MEMORANDUM

CITY/BOROUGH OF JUNEAU 155 South Seward Street, Juneau, Alaska 99801

DATE:

October 20, 2014

TO:

Planning Commission

FROM:

Beth McKibben, Planner

Community Development Department

FILE NO.:

CSP2014 0017

PROPOSAL:

Local consistency review of DOT&PF project to remove and replace the Jordan Creek Bike Path Bridge on the southerly side of Egan Drive near the Nugget intersection; repave and lower four cross culverts on the multiuse path on the northerly side of Egan Drive between the Nugget

intersection and Fred Meyer.

GENERAL INFORMATION

Applicant:

State of Alaska DOT & PF

Property Owner:

State of Alaska DOT & PF

Property Address:

Egan Drive

Site Size:

0

Access:

Egan Drive

Roadway Classification:

Arterial

Adjacent Zones:

GC, LC, D15

Surrounding Land Use:

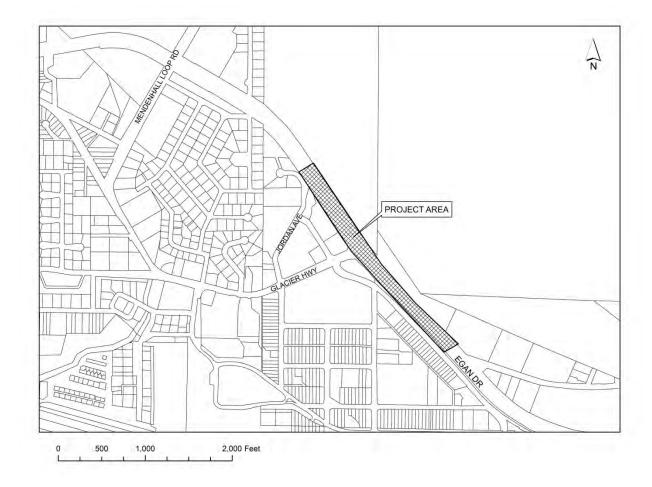
North - D15 Residential/vacant LC Commercial

South - GC Commercial



Planning Commission File No.: CSP2014 0017 October 20, 2014

Page 2 of 6



ATTACHMENTS

A- Flood Narrative - Michael Knapp P.E., DOT Hydrologist

PROJECT DESCRIPTION

Egan Drive is a major arterial. The proposed project will repave the existing ten-foot-wide separated path on the north side of Egan Drive between the Nugget Intersection and Fred Meyer and replace four culverts. The Jordan Creek pedestrian bridge on the south side of Egan will be replaced.

The project is listed on the DOT&PF website as Need ID 68092, and is budgeted for design in

Planning Commission File No.: CSP2014 0017 October 20, 2014 Page 3 of 6

the 2012-2015 Statewide Transportation Improvement Program (STIP) project list for \$75,000 in 2014. The project is described in the STIP as follows:

Repair the frost heave created grade breaks on the shared use path on the northbound side of Egan Drive and repave the shared use path. Replace the Jordan Creek bridge (BR No 4067) on the shared use path on the southbound side of Egan Drive.

ANALYSIS

CBJ 49.15.580 State project review:

The commission shall review proposed Alaska State Capital Improvement Projects for consistency with this title pursuant to AS 35.30.010, and may impose conditions on and modifications to such projects.

The proposed project was reviewed for conformance with the following CBJ-adopted plans:

Comprehensive Plan (2013)
Non-Motorized Transportation Plan (2009) (NMTP)
Area-Wide Transportation Plan (2001) (AWTP)
CBJ 42.20 Offenses Against the Public Order
CBJ 49.70.310 Habitat
CBJ 72.17 Street Closure Permits

Comprehensive Plan

Several policies and implementing actions call for the facilitation and development of multi-use paths and other non-motorized transportation facilities:

POLICY 8.5. TO PROMOTE A BALANCED, WELL-INTEGRATED MULTI-MODAL SURFACE TRANSPORTATION SYSTEM THAT PROVIDES SAFE, CONVENIENT AND ENERGY-EFFICIENT ACCESS AND TRANSPORT FOR PEOPLE AND COMMODITIES.

POLICY 8.6. TO PROMOTE AND FACILITATE TRANSPORTATION ALTERNATIVES TO PRIVATE VEHICLES AS A MEANS OF REDUCING TRAFFIC CONGESTION, AIR POLLUTION AND THE CONSUMPTION OF FOSSIL FUELS, AND TO PROVIDE SAFE AND HEALTHY MEANS OF TRANSPORTATION TO ALL PEOPLE.

Implementing Action: 8.8 IA17 Require sidewalks and bicycle paths or lanes along newly constructed arterial and collector streets where appropriate, and provide or work with DOT&PF to provide such amenities along existing roads to provide safe and efficient access and recreation and to reduce pedestrian/automobile conflicts.

Planning Commission File No.: CSP2014 0017 October 20, 2014 Page 4 of 6

Non-Motorized Transportation Plan

The Non-motorized Transportation plan makes both general policy recommendations for trail development in Juneau and specific recommendations. The plan identifies this project as a midlow Priority. The Plan includes a recommendation for signs and pavement markings. The Plan recommends wayfinding signs along the length of the trail as part of the Cross Juneau Bikeway. To ensure the continued and consistent implementation of bicycle wayfinding in Juneau, a signage plan reviewed and approved by CDD will be required as a condition of consistency.

Area Wide Transportation Plan

The Area Wide Transportation Plan (2001) has six top priorities. Number four is particularly relevant to this project:

4. Establish and maintain bicycle lanes, pathways, sidewalks and bus stops where they are needed. Maintain bicycle lanes, pathways, sidewalks and bus stops with regular restriping, re-surfacing, street sweeping and snow removal.

CBJ 42.20 Offenses Against the Public Order

As a pavement rehabilitation project, the proposed project will necessarily result in inconveniences for many residents and visitors to the project area. CBJ staff expects that the contractor awarded the project by DOT&PF will need to use heavy machinery and that lane closures and traffic revisions may be required in the course of the project. It is also likely that some portion of the project may be completed at night to avoid or minimize impacts to traffic during peak hours. CBJ 42.20.095(b) establishes hours of operation for heaving equipment to ensure quiet hours for area residents. These provisions are in local ordinance, and apply to the project. Staff recommends that an advisory condition reiterating the provisions of CBJ 42.20.095(b) be placed on the finding of local concurrence so as to ensure that the prohibition against use of heavy construction equipment during specified hours is not a surprise to the contractor:

CBJ 42.20.095(b) Construction of buildings and projects. It is unlawful to operate any pile driver, power shovel, pneumatic hammer, derrick, power hoist, or similar heavy construction equipment, before 7:00 a.m. or after 10:00 p.m., Monday through Friday, or before 9:00 a.m. or after 10:00 p.m., Saturday and Sunday, unless a permit shall first be obtained from the City and Borough building official. Such permit shall be issued by the building official only upon a determination that such operation during hours not otherwise permitted under this section is necessary and will not result in unreasonable disturbance to surrounding residents.

Capital City Fire/Rescue staff have, in the past, expressed concern that they have not been notified of street closures and traffic revisions, which could have serious consequences in the

Planning Commission File No.: CSP2014 0017 October 20, 2014 Page 5 of 6

event of an emergency requiring access through or within the project area. Staff recommends that an advisory condition alerting the project contractor to notify both the Juneau Police Department and Capital City Fire/Rescue prior to modifying traffic patterns be placed on the finding of consistency with locally adopted plans.

CBJ 49.70.310 Habitat

CBJ 49.70.925(b) also requires the reasonable preservation of salmon habitat, or mitigation of its disturbance: "Where roads and trails cross anadromous streams, the design and construction of bridges and culverts shall allow free passage of fish, and shall take all feasible and prudent steps to prevent habitat disturbance. Phasing and construction shall be done to avoid critical migration periods for salmon and other anadromous species."

The existing pedestrian bridge across Jordan Creek will be replaced across an anadromous fish stream. Because the proposed project is for a public structure to cross the stream, the development is exempt from CBJ's anadromous fish stream and lake setbacks, as per CBJ 49.70.950(f).

CBJ 49.70.400 Flood Hazard Areas

According to the effective Flood Insurance Rate Map of the CBJ the new pedestrian bridge that will cross Jordan Creek near McDonalds is located in an AE high risk flood zone with a base flood elevation of 30 feet above Mean Lower Low Water (MLLW). According to the submitted narrative (attachment A) from Michael Knapp P.E., DOT Hydrologist, the proposed Jordan Creek pedestrian bridge will be built to allow for greater water flow during a flood event than the existing bridge. The proposed bridge elevation will be slightly below the flood elevation. The CBJ flood regulations do not require roads, trails, and bridges be built at or above the 100-year flood elevation. CDD always encourages this and during some circumstances it is necessary, having the bridge be re-designed above the flood elevation would significantly increase the cost of the project as the adjacent trail would have to be raised to match the bridge elevation. The proposed bridge will be higher than the existing bridge and provide more openings to facilitate water flow. The existing bridge design consists of a large solid wall which does not allow for water passage. The proposed project will improve the flood management of Jordan Creek. For these reasons, CDD staff finds the project consistent with CBJ flood regulations.

FINDINGS

The project is consistent with CBJ 49 and the plans adopted therein, with the recommended conditions placed upon it.

Planning Commission File No.: CSP2014 0017 October 20, 2014 Page 6 of 6

RECOMMENDATION

Staff recommends that the Planning Commission find the proposed project, remove and replace the Jordan Creek Bike Path Bridge on the southerly side of Egan Drive near the Nugget intersection; repave and lower four cross culverts on the multi-use path on the northerly side of Egan Drive between the Nugget intersection and Fred Meyer, consistent with CBJ 49 and the plans adopted therein, with the following condition:

1. The length of the project shall be signed with wayfinding signs where appropriate as part of the Cross Juneau Bikeway. The applicant must submit a signage and striping plan for review and approval by the Community Development Department for consistency with the Non-Motorized Transportation Plan.

Staff further recommends that two advisory conditions be placed on the finding of consistency in order to provide all possible notice to the applicant and the project contractor that a construction noise permit will be required for heavy equipment work during night-time hours as provided at CBJ 42.20.095(b), and that notice must be provided to JPD and to CCF/R prior to any street closures.

Advisory Condition:

- 1. CBJ 42.20.095(b) Construction of buildings and projects. It is unlawful to operate any pile driver, power shovel, pneumatic hammer, derrick, power hoist, or similar heavy construction equipment, before 7:00 a.m. or after 10:00 p.m., Monday through Friday, or before 9:00 a.m. or after 10:00 p.m., Saturday and Sunday, unless a permit shall first be obtained from the City and Borough building official. Such permit shall be issued by the building official only upon a determination that such operation during hours not otherwise permitted under this section is necessary and will not result in unreasonable disturbance to surrounding residents.
- 2. At least three business days prior to any traffic revision or road closure of any public street or portion thereof, the contractor shall provide written notification of the traffic revision plan to the CBJ Fire Marshall and Chief of Police. Failure to provide such notice may result in suspension of any CBJ-issued permits for such work, and is punishable by fine as an unlawful street closure under CBJ 72.17.010.

