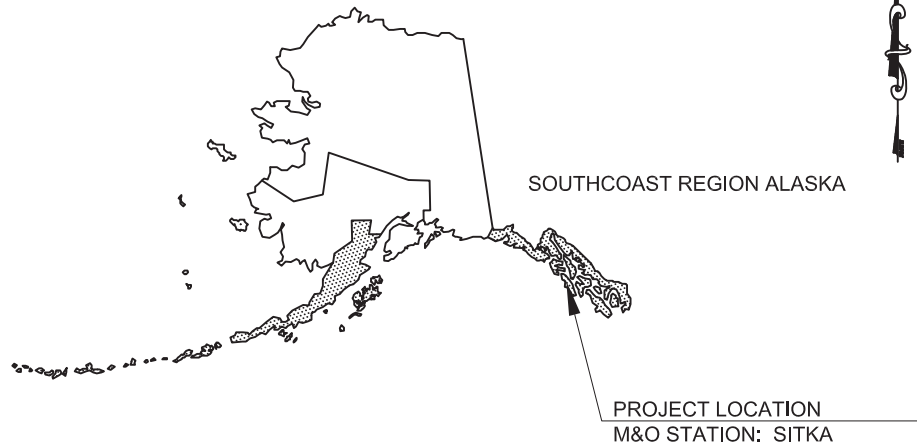


# LATITUDE

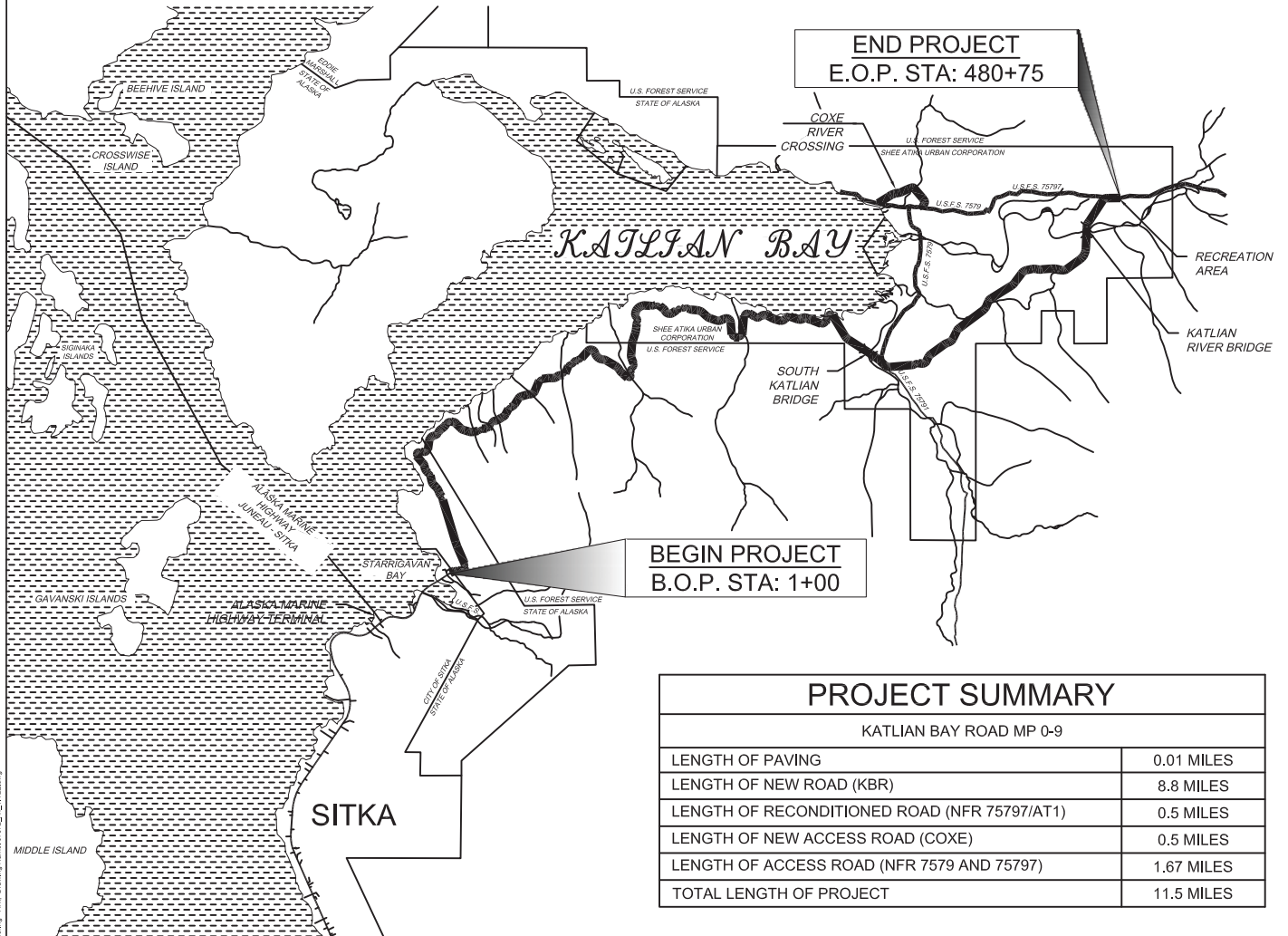
57° 09' 18.93" N

# LONGITUDE

135° 19' 48.23" W



NOT TO SCALE



## PROJECT SUMMARY

| KATLIAN BAY ROAD MP 0-9                      |            |
|----------------------------------------------|------------|
| LENGTH OF PAVING                             | 0.01 MILES |
| LENGTH OF NEW ROAD (KBR)                     | 8.8 MILES  |
| LENGTH OF RECONDITIONED ROAD (NFR 75797/AT1) | 0.5 MILES  |
| LENGTH OF NEW ACCESS ROAD (COXE)             | 0.5 MILES  |
| LENGTH OF ACCESS ROAD (NFR 7579 AND 75797)   | 1.67 MILES |
| TOTAL LENGTH OF PROJECT                      | 11.5 MILES |

ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

WATER BODY: KATLIAN BAY

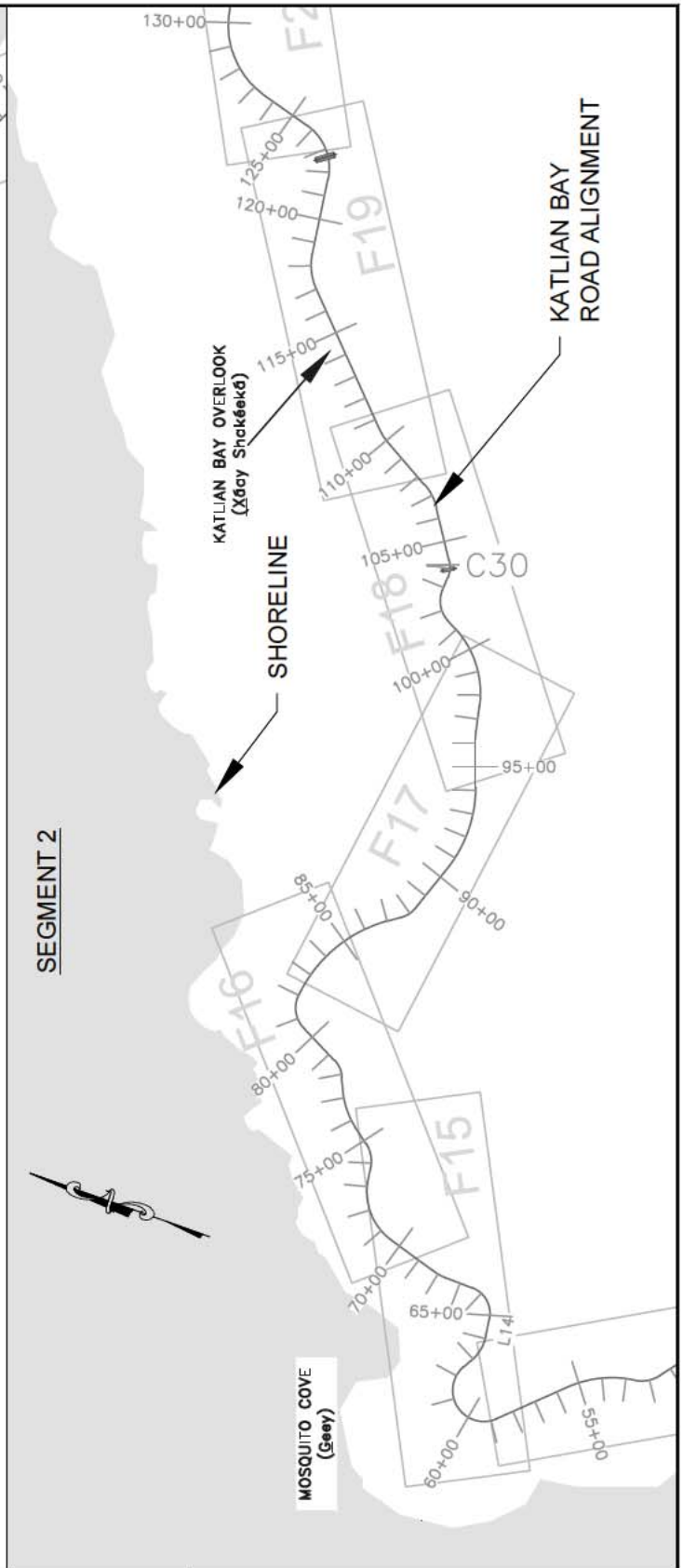
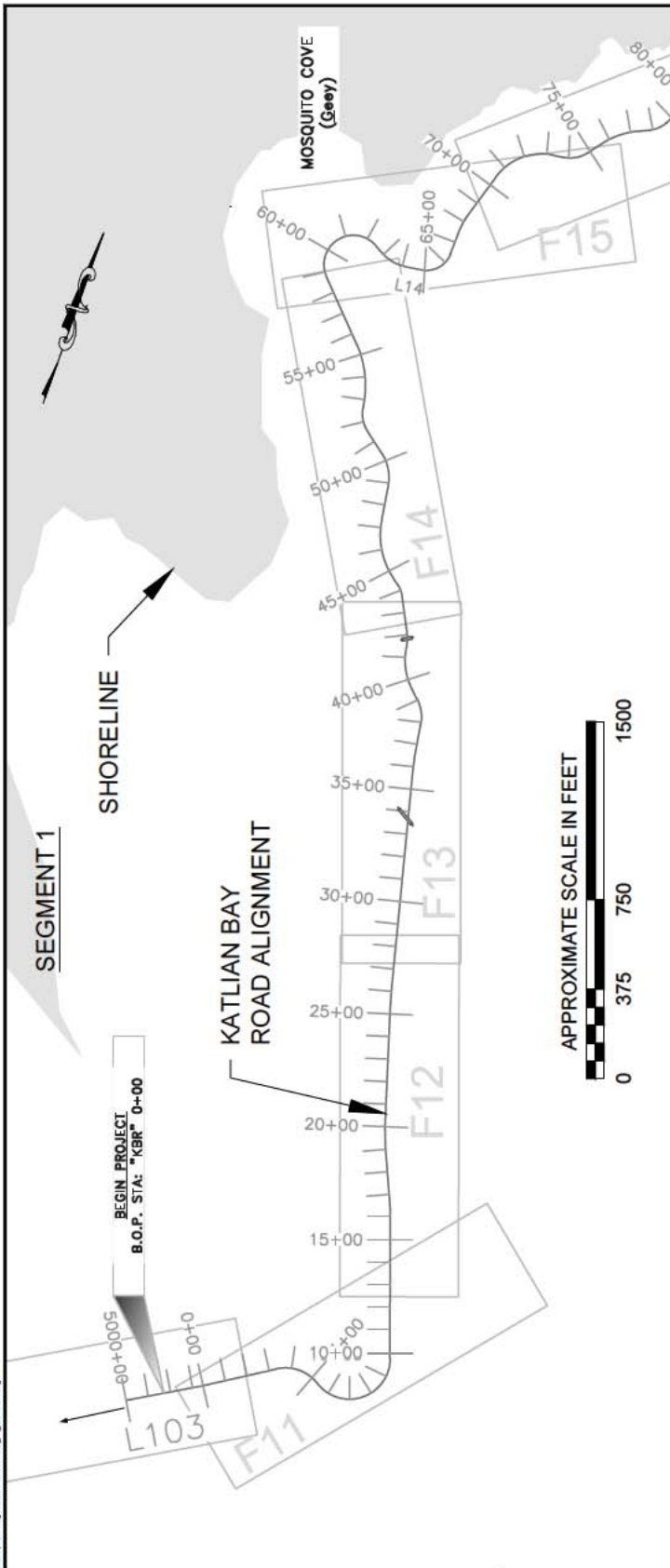
## VICINITY MAP

APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 1 OF 44  
 DATE: 10/11/2017

Project: 67672 - Sitka, Alaska, Road Construction  
Drawing: 67672-AL LAYOUT.dwg  
Drawing Date: 10/02/2017  
Drawing Title: LAYOUT  
Drawing Scale: 1"=100'  
Drawing Author: P. H. HARRIS  
Drawing Checker: P. H. HARRIS  
Drawing Date: 10/02/2017  
Drawing Title: LAYOUT  
Drawing Scale: 1"=100'  
Drawing Author: P. H. HARRIS  
Drawing Checker: P. H. HARRIS



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

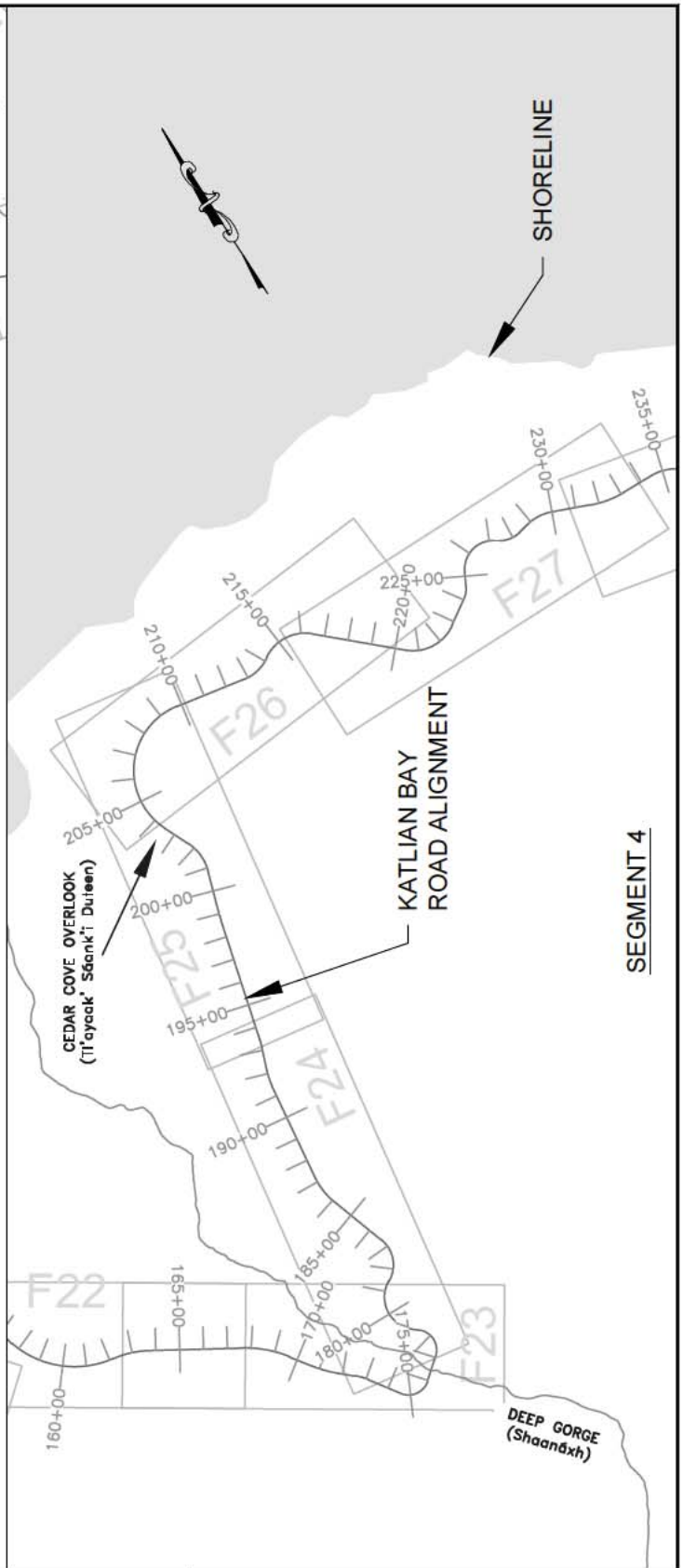
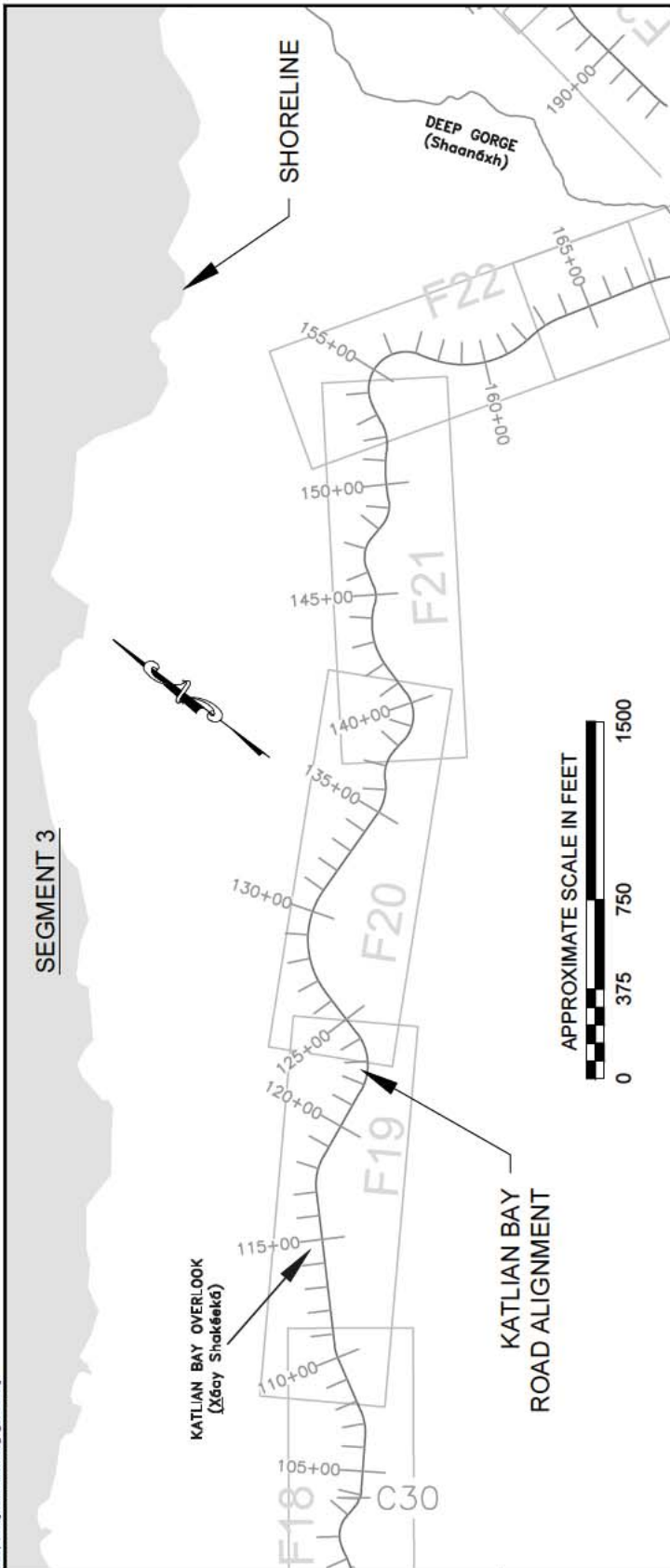
#### LAYOUT

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 2 OF 44  
DATE: 10/02/2017

Project: 67672 - 1.00 - Roadway Construction  
Drawing: 67672-1.00-01 - Roadway Construction  
Drawing Title: LAYOUT  
Drawing Scale: 1" = 100'  
Drawing Date: 10/02/2017  
Drawing By: J. L. Smith  
Drawing Check: J. L. Smith  
Drawing Appr: J. L. Smith  
Drawing Date: 10/02/2017  
Drawing By: J. L. Smith  
Drawing Check: J. L. Smith  
Drawing Appr: J. L. Smith



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

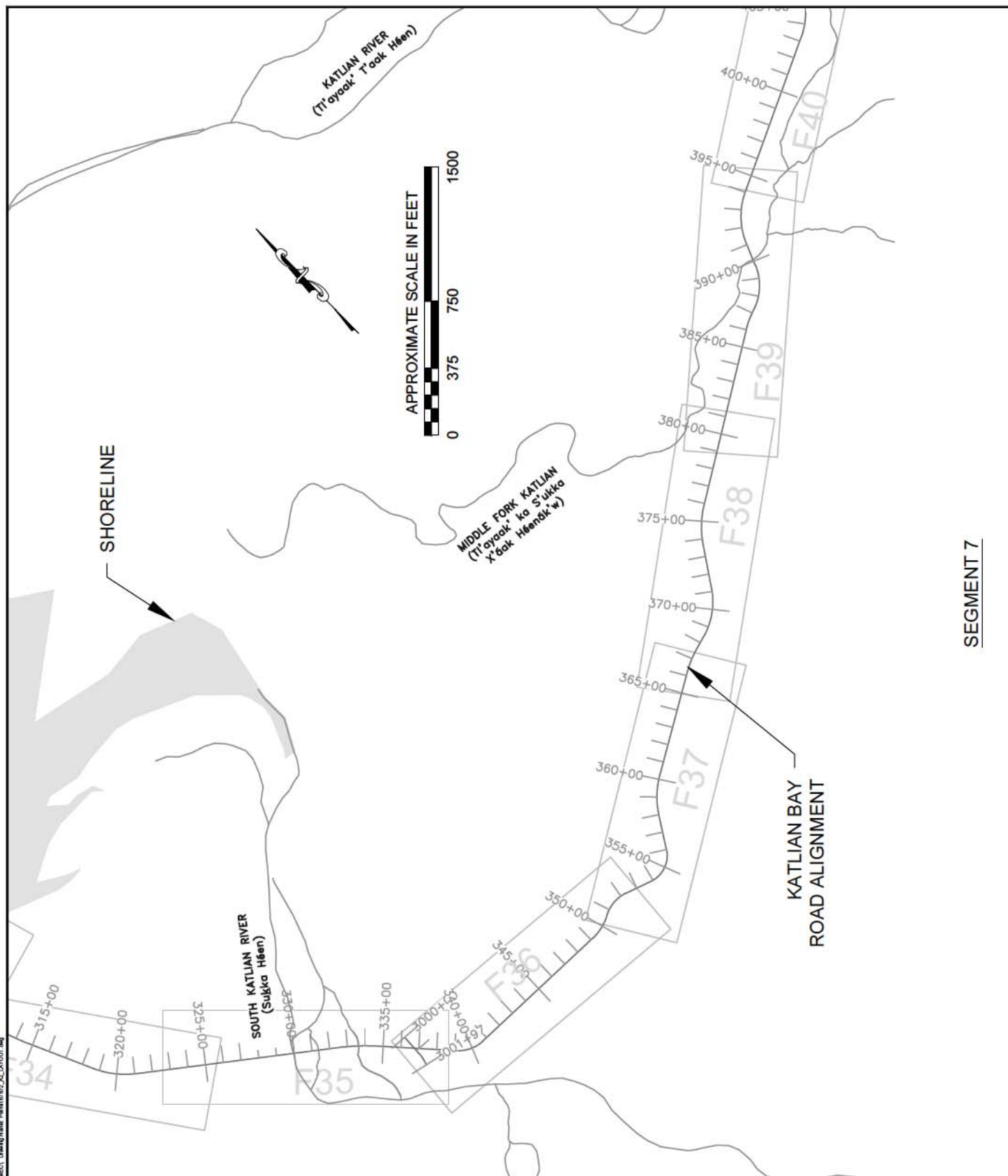
#### LAYOUT

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 3 OF 44  
DATE: 10/02/2017





ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

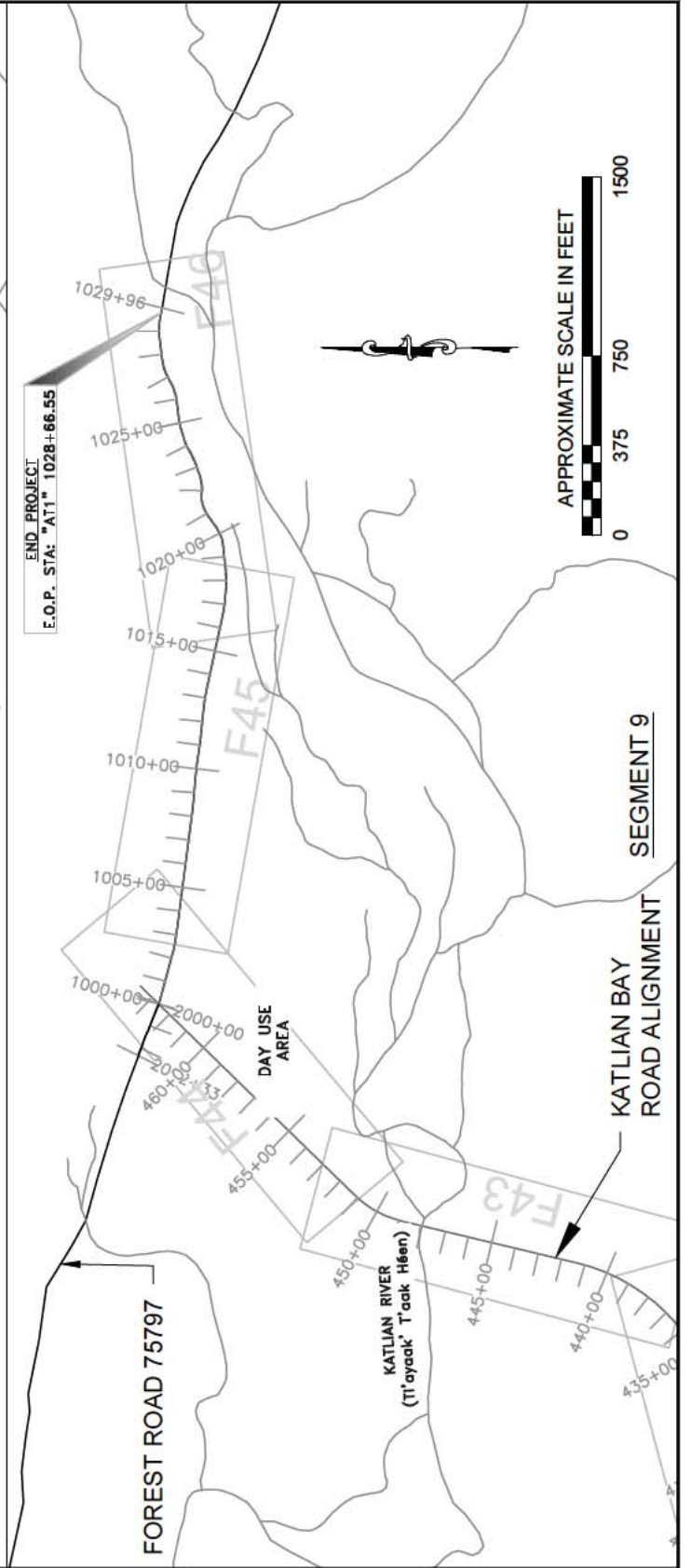
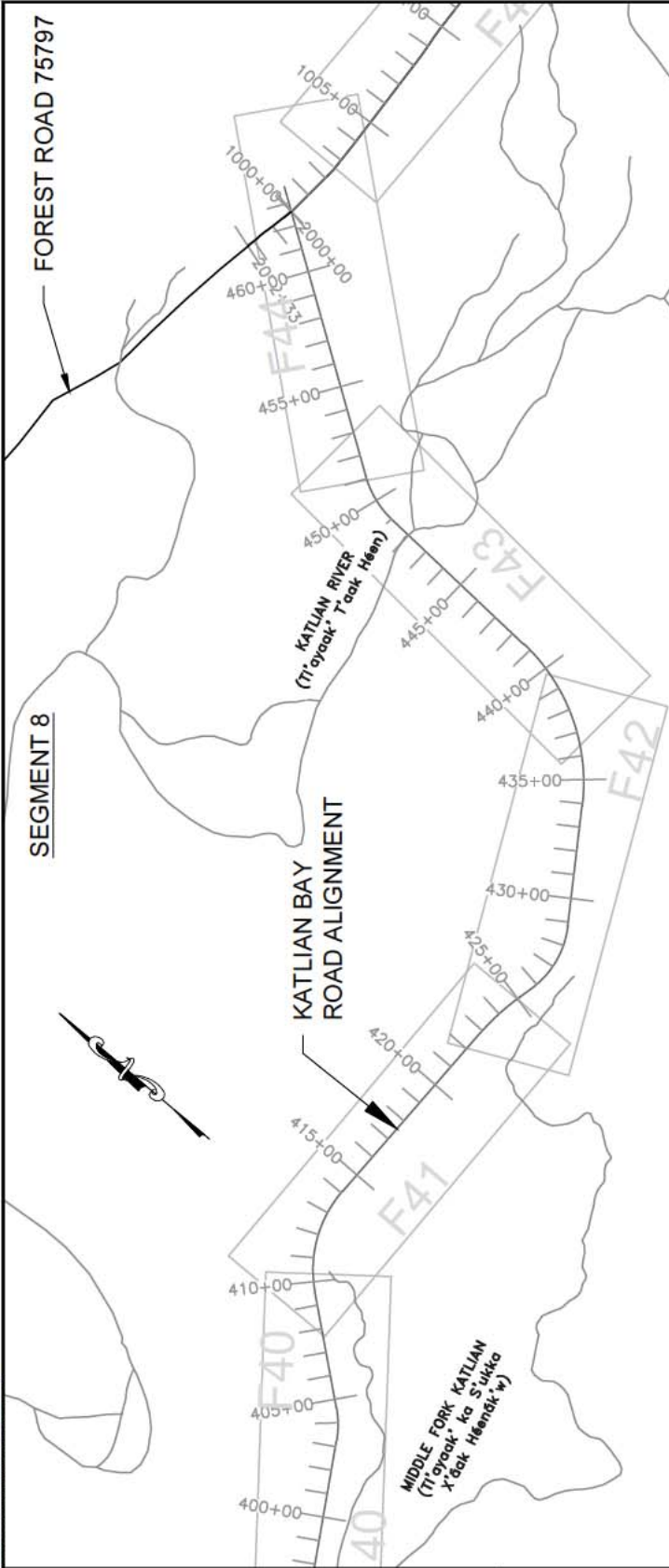
WATER BODY: KATLIAN BAY

