Alyeska pipeline SERVICE COMPANY

P.O Box 196660 ANCHORAGE, ALASKA 99519-6660 TELEPHONE (907) 787-8700

March 8, 2019

Letter No. 41892

Mr. Tom Stokes, State Pipeline Coordinator
Alaska Department of Natural Resources
3651 Penland Parkway
Anchorage, AK 99508

RE: Trans-Alaska Pipeline System, Pipeline Milepost 779.8
Land Description Modification for Right-of-Way Lease, ADL 63574
Cathodic Protection (CP) Improvements at Old Richardson Highway & Lowe River

Dear Mr. Stokes:

Alyeska Pipeline Service Company, agent for the Trans Alaska Pipeline System lessees, hereby applies to modify the description of the TAPS facilities attached to the referenced lease in order to include lands needed to accommodate the subject new construction. This follows discussions in the recent Monthly Lands and Permits Meeting.

The lands required for construction are described on Attachment A, and a narrative and drawings are enclosed describing the work in further detail. The lands needed to accommodate the new structure after construction will be precisely described upon completion of the as-built survey.

Copper Valley Electric Association is coordinating with Alyeska on delivering electrical power to TAPS for CP at several locations, including the subject site. CVEA will conduct all horizontal directional drilling required at this site and is applying for the required permits. Alyeska is filing additional applications at ADNR (contingency water use), ADEC (water discharge) and ADOTPF. The work is planned to begin as early as May 15, 2019.

Thank you for your assistance in this matter. Please contact me at 787-8170 if we can provide additional information.

Sincerely,

Peter C. Nagel, SR/WA
Land and Right-of-Way

Enclosures

cc: SPCS Records

ATTACHMENT A

Township 9 South, Range 4 West (Copper River Meridian)

Section 12 W2SE4 and E2SW4, those lands within the old Richardson Highway right-of-way including across the Lowe River, containing approximately 2.1 acres (See attached drawings).

Trans Alaska Pipeline System
PLMP 779.8 – 780.3 Cathodic Protection Improvements
Permit Narrative (February, 2019)

Purpose

The purpose of this project is to protect the integrity of the Trans-Alaska Pipeline (Mainline) from external corrosion. To accomplish this, cathodic protection (CP) levels will be enhanced through the installation of two new AnodeFlex systems (System A and System B).

Site Description

The site is located approximately 17 miles east of Valdez. System A is on the north side of and beneath the Lowe River and System B is on the south side of the Lowe River. Access to System A will be via the Richardson Highway (MP 16.8) and to B via the Richardson Highway (MP 16.1) and TAPS Access Road 5 APL-1.

Project Description

System A comprises approximately 1,500 feet of AnodeFlex trenched along a segment of the Old Richardson Highway, and System B approximately 3,090 feet along the Mainline. System A will be connected to the buried pipeline via a bored crossing of the Lowe River. The AnodeFlex will be energized by two new rectifiers and a new Copper Valley Electric Association (CVEA) service drop to be located within the existing TAPS ROW.

Land Use

A new Right-of-Way (ROW) amendment is being requested for the CP cables under the Lowe River. CVEA will perform the Horizontal Directional Drilling (HDD) under the Lowe River and pull two conduits, one for the power cable and one for the CP cables.

Work in and Around Water

System A will be installed within the old highway bed and parallel to a stream containing anadromous fish habitat. The Work is designed to not impact the stream, and the trench location will be adjusted, if needed, during implementation to avoid impacting surface water. Brushing along the old highway bed will be required for System A; a vegetative buffer will be left in place between the trench and the stream. Construction for System A will be targeted between May 15 – July 15 to further minimize impacts to fish spawning.

System B may require a pump-around of a seasonal drainage stream at PLMP 780.24

Environmental Considerations

The area vegetation consists of mostly grasses and willow trees, with spruce and alders. Precautions will be taken to minimize disturbances to the vegetation and wildlife. No wetlands will be impacted by the work. Due to the steep slopes from PLMP 779.8 – 780, strong erosion control measures will be implemented.