DEVELOPMENT PERMIT APPLICATION

ct Nam taff to As	Assign Na	ime)		of JUNEAU		= 17, 13 - 171			
1	Project Description 1) Remove and replace the Jordan Creek Bike Path Bridge #6011 on southerly of Egan Drive near Nugget Intersection 2) Lower four cross culverts of multi-use path on northerly side of Egan Drive between Nugget intersection and Fred Meyer's and repave.								
S	Street A	ERTY LOCATION Address Drive, CDS 296000 MP 7.8121 to 8.177, CDS 296	0.08B 0,8	Gity/Zip Juneau,	99801				
L	Legal D	escription(s) of Parcel(s) (Subdivision, Survey, Block, Tract,		391 to v	37001				
		or's Parcel Number(s)			500 500				
	CONTRACTOR OF THE PARTY OF THE	OWNER/ LESSEE ty Owner's Name		Contact Per	son:	Work Phone:			
	State	of Alaska		Chuck Trip	op	465-4439			
		Address 12506, 6860 Glacier Highway, Juneau Alaska 998	1 2506	Home Phone):	Fax Number: 465-4414			
E	E-mail /	12506, 6860 Glacier Highway, Juneau Alaska 998 Address .tripp@alaska.gov	1-2500	Other Contac	ct Phone Numb	The state of the s			
	NAME AND ADDRESS OF	11 ×	inning Perr	nits, not needed on Bul	lding/ Engineeri	ing Permits****			
	x _	Landowner/Lessee Signature Landowner/Lessee Signature			Date				
1	NOTICE	will attempt to contact the							
	hearing				ay visit the prop	erty before the scheduled public			
7	APPLI Applica	ICANT If the same as OWNER, write "SAME" ant's Name Same		nd date at X below Contact Per	son:	Work Phone:			
7	APPLI Applica Mailing	ICANT If the same as OWNER, write "SAME" ant's Name Same		Contact Per	son: e:	Work Phone: Fax Number:			
1	APPLI Applica Mailing E-mail	ICANT If the same as OWNER, write "SAME" ant's Name Same		Contact Per	son:	Work Phone: Fax Number:			
1	APPLI Applica Mailing	If the same as OWNER, write "SAME" ant's Name Same. JAddress Address Applicant's Signature	and sign an	nd date at X below Contact Per Home Phon	son: e: ct Phone Num	Work Phone: Fax Number:			
1	APPLI Applica Mailing E-mail	ICANT If the same as OWNER, write "SAME" ant's Name Same. JAddress Address	and sign an	Contact Per Home Phone Other Conta	son: e: ct Phone Num Date c	Work Phone: Fax Number: ber(s):			
1	APPLI Applica Mailing E-mail	CANT If the same as OWNER, write "SAME" ant's Name Same. JAddress Address Applicant's Signature OFFICE USE ONLY	and sign an	nd date at X below Contact Per Home Phon	son: e: ct Phone Num Date c	Work Phone: Fax Number: ber(s):			
1	APPLI Applica Mailing E-mail	Address Applicant's Signature Permit Type Building/Grading Permit BURNE If the same as OWNER, write "SAME" SAME OWNER, write "SAME" SAME OWNER, write "SAME" SAME OFFICE USE ONLY	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
1	APPLI Applica Mailing E-mail	Address Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action	and sign an	Contact Per Home Phone Other Conta	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s):			
1	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
1	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
1	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed)	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
1	APPLI Applica Mailing E-mail	Address Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s)	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
1	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change)	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
1	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing,	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
1	APPLI Applica Mailing E-mail	Address Applicant's Signature Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
1	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case (De Minimis and all other Variance case types)	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case (De Minimis and all other Variance case types) Wetlands Permits	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case (De Minimis and all other Variance case types)	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case (De Minimis and all other Variance case types) Wetlands Permits Zone Change Application Other	and sign an	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date o	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			
	APPLI Applica Mailing E-mail	Applicant's Signature Applicant's Signature Applicant's Signature Applicant's Signature OFFICE USE ONLY Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case (De Minimis and all other Variance case types) Wetlands Permits Zone Change Application Other (Describe) ***Public Notice Sig	BELOW T	Other Contact CHIS LINE Date Received	son: e: ct Phone Num Date c	Work Phone: Fax Number: ber(s): of Application pplication Number(s)			

CITY/STATE PROJECT AND LAND ACTION REVIEW APPLICATION

Project Number	Project Name (15 characters)		CSP 2014 0017	Date Received
TYPE OF PROJ		and Acquisition /Disposal	State Project	t Review
Intersection, 2) lower	OF PROJECT ace the Jordan Creek Bike Path four cross culverts on the mult d Meyer's and repave.	Bridge #6011 on the sou i-use path on the norther	utherly side of Egan Drive ly side of Egan Drive betw	near the Nugget veen the Nugget
	letter to fully explain the project if		e on this form.	
PROPOSED US	SE OF LAND OR BUILDIN	G(S):		
	IBERS ASSOCIATED WIT		s Case No.:	
Capital Improvement Local Improvement State Project #				
ESTIMATED P	ROJECT COST: \$_900,0	00		
permitting process required for a con- please see the rev	and the submittals amplete application, erse side. Application Total Fee assistance filling out contact the Permit	Fees \$\$	Check No. Receip	ot Date

NOTE: MUST BE ACCOMPANIED BY DEVELOPMENT PERMIT APPLICATION FORM

EVEN IF THE PROPOSED PROJECT IS ASSOCIATE WITH OTHER LAND USE PERMITS, THIS APPLICATION <u>MUST</u> BE FILLED OUT

CITY/STATE PROJECT REVIEW REQUIREMENTS

Each application for a City/State Project is reviewed by the Planning Commission at a public hearing. The permit procedure is intended to provide the Commission the flexibility necessary to make recommendations tailored to individual applications.

<u>Application</u>: An application for a City/State Project Review will not be accepted by the Community Development Department until it is determined to be complete. The items needed for a complete application are:

Forms: A completed City/State Project Review Application form and Development Permit Application form. The "land owner or lessee consent" signature is <u>mandatory</u> for all landowners on the Development Permit Application form.

Fees: No fee required for projects that cost less than \$2.5 million. For projects costing more than this amount, the fee is \$1,600.00. All fees are subject to change.

Project Description: A detailed letter or narrative describing the project.

Plans: All plans are to be drawn to scale and clearly show the items listed below:

- A. Plat, site plan, floor plan and elevation views of existing and proposed structures and land;
- B. Existing and proposed parking areas, including dimensions of the spaces, aisle width and driveway entrances:
- C. Proposed traffic circulation within the site including access/egress points and traffic control devices;
- Existing and proposed lighting (including cut sheets for each type of lighting);
- E. Existing and proposed vegetation with location, area, height and type of plantings; and,
- F. Existing physical features of the site (i.e. drainage, eagle trees, hazard areas, salmon streams, wetlands, etc.)

Document Format: All information that is submitted as part of an application shall be submitted in either of the following formats:

- A. Electronic copies may be submitted by CD, DVD or E-mail in the following formats: .doc, .txt, .xls, .bmp, .pdf, .jpg, .gif .xlm, .rtf or other formats pre-approved by the Community Development Department.
- B. Paper copies may not be larger than 11" X 17" (Unless a larger paper size is preapproved by the Community Development Department).

<u>Application Review & Hearing Procedure</u>: Once the application is determined to be complete, the Community Development Department will initiate the review and scheduling of the application. This process includes:

Review: As part of the review process the Community Development Department will evaluate the application for consistency with all applicable City & Borough of Juneau codes and adopted plans. Depending on unique characteristics of the permit request the application may be required to be reviewed by other municipal boards and committees. Review comments may require the applicant to provide additional information, clarification, or submit modifications/alterations for the proposed project.

Hearing: All City/State Project Review Permit Applications must be reviewed by the Planning Commission. Once an application has been deemed complete and has been reviewed by all applicable parties the Community Development Department will schedule the requested permit for the next appropriate meeting. The Planning Commission will make a recommendation based on staff's analysis and forward it to the Assembly for final approval/denial.

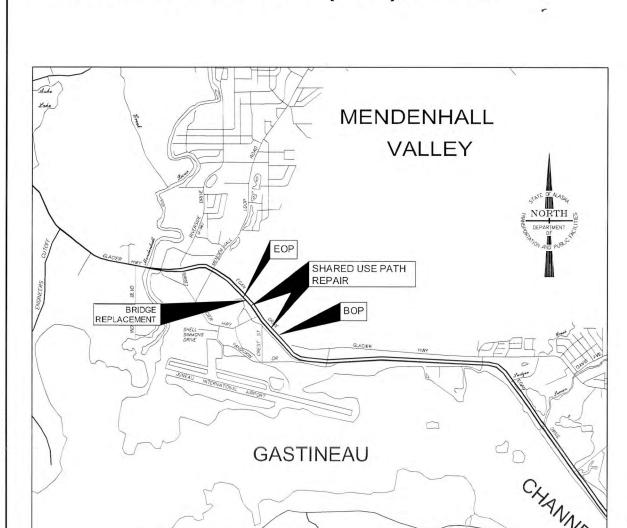
INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED

State of Alaska

Department of Transportation and Public Facilities Southeast Region

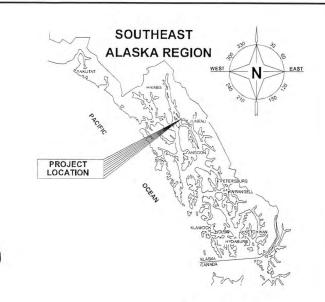
JUNEAU, ALASKA EGAN DRIVE MULTI-USE PATH REPAIR AND BRIDGE #6011 REPLACEMENT

PROJECT No. 0932(052) / 68092



DOUGLAS ISLAND

VICINITY MAP



SOUTHEAST ALASKA REGION

REVIEW PS&E

Plans In Hand & 7/30/2014 DATE

PROJECT SUMMARY

CDS ROUTE NO.	-	296000
CDS MILEPOINT	=	7.812 to 8.177
CDS MILEPOINT (29600SB)	=	0,891 to 0,906
LENGTH OF PROJECT	-	2300 FT
LENGTH OF PAVING	=	2117 FT
WIDTH OF PAVING	-	10' FT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	S-05.01
C-03.10	S-20.10
D-01.02	S-30.03
D-04.21	
F-13.00	

S-00.10

	IN	DEX	
SHEET NO.		DESCRIPTION	
A1	TITLE SHEET		
A2	SURVEY CON	TROL	
B1-B2	TYPICAL SECT		
C1	ESTIMATE OF	QUANTITIES	
D1	SUMMARIES		
F1-F2	PLAN VIEW		
N1-N4	PEDESTRIAN I	BRIDGE #6011	
P1-P3	EROSION & SE	DIMENT CONT	TROL DETAILS
T1-T2	TRAFFIC CON	TROL	
Monday	296000 68092\PLANSET\68092_A1 TSHT.DWG , April 28, 2014 8:55:14 AM OF OR MSPACE: 1=1(E)	MILEPOINT:	7.8 TO 8.4
PATH: QAUNU Monday PLOT: PSPA STAT DEPAR & PUBI	68092/PLANSETI68092_A1 TSHT.DWG April 28, 2014 8:55:14 AM CE OR MSPACE: 1=1(F) E OF ALASKA TIMENT OF TRANSPORTA IC FACILITIES EAST REGION OF ALA OF	TAB:A1	7.8 TO 8.4
PATH: QUINU Monday PLOT: PSPAF & PUBL SOUTH	68092/PLANSETV68092_A1 TSHT.DWG , April 28, 2014 8:55:14 AM CE OR MSPACE: 1=1(F) E OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES COPY OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES LONG TO TRANSPORTA VED: NAL PRE-CONSTRUCTION CARROLL, P.E.	TAB:A*	7.8 TO 8.4 DATE
PATH: QAUNU Monday PLOT: PSPA STAT DEPAR & PUBI SOUTH	68092/PLANSETV68092_A1 TSHT.DWG , April 28, 2014 8:55:14 AM CE OR MSPACE: 1=1(F) E OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES COPY OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES LONG TO TRANSPORTA VED: NAL PRE-CONSTRUCTION CARROLL, P.E.	TAB:A*	
PATH: QAUNUMonday PLOT: PSPA STAT DEPAR & PUBI SOUTH APPRO REGIO L. PAT APPRO DIREC: ALBER	68092/PLANSETV68092_A1 TSHT.DWG ,April 28, 2014 8:55:14 AM CE OR MSPACE: 1=1(F) E OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALASY OF AL	TAB:A*	DATE
PATH: QAUNUMonday PLOT: PSPA STAT DEPAR & PUBI SOUTH APPRO REGIO L. PAT APPRO DIREC: ALBER	68092/PLANSETV68092_A1 TSHT.DWG ,April 28, 2014 8:55:14 AM CE OR MSPACE: 1=1(F) E OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES (FACILITIES) EAST REGION LO F. ALASKA .TMENT OF TRANSPORTA .IC FACILITIES E. M. Triop CE-9613 VED: NAL PRE-CONSTRUCTION CARROLL, P.E. VED: TOR, SOUTHEAST REGION T H. CLOUGH, CPG FIED TRUE & CORRECT AS	TAB:A*	DATE
PATH: QUINU Monday PLOT: PSPA STAT DEPAR & PUBI SOUTH	68092/PLANSETV68092_A1 TSHT.DWG ,April 28, 2014 8:55:14 AM CE OR MSPACE: 1=1(F) E OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES (FACILITIES) EAST REGION LO F. ALASKA .TMENT OF TRANSPORTA .IC FACILITIES E. M. Triop CE-9613 VED: NAL PRE-CONSTRUCTION CARROLL, P.E. VED: TOR, SOUTHEAST REGION T H. CLOUGH, CPG FIED TRUE & CORRECT AS	TAB:A* FION ENGINEER -BUILT OF ACTUAL F	DATE
PATH: QUINU Monday PLOT: PSPA STAT DEPAR & PUBI SOUTH	68092/PLANSETI68092_A1 TSHT.DWG ,April 28, 2014 8:55:14 AM CE OR MSPACE: 1=1(F) E OF ALASKA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION OF ALA .TMENT OF TRANSPORTA .IC FACILITIES EAST REGION THE CE-9613 OF ALA .TMENT OF TRANSPORTA .IC FACILITIES .TMENT OF TRANSPORTA .TMENT OF	TAB:A* FION ENGINEER -BUILT OF ACTUAL F	DATE

