



November 09, 2020

PUBLIC NOTICE (03-20)

All interested parties are notified that an application has been received from the Alaska Department of Transportation & Public Facilities (AK DOT&PF) for permits for five bridges crossing navigable waterways of the United States. This Public Notice is for fixed highway bridges crossing each of the five following locations south of Girdwood and within the Municipality of Anchorage, Alaska:

Bridge Name	Waterway	Latitude	Longitude	Miles above mouth of waterway
Placer River Overflow	Placer River Overflow	60°49'11.95"N	149°0'2.34"W	0.78 mile
Placer River	Placer River	60°48'59.538"N	148°59'15.333"W	0.89 mile
Portage Creek #1	Portage Creek #1	60°49'15.572"N	148°58'36.607"W	1.13 mile
Portage Creek #2	Portage Creek #2	60°49'36.828"N	148°58'40.842"W	0.54 mile
Twentymile River	Twentymile River	60°50'42.256"N	148°59'16.087"W	0.46 mile

CHARACTER OF WORK:

For all five bridges: The applicant proposes to construct a replacement bridge consisting of deck bulb tee girders, supported by pile-supported bridge piers. In-stream piles will be 48-inches in diameter, while abutment piles will be 24-inches in diameter. The low chord elevation of each proposed bridge will be higher in elevation than the existing bridge. Temporary work trestles/bridges will be necessary to facilitate bridge construction.

For all except Twentymile: Proposed bridge crossings will require installation of riprap to armor bridge abutments.

For Placer River, Portage Creek #1, and Twentymile River: During construction of the proposed replacement bridge, highway traffic will be routed across the existing bridges while one temporary trestle will be used to construct the new bridge at each site. A second temporary trestle will be used to remove the existing bridge at each site, once the replacement bridges are able to convey traffic.

For Placer River Overflow and Portage Creek #2: During construction of the proposed replacement bridge, a temporary bridge will be constructed to convey highway traffic and the second work trestle will be used to remove the existing bridge and construct the new bridge at each site. Temporary piles, measuring 24 inches in diameter, will be installed to support the temporary work trestles and will be

removed after bridge construction. If piles cannot be removed in a safe and timely manner, they will be cut down to the finished stream bottom. Vegetation will be cleared and grubbed as necessary. Equipment to be used includes, but is not limited to, cranes, generators, and hydraulic rams. Large trucks will be used to transport equipment, diesel fuel, and other supplies during construction. The use of barges or vessels is not anticipated.

Existing and Proposed Bridge Clearances

Bridge Name	Existing Bridge Vertical Clearance (Mean High Water to Low steel)	Proposed Bridge Vertical Clearance (Mean High Water to Low steel)	Vertical Clearance Difference (Mean High Water to Low steel)	Existing Bridge Horizontal Clearance (ft.)	Proposed Bridge Horizontal Clearance (ft.)	Horizontal Clearance Difference (ft.)
Placer River Overflow	10.1	12.0	1.9	80	119	39
Placer River	10.3	16.2	5.9	80	109	39
Portage Creek #1	10.6	13.7	3.1	80	82	2
Portage Creek #2	10.6	12.1	1.5	80	93	13
Twentymile River	11.0	12.5	1.5	75	112	37

Vertical Datum = NAVD88
 Horizontal Datum = NAD1983

ENVIRONMENTAL CONSIDERATIONS:

The lead agency for satisfying the requirements of the National Environmental Policy Act (NEPA) (40 CFR § 1506.11) is the Alaska Department of Transportation & Public Facilities (AKDOT&PF), which assumed NEPA responsibilities of the Federal Highway Administration (FHWA) pursuant to 23 U.S.C. 327 and a Memorandum of Understanding, dated November 3, 2017, between FHWA and AKDOT&PF. The FHWA and AKDOT&PF are acting on behalf of the USCG for all environmental laws.

An Environmental Assessment (EA) was prepared by the applicant and completed June, 2017. It is available at www.sewardhighway75to90.com. The Coast Guard tentatively has determined that the proposed action will not have a significant impact on the environment and plans to issue a Finding of No Significant Impact (FONSI).

AKDOT&PF obtained a Clean Water Act Section 401 Certificate of Reasonable Assurance from the Alaska Department of Environmental Conservation on 11/06/2019.

The five proposed bridges would be built across regulatory floodplains but are not significant encroachments.

100 Year Flood Plain and Low Steel Elevations

Bridge Name	100 Year Flood Plain Elevation (ft.)	Low Steel Elevation (ft.)
Placer River Overflow	30.0	34.6
Placer River	30.0	39.5
Portage Creek #1	29.2	36.4
Portage Creek #2	29.5	34.6
Twentymile River	29.3	35.2

The decision to grant approval of the location and plans for the proposed project rests primarily upon the effect that the project has on navigation.

SOLICITATION OF COMMENTS:

Mariners are requested to comment on the placement of a bridge protective system and other navigational safety issues, including the need for clearance gauges and extent of nighttime navigation passing through the bridge to determine the need for bridge lighting. Boat owners in the project vicinity are requested to provide information about their vessels, including type of vessel, length overall, draft, beam, and height from the waterline to the highest fixed point.

Interested parties are requested to express their views in writing on the proposed bridge project, giving sufficient detail to establish a clear understanding of their reasons for support of or opposition to the proposed work. Comments will be received at the office of: Commander, Seventeenth Coast Guard District (dpw-bridges), P.O. Box 25517 Juneau, Alaska 99802, for a 30-day period from the date of the public notice.

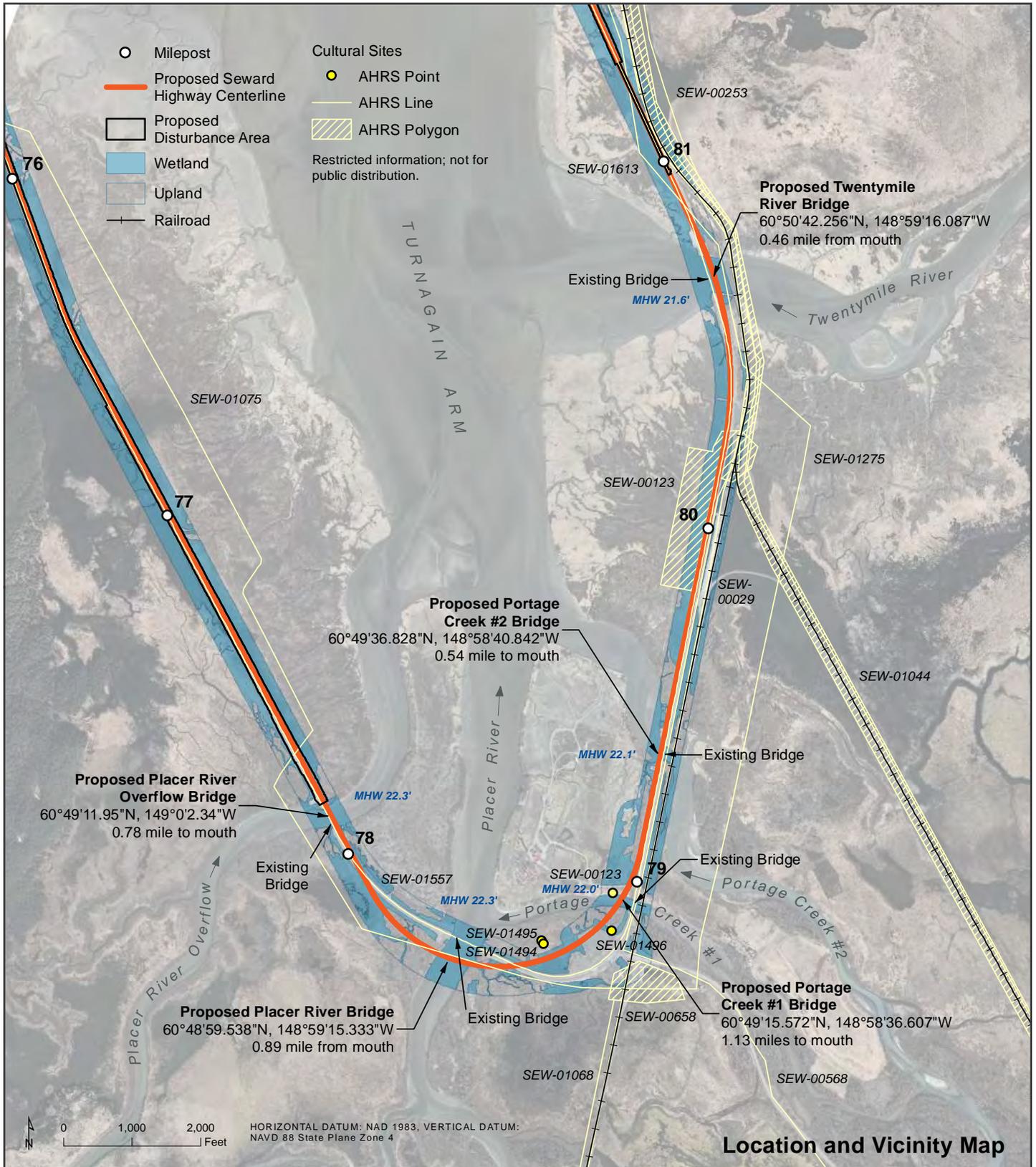
We will forward comments of an environmental nature, such as those regarding wildlife refuges, waterfowl refuges, public parks, historic sites, wetlands, floodplain issues, air and water quality, etc. to AKDOT&PF for appropriate consideration.

It is requested that this information be brought to the attention of any person having an interest in this who may not have received a copy of this public notice.

Map of location and plans are attached.

//s//
Clinton Scott
District Bridge Manager
U.S. Coast Guard
By direction of the District Commander

This is a web-searchable copy and not the official, signed version; however, other than the signature being omitted, it is a duplicate of the official version.



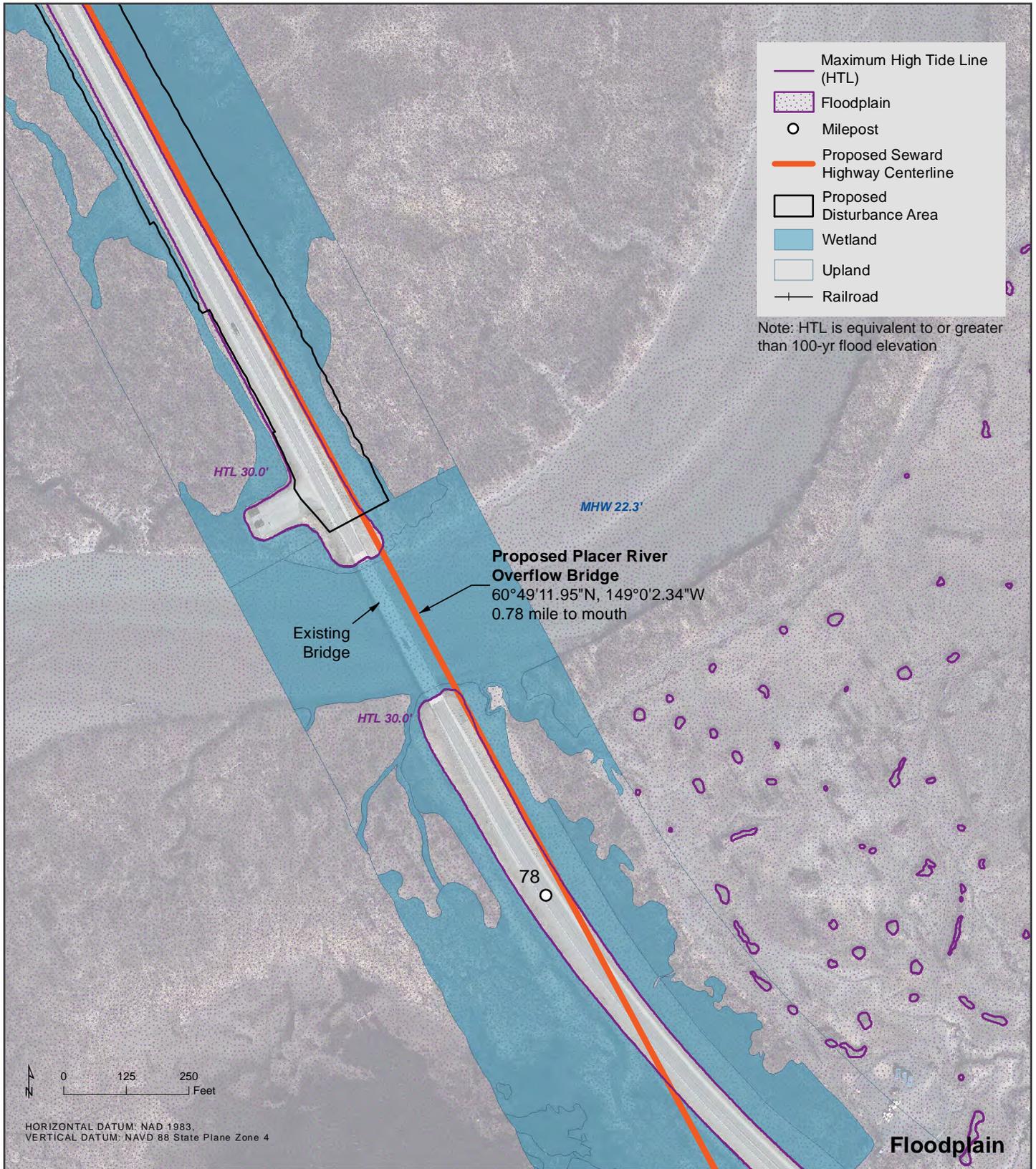
CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
PROPOSED BRIDGE: Placer River Overflow
WATERWAY: Placer River Overflow
LOCATION: Section 31, T9N, R3E
 Portage, Municipality of Anchorage, Alaska
 River Mile 0.78