Construction Sequence

1. Mobilize personnel and equipment
2. Site preparation and laydown
3. Brushing the ROW and Old Richardson Highway
4. Haul cable bedding material
5. Excavate trench, install AnodeFlex and cables, and backfill
6. Install pedestal-mounted junction boxes
7. Install erosion control materials on steep disturbed areas
8. Excavate the Mainline for negative connections and backfill
9. Install equipment rack, conduits, terminate cables, and install chain-link fence
10. Coordinate with CVEA for service connection
11. Energize new system and Functional Check-Out
12. Site clean-up and demobilize.

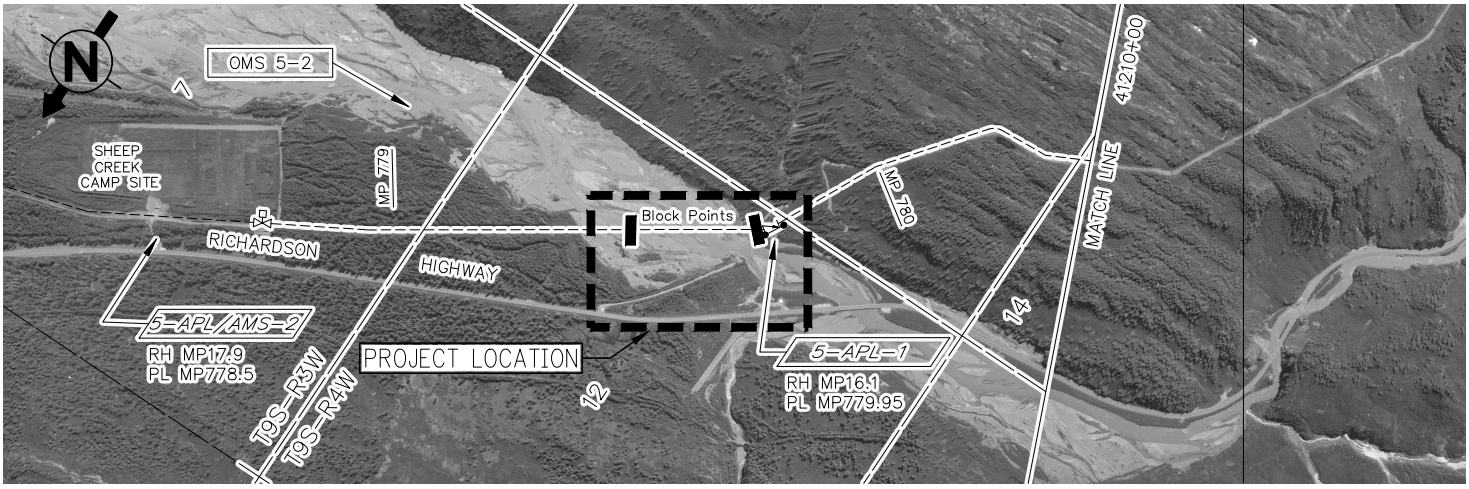
The work sequence may be altered slightly depending on field conditions encountered at time of construction.

Equipment

Equipment requirements include tractor side-dumps, articulated haul trucks, excavators, front-end loaders, dozers, a fuel truck, and a water truck.

Implementation Schedule

The work is expected to take about 3 weeks to complete starting as soon as May 15, 2019.