## LAYOUT

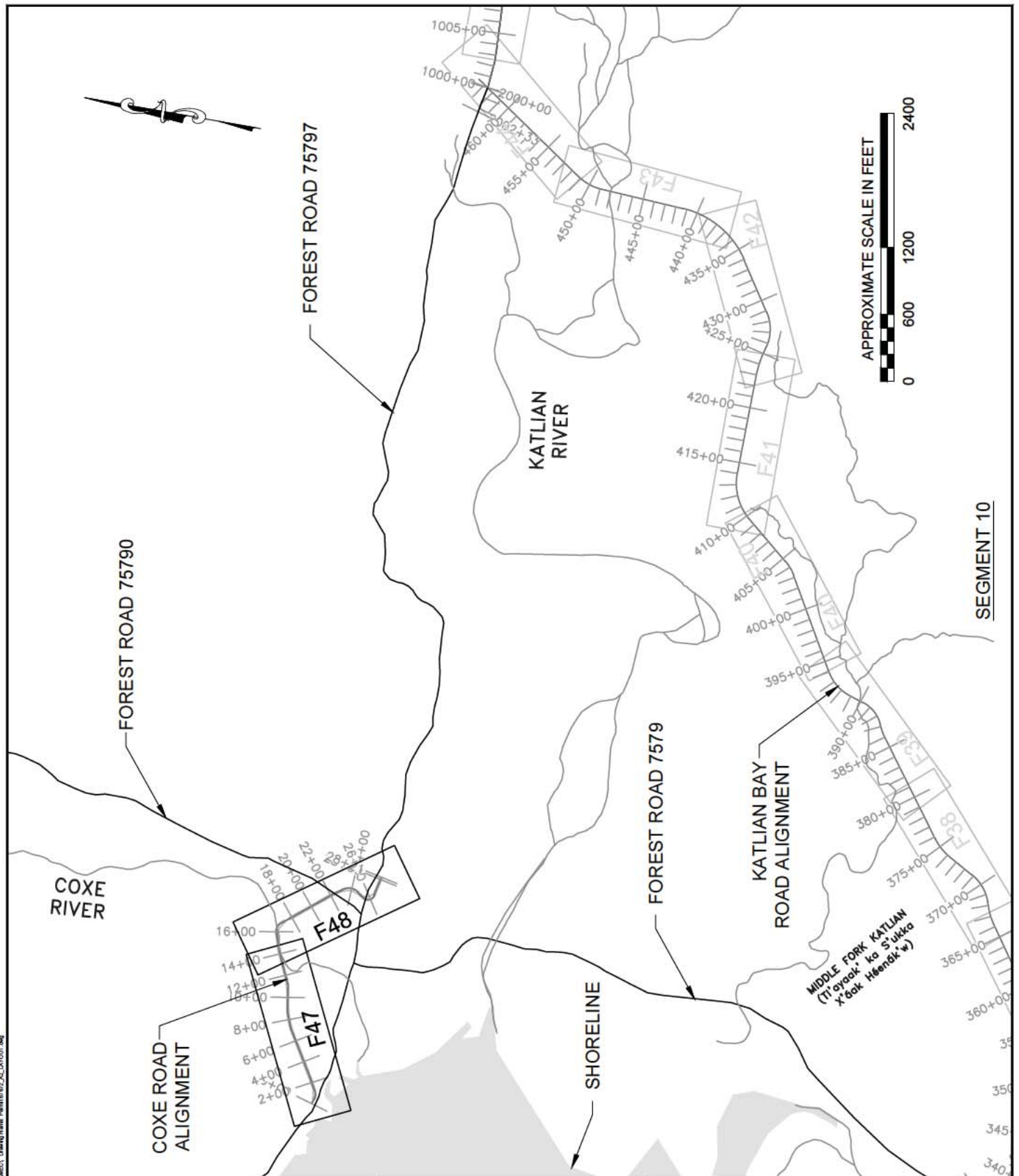
APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 5 OF 44  
DATE: 10/02/2017



|                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>ADJACENT PROPERTY OWNERS:</b><br/>                 US FOREST SERVICE<br/>                 STATE OF ALASKA<br/>                 SHEE ATIKA URBAN CORPORATION<br/>                 CITY OF SITKA</p> <p><b>WATER BODY: KATLIAN BAY</b></p> | <p><b>LAYOUT</b></p> <p><b>APPLICATION BY:</b><br/>                 STATE OF ALASKA DEPARTMENT<br/>                 OF TRANSPORTATION AND<br/>                 PUBLIC FACILITIES<br/>                 SOUTHCOAST REGION ALASKA</p> | <p><b>SITKA: KATLIAN BAY ROAD<br/>                 ROAD CONSTRUCTION</b><br/> <b>STATE PROJECT NUMBER: 67672</b></p> <p><b>NEAR:</b> SITKA, ALASKA<br/> <b>LOCATED IN:</b> T55S-R63E &amp; 64E and T54S-R63E &amp; 64E<br/> <b>SHEET</b> 6 OF 44<br/> <b>DATE:</b> 10/02/2017</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

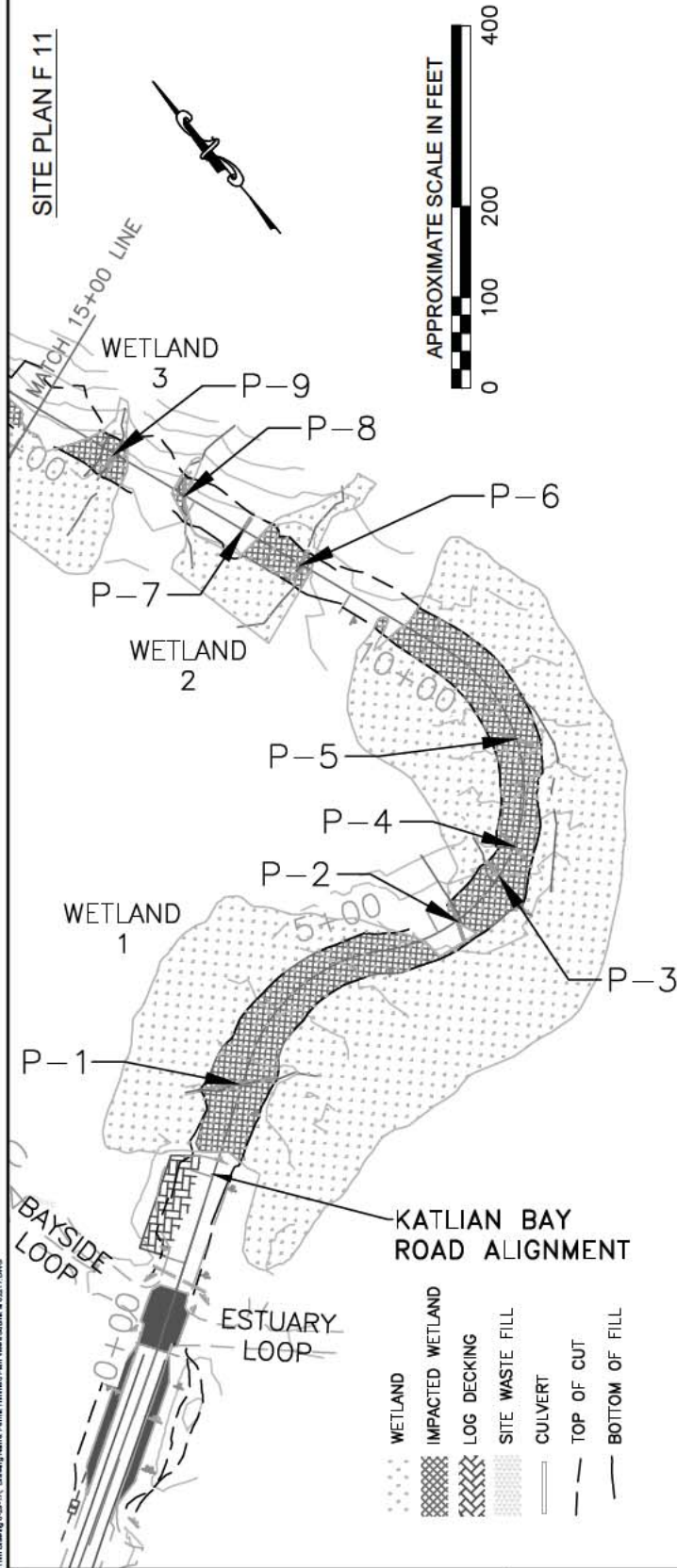
## LAYOUT

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

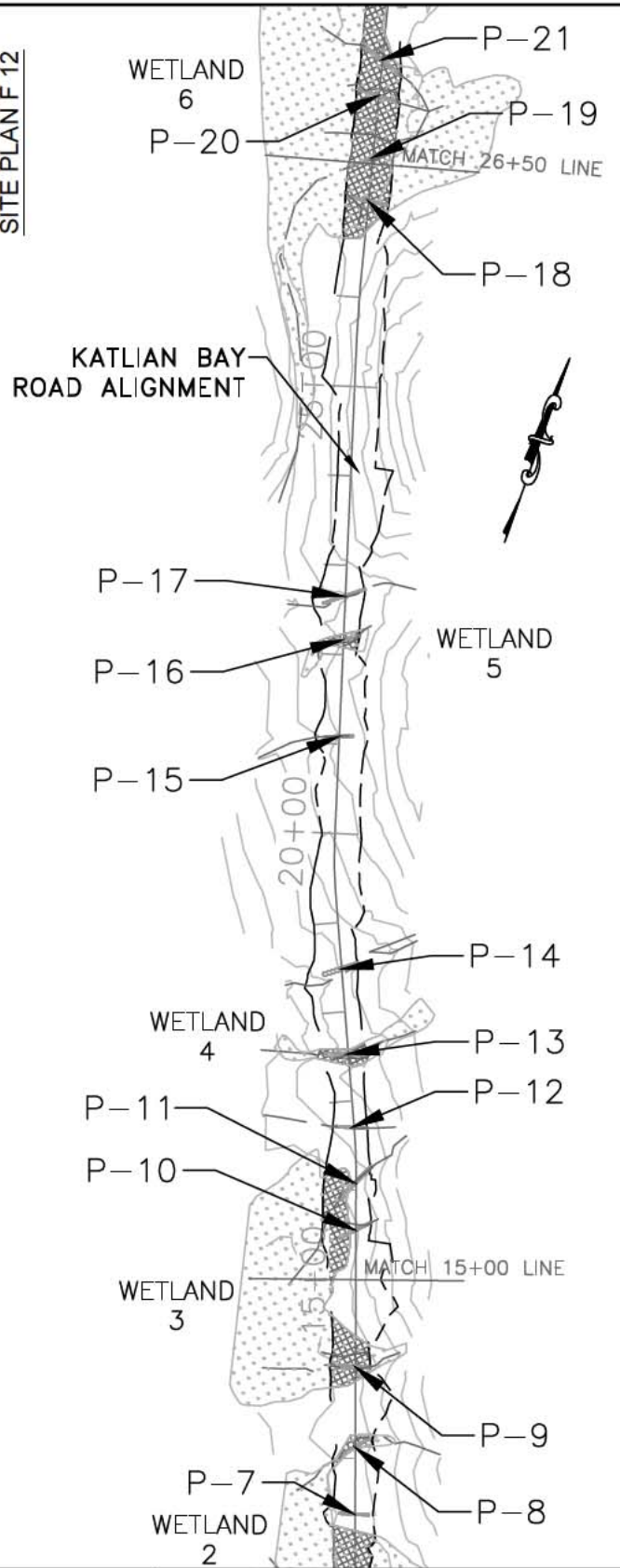
SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 7 OF 44  
DATE: 10/02/2017

# SITE PLAN F 11



# SITE PLAN F 12



ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

WATER BODY: KATLIAN BAY

## SITE PLAN

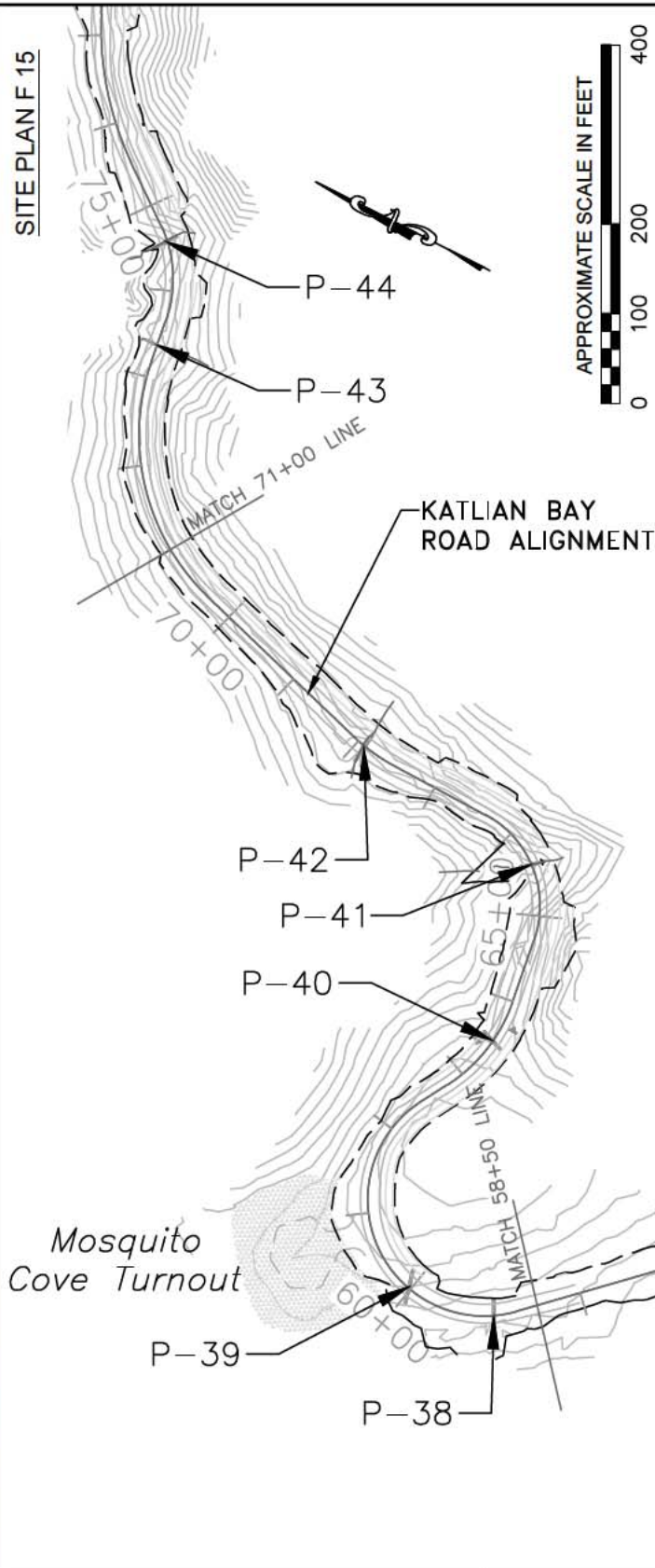
APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOAST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

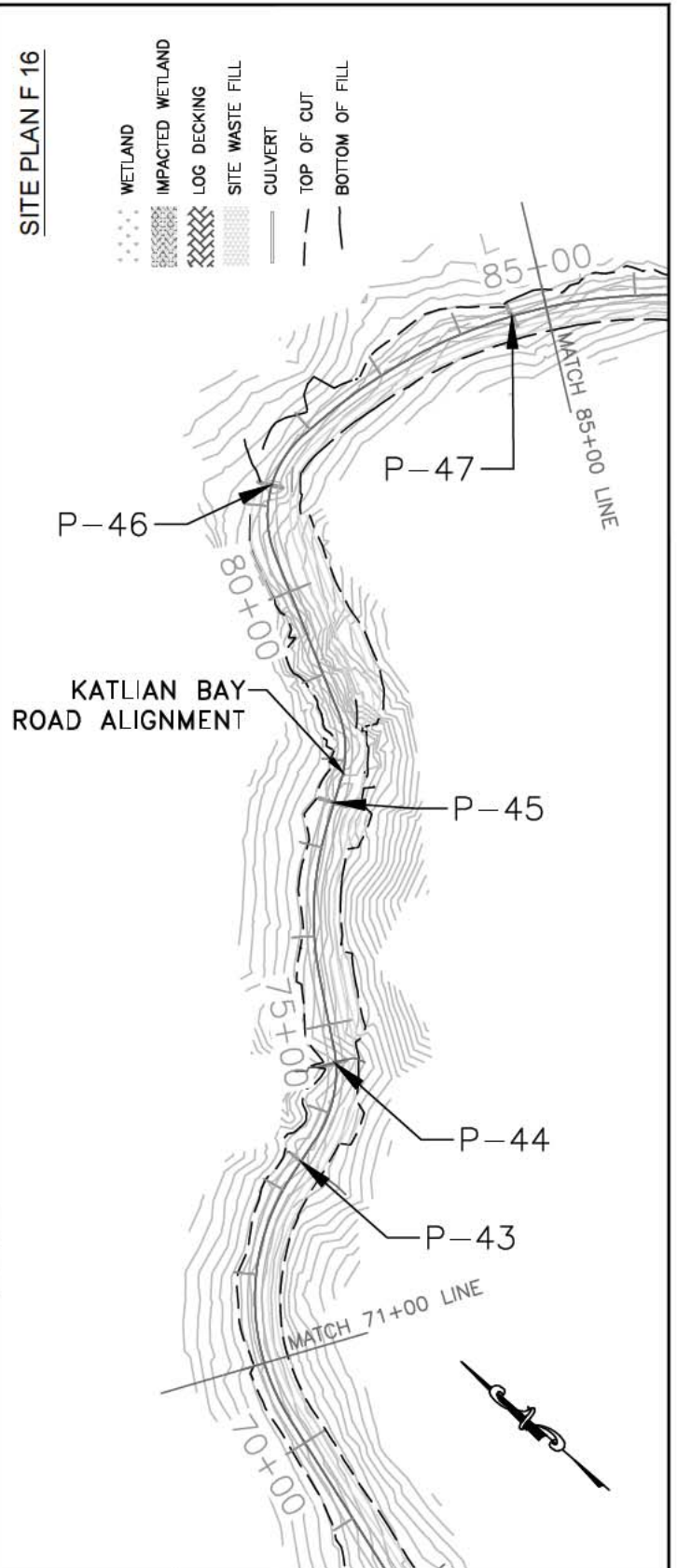
NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 8 OF 44  
 DATE: 10/02/2017



# SITE PLAN F 15



# SITE PLAN F 16



ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

WATER BODY: KATLIAN BAY

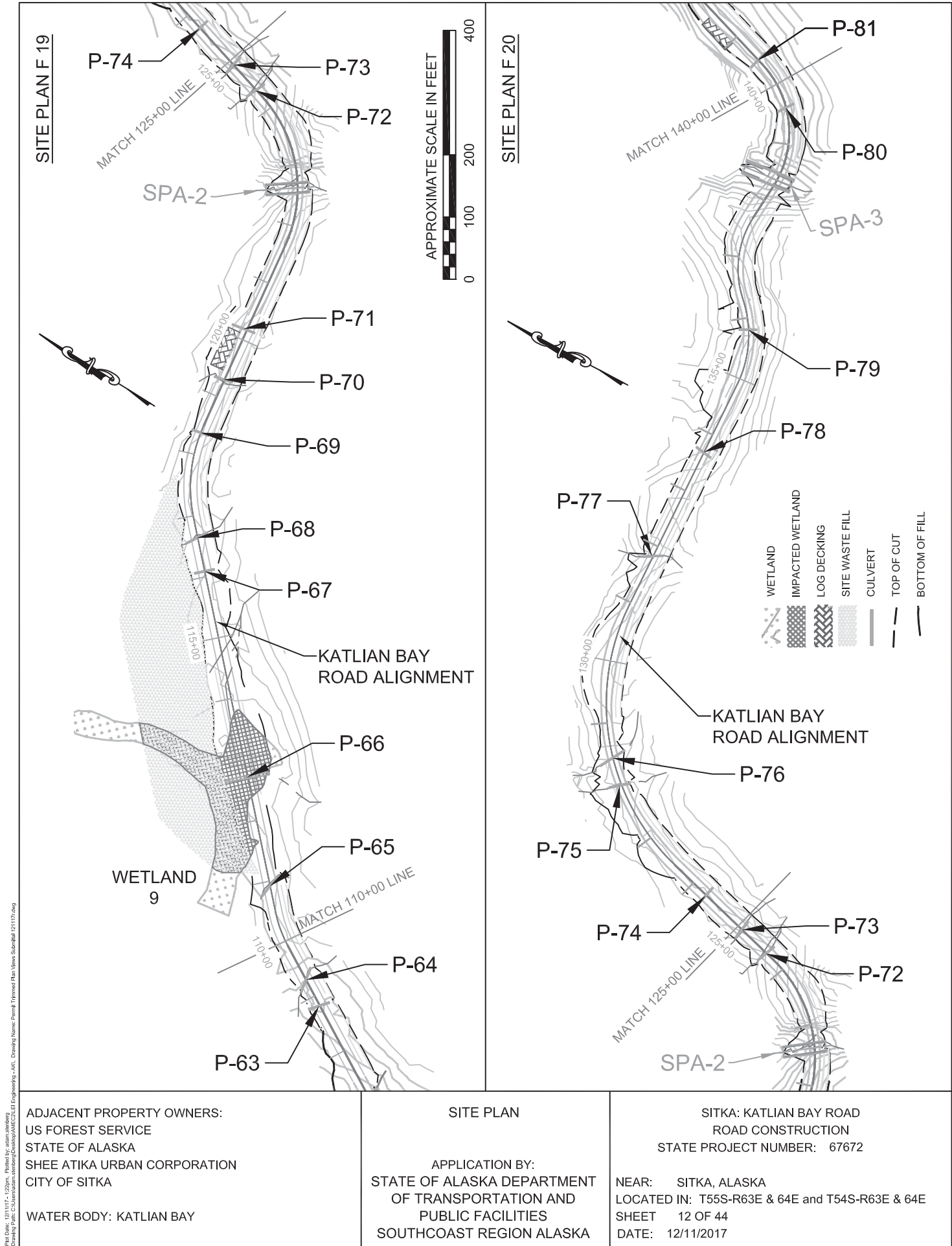
## SITE PLAN

APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOAST REGION ALASKA

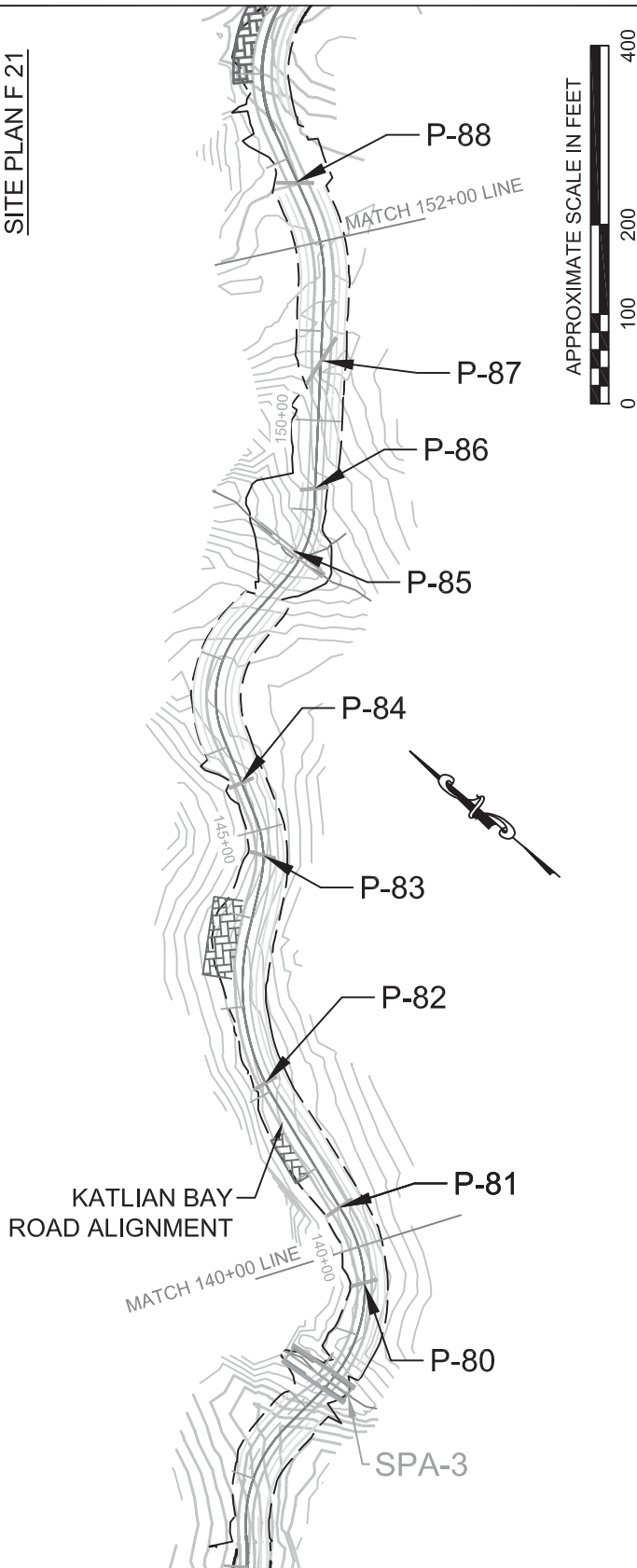
SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 10 OF 44  
 DATE: 10/02/2017