DATE: JANUARY, 2020

SHEET: 1 of 5



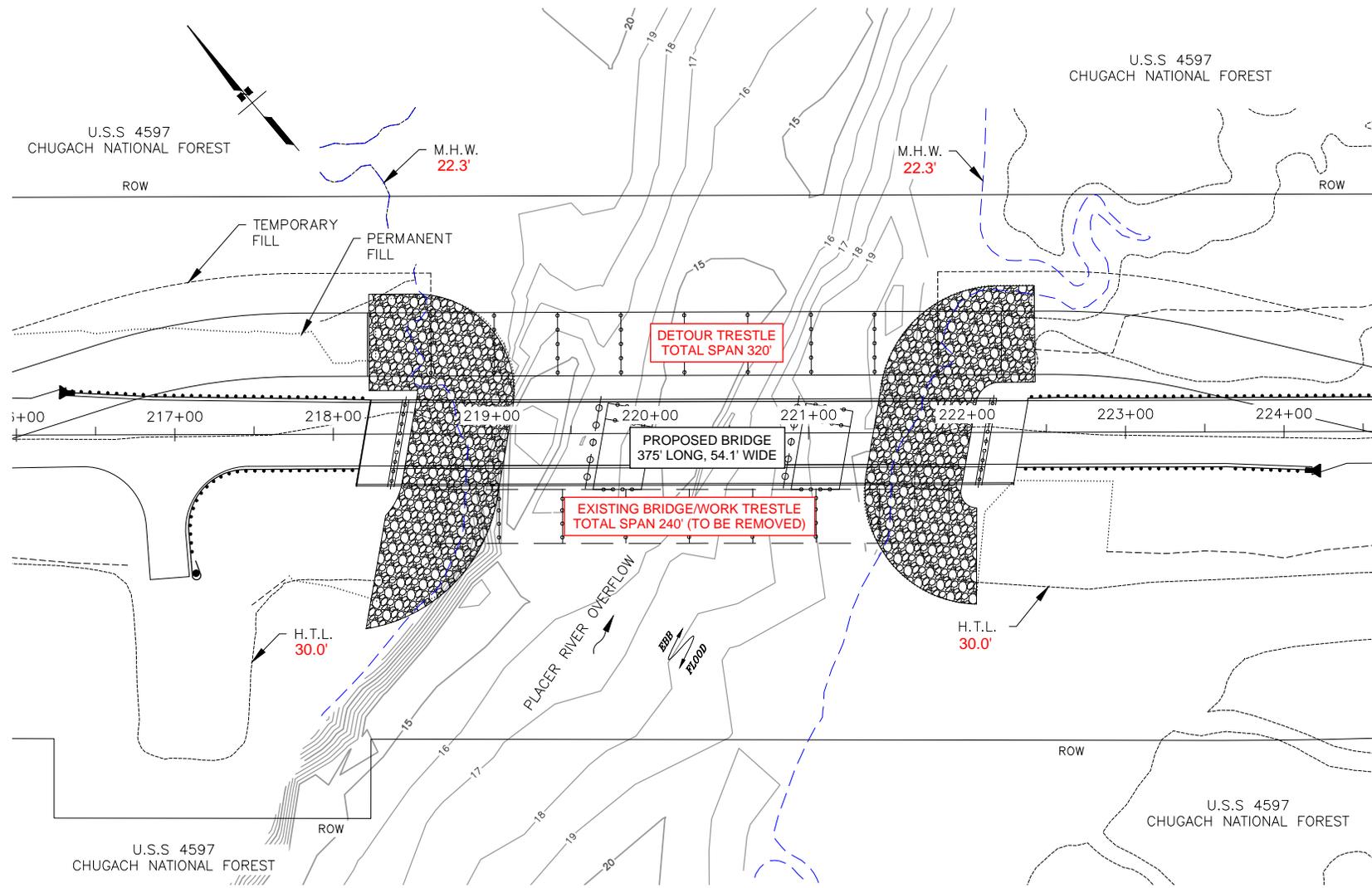
CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
PROPOSED BRIDGE: Placer River Overflow
WATERWAY: Placer River Overflow
LOCATION: Section 31, T9N, R3E
 Portage, Municipality of Anchorage, Alaska
 River Mile 0.78

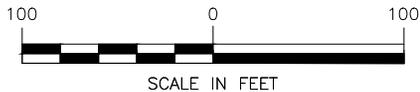
DATE: JANUARY, 2020

SHEET: 2 of 5



**PLACER RIVER OVERFLOW
EXISTING & PROPOSED BRIDGE LOCATIONS**

(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDE STAGE)



10' MINIMUM VERTICAL CLEARANCE DURING CONSTRUCTION
40' HORIZONTAL CLEARANCE DURING CONSTRUCTION
SEE SHEET 4 FOR TYPICAL SECTION

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	30.0	23.1
MHW	Tidal	22.3	15.4
Base River Flow	Riverine Flow	18.8	11.9
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

ABBREVIATIONS

- HTL HIGH TIDE LINE
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- NTS NOT TO SCALE
- ROW RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT

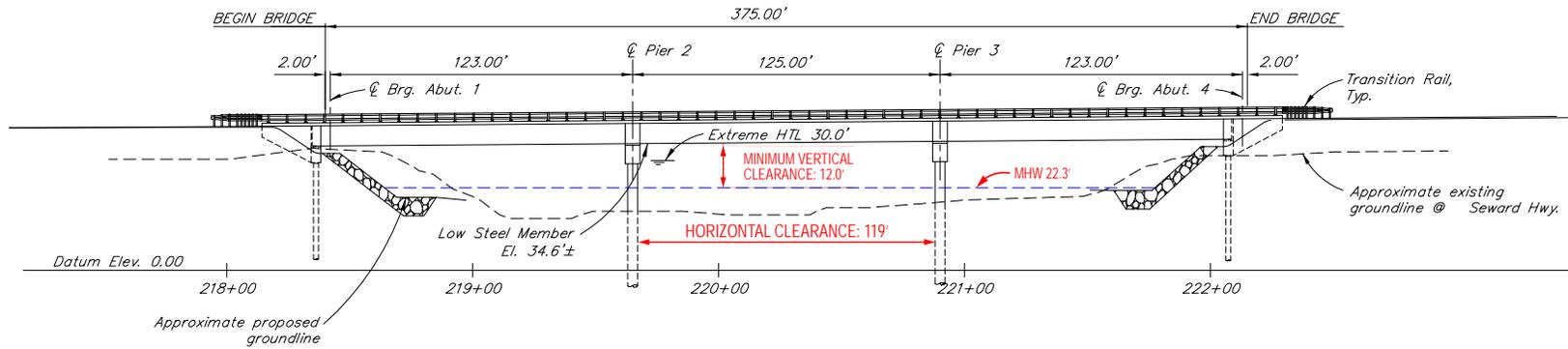


APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2

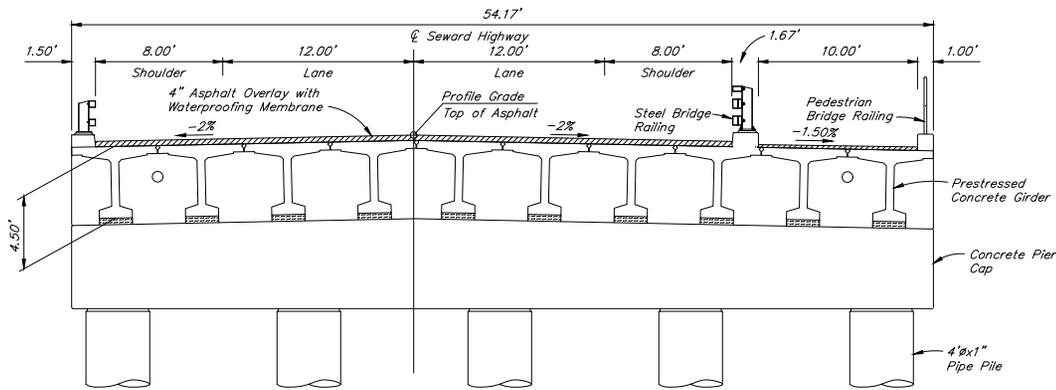
WATERWAY: Placer River Overflow
LOCATION: Section 31, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.78

DATE: JANUARY, 2020

SHEET: 3 of 5



**PLACER RIVER OVERFLOW
ELEVATION VIEW**
(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDAL INFORMATION)



TYPICAL SECTION

Total # 48" Piles ^a	10
#48" Piles Below MHW	10
#48" Piles Below HTL	10

^aNumber of permanent piles is estimated based upon anticipated conditions, actual number of piles will be based upon conditions at the time of construction.

Estimated permanent fill	0.48 Acres/
material placed below HTL	= 3896 cyds

NTS

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	30.0	23.1
MHW	Tidal	22.3	15.4
Base River Flow	Riverine Flow	18.8	11.9
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

ABBREVIATIONS

HTL	HIGH TIDE LINE
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
NTS	NOT TO SCALE
ROW	RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT

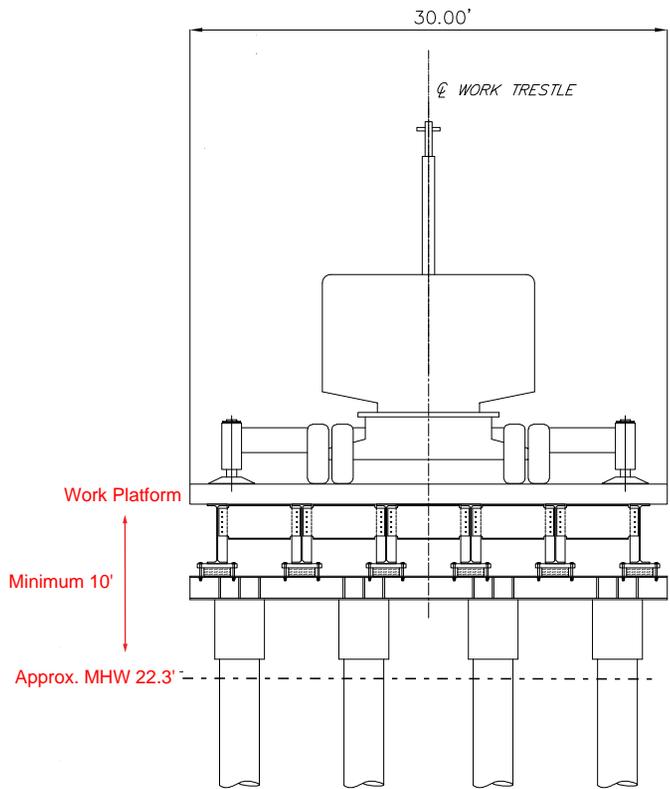


APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2

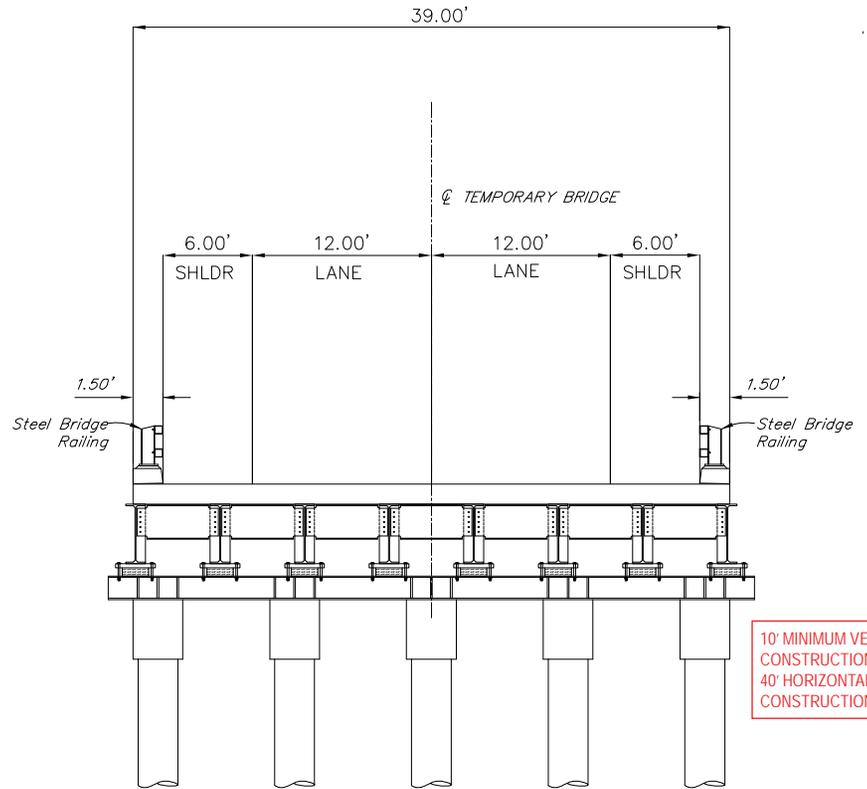
WATERWAY: Placer River Overflow
LOCATION: Section 31, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.78

DATE: JANUARY, 2020

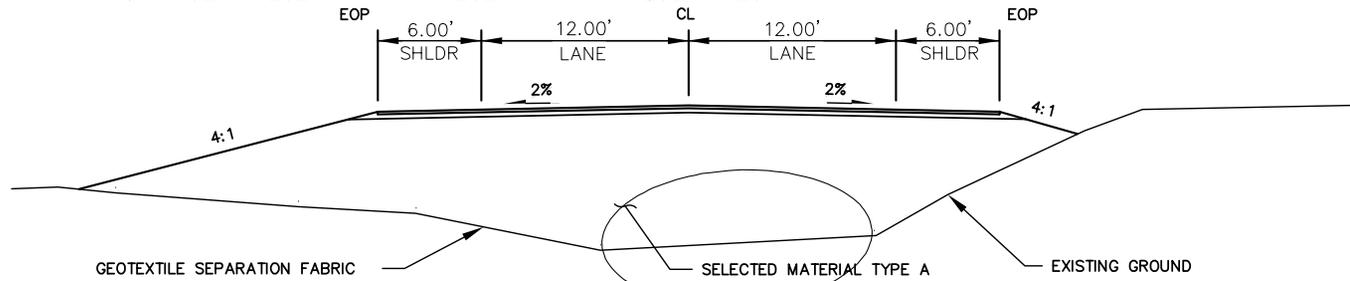
SHEET: 4 of 5



TYPICAL WORK TRESTLE SECTION



TYPICAL TEMPORARY BRIDGE SECTION



DETOUR TYPICAL

NTS

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	30.0	23.1
MHW	Tidal	22.3	15.4
Base River Flow	Riverine Flow	18.8	11.9
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

- ABBREVIATIONS**
- HTL HIGH TIDE LINE
 - MHW MEAN HIGH WATER
 - MLW MEAN LOW WATER
 - MLLW MEAN LOWER LOW WATER
 - NTS NOT TO SCALE
 - ROW RIGHT OF WAY



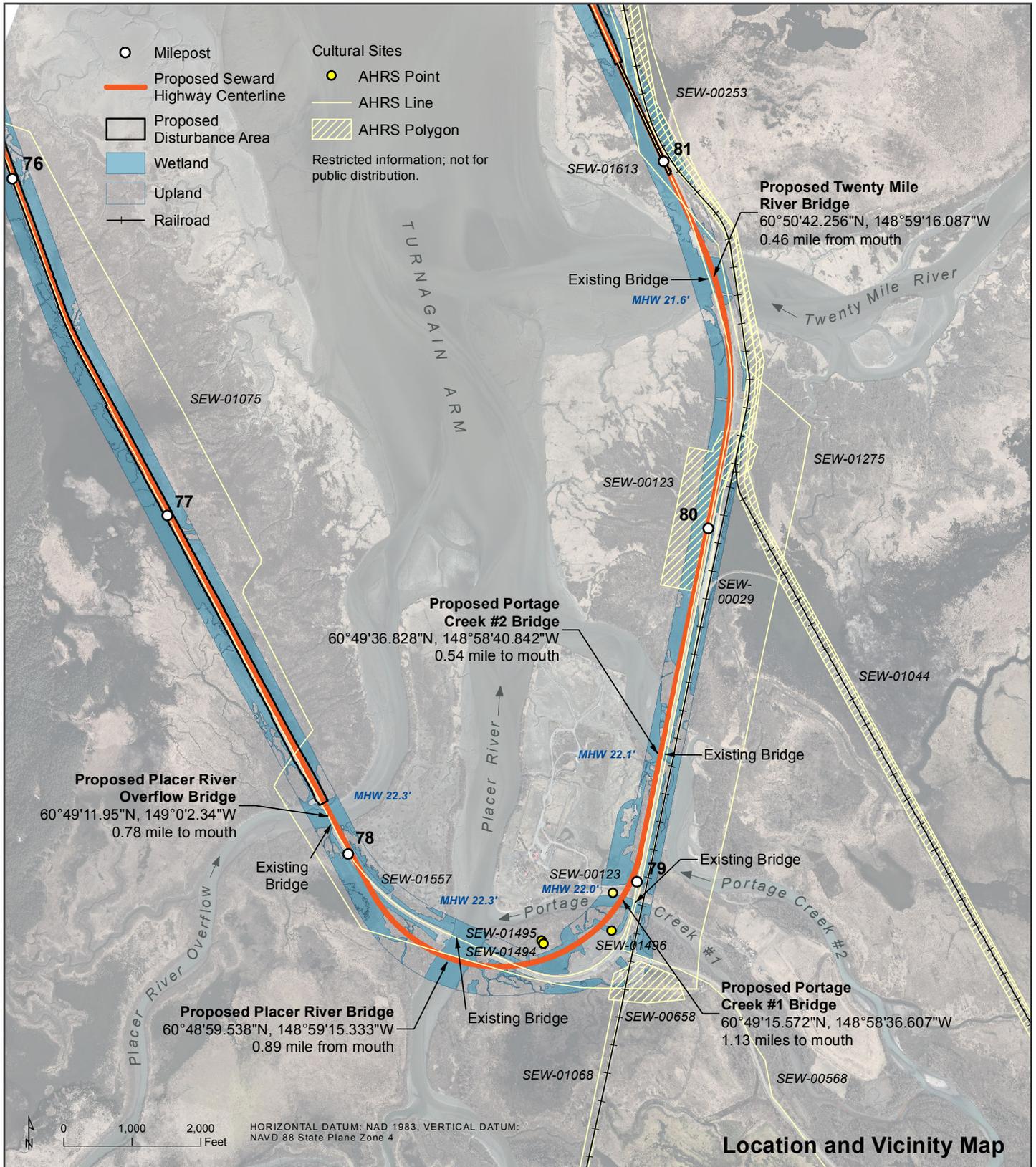
CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