HORIZONTAL CONTROL

Horizontal Control for this project is based on the DOT/PF 2000 Juneau

The DOT/PF Juneau Grid-2000 System is a local ground coordinate system based at USC&GS first order control station EDD1E. It relates to AKSPC zone 1 NAD83 (1992) through the following parameters: Zone = NAD83 (1992) AKSPC ZONE 1 Grid Scale = 0.999928875 Convergence = -0°45'27.26" Translation about USC&GS point EDD1E as follows: AKSPC Northing = 2383469.17310 FT US AKSPC Easting = 2512570.06318 FT US Local Northing = 500000.0000 FT US

Project Specific Horizontal Control

Local Easting = 500000.0000 FT US

100 : Survspike and washer set by others in asphalt bike path North West of Jordan Creek pedestrian bridge.

> INU-Grid N 503783.86 FT US, E 498195.11 FT US AKSPC ZONE1 N 2387276.29 FT US, E 2510815.48 FT US

101: Mag nail with orange plastic washer set in asphalt bike path South East of Jordan Creek pedestrian bridge JNU-Grid N 503516.07 FT US, E 498394.89 FT US

AKSPC ZONE1 N 2387005.91 FT US, E 2511011.69 FT US

VERTICAL CONTROL

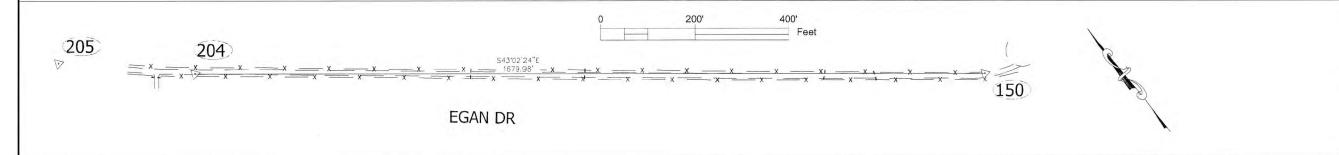
The Vertical Datum for JNU Grid-2000 is MLLW Gastineau Channel tidal datum based on third order differential levels and supplemented with GEOID '99 modeled orthometric heights. The tidal epoch is 1960-1978, but this epoch has been updated with a 5 year observation period from Jan '94 to Dec '98 published Nov '99. The latest NOS publication (10-2011) on the 1983-2001tidal epoch indicates the datum has risen 0.32'.

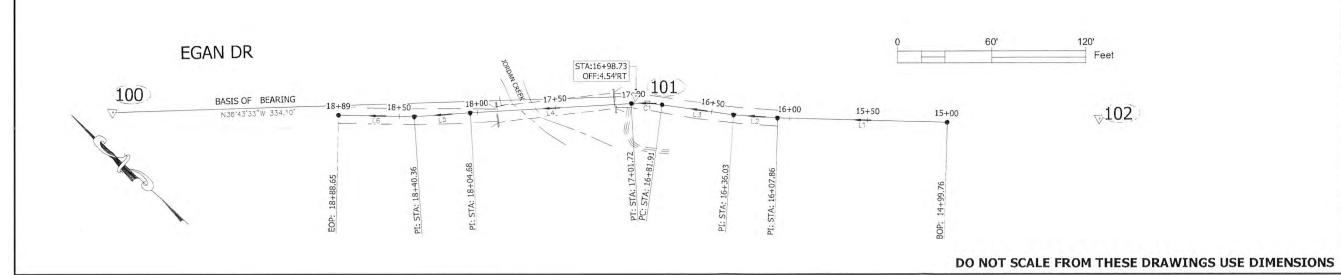
The Project Specific Basis of Vertical Control is point # 517 "TBM BROTHER". Which is a 3.5" brass cap located in the north east abutment of Brotherhood Bridge. TBM-Brother has an observed elevation of 39.41 feet above MLLW.

JORDAN CREEK ALIGNMENT										
Number	START STATION	NORTHING	EASTING	TANGENT DISTANCE	TANGENT BEARING	NORTHING CENTER	EASTING CENTER	RADIUS	LENGTH	DELTA
L1	14+99.76	503343.90	498495.06	108.10	N33° 30' 53.6"W					
L2	16+07.86	503434.03	498435.37	28.17	N30° 58′ 23.3″W					
L3	16+36.03	503458.19	498420.87	45.88	N26° 56' 04.7"W					
C1	16+81.91	503499.09	498400.09			503453.79	498310.94	100.00	19.81	11° 21' 04.2"
L4	17+01.72	503515.75	498389.43	102.96	N38° 17' 08.9"W					
L5	18+04.68	503596.57	498325.64	35.67	N38° 49' 03.8"W					
L6	18+40.36	503624.36	498303.27	48.29	N33° 47' 39.1"W					

Point Table						
Point #	Northing	Easting	Elevation	Description		
100	503783.86	498195.11	30.31	SURVSPIKE		
101	503516.07	498394.89	29.72	MAG/WASH		
102	503265.46	498552.70	31,18	MAG/WASH		
150	501626.87	500216.42	26.82	MAG/WASH		
151	501365.96	501056.05	31.18	ALCAP_DIGMON		
204	502854.72	499069.81	29.04	MAG/WASH_SET		
205	503081.89	498888.33	29.30	MAG/WASH_SET		

ALL MONUMENTS IN THE CONTROL TABLE ARE PROVIDED STRICTLY FOR SURVEY CONTROL. SHOULD ANY OF THEM BE DESTROYED DURING CONSTRUCTION THEY SHALL NOT BE REPLACED.





PATH: Q:\JNU\68092\PLANSET\68092_A2_SURVEY SCHLICHTING, SARAH J (DOT) Tuesday, July 29, 2014 4:12:07 Pt ADDENDUM NUMBER ATTACHMENT NUMBER

MONUMENT NOTES:

DATE

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

DESCRIPTION

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

CHECKED BY: D.Ignoto



J.Johnson DRAWN BY: J.Johnson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU EGAN DRIVE MULTI-USE PATH REPAIR AND BRIDGE #6011 REPLACEMENT PROJECT No. 0932(052) / 68092

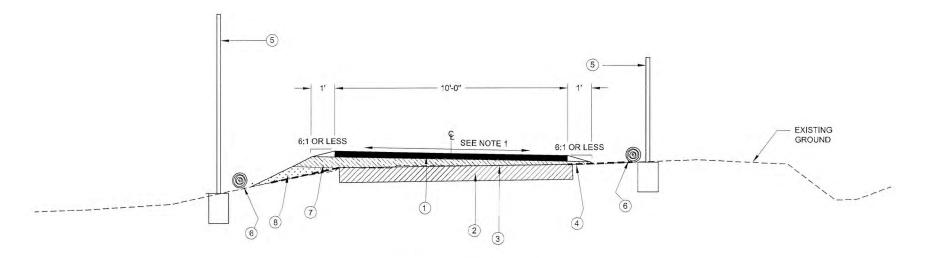
SURVEY CONTROL

PROJECT DESIGNATION 0032(052) / 68002

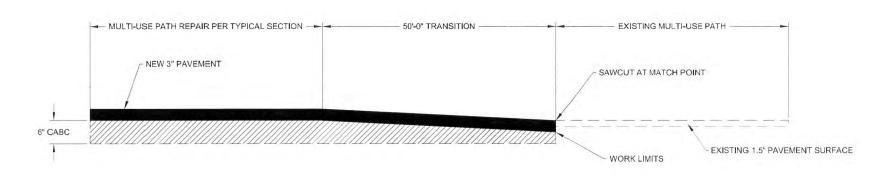
0932(052) / 08092				
STATE	STATE YEAR				
ALASKA	2014				
SHEET NUMBER	TOTAL SHEETS				
A2	17				

TYPICAL SECTION ALIGNMENT "A"

N.T.S.



TYPICAL SECTION ALIGNMENT "B"



PAVEMENT TRANSITION DETAIL

GENERAL TYPICAL SECTION NOTES:

- CROSS SLOPE WILL BE 1.5% MAX. DIRECTION OF CROSS SLOPE WILL VARY BY LOCATION AS INDICATED IN THE PLANS OR AS DIRECTED.
- LINEAR GRADE 3' MIN. OR TO THE EDGE OF THE FENCE, EITHER SIDE OF PAVED PATH TO REMOVE VEGETATION PRIOR TO PULVERIZING EXISTING PAVEMENT.
- 3. ON ALIGNMENT "B": CLEAR AND GRUB TO THE TOE OF NEW

MATERIAL LEGEND

- 3" ASPHALT CONCRETE TYPE II, CLASS B
- 6" CRUSHED ASPHALT BASE COURSE (CABC)
- 3 GRIND EXISTING 1.5" ASPHALT IN PLACE PER SECTION 308
- (4) LINEAR GRADING PRIOR TO GRINDING EXISTING ASPHALT
- 5 EXISTING CHAIN LINK FENCE
- 6 SEDIMENT BARRIER
- 7 ADD AGGREGATE BASE COURSE GRADING D-1, TO ACHIEVE PROFILE GRADE
- SELECT MATERIAL, TYPE A

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

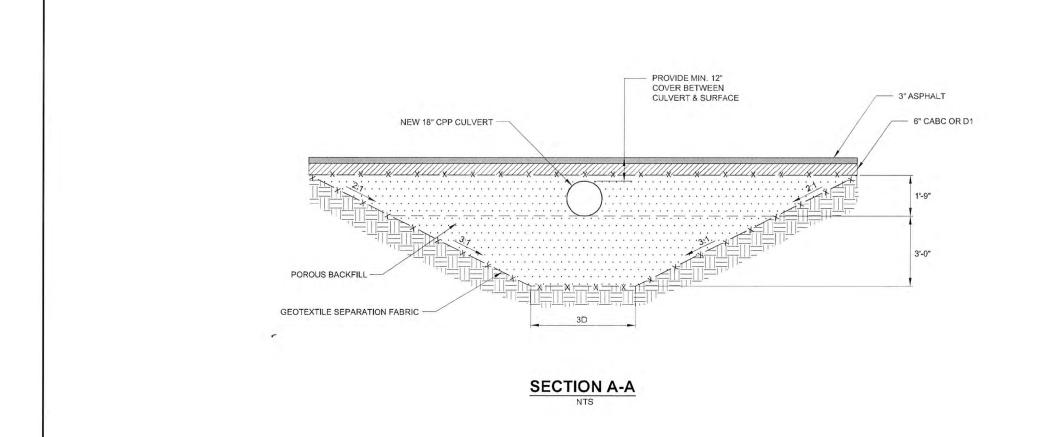
JNU EGAN DRIVE MULTI-USE PATH REPAIR AND BRIDGE #6011 REPLACEMENT Project No. 0932(052) / 68092

