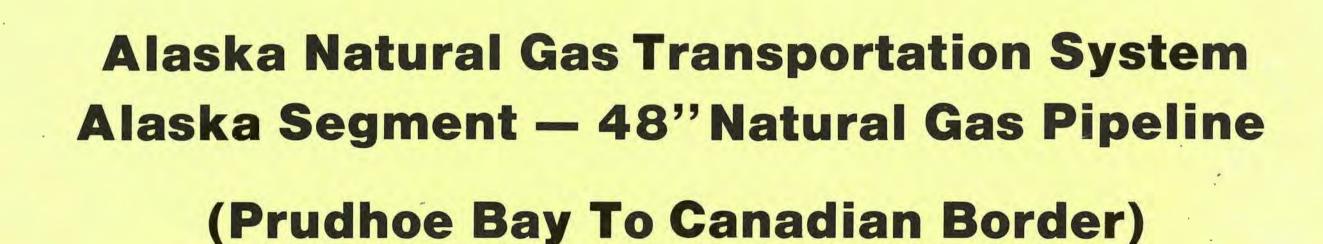
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Level 1
Alignment Sheets 1 Thru 131 (Revision 3)
Topographic Supplement 1A Thru 22B

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ALASKA SEGMENT OF ANGTS

ENVIRONMENTAL MASTER GUIDE LEVEL I

PREPARED

MARCH 1981

ARLIS

Alaska Resources
Library & Information Services
Anchorage, Alaska

PREFACE TO ENVIRONMENTAL MASTER GUIDE

The Environmental Master Guide (EMG) is a compilation of environmental information on the Alaska segment of Alaska Natural Gas Transportation System (ANGTS). It provides rapid access to information on sensitive areas and time periods which result in design limitations and construction restraints.

The EMG is based on existing literature and field studies as well as NWA sponsored research and investigations. These data are evaluated and integrated into the EMG by NWA/Fluor Environmental Affairs. The EMG is a

living document; it will be refined with new environmental data and project information. Agency interaction has been instrumental in the development of the EMG.

The EMG is composed into three "Levels." <u>Level I</u> consists of a set of alignment sheets and a set of topographic sheets. <u>Level II</u> consists of data sheets with detailed information about the entries on <u>Level II</u>. <u>Level III</u> is a bibliography of the information used to develop the EMG.

LEVEL 1

ALIGNMENT SHEETS

Level I alignment sheets graphically depict environmentally sensitive areas such as fish streams and nest areas, as well as selected project features such as compressor stations that may impact these areas. Each alignment sheet also has a calendar of sensitive periods for the areas covered. A coding system identifies the entries and each entry is correlated with a Level II data sheet.

TOPOGRAPHIC SUPPLEMENT

The topographic sheets depict an overview of wildlife habitats and movement zones including coverage beyond the alignment sheet photobands. The topographic sheets differ from the alignment sheets in that they do not contain fisheries and stream information, but they do present species and range information which is better displayed at a large scale. Also depicted on the topographic sheets are selected project features such as potential material sites.

(Figures 1 and 2 are samples of the alignment and topographic sheets with instructions for their use.)

LEVEL II

Level II data sheets contain expanded information on Level I entries.

It is intended that a Level II data sheet will synthesize information necessary for daily project decisions affecting a particular environmental resource. Level II Biological information includes: species and habitat data, protection strategies, specific restrictions, source document citations, and other information pertinent to the site.

LEVEL III

Level III is a discrete set of documents used to develop all levels of the Environmental Master Guide and cited in Level II. The documents are comprised of reports, maps and drawings generated from the gasline project, published literature, and unpublished agency files and sources.

TERMS AND DEFINITIONS

- AS Archaeological Sites: are cultural resources that include prehistoric or historic archaeological remains, standing historic structures, and sites considered culturally important to the regional inhabitants. Each is mapped in Level I with "floating boundaries," indicating the general area of concern but masking specific location. The use of floating boundaries aids in protecting these sensitive sites from unauthorized disturbance. State identification numbers appear with archaeological site codes on alignment sheets only.
- B Bison habitats: depicted are areas of bison use.*
- BB <u>Black bear habitats</u>: are areas of intensive year round use by black bear.*
- BE <u>Bald Eagle habitats</u>: are areas observed or cited in literature to be nesting sites for Bald Eagles. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location. Identification numbers per David Roseneau appear with site codes on alignment sheets only.
- BM <u>Bison movement zones:</u> are areas traversed by bison during traditional seasonal migrations.*
- C Caribou habitats: are areas of seasonal concentrations of caribou.*
- CC Caribou calving habitats: are areas utilized by caribou for calving.*
- CM <u>Caribou movement zones:</u> are areas traversed by caribou during traditional seasonal migrations.*
- DS <u>Dall sheep habitats</u>: are areas of seasonal concentrations of Dall sheep.
- DSL <u>Dall sheep lambing habitats</u>: are areas observed or cited in the literature as being used by <u>Dall sheep</u> for lambing. These habitats are areas of steep, mountainous terrain.

- DSM Dall sheep movement: zones are areas traditionally traversed by Dall sheep.*
- EH Endangered species habitats: are areas observed or cited in the literature to have been nest sites for peregrine falcons. Nest sites are further classified into "likely" or "not likely" to be reoccupied. Specific nest locations are masked by "floating boundaries" to conceal their exact location. Identification numbers per David Roseneau appear with site codes on alignment sheets only.
- EMS Exploration material sites: are proposed areas to be investigated and possibly developed as a borrow pit for gravel, riprap, shot rock and other earth materials to be used for workpad, access road, backfill and other civil construction.*
- FH <u>Fish habitats</u>: are waterbodies used by fish populations; use may include overwintering, spawning, rearing and migration. (Alignment sheets only.)
- GB Grizzly bear habitats: are areas of year round concentrations of grizzly bears.*
- GE Golden Eagle habitats: are areas observed or cited in literature to be nesting sites for Golden Eagles. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location. Identification numbers per David Roseneau appear with site codes on alignment sheets only.
- GGO Great Gray Owl habitats: are areas observed or cited in literature to be nesting sites for Great Gray Owls. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location.*
- GHO <u>Great Horned Owl habitats:</u> are areas observed or cited in literature to be nesting sites for Great Horned Owls. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location.*

- GOS Goshawk habitats: are areas observed or cited in literature to be nesting sites for Goshawks. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location.*
- GYR Gyrfalcon habitats: are areas observed or cited in literature to be nesting sites for Gyrfalcon. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location. Identification numbers per David Roseneau appear with site codes on alignment sheets only.
- M Moose habitats: are areas of seasonal concentrations of moose.*
- MC Moose calving habitats: are areas utilized by moose for calving.*
- ML Mineral licks: are areas of natural mineral spring or mineral deposits at the ground surface and used by mammals as a mineral source.
- MM Moose movement zones: are areas traditionally traversed by moose.*
- MP <u>Mile Posts</u> along the pipeline route are displayed every mile on the alignment sheets and every five miles on the topographic sheets and are sequential from Prudhoe Bay to the Canadian Border.
- OS Osprey habitats: are areas observed or cited in literature to be nesting sites for Osprey. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location. Identification numbers per David Roseneau appear with site codes on alignment sheets only.
- RLH Rough Legged Hawk habitats: are areas observed or cited in literature to be nesting sites for Rough Legged Hawks. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location. Identification numbers per David Roseneau appear with site codes on alignment sheets only.
- RTH Red Tailed Hawk habitats: are areas observed or cited in literature to be nesting sites for Red Tailed Hawks. Specific raptor nest locations are masked by "floating boundaries" to conceal their exact location.*

- RX River and floodplain crossings: designate rivers or floodplains traversed by the NWA alignment. If the crossing is fish habitat the code will be followed by FH. (Alignment sheets only.)
- SC <u>Sandhill crane habitats</u>: are areas of sandhill crane concentration for breeding, nesting, molting, staging and feeding.
- SCM <u>Sandhill crane migration</u>: and resting areas are seasonal migration routes and resting areas used by sandhill cranes. Resting areas have been designated "sensitive." Arrows show migration routes.*
- SWD <u>Solid waste disposal sites</u>: are proposed areas used to dispose of residue from incinerators, nonrecoverable scrap materials and other inert wastes.*
- SY Storage yards: are proposed areas used for storage of pipeline materials and equipment.*
- WB <u>Waterbird habitats</u>: are areas of waterbird concentration for breeding, nesting, molting, staging and feeding.
- WBM <u>Waterbird migration</u>: and resting areas are seasonal migration routes and resting areas used by waterbirds. (Resting areas have been designated "sensitive.") Arrows show migration routes.*

* topographic sheets only (alignment sheets only)

FACILITIES

- A. Camps depicted represent proposed pipeline construction camps, and are called out on the photoband. Those that are off the photomosaic on the alignment sheets appear under "sites not on the alignment sheet."
- B. <u>Compressor stations</u> are facilities for compressing and chilling incoming gas and appear in the photomosaic. Future Compressor

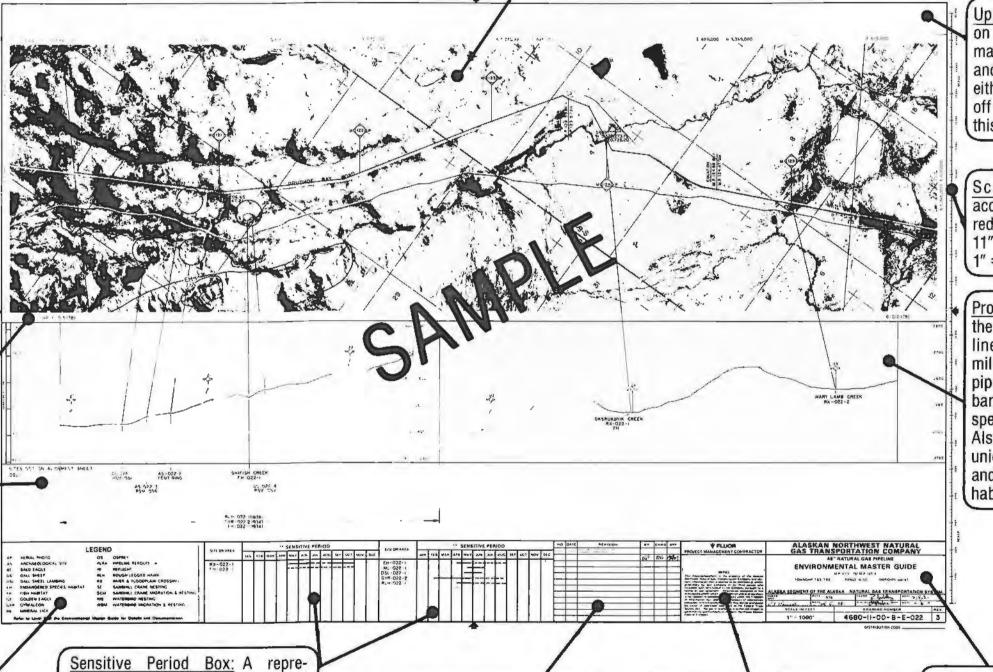
- station locations appear in profile data box in the general vicinity of the site.
- C. <u>Metering stations</u> are facilities for measuring quantities of gas and appear on photomosaic.

Photo Mosaic: The photo mosaic is a composite of aerial photographs on which various data have been graphically indicated. The photo band encompasses an area 2 miles wide and 6 miles long. Sites or habitats confined to concise locations have entry codes numbered sequentially on each alignment sheet. For example: RX-022-1FH (Oksrukyik Creek) defines this as a river crossing with fish habitat on alignment sheet #022. Mammal and waterbird habitats which cannot be confined to specific areas have entry codes numbered sequentially from north to south along the pipeline route. For example: WBM-2 defines the waterbird migration and nesting area as the second such habitat encountered by the pipeline alignment.

FIGURE 1 LEVEL I ALIGNMENT SHEET

Aerial Photo Number: This box shows the aerial photos which compose the alignment sheet. For example: AP 6-015(78) means aerial photo of flight number 6; 015 is the photo number for that flight. (78) is the year it was flown. APRF signifies it is a reflight of the aerial photo; PLRA signifies a reflight for pipeline reroute "A".

Lower Data Box: Data from Level II on fish habitat, raptor habitat, mammal habitat, waterbird nesting and archaeological sites which are either "below" the pipeline or totally off the photo mosaic appear in this box.



Upper Data Box: Data from Level II on fish habitat, raptor habitat, mammal habitat, waterbird nesting and archaeological sites which are either "above" the pipeline or totally off of the photo mosaic appear in this box.

Scale Adaptation: Used for accurately computing the scale on reduced maps. The scale on the 11" x 17" Level I alignment sheets is 1" = 2375'.

Profile Data Box: This box portrays the topographic profile of the pipeline alignment and associated mileposts. Data intersecting the pipeline are depicted on the photo band and connected by lines to specific pipeline profile locations. Also included in this box are unique/sensitive vegetation areas and areas having high wildlife habitat value.

Legend: An explanatory list of th symbols used to note data entries.

sensitive Period Box: A representation by calendar chart of environmentally sensitive (---) and critical (—) times which may limit access and other activities. "X" denotes actual times will be subject to field determination.

Revision Block: Shows each revision by number, the date it was made, and the purpose of the revision.

Confidentiality Box: Notice of ownership and confidentiality of the information contained on these sheets.

Title And Drawing Number Block: This block gives the scale, drawing number, revision number, milepost range covered, township, range, and meridian. Photo Mosaic: The photo mosaic is a composite of USGC 1:63360 maps encompassing an area approximately 36 miles long by 10 miles wide and on the reductions approximately 20 miles long by 10 miles wide. Township, range and section numbers appear on the photo mosaic, and mileposts are given every five miles.

Sites or habitats confined to concise locations have entry codes numbered sequentially per the alignment sheets. For example: AS-022-3 defines the third archaeologically sensitive site on alignment sheet #022.

Mammal and waterbird habitats which cannot be confined to specific areas have entry codes numbered sequentially from north to south along the pipeline route. For example.: WBM-2 defines the waterbird migration and nesting area as the second such habitat encountered by the pipeline alignment.

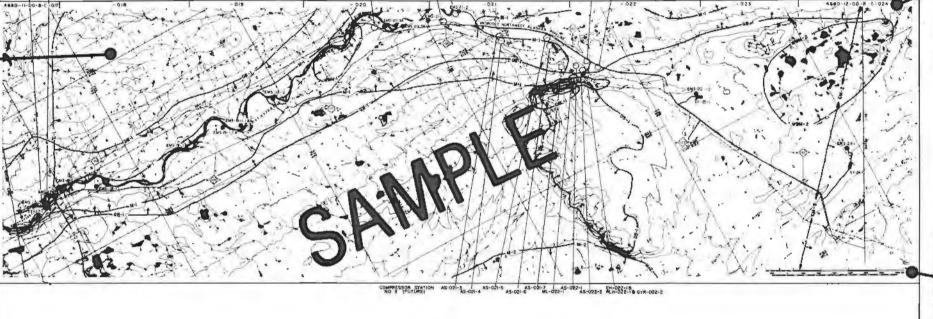
Upper Data Box: This block is for the call-out of archaeological sites, mineral licks, solid waste disposal sites, and raptor habitats which are either "above" the pipeline or totally off the photo mosaic.

FIGURE 2 LEVEL I TOPOGRAPHIC SHEET

Alignment Sheet Number Box: In this block the environmental master guide alignment sheet number is shown giving the correlation between the alignment sheet drawings and the topographic supplement drawings.

Scale: This set of drawings was generated from USGS 1:63360 maps in which 1" = 1 mile. A scale is shown for accurately computing distances on reduced maps.

Lower Data Box: This block is used for the call-out of archaeological sites, mineral licks, raptor habitats, proposed compressor stations, and solid waste disposal sites which are either "below" the pipeline or totally off the photo mosaic.