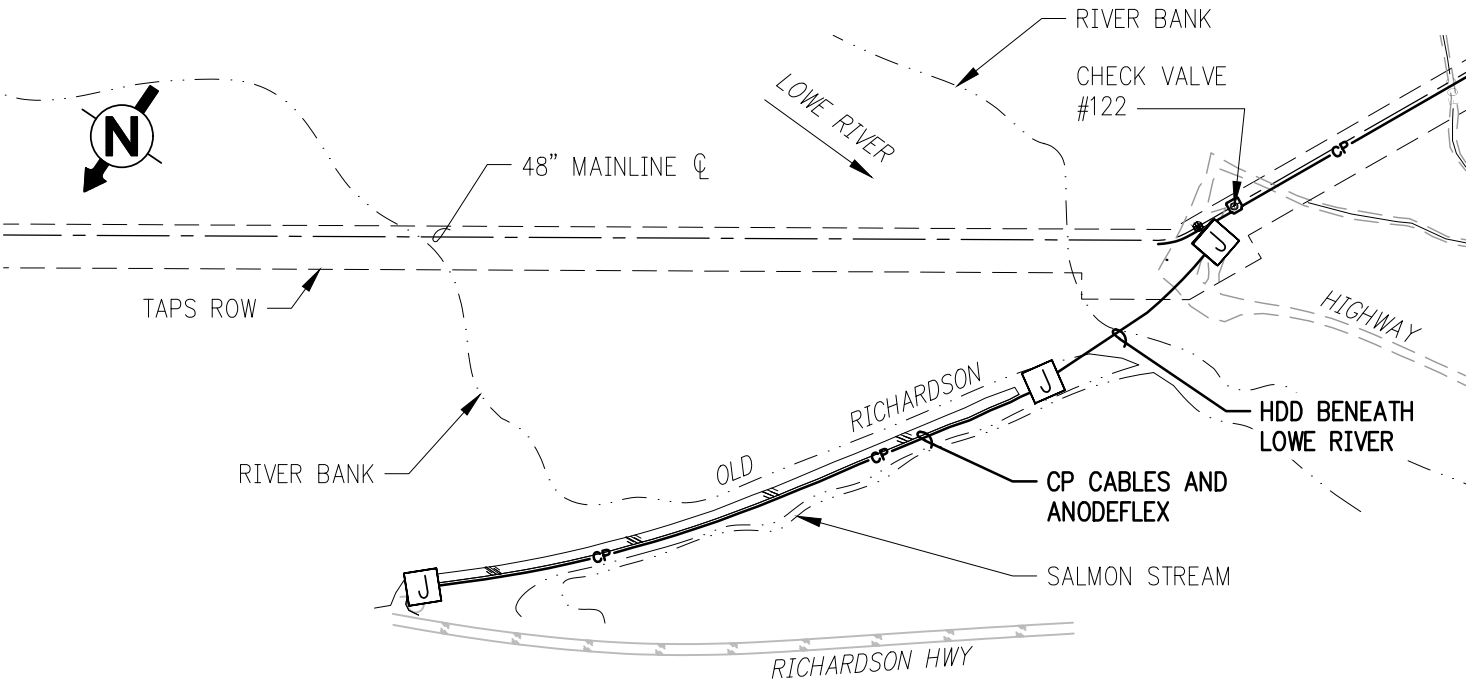


0 1000 2000 4000 6000

1"=2000'-0"

G100 ALIGNMENT SHEET 139
LAND OWNER: STATE OF ALASKA
MERIDIAN: COPPER RIVER, T9S R4W, SECTION 12
LATITUDE: 61° 05' 44.1" N
LONGITUDE: 145° 51' 40.1"W
ESTIMATED EXCAVATION VOLUME: 2380 CY
ESTIMATED EXCAVATION AREA: 4600 SF
PROPOSED CONSTRUCTION AREA: 2.01 ACRES

FOR PERMITTING PURPOSES ONLY



LOWE RIVER VICINITY

SCALE: NTS

NOTES:
1. JUNCTION BOXES, CP CABLES, AND ANODEFLEX SHALL BE LOCATED WITHIN THE EXISTING OLD RICHARDSON HIGHWAY RIGHT-OF-WAY.

ALYESKA PIPELINE SERVICE CO.

