728	10447.590	13.44	SET MAG NAIL W/ FLASHER
71	10594.037	11431.025	13.38	SET MAG NAIL W/ FLASHER
72	10770.034	11664.643	13.48	SET MAG NAIL W/ FLASHER
80	10508.995	11044.086	13.41	SET MAG NAIL W/ FLASHER
81	9811.103	10284.378	13.85	SET MAG NAIL W/ FLASHER
82	10022.969	10506.184	14.11	SET MAG NAIL W/ FLASHER

SURVEY NOTES:

1. VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW = 0.00')
2. BASIS OF VERTICAL DATUM FOR THIS SURVEY IS FROM THE N.O.A.A. BENCH MARK "No. 20 1974" ELEVATION 15.50' MLLW (SEE NOTE 1). THE BENCH MARK IS SET VERTICALLY IN THE EASTERN CORNER OF THE ALYESKA BUNK HOUSE. FOR ADDITIONAL INFORMATION REFER TO THE PUBLISHED BENCH MARK SHEET FOR 9462620 UNALASKA.
3. BASIS OF BEARING FOR THIS SURVEY IS N 47°00'00" E AND IS BASED ON THE FOUND PRIMARY MONUMENTS LOCATED ALONG THE WESTERN BOUNDARY OF TRACT A, BALLYHOO DOCK SUBDIVISION ADDITION No. 1, RECORDED IN THE ALEUTIAN ISLANDS RECORDING DISTRICT AS PLAT No. 88-10.
4. INFORMATION REGARDING THE LOCATION OF THE UNDERGROUND UTILITIES WAS PROVIDED BY ONSITE UTILITY COMPANY LOCATORS & INFORMATION SUPPLIED TO PND SURVEYORS BY THE CITY OF UNALASKA PUBLIC WORKS. REMAINING UTILITIES WERE LOCATED BASED ON VISIBLE ABOVE GROUND UTILITY STRUCTURES AND RECORD DRAWINGS.
5. CONTOURS ARE IN FEET, WITH FIVE FOOT INTERVALS.
6. FIELD SURVEY PERFORMED AUGUST 18-23, 2008, FEBRUARY 3-6, 2015, JULY 16-23, 2015 AND APRIL 30 TO MAY 6, 2016.



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October 20, 2017

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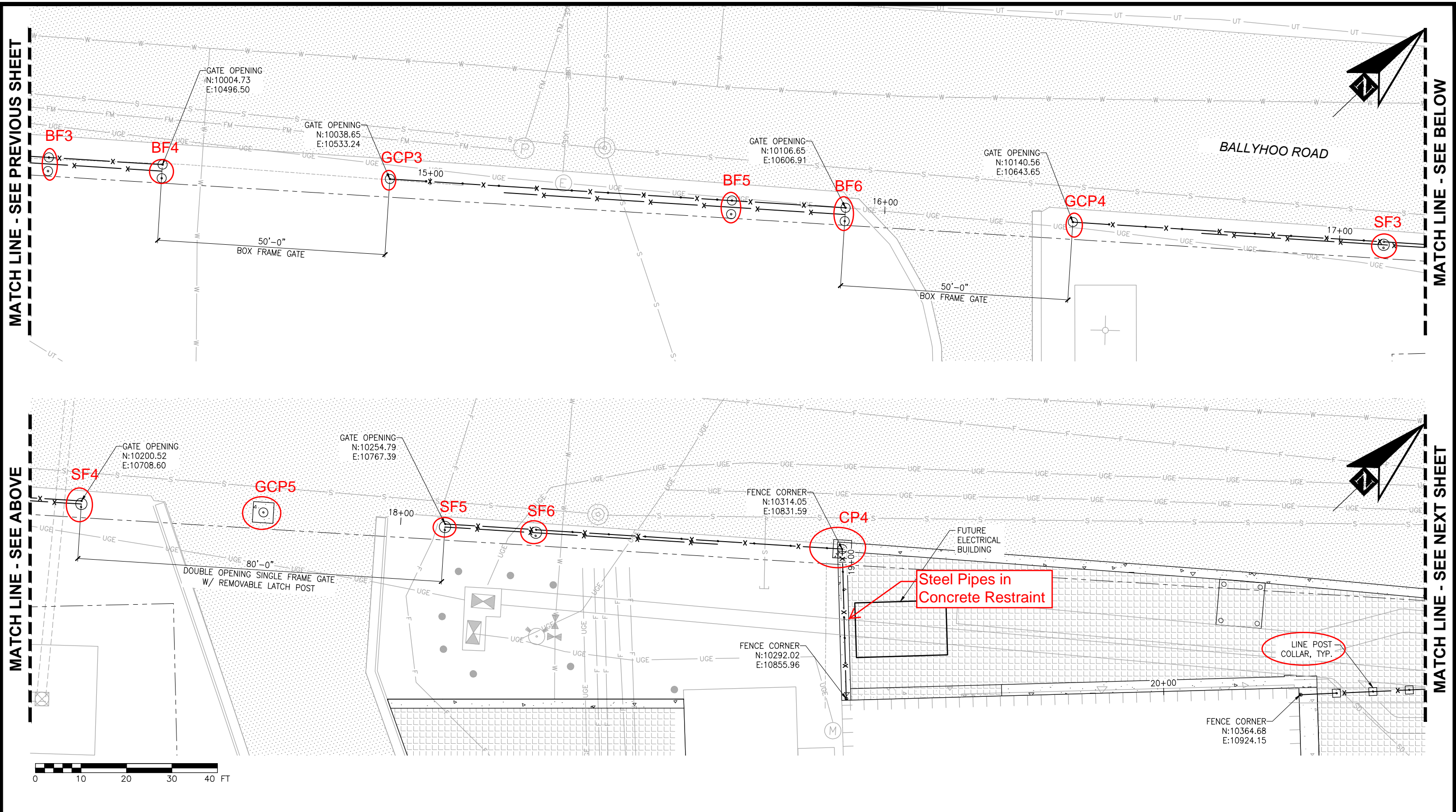
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DATE: _____