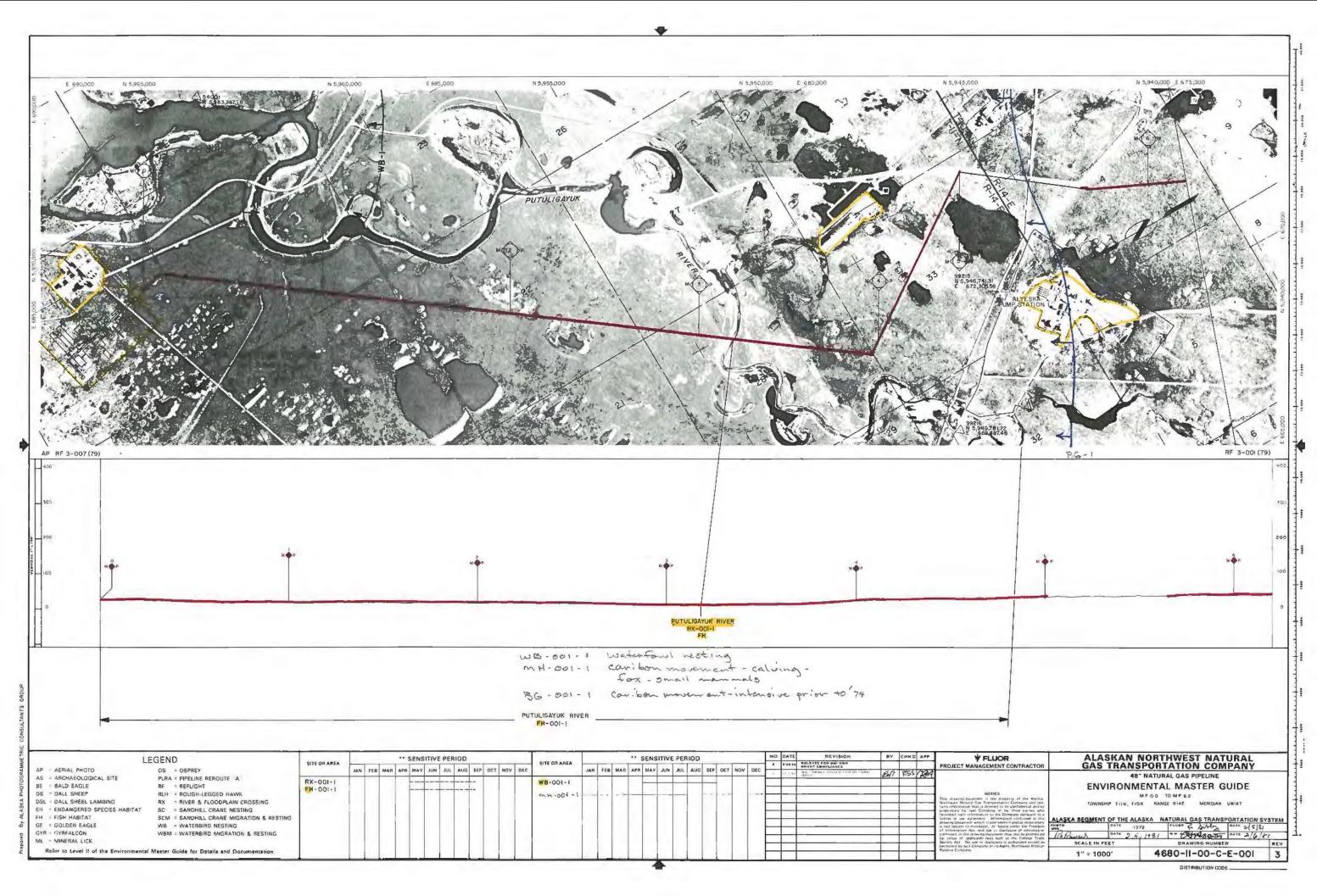


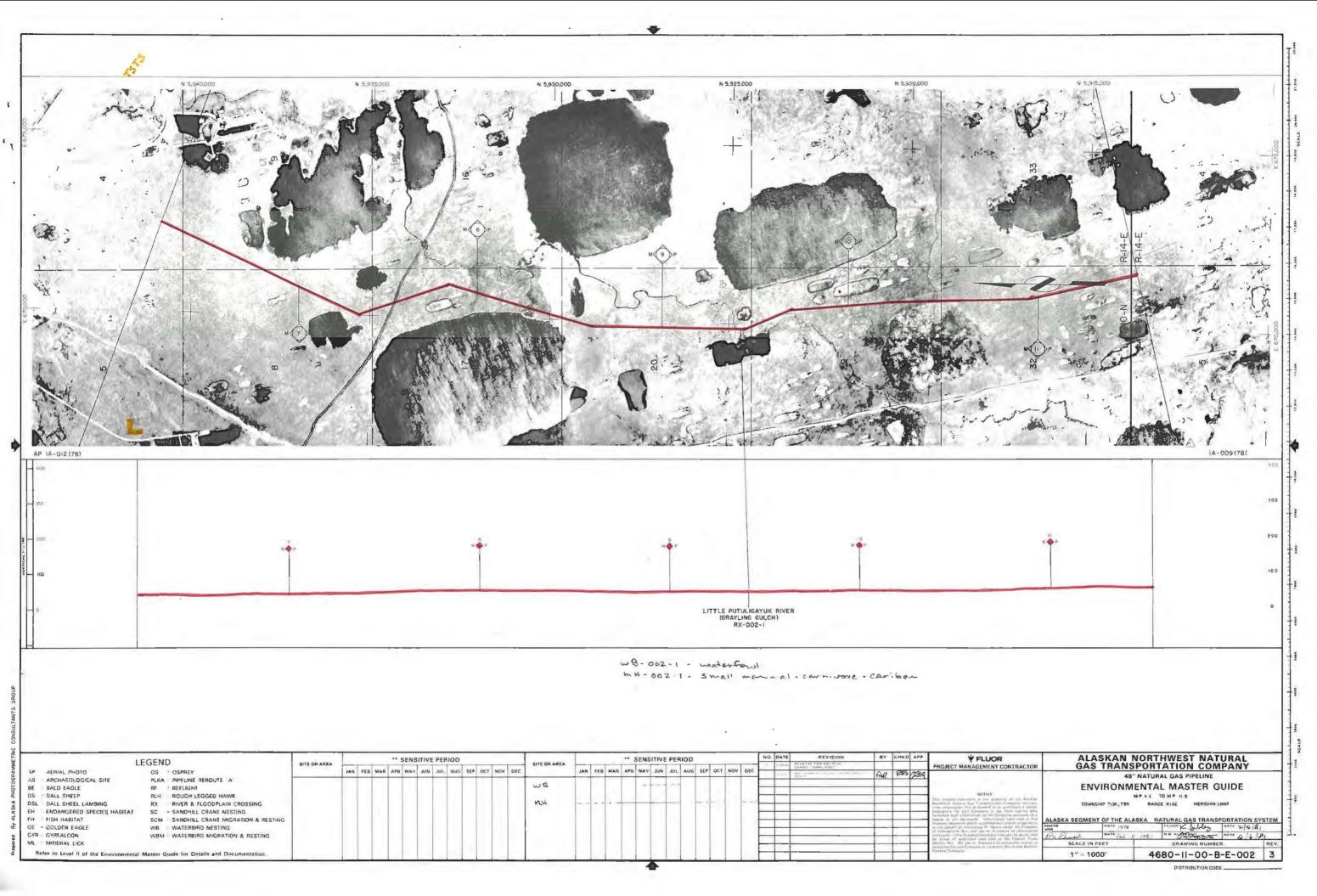
Legend: An explanatory list of the symbols used to note data entries.

Revision Block: Shows each revision by number, the date it was made, and the purpose of the revision.

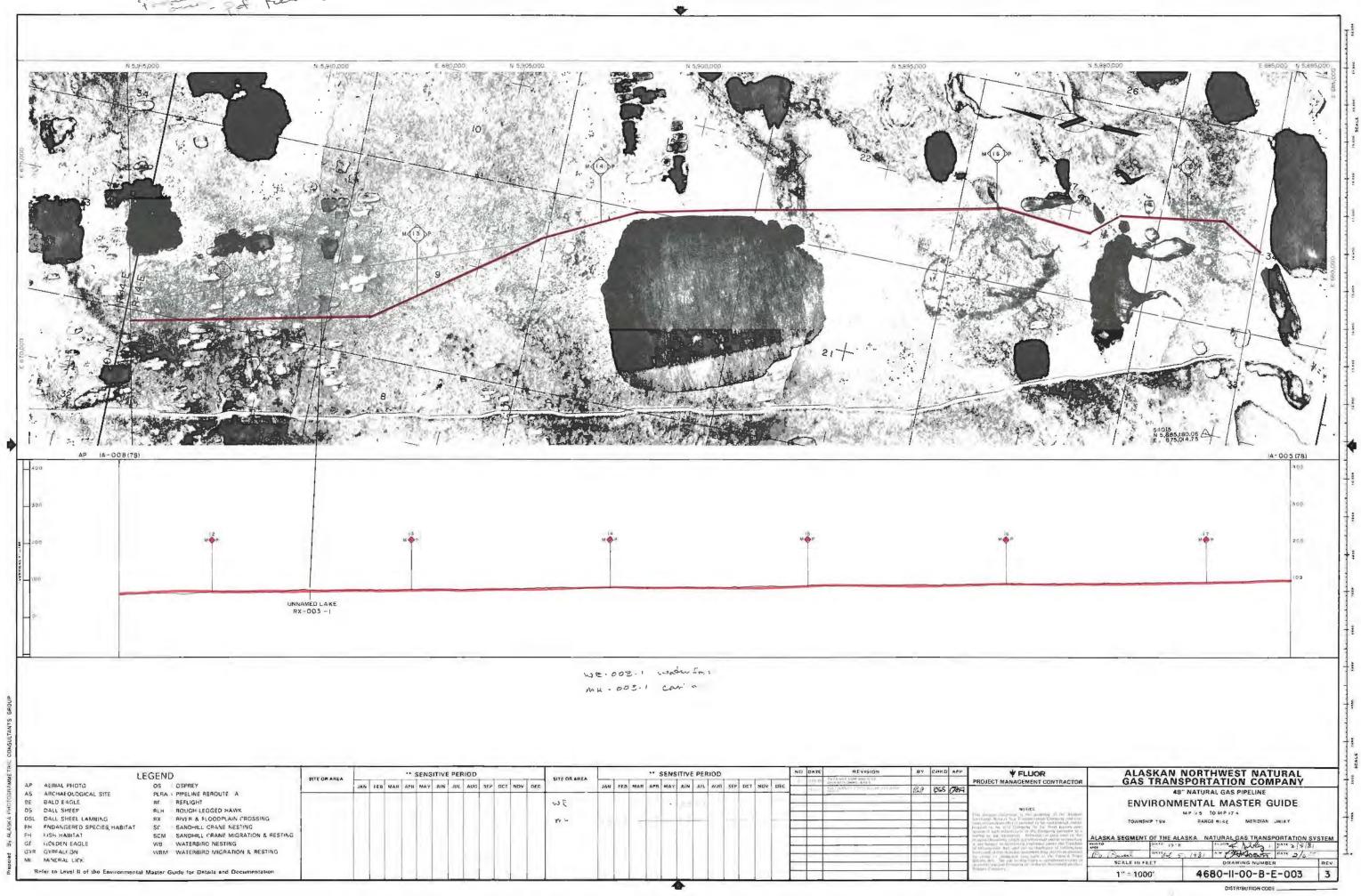
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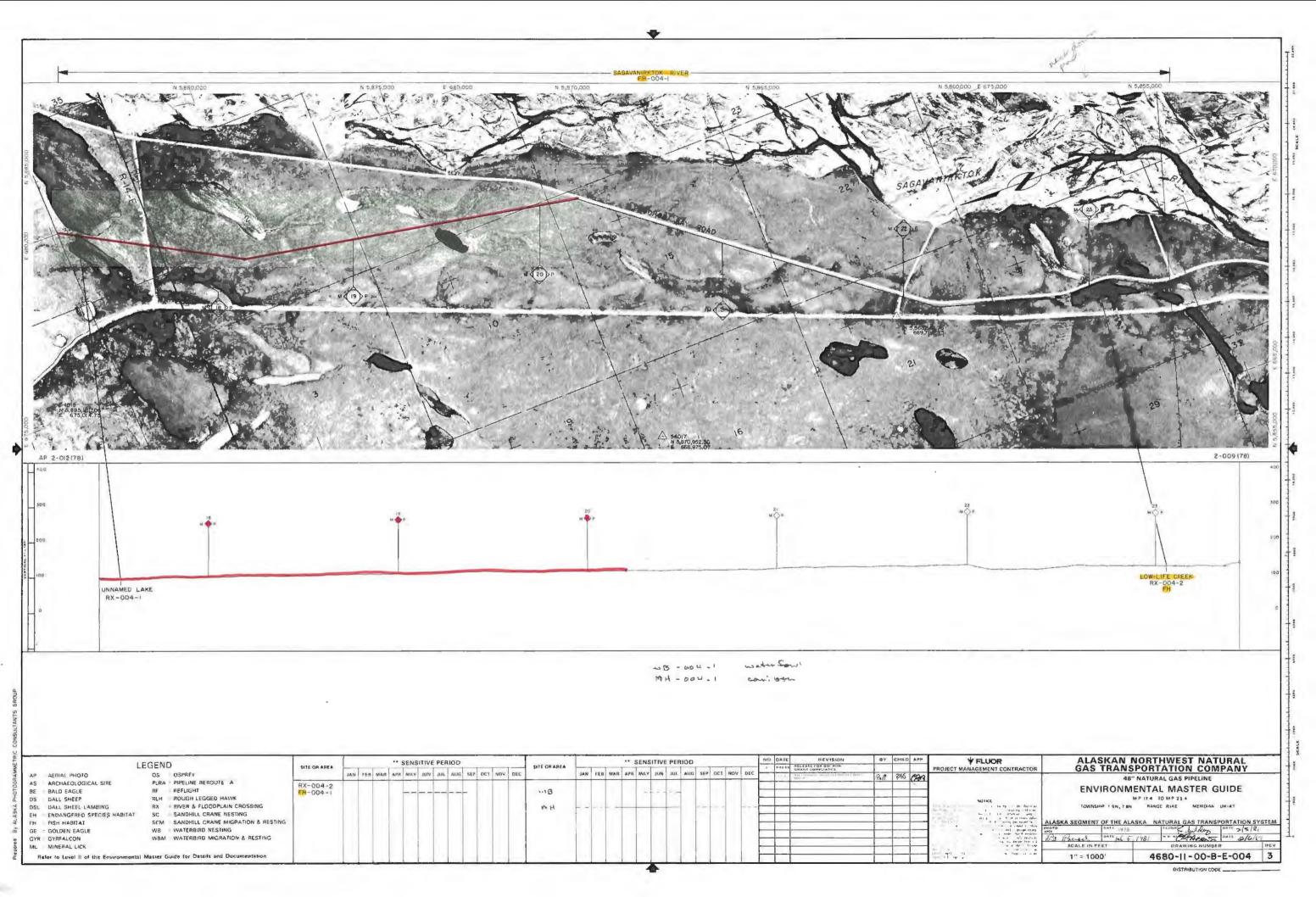
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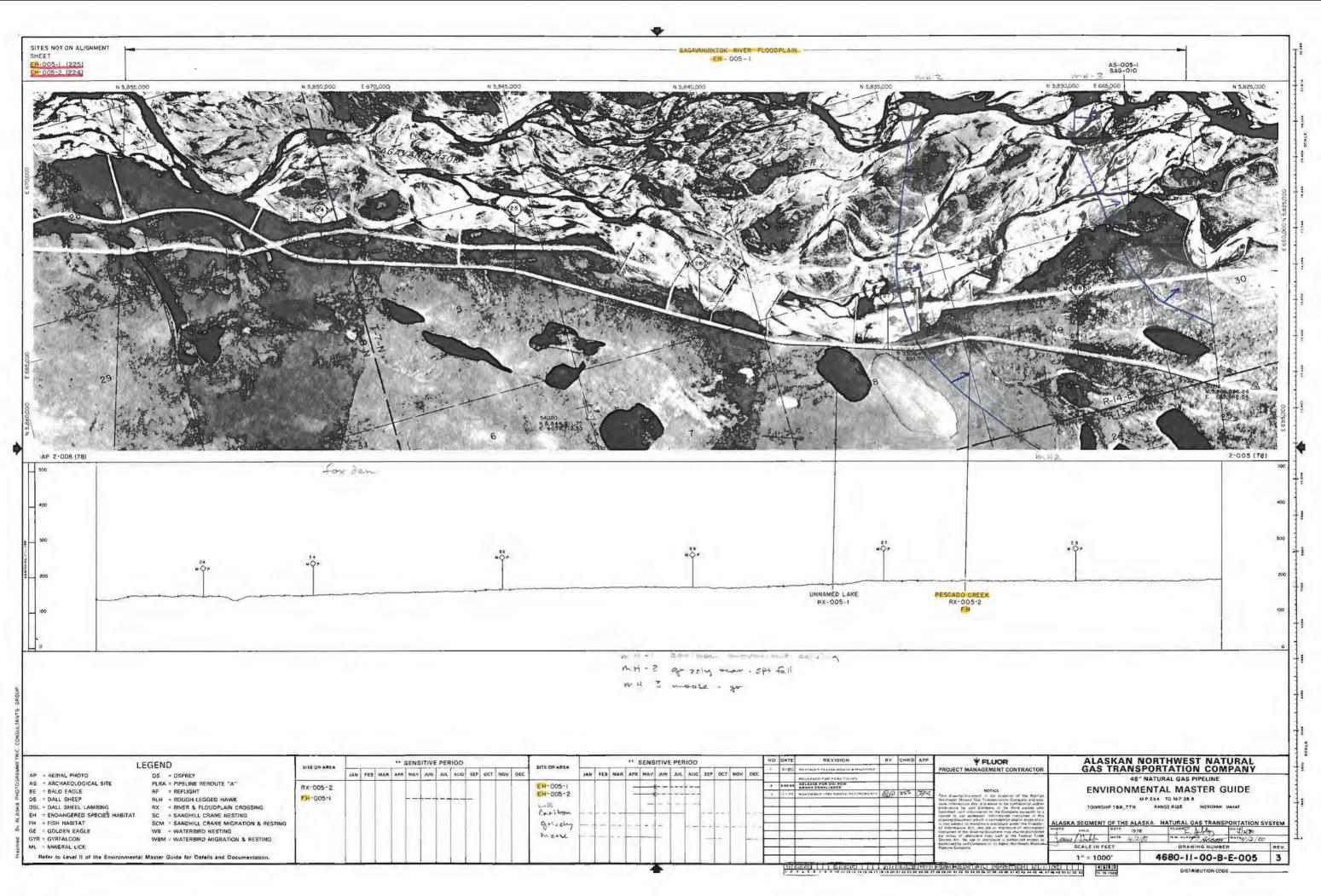