H119 – 2019 CATHODIC PROTECTION CAPITAL IMPROVEMENTS
PLMP 779.8 – 780.3 ANODEFLEX
LOWE RIVER VICINITY

TRANS ALASKA PIPELINE SYSTEM

REV.	DWN.	CKD.	APPR.	DATE	DRAWING
A	RMG	BRD	MAF	03/07/19	A-00-PER780
				SCALE: AS NOTED	SHEET 1 OF 4

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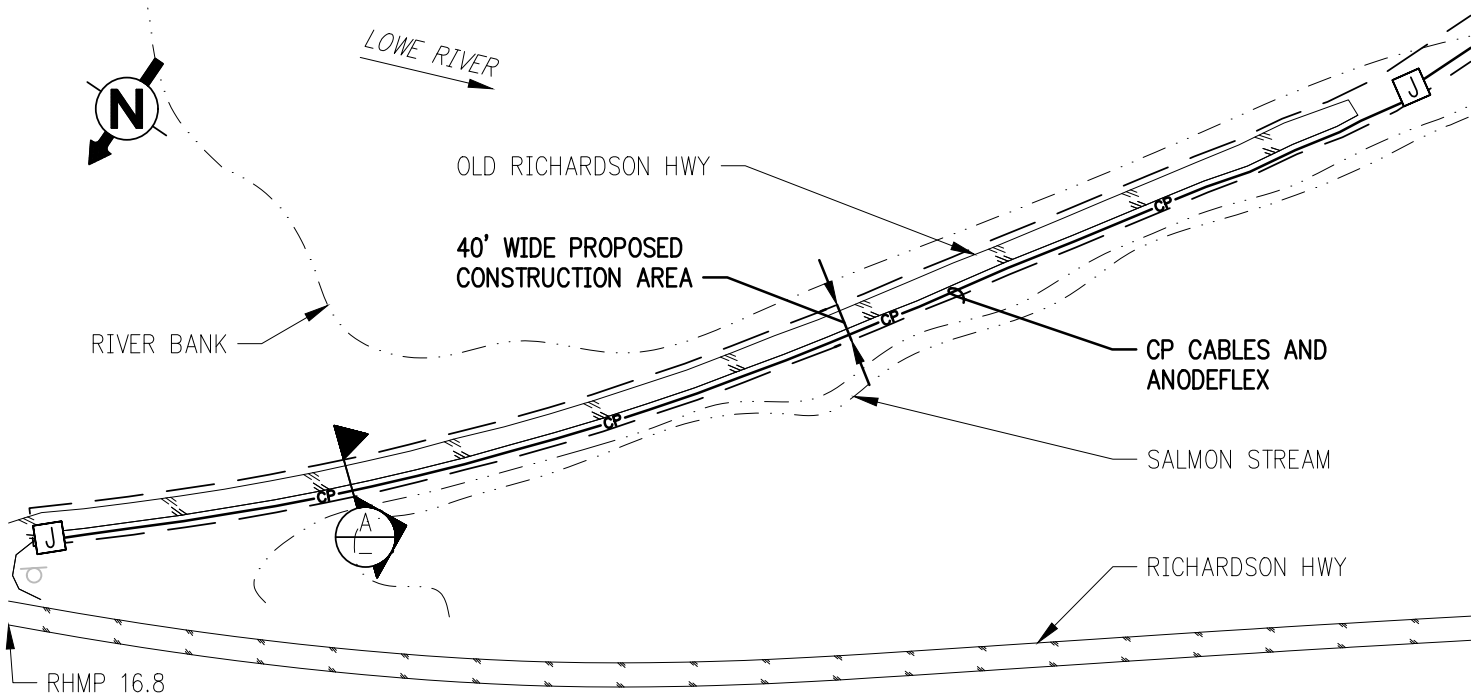
AFFECTED BY: -----

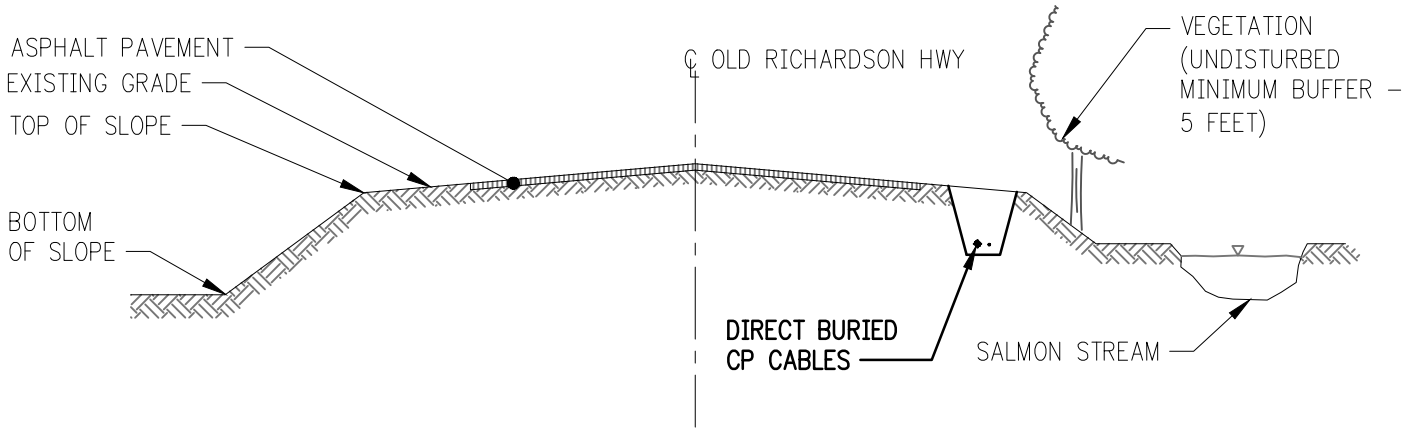
FILENAME:A-00-PER780 SH 1 PLOT SCALE:1:1 DATE: 03/04/19