WATERWAY: Placer River Overflow
LOCATION: Section 31, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.78



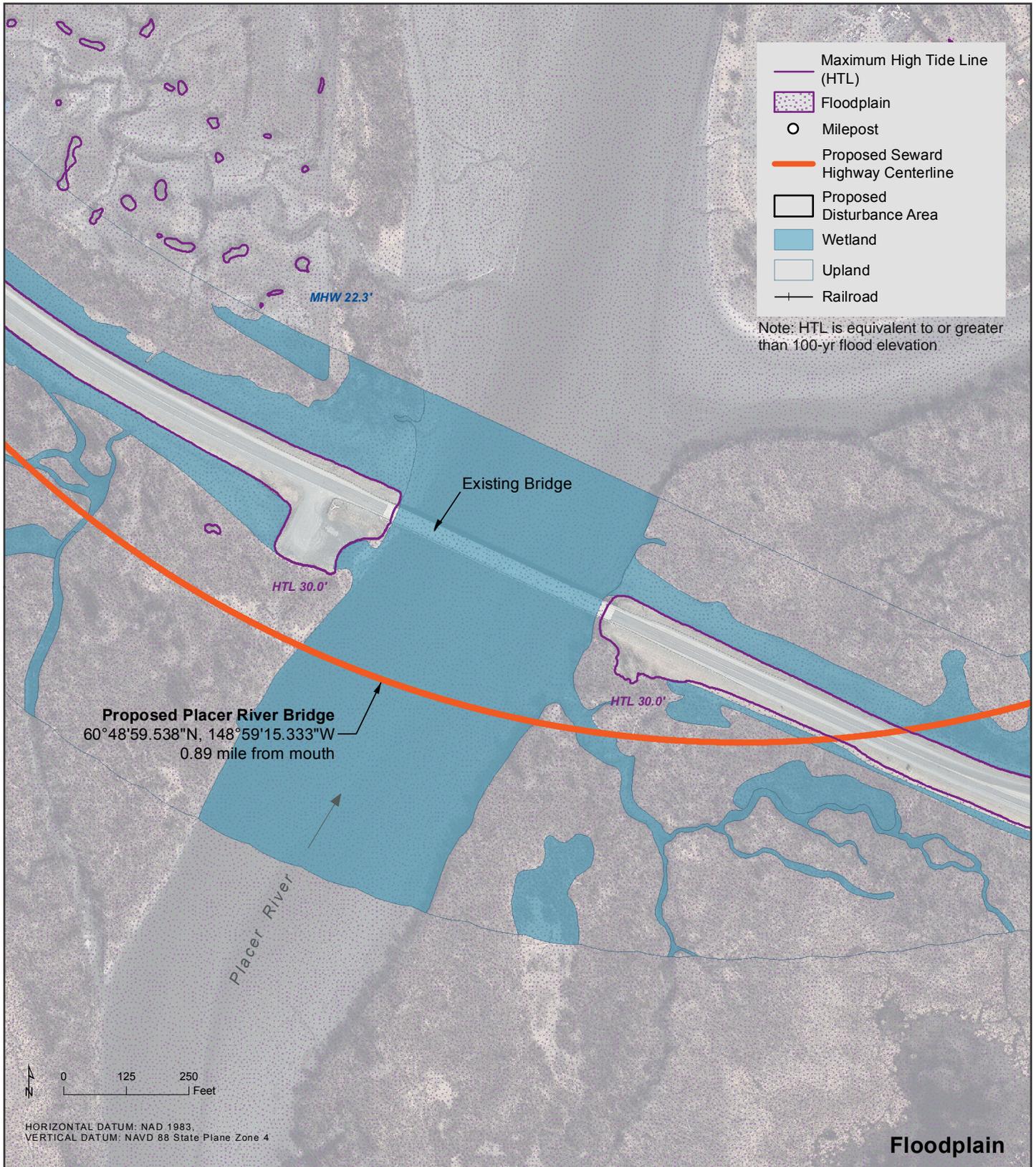
CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
PROPOSED BRIDGE: Placer River
WATERWAY: Placer River
LOCATION: Section 6, T8N, R3E Portage, Municipality of Anchorage, Alaska River Mile 0.89

DATE: JANUARY, 2020

SHEET: 1 of 5



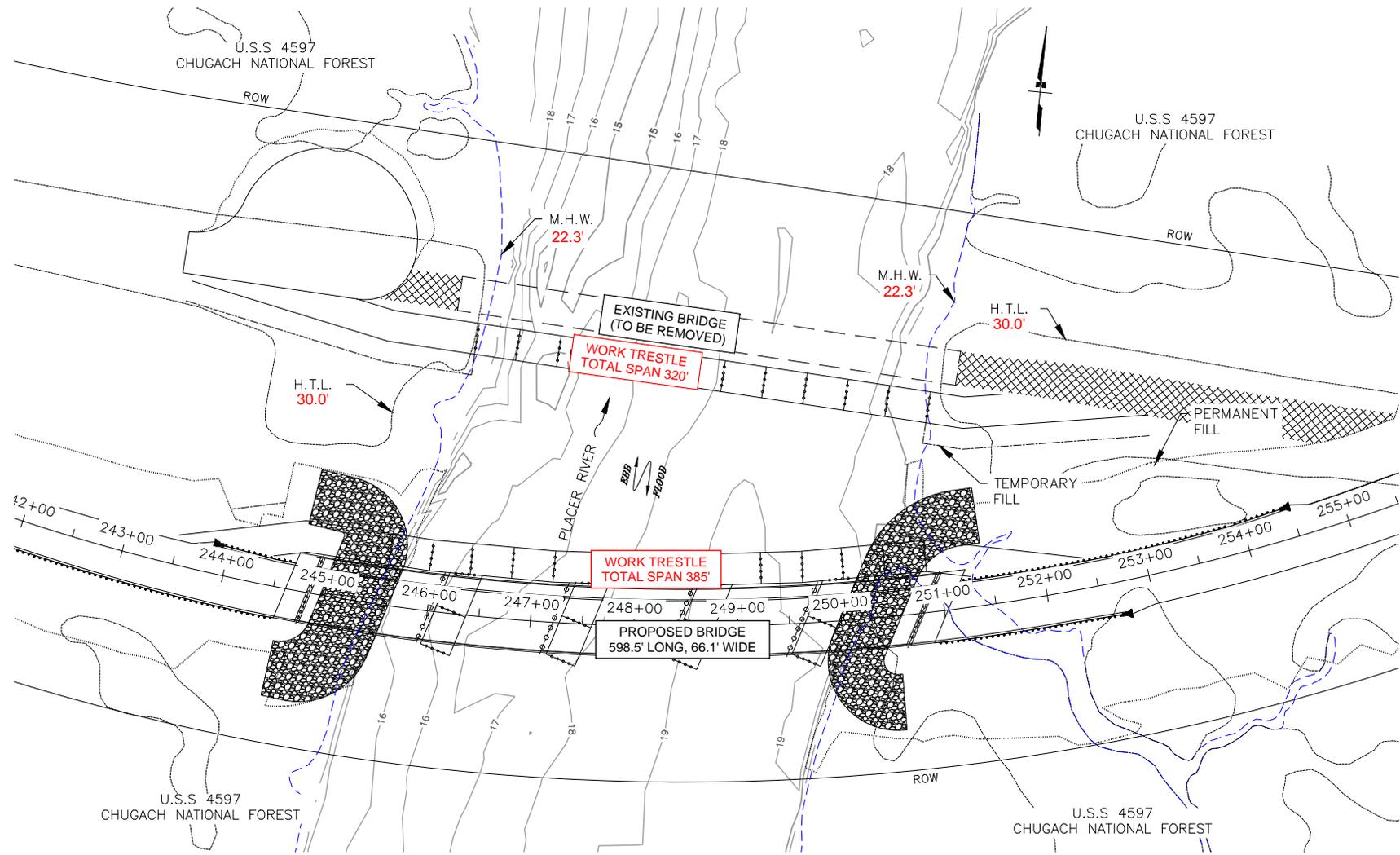
CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
PROPOSED BRIDGE: Placer River
WATERWAY: Placer River
LOCATION: Section 6, T8N, R3E Portage, Municipality of Anchorage, Alaska
 River Mile 0.89

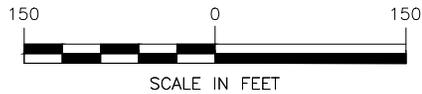
DATE: JANUARY, 2020

SHEET: 2 of 5



**PLACER RIVER
EXISTING & PROPOSED BRIDGE LOCATIONS**

(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDE STAGE)



**10' MINIMUM VERTICAL CLEARANCE DURING CONSTRUCTION
40' HORIZONTAL CLEARANCE DURING CONSTRUCTION
SEE SHEET 4 FOR TYPICAL SECTION**

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	30.0	23.1
MHW	Tidal	22.3	15.4
Base River Flow	Riverine Flow	18.8	11.9
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

ABBREVIATIONS

- HTL HIGH TIDE LINE
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- NTS NOT TO SCALE
- ROW RIGHT OF WAY



**CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT**

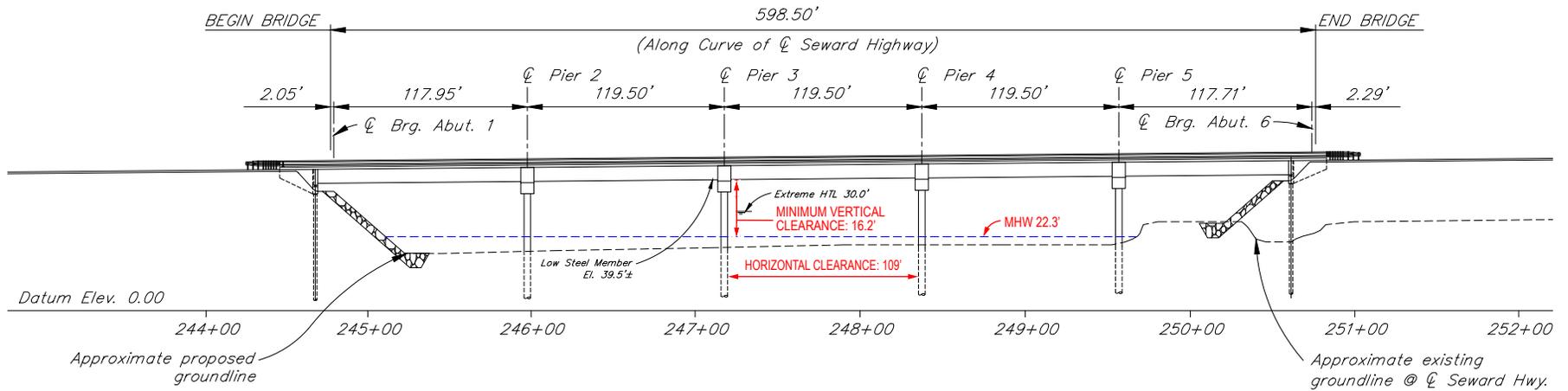


APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2

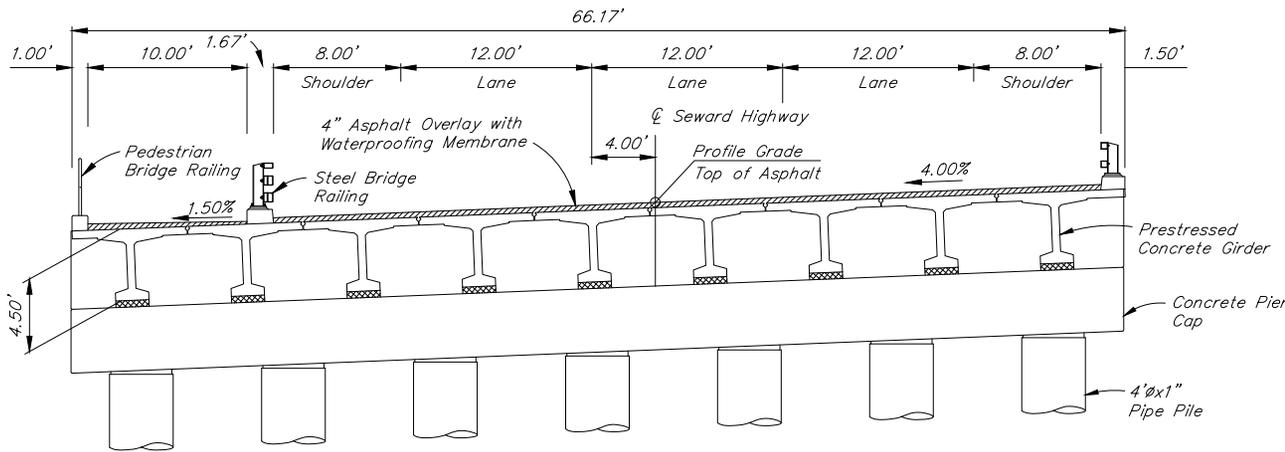
WATERWAY: Placer River
LOCATION: Section 6, T8N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.89

DATE: JANUARY, 2020

SHEET: 3 of 5



**PLACER RIVER
ELEVATION VIEW**



TYPICAL SECTION

Total # 48" Piles ^a	28
# 48" Piles Below MHW	28
# 48" Piles Below HTL	28

^a Number of permanent piles is estimated based upon anticipated conditions, actual number of piles will be based upon conditions at the time of construction.