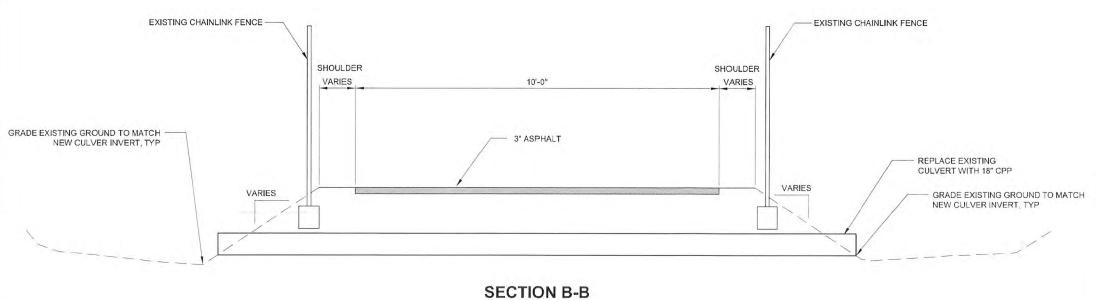
DBY: S. SCHLICHTING
TYPICAL SECTIONS

 PATH
 Q3UNU68092/PLANSETI68092_B1-B2_TYPICAL.DWG

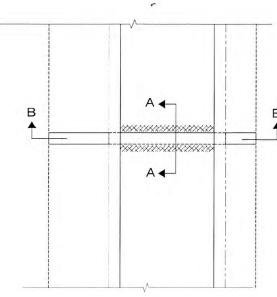
 FAB:
 B1
 Tuesday, July 29, 2014 11:18:31 AM
 SCHLICHTING, SARAH J (DOT)

 REVISIONS
 PROJECT DESIGNATION
 YEAR





NTS



CULVERT PLAN

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. TRIPP

49th

Charles M. Tripp

CE-9613

DESIGNED BY: S. SCHLICHTING

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU EGAN DRIVE MULTI-USE PATH REPAIR AND BRIDGE #6011 REPLACEMENT Project No. 0932(052) / 68092

CULVERT
TYPICAL SECTIONS

AB:	B2	Tuesday, July 29, 2014 11:18:53 AM	SCHLICHTIN
ATH	Q:UNUV	58092\PLANSET\68092_B1-B2_TYPICAL.DWG	

	REV	ISIONS	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
0.	DATE	DESCRIPTION			NO.	SHEET
			0932(052) / 68092	2014	B2	17

	ESTIMATE OF QUANTITI	ES	
ITEM NO.	PAY ITEM	PAY UNIT	PLAN QUANTITY
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	136
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	85
202(17)	REMOVAL OF EXISTING BRIDGE NO. 6011	LUMP SUM	ALL REQUIRED
203(6)	BORROW, SELECT MATERIAL, TYPE A	TON	62
205(3)	STRUCTUAL FILL	CUBIC YARD	103
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	38
303(3)	LINEAR GRADING	STATION	20
308(1)	CRUSHED ASPHALT BASE COURSE	SQUARE YARD	2300
401(2)	ASPHALT CEMENT, GRADE PG 58-28	TON	3
501(1)	CLASS A CONCRETE	LUMP SUM	ALL REQUIRED
503(1)	REINFORCING STEEL	LUMP SUM	ALL REQUIRED
504(3)	FURNISH AND ERECT PEDESTRIAN BRIDGE	LUMP SUM	ALL REQUIRED
505(9)	STRUCTURAL STEEL SHEET PILES	SQUARE FOOT	1980
603(21-18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	85
608(3)	ASPHALT SIDEWALK	SQUARE YARD	2260
615(1)	STANDARD SIGN	SQUARE FOOT	10
618(1)	SEEDING	ACRE	0.28
619(3)	BONDED FIBER MATRIX (BFM)	POUND	200
630(1)	GEOTEXTILE, SEPARATION	SQUARE YARD	472
633(2)	SEDIMENT BARRIER	LINEAR FOOT	1000
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643(12)	PORTABLE CONCRETE BARRIER	EACH	4
643(15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
644(6)	VEHICLES	LUMP SUM	ALL REQUIRED
645(1)	SHUTTLE SERVICE	LUMP SUM	ALL REQUIRED
646(1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
690(1)	TEMPORARY ROCK CHECK DAM	EACH	8

BASIS OF ESTIMATE					
ITEM NO.	DESCRIPTION	QUANTITY			
203(6)	BORROW, SELECT MATERIAL, TYPE A	1.81 TOWCY			
301(1)	AGGREGATE BASE COURSE, GRADING D-1	1.95 TONICY			
603(21-18)	POROUS BACKFILL TO GO IN NEW CULVERT EXCAVATION	7.5 SY/LF			
608(3)	ASPHALT SIDEWALK	117 LB/SY/IN			
619(3)	BONDED FIBER MATRIX (BFM)	4000 LB/ACRE			



CHECKED BY: C. TRIPP

49th

CE-9613

DESIGNED BY: S. SCHLICHTING

DRAWN BY: S. SCHLICHTING

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU EGAN DRIVE MULTI-USE PATH REPAIR AND BRIDGE #6011 REPLACEMENT Project No. 0932(052) / 68092

ESTIMATE OF QUANTITIES

PATH: Q:UNU\68092\PLANSET\68092_C1_EST.DWG TAB: C1 Tuesday, July 29, 2014 4:08:28 PM

SCHLICHTING, SARAH J (DOT)

	RE\	VISIONS	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
NO.	DATE	DESCRIPTION		1	NO.	SHEETS
			0932(052) / 68092	2014	C1	17

202 (4) REMOVAL OF CULVERT PIPE							
ITEM	ESTIMATED QTY	UNIT					
24" CSP STATION 13+22	20	LINEAR FEET					
18" CSP STATION 14+29	20	LINEAR FEET					
18" CSP STATION 19+29	23	LINEAR FEET					
18" CSP STATION 21+72	22	LINEAR FEET					

202 (17) REMOVAL OF STRUCTURES AND OBSTRUCTIONS SUMMARY								
ITEM	ESTIMATED QTY	UNIT						
REMOVAL OF EXISITING BRIDGE NO. 6011	1	LUMP SUM						

	603(21-18) PIPE SUMMARY									
PIPE#	LENGTH		INLET		OUTLET			SLOPE	REMARKS	
			OFFSET (FT)	INV. ELEV	STATION	OFFEST (FT)	INV. ELEV			
P-1	20	13+22	9.6 RT	24.0	13+16	9.6 LT	24	0%		
P-2	20	14+29	12.1 RT	24.3	14+26	7.5 LT	24.3	0%		
P-3	23	19+29	12.7 RT	25.0	19+36	9.7 LT	25.0	0%		
P-4	22	21+72	10.7 RT	25.7	21+80	10.8 LT	25.7	0%		

	615(1) STANDARD SIGN									
#	DESCRIPTION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST SIZE	REMARKS		
1	WEIGHT LIMIT *10 TONS	LT	R12-1	24	30	5	2.5	Locate 10-feet ahead of each bridge approach and 4- feet from the pavement edge.		
2	WEIGHT LIMIT *10 TONS	RT	R12-1	24	30	5	2.5	Locate 10-feet ahead of each bridge approach and 4- feet from the pavement edge.		