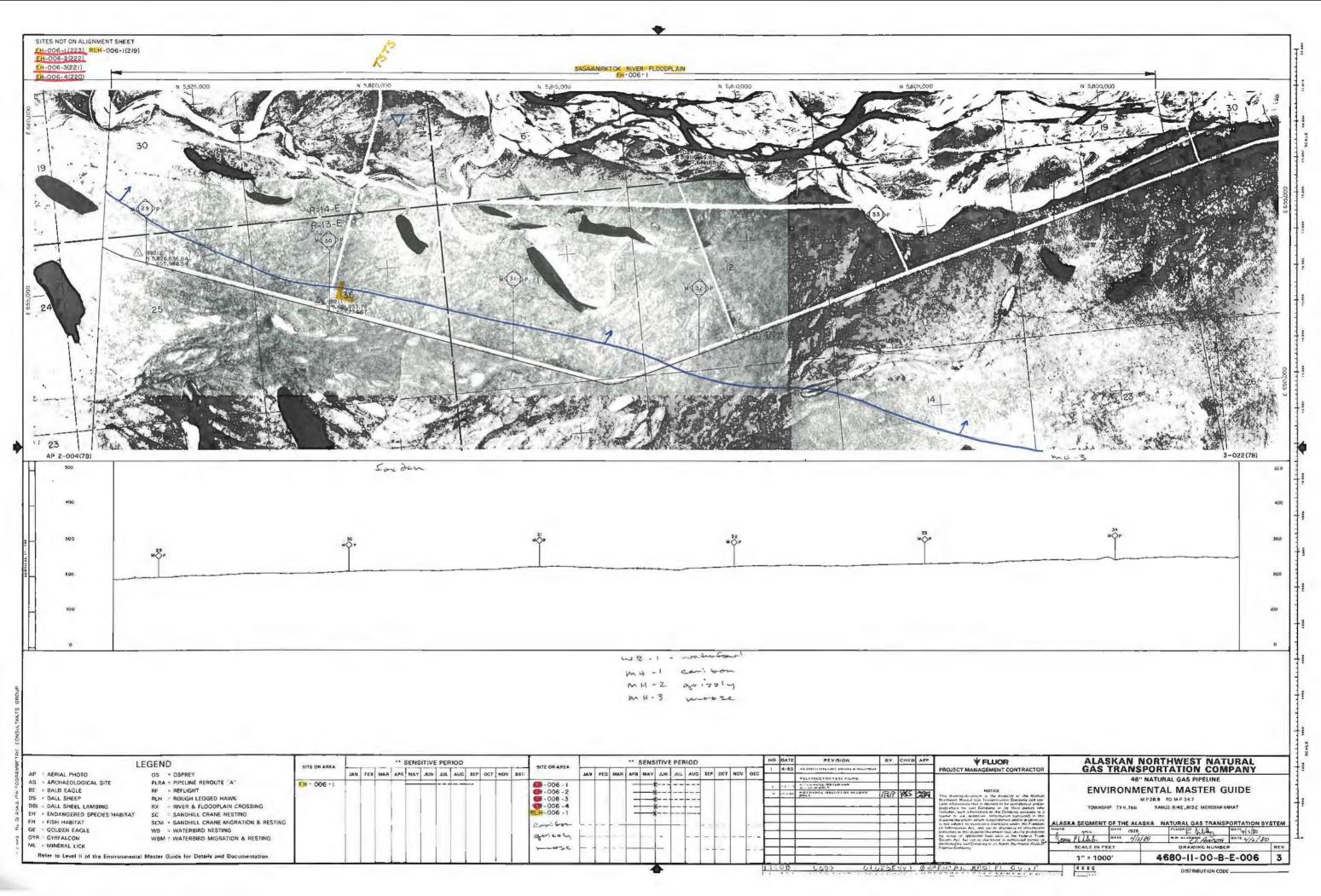


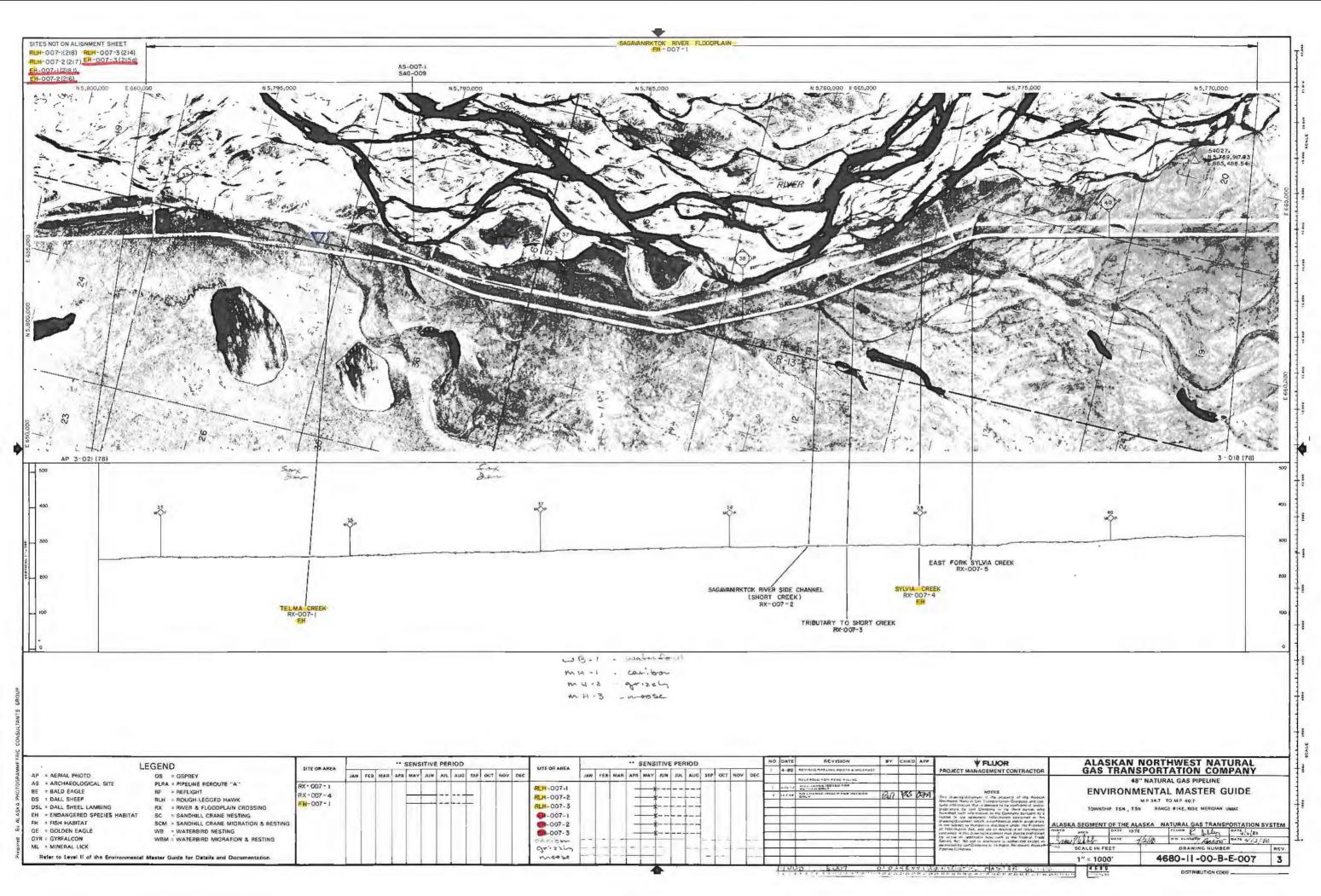
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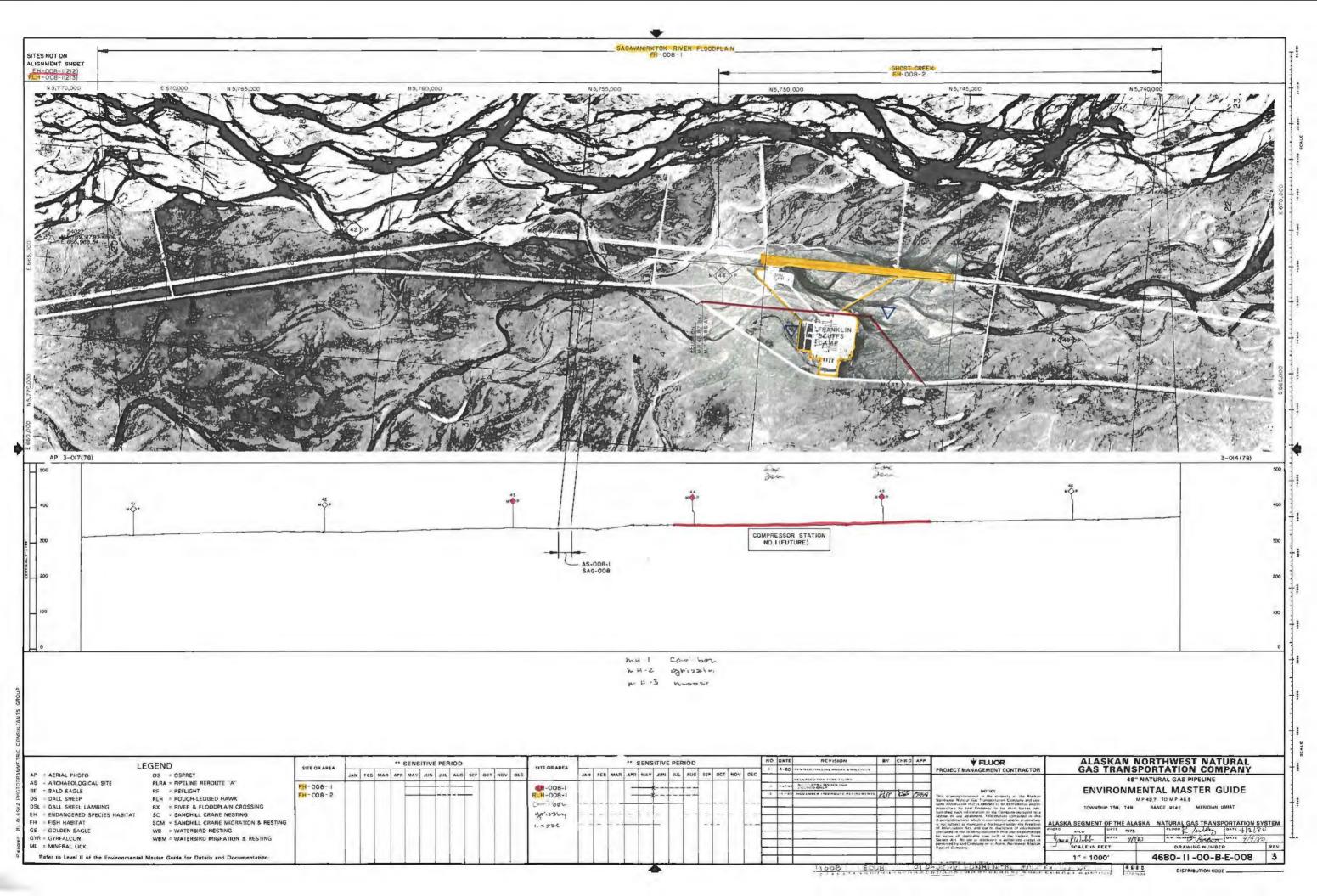