Estimated permanent fill = 0.74 Acres/
material placed below HTL = 5977 cyds

NTS

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	30.0	23.1
MHW	Tidal	22.3	15.4
Base River Flow	Riverine Flow	18.8	11.9
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

ABBREVIATIONS

HTL	HIGH TIDE LINE
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
NTS	NOT TO SCALE
ROW	RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



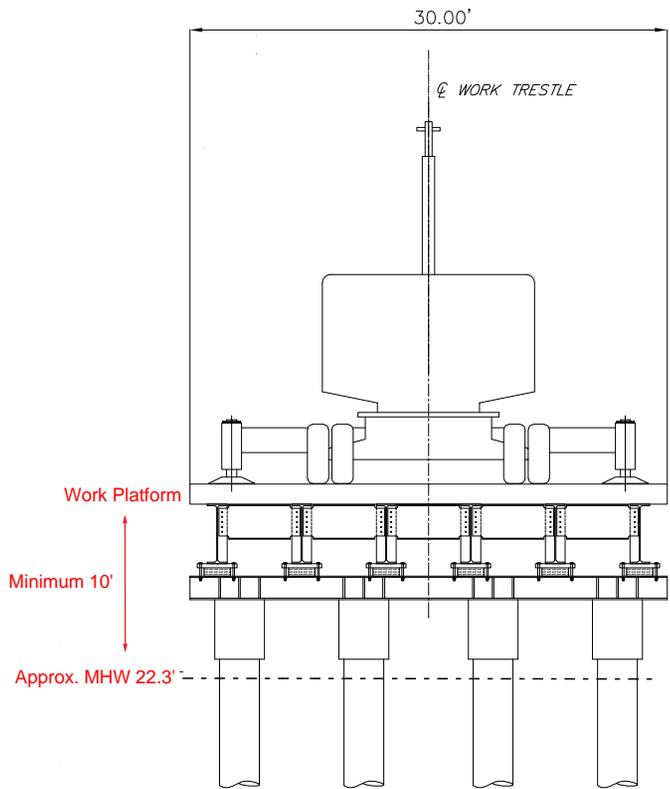
APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

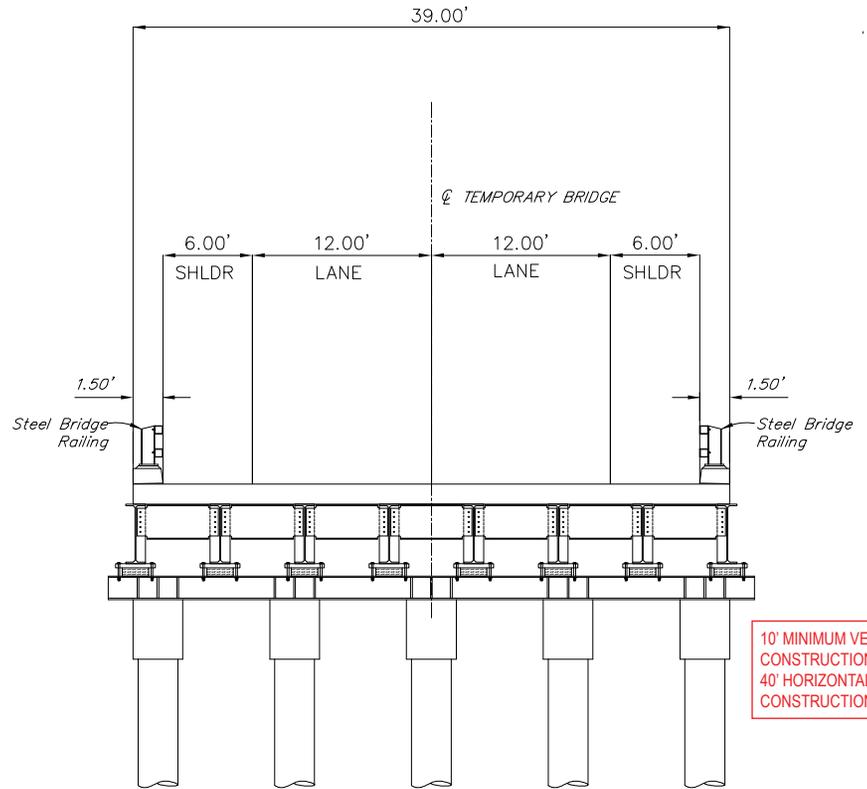
WATERWAY: Placer River
LOCATION: Section 6, T8N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.89

DATE: JANUARY, 2020

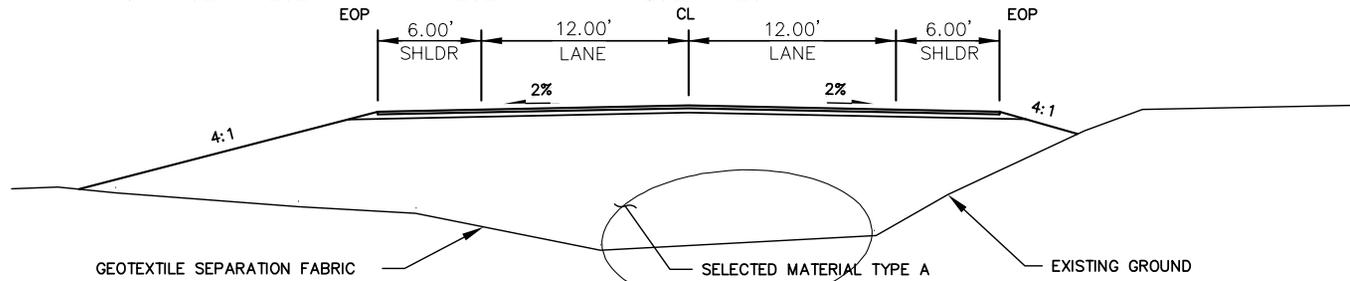
SHEET: 4 of 5



TYPICAL WORK TRESTLE SECTION



TYPICAL TEMPORARY BRIDGE SECTION



DETOUR TYPICAL

NTS

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	30.0	23.1
MHW	Tidal	22.3	15.4
Base River Flow	Riverine Flow	18.8	11.9
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

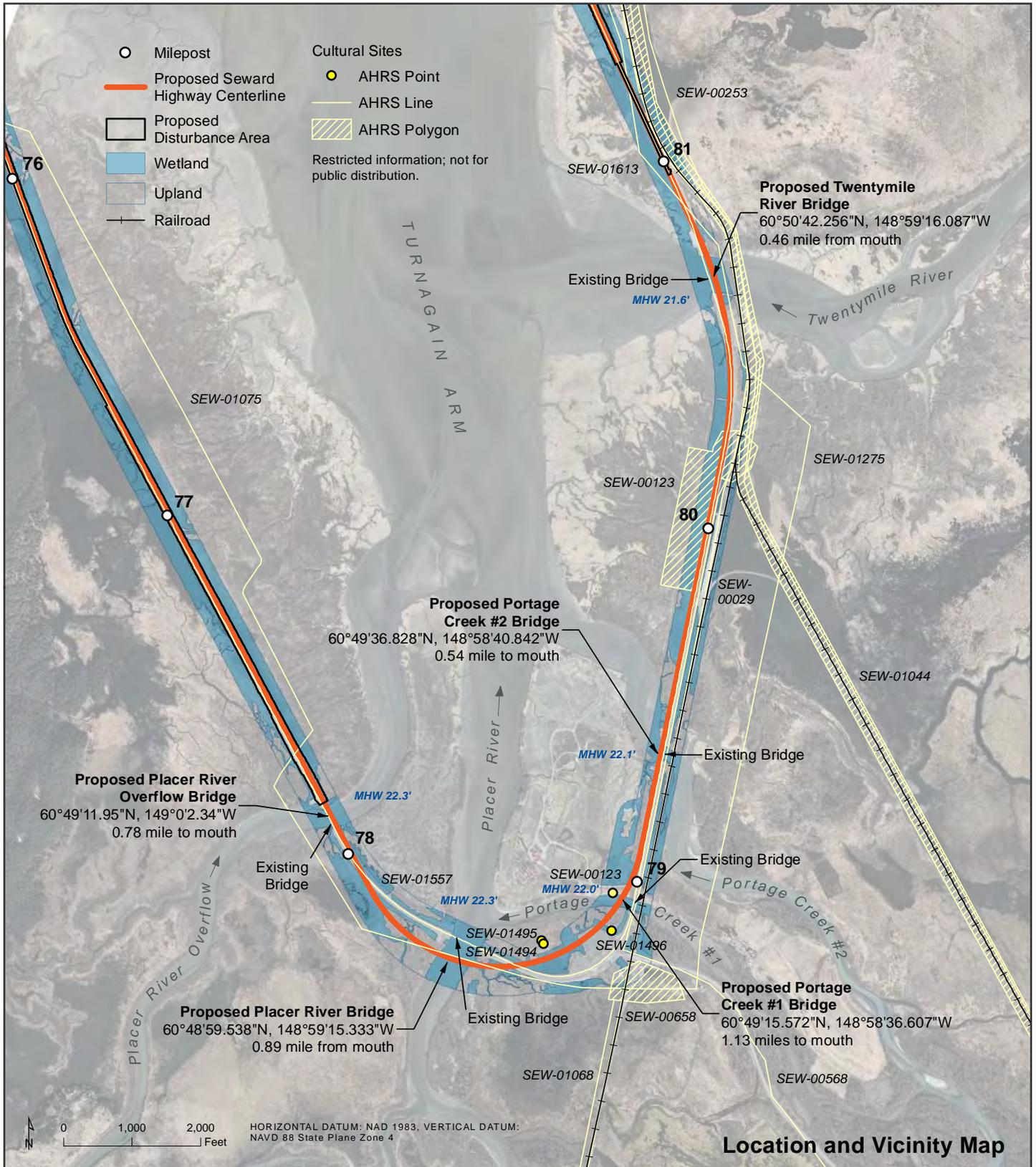
- ABBREVIATIONS**
- HTL HIGH TIDE LINE
 - MHW MEAN HIGH WATER
 - MLW MEAN LOW WATER
 - MLLW MEAN LOWER LOW WATER
 - NTS NOT TO SCALE
 - ROW RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
WATERWAY: Placer River
LOCATION: Section 6, T8N, R3E Portage, Municipality of Anchorage, Alaska River Mile 0.89



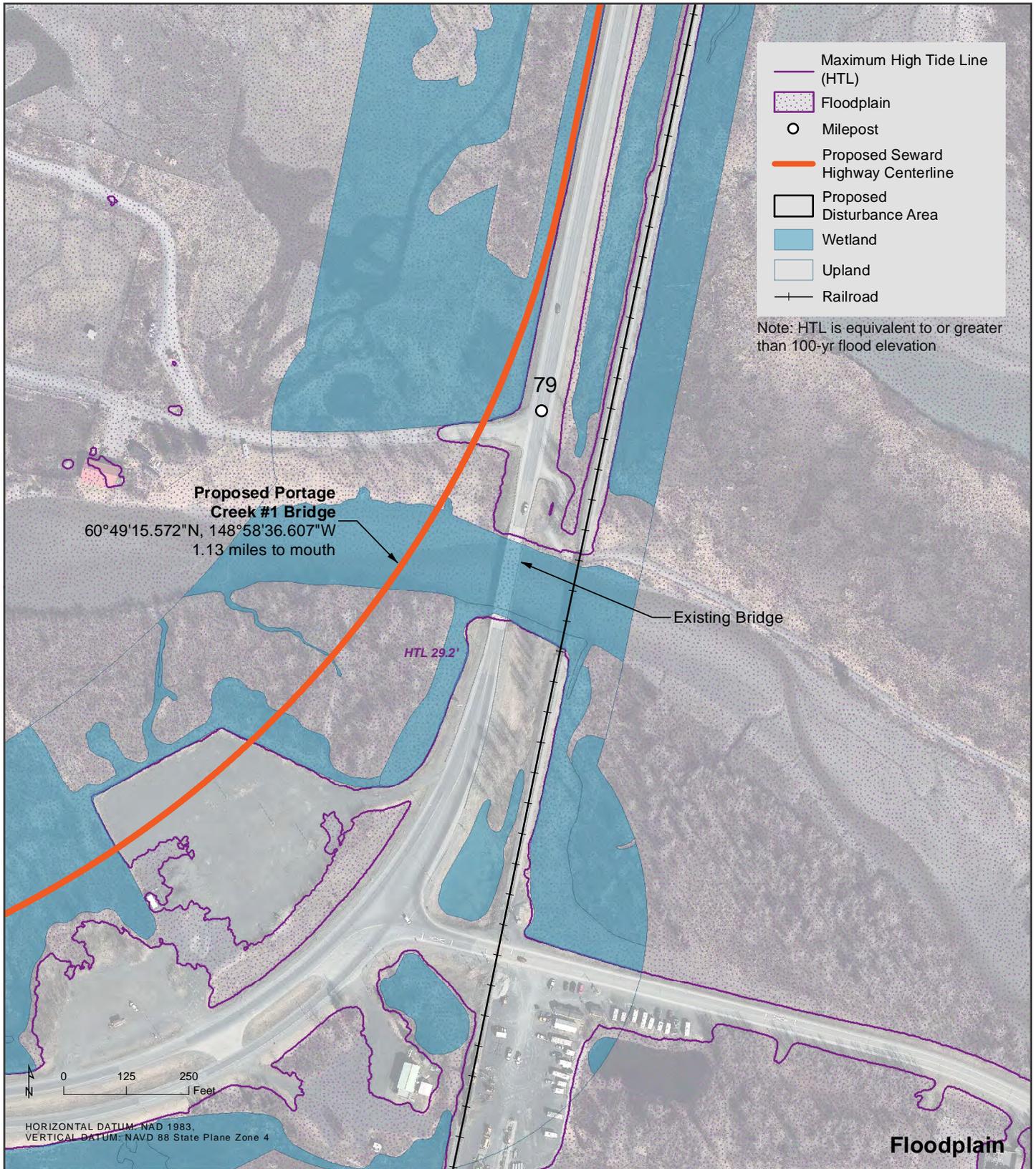
CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
PROPOSED BRIDGE: Portage Creek #1
WATERWAY: Portage Creek #1
LOCATION: Section 31, T9N, R3E
 Portage, Municipality of Anchorage, Alaska
 River Mile 1.13