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Charles M. Tripp

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION

JNU EGAN DRIVE MULTI-USE PATH REPAIR AND BRIDGE #6011 REPLACEMENT Project No. 0932(052) / 68092

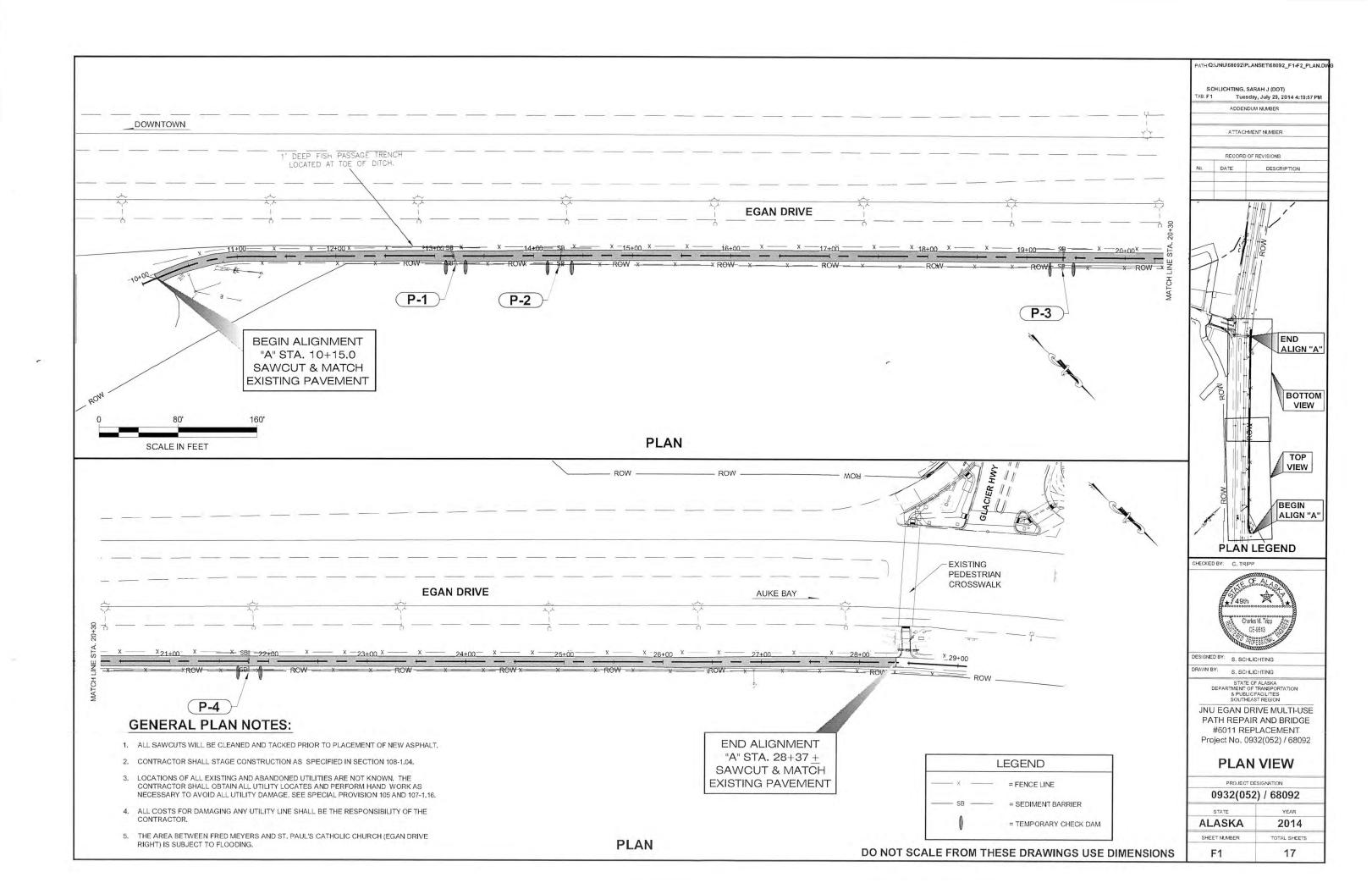
SUMMARIES

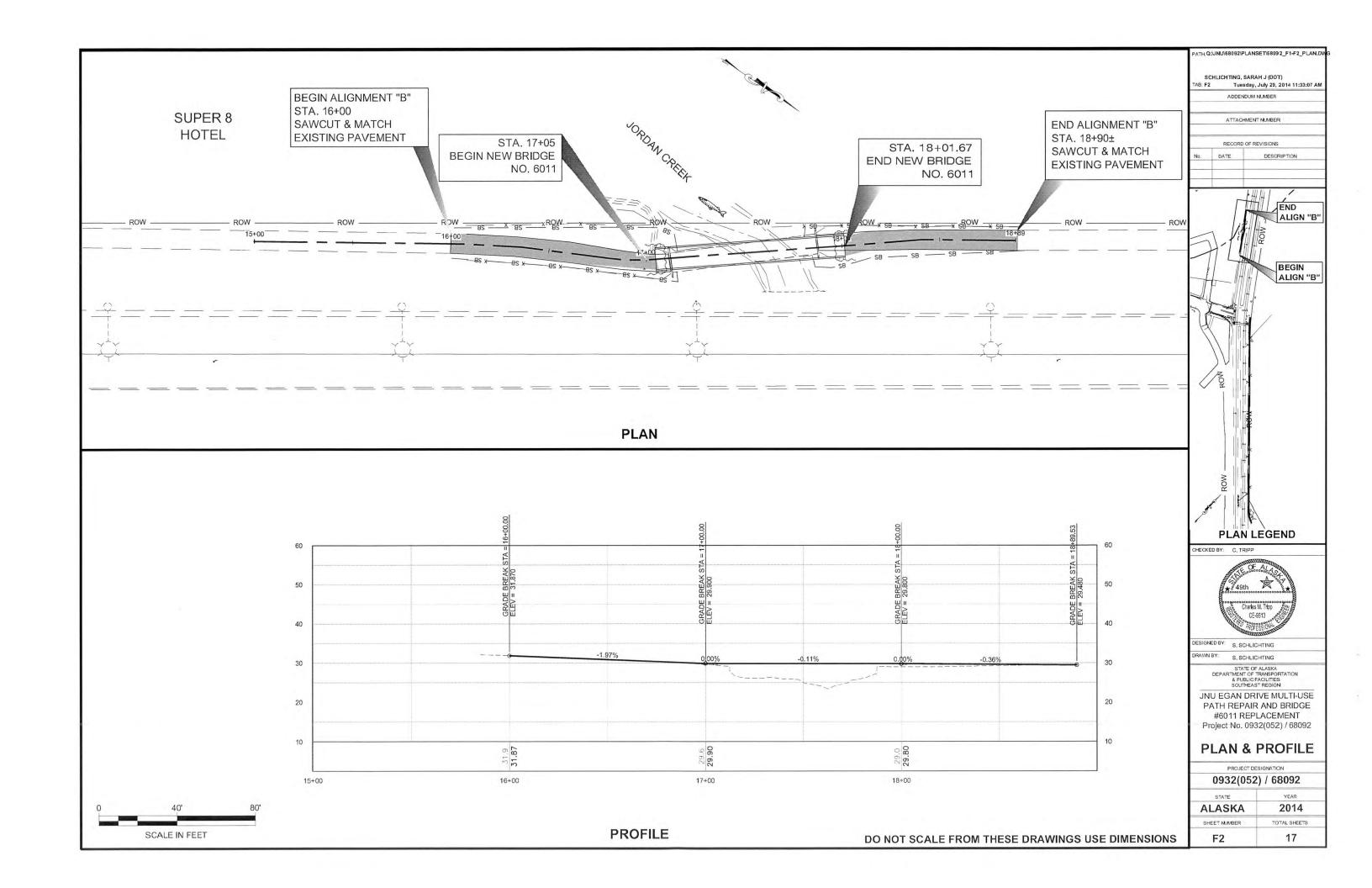
DESIGNED BY: S, SCHLICHTING

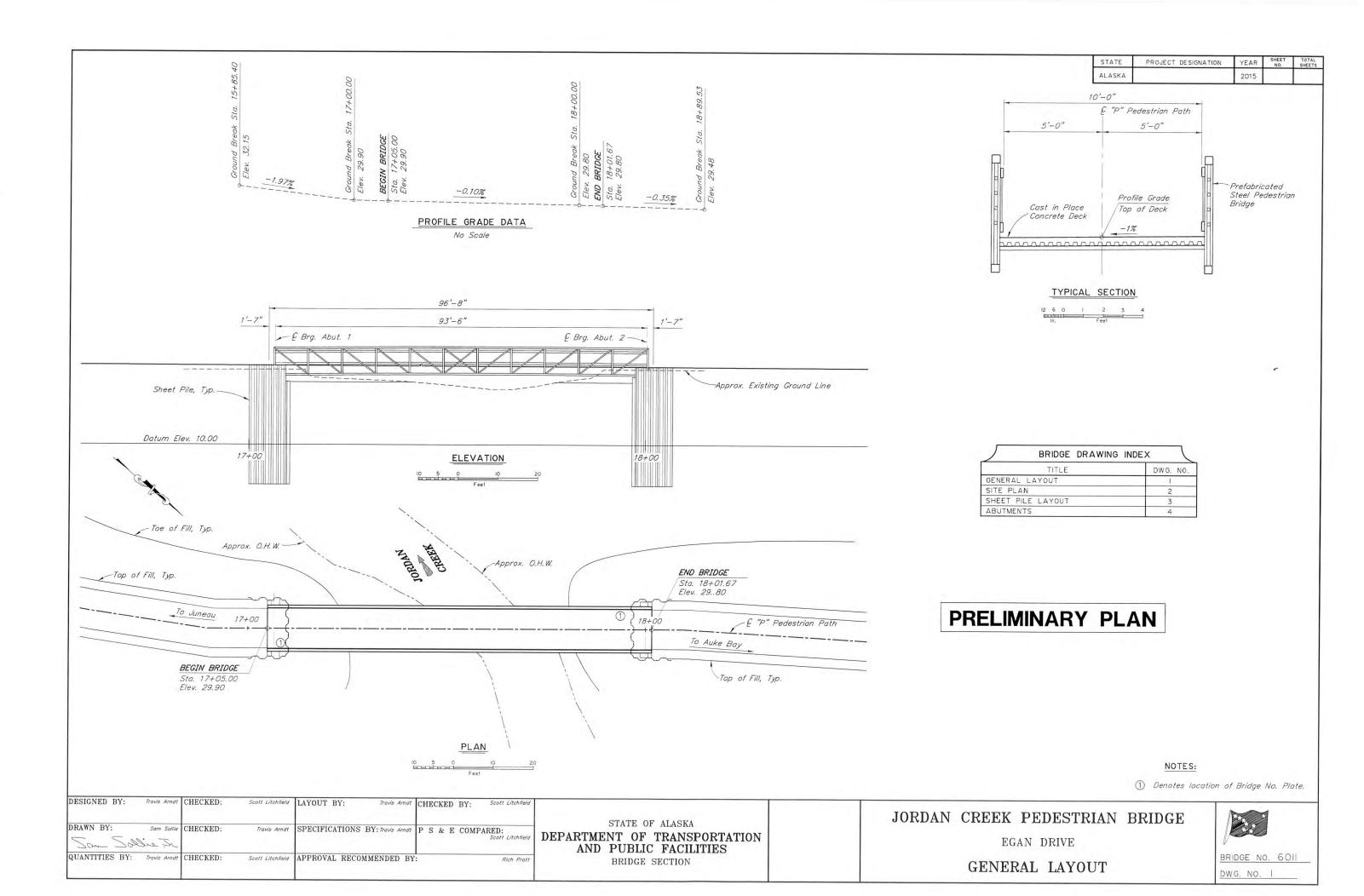
DRAWN BY: S, SCHLICHTING

PATH: Q:UNU.68092/PLANSET/68092_D1_SUMS.DWG

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET	TOTAL
NO.	DATE	DESCRIPTION			NO.	SHEETS
			0932(052) / 68092	2014	D1	17







	STATE PROJECT DESIGNATION YEAR SHEET TOTAL NO. SHEET NO.
	ALASKA 2015
	GENERAL NOTES
	DESIGN: AASHTO LRFD Bridge Design Specifications, 2012 Edition, with latest interim specifications. Seismic design per AASHTO Guide Specifications for LRFD Seismic Bridge Design, 2011 with latest interim specifications.

90 psf pedestrian or H10 service vehicle whichever produces maximum effect. DEAD LOAD: .. . Includes 75 psf for all wearing surfacing. SEISMIC PARAMETERS: = 0.17Ss = 0.39= 0.21Site Class = E Liquefaction Potential = High
AASHTO 7% probability of exceedance in 75 years. . ASTM A706, Grade 60, Fy = 60,000 psi Space reinforcement evenly unless otherwise noted. Use ASTM A970 Headed bars, Class HA. REINFORCEMENT: & "P" Pedestrian Path CONCRETE:.. Class A Concrete, f'c = 4000 psi. 17+00 STRUCTURAL STEEL: ASTM A709, Grade 3613, Fy = 36,000 psiGalvanize all structural steel in accordance with AASHTO M111 -Sheet Pile, Typ. unless shown otherwise. STRUCTURAL STEEL SHEET PILE:.... . ASTM A709, Grade 50, Fy=50,000 psi. Galvanize all structural steel in accordance with AASHTO M111 Approx. O.H.W.

	FOOTING PF	RESSURE TABLE	
LOCATION	STRENGTH I FACTORED LOAD (KSF)	NOMINAL BEARING RESISTANCE (KSF)	BEARING RESISTANCE FACTOR, ¢
Abutment 1	3.60	8 X	0.50
Abutment 2	3.60	8 X	0.50

^{*} Presumptive value based on AASHTO LRFD TC10.6.2.6.1-1

ABBREVIATIONS:

DESIGNED BY:	Travis Arndt	CHECKED:	Scott Litchfield	HYDRAULICS BY:	CHECKED BY:	CTATE OF ALCUA
DRAWN BY:	Som Sollie	CHECKED:	Travis Arndt	FOUNDATIONS REVIEWED BY:		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
QUANTITIES BY:	Travis Arndt	CHECKED:	Scott Litchfield			BRIDGE SECTION

PAY UNIT EST UNIT

CY

CY

LBS

SF

CY

LS

LS

SF

Approx. O.H.W.

(E) Pedestrian Bridge to be removed

BRIDGE BASIS OF ESTIMATE

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total

Removal of Existing Bridge No. 6011

Furnish and Erect Pedestrian Bridge

Structural Steel Sheet Piles

Structrual Fill

quantity of the particular item.

