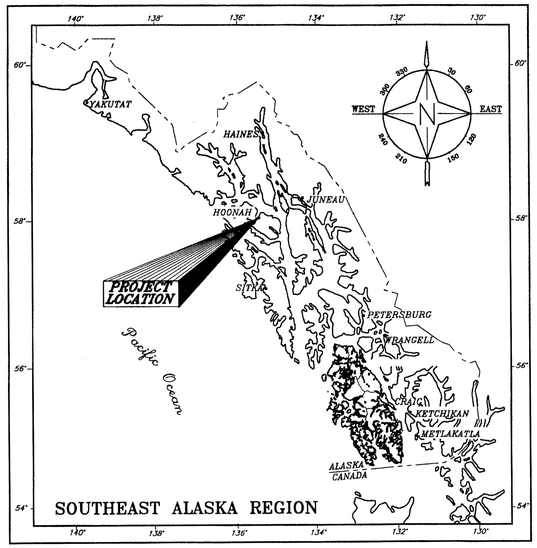
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

A PROJECT AT

HOONAH, ALASKA



VICINITY MAP

TRANSPORTATION & PUBLIC FACILITIES • STATE OF ALASKA •

PROJECT INDEX
PROJECT SUMMARY
Title, Project Overview, Estimate of Quantities & Survey Control - Sheets T1-T4
PLANSETS
Planset A - Ferry Terminal Uplands - 27 Sheets
Planset B - Passenger Terminal Building, Water & Sewer Connections, & Ferry Terminal Electrical - 52 Sheets

PROJECT SUMMARY

HOONAH FERRY TERMINAL IMPROVEMENTS

PROJECT NO. 67813 / AK-04-0013

AS-BUILT DRAWINGS
CONTRACTOR: CHANNEL CONST.
START DATE: JANUARY 25, 2010
END DATE: JANUARY 11, 2011
PROJECT ENGR: TINA BERGAM

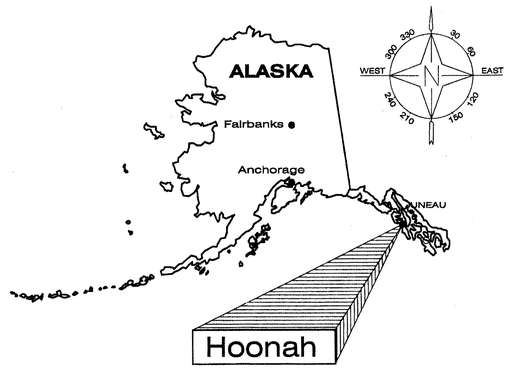
Project Consists of:

Planset A - Ferry Terminal Uplands & Sewer Mainline Extension

WORK SUMMARY: This portion of the project shall consist of the expansion of the existing staging/parking areas and replacement of the on-site sewer treatment system with a connection to the city sewer utility at the Hoonah Ferry Terminal. Other work consists of building four structures (Storage Shed, Lift Station Shelter, Pursers Shelter, Walkway/Baggage Cart Covered Areas), re-grading the existing uplands parking & staging areas, removing two Underground Storage Tanks (UST), installing new Aboveground Storage Tanks (AST), removal and replacement of pavement, curb & gutter, concrete sidewalk, storm drain pipes and manholes/inlets.

Planset B - Passenger Terminal Building, Water & Sewer Connections, & Ferry Terminal Electrical

WORK SUMMARY: This portion of the project shall consist of the construction of a new Passenger Terminal Building and uplands Electrical utilities at the Hoonah Ferry Terminal. Terminal Building work includes utility (water, sewer, electrical) connections within 5-feet of the building perimeter, as well as connections to the Sewer and Water mains on Cannery Road.



LOCATION MAP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED: _____ Date 11/19/09
Regional Preconstruction Engineer
Victor L. Peters, P.E.

APPROVED: _____ Date 11/19/09
Director, S.E. Region
Gary L. Davis

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:
_____ Date 10-28-13
Construction Project Manager

PROJECT NUMBER: 67813/AK-04-0013
DATE: November, 2009
SHEET T1 OF T4

STATE OF ALASKA
Joel D. Osburn
CE-11014
PROFESSIONAL ENGINEER
11-19-09

U.S.S 4539
LOT 4
CITY OF HOONAH

U.S.S 1929
CITY OF HOONAH

CANNERY ROAD

Historic Cemetary

Existing City of Hoonah Rock Quarry

New riprap slope, typ

Existing Generator Bldg

New Sanitary Sewer extension

Road Right-of-Way Line, typ

FRONT STREET

To Hoonah

Storage Shed

Existing Terminal Bldg

Limits of expanded parking

EELGRASS

New Terminal Bldg

New riprap apron

Limits of existing staging area

Limits of existing parking

Existing Vehicle Transfer Bridge

Existing Dolphins to remain

Existing Dolphins to remain

Property Line, typ

MV MAT/MAL

MV TAKU

MV AURORA

A.T.S. 29
STATE OF ALASKA DOT&PF

A.T.S. 29
PARCEL 1
CITY OF HOONAH
Marine Industrial Center

PORT FREDERICK

LEGEND
New Uplands Fill Expansion

TIDE DATA
EHW = +20.0
HTL = +19.3
MHHW = +14.8
MHW = +13.9
MLLW = 0.0
ELW = -5.1

0 50 100
SCALE IN FEET
Halfsize Plans

ANY CHANGES SHOW ON DETAILED SHEETS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
Joel D. Osburn AS CE-11014 — 11-19-09
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

PROJECT LAYOUT SHEET

PATH: O:\HNH\67813\MF\PLANSET_TITLE SHEETS\02 - PROJECT LAYOUT SHEET.DWG
TAB: Tue, 17/Nov/09 02:24PM OSBURN, JOEL D (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	# OF SHEETS
			AK-04-0013 / 67813	2009	T2	4

ESTIMATE OF QUANTITIES

Item #	Item Description	Pay Unit	Quantity
202 (1)	Removal of Structures & Obstructions	Lump Sum	All Required
203 (19)	Uplands Expansion	Lump Sum	All Required
203 (20)	Regrade Existing Uplands	Lump Sum	All Required
301 (1)	Aggregate Base Course, Grading–D1	Cubic Yard	1800
401 (1)	Asphalt Concrete, Type II; Class B	Ton	905
401 (2)	Asphalt Cement, Grade PG 58–28	Ton	60
402 (1)	STE–1 Asphalt for Tack Coat	Ton	1.8
603 (21–18)	18 Inch Corrugated Polyethylene Pipe	Linear Foot	250
603 (21–24)	24 Inch Corrugated Polyethylene Pipe	Linear Foot	240
604 (1A)	Storm Sewer Manhole, Type 1	Each	1
604 (1B)	Oil–Water Separator	Each	3
604 (2)	Sanitary Sewer Manhole	Each	4
604 (5)	Inlet, Type A	Each	7
606 (1)	W–beam Guardrail	Linear Foot	260
606 (6)	Removing and Disposing of Guardrail	Linear Foot	470
607 (3)	Chain Link Fence	Linear Foot	102
607 (7)	12–foot Double Swing Gate	Each	2
608 (1)	Concrete Sidewalk, 4inches thick	Square Yard	480
608 (6)	Curb Ramp	Each	6
609 (2A)	Curb and Gutter, Type A	Linear Foot	770
609 (2B)	Curb and Gutter, Type B	Linear Foot	575
615 (1)	Standard Signs	Square Foot	200
625 (2)	Pedestrian Barrier	Linear Foot	330
626 (3)	Sanitary Sewer Force Main	Lump Sum	All Required
626 (4)	Gravity Sewer	Lump Sum	All Required
627 (11)	Water Service to Terminal Building	Lump Sum	All Required
627 (12)	Water Service Crossing	Lump Sum	All Required
628 (1)	Underground Fuel Tank Removal	Lump Sum	All Required
628 (2)	Contaminated Soil Removal/Remediation	Contingent Sum	All Required
628 (3)	500 gal. Aboveground Fuel Tank	Lump Sum	All Required
628 (4)	300 gal. Aboveground Fuel Tank	Lump Sum	All Required
629 (1)	Sanitary Sewer Lift Station	Lump Sum	All Required
633 (2)	Silt Barrier	Linear Foot	600
640 (1)	Mobilization & Demobilization	Lump Sum	All Required
640 (4)	Worker Meals and Lodging, or Per Diem	Lump Sum	All Required
641 (1)	Erosion and Pollution Control Administration	Lump Sum	All Required
641 (3)	Temporary Erosion, Sediment and Pollution Control	Lump Sum	All Required
641 (4)	Temporary Erosion Sediment and Pollution Control Additives	Contingent Sum	All Required
641 (7)	Silt Containment Boom	Lump Sum	All Required
642 (1)	Construction Surveying	Lump Sum	All Required
643 (2)	Traffic Maintenance	Lump Sum	All Required
643 (15)	Flagging	Contingent Sum	All Required
644 (1)	Field Office	Lump Sum	All Required
644 (2)	Field Laboratory	Lump Sum	All Required
644 (6)	Vehicles	Lump Sum	All Required
646 (1)	CPM Scheduling	Lump Sum	All Required
662 (1)	Electrical Power & Lighting System	Lump Sum	All Required
670 (1)	Painted Traffic Markings	Lump Sum	All Required
690 (1)	Temporary Staging/Parking and Terminal Building	Lump Sum	All Required
695 (1)	Terminal Building	Lump Sum	All Required
695 (2)	Storage Building	Lump Sum	All Required
695 (3)	Pursers Shelter	Lump Sum	All Required
695 (4)	Lift Station Shelter	Lump Sum	All Required
695 (5)	Generator Building Modifications	Lump Sum	All Required
	Additive Alternate A		
695 (6)	Covered Walkway Structure	Lump Sum	All Required

CHANGE ORDERS

New Items Established by Change Order

ITEM NO.			ITEM DECRIPTION		UNIT	UNIT PRICE		AMOUNT
607(4)			Security Fence & Gates	C.O. #1	LS	$85,940.00	1.00	$85,940.00
695(7)			Abutment Modifications	C.O. #2	LS	$42,000.00	1.00	$42,000.00
695(8)			Additional Insulation	C.O. #2	LS	$3,013.00	1.00	$3,013.00
626(5)			Utility Modifictions	C.O. #3	LS	$13,038.74	1.00	$13,038.74
203(21)			Kayak Path Grading	C.O. #3	LS	$1,278.00	1.00	$1,278.00
662(2)			Electrical Modifications #1	C.O. #4	LS	$15,379.70	1.00	$15,379.70
662(3)			Electrical Modifications #2	C.O. #4	LS	$24,452.40	1.00	$24,452.40
695(7)			Pursers Shelter 2	C.O. #4	LS	$17,141.34	1.00	$17,141.34

BASIS OF ESTIMATE

Item #	Item Description	Pay Unit	Quantity/ Estimating Factor
203 (19)	Uplands Expansion – includes the following:		
	Clearing and Grubbing	Acre	0.25
	Unclassified Excavation	Cubic Yard	800
	Borrow	Cubic Yard	37,000
	Riprap, Class IV	Cubic Yard	5,700
	Estimated Subsidence	Cubic Yard	2,500
	Geogrid	Square Yard	7,000
	Geotextile, Separation	Square Yard	3,000
	Seeding	Acre	0.25
	Topsoil	Acre	0.25
401 (1)	Asphalt Concrete, Type II; Class B		117 Lbs/S.Y./in.
401 (2)	Asphalt Cement, Grade PG 58–28		6.0% of Item 401(1)
402 (1)	STE–1 Asphalt for Tack Coat		3.0% of Item 401(2)

Abbreviations

SS	stainless steel
Typ	typical
o.c.	on center
o–o	out to out
PL	plate
CL	centerline
Galv.	galvanized
ESCP	Erosion & Sediment Control Plan
DIP	Ductile Iron Pipe
HDPE	High Density Polyethylene
CBJ	City & Borough of Juneau
A.B.	Anchor Bolt
OS	Oil Supply
OR	Oil Return

LEGEND

- A / XX — Alphabetic reference for section view; Sheet where section view is located
- 1 / XX — Numeric reference for detail view; Sheet where detail view is located
- View title: Title — A / XX (or 1) — Reference for section or detail view; Sheet where section or detail view was first referenced
- A — A — Reference for same sheet section or detail view

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
STATE OF ALASKA – Joel D. Osburn – CE-11014 – REGISTERED PROFESSIONAL ENGINEER
(1-19-09)
CHECKED BY: K. Miller
DRAWN BY: Staff
PATH: O:\HNH\67813\MF\PLANSET_TITLE SHEETS\03 – ESTIMATE OF QUANTITIES.DWG
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

ESTIMATE OF QUANTITIES

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	# OF SHEETS
			AK-04-0013 / 67813	2009	T3	4

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
31	603456.8170	297582.6241	26.55	GPS_BC3.75_NOS-FERRY1981_HFT-1
32	603601.8077	297600.0224	23.43	NOS_BC_FERRY_RM2
34	603390.6962	298011.5027	26.02	GPS_BC2.5"/WELL_TP2A_DOT_CL_MON_HFT-4
37	603698.0408	297764.9248	29.74	GLO_BC2.5"_C2_S1929
56	603646.2895	297540.3293	23.07	BC2"_DOT_HV-1
57	603606.7974	297481.5515	22.55	ALCTRL_2"_57

CONTROL MONUMENT NOTE:

If any pair of control points disagree from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

Whether listed or not, all monuments or property markers or accessories which will be disturbed or buried shall be referenced prior to being disturbed and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction engineer for review prior to recording. coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

HORIZONTAL CONTROL

Horizontal Control for this project is based on the Hoonah Grid 2005 holding OPUS derived values at HFT-1 (NOS MONUMENT "Ferry-1981").

At HFT-1 also known as NOS monument "Ferry-1981"

OPUS derived Position: NAD83 (CORS96) (Epoch 2002.0000)
N 58°07'00.44427" W 135°27'26.11473"
AK83-1F N 2299376.7467' E 2339745.9227'
HAE : 9.960m

The DOT/PF Hoonah Grid 2005 System is a local ground coordinate system based at US Army Corps of Engineers station "HH-A". New coordinates for HH-A were derived from static sessions between our OPUS derived position at "Ferry-1981" and "HH-A". The grid relates to AKSPC zone 1 NAD83 through the following parameters:
Zone = NAD83 AKSPC ZONE 1
Grid Scale = 0.999901
Convergence = -1°30'05"
Translation about COE point HH-A (#12) as follows:
AKSPC Northing = 22958558.1264 FT US
AKSPC Easting = 2342071.6656 FT US
Local Northing = 600000.0000 FT US
Local Easting = 300000.0000 FT US

Project Specific Basis of Horizontal Control

#31 NOS FERRY 1981 : 3.75" brass cap located in abutment at the SE end of Ferry Transfer Bridge.
HNH05-Grid N 603456.8170 FT US, E 297582.6241 FT US
AKSPC N 2299376.7464 FTUS AKSPC E 2339745.9226 FT US

#12 COE HH-A : 3.25" brass cap located concrete dock at the NE corner of Hoonah Harbor.
HNH05-Grid N 600000.0000 FT US, E 300000.0000 FT US
AKSPC N 2295858.1264 FT US AKSPC E 2342071.6656 FT US

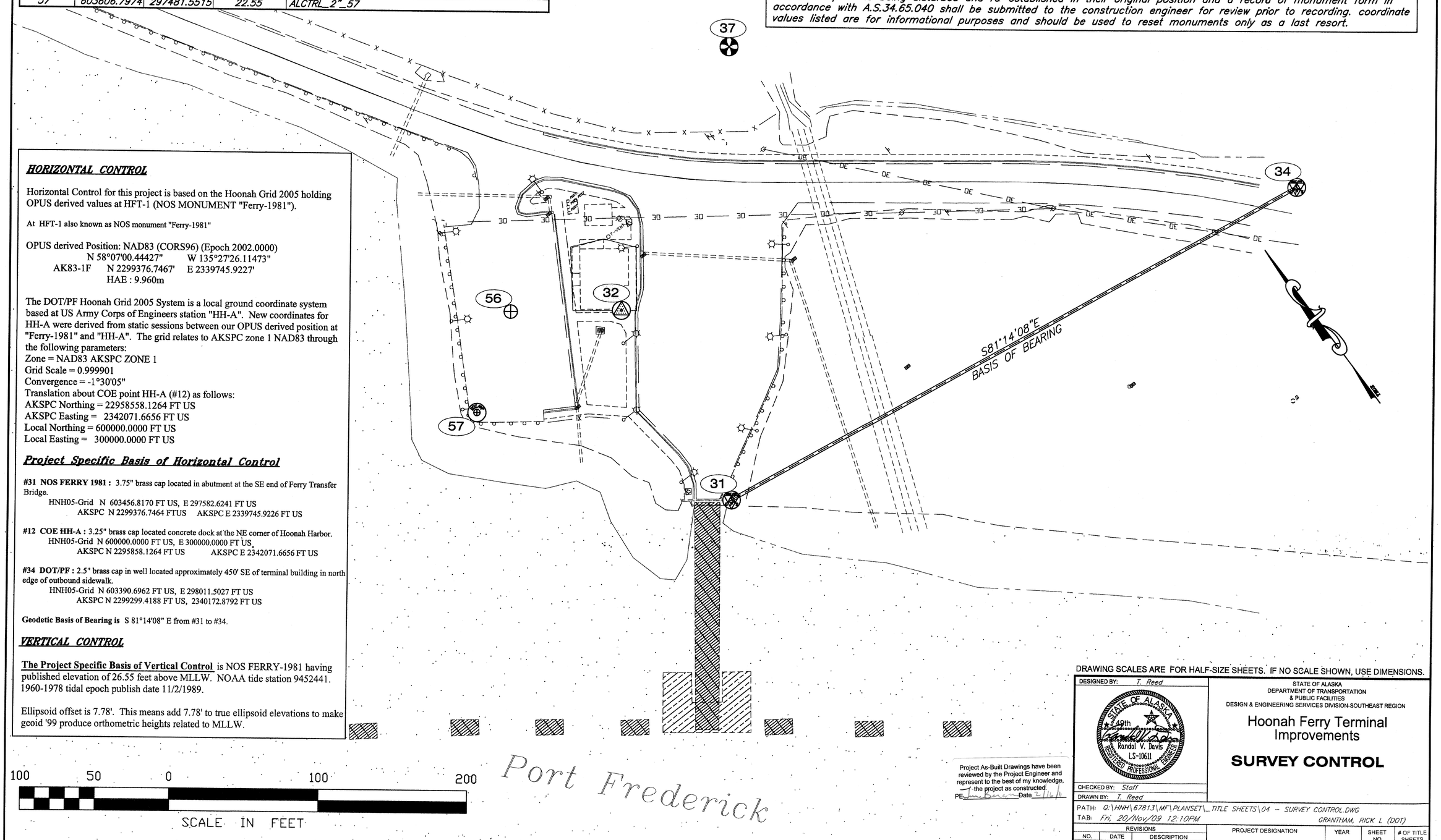
#34 DOT/PF : 2.5" brass cap in well located approximately 450' SE of terminal building in north edge of outbound sidewalk.
HNH05-Grid N 603390.6962 FT US, E 298011.5027 FT US
AKSPC N 2299299.4188 FT US, 2340172.8792 FT US

Geodetic Basis of Bearing is S 81°14'08" E from #31 to #34.

VERTICAL CONTROL

The Project Specific Basis of Vertical Control is NOS FERRY-1981 having published elevation of 26.55 feet above MLLW. NOAA tide station 9452441. 1960-1978 tidal epoch publish date 11/2/1989.

Ellipsoid offset is 7.78'. This means add 7.78' to true ellipsoid elevations to make geoid '99 produce orthometric heights related to MLLW.



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date _____

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: T. Reed
DRAWN BY: T. Reed
CHECKED BY: Staff

STATE OF ALASKA
Randal V. Davis
LS-10611
49th
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

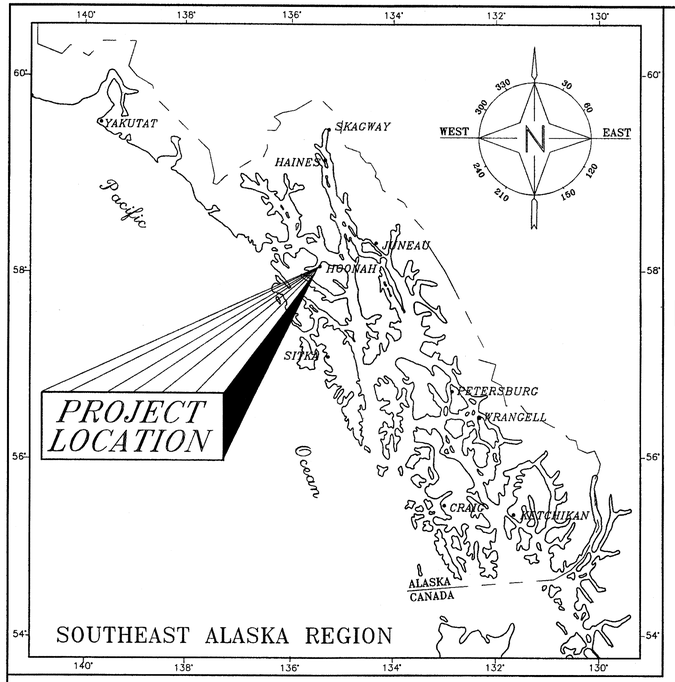
Hoonah Ferry Terminal Improvements

SURVEY CONTROL

PATH: O:\HNH\67813\MF\PLANSET_TITLE SHEETS\04 - SURVEY CONTROL.DWG
TAB: Fri, 20/Nov/09 12:10PM GRANTHAM, RICK L (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	# OF TITLE SHEETS
AK-04-0013 / 67813	2009	T4	4

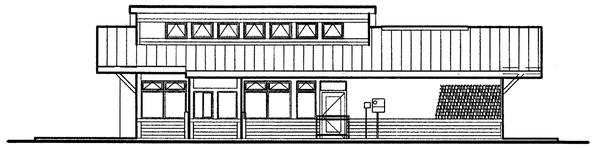


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

A PROJECT AT
HOONAH, ALASKA

HOONAH FERRY TERMINAL IMPROVEMENTS

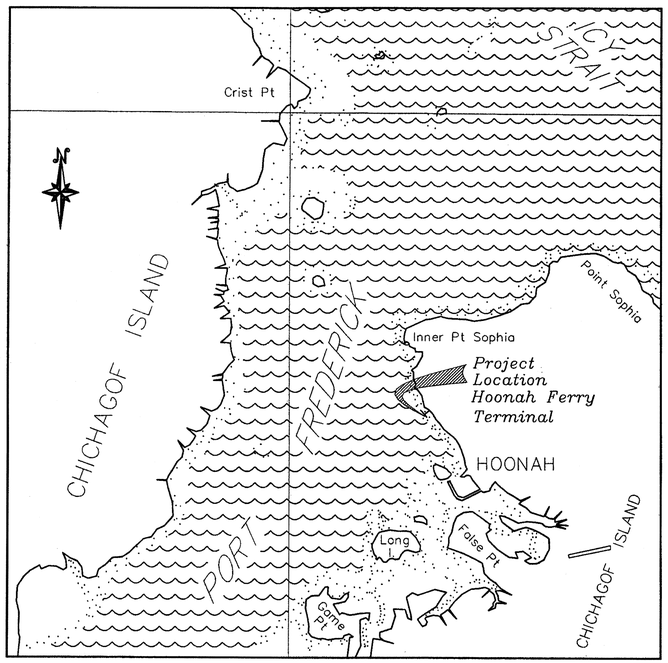
PROJECT NO. 67813 / AK-04-0013

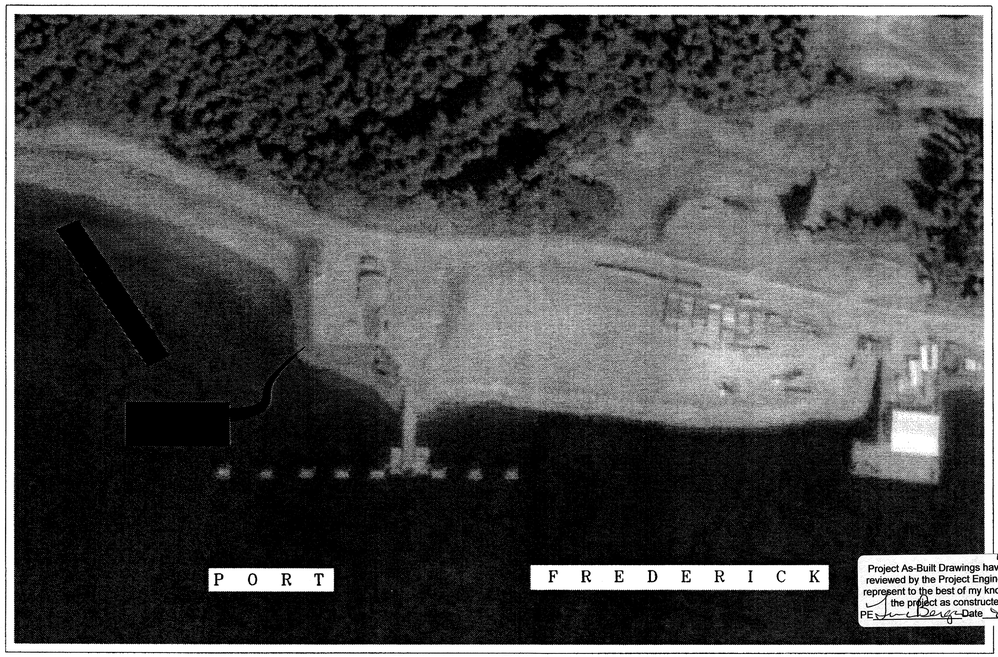


PLANSET B: Passenger Terminal Building, Water & Sewer Connections, & Ferry Terminal Electrical

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
1	Title Sheet	S0.1	Structural Notes
A0.1	Project Information	S0.2	Typical Details
A2.1	Floor Plan	S1.0	Foundation Plan
A2.2	Roof Plan	S1.1	Foundation Sections
A2.3	Schedules	S2.0	Roof Framing Plan
A3.1	Exterior Elevations	S2.1	Roof Sections
A3.2	Exterior Elevations	S2.2	Roof Details
A3.3	Building Sections	S2.3	Roof Details
A3.4	Building Section	S2.4	Wall Elevation and Details
A4.1	Enlarged Plans	S2.5	Roof Load Details
A5.1	Interior Elevations		
A5.2	Interior Elevations	M1.0	Schedules
A6.1	Reflected Ceiling Plan	M2.0	Underground Plan
A8.1	Exterior Details	M2.1	Plumbing Plan
A8.2	Exterior Details	M2.2	Ventilation & Heating Plan
A8.3	Exterior Details	M3.0	Details
A8.4	Details		
A9.1	Interior Details	E1	Elect Symbols & Misc. Details
A9.2	Interior Details	E2.1	Existing Electrical Site Plan
C1.0	Civil Site Plan	E2.2	New Electrical Site Plan
C1.1	Water & Sewer Service Profile	E3.1	Electrical Lighting Plan
C1.2	Sewer & Water System Details	E3.2	Elect Power & Systems Plan
C1.3	Sewer & Water System Details	E3.3	Electrical Heating Plan
		E4.1	Electrical One Line Diagram
		E4.2	Elect Telecomm One Line Dia.
		E5.1	Misc. Electrial Details
		E5.2	Misc. Electrical Details
		E5.3	Misc. Electrical Details
		E5.4	Misc. Electrical Details
		E6.1	Elect Panel & Lighting Sched.
		E6.2	Elect Panel Sched & Details





Existing Site Plan

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED _____ Date 11/19/09
Regional Reconstruction Engineer
Victor L. Winters, P.E.

APPROVED _____ Date 11/19/09
Director, S.E. Region
Gary L. Davis

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

_____ Date 10-28-13
Construction Project Manager

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 5/14/14

PROJECT NUMBER:
67813/AK-04-0013
DATE:
June, 2009
SHEET 1 OF 52

STATE OF ALASKA
49TH
Timothy Whiteley
No. A-9428
REGISTERED PROFESSIONAL ENGINEER
JUNE 8, 2009

SCALE : 1 = 1

Q:\VHS\75249\Phase-B\Sht01-Proj-Title-Index.dwg

U.S.S 4539
LOT 4
CITY OF HOONAH

U.S.S 1929
CITY OF HOONAH

CANNERY ROAD

7+00

8+00

PC = 8+27.14

PI = 10+65.46

11+00

FRONT STREET

ROW

30

25

NOTES:

1. For complete list of structures and quantities to be removed under Item 202 (1), refer to the Summary sheet & Specifications.
2. Refer to the Construction Sequencing Plan for limitations on scheduling demolition activities.

Existing guardrail, to be removed (see summary sheet)

Existing storm sewer pipe to be removed (see Note 1)

Remove existing 550 & 680 gal. UST's, see sheet 15

Existing Generator Bldg, to remain (Exterior renovation, see Misc. Details)

Existing 1200 gal. Wastewater Holding Tank to be removed, see sheet 15

Existing terminal building, to be removed

Existing storm sewer pipe to be removed (see Note 1)

Existing top of slope

Existing curb & gutter to be removed (see Note 1)

Existing riprap slope

Existing Paved Parking Area

Existing Light Pole to be removed (see E-sheets in Planset B)

Existing Paved Staging Area

Existing storm sewer pipe to be removed (see Note 1)

Existing toe of slope

Existing Transfer Bridge to remain

A.T.S. 29
PARCEL 1
CITY OF HOONAH
Marine Industrial Center

A.T.S. 29
STATE OF ALASKA
DOT&PF

PORT FREDERICK

LEGEND:	
Existing Rose bush	✕
Existing Mock Orange	✱
Existing Maple tree	□
Existing Mountain Ash	○

Existing Site Plan

0 50 100

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/6/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

EXISTING SITE PLAN

PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\02 - EXISTING SITE PLAN.DWG
TAB: Tue, 17/Nov/09 03:58PM OSBURN, JOEL D (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	2	27

U.S.S 4539
LOT 4
CITY OF HOONAH

U.S.S 1929
CITY OF HOONAH

CANNERY ROAD

FRONT STREET

"O"–Line

"P"–Line

"S"–Line

7+00

8+00

9+00

10+00

11+00

12+00

PC = 8+27.71

PT = 10+65.46

PC = 12+08.46

New culvert and storm drain (refer to Summary Sheets & ESCP sheet)

Standard curb & gutter (refer to Standard Drawings & Miscellaneous Details)

New 300 gal. AST, see sheet 15–16 for details

Generator Shed Renovation, see Sheet 21

15' Double Swing Gate

Uplands Expansion, see Typical Sections

New 500–gal. AST for Heating Oil, see M–sheets in Planset B

New Storage Shed, see sheets 17–18

New lift station, see Sheets 13–14

Sewer main extension, see Sheets 11–12

SECURITY FENCE AND GATE

A.T.S. 29
PARCEL 1
CITY OF HOONAH
Marine Industrial Center

EELGRASS

New Terminal Building, refer to Planset B

Covered Walkway Structure, see sheet 20

4' Class IV Riprap

Begin Riprap Apron Sta. "P" 11+40.33, 107' RT

1.5:1

Class IV Riprap Apron

ADDITIONAL New–Pursers Shelter, see sheet 19

ADJUSTMENT MODIFICATION

NEW 15' Double Swing Gate, see sheet 24

PURSERS SHELTER

Existing Transfer Bridge

End Riprap Apron Sta. "P" 13+06.59, 264' RT

PORT FREDERICK

A.T.S. 29
STATE OF ALASKA DOT&PF

Site Plan

0 50 100

LEGEND:

- Pay limits of uplands expansion
- Riprap slope arrow
- Transplanted Rose bush
- Transplanted Mock Orange
- Transplanted Maple tree
- Transplanted Mountain Ash

NOTES:

1. Striping and signing not shown for clarity. Refer to sheets 25–26 for details.
2. Transplant existing trees and shrubs according to Section 621 in coordination with the Hoonah Terminal Manager.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff
PATH: O:\HNH\67813\WF\PLANSET_PLANSET A\03 – PROPOSED SITE PLAN.DWG
TAB: Tue, 17/Nov/09 03:45PM OSBURN, JOEL D (DOT)

STATE OF ALASKA
Joel D. Osburn
CE–11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

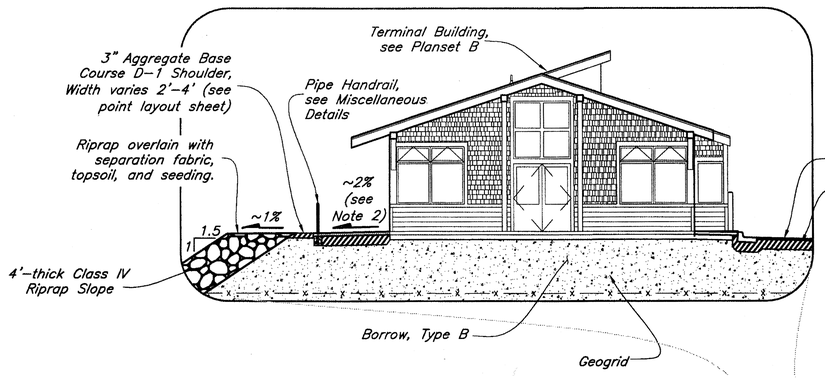
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

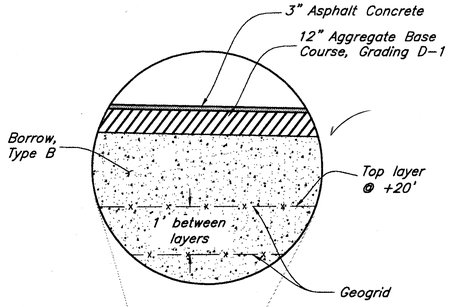
Hoonah Ferry Terminal Improvements

PROPOSED SITE PLAN

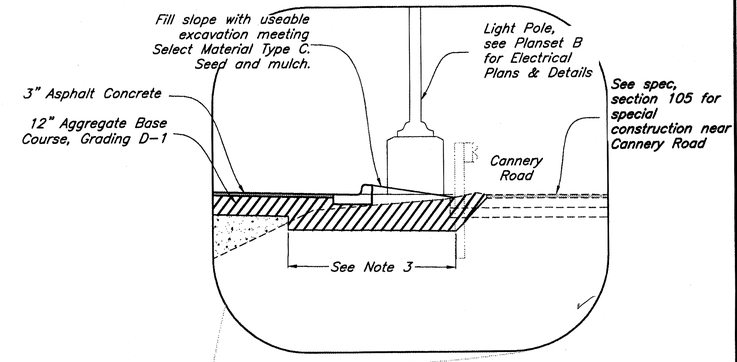
REVISIONS		
NO.	DATE	DESCRIPTION

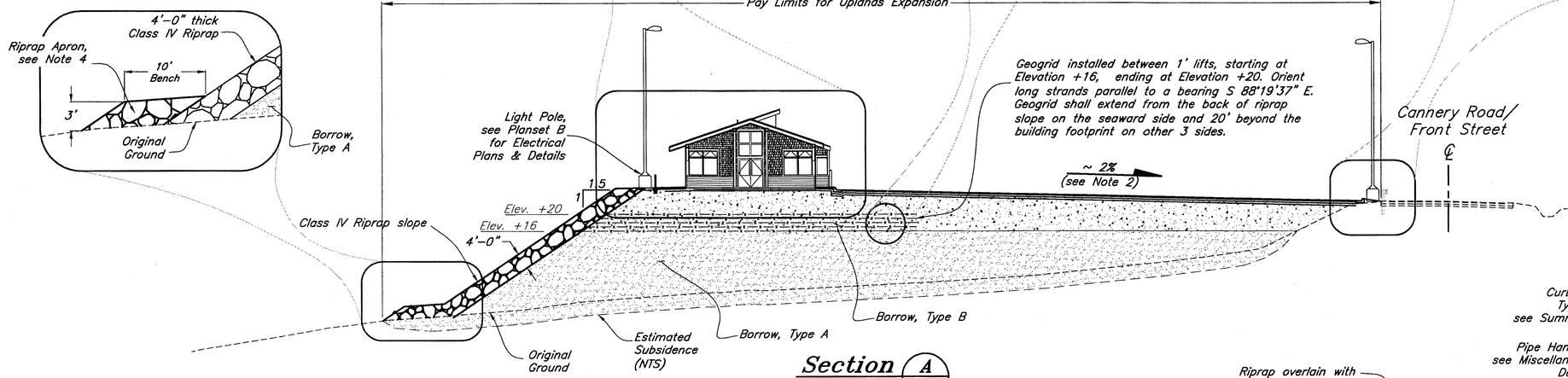
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	3	27



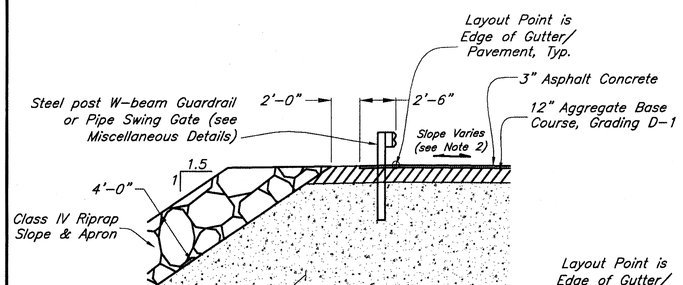


Typical Pavement/ Structural Section

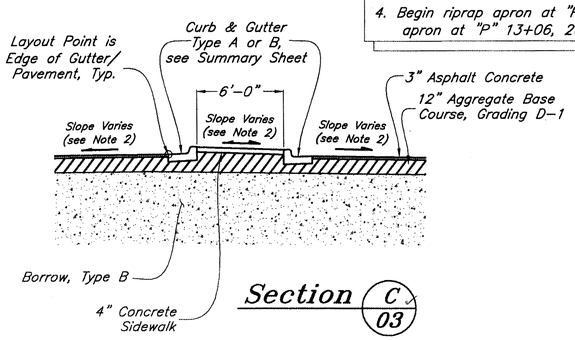




Section A 03



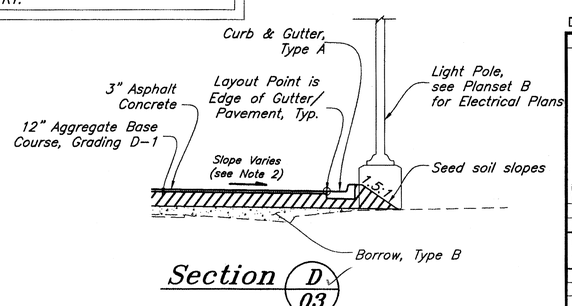
Section B 03



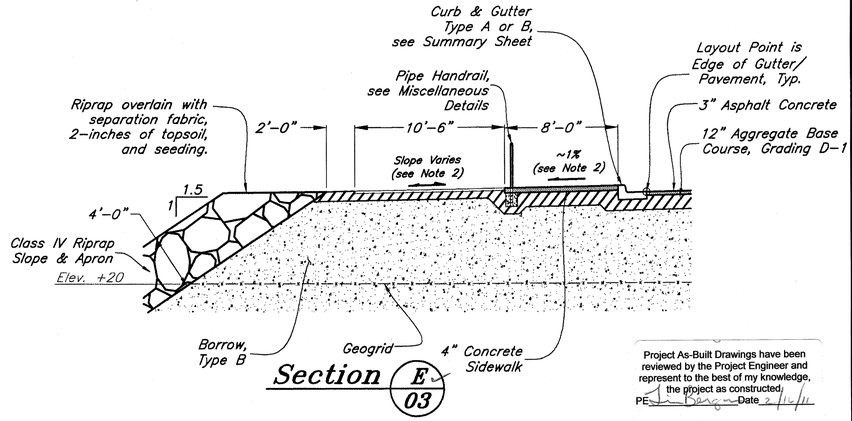
Section C 03

NOTES:

1. See Planset B for details on Terminal Building foundation design.
2. Refer to Site Layout Plan for surface grading information. Sidewalk grading varies depending on edge of gutter layout points. Pavement grading varies based on slope lines and layout points.
3. Sub-ex. 24" below finish grade at transition to roadway and where new pavement will overlay previously unpaved ground. Sub-excavation is subsidiary to Item 203 (19).
4. Begin riprap apron at "P" 11+40, 107' RT. End riprap apron at "P" 13+06, 264' RT.



Section D 03



Section E 03

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/14/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

TYPICAL SECTIONS

PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\04 - TYPICAL SECTION.DWG
TAB: Mon, 16/Nov/09 10:55AM OSBURN, JOEL D (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	4	27

"O" LINE ALIGNMENT TABLE

POINT DATA				TANGENT DATA		CURVE DATA			
DESC	STATION	NORTHING	EASTING	BEARING	DISTANCE	CHORD LENGTH	CHORD BEARING	RADIUS	LENGTH
~~BOP~~ CORRECTED	6+00	603962.30	297468.30	S 31° 16' 50" E	214.26				
PC	8+14.26	603779.19	297579.54			236.88	S 42° 12' 16" E	625	238.32
PT	10+52.58	603603.72	297738.67	S 53° 07' 41" E	142.94				
PC	11+95.52	603517.95	297853.02			200.97	S 46° 12' 37" E	917.7	201.38
PT	13+96.90	603378.88	297998.10	S 40° 24' 06" E	176.75				
EOP	15+73.65	603244.28	298112.66						

17.34' OFF

"P" LINE ALIGNMENT TABLE

POINT DATA				TANGENT DATA		CURVE DATA			
DESC	STATION	NORTHING	EASTING	BEARING	DISTANCE	CHORD LENGTH	CHORD BEARING	RADIUS	LENGTH
CORRECTED PI	~~"P" 10+00 = "O" 7+10.63~~	603878.77	297519.04	S 88° 19' 37" E	165.20				
PC	10+97.38	603828.21	297435.82			63.64	S 13° 43' 10" W	45	70.69
PT	11+68.06	603766.38	297420.73	S 31° 16' 50" E	46.60				
PC	12+14.66	603726.56	297444.93			19.10	S 59° 48' 13" E	20	19.91
PT	12+34.58	603716.95	297461.43	S 88° 19' 37" E	165.20				
PI	"P" 13+99.78 = "O" 7+10.63	603712.13	297626.56						

"S" LINE ALIGNMENT TABLE

POINT DATA				TANGENT DATA		CURVE DATA			
DESC	STATION	NORTHING	EASTING	BEARING	DISTANCE	CHORD LENGTH	CHORD BEARING	RADIUS	LENGTH
PI	"S" 10+00 = "O" 10+16.99	603634.28	297701.06	S 38° 03' 45" W	212.24				
PI	12+12.24	603467.17	297570.21						

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/10

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

CHECKED BY: K. Miller
DRAWN BY: Staff
PATH: Q:\HNH\67813\MF\PLANSET_PLANSET A\05 - ALIGNMENT TABLES.DWG
TAB: Wed, 18/Nov/09 02:42PM BENNETT, BERT W (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

ALIGNMENT TABLES

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	5	27

DRAINAGE STRUCTURE SUMMARY

Struct. No.	Station	Offset	Struct. Funct.	Struct. Type	Grate/Lid Elevation	Remarks
S-1	"P" 13+35.1	18.3' LT	INLET	A	23.0	
S-2	"P" 13+07.8	60.7' LT	INLET	A	22.70	
S-3*	"P" 10+39.0	23.6' LT	INLET	1	22.40	SNOUT 30R ✓
S-4	"P" 11+60.0	38.3' RT	INLET	1	24.06	SNOUT 24R
S-5	"P" 11+62.9	26.4' RT	INLET	A	22.90	
S-6	"S" 10+48.0	78.8' RT	INLET	1	22.70	OIL/H2O SEPARATOR
S-7*	"S" 10+68.4	86.5' RT	INLET	1	23.14	OIL/H2O SEPARATOR
ES-1	"S" 10+52.8	54.8' LT	INLET	A	22.80	Existing Inlet

*Refer to Note 2, sheet 6 for standard sump dimensions. Special sumps for structures S-3 & S-7 shall be 30".

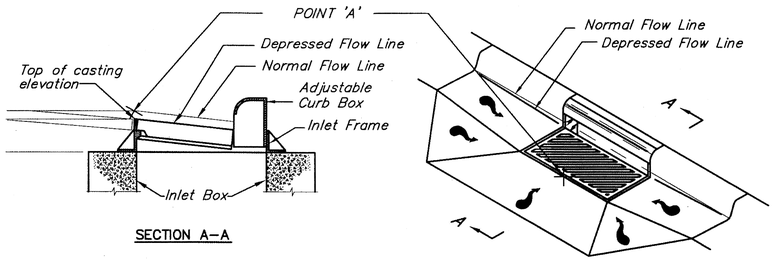
DRAINAGE STRUCTURE SUMMARY, rev. 2-3-10

Struct. No.	Station	Offset	Struct. Funct.	Struct. Type	Grate/Lid Elevation	Remarks
S-1	"P" 13+35.1	18.3' LT	INLET	A	23.0	
S-2	"P" 13+07.8	60.7' LT	INLET	A	22.70	
S-3*	"P" 10+39.0	23.6' LT	INLET	1	22.40	SNOUT 30R ✓
S-4	"P" 11+60.0	38.3' RT	INLET	1	24.06	SNOUT 24R
S-5	"P" 11+62.9	26.4' RT	INLET	A	22.90	
S-6	"S" 10+48.0	78.8' RT	INLET	1	22.70	
S-7*	"S" 10+68.4	86.5' RT	INLET	1	23.14	SNOUT 30R ✓
ES-1	"S" 10+52.8	54.8' LT	INLET	A	22.80	Existing Inlet

*Refer to Note 2, sheet 6 for standard sump dimensions. Special sumps for structures S-3 & S-7 shall be 30".

PIPE SUMMARY

Pipe Label	Pipe Size	From Structure	Inlet Inv.	To Structure	Location	Outlet Inv.	Cen-Cen Length	Pipe Slope	Remarks
P-1	18" CPP	S-1	19.00	S-2		17.50	51	2.97%	
P-2a	18" CPP	S-2	17.16	S-3		17.07	5	1.95%	Connect to end of existing 18" CAP with pipe band
P-2b	18" CPP	S-3	17.00	S-4		16.72	74	0.38%	
P-3	24 CPP	S-3	16.68		"P" 10+39, 61'RT	16.20	85	0.57%	
P-4	18" CPP	S-4	20.50		"P" 11+63, 75'RT	20.00	35	1.44%	
P-5	18" CPP	S-5	19.35	S-6		19.19	45	0.36%	
P-6	18" CPP	S-6	19.15	S-7		19.04	32	0.34%	
P-7	24" CPP	S-7	19.00		"P" 12+12, 141'RT	18.50	153	0.33%	



SECTION A-A

REMOVAL OF GUARDRAIL SUMMARY

Section	Start Station	Start Offset	End Station	End Offset	Remarks
1	"O" 5+63	15.5' RT	"O" 7+32	15' RT	
2	"O" 8+44	15' RT	"O" 8+65	30' RT	
3	"P" 13+13	5' LT	"S" 11+62	111' RT	
4	"S" 10+31	49' LT	"S" 12+12	9' LT	

GUARDRAIL SUMMARY

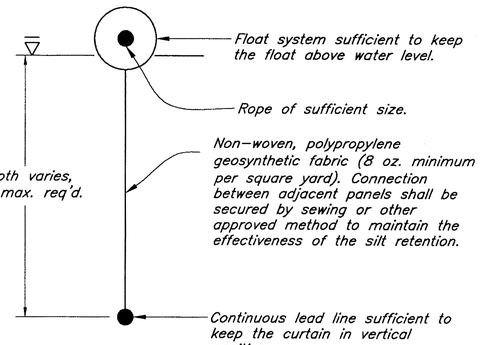
Section	Start Station	Start Offset	End Station	End Offset	Length	Remarks
1	"O" 6+63	15.5' RT	"P" 10+52	34.' RT	69	Connect to existing.
2	"O" 10+57	39' RT	"P" 11+20	51' RT	87	
3	"O" 7+31	17' RT	–	–		Install CRT at end of existing.
4	"O" 8+45	15' RT	"O" 8+75	15' RT	30	Connect to existing. CRT at end.
5	"S" 12+12	7' RT	"S" 12+12	25' RT	21	
6	"S" 12+08	9' LT	"S" 12+08	57 LT	51	

CURB & GUTTER SUMMARY

Section	Start Station	Start Offset	End Station	End Offset	Struct. Type	Length	Remarks
1	"O" 7+30	15' RT	"O" 8+78	15' RT	B	148	
2	"P" 11+20	51' RT	"P" 12+04	7' RT	A	84	
3	"P" 12+04	7' RT	"S" 12+12	26' RT	B	301	
4	"S" 12+08	57' LT	"S" 10+14	58' LT	A	274	
5	"P" 12+52	7.5' RT	"P" 13+78	7.5' RT	B	126	
6	"P" 13+78	7.5' RT	"P" 12+52	7.5' RT	A	412 ✓	

NOTES:

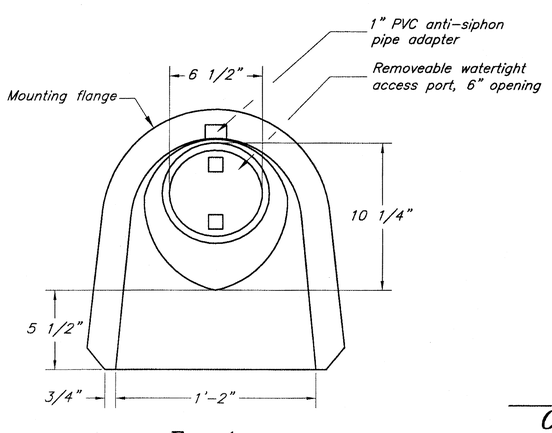
1. Station and offset for curb inlets are given to the edge of pavement. Station, offset and elevations for field inlets are given to center of grate/lid.
2. Curb grate elevations are given to the edge of pavement without the standard depression. (See Point 'A' below).
3. All storm drain manholes are required to have an 18-inch sump. Manholes with petroleum seperators shall have a 24-inch sump.
4. Invert elevations are given to the bottom of pipe I.D.
5. Oil-water separator shown is "SNOUT' by BMP Inc. See section 604 of the specifications for more information on oil-water separators.



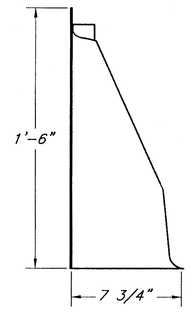
Typical Section
Silt Containment Boom

Silt Containment Boom Notes:

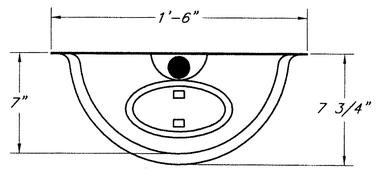
1. Before ground disturbing activities, including excavation or embankment work, the Contractor shall install a silt containment boom to isolate the worksite. The boom shall completely contain the site during all dredging activities.
2. The horizontal alignment of the silt boom shown on Sheet 27 is approximate only. The Contractor may utilize any reasonable alignment such that the site remains enclosed in accordance with the environmental commitments (reference Specifications) and otherwise contained within the project property limits. The silt boom may not interfere with access and use of the existing City of Hoonah Marine Industrial Center (HMIC) unless otherwise authorized by the City of Hoonah and the Engineer. Alternative silt boom alignments and length of silt boom from that shown on the plans may therefore be required depending on the Contractors work schedule.
3. The boom shall be maintained 24 hours per day by the Contractor and upon removal, shall be the property of the Contractor.
4. 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 sufficently secured to withstand wind, seas, propeller wash, and tidal forces reasonably expected at the site.
5. The boom shall remain in place until all earth disturbing activities are complete and water quality is deemed acceptable by the Engineer.



Front



Side



Plan

Typical Details
Oil-Water Separator

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/10

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA, 49th, Joel P. Osburn, CE-11014, REGISTERED PROFESSIONAL ENGINEER
11-19-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

MISCELLANEOUS SUMMARIES

PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\06 - MISC SUMMARIES.DWG
TAB: Wed, 18/Nov/09 02:45PM
BENNETT, BERT W (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AK-04-0013 / 67813	2009	6	27

U.S.S 4539
LOT 4
CITY OF HOONAH

U.S.S 1929
CITY OF HOONAH

CANNERY ROAD

FRONT STREET

A.T.S. 29
STATE OF ALASKA DOT&PF

A.T.S. 29
PARCEL 1
CITY OF HOONAH
Marine Industrial Center

PORT FREDERICK

PRIMARY LIMITATIONS OF WORK:

The existing building and terminal parking area shall remain essentially intact and uninterrupted until Item 203(19) Uplands Expansion has been completed to subgrade elevation.

All truck hauling operations for import fill and rock materials, and excavation for underground utilities on and along Cannery Road/ Front Street ROW shall be completed by May 31, 2010.

No in-water work allowed from March 15 – June 15. Fill materials may not be placed in the water unless the tide level is +5-feet MLLW or lower and the floating silt boom and other erosion control measures as may be required by the contract are in place (see Appendix B of the specifications).

CONSTRUCTION STAGING CONSIDERATIONS

The Contractor shall stage/schedule the project such that vehicle parking and staging areas and terminal building, either existing, permanent or temporary, are provided at all times. The Contractor shall prepare a detailed CPM schedule per Section 643 which shall include a detailed outline on how terminal building, parking & staging areas will be provided for AMHS operations and safe public use during all construction activities. The Contractor shall also prepare a Temporary Terminal Building and Staging/Parking Area Plan, per Section 690, when existing operational facilities will be closed during construction activities.

The existing parking area and terminal building shall not be impacted until the new fill expansion has been completed to subgrade. The existing terminal building and staging/parking areas shall not be disrupted or otherwise impacted during all scheduled vessel sailings unless temporary or new replacement facilities are provided.

Temporary facilities shown on the plans have been tentatively approved by the City of Hoonah, but no permissions have been granted for use of the property. Coordinate & obtain written approval from the City of Hoonah prior to use of their property, per subsection 107-1.02. The Contractor may revise the proposed parking or building locations from those noted on the Plans as deemed necessary and otherwise approved by the Engineer. See Section 690 for more information on Temporary facilities.

Public restroom facilities such as portapotties shall be provided. Provide at least one male and one female portable restroom. Maintain and clean daily.

Existing Terminal Building

Existing Parking Area

Existing Staging Area

Temporary Parking, 22 spaces

TEMP

POWER & PHONE | INTERNET

Temporary Fencing

PROJECT OFFICE

Temporary AMHS Operations Area. See Notes.

110' x 2 lanes = 220 lane-feet temp. staging

27'

10'

20'

100'

10'x40' Temporary Terminal Building

LEGEND

- Phase 1 – Demolition, Staging & Construction Existing Parking Area
- Phase 2 – Demolition, Staging & Construction Existing Staging Area
- Phase 3 – Remove Existing Terminal Building

Note: Construction phases shown by hatched areas are for conceptual view only. Contractor shall sequence all activities in CPM Schedule per Section 646.