DATE: JANUARY, 2020

SHEET: 1 of 5



CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

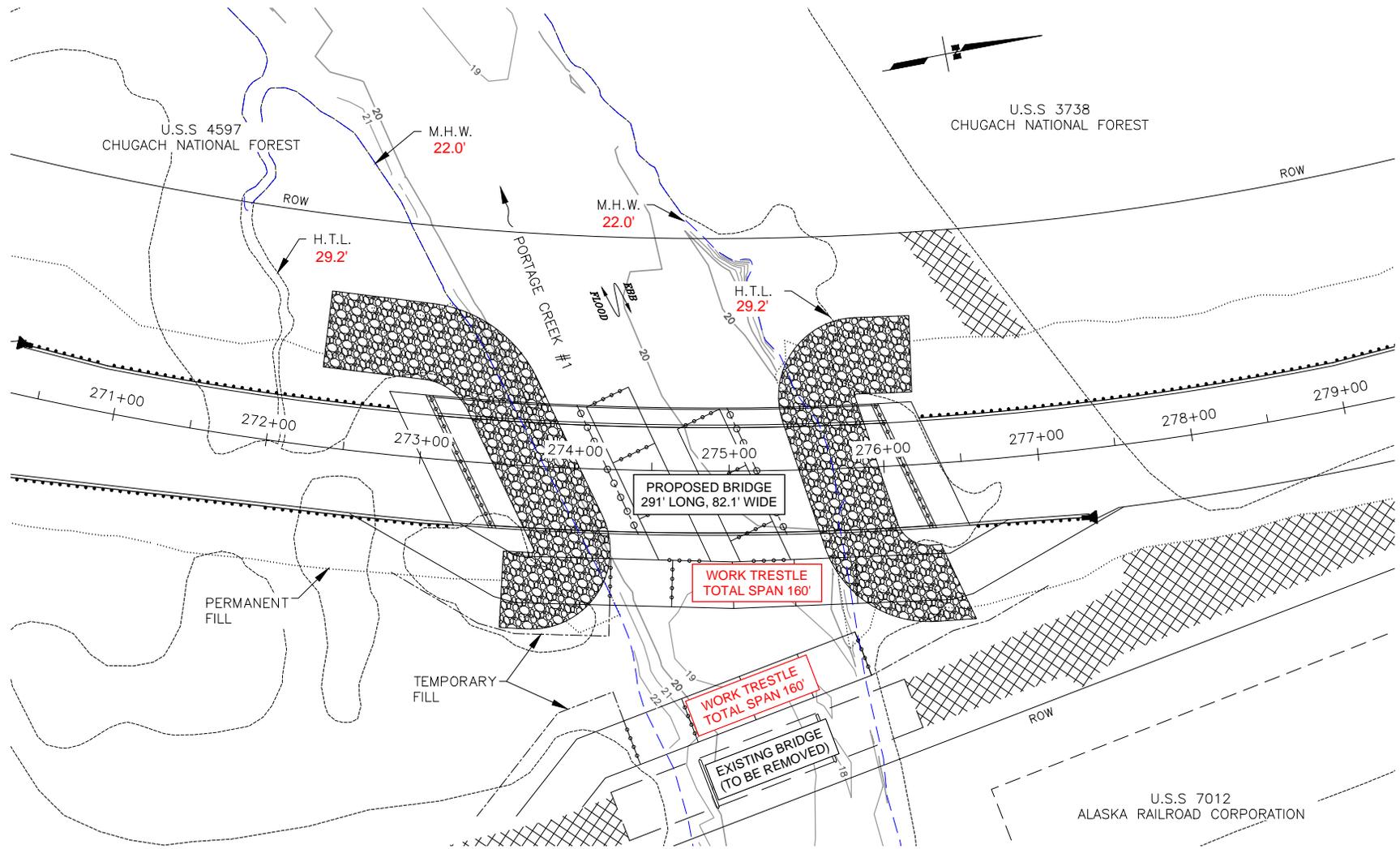
PROPOSED BRIDGE: Portage Creek #1

WATERWAY: Portage Creek #1

LOCATION: Section 31, T9N, R3E
 Portage, Municipality of Anchorage, Alaska
 River Mile 1.13

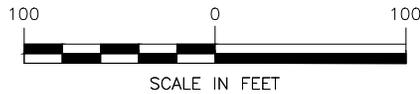
DATE: JANUARY, 2020

SHEET: 2 of 5



**PORTAGE CREEK #1
EXISTING & PROPOSED BRIDGE LOCATIONS**

(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDE STAGE)



10' MINIMUM VERTICAL CLEARANCE DURING CONSTRUCTION
40' HORIZONTAL CLEARANCE DURING CONSTRUCTION
SEE SHEET 4 FOR TYPICAL SECTION

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.2	22.3
MHW	Tidal	22.0	15.1
Base River Flow	Riverine Flow	19.9	13.0
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

ABBREVIATIONS

- HTL HIGH TIDE LINE
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- NTS NOT TO SCALE
- ROW RIGHT OF WAY

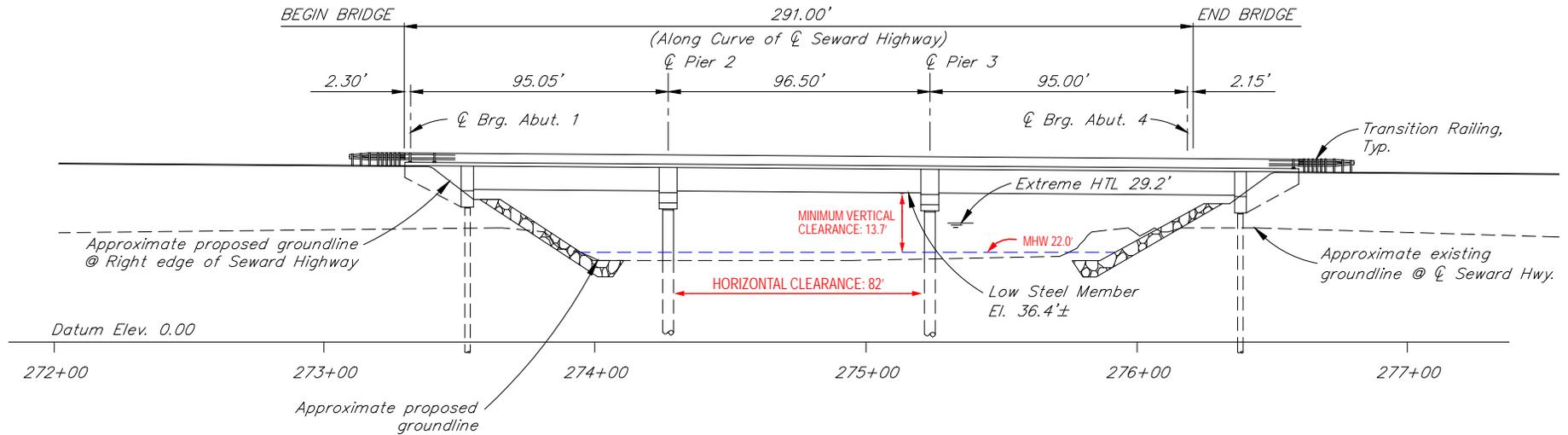


CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



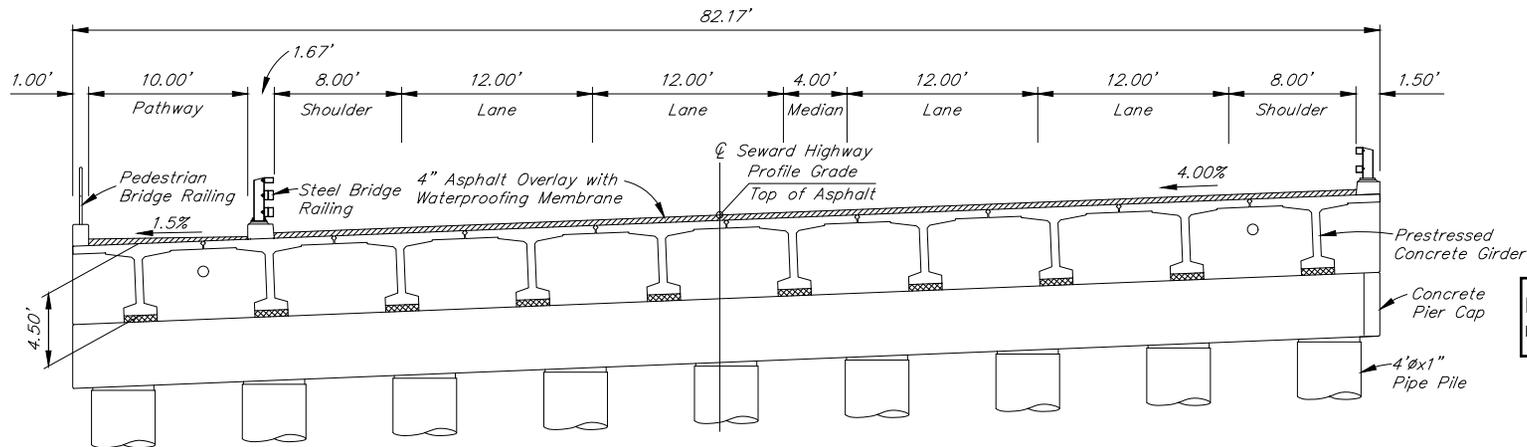
APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2

WATERWAY: Portage Creek #1
LOCATION: Section 31, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 1.13



**PORTAGE CREEK NO. 1
ELEVATION VIEW**

(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDAL INFORMATION)



TYPICAL SECTION

Total # 48" Piles ^a	18
#48" Piles Below MHW	18
#48" Piles Below HTL	18

^aNumber of permanent piles is estimated based upon anticipated conditions, actual number of piles will be based upon conditions at the time of construction.

Estimated permanent fill	0.35 Acres/
material placed below HTL	= 2839 cyds

NTS

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.2	22.3
MHW	Tidal	22.0	15.1
Base River Flow	Riverine Flow	19.9	13.0
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

ABBREVIATIONS

HTL	HIGH TIDE LINE
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
NTS	NOT TO SCALE
ROW	RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



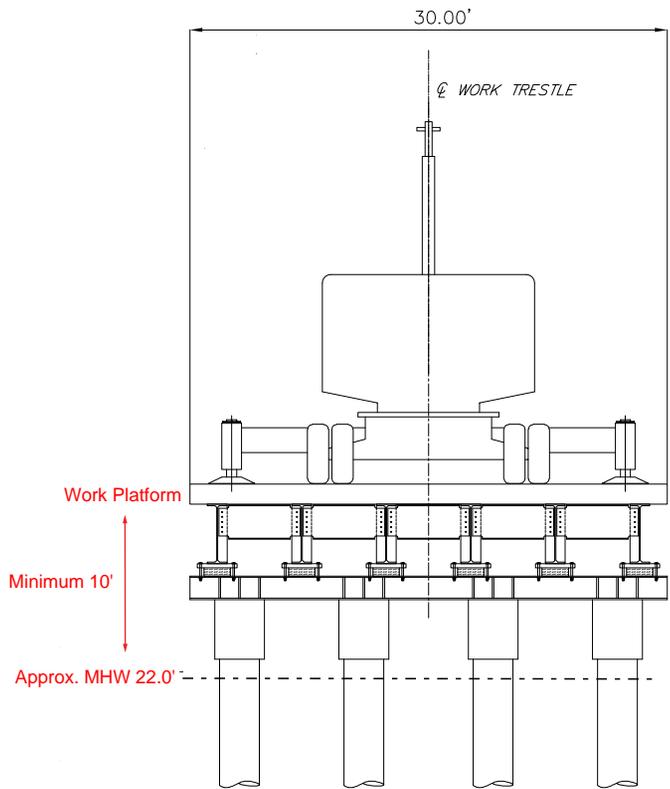
APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

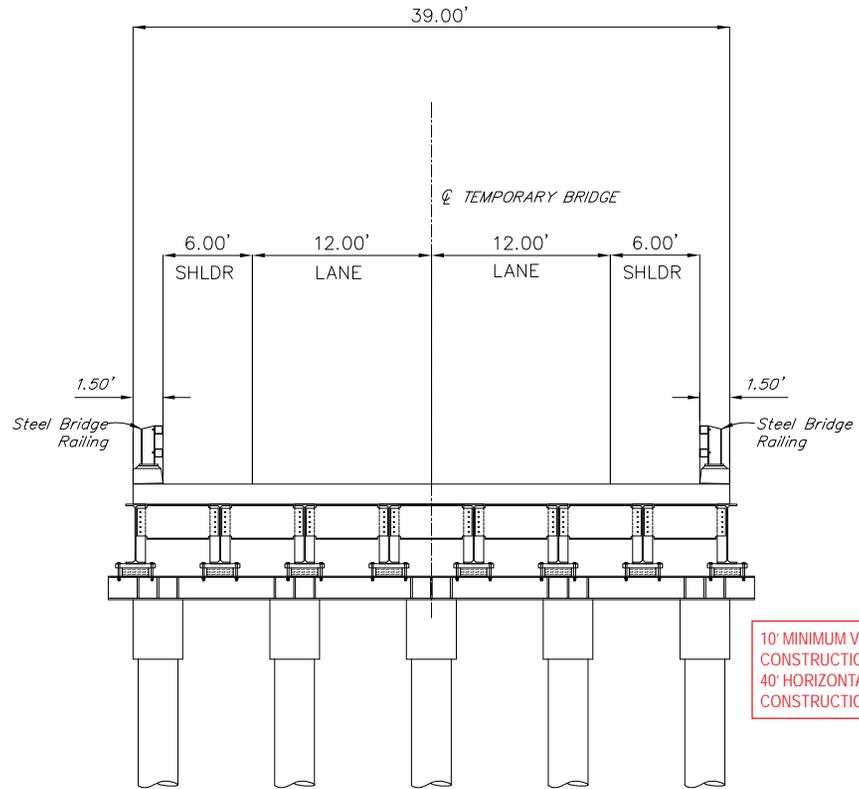
WATERWAY: Portage Creek #1
LOCATION: Section 31, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 1.13

DATE: JANUARY, 2020

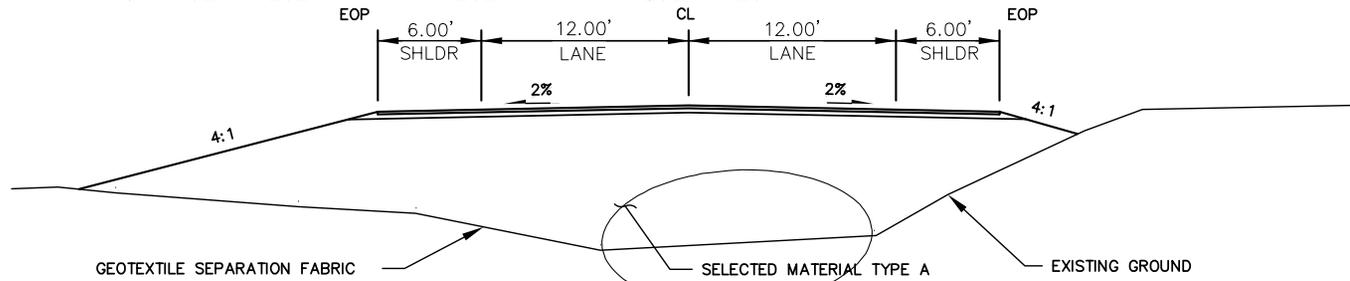
SHEET: 4 of 5



TYPICAL WORK TRESTLE SECTION



TYPICAL TEMPORARY BRIDGE SECTION



DETOUR TYPICAL

NTS

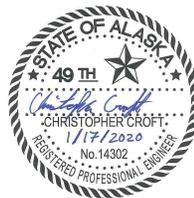
Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.2	22.3
MHW	Tidal	22.0	15.1
Base River Flow	Riverine Flow	19.9	13.0
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

ABBREVIATIONS

- HTL HIGH TIDE LINE
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- NTS NOT TO SCALE
- ROW RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