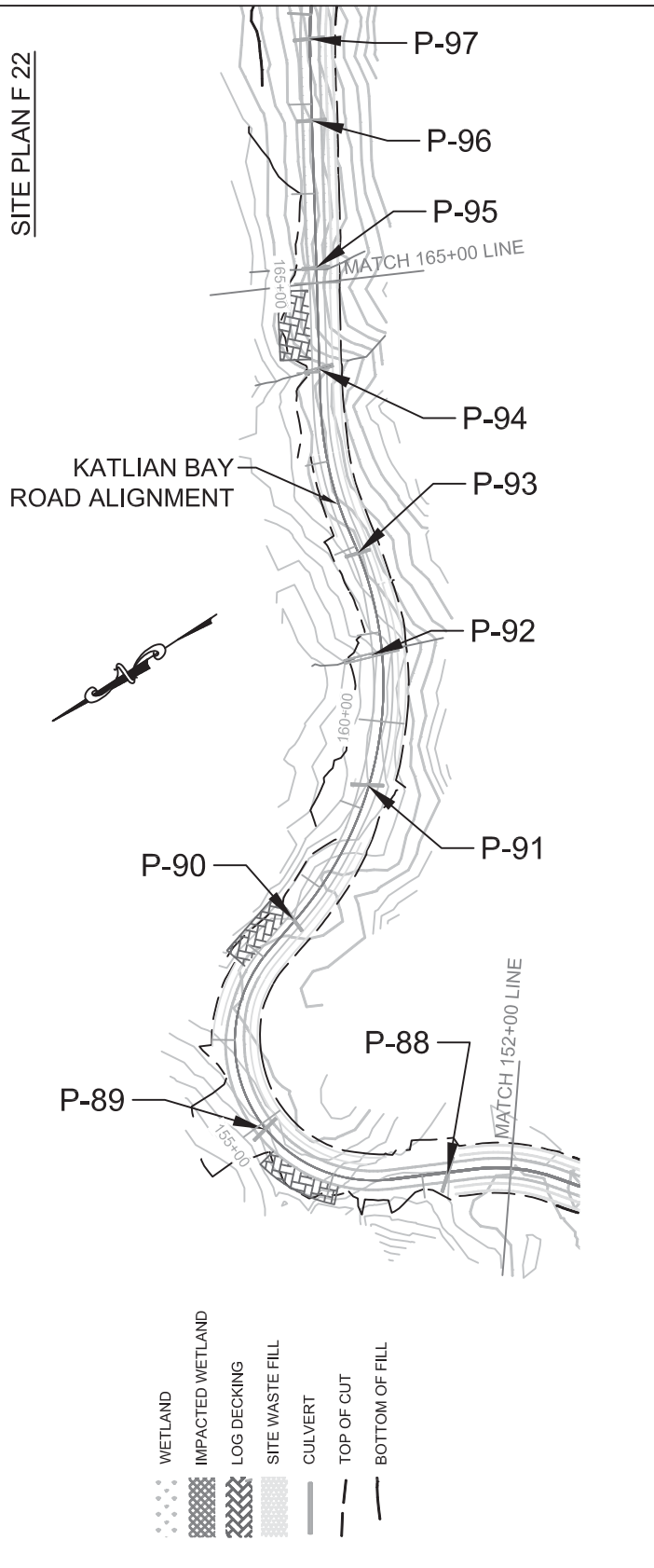




# SITE PLAN F 21



# SITE PLAN F 22



- WETLAND
- IMPACTED WETLAND
- LOG DECKING
- SITE WASTE FILL
- CULVERT
- TOP OF CUT
- BOTTOM OF FILL

ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

WATER BODY: KATLIAN BAY

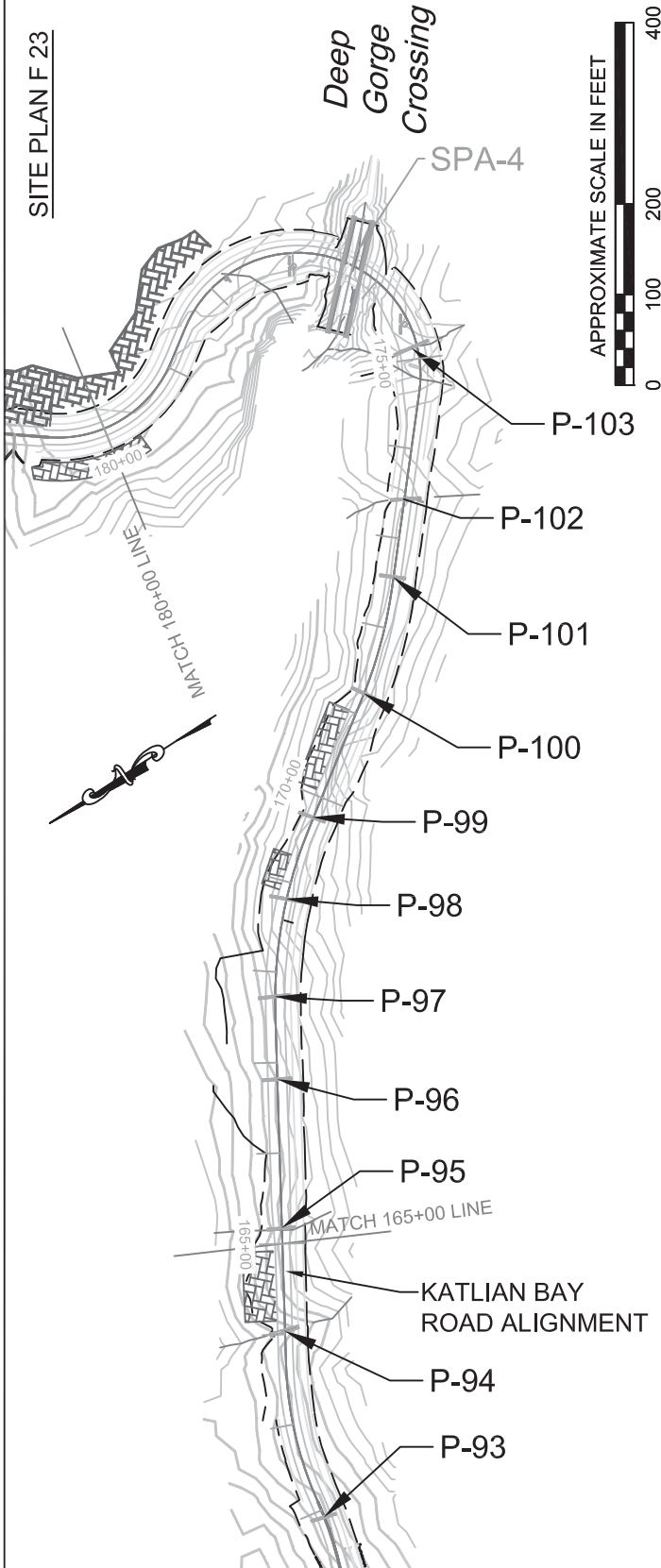
## SITE PLAN

APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOAST REGION ALASKA

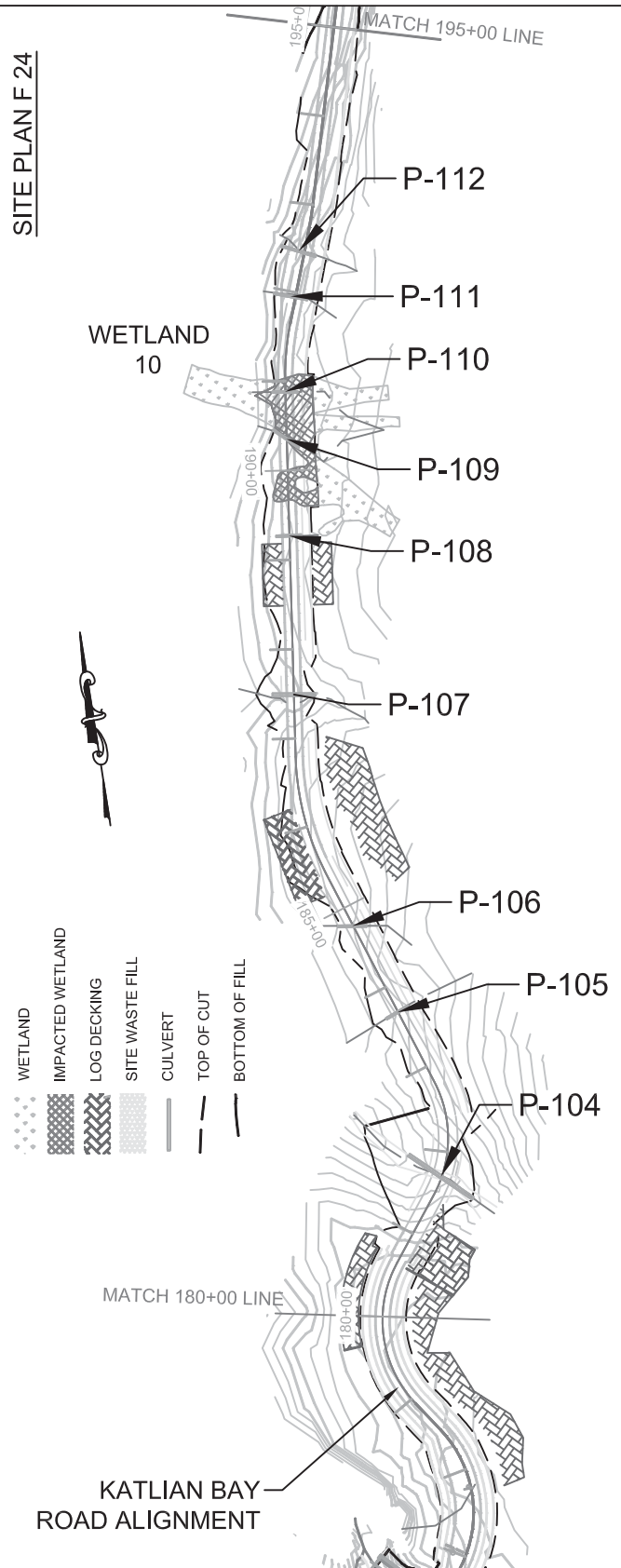
SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 13 OF 44  
 DATE: 12/11/2017

# SITE PLAN F 23



# SITE PLAN F 24



ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

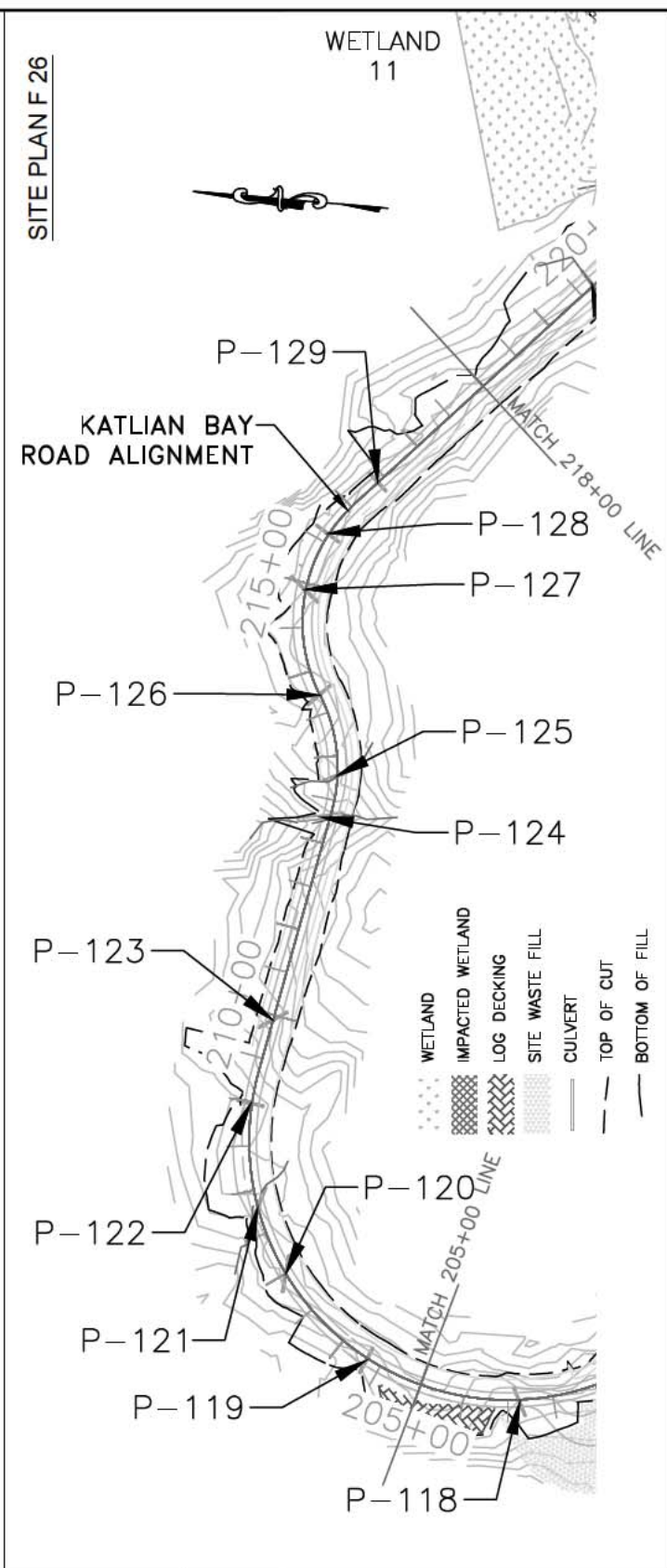
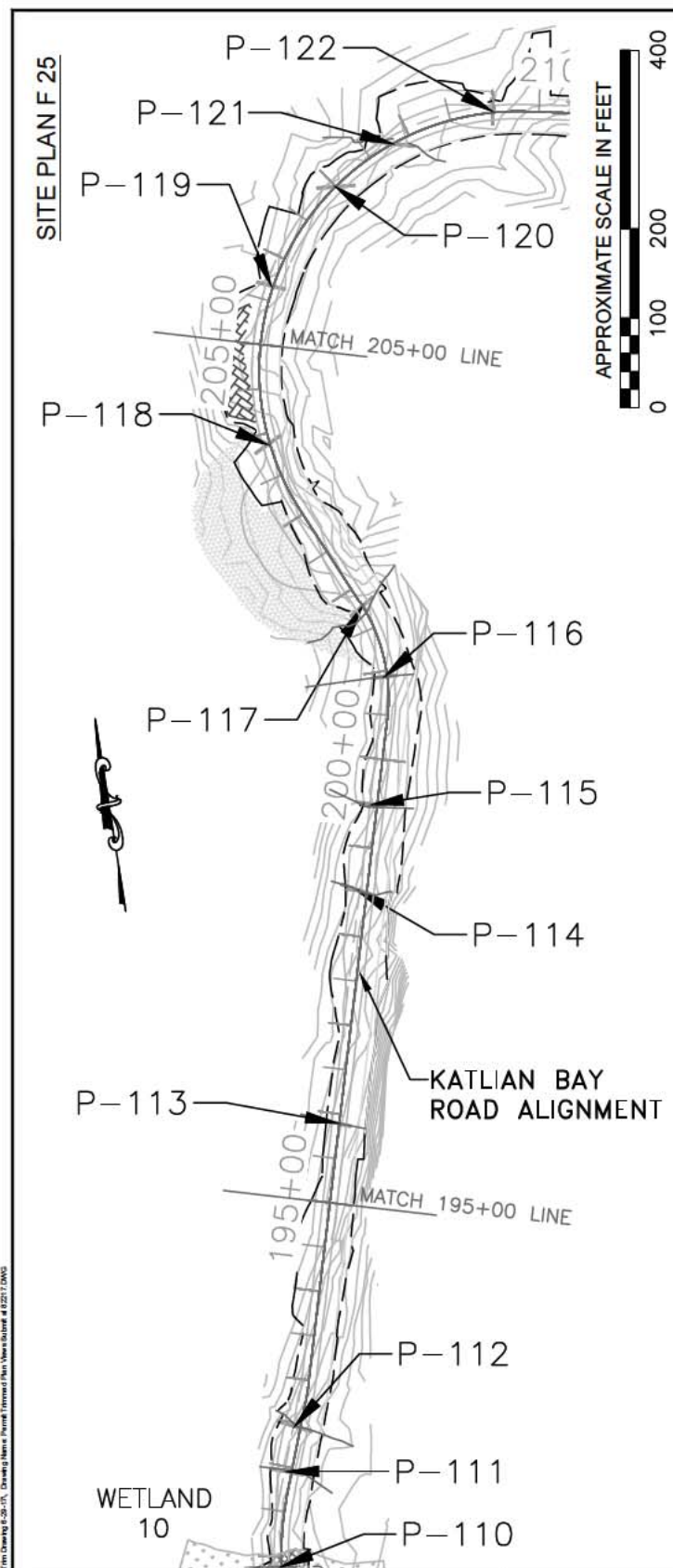
WATER BODY: KATLIAN BAY

## SITE PLAN

APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 14 OF 44  
 DATE: 12/11/2017



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

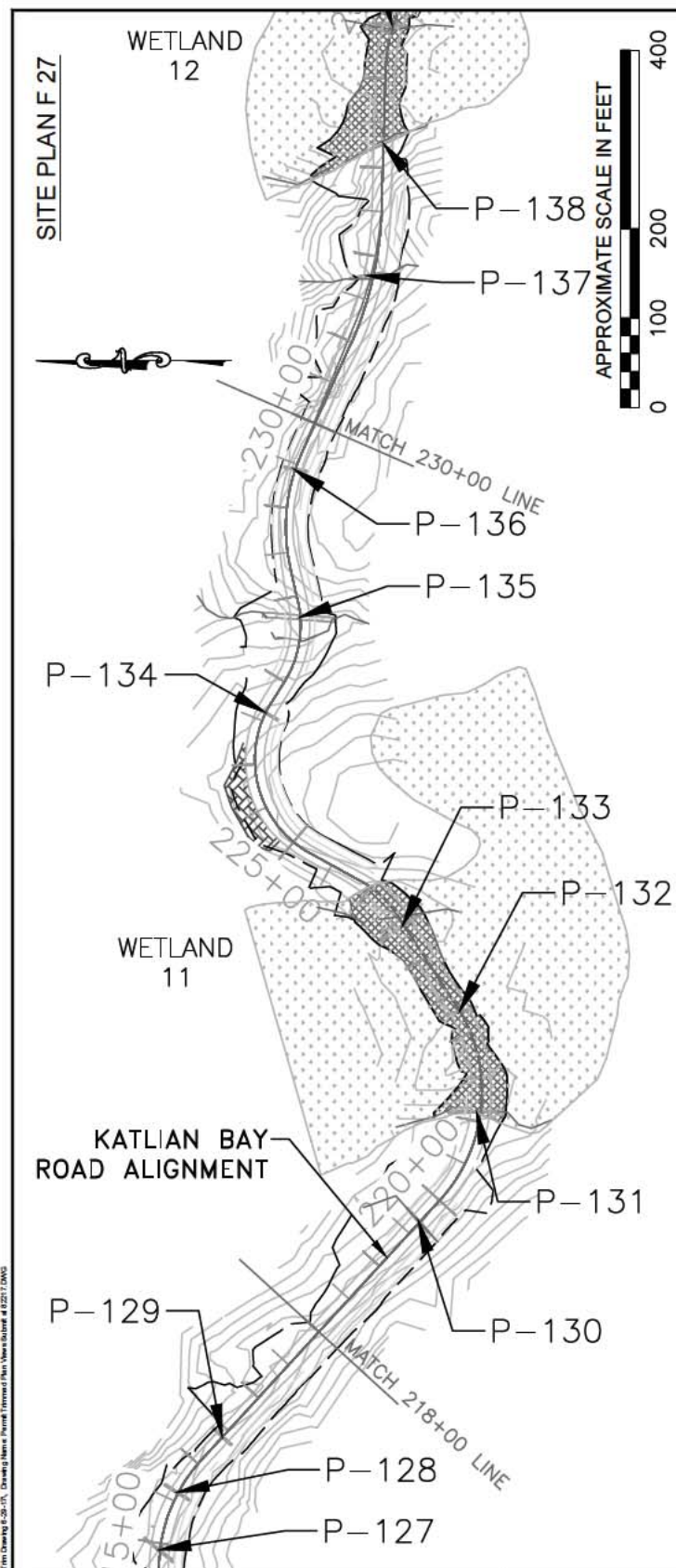
WATER BODY: KATLIAN BAY

## SITE PLAN

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 15 OF 44  
DATE: 10/02/2017



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

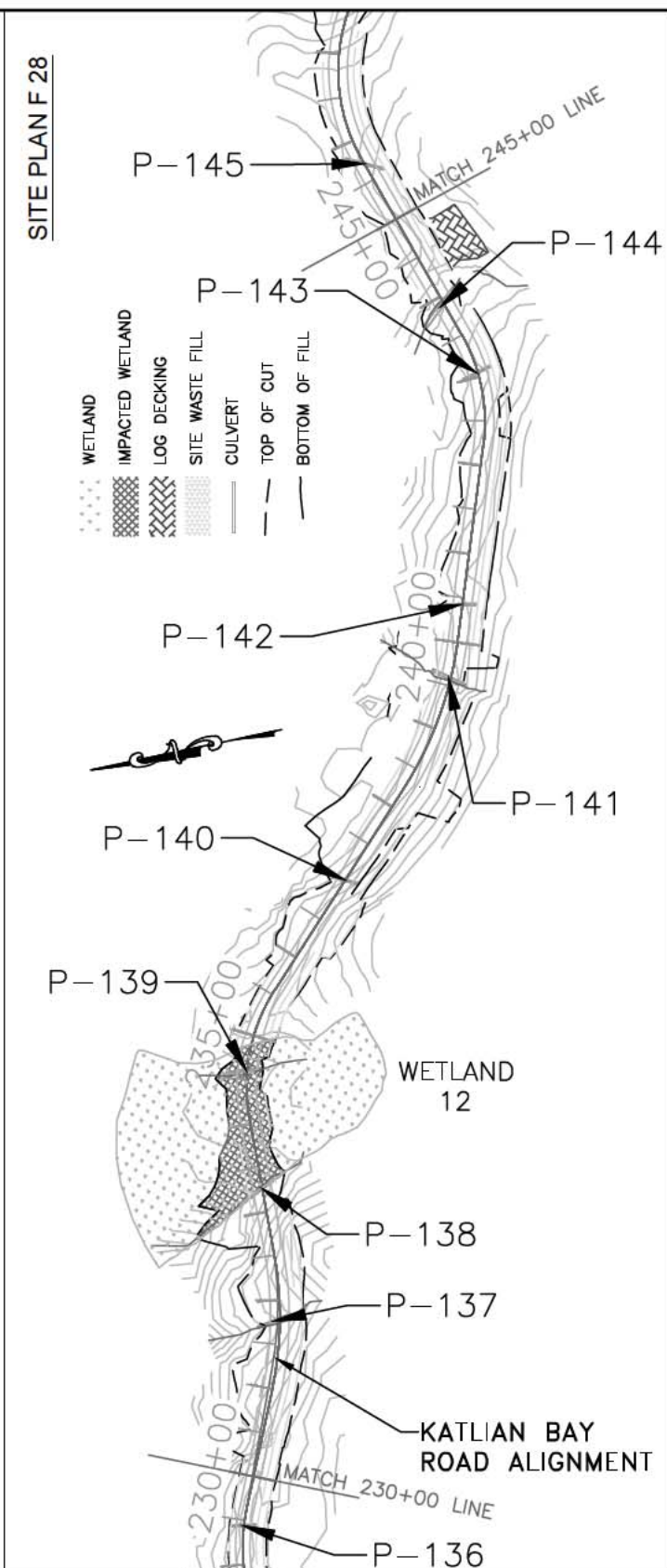
WATER BODY: KATLIAN BAY

## SITE PLAN

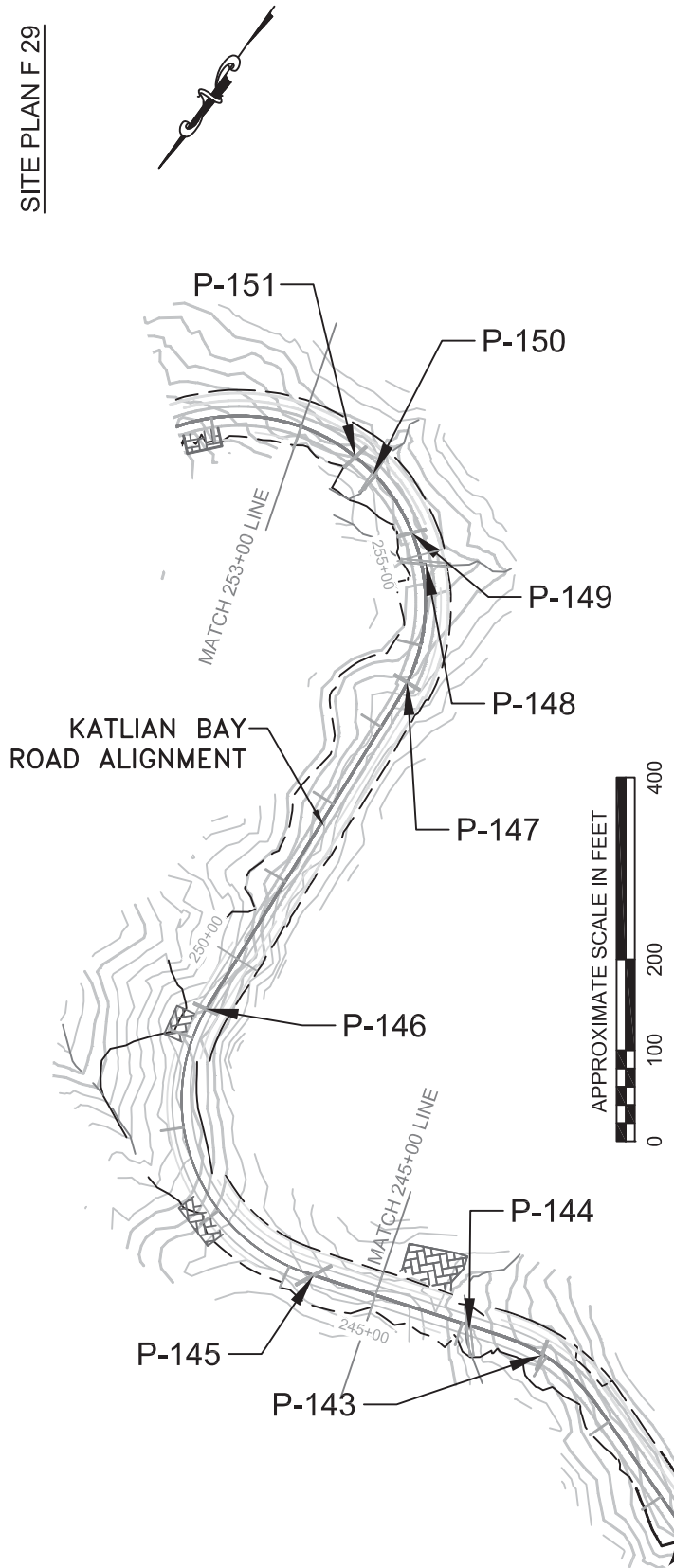
APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