1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com



PROJECT:		<h1 style="text-align: center;">CITY OF UNALASKA</h1> <h1 style="text-align: center;">UMC SECURITY FENCE</h1>	
TITLE:		<h2 style="text-align: center;">OVERALL LAYOUT</h2>	
DESIGNED BY:	BA	DATE:	8/18/2017
CHECKED BY:	PK	PROJECT NO:	111135
		SHEET NO:	<div style="font-size: 48pt; font-weight: bold;">2</div> <div style="font-size: 24pt; color: blue; font-weight: bold;">23</div> <div style="font-size: 24pt; color: blue; font-weight: bold;">14</div>



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October 20, 2017

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REV	DATE	DESCRIPTION

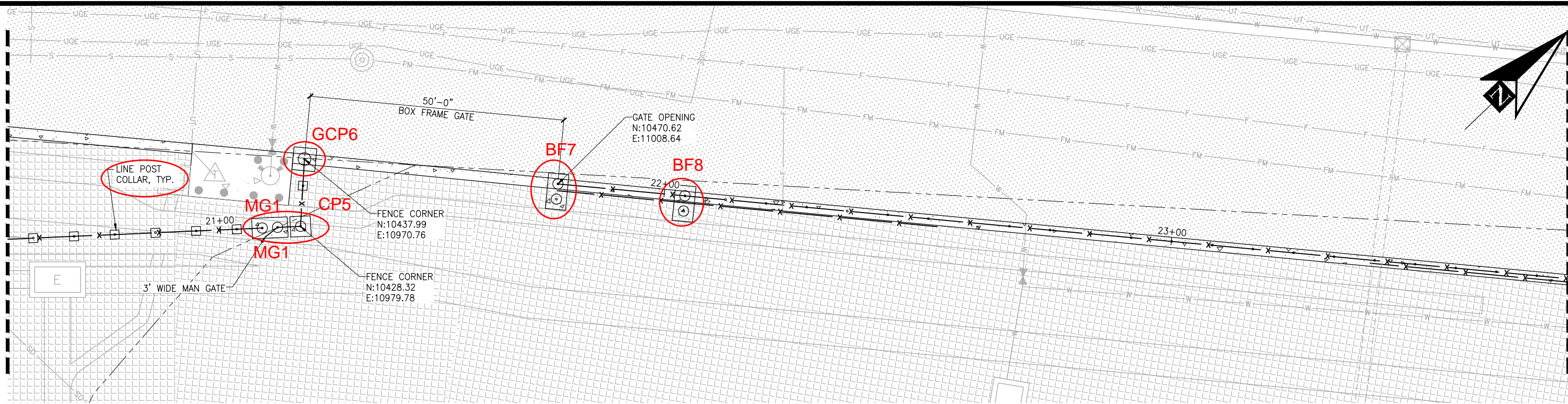
DATE: _____

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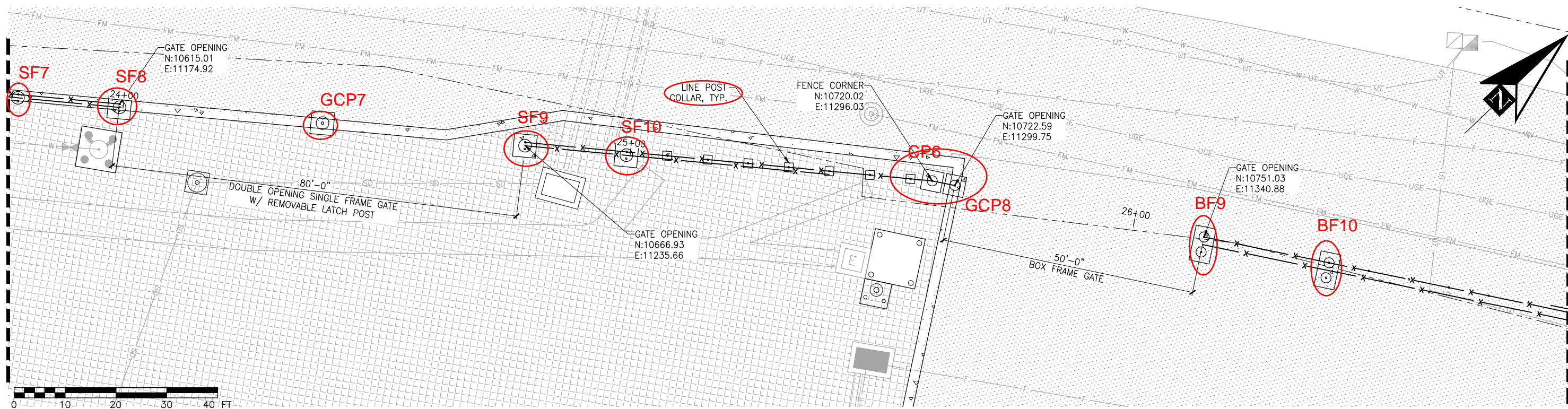
PROJECT: CITY OF UNALASKA UMC SECURITY FENCE			
TITLE: FENCE AND GATE PLAN			
DESIGNED BY: BA	DATE: 8/18/2017	SHEET NO: 4	NO. 12
CHECKED BY: PK	PROJECT NO: 111135		