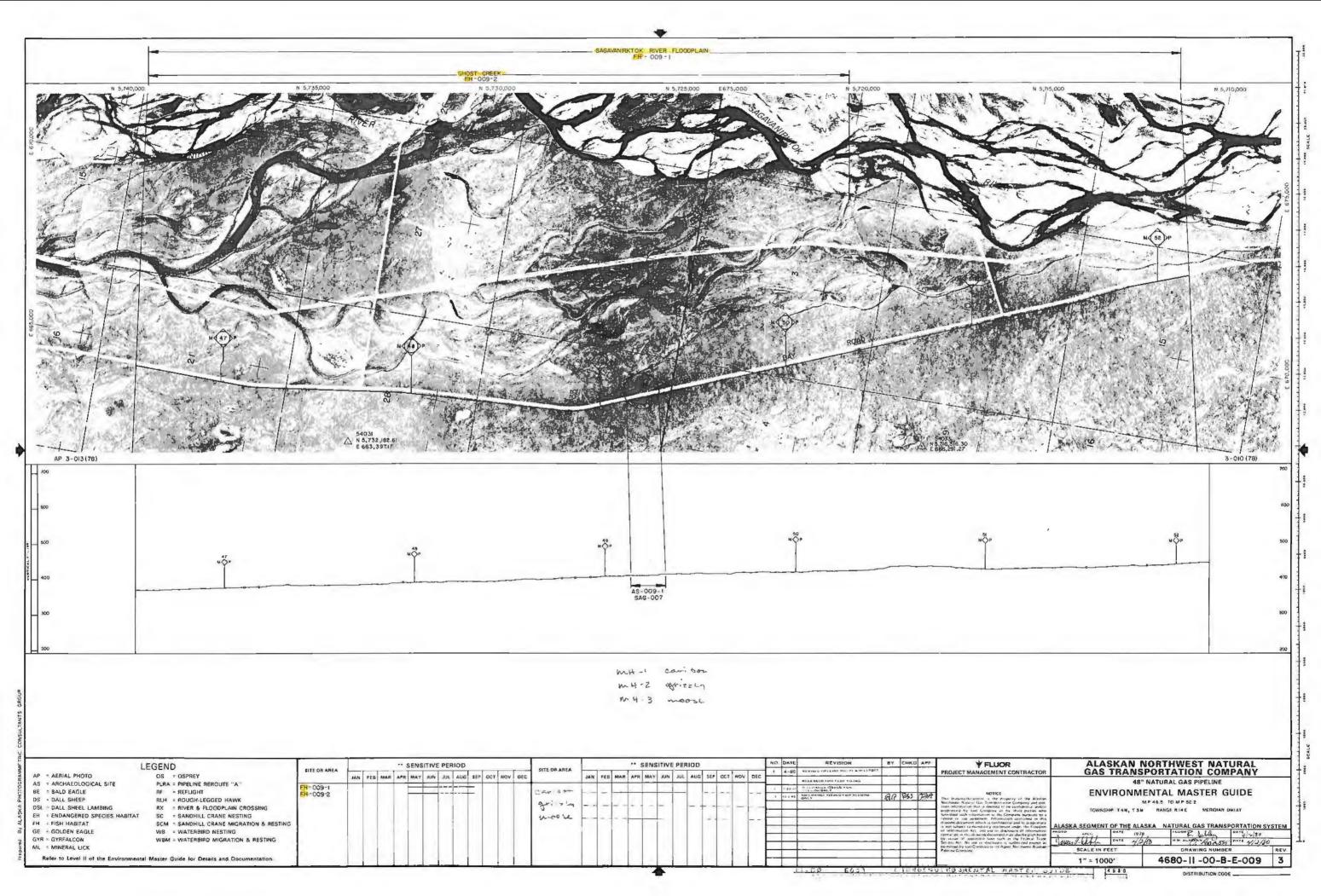


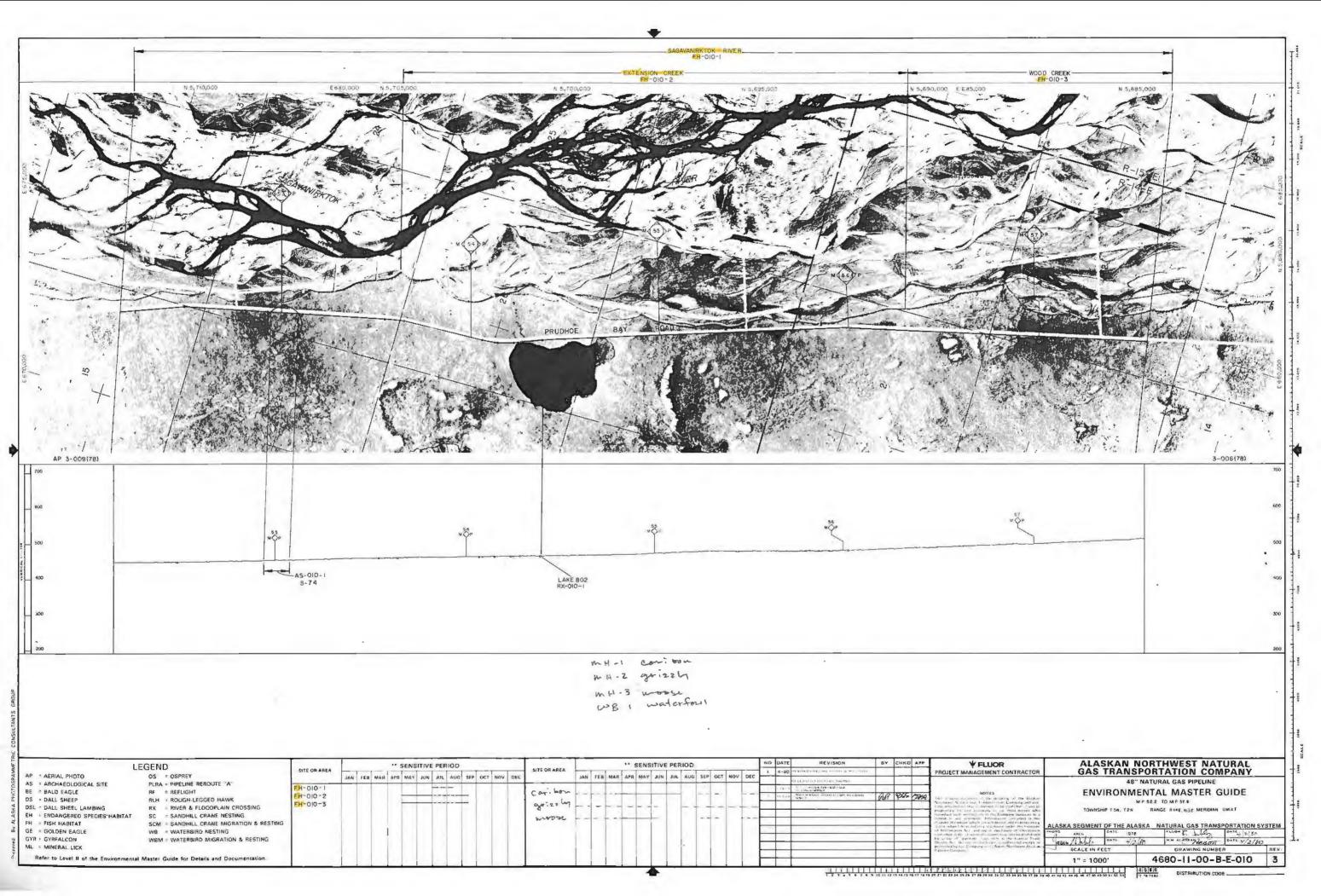


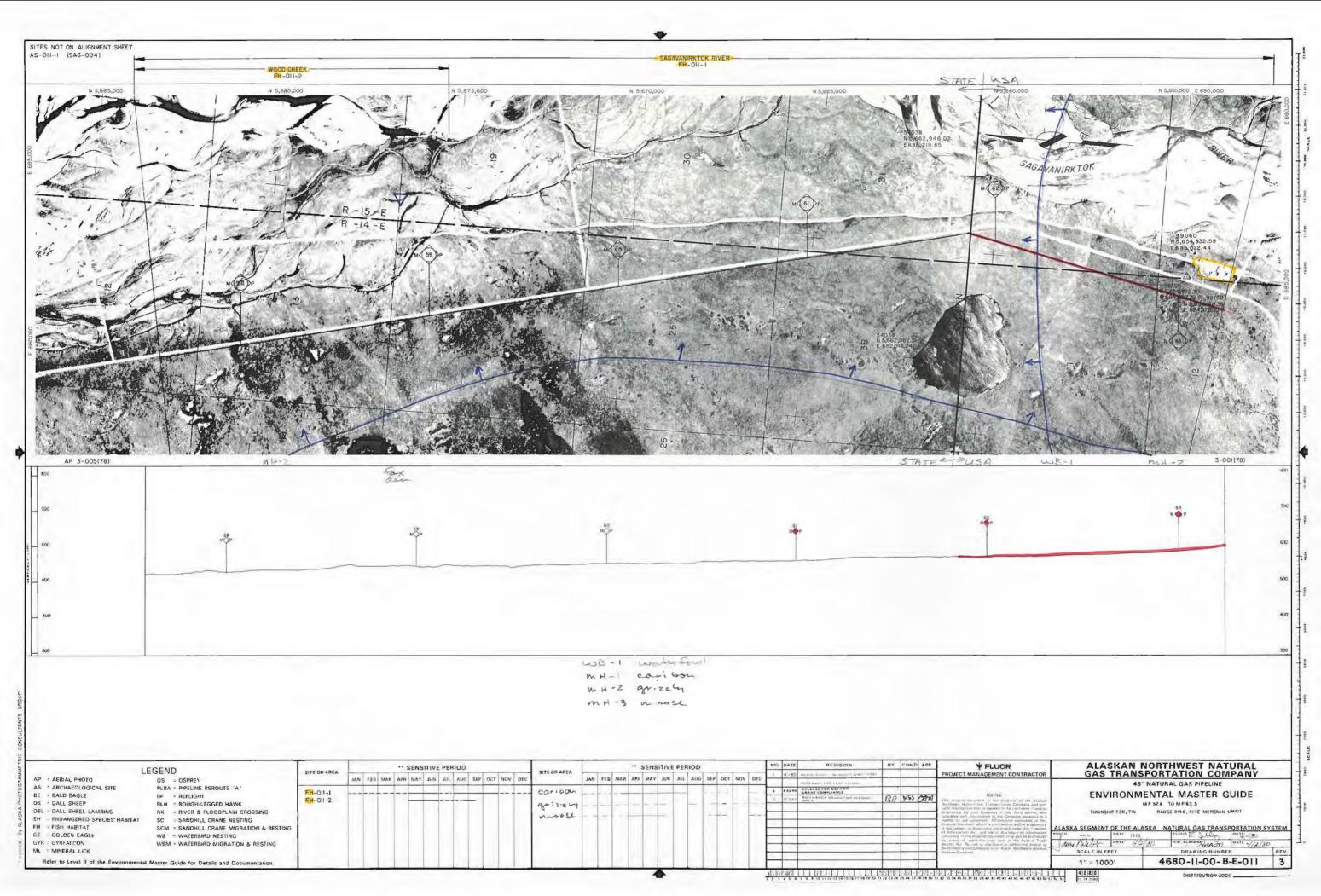


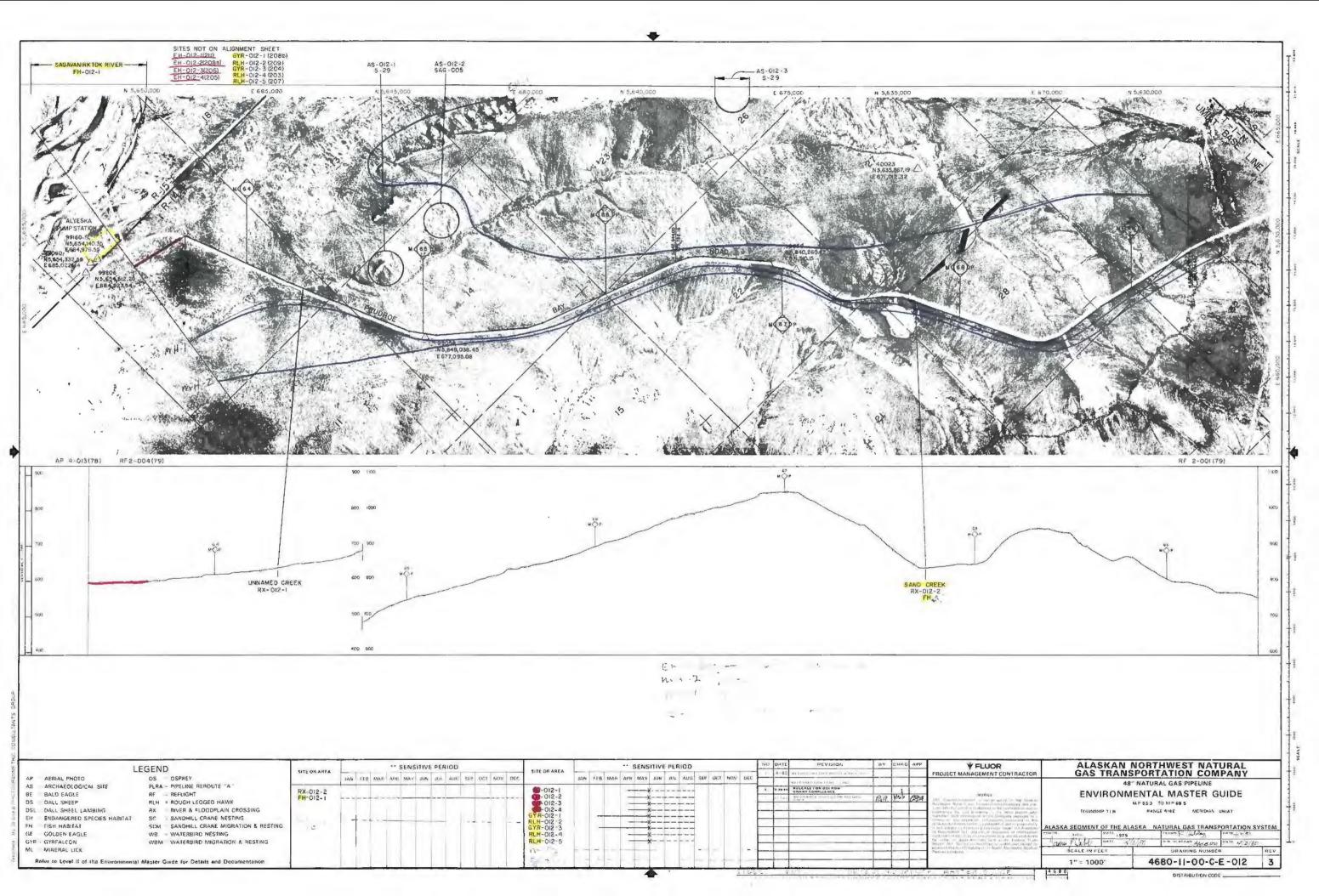


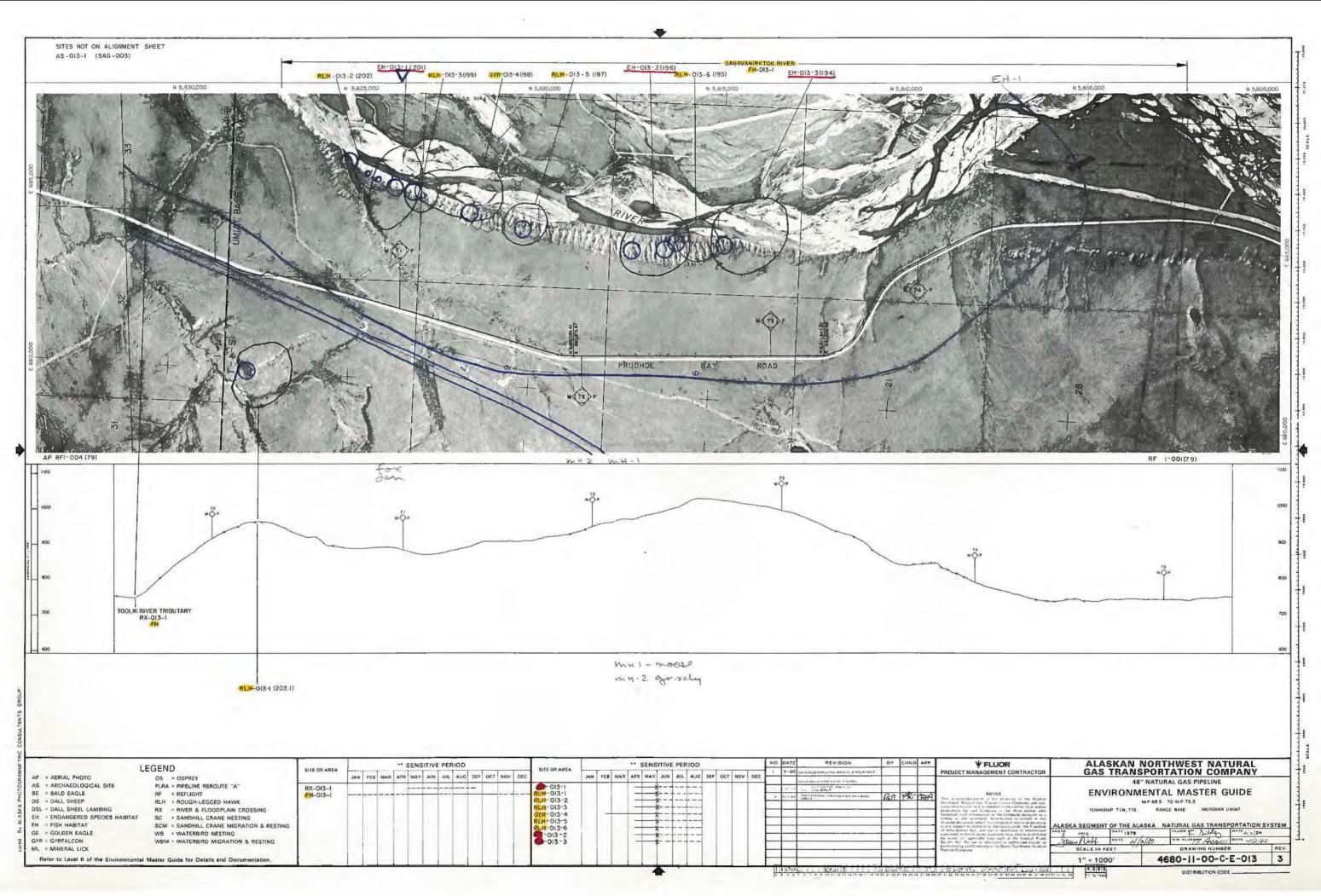


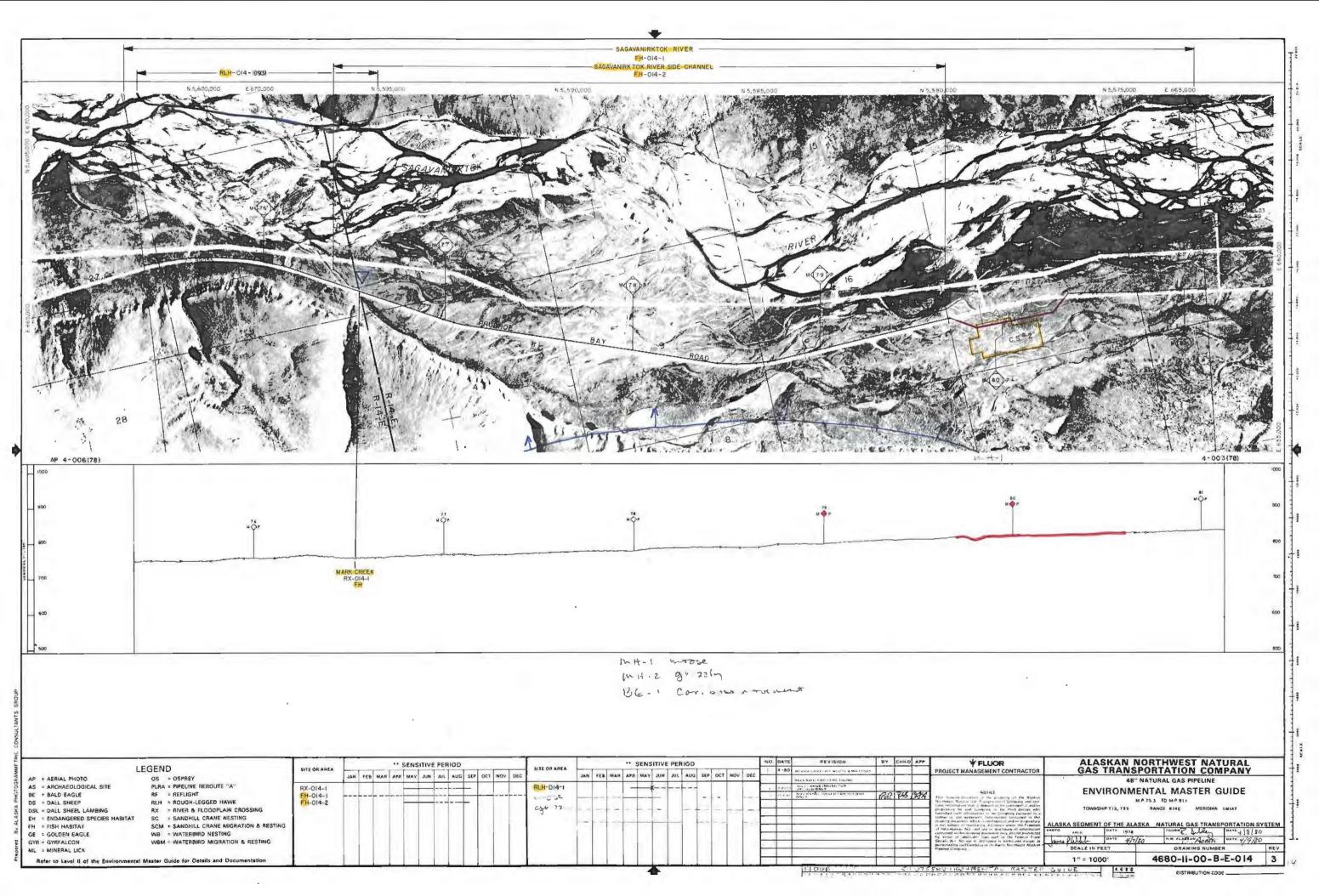