Class A Concrete

Reinforcing Steel

205(3)

501(1)

503(1)

JORDAN

SUBST. SUPERST. TOTAL

All Reg'd

103

27.0

2300

1980

All Reg'd All Reg'd

103

27.0

2300

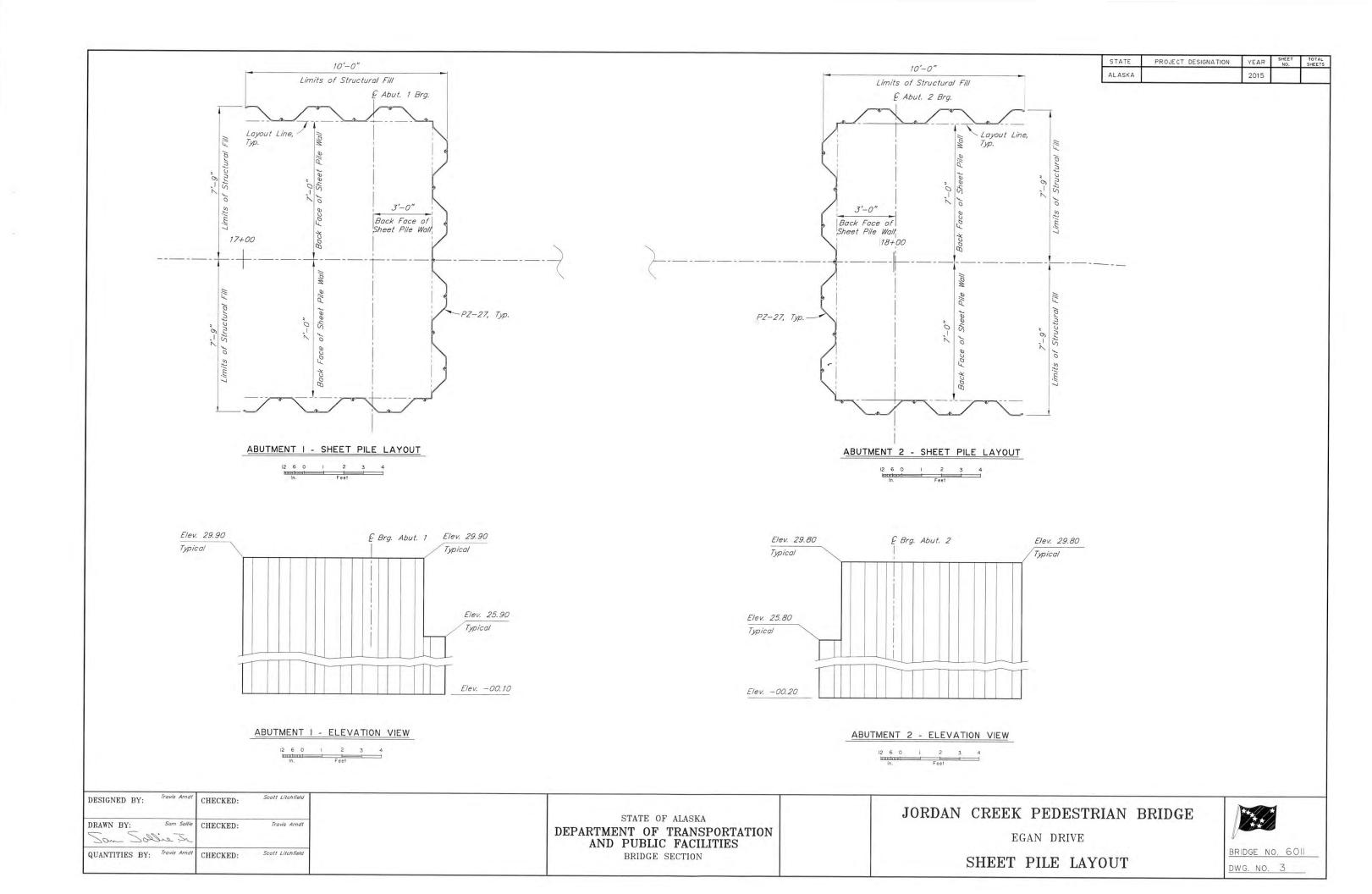
1980

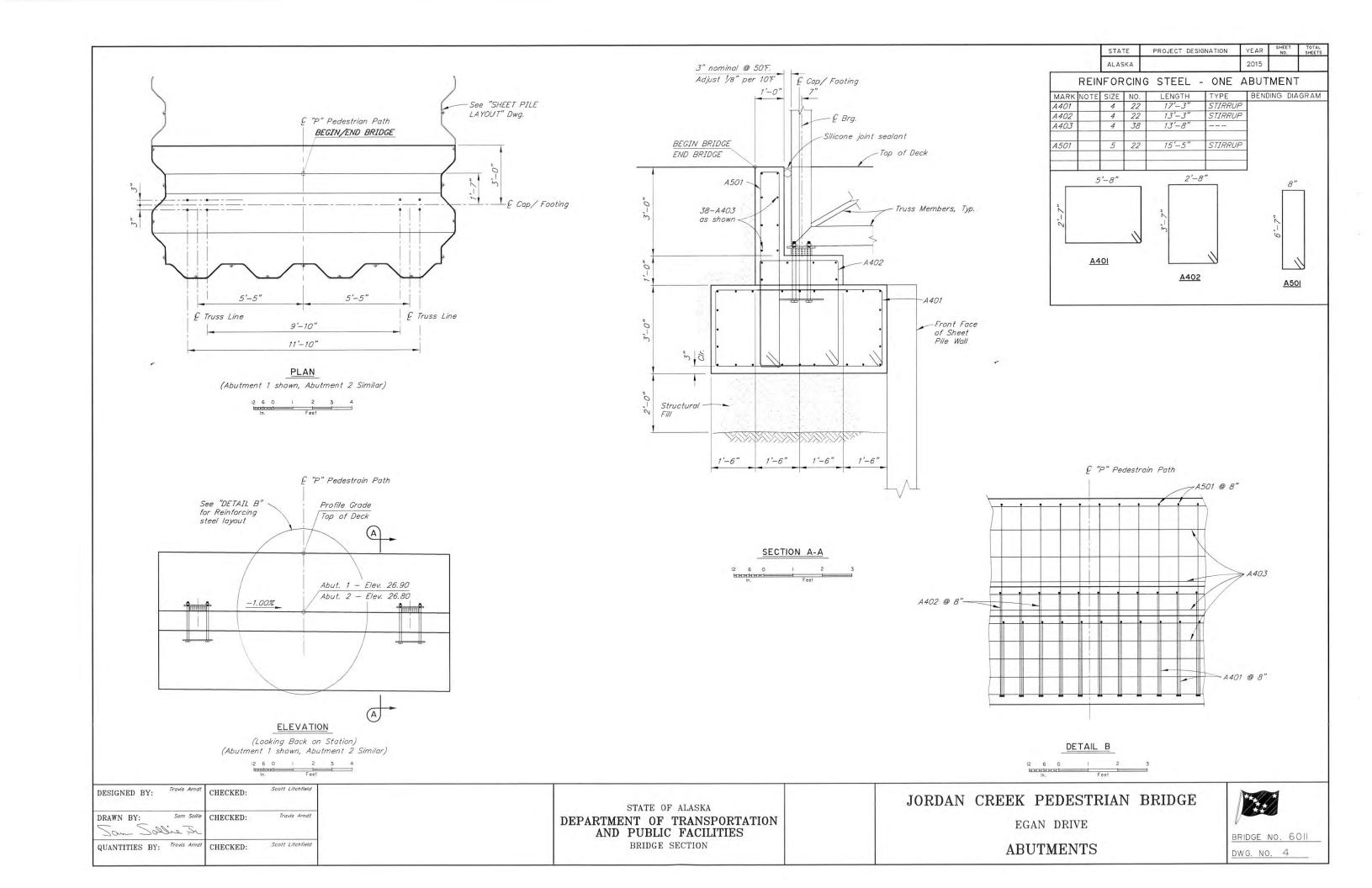
JORDAN CREEK PEDESTRIAN BRIDGE

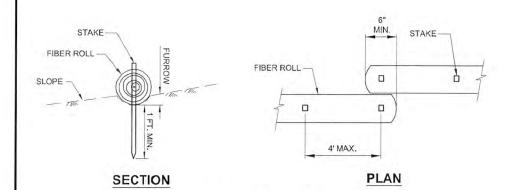
EGAN DRIVE

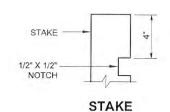
SITE PLAN











TYPICAL FIBER ROLL DETAIL

Site Charactistics:

A. PHYSICAL LOCATION:

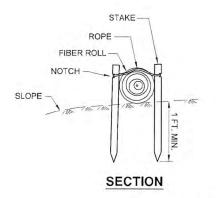
JUNEAU IS SITUATED AT THE NORTHERN END OF THE ALEXANDER ARCHIPELLAGO. 58'21'38.24" N. LATITUDE 134'34'02.14" W. LONGITUDE HORIZONTAL DATUM: NAD-83 SECTIONS 30 & 31, TOWNSHIP 040 SOUTH, RANGE 066 EAST, COPPER RIVER MERIDIAN

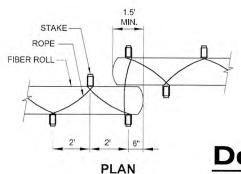
B. PRECIPITATION AND HYDROLOGY INFORMATION: JUNEAU AVERAGES 54" INCHES OF PRECIPITATION PER YEAR AND 100 INCHES OF SNOW. ESTIMATED PRE-CONSTRUCTION RUNOFF COEFFICIENT: C=0.40 ESTIMATED POST-CONSTRUCTION RUNOFF COEFFICIENT: C=0.40RECEIVING WATERS ARE JORDAN CREEK. AREA OF PROJECT = 0.7 ACRES.

FIBER ROLL (TYPE 1)



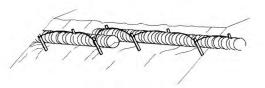
FIBER ROLL (TYPE 1)





FIBER ROLL (TYPE 2)

- THE PROJECT IS LOCATED IN THE JORDAN CREEK WATERSHED. A PORTION OF THE DRAINAGE FROM THE PROJECT WORK LIMITS DISCHARGES INTO THESE CREEKS. JORDAN CREEK IS CLASSIFIED BY THE EPA AS DESIGNATED IMPAIRED WATERBODY, LISTED UNDER SECTION 303(D) OF THE CLEAN WATER ACT SPECIAL CONTROLS ARE REQUIRE TO RESTORE JORDAN CREEK'S WATER QUALITY. THE STREAM IS THE FOCUS OF A JOINT AGENCY RECOVERY EFFORT.
- 2. THE FISH PASSAGE CHANNEL, EXISTING AS A TRENCH IN THE BOTTOM OF THE DITCH ALONG ALIGNMENT "A" (STATION 10+00 TO 13+28 LEFT) MUST NOT BE DISTURBED EXCEPT FOR ANY CONSTRUCTION NECÈSSARY AT EITHER END OF THE CULVERT.
- 3. MAINTAIN DEVICES, MONITOR DAILY, EXCAVATE CHECK DAMS WHEN 4" OF SEDIMENT ACCUMULATES. ENSURE SEDIMENT BARRIER IS TIGHT AGAINST THE GROUND.
- 4. IF INSPECTION REVEALS WATER IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. ADDITIONAL SEDIMENT BARRIERS OR CHECK DAMS MAY BE REQUIRED.
- STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABILIZED SURFACES MUST BE TEMPORARILY STABILIZED WITH BONDED FIBER MATRIX OR OTHER EFFECTIVE MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL UNTIL PROJECT WORK AREAS ARE PAVED AND SEEDED AREAS HAVE ACHIEVED 70% VEGETATIVE COVER.
- 6. SEE SHEETSTS F1-F2 FOR EROSION AND SEDIMENT CONTROL PLAN (PLAN SHEETS).
- 7. REFER TO APPENDIX B OF THE SPECIAL PROVISIONS FOR THE ENVIRONMENTAL COMMITMENTS.
- 8. EROSION CONTROL MEASURES WILL BE EVALUATED BY THE ENGINEER BASED ON EFFECTIVENESS. THOSE FOUND INEFFECTIVE MUST BE REPLACED OR REPAIRED WITHIN 24 HOURS FOLLOWING NOTIFICATION.
- 9. THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO SECTION 641 OF THE SPECS.
- 10. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING EARTH DISTURBING ACTIVITIES OR
- 11. THE LOCATION AND LENGTH OF FIBER ROLLS IS DEPENDENT ON THE CONDITIONS OF THE SITE.
- 12. ANCHOR AS NECESSARY TO FIRMLY SECURE FIBER ROLLS AND PROVIDE CONTINUOUS CONTACT WITH THE
- 13. LAP ADJACENT FIBER ROLLS TO PREVENT SEDIMENT BYPASS.



PERSPECTIVE

FIBER ROLL (TYPE 2)

Description of Construction Activity:

A. PATH RECONSTRUCTION:

THE PLANS CALL FOR GRINDING AND RE-PAVING THE EXISTING 10-FOOT WIDE PAVED PATH. FOUR CULVERTS WILL BE REMOVED AND REPLACED WITH NEW 18" CORRUGATED POLYETHYLENE PIPE.