Construction Sequencing Plan

0 50 100

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 11-20-09

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff
PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\07 - CONST SEQ PLAN.DWG
TAB: Fri, 20/Nov/09 09:14AM OSBURN, JOEL D (DOT)

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-20-09

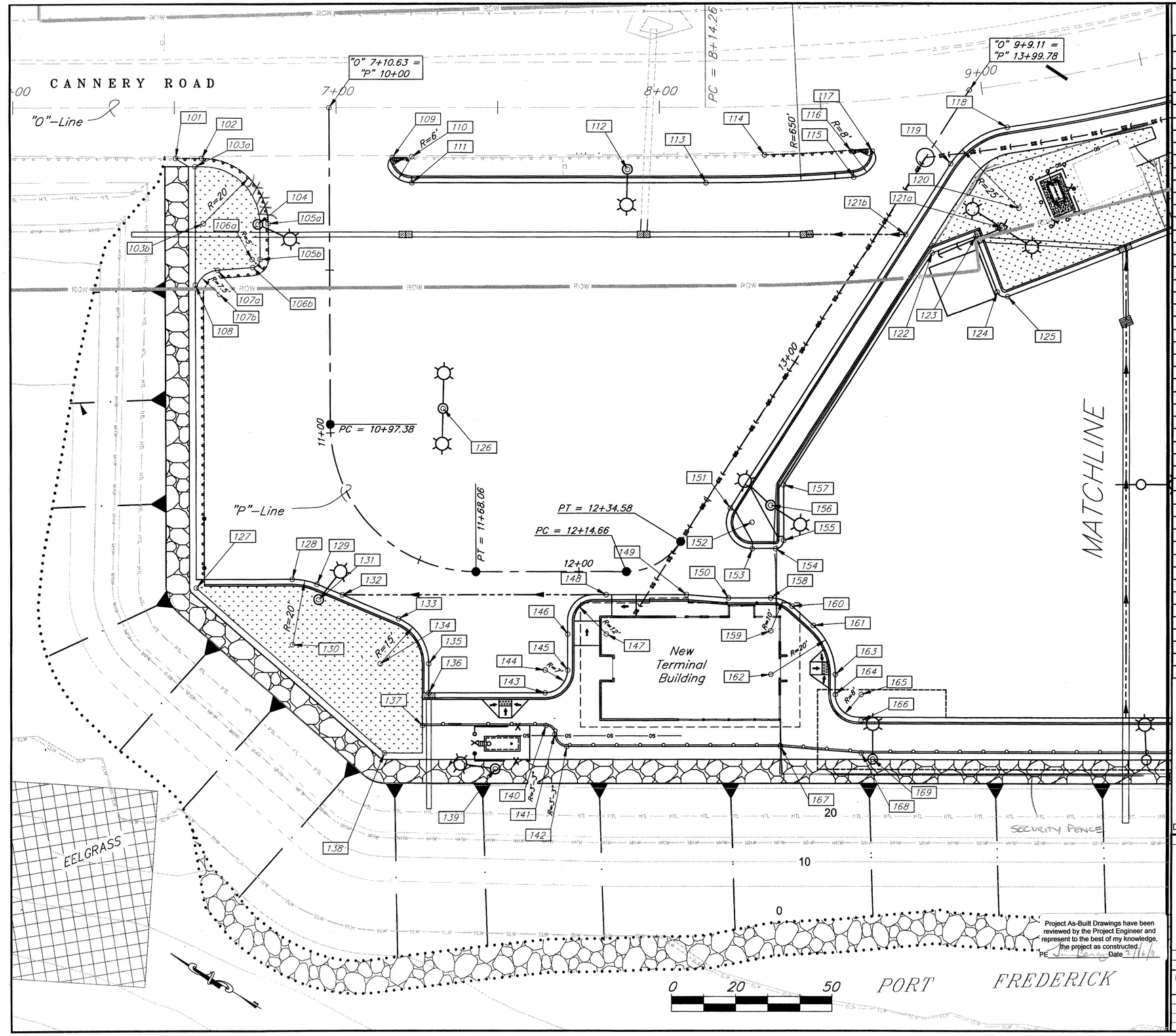
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

CONSTRUCTION SEQUENCING PLAN

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	7	27



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 2/16/11

POINT LAYOUT TABLE

Point	Station	Offset	Elevation	Description
101	'O' 6+63.16	15.59 RT	22.83	Match Existing Pavement Edge
102	'O' 6+71.15	15.60 RT	22.70	Match Existing Guardrail
103a	'O' 6+71.15	18.10 RT	22.80	Pavement Edge
103b	'O' 10+35.59	39.00 RT	23.11	Radius Pt.
104	'O' 10+35.79	22.12 RT	0.00	Light Pole
105a	'O' 10+35.59	21.50 RT	23.00	Pavement Edge
105b	'O' 10+46.59	21.50 RT	23.00	Pavement Edge
106a	'O' 10+46.59	24.00 RT	–	Radius Pt.
106b	'S' 10+49.08	23.80 RT	23.05	Pavement Edge
107a	'S' 10+49.97	34.62 RT	23.30	Pavement Edge
107b	'S' 10+57.44	34.00 RT	–	Radius Pt.
108	'S' 10+57.44	41.50 RT	23.40	Pavement Edge
109	'O' 7+30.18	15.34 RT	22.79	Pavement Edge
110	'O' 7+36.18	15.09 RT	–	Radius Pt.
111	'O' 7+36.18	23.09 RT	22.75	Pavement Edge
112	'O' 8+02.89	18.97 RT	–	Light Pole
113	'O' 8+27.15	23.09 RT	23.10	PC_Pavement Edge
114	'O' 8+44.97	14.88 RT	23.37	Match Existing Guardrail
115	'P' 8+71.38	23.05 RT	23.36	Pavement Edge
116	'P' 8+71.19	15.05 RT	–	Radius Pt.
117	'P' 8+77.04	15.19 RT	23.50	Pavement Edge
118	'P' 9+18.94	12.97 RT	23.70	Pavement Edge
119	'P' 9+00.78	21.72 RT	23.80	Pavement Edge
120	'P' 13+77.70	32.50 RT	–	Radius Pt.
121a	'P' 13+69.69	31.40 RT	–	Light Pole
121b	'P' 13+51.79	7.50 RT	23.20	Pavement Edge_Low Point
122	'S' 10+27.34	135.09 RT	23.50	Pavement Edge
123	'S' 10+27.27	120.74 RT	22.90	Pavement Edge
124	'S' 10+45.66	120.66 RT	23.10	Pavement Edge
125	'S' 10+48.15	118.15 RT	23.10	Pavement Edge
127	'P' 11+20.87	54.80 RT	25.13	Pavement Edge
128	'P' 11+28.50	28.96 RT	25.05	Pavement Edge
129	'P' 11+32.43	24.30 RT	25.00	Pavement Edge
130	'P' 11+36.41	43.07 RT	–	Radius Pt.
131	'P' 11+34.76	27.30 RT	–	Light Pole
132	'P' 11+37.85	21.42 RT	25.20	Pavement Edge
133	'P' 11+50.75	18.86 RT	25.00	Pavement Edge
134	'P' 11+50.68	33.86 RT	–	Radius Pt.
135	'P' 11+59.13	29.51 RT	24.88	Pavement Edge
136	'P' 11+60.08	38.32 RT	24.70	Pavement Edge
137	'P' 11+59.99	48.51 RT	–	Back of Sidewalk
138	'P' 11+55.65	59.45 RT	25.50	Edge of Shoulder
139	'P' 11+73.92	60.37 RT	–	Light Pole
140	'P' 11+89.68	47.03 RT	25.70	Back of Sidewalk
141	'P' 11+92.42	49.76 RT	25.85	Back of Sidewalk
142	'P' 11+96.15	53.50 RT	26.00	Back of Sidewalk
143	'P' 11+89.42	37.03 RT	25.10	Pavement Edge
144	'P' 11+89.42	30.03 RT	–	Radius Pt.
145	'P' 11+96.42	30.03 RT	25.24	Pavement Edge

LEGEND:

High/Low Elevation Gradient

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn

STATE OF ALASKA
JOEL D. OSBURN
CE-11014
REGISTERED PROFESSIONAL ENGINEER

11-19-09

CHECKED BY: K. Miller

DRAWN BY: Staff

PATH: Q:\HNH\67813\MF\PLANSET_PLANSET A\08_9 - SITE LAYOUT PLAN.DWG

TAB: Thu, 19/Nov/09 01:38PM OSBURN, JOEL D (DOT)

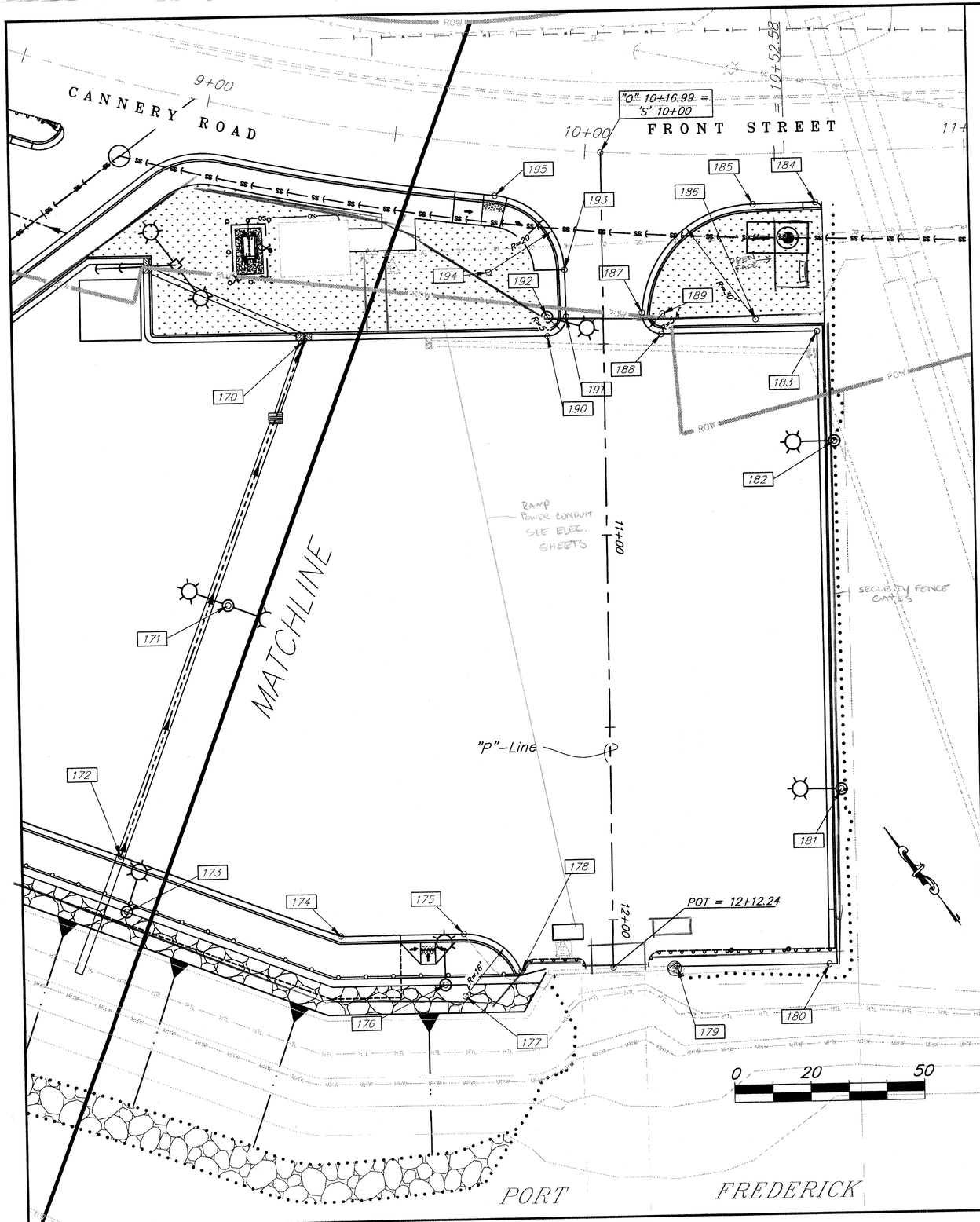
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

SITE LAYOUT PLAN

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	8	27



POINT LAYOUT TABLE

Point	Station	Offset	Elevation	Description
146	'S' 11+96.43	15.00 RT	25.54	Pavement Edge
147	'S' 12+04.43	15.00 RT	–	Radius Pt.
148	'S' 12+04.43	7.00 RT	25.70	Pavement Edge
149	'S' 12+26.66	12.71 RT	25.70	Pavement Edge
150	'S' 12+31.60	22.27 RT	25.70	Pavement Edge
151	'S' 12+51.58	7.50 RT	25.45	Pavement Edge
152	'S' 12+51.58	15.50 RT	–	Radius Pt.
153	'S' 12+44.94	19.96 RT	25.45	Pavement Edge
154	'S' 12+48.80	25.92 RT	25.40	Pavement Edge
155	'S' 12+52.26	26.66 RT	25.35	Pavement Edge_PC
156	'S' 12+59.04	17.51 RT	–	Light Pole
157	'S' 12+66.39	17.50 RT	25.11	Pavement Edge
158	'S' 12+35.41	32.77 RT	25.90	Pavement Edge
159	'S' 12+32.00	38.70 RT	–	Radius Pt.
160	'S' 12+36.91	39.68 RT	25.90	Pavement Edge
161	'S' 11+21.03	210.07 RT	25.80	Pavement Edge
162	'S' 11+30.39	227.74 RT	–	Radius Pt.
163	'S' 11+37.45	209.02 RT	25.75	Pavement Edge
164	'S' 11+43.19	211.19 RT	25.72	Pavement Edge
165	'S' 11+46.01	203.71 RT	–	Radius Pt.
166	'S' 11+52.21	207.11 RT	25.70	Pavement Edge
167	'S' 11+52.16	232.76 RT	26.20	Back of Sidewalk
168	'S' 11+62.86	210.06 RT	26.40	Back of Sidewalk
169	'S' 11+65.92	207.39 RT	–	Light Pole
170	'S' 10+47.98	78.80 RT	22.70	Pavement Edge
171	'S' 11+16.81	99.77 RT	–	Light Pole
172	'S' 11+81.48	129.47 RT	25.60	Pavement Edge
173	'S' 11+96.03	127.73 RT	–	Light Pole
174	'S' 12+03.29	71.63 LT	25.90	Pavement Edge
175	'S' 12+03.15	39.23 LT	26.00	Pavement Edge
176	'S' 13+12.71	223.42 LT	–	Light Pole
177	'S' 13+15.12	228.92 LT	–	Radius Pt.
178	'S' 13+30.68	232.66 LT	26.30	Pavement Edge
179	'S' 12+12.07	16.18 LT	26.50	Pavement Edge
180	'S' 12+12.10	56.97 LT	25.40	Pavement Edge
181	'S' 11+66.74	60.78 RT	–	Light Pole
182	'S' 10+76.33	60.31 RT	–	Light Pole
183	'S' 10+47.37	56.21 RT	22.96	Pavement Edge
184	'S' 10+74.81	12.97 RT	24.39	Pavement Edge
185	'S' 10+56.87	13.00 RT	24.40	Pavement Edge
186	'S' 10+43.99	40.17 RT	–	Radius Pt.
187	'S' 10+41.85	10.25 RT	23.60	Pavement Edge
188	'S' 10+47.55	15.11 RT	23.45	Pavement Edge
189	'S' 10+42.15	15.66 RT	–	Radius Pt.
190	'S' 10+47.69	14.81 RT	23.40	Pavement Edge
191	'S' 10+42.61	9.83 RT	23.60	Pavement Edge
192	'S' 10+42.69	14.83 RT	–	RP_Light Pole
193	'S' 10+30.36	10.03 RT	23.70	Pavement Edge
194	'S' 10+30.74	30.03 RT	–	Radius Pt.
195	'S' 9+90.16	13.00 RT	24.20	Pavement Edge

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 12/6/11

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff
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TAB: Thu, 19/Nov/09 01:38PM OSBURN, JOEL D (DOT)

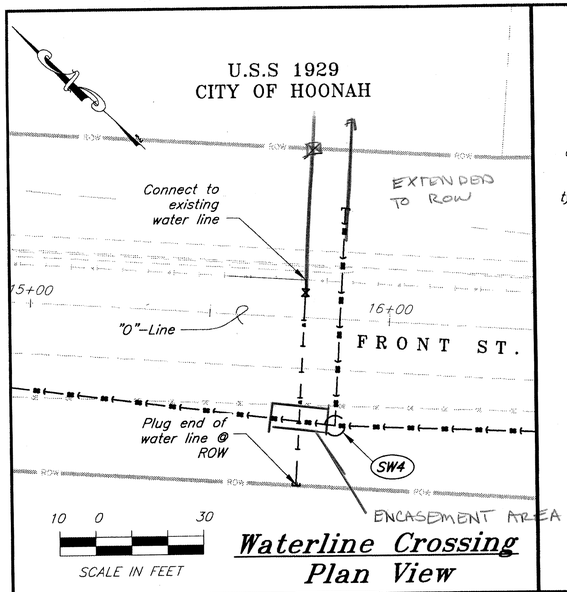
STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

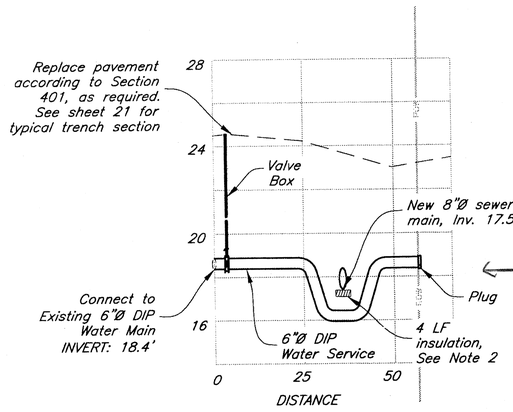
Hoonah Ferry Terminal Improvements

SITE LAYOUT PLAN

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AK-04-0013 / 67813	2009	9	27

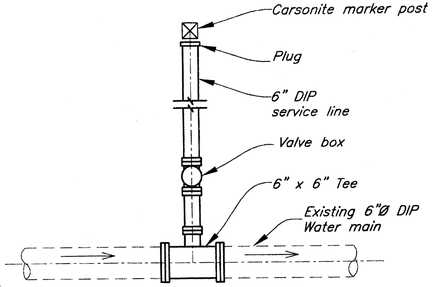


Waterline Crossing Plan View

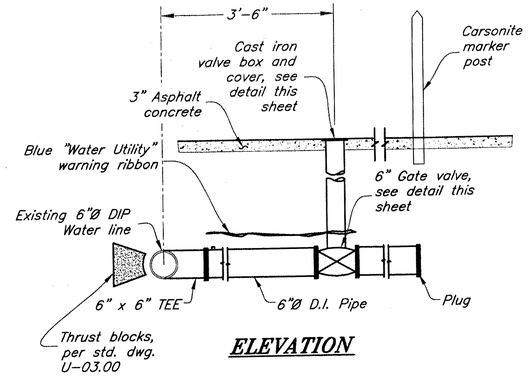


Waterline Crossing Profile View

ENCASED SEWER LINES WITH LARGER DIAMETER PVC AT CROSSINGS SEE CHANGE ORDER # 3 BACKUP



PLAN

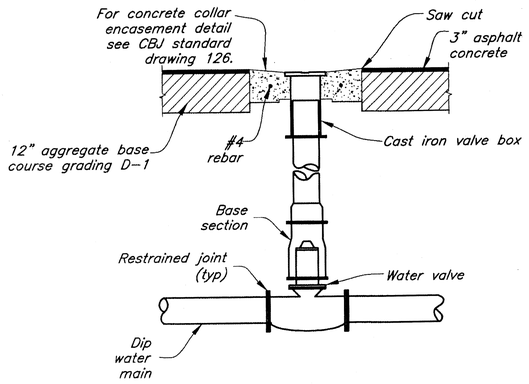


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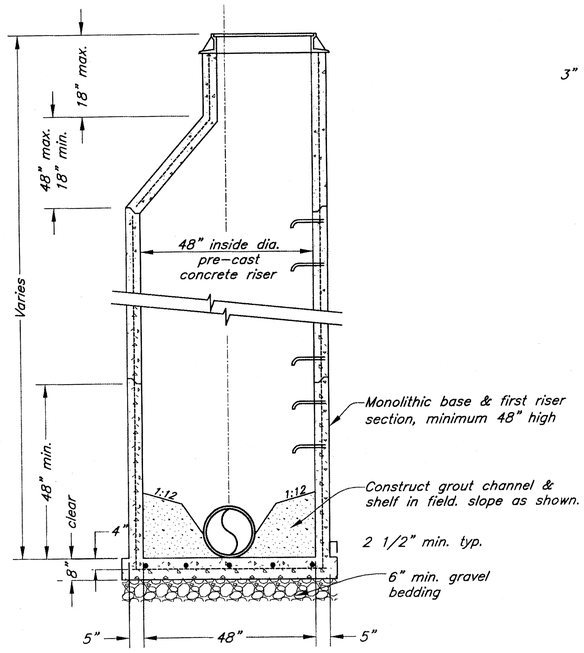
Water Service Connection Detail

WATER SERVICE CONNECTION NOTES:

1. Existing utility locations shown in the plans are approximate. Contact the respective local utility office for field locates prior to excavation work.
2. Provide 2'-wide, 4"-thick rigid foam insulation w/ staggered seams, where minimum depth of cover cannot be provided and between pipe crossings.
3. Service connect shall be 6"Ø @ "0" Sta. 15+76, 10' LT. Cap end of service line @ "0" Sta. 15+76, 18' RT.
4. For connecting to existing water mains, the Contractor shall use a mechanical joint tee and a mechanical joint cutting-in-sleeve or a cast iron coupling.
5. All valve clusters consisting of a tee and one or more valves shall be monolithically restrained.
6. Two measured distances from end of waterline to permanent objects shall be noted on as-built plans.
7. See CBJ standard 407 for valve box details not shown.
8. Valve box riser extensions shall be ductile iron pipe.



Valve Box Detail

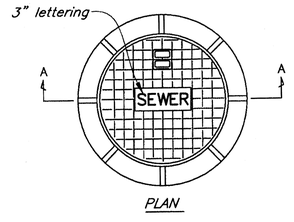


Standard Sewer Manhole Detail

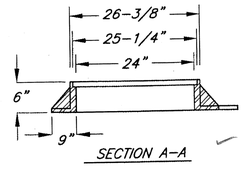
NOTES:

1. See CBJ standard details 203 and 209 for manhole and pipe penetrations details not shown.
2. Precast sections shall be equipped with picking eyes, lift holes not permitted.
3. All manhole joints shall be sealed with membrane wrap per CBJ std. 203.
4. Install grouted flow channel inside manholes.
5. Min. 12" separation between wall penetrations.
6. Min. 50% uninterrupted wall area on any horizontal plane.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11



PLAN



SECTION A-A

FRAME & COVER NOTES:

1. Cover and frame shall be heavy duty and rated for HS25 loading. Minimum total weight shall be 360 pounds.
2. Cover and sealing gasket shall be "NEENAH" self sealing lid, or approved equal. Lockdown bolts will not be allowed.
3. Cover shall be machined to fit watertight frame. cover shall have the word "SEWER" cast in, and shall be provided with an integral lift handle.
4. Frame and cover dimensions shall be in accordance with the guidelines indicated. Variations subject to approval.
5. All frames and covers shall be identical for all manhole installations.

Manhole Frame and Cover

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
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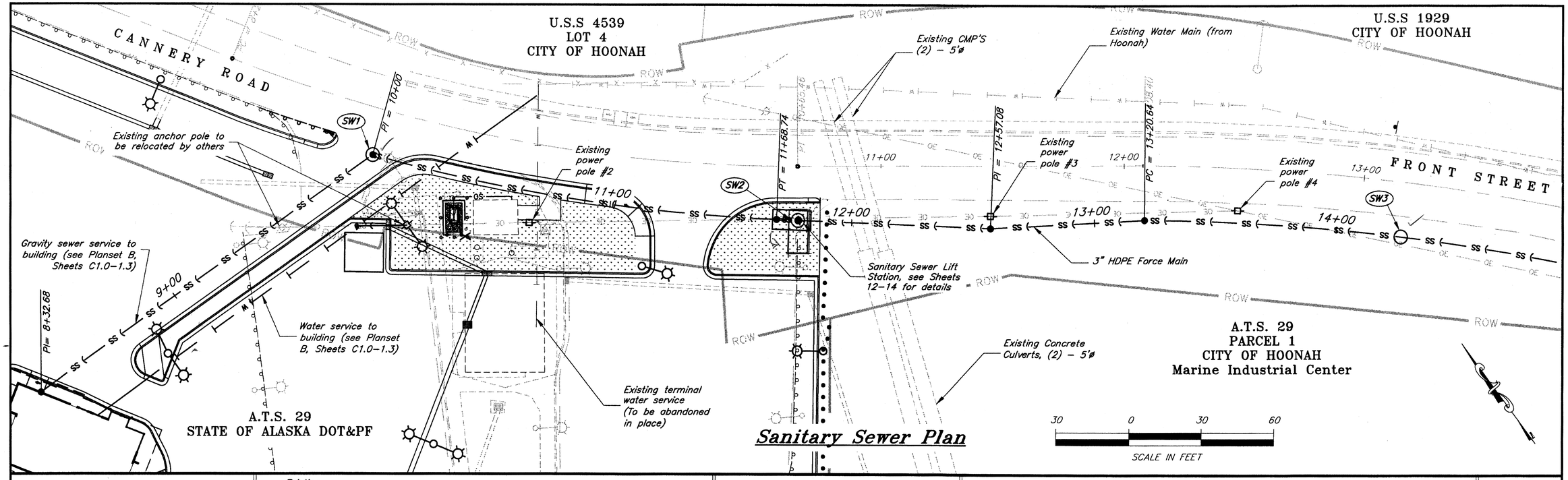
Hoonah Ferry Terminal Improvements

WATER LINE PLAN, PROFILE, DETAILS & MANHOLE DETAILS

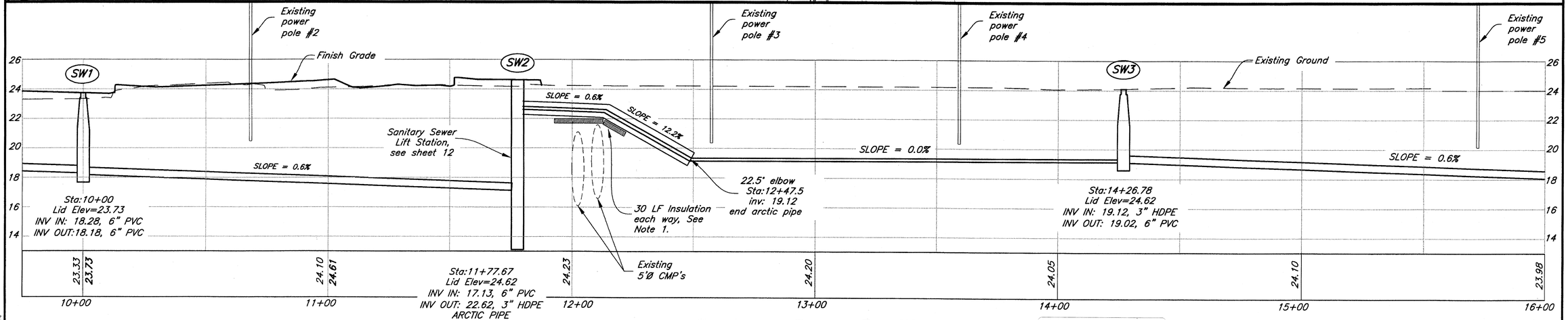
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REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	10	27



Sanitary Sewer Plan



Sanitary Sewer Profile
SW1 TO SW4

SANITARY SEWERLINE ALIGNMENT TABLE

POINT DATA				TANGENT DATA		CURVE DATA			
DESC	STATION	NORTHING	EASTING	BEARING	DISTANCE	CHORD LENGTH	CHORD BEARING	RADIUS	LENGTH
BOP	8+32.68	603717.74	297434.49	S 88° 22' 53" E	167.32				
PC	10+00.00	603713.01	297601.74			168.36	S 43° 56' 36" E	722.52	168.74
PT	11+68.74	603591.79	297718.57	S 50° 35' 58" E	88.34				
PI	12+57.08	603535.72	297786.83	S 55° 56' 44" E	63.56				
PC	13+20.64	603500.12	297839.49			195.95	S 46° 12' 23" E	895.30	196.34
PT	15+16.98	603364.51	297980.94	S 40° 57' 21" E	54.85				
PI	15+71.83	603323.09	298016.89	S 36° 02' 55" E	121.81				
PI	16+93.64	603224.61	298088.57	S 41° 01' 01" E	299.54				
PI	19+93.18	602998.60	298285.15	S 68° 56' 06" E	52.63				
EOP	20+45.81	602979.68	298334.27						

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

NOTES:

1. Existing utility locations shown in the plans are approximate. Contact the respective local utility office for field locates prior to excavation work.
2. 4" Rigid foam insulation w/ staggered seams, between sewer, storm drain and where minimum depth of cover cannot be provided.
3. Trench excavation operations shall not impact power pole base foundations at the locations shown.
4. See sheet 10 for manhole details.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff
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STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

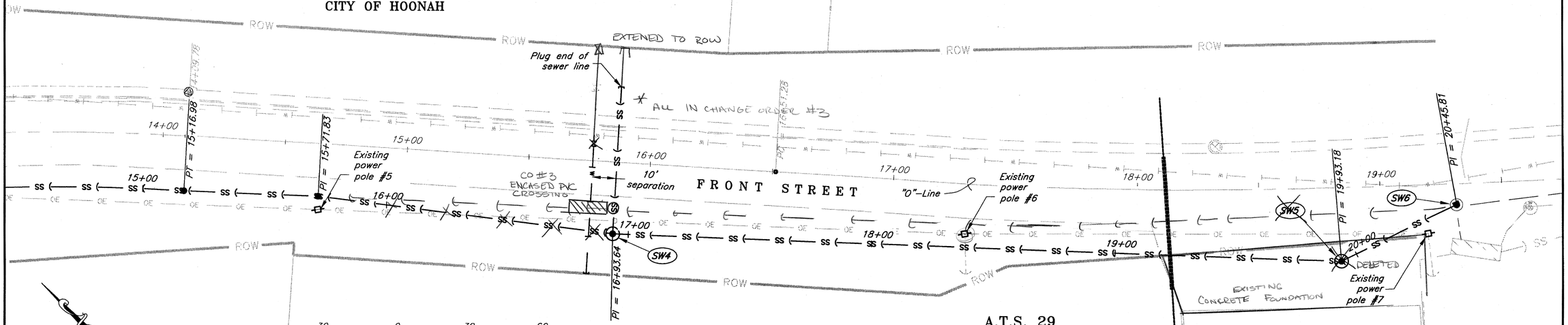
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

SANITARY SEWER PLAN & PROFILE

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AK-04-0013 / 67813	2009	11	27

U.S.S 1929
CITY OF HOONAH



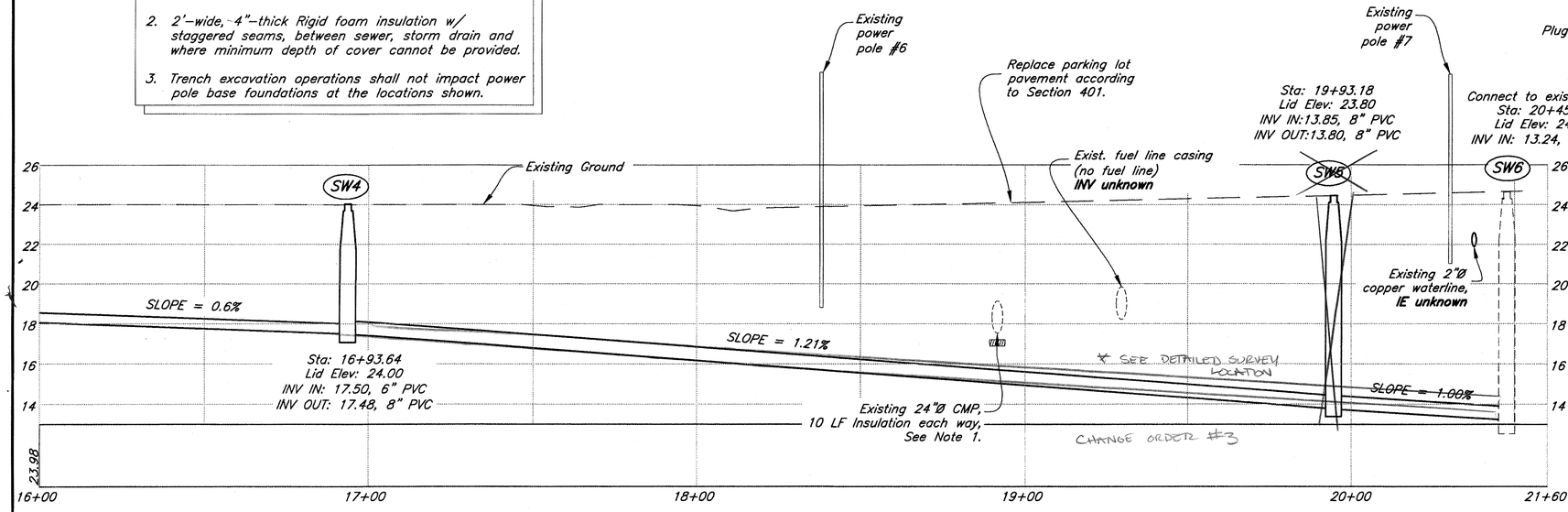
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SCALE IN FEET

Sanitary Sewer Plan

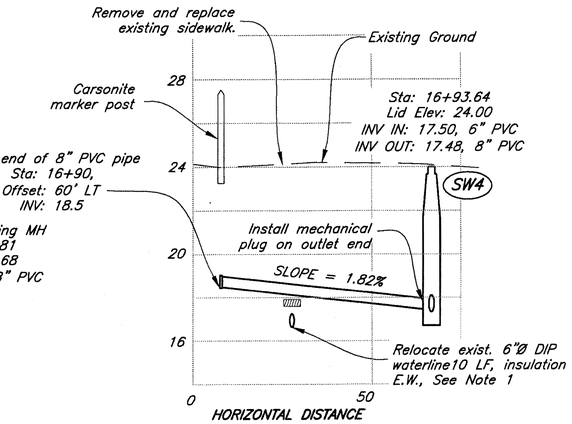
A.T.S. 29
PARCEL 1
CITY OF HOONAH
Marine Industrial Center

NOTES:

1. *Existing utility locations shown in the plans are approximate. Contact the respective local utility office for field locates prior to excavation work.*
2. *2'-wide, 4"-thick Rigid foam insulation w/ staggered seams, between sewer, storm drain and where minimum depth of cover cannot be provided.*
3. *Trench excavation operations shall not impact power pole base foundations at the locations shown.*



Sanitary Sewer Profile
SW4 TO SW7



Sanitary Sewer Profile
SW5 TO SW4

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2-11-10

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

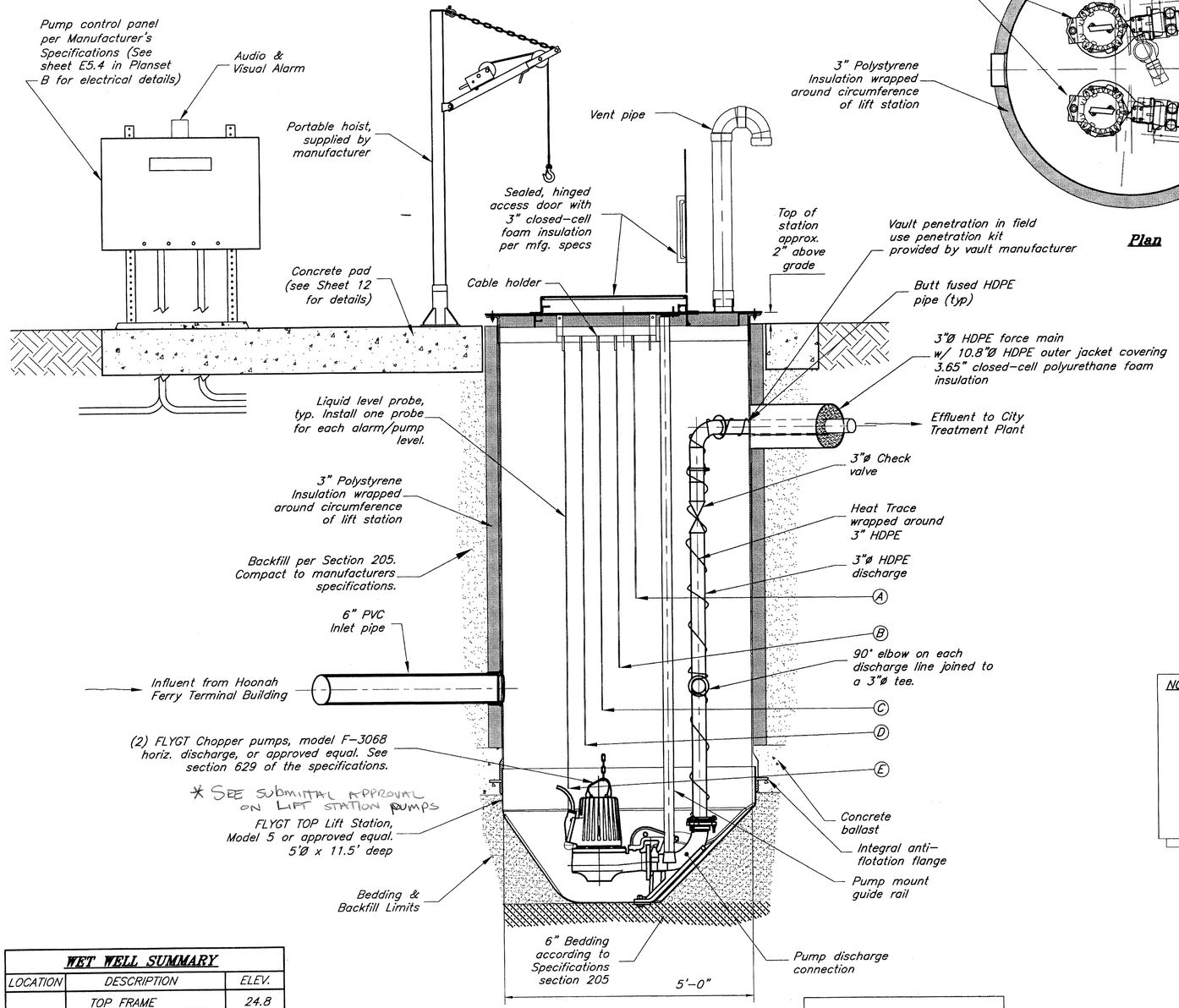
Hoonah Ferry Terminal Improvements

SANITARY SEWER PLAN & PROFILE

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AK-04-0013 / 67813	2009	12	27

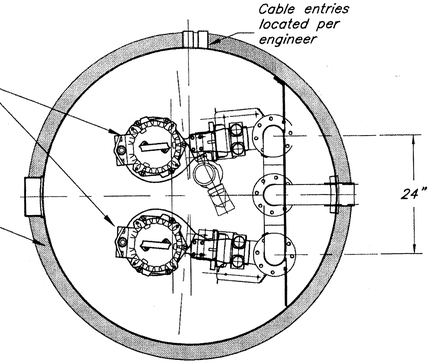


Section

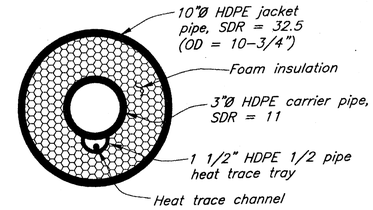
Note:
Ladder not shown for clarity.

Sanitary Sewer Lift Station

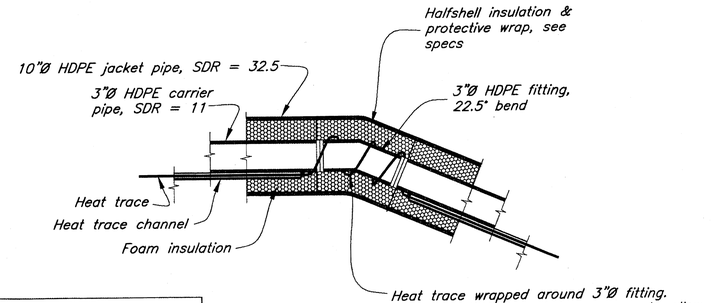
WET WELL SUMMARY		
LOCATION	DESCRIPTION	ELEV.
	TOP FRAME	24.8
A	HIGH LEVEL ALARM	19.2
B	ON LAG PUMP B	17.7
C	ON LEAD PUMP A	17.0
D	OFF LEVEL PUMP A	16.3
E	LOW LEVEL ALARM	15.0
	WET WELL INVERT	13.1



Plan



Arctic Pipe Sewer Force Main Typical Section



Note: See Electrical plans for heat trace details not shown.

Arctic Pipe Sewer Force Main Typ. Connection Detail

NOTES:

1. Contractor shall contact local utility companies to verify location of all existing utilities prior to beginning work. Contact City of Hoonah, Tel. 945-3663 prior to excavation.
2. Refer to Section 629, Volume I of the Specifications for more lift station information. Refer to Volume II of the Specifications and Planset B for information on the electrical system.
3. All HDPE pipe shall have fusion welded joints unless otherwise noted.
4. See Sheet 12 for details on Lift Station Shed.

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

PER PLAN

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19th-09

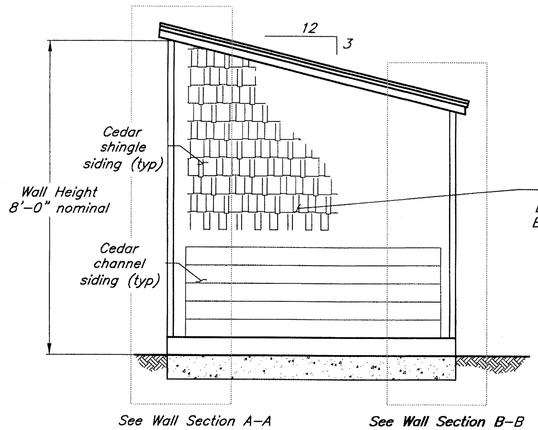
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

LIFT STATION & ARCTIC PIPE DETAILS

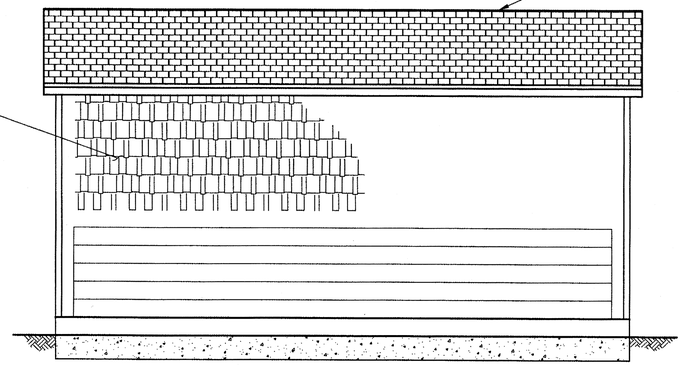
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BENNETT, BERT W (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	AK-04-0013 / 67813	2009	13	27

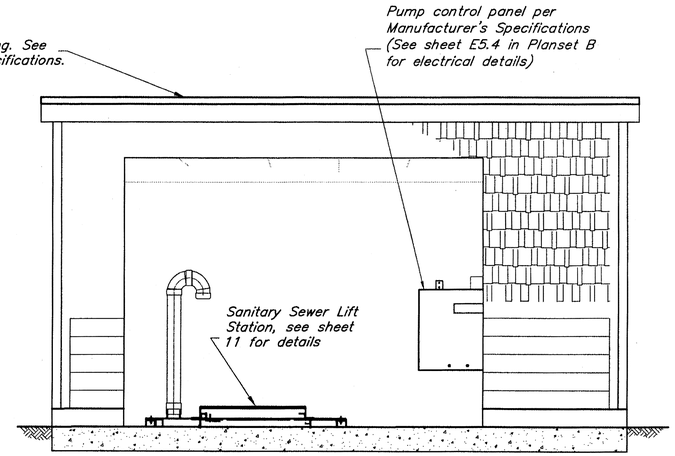


West

(Mirror section for East side)



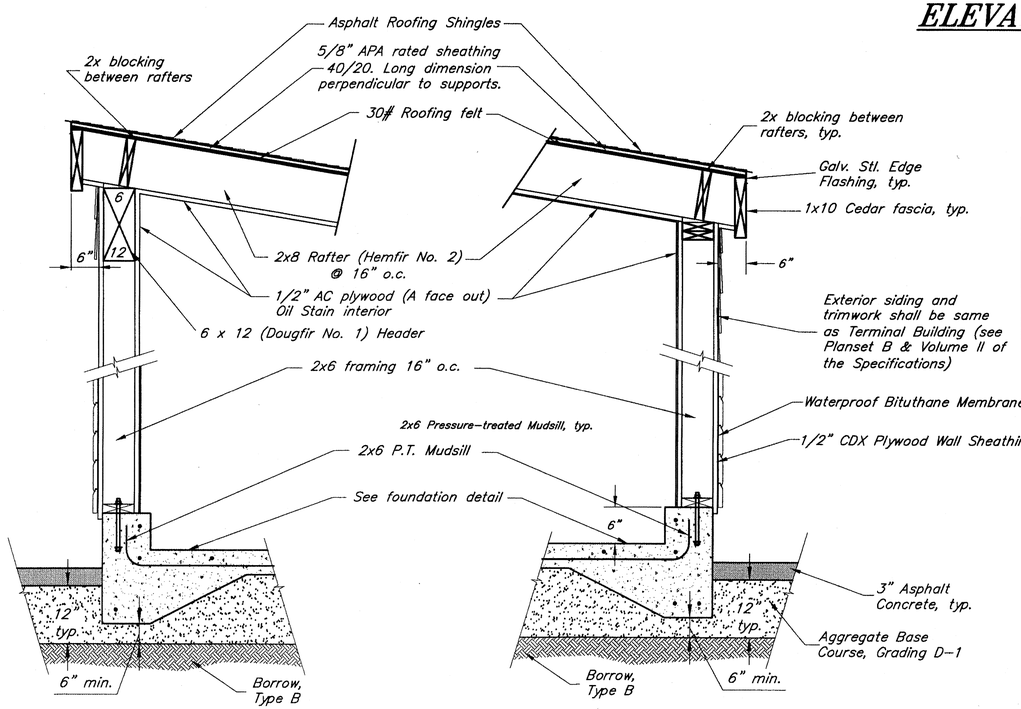
North



South

ELEVATION VIEWS

* LIFT STATION BUILT PER SPEC BUT ROTATED TO ALLOW CITY EASIER ACCESS YET AVOID SNOW PLOWING INTO SHELTER SEE SHEET #9

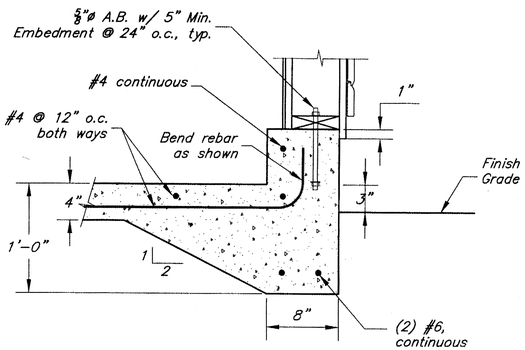


Wall Section A-A

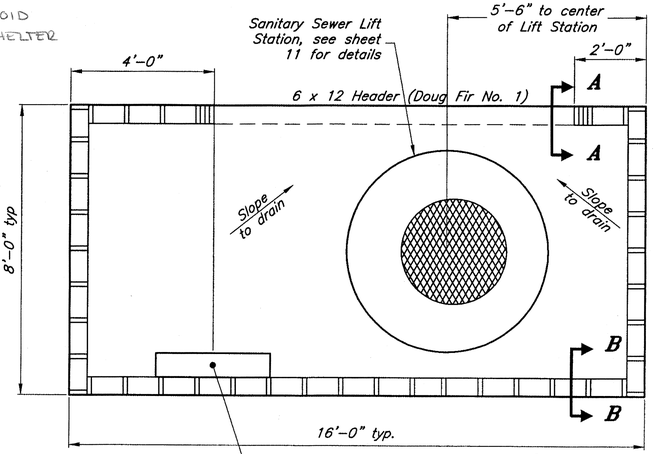
Wall Section B-B

NOTES:

1. Install hurricane ties at rafters & strap header to trimmer studs. Flashing to be installed on all edges of roof.
2. Sequence construction activities in order to provide lift station installation prior to framing in the shelter.



Foundation Detail



Floor Plan

Mount pump control panel on back wall of Lift Station Shelter. Coordinate all conduit penetrations with appropriate trades as necessary.

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date _____

DESIGNED BY: J. Osburn
DRAWN BY: Staff
CHECKED BY: K. Miller

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

LIFT STATION SHELTER ELEVATION & DETAILS

PATH: Q:\HNH\67813\MF\PLANSET_PLANSET A\14 - LS SHELTER.DWG
TAB: Thu, 19/Nov/09 10:12AM OSBURN, JOEL D (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	14	27

FRONT STREET

Remove existing 550 gal. UST

Existing concrete slab

Remove four existing 6"ø Steel pipe bollards w/concrete fill

Existing Generator Building, to remain (see sheet 21 for renovation details)

Remove existing 1200 gal. wastewater holding tank (see Note 2)

Existing wastewater discharge line, abandon in-place

Existing tank fill pipe

Remove existing 680 gal. UST

Existing terminal building, to be removed

ROW

SS

30

Existing Site Plan

0 5 15 25

NOTES:

1. Contractor shall verify location of all existing utilities prior to beginning work.
2. Pump out existing wastewater holding tank prior to demolition. Dispose of wastewater at the City wastewater treatment plant.
3. Install perimeter security fence around Terminal Building AST, including 6-foot wide swing gate.

FRONT STREET

Reroute supply and return lines as necessary

300 gal. Aboveground Storage Tank (AST) with concrete pad and perimeter fence. DELETED

NOW IN SECURITY FENCE & GAT

Existing Generator Building, to remain (see sheet 21 for renovation details)

Install a 6-foot wide swing gate on tank-fill end for access by fuel company. See std. drawing F-3.01.

New Storage Shed, see sheets 17-18

OS

ROW

Proposed Site Plan

0 5 15 25

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — Joel D. Osburn — CE-11014 — 11-19-09

CHECKED BY: K. Miller

DRAWN BY: Staff

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

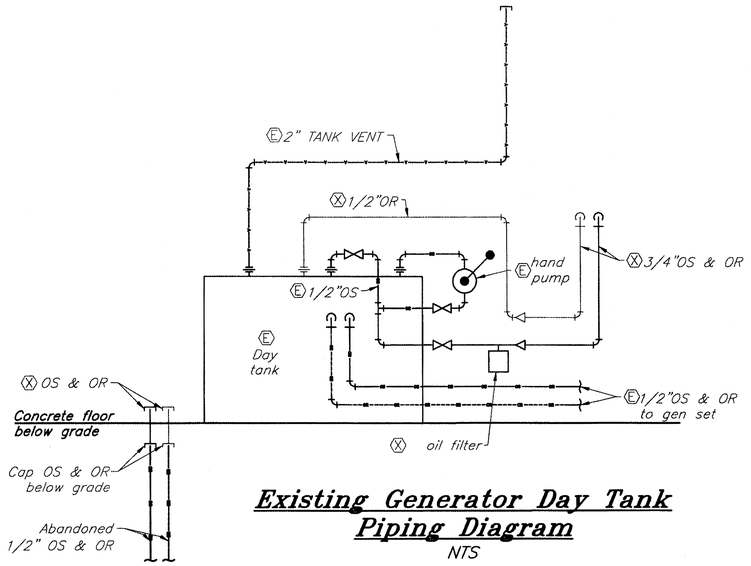
UNDERGROUND TANK REPLACEMENT PLAN

PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\15_16 - UG TANK PLAN & SEWER DETS.DWG

TAB: Thu, 19/Nov/09 07:07AM OSBURN, JOEL D (DOT)

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	15	27

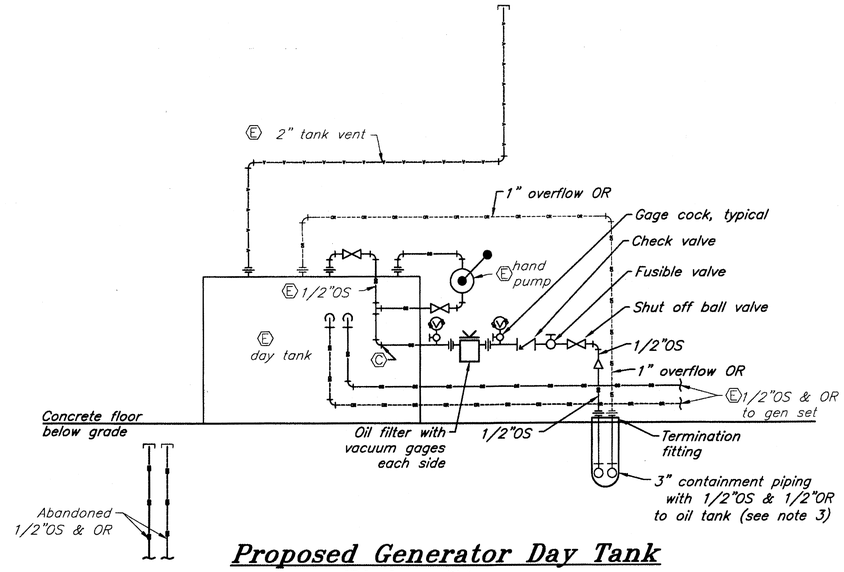


Existing Generator Day Tank Piping Diagram

NTS

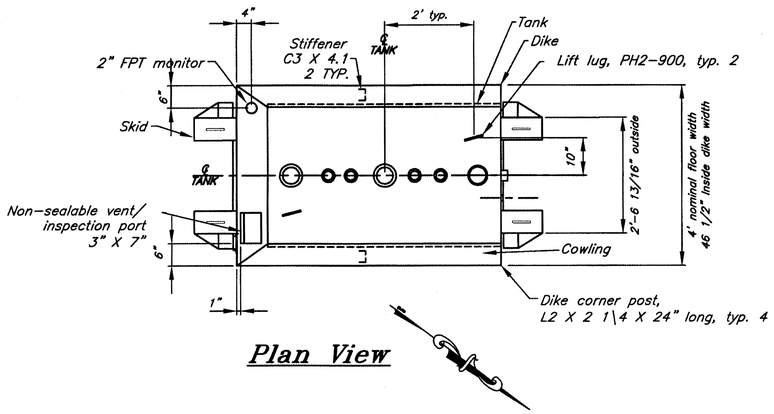
NOTES:

1. Contractor shall contact local utility companies to verify location of all existing utilities prior to beginning work.
2. Concrete Pad specifications:
   - Class A Concrete
   - Dimensions: 6" X 7' X 12'
   - #4 bars @ 10" o.c., both ways, with 3" offset from edges
   - Fuel tank anchor bolts according to manufacturer recommendations
   - Provide 6" minimum Item 301 aggregate base leveling course compacted to 95% standard density.
3. Install 1/2-inch OS and OR piping inside 3-inch secondary piping from tank sump to generator building using required connection and termination fittings. Perform test prior to backfill and compaction. Install secondary piping through a protected source at ground level into the building. Disconnect piping from day tank during work to install OS & OR lines. Verify operation of day tank to Project Manager upon completion of work.
4. Construct perimeter fencing around new AST @ the terminal building, per this detail.

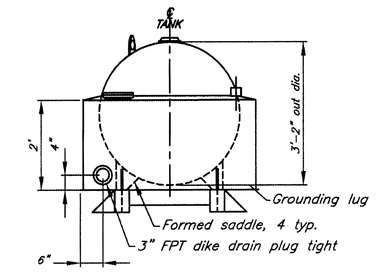


Proposed Generator Day Tank Piping Diagram

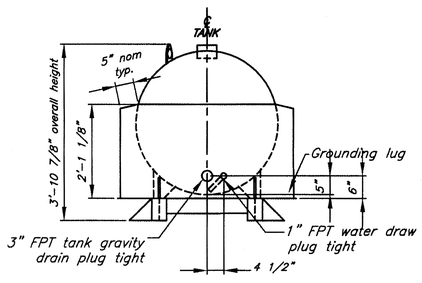
NTS



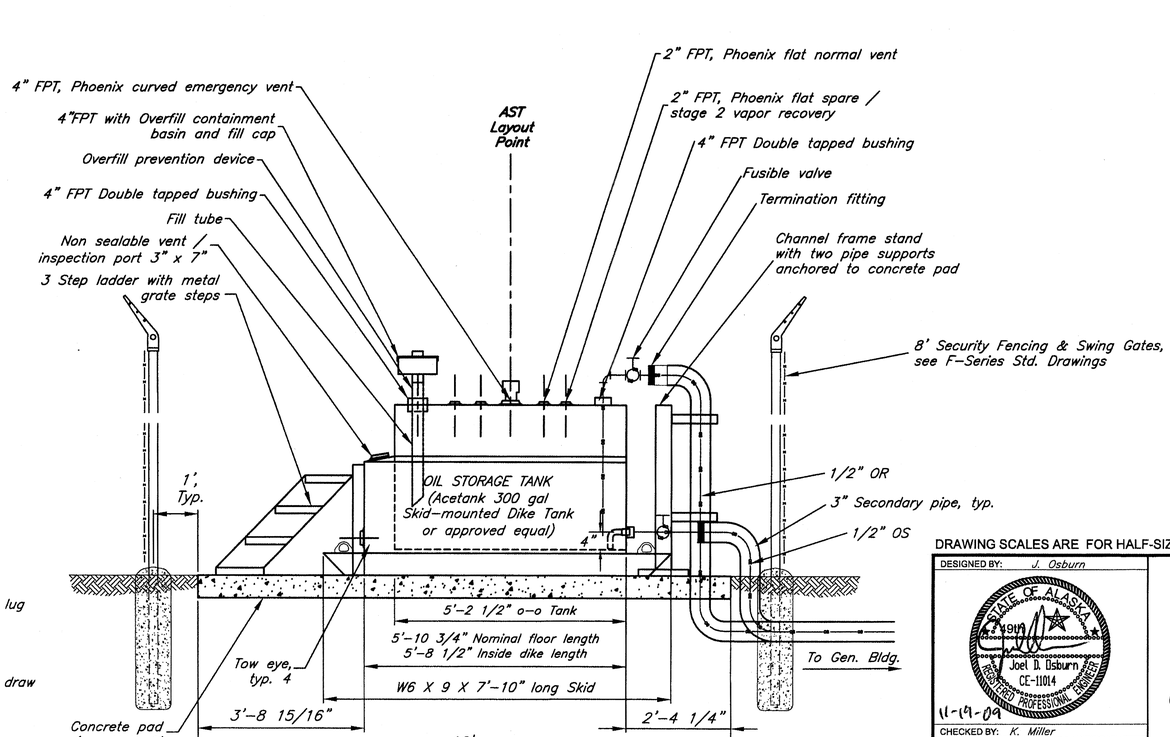
Plan View



South Elevation - End View



North Elevation - End View



Elevation View

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1/16/11

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

GENERATOR BUILDING AST DETAILS

PATH: Q:\HNH\67813\MF\PLANSET_PLANSET A\15_16 - UG TANK PLAN & SEWER DETS.DWG
TAB: Mon, 09/Nov/09 11:54AM OSBURN, JOEL D (DOT)

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	16	27

DOOR SCHEDULE

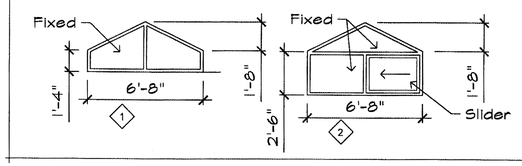
Size (W x H)	Type	Thick.	Construction Door	Construction Frame	Details (see sheet 18) Head	Jamb	Sill	HDWR	Remarks
1 (2) 3'-0" x 8'-0"	A	1-3/4"	HM	HM	3	3 slm.	2	1	

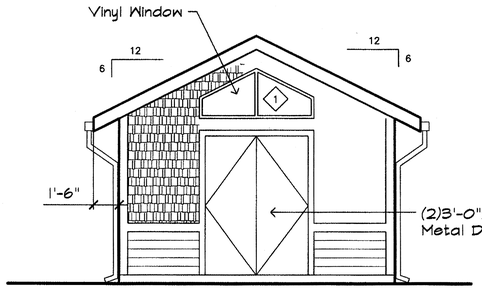
HARDWARE TYPE 1
3 Hinges Stainless Steel (exterior)
1 Galvanized Pull Handle (pair)
1 Deadbolt, Single Cylinder, 1-Inch Throw Min.
1 Flush Bolts (pair)

DOOR INFORMATION
Type A – Flush, Galvanized Hollow Metal

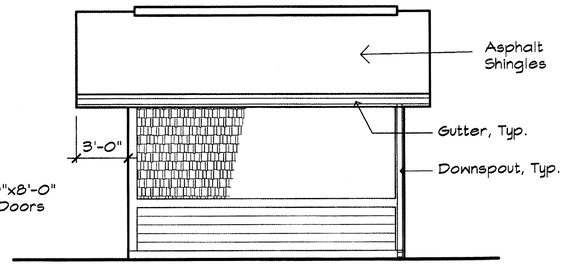
FRAME INFORMATION
HM – Galvanized Hollow Metal

WINDOW SCHEDULE

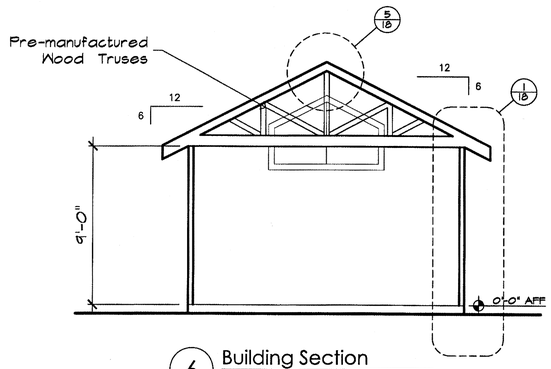




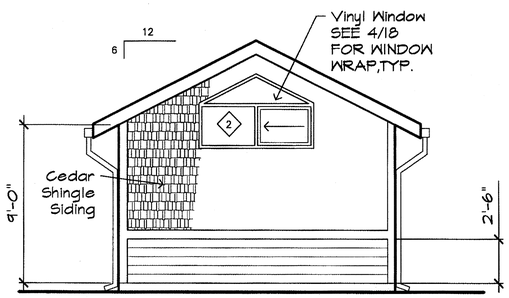
5 South Elevation 0 1' 2' 4'



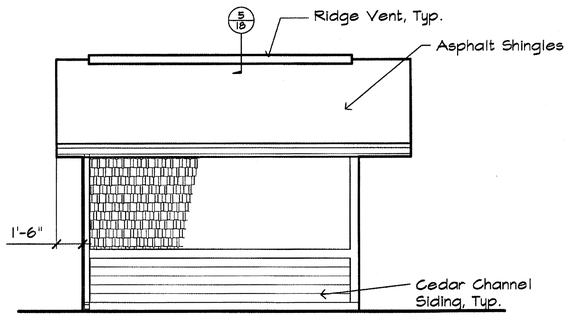
4 East Elevation 0 1' 2' 4'



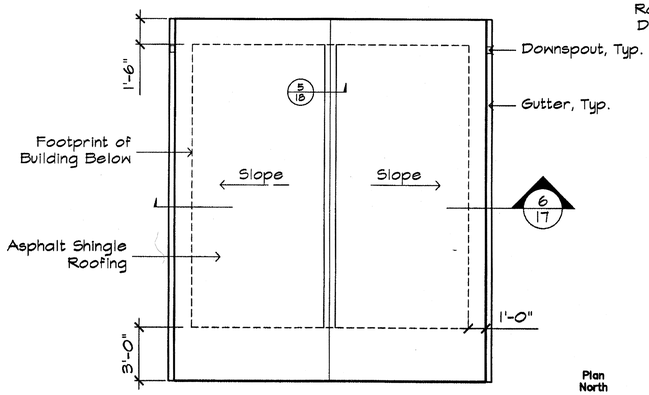
6 Building Section



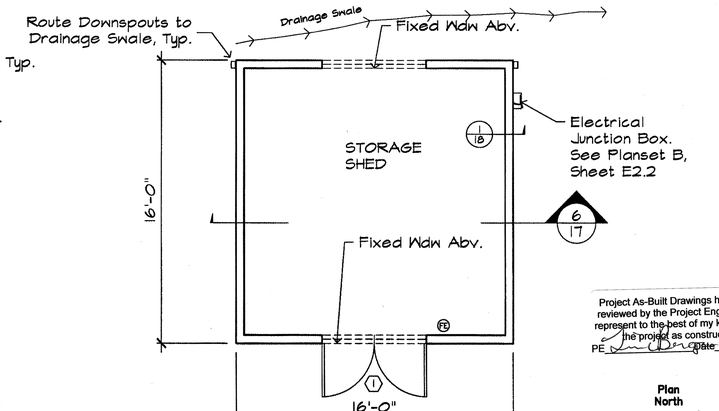
3 North Elevation 0 1' 2' 4'



2 West Elevation 0 1' 2' 4'



7 Roof Plan 0 1' 2' 4'



1 Floor Plan 0 1' 2' 4'

BUILDING BUILT PER PLAN
SEE
* POWER ADDED IN CHANGE ORDER #4

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 12/16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Whiteley
CHECKED BY: T. Whiteley
DRAWN BY: S. Meredith

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

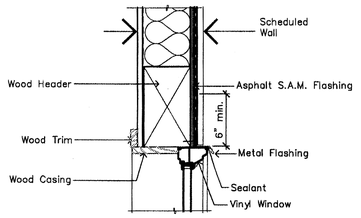
Hoonah Ferry Terminal Improvements

Plans, Elevations, Section

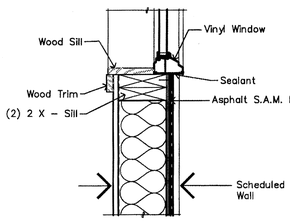
STATE OF ALASKA · 49TH · Timothy Whiteley · No. A-9429 · REGISTERED PROFESSIONAL ENGINEER
OCTOBER 26, 2009

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TAB: TIM WHITELEY

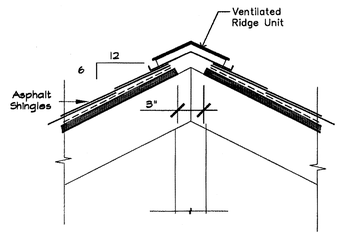
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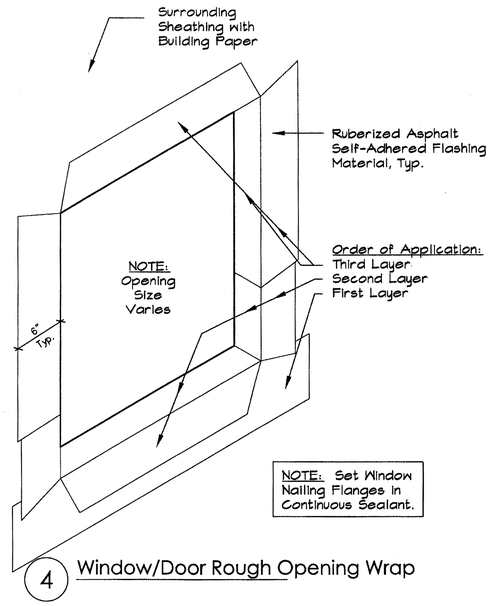
7 Window Head



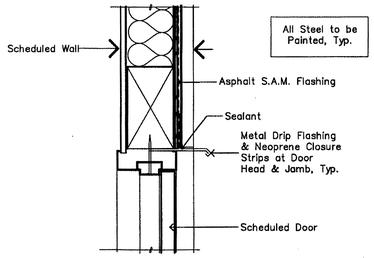
6 Window Sill



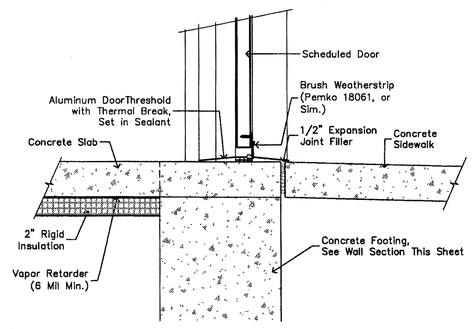
5 Ventilated Ridge



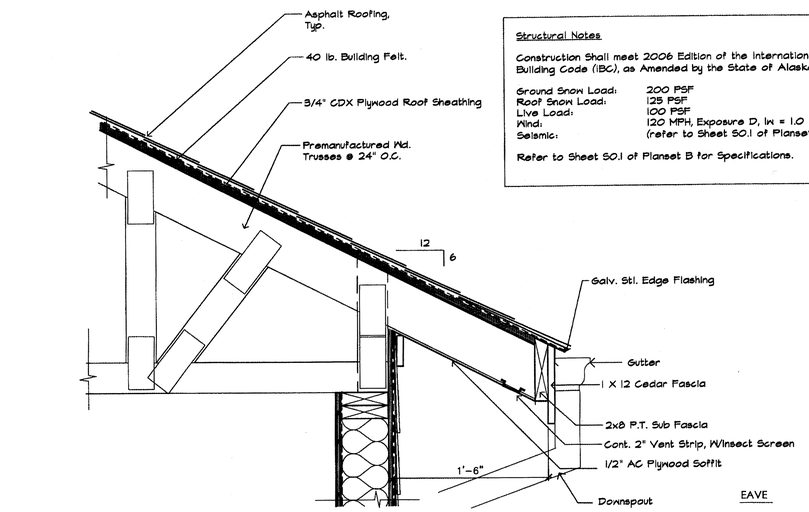
4 Window/Door Rough Opening Wrap



3 Door Head (Jamb Similar)



2 Wall Section

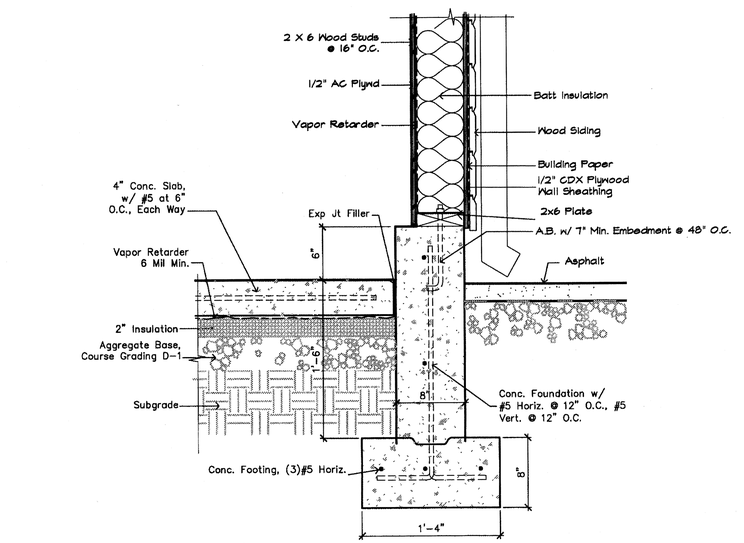


Structural Notes

Construction Shall meet 2006 Edition of the International Building Code (IBC), as Amended by the State of Alaska.

Ground Snow Load:	200 PSF
Roof Snow Load:	125 PSF
Live Load:	100 PSF
Wind:	120 MPH, Exposure D, Iw = 1.0
Seismic:	(refer to Sheet S0.1 of Planset B)

Refer to Sheet S0.1 of Planset B for Specifications.