OLD RICHARDSON HWY AREA

0 100 200 400 600

1"=200'-0"



TYP TRENCH SECTION

A

SCALE: NTS

NOTES:

1. JUNCTION BOXES, CP CABLES, AND ANODEFLEX SHALL BE LOCATED WITHIN THE EXISTING OLD RICHARDSON HIGHWAY RIGHT-OF-WAY.
2. ADDITIONAL BEST MANAGEMENT PRACTICES (e.g. SILTFENCING) WILL BE USED, AS NEEDED, TO PROTECT THE SALMON STREAM.

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TRANS ALASKA PIPELINE SYSTEM

H119 - 2019 CATHODIC PROTECTION CAPITAL IMPROVEMENTS
PLMP 779.8 - 780.3 ANODEFLEX
OLD RICHARDSON HIGHWAY AREA

REV.	DWN.	CKD.	APPR.
A	RMG	BRD	MAF

DATE: 03/07/19

A-00-PER780

SCALE: AS NOTED

SHEET 2 OF 4

AUTOCAD DWG. DO NOT REVISE MANUALLY.

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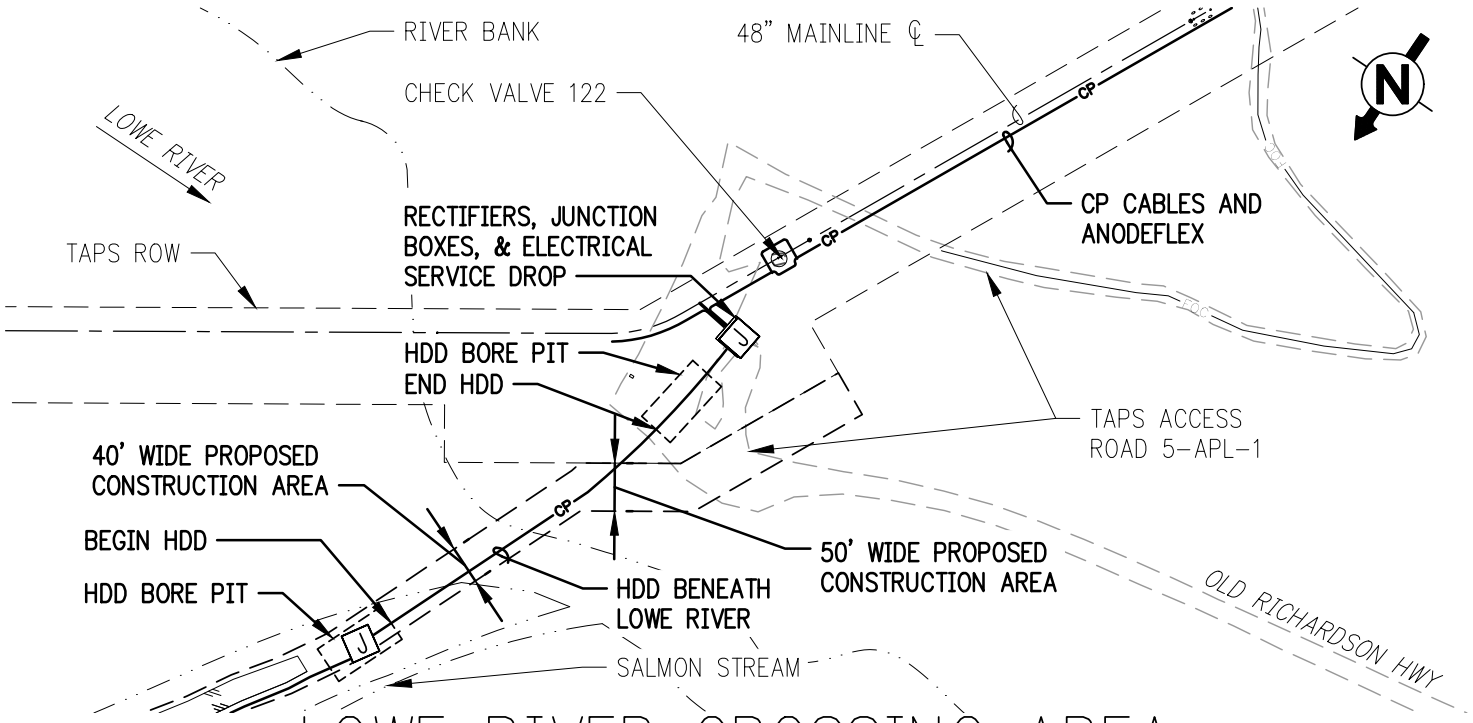
DATE: 03/04/19