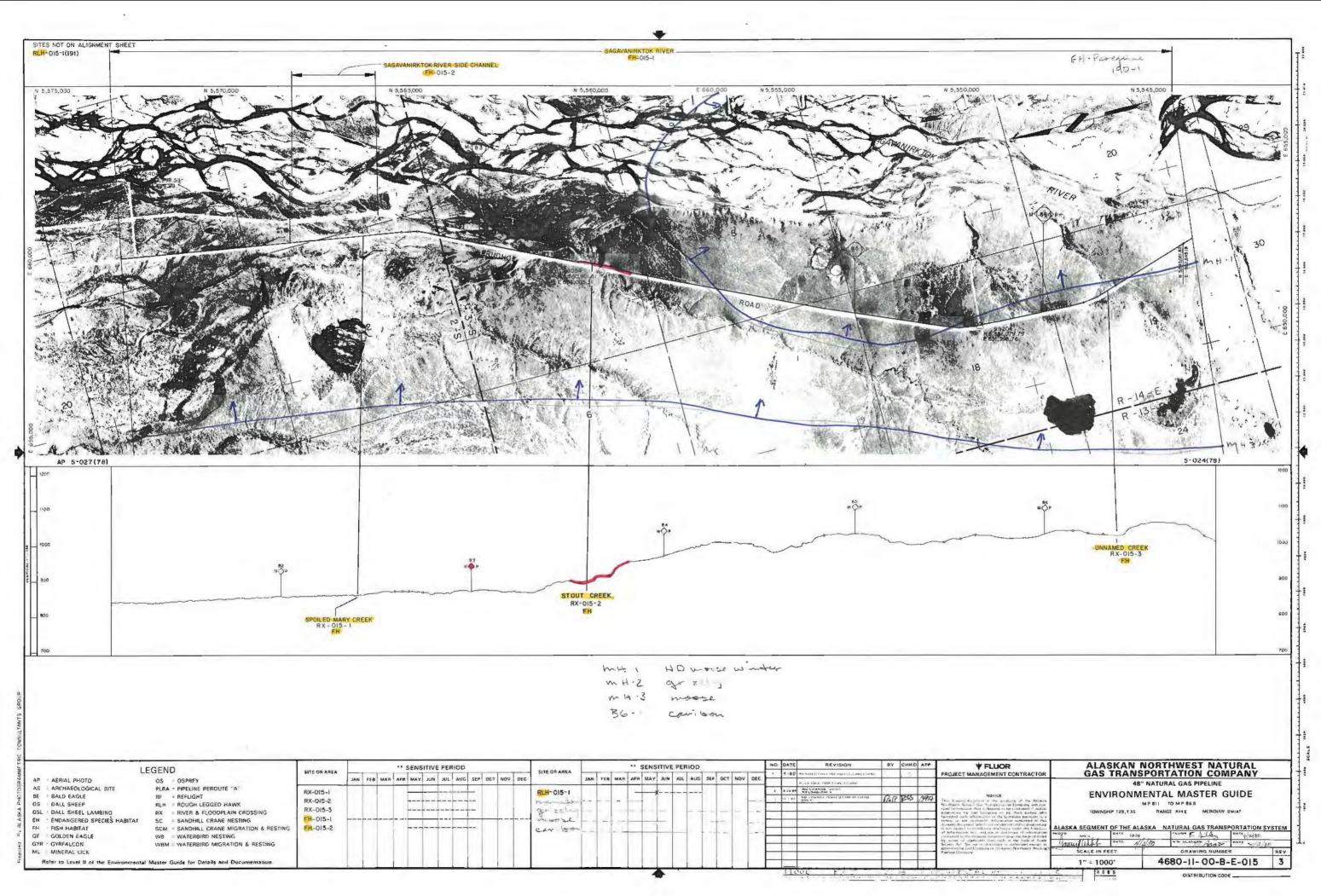


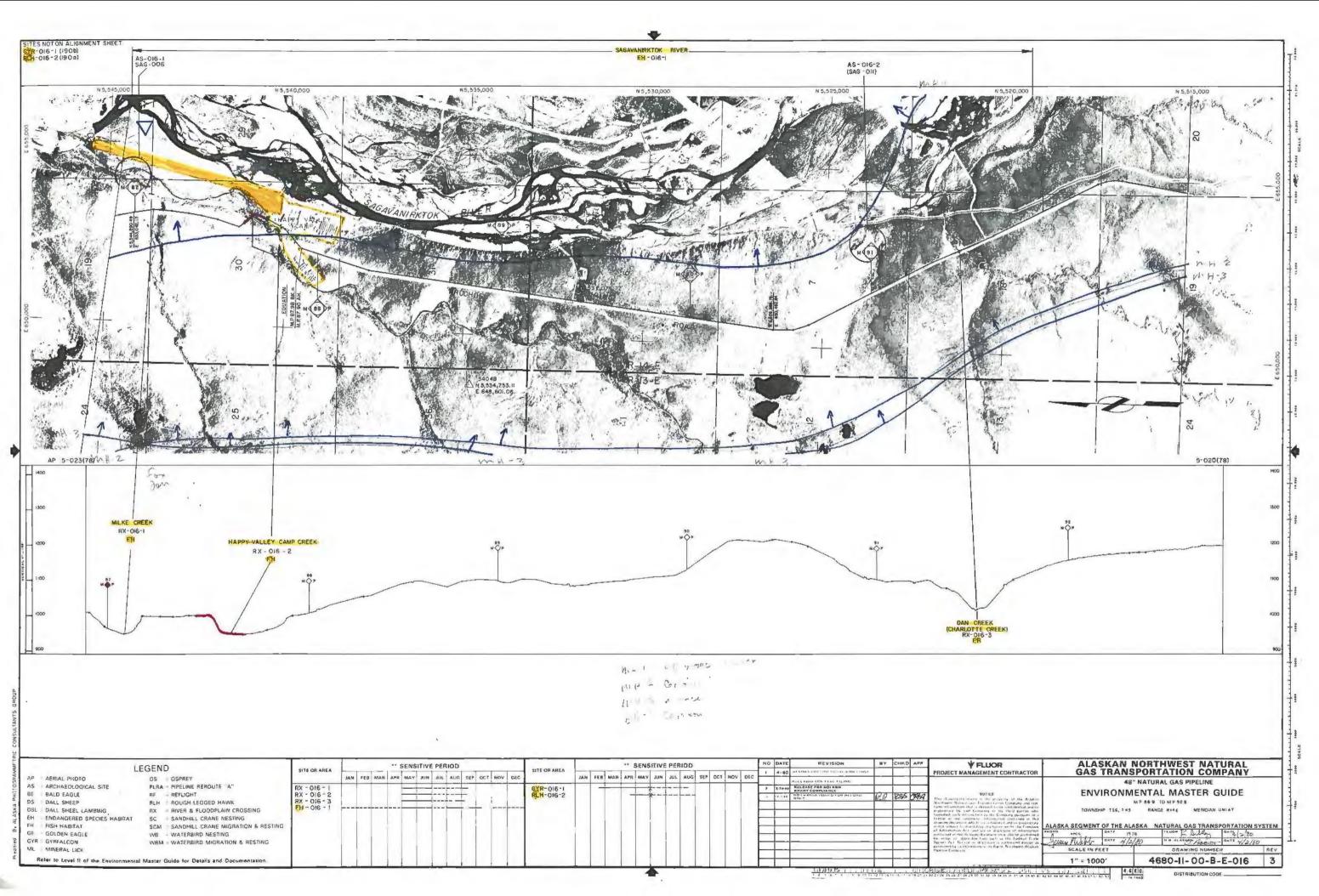


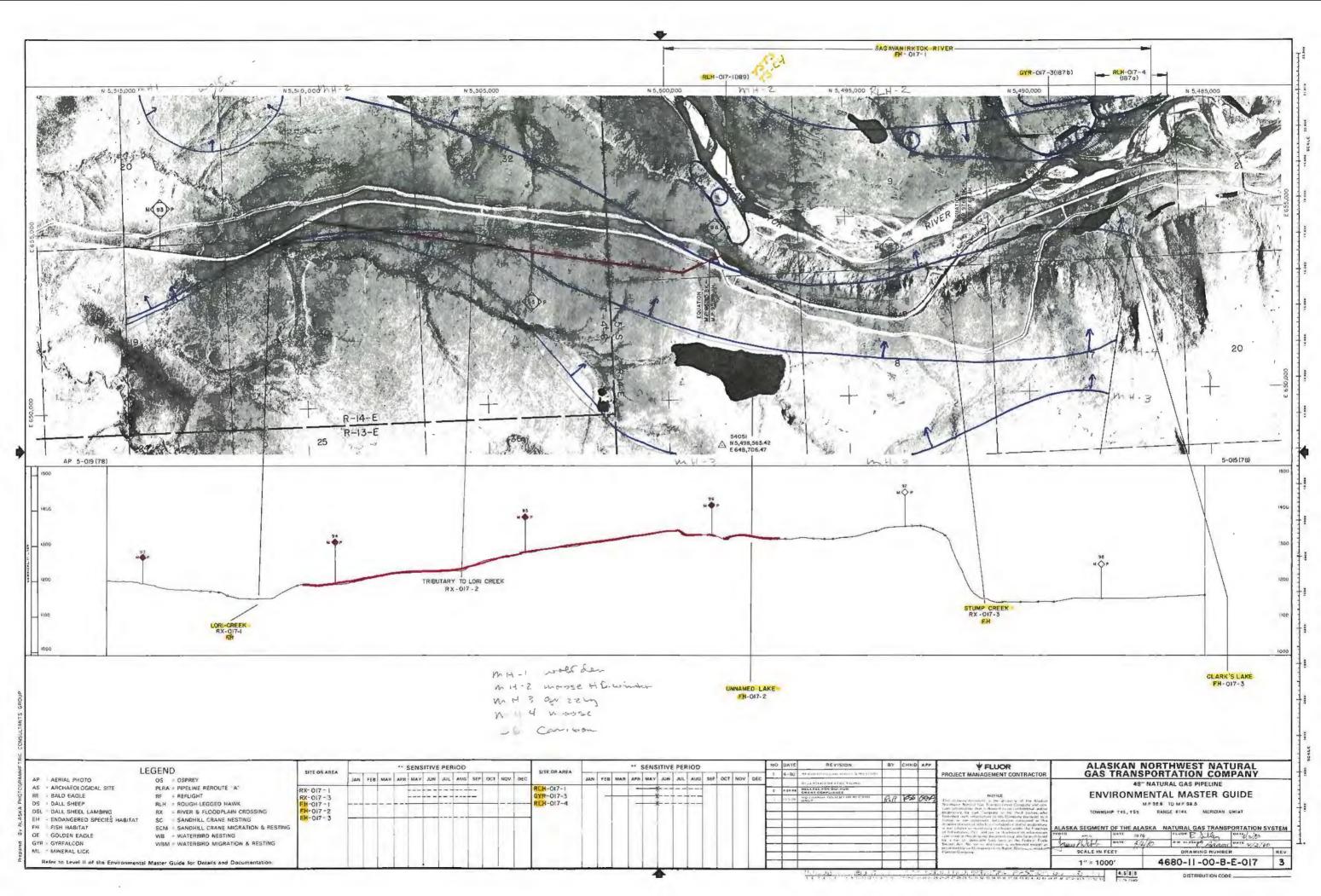


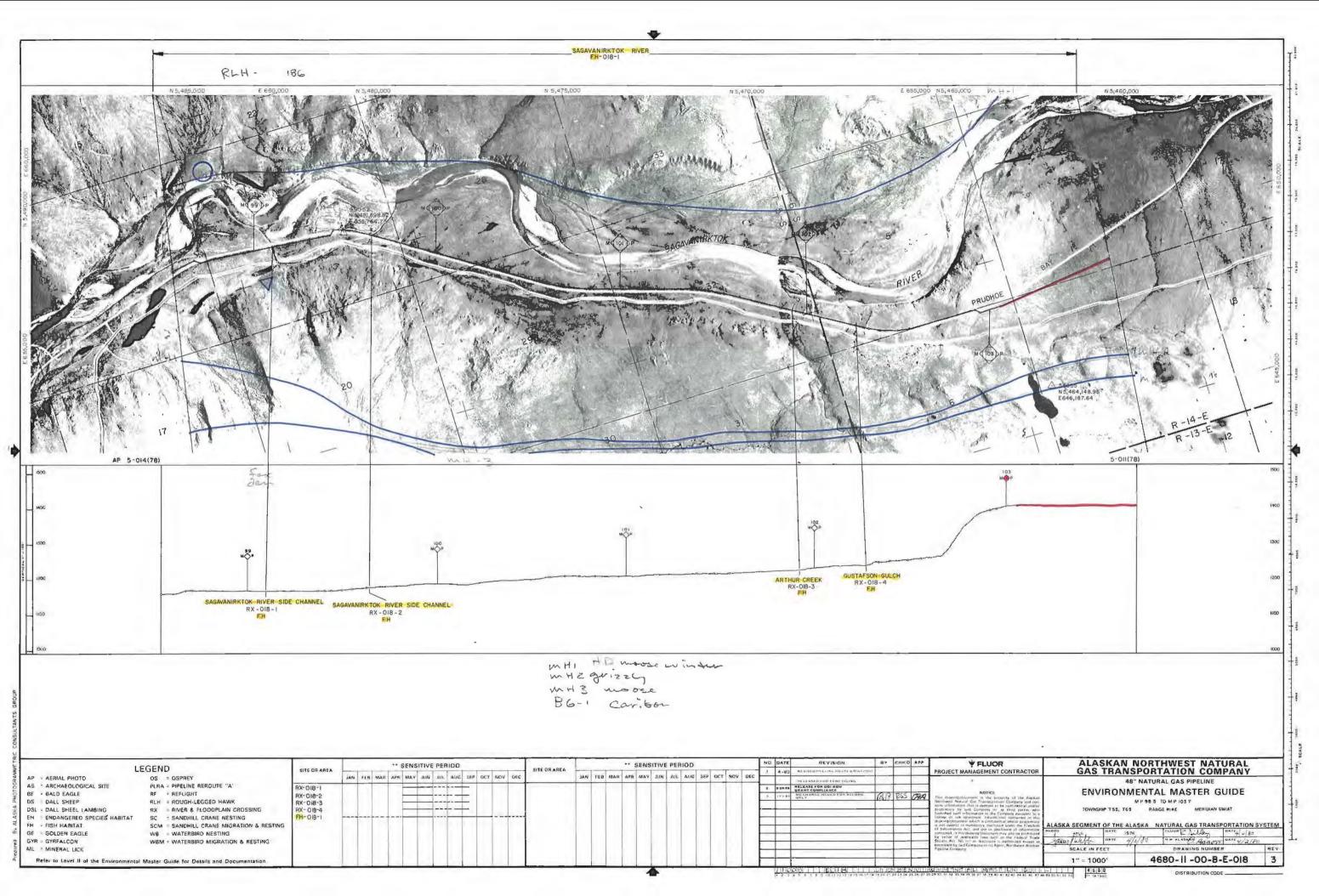


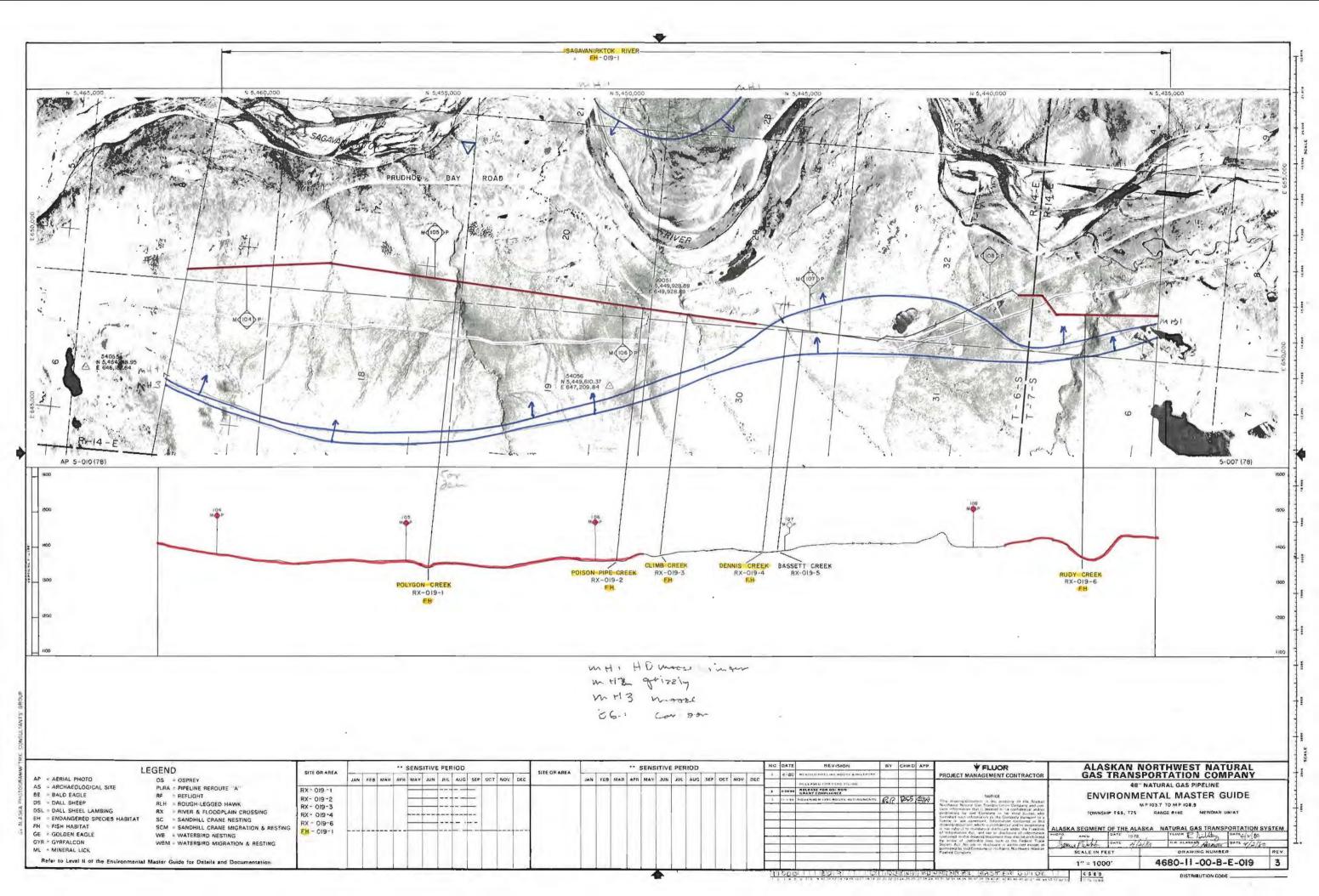