1 Wall Section

0 1" 3" 6"

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Whiteley

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

Details

STATE OF ALASKA 49TH — Timothy Whiteley No. A-9429 — PROFESSIONAL ENGINEER

OCTOBER 26, 2009

CHECKED BY: T. Whiteley

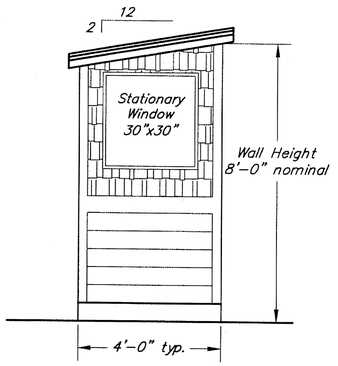
DRAWN BY: S. Meredith

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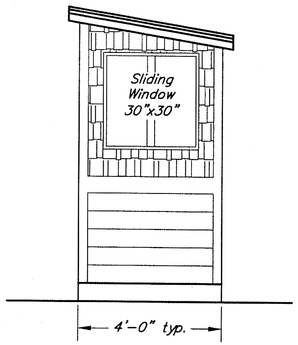
TABs: TIM WHITELEY

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

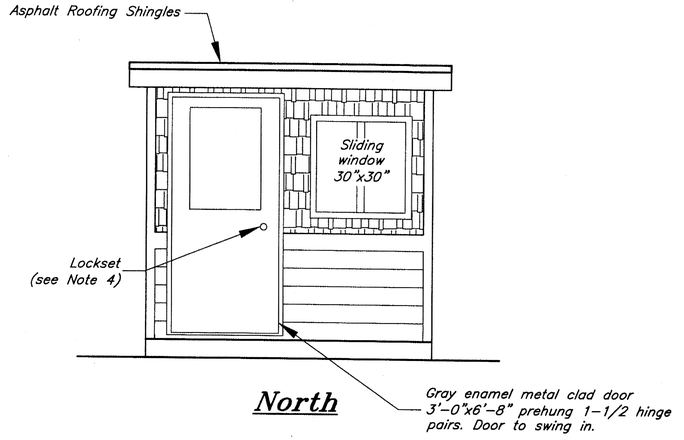
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NO.	DATE	DESCRIPTION				
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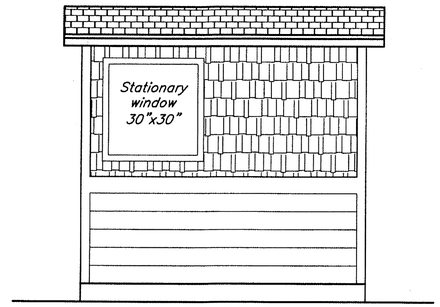
East



West



North

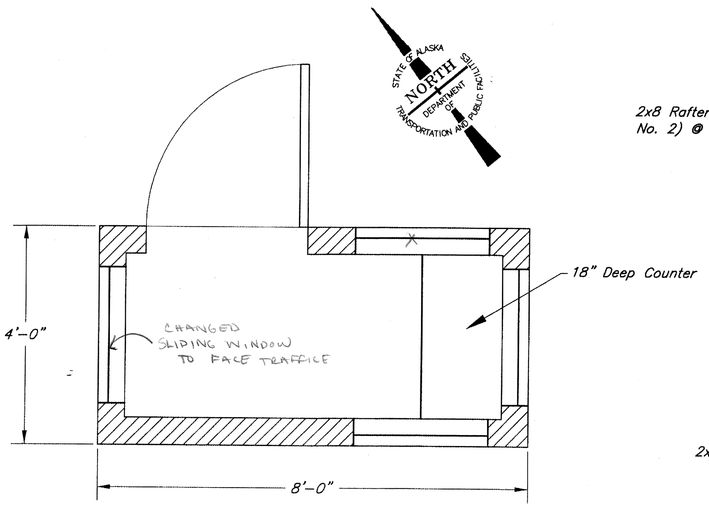


South

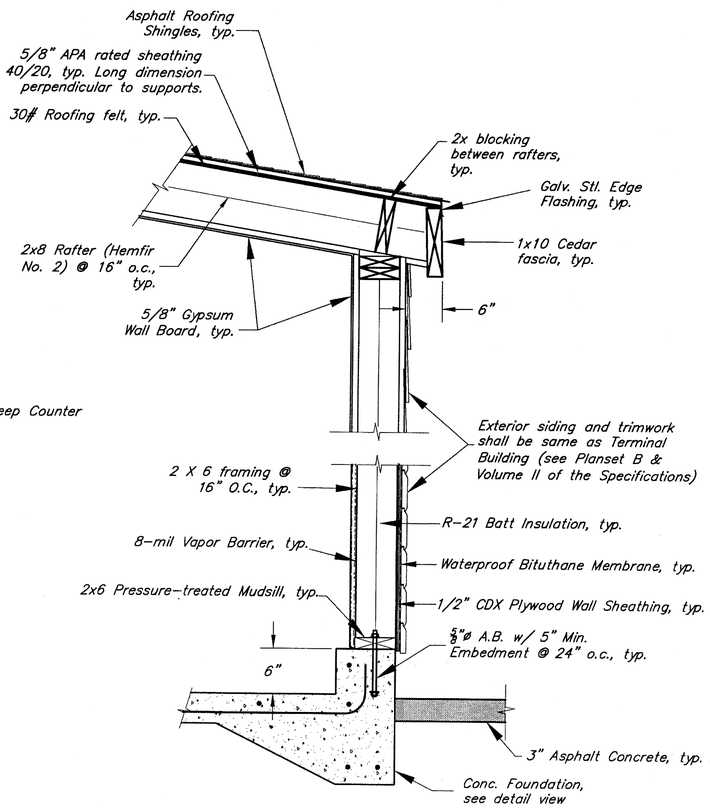
ELEVATION VIEWS

NOTES:

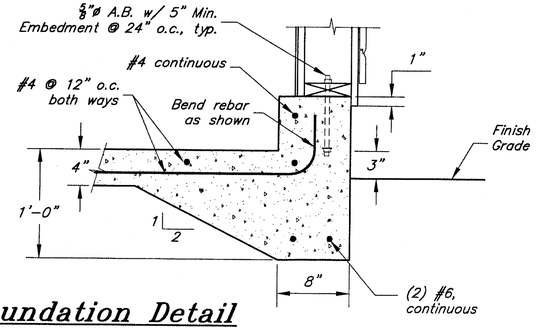
1. Install hurricane ties at rafters. Flashing to be installed on all edges of roof.
2. Windows and doors shall meet the dimensions shown and be as specified in Volume II of the specifications. Trim to be 1x3 cedar.
3. Door locksets shall be the type and style per Section 08710, Volume II of the specifications, and shall be keyed to the Owner's new master-key system.
4. Exterior siding and trimwork shall be same as Terminal Building (see Planset B & Volume II of the Specifications).
5. Contractor's option to construct Purser Shelter shown or supply pre-manufactured PARKUT Standard Booth Model 84, B.I.G. International Standard Steel booth Model DC46A, or approved equal.



Floor Plan



Typical Wall Section



Foundation Detail

* NOTE CHANGE ORDER # 4
* LOCATION PREFERENCE
* ADDITIONAL PURSERS SHED WAS LATER REQUIRED

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE [signature] Date 7/16/14

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff
11-19-09

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

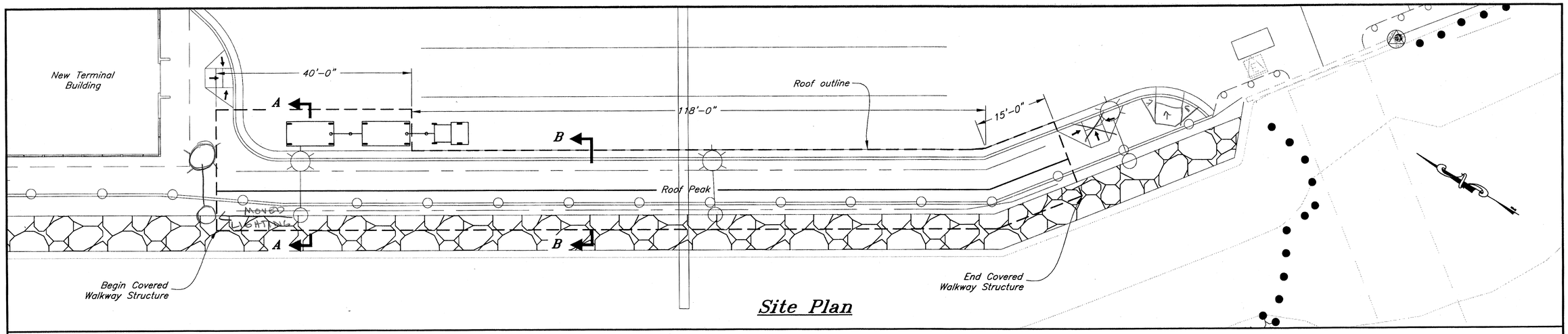
Hoonah Ferry Terminal Improvements

PURSERS SHELTER ELEVATION & DETAILS

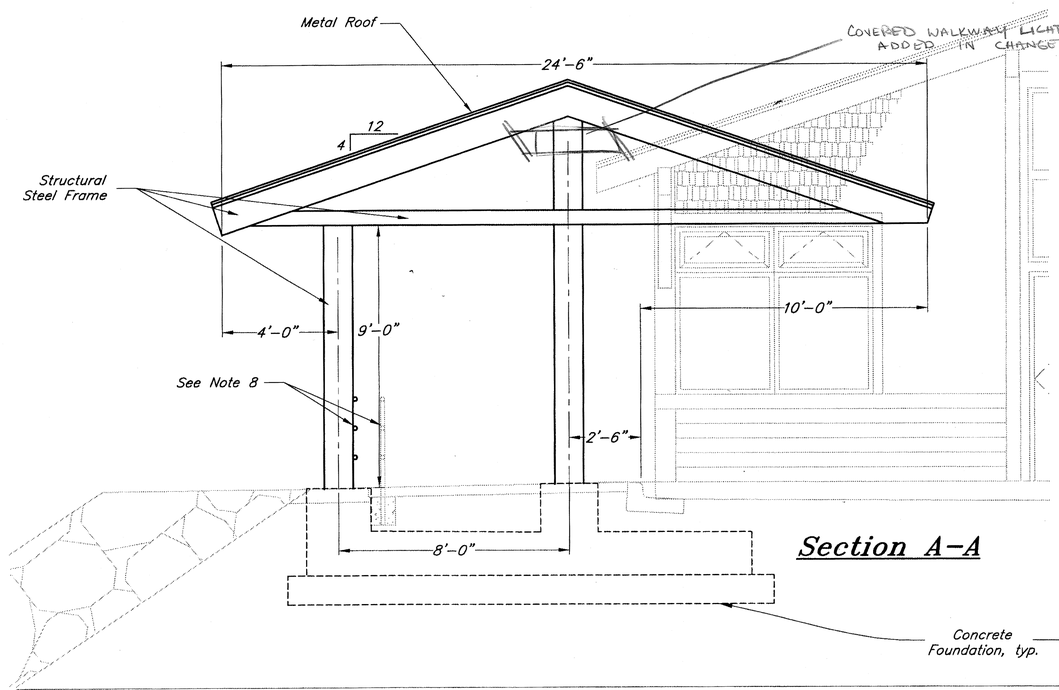
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TAB: Thu, 19/Nov/09 11:20AM OSBURN, JOEL D (DOT)

REVISIONS NO.	DATE	DESCRIPTION

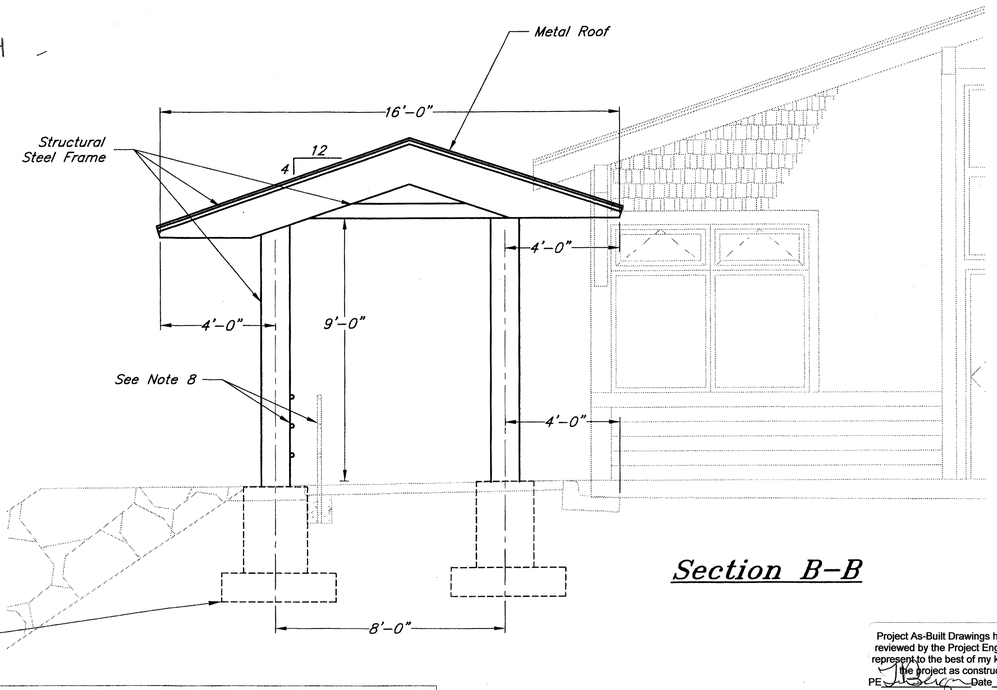
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	19	27



Site Plan



Section A-A



Section B-B

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: _____ Date 2/16/11

GENERAL NOTES:

1. Covered walkway structure is shown schematically on the Plans. Final design and construction documents of the foundation and superstructure shall be furnished by the Contractor.
2. Design shall be performed by a qualified architect and structural engineer registered to practice in the State of Alaska, based on the dimensions and general configuration shown on the Plans. Alternate configurations and details may be acceptable; however, in no case shall the overall dimensions be less than those indicated.
3. Contractor shall submit for review:
   a) Concept drawings (35%),
   b) Preliminary planset (80%), and
   c) Final planset (100%).
   Technical specifications shall be placed on the drawings. The Final planset shall be sealed by an architect and engineer registered in the State of Alaska after review and approval by the Department.
4. Design shall be in accordance with the latest edition of the International Building Code (IBC) and local amendments as may be applicable. Refer to Sheet S0.1 of Planset B and Section 695 of the Special Provisions for minimum design loads and material specifications.
5. All fabrication, materials and finishes shall be in accordance with the applicable provisions of the State of Alaska, Standard Specifications and in accordance with Volume II of the Special Provisions.
6. All steel members, fasteners, and hardware shall be hot-dip galvanized after fabrication.
7. Roofing materials shall be heavy gage steel or aluminum sheeting that is coated for corrosion resistance specifically designed for long term exposure to the marine environment. All roof fasteners shall be stainless steel, unless otherwise permitted. Roofing shall also be equipped with snow dams to prevent snow from sliding.
8. Replace the pedestrian barrier along the length of the Covered Walkway with a handrail mounted to the structural frame as shown.

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
STATE OF ALASKA · Joel D. Osburn · CE-11014 · REGISTERED PROFESSIONAL ENGINEER
11-19-09
CHECKED BY: K. Miller
DRAWN BY: Staff
PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\20 - WALKWAY_BAGGAGE CART COVERED AREA.DWG
TAB: Wed, 18/Nov/09 02:16PM OSBURN, JOEL D (DOT)

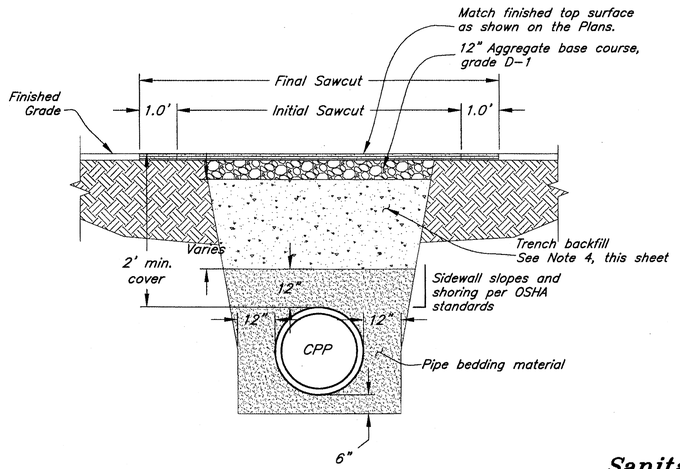
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

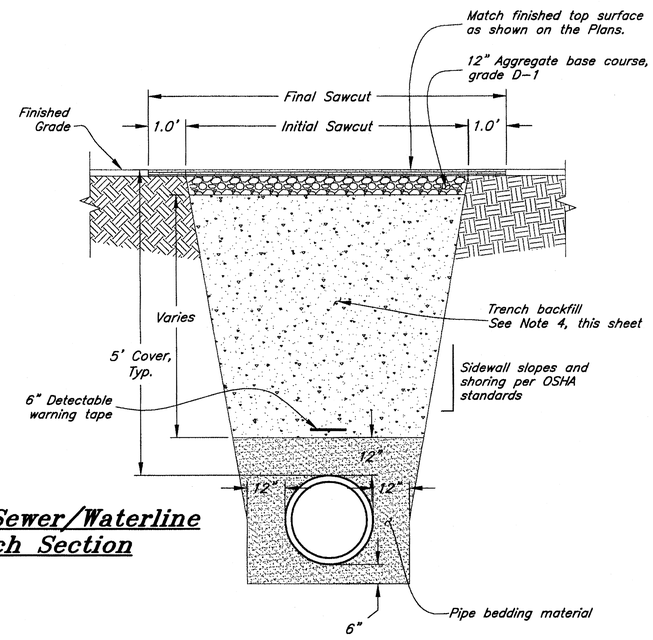
Additive Alternate A - **COVERED WALKWAY STRUCTURE**

Elevation & Details

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AK-04-0013 / 67813	2009	20	27



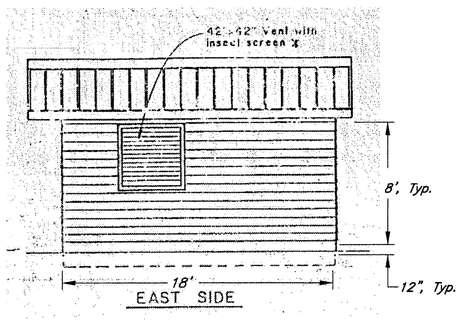
Storm Sewer Trench Section

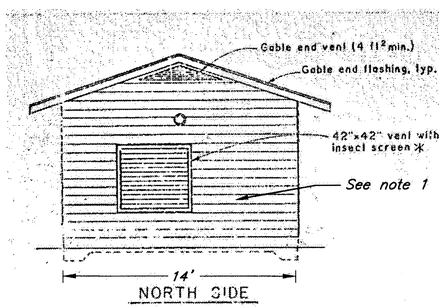


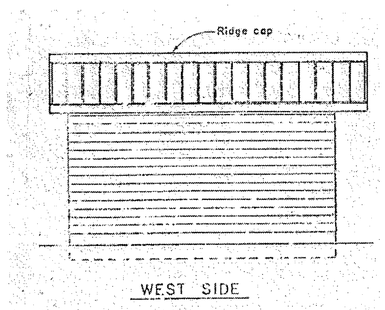
Sanitary Sewer/Waterline Trench Section

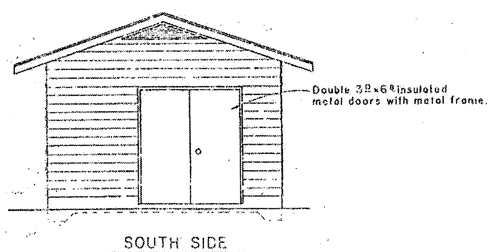
NOTES:

1. Maintain adequate cover over all roadway pipe crossings to prevent damage to pipes from traffic. Minimum cover shall be no less than 2 ft. Where loads traverse the pipe during construction, minimum cover shall be no less than 3 ft.
2. Patch all roadway trenches with cold-mix asphalt concrete, concrete, or chip seal surfacing if new pavement cannot be placed within 3-weeks of existing pavement removal. Place temporary surfacing within 24 hours of existing pavement removal. Any gravel crossings shall be maintained until new or temporary pavement is placed.
3. Trench excavation limits shall not extend into the Front Street/Cannery Road pavement section after the interim completion date, as specified in Section 105 of the specifications.
4. Contractor shall incorporate useable excavated materials in trench backfill except where existing materials are determined to be unsuitable by the Engineer for re-use. Import or selected materials for trench backfill shall only be utilized and paid for when authorized by the Engineer. Trench backfill shall meet gradation requirements for Selected Material, Type B.









Existing Generator Building Elevation Views

GENERATOR BUILDING NOTES:

1. Replace exterior siding on existing Generator Building with same type and color as new Terminal Building. Refer to Planset B for siding details, and Volume II of the Specifications for materials/construction requirements.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

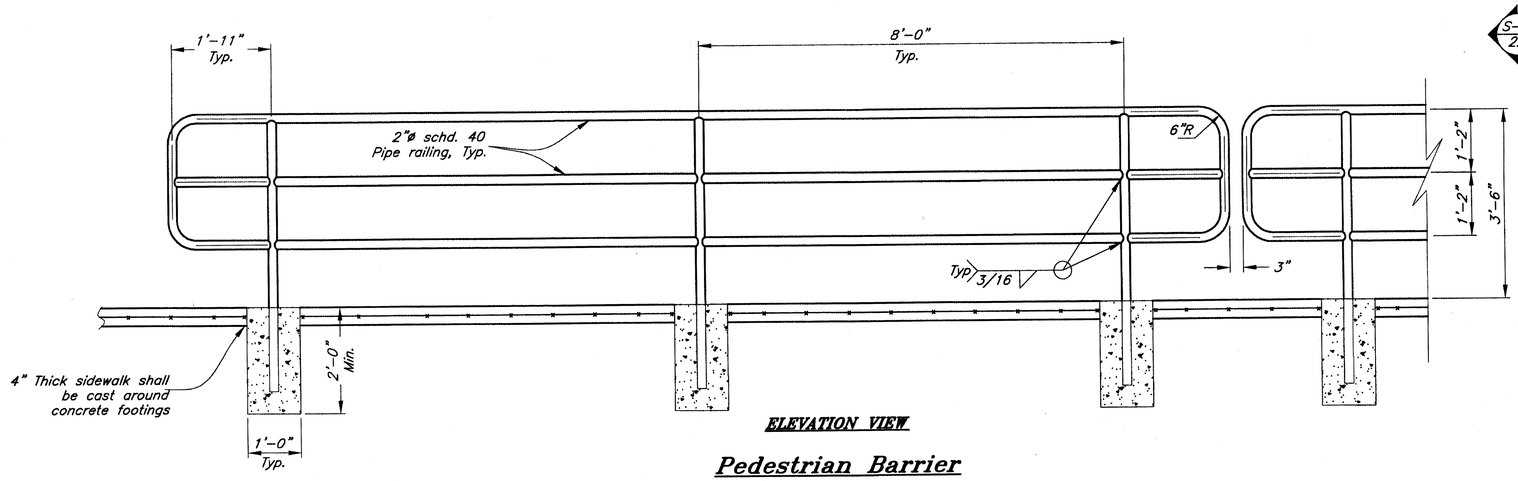
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

MISCELLANEOUS DETAILS

PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\21_24 - MISC DETS.DWG
TAB: Tue, 17/Nov/09 02:47PM OSBURN, JOEL D (DOT)

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NO.	DATE	DESCRIPTION				
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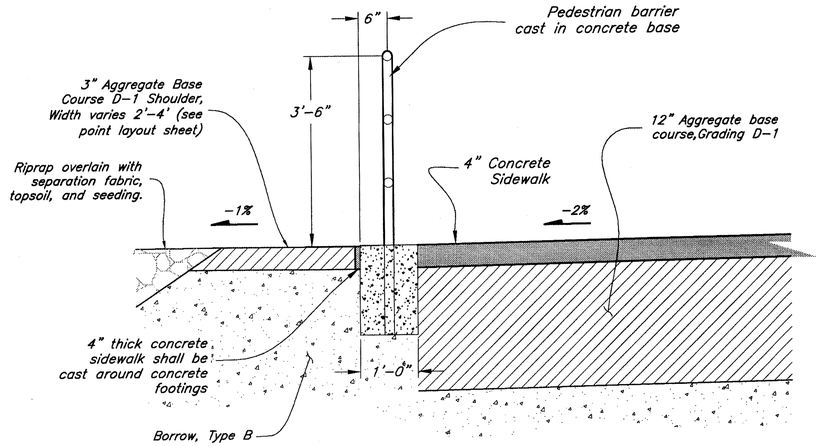


ELEVATION VIEW

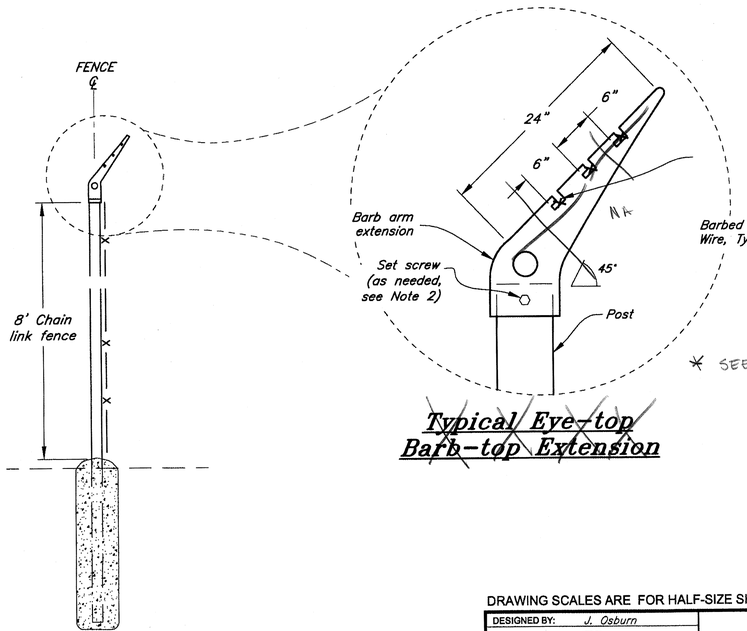
Pedestrian Barrier

PEDESTRIAN BARRIER NOTES:

1. *Verify all controlling dimensions in the field before ordering or fabricating any material.*
2. *All railing members and associated hardware shall be galvanized.*
3. *All vertical members shall be spaced to maintain a uniform gap.*
4. *Contractor shall provide shop drawings of all pedestrian railing prior to fabrication for the engineer's review and approval.*



Section A 22



Typical Eye-top Barb-top Extension

Typical Fence Section

FENCE NOTES:

1. *For fence details, refer to Standard Drawings F-01.01 & F-03.01.*
2. *Use set screw on barb-top extensions, as needed, To maintain barb-wire tension when fencing changes elevation between posts.*

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
STATE OF ALASKA 49th Joel D. Osburn CE-11014 REGISTERED PROFESSIONAL ENGINEER
11-19-09
CHECKED BY: K. Miller
DRAWN BY: Staff
PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\21_24 - MISC DETS.DWG
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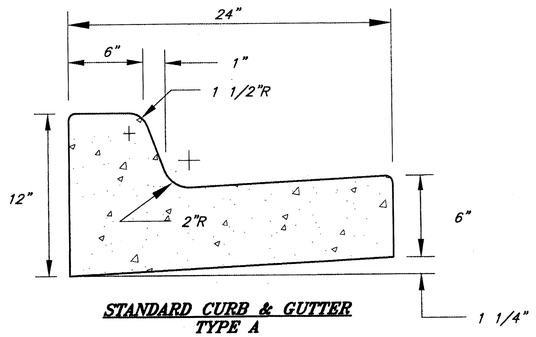
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

MISCELLANEOUS DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

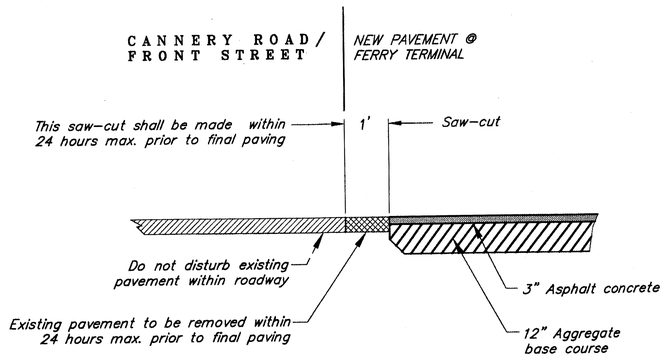
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	22	27



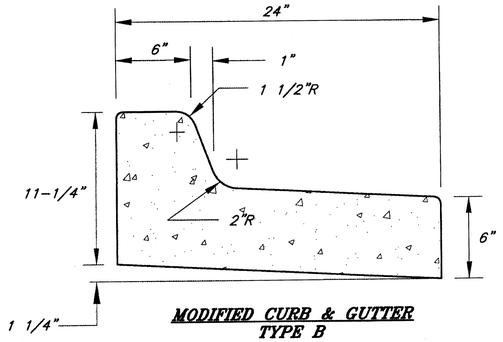
STANDARD CURB & GUTTER
TYPE A

SIDEWALK, CURB AND GUTTER NOTES

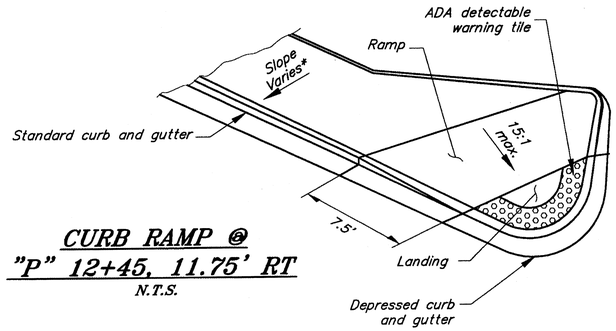
1. Concrete sidewalk, curb and gutter expansion joints shall be at each end of curb returns and immediately preceding and following all curb cuts. Thereafter, they shall be placed at 30' maximum.
2. Concrete sidewalk dummy joints shall extend into concrete 1/3 the depth and 1/8" wide at 5' maximum intervals between expansion joints.
3. All joints and seams shall be edged.
4. Where the roadway is superelevated or is not crowned using a continuous cross-slope, the gutter pan on the high side of the roadway shall match the slope of the roadway and drain toward the center of the roadway.
5. Steel troweling finish required prior to broom finishing on all surfaces.
6. Curing compound shall be applied to the concrete. Application shall conform to the manufacturer's recommendations.
7. See standard drawing I-21.01, single crossing detail for parallel curb ramp at Sta. "0" 9+90.



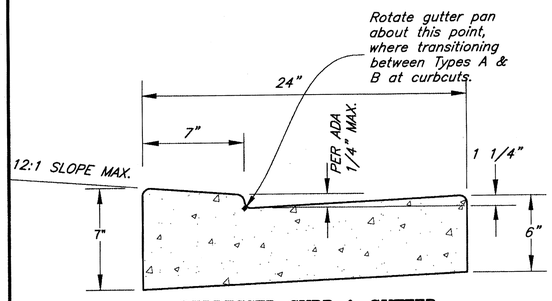
PAVEMENT MATCH JOINT
SECTION VIEW
N.T.S.



MODIFIED CURB & GUTTER
TYPE B



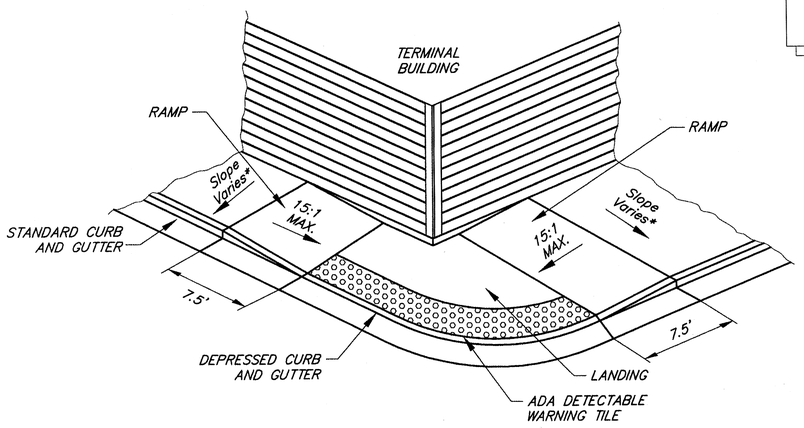
CURB RAMP @
"P" 12+45, 11.75' RT
N.T.S.



DEPRESSED CURB & GUTTER
USED AT CURB CUTS AND ADA RAMPS
(Shown with Type A transition)

CURB & GUTTER DETAILS
N.T.S.

NOTE:
Both front and back top edges of the curb & gutter shall be troweled to a radius of one-half (1/2) inch.



CURB RAMP @
"P" 12+00, 7.5' RT
N.T.S.

GENERAL NOTES:

1. Excavation limits shall not extend into Front Street or Cannery Road pavement section.
2. Refer to Planset B for details on the Terminal Building.
3. Install pipe bollards around both new above-ground fuel tanks in a 1-foot offset from the security fencing, at each corner and spaced at Min. 8-feet o.c. in between. Paint bollard exteriors Yellow and construct in accordance with Section 606 of the specifications.

BOLLARD DETAIL

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DESIGNED BY: J. Osburn
STATE OF ALASKA · 49th · Joel D. Osburn CE-11014 · REGISTERED PROFESSIONAL ENGINEER
11-19-09
CHECKED BY: K. Miller
DRAWN BY: Staff
PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\21_24 - MISC DETS.DWG
TAB: Mon, 16/Nov/09 10:06AM OSBURN, JOEL D (DOT)

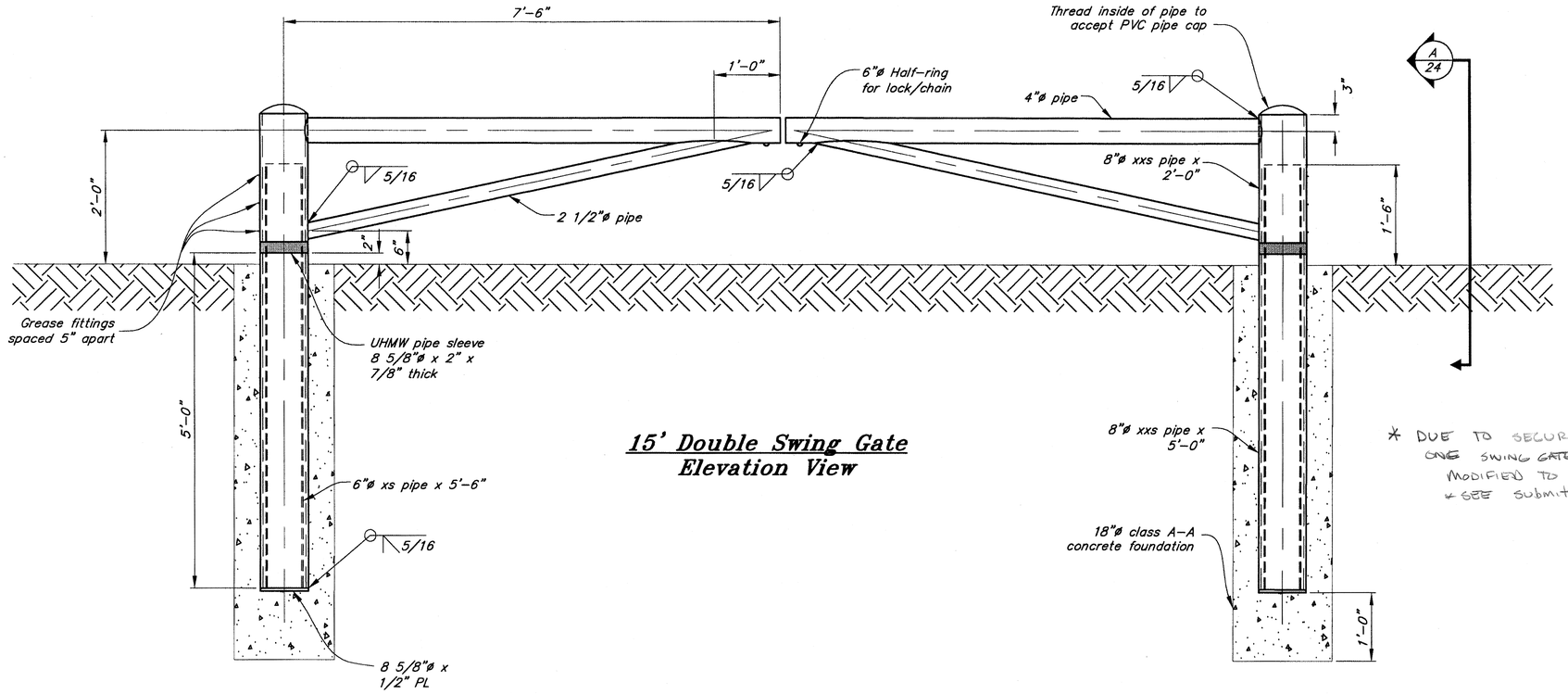
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

MISCELLANEOUS DETAILS

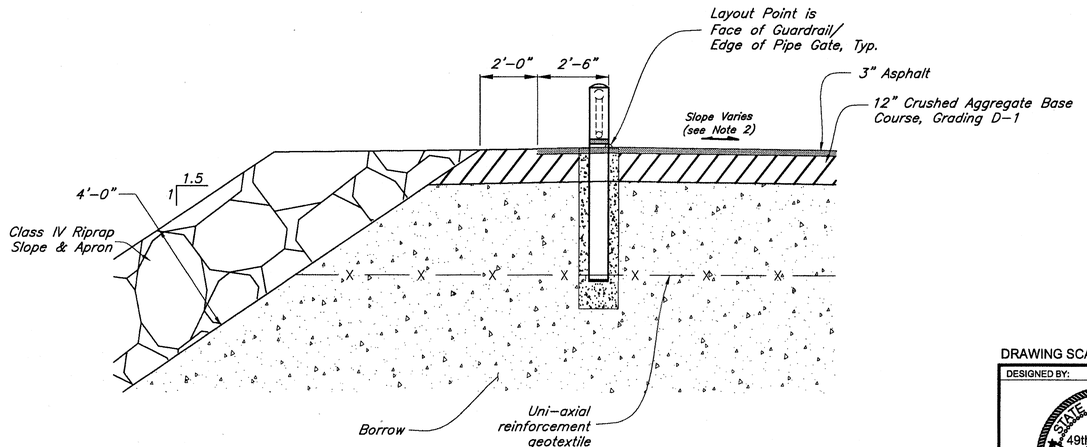
REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	23	27



* DUE TO SECURITY FENCING ONE SWING GATE HAD TO BE MODIFIED TO ATTACH FENCE * SEE SUBMITTAL

15' Double Swing Gate
Elevation View



15' Double Swing Gate
Section View

A 24

NOTES:

1. *Location of double swing gates are as follows:*
   - *'P' 11+00, 39.2' RT*
   - *'S' 12+08, 39.0' LT*
2. *Contractor shall produce 1-foot of 3/8" S.S. chain and keyed padlock for each gate. Padlock shall be all-weather commercial grade brushed brass ABUS 831C/50 model or approved equal. Locks shall have cylinders with seven-pin tumblers and removable cores with 'E' key way. Provide four copies of keys to Hoonah Terminal Manager.*

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn

STATE OF ALASKA 49th Joel D. Osburn CE-11014 REGISTERED PROFESSIONAL ENGINEER

11-19-09

CHECKED BY: K. Miller

DRAWN BY: Staff

PATH: O:\HNH\67813\MF\PLANSET_PLANSET A\21_24 - MISC DETS.DWG

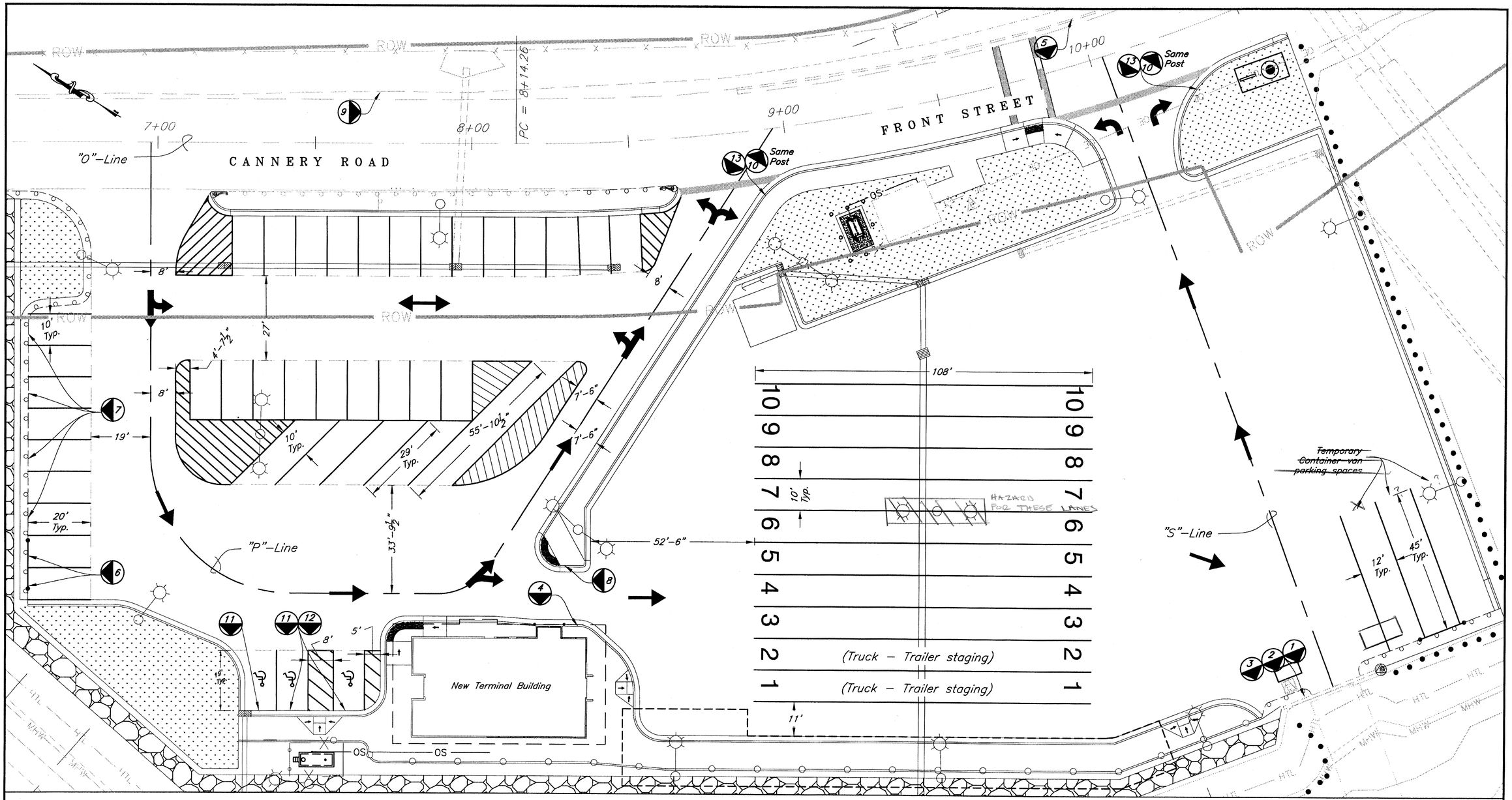
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

MISCELLANEOUS DETAILS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AK-04-0013 / 67813	2009	24	27



NOTES:

1. *Painted traffic marking widths are as follows:*
   - *4–Inch Blue wheelchair accessible symbol & painted islands*
   - *4–Inch White wheelchair accessible parking*
   - *4–Inch Yellow diagonal parking & painted islands*
   - *2–Foot White stop bar*
2. *Standard location of sign posts shall be behind back of curb, unless directed otherwise in plans or by Engineer. See Sheet 26 for special sign details.*
3. *Do not paint Centerline within the parking & staging areas; alignments are provided for layout purposes only.*

Legend

Sign

Direction of view to sign

Sign number

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
Joel D. Osburn
CE–11014
REGISTERED PROFESSIONAL ENGINEER
11-20-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

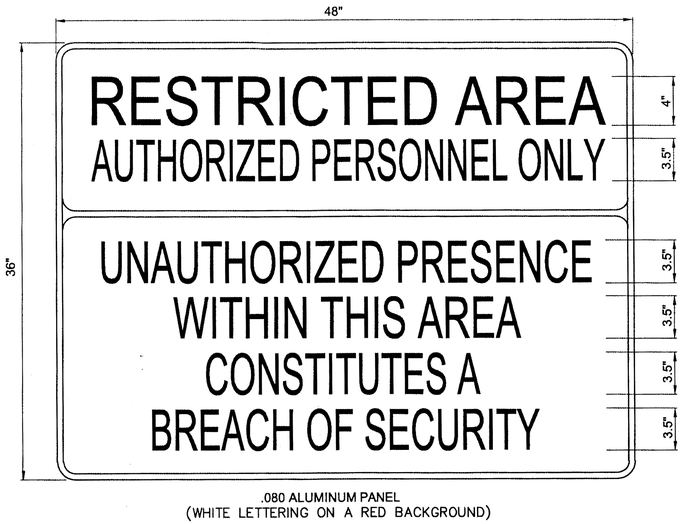
STRIPING & SIGNING PLAN

PER PLAN

PATH: Q:\HNH\67813\MF\PLANSET_PLANSET A\25 – STRIPING & SIGNAGE PLAN.DWG
TAB: Fri, 20/Nov/09 09:27AM OSBURN, JOEL D (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

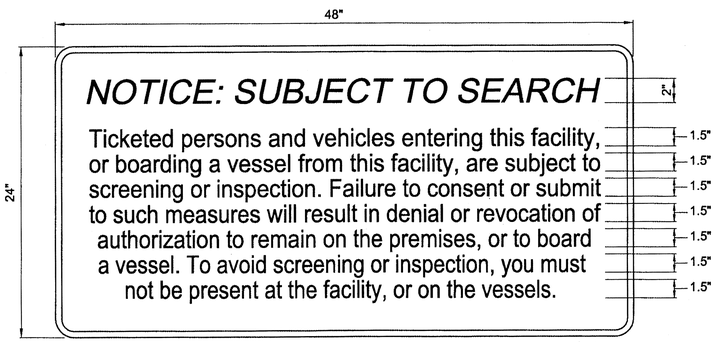
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	25	27



.080 ALUMINUM PANEL
(WHITE LETTERING ON A RED BACKGROUND)

1 SPECIAL LARGE RESTRICTED AREA SIGN DETAILS

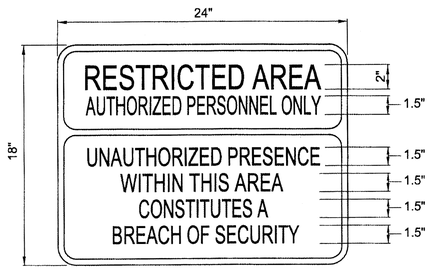
(3 Req'd.)



.080 ALUMINUM PANEL
(WHITE LETTERING ON A RED BACKGROUND)

2 SPECIAL SUBJECT TO SEARCH SIGN DETAILS

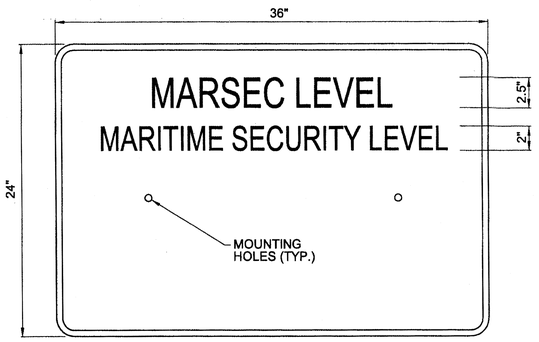
(3 Req'd.)



.080 ALUMINUM PANEL
(WHITE LETTERING ON A RED BACKGROUND)

3 SPECIAL SMALL RESTRICTED AREA SIGN DETAILS

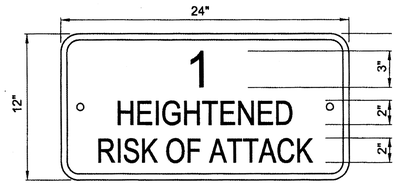
(4 Req'd.)



.080 ALUMINUM PANEL
(WHITE LETTERING ON A GREEN BACKGROUND)

4 MARSEC SIGN DETAILS

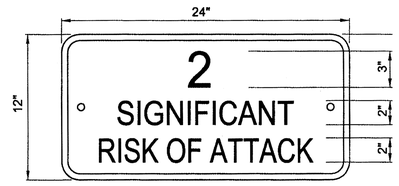
(3 Req'd.)



.040 ALUMINUM PANEL
(BLACK LETTERING ON A YELLOW BACKGROUND)

A

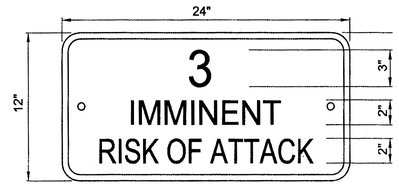
(3 Req'd.)



.040 ALUMINUM PANEL
(BLACK LETTERING ON A ORANGE BACKGROUND)

B

(3 Req'd.)



.040 ALUMINUM PANEL
(WHITE LETTERING ON A RED BACKGROUND)

C

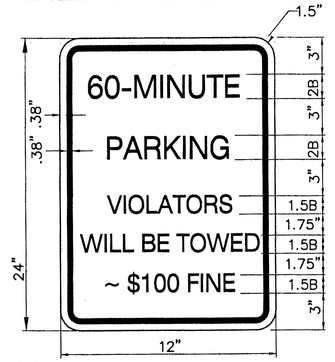
(3 Req'd.)



E4-11

5 STANDARD SIGN DETAILS

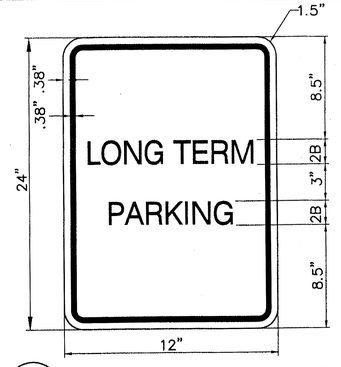
35"x12" (1 Req'd.)



6 SPECIAL SIGN DETAILS

(2 Req'd.)

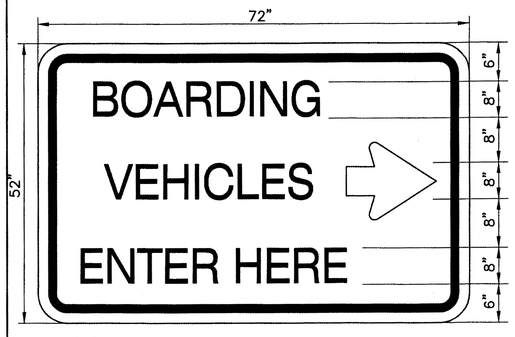
SPECIAL BORDER & LEGEND: GREEN
BACKGROUND: WHITE



7 SPECIAL SIGN DETAILS

(4 Req'd.)

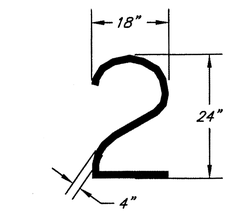
SPECIAL BORDER & LEGEND: GREEN
BACKGROUND: WHITE



8 SPECIAL SIGN DETAILS

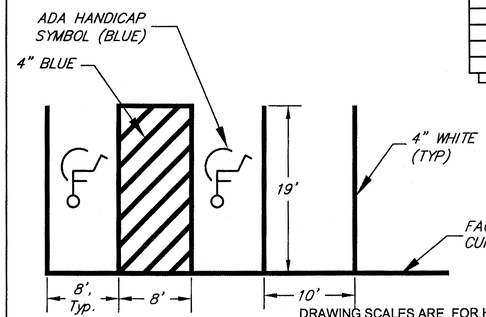
(1 Req'd.)

SPECIAL BORDER & LEGEND: GREEN
BACKGROUND: WHITE



SPECIAL MARKING DETAIL
TYPICAL LANE NUMBERING

STANDARD SIGNS		
#	DESCRIPTION	ASDS CODE
9	FERRY SYMBOL	I-8
10	DO NOT ENTER	R5-1
11	RESERVED PARKING	R7-8
12	VAN ACCESSIBLE	R7-8A
13	STOP	R1-1



SPECIAL MARKING/ SIGNING DETAIL
TYPICAL HANDICAP STALL SPACE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff
PATH: Q:\HNH\67813\MF\PLANSET_PLANSET A\26 - SPECIAL SIGNS.DWG
TAB: Fri, 20/Nov/09 09:49AM OSBURN, JOEL D (DOT)

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-20-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

Hoonah Ferry Terminal Improvements

SPECIAL SIGNS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AK-04-0013 / 67813	2009	26	27

U.S.S 4539
LOT 4
CITY OF HOONAH

U.S.S 1929
CITY OF HOONAH

CANNERY ROAD

FRONT STREET

A.T.S. 29
PARCEL 1
CITY OF HOONAH
Marine Industrial Center

A.T.S. 29
STATE OF ALASKA DOT&PF

New Terminal Building

EELGRASS

PORT FREDERICK

Silt Boom

0 50 100

LEGEND:

- EXISTING SURFACE DRAINAGE VECTOR:
- PROPOSED SURFACE DRAINAGE VECTOR:
- EXISTING CULVERT FLOW VECTOR:
- PROPOSED CULVERT FLOW VECTOR:
- PROPOSED HIGH POINT GRADE BREAK:
- PROPOSED LOW POINT GRADE BREAK:
- INLET PROTECTION:
- SILT BARRIER SB SB

DRAWING SCALES ARE FOR HALF-SIZE SHEETS. IF NO SCALE SHOWN, USE DIMENSIONS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE J. Osburn Date 2/16/11

DESIGNED BY: J. Osburn
CHECKED BY: K. Miller
DRAWN BY: Staff

STATE OF ALASKA
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

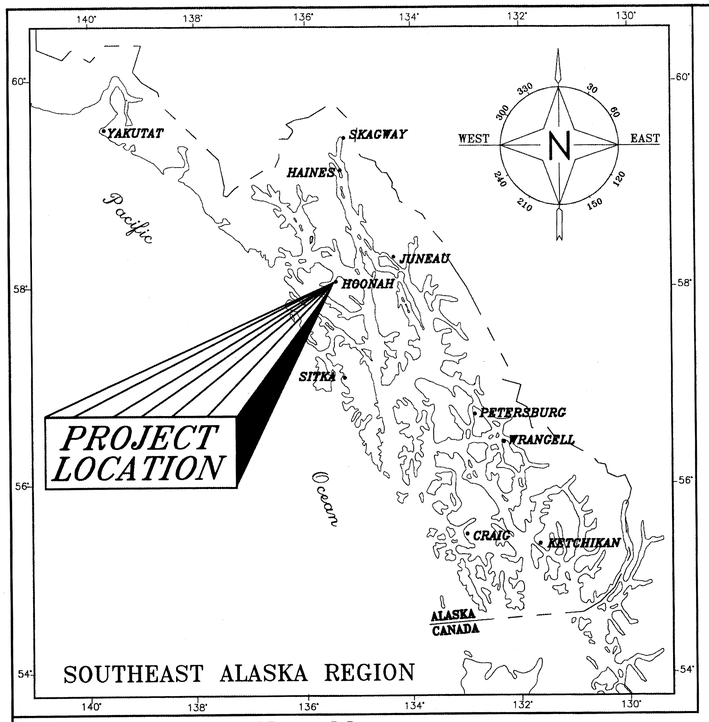
Hoonah Ferry Terminal Improvements

ESCP Sheet

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TAB: Tue, 17/Nov/09 04:01PM OSBURN, JOEL D (DOT)

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AK-04-0013 / 67813	2009	27	27



Key Map

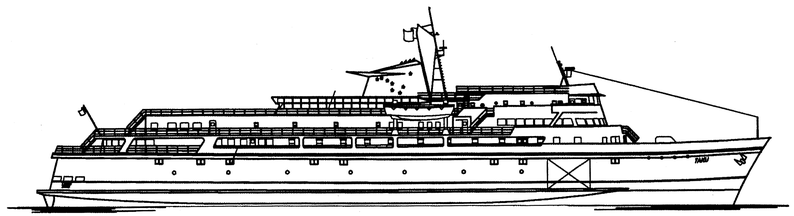
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

A PROJECT AT

HOONAH, ALASKA

HOONAH FERRY TERMINAL IMPROVEMENTS

PROJECT NO. 67813 / AK-04-0013



PLANSET A: Ferry Terminal Uplands & Sewer Mainline Extension

INDEX OF SHEETS

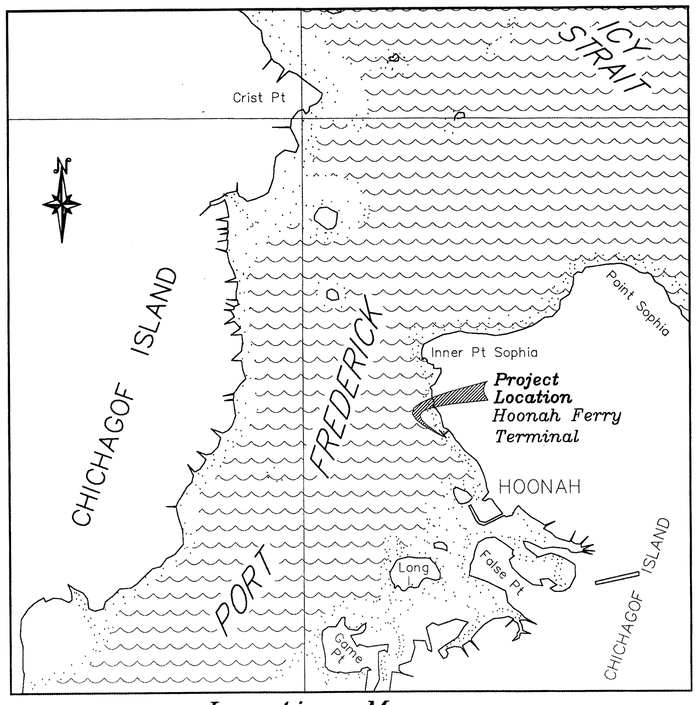
SHEET NO.	DESCRIPTION
1	Title Sheet
2	Existing Site Plan
3	Proposed Site Plan
4	Typical Sections
5	Alignment Tables
6	Miscellaneous Summaries
7	Construction Sequencing Plan
8–9	Site Layout Plan
10	Waterline Plan, Profile, Details & Manhole Details
11–12	Sanitary Sewer Plan & Profile Sheets
13	Lift Station & Arctic Pipe Details
14	Lift Station Shelter Elevation & Details
15	Underground Tank Replacement Plan
16	Generator Building AST Details
17–18	Storage Shed Plan & Details
19	Pursers Shelter Elevation & Details
20	ADDITIVE ALTERNATE A: Covered Walkway Structure Elevation & Details
21–24	Miscellaneous Details
25	Striping & Signing Plan
26	Special Signs
27	ESCP Sheet

The following ADOT&PF Standard Drawings apply to this project:

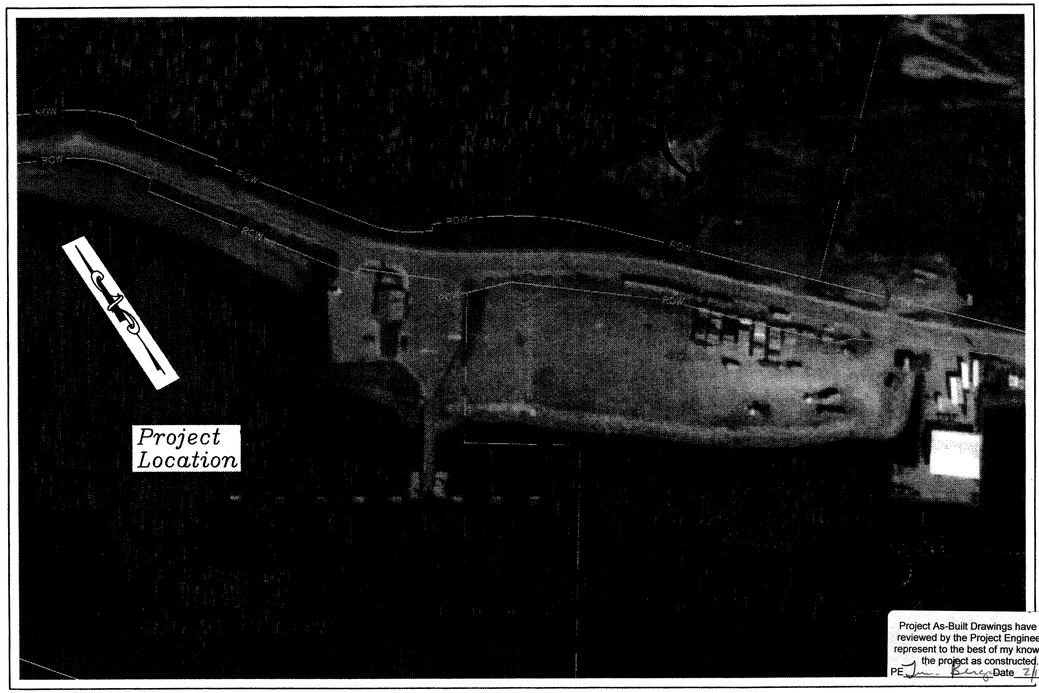
F-01.01	G-04.06S	I-21.01
F-03.01	G-10.01	I-22.01
G-00.01	I-20.13	I-30.10
		S-05.01

The following CBJ Standard Drawings apply to this project:

126 203 407



Location Map



Vicinity Map

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/6/14

TIDAL DATA (ft)
HOONAH

EHW	+20.0
HTL	+19.3
MHHW	+14.8
MHW	+13.9
MLW	+1.5
MLLW	0.0
ELW	-5.1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED _____ Date 11/19/09
Regional Reconstruction Engineer
Victor L. Winters, P.E.