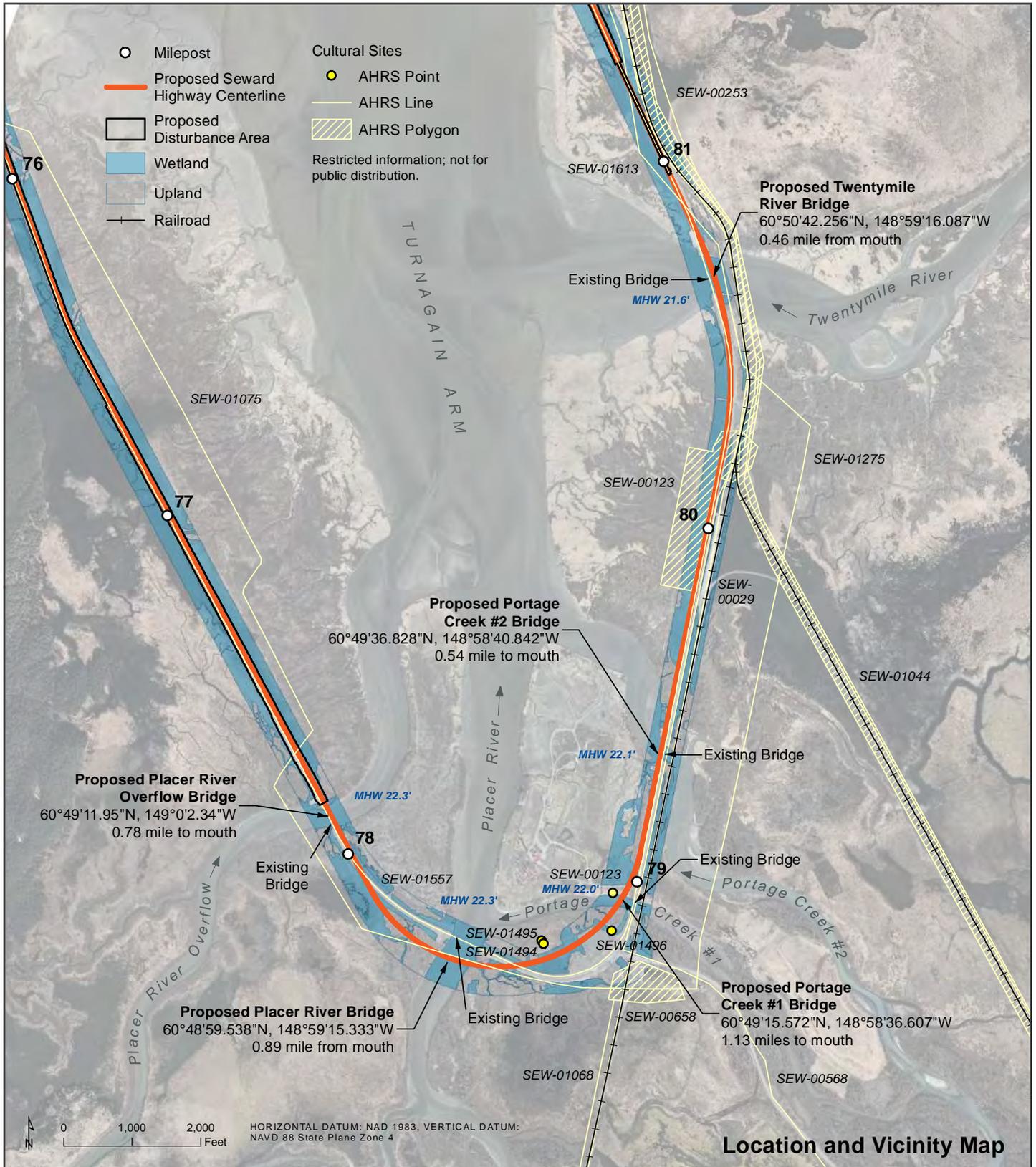
APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

WATERWAY: Portage Creek #1
LOCATION: Section 31, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 1.13

DATE: JANUARY, 2020

SHEET: 5 of 5



CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

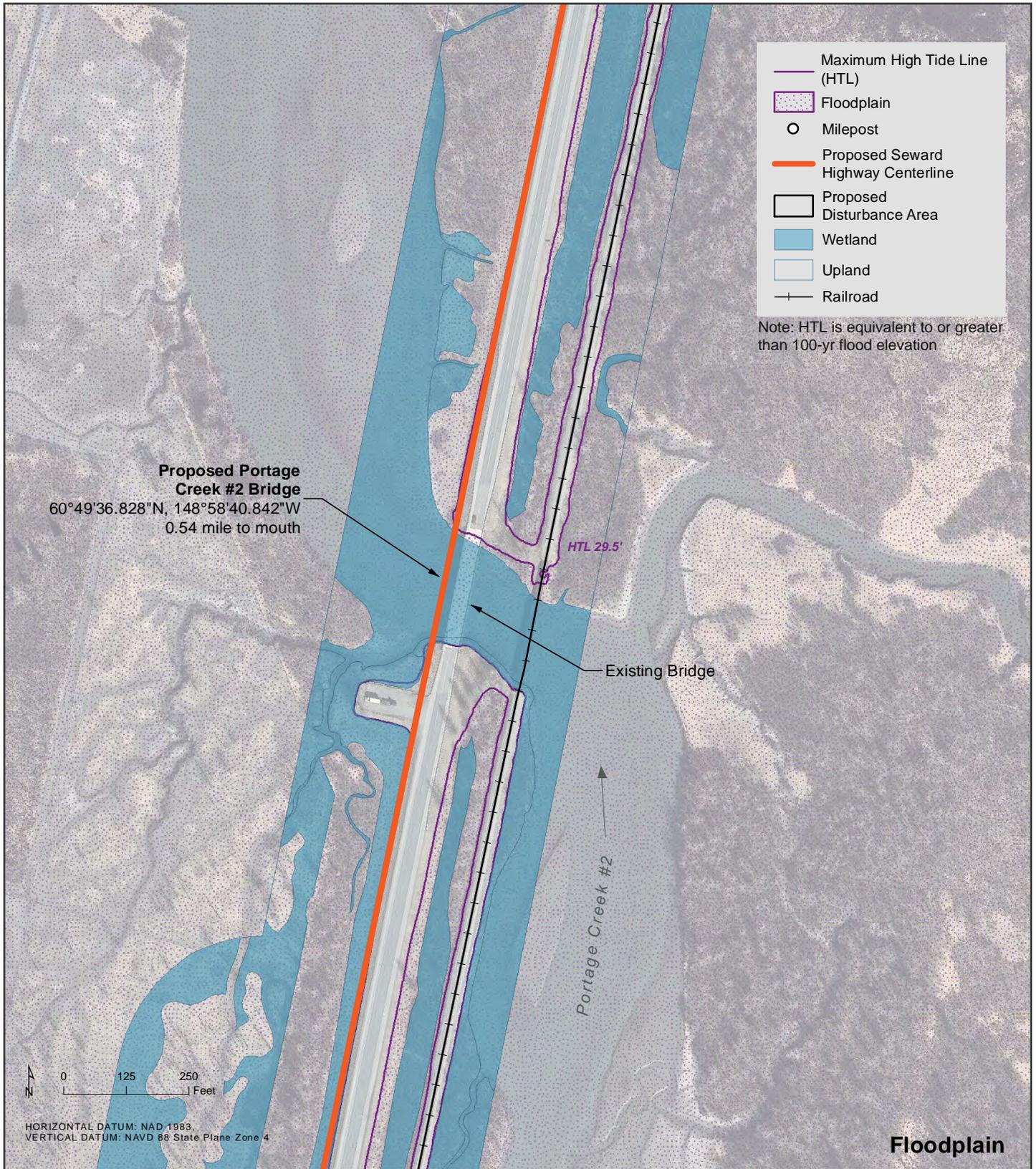
PROPOSED BRIDGE: Portage Creek #2

WATERWAY: Portage Creek #2

LOCATION: Section 31, T9N, R3E Portage, Municipality of Anchorage, Alaska River Mile 0.54

DATE: JANUARY, 2020

SHEET: 1 of 5



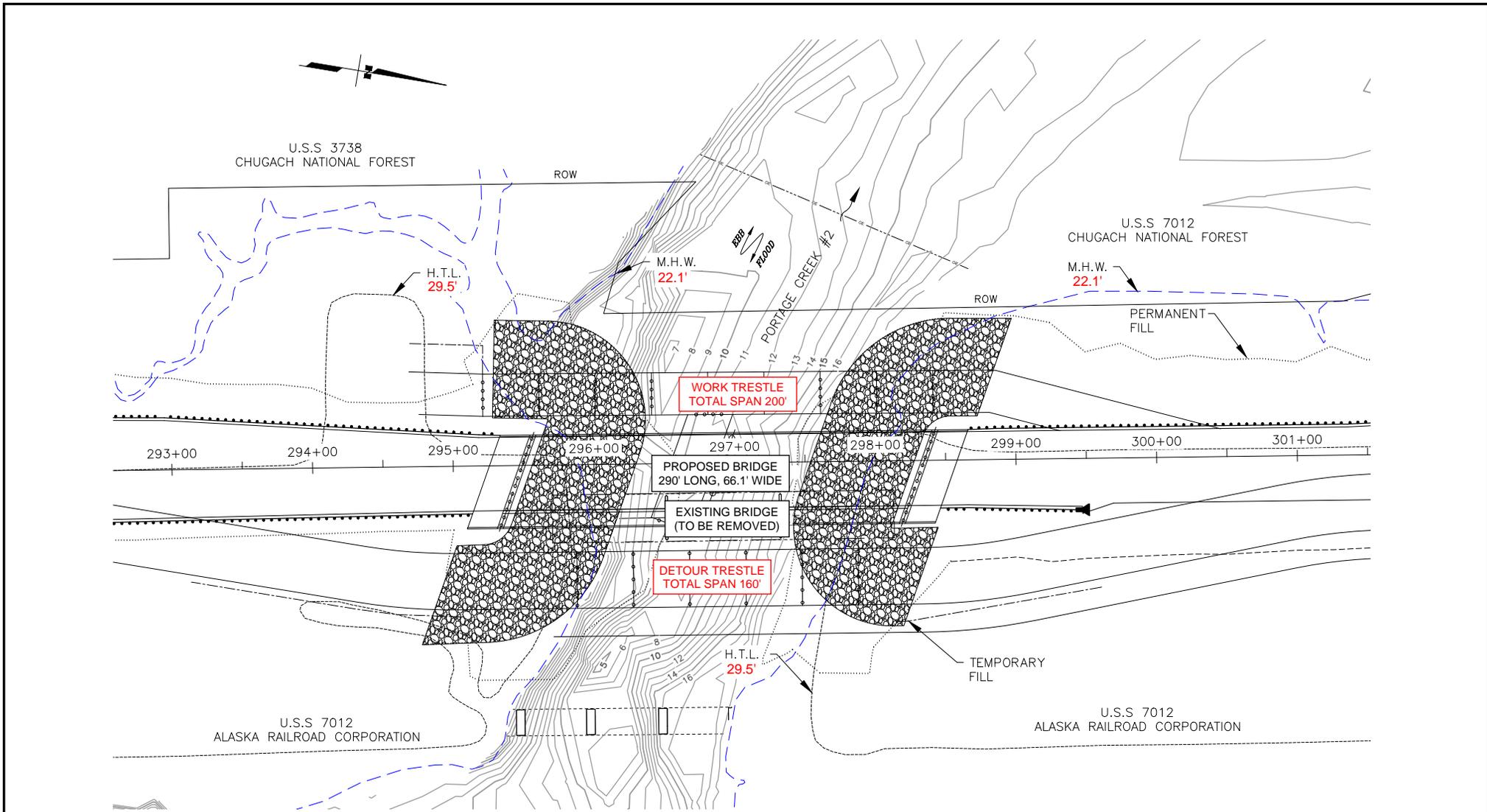
CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
PROPOSED BRIDGE: Portage Creek #2
WATERWAY: Portage Creek #2
LOCATION: Section 31, T9N, R3E
 Portage, Municipality of Anchorage, Alaska
 River Mile 0.54

DATE: JANUARY, 2020

SHEET: 2 of 5



**PORTAGE CREEK #2
EXISTING & PROPOSED BRIDGE LOCATIONS**

(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDE STAGE)

10' MINIMUM VERTICAL CLEARANCE DURING CONSTRUCTION
40' HORIZONTAL CLEARANCE DURING CONSTRUCTION
SEE SHEET 4 FOR TYPICAL SECTION

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.5	22.6
MHW	Tidal	22.1	15.2
Base River Flow	Riverine Flow	17.7	10.8
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

ABBREVIATIONS

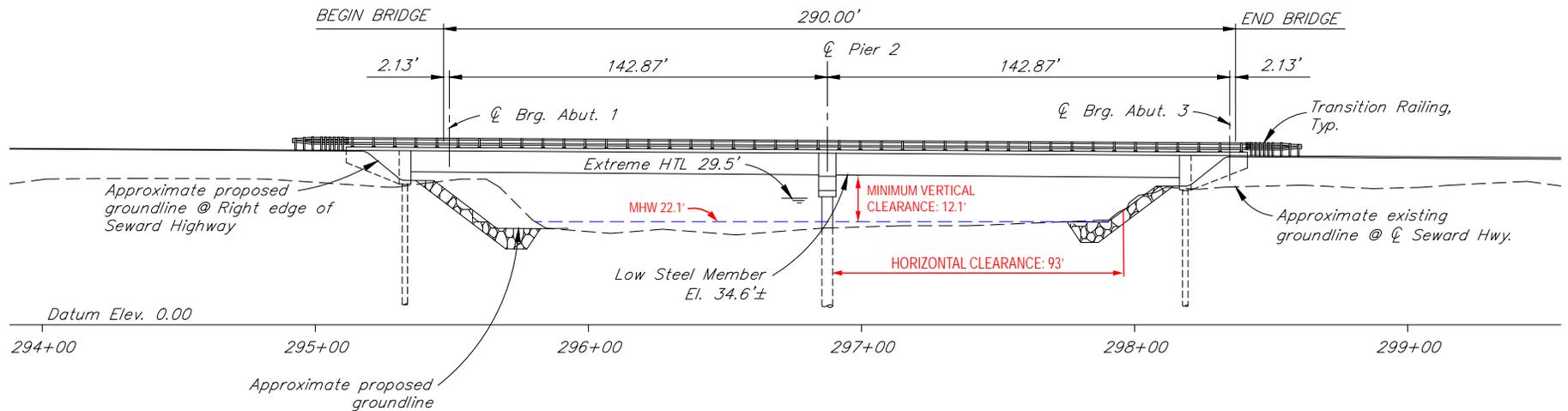
- HTL HIGH TIDE LINE
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- NTS NOT TO SCALE
- ROW RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT

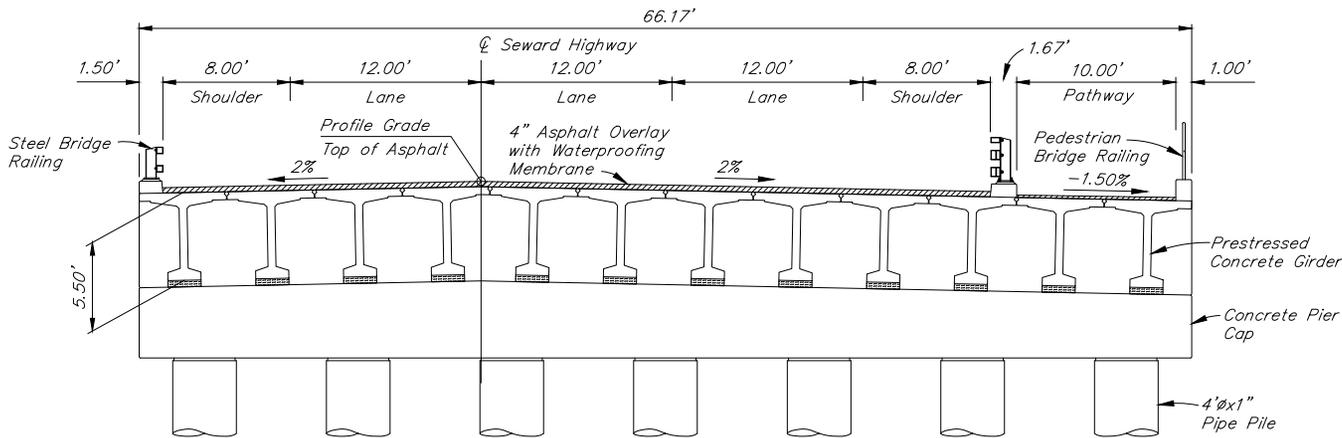


APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
WATERWAY: Portage Creek #2
LOCATION: Section 31, T9N, R3E
 Portage, Municipality of Anchorage, Alaska
 River Mile 0.54



**PORTAGE CREEK NO. 2
ELEVATION VIEW**

(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDAL INFORMATION)



TYPICAL SECTION

Total # 48" Piles ^a	7
#48" Piles Below MHW	7
#48" Piles Below HTL	7

^aNumber of permanent piles is estimated based upon anticipated conditions, actual number of piles will be based upon conditions at the time of construction.