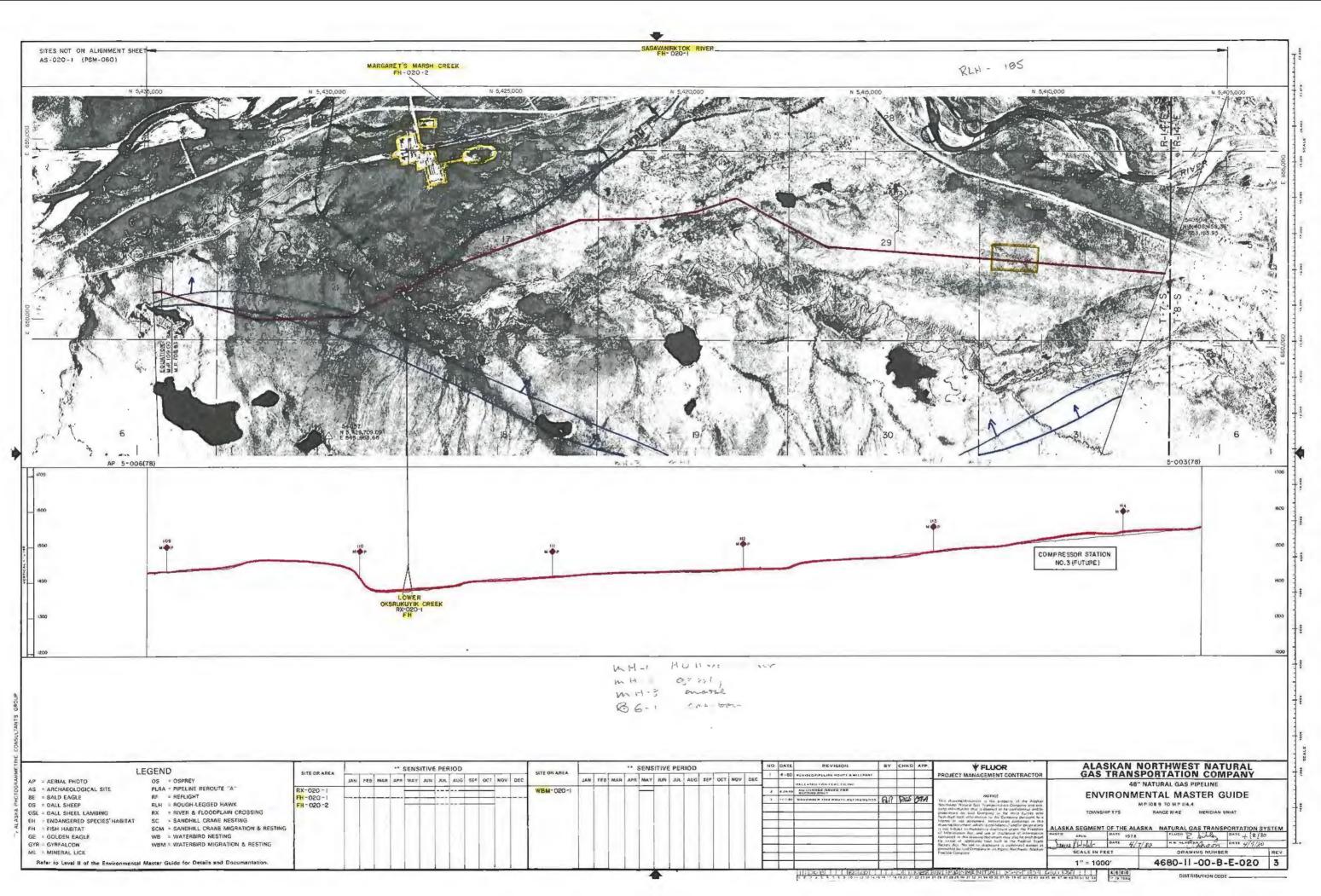


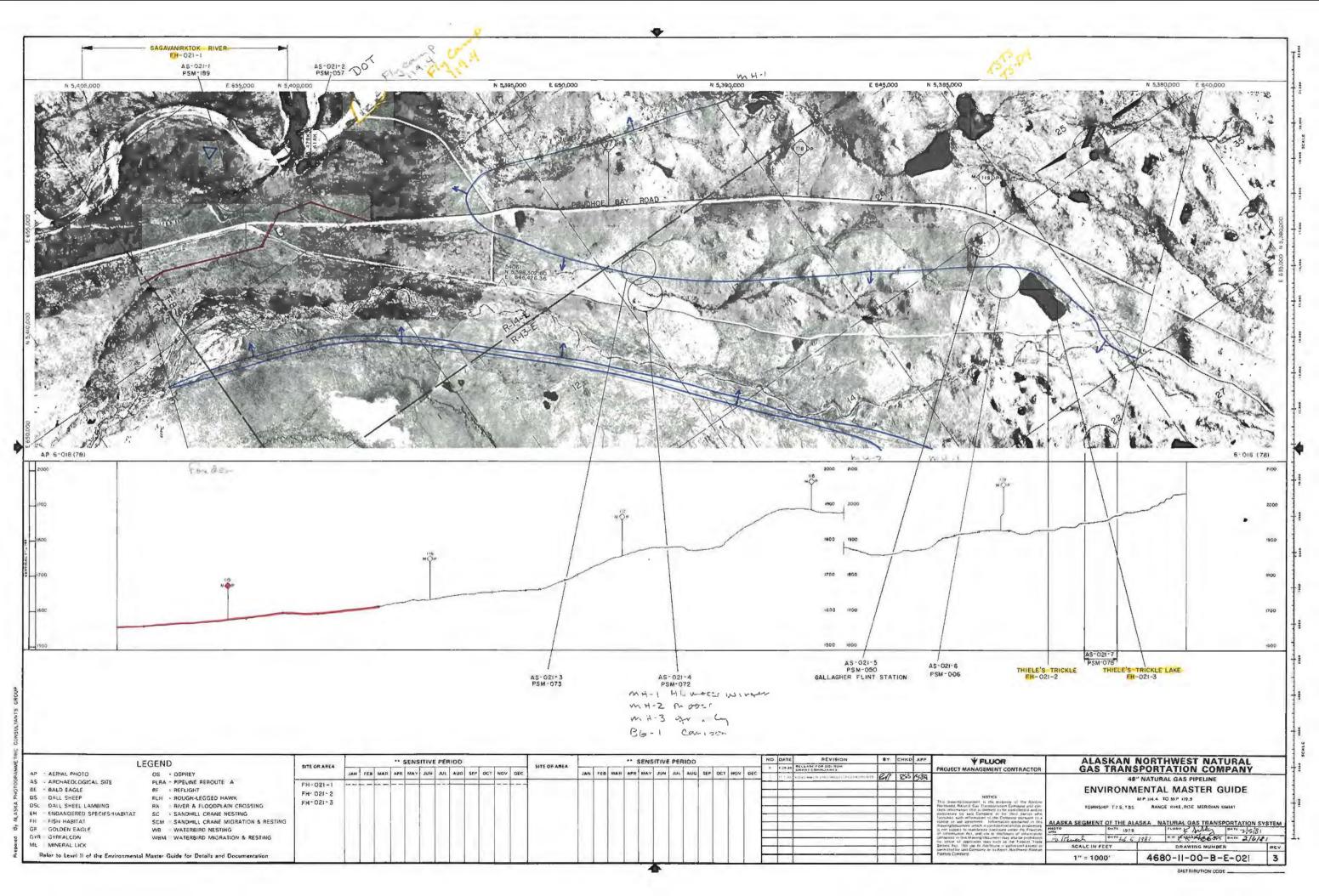


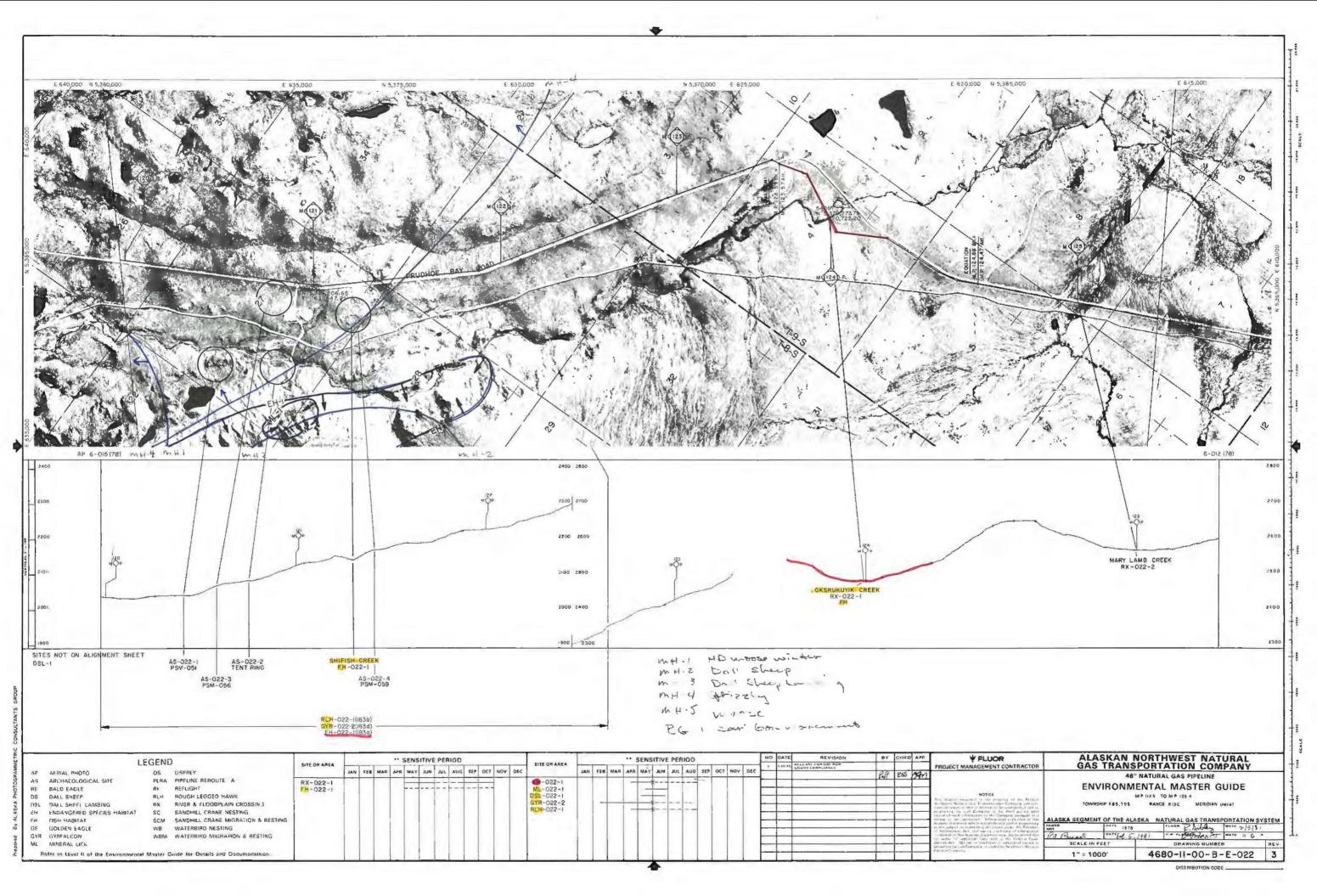


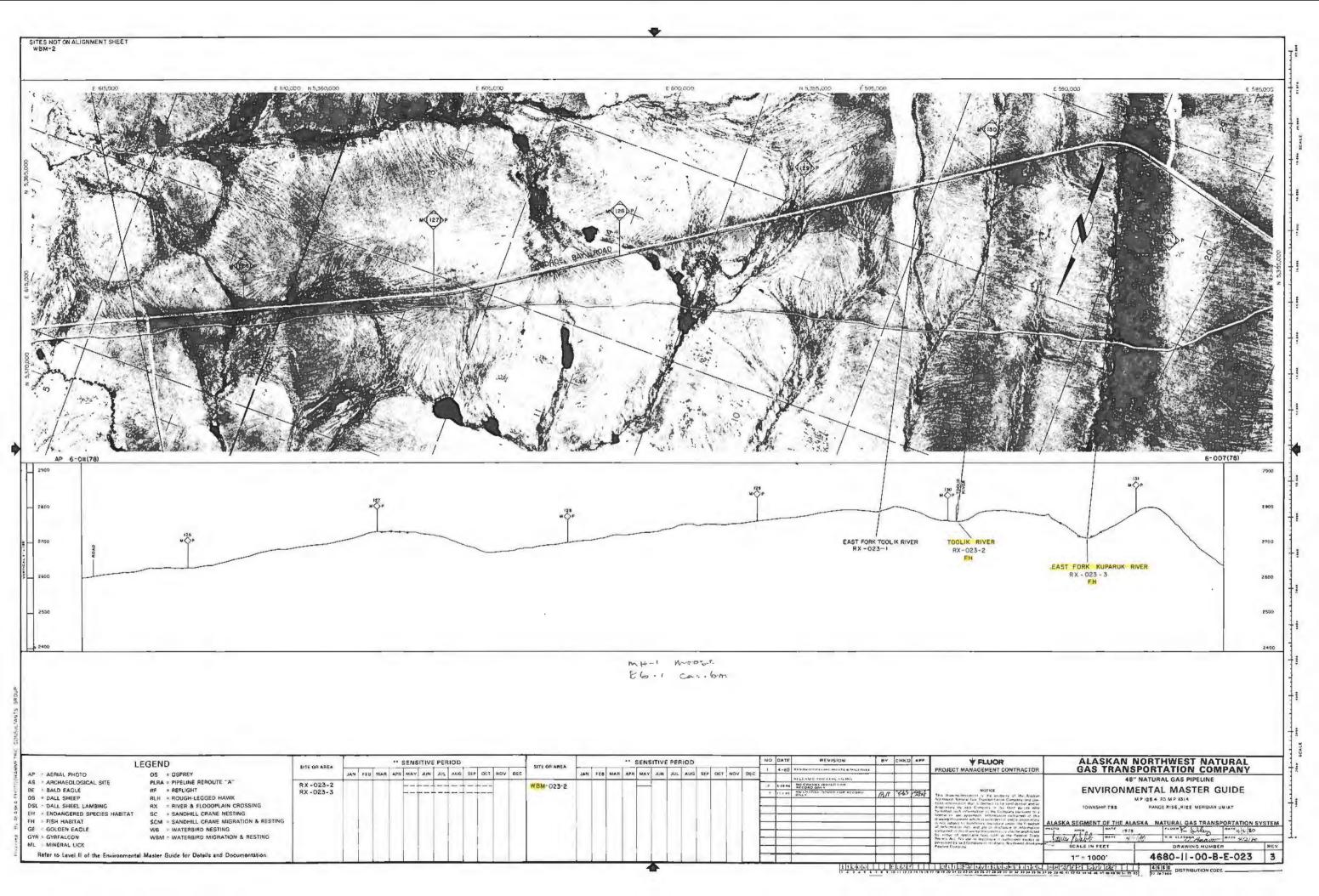


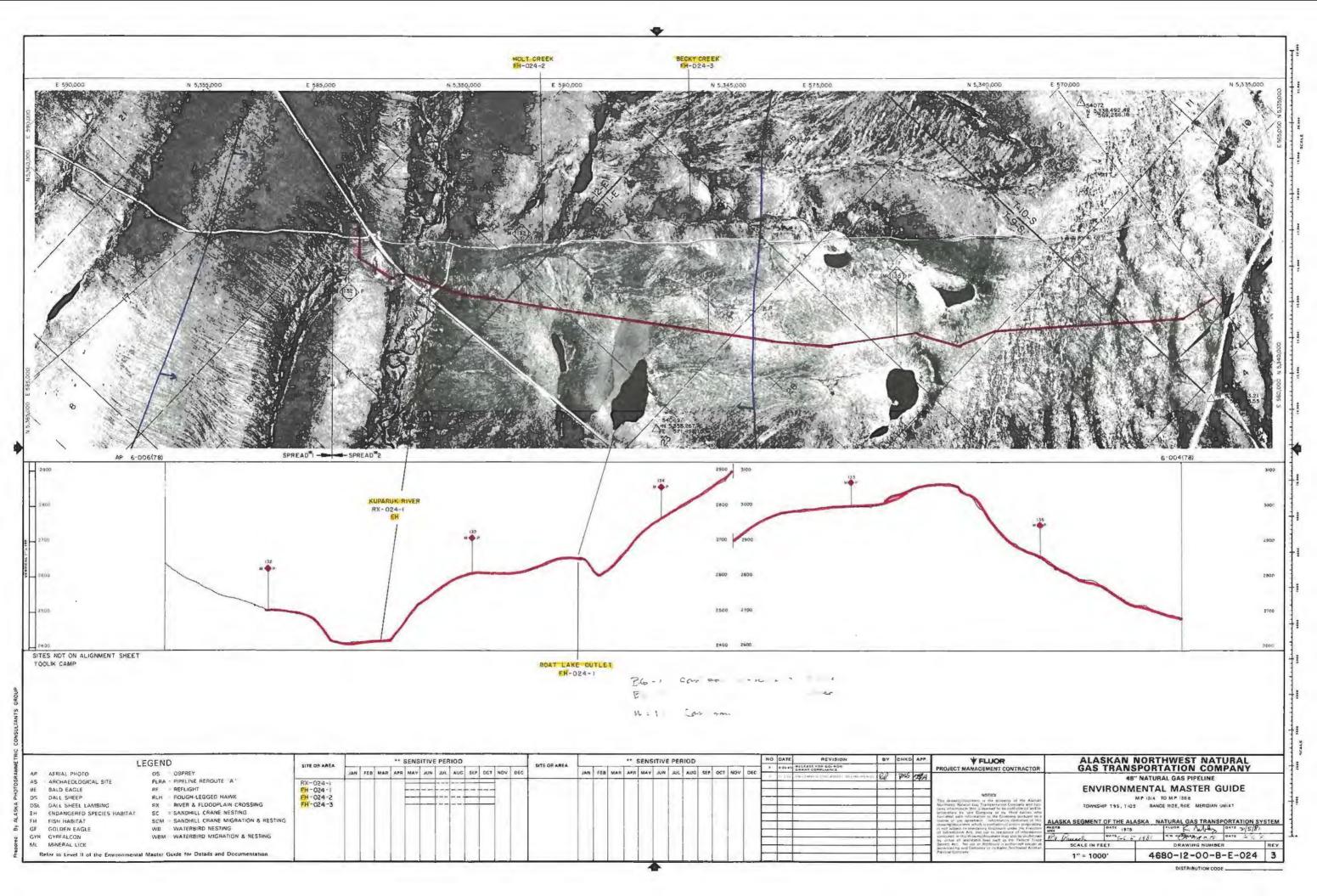


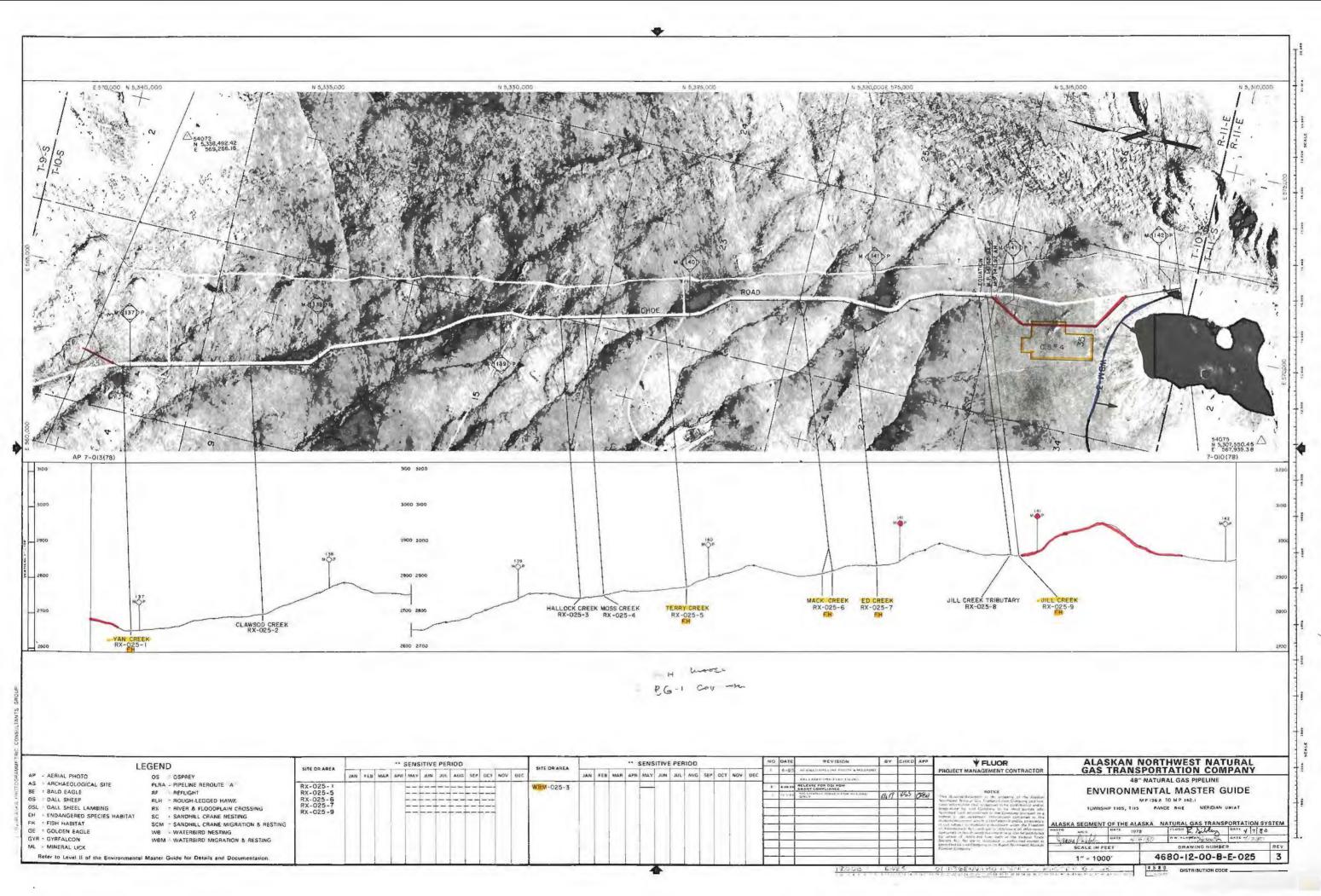