APPROVED _____ Date 11/19/09
Director, S.E. Region
Gary L. Davis

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:
_____ Date 10-28-13
Construction Project Manager

PROJECT NUMBER:
67813/AK-04-0013

DATE:
November, 2009

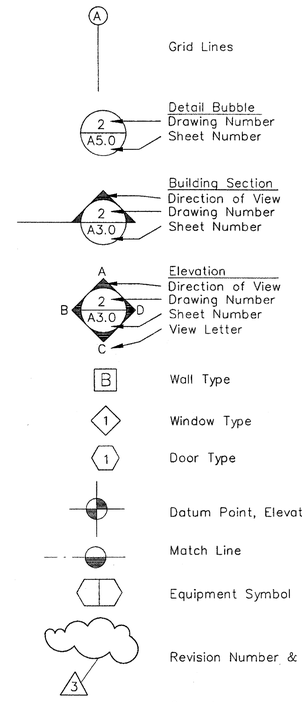
SHEET 1 OF 27

STATE OF ALASKA
49th
Joel D. Osburn
CE-11014
REGISTERED PROFESSIONAL ENGINEER
11-19-09

SCALE : 1 = 1

Q:\HNS\75249\Phase-B\Sh101-Proj-Title-Index.dwg

DRAWING SYMBOLS



ABBREVIATIONS

AB	Anchor Bolt	L.	Length, Long
ACOUS.	Acoustical	LAM	Laminate, Laminated
ACT	Acoustical Tile	LAV.	Lavatory
ADA.	Americans with Disabilities Act	LF	Lineal Feet
ADJ.	Adjustable	LH	Left Hand
AFF	Above Finished Floor	LT	Light
AGGR.	Aggregate		
AL., ALUM.	Aluminum	MAT'L	Material
ANOD.	Anodized	MAX.	Maximum
APPROX.	Approximate	MB	Machine Bolt
ARCH.	Architectural	MECH.	Mechanical
		MEMB.	Membrane
BD.	Board	MEZZ.	Mezzanine
BTWN.	Between	MTL.	Metal
BITUM.	Bituminous	MFR.	Manufacturer
BLDG.	Building	MIN.	Minimum
BLK.	Block	MIR.	Mirror
BLKG.	Blocking	MISC.	Miscellaneous
BM.	Beam	MTD.	Mounted
BOT.	Bottom		
		N.	North
CAB.	Cabinet	NIC	Not In Contract
CHAMF.	Chamfer	NO., (#)	Number
CIP	Cast In Place	NOM.	Nominal
CLG.	Ceiling	NTS	Not To Scale
CLO.	Closet		
CLR.	Clear	OC	On Center
COL.	Column	OD	Outside Diameter
CONC.	Concrete	OFF.	Office
CONN.	Connection	OH	Overhang
CONSTR.	Construction	OPNG	Opening
CONT.	Continuous	O.T.S.	Open to Structure
CORR.	Corridor	OPNG.	Opening
CPT.	Carpet	OPP.	Opposite
CSS	Clear Sanding Sealer		
CTSK.	Countersunk	P.BD.	Particle Board
CT	Ceramic Tile	PERF	Perforated
CTR.	Center	PL	Property Line, Plate
		P. LAM.	Plastic Laminate
DTL.	Detail	PLYWD.	Plywood
DEMO.	Demolition	PNL	Panel
DF	Drinking Fountain	PNT	Paint
DIA.	Diameter	PR.	Pair
DIAG.	Diagonal	PSF	Pounds per Square Foot
DIM.	Dimension	PSI	Pounds per Square Inch
DISP.	Dispenser	PT	Paint
DN	Down	P.T.	Pressure Treated
DR.	Door		
DS.	Downspout	R	Riser
DW	Dishwasher	RAD.	Radius
DWG.	Drawing	RBR	Rubber
		REF.	Reference, Refrigerator
E.	East	REFL.	Reflected
EA.	Each	RGTR.	Register
EXP. JT.	Expansion Joint	REINF.	Reinforced
ELEC.	Electrical	REQ.	Required
ELEV.	Elevator, Elevation	RESIL.	Resilient
EM	Entry Mat	RH	Right Hand
EMER.	Emergency	RM.	Room
ENCL.	Enclosure	RO	Rough Opening
EQ.	Equal	R.O.W.	Right of Way
EQUIP.	Equipment	RT	Resilient Tile
EXIST.	Existing		
EXP.	Expanded, Expansion	S.	South
EXT.	Exterior	SC	Solid Core
		SCHED.	Schedule
FA	Fire Alarm	SEAL.	Sealant
FD	Floor Drain	SECT.	Section
FDN.	Foundation	SHR.	Shower
FE	Fire Extinguisher	SHT.	Sheet
F.E.C.	Fire Extinguisher Cabinet	SIM.	Similar
FF	Factory Finish	SPEC.	Specification
FIN.	Finish	SQ.	Square
FLR.	Floor	SQ. FT.	Square Foot (Feet)
FLASH.	Flashing	SQ. IN.	Square Inch (es)
FLUOR.	Fluorescent	SST.	Stainless Steel
FOC	Face Of Column, or Concrete	STA.	Station
FOF	Face Of Finish	STD.	Standard
FOS	Face Of Studs	STL.	Steel
FRP	Fiberglass Reinforced Panel	STOR.	Storage
FT.	Foot or Feet	STRUCT.	Structural, Structure
FTG.	Footing	SUSP.	Suspended
		SYM.	Symmetrical
GA.	Gauge	S.V.	Sheet Vinyl
GALV.	Galvanized		
Glu–Lam	Glue–Laminated	T., TRD.	Tread
GL.	Glass, Glazing	T.&G.	Tongue and Groove
GWB	Gypsum Wall Board	TEL.	Telephone
GYP.	Gypsum	TEMP.	Tempered
		TER.	Terrazzo
HB	Hose Bibb	THRESH.	Threshold
HC	Hollow Core	T.JT.	Tooled Joint
HD.	Head	TOS	Top of Slab
HDR.	Header	T.S.	Tube Steel
HM	Hollow Metal	TYP.	Typical
HORIZ.	Horizontal		
HR.	Hour	UL	Underwriters' Laboratories
HT.	Height	UNFIN.	Unfinished
HTG.	Heating	UON	Unless Otherwise Noted
H.V.A.C.	Heat/Ventilation/Air Conditioning		
HW	Hot Water	VT	Vinyl Tile
HWT	Hot Water Tank	VERT.	Vertical
ID	Inside Diameter	W.	West
IHM	Insulated Hollow Metal	W/	With
IN.	Inch	WC	Water Closet
INC.	Including	WD.	Wood
INSUL.	Insulation	WDO.	Window
INT.	Interior	W/O	Without
		WL	Water Line
JB	Junction Box		
JC	Janitor's Closet	WT.	Weight
		WWF	Welded Wire Fabric
KIT.	Kitchen	WWM	Welded Wire Mesh

CODE ANALYSIS

CODE: International Building Code – 2006

A. USE AND OCCUPANCY CLASSIFICATION (Chapter 3):

Proposed: A–3: Ferry Passenger Waiting Terminal (Transportation Terminal)

B. TYPE OF CONSTRUCTION (Chapter 6):

Proposed: V–B

Type V–B Description: Structural Elements, Exterior Walls and Interior Walls may be of Any Material Permitted by Code. (Section 602.5 & Table 601).

Fire Resistive Rating for Building Elements (Table 601):

Structural Frame:	0
Bearing Walls:	
Exterior:	0
Interior:	0
Floor Construction:	0
Roof Construction:	0

C. ALLOWABLE HEIGHT (Table 503):

Proposed: 1 Story / 18'–0"

Allowed (A–3): 1 Story (40')

D. ALLOWABLE FLOOR AREA (Table 503):

Proposed: 1,792 s.f. – Interior

Allowed (basic) (A–3): 6,000 sf per Floor

E. OCCUPANT LOAD CALCULATIONS: (Table 1003.2.2.2)

	Occupancy	Area	Factor	Occupant Load
Waiting Area	"Assembly–Standing"	931 sf	5 net	186.2
Ticketing Area/Office	"Business"	227 sf	100 gross	2.3
Storage / Janitor	"Storage Areas, Mechanical"	140 sf	300 gross	0.5
Restrooms		352 sf	–	0
			Total Building Occupant Load:	189

F. Fire Resistive Rating for Exterior Walls Based on Fire Separation: (Table 602):

Distance from Exterior Wall to Property Line	Required Rating (Group A–3)
Less than 5'	1 Hr.
Greater than or equal to 5', Less than 10'	1 Hr.
Greater than or equal to 10', Less than 30'	0
Greater than 30'	0

Elevation	Actual Distance	Rating Required
N	> 30'	0
S	> 30'	0
E	> 30'	0
W	> 30'	0

G. OTHER:

IBC 1016 – Exit Access Travel Distance – 200' maximum (without sprinkler system)
Proposed Maximum Travel Distance = 40'

Sprinkler System not required for A–3 Occupancy because (IBC 903.2.1.3):
1) Area is less than 12,000 sf.
2) Occupany load is less than 300.
3) Fire area is on same level as exit discharge.

Fire Alarm System not required for A–3 Occupancy because occupancy load is less than 300 (IBC 907.2.1).

GENERAL NOTES

1. All work shall be done in accordance with the International Building Code – 2006 (IBC), International Fire Code – 2006 (IFC), International Mechanical Code – 2006 (IMC), Uniform Plumbing Code (UPC), and National Electrical Code – 2008 (NEC), as amended by the State of Alaska, and the Americans with Disabilities Act (ADA).

2. Contractor shall verify all site conditions and building dimensions, and locate underground Utilities or Miscellaneous Lines prior to proceeding with the Work. Any variation from the Conditions and Dimensions shown on the drawings shall be reported to the Owner's Representative for resolution prior to construction.

3. Written dimensions shall take precedence over scaled dimensions. Dimensions are to the centerline of columns, and to the face of framing on wall construction, unless otherwise noted.

PARTICIPANTS

OWNER: State of Alaska
Department of Transportation &
Public Facilities
Statewide Marine Engineering
P.O. Box 112506
Juneau, AK 99811–2506
Joel Osburn, PE
(907) 465–4409 Tel. / X Fax

ARCHITECT: Welsh Whiteley Architects, LLC
320 Dock Street #215
Ketchikan, AK 99901
Tim Whiteley, AIA
(907) 225–2412 Tel. / 225–2422 Fax

CIVIL ENGINEER: PND Engineers, Inc.
9360 Glacier Highway, Suite 100
Juneau, AK 99801
Chris Gianotti, PE
(907) 586–2093 Tel. / 586–2099 Fax

STRUCTURAL ENGINEER: PND Engineers, Inc.
9360 Glacier Highway, Suite 100
Juneau, AK 99801
Chris Gianotti, PE & Brian Nielsen, PE
(907) 586–2093 Tel. / 586–2099 Fax

MECHANICAL ENGINEER: Murray & Associates, P.C.
P.O. Box 21081
Juneau, AK 99801
Doug Murray, PE
(907) 780–6151 Tel. / 780–6182 Fax

ELECTRICAL ENGINEER: Nelson Electrical Engineering
3710 Justice Court
Ketchikan, AK 99901
Keith Nelson, PE
(907) 225–2951 Tel./ Fax

SCOPE OF PROJECT

Construction of an 1,800 s.f., wood framed, single story passenger waiting terminal building at the Hoonah Ferry Terminal to replace the existing terminal building.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/16/14

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: TW

STATE OF ALASKA – 49TH – Timothy Whiteley – No. A–9429 – REGISTERED PROFESSIONAL ENGINEER – JUNE 8, 2009

CHECKED BY:

DRAWN BY:

PATH:

PLOT:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal

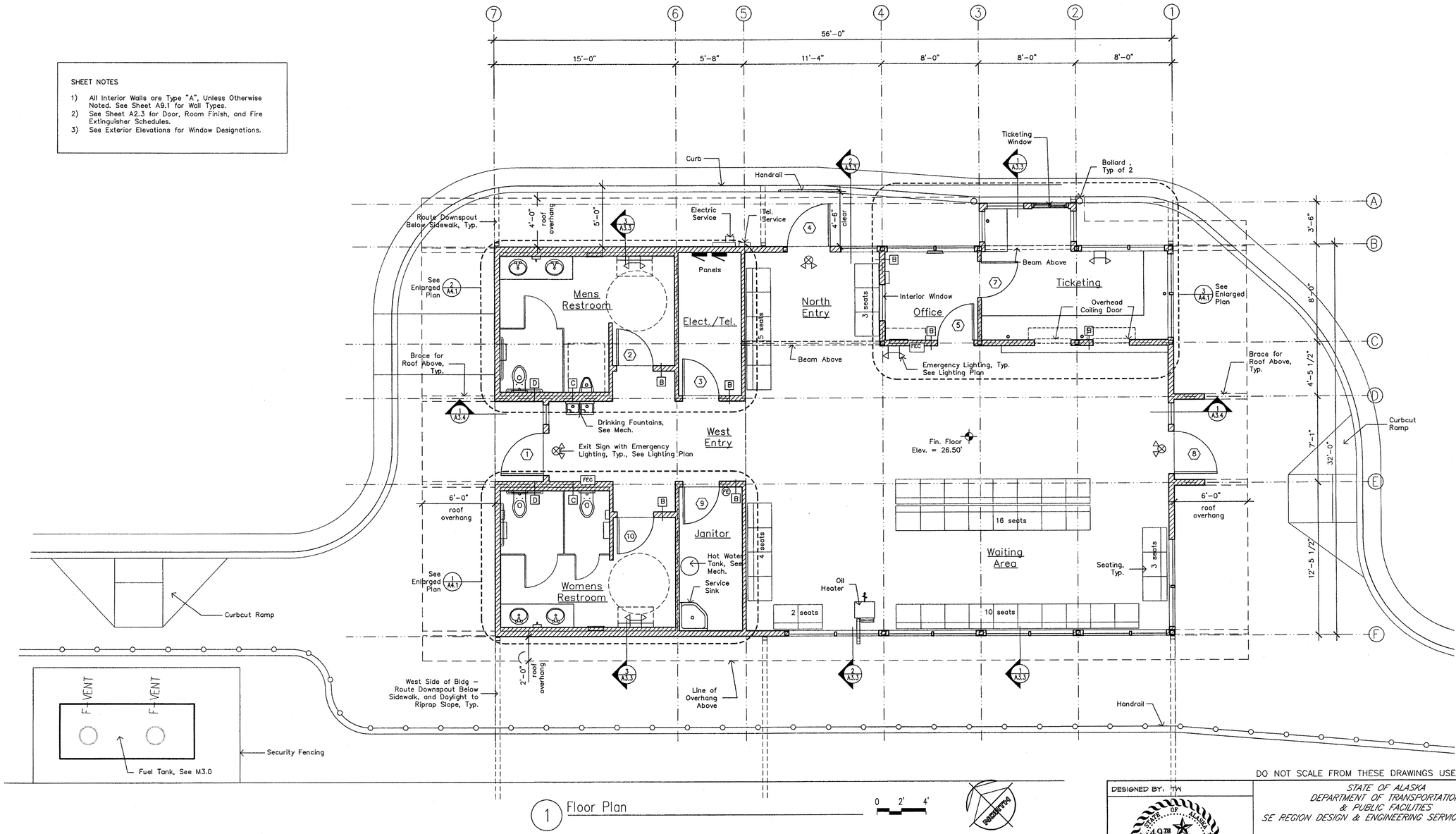
Project

Project Information

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67813	2009	A0.1	52

SHEET NOTES

1) All Interior Walls are Type "A", Unless Otherwise Noted. See Sheet A9.1 for Wall Types.
2) See Sheet A2.3 for Door, Room Finish, and Fire Extinguisher Schedules.
3) See Exterior Elevations for Window Designations.



1 Floor Plan

0 2' 4'

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/16/10

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DESIGNED BY: TW
CHECKED BY: TW
DRAWN BY: SM, DT, TW
PATH:
PLOT:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

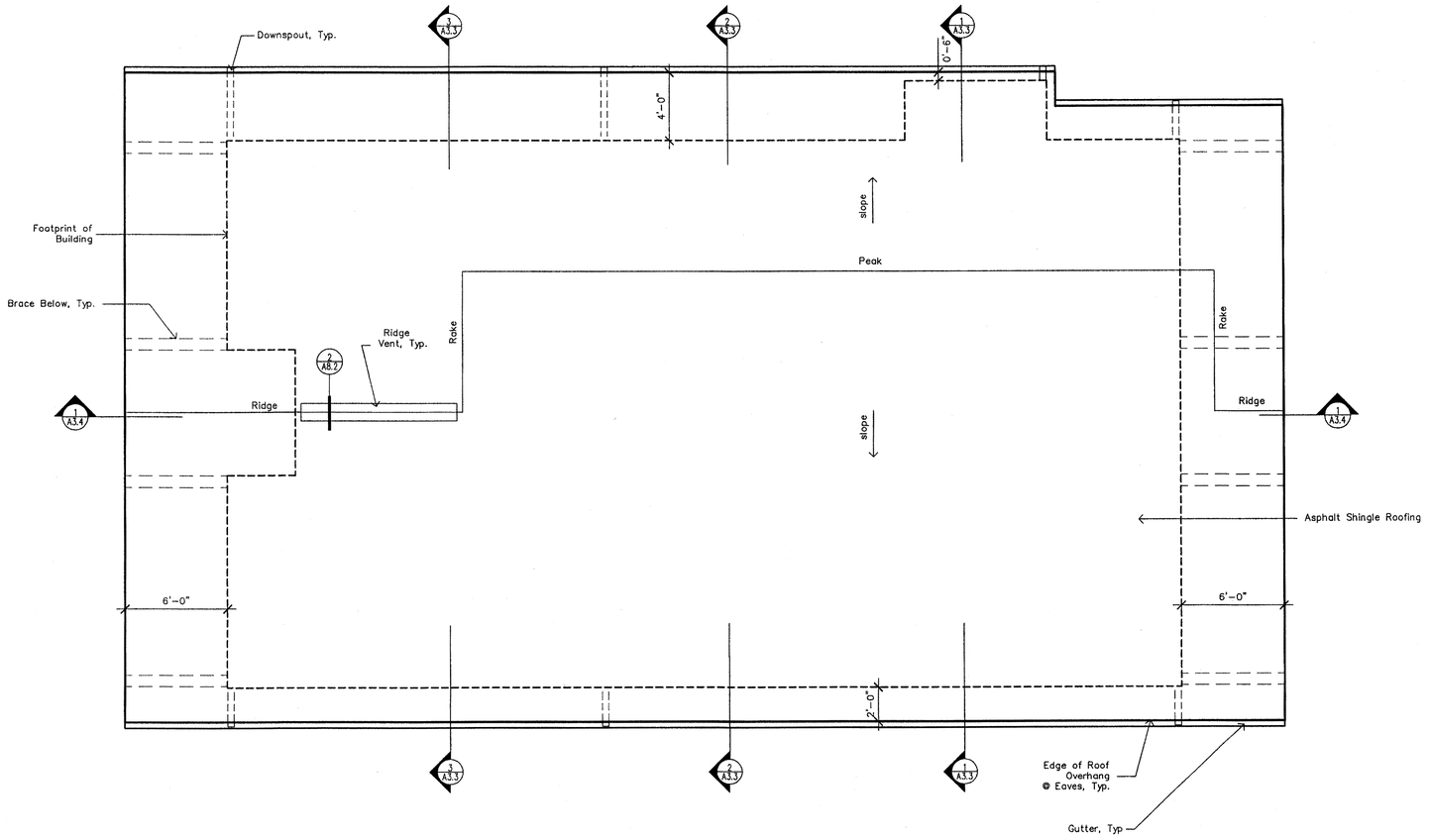
STATE OF ALASKA 49TH Timothy Whiteley No. A-9429 REGISTERED ARCHITECT
JUNE 8, 2009

Hoonah Ferry Terminal

Project

Floor Plan

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
2	10/07/09	REVISION	67813	2009	A2.1	52



1 Roof Plan

0 2' 4'

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/14/11

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DESIGNED BY: TW
CHECKED BY: TW
DRAWN BY: SM, DT, TW
PATH:
PLOT:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA · 49TH · Timothy Whiteley · No. A-9429 · REGISTERED PROFESSIONAL ARCHITECT · JUNE 8, 2009

Hoonah Ferry Terminal

Project

Roof Plan

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67813	2009	A2.2	52
2	10/07/09	REVISION				

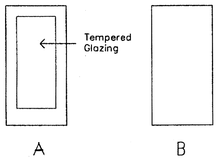
FIRE EXTINGUISHER SCHEDULE

Designation	Description	Attachment
FE	5 lb. 3-A:40-B:C	Wall Strap
FEC	10 lb. 4-A:60-B:C	Semi-recessed Wall Cabinet

DOOR SCHEDULE (See Sheet A0.1 for Abbreviations)

	Size (W x H)	Type	Thick.	Construction Door	Construction Frame	Details Head	Details Jamb	Details Sill	HDWR	Remarks
1	3'-6" x 7'-0"	A	1-3/4"	ALUM	ALUM	8A/A8.3	8A/A8.3	8B/A8.3	1	
2	3'-0" x 7'-0"	B	1-3/4"	WD	HM	1/A9.1	1/A9.1	2/A9.1	2	
3	3'-0" x 7'-0"	B	1-3/4"	HM	HM	3/A9.1	3/A9.1	2/A9.1	3	
4	3'-6" x 7'-0"	A	1-3/4"	ALUM	ALUM	8A/A8.3	8A/A8.3	8B/A8.3	1	
5	3'-0" x 7'-0"	B	1-3/4"	WD	WD	1/A9.1	1/A9.1	2/A9.1	4	
6										NOT USED
7	3'-0" x 7'-0"	B	1-3/4"	WD	WD	1/A9.1	1/A9.1	2/A9.1	4	
8	3'-6" x 7'-0"	A	1-3/4"	ALUM	ALUM	8A/A8.3	8A/A8.3	8B/A8.3	1	
9	3'-0" x 7'-0"	B	1-3/4"	HM	HM	3/A9.1	3/A9.1	2/A9.1	3	
10	3'-0" x 7'-0"	B	1-3/4"	WD	HM	3/A9.1	3/A9.1	2/A9.1	2	

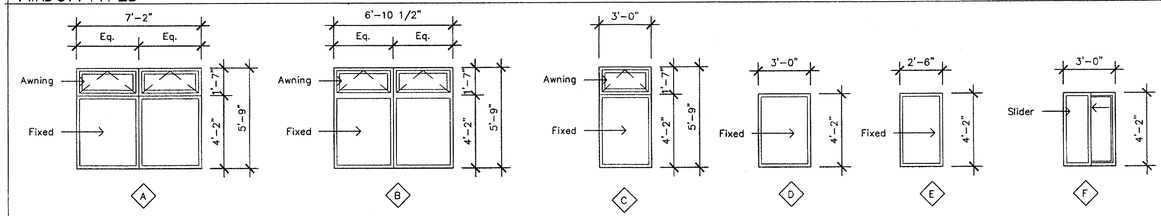
DOOR TYPES



ROOM FINISH SCHEDULE (See Sheet A0.1 for Abbreviations)

Location	Floor	Finish	Base	Finish	Walls	Finish	Ceiling	Finish	Notes
North Entry	Conc.	Seal*	Rbr	FF	GWB	PT	Wd	PT	
Mens Restroom	SV	FF	Rbr	FF	GWB/FRP	PT	GWB	PT	
Elect. / Tel.	Conc.	Seal	Rbr	FF	GWB	PT	GWB	PT	
West Entry	Conc.	Seal	Rbr	FF	GWB	PT	Wd	PT	
Waiting Area	Conc.	Seal	Rbr	FF	GWB	PT	Wd	PT	
Office	CPT	FF	Rbr	FF	GWB	PT	GWB	PT	
Ticketing	CPT	FF	Rbr	FF	GWB	PT	GWB	PT	
Women's Restroom	SV	FF	Rbr	FF	GWB/FRP	PT	GWB	PT	
Janitor	Conc.	Seal	Rbr	FF	GWB/FRP	PT	GWB	PT	

WINDOW TYPES



NOTES (comply with IBC Section 2406):
1.) Glass within 24" of Vertical Door Edge (in Closed Position) to be Safety Glazing

2.) Glass Located Less than 18-inches Above the Floor to be Safety Glazing.

3.) Glass Located within 60-inches Horizontally of a Stair Tread and Glass where an Exposed Bottom Edge is located Less Than 60-inches Above the Plane of the Adjacent Walking Surface or Stairway is to be Safety Glazing.

4.) Provide Horizontal Louver Blinds on Window Types 1 through 7.

5.) Contractor to Verify Rough Opening Sizes Before Producing Shop Drawings or Ordering Window Units.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/16/11

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DESIGNED BY: TW

STATE OF ALASKA · 40TH · Timothy Whiteley · No: A-9429 · REGISTERED PROFESSIONAL
JUNE 6, 2009

CHECKED BY:

DRAWN BY:

PATH:

PLOT:

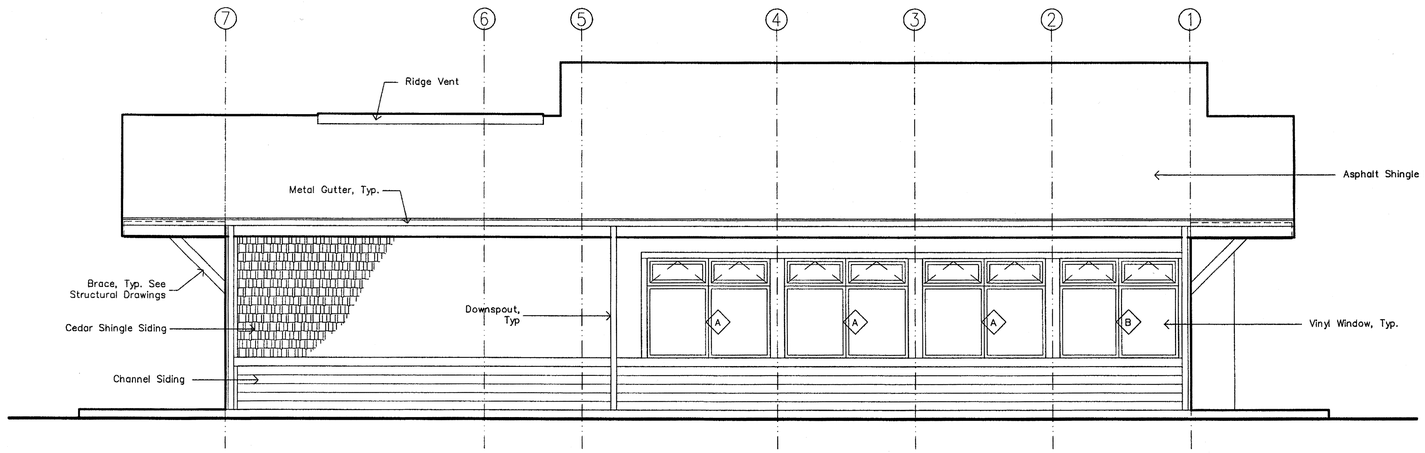
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal

Project

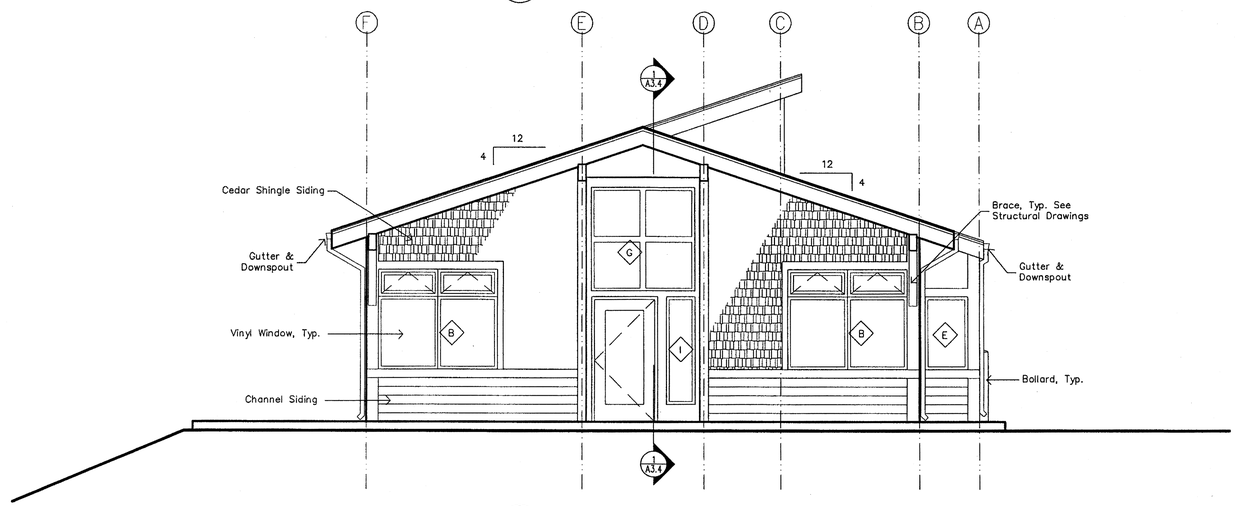
Schedules

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67813	2009	A2.3	52



1 West Elevation

0 2' 4'



2 South Elevation

0 2' 4'

SHEET NOTES

1) Refer to Roof Plan A2.2 for Snow Guards.
2) See Window Types on Sheet A2.3 for Window Sizes.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PE _____ Date 7/16/11

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Ketchikan, Alaska 99901
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DESIGNED BY: TW
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DRAWN BY: SM, DT, TW
PATH:
PLOT:

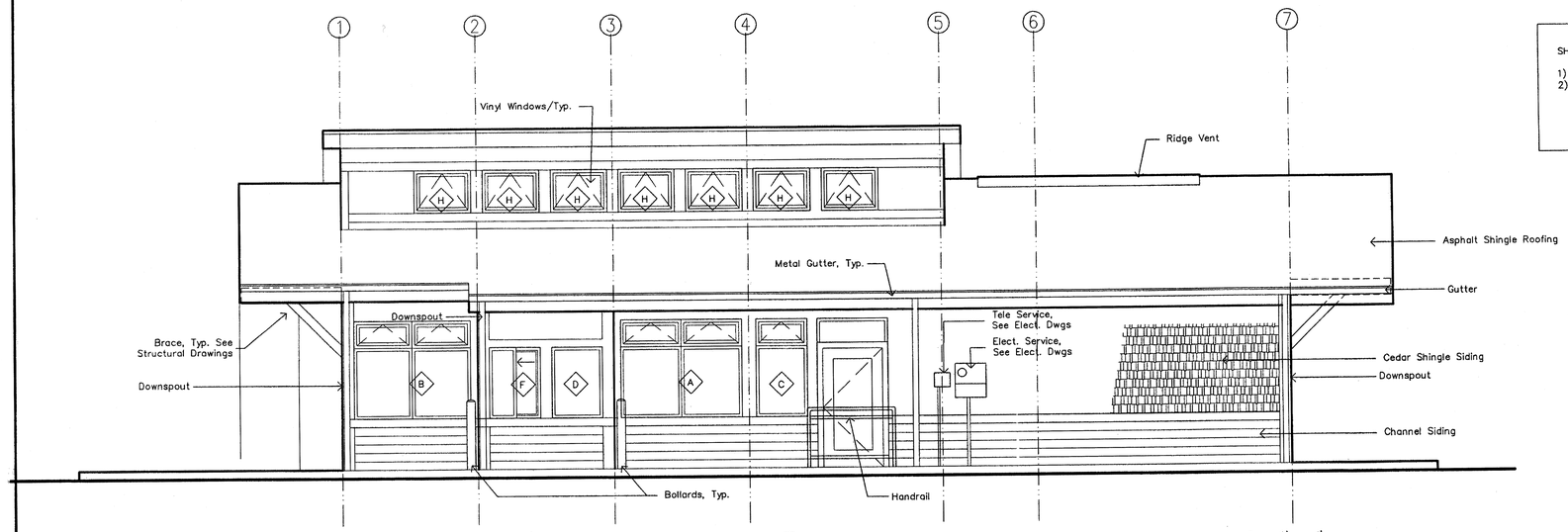
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& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal

Project

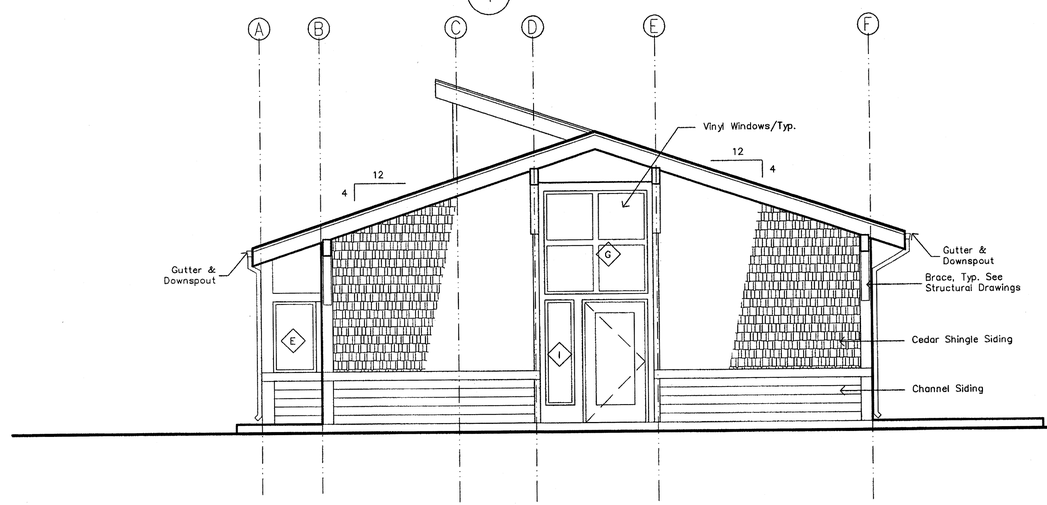
Exterior Elevations

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
2	10/07/09	REVISION	67813	2009	A3.1	52



1 East Elevation

0 2' 4'



2 North Elevation

0 2' 4'

SHEET NOTES

1) Refer to Roof Plan A2.2 for Snow Guards.
2) See Window Types on Sheet A2.3 for Window Sizes.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PE Date 2/16/11

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PLOT:

STATE OF ALASKA
49TH
Timothy Whiteley
No. A-9429
REGISTERED PROFESSIONAL ARCHITECT
JUNE 8, 2009

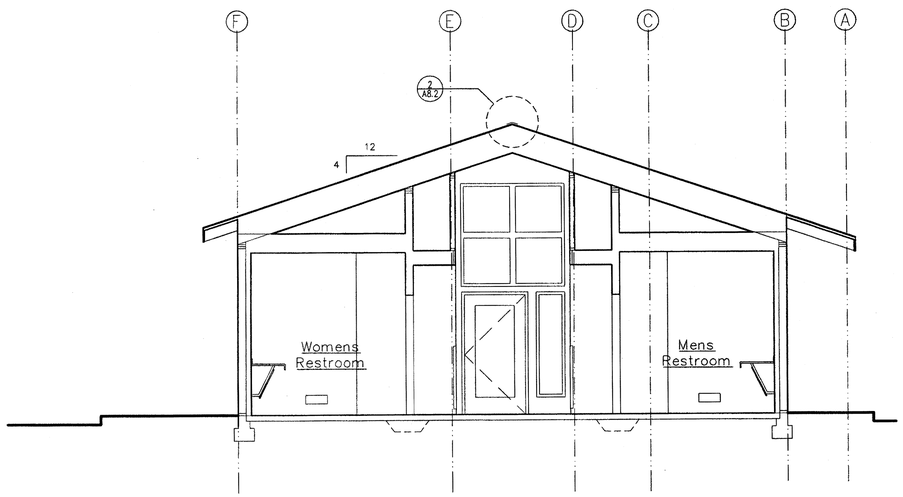
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Hoonah Ferry Terminal

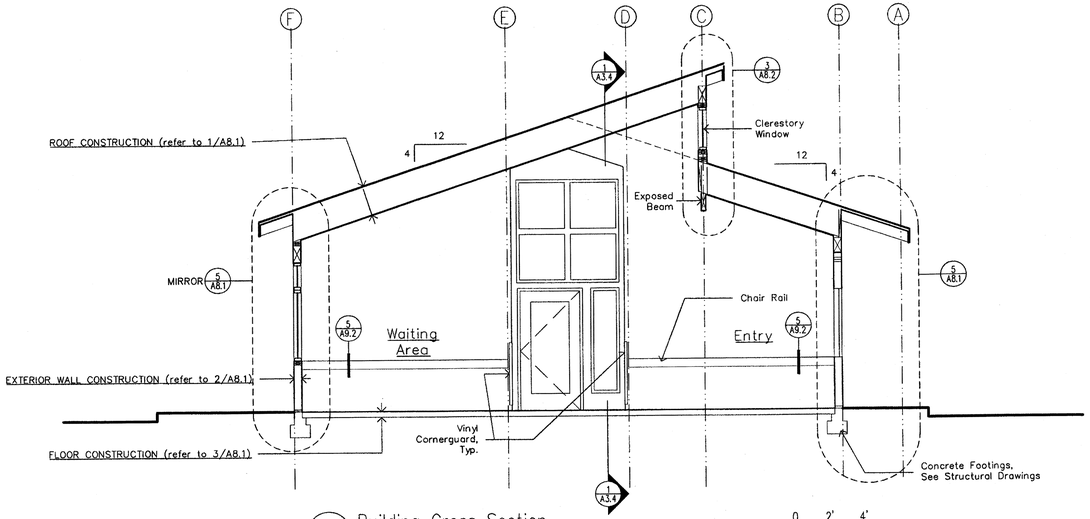
Project

Exterior Elevations

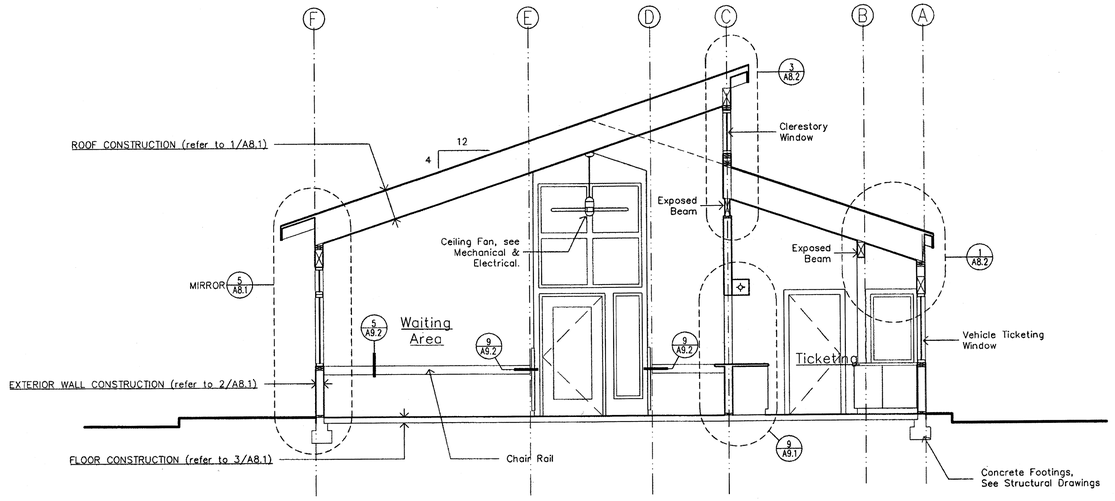
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67813	2009	A3.2	52
2	10/07/09	REVISION				



3 Building Cross Section 0 2' 4'



2 Building Cross Section 0 2' 4'



1 Building Cross Section 0 2' 4'

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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49TH
Timothy Whiteley
No. A-9428
REGISTERED PROFESSIONAL ARCHITECT
JUNE 8, 2009

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PLOT:

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Hoonah Ferry Terminal

Project

Building Sections

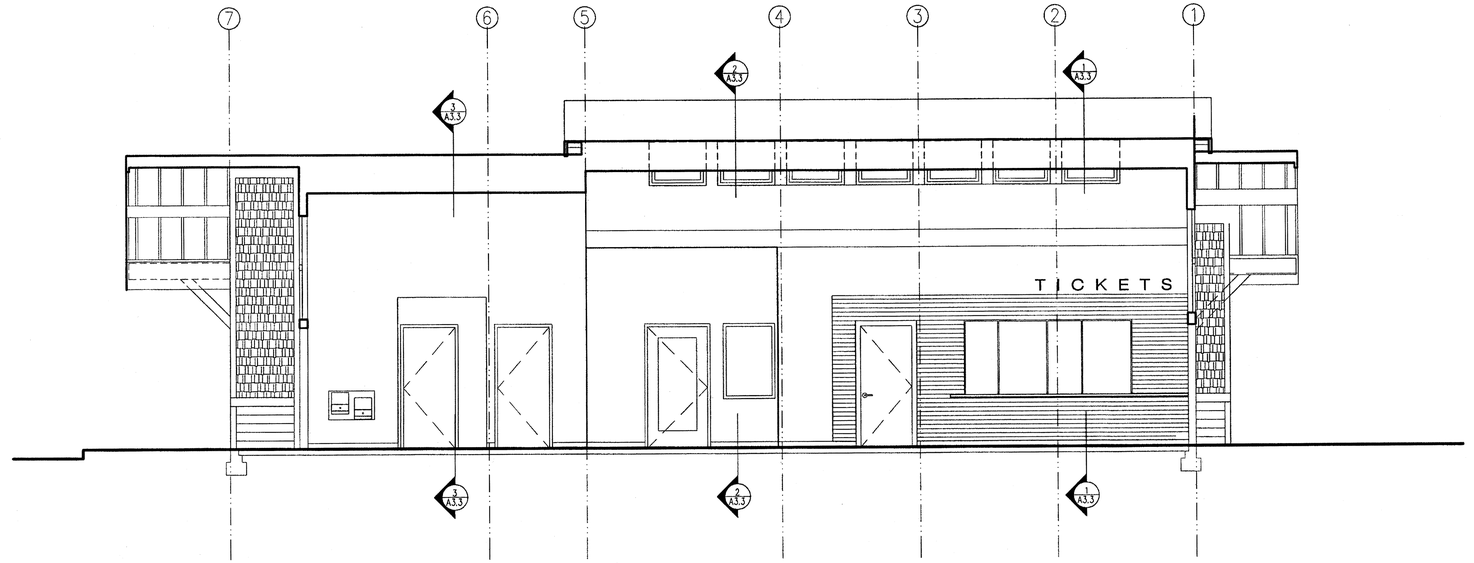
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/14/11

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320 Dock Street #215
Ketchikan, Alaska 99901
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67813	2009	A3.3	52

SHEET NOTES

1) Typical Roof Assembly refer to 1/A8.1
2) Typical Wall Assembly refer to 2/A8.1
3) Typical Floor Assembly refer to 3/A8.1



1 Building Longitudinal Section 0 2' 4'

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PE _____ Date 7/6/11

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JUNE 8, 2009

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PLOT:

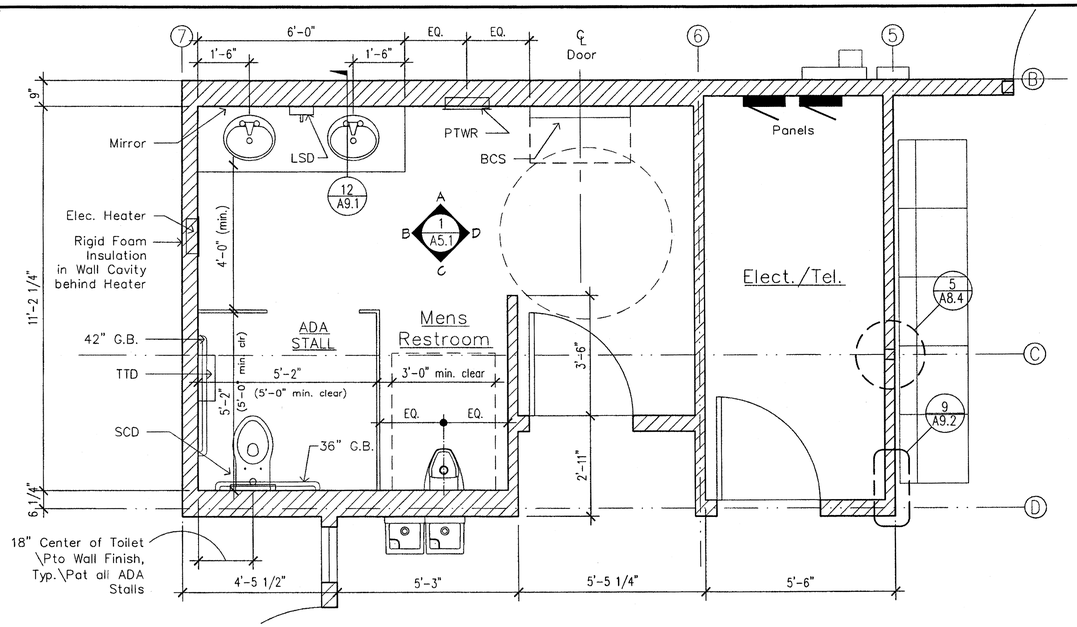
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Hoonah Ferry Terminal

Project

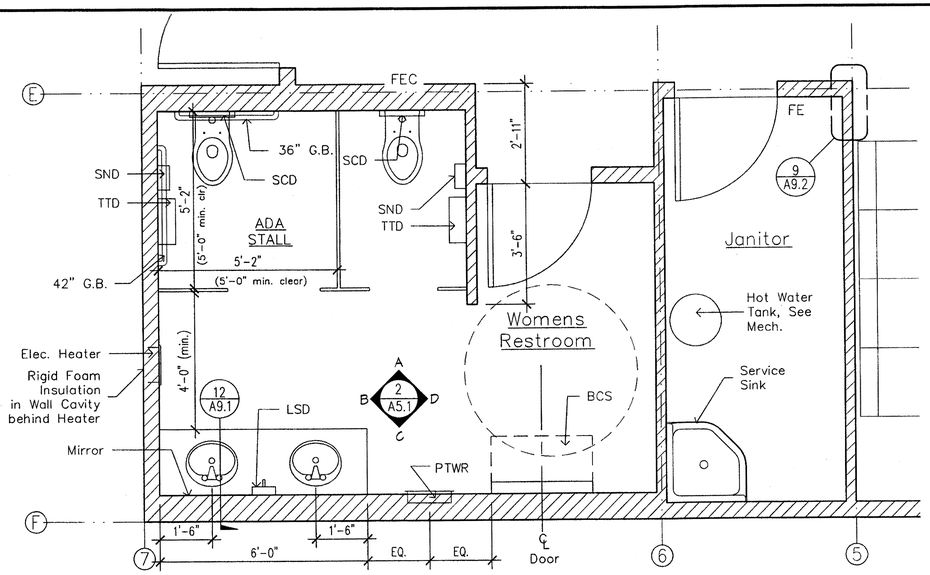
Building Section

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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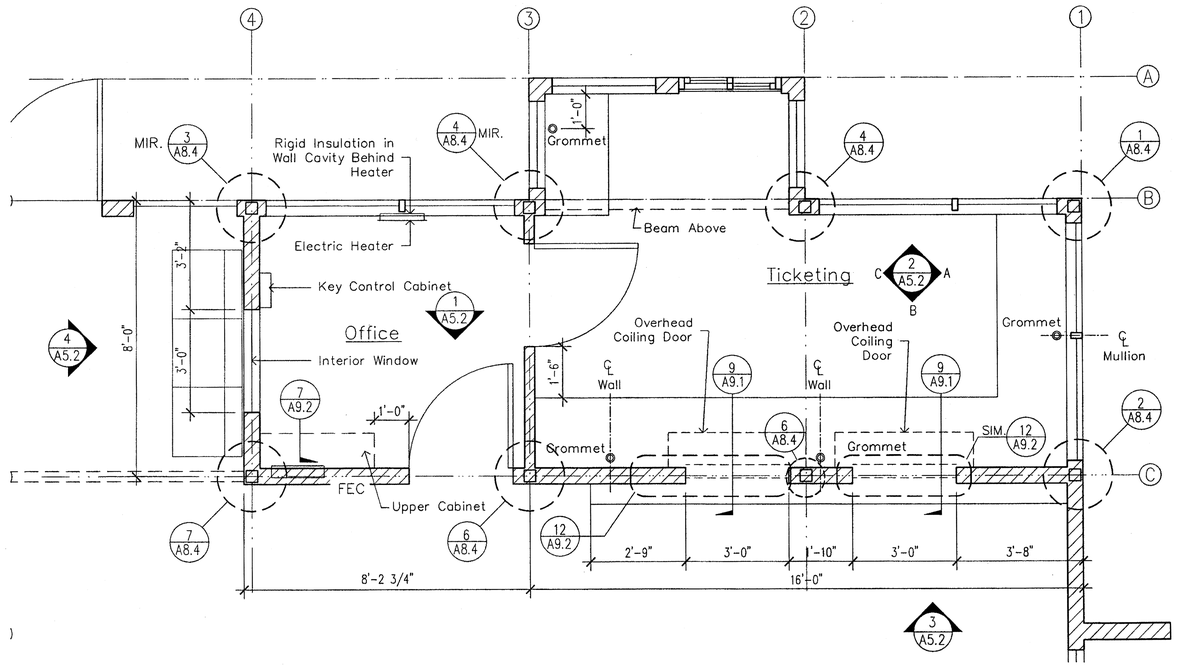
2 Enlarged Plan – Mens Restroom

0 6" 1' 2'



1 Enlarged Plan – Womens Restroom & Mechanical Room

0 6" 1' 2'



3 Enlarged Plan – Office & Ticketing

0 6" 1' 2'

See Elevations for Cabinet Detail References

TOILET ROOM ACCESSORIES ABBREVIATIONS	
PTWR	Paper Towel / Waste Receptacle
TTD	Toilet Tissue Dispenser
LSD	Liquid Soap Dispenser
G.B.	Grab Bar
SCD	Seat Cover Dispenser
SND	Sanitary Napkin Disposal
BCS	Baby Changing Station

SHEET NOTES:

See Sheet M1.0 for Fixture Schedule

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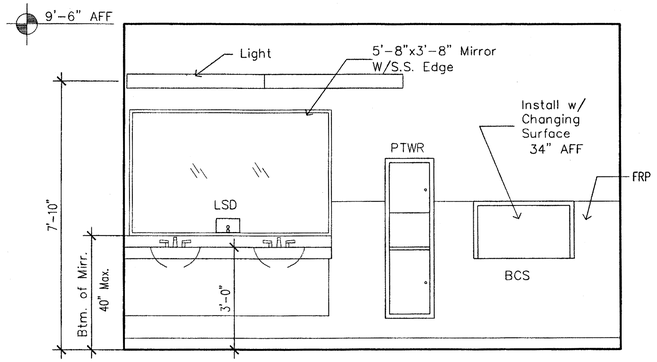
STATE OF ALASKA — 49TH — Timothy Whiteley — No. A-9439 — REGISTERED PROFESSIONAL DESIGNER — JUNE 8, 2009

Hoonah Ferry Terminal

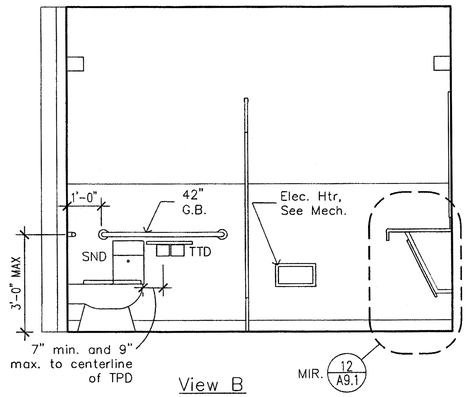
Project

Enlarged Plans

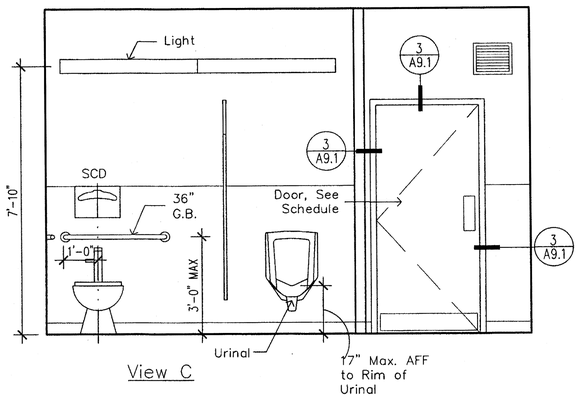
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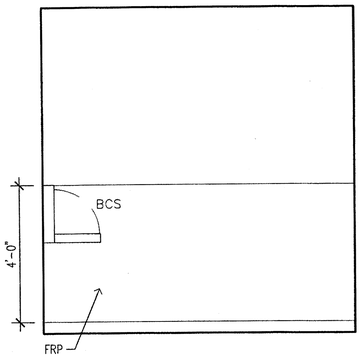
View A



View B



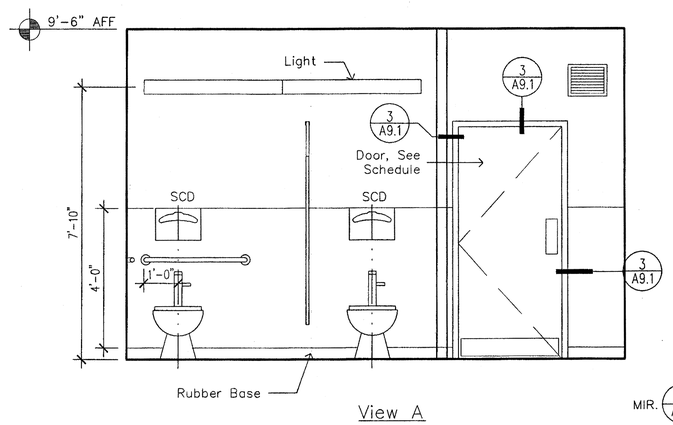
View C



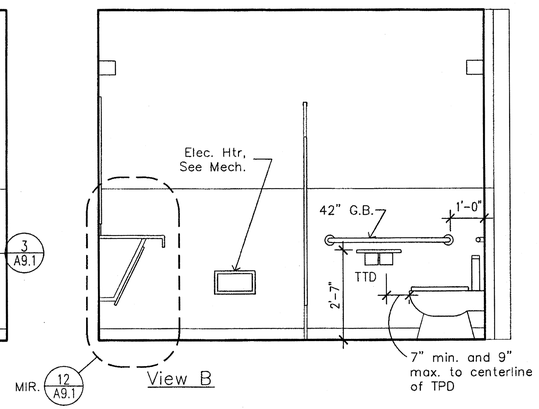
View D

1 Interior Elevations – Mens Restroom

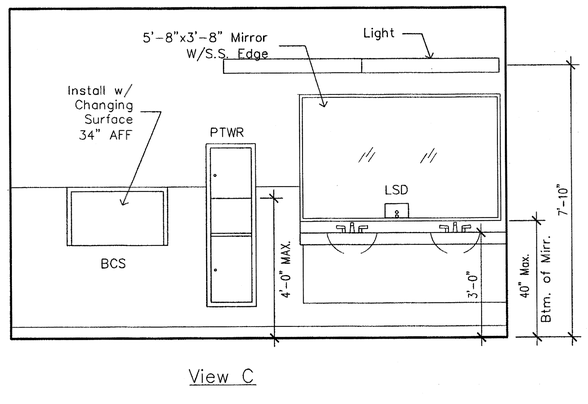
0 6" 1' 2'



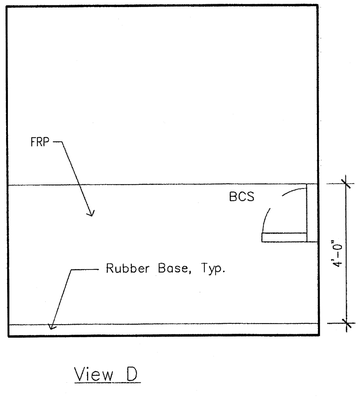
View A



View B



View C



View D

2 Interior Elevations – Womens Restroom

0 6" 1' 2'

NOTE:

1) See Sheet A4.1 for Toilet and Bath Accessories Abbreviations
2) See Sheet M1.0 for Fixture Schedule

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
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DESIGNED BY: TW

STATE OF ALASKA · REGISTERED PROFESSIONAL ARCHITECT · Timothy Whiteley · No. A-9429 · JUNE 8, 2009

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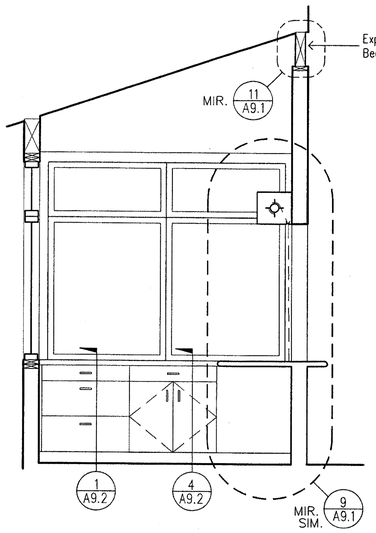
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Hoonah Ferry Terminal

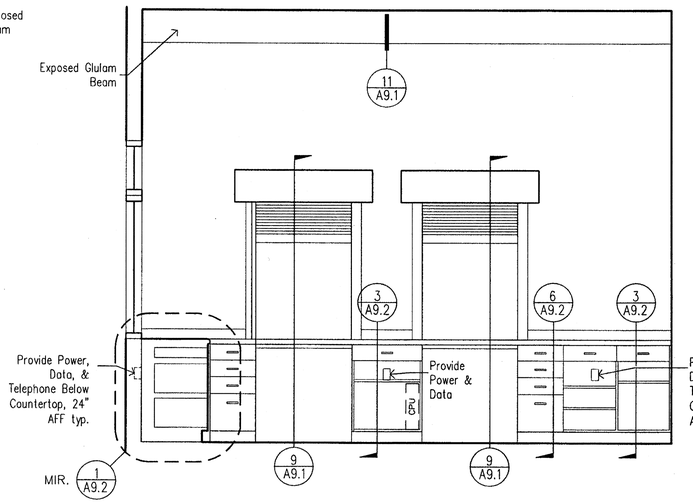
Project

Interior Elevations

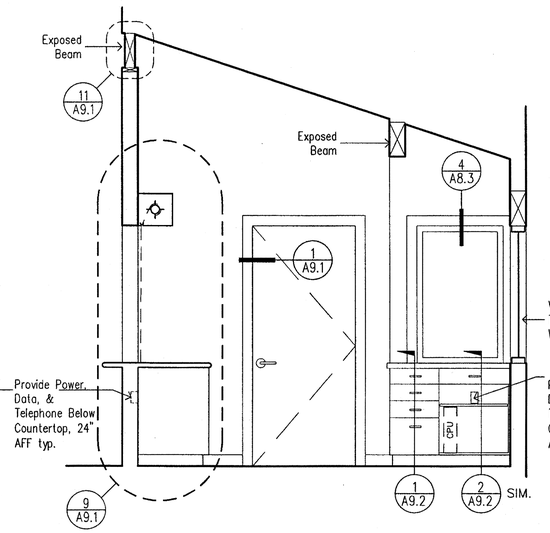
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67813	2009	A5.1	52



View A



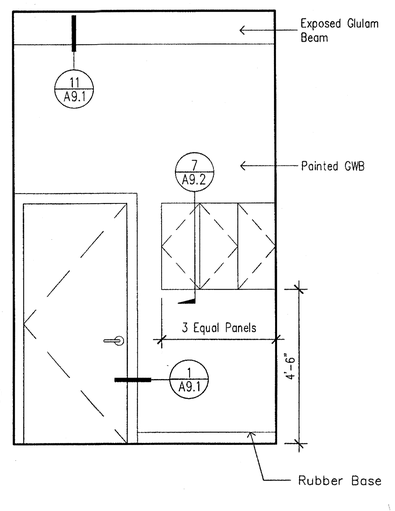
View B



View C

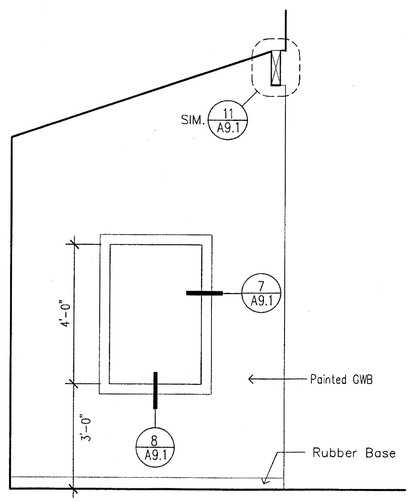
2 Interior Elevations – Ticketing

0 6" 1' 2'



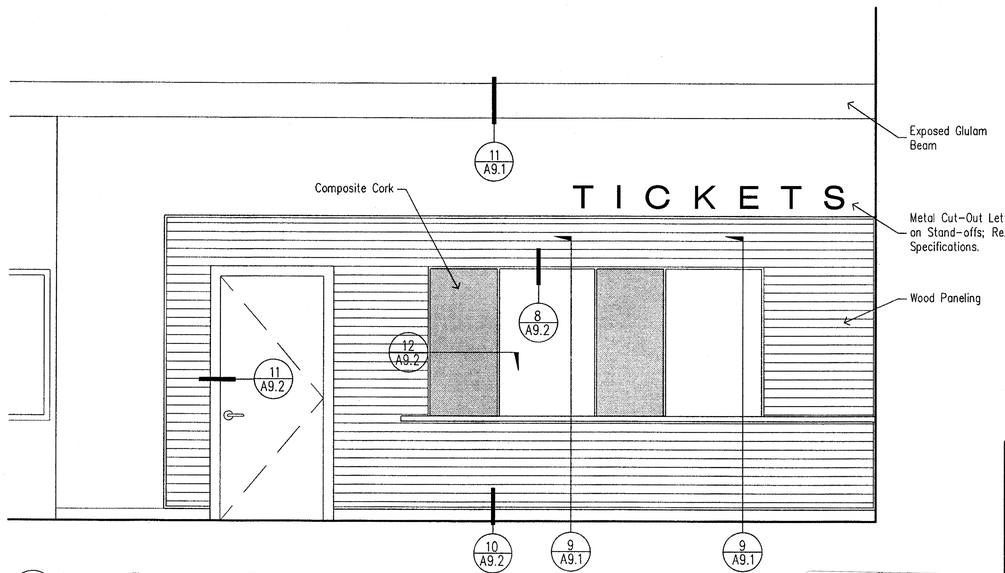
1 Interior Elevations – Office

0 6" 1' 2'



4 Interior Elevations – Entry

0 6" 1' 2'



3 Interior Elevations – Ticket Counter

0 6" 1' 2'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Date 2/14/11

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STATE OF ALASKA – Timothy Whiteley – No. A-9429 – Professional Engineer – JUNE 8, 2009