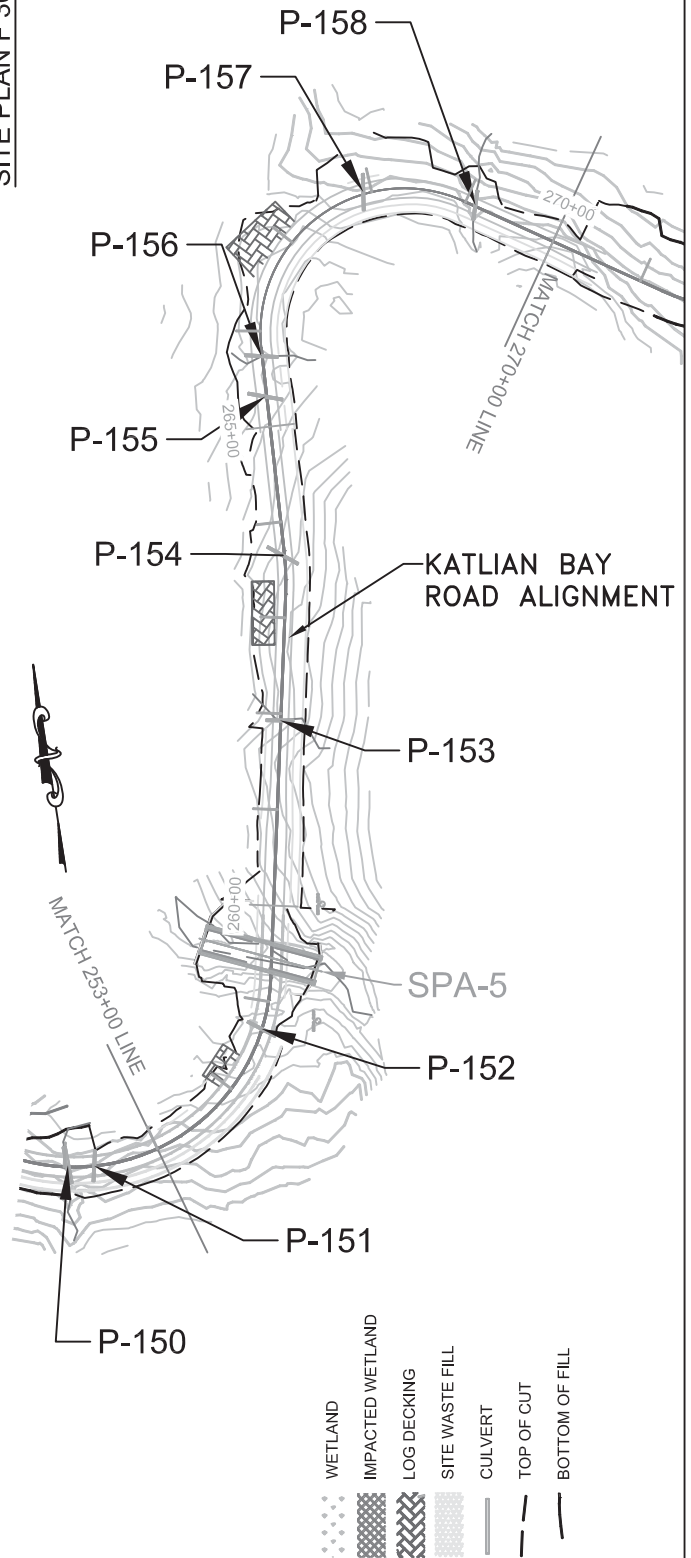
NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 16 OF 44  
DATE: 10/02/2017



# SITE PLAN F 29



# SITE PLAN F 30



ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

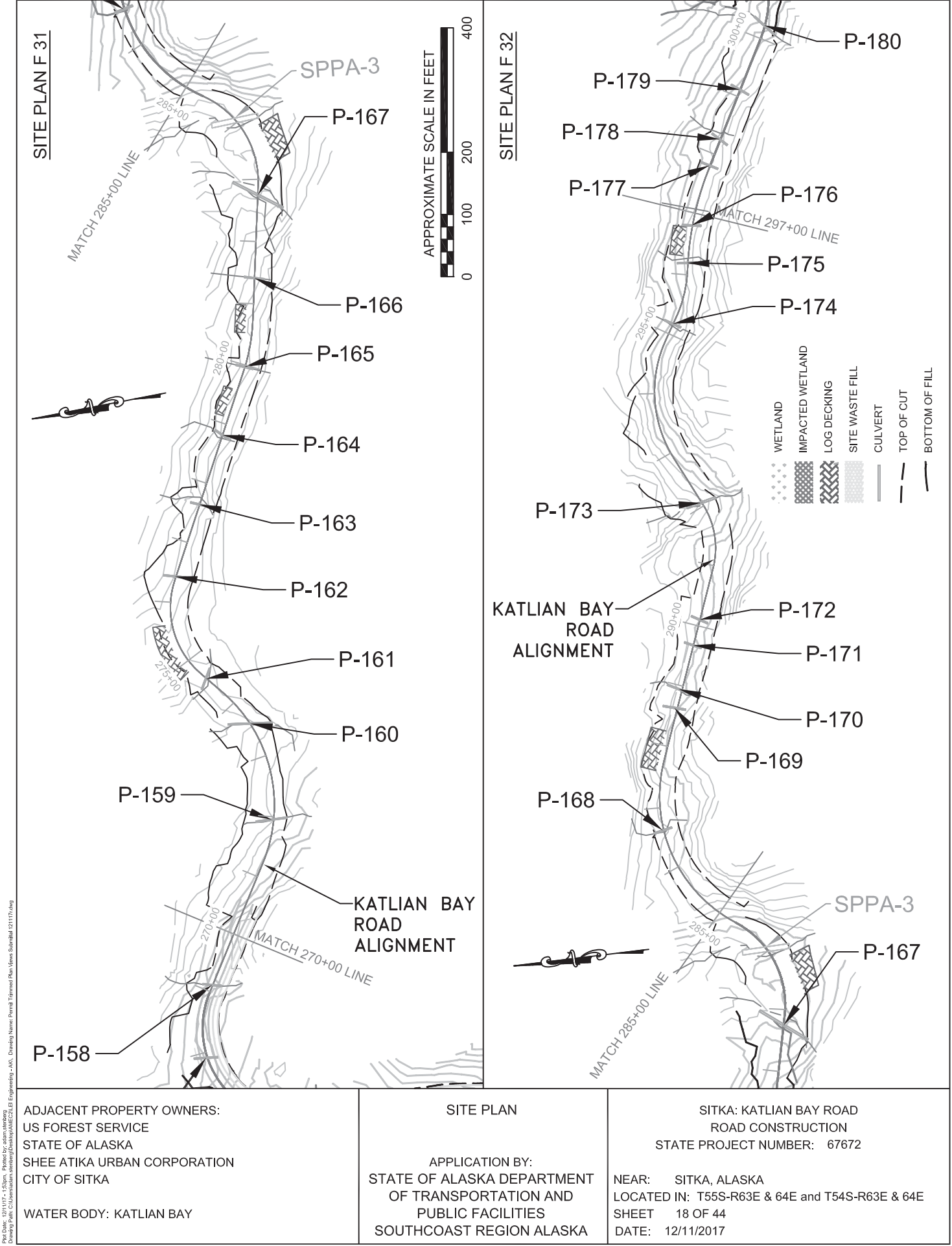
WATER BODY: KATLIAN BAY

## SITE PLAN

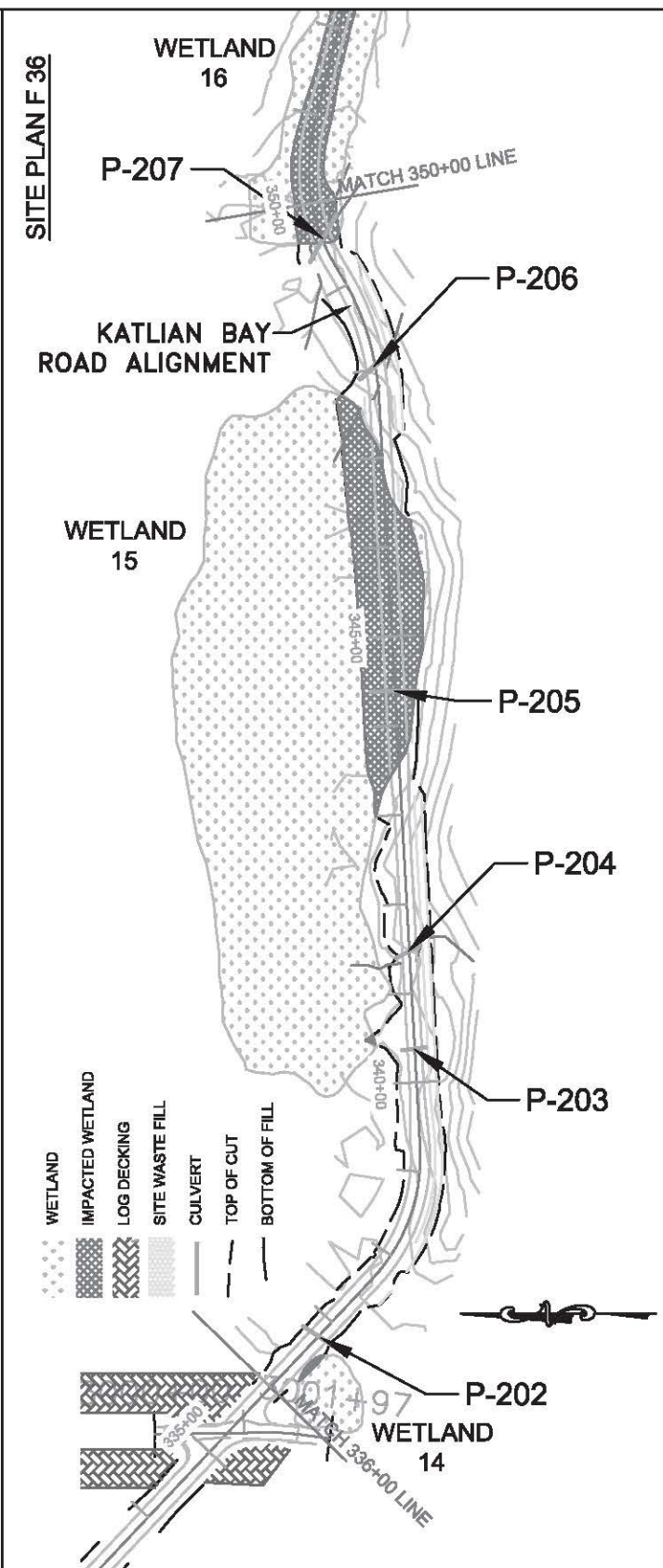
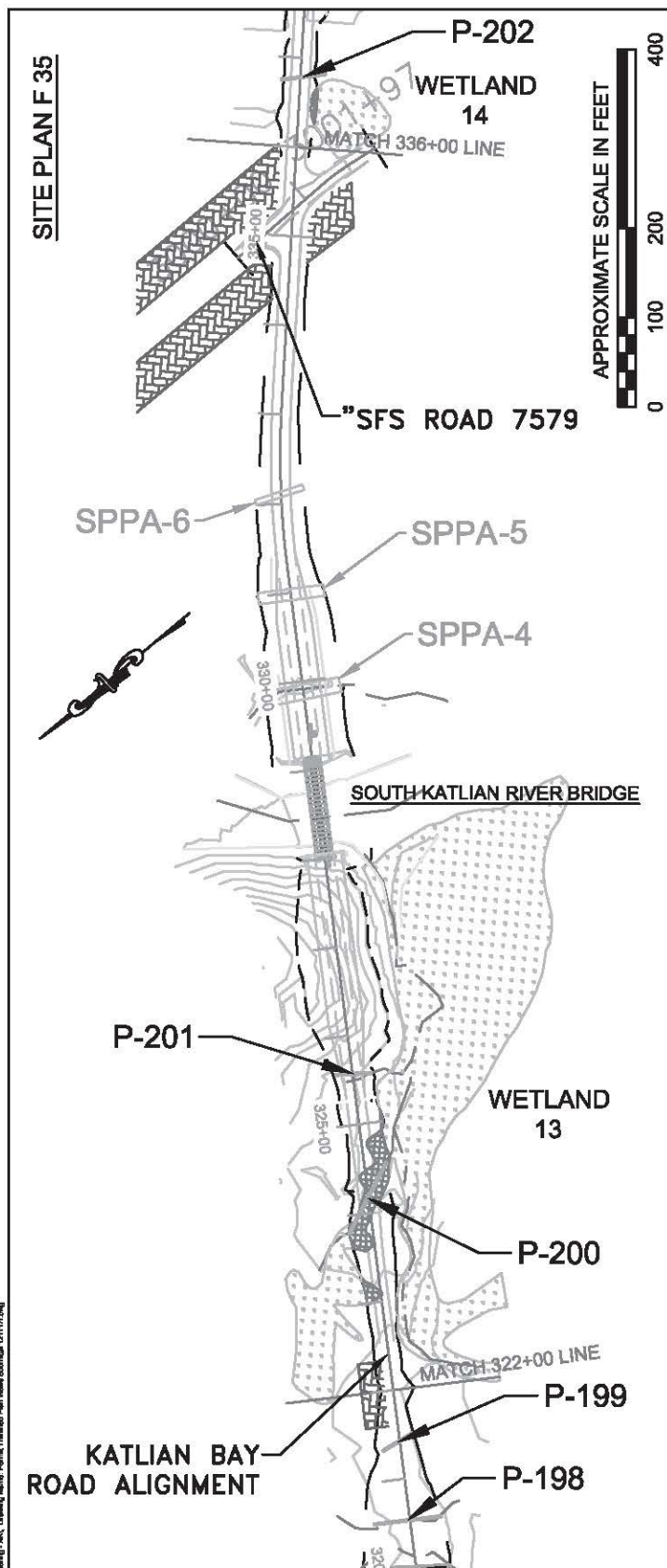
APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOAST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 17 OF 44  
 DATE: 12/11/2017







ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

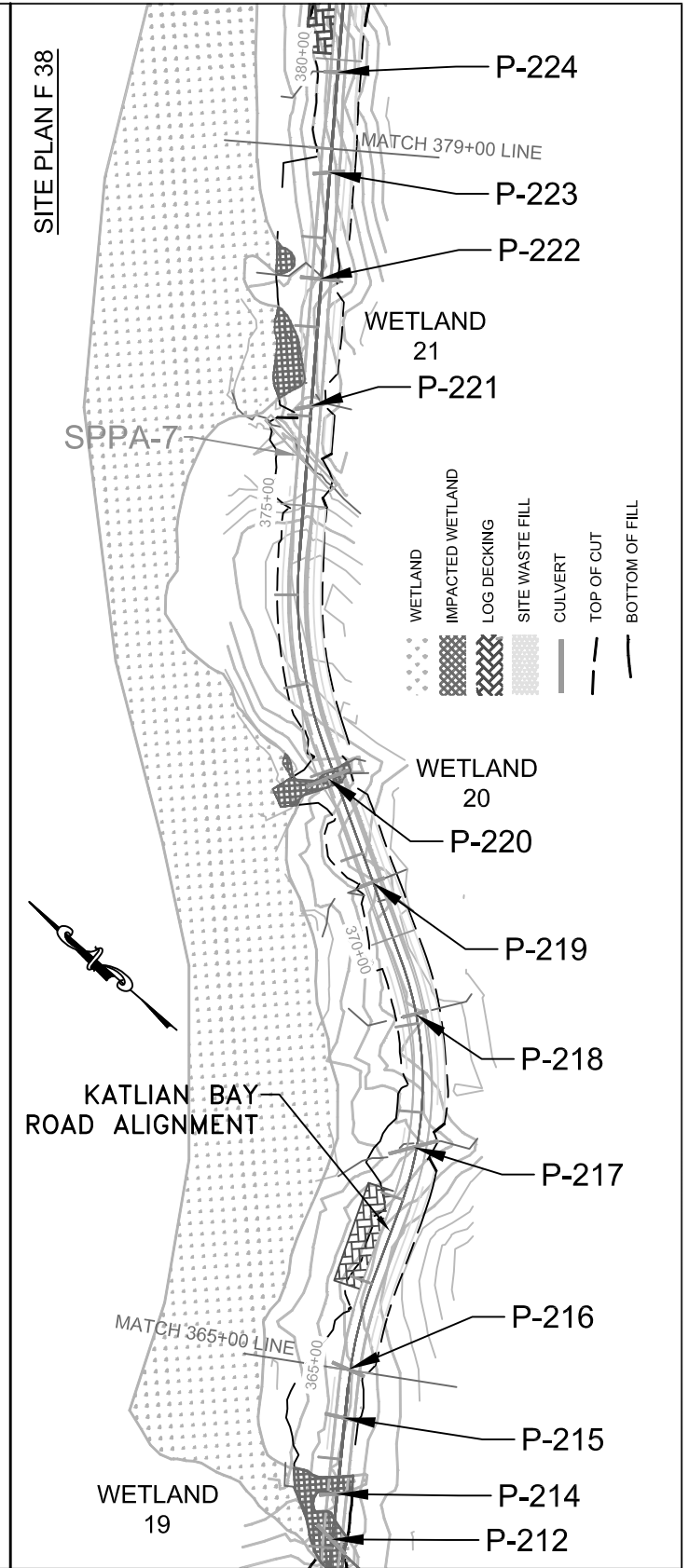
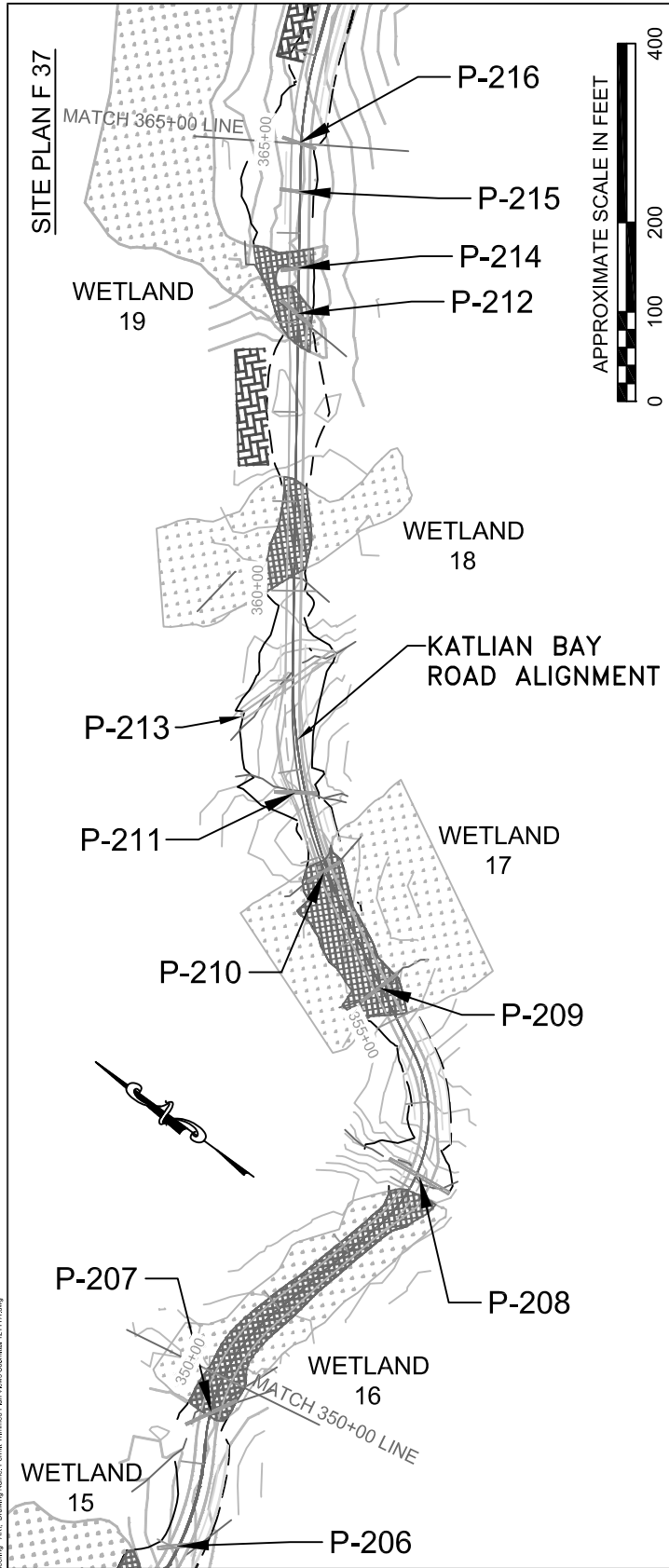
WATER BODY: KATLIAN BAY

## SITE PLAN

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 20 OF 44  
DATE: 12/11/2017



ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

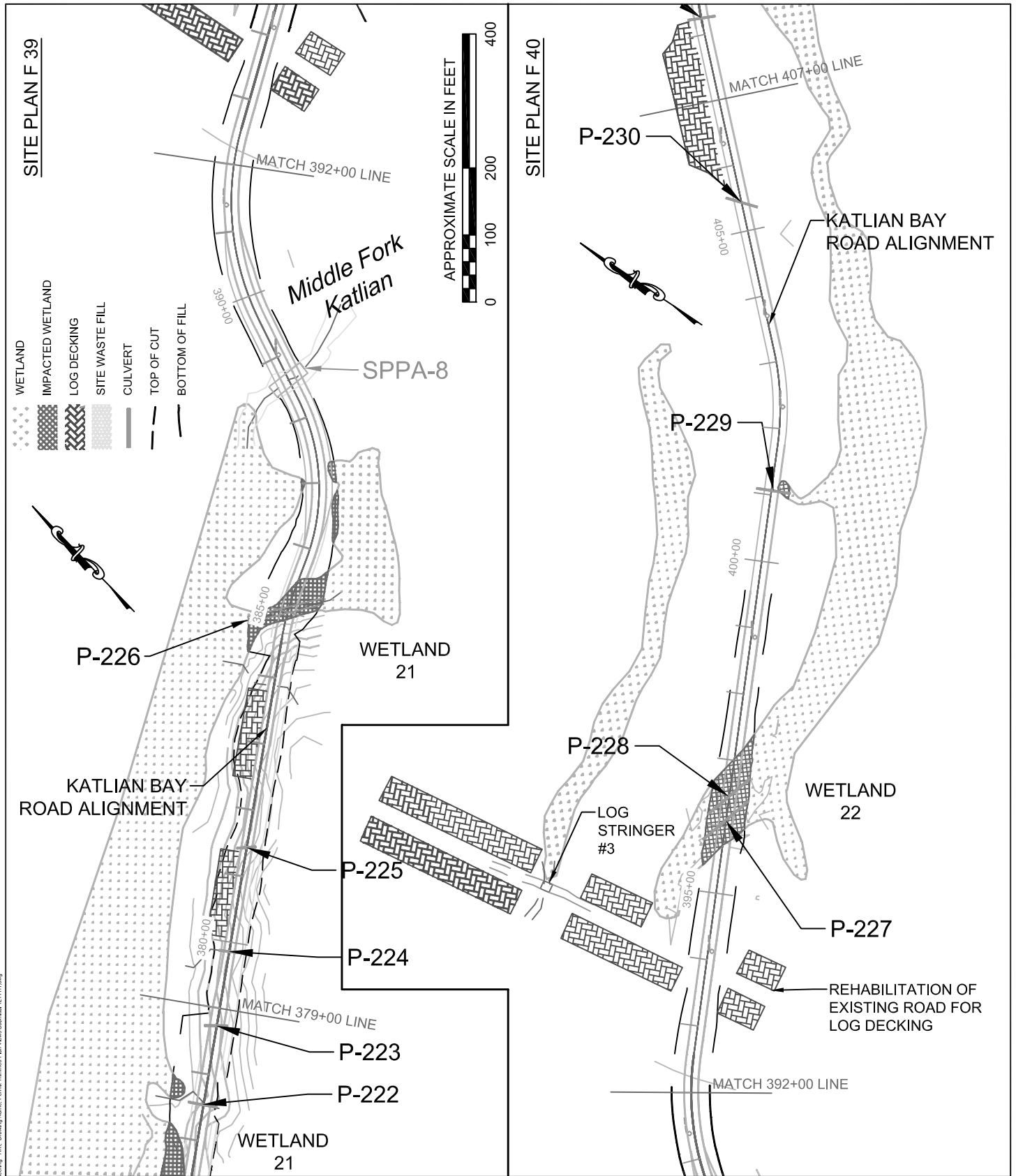
WATER BODY: KATLIAN BAY

#### SITE PLAN

APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOAST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 21 OF 44  
 DATE: 12/11/2017



ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

WATER BODY: KATLIAN BAY

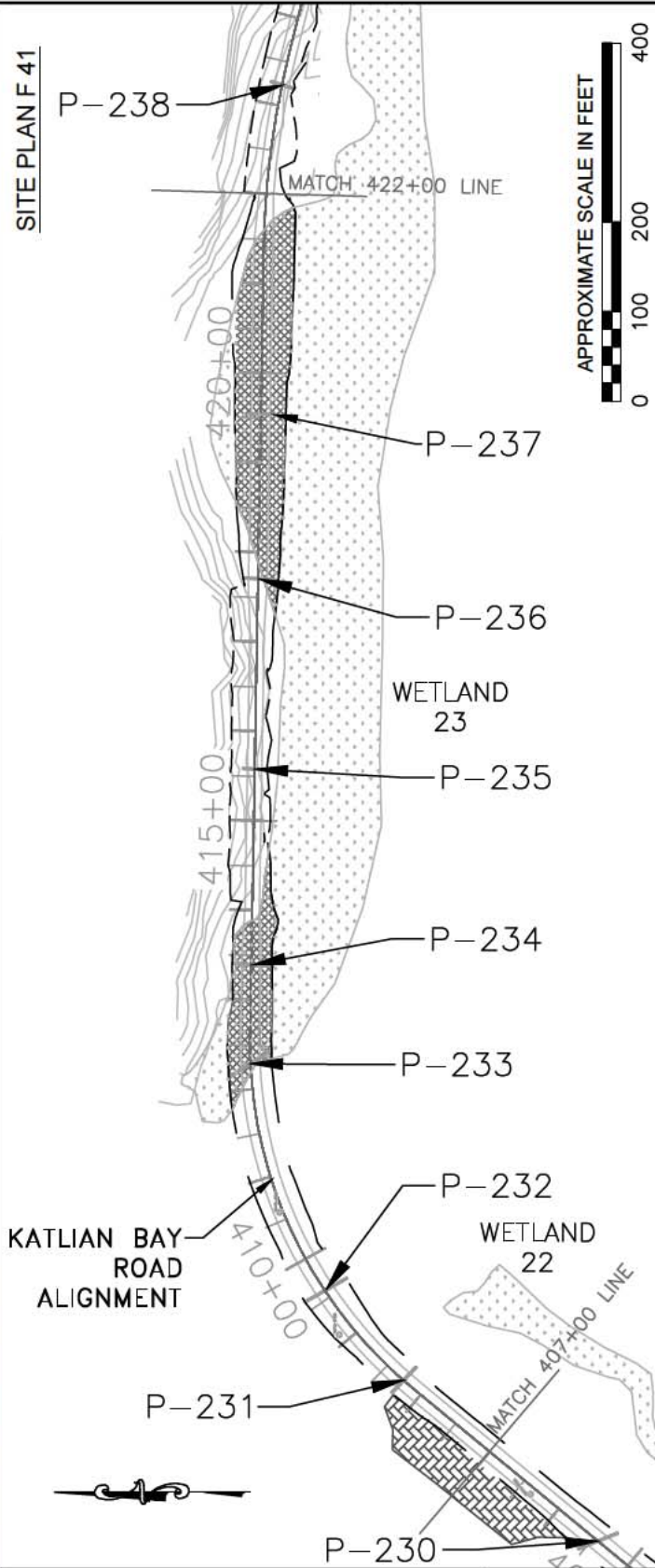
#### SITE PLAN

APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOAST REGION ALASKA

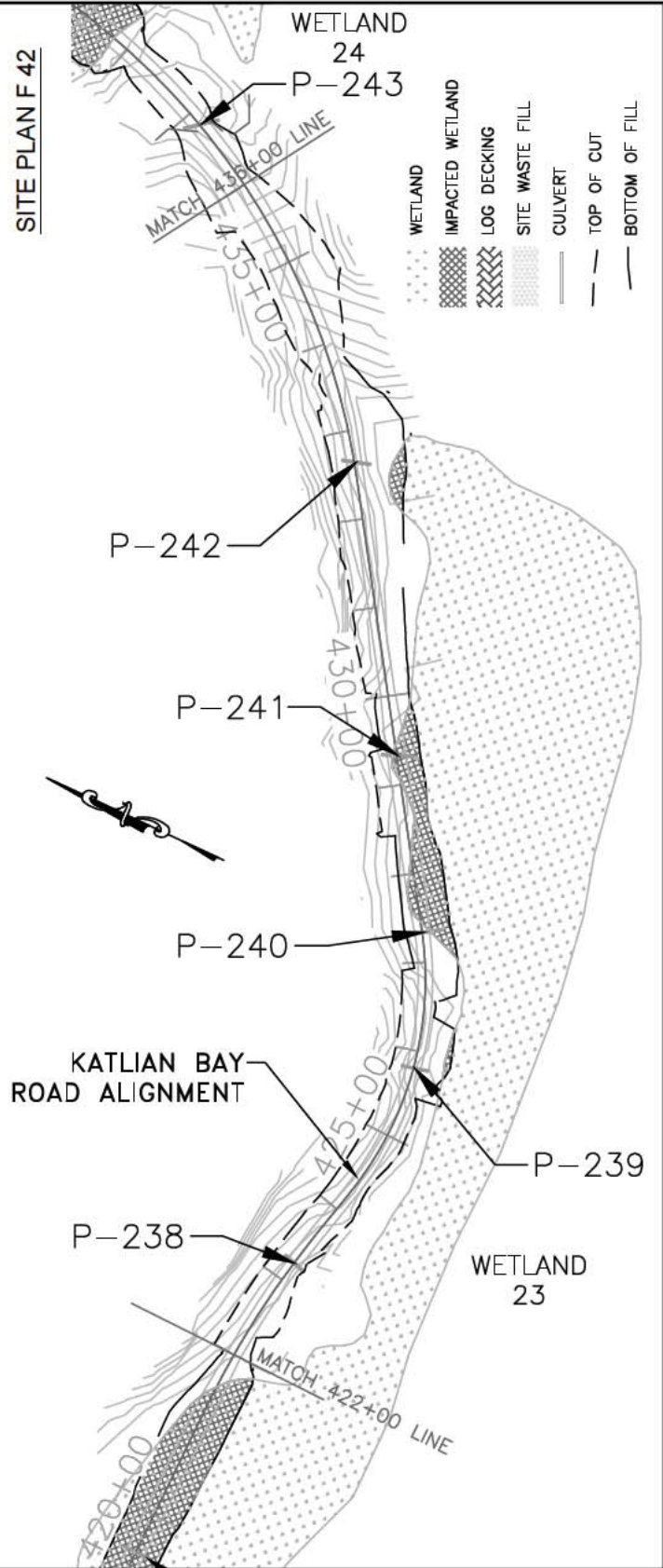
SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 22 OF 44  
 DATE: 12/11/2017

# SITE PLAN F 41



# SITE PLAN F 42



ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

WATER BODY: KATLIAN BAY

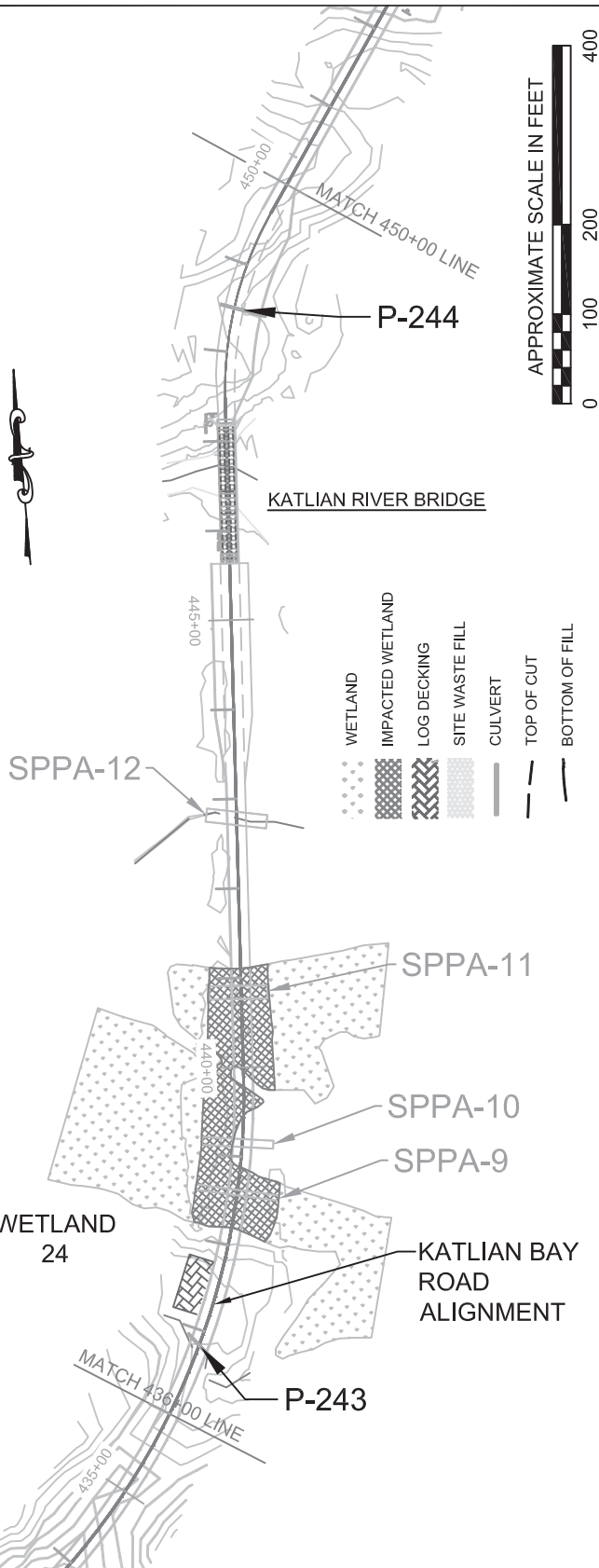
## SITE PLAN

APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOAST REGION ALASKA

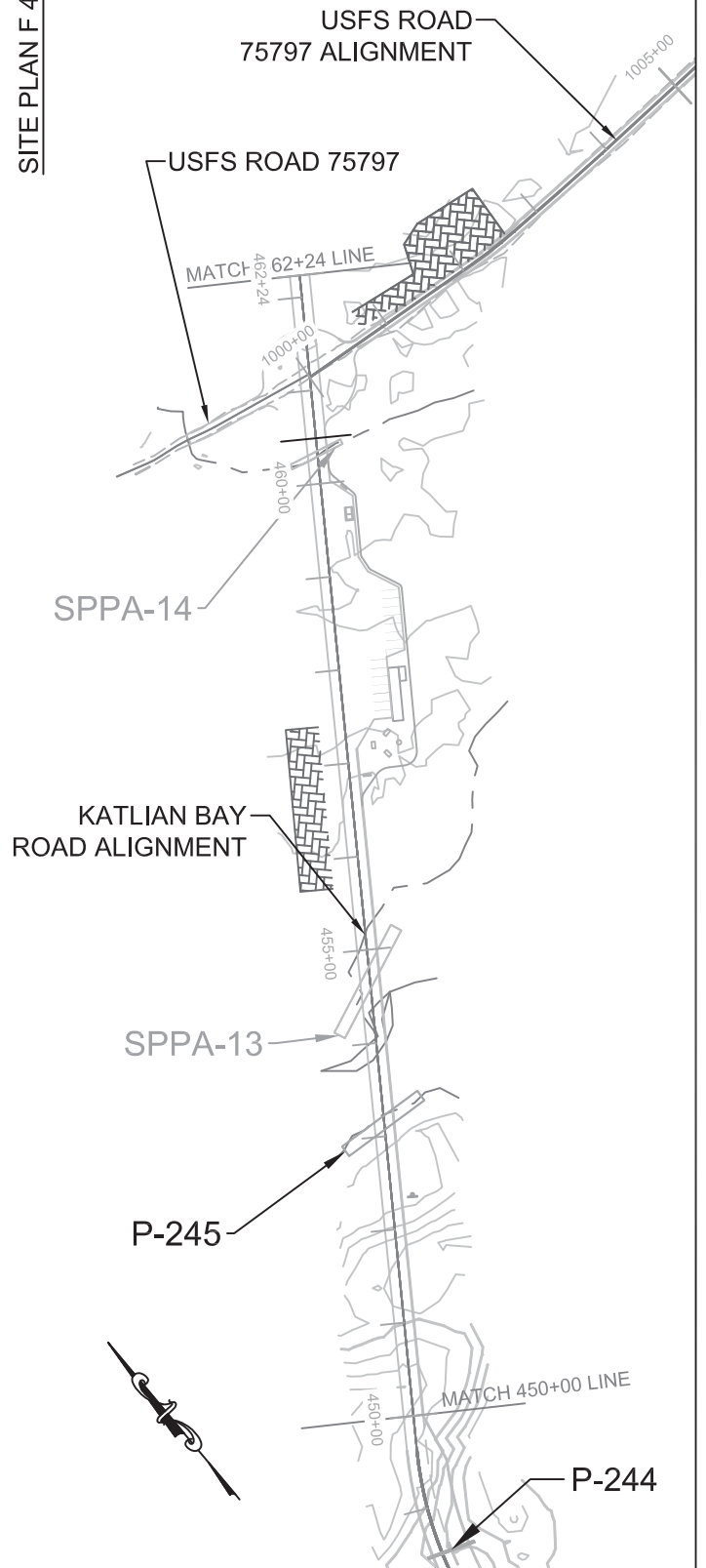
SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 23 OF 44  
 DATE: 10/02/2017

# SITE PLAN F 43



# SITE PLAN F 44



ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA

WATER BODY: KATLIAN BAY

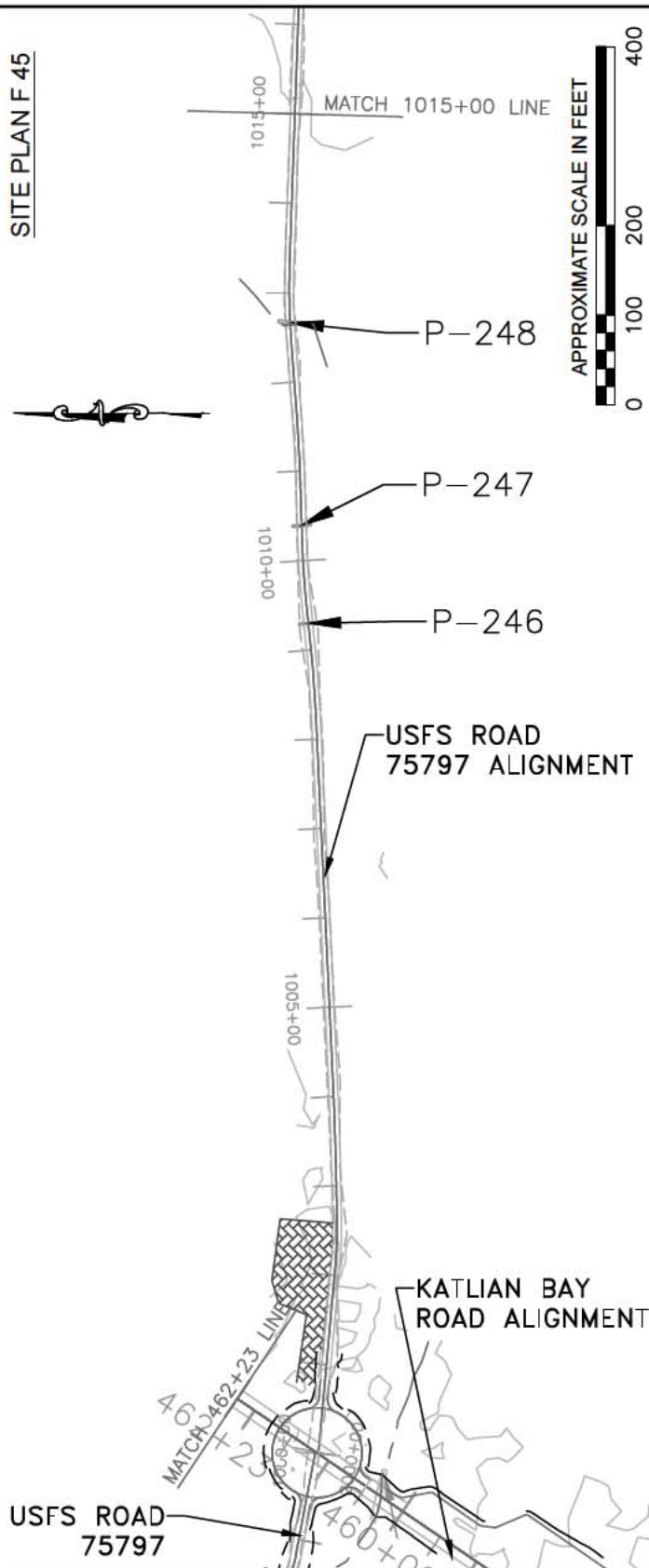
## SITE PLAN

APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOST REGION ALASKA

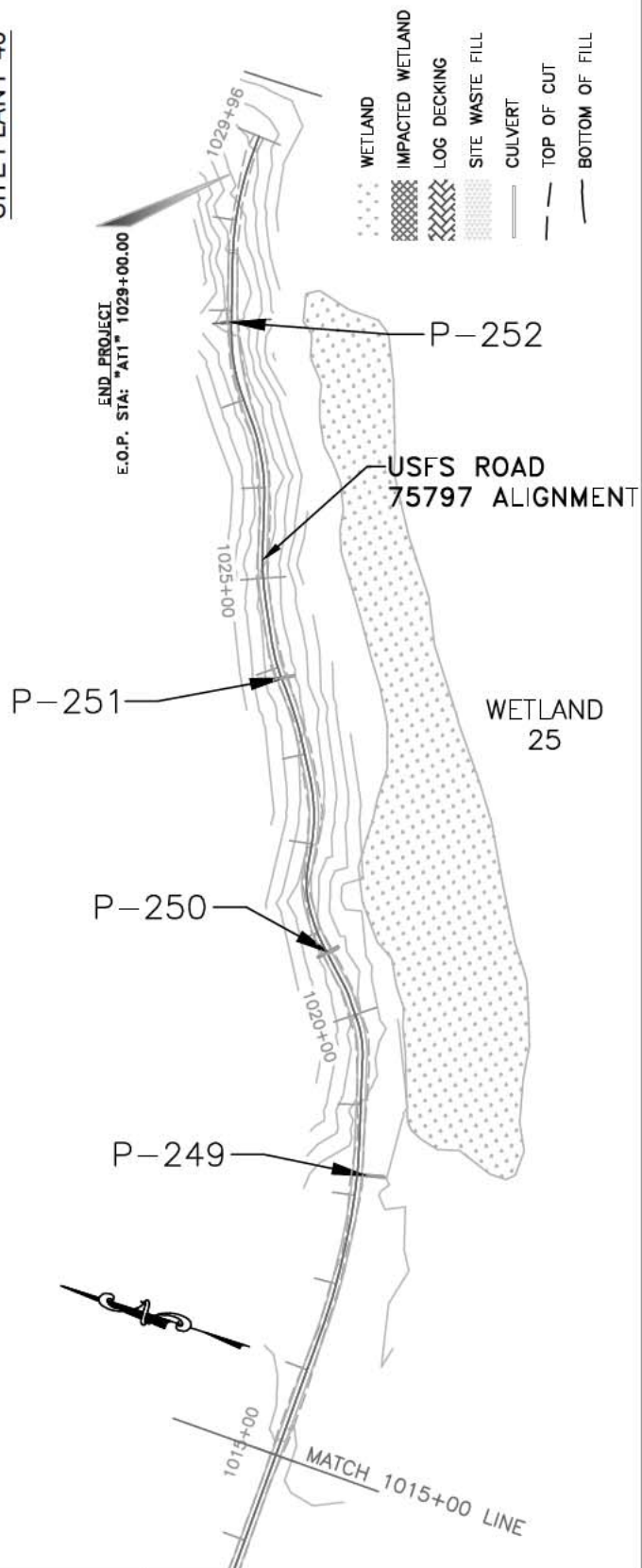
SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 24 OF 44  
 DATE: 12/11/2017

**SITE PLAN F 45**



**SITE PLAN F 46**



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

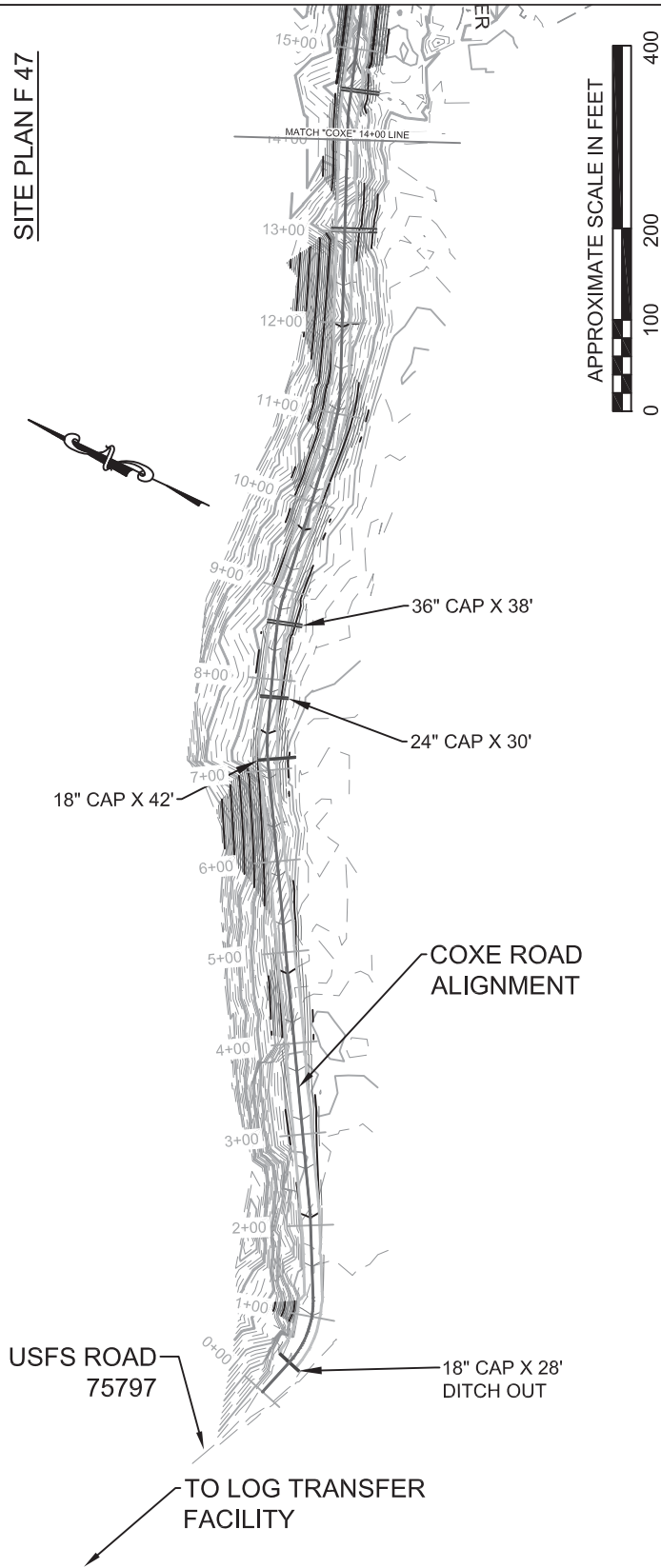
## SITE PLAN

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

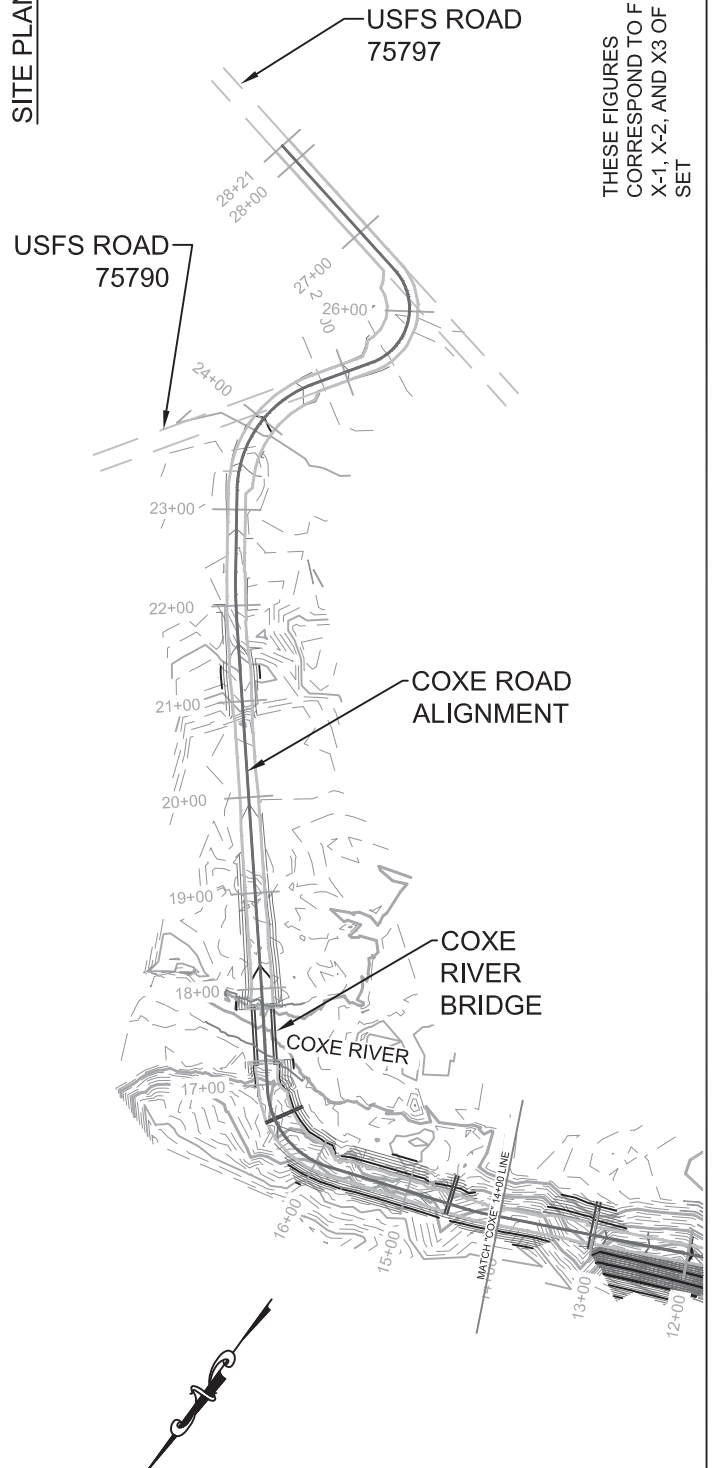
SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 25 OF 44  
DATE: 10/02/2017