B. PED. BRIDGE APPROACH CONSTRUCTION:

THE PLANS CALL FOR CONSTRUCTION OF PATH APPROACHES AT BOTH ENDS OF THE JORDAN CREEK THE PLANS CALE FOR CONSTRUCTION OF PAIR APPROACHES AT BOTH ENDS OF THE SURDAIN CALE.

PEDESTRIAN BRIDGE #6011. THE APPROACHES LINK THE BRIDGE WITH THE MULTI-USE PATH AND TRANSITION TO MEET THE GRADE OF THE NEW PEDESTRIAN BRIDGE. THE CONTRACTOR HAS SEVERAL OPTIONS ON HOW TO BUILD THE APPROACHES, BUT ENVIRONMENTAL PERMITTING DOES NOT ALLOW THE PLACEMENT OF FILL ONTO CLASS B WETLANDS OR BELOW ORIGINAL HIGH WATER (OHW) LEVELS. ONCE THE BRIDGE FOUNDATIONS ARE COMPLETED, THE PATH APPROACHES AT BOTH ENDS CAN BE CONSTRUCTED. THE REMAINING WORK WILL INVOLVE PLACEMENT OF SELECT A MATERIAL TO THE LINE, GRADE AND SLOPES INDICATED ON THE CONTRACTOR—FURNISHED APPROACH PLAN SHEETS. THE PATH WILL BE FINE GRADED WITH CRUSHED AGGREGATE BASE COURSE AND A 3-INCH LIFT OF ASPHALT PAVEMENT. SOIL SLOPES WILL BE STABILIZED WITH SEEDING AND BONDED FIBER MATRIX TO REDUCE EROSION.

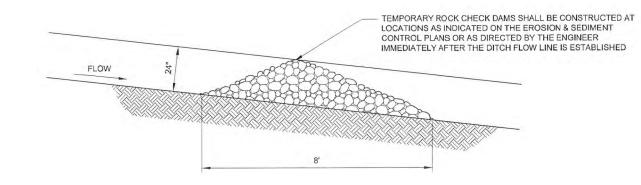
C. PEDESTRIAN BRIDGE CONSTRUCTION:

INSTALLATION OF THE PEDESTRIAN BRIDGE WILL BEGIN ONCE THE FOUNDATIONS AND APPROACHES HAVE BEEN CONSTRUCTED. ACCESS TO THE JORDAN CREEK BRIDGE SITE MAY BE REACHED BY EGAN DRIVE OR JORDAN AVENUE. INSTALLATION MAY ONLY OCCUR WITHIN THE OFF-PEAK HOUR (SEE NOISE ORDINANCE PERMIT) TIME WINDOW. BRIDGES SHALL BE LOADED ON A FLAT-BED TRUCK AND TRANSPORTED TO THE SITE FROM THE CONTRACTORS' TEMPORARY STORAGE LOCATION. A CRANE OR PROPERLY LOAD-RATED BOOM TRUCK WILL MOVE THE BRIDGE FROM THE FLAT-BED TRUCK TO ITS FINAL RESTING PLACE ON THE FOUNDATION.

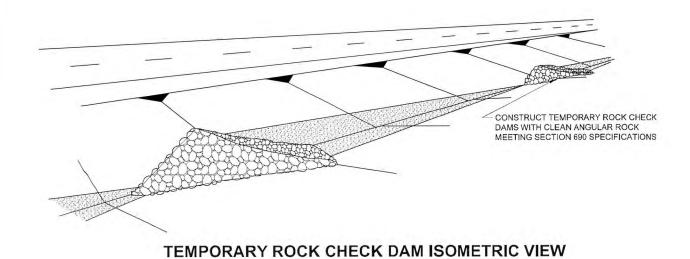
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

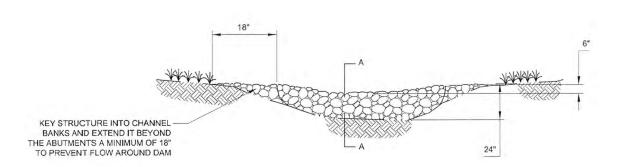
CHECKE	EDBY: G.	IKIPP.		STATE OF A DEPARTMENT OF TR & PUBLIC FA SOUTHEAST	RANSPORTATION CILITIES	N	
			REP	AN DRIVE I AIR AND E REPLACI ect No. 093	RIDGE	#601	1
			ERO	SION S	EDI	MEN	IT
DESIGN	EDBY:	S, SCHLICHTING	CO	NTROL	DET	'AII C	2
DRAWN	BY:	S. SCHLICHTING	CO	MINOL		MIL	,
PATH:	Q:\JNU\68	8092\PLANSET\68092_P1	-P2_ESCP_DETAILS.	DWG			
TAB	P1	Tuesday, July 29, 201	14 12:01:35 PM	SCHLICHTING	S, SARAH J (D	OT)	
	F	REVISIONS	PROJECT	DESIGNATION	YEAR	SHEET	TOTAL
NO,	DATE	DESCRIPTION				NO.	SHEETS

0932(052) / 68092 | 2014 | **P1** | 17



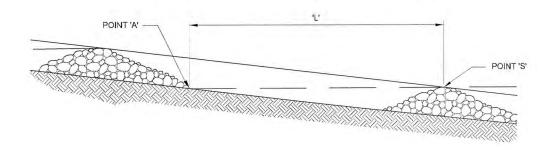
SECTION A-A





VIEW LOOKING UPSTREAM TEMPORARY ROCK CHECK DAM

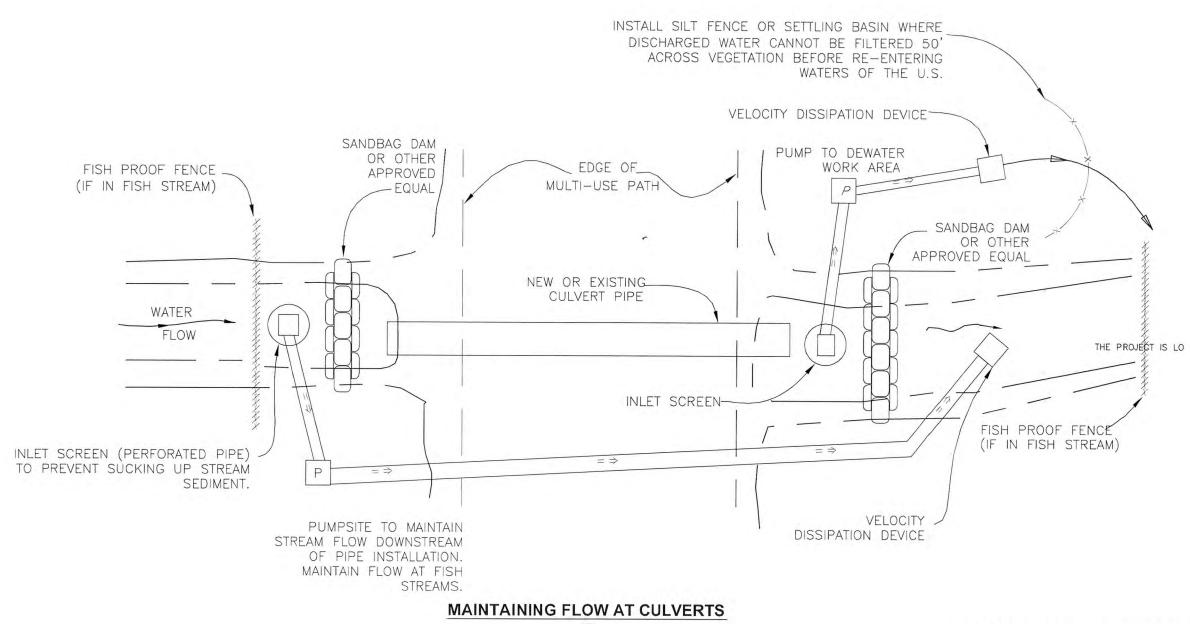




SPACING BETWEEN TEMPORARY ROCK CHECK DAMS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED	BY: C. T	RIPP		STATE OF ALL DEPARTMENT OF TRA & PUBLIC FAC SOUTHEAST F	INSPORTATION		
			JNU EGAN DRIVE MULTI-USE PATH REPAIR AND BRIDGE #6011 REPLACEMENT Project No. 0932(052) / 68092				
				SIONS			
DESIGNED DRAWN BY		S, SCHLICHTING S, SCHLICHTING	COL	NTROL	DET	AILS	5
		092\PLANSET\68092_P1-	P2_ESCP_DETAILS.DV	NG			
TAB: F	22	Tuesday, July 29, 201	4 12:01:14 PM	SCHLICHTING,	SARAH J (DC	T)	
-		EVISIONS	PROJECT D	ESIGNATION	YEAR	SHEET	TOTAL
NO.	DATE	DESCRIPTION				NO.	SHEETS



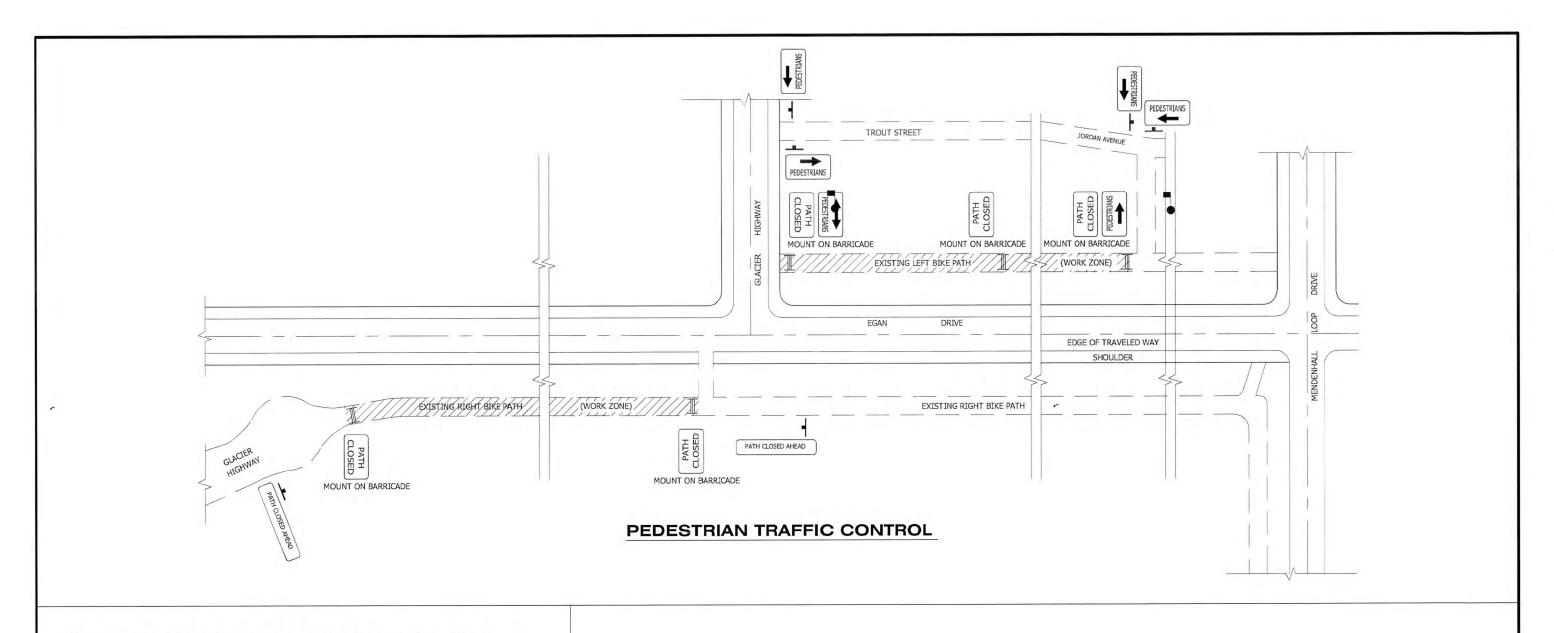
NOTES:

- MULTIPLE PUMPS MAY BE NECESSARY TO DEWATER WORK AREAS AND/OR MAINTAIN STREAM BYPASS FLOW. THE CONTRACTOR SHALL PROVIDE ADEQUATE QUANTITIES AND SIZES OF PUMPS.
- THIS PLAN IS A RECOMMENDATION ONLY. CONTRACTOR SHALL SUBMIT A FINAL WORK PLAN FOR APPROVAL BY THE PROJECT ENGINEER FOR EACH PIPE AT LEAST 10 DAYS BEFORE PLANNED INSTALLATION.
- 3. FOR PUMPING OPERATIONS, THE WATER INTAKE STRUCTURE SHALL BE CENTERED AND ENCLOSED IN A SCREENED BOX DESIGNED TO PREVENT FISH ENTRAPMENT, ENTRAINMENT, OR INJURY. THE INTAKE STRUCTURE MUST BE ENCLOSED AND CENTERED WITHIN A SCREENED BOX MADE OF NON-CORROSIVE MATERIAL WITH A MAXIMUM SCREEN-MESH SIZE OF 0.04 INCHES (1 mm). TO REDUCE FISH IMPINGEMENT ON SCREEN SURFACES, WATER VELOCITY AT THE SCREENWATER INTERFACE MAY NOT EXCEED 0.4 FEET PER SECOND WHEN THE PUMP IS OPERATING.