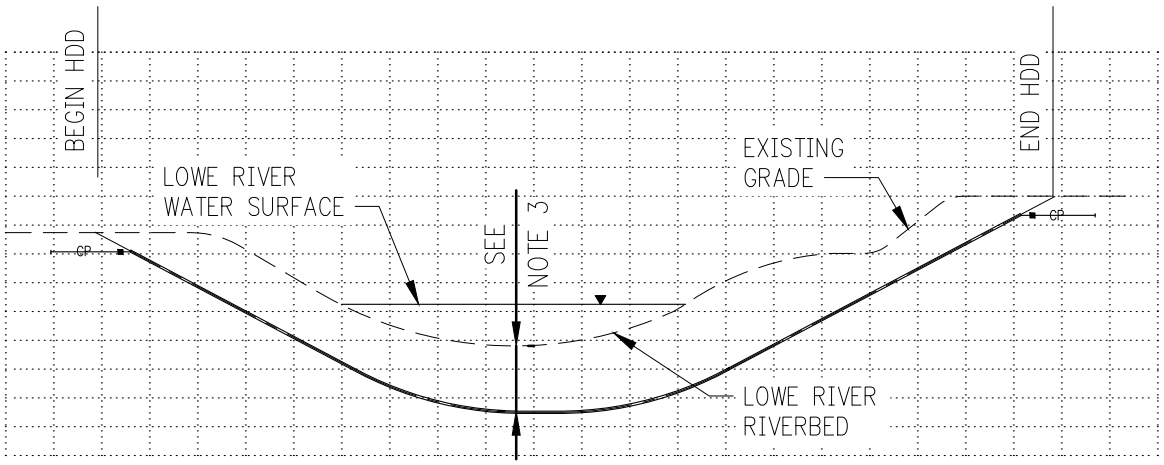
FILENAME:A-00-PER780 SH 2 PLOT SCALE:1:1



LOWE RIVER CROSSING AREA

0 100 200 400 600

1"=200'-0"



PROFILE SKETCH

SCALE: NTS

NOTES:

1. JUNCTION BOXES, CP CABLES, AND ANODEFLEX SHALL BE LOCATED WITHIN THE EXISTING OLD RICHARDSON HIGHWAY RIGHT-OF-WAY.
2. LOCATION OF BORE PITS AND HDD BEGINNING AND END ARE APPROXIMATE.
3. HDD BENEATH LOWE RIVER WILL BE PERFORMED BY CVEA. SEE CVEA DESIGN FOR DETAILS

FOR PERMITTING PURPOSES ONLY

ALYESKA PIPELINE SERVICE CO.