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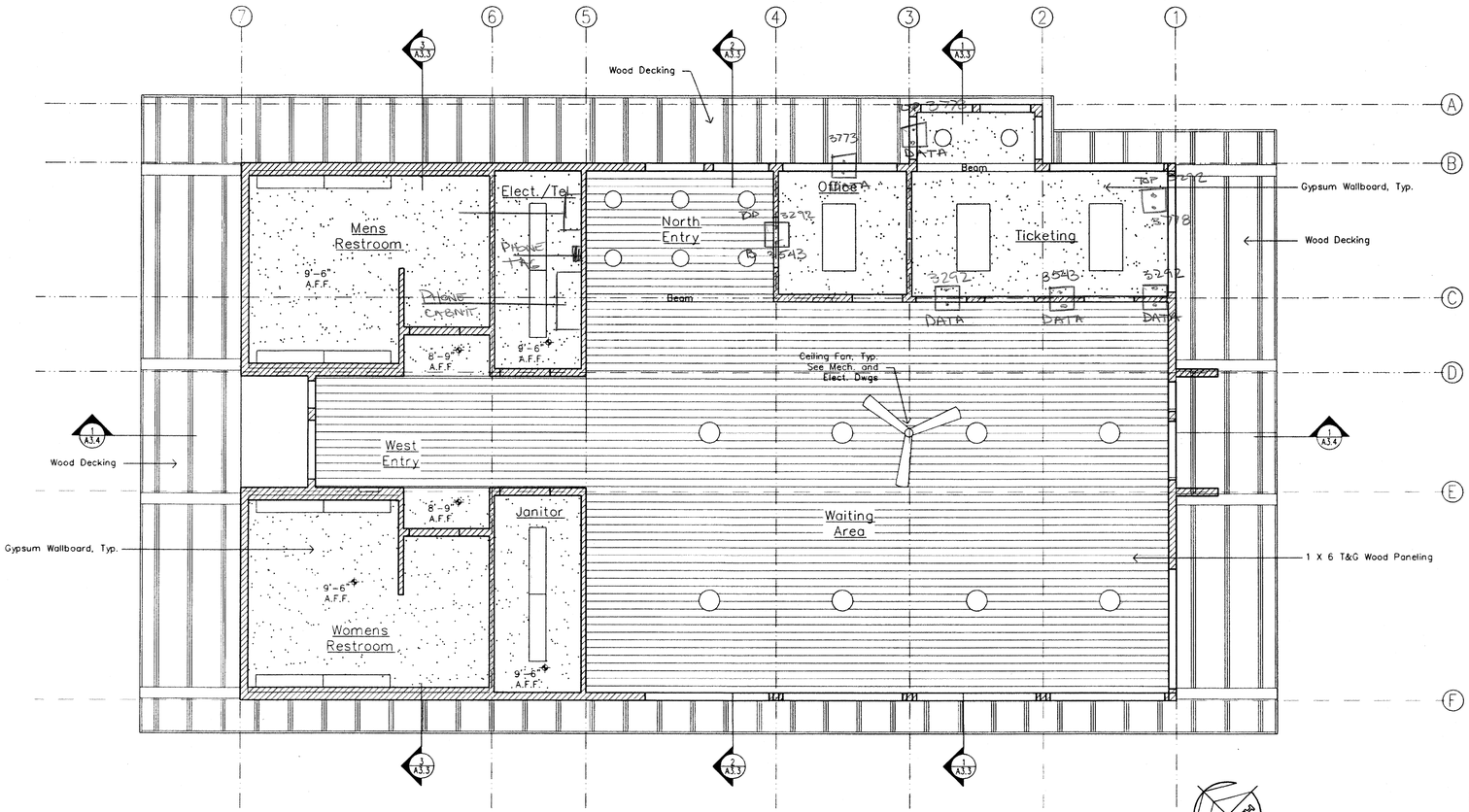
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Hoonah Ferry Terminal

Project

Interior Elevations

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67813	2009	A5.2	52



1 Reflected Ceiling Plan

0 2' 4'

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal

Project

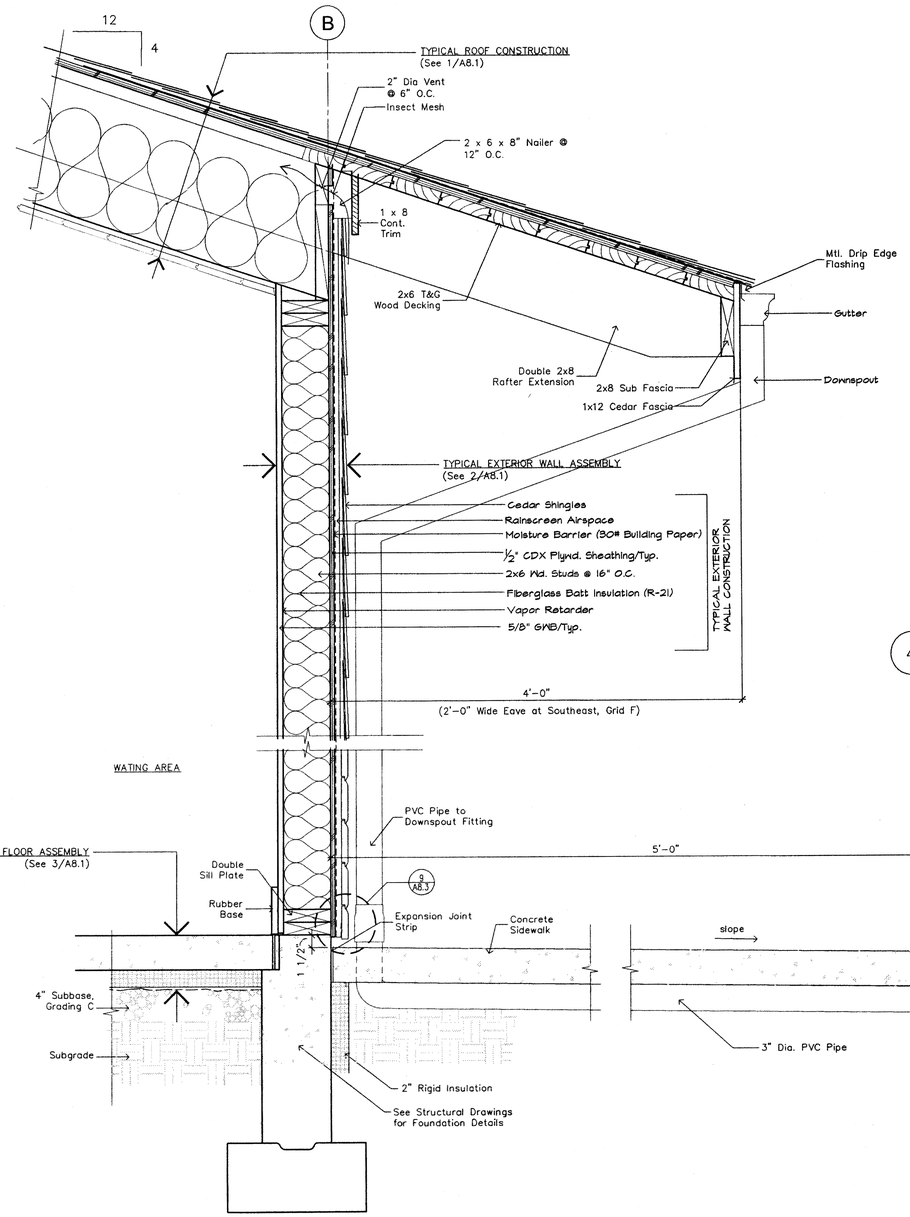
Reflected Ceiling Plan

STATE OF ALASKA — Timothy Whiteley — No. A-9429 — REGISTERED PROFESSIONAL ARCHITECT — JUNE 8, 2009

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/6/11

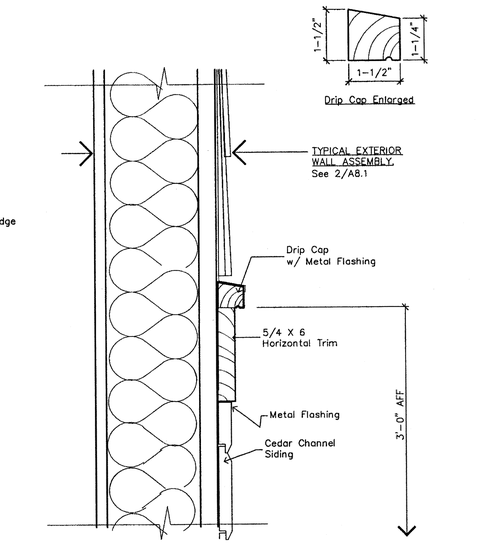
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67813	2009	A6.1	52



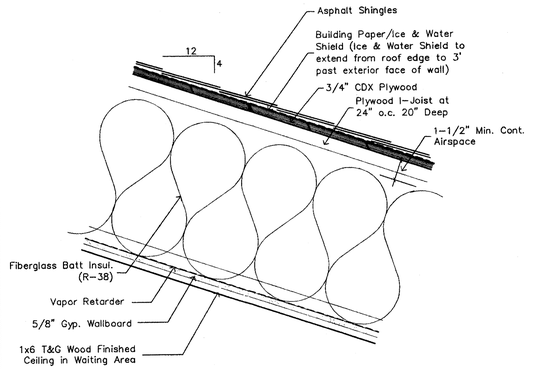
5 Typical Wall Section – Eave

0 1" 3" 6"



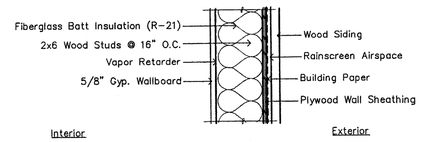
4 Typical Drip Cap Detail

0 1" 3"



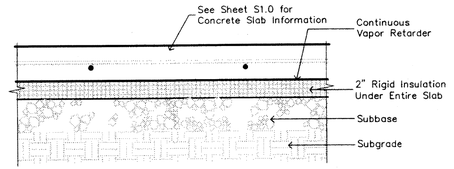
1 Typical Roof/Ceiling Assembly

0 1" 3" 6"



2 Typical Exterior Wall Assembly

0 1" 3" 6"



3 Typical Floor Assembly

0 1" 3" 6"

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DESIGNED BY: TW

STATE OF ALASKA 49TH — Timothy Whiteley No. A-9429 — REGISTERED PROFESSIONAL ENGINEER
JUNE 8, 2009

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PATH:
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Hoonah Ferry Terminal

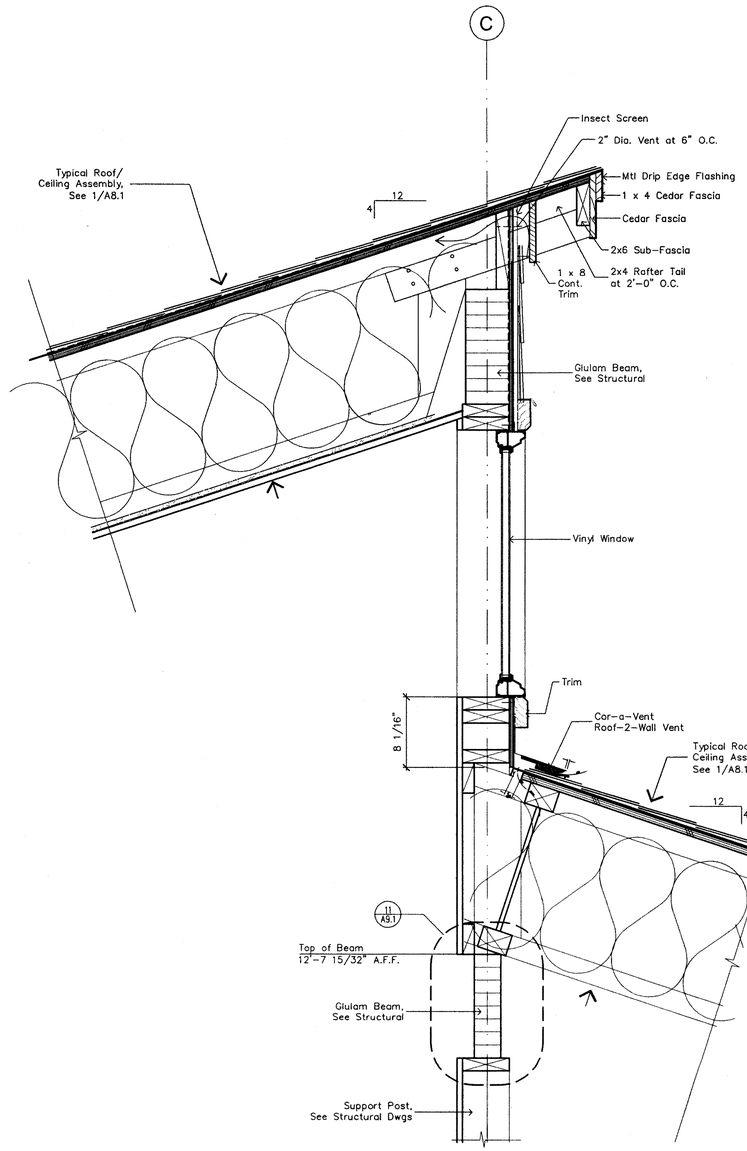
Project

Exterior Details

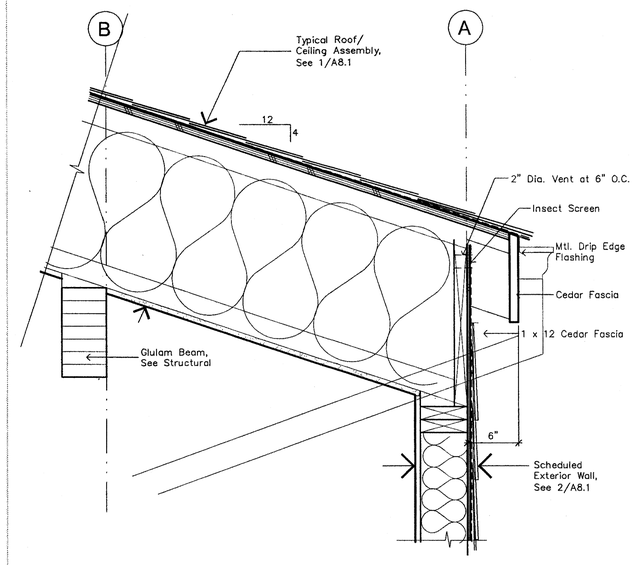
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
2	10/07/09	REVISION	67813	2009	A8.1	52

SHEET NOTES:

1) Typical Roof Assembly refer to 1/A8.1
2) Typical Wall Assembly refer to 2/A8.1
3) Typical Floor Assembly refer to 3/A8.1

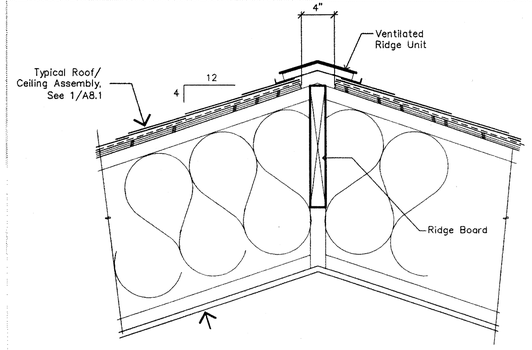


3 Section at Clerestory



1 Section at Ticketing Bay

0 1" 3" 6"



2 Ventilated Ridge

0 1" 3" 6"

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DESIGNED BY: TW
CHECKED BY: TW
DRAWN BY: SM, DT, TW
PATH:
PLOT:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

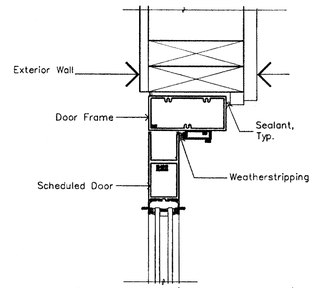
STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — No. A-9429 — JUNE 8, 2009

Hoonah Ferry Terminal

Project

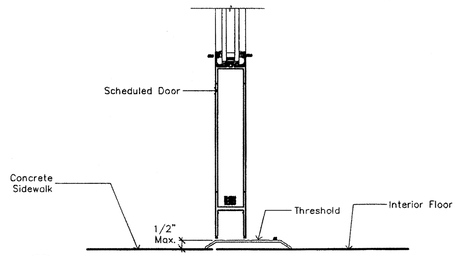
Exterior Details

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
2	10/07/09	REVISION	67813	2009	A8.2	52



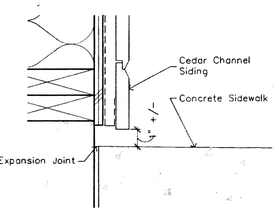
8A Exterior Door Head (Jamb Similar)

0 1" 3"



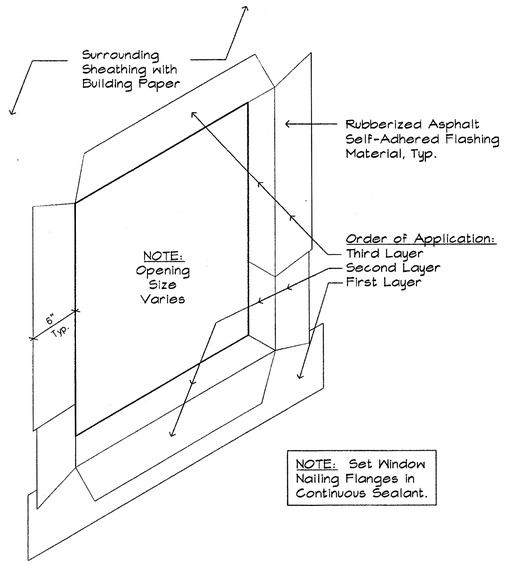
8B Exterior Door Bottom

0 1" 3"



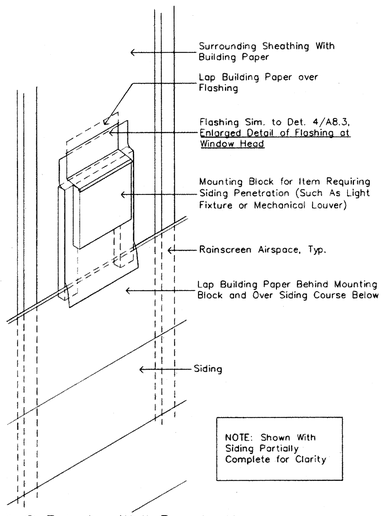
9 Detail at Base of Exterior Siding

0 1" 3"



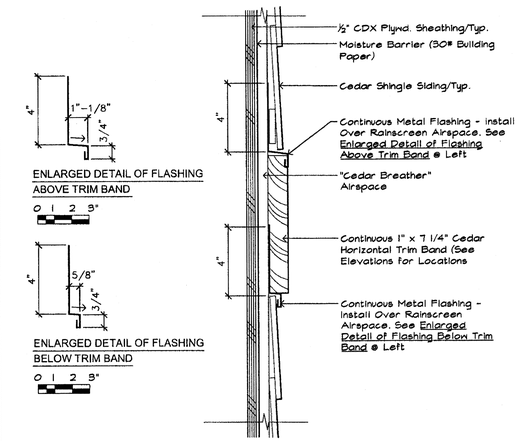
5 Window / Door Rough Opening Wrap

NOT TO SCALE



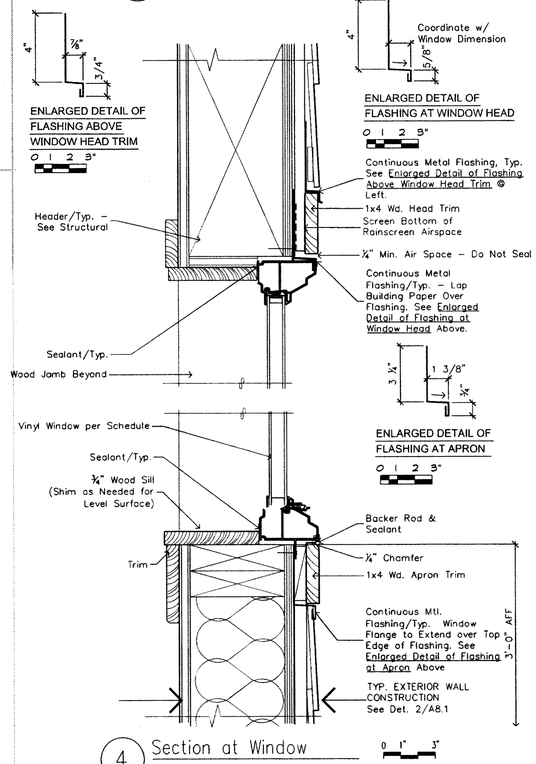
6 Detail @ Exterior Wall Penetrations

NOT TO SCALE



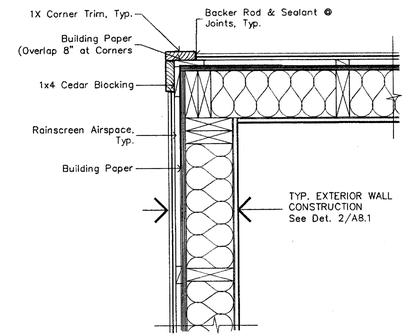
3 Detail at Horiz. Trim Band

0 1" 3"



4 Section at Window

0 1" 3"



1 Corner Trim Detail

0 1" 3" 6"

2 Not Used

0 1" 3" 6"

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

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WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DESIGNED BY: TW

CHECKED BY:

DRAWN BY:

PATH:

PLOT:

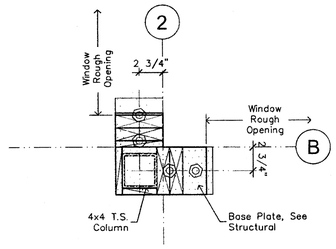
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal

Project

Exterior Details

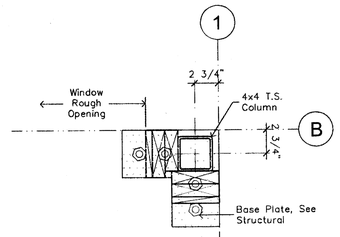
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67813	2009	A8.3	52



4 Framing at Corner of Ticketing Bay (B-2)

Intersection B-3 Mirrored

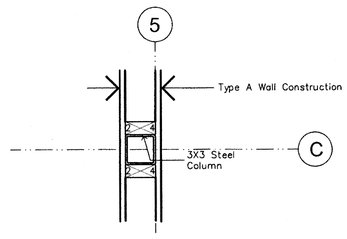
0 1" 3" 6"



1 Framing at Corner (B-1)

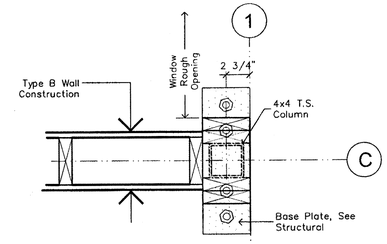
Detail at Intersection F-1 Mirrored

0 1" 3" 6"



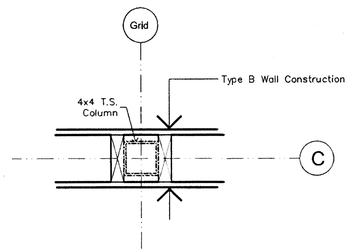
5 Framing at Interior Column (C-5)

0 1" 3" 6"



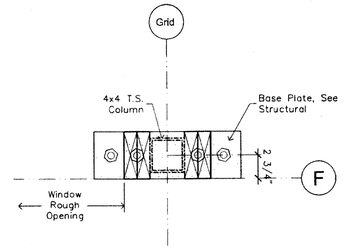
2 Framing at Column (C-1)

0 1" 3" 6"



6 Framing at Interior Column (C-2, C-3)

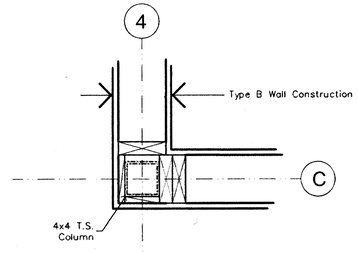
0 1" 3" 6"



3 Framing at Columns at Window Jambs

Typical of F-2, F-3, F-4 (Mirrored at B-4)

0 1" 3" 6"



7 Framing at Interior Column (C-4)

0 1" 3" 6"

WELSH WHITELEY ARCHITECTS, LLC
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PE _____ Date 2/16/11

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: TW

STATE OF ALASKA
Timothy Whiteley
No. A-9429
REGISTERED PROFESSIONAL ENGINEER
JUNE 8, 2009

CHECKED BY:

DRAWN BY:

PATH:

PLOT:

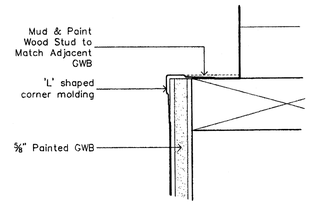
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal

Project

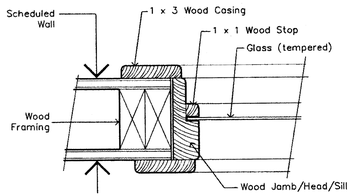
Details

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67813	2009	A8.4	52



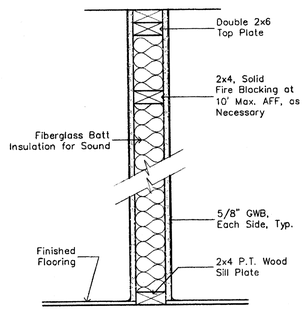
10 Corner Detail

0 1" 2"



7 Inter. Window Jamb/Head

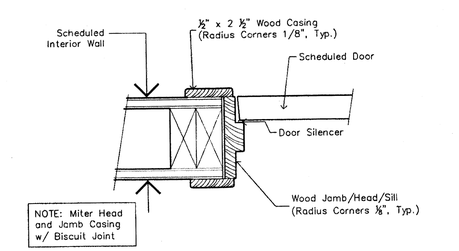
0 1" 3"



Wall Type 'B' is Identical to 'A', except that 2x6 Wood Studs are Used

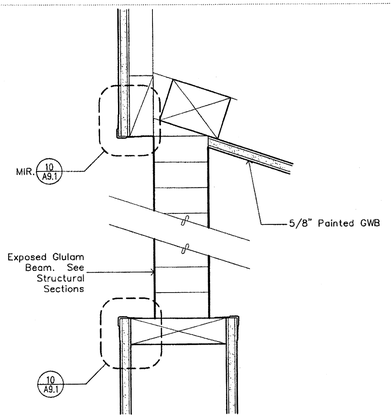
4 Interior Wall Types – A & B

0 1" 3" 6"



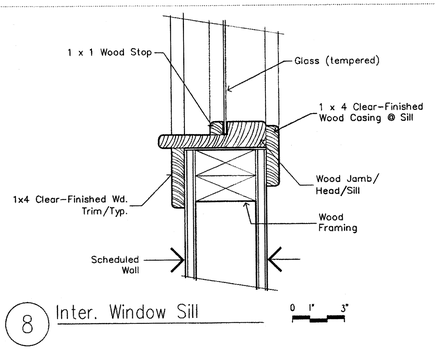
1 Wood Door Jamb (Head Similar)

0 1" 3"



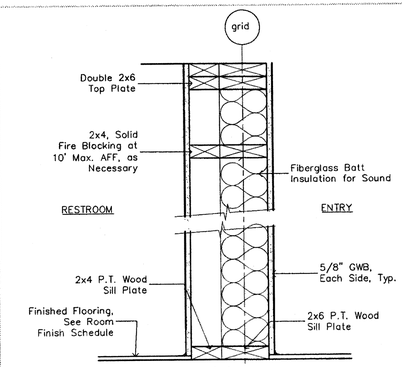
11 Exposed Beam

0 1" 3"



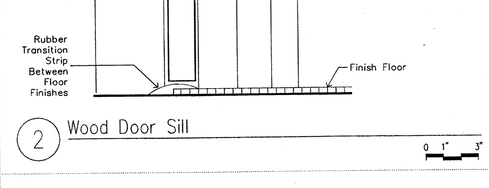
8 Inter. Window Sill

0 1" 3"



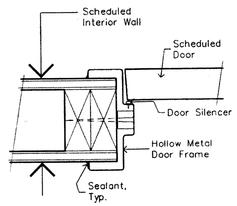
5 Interior Wall – Type C

0 1" 3" 6"



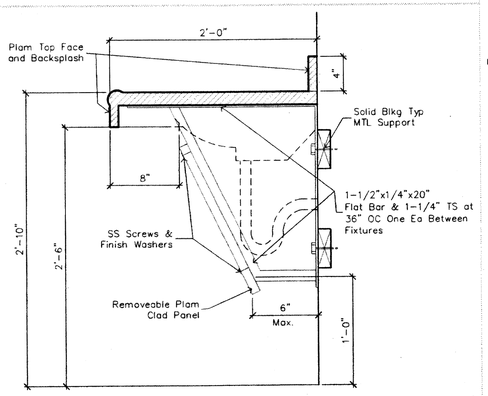
2 Wood Door Sill

0 1" 3"



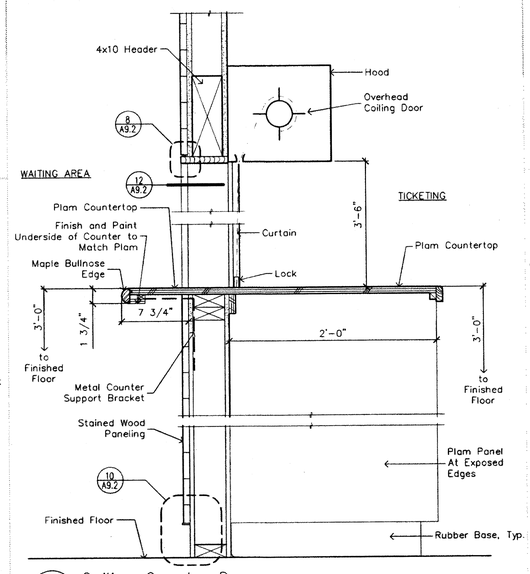
3 Hollow Metal Door Jamb (Head Similar)

0 1" 3"



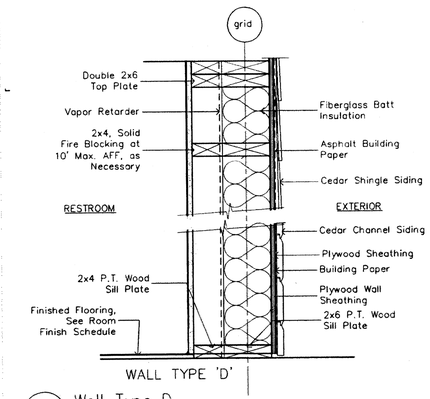
12 Section at Restroom Counter

0 1" 3" 6"



9 Coiling Counter Door

0 1" 3" 6"



6 Wall Type D

0 1" 3" 6"

WELSH WHITELEY ARCHITECTS, LLC
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Ketchikan, Alaska 99901
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PE _____ Date 7/6/11

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DESIGNED BY: TW

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PATH:

PLOT:

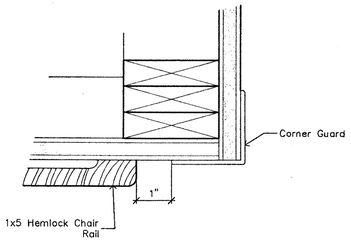
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal

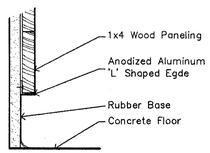
Project

Interior Details

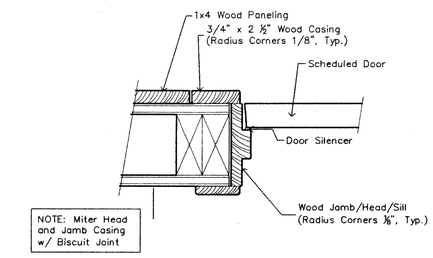
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67813	2009	A9.1	52



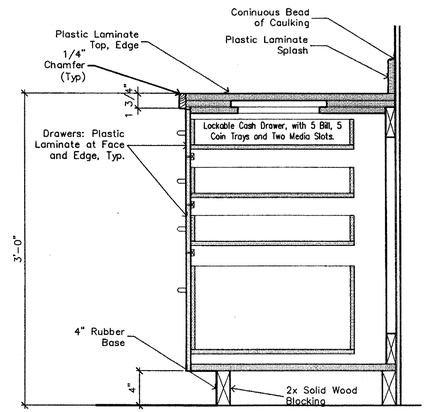
9 Chair Rail — 0 1" 2"



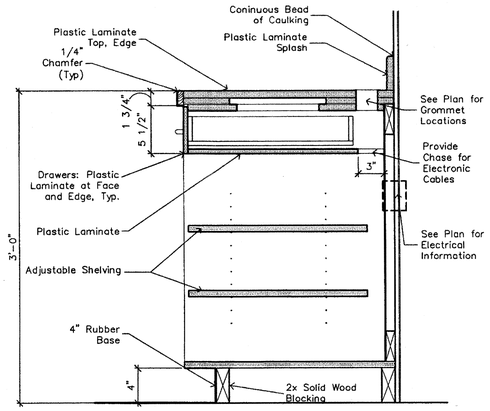
10 Base Detail – Ticketing Counter — 0 1" 3"



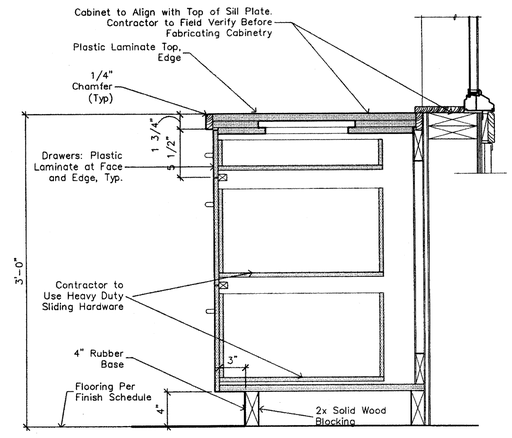
11 Wood Door Jamb (Head Similar) — 0 1" 3"



6 Base Cabinet — 0 1" 3" 6"



3 Base Cabinet — 0 1" 3" 6"

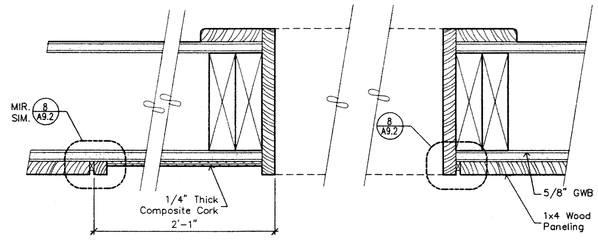


1 Base Cabinet — 0 1" 3" 6"

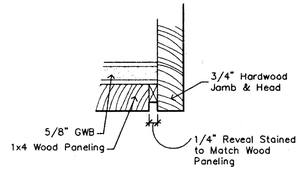
7 Upper Cabinet — 0 1" 3" 6"

4 Base Cabinet — 0 1" 3" 6"

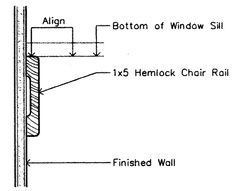
2 Base Cabinet — 0 1" 3" 6"



12 Ticketing Counter Wall — 0 1" 3"



8 Corner Detail — 0 1" 3"



5 Chair Rail — 0 1" 3"

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 11/6/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: TW
CHECKED BY: TW
DRAWN BY: SM, DT, TW
PATH:
PLOT:

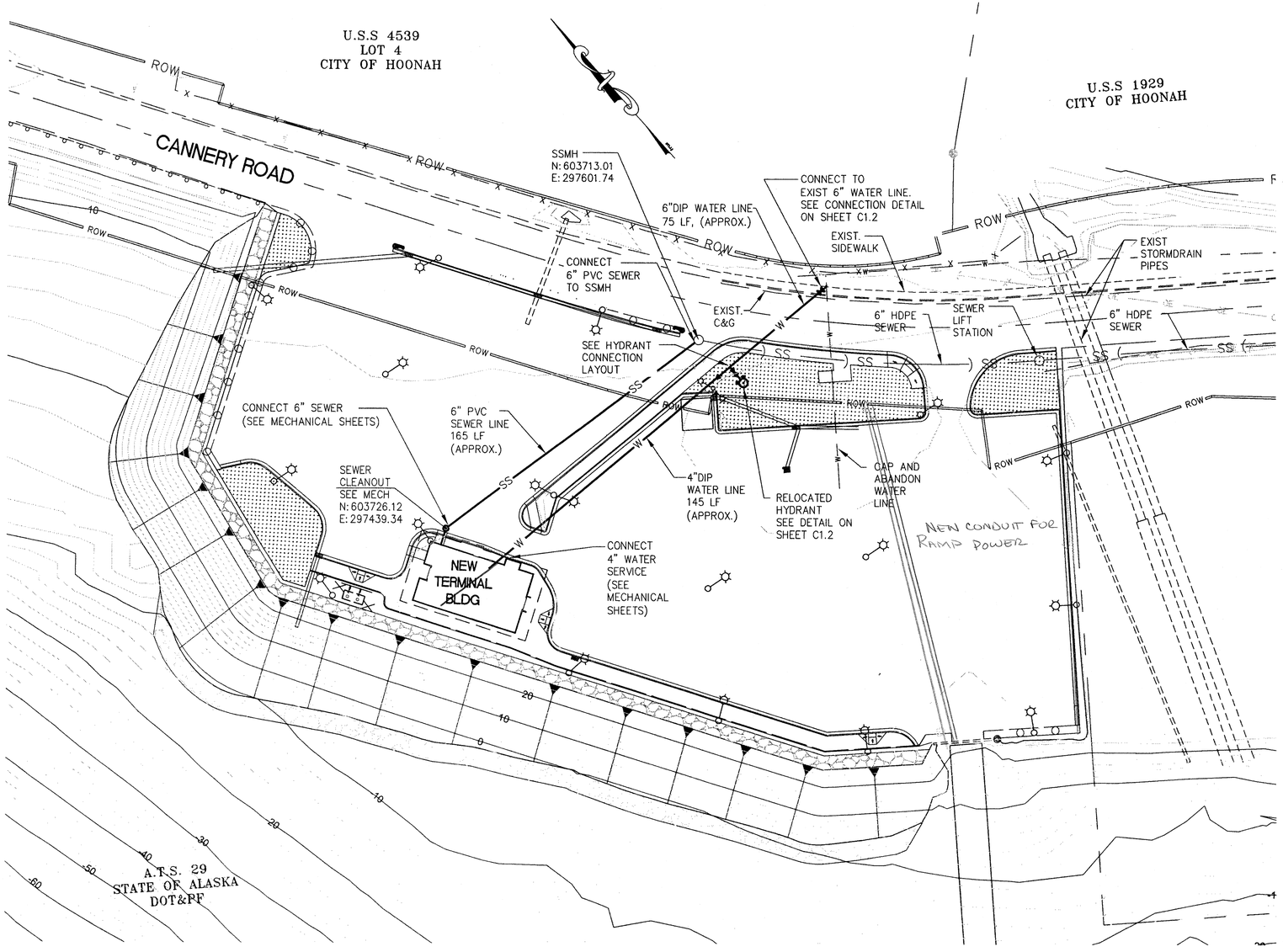
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal

Project

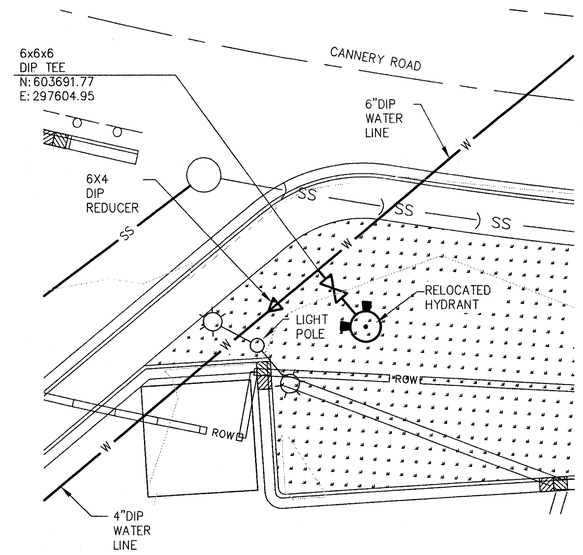
Interior Details

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
2	10/07/09	REVISION	67813	2009	A9.2	52



1 SITE PLAN

SCALE IN FEET
0 30 60 FT.



2 HYDRANT CONNECTION LAYOUT

SCALE IN FEET
0 10 20 FT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PE _____ Date 2/16/11

P N D ENGINEERS, INC.
9360 Glacier Highway, Ste 100 Juneau, Alaska 99801
Phone: 907.586.2093 Fax: 907.586.2099
PND NO. 092010.01

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DESIGNED BY: NAM
CHECKED BY: CMG
DRAWN BY: NAM/PJD
PATH:
PLOT:

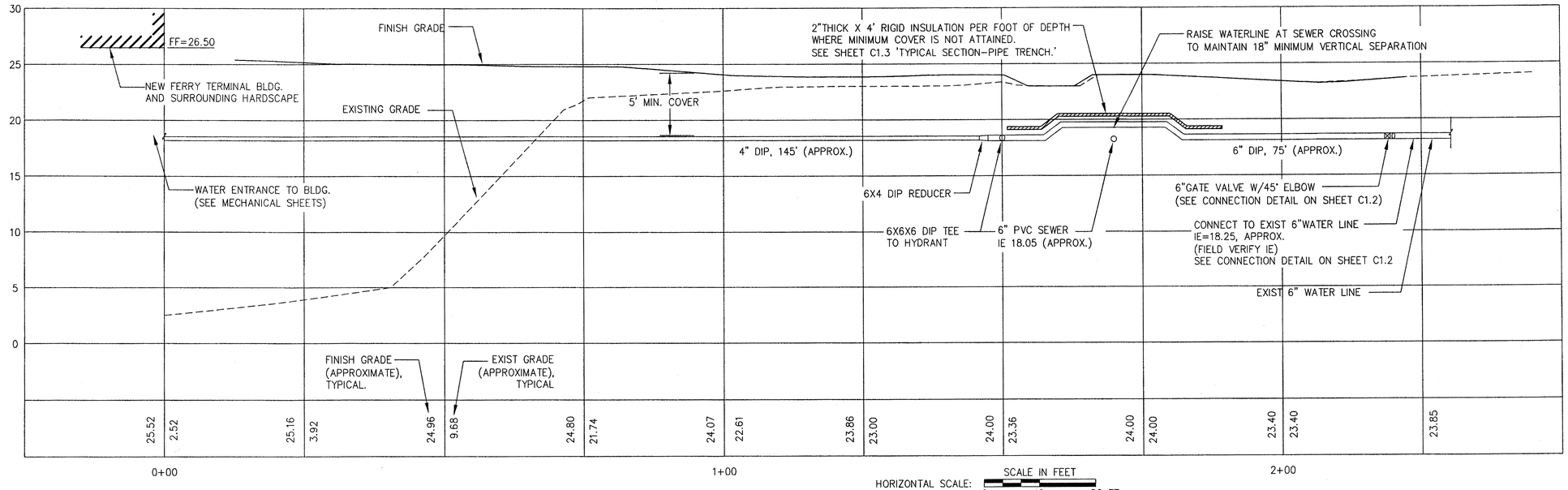
STATE OF ALASKA
Christopher Gianotti
10/7/09
CE-7558
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal Project

CIVIL SITE PLAN WATER AND SANITARY SEWER SERVICES

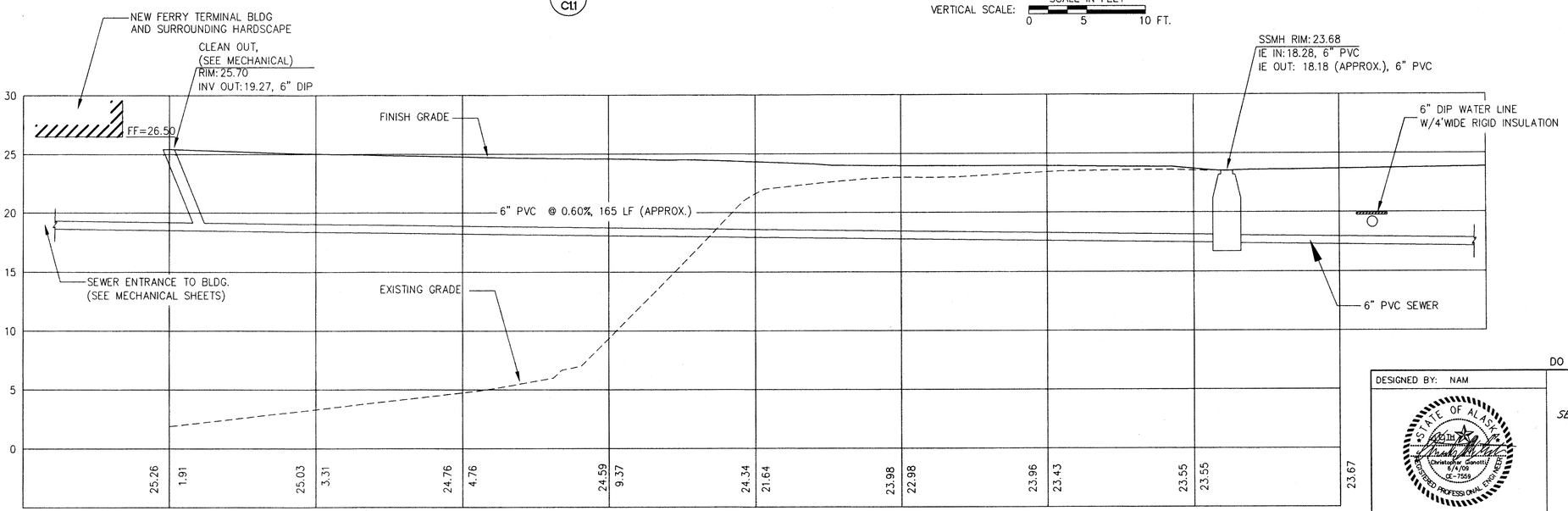
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
2	10/07/09		67813	2009	C1.0	52



A C1.1 **WATERLINE PROFILE**

HORIZONTAL SCALE: SCALE IN FEET 0 10 20 FT.

VERTICAL SCALE: SCALE IN FEET 0 5 10 FT.



B C1.1 **SANITARY SEWER PROFILE**

HORIZONTAL SCALE: SCALE IN FEET 0 10 20 FT.

VERTICAL SCALE: SCALE IN FEET 0 5 10 FT.

P N D ENGINEERS, INC.
9360 Glacier Highway, Ste 100 Juneau, Alaska 99801
Phone: 907.586.2093 Fax: 907.586.2099
PND NO. 092010.01

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
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* SEE PLANSET A FOR DETAILED CHANGES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Date 2/16/11

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: NAM
CHECKED BY: CMG
DRAWN BY: NAM/PJD
PATH:
PLOT:

STATE OF ALASKA
Christopher Ganotti
6/4/09
CE-7559
REGISTERED PROFESSIONAL ENGINEER

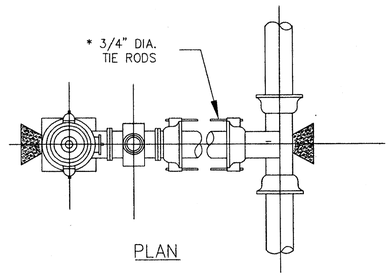
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
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Hoonah Ferry Terminal Project

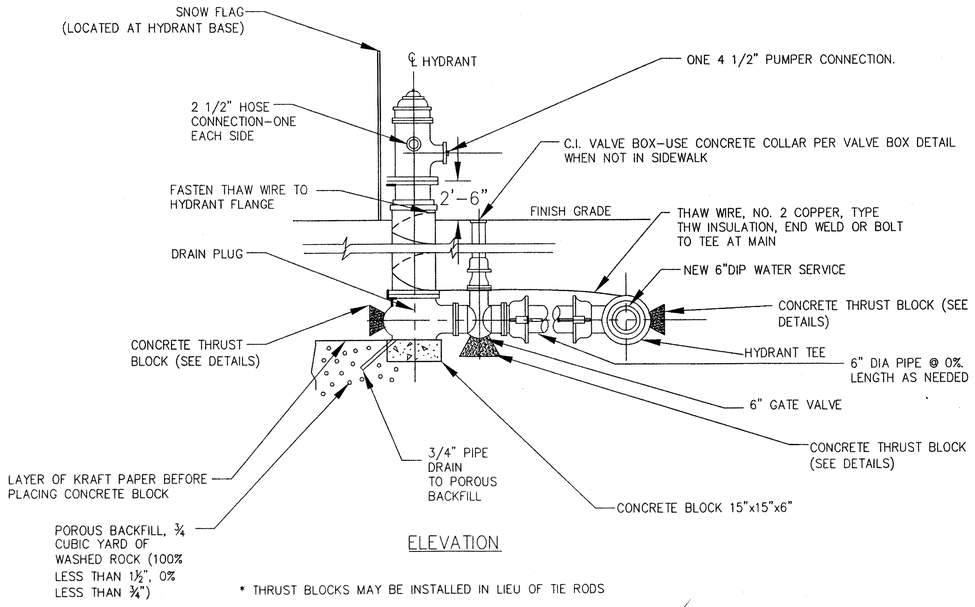
CIVIL
WATER SERVICE PROFILE
SANITARY SEWER PROFILE

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1	7/22/09		67813	2009	C1.1	52

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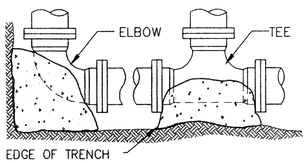
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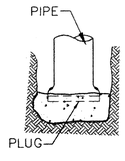


ELEVATION

* THRUST BLOCKS MAY BE INSTALLED IN LIEU OF TIE RODS

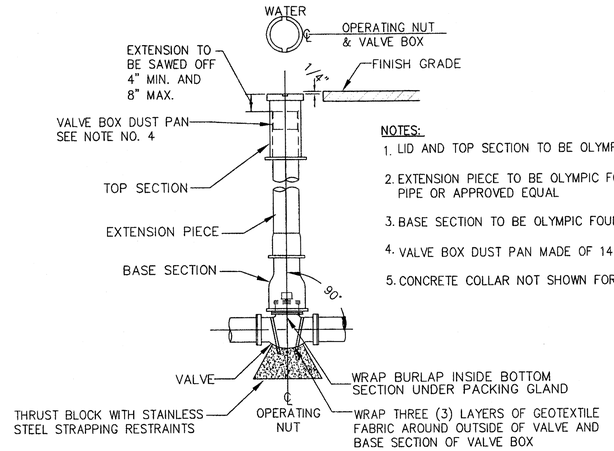
1 RELOCATED HYDRANT ASSEMBLY





PIPE SIZE	MIN. BASE AREA SQ. FT.		
	90° BEND	45° BEND	PLUG
6"	2.0	1	2.0
8"	2.5	1.5	2.5
10"	4.5	2.5	4.5
12"	6	3.5	6
14"	8	4.5	8
16"	10.5	6	10.5
24"	24	13	24

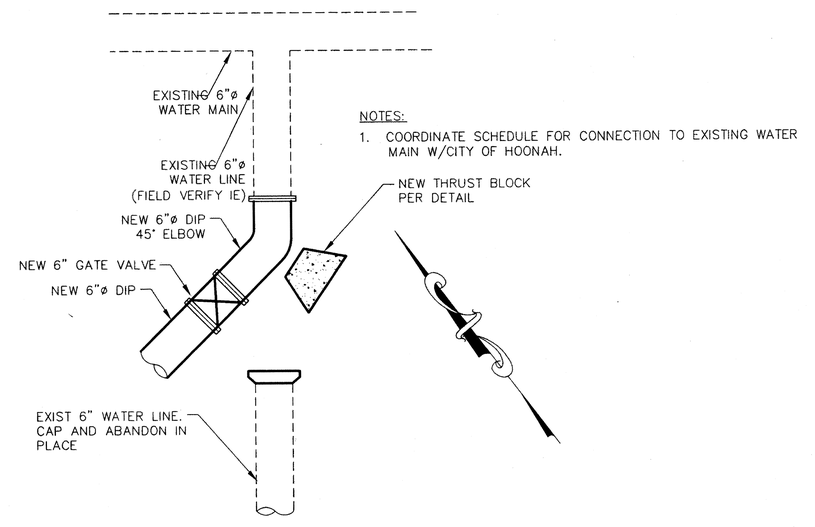
2 TYPICAL DETAIL - THRUST BLOCK



NOTES:

1. LID AND TOP SECTION TO BE OLYMPIC FOUNDRY TYPE C OR EQUAL.
2. EXTENSION PIECE TO BE OLYMPIC FOUNDRY TYPE A 10 FOOT SECTION OR 5" DIA. SINGLE HUB SOIL PIPE OR APPROVED EQUAL
3. BASE SECTION TO BE OLYMPIC FOUNDRY TYPE B OR EQUAL.
4. VALVE BOX DUST PAN MADE OF 14 GAUGE HOT ROLLED ELECTRIC RESISTANCE WELDED (HREW) TUBE.
5. CONCRETE COLLAR NOT SHOWN FOR CLARITY. SEE TYPICAL DETAIL.

3 TYPICAL DETAIL - VALVE BOX



NOTES:

1. COORDINATE SCHEDULE FOR CONNECTION TO EXISTING WATER MAIN W/CITY OF HOONAH.

4 WATER SERVICE CONNECTION

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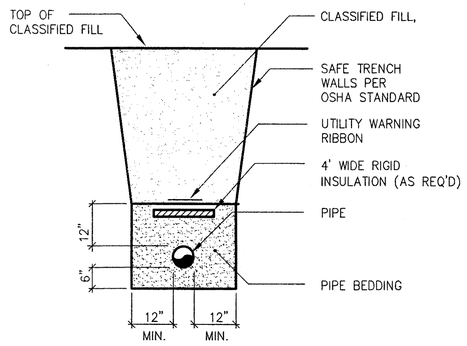
STATE OF ALASKA
REGISTERED PROFESSIONAL ENGINEER
Christopher Gianotti
10/7/09
CE-7559

STATE OF ALASKA
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Hoonah Ferry Terminal Project

CIVIL
SEWER AND WATER SYSTEM
TYPICAL DETAILS

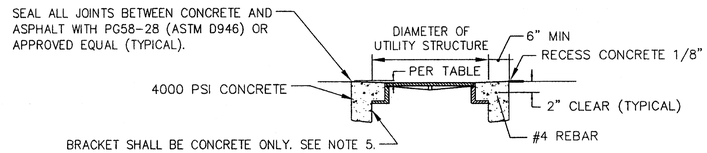
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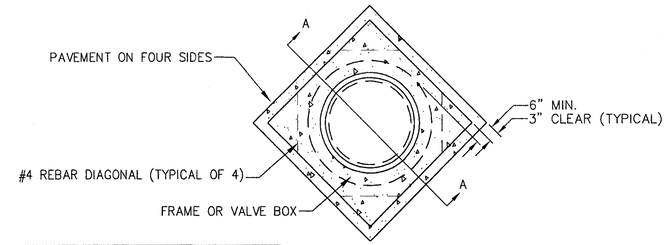
1 TYPICAL SECTION-PIPE TRENCH

NOTES:

1. MAINTAIN MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN SEWER AND WATER SERVICE LINES.
2. UTILITY WARNING RIBBON SHALL HAVE METALLIC BACKING CAPABLE OF BEING TRACED WITH LOCATORS AND SHALL BE INSTALLED 12 INCHES ABOVE THE TOP OF ALL WATER AND SEWER MAINS AND SERVICES.



SECTION A-A



STRUCTURE	MIN. DROP	MAX. DROP
VALVE BOX	1/4"	3/8"
CLEANOUT	1/4"	3/8"

PLAN VIEW

NOTES:

1. BRING ALL STRUCTURES TO FINISH GRADE PRIOR TO PAVING. STRUCTURES NOT MEETING TOLERANCES IN ABOVE TABLE SHALL BE ADJUSTED TO GRADE AND CONCRETE COLLAR INSTALLED.
2. INSTALL CONCRETE COLLAR AROUND ALL UTILITY STRUCTURES WHEN REQUIRED BY THE ENGINEER.
3. AFTER ADJUSTING STRUCTURE TO FINISH GRADE, BACKFILL WITH CONCRETE ONLY.
4. ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
5. UNLESS IMMEDIATELY BACKFILLED WITH CONCRETE, ALL SAWCUTS AND EXCAVATIONS SHALL BE PROTECTED WITH STEEL PLATES OR OTHER SUITABLE MATERIALS.
6. THIS DETAIL TO BE USED WHEN NOT POSSIBLE TO PAVE IN PLACE OR GRADES NEED TO BE ADJUSTED AFTER PAVING. TABLE ABOVE WILL GOVERN GRADE FOR PAVING IN PLACE.

2 CONCRETE COLLAR

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CHECKED BY: CMG

DRAWN BY: NAM/PJD

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SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal Project

CIVIL
SEWER AND WATER SYSTEM
TYPICAL DETAILS

PATH:

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STRUCTURAL GENERAL NOTES

CRITERIA:

CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE (IBC), 2006 EDITION, AS AMENDED BY THE STATE OF ALASKA.

CODE:

GROUND SNOW LOAD:	200 PSF
ROOF SNOW LOAD:	125 PSF
LIVE LOAD:	100 PSF
WIND:	120 MPH, EXPOSURE D, I_W=1.0
SEISMIC:	S_1=0.41g, S_S=1.00g, S_{D1}=0.43g, S_{DS}=0.73g OCCUPANCY CATEGORY II, I_E=1.0, SITE CLASS D, SEISMIC DESIGN CATEGORY D R=6.5 (TIMBER SHEAR WALLS) C_S=0.11

FOUNDATION:

FOUNDATION HAS BEEN DESIGNED FOR AN ASSUMED ALLOWABLE SOIL PRESSURE OF 2500 PSF BASED ON FOUNDATION REPORT BY ADOTPF SE REGION.

FOUNDATION SHALL BEAR ON A COMPACTED BASE COURSE OVER COMPACTED BACKFILL. PLACE AND COMPACT FOUNDATION BACKFILL ACCORDING TO REQUIREMENTS OF SECTION 205 OF VOLUME 1 OF THE SPECIFICATIONS AND AS SHOWN ON THE PLANS.

BASE COURSE SHALL BE PLACED AND COMPACTED ACCORDING TO REQUIREMENTS OF SECTION 205 OF VOLUME 1 OF THE SPECIFICATIONS AND AS SHOWN ON THE PLANS. BASE COURSE SHALL MEET AGGREGATE BASE COURSE, GRADING D-1 REQUIREMENTS ACCORDING TO ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2004 EDITION.

CONCRETE:

CONCRETE SHALL MEET CLASS A REQUIREMENTS ACCORDING TO SECTION 501 OF THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2004 EDITION. FOR CONSTRUCTION REQUIREMENTS AND REQUIRED SUBMITTALS SEE SPECIFICATIONS REFERENCED ABOVE.

CONCRETE REINFORCING SHALL CONFORM TO ASTM A615 GRADE 60. FABRICATE AND PLACE STEEL REINFORCEMENT IN ACCORDANCE WITH CRSI'S "MANUAL OF STANDARD PRACTICE". REINFORCING SHALL BE SUPPORTED ON WELL-CURED BLOCKS OR APPROVED METAL ACCESSORIES. WELDING OF REINFORCING IS PROHIBITED. SUBMIT FABRICATION SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING FABRICATION.

PROVIDE MINIMUM COVER AT REINFORCING BARS AS FOLLOWS: CAST AGAINST EARTH – 3", EXPOSED TO EARTH OR WEATHER – 2", SLABS ON GRADE – 1.5".

AT WALL CORNERS AND INTERSECTING WALLS PROVIDE EITHER CORNER BARS, WITH THE SAME SIZE AND SPACING AS THE HORIZONTAL WALL STEEL, WITH A 50 DIAMETER LAP IN THE OUTSIDE FACE OF THE WALL, OR EXTEND HORIZONTAL STEEL WITH 90 DEGREE HOOK AND 50 BAR DIAMETER LAP SPLICE.

STRUCTURAL STEEL:

ALL STEEL SHALL CONFORM TO THE FOLLOWING:

HOLLOW RECTANGULAR SECTIONS:	ASTM A500, GRADE B
PLATES:	ASTM A36
ANCHOR BOLTS:	ASTM A307, HEADED BOLTS, GALVANIZED
OTHER BOLTS:	ASTM A307, GALVANIZED

ALL STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE, LATEST EDITION. SUBMIT FABRICATION SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING FABRICATION.

ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE", AND BE PERFORMED BY WELDERS QUALIFIED IN ACCORDANCE WITH D1.1. SMAW SHALL UTILIZE E70XX ELECTRODES. SUBMIT WELDER QUALIFICATIONS AND WELDING PROCEDURES FOR REVIEW AND APPROVAL.

STRUCTURAL STEEL INSIDE THE BUILDING ENVELOPE SHALL BE SHOP PAINTED WITH THE FABRICATOR'S STANDARD LEAD AND CHROMATE FREE, NONASPHALTIC, RUST-INHIBITING PRIMER COMPLYING WITH MPI#79 AND COMPATIBLE WITH TOPCOAT.

STRUCTURAL STEEL OUTSIDE THE BUILDING ENVELOPE OR DESIGNATED AS (GALV) SHALL BE HOT-DIP GALVANIZED PER ASTM A153. CLEAN AREAS WHERE GALVANIZING IS DAMAGED OR MISSING AND REPAIR GALVANIZING TO COMPLY WITH ASTM A780.

GROUT:

NONMETALLIC, NONCORROSIVE, NONSTAINING, SHRINKAGE-RESISTANT GROUT MEETING ASTM C1107. GROUT SHALL BE FACTORY-PACKAGED AND MIXED WITH WATER TO CONSISTENCY SUITABLE FOR APPLICATION AND A 30-MINUTE WORKING TIME.

PLYWOOD:

ALL PLYWOOD SHALL BE STANDARD SHEATHING AS GRADED BY THE AMERICAN PLYWOOD ASSOCIATION CONFORM TO APA PS1 OR PS2 AND BEAR THAT QUALITY MARK. ALL PLYWOOD SHALL BE MADE WITH EXTERIOR TYPE GLUE. FLAT BLOCKING SHALL BE USED AT ALL PLYWOOD EDGES AS NOTED ON THE TYPICAL DETAILS OR SHOWN IN THE PLANS. ALL PLYWOOD IN CONTACT WITH OR WITHIN 6 INCHES OF SOIL OR DESIGNATED AS (P/T) SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA C-9, WITH ACZA TO A NET RETENTION OF 0.40 PCF.

LUMBER:

ALL WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO IBC, CHAPTER 23. ALL SAWN LUMBER SHALL BE VISUALLY GRADED IN ACCORDANCE WITH THE W.W.P.A. GRADING RULES. SAWN LUMBER AT THE FOLLOWING LOCATIONS SHALL MEET THE FOLLOWING GRADES, UNLESS NOTED OTHERWISE:

ALL TIMBER GREATER THAN 5.5 INCHES THICK	: DOUG FIR NO.1
ALL OTHER TIMBER 2 TO 4 INCHES THICK	: DOUG FIR NO.2

ANY SUBSTITUTION SHALL EITHER HAVE THE SAME PROPERTIES OR SIZED TO PROVIDE THE SAME PERFORMANCE. SUBMITTAL FOR SUBSTITUTION SHALL BE ACCOMPANIED WITH ICBO EVALUATION REPORT.

TREATED LUMBER:

ALL TIMBER IN CONTACT WITH CONCRETE, EXPOSED TO WEATHER, OR AS INDICATED AS (P/T) ON THE PLANS SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA C2. FIELD TREAT CUTS, HOLES OR DAMAGE TO TREATMENT WITH CUPRINOL IN ACCORDANCE WITH AWPA M4.

ENGINEERED WOOD PRODUCTS:

ENGINEERED WOOD SHALL BE TIMBERSTRAND MANUFACTURED BY TRUSSJOIST, OR APPROVED EQUAL. MATERIAL PROPERTIES SHALL BE AS FOLLOWS:

Type	E(psi)	Fb(psi)	Fv(psi)	$F_{c\parallel}$(psi)	$F_{c\perp}$(psi)
TIMBERSTRAND	1.6x10^6	2425	400	2150	825

GLUED LAMINATED TIMBERS:

GLUED LAMINATED TIMBER BEAMS SHALL COMPLY WITH AITC A190.1 COMBINATION 24F-V4 FOR SINGLE SPANS AND 24F-V8 FOR MULTISPANS AND BE ARCHITECHURAL APPEARANCE GRADE. MULTIPLE SPAN BEAMS SHALL BE MADE WITH NO CAMBER.