MATCH LINE - SEE PREVIOUS SHEET



MATCH LINE - SEE BELOW

MATCH LINE - SEE ABOVE



MATCH LINE - SEE NEXT SHEET



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October 20, 2017

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REV	DATE	DESCRIPTION

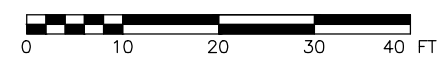
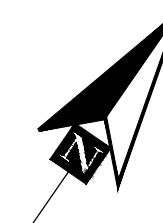
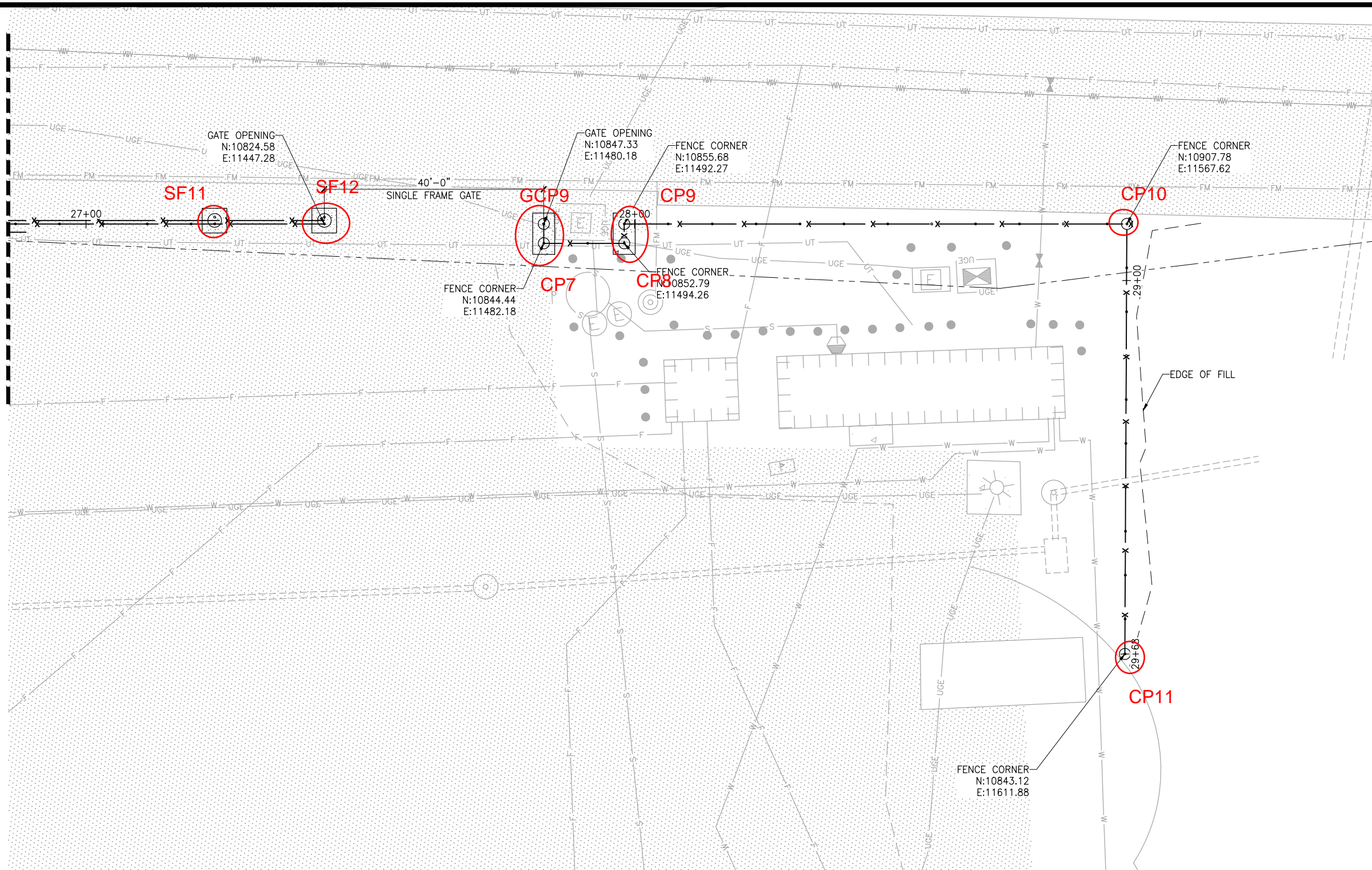
DATE: _____

1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com



PROJECT: CITY OF UNALASKA UMC SECURITY FENCE			
TITLE: FENCE AND GATE PLAN			
DESIGNED BY: BA	DATE: 8/18/2017	SHEET NO: 5	NO. 12
CHECKED BY: PK	PROJECT NO: 111135		

MATCH LINE - SEE PREVIOUS SHEET



95% DESIGN
October 20, 2017

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DATE: _____

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Fax: 907.563.4220
www.pndengineers.com



PROJECT:		CITY OF UNALASKA UMC SECURITY FENCE	
TITLE:		FENCE AND GATE PLAN	
DESIGNED BY:	BA	DATE:	8/18/2017
CHECKED BY:	PK	PROJECT NO:	111135
		SHEET NO:	6
			26
		NO.	12



- 
- The logo is a circular seal. The outer ring contains the text "CITY OF UNALASKA" at the top and "INTERNATIONAL PORT OF DUTCH HARBOR" at the bottom. The inner circle features a stylized map of Alaska in green, with a yellow star marking the location of Dutch Harbor. Below the map, the coordinates "53° 54' N 166° 32' W" are inscribed.