# SITE PLAN F 47



# SITE PLAN F 48



THESE FIGURES  
CORRESPOND TO FIGURES  
X-1, X-2, AND X3 OF THE PLAN  
SET

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

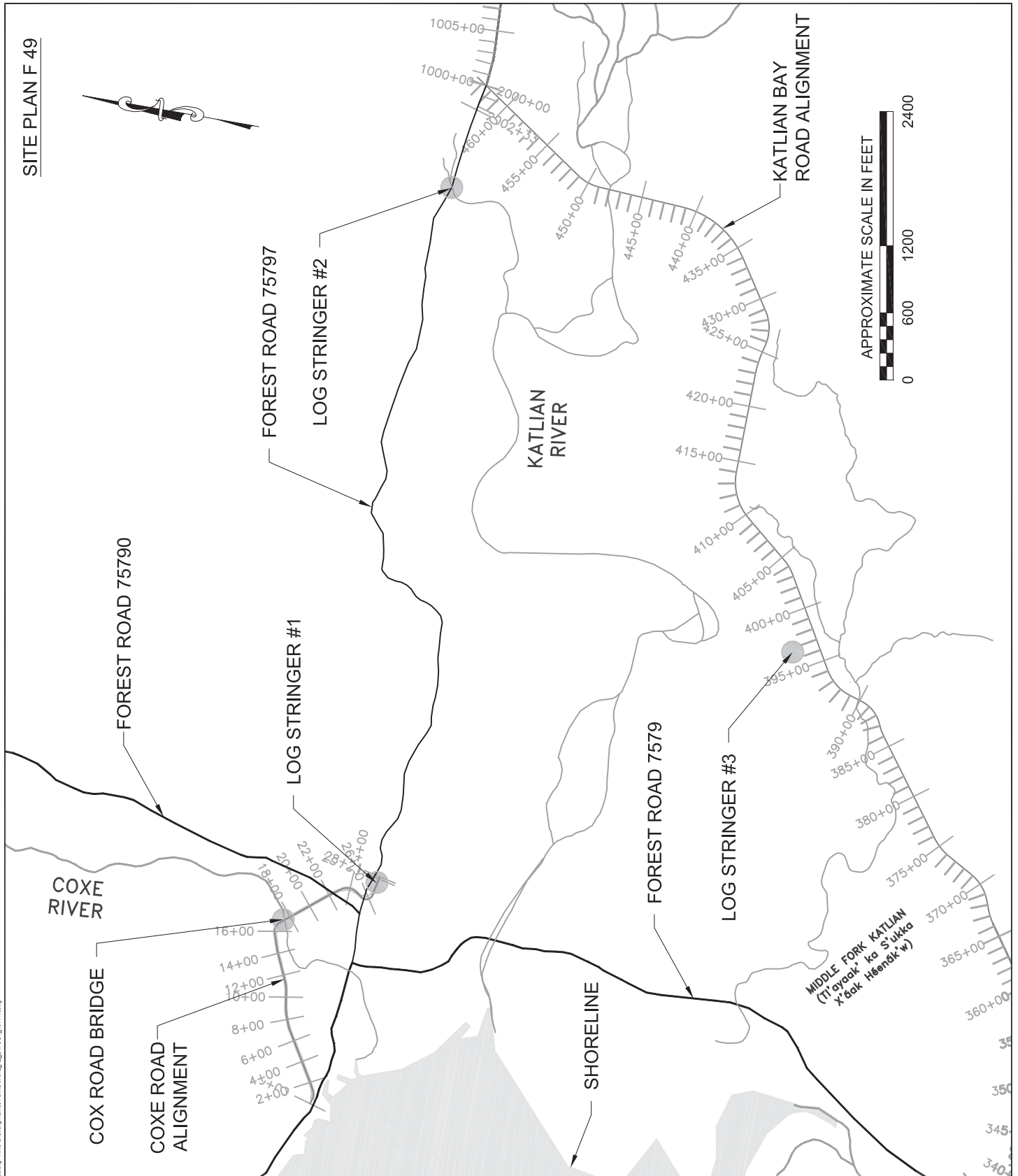
## SITE PLAN

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 26 OF 44  
DATE: 9/29/2017

# SITE PLAN F 49



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

## SITE PLAN

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

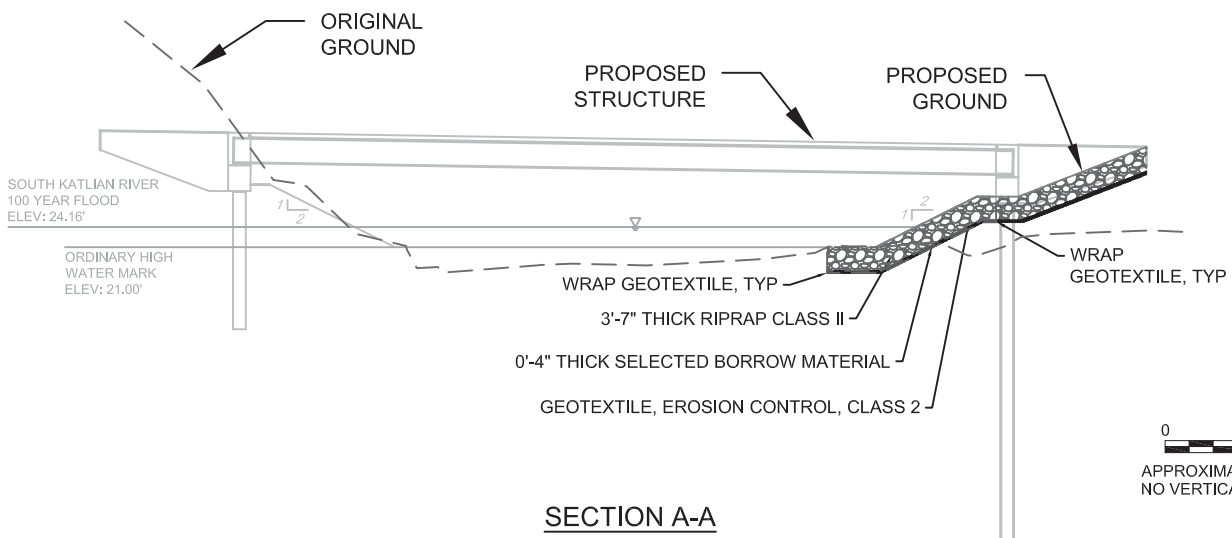
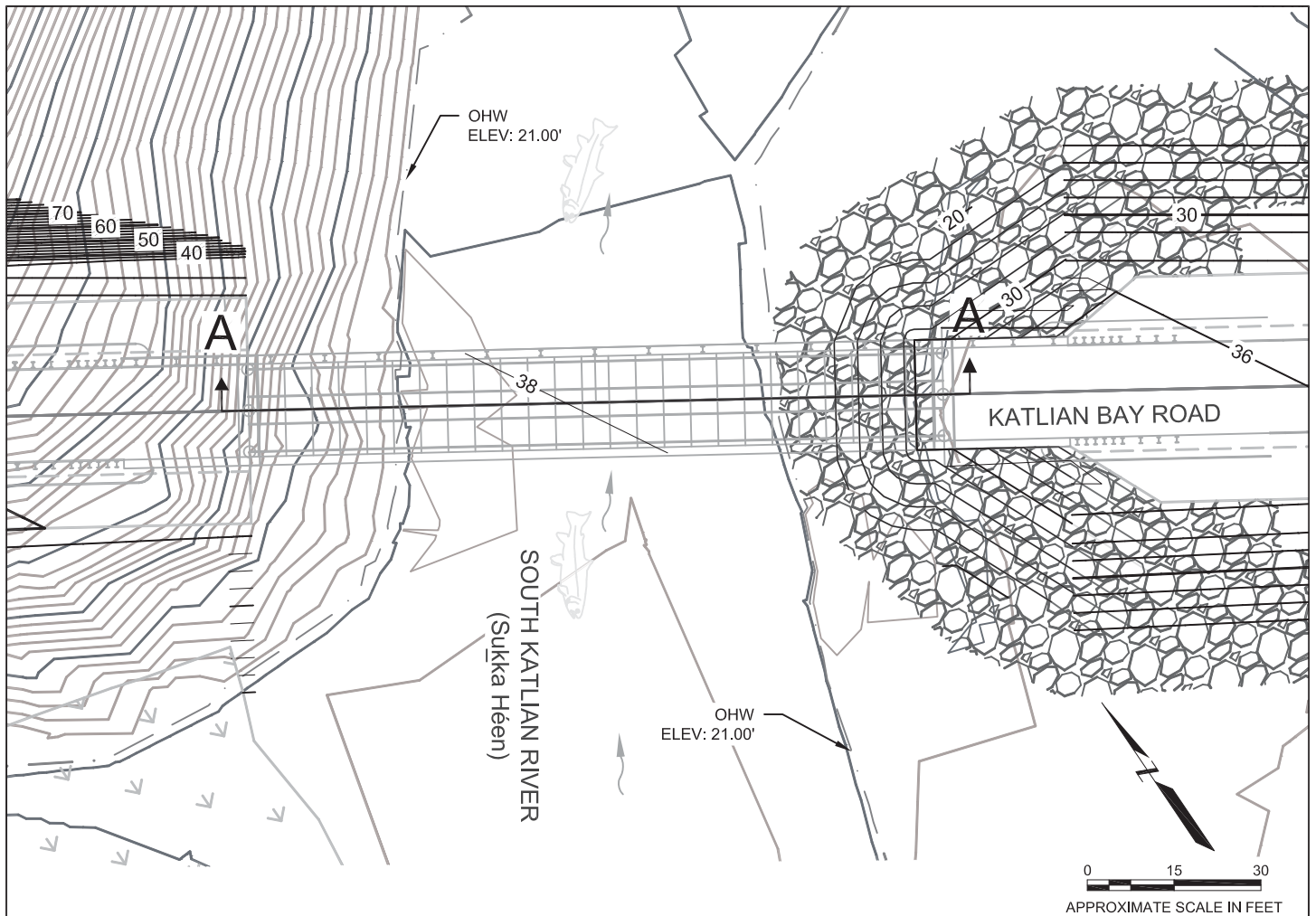
SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 27 OF 44  
DATE: 10/11/2017



NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 29 OF 44  
DATE: 10/02/2017





0 15 30  
APPROXIMATE SCALE IN FEET  
NO VERTICAL EXAGGERATION

### SECTION A-A

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

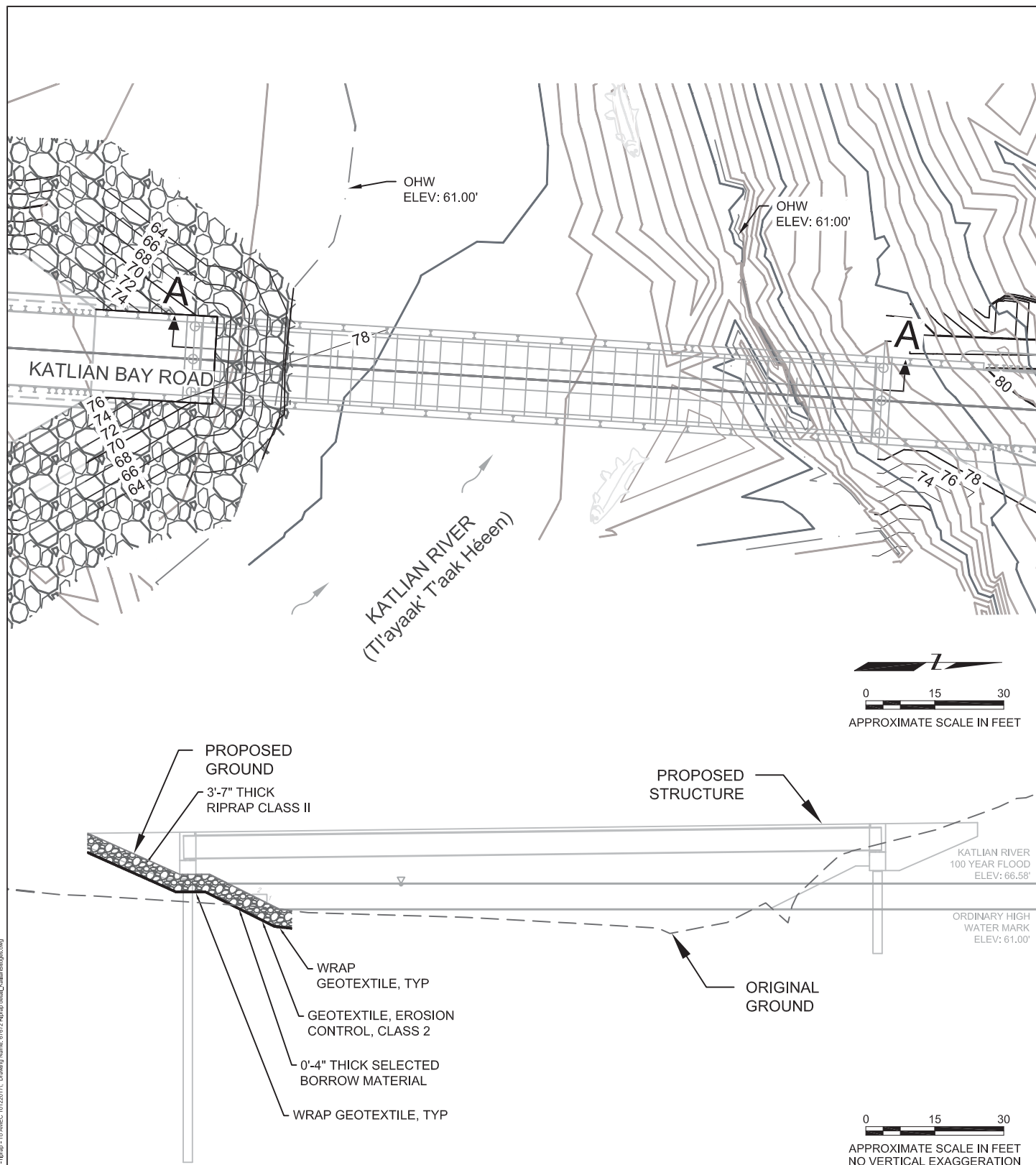
WATER BODY: KATLIAN BAY

SOUTH KATLIAN RIVER BRIDGE

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 31 OF 44  
DATE: 10/18/2017



SECTION A-A

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

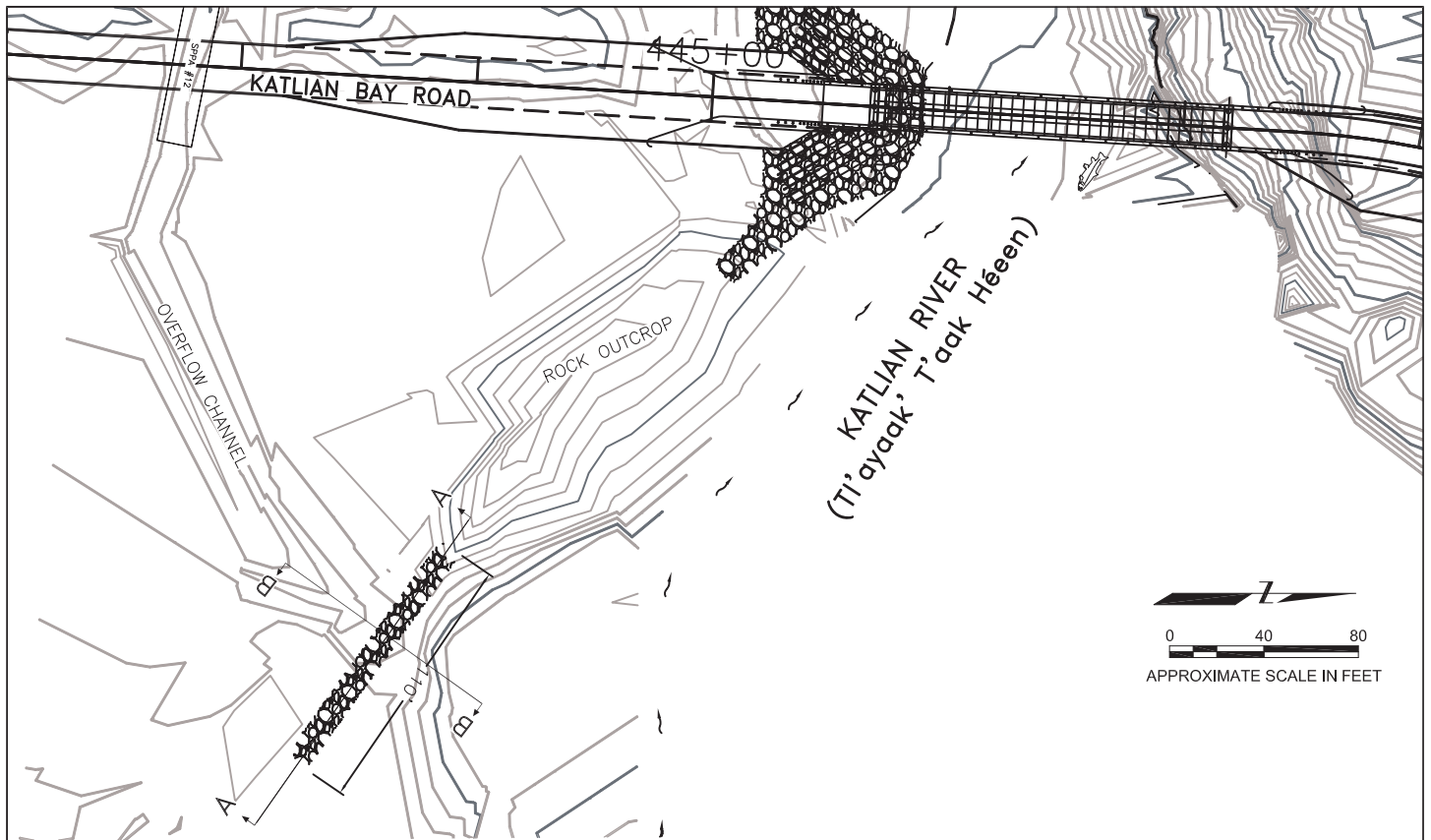
WATER BODY: KATLIAN BAY

KATLIAN RIVER BRIDGE

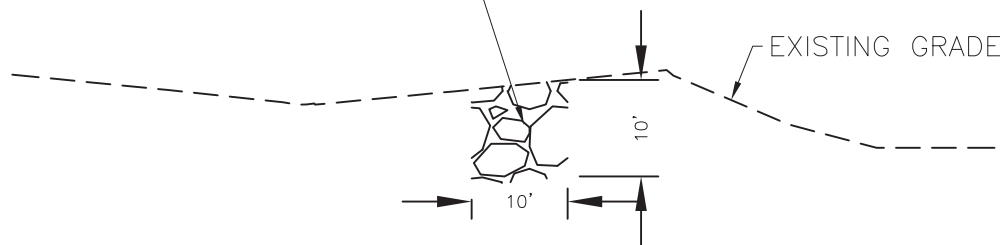
APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOAST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 32 OF 44  
DATE: 10/18/2017



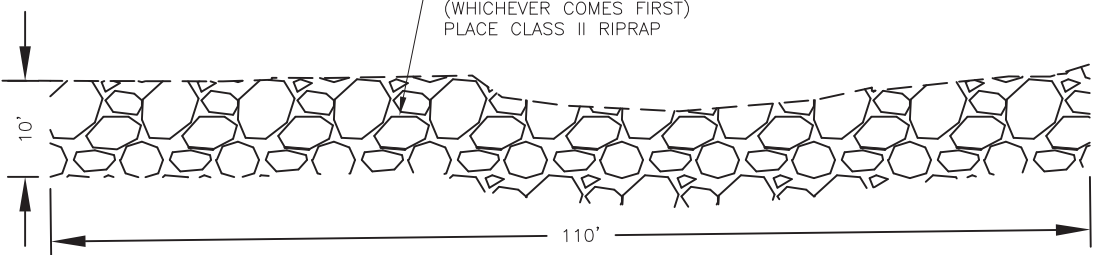
EXCAVATE 10' DEEP OR TO BEDROCK  
(WHICHEVER COMES FIRST)  
PLACE CLASS II RIPRAP



SECTION B-B

EXISTING GRADE

EXCAVATE 10' DEEP OR TO BEDROCK  
(WHICHEVER COMES FIRST)  
PLACE CLASS II RIPRAP



SECTION A-A

0 10 20  
APPROXIMATE SCALE IN FEET  
NO VERTICAL EXAGGERATION

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

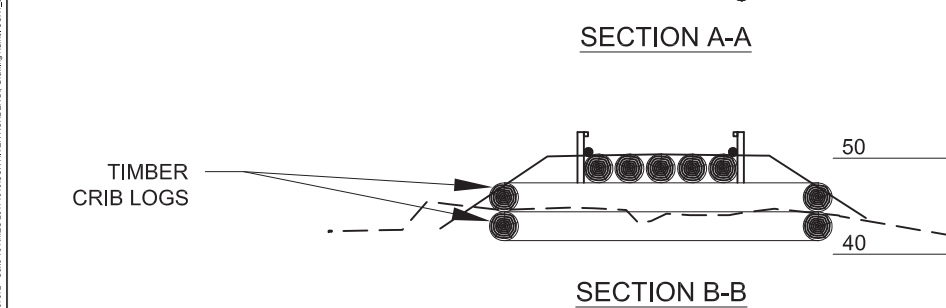
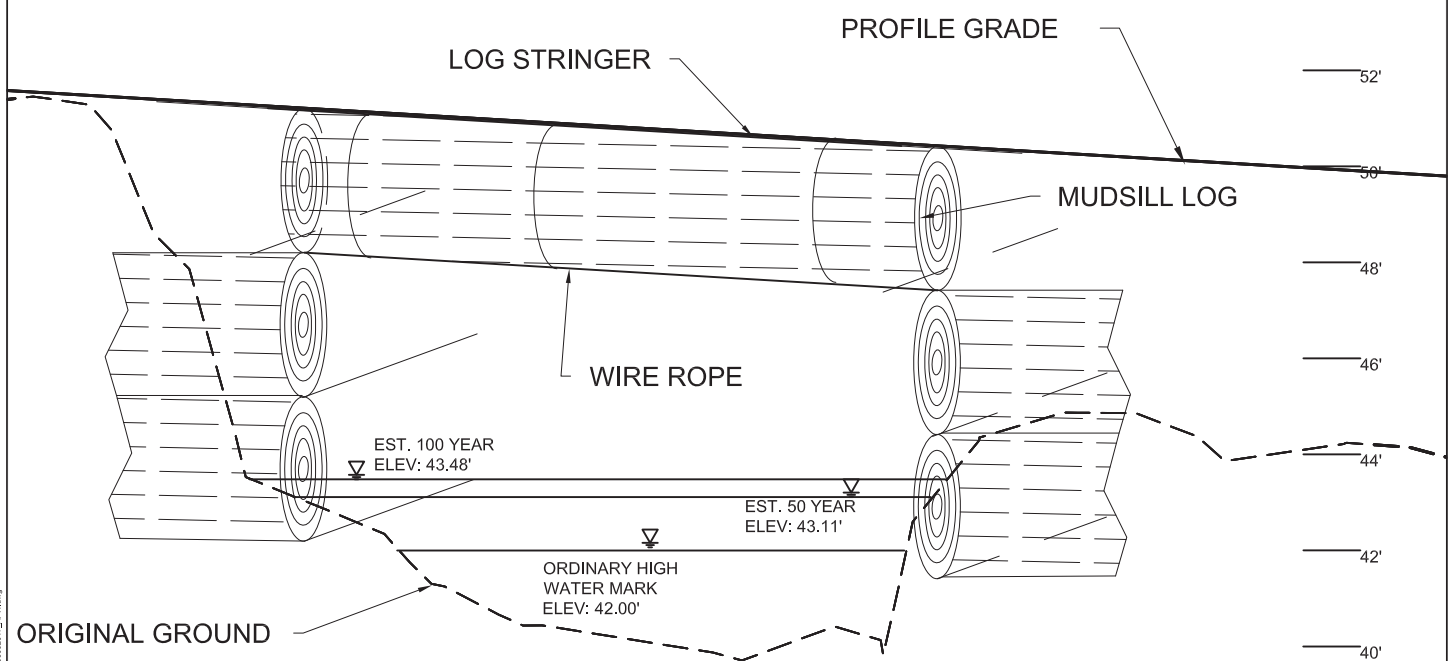
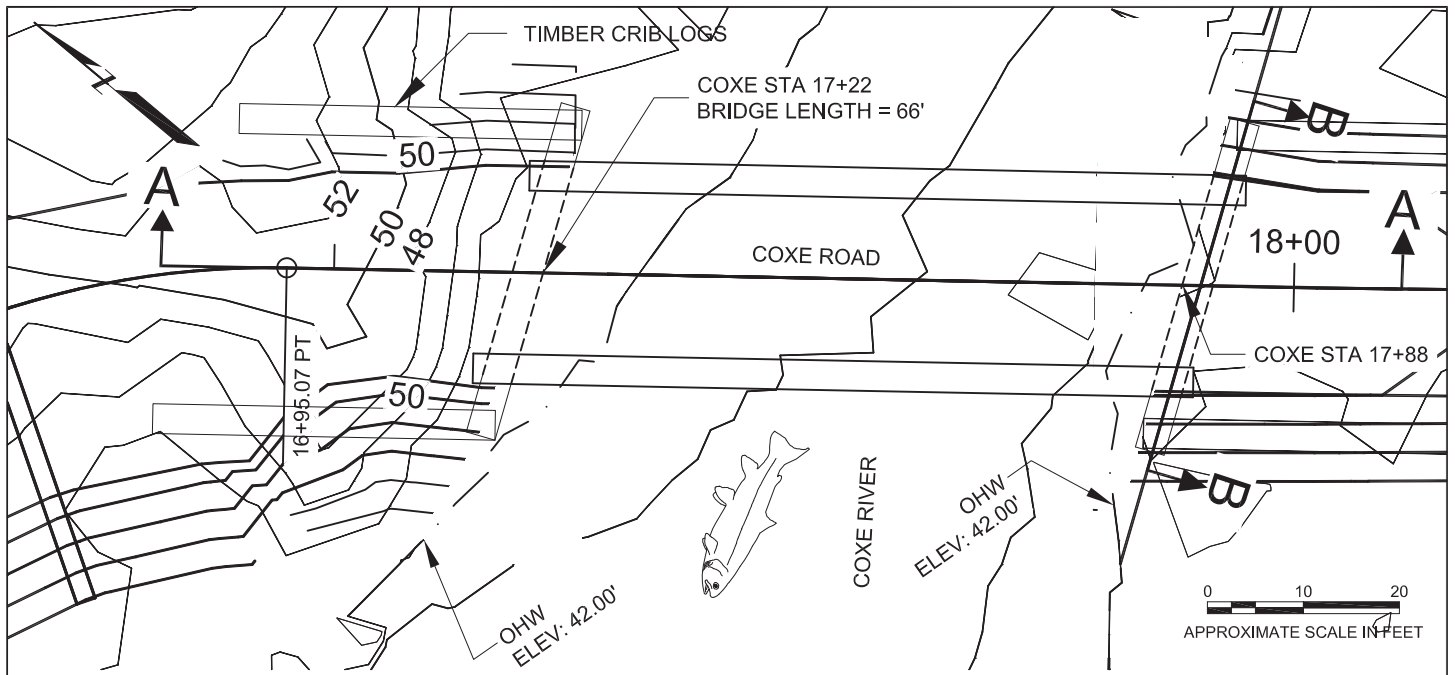
WATER BODY: KATLIAN BAY

KATLIAN OVERFLOW  
RIPRAP DETAIL

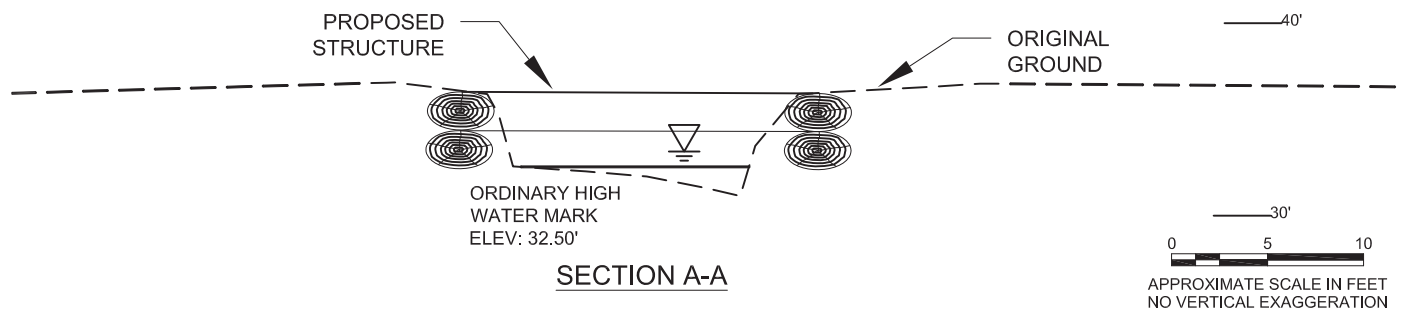
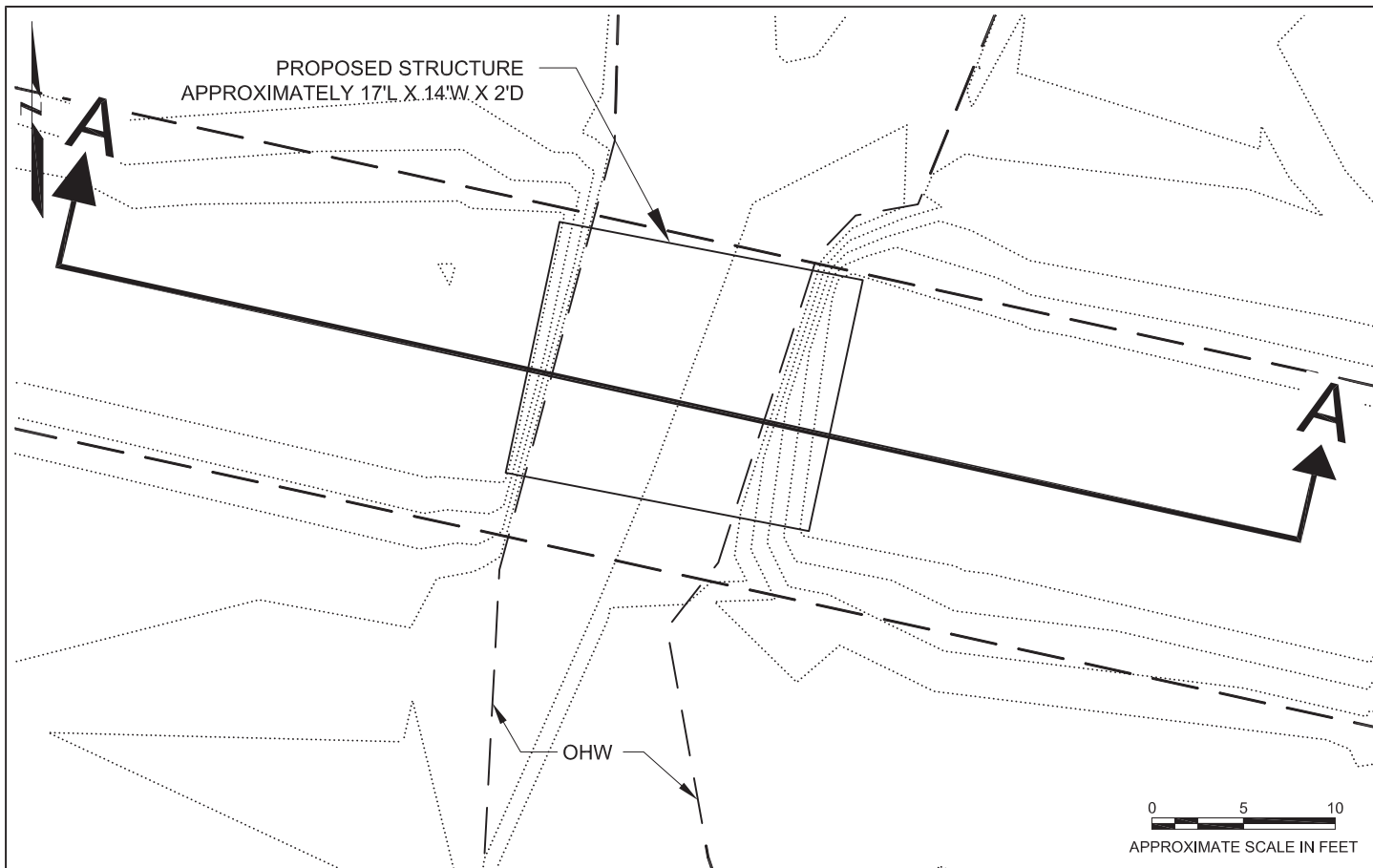
APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 33 OF 44  
DATE: 10/13/2017



|                                                                                                                                                              |                                                                                                                                                            |                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>ADJACENT PROPERTY OWNERS:<br/>US FOREST SERVICE<br/>STATE OF ALASKA<br/>SHEE ATIKA URBAN CORPORATION<br/>CITY OF SITKA</p> <p>WATER BODY: KATLIAN BAY</p> | <p>COXE RIVER BRIDGE</p> <p>APPLICATION BY:<br/>STATE OF ALASKA DEPARTMENT<br/>OF TRANSPORTATION AND<br/>PUBLIC FACILITIES<br/>SOUTHCOST REGION ALASKA</p> | <p>SITKA: KATLIAN BAY ROAD<br/>ROAD CONSTRUCTION<br/>STATE PROJECT NUMBER: 67672</p> <p>NEAR: SITKA, ALASKA<br/>LOCATED IN: T55S-R63E &amp; 64E and T54S-R63E &amp; 64E<br/>SHEET 34 OF 44<br/>DATE: 10/18/2017</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