MANUFACTURED WOOD ROOF AND FLOOR TRUSSES AND JOISTS:

ALL WOOD TRUSSES AND MANUFACTURED JOISTS SHALL BE FACTORY MANUFACTURED WITH MACHINE STRESS RATED MATERIALS DESIGNED TO SUPPORT THE LOADING SHOWN ON THE DRAWINGS. BASIS FOR DESIGN OF I JOISTS SHOWN ON THE DRAWINGS ARE IN ACCORDANCE WITH PUBLISHED LOAD CHARTS AND MEMBER DESIGNATION OF THE "TRUSS JOIST CORP". TRUSSES BY OTHER MANUFACTURER'S MAY BE SUBSTITUTED UPON APPROVAL BY THE ENGINEER. WHERE DIMENSIONS AND DETAILS CHANGE DUE TO SUCH A SUBSTITUTION, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED MODIFICATION TO THE CONTRACT DRAWINGS. SUBMIT DETAILED SHOP DRAWINGS AND DESIGN CALCULATIONS OF ALL TRUSSES AND MANUFACTURED JOISTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

TIMBER DECKING:

TIMBER DECKING SHALL BE SELECT QUALITY DOUGLAS FIR TONGUE AND GROOVE IN CONFORMANCE WITH AITC 112. INSTALL IN CONTROLLED RANDOM LAYUP PER AITC 112. TOENAIL AT EACH SUPPORT WITH 40d GALVANIZED NAIL AND FACE NAIL AT EACH SUPPORT WITH 60d GALVANIZED NAIL. SIDE NAIL WITH 8" SPIKES AT 30" O.C. THROUGH PREDRILLED HOLES.

WOOD CONNECTIONS AND FRAMING:

ALL FRAMING NAILING SHALL CONFORM TO TABLE 2304.9.1 OF THE IBC UNLESS OTHERWISE SHOWN. STANDARD WASHERS SHALL BE UNDER ALL BOLT HEADS AND NUTS CONTACTING WOOD. PROVIDE STEEL STRAPS AT PIPES IN STUD WALLS AS REQUIRED BY IBC. BOLTS SHALL BE STANDARD ASTM A307, GALVANIZED. ALL NAILS SHALL BE COMMON WIRE OR BOX NAILS AND SHALL BE HOT-DIP GALVANIZED PER ASTM A153. ALL WOOD SCREWS AND LAG SCREWS SHALL BE HOT-DIP GALVANIZED PER ASTM A153.

ALL METAL HANGERS AND CONNECTORS SHOWN ON DRAWINGS ARE MANUFACTURED BY THE SIMPSON COMPANY. METAL HANGERS OR CONNECTORS BY OTHER MANUFACTURER'S MAY BE CONSIDERED WHERE LOAD CAPACITY AND DIMENSIONS ARE EQUAL OR BETTER. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. SUBMITTALS MUST INCLUDE AN ICBO EVALUATION REPORT. INSTALL CONNECTORS WITH FULL NAILING AND BOLTING UNLESS OTHERWISE NOTED.

INSTALL FIRE BLOCKING WHERE REQUIRED BY IBC 717.2.2.

ABBREVIATIONS

AITC	AMERICAN INSTITUTE FOR TIMBER CONSTRUCTION
APP	APPROXIMATELY
ARCH	ARCHITECT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVER'S ASSOCIATION
BLDG	BUILDING
BLKG	BLOCKING
BN	BOUNDARY NAILING
BTWN	BETWEEN
℄	CENTERLINE
CLR	CLEAR
CONC	CONCRETE
CP	COMPLETE PENETRATION
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CY	CUBIC YARD
DBL	DOUBLE
EA	EACH
EMBED	EMBEDMENT
EN	EDGE NAILING
EW	EACH WAY
FND	FOUNDATION
FTG	FOOTING
GALV	GALVANIZED
GLB	GLU LAM BEAM
MAX.	MAXIMUM
MIN.	MINIMUM
NO.	NUMBER
O.C.	ON CENTER
ℙ	PLATE
P/T	PRESSURE TREATED
PSI	POUNDS PER SQUARE INCH
REINF	REINFORCING
REQ'D	REQUIRED
SIM	SIMILAR
STD	STANDARD
STR	STRUCTURAL
TYP.	TYPICAL
W/C	WATER/CEMENT
W.P.	WORK POINT
U.N.O.	UNLESS NOTED OTHERWISE

LAG SCREWS SHALL BE INSTALLED IN ACCORDANCE WITH NDS PART 9.

A. LEAD HOLES FOR LAG SCREWS SHALL BE BORED AS FOLLOWS:
   1. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
   2. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 40% TO 70% OF THE SHANK DIAMETER IN WOOD WITH G ≤ 0.5 AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE IN EACH RANGE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETER.

B. THE THREADED PORTION OF THE LAG SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER.

C. LUBRICANT SHALL BE USED ON THE LAG SCREWS OR IN THE LEAD HOLES TO FACILITATE INSURTION AND PREVENT DAMAGE TO THE LAG SCREW.

SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL, DATE AND SIGN ALL SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS PRIOR TO SUBMITTAL TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DRAWINGS.

MISCELLANEOUS:

REFER TO ARCHITECTURAL PLANS FOR WALL OPENINGS, ARCHITECTURAL TREATMENT AND DIMENSIONS NOT SHOWN, CONSULT MECHANICAL PLANS FOR SIZE AND LOCATION OF ALL OPENINGS FOR DUCTS, PIPING, ETC. NOT SHOWN. COORDINATE WITH ARCHITECTURAL FOR DETAILED INFORMATION. PROVIDE AND INSTALL BLOCKING BETWEEN STUDS AT MECHANICAL EQUIPMENT AND SEISMIC RESTRAINT PER MECHANICAL.

SPECIAL INSPECTION:

THE OWNER SHALL RETAIN A SPECIAL INSPECTOR TO PERFORM THE FOLLOWING SPECIAL INSPECTIONS:

1) PERIODIC INSPECTION OF BASE COURSE AND COMPACTION OF BASE COURSE.
2) SAMPLING OF CONCRETE; TESTING OF CONCRETE; VERIFYING PLACEMENT, CONSOLIDATION, AND CURING MEETS SPECIFIED REQUIREMENTS.
3) SHEAR WALL NAILING, DIAPHRAGM NAILING, HOLDDOWN CONSTRUCTION INCLUDING BOLT EMBEDMENT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: BCN

STATE OF ALASKA – 10TH – Christopher Gianotti – 10/7/09 – CE-7559 – REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: CMG

DRAWN BY: PJD

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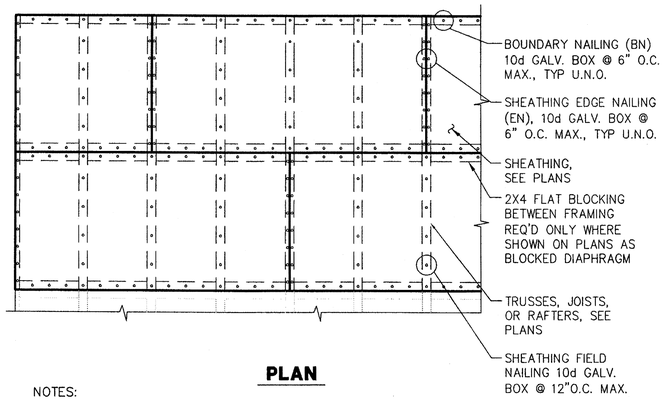
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Structural Notes

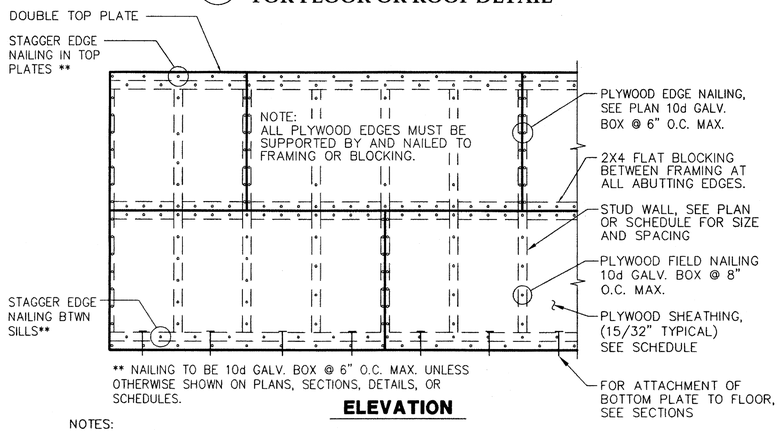
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PLAN

NOTES:
1. STAGGER SHEATHING JOINTS A MINIMUM OF TWO JOIST SPACES
2. NAILS AT ABUTTING SHEATHING EDGES MUST PENETRATE THE SAME PIECE OF FRAMING OR BLOCKING.

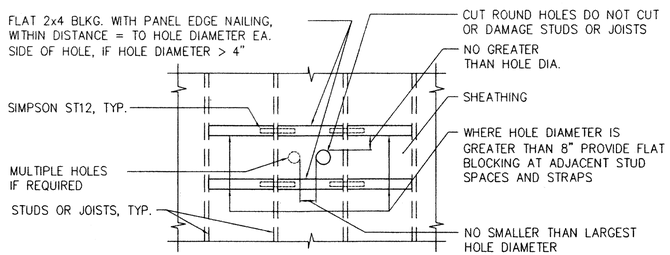
A TYPICAL PLYWOOD DIAPHRAGM FOR FLOOR OR ROOF DETAIL



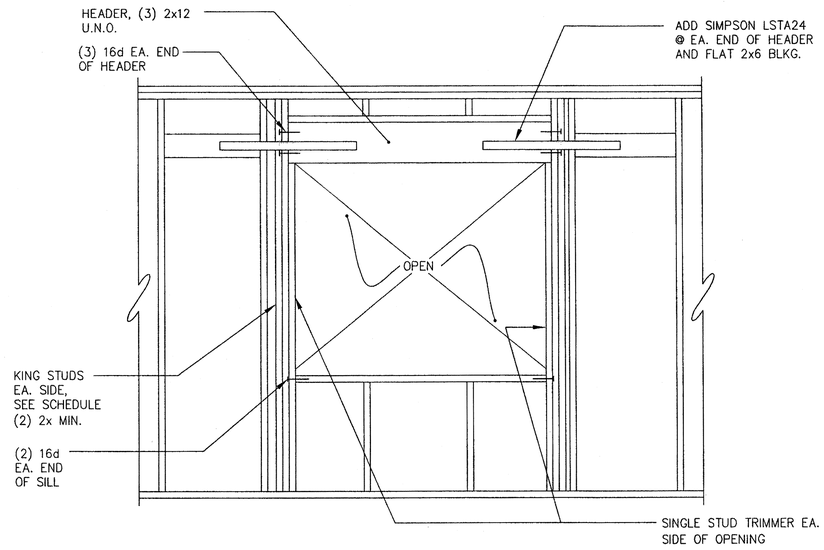
ELEVATION

NOTES:
1. PLYWOOD IS SHOWN HORIZONTAL, IT MAY ALSO BE POSITIONED VERTICAL.
2. STAGGER PLYWOOD JOINTS A MINIMUM OF TWO STUD SPACES.
3. NAILS AT ABUTTING PLYWOOD EDGES MUST PENETRATE THE SAME PIECE OF FRAMING OR BLOCKING.
4. SEE TYPICAL WALL ELEVATIONS AND PLANS FOR HOLD DOWNS, STRAPS AND ADDITIONAL BLOCKING.

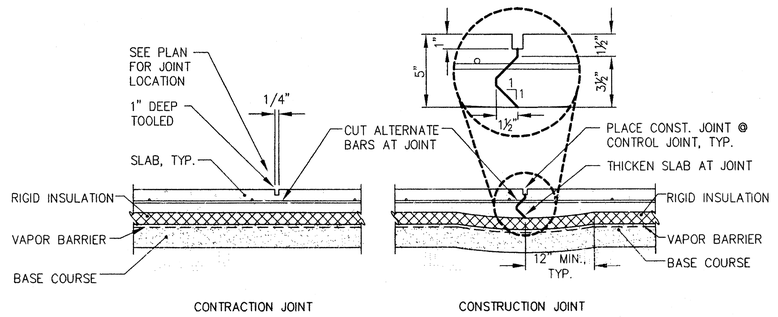
B TYPICAL SHEAR WALL DETAIL



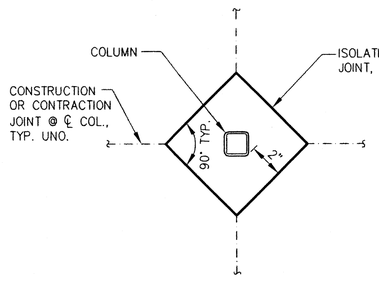
C TYPICAL SHEAR WALL AND DIAPHRAGM PENETRATION DETAIL



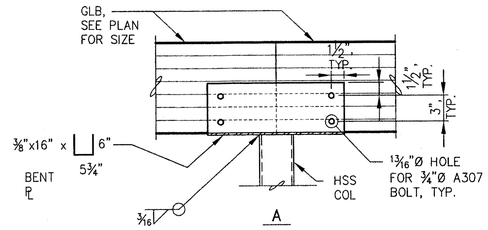
D TYPICAL HEADER DETAIL

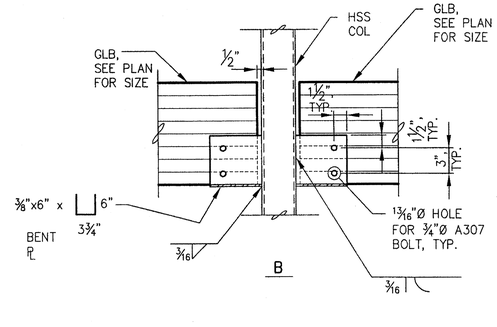


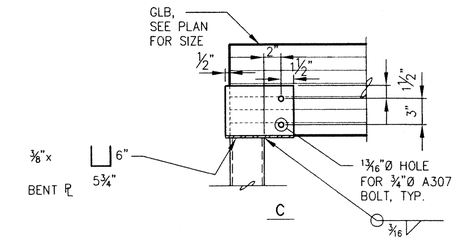
E TYPICAL SLAB JOINTS DETAIL



F TYPICAL ISOLATION JOINT DETAIL







H TYPICAL BEAM/ COLUMN DETAILS

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PATH:
PLOT:

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& PUBLIC FACILITIES
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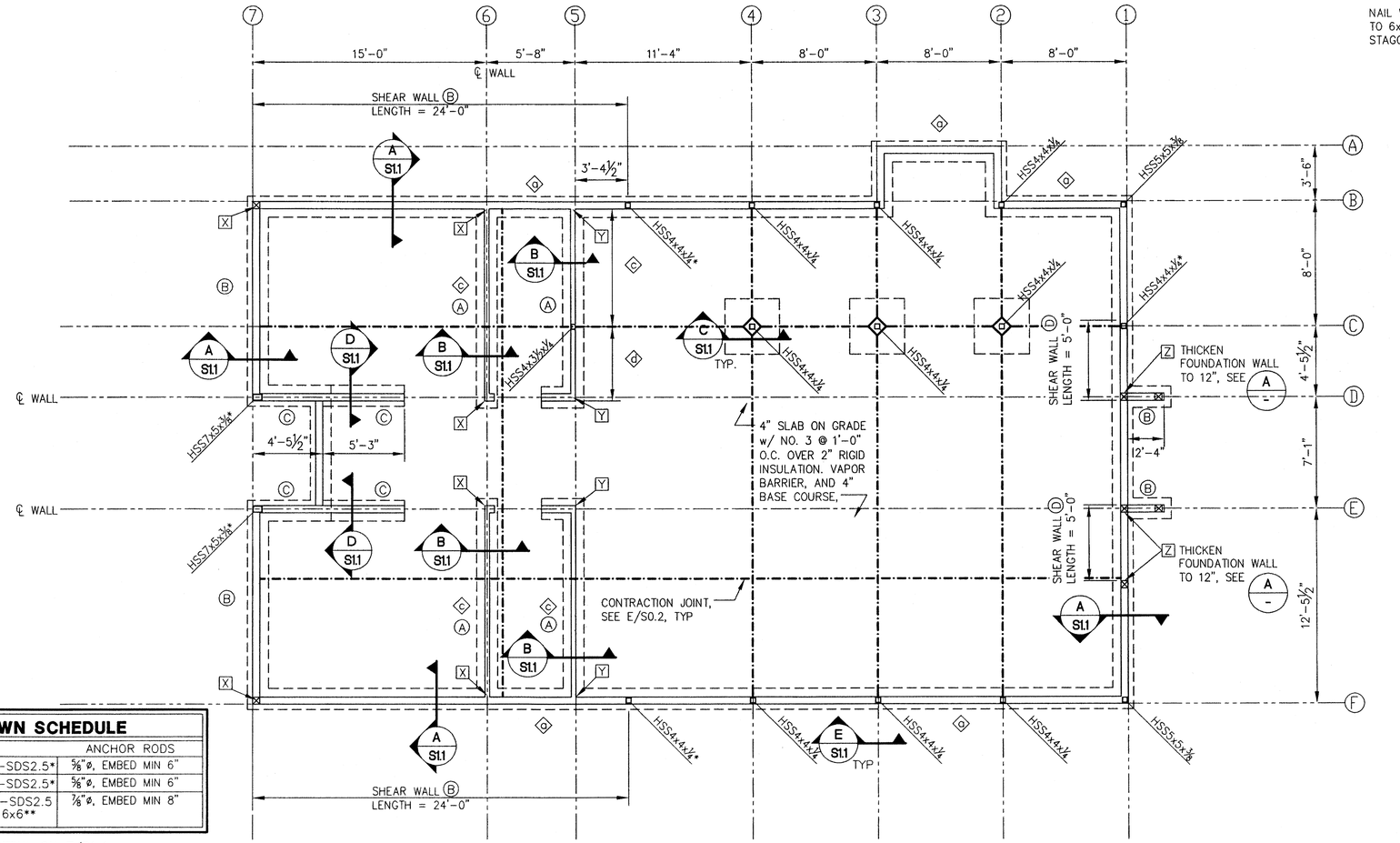
Hoonah Ferry Terminal Project

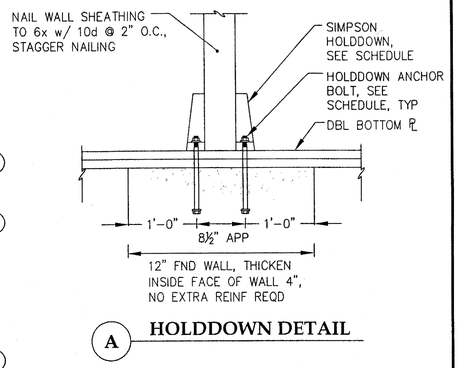
TYPICAL DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE ____ Date 2/16/11

PND ENGINEERS, INC.
9360 Glacier Highway, Ste. 100
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PND NO. 092010

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
2	10/07/09		67813	2009	S0.2	52





A HOLDDOWN DETAIL

HOLDDOWN SCHEDULE		
MARK	TYPE	ANCHOR RODS
X	SIMPSON HDU2-SDS2.5*	⅝"ø, EMBED MIN 6"
Y	SIMPSON HDU4-SDS2.5*	⅝"ø, EMBED MIN 6"
Z	SIMPSON HDU8-SDS2.5 EA SIDE OF 6x6**	⅞"ø, EMBED MIN 8"

* SEE HOLDDOWN DETAIL ON F/S1.1

** SEE HOLDDOWN DETAIL ON A/S1.0

WALL SCHEDULE		
MARK	WALL STUDS	SPACING
a	2x6 DOUG FIR NO. 2	24" O.C.
b	2x6 TIMBERSTRAND***	24" O.C.
c	2x4 DOUG FIR NO. 2	24" O.C.
d	(2)2x4 DOUG FIR NO. 2	24" O.C.

*** (2) 2x6 TIMBERSTRAND, WHERE WALL HEIGHT IS GREATER THAN 15'

SHEAR WALL SCHEDULE			
MARK	SHEATHING	PANEL EDGE NAILING	ANCHOR BOLTS
A	15/32 CDX ONE SIDE	10d@ 6" O.C.	⅝"ø @ 4'-0" O.C.****
B	15/32 CDX ONE SIDE	10d@ 6" O.C.	⅝"ø @ 2'-0" O.C.****
C	15/32 CDX ONE SIDE	10d@ 4" O.C.	⅝"ø @ 2'-0" O.C.****
D	15/32 CDX BOTH SIDES	10d@ 6" O.C.	⅝"ø @ 1'-0" O.C.****

**** A307 HEADED ANCHOR BOLTS, EMBED MIN 6" IN CONCRETE, w/ ¼"x3"x3" ℄ WASHERS

1 FOUNDATION PLAN

SCALE: 0' 2' 4' 8'

NOTES:

1) DIMENSIONS ARE TO FACE OF STUD OR ℄ OF COLUMN UNLESS NOTED OTHERWISE.
2) WALLS ARE TYPE ◇b UNLESS NOTED OTHERWISE.
3) ATTACH HOLDDOWNS TO MINIMUM DOUBLE STUD OR 6x6 AT END OF SHEAR WALL.
4) ⊠ DENOTES 6x6 U.N.O., ATTACH TO BOTTOM ℄ w/ SIMPSON A35 EA SIDE OF POST.
5) * NAIL SHEAR WALL SHEATHING TO COLUMN 2x NAILER EACH SIDE w/ EDGE NAILING.
6) EXTERIOR NON SHEAR WALLS SHALL HAVE TYPICAL ANCHOR BOLTS @ 2'-0" O.C.
7) INTERIOR NON SHEAR WALLS SHALL BE ANCHORED INTO SLAB w/ ¼" CONCRETE SPLIT DRIVE ANCHORS @ 4'-0" O.C., EMBED MIN 2".

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE: _____ Date: 4/16/11

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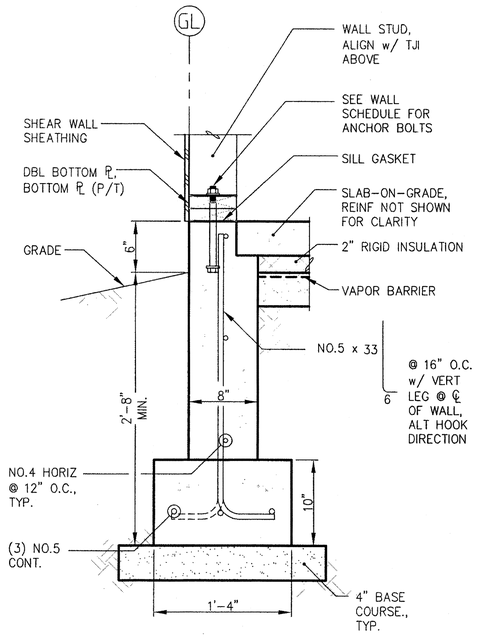
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PATH:
PLOT:

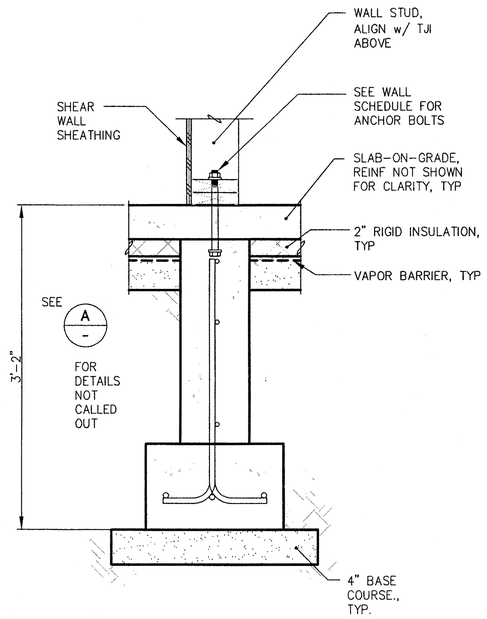
Hoonah Ferry Terminal Project

FOUNDATION PLAN

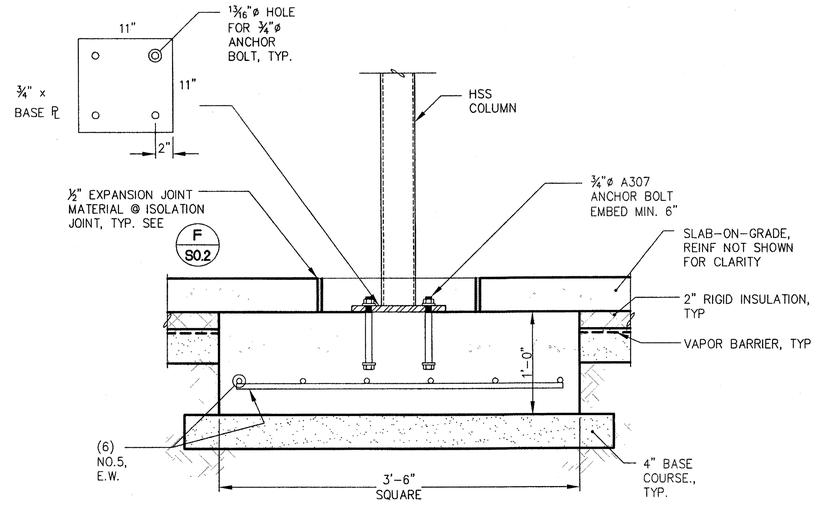
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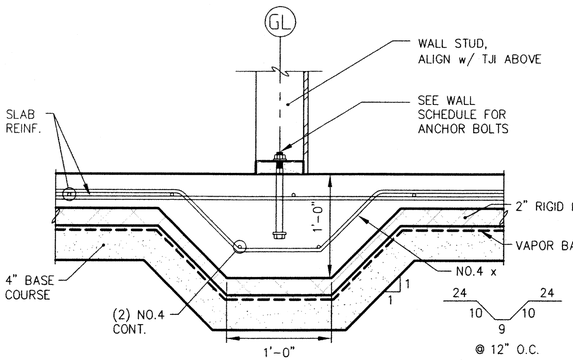
A TYPICAL SECTION AT EXTERIOR FOOTING



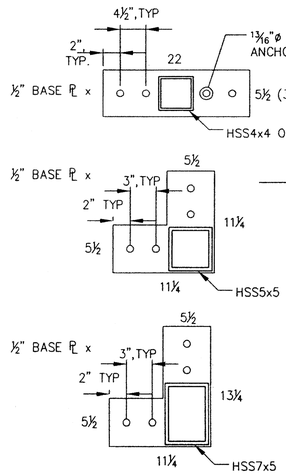
B TYPICAL SECTION AT INTERIOR FOOTING

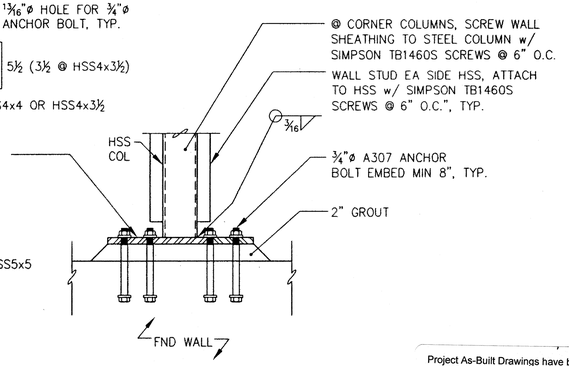


C TYPICAL SECTION AT INTERIOR SPREAD FOOTING

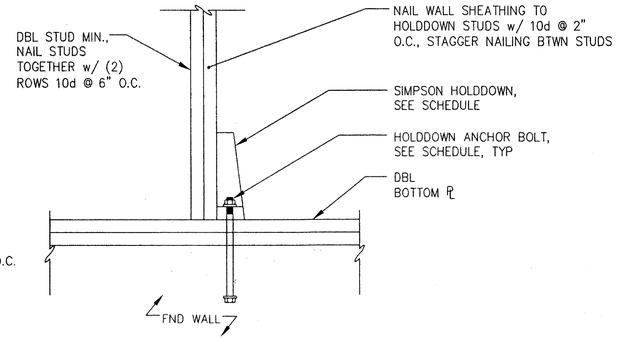


D TYPICAL SECTION AT INTERIOR FOOTING





E TYPICAL COLUMN BASE DETAIL AT FOUNDATION WALL



F HOLDDOWN DETAIL

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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

P N D ENGINEERS, INC.
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JUNEAU, ALASKA 99801
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FAX (907) 586-2099
PND NO. 092010

DESIGNED BY: BCN

STATE OF ALASKA — Christopher Gianotti 10/7/09 SE-7559 — REGISTERED PROFESSIONAL ENGINEER

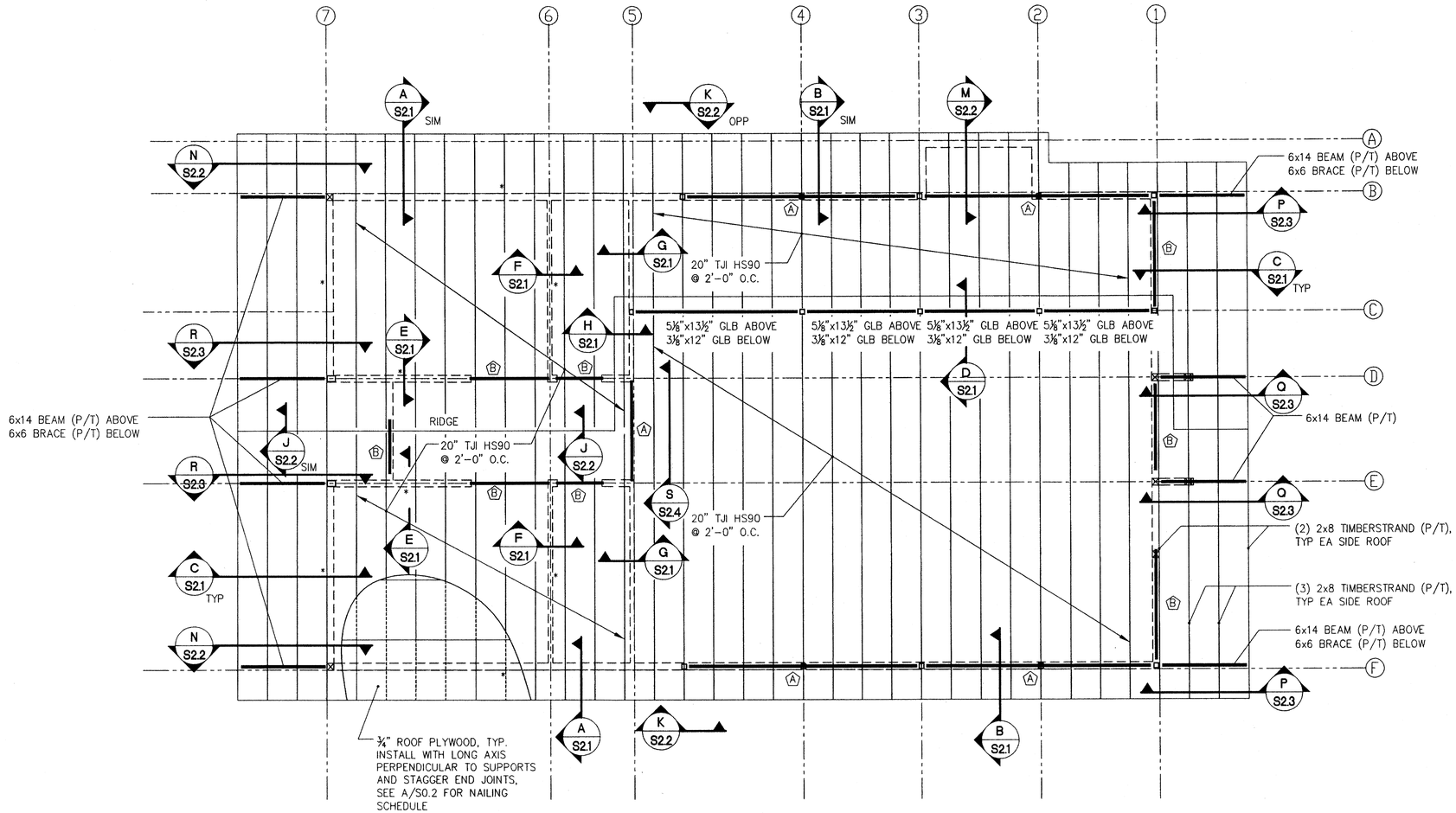
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Hoonah Ferry Terminal Project

FOUNDATION SECTIONS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
2	10/07/09		67813	2009	S1.1	52



HEADER SCHEDULE

MARK	HEADER SIZE	KING STUDS
Ⓐ	5⅛"x10½" GLB	–
Ⓑ	(3) 2x12	DBL. STUD

1 ROOF FRAMING PLAN

SCALE: 0' 2' 4' 8'

NOTES:

1) * DENOTES TOP PLATE SPLICE IN SHEAR WALL, SEE L/S2.2.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PE [signature] Date 2/11/11

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STATE OF ALASKA
Christopher Gianotti
10/7/09
CE-7559
REGISTERED PROFESSIONAL ENGINEER

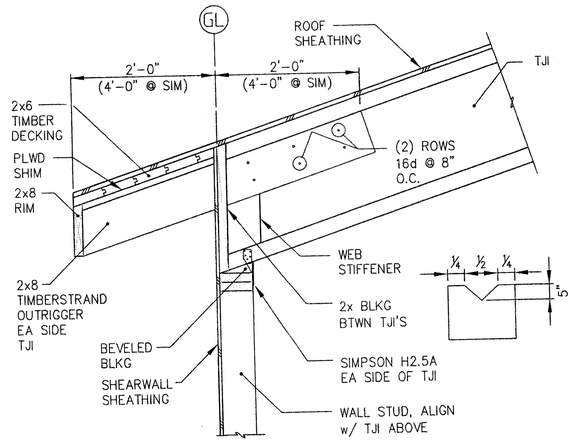
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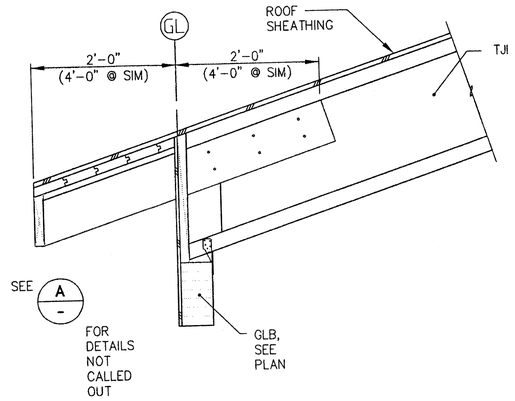
Hoonah Ferry Terminal Project

ROOF FRAMING PLAN

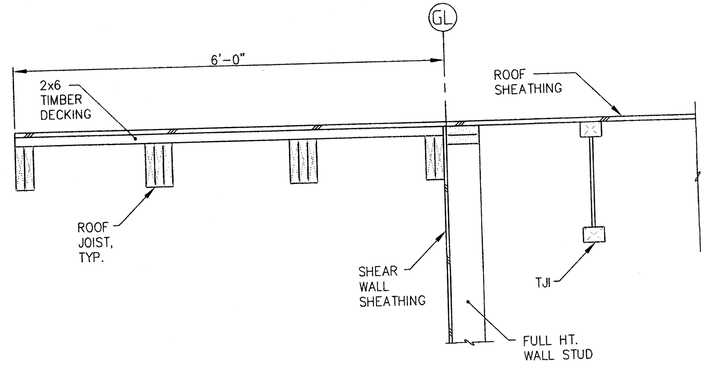
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2	10/07/09		67813	2009	S2.0	52



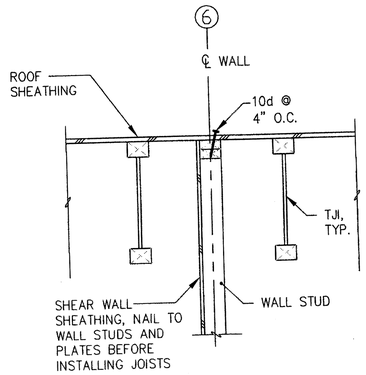
A **SECTION AT EXTERIOR WALL**



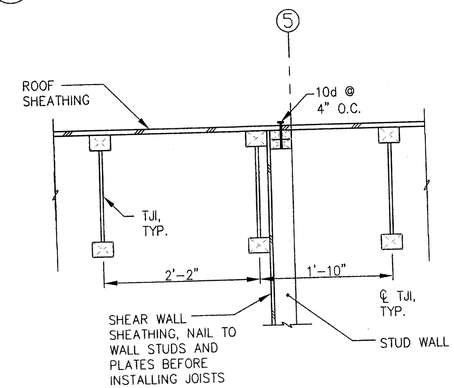
B **SECTION AT EXTERIOR WALL**



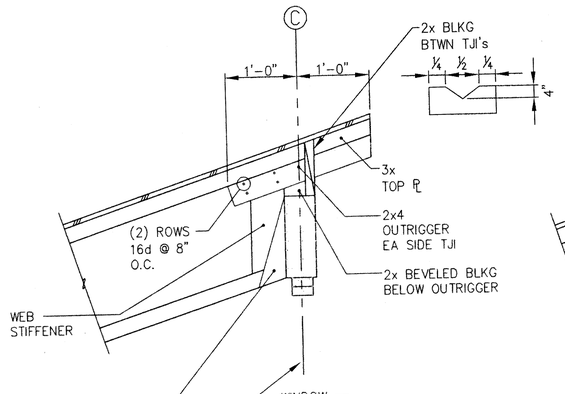
C **SECTION AT EXTERIOR WALL**

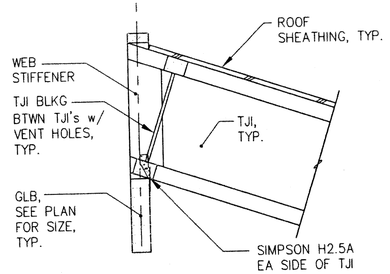


F **SECTION AT INTERIOR SHEAR WALL**

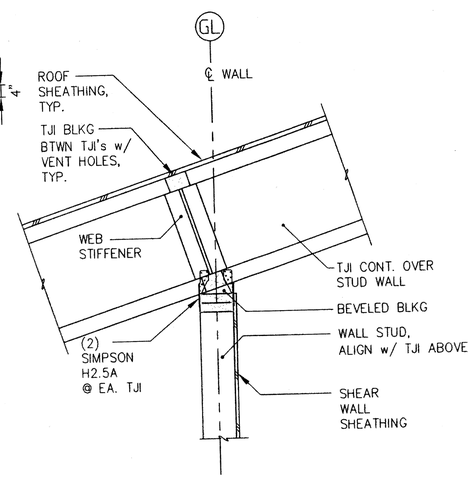


G **SECTION AT INTERIOR SHEAR WALL**

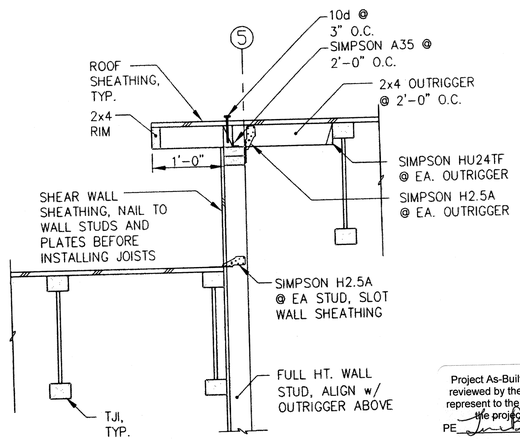




D **SECTION AT CLERESTORY**



E **SECTION AT INTERIOR BEARING WALL**



H **SECTION AT INTERIOR SHEAR WALL**

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PE _____ Date 2/16/11

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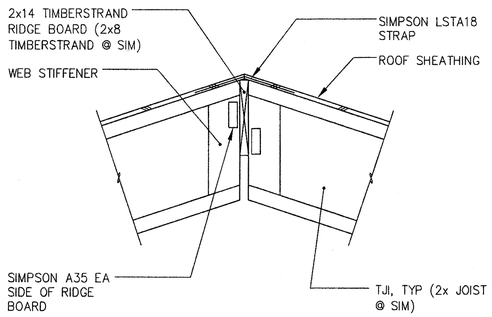
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STATE OF ALASKA 49TH Christopher Connolly 10/7/09 CE-7559 REGISTERED PROFESSIONAL ENGINEER

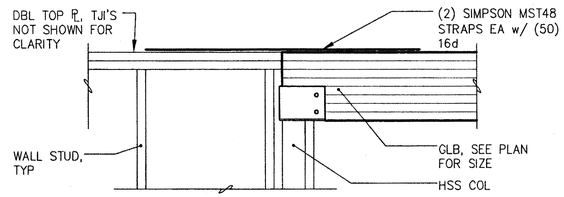
Hoonah Ferry Terminal Project

ROOF SECTIONS

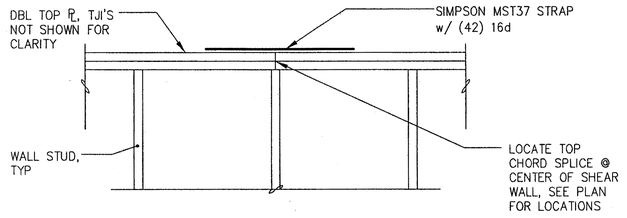
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHEE
NO.	DATE	DESCRIPTION				
2	10/07/09		67813	2009	S2.1	52



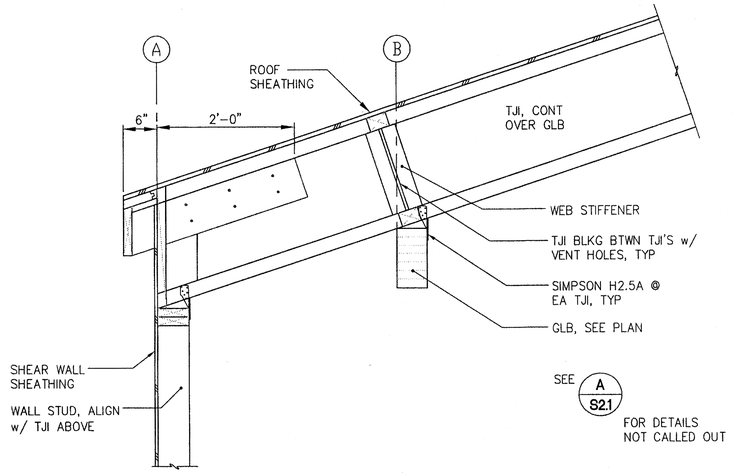
J **SECTION AT ROOF RIDGE**



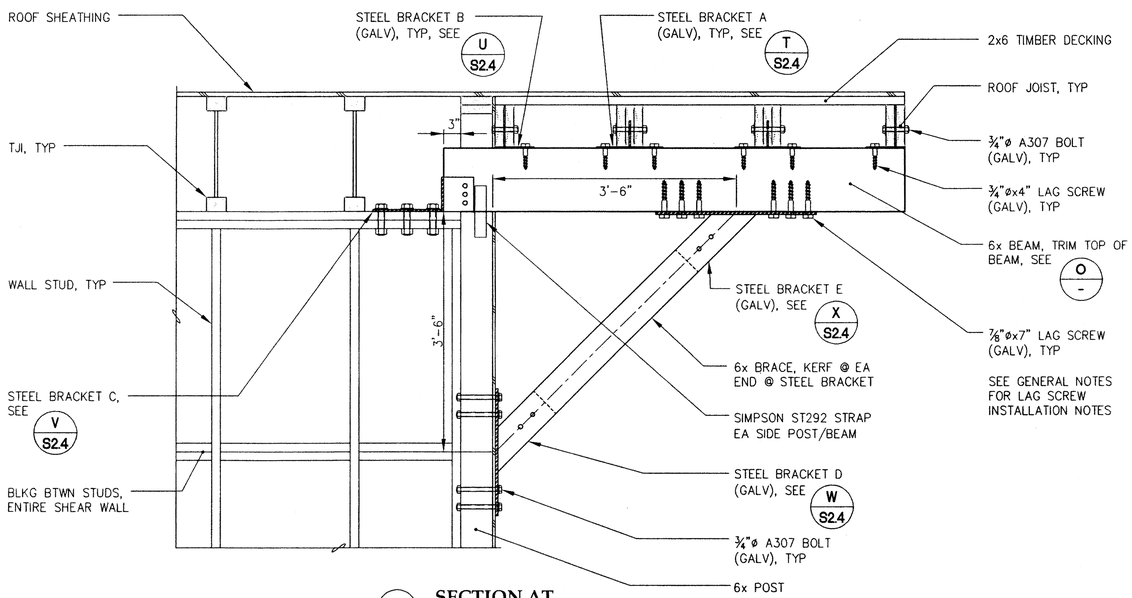
K **DRAG STRUT DETAIL**



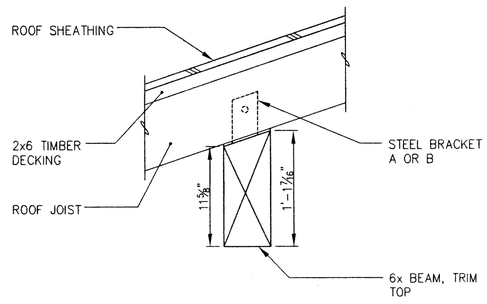
L **SHEAR WALL TOP CHORD SPLICE DETAIL**



M **SECTION AT EXTERIOR WALL**



N **SECTION AT OVERHANG**



O **SECTION AT OVERHANG**

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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/16/11

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JUNEAU, ALASKA 99801
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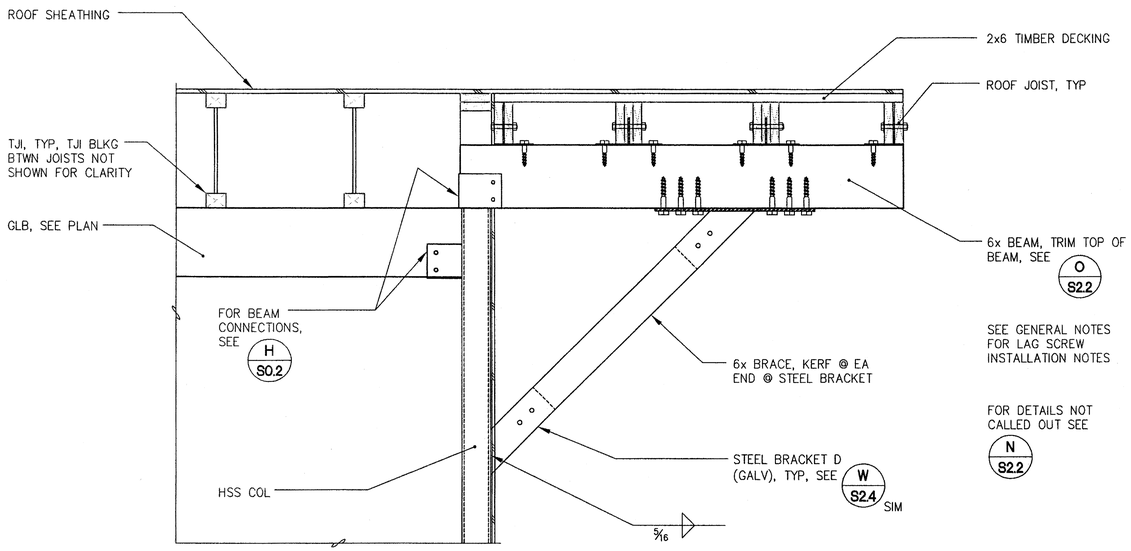
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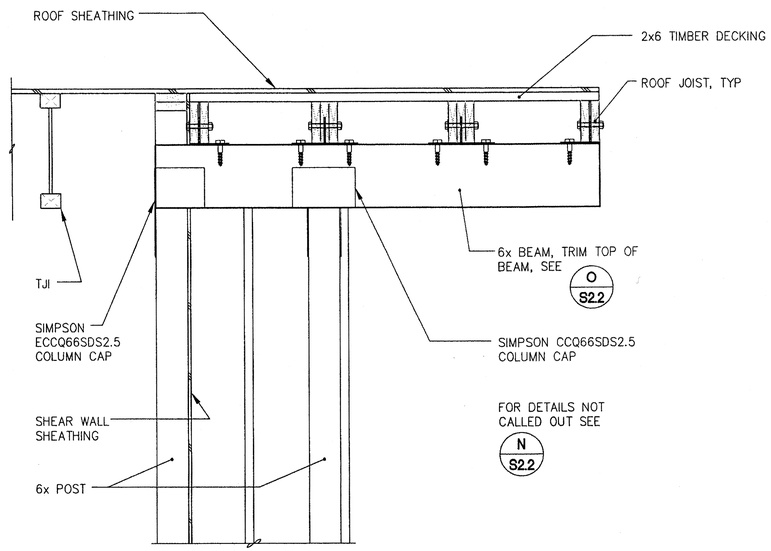
Hoonah Ferry Terminal Project

ROOF DETAILS

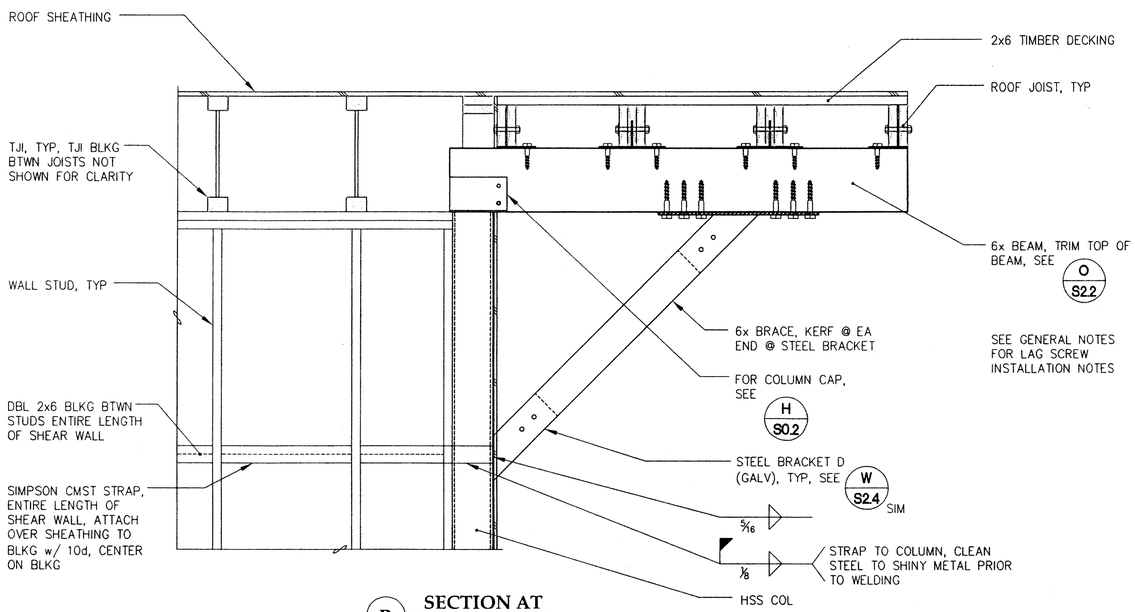
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P **SECTION AT OVERHANG**



Q **SECTION AT OVERHANG**



R **SECTION AT OVERHANG**

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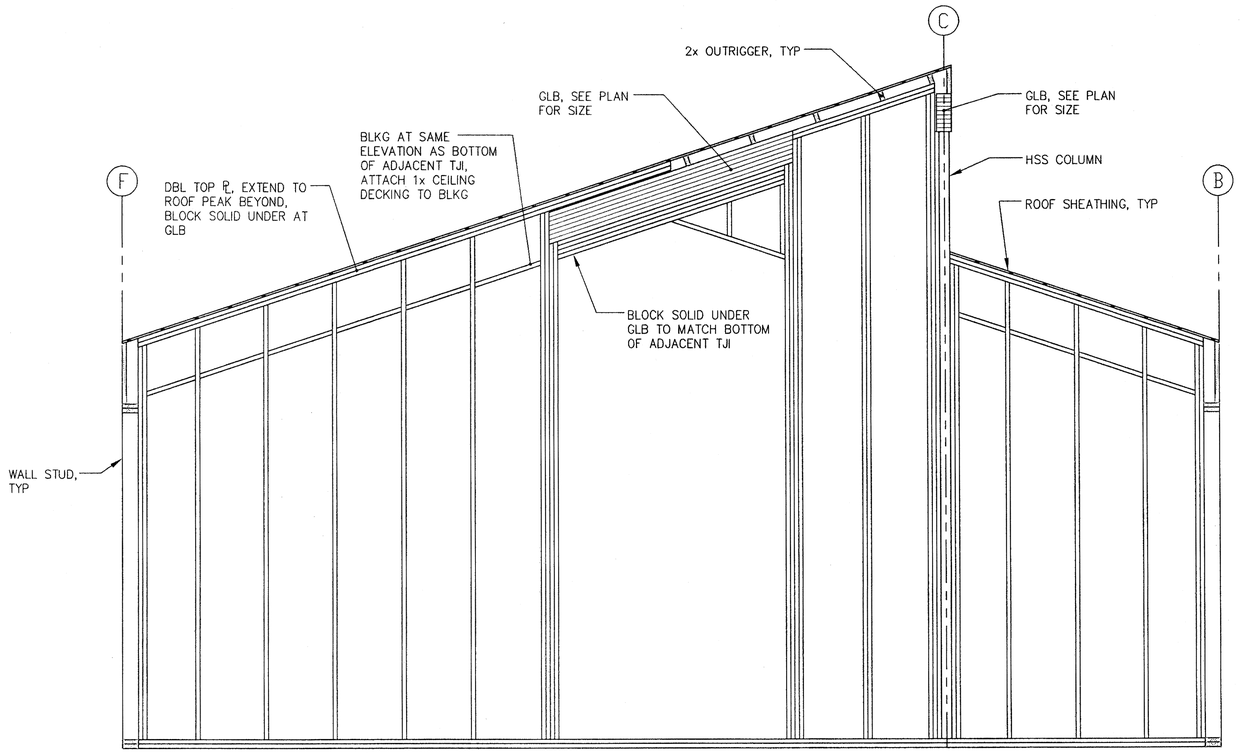
STATE OF ALASKA
Christopher Gianotti
10/1/09
CE-7509
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
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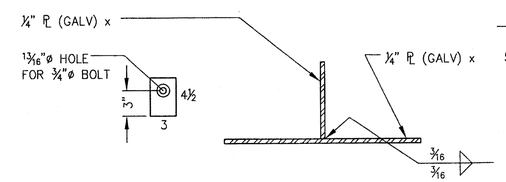
Hoonah Ferry Terminal Project

ROOF DETAILS

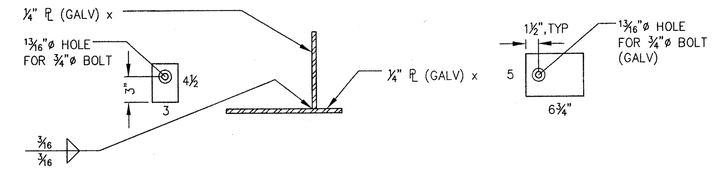
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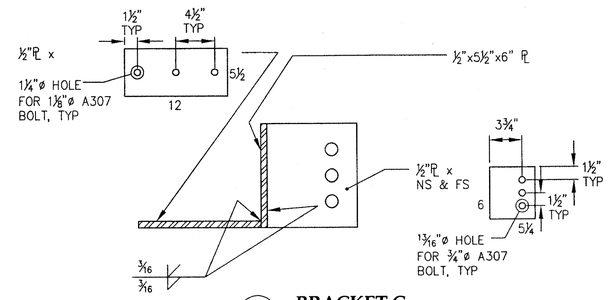
S WALL ELEVATION GRIDLINE 5



T BRACKET A DETAIL

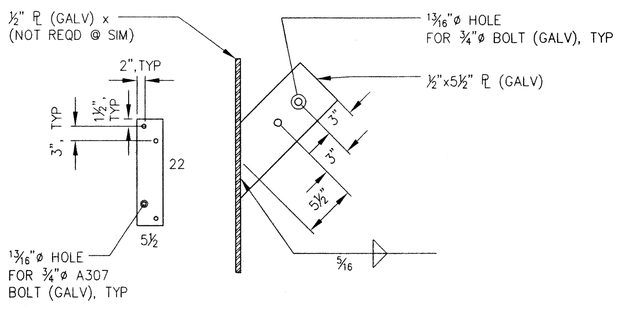


U BRACKET B DETAIL

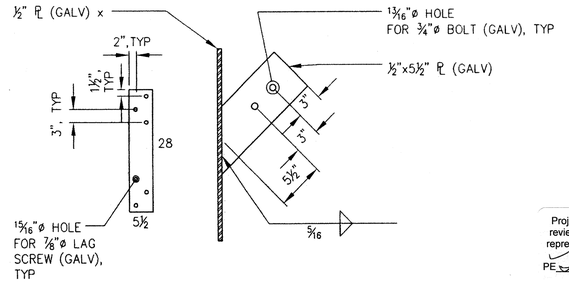


V BRACKET C DETAIL

GALVANIZE BRACKETS AFTER FABRICATION



W BRACKET D DETAIL



X BRACKET E DETAIL

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PE _____ Date 2/16/11

P N D ENGINEERS, INC.
9360 Glacier Highway, Ste. 100
JUNEAU, ALASKA 99801
PHONE (907) 586-2093
FAX (907) 586-2099
PND NO. 092010

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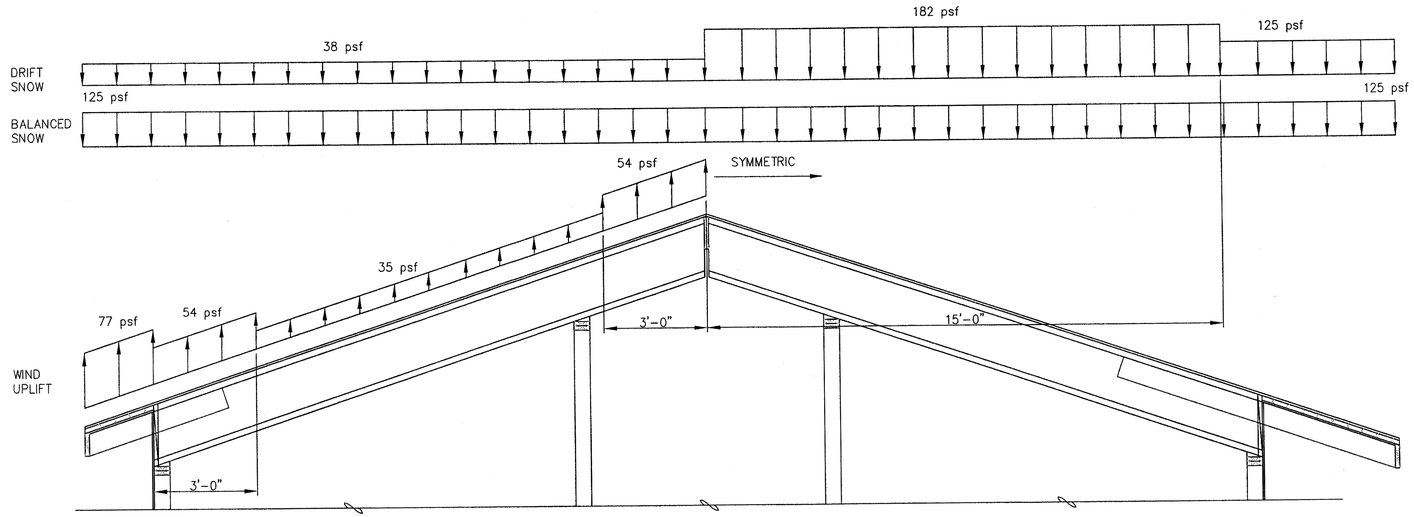
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Hoonah Ferry Terminal Project

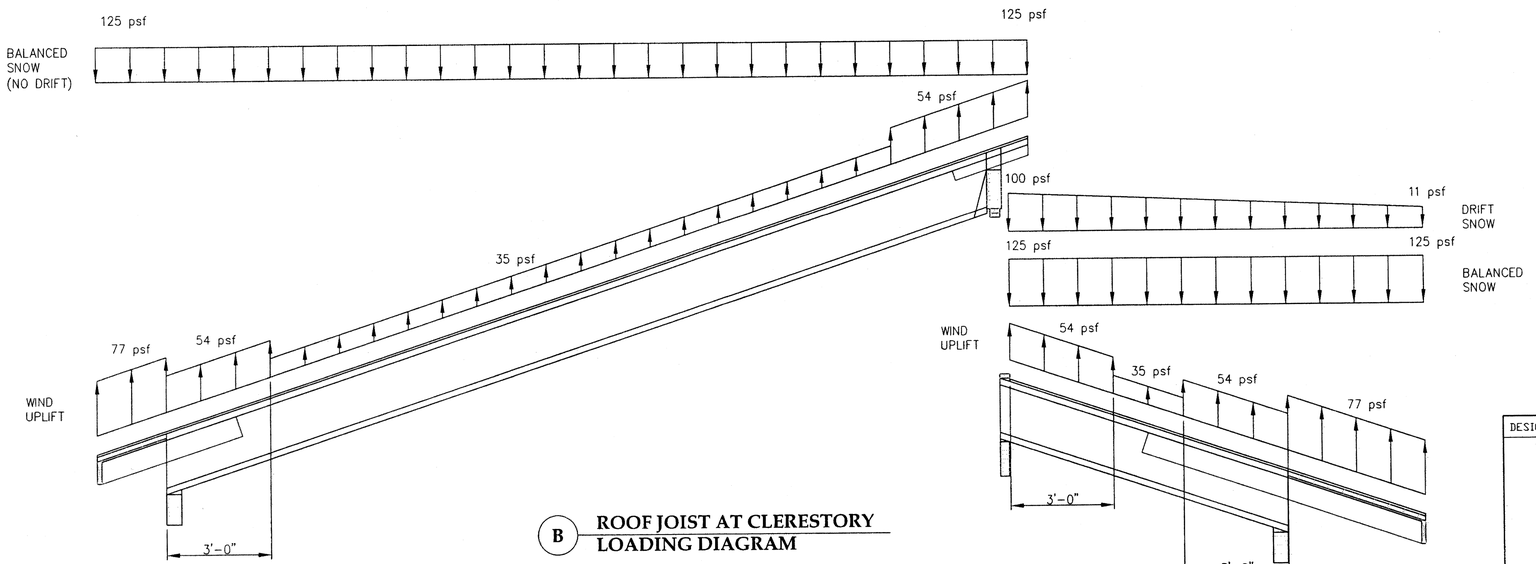
WALL ELEVATION AND DETAILS

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67813	2009	S2.4	52



A **ROOF JOIST LOADING DIAGRAM**



B **ROOF JOIST AT CLERESTORY LOADING DIAGRAM**

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ROOF LOAD DETAILS

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PND NO. 092010

PLUMBING EQUIPMENT SCHEDULE

EQUIPMENT	DESIGN MANUFACTURER	OPTIONS/TRIM
WATER CLOSET, WC-1 (ADA)	KOEHLER	FLOOR MOUNTED, SIPHON JET VITREOUS CHINA CLOSET BOWL, WITH ELONGATED RIM, 1-1/2 INCH TOP SPUD, CHINA BOLT CAPS. BATTERY OPERATED FLUSH VALVE, ELECTRONIC SENSOR OPERATED, WITH MANUAL OVERRIDE. ASME A112.18.1; POLISHED CHROME, DIAPHRAGM TYPE, WITH SCREWDRIVER STOP AND VACUUM BREAKER; MAXIMUM 1.6 GALLON FLUSH VOLUME. SEAT: SOLID PLASTIC, ELONGATED, OPEN FRONT, EXTENDED BACK, SELF-SUSTAINING HINGE, BRASS BOLTS, WITHOUT COVER.
WATER CLOSET, WC-2	KOEHLER	FLOOR MOUNTED, SIPHON JET VITREOUS CHINA CLOSET BOWL, WITH ELONGATED RIM, 1-1/2 INCH TOP SPUD, CHINA BOLT CAPS. BATTERY OPERATED FLUSH VALVE, ELECTRONIC SENSOR OPERATED. ASME A112.18.1; POLISHED CHROME, DIAPHRAGM TYPE, WITH SCREWDRIVER STOP AND VACUUM BREAKER; MAXIMUM 1.6 GALLON FLUSH VOLUME. SEAT: SOLID PLASTIC, ELONGATED, OPEN FRONT, EXTENDED BACK, SELF-SUSTAINING HINGE, BRASS BOLTS, WITHOUT COVER.
URINAL, U-1 (ADA)	KOEHLER, BARDON	VITREOUS CHINA, WALL HUNG WASHOUT URINAL WITH SHIELDS, INTEGRAL TRAP, 3/4 INCH TOP SPUD, ELONGATED RIM, REMOVABLE STAINLESS STEEL STRAINER, STEEL SUPPORTING HANGER. ADA APPROVED. CONCEALED FLUSH VALVE, ELECTRONIC OPERATED FLUSH VALVE WITH MANUAL OVERRIDE: ASME A112.18.1; CHROME PLATED, DIAPHRAGM TYPE; MAXIMUM 1 GALLON FLUSH VOLUME. SLOAN OPTIMA 8186 SERIES. WALL MOUNTED CARRIER: ASME A112.6.1; CAST IRON AND STEEL FRAME WITH TUBULAR LEGS, LUGS FOR FLOOR AND WALL ATTACHMENT, THREADED FIXTURE STUDS FOR FIXTURE HANGER, BEARING STUDS.
LAVATORY, L-1 (ADA)	KOEHLER	VITREOUS CHINA COUNTER MOUNTED BASIN: ASME A112.19.2; VITREOUS CHINA WALL HUNG LAVATORY 20 x 18 INCH MINIMUM, WITH 4 INCH HIGH BACK, SINGLE HOLE CENTER DRILLINGS, RECTANGULAR BASIN WITH SPLASH LIP, AND FRONT OVERFLOW. INSULATION SHIELDS ON PLUMBING PIPING FOR ADA COMPLIANCE. SUPPLY FITTING AND FAUCET: ASME A112.18.1; ELECTRONIC/INFRARED SENSOR TYPE FAUCET WITH BELOW DECK SOLENOID VALVE/CONTROL MODULE AND MECHANICAL MIXING VALVE. CHROME PLATED SHORT PEDESTAL FAUCET AND WATER ECONOMY AERATOR WITH MAXIMUM 0.5 GPM FLOW. ADA COMPLIANT. ACCESSORIES: CHROME PLATED 17-GAGE BRASS P-TRAP WITH CLEAN-OUT PLUG AND ARM WITH ESCUTCHEON. OFFSET WASTE WITH PERFORATED OPEN GRID STRAINER. WHEEL HANDLE STOPS. RIGID SUPPLIES. WALL MOUNTED CARRIER: ASME A112.6.1; CAST IRON AND STEEL FRAME WITH TUBULAR LEGS, LUGS FOR FLOOR AND WALL ATTACHMENT, CONCEALED ARM SUPPORTS, BEARING PLATE AND STUDS.
SERVICE SINK, SS	KOEHLER, AMERICAN STANDARD	28"x28" CORNER STYLE, ENAMELED CAST-IRON FLOOR MOUNT, 3-INCH OUTLET, MIXING FAUCET WITH VACUUM BREAKER.
FLOOR DRAIN, FD-1	ZURN, Z-415	GALVANIZED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND ROUND, ADJUSTABLE NICKEL-BRONZE 6 INCH DIAMETER STRAINER WITH SQUARE HOLES. WITH PRIMING LINE CONNECTION. FD 2" WASTE CONNECTION.
HOT WATER TANK, HWT-1	A.O. SMITH	20 GALLON, SINGLE ELEMENT, 240 VOLT, INTEGRAL THERMOSTAT, ASME PRESSURE-TEMPERATURE RELIEF VALVE.
DRINKING FOUNTAIN, DF	HAWS	DUAL ADA UNIT, STAINLESS STEEL, RECTANGULAR BASINS.
TV-1	POWERS	ANTI-SCALD THERMOSTATIC MIXING VALVE.