Estimated permanent fill	0.74 Acres/
material placed below HTL	= 5993 cyds

NTS

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.5	22.6
MHW	Tidal	22.1	15.2
Base River Flow	Riverine Flow	17.7	10.8
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

HORIZONTAL DATUM: NAD 1983, VERTICAL DATUM: NAVD 88

ABBREVIATIONS	
HTL	HIGH TIDE LINE
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
NTS	NOT TO SCALE
ROW	RIGHT OF WAY



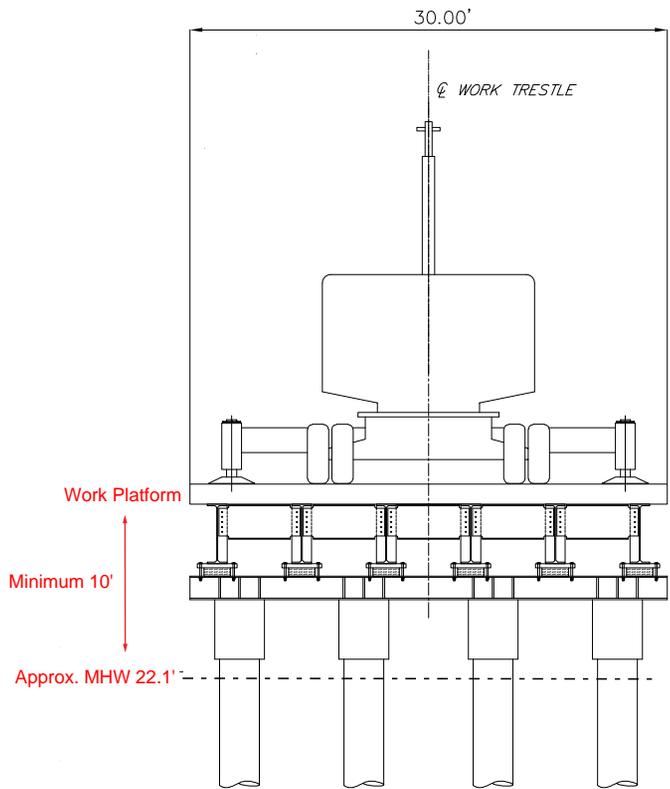
CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



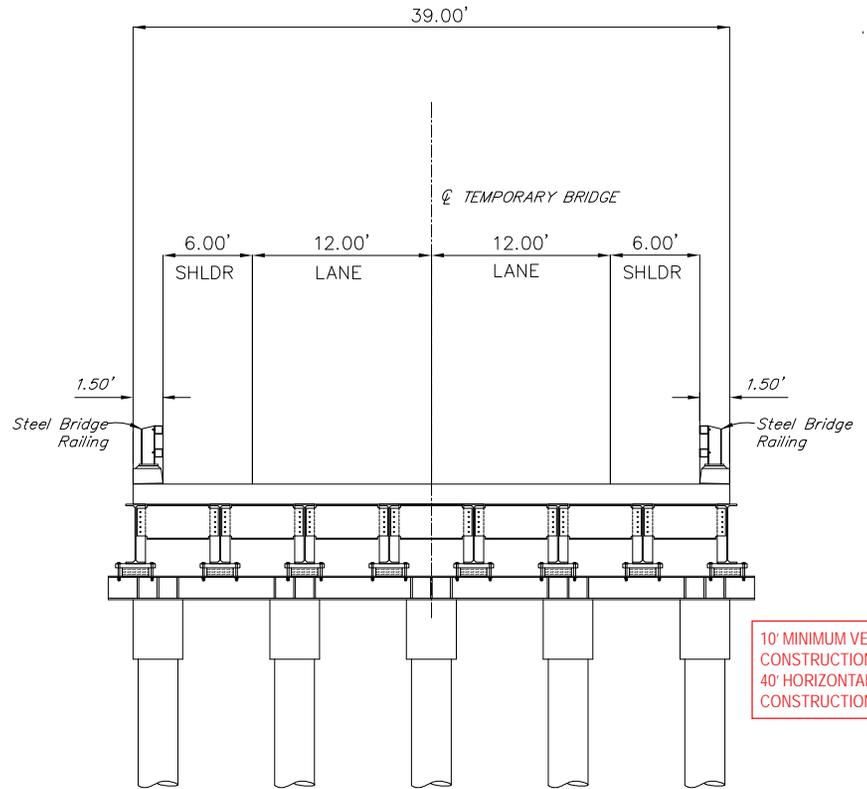
APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
WATERWAY: Portage Creek #2
LOCATION: Section 31, T9N, R3E
 Portage, Municipality of Anchorage, Alaska
 River Mile 0.54

DATE: JANUARY, 2020

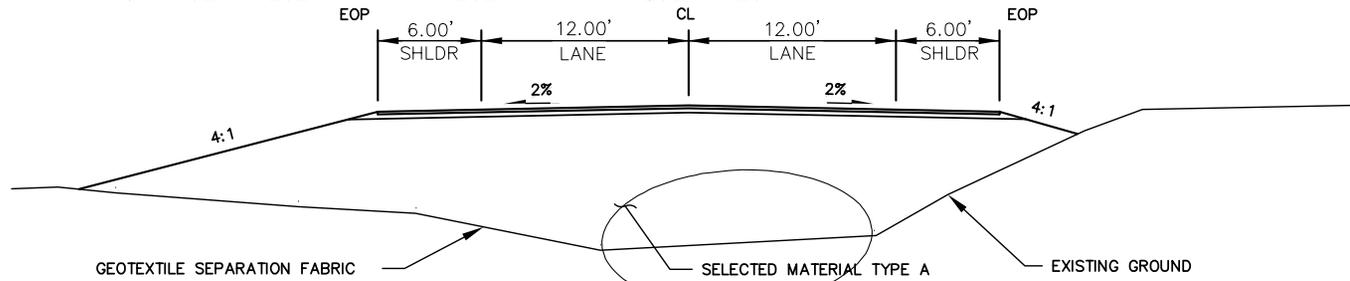
SHEET: 4 of 5



TYPICAL WORK TRESTLE SECTION



TYPICAL TEMPORARY BRIDGE SECTION



DETOUR TYPICAL

NTS

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.5	22.6
MHW	Tidal	22.1	15.2
Base River Flow	Riverine Flow	17.7	10.8
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

HORIZONTAL DATUM: NAD 1983, VERTICAL DATUM: NAVD 88

ABBREVIATIONS

- HTL HIGH TIDE LINE
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- NTS NOT TO SCALE
- ROW RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



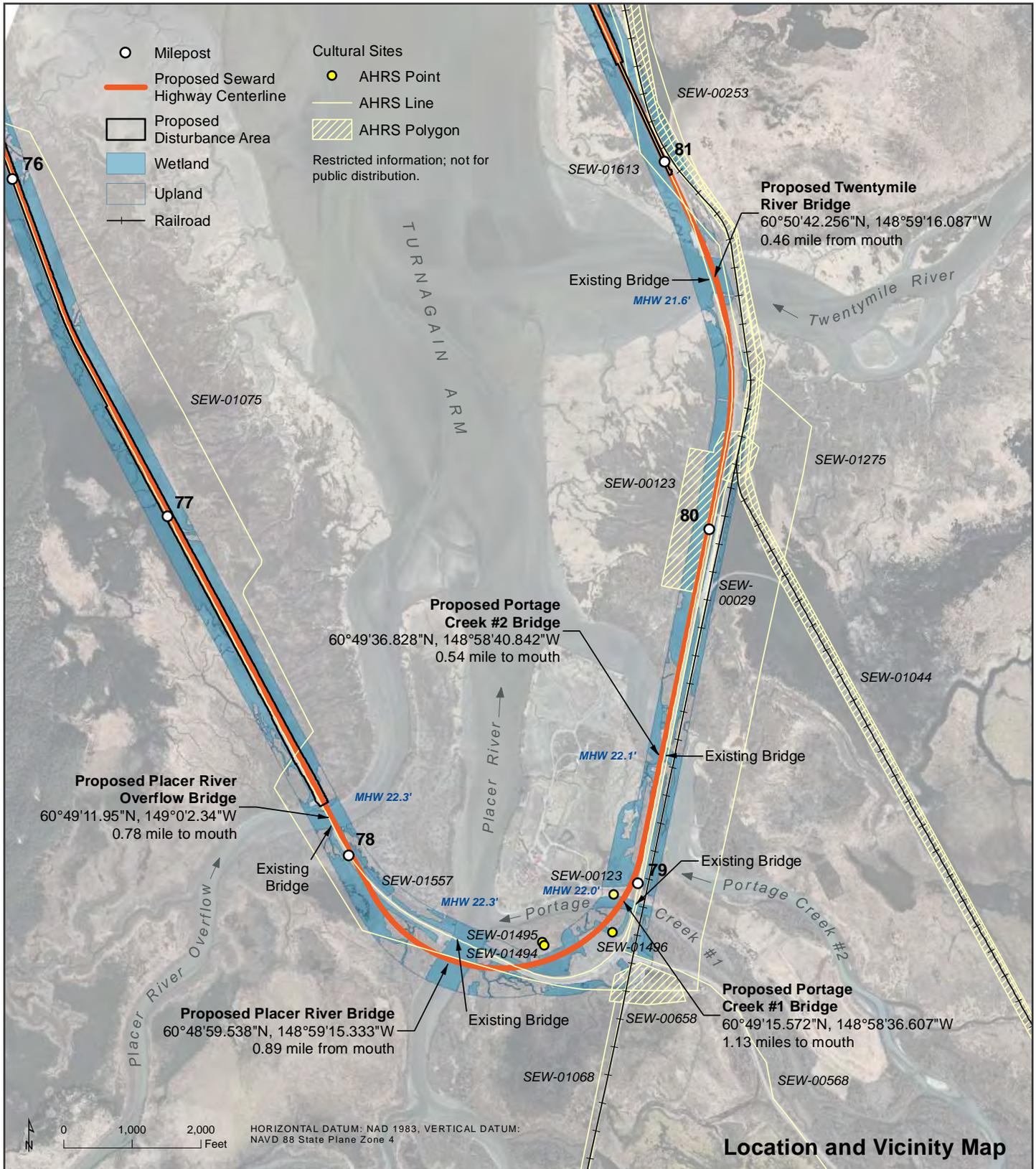
APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

WATERWAY: Portage Creek #2
LOCATION: Section 31, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.54

DATE: JANUARY, 2020

SHEET: 5 of 5



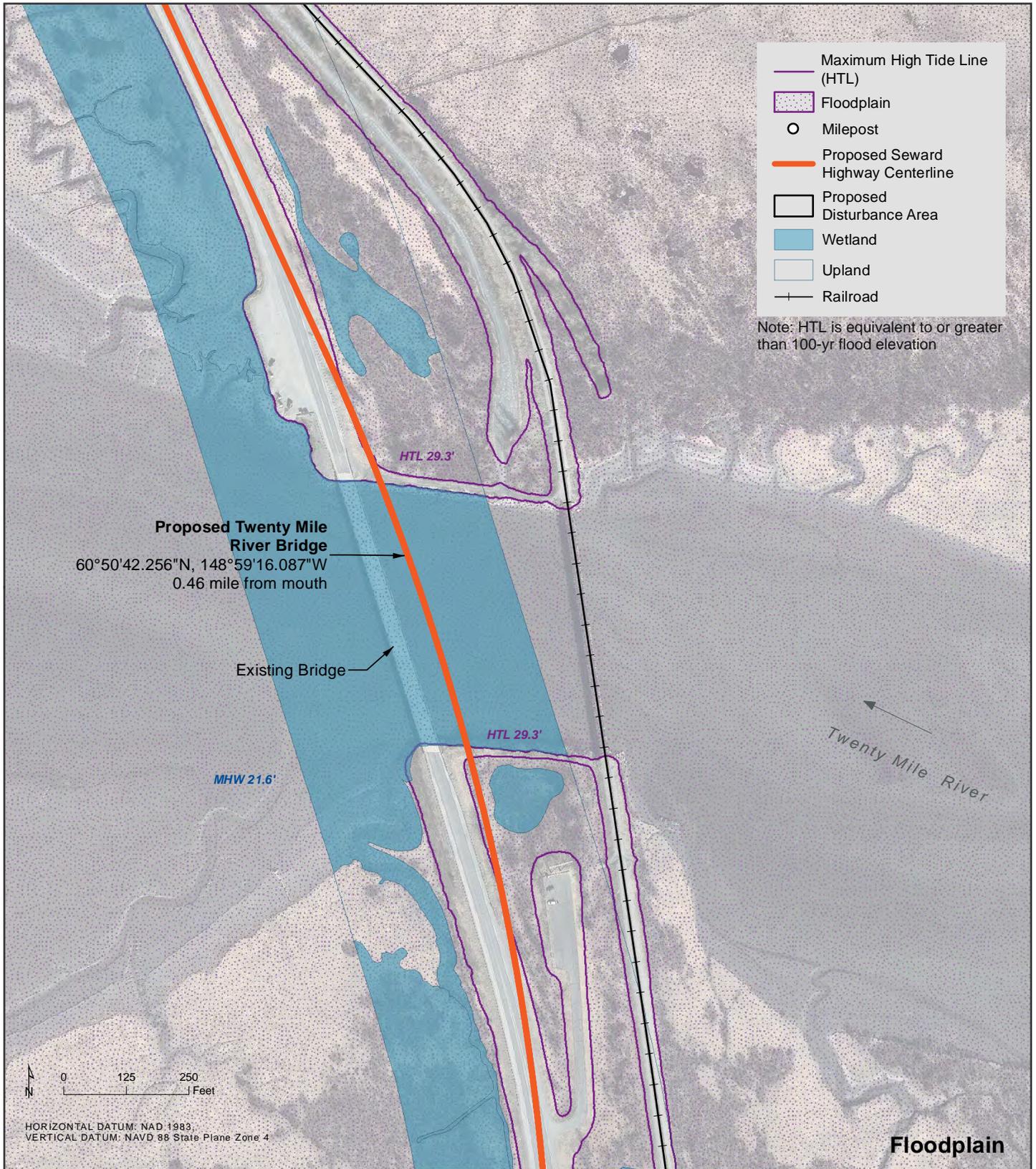
CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
PROPOSED BRIDGE: Twenty Mile River
WATERWAY: Twenty Mile River
LOCATION: Section 30, T9N, R3E Portage, Municipality of Anchorage, Alaska River Mile 0.46