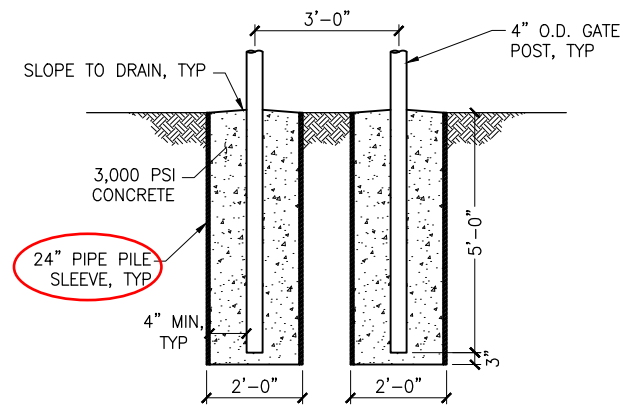
95% DESIGN
October 20, 2017

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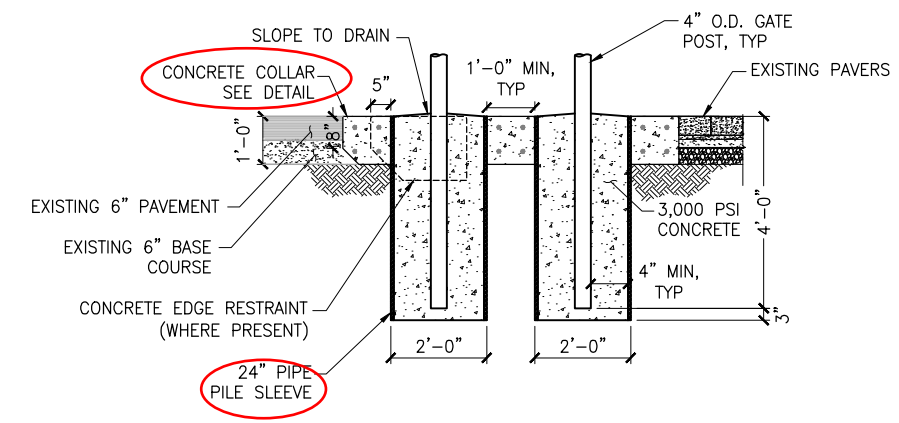
DATE: _____

P N D
ENGINEERS, INC.

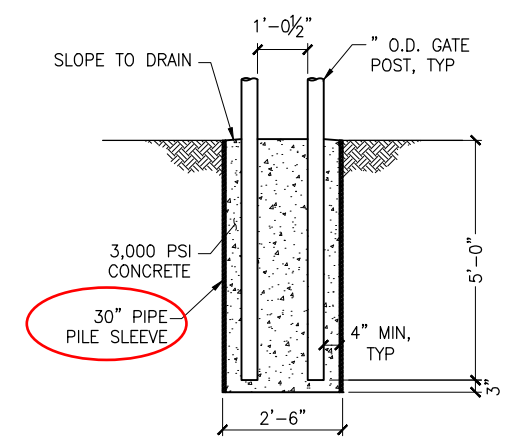
PROJECT:		CITY OF UNALASKA UMC SECURITY FENCE	
TITLE:		FOOTING DETAILS	
DESIGNED BY:	BA	DATE:	8/18/2017
CHECKED BY:	PK	PROJECT NO:	111135
		SHEET NO:	10 27 12



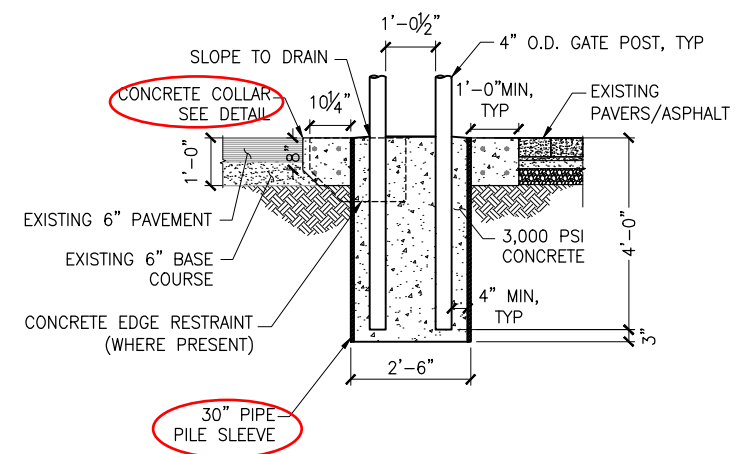
**BOX FRAME
GATE POST - SOIL**
NTS



**BOX FRAME GATE POST -
ASPHALT/PAVERS**
NTS



**SINGLE FRAME
GATE POST - SOIL**
NTS



**SINGLE FRAME GATE POST -
ASPHALT/PAVERS**
NTS

- NOTES:
1. CONCRETE COLLARS AND PIPE PILE SLEEVES TO BE INSTALLED UNDER A SEPARATE CONTRACT.
 2. FENCING CONTRACTOR SHALL COORDINATE LOCATION OF FENCE FOUNDATIONS WITH FOUNDATION CONTRACTOR AND UTILITY COMPANIES TO ENSURE COMPATIBILITY WITH FENCE LAYOUT