FAN SCHEDULE

EQUIPMENT	AREA SERVED	CFM	SP, INCHES OF WATER	MANUFACTURER AND MODEL	MIN. HP	VOLTS/ PHASE	FEATURES AND ACCESSORIES
TEF-1	TOILET, MENS	150	0.2" TSP	PANASONIC, FV-20VQ	32 WATTS	120V/1ø	INLET GRILLE DUCT OUTLET CABINET EXHAUST CEILING FAN.
TEF-2	TOILET, WOMENS	150	0.2" TSP	PANASONIC, FV-20VQ	32 WATTS	120V/1ø	INLET GRILLE DUCT OUTLET CABINET EXHAUST CEILING FAN.
TEF-3	TOILET, JANITOR	90	0.1" TSP	PANASONIC, FV-08VQ	18 WATTS	120V/1ø	INLET GRILLE DUCT OUTLET CABINET EXHAUST CEILING FAN.
TRANSFER FAN, TF	TOILET ROOMS	200	0.25	PEN TRANSFAN	60 WATTS	120V/1ø	DIRECT DRIVE DUAL FAN TRANSFER FAN, IN-THE-WALL MOUNTED. STEEL GRILLE, BOTH ENDS. RECESSED SPEED CONTROLLER.
CEILING FAN, CF-1	LOBBY	6300	–	HUNTER DIMENSIONS	5 WATTS HIGH SPEED	120V/1ø	PROPELLER TYPE CEILING FAN. 52" DIA. CEILING FAN WITH MAPLE/CHERRY VENEER BLADES (5), ANTIQUE PEWTER FINISH, 36" DOWNROD. MULTIPLE SPEED FAN CONTROL.

HEATING EQUIPMENT SCHEDULE

EQUIPMENT	MANUFACTURER	MODEL	CAPACITY/SIZE	FEATURES/CONTROLS/OPTIONS
OIL-FIRED HEATING UNIT, OHU-1	TOYOTOMI	L-73AT	HIGH: 40MBH, 120V, 1ø	DIRECT VENT OIL-FIRED HEATING UNIT WITH BLOWER. #1 FUEL OIL, THERMOSTATICALLY CONTROLLED 4-CYCLE BURNING MODE. SHUT-OFF SAFETY SYSTEM, DISPLAY OF TEMPERATURES AND ERROR CODES, PROGRAMMABLE TEMPERATURE AND 24 HOUR SETTINGS. U.L. LISTED. SAFETY DEVICES HIGH LIMIT, FLAME SENSOR, BLOWER MOTOR SENSOR, FUSIBLE LINK VALVE. DIRECT VENT THROUGH-THE-WALL ASSEMBLY WITH CAP. LIFT PUMP. WALL BRACE KIT. DRIP PAN ASSEMBLY. REMOTE SENSOR. HEATING EFFICIENCY 87% (AFUE).
OIL STORAGE TANK, OT-1	CONVAULT	AST	500 GALLON NOMINAL	ABOVEGROUND OIL STORAGE TANK, INSULATED, FIRERATED, UL 2085. PRIMARY STEEL TANK AND SECONDARY CONTAINMENT ENCASED IN 6 INCHES CONCRETE. 30 YEAR WARRANTY. PROVIDE LEG STAND AND SUPPORTS. CONTAINMENT FILL WITH LOCKING FUEL CAP, T-STYLE OIL VENT, ANALOG FUEL GAGE, AND DOUBLE TAPPED BUSHING FOR OIL SUPPLY PIPING. EMERGENCY VENTS.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	HOT WATER	COLD WATER	WASTE	VENT
WATER CLOSET FLUSH VALVE TYPE, WC	–	1"	4	2
URINAL, U	–	3/4	2	1 1/2
LAVATORY, L	1/2	1/2	1-1/2	1-1/4
FLOOR DRAIN, FD	–	–	2	2
PRIMING LINE	–	1/2	–	–
SERVICE SINK, SS	1/2	1/2	3	2
DRINKING FOUNTAIN, DF	–	1/2	1-1/2	1-1/4

NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

MECHANICAL CODE NOTES:

1. CODES & REGULATIONS: ALL WORK HEREUNDER SHALL BE STRICTLY IN CONFORMANCE WITH APPLICABLE CODES AND REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE, 2006 INTERNATIONAL MECHANICAL CODE, 2006 UNIFORM PLUMBING CODE, NFPA, AND STATE OF ALASKA MODIFICATIONS. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UL LABEL. ALL SHEET METAL WORK TO BE DONE IN ACCORDANCE WITH SMACNA REQUIREMENTS. PROVIDE ALL TESTING REQUIREMENTS FOR MECHANICAL SYSTEMS AS REQUIRED AND WITNESSED BY ADMINISTRATIVE AUTHORITY.
2. INSTALLATION OF PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH CROSS CONNECTION REQUIREMENTS OF CHAPTER 6 OF UPC.

SYMBOLS

——— · ———	CW	COLD WATER
——— · · ———	HW	HOT WATER
– – V – – – – V – – – – V – – –	V	VENT
——— ——— ——— ——— ———	W	WASTE, SOIL, DRAINAGE
——— OS ———	OS	OIL SUPPLY
	DF	DRINKING FOUNTAIN
	DN	DOWN
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	L	LAVATORY
	OHTR	OIL HEATER
	SS	SERVICE SINK
	TEF	TOILET EXHAUST FAN
	TF	WALL TRANSFER FAN
	TP	TRAP PRIMER
	TV	TEMPERING VALVE
	U	URINAL
	VTR	VENT THROUGH ROOF
	WC	WATER CLOSET
	YCO	YARD CLEANOUT
		THERMOSTAT
	S	CONTROL SWITCH
		ISOLATION VALVE

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MURRAY & ASSOCIATES, P.C.
CONSULTING ENGINEERS
P O BOX 21081
JUNEAU, ALASKA 99802
TEL: 907 780-6151
FAX: 907 780-6182

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

DESIGNED BY: DM

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — DOUGLAS H. MURRAY — ME 7870 — ISSUE DATE: 10-07-2009

CHECKED BY: DM
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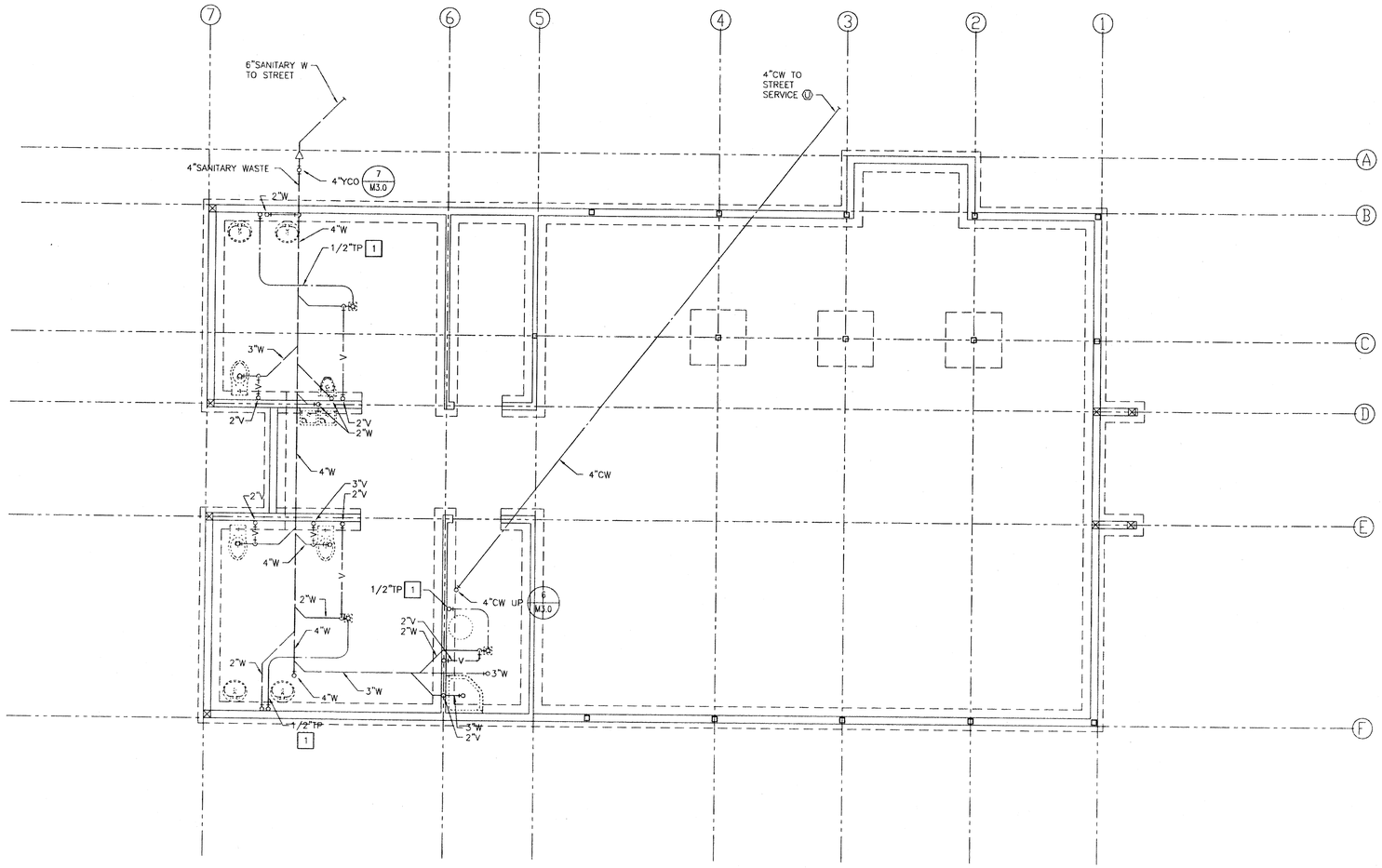
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Hoonah Ferry Terminal

Project

REVISIONS		
NO.	DATE	DESCRIPTION
2	10/07/09	REVISION

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1 Underground Plan

0 2' 4'

CONSTRUCTION NOTES:

1 1/2" TYPE K COPPER TO FD TRAP PRIMER CONNECTION.

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STATE OF ALASKA
DOUGLAS H. MURRAY
ME 7870
REGISTERED PROFESSIONAL ENGINEER
ISSUE DATE: 10-07-2009

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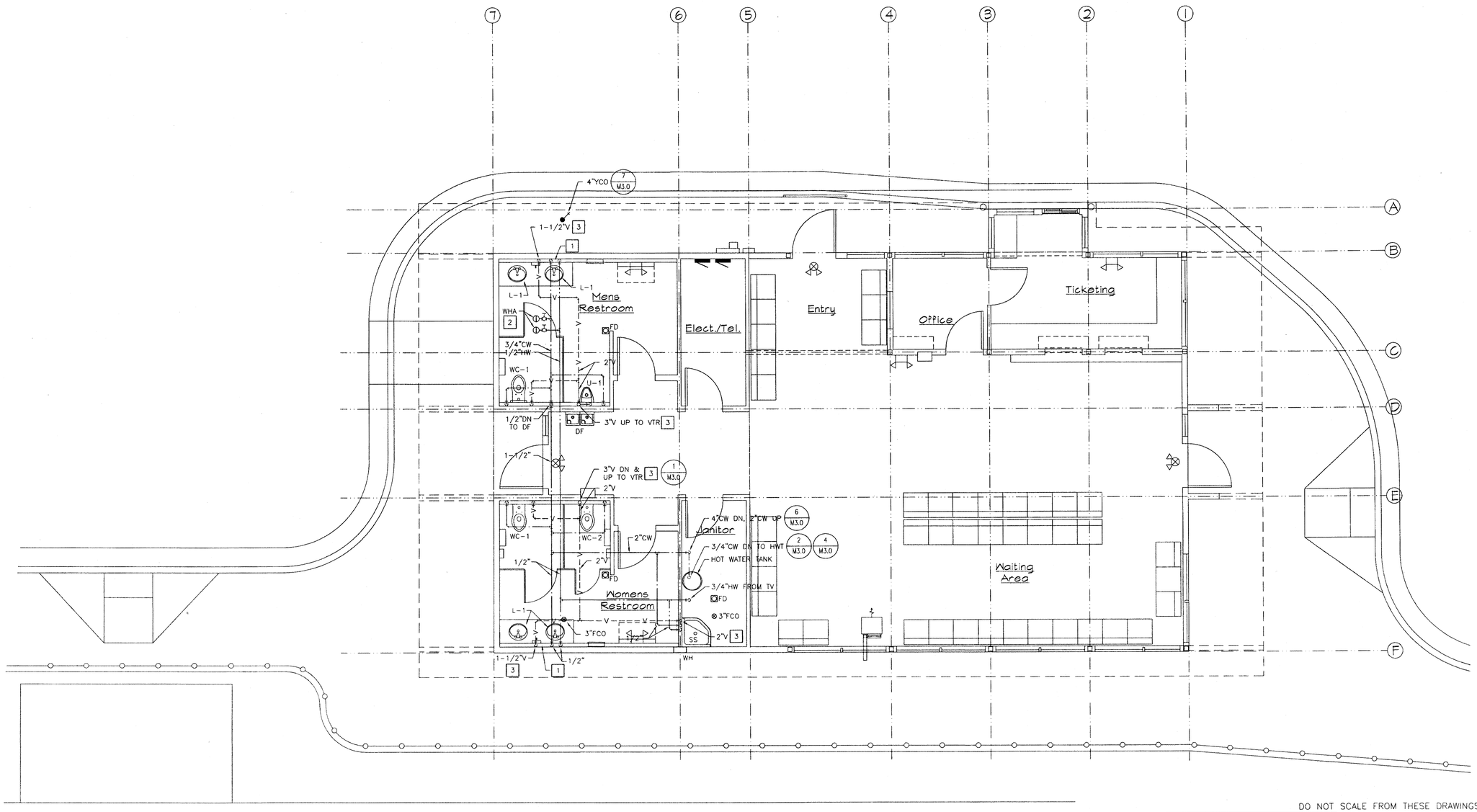
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1 Plumbing Plan

0 2' 4'

SHEET NOTES:

1. SEE PLUMBING FIXTURE CONNECTION SCHEDULE ON SHEET M1.0 FOR INDIVIDUAL FIXTURE PIPE SIZES.

CONSTRUCTION NOTES:

1. 1/2"TP CONNECT TO LAVATORY TAILPIECE.
2. WHA's AND VALVES ACCESSIBLE THROUGH 18"x18" ACCESS DOOR.
3. COMMON VENT FROM MULTIPLE FIXTURE VENTS BELOW.

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PE Jim Berg Date 2/16/10

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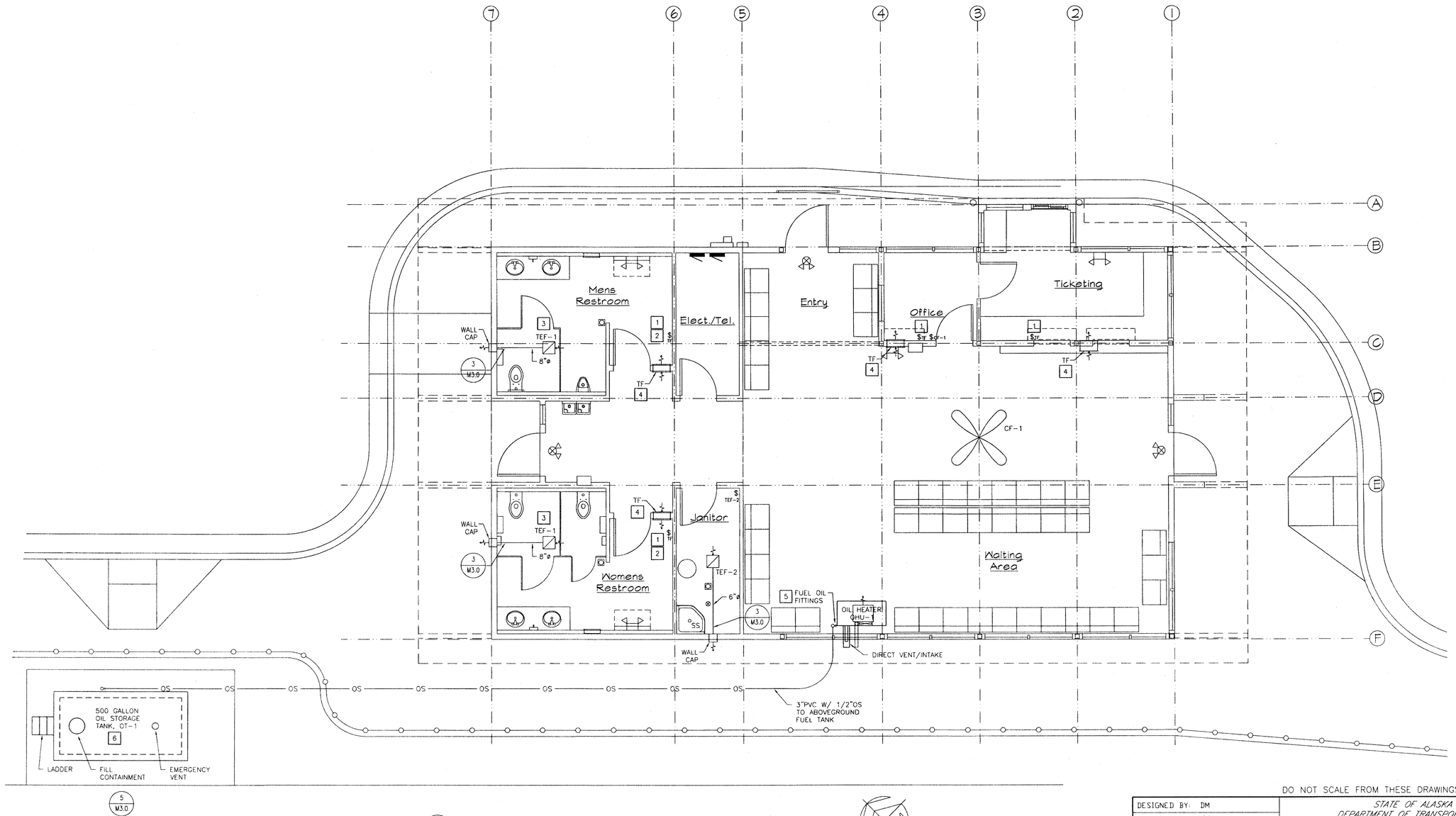
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1 Ventilation & Heating Plan

0 2' 4'

CONSTRUCTION NOTES:

1. FAN SPEED CONTROLLER. LOCATE ADJACENT TO LIGHT SWITCH.
2. PROVIDE LOCKING PLASTIC COVER.
3. OPERATION OF TEF-1 BY OCCUPANCY SENSOR, SEE ELECTRICAL.
4. MOUNT TRANSFER FAN AT 9'-0" ABOVE FLOOR. FAN CONTROLLED BY SPEED CONTROL SWITCH LOCATED WHERE SHOWN.
5. INSTALL FUEL FILTER AND FIROMATIC SHUTOFF VALVES EITHER SIDE OF FILTER. INSTALL DRIP PAN BELOW FILTER.
6. FILL TANK AT COMPLETION OF PROJECT WITH DIESEL NO. 1 OR 1-K KEROSENE.

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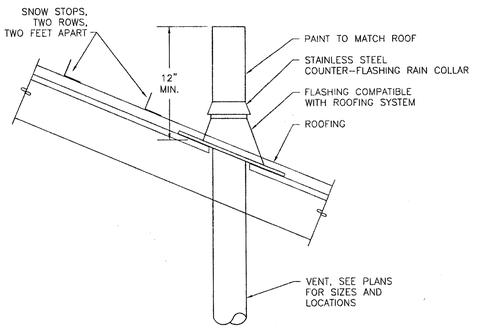
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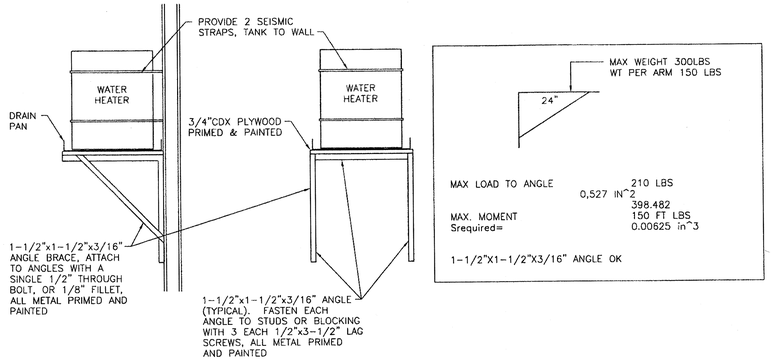
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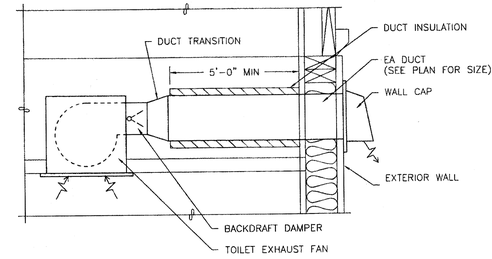
1 Vent Through Roof Detail

NO SCALE



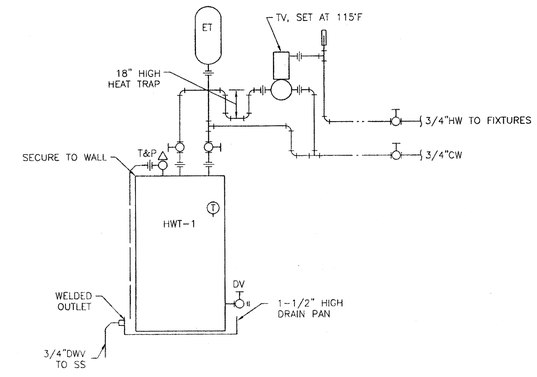
2 Water Heater Support Detail

NO SCALE



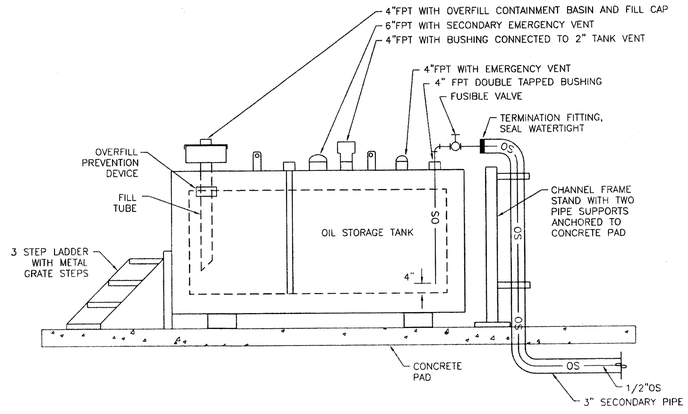
3 Toilet Exhaust Fan Detail

NO SCALE



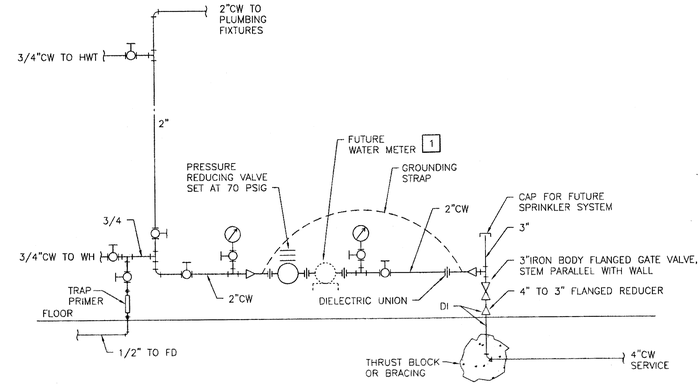
4 Hotwater Tank HWT Detail

NO SCALE



5 Fuel Tank Detail

NO SCALE

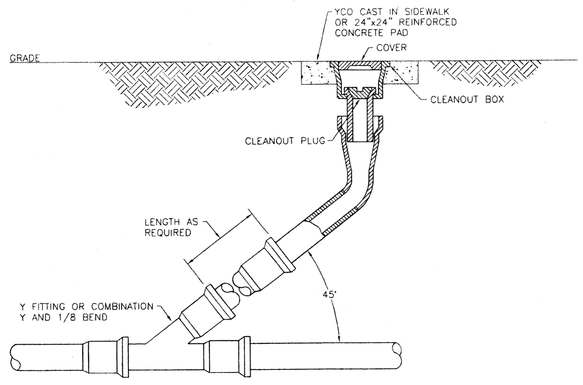


CONSTRUCTION NOTES:

1 PROVIDE 18" LONG NIPPLE FOR FUTURE METER.

6 Water Header Piping Diagram

NO SCALE



7 Yard Clean Out Detail

NO SCALE

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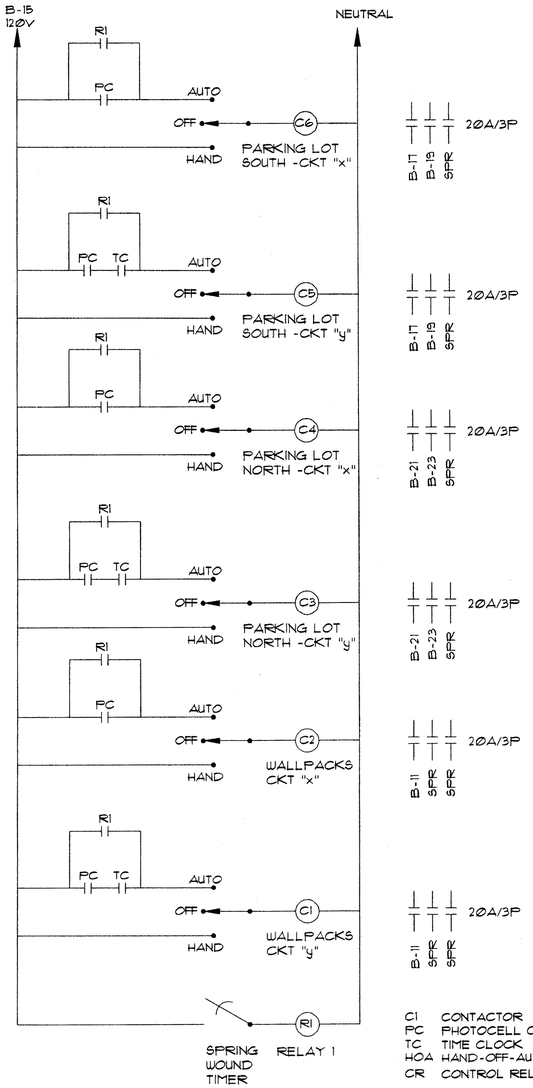
STATE OF ALASKA 49th DOUGLAS H. MURRAY ME 7870 REGISTERED PROFESSIONAL ENGINEER
ISSUE DATE: 10-07-2009

Hoonah Ferry Terminal

Project

REVISIONS		
NO.	DATE	DESCRIPTION
2	10/07/09	REVISION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	M3.0	52



1 EXTERIOR LIGHTING CONTROL DETAIL

NO SCALE

NOTES:

A IN THE AUTO MODE, THE FIXTURES ON Y CIRCUIT SHALL BE ENERGIZED WHENEVER IT IS DARK AND THE TIME CLOCK CALLS FOR LIGHTING. FIXTURES ON THE X CIRCUIT SHALL BE ON WHENEVER IT IS DARK.

B TIMER SWITCH SHALL TURN FIXTURES ON FOR 4 HOURS.

C IN THE HAND MODE ALL FIXTURES ON (BYPASS CONTROL CIRCUITING.

D COORD THE EXTERIOR LIGHTING FIXTURE LOCATIONS, MOUNTING HEIGHTS, LAYOUT AND CONTROL WITH THE OWNER PRIOR TO INSTALLATION

C1 CONTACTOR
PC PHOTOCELL CONTROL
TC TIME CLOCK
HOA HAND-OFF-AUTO SWITCH
CR CONTROL RELAY

SYMBOLS AND MOUNTING HEIGHTS

MOUNTING HEIGHTS ARE TO BE AS LISTED BELOW UNLESS OTHERWISE INDICATED ON PLAN.

- SWITCHES, 3 WAY, KEYED, TIMER — 48" AFF
- M6 MOTOR SWITCH W/ PILOT LIGHT
- HOA HAND-OFF-AUTO SWITCH
- MC MOMENTARY CONTACT
- S FAN SPEED CONTROL SWITCH
- D DIMMER SWITCH
- DUPLEX RECEPTACLE — NO RECEPT ABOVE BASEBOARD
- T TAMPERPROOF DUPLEX RECEPT — 4" ABOVE BACKSPLASH/SINK
- QUADPLEX RECEPT (2 DUPLEX) — 24" AFF MIN ELSEWHERE
- GFI - GROUND FAULT RECEPT
- SPLIT WIRED DUPLEX RECEPT
- SPECIAL RECEPTACLE
  - D = NEMA 14-30R
  - R = NEMA 14-50R
- W TELEPHONE W=WALL JACK@48"
- DATA / TELEPHONE OUTLET W/ 1 TEL AND 1 DATA JACK IN ONE BOX OR AS NOTED -
  - T* = * OF TELE JACKS
  - D* = * DATA JACKS
- PUSHBUTTON — 48" AFF
- P PHOTOCELL
- DS DOOR SWITCH
- T L THERMOSTAT-LINE VOLTAGE — 54" TO TOP MAX
  - L = LOW VOLTAGE TSTAT
- FLUORESCENT FIXTURES — SEE FIXTURE SCHEDULE
- EMERGENCY LIGHT - BATTERY PACK
- NIGHT LIGHT, UNSWITCHED
- MISC LIGHT FIXTURES DOWNLIGHT, FLOODS AND WALL PACKS
- HPS LIGHT FIXTURES POLE MOUNTED
- INCANDESCENT FIXTURE
- EMERGENCY BATTERY PACK FIXTURE
- REMOTE EMERG LIGHT HEAD
- EXIT LIGHT, W/ EMERG LIGHT HEADS
- GUY
- EXISTING UTILITY POLE & GUY
- NEW WOOD UTILITY POLE & GUY

- DISCONNECT
- COMBINATION MAGNETIC STARTER/DISCONNECT
- M MOTOR
- MOTOR STARTER
- C CONTACTOR
- FL FLOAT SWITCH (PROVIDED BY OTHERS)
- TC TIME CLOCK
- R RELAY
- ELECTRIC BASEBOARD HEATER, SEE SPEC FOR WATTAGES
- ECH ELECTRIC CABINET HEATER, SEE SPEC FOR WATTAGES — 12" AFF
- PANELBOARD - RECESSED
- PANELBOARD - SURFACE — 6'-6" AFF TOP
- T TRANFORMER
- J JUNCTION BOX H = HANDHOLE - CONCRETE SIDEWALK BOX
- C CAMERA FUTURE SECURITY SYSTEM — 7' AFF
- M MOTION SENSOR
- I SMOKE DETECTOR — EQUIP PROVIDED BY FIRE ALARM CONTRACTOR
- H HEAT DETECTOR
- FIRE ALARM CONTROL PANEL (FACP)
- GROUND, NEUTRAL, HOT CONDUCTORS - #12 UNLESS OTHERWISE NOTED. INSTALL EQUIPMENT GROUNDING CONDUCTOR IN EACH BRANCH CIRCUIT. MINIMUM CIRCUITING IS 2#12 W/ 1#12G. BRANCH CIRCUITS CAN BE TYPE MC OR TYPE THHN/THWN RUN IN EMT. 3/4"C MINIMUM HOMERUN SIZE.

  WHERE WIRE SIZE IS SHOWN BY HOMERUN THAT SIZE WIRE SHALL BE USED FOR THE ENTIRE CIRCUIT WITH THE CONDUIT SIZED PER THE WIRE COUNT.

  DASHED EQUIPMENT INDICATES EXISTING OR FUTURE EQUIPMENT. REFER TO DRAWING NOTE.
- — E — — OVERHEAD LINE
  - E = OVHD PRIMARY LINE
  - S = SECONDARY LINE
  - T = TELEPHONE LINE
  - L = PARKING LOT LIGHTING
  - C = SECURITY CAMERA
  - P = POWER (FUTURE GATE)
  - PS = POWER PURSER SHELTER
  - -X = REMOVE LINE
  - -U = UNDERGROUND
- UNDERGROUND CIRCUIT
- OR EXISTING CIRCUIT

ACS	LOCAL TEL CO
AFCI	ARC FAULT CIRCUIT INTERRUPTER
ATS	AUTOMATIC TRANSFER SWITCH
CPP	COMPUTER PATCH PANEL
CTC	COMPUTER TERMINAL CABINET
FACP	FIRE ALARM CONTROL PANEL
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI / GFI	GROUND FAULT CIRCUIT INTERRUPTER
IPEC	LOCAL ELECTRIC CO
LT FLEX	LIQUIDTIGHT FLEXIBLE CONDUIT
NID	NETWORK INTERFACE DEVICE
SCCR	SHORT CIRCUIT CURRENT RATING
TPP	TELEPHONE PATCH PANEL
TTB	TELEPHONE TERMINAL BOARD
WP	WEATHERPROOF
XP	EXPLOSIONPROOF - CLASS I HAZARDOUS LOCATION

PROJECT GENERAL NOTES

A THE PROJECT IS DESIGNED TO THE 2008 NEC AND 2006 IBC, IFC & IMC.

B COORDINATE HEATER INSTALLATION TO AVOID CASEWORK AND FURNITURE. MOUNT DEVICES CLEAR OF THE HEATER PER ELECTRIC HEATER MFR REQUIREMENTS (MIN OF 12" ABOVE AND 6" FROM THE SIDE OF THE HEATERS).

C PRIOR TO INSTALLATION COORDINATE THE LIGHTING, SWITCHES, RECEPTACLES, AND TELEPHONE/DATA OUTLETS LAYOUT WITH THE OWNER.

D REFERENCES TO THE MECHANICAL CONTRACTOR INCLUDES PLUMBING, HVAC AND SHEETMETAL CONTRACTORS.

E IBC OCCUPANCY TYPES -
1ST FLOOR = B,

F KEEP EXISTING FERRY TERMINAL BUILDING OPERATIONAL DURING CONSTRUCTION. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND EQUIPMENT INCLUDING ELECTRICAL AND TELEPHONE SERVICE TO THE BUILDING AFTER THE NEW FERRY TERMINAL IS OPERATIONAL.

G THE ELECTRICAL SET CONSISTS OF 14 SHEETS - E1, E2.1-2.2, E3.1-3.3, E4.1-4.2, E5.1-5.4, E6.1-6.2.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 2/16/11

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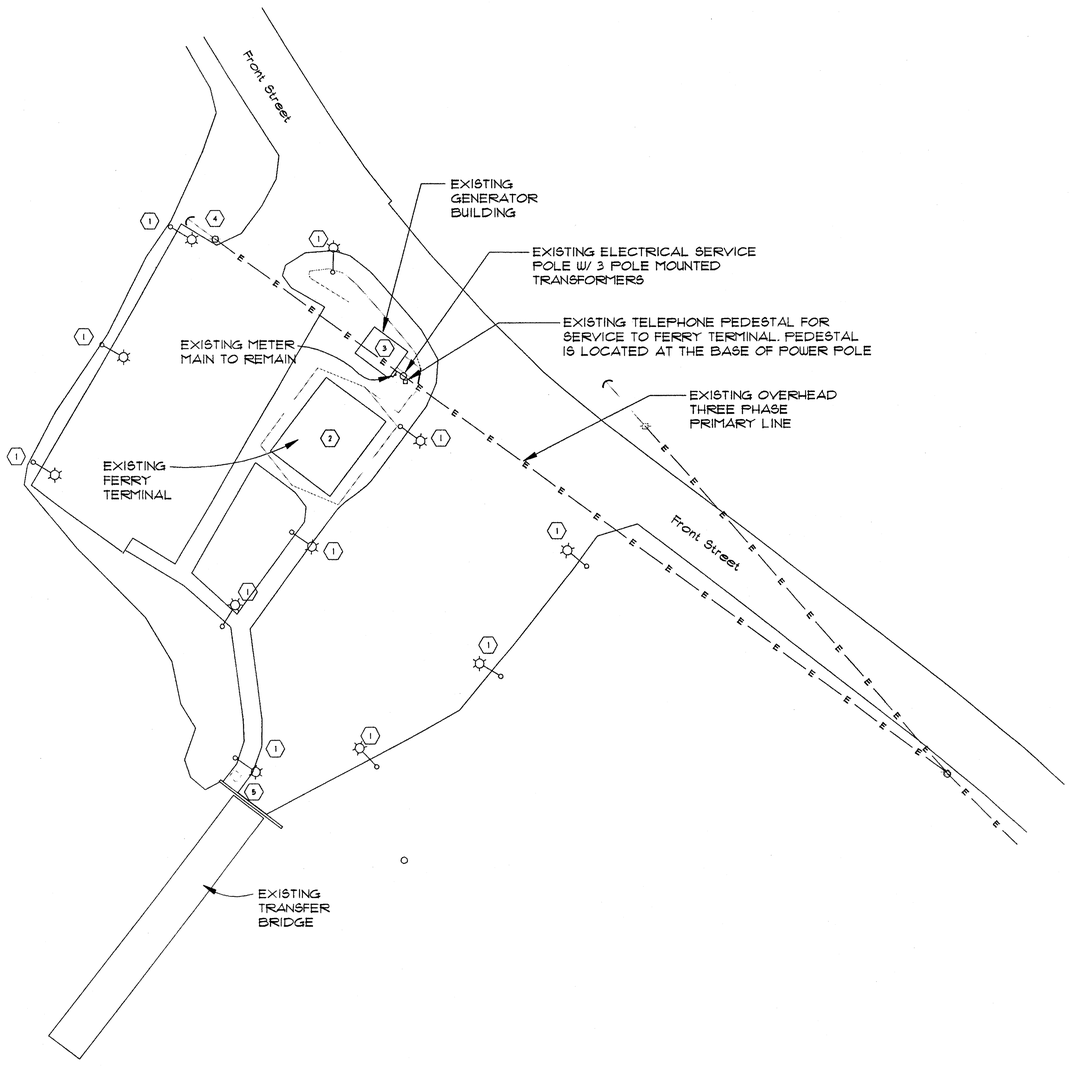
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Hoonah Ferry Terminal Project

ELECTRICAL SYMBOLS & MISC. DETAILS

REVISIONS NO.	DATE	DESCRIPTION
2	10-15-09	DOT UPDATED SET
1	7-22-09	DOT UPDATED SET

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	E1	



1 EXISTING ELECTRICAL SITE PLAN
SCALE: 1" = 60'

N
PLAN NORTH

ELECTRICAL NOTES

1. REMOVE EXISTING PARKING LOT FIXTURE AND ASSOCIATED CIRCUITING. SOME AREAS OF THE PARKING LOT WILL REQUIRE LIGHTING LONGER THAN OTHER AREAS.
2. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND WIRE FROM THE EXISTING FERRY TERMINAL INCLUDING ELECTRICAL SERVICE AND TELEPHONE SERVICE.
3. EXISTING GENERATOR BUILDING AND EXISTING COMBINATION METER MAIN LOCATED ON THE BUILDING SHALL REMAIN. EXISTING GENERATOR, AUTOMATIC TRANSFER SWITCH AND PANEL A ARE LOCATED IN THIS BUILDING. SEE ONE LINE DIAGRAM E4.1 AND 2/E5.1.
4. IPEC TO REMOVE AND REPLACE EXISTING GUY POLE AND GUY. COORDINATE THE SCHEDULING OF THE DEMOLITION OF THE EXISTING POLE AND GUY WITH IPEC AND THE ENGINEER. NEW POLE TO BE INSTALLED BY IPEC SEE E2.2 FOR LOCATION
5. CONFIRM LOCATION OF EXISTING UNDERGROUND CONDUIT RUNS FROM THE EXISTING GENERATOR BLDG THAT FEED EXISTING BRIDGE LIGHTING (EX. PANEL A) AND EXISTING HYRAULICS FED FROM TRANSFORMER, T1. COORDINATE THEIR LOCATIONS WITH PROJECT MANAGER AND RELOCATE CIRCUITS IF REQUIRED BY NEW SITE WORK.

GENERAL NOTES

A COORDINATE WITH ENGINEER THE SCHEDULE AND SEQUENCE FOR THE DEMOLITION OF THE PARKING LOT LIGHTING, EXISTING FERRY TERMINAL BUILDING, AND GUY POLE.

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PE Date 2/14/11

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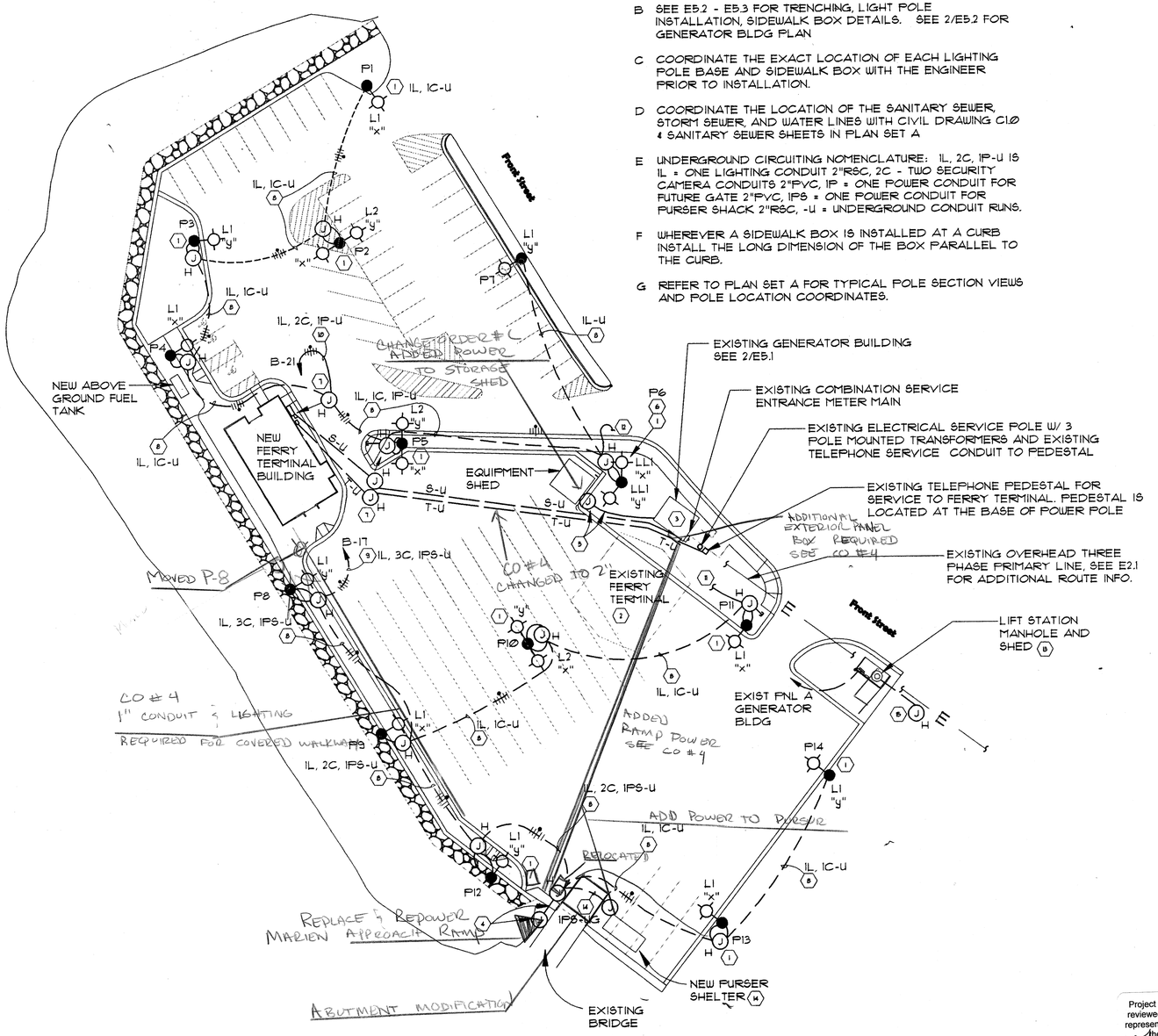
Hoonah Ferry Terminal Project

EXISTING ELECTRICAL SITE PLAN

PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION
2	10-15-09	DOT UPDATED SET
1	7-22-09	DOT UPDATED SET

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67815	2009	E2.1	



1 ELECTRICAL SITE PLAN
SCALE: 1" = 60'

N
PLAN NORTH

GENERAL NOTES

A SEE E2.1 FOR EXISTING SITE WORK. SEE CIVIL DRAWINGS FOR WATER & SEWER LINE LOCATIONS

B SEE E5.2 - E5.3 FOR TRENCHING, LIGHT POLE INSTALLATION, SIDEWALK BOX DETAILS. SEE 2/E5.2 FOR GENERATOR BLDG PLAN

C COORDINATE THE EXACT LOCATION OF EACH LIGHTING POLE BASE AND SIDEWALK BOX WITH THE ENGINEER PRIOR TO INSTALLATION.

D COORDINATE THE LOCATION OF THE SANITARY SEWER, STORM SEWER, AND WATER LINES WITH CIVIL DRAWING C1.0 & SANITARY SEWER SHEETS IN PLAN SET A

E UNDERGROUND CIRCUITING NOMENCLATURE: 1L, 2C, 1P-U IS 1L = ONE LIGHTING CONDUIT 2"RSC, 2C - TWO SECURITY CAMERA CONDUITS 2"PVC, 1P = ONE POWER CONDUIT FOR FUTURE GATE 2"PVC, 1PS = ONE POWER CONDUIT FOR PURSER SHACK 2"RSC, -U = UNDERGROUND CONDUIT RUNS.

F WHEREVER A SIDEWALK BOX IS INSTALLED AT A CURB INSTALL THE LONG DIMENSION OF THE BOX PARALLEL TO THE CURB.

G REFER TO PLAN SET A FOR TYPICAL POLE SECTION VIEWS AND POLE LOCATION COORDINATES.

ELECTRICAL NOTES

(1) LIGHT POLE WITH FUTURE SECURITY CAMERA. INSTALL SIDEWALK BOX WITH (2) 1-1/4"RSC FROM BOX UP INTO THE POLE BASE. ONE CONDUIT IS FOR LIGHTING CIRCUIT. THE OTHER CONDUIT IS FOR FUTURE SECURITY CAMERA WITH PULL STRING FOR FUTURE SECURITY CAMERA. SEE 2/E5.2.

(2) EXISTING FERRY TERMINAL BUILDING TO REMAIN IN OPERATION UNTIL NEW FERRY TERMINAL IS SUBSTANTIALLY COMPLETE. SEE E2.1 FOR DEMOLITION INFO.

(3) EXISTING GENERATOR, AUTOMATIC TRANSFER SWITCH AND PANEL A ARE LOCATED IN THIS BUILDING. SEE ONE LINE DIAGRAM E4.1 AND 2/E5.1.

(4) INSTALL 12X12 NEMA 4 HINGE COVERED JBOX ON TRANSFER BRIDGE WITH 2"RSC AND LT FLEX TO FROM SIDEWALK BOX. LENGTH OF LT FLEX AS REQUIRED TO ACCOMODATE BRIDGE TRAVEL. RACEWAY SYSTEM IS FOR A FUTURE SECURITY CAMERA SYSTEM. CONFIRM JBOX LOCATION AND LT FLEX LENGTH WITH THE OWNER PRIOR TO INSTALLATION. INSTALL PULL STRING, LABEL EACH END OF STRING AND IN EACH SIDEWALK BOX PER 16050.

(5) INSTALL 2"C FROM EXISTING PANEL A TO NEW EQUIPMENT SHED. STUB UP CONDUIT IN A 12"X12" NEMA 4 HINGE COVERED JBOX ON THE SHED AT LOCATION PER OWNER'S DIRECTION. INSTALL PULL STRING AND LABEL EACH END - "EQUIPMENT SHED POWER".

(6) NEW WOOD POLE AND SIDEWALK GUY INSTALLED BY IPEC. POLE IS FOR TENSIONING THE EXISTING TRANSFORMER POLE LOCATED EAST OF THE GENERATOR BUILDING. INSTALL TYPE L1 FIXTURE DAVIT ARMS ON THE WOOD POLE. INSTALL LIGHTING CONDUIT UP THE POLE, TERMINATE W/ A WEATHERHEAD, PULL CONDUCTORS, & MAKE WATERPROOF CONNECTIONS TO TYPE L1 FIXTURES, INSTALL CONDUIT FOR SECURITY CONDUIT 10' UP POLE AND CAP CONDUIT. COORDINATE ALL INSTALLATION REQUIREMENTS WITH IPEC AND ENGINEER.

(7) LOCATE SIDEWALK BOX IN CURBED IN AREA.

(8) CONDUIT QUANTITIES AS INDICATED. L = 2"RSC WITH #8 CONDUCTORS FOR PARKING LOT LIGHTING CIRCUIT. C = 2"PVC W/PULL STRING FOR FUTURE SECURITY CAMERA SYSTEM. SEE GENERAL NOTE E.

(9) 2"RSC WITH LIGHTING CIRCUIT TO PANEL B VIA LIGHTING CONTACTORS IN STORAGE ROOM. 2"PVC QTY AS INDICATED TO FUTURE SECURITY CAMEMRA TO SECURITY RACK LOCATION IN STORAGE ROOM. 2"RSC W/PULL STRING FOR PURSER SHELTER POWER - STUB UP TO PANEL C. SEE 1/E1 AND 1/E5.1.

(10) 2"RSC WITH LIGHTING CIRCUIT TO PANEL B VIA LIGHTING CONTACTORS IN STORAGE ROOM. 2"PVC QTY AS INDICATED TO FUTURE SECURITY CAMEMRA TO SECURITY RACK LOCATION IN STORAGE ROOM. 2"PVC FOR FUTURE GATE STUB UP IN STORAGE ROOM. SEE 1/E1 AND 1/E5.1.

(11) 2"PVC FOR FUTURE GATE TO SIDEWALK BOX FOR POLE P6. SEE 1/E5.3

(12) 2"PVC FOR FUTURE GATE TO SIDEWALK BOX FOR POLE P11. SEE 1/E5.3.

(13) LIFT STATION AND SHED. INSTALL LIGHTING, RECEPT, LIFT STATION PUMPS & CONTROL PANEL, HEAT TAPE, AND BREAKOUT BOXES. THE LIFT STATION MANHOLE IS A CLASS 1 HAZARDOUS LOCATION. SEE E4.1 & E5.4 FOR CIRCUITING INFO.

(14) INSTALL 2"C FROM PANEL C TO NEW PURSER SHELTER. STUB UP CONDUIT IN A 12"X12" NEMA 4 HINGE COVERED JBOX ON THE SHELTER AT LOCATION PER ENGINEER'S DIRECTION. INSTALL PULL STRING - LABEL EACH END OF STRING AND IN EACH SIDEWALK BOX- "PURSER SHELTER POWER". COORDINATE UNDERGROUND ROUTE WITH THE ENGINEER.

(15) SEWER LINE W/ HEAT TAPE. SIDEWALK BOX WITH END OF THE HEAT TAPE RUN. HEAT TAPE PROVIDED BY OTHERS. INSTALL TAPE, SEE E5.4 COORDINATE LOCATION OF BOX WITH ENGINEER.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Date 2/16/10

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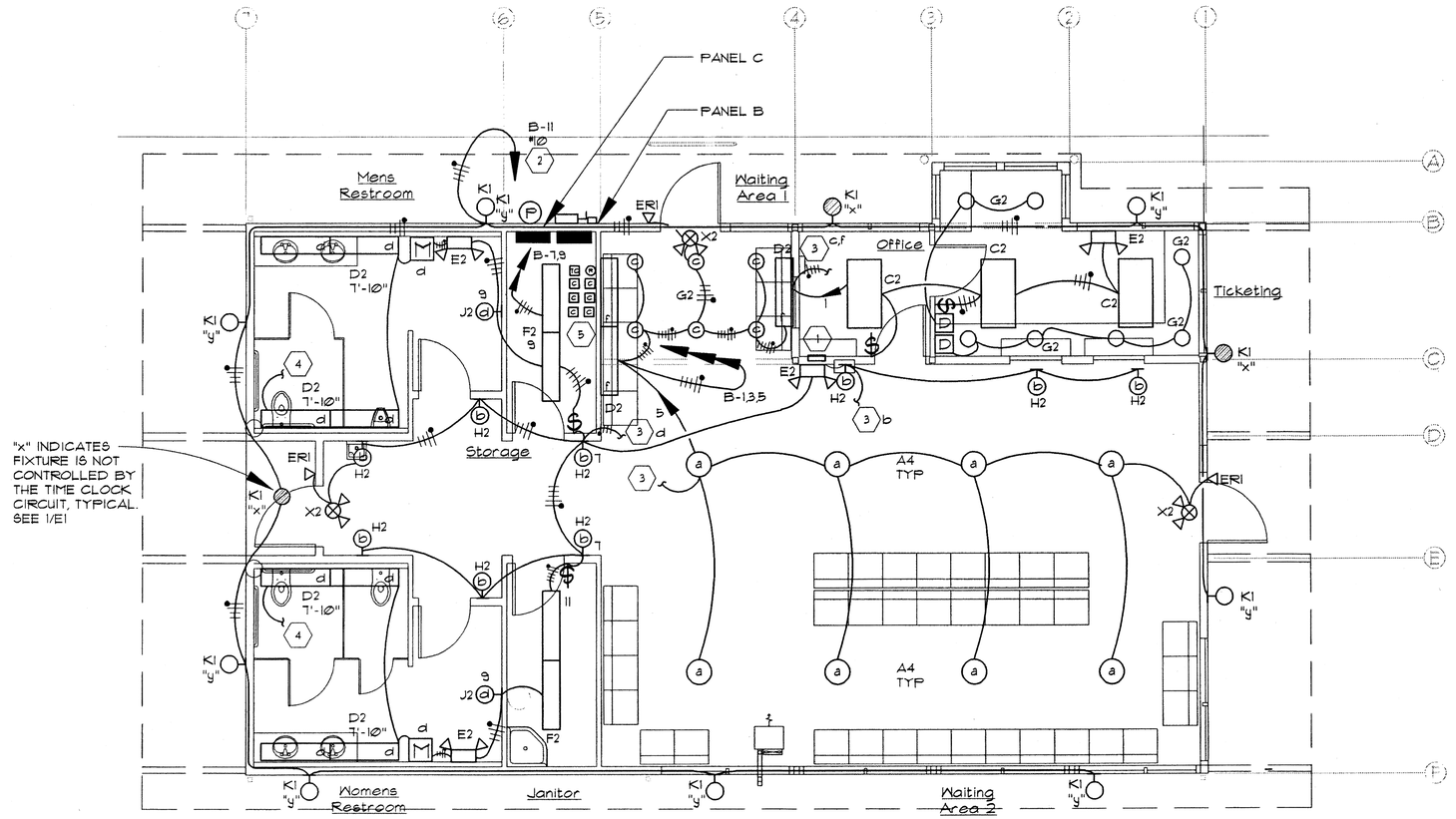
Hoonah Ferry Terminal Project

NEW ELECTRICAL SITE PLAN

PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION
2	10-15-09	DOT UPDATED SET
1	7-22-09	DOT UPDATED SET

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	E2.2	



1 FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1' - 0"

N

PLAN NORTH

ELECTRICAL NOTES:

1. LIGHTING CONTROL STATION. MOUNT SWITCHES FOR LIGHT FIXTURES IN THE PUBLIC AREAS INCLUDING WAITING AREAS, ENTRIES, AND BATHROOMS AND SWITCHES FOR CIRC FAN AND TOILET EXH FANS. SEE 1/E6.2
2. HOMERUN VIA LIGHTING CONTACTOR IN STORAGE ROOM. SEE 1/E1
3. SWITCH CIRCUITING TO LIGHTING CONTROL PANEL IN TICKETING.
4. CONNECT TO EXH FAN IN BATHROOM. SEE E3.2
5. LIGHTING CONTROLS. SEE 1/E1.1 & 1/E5.1

GENERAL NOTES:

A SEE E6.1 & E6.2 FOR PANELBOARD SCHEDULES

B EXTERIOR WALL HAS STEEL COLUMNS. SEE STRUCTURAL DRAWINGS AND COORDINATE RACEWAY INSTALLATION.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE J. Berg Date 2/16/11

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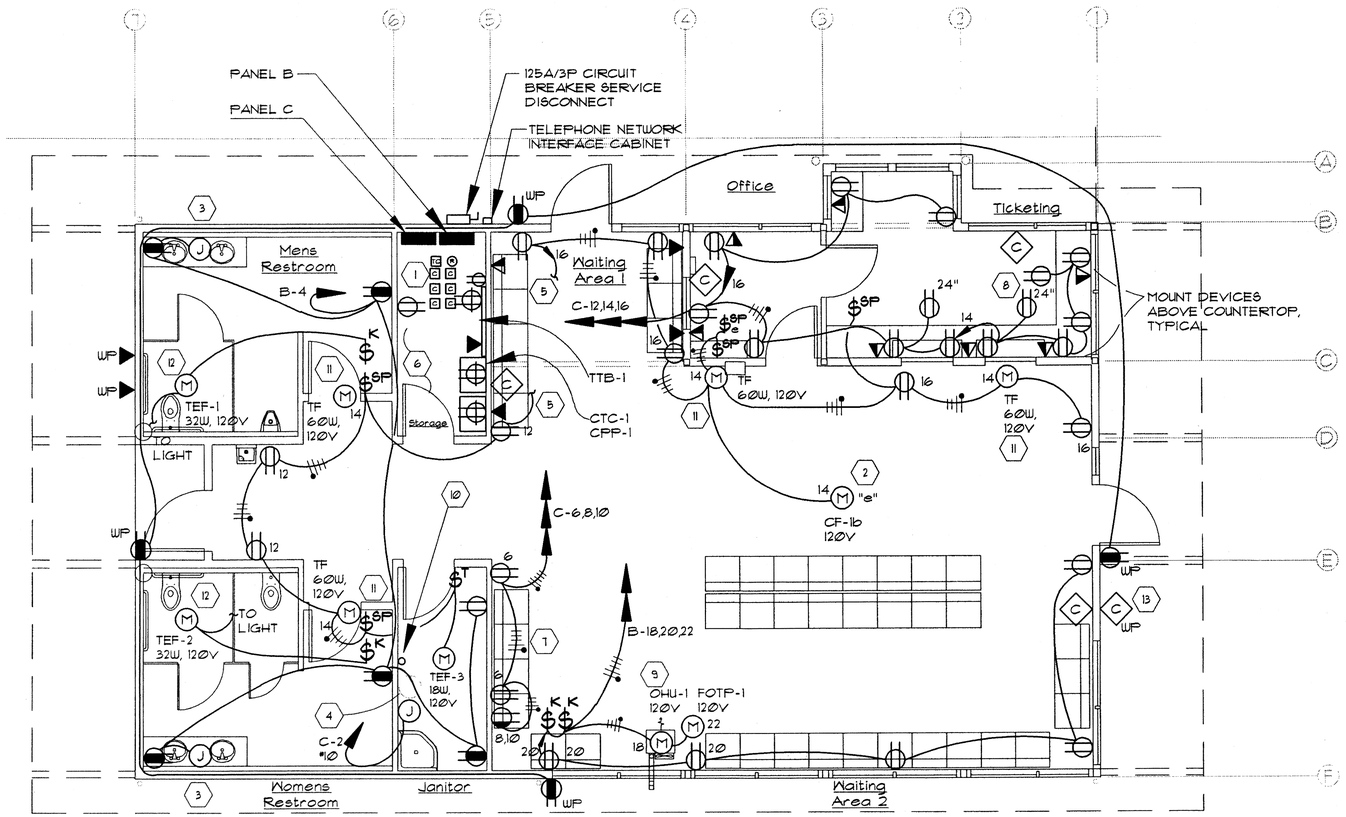
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Hoonah Ferry Terminal Project

ELECTRICAL LIGHTING PLAN

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1	7-22-09	DOT UPDATED SET

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	E3.1	



1 FIRST FLOOR POWER & SYSTEMS PLAN

SCALE: 1/8" = 1' - 0"

N

PLAN NORTH

ELECTRICAL NOTES:

1. TIME CLOCK AND CONTACTORS FOR EXTERIOR BUILDING AND PARKING LOT LIGHTING. SEE 1/E1
2. FAN CONTROL SPEED SWITCH "S" LOCATED IN THE LIGHTING CONTROL SWITCH PANEL IN THE OFFICE. SEE E3.1
3. INSTALL JBOX FOR 120V CONNECTION TO LOW VOLTAGE TRANSFORMER FOR LAV FAUCET CONTROL. TRANSFORMER IS PROVIDED BY MECH. COORDINATE W/ MECH AND MAKE COMPLETE CONNECTIONS.
4. MAKE COMPLETE CONNECTIONS TO WATER HEATER - 4500W, 208V - PROVIDED BY MECHANICAL. COORDINATE LOCATION OF WATER HEATER WITH OWNER AND MECH.
5. SEE 1/E5.1 FOR CIRCUITING
6. FOR EQUIPMENT LAYOUT AND CIRCUITING SEE STORAGE ROOM PLAN 2/E5.1
7. COORDINATE LOCATION OF VENDING MACHINE RECEPTACLES WITH THE OWNER PRIOR TO INSTALLATION. PROVIDE 3 RECEPTACLES WITH 3 CIRCUITS.
8. INSTALL RECEPTACLES BELOW COUNTERTOP, TYP OF 3
9. MAKE CONNECTIONS TO OIL FIRED HEATER AND FUEL OIL TRANSFER PUMP. SEE MECH.
10. WATER SERVICE METAL PIPE. MAKE CONNECTION TO GROUNDING ELECTRODE SYSTEM, SEE E4.1
11. SPEED SWITCH IS FOR THE TRANSFER FAN, TF. SWITCH IS PROVIDED BY MECHANICAL. MAKE COMPLETE CONNECTIONS.
12. TOILET EXHAUST FAN, TEF. INSTALL SWITCH AND MAKE CONNECTIONS TO THE MOTION SENSOR CONTROLLED LIGHTING CIRCUIT IN THE BATHROOM, SEE E3.1.
13. COORDINATE MOUNTING HEIGHT OF CAMERA BACKBOX WITH THE ENGINEER

GENERAL NOTES:

A SEE E4.2 FOR TTB-1 TELEPHONE AND CPP-1 COMPUTER WIRING INFORMATION

B SEE M-1 MECHANICAL DRAWING FOR MOTOR NAMES & INFO.