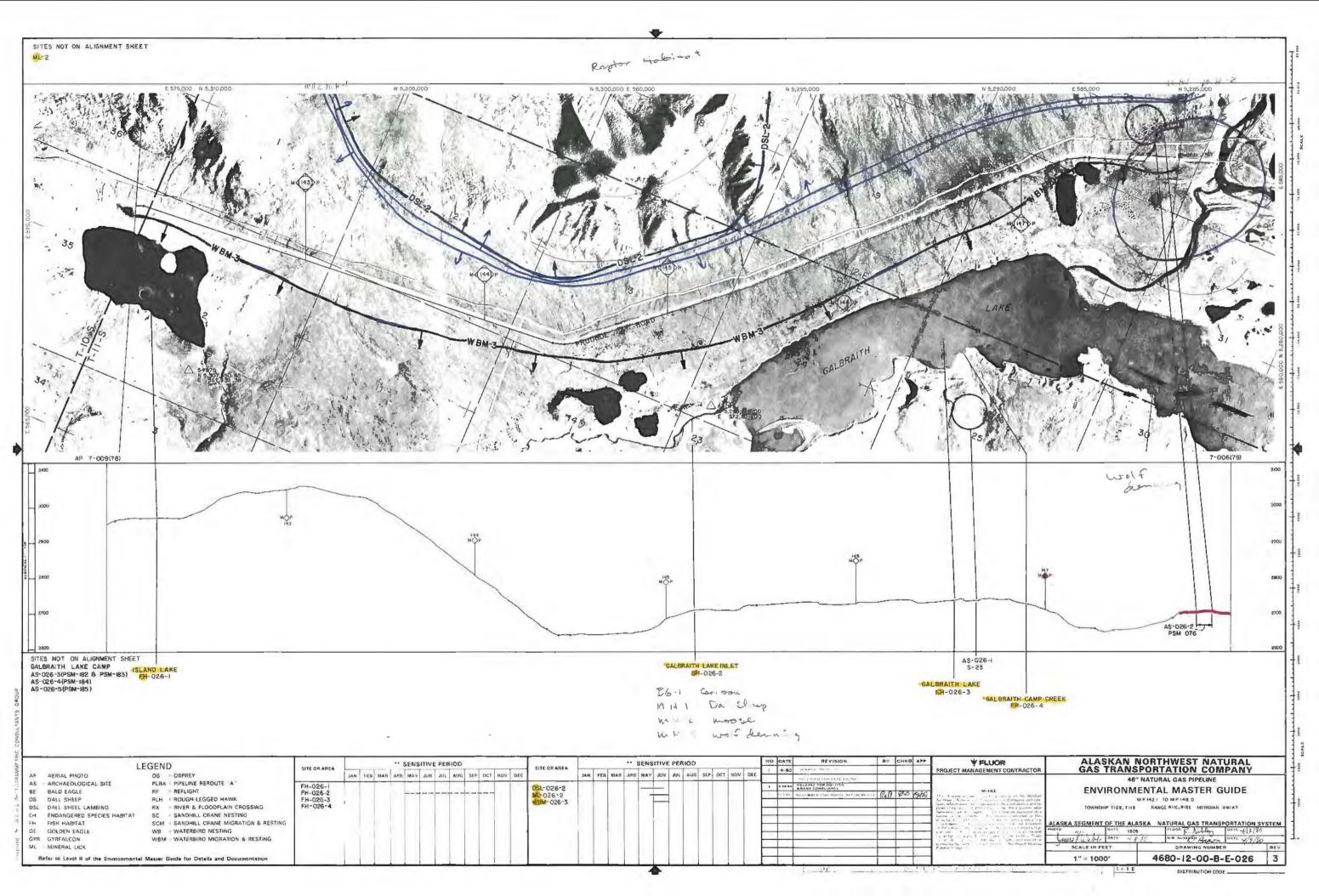


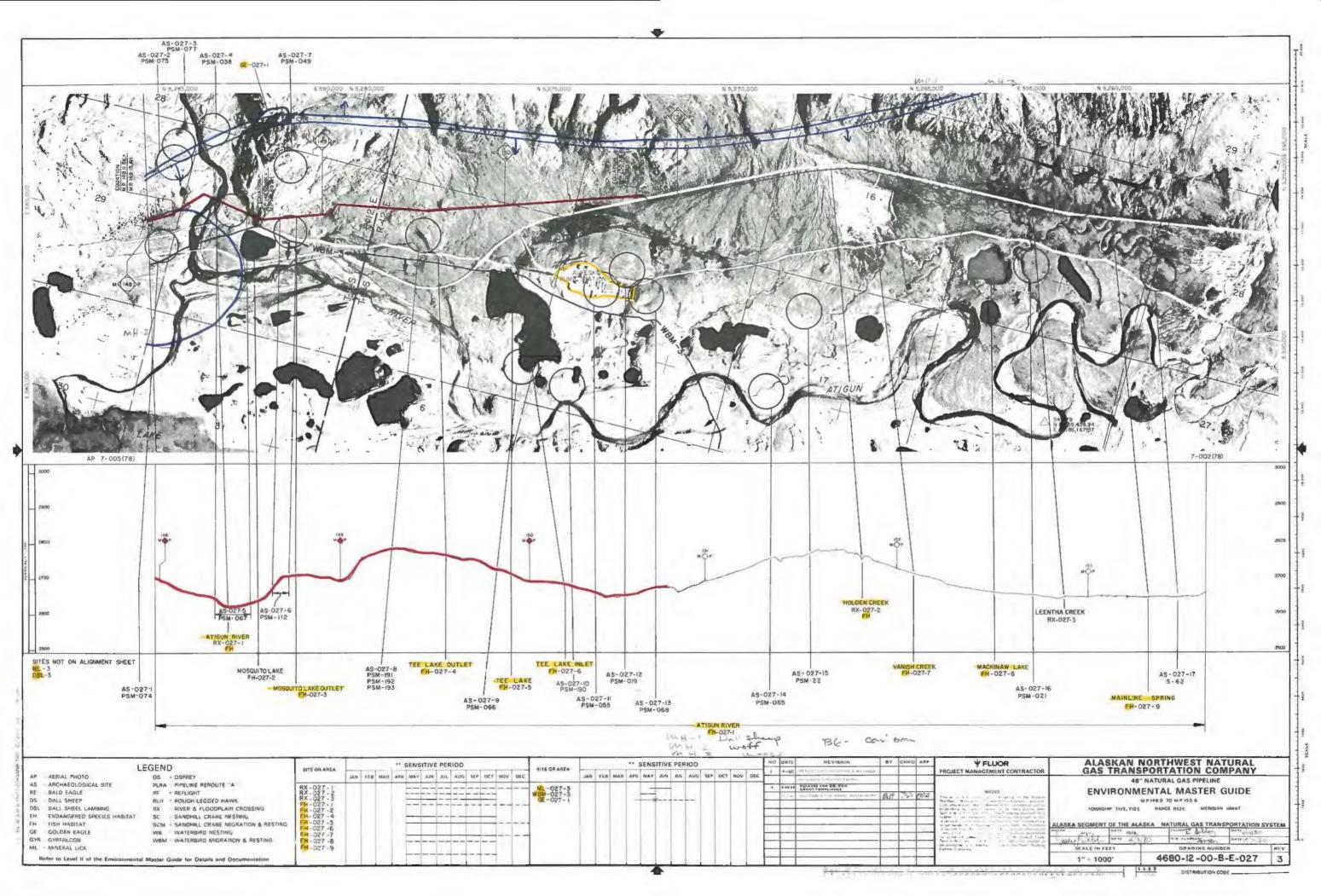


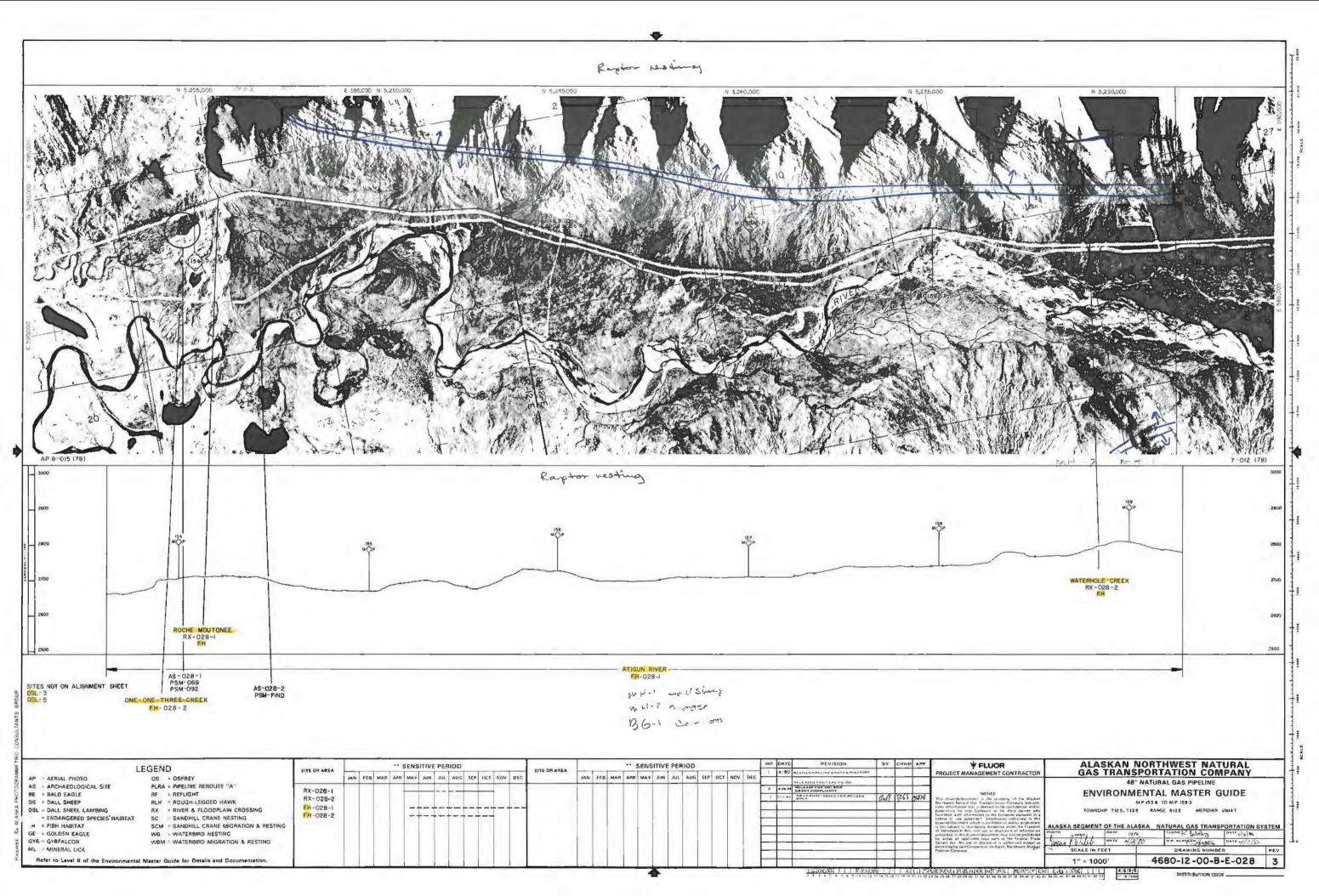


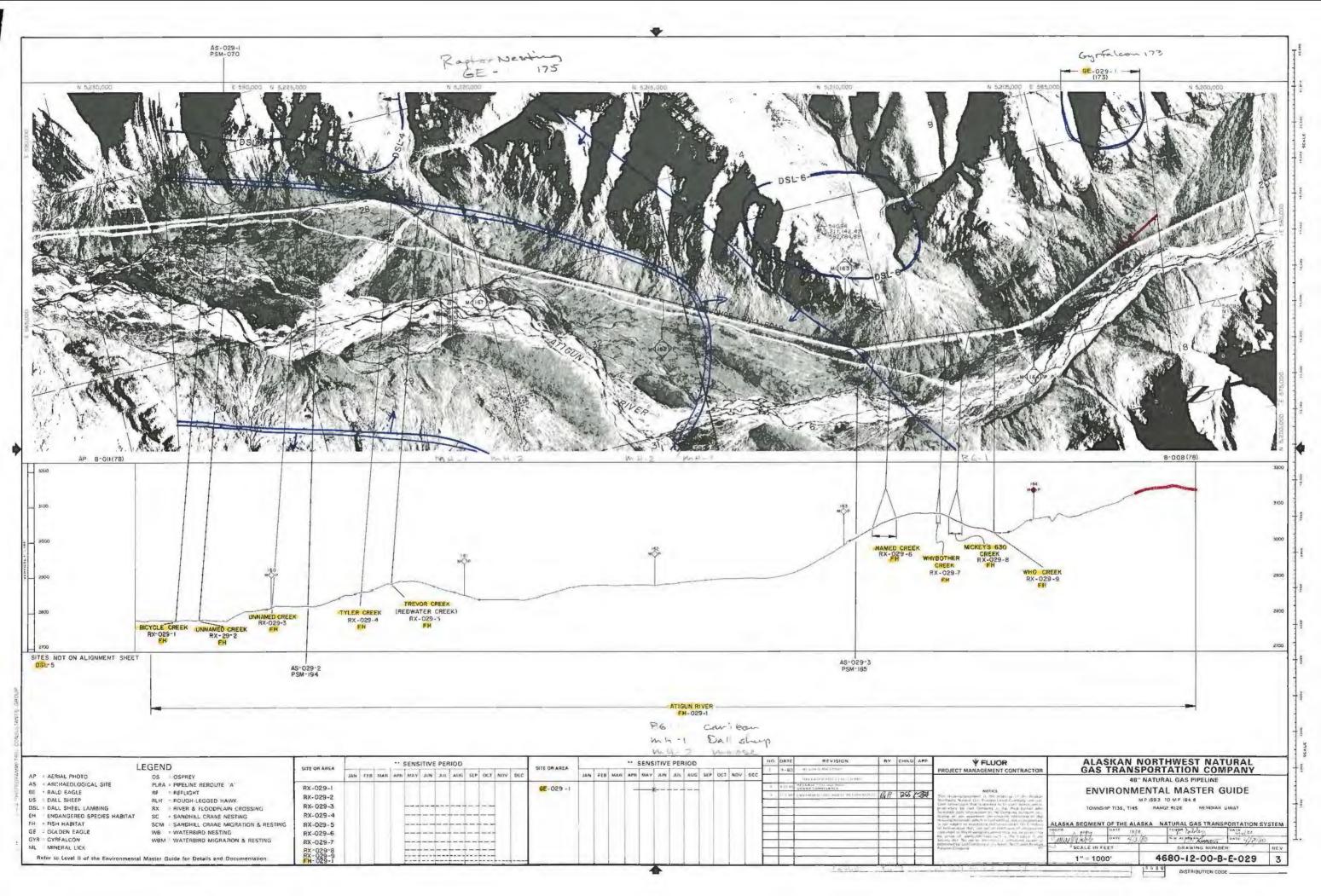


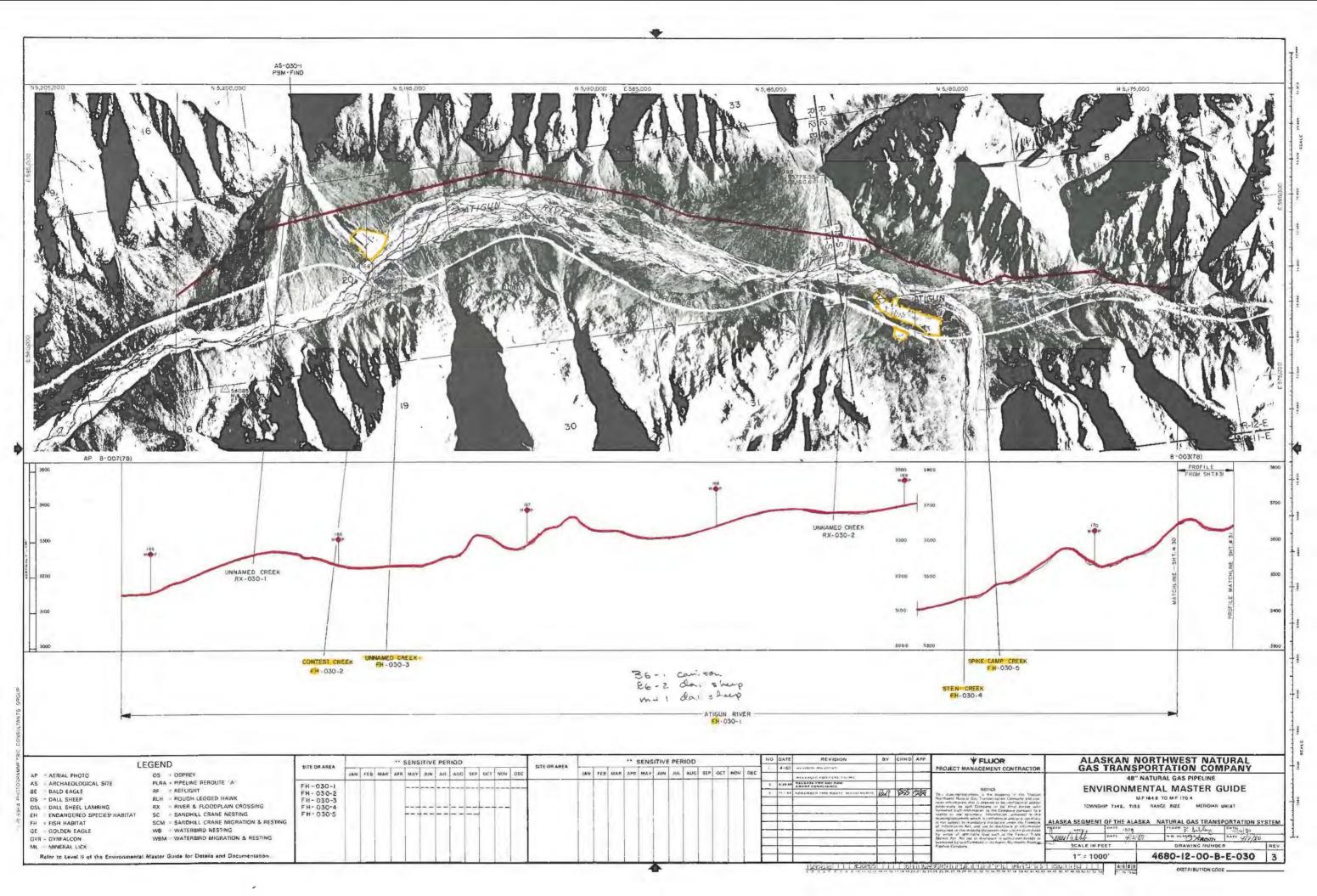