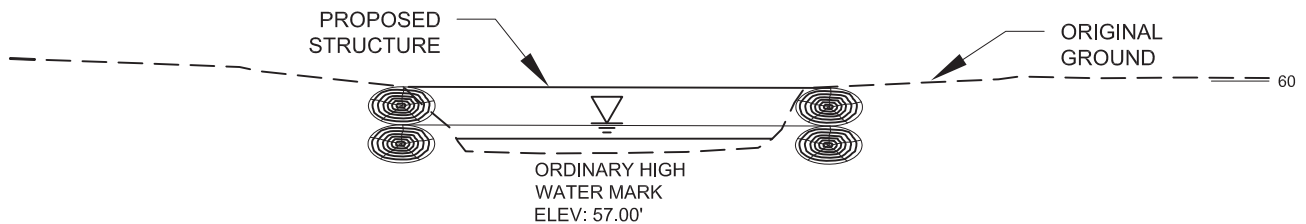
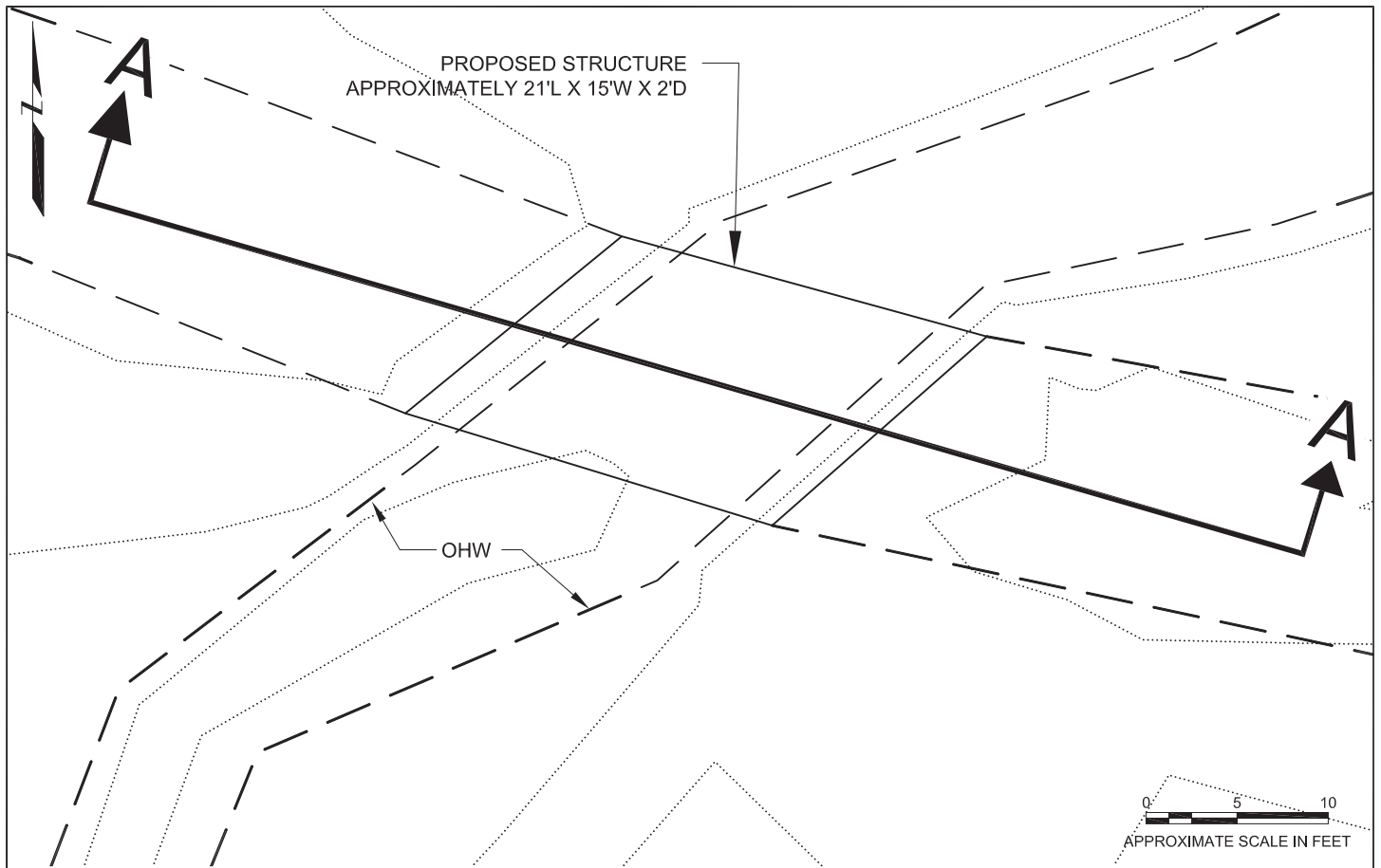
WATER BODY: KATLIAN BAY

LOG STRINGER 1

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 35 OF 44  
DATE: 10/11/2017



### SECTION A-A

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

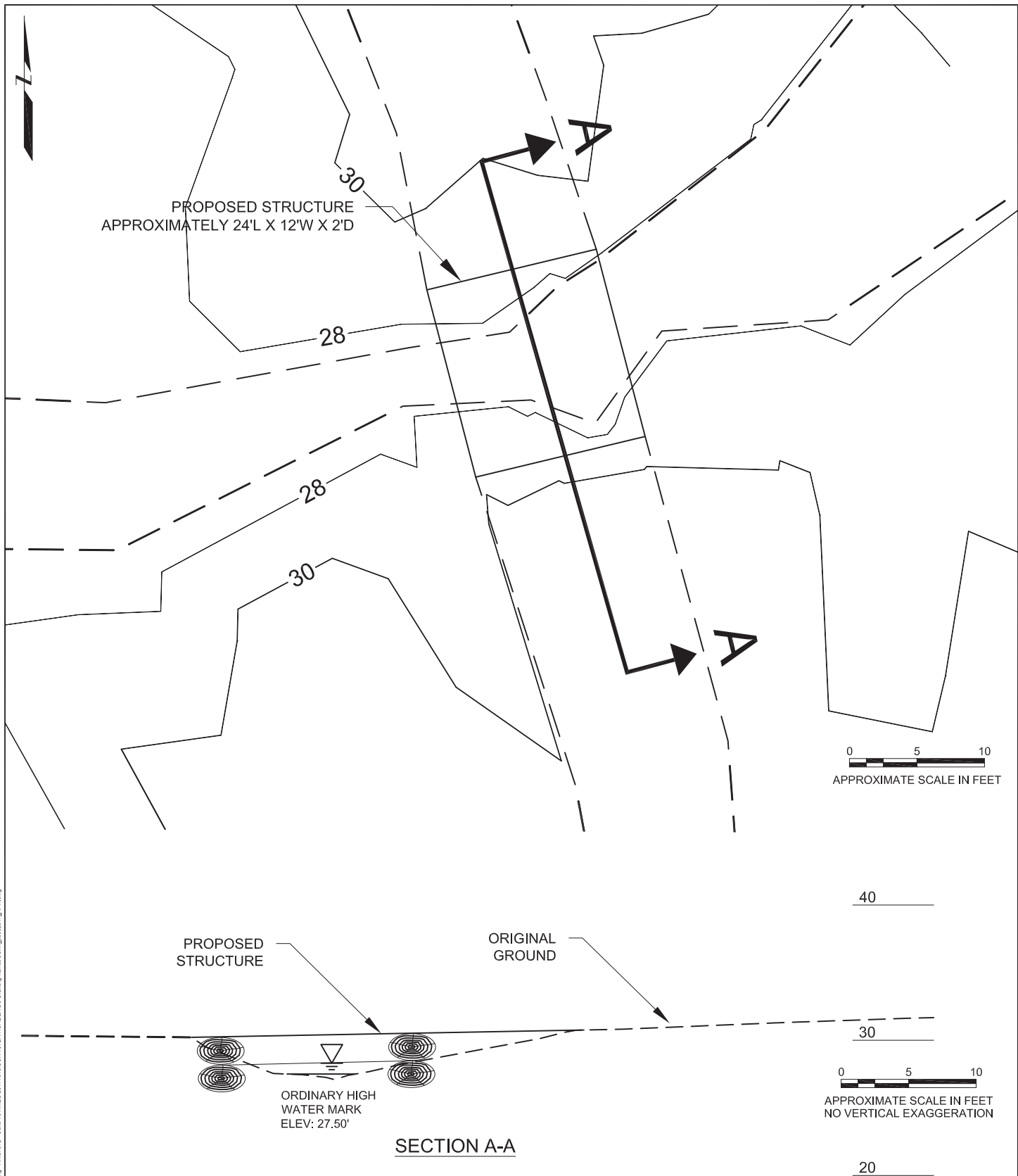
WATER BODY: KATLIAN BAY

LOG STRINGER 2

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 36 OF 44  
DATE: 10/11/2017



ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

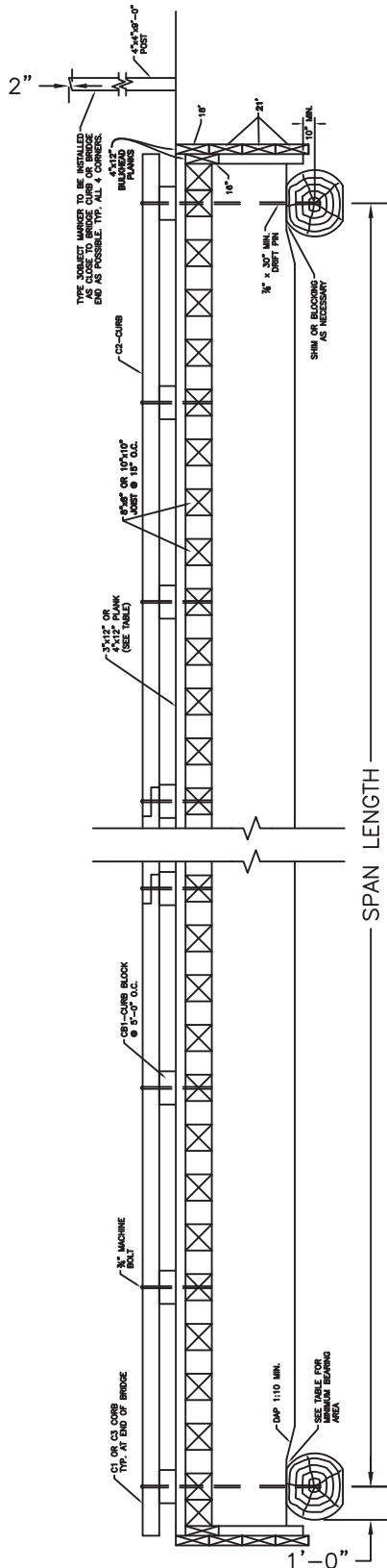
WATER BODY: KATLIAN BAY

LOG STRINGER 3

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 37 OF 44  
DATE: 10/17/2017



GENERAL NOTES:  
GENERAL REQUIREMENTS:  
CONTRACTOR SHALL CHECK THE GENERAL LAYOUT SHEET TO DETERMINE THE SPAN LENGTH, NUMBER AND SOURCE OF STRINGERS, JOIST SPACING, AND OTHER GENERAL REQUIREMENTS. THIS STANDARD IS BASED ON STRENGTH PROPERTIES OF DOUGLASS FIR AND WESTERN LARCH. THESE SPECIFICATIONS ARE NOT APPLICABLE IF THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR AN ADJUSTED MINIMUM LOG DIAMETER.

SPECIFICATIONS:  
DESIGN: ASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1989.  
CONSTRUCTION: FOREST SERVICE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES 1985 AND APPLICABLE SPECIAL PROJECT SPECIFICATIONS.

DESIGN LOADS:  
DEAD LOADS: TIMBER = 50 LBS/CUBIC FT.  
LIVE LOAD: HS20 (120K OR HS20) AT STANDARD ALLOWABLE STRESSES.  
ALLOWABLE STRESSES: ADJUSTED FOR WET CONDITIONS, POUNDS PER SQUARE INCH  
BENNETT F<sub>b</sub> SHEAR F<sub>v</sub> COMPRESSIONS PERP TO GRAIN, F<sub>c</sub>  
LOGS 2100  
250

QUANTITIES:  
NUMBER AND HARDWARE QUANTITIES ARE ESTIMATED. LUMBER ESTIMATE IS BASED UPON NOMINAL SIZE AND FINISHED LENGTH. A SUITABLE INCREASE IN ESTIMATED AMOUNTS SHOULD BE MADE TO COVER SHOP REQUIREMENTS AND FIELD LOSSES.

MATERIALS:  
LUMBER:  
1. LUMBER SHALL BE DOUGLAS FIR (COAST TYPE IF TO BE TREATED) OR WESTERN LARCH, ROUGH SAWN OR S&S, NO. 1, GRADE OR BETTER ACCORDING TO THE CURRENT GRADING RULES OF WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU.

STRINGERS:  
LOGS SHALL BE DOUGLAS FIR OR WESTERN LARCH, CUT FROM LIVE TREES FREE FROM DECAY, INSECT ATTACK OR VISIBLE CRACKS, PEELED AND TRIMMED SMOOTH OF ALL KNOTS AND PROJECTIONS. NO LARGE KNOTS SHALL BE ALLOWED IN THE TOP OR BOTTOM OF THE STRINGER. THE MAXIMUM ALLOWABLE VARIATION IN STRINGER DIAMETER SHALL NOT EXCEED 15% OF THE MIDSPAN DIAMETER OF THE SMALLEST STRINGER.

HARDWARE:  
MACHINE BOLTS AND DRIFT PINS SHALL BE OF THE SIZE AND TYPE SHOWN AND SHALL CONFORM TO ASTM A-307. DRIFT PINS SHALL HAVE THEIR ENDS SLIGHTLY TAPERED OR ROUNDED. APPROPRIATE WALLEABLE IRON WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS.

FABRICATION:  
LUMBER JOINTS AND DRIFT PIN CONNECTIONS ARE REQUIRED. SUPERSTRUCTURE LUMBER AND TIMBER SHALL BE AS DETAILED ON THIS SHEET. ALL LUMBER AND TIMBER SHALL BE COMPLETELY AND ACCURATELY FABRICATED PRIOR TO TREATMENT. INSPECTION MARKINGS ARE REQUIRED AS CALLED FOR BELOW. BOLT HOLES SHALL BE BORED TO 3/4" INCH OVERSIZE. HOLES FOR DRIFT PINS SHALL BE 3/4" INCH UNDERSIZE.

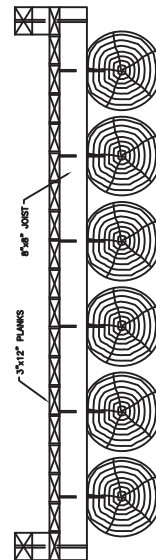
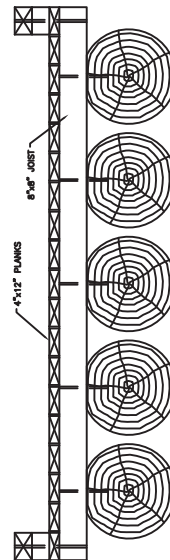
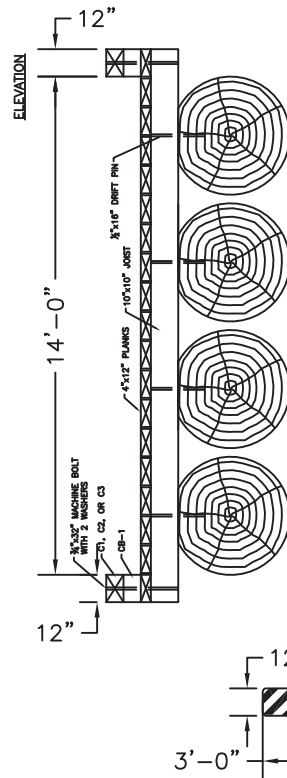
TREATMENT:  
BULKHEAD PLANKS, STRINGERS, SHIM OR BLOCKS, AND WASHERS SHALL BE TREATED. ALL REMAINING LUMBER AND TIMBER SHALL BE TREATED. LUMBER AND TIMBER SHALL BE TREATED BY THE FOLLOWING METHODS: (1) LUMBER SHALL BE TREATED BY THE EMPTY CELL PROCESS IN ACCORDANCE WITH ANPA C-2, USING ANY OF THE FOLLOWING TREATMENTS: (A) MEETING ANPA P-3 TO A RETENTION OF 0.6 PCF. (B) MEETING ANPA P-4 TO A RETENTION OF 0.6 PCF. (C) MEETING ANPA P-5 TO A RETENTION OF 0.6 PCF. (D) MEETING ANPA P-6 TO A RETENTION OF 0.6 PCF. (E) MEETING ANPA P-7 TO A RETENTION OF 0.6 PCF. (F) MEETING ANPA P-8 TO A RETENTION OF 0.6 PCF. (G) MEETING ANPA P-9 TO A RETENTION OF 0.6 PCF. (H) MEETING ANPA P-10 TO A RETENTION OF 0.6 PCF. (I) MEETING ANPA P-11 TO A RETENTION OF 0.6 PCF. (J) MEETING ANPA P-12 TO A RETENTION OF 0.6 PCF.

INSPECTION AND CERTIFICATIONS:  
THE SUPPLIER SHALL FURNISH COMPLIANCE CERTIFICATES THAT BE FURNISHED UPON DELIVERY OF SAWN MATERIAL TO THE JOB SITE. (A) SUPPLIER CERTIFICATIONS THAT ALL WOOD MATERIALS MEET THE REQUIREMENTS AS TO SPECIES AND GRADES. (B) CERTIFICATION A PRESERVATIVE, PENETRATION IN INCHES AND RETENTION IN POUNDS PER CUBIC FOOT (ASSAY METHOD) EITHER BY A QUALIFIED TESTING AND INSPECTION AGENCY OR BY SUPPLIER CERTIFICATION IF EACH PIECE IS STAMPED OR BRANDED WITH THE ANPA QUALITY MARK.

FIELD TREATMENT:  
THE PERIMETER, 3 FEET FROM EACH END OF THE STRINGER LOGS SHALL BE TREATED WITH THREE BRUSH COATS OF THE PRESERVATIVE USED TO TREAT SAWN MATERIAL OR ONE LIBERAL COAT OF PENTACHLOROPHENOL PRESERVATIVE IN PASTE FORM.

SAWN TIMBER:  
CUTS, ABRASSIONS, AND DIPS MADE IN TREATED WOOD SHALL BE TREATED WITH THREE BRUSH COATS OF THE ORIGINAL PRESERVATIVE. THE PRESERVATIVE SHALL BE APPLIED TO THE ENTIRE SURFACE OF THE WOOD. UNUSED HOLES SHALL BE POURED FULL OF PRESERVATIVE AND PLUGGED.

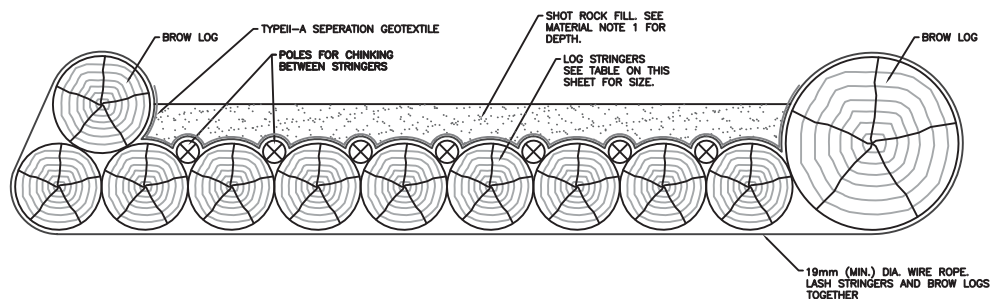
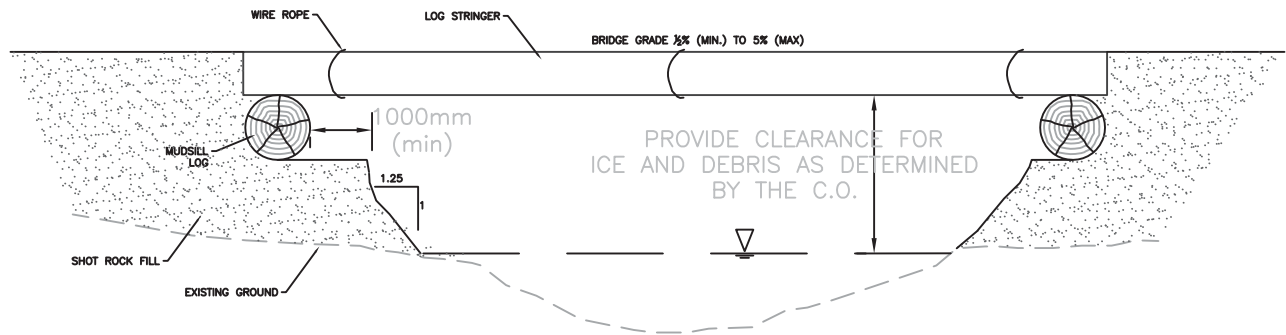
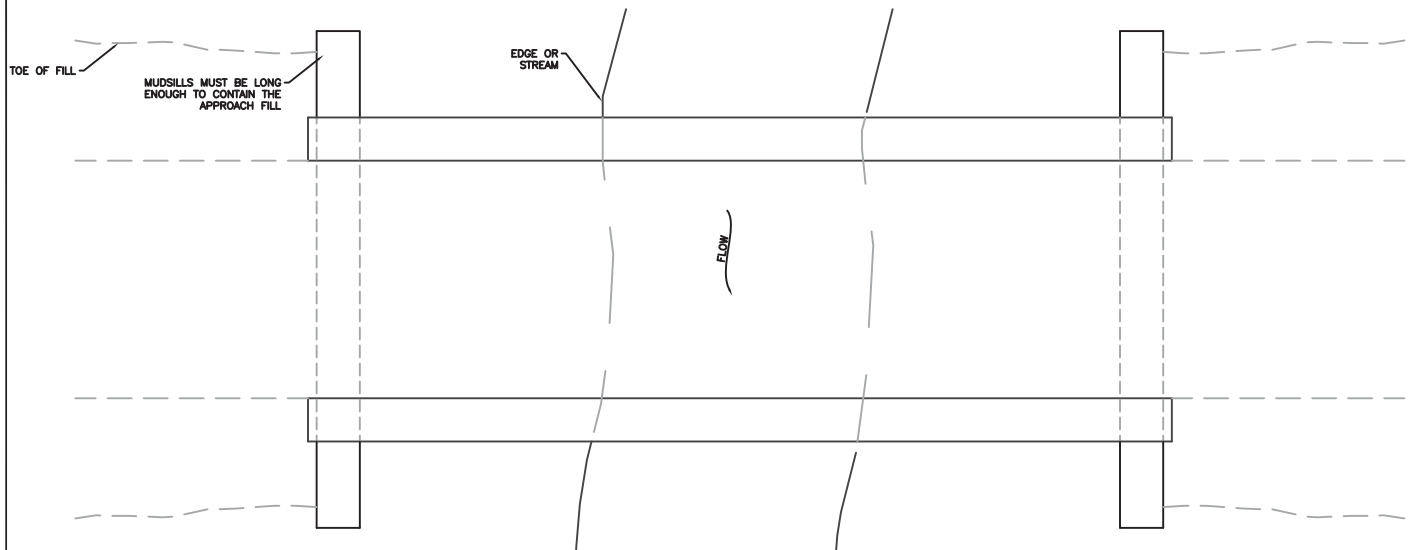
INSTALLATION OF FLOOR PLANKING:  
FLOOR PLANKS SHALL BE RANDOM LENGTHS (MINIMUM). THEY SHALL BE BUT JOINTED OVER THE JOISTS WITH NO BUTT JOINT THE SAME JOINT NEARER THAN EVERY THIRD LINE OF PLANK. LAY PLANK HEART SIDE DOWN. PLANKS SHALL BE SECURELY SPIGOT WITH 3/4" x 9/8" COMMON SPIGOTS THROUGH AT PRE-DRILLED HOLES. TWO SPIGOTS SHALL BE USED AT EACH END OF THE PLANK WITH ONE SPIKE TO EACH JOIST ON ALTERNATE EDGES OF THE PLANK (15' CENTERS).