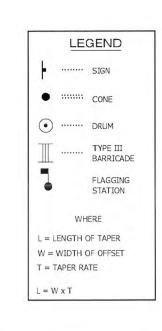
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION JNU EGAN DRIVE MULTI-USE PATH REPAIR AND BRIDGE #6011 REPLACEMENT Project No. 0932(052) / 68092 **EROSION SEDIMENT** DESIGNED BY: S. SCHLICHTING **CONTROL DETAILS** DRAWN BY: S. SCHLICHTING PATH: Q:JNU/68092/PLANSET/68092_P1-P2_ESCP_DETAILS.DWG Tuesday, July 29, 2014 12:08:42 PM SCHLICHTING, SARAH J (DOT) REVISIONS YEAR SHEET TOTAL NO. SHEETS PROJECT DESIGNATION NO. DATE DESCRIPTION

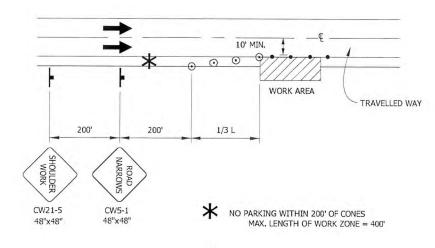
0932(052) / 68092 | 2014 | **P3** | 17



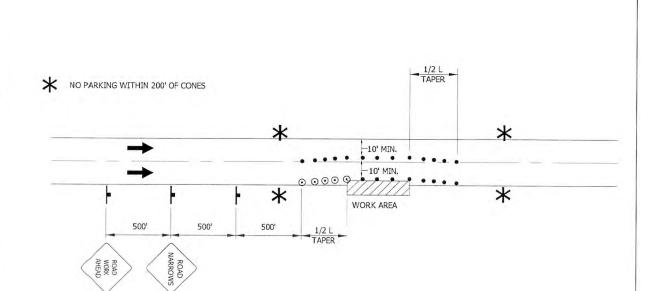
- IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL
 CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED
 BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- 2. PEDESTRIAN TRAFFIC BETWEEN GLACIER HIGHWAY AND MENDENHALL LOOP ROAD SHALL BE MAINTAINED AT ALL TIMES.
- 3. A FLAGGER SHALL BE USED TO DIRECT TRUCKS AND CONSTRUCTION EQUIPMENT WHEN THEY ENTER OR CROSS THE TRAVELED WAY.
- 4. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
- 5. CHANNELIZATION DEVICES WILL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL IF USED AT NIGHT.
- THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, PATH CLOSURES, AND PEDESTRIAN BRIDGE CONSTRUCTION ACTIVITIES.
- 7. CONSTRUCTION OF ALIGNMENT "A" BETWEEN THE CUL-DE-SAC AND PEDESTRIAN CROSSWALK AT THE INTERSECTION OF EGAN DRIVE AND GLACIER HIGHWAY SHALL BE CONDUCTED IN THE EVENING HOURS OF 9pm 6am. THE PATH SHALL BE LEFT IN A FULLY TRAVERSABLE CONDITION EACH DAY AT THE END OF NIGHT TIME OPERATIONS.
- 8. THE CONTRACTOR MAY NOT STAGE EQUIPMENT ANYWHERE ALONG EGAN DRIVE AND/OR WITHIN THE CLEAR ZONE (30 FEET FROM THE EDGE OF PAVEMENT).
- 9. TRAFFIC LANES SHALL BE A MINIMUM OF 10'ft WIDE.
- 10. ALL ROADS WITHIN THE PROJECT LIMITS SHALL REMAIN OPEN TO TRAFFIC. SHORT-TERM SINGLE LANE CLOSURES ARE ALLOWED FOR BRIDGE PLACEMENT AND OTHER MISC. BRIDGE WORK.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS CHECKED BY: C. TRIPP TCP NOT SEALED IN ACCORDANCE JNU EGAN DRIVE MULTI-USE PATH WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012. REPAIR AND BRIDGE #6011 REPLACEMENT Project No. 0932(052) / 68092 PEDESTRIAN TRAFFIC DESIGNED BY: S. SCHLICHTING CONTROL PATH: Q:\JNU\68092\PLANSET\68092_T1_TRAF.DWG Tuesday, July 29, 2014 11:59:04 AM SCHLICHTING, SARAH J (DOT) YEAR SHEET NO. REVISIONS
NO. DATE DESCRIPTION PROJECT DESIGNATION TOTAL 0932(052) / 68092 | 2014 | **T1** 17



SHOULDER WORK



ROADWAY ENCROACHMENT

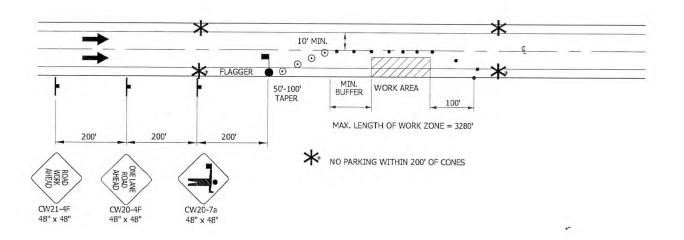
NOTE: IF ONLY ONE LANE IS AFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.

CW21-4F

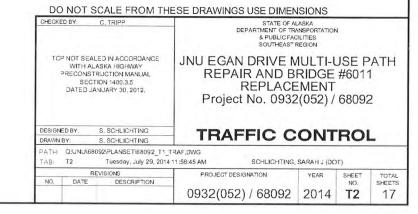
48"x48"

CW5-1

48"x48"



SINGLE LANE CLOSURE TWO LANE ROAD



CBJ Land Use Code Title 49.70, Article IV

DOT&PF's replacement project for Bridge No. 6011 Jordan Creek features a rapid delivery schedule. Therefore, in order to ensure compliance with CBJ's flood plain ordinance, I instructed our bridge designer to specify that the new bridge be longer and higher than the existing bridge, thus providing more flood conveyance than the existing structure. Like the bridge to be replaced, the lower parts of the new bridge (low chord of the superstructure) would be inundated during the base flood (aka the "100-year" or "1% annual chance" flood). The new bridge superstructure will be a truss. The open spaces between the structural members of the truss provide additional flood conveyance potential, whereas the solid arch superstructure of the existing bridge offered none. Figures 1 & 2 illustrate the differences between the bridge types.



FIGURE 1. Existing Bridge No. 6011 Jordan Creek.

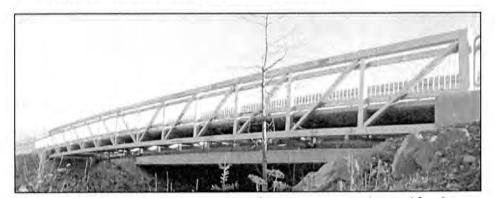


FIGURE 2. An example of the truss type of superstructure to be used for the Bridge No. 6011 replacement. The photo is of a pedestrian bridge in Anchorage over Ship Creek. (The concrete bridge in the background is the Glenn Highway.)

Flood Protections

The new bridge will be supported by shallow spread footings behind sheet piling retaining walls. The likelihood of the bridge being moved off the bearings by hydraulic forces is very low due to the weight of the bridge. However, if that were to happen, the sheet piling would prevent any significant displacement downstream. Figure 3 illustrates how the bridge superstructure would be "contained" within these sheet piling supports.

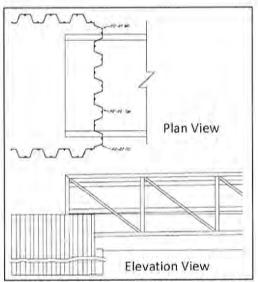


FIGURE 3. Abutment provisions that serve to protect against lateral displacement.

It is unlikely that debris accumulation will be an issue for the new bridge. Immediately upstream of the bridge site are the two Egan Drive culverts (both 8'-2" x 5'-9" pipe arches). If the upper reaches of Jordan Creek are able to float large wood downstream, that debris would likely accumulate at the upstream ends of the Egan Drive culverts.

Flood Analysis Background

The Flood Insurance Study (FIS) for Juneau, adopted in August 2013, includes a defined regulatory floodway for Jordan Creek. The lower reaches of Jordan Creek downstream of Egan Drive is a designated flood hazard area. As noted above, the existing Bridge No. 6011 is partially inundated during the base flood conditions. This obstruction was included in FIS study that defined the regulatory floodway for the creek. Figure 4 shows published flood profile for Jordan Creek.

In 2007, the U.S. Geological Survey (USGS) published a report titled, "Hydrology and flood Profiles of Duck Creek and Jordan Creek Downstream from Egan Drive, Juneau, Alaska" (Scientific Investigations Report 2006-5323). The Federal Emergency Management Agency (FEMA) contractor responsible for the 2013 FIS revision was Northwest Hydraulics Consultants (NHC). NHC included the USGS work in its restudy effort of Jordan Creek. Water surface profiles were computed during the restudy using the U.S.

Army Corps of Engineer's "HEC-RAS" software. The effects of various hydraulic structures (culverts and bridges) were accounted for in the analysis. The USGS profile for Jordan Creek is illustrated on page 28 of the aforementioned report.

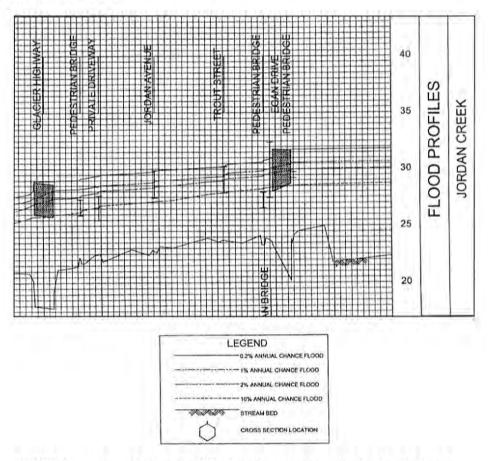


FIGURE 4. An excerpt from the 2013 Flood Insurance Study for Jordan Creek. Note that Bridge No. 6011 is immediately downstream (to the left) of Egan Drive.

DOT&PF has a copy of the HEC-RAS model that was used by the USGS when completing its 2007 report. In that model, the predicted "100-year" flood water surface at the Bridge No. 6011 is about 29.5 ft. If the CBJ requests that DOT&PF demonstrate that the new bridge will not introduce new hazards, I am willing to do so. From years of modeling experience, I can say with certainty that by a longer and slightly higher bridge will have a smaller effect on the flood profile than the existing bridge.