C SEE E6.1 & E6.2 FOR PANELBOARD SCHEDULES.

D EXTERIOR WALL HAS STEEL COLUMNS. SEE STRUCTURAL DRAWINGS AND COORDINATE RACEWAY INSTALLATION.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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DRAWN BY: KCN

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KEITH NELSON
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6-5-09
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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Date 2/14/11

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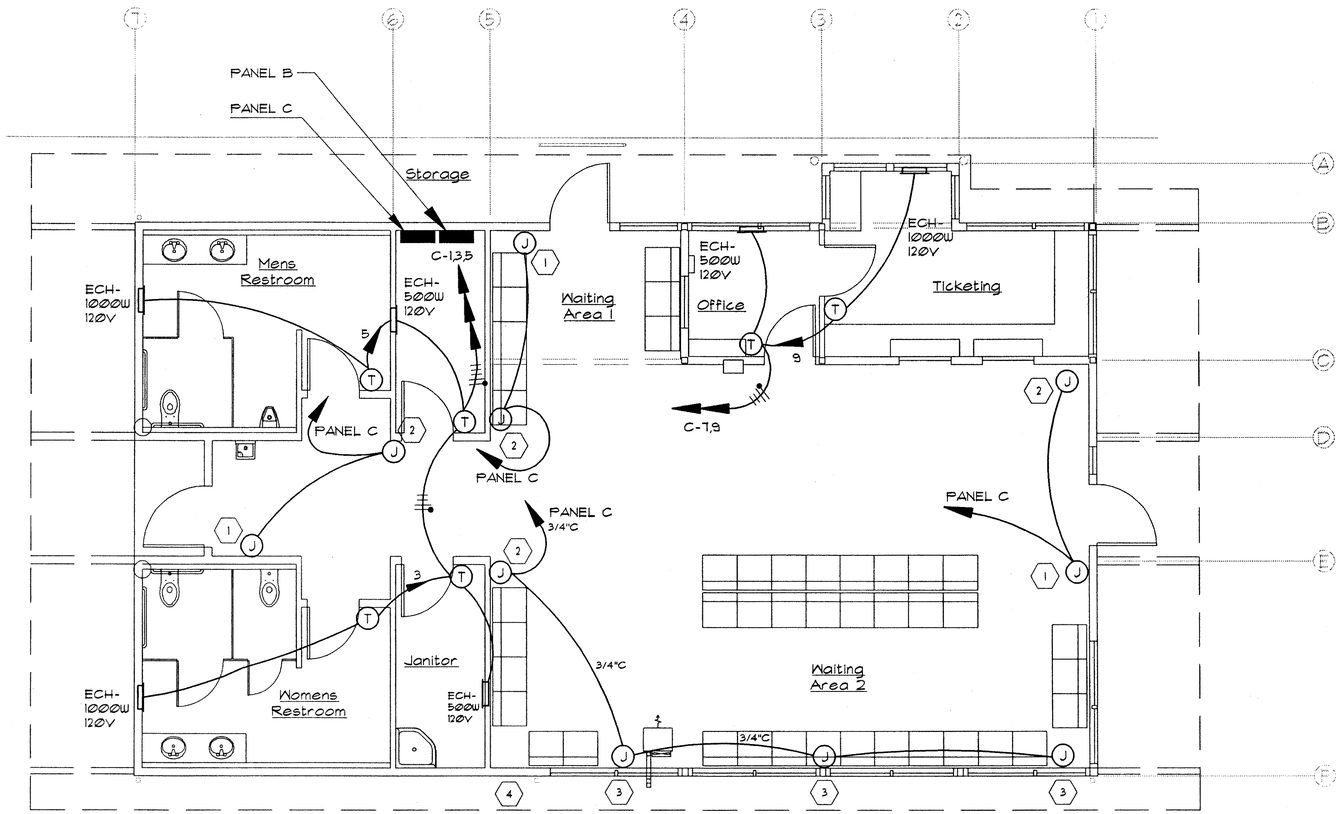
Hoonah Ferry Terminal Project

ELECTRICAL POWER & SYSTEMS PLAN

PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION
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PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	E3.2	



1 FIRST FLOOR ELECTRIC HEATING PLAN

SCALE: 1/8" = 1' - 0"

N

PLAN NORTH

ELECTRICAL NOTES:

1. INSTALL JBOX W/ BLANK STAINLESS STEEL COVERPLATE AT 12" FOR FUTURE ELECTRIC CABINET HEATER. RUN 1/2"C FROM BOX TO PANEL B WITH PULL STRING. LABEL EACH END OF PULL STRING "FUTURE ELECTRIC HEAT - ROOM NAME & LOCATION". INSTALL LABEL ON COVERPLATE "FUTURE ELECTRIC HEAT"
2. INSTALL JBOX W/ BLANK STAINLESS STEEL COVERPLATE AT 60" FOR FUTURE ELECTRIC THERMOSTAT. RUN 1/2"C FROM BOX TO PANEL C WITH PULL STRING. LABEL EACH END OF PULL STRING "FUTURE TSTAT - ROOM NAME & LOCATION". INSTALL LABEL ON COVERPLATE "FUTURE TSTAT"
3. INSTALL JBOX W/ BLANK STAINLESS STEEL COVERPLATE AT 6" FOR FUTURE ELECTRIC BASEBOARD HEAT. RUN 1/2"C FROM BOX TO PANEL B WITH PULL STRING. LABEL EACH END OF PULL STRING "FUTURE ELECTRIC HEAT - ROOM NAME & LOCATION". INSTALL LABEL ON COVERPLATE "FUTURE ELECTRIC HEAT"

GENERAL NOTES:

A SEE E6.1 & E6.2 FOR PANELBOARD SCHEDULES

B EXTERIOR WALL HAS STEEL COLUMNS. SEE STRUCTURAL DRAWINGS AND COORDINATE RACEWAY INSTALLATION.

C INSTALL LOCKABLE PLASTIC THERMOSTAT COVER OVER TSTATS IN BATHROOMS. MATCH COVER USED BY MECHANICAL SO ALL COVERS ARE THE SAME.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 7/14/11

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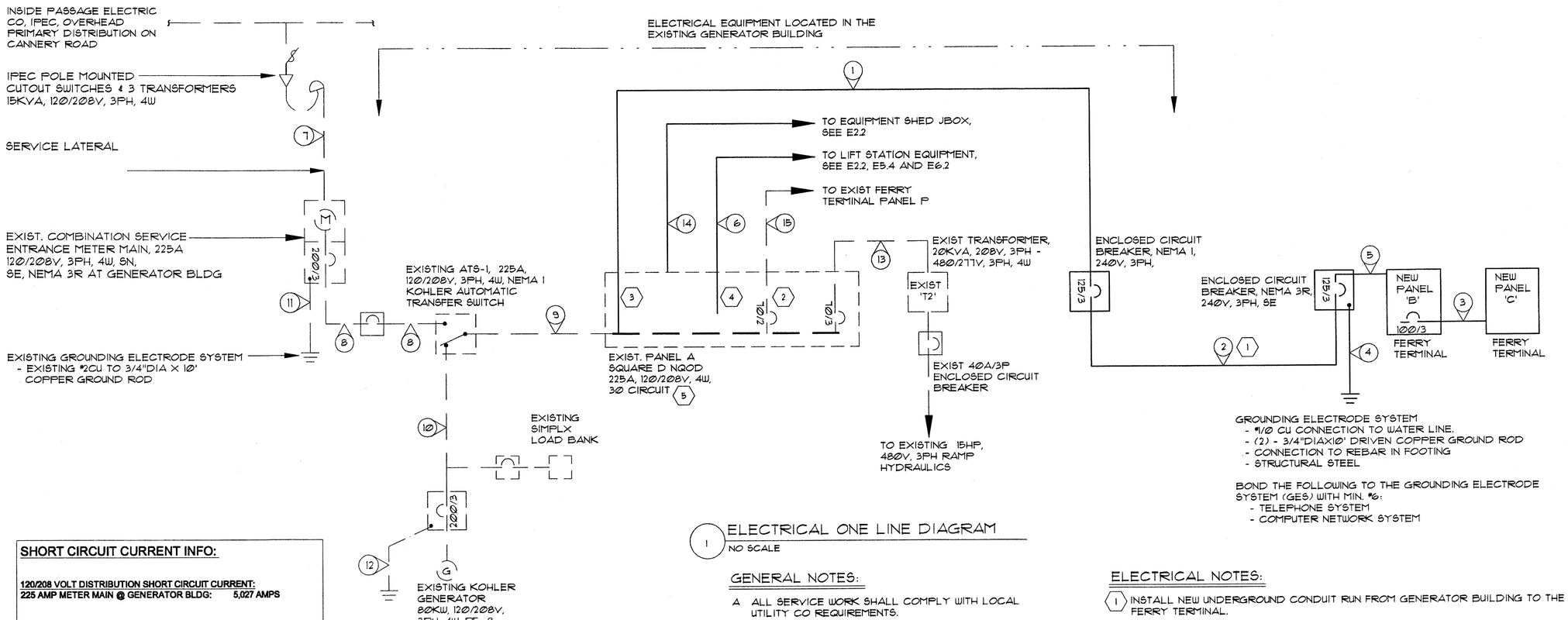
Hoonah Ferry Terminal Project

ELECTRICAL HEATING PLAN

PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION
2	10-15-09	DOT UPDATED SET
1	7-22-09	DOT UPDATED SET

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	E3.3	



1 ELECTRICAL ONE LINE DIAGRAM
NO SCALE

SHORT CIRCUIT CURRENT INFO:

120/208 VOLT DISTRIBUTION SHORT CIRCUIT CURRENT:
225 AMP METER MAIN @ GENERATOR BLDG: 5,027 AMPS

STANDARD 10,000 AIC RATING IS SUITABLE FOR ALL DISTRIBUTION EQUIPMENT.

PRELIMINARY ARC FLASH ANALYSIS INFO:

120/208V VOLT DISTRIBUTION SYSTEM EQUIPMENT:

FLASH PROTECTION BOUNDARY	4' - 0"
LIMITED APPROACH BOUNDARY	3' - 6"
RESTRICTED APPROACH BOUNDARY	1' - 0"
PROHIBITED APPROACH BOUNDARY	0" - 1"
SHOCK HAZARD	208VAC

FEEDER NUMBER	CONDUIT AND WIRE SIZE
1	2"C W/ 4#3/0, 1#4G
2	3"C W/ 4#3/0, 1#4G
3	1-1/4"C W/ 4#2, 1#8G
4	1#4 BARE CU GEC
5	2"C W/ 4#3/0, 1#4P G
6	2"C W/ 4#8, 6#10, 1#8G
7	EXIST 2-1/2"C W/ 4#4/0
8	EXIST 2-1/2"C W/ 4#4/0
9	EXIST 2-1/2"C W/ 4#4/0
10	EXIST 2-1/2"C W/ 4#4/0
11	EXIST 1#2 BARE CU GEC
12	EXIST 1#2 BARE CU - FRAME ONLY
13	EXIST 1-1/2"C w/ 3#4, 1#3
14	2"C W/ PULL STRING
15	EXIST 2"C W/ 3#4

EXISTING FEEDER SIZES ARE BASED ON INFO FROM AS-BUILT DRAWING

NEC LOAD CALCULATION - NEW PANEL B

LOAD TYPE	VA
LIGHTING @1.25	12,634
MOTORS	542
RECEPT	7,380
APPLIANCES	2,200
HEAT INCLUDING HOT WATER	9,000
LARGEST MOTOR @ 0.25	38
TOTAL CONNECTED LOAD	31,794
	88 AMPS

THE 225A, 120/208V, 3PH, 4W PANEL W/ 125 A FEEDER WILL HANDLE THE CONNECTED LOAD

NEC LOAD CALCULATION - SERVICE @ EXISTING PANEL A

LOAD TYPE	VA
LIGHTING @1.25	15,259
MOTORS	19,907
RECEPT	8,480
APPLIANCES	2,650
HEAT INCLUDING HOT WATER	12,500
HEAT TAPE	188
LARGEST MOTOR @ 0.25	4,161
TOTAL CONNECTED LOAD	63,125
	175 AMPS

THE EXISTING 200A, 120/208V, 3PH, 4W PANEL WILL HANDLE THE CONNECTED SERVICE LOAD

GENERAL NOTES:

A ALL SERVICE WORK SHALL COMPLY WITH LOCAL UTILITY CO REQUIREMENTS.

B PROVIDE NEW TYPED CIRCUIT DIRECTORY FOR NEW PANELBOARDS.

C TAPE THE OUTLINE OF THE NEC 110.16 CLEARANCES ON THE FLOOR IN FRONT OF EACH PANELBOARD.

D INFORMATION IN THE PRELIMINARY ONE LINE DIAGRAM IS BASED ON AS-BUILT INFORMATION. THE ONE LINE DIAGRAM WILL BE UPDATED IN THE NEXT SUBMITTAL PHASE WITH NEW INFORMATION GATHERED DURING A SITE VISIT.

ELECTRICAL NOTES:

1. INSTALL NEW UNDERGROUND CONDUIT RUN FROM GENERATOR BUILDING TO THE NEW FERRY TERMINAL.
2. REMOVE EXISTING 70A/2P CIRCUIT BREAKER AND FEEDER TO EXISTING PANEL P IN EXISTING FERRY TERMINAL BUILDING.
3. INSTALL DOUBLE LUGS ON PANEL A AND NEW CIRCUIT BREAKER IN THE GENERATOR BLDG FOR NEW FERRY TERMINAL FEEDER. INSTALL NEW CIRCUIT BREAKER TO COMPLY W/ NEC 240.21 25 FOOT TAP RULE.
4. REARRANGE EXISTING BREAKERS AND INSTALL NEW CIRCUIT BREAKERS. SEE REVISED PANEL A SCHEDULE ON E6.2. CONNECT CIRCUITS FOR LIFT STATION PUMPS, HEAT TAPE, RECEPT AND LIGHT FIXTURES. CONFIRM PUMP AND CONDUCTOR SIZES W/ ENGINEER PRIOR TO INSTALLATION.
5. SEE E6.2 FOR EXISTING AND REVISED LAYOUT FOR PANEL A CIRCUIT BREAKERS.
6. AT SUBSTANTIAL COMPLETION INSPECTION, RUN THE NEW FERRY TERMINAL ON GENERATOR POWER FOR ONE HOUR. AFTER TEST, TRANSFER SYSTEM BACK TO UTILITY POWER.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/16/11

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PLOT:

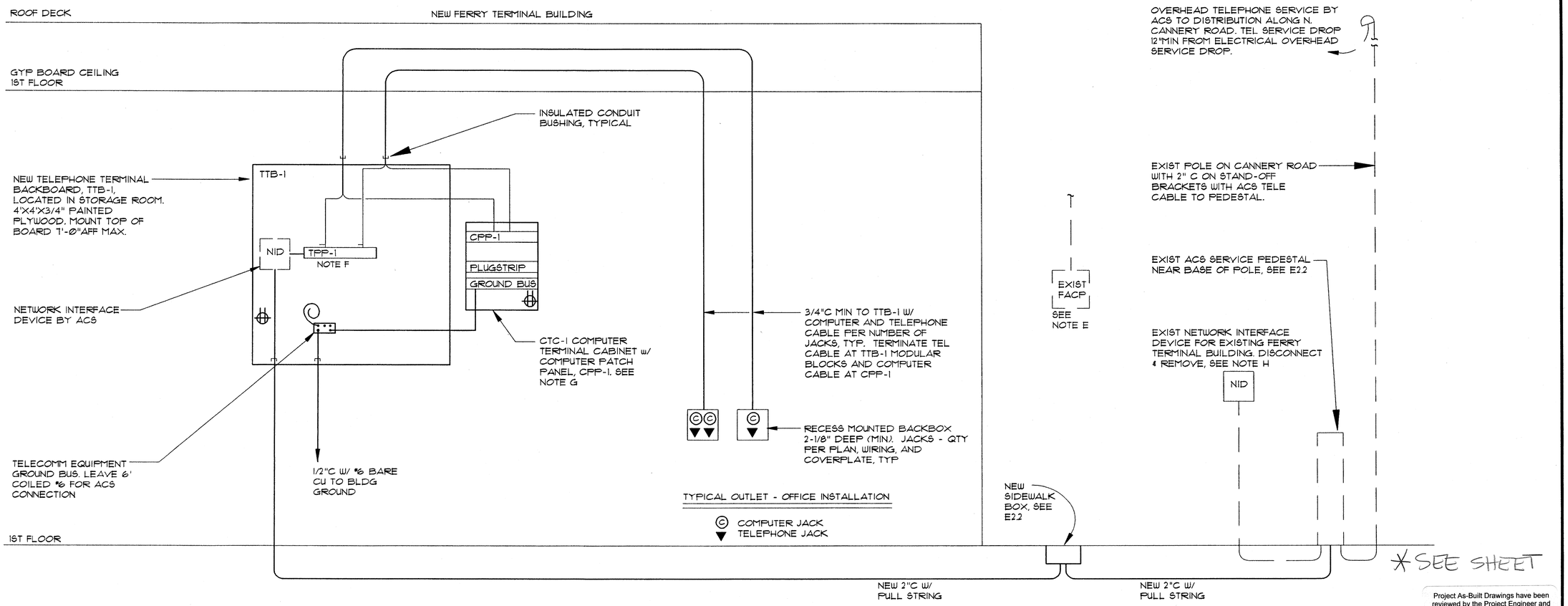
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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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Hoonah Ferry Terminal Project
ELECTRICAL ONE LINE DIAGRAM

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1 TELECOMMUNICATION SYSTEM ONE LINE DIAGRAM

NO SCALE

TELEPHONE SYSTEM WIRING
COMPUTER NETWORK SYSTEM

GENERAL NOTES:

A THIS DIAGRAM DOES NOT SHOW ALL DEVICES. THE INTENT OF THIS DETAIL IS TO SHOW THE TELECOMMUNICATION SYSTEM INSTALLATION METHODS. COORDINATE QUANTITIES AND LOCATIONS W/ THE OWNER. SEE SPEC 16740 & 16780 FOR ADDITIONAL INFORMATION.

B SYSTEM SHALL BE COMPLETE WITH OUTLETS, CABLING, BACKBOXES, CONDUIT, CABLE SUPPORT SYSTEM, TERMINATIONS AND TESTING. CONDUIT SHALL BE RUN FROM THE OUTLET BACKBOX TO THEIR TERMINATION POINT IN THE STORAGE ROOM. ALL CABLE IN THE MECH ROOM SHALL BE SUPPORTED BY J-HOOKS, CABLE SLINGS OR CABLE TRAY.

C COORDINATE THE INSTALLATION REQUIREMENTS WITH THE ACS AND AMHS IT DEPARTMENT.

D FIRE CAULK AROUND ALL CONDUIT PENETRATIONS THRU THE GYP BOARD.

E EXISTING FIRE ALARM PANEL IN GENERATOR BUILDING. CONFIRM THE TYPE OF EXISTING TELEPHONE LINE CONNECTION TO THE PANEL. SEE 16720

F INSTALL TELEPHONE PATCH PANEL TPP-1 AND LAND TELEPHONE WIRING, JUMPER AS REQUIRED. AT TIME OF INSTALLATION CONFIRM W/ ENGINEER IF TPP-1 CAN BE INSTALLED IN CTC-1

G CTC-1 COMPUTER TERMINAL CABINET W/ COMPUTER PATCH PANEL, CPP-1. TERMINATE WIRING FOR COMPUTER NETWORK OUTLETS AT THE COMPUTER PATCH PANEL CPP-1.

H DISCONNECT AND REMOVE EXISTING TELEPHONE SERVICE CONDUIT, CABLE AND NETWORK INTERFACE DEVICE TO THE EXISTING FERRY TERMINAL AFTER THE NEW FERRY TERMINAL BUILDING TELEPHONE SERVICE IS OPERATIONAL. COORDINATE WORK WITH ACS AND ENGINEER

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PE [signature] Date 8/16/11

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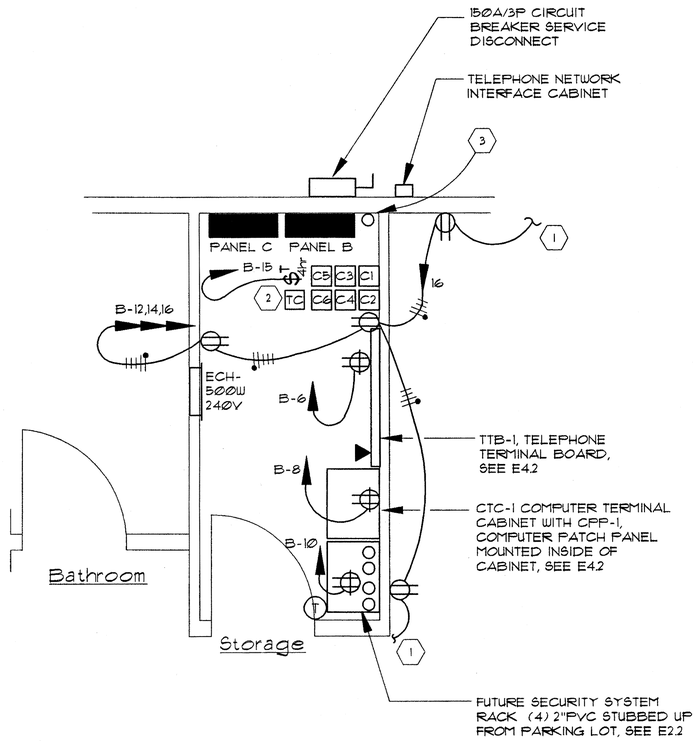
Hoonah Ferry Terminal Project

ELECTRICAL TELECOMM ONE LINE DIAGRAM

PATH:
PLOT:

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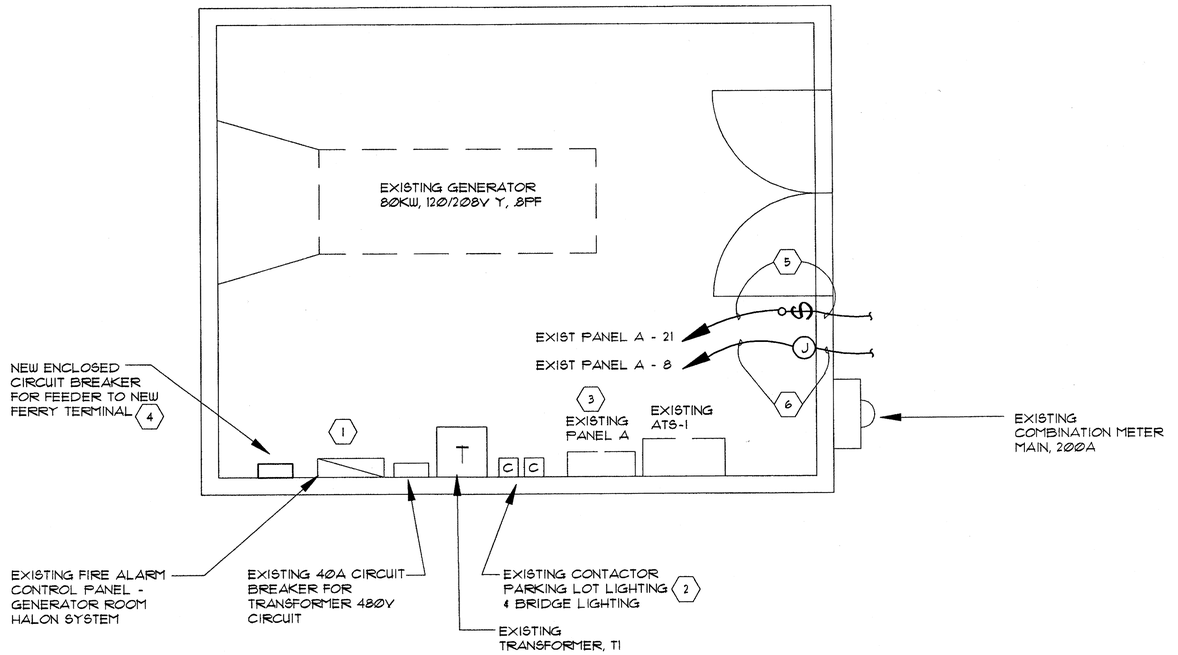


1 STORAGE ROOM PLAN

SCALE: 1/4" = 1' - 0"

DETAIL NOTES:

1. SEE E3.2 FOR CONTINUATION OF CIRCUITING
2. SEE 1/E1 FOR LIGHTING CONTROL DIAGRAM
3. 2"C FOR FUTURE GATE. SEE E2.2.



2 GENERATOR BUILDING POWER PLAN

SCALE: 1/4" = 1' - 0"

DETAIL NOTES:

1. EXISTING PYROTRONICS HALON PANEL CP-2HR. PERFORM NFPA 72 TEST ON PANEL PER SPEC 16720.
2. DISCONNECT AND REMOVE EXISTING PARKING LOT LIGHTING CONTACTORS AND ALL ASSOCIATED CIRCUITING. BRIDGE LIGHTING CONTROLS AND CIRCUITING SHALL REMAIN
3. EXISTING PANEL A REMAINS. REMOVE, RELOCATE EXISTING CIRCUIT BREAKERS AND INSTALL NEW CIRCUIT BREAKERS AS NOTED IN THE REVISED PANEL A SCHEDULE ON E6.2. TURN OVER SPARE CIRCUIT BREAKERS TO ENGINEER.
4. INSTALL CIRCUIT BREAKER TO COMPLY WITH NEC 240.21 25 FOOT TAP RULE.
5. 1"RGC W/ 2#10, 1#10G TO HEAT TAPE POWER CONNECTION BOX LOCATED NEAR LIFT STATION ON E2.2. INSTALL NEW GROUND FAULT CIRCUIT INTERRUPTER BREAKER IN EXISTING PANEL A. INSTALL CONDUIT SEAL-OFF AT LIFT STATION. COORDINATE EQUIPMENT AND SEAL-OFF LOCATION WITH THE PROJECT MANAGER.
6. 1"RGC W/ 4#10, 1#10 G TO LIFT STATION CONTROL PANEL LOCATED NEAR LIFT STATION ON E2.2. INSTALL NEW CIRCUIT BREAKER IN PANEL A. INSTALL CONDUIT SEAL-OFF AT LIFT STATION. COORDINATE EQUIPMENT AND SEAL-OFF LOCATION WITH THE PROJECT MANAGER.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 4/16/11

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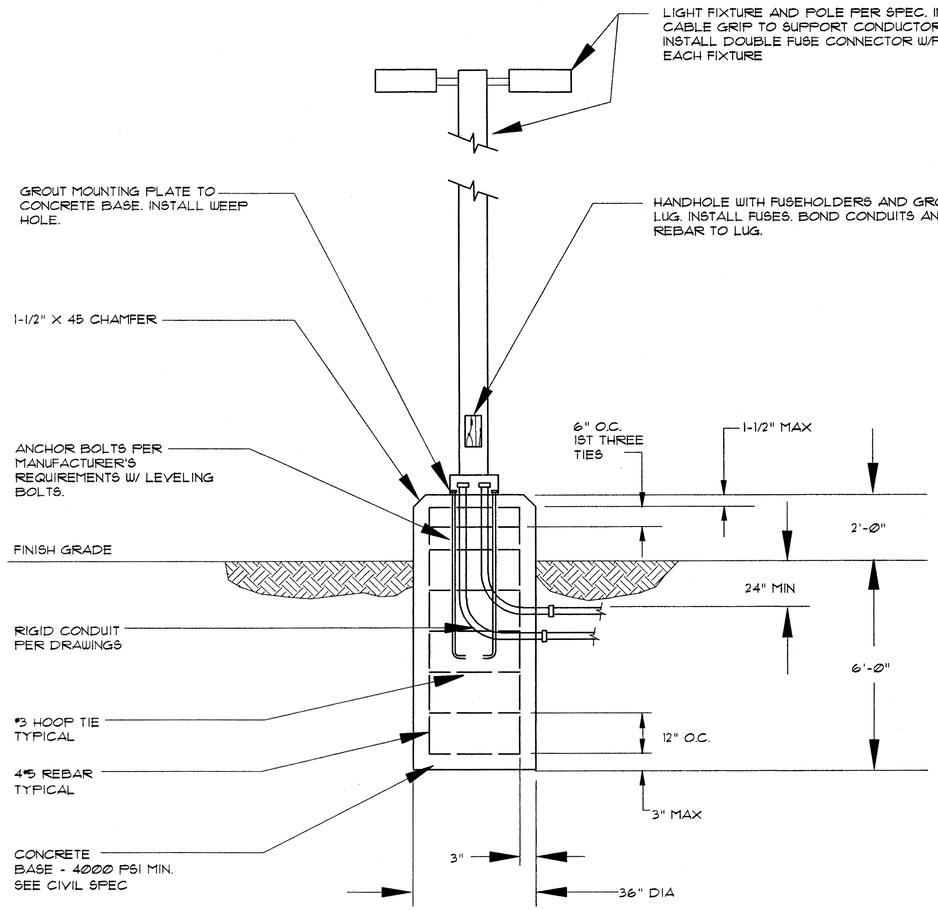
Hoonah Ferry Terminal Project

MISC. ELECTRICAL DETAILS

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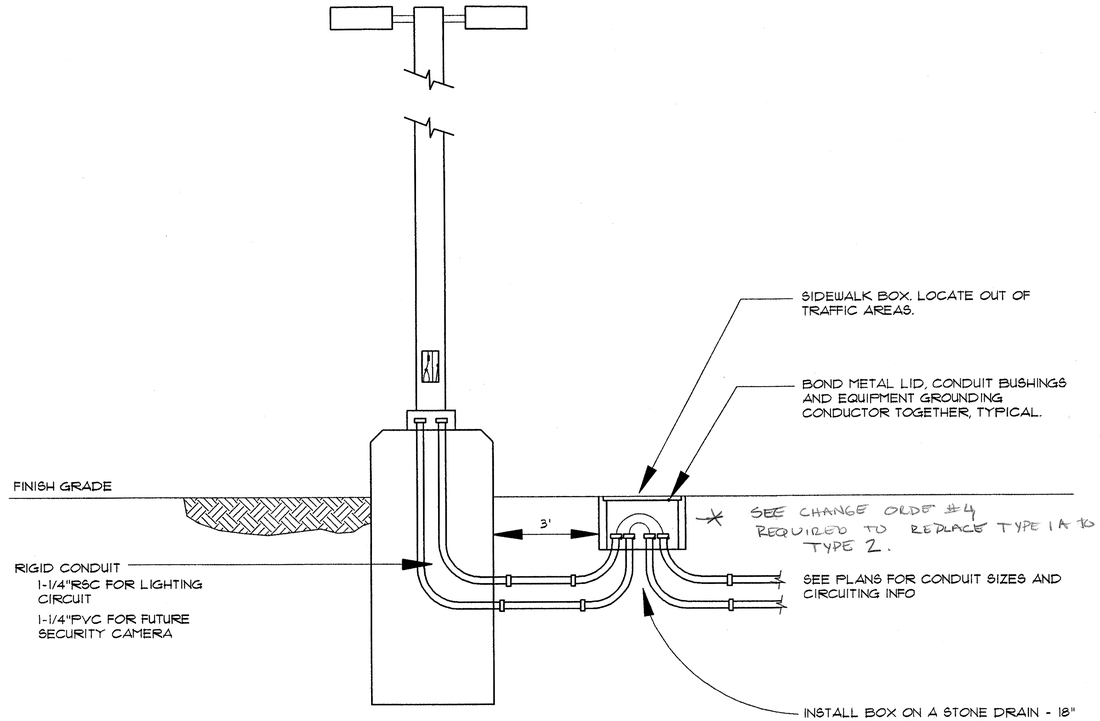
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	E5.1	



1 LIGHT POLE STANDARD DETAIL

NO SCALE

A. ALSO SEE DETAIL 2/E5.2 FOR ADDITIONAL INFO.



THIS DETAL SHOWS THE LAST POLE ON A LIGHTING CIRCUIT. SEE E2.2 FOR QUANTITY AND SIZES OF CONDUIT RUNS AT OTHER LIGHT POLES. ALSO SEE 1/E5.2 FOR POLE BASE INFO.

2 LIGHT POLE INSTALLATION DETAIL

NO SCALE

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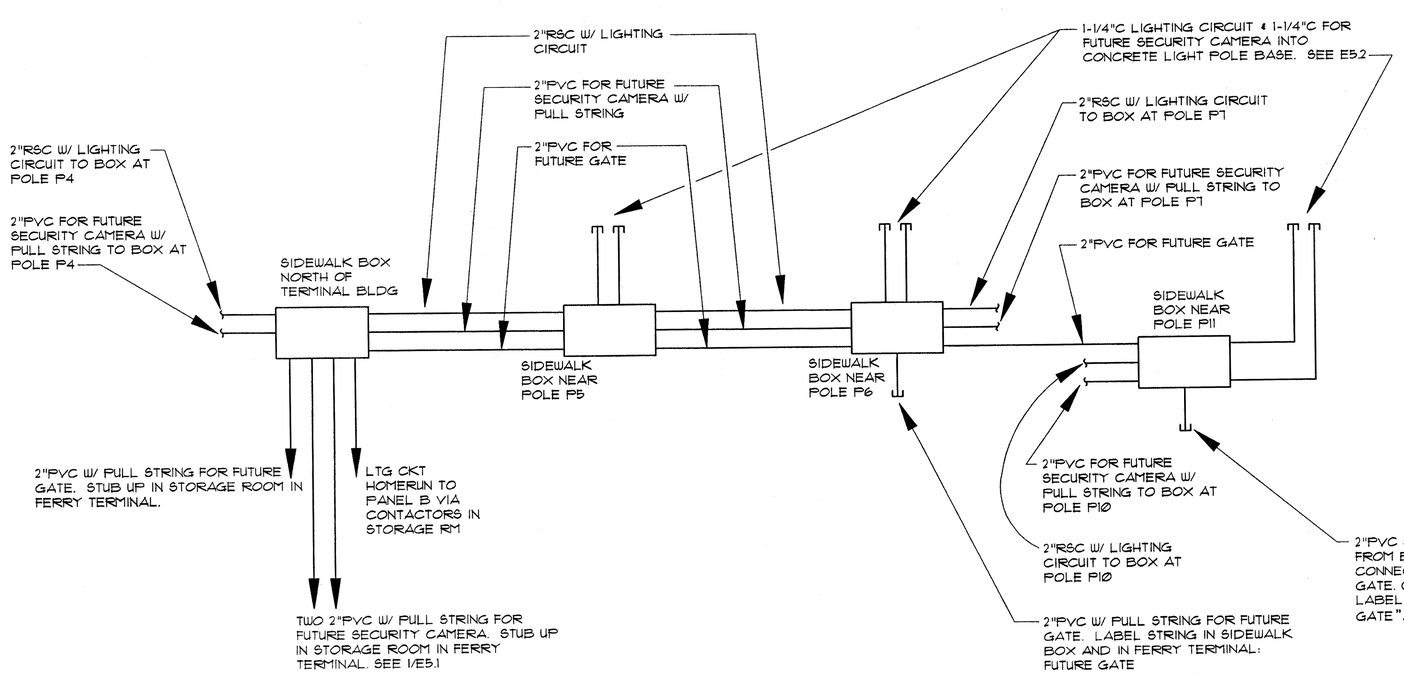
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1 SIDEWALLK BOX CIRCUITING PLAN

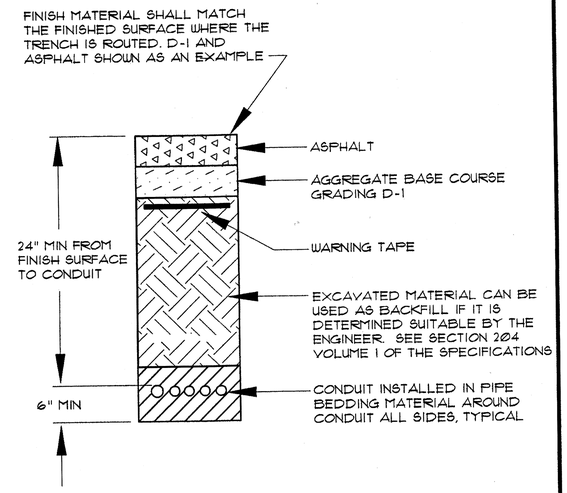
NO SCALE

GENERAL NOTES:

A LABEL ALL PULL STRINGS WITH THE CONDUIT SYSTEM AND LOCATION OF THE OTHER END OF THE STRING. FOR EXAMPLE "FUTURE GATE - FROM SIDEWALK BOX AT POLE P5 TO SIDEWALK BOX AT POLE P10".

B SEE E2.2 SITE PLAN FOR LOCATIONS AND ADDITIONAL INFO

C THE OTHER PARKING LOT RACEWAY INSTALLATIONS ARE SIMILAR TO THE METHODS SHOWN IN THIS DETAIL.



2 TRENCH DETAIL

NO SCALE

GENERAL NOTES:

A. SEE CIVIL FOR SPECIFICATIONS ON TYPES OF MATERIALS. COORDINATE INSTALLATION WITH ENGINEER

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PE _____ Date 2/16/11

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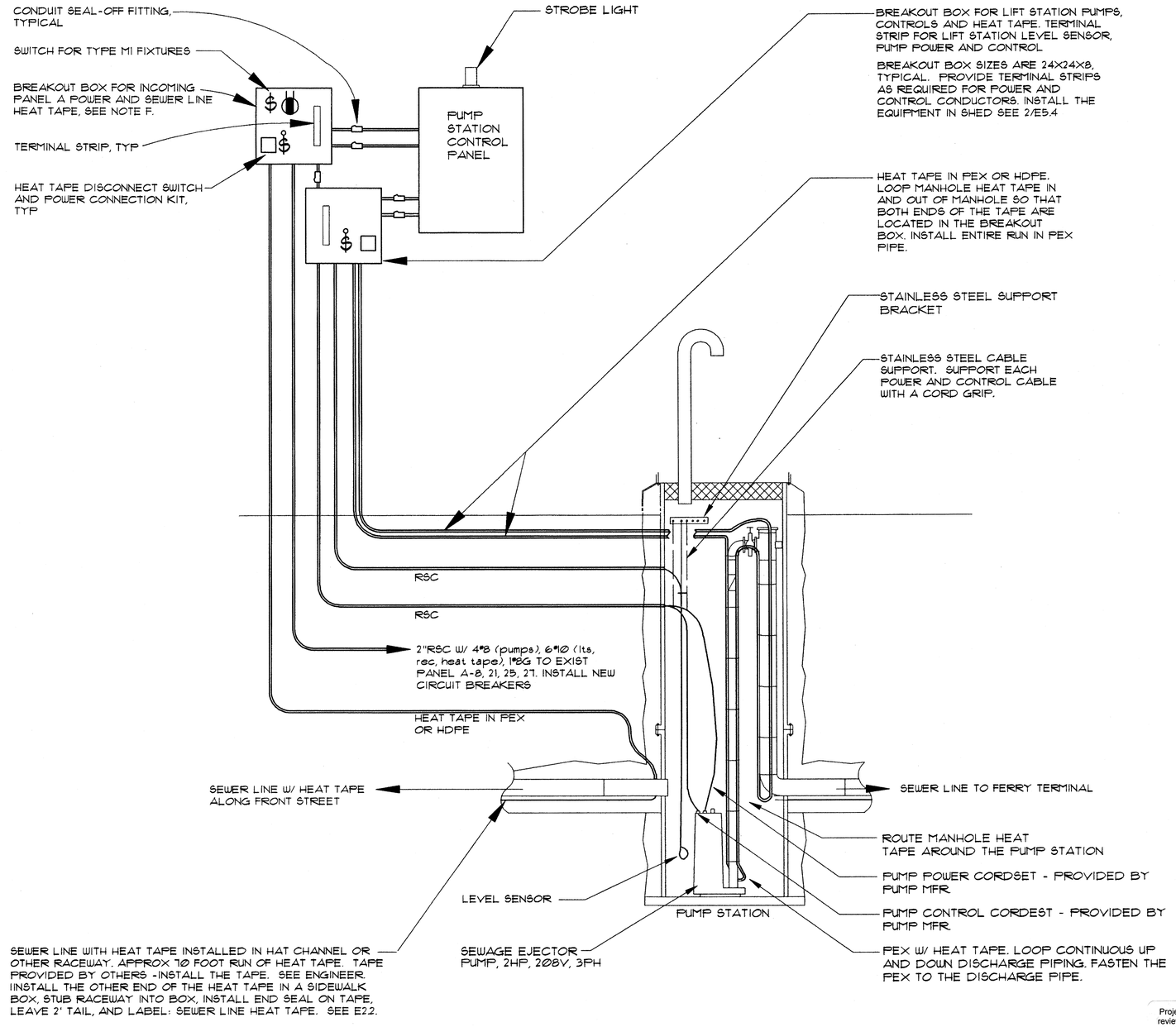
MISC. ELECTRICAL DETAILS

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1 LIFT STATION DETAIL

NO SCALE

DETAIL NOTES:

A PUMP STATION IS A CLASS I HAZARDOUS LOACTION. THE INTENT OF THE DETAIL IS TO SHOW THE INSTALLATION REQUIREMENTS FOR THE LIFT STATION PUMP AND HEAT TAPE. PUMP PIPING AND TYPE OF PUMP MAY NOT BE AS SHOWN- COORDINATE INSTALLATION WITH ENGINEER.

B SEE 16050 FOR CABLE SUPPORT AND BREAKOUT BOX HEAT TAPE INSTALLATION INFO.

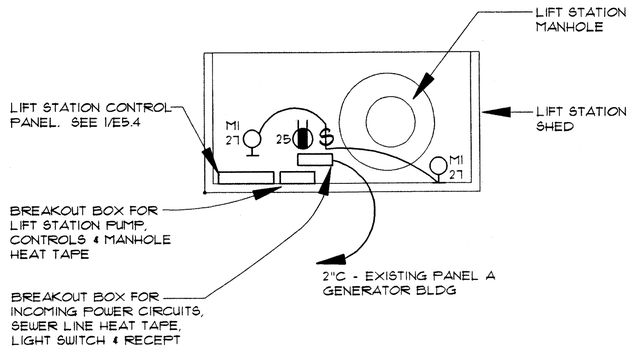
C MOUNT THE EQUIPMENT ON THE SHED WALL. COORDINATE LOCATION, INSTALLATION METHODS AND REQUIREMENTS WITH ENGINEER.

D PUMP STATION CONTROL PANEL IS PROVIDE BY OTHERS IN THIS CONTRACT. PANEL HAS PUMP DISCONNECT, OVERCURRENT PROTECTION, STARTER, CONTROLS, LEVEL SENSOR, STROBE LIGHT, PANEL HEATER AND ALARMS. MAKE COMPLETE CONNECTIONS.

E CONTROL CABLES AND PUMP CORDSET ARE PROVIDED BY OTHERS IN THIS CONTRACT. COORDINATE THE CABLE LENGTHS WITH THE ENGINEER. THE DETAIL SHOWS A MANUFACTURER'S CORDSET THAT CONTAINS PUMP POWER AND CONTROL CONDUCTORS. SIZE AND QTY OF CONDUITS CAN VARY DEPENDING UPON THE THE MFR WIRING REQUIREMENTS.

F IF THE SEWER LINE HEAT TAPE ENTERS THE LIFT STATION MANHOLE, THEN ROUTE ITS HEAT TAPE RACEWAY TO THE BREAKOUT BOX FOR THE PUMP STATION: INSTALL THE HEAT TAPE POWER CONNECTION KIT AND MAKE TERMINATIONS.

G INSTALL RECEPTACLE AND LIGHT SWITCH IN THE PUMP STATION BREAKOUT BOX.



2 LIFT STATION SHED DETAIL

SCALE: 1/8" = 1'-0"

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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Hoonah Ferry Terminal Project

MISC. ELECTRICAL DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/16/11

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67813	2009	E5.4	

HOONAH FERRY TERMINAL LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	MOUNTING	DESCRIPTION	MANUFACTURER
A4	4-42TRT SP35	PENDANT, 3 STEM, 27" HANG HEIGHT	PENDANT MOUNTED CONICAL COMPACT FLUORESCENT, 27" DIA, MATTE WHITE, SLOPE ADAPTER, METAL SIDES, 120V	SHAPER 444 SERIES
C2	2-F28T5	SURFACE	4' FLUORESCENT FROSTED LENS, PERFORATED WING OPTICS, 120V	METALUX 228T5-FL-RPU/RPD SEF
D2	2-F32T8/735	SURFACE 7'-10" BATHROOMS 7'AFF ELSEWHERE	4' FLUORESCENT INDIRECT, ASYMMETRIC DISTRIBUTION, PERFORATED SHIELD, 120V	CORELITE AW-SP-T28 SERIES
E2	2 – 8 WATT HALOGEN BY MFR	SURFACE WALL, 6" ABOVE DOOR HEADER HEIGHT	EMERGENCY BATTERY PACK 2 HALOGEN LAMPS, CHARGER, TEST SWITCH, 6 VOLT BATTERY, 24 WATT MIN, 120/277V ADJUST LAMPS FOR MAX. LIGHT DISTRIBUTION	LITHONIA 6ELM2P SERIES
ER1	1 - 6 WATT HALOGEN SEALED	SURFACE WALL SAME AS 'E2'	EMERGENCY FIXTURE, REMOTE METAL HEAD, 1 LAMP, 6V, WET LOCATION, CONNECT TO X2 OR E2	LITHONIA ELA-NX SERIES SERIES
F2	2-F32T8/735	SURFACE	4' FLUORESCENT WRAPAROUND, ACRYLIC LENS, WHITE TRIM, 120V	METALUX SA-232 SERIES
G2	2-26W TRT SP35	RECESSED GYP BOARD	8" DIA DOWNLIGHT, COMPACT FLUOR W/ CLEAR SPECULAR REFLECTOR, WHITE TRIM, ELECTRONIC BALLAST, 120V	PORTFOLIO C6526 SERIES
H2	2-26T5/735	SURFACE GYP BOARD 8'AFF	4' INDIRECT ASYMETRIC WALL MOUNT WHITE ACRYLIC LENS, END CAPS, ROUND PERFERATIONS, 120V	NEO-RAY NUMBUS 601 SERIES
J2	2-26TRT SP35	SURFACE, WALL	CURVED WALL SCONCE, COMPACT FLUORESCENT, WHITE CURVED ACRYLIC SHIELD, 120V	SHAPER 662 SERIES
K1	1-42TRT	SURFACE CEILING OR WALL 1' ABOVE HEADER	ROUND COMPACT FLUORESCENT MATTE WHITE LEN, 0F BALLAST, 120V	FAIL-SAFE RCS SERIES
L1	1-250W LU	POLE MOUNT 30' POLE	HPS PARKING LOT FIXTURE, TYPE IV WIDE DISTRIBUTION, WET LABEL, GASKETED, TGIC POWDER COAT FINISH, FLAT GLASS LENS, MOUNTING ARM, DOUBLE FUSES & HOLDERS, HOUSE SIDE SHIELD, 208V	KIM ARCHETYPE AR SERIES
			30 FOOT, SQUARE STRAIGHT STEEL POLE W/ HANDHOLE, SIDE ARM MOUNT, TGIC DARK BRONZE FINISH. BASE COVER, 120MPH W/ 30% GUST.	KIM KSS SERIES
L2	2-250W LU	POLE MOUNT	SIMILAR TO L1 EXCEPT TWO LIGHT, FIXTURES ON POLE	KIM ARCHETYPE AR SERIE!
LL1	1-250W LU	WOOD POLE DAVIT ARM	SIMILAR TO L1 EXCEPT SLIPFITTER MOUNT. INSTALL FIXTURE HEAD ON 2" OD DAVIT ARM. FASTEN ARM TO IPEC WOOD POLE. CONFIRM DAVIT ARM & FIXTURE HEAD ARE COMPATIBLE PRIOR TO ORDERING EQUIPMENT.	KIM ARCHETYPE AR SERIE! ARM = HUBBELL WB SE
M1	100W A-LAMP INCAND	SURFACE WALL	ENCLOSED GASKETED INCANDESCENT VAPORTIGHT FIXTURE, WALL MOUNT BRACKET, W/ WIRE GUARD, 120V, WET LOCATION, THERMOPLASTIC GLOBE.	HUBBELL NVB SERIES
X2	LED & 2-5.4W HALOGEN HEADS	WALL, BACKMOUNT. 6" ABOVE DOOR HEADER HEIGHT	COMBO LED EXIT FIXTURE WITH 2-EMERG LIGHT, GREEN LETTERING, CHARGER, TEST, HIGH OUTPUT BATTERY, ARROWS PER PLAN, WHITE HOUSING, EMERGENCY HALOGEN LAMPS, 120V UNIT SHALL POWER 2 - ER1 REMOTE LAMPS	LITHONIA LHQM SERIES QUANTUM

NOTES:

1. MANUFACTURER'S LISTED ARE TO ESTABLISH QUALITY AND TYPE OF LIGHTING FIXTURE. PRIOR TO ORDERING THE FIXTURES THE OWNER AND ELECTRICAL CONTRACTOR SHALL SELECT THE TYPES OF FIXTURES, MOUNTING TYPES/ACCESSORIES, COLORS AND FINISHES.
2. PROVIDE LAMPS AND ALL MOUNTING AND OPERATING ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL FIXTURES SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR INSTALLED FROM IT'S JBOX TO THE FIXTURE GROUND. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE PER IBC REQUIREMENTS.
3. INDOOR BALLASTS SHALL BE HIGH POWER FACTOR, CLASS P, SOUND RATED 'A'. FLUORESCENT BALLASTS SHALL BE ELECTRONIC, 10% MAX. TOTAL HARMONIC DISTORTION, RAPID START, FULL LIGHT OUTPUT TYPE.
4. EXTERIOR HID FIXTURE BALLAST SHALL BE SUITABLE FOR OUTDOOR INSTALLATION, CONSTANT WATTAGE AUTOTRANSFORMER TYPE BALLAST AND RATED FOR -20F STARTING, BEAR THE SEAL OF THE CERTIFIED BALLAST MANUFACTURERS AND UNDERWRITERS' LABORATORIES, INC. IN ACCORDANCE WITH UL 1029, CLASS C SOUND RATING.

NEW PANEL 'B' SCHEDULE

CKT. NO	P	TRIP	LOAD SERVED	LOAD (WATTS) A	B	C	LOAD TYPE L,G,M,.	CKT. NO.	P	TRIP	LOAD SERVED	LOAD (WATTS) A	B	C	LOAD TYPE
1	1	20	Lts- Office, Ticketing	499			L	2	1	20	Spare			0	S
3	1	20	Lts - Waiting 1		615		L	4	1	20	Rec - Bath Janitor GFCI		1080		G
5	1	20	Lts - Waiting 2			1532	L	6	1	20	Rec - Tel TT B			360	G
7	1	20	Lts - Sconces	495			L	8	1	20	Rec - Computer CPP	360			G
9	1	20	Lts- Bathrooms		830		L	10	1	20	Rec - Security		360		G
11	1	20	Lts - Exterior Wall			506	L	12	1	20	Rec - Storage, W. Waiting			900	G
13	1	20	Spare	0			S	14	1	20	TEF-1,2, Tranf Fans	342			M
15	1	20	Ltg Control Circuit		50		L	16	1	20	Rec - N Waiting		900		G
17	2	20	Ltg Parking Lot-South			1240	L	18	1	20 *	Oil fired heater			200	A
19			" "	1240			L	20	1	20	Rec - S Waiting 2	900			G
21	2	20	Ltg Parking Lot-North		1550		L	22	1	20 *	Fuel Oil Transfer Pump		200		M
23			" "			1550	L	24	1	20	Spare			0	S
25	1	20	Spare	0			S	26	3	100	Panel C	5330			F
27	1	20	Spare		0		S	28			"		5650		F
29	1	20	Space			0	S	30			"			2540	F

225 AMP PANEL -MLO, 120/208, 3 PH, 4W
10,000 AIC, FLUSH MOUNTED, NEMA 1
GROUND BUS
* = LOCKABLE HASP

NEW PANEL 'C' SCHEDULE

CKT. NO.	P	TRIP	LOAD SERVED	LOAD (WATTS) A	B	C	LOAD TYPE L,G,M,.	CKT. NO.	P	TRIP	LOAD SERVED	LOAD (WATTS) A	B	C	LOAD TYPE
1	1	20	Heat- Storage, Janitor	1000			H	2	2	30 *	HWH-1 Hot Water Htr	2250			H
3	1	20	Heat- Womens		1000		H	4			"		2250		H
5	1	20	Heat- Mens			1000	H	6	1	20	Rec - Vending			1000	A
7	1	20	Heat- Office	500			H	8	1	20	Rec - Vending	500			A
9	1	20	Heat- Ticketing		1000		H	10	1	20	Rec - Vending		500		A
11	1	20	Spare			0	S	12	1	20	Rec - Office, Ticketing			540	G
13	1	20	Spare	0			S	14	1	20	Rec - Ticketing	1080			G
15	1	20	Spare		0		S	16	1	20	Rec - Office, Ticketing		900		G
17	1	20	Spare			0	S	18	1	20	Spare			0	S
19	1	20	Spare	0			S	20	1	20	Spare	0			S
21	1	20	Spare		0		S	22	1	20	Spare		0		S
23	1	20	Spare			0	S	24	1	20	Space			0	S
25	1	20	Spare	0			S	26	1	20	Space	0			S
27	1	20	Spare		0		S	28	1	20	Space		0		S
29	1	20	Spare			0	S	30	1	20	Space			0	S

100 AMP PANEL -MLO, 120/208, 3 PH, 4W
10,000 AIC, FLUSH MOUNTED, NEMA 1
GROUND BUS
* = LOCKABLE HASP

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/14/11

NELSON ELECTRICAL ENGINEERING
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907.225.2951
keithnelson@kpunet.net

DESIGNED BY: KCN
CHECKED BY: TED
DRAWN BY: KCN
PATH:
PLOT:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal Project

ELECTRICAL PANEL & LIGTHING SCHEDULES

REVISIONS NO.	DATE	DESCRIPTION
1	10-15-09	DOT UPDATED SET
2	7-22-09	DOT UPDATED SET

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	E6.1	

EXISTING PANEL 'A' SCHEDULE

CKT. NO.	P	TRIP	LOAD SERVED	LOAD A	(WATTS) B	C	LOAD TYP L,G,M,A,	CKT. NO.	P	TRIP	LOAD SERVED	LOAD A	(WATTS) B	C	LOAD TYPE
1	1	20	ExBridge Lighting	0			L	2	1	20	Exist Parking Lot Ltg	0			L
3	1	20	ExBridge Lighting		0		L	4	1	20	Exist Parking Lot Ltg		0		L
5	1	20	ExBridge Lighting			0	L	6	1	20	Exist Parking Lot Ltg			0	L
7	3	70	ExBridge Transformer	0			F	8	1	20	Exist Parking Lot Ltg	0			L
9			" "		0		F	10	2	70	ExFerry Terminal		0		F
11			" "			0	F	12			" "			0	F
13	1	20	ExGenerator Bldg Lts	0			L	14	1	20	ExDay Tank	0			A
15	1	20	Spare		0		S	16	1	20	ExFACP		0		A
17	1	20	ExRecept			0	G	18	1	20	ExRecept			0	F
19	1	20	??	0			S	20	1	20	ExHeater	0			H
21	1	20	Spare		0		S	22	1	20	" "		0		H
23	1	20	Spare			0	S	24	1	20	Spare			0	F
25	1	20	Spare	0			S	26	1	20	ExGenerator Heater	0			H
27	1	20	Space		0		S	28	1	20	ExBattery Charger		0		A
29	1	20	Space			0	S	30	1	20	Space			0	S

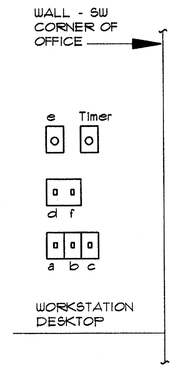
EXISTING SQUARE D NQOD, 225 AMP PANEL -MLO, 120/208V, 3PH, 4W
10,000 AIC, SURFACE MOUNTED, NEMA 1
REMOVE EXISTING CIRCUIT BREAKERS AS REQUIRED BY NEW CONSTRUCTION (SEE REVISED PANEL A SCHEDULE) AND TURN THEM OVER TO THE ENGINEER AS SPARES.

EXISTING PANEL 'A' - REVISED SCHEDULE

CKT. NO.	P	TRIP	LOAD SERVED	LOAD A	(WATTS) B	C	LOAD TYPE L,G,M,A,H,C	CKT. NO.	P	TRIP	LOAD SERVED	LOAD A	(WATTS) B	C	LOAD TYPE
1	1	20	ExBridge Lighting				L	2	1	20	Spare (Existing CB)	0			S
3	1	20	ExBridge Lighting				L	4	1	20	Spare (Existing CB)		0		S
5	1	20	ExBridge Lighting				L	6	1	20	Spare (Existing CB)			0	S
7	3	70	ExBridge Transformer				M	8	3	30 *	New Lift Station Pump	2546			M
9			" "				M	10			" "		2546		M
11			" "				M	12			" "			2546	M
13	1	20	ExGenerator Bldg Lts				L	14	1	20	ExDay Tank				A
15	1	20	Spare		0		S	16	1	20	ExFACP				A
17	1	20	ExRecept				G	18	1	20	ExRecept				G
19	1	20	??				S	20	1	20	ExHeater				H
21	2	20 **	New Heat Tape		250		C	22	1	20	" "				H
23			" "			250	C	24	1	20	Spare				F
25	1	20 *	New Rec - Lift Station	180			G	26	1	20	ExGenerator Heater				H
27	1	20 *	New Lts - Lift Station		200		L	28	1	20	ExBattery Charger				A
29	1	20	Space				S	30	1	20	Space				S

EXISTING 225 AMP PANEL -MLO, 120/208V. 3PH. 4W
10.000 AIC. SURFACE MOUNTED. NEMA 1
INSTALL DOUBLE LUGS. GROUND BUS
* = NEW CIRCUIT BREAKER W/ LOCKABLE HASP
** = NEW GFCI CIRCUIT BREAKER, 5mA

INSTALL NEW CIRCUIT BREAKERS FOR HEAT TAPE, LIFT STATION, RECEPTACLE AND LIGHT FIXTURES. INSTALL LUGS TO FEED NEW PANEL B. REMOVE EXISTING 20A/1P CIRCUIT BREAKERS THAT FED EXISTING PARKING LOT LIGHTING AND LEAVE AS SPARES - REMOVE EXISTING CONDUIT, WIRE AND LIGHTING CONTACTOR ASSOCIATED WITH PARKING LOT LIGHTING. REVISE CIRCUIT BREAKER LOCATIONS IN PANEL TO ACCOMODATE NEW WIRING. PROVIDE NEW TYPED CIRCUIT DIRECTORY.



LIGHTING SWITCH SCHEDULE	
a	WAITING #2 - CEILING LIGHTS
b	WAITING #2 - WALL SCONCES
c	WAITING #1 - CEILING LIGHTS
d	BATHROOM LIGHTS
e	WAITING #2 - CIRCULATION FAN, 3SPEED CONTROL
f	WAITING #1 - WALL MOUNTED FLUORESCENTS
Timer	PARKING LOT & EXTERIOR WALLPACKS - 4HR TIMER SWITCH

PROVIDE PLASTIC LAMINATE LABEL FOR EACH SWITCH PER 16050. EACH LABEL SHALL DESCRIBE WHAT THE SWITCH CONTROLS - TYPE OF FIXTURE OR FAN AND THE ROOM NAME.

1 SWITCHES IN OFFICE ELEVATION
NO SCALE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/14/11

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DRAWN BY: KCN

STATE OF ALASKA
49th
KEITH NELSON
EE-7655
6-8-09
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Ferry Terminal Project

ELECTRICAL PANEL SCHEDULES & MISC DETAILS

PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION
2	10-15-09	DOT UPDATED SET
1	7-22-09	DOT UPDATED SET

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67813	2009	E6.2	