DATE: JANUARY, 2020

SHEET: 1 of 5



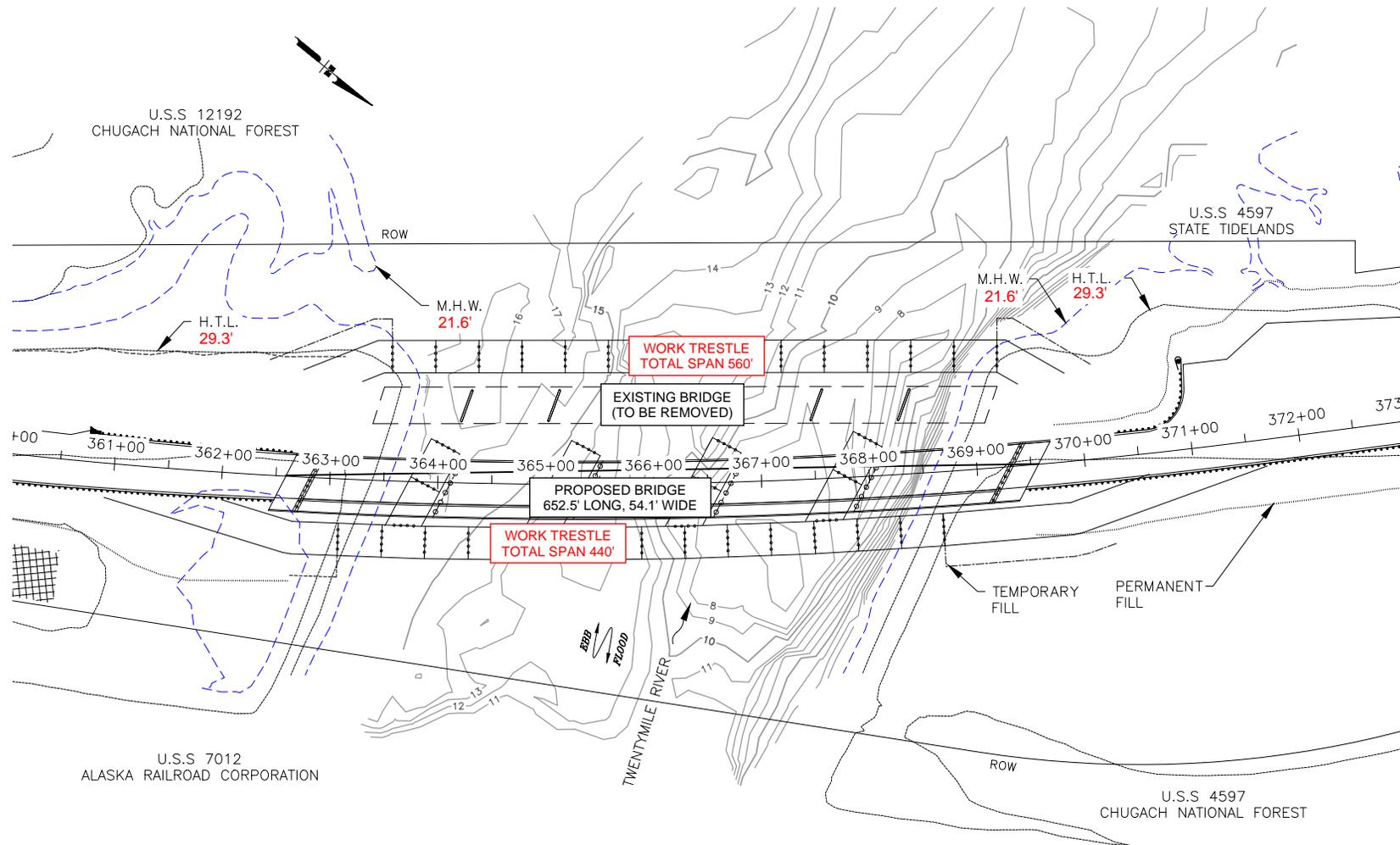
CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities
PROJECT: Seward Highway MP 75-90 Phase 2
PROPOSED BRIDGE: Twenty Mile River
WATERWAY: Twenty Mile River
LOCATION: Section 30, T9N, R3E Portage, Municipality of Anchorage, Alaska River Mile 0.46

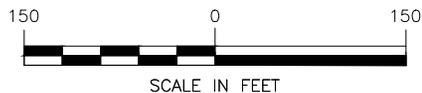
DATE: JANUARY, 2020

SHEET: 2 of 5



TWENTY MILE RIVER EXISTING & PROPOSED BRIDGE LOCATIONS

(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDE STAGE)



10' MINIMUM VERTICAL CLEARANCE DURING CONSTRUCTION
40' HORIZONTAL CLEARANCE DURING CONSTRUCTION
SEE SHEET 4 FOR TYPICAL SECTION

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.3	22.4
MHW	Tidal	21.6	14.7
Base River Flow	Riverine Flow	16.0	9.1
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

HORIZONTAL DATUM: NAD 1983, VERTICAL DATUM: NAVD 88

ABBREVIATIONS

HTL	HIGH TIDE LINE
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
NTS	NOT TO SCALE
ROW	RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



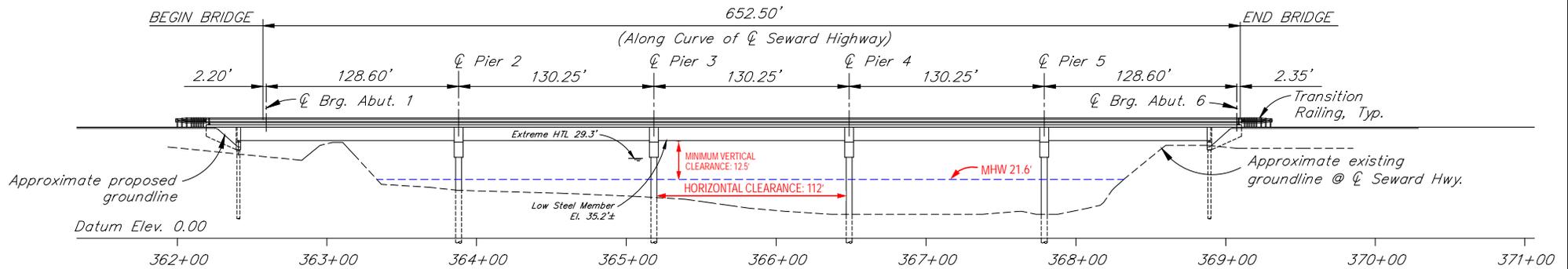
APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

WATERWAY: Twenty Mile River
LOCATION: Section 30, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.46

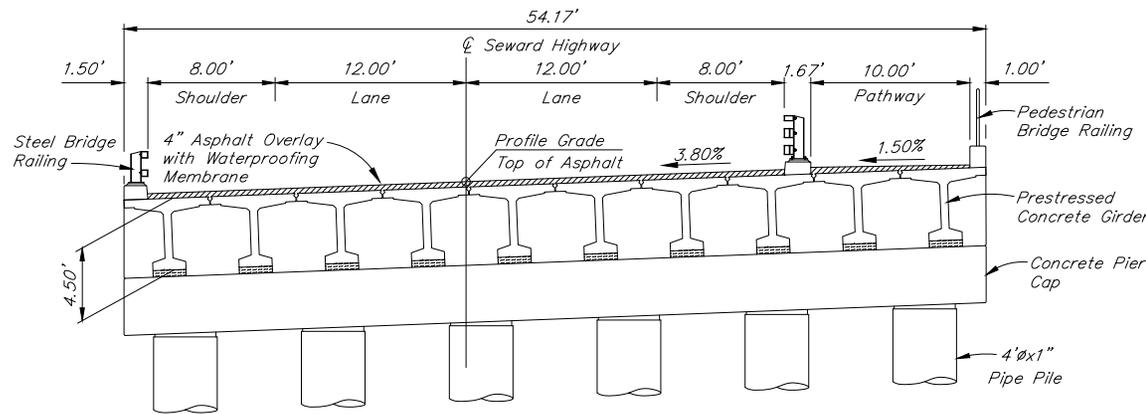
DATE: JANUARY, 2020

SHEET: 3 of 5



**TWENTY MILE RIVER
ELEVATION VIEW**

(NAVIGATIONAL CHANNEL & SIDE LIMITS VARY.
DEPENDENT ON TIDAL INFORMATION)



TYPICAL SECTION

Total # 48" Piles ^a	24
#48" Piles Below MHW	24
#48" Piles Below HTL	24

^aNumber of permanent piles is estimated based upon anticipated conditions, actual number of piles will be based upon conditions at the time of construction.

Estimated permanent fill = 0.12 Acres/
material placed below HTL = 935 cyds

NTS

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.3	22.4
MHW	Tidal	21.6	14.7
Base River Flow	Riverine Flow	16.0	9.1
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

HORIZONTAL DATUM: NAD 1983, VERTICAL DATUM: NAVD 88

ABBREVIATIONS

HTL	HIGH TIDE LINE
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
NTS	NOT TO SCALE
ROW	RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



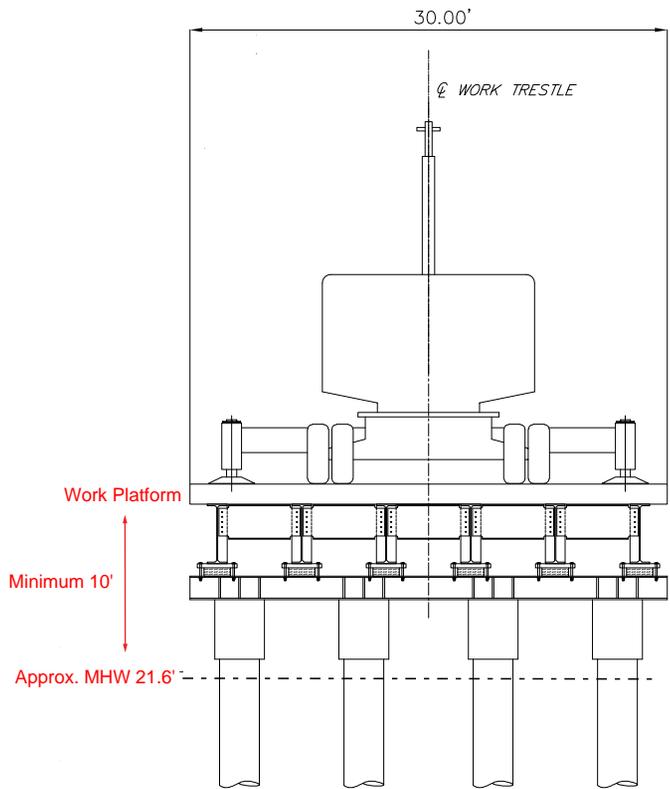
APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

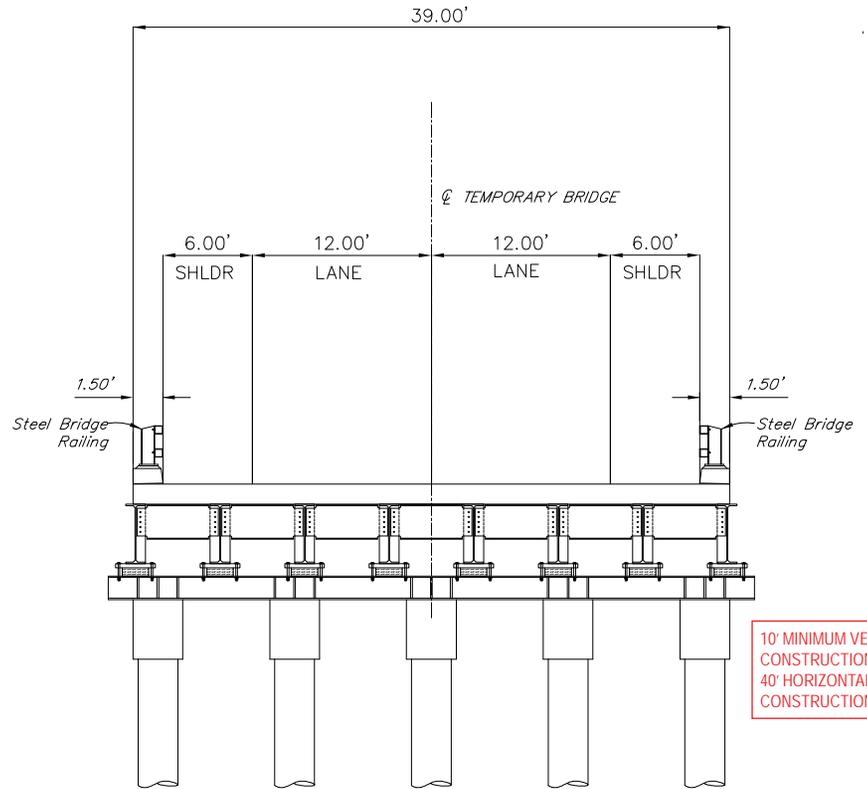
WATERWAY: Twenty Mile River
LOCATION: Section 30, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.46

DATE: JANUARY, 2020

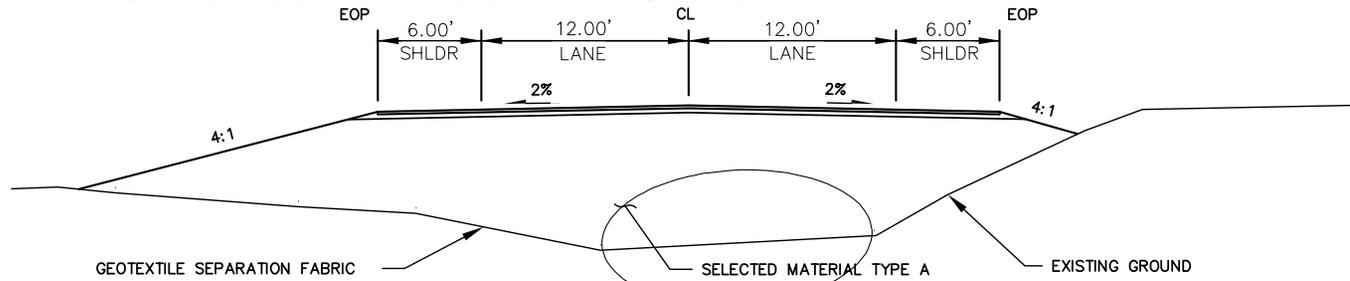
SHEET: 4 of 5



TYPICAL WORK TRESTLE SECTION



TYPICAL TEMPORARY BRIDGE SECTION



DETOUR TYPICAL

NTS

Tide Elevation Table

	Flood Source	NAVD 88 (ft)	MSL 72 (ft)
Maximum HTL*	Tidal	29.3	22.4
MHW	Tidal	21.6	14.7
Base River Flow	Riverine Flow	16.0	9.1
MLW	Tidal	n/a - below riverbed elev.	
MLLW	Tidal	n/a - below riverbed elev.	

*Maximum HTL represents a 100-yr event

HORIZONTAL DATUM: NAD 1983, VERTICAL DATUM: NAVD 88

ABBREVIATIONS

- HTL HIGH TIDE LINE
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- NTS NOT TO SCALE
- ROW RIGHT OF WAY



CONCEPTUAL PLANS
UTILIZED TO OBTAIN COAST
GUARD BRIDGE PERMIT



APPLICANT: Alaska Department of Transportation and Public Facilities

PROJECT: Seward Highway MP 75-90 Phase 2

WATERWAY: Twenty Mile River
LOCATION: Section 30, T9N, R3E
Portage, Municipality of Anchorage, Alaska
River Mile 0.46

DATE: JANUARY, 2020

SHEET: 5 of 5