95% DESIGN
October 20, 2017

PND Engineers, Inc. (PND) is not responsible for safety programs, methods or procedures of operation, or the construction of the design shown on these drawings. Where specifications are general or not called out, the specifications shall conform to standards of industry. Drawings are for use on this project only and are not intended for reuse without written approval from PND. Drawings are also not to be used in any manner that would constitute a detriment directly or indirectly to PND.

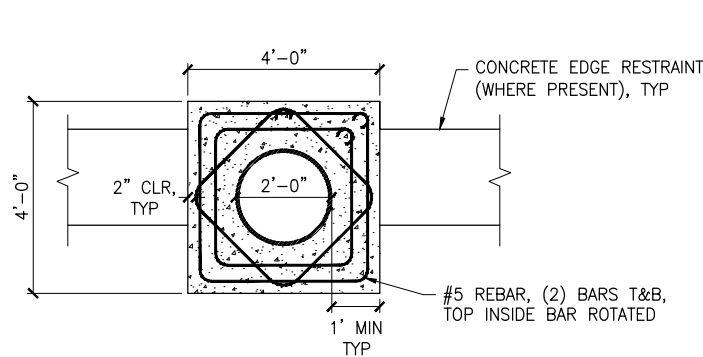
REV	DATE	DESCRIPTION

DATE: _____

1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com

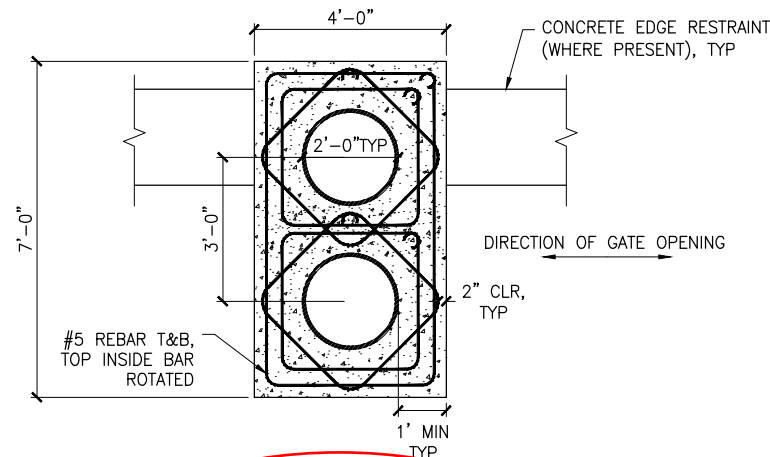


CITY OF UNALASKA UMC SECURITY FENCE			
TITLE: FOOTING DETAILS			
DESIGNED BY: BA	DATE: 8/18/2017	SHEET NO: 11	NO. 28
CHECKED BY: PK	PROJECT NO: 111135		12



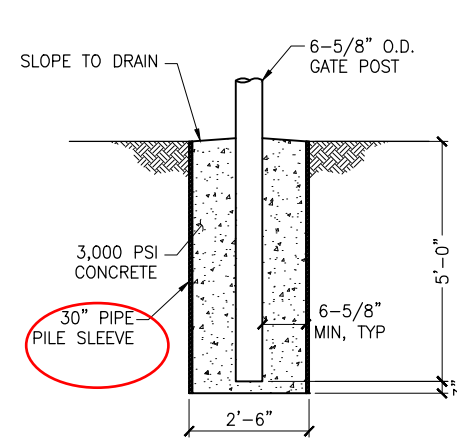
**CORNER/PULL POST -
CONCRETE COLLAR
PLAN VIEW**