ADJACENT PROPERTY OWNERS:  
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SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA  
  
WATER BODY: KATLIAN BAY

LOG STRINGER  
DETAILS (TYPICAL)  
  
APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672  
  
NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 38 OF 44  
DATE: 10/11/2017



SECTION NEAR MIDSPAN

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA  
  
WATER BODY: KATLIAN BAY

LOG STRINGER  
DETAILS (TYPICAL)  
  
APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672  
  
NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 39 OF 44  
DATE: 10/17/2017

# WETLAND IMPACTS

| Wetland No. <sup>1</sup> | Approximate Station | Cowardin Class <sup>2</sup> | WESPAK-SE Wetland Type <sup>3</sup> | Temporary Impact Area (acres) <sup>4</sup> | Permanent Impact Area (acres) | Total Excavation (cubic yards) | Total Fill Volume (cubic yards) |
|--------------------------|---------------------|-----------------------------|-------------------------------------|--------------------------------------------|-------------------------------|--------------------------------|---------------------------------|
| 1                        | 2+00                | PFO4B                       | Forested Peatland                   | 0.19                                       | 0.54 <sup>(5)</sup>           | 3,543                          | 6,743                           |
| 2                        | 12+00               | PFO4B                       | Forested Peatland                   | 0.02                                       | 0.08                          | 7                              | 566                             |
| 3                        | 14+00               | PFO4B                       | Forested Peatland                   | 0.03                                       | 0.13                          | 0                              | 1,292                           |
| 4                        | 17+00               | PFO4B                       | Forested Peatland                   | 0.00                                       | 0.02                          | 0                              | 232                             |
| 5                        | 22+00               | PFO4B                       | Forested Peatland                   | 0.01                                       | 0.01                          | 0                              | 119                             |
| 6                        | 27+00               | PFO4B                       | Forested Peatland                   | 0.05                                       | 0.27                          | 0                              | 2,834                           |
| 7                        | 32+00               | PFO4B                       | Forested Peatland                   | 0.01                                       | 0.03                          | 0                              | 265                             |
| 8                        | 106+50              | PFO4B                       | Forested Peatland                   | 0.01                                       | 0.03                          | 0                              | 622                             |
| 9                        | 113+00              | PFO4B                       | Forested Peatland                   | 0.02                                       | 0.48                          | NA                             | NA                              |
| 10                       | 192+00              | PFO4/PEM1 and PFO4B         | Open Peatland, Forested Peatland    | 0.02                                       | 0.12                          | 2,059                          | 3                               |
| 11                       | 222+00              | PFO4/PEM1B                  | Open Peatland                       | 0.07                                       | 0.33                          | 81                             | 3,321                           |
| 12                       | 234+00              | PFO4B                       | Forested Peatland                   | 0.05                                       | 0.15 <sup>(6)</sup>           | 99                             | 2,331                           |
| 13                       | 325+00              | PFO4A/B                     | Forested Peatland, Floodplain       | 0.02                                       | 0.06                          | 0                              | 766                             |
| 14                       | 338+00              | PUB3x                       | Floodplain                          | 0.00                                       | 0.01                          | 0                              | 14                              |
| 15                       | 345+00              | PFO4/PEM1B                  | Open Peatland                       | 0.07                                       | 0.54                          | 3                              | 9,768                           |
| 16                       | 351+00              | PFO4/PEM1B                  | Open Peatland                       | 0.08                                       | 0.27                          | 0                              | 2,060                           |
| 17                       | 357+00              | PFO4/PEM1B                  | Open Peatland                       | 0.05                                       | 0.23                          | 1                              | 2,477                           |
| 18                       | 362+00              | PFO4B/PEM1B                 | Open Peatland                       | 0.03                                       | 0.10                          | 0                              | 839                             |
| 19                       | 364+25              | PFO4/PSS1B                  | Open Peatland                       | 0.02                                       | 0.09                          | 6                              | 633                             |
| 20                       | 373+30              | PFO4/PEM1B                  | Open Peatland                       | 0.01                                       | 0.04                          | 2                              | 395                             |
| 21                       | 378+00              | PFO4B                       | Floodplain                          | 0.05                                       | 0.19                          | 0                              | 3,239                           |
| 22                       | 397+10              | PFO1A/B                     | Floodplain                          | 0.03                                       | 0.18                          | 0                              | 2,193                           |
| 23                       | 414+00              | PFO1B and PFO4A/B           | Floodplain                          | 0.17                                       | 0.88                          | 0                              | 11,133                          |
| 24                       | 440+00              | PFO1A/B                     | Floodplain                          | 0.06                                       | 0.44                          | 0                              | 8,004                           |
| <b>Total</b>             |                     |                             |                                     | 1.06                                       | <b>5.20</b>                   | 5,801                          | 59,849                          |

<sup>1</sup> Watercourse ID assigned in Katlian Bay Road Environmental Document (Amec Foster Wheeler, 2017)

<sup>2</sup> Classification of Wetlands and Deep Water Habitats of the United States (Cowardin et al., 1979)

<sup>3</sup> Manual for Wetland Ecosystem Services Protocol for Southeast Alaska (Adamus, 2013)

<sup>4</sup> Clearing and grubbing will occur within 5 feet of toe of fill/top of cut

<sup>5</sup> Wetland/non-wetland mosaic, includes area factor of 0.6

<sup>6</sup> Wetland/non-wetland mosaic, includes area factor of 0.7

ADJACENT PROPERTY OWNERS:  
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STATE OF ALASKA  
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CITY OF SITKA

WATER BODY: KATLIAN BAY

## WETLAND IMPACTS

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 40 OF 44  
DATE: 10/18/2017

| SUMMARY OF WETLAND IMPACTS BY CLASS       |              |
|-------------------------------------------|--------------|
| Cowardin <sup>1</sup> Wetland Class       | Area (acres) |
| Palustrine Forested (PFO)                 | 3.49         |
| Palustrine Forested/Emergent (PFO/PEM)    | 1.62         |
| Palustrine Forested/Scrub Shrub (PFO/PSS) | 0.09         |
| Palustrine Unconsolidated Bottom (PUB)    | 0.01         |
| <b>Total</b>                              | <b>5.20</b>  |

<sup>1</sup> Classification of Wetlands and Deep Water Habitats of the United States (Cowardin et al., 1979)

| SUMMARY OF WETLAND IMPACTS BY TYPE  |              |
|-------------------------------------|--------------|
| WESPAK-SE <sup>1</sup> Wetland Type | Area (acres) |
| Floodplain                          | 1.68         |
| Open Peatland                       | 1.71         |
| Forested Peatland                   | 1.81         |
| <b>Total</b>                        | <b>5.20</b>  |

<sup>1</sup> Manual for Wetland Ecosystem Services Protocol for Southeast Alaska (Adamus, 2013)

ADJACENT PROPERTY OWNERS:  
 US FOREST SERVICE  
 STATE OF ALASKA  
 SHEE ATIKA URBAN CORPORATION  
 CITY OF SITKA  
  
 WATER BODY: KATLIAN BAY

SUMMARY OF WETLAND IMPACTS  
 BY CLASS  
  
 APPLICATION BY:  
 STATE OF ALASKA DEPARTMENT  
 OF TRANSPORTATION AND  
 PUBLIC FACILITIES  
 SOUTHCOAST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
 ROAD CONSTRUCTION  
 STATE PROJECT NUMBER: 67672  
  
 NEAR: SITKA, ALASKA  
 LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
 SHEET 41 OF 44  
 DATE: 10/11/2017

## Impacts to Other Waters of the US

| Water-course ID <sup>1</sup> | Station | Pipe No. | Proposed Structure <sup>2</sup> | Culvert Length (Feet) | CUT (CY) | FILL D1 (CY) | FILL RIPRAP (CY) | FILL CONCRETE (CY) | AREA (SQ.FT.) |
|------------------------------|---------|----------|---------------------------------|-----------------------|----------|--------------|------------------|--------------------|---------------|
| 1                            | 3+06    | P-1      | 24" CAP                         | 88                    | 0        | 5            | 0                | 0                  | 135           |
| 2                            | 11+63   | P-6      | 24" CAP                         | 34                    | 1        | 2            | 1                | 0                  | 113           |
| 3                            | 14+02   | P-9      | 24" CAP                         | 36                    | 0        | 2            | 1                | 0                  | 87            |
| 4                            | 16+07   | P-11     | 36" CAP                         | 54                    | 4        | 13           | 2                | 0                  | 327           |
| 5                            | 17+52   | P-13     | 24" CAP                         | 48                    | 0        | 1            | 1                | 0                  | 65            |
| 6                            | 18+48   | P-14     | 48" CAP                         | 42                    | 6        | 22           | 6                | 0                  | 484           |
| 7                            | 22+16   | P-16     | 24" CAP                         | 38                    | 0        | 1            | 1                | 0                  | 44            |
| 8                            | 22+65   | P-17     | 24" CAP                         | 50                    | 0        | 5            | 1                | 0                  | 170           |
| 9                            | 27+56   | P-19     | 24" CAP                         | 58                    | 0        | 3            | 1                | 0                  | 65            |
| 10                           | 28+26   | P-20     | 24" CAP                         | 50                    | 1        | 3            | 1                | 0                  | 52            |
| 11                           | 28+66   | P-21     | 36" CAP                         | 58                    | 8        | 8            | 2                | 0                  | 266           |
| 12                           | 29+38   | P-22     | 24" CAP                         | 46                    | 0        | 2            | 1                | 0                  | 61            |
| 13                           | 33+63   | SPPA#1   | 6'8" X 5'11" SPPA               | 52                    | 0        | 22           | 4                | 0                  | 505           |
| 14                           | 33+63   | P-23     | 48" CAP                         | 72                    | 0        | 11           | 1                | 0                  | 353           |
| 15                           | 34+61   | P-25     | 24" CAP                         | 42                    | 0        | 5            | 1                | 0                  | 148           |
| 16                           | 37+15   | P-27     | 24" CAP                         | 32                    | 0        | 1            | 1                | 0                  | 57            |
| 17                           | 41+85   | SPA#1    | 6'0" X 3'2" SPA                 | 46                    | 50       | 0            | 0                | 11                 | 601           |
| 18                           | 43+42   | P-30     | 48" CAP                         | 46                    | 39       | 14           | 3                | 0                  | 353           |
| 18A                          | 45+65   | P-31     | 36" CAP                         | 36                    | 91       | 6            | 0                | 0                  | 196           |
| 19                           | 48+36   | P-32     | 48" CAP                         | 40                    | 23       | 5            | 1                | 0                  | 148           |
| 20                           | 49+51   | P-33     | 24" CAP                         | 46                    | 18       | 3            | 1                | 0                  | 170           |
| 21                           | 50+16   | P-34     | 48" CAP                         | 42                    | 38       | 8            | 4                | 0                  | 244           |
| 21A                          | 56+30   | P-37     | 24" CAP                         | 60                    | 0        | 5            | 1                | 0                  | 122           |
| 21B                          | 65+60   | P-41     | 24" CAP                         | 34                    | 6        | 5            | 1                | 0                  | 174           |
| 21C                          | 73+36   | P-43     | 24" CAP                         | 34                    | 54       | 3            | 1                | 0                  | 135           |
| 21D                          | 74+55   | P-44     | 24" CAP                         | 28                    | 28       | 3            | 1                | 0                  | 152           |
| 21E                          | 77+51   | P-45     | 24" CAP                         | 34                    | 69       | 3            | 1                | 0                  | 174           |
| 21F                          | 84+60   | P-47     | 24" CAP                         | 28                    | 34       | 3            | 1                | 0                  | 118           |
| 22                           | 87+41   | P-48     | 36" CAP                         | 34                    | 67       | 6            | 1                | 0                  | 227           |
| 22A                          | 90+41   | P-51     | 24" CAP                         | 42                    | 49       | 6            | 1                | 0                  | 292           |
| 22B                          | 92+03   | P-52     | 24" CAP                         | 28                    | 13       | 5            | 1                | 0                  | 183           |
| 23                           | 93+44   | P-53     | 60" CAP                         | 52                    | 0        | 24           | 4                | 0                  | 484           |
| 23A                          | 95+14   | P-54     | 24" CAP                         | 36                    | 1        | 6            | 1                | 0                  | 179           |
| 23B                          | 96+27   | P-55     | 24" CAP                         | 34                    | 31       | 3            | 1                | 0                  | 126           |
| 23C                          | 96+83   | P-56     | 24" CAP                         | 38                    | 23       | 6            | 1                | 0                  | 200           |
| 23D                          | 97+11   | P-57     | 24" CAP                         | 38                    | 17       | 5            | 1                | 0                  | 213           |
| 24                           | 98+46   | P-58     | 36" CAP                         | 36                    | 39       | 13           | 1                | 0                  | 418           |
| 25                           | 100+32  | P-59     | 36" CAP                         | 46                    | 0        | 6            | 1                | 0                  | 305           |
| 26                           | 103+73  | SPPA#2   | 7'11" X 5'7" SPA                | 70                    | 20       | 0            | 5                | 0                  | 1124          |
| 27                           | 105+74  | P-60     | 36" CAP                         | 48                    | 0        | 9            | 1                | 0                  | 244           |
| 27A                          | 109+29  | P-64     | 24" CAP                         | 42                    | 4        | 3            | 1                | 0                  | 122           |
| 27B                          | 112+71  | P-66     | 48" CAP                         | 74                    | 0        | 11           | 1                | 0                  | 344           |
| 27C                          | 120+16  | P-71     | 24" CAP                         | 38                    | 81       | 3            | 1                | 0                  | 152           |
| 28                           | 122+61  | SPA#2    | 16'0" X 7'1" SPA                | 76                    | 150      | 0            | 0                | 17                 | 723           |
| 28A                          | 124+37  | P-72     | 24" CAP                         | 34                    | 32       | 4            | 1                | 0                  | 161           |
| 28B                          | 125+91  | P-73     | 24" CAP                         | 32                    | 42       | 3            | 1                | 0                  | 126           |
| 28C                          | 127+97  | P-75     | 24" CAP                         | 34                    | 0        | 3            | 1                | 0                  | 87            |
| 29                           | 128+43  | P-76     | 24" CAP                         | 46                    | 0        | 5            | 1                | 0                  | 126           |
| 30                           | 131+81  | P-77     | 24" CAP                         | 34                    | 15       | 3            | 1                | 0                  | 152           |
| 30A                          | 133+67  | P-78     | 24" CAP                         | 28                    | 556      | 2            | 1                | 0                  | 213           |
| 31                           | 136+39  | SPA#3    | 19'0" X 9'5" SPA                | 82                    | 150      | 0            | 0                | 19                 | 1559          |

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

IMPACTS TO  
WATERS OF THE U.S.

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 42 OF 44  
DATE: 12/11/2017

## Impacts to Other Waters of the US

| Water-course ID <sup>1</sup> | Station | Pipe No. | Proposed Structure <sup>2</sup> | Culvert Length (Feet) | CUT (CY) | FILL D1 (CY) | FILL RIPRAP (CY) | FILL CONCRETE (CY) | AREA (SQ.FT.) |
|------------------------------|---------|----------|---------------------------------|-----------------------|----------|--------------|------------------|--------------------|---------------|
| 31A                          | 139+58  | P-80     | 24" CAP                         | 28                    | 41       | 2            | 1                | 0                  | 113           |
| 31B                          | 140+49  | P-81     | 24" CAP                         | 32                    | 43       | 3            | 1                | 0                  | 126           |
| 32                           | 148+48  | P-85     | 60" CAP                         | 86                    | 0        | 38           | 5                | 0                  | 1024          |
| 32A                          | 149+66  | P-86     | 24" CAP                         | 30                    | 0        | 8            | 1                | 0                  | 222           |
| 32B                          | 150+66  | P-87     | 24" CAP                         | 60                    | 95       | 4            | 1                | 0                  | 200           |
| 32C                          | 157+53  | P-90     | 24" CAP                         | 30                    | 39       | 2            | 1                | 0                  | 122           |
| 32D                          | 160+76  | P-92     | 48" CAP                         | 40                    | 80       | 16           | 4                | 0                  | 605           |
| 33                           | 164+03  | P-94     | 36" CAP                         | 32                    | 29       | 4            | 1                | 0                  | 135           |
| 33A                          | 165+16  | P-95     | 24" CAP                         | 30                    | 66       | 2            | 1                | 0                  | 157           |
| 33B                          | 169+76  | P-99     | 24" CAP                         | 30                    | 50       | 2            | 1                | 0                  | 135           |
| 33C                          | 171+24  | P-100    | 24" CAP                         | 28                    | 49       | 2            | 1                | 0                  | 131           |
| 33D                          | 173+43  | P-102    | 24" CAP                         | 28                    | 29       | 2            | 1                | 0                  | 105           |
| 33E                          | 173+13  | P-103    | 24" CAP                         | 40                    | 53       | 3            | 1                | 0                  | 135           |
| 33F                          | 173+13  |          |                                 |                       | 53       | 3            | 0                | 0                  | 135           |
| 34                           | 176+52  | SPA#4    | 20'0" X 10'0" SPA               | 86                    | 500      | 0            | 0                | 20                 | 2601          |
| 35                           | 181+75  | P-104    | 36" CAP                         | 86                    | 0        | 12           | 1                | 0                  | 928           |
| 35A                          | 182+22  | P-104    | 36" CAP                         | 147                   | 0        | 0            |                  | 0                  | 0             |
| 35B                          | 183+68  | P-105    | 24" CAP                         | 28                    | 16       | 4            | 1                | 0                  | 139           |
| 36                           | 187+49  | P-107    | 36" CAP                         | 48                    | 1        | 8            | 2                | 0                  | 283           |
| 36A                          | 189+27  | P-108    | 24" CAP                         | 28                    | 40       | 2            | 1                | 0                  | 126           |
| 36B                          | 191+94  | P-111    | 24" CAP                         | 38                    | 63       | 3            | 1                | 0                  | 139           |
| 36C                          | 192+45  | P-112    | 24" CAP                         | 40                    | 57       | 3            | 1                | 0                  | 139           |
| 36D                          | 198+50  | P-114    | 24" CAP                         | 34                    | 59       | 3            | 1                | 0                  | 144           |
| 36E                          | 200+93  | P-116    | 24" CAP                         | 28                    | 48       | 2            | 1                | 0                  | 144           |
| 36F                          | 201+76  | P-117    | 24" CAP                         | 28                    | 17       | 4            | 1                | 0                  | 200           |
| 37                           | 212+31  | P-124    | 48" CAP                         | 34                    | 42       | 16           | 1                | 0                  | 231           |
| 37A                          | 212+77  | P-125    | 24" CAP                         | 34                    | 77       | 3            | 1                | 0                  | 187           |
| 37B                          | 221+29  | P-131    | 36" CAP                         | 76                    | 3        | 12           | 1                | 0                  | 309           |
| 37C                          | 221+29  |          |                                 |                       | 3        | 12           | 0                | 0                  | 309           |
| 37D                          | 223+42  | P-133    | 24" CAP                         | 58                    | 0        | 5            | 1                | 0                  | 131           |
| 38                           | 227+78  | P-135    | 60" CAP                         | 82                    | 23       | 27           | 3                | 0                  | 736           |
| 38A                          | 231+75  | P-137    | 24" CAP                         | 38                    | 34       | 4            | 1                | 0                  | 139           |
| 38B                          | 233+26  | P-138    | 24" CAP                         | 64                    | 0        | 11           | 1                | 0                  | 279           |
| 38C                          | 234+59  | P-139    | 24" CAP                         | 40                    | 0        | 5            | 1                | 0                  | 122           |
| 39                           | 239+58  | P-141    | 36" CAP                         | 40                    | 5        | 8            | 1                | 0                  | 431           |
| 40                           | 243+88  | P-144    | 48" CAP                         | 60                    | 0        | 9            | 2                | 0                  | 244           |
| 40A                          | 249+34  | P-146    | 24" CAP                         | 28                    | 14       | 3            | 1                | 0                  | 131           |
| 41                           | 254+92  | P-148    | 48" CAP                         | 42                    | 30       | 9            | 1                | 0                  | 409           |
| 41A                          | 256+02  | P-150    | 36" CAP                         | 38                    | 39       | 7            | 1                | 0                  | 248           |
| 42                           | 260+59  | SPA#5    | 26'0" X 13'1" SPA               | 124                   | 400      | 0            | 0                | 28                 | 3968          |
| 42A                          | 271+93  | P-159    | 24" CAP                         | 50                    | 0        | 6            | 1                | 0                  | 148           |
| 42B                          | 273+58  | P-160    | 24" CAP                         | 70                    | 0        | 8            | 1                | 0                  | 213           |
| 43                           | 277+63  | P-163    | 24" CAP                         | 28                    | 21       | 6            | 1                | 0                  | 192           |
| 44                           | 279+95  | P-165    | 24" CAP                         | 28                    | 71       | 8            | 1                | 0                  | 453           |
| 45                           | 282+74  | P-167    | 24" CAP                         | 90                    | 0        | 12           | 1                | 0                  | 418           |
| 46                           | 284+03  | SPPA#3   | 7'11" X 5'7" SPPA               | 134                   | 0        | 0            | 9                | 0                  | 1302          |
| 47                           | 292+05  | P-173    | 24" CAP                         | 48                    | 0        | 7            | 1                | 0                  | 562           |
| 48                           | 300+22  | P-180    | 24" CAP                         | 42                    | 0        | 5            | 1                | 0                  | 383           |
| 49                           | 301+92  | P-183    | 24" CAP                         | 36                    | 6        | 7            | 1                | 0                  | 353           |
| 50                           | 314+12  | P-191    | 24" CAP                         | 28                    | 32       | 2            | 1                | 0                  | 113           |
| 50A                          | 315+37  | P-192    | 24" CAP                         | 30                    | 57       | 2            | 1                | 0                  | 148           |

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

IMPACTS TO  
WATERS OF THE U.S.

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 43 OF 44  
DATE: 12/11/2017

## Impacts to Other Waters of the US

| Water-course ID <sup>1</sup> | Station                                            | Pipe No.            | Proposed Structure <sup>2</sup> | Culvert Length (Feet) | CUT (CY) | FILL D1 (CY) | FILL RIPRAP (CY) | FILL CONCRETE (CY) | AREA (SQ.FT.)       |
|------------------------------|----------------------------------------------------|---------------------|---------------------------------|-----------------------|----------|--------------|------------------|--------------------|---------------------|
| 50B                          | 317+26                                             | P-194               | 24" CAP                         | 40                    | 16       | 6            | 1                | 0                  | 205                 |
| 50C                          | 317+99                                             | P-195               | 24" CAP                         | 34                    | 2        | 5            | 1                | 0                  | 131                 |
| 50D                          | 318+67                                             | P-196               | 24" CAP                         | 56                    | 0        | 8            | 1                | 0                  | 196                 |
| 50E                          | 319+99                                             | P-197               | 24" CAP                         | 82                    | 0        | 7            | 1                | 0                  | 196                 |
| 50F                          | No proposed impact. Watercourses parallel roadway. |                     |                                 |                       | 0        | 0            | 0                | 0                  | 0                   |
| 50G                          |                                                    |                     |                                 |                       | 0        | 0            | 0                | 0                  | 0                   |
| 50H                          | 324+16                                             | P-200               | 24" CAP                         | 90                    | 0        | 8            | 1                | 0                  | 200                 |
| 51                           | 329+32                                             | NA                  | South Katlian River Bridge      | 123'6" span           | 0        | 0            | 0                | 0                  | 0                   |
| 52                           | 329+87                                             | SPPA#4              | 16'7" X 10'1" SPPA              | 90                    | 160      | 0            | 20               | 0                  | 1533                |
| NA                           | 330+97                                             | SPPA#5 <sup>3</sup> | 12'8" X 8'1" SPPA               | 74                    | 85       | 0            | 15               | 0                  | 540                 |
| 53                           | 333+48                                             | SPPA#6              | 8'10" X 6'1" SPPA               | 56                    | 40       | 0            | 9                | 0                  | 540                 |
| 53A                          | 341+45                                             | P-204               | 24" CAP                         | 32                    | 23       | 3            | 1                | 0                  | 105                 |
| 54                           | 348+07                                             | P-206               | 36" CAP                         | 36                    | 38       | 5            | 1                | 0                  | 187                 |
| 55                           | 349+68                                             | P-207               | 24" CAP                         | 54                    | 0        | 5            | 1                | 0                  | 118                 |
| 56                           | 353+16                                             | P-208               | 36" CAP                         | 76                    | 0        | 13           | 1                | 0                  | 340                 |
| 56A                          | 357+74                                             | P-211               | 24" CAP                         | 44                    | 0        | 7            | 1                | 0                  | 174                 |
| 57                           | 358+99                                             | P-213               | 96" CAP                         | 115                   | 2        | 25           | 6                | 0                  | 601                 |
| 57A                          | 364+47                                             | P-215               | 24" CAP                         | 40                    | 2        | 7            | 1                | 0                  | 205                 |
| 57B                          | 365+01                                             | P-216               | 24" CAP                         | 38                    | 1        | 5            | 1                | 0                  | 152                 |
| 58                           | 367+59                                             | P-217               | 24" CAP                         | 56                    | 0        | 7            | 1                | 0                  | 174                 |
| 58A                          | 369+11                                             | P-218               | 24" CAP                         | 28                    | 39       | 2            | 1                | 0                  | 139                 |
| 58B                          | 370+66                                             | P-219               | 24" CAP                         | 28                    | 22       | 3            | 1                | 0                  | 100                 |
| 59                           | 375+52                                             | SPPA#7              | 8'10" X 6'1" SPA                | 108                   | 115      | 0            | 7                | 0                  | 828                 |
| 60                           | 385+05                                             | P-226               | 96" CAP                         | 114                   | 109      | 36           | 6                | 0                  | 971                 |
| 61                           | 388+62                                             | SPPA#8              | 19'6" X 12'6" SPPA              | 58                    | 155      | 0            | 25               | 0                  | 1860                |
| 61A                          | 438+60                                             | SPPA#9              | 6'1" X 4'7" SPPA                | 94                    | 125      | 0            | 8                | 0                  | 675                 |
| 62                           | 439+16                                             | SPPA#10             | 8'10" X 6'1" SPPA               | 80                    | 100      | 0            | 11               | 0                  | 741                 |
| 63                           | 440+84                                             | SPPA#11             | 14'10" X 9'1" SPPA              | 68                    | 117      | 0            | 18               | 0                  | 1054                |
| 63A                          | 442+78                                             | SPPA#12             | 14'10" X 9'1" SPPA              | 68                    | 60       | 0            | 0                | 0                  | 871                 |
| 64                           | 477+13                                             | NA                  | Katlian River Bridge            | 153'6" span           | 30       | 0            | 0                | 0                  | 871                 |
| 64A                          | 447+13                                             |                     |                                 |                       | 30       | 35           | 35               | 0                  | 131                 |
| 64B                          | 453+13                                             | P-245               | 144" CAP                        | 100                   | 335      | 258          | 28               | 0                  | 1202                |
| 64C                          | 454+70                                             | SPPA#13             | 12'8" X 8'1" SPPA               | 130                   | 23       |              | 15               | 0                  | 1690                |
| 65                           | 455+45                                             | SPPA#14             | 5'5" X 3'4" SPPA                | 60                    | 0        | 0            | 8                | 0                  | 170                 |
| 66                           | "AT1" 1012+60                                      | P-248               | 24" CAP                         | 29                    | 6        | 4            | 1                | 0                  | 131                 |
| NA                           | "COXE" 8+56                                        | C1                  | 36" CAP                         | 38                    | 1        | 16           | 1                | 0                  | 131                 |
| NA                           | "COXE" 12+99                                       | C2                  | 48" CAP                         | 52                    | 0        | 3            | 1                | 0                  | 131                 |
| NA                           | "COXE" 14+55                                       | C3                  | 36" CAP                         | 42                    | 1        | 12           | 1                | 0                  | 131                 |
| Coxe River                   | "COXE" 17+22                                       | NA                  | LS Bridge                       | 61' span              | 2        | 0            | 1                | 0                  | 436                 |
| NA                           | 57.1735° N<br>135.2696° W                          | LS1                 | LS Replace In-kind              | 21' span              | 0        | 0            | 0                | 0                  | 0                   |
| NA                           | 57.1750° N<br>135.2386° W                          | LS2                 | LS Replace In-kind              | 17' span              | 0        | 0            | 0                | 0                  | 0                   |
| NA                           | 57.1646° N<br>135.2557° W                          | LS3                 | LS Replace In-kind              | 24' span              | 0        | 0            | 0                | 0                  | 0                   |
| <b>Total</b>                 |                                                    |                     |                                 |                       | 5597     | 1096         | 349              | 95                 | 50,952 (1.17 acres) |

<sup>1</sup> Watercourse ID assigned in Katlian Bay Road Environmental Document (Amec Foster Wheeler, 2017)

<sup>2</sup> CAP = corrugated aluminum pipe; SPA = structural plate arch; SPPA = structural plate pipe arch; LS = log stringer

<sup>3</sup> SPPA #5 was not identified in the wetland delineation report.

ADJACENT PROPERTY OWNERS:  
US FOREST SERVICE  
STATE OF ALASKA  
SHEE ATIKA URBAN CORPORATION  
CITY OF SITKA

WATER BODY: KATLIAN BAY

IMPACTS TO  
WATERS OF THE U.S.

APPLICATION BY:  
STATE OF ALASKA DEPARTMENT  
OF TRANSPORTATION AND  
PUBLIC FACILITIES  
SOUTHCOAST REGION ALASKA

SITKA: KATLIAN BAY ROAD  
ROAD CONSTRUCTION  
STATE PROJECT NUMBER: 67672

NEAR: SITKA, ALASKA  
LOCATED IN: T55S-R63E & 64E and T54S-R63E & 64E  
SHEET 44 OF 44  
DATE: 12/11/2017