H119 – 2019 CATHODIC PROTECTION CAPITAL IMPROVEMENTS
PLMP 779.8 – 780.3 ANODEFLEX
LOWE RIVER CROSSING AREA

TRANS ALASKA PIPELINE SYSTEM

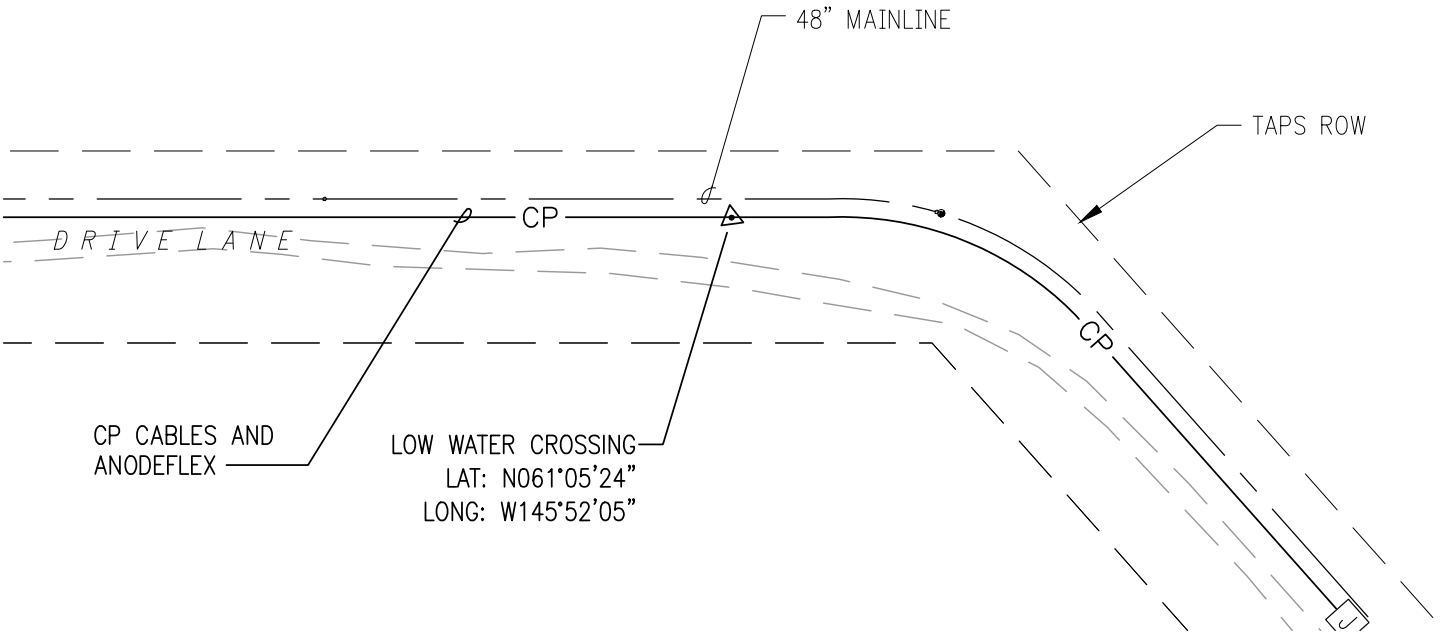
REV.	DWN.	CKD.	APPR.	DATE	SCALE	SHEET
A	RMG	BRD	MAF	03/07/19	AS NOTED	A-00-PER780 _3_ OF _4_

AUTOCAD DWG. DO NOT REVISE MANUALLY.

AFFECTED BY: _____

DATE: 03/04/19

FILENAME:A-00-PER780 SH 3 PLOT SCALE:1:1



LOW WATER CROSSING

PLMP 780.24

NOTE: no additional land use authorization is required at the LWC. The sheet is included with letter no. 41892 for information only.

NOTES:

1. LOW WATER CROSSINGS WILL HAVE SAND BAG DAMS AND PUMP AROUNDS WITHIN EXISTING RIGHT OF WAY TO DIVERT WATER FROM UPSTREAM TO DOWNSTREAM TO ALLOW FOR TRENCHING. CROSSINGS WILL BE REPAIRED TO PRE-EXISTING CONDITION OR BETTER AFTER CONSTRUCTION IS COMPLETE.

FOR PERMITTING PURPOSES ONLY

1"=100'-0" 0 50 100 200 300

ALYESKA PIPELINE SERVICE CO.

H119 - 2019 CATHODIC PROTECTION CAPITAL IMPROVEMENTS
PLMP 779.8 - 780.3 ANODEFLEX
LOW WATER CROSSING

TRANS ALASKA PIPELINE SYSTEM

REV.	DWN.	CKD.	APPR.	DATE	
A	RMG	BRD	MAF	03/07/19	A-00-PER780
				SCALE: AS NOTED	SHEET 4 OF 4

AUTOCAD DWG. DO NOT REVISE MANUALLY.

AFFECTED BY: ----- AFFECTED BY: ----- AFFECTED BY: ----- AFFECTED BY: ----- AFFECTED BY: -----

DATE: 03/04/19

FILENAME:A-00-PER780 SH 4 PLOT SCALE:1:1