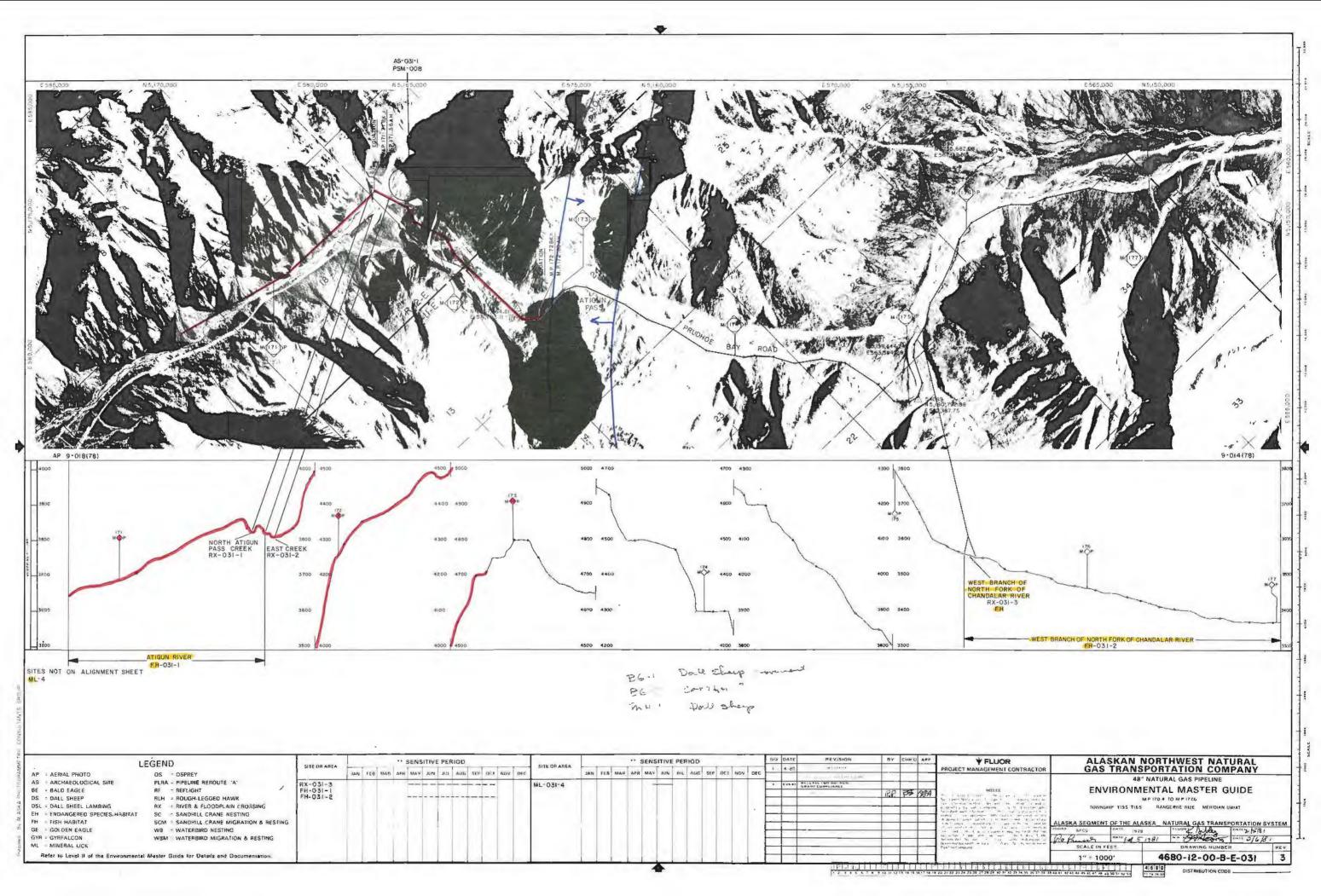


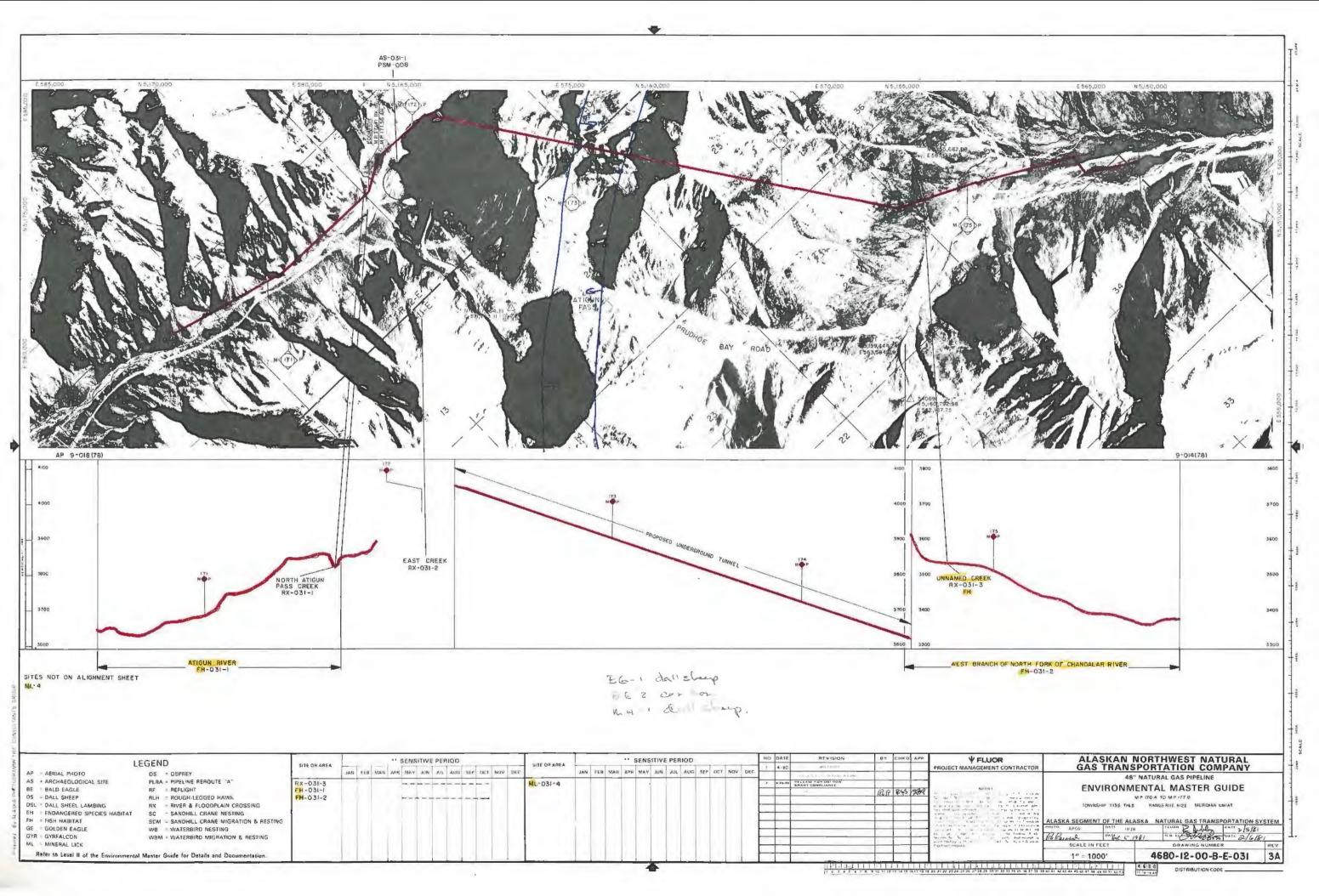


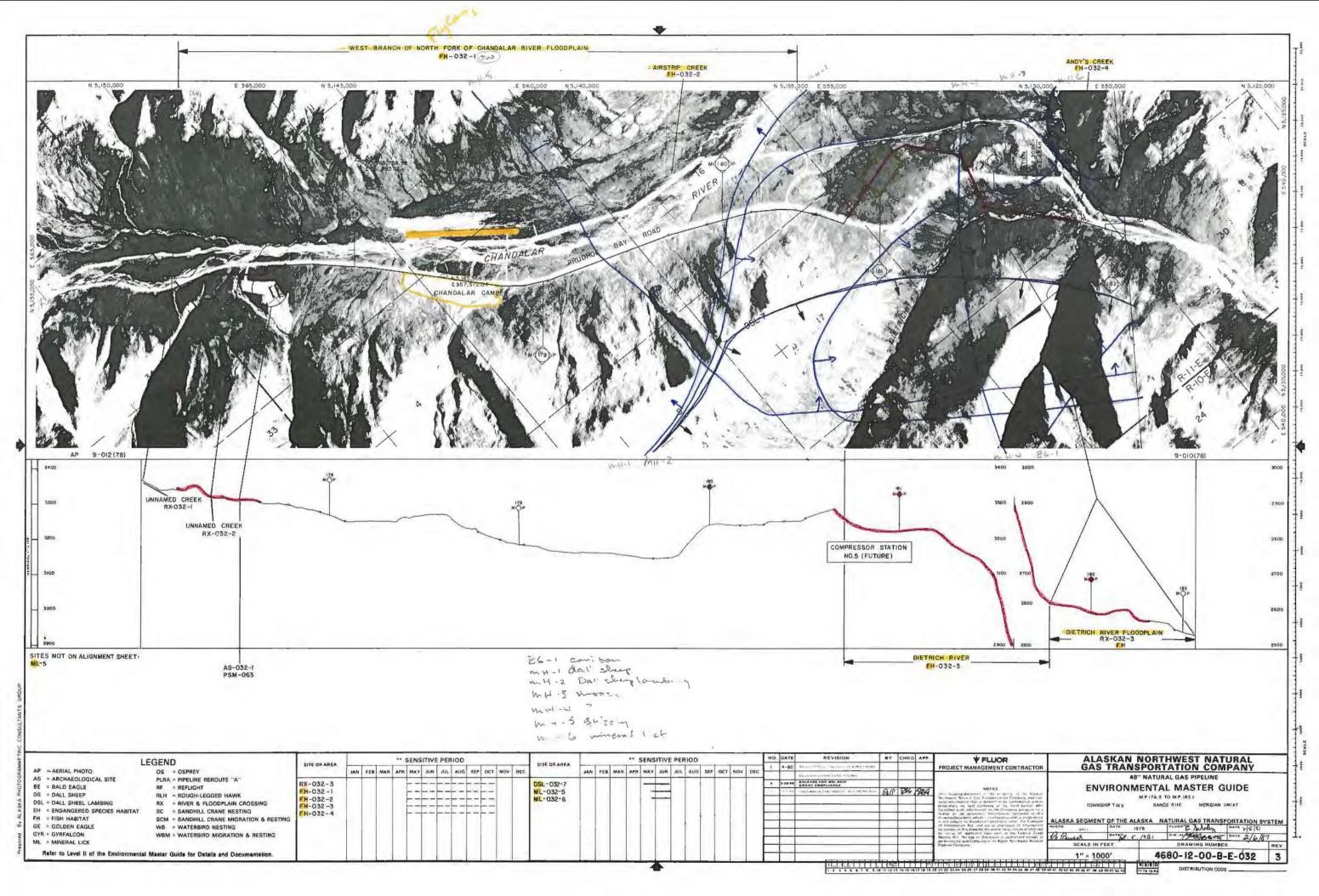


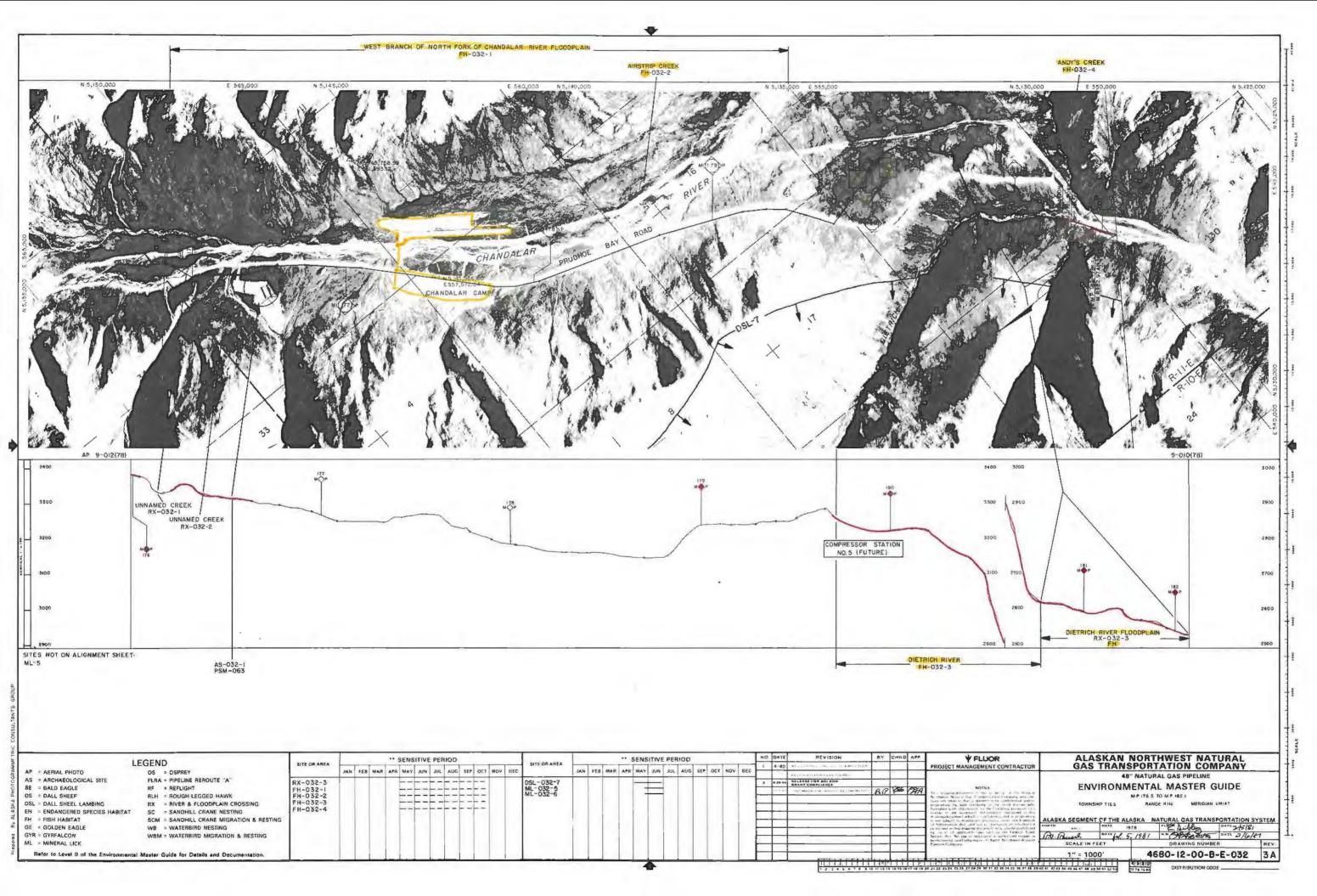


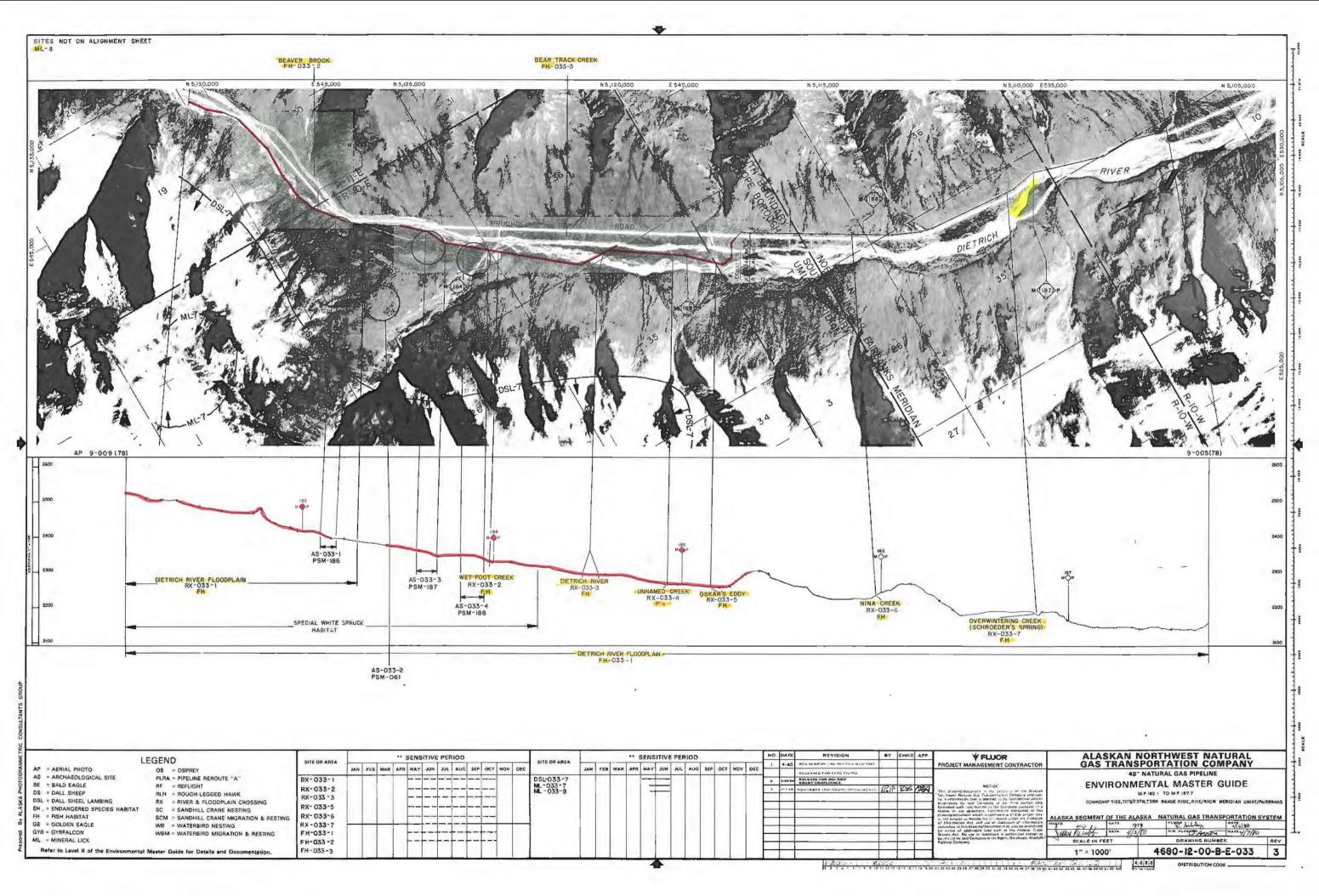


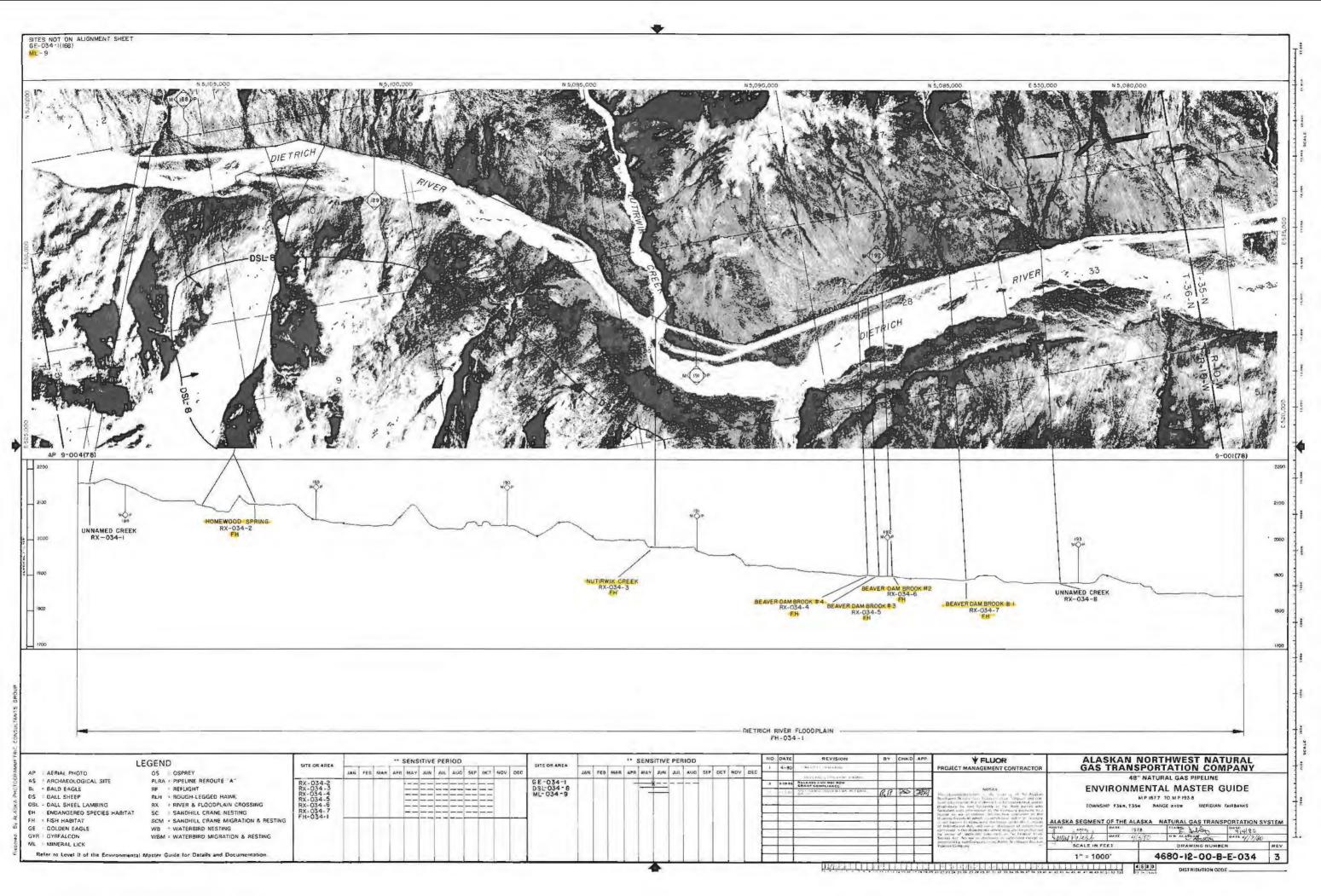