NTS



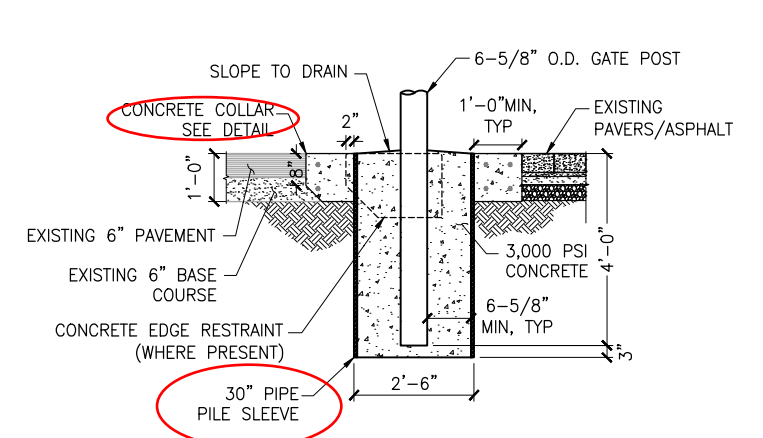
**BOX FRAME COLLAR
PLAN VIEW**

NTS



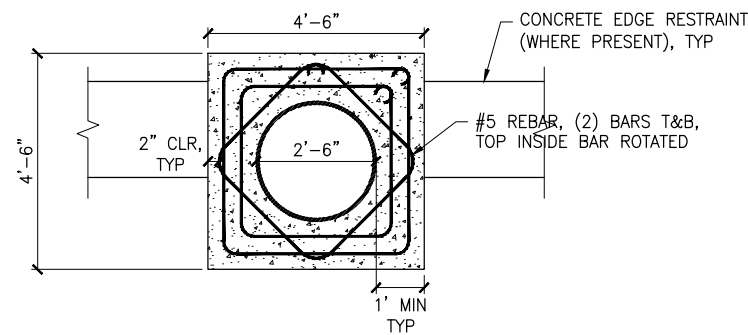
**GATE CATCH
POST - SOIL**

NTS



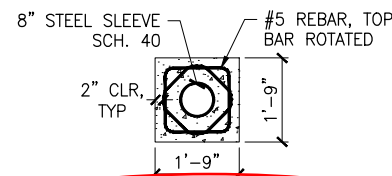
**GATE CATCH POST -
ASPHALT/PAVERS**

NTS



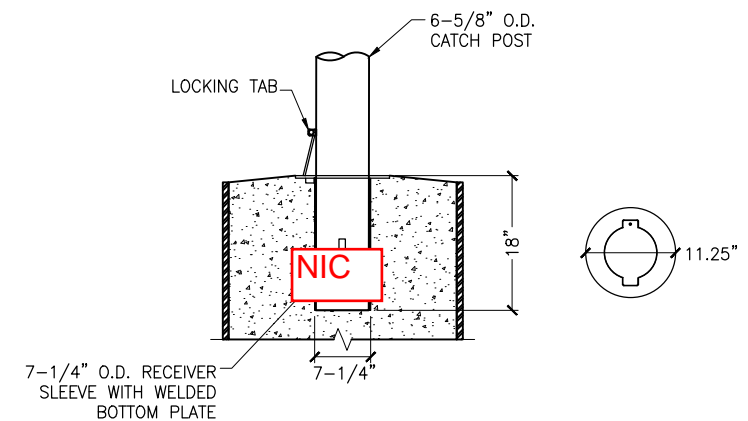
**SINGLE FRAME GATE POST & GATE
CATCH POST - CONCRETE COLLAR
PLAN VIEW**

NTS



**LINE POST - CONCRETE COLLAR
PLAN VIEW**

NTS



**REMOVABLE CATCH
POST CONNECTION
(80' GATE ONLY)**

NTS

NOTES:

1. CONCRETE COLLARS DETAILS FOR INFORMATION ONLY. WORK TO BE PERFORMED UNDER A SEPARATE CONTRACT.
2. FENCING CONTRACTOR SHALL COORDINATE LOCATION OF FENCE FOUNDATIONS WITH FOUNDATION CONTRACTOR AND UTILITY COMPANIES TO ENSURE COMPATIBILITY WITH FENCE LAYOUT



95% DESIGN
October 20, 2017

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REV	DATE	DESCRIPTION

DATE: _____

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PROJECT: CITY OF UNALASKA UMC SECURITY FENCE			
TITLE: FOOTING DETAILS			
DESIGNED BY: BA	DATE: 8/18/2017	SHEET NO: 12	NO. 29
CHECKED BY: PK	PROJECT NO: 111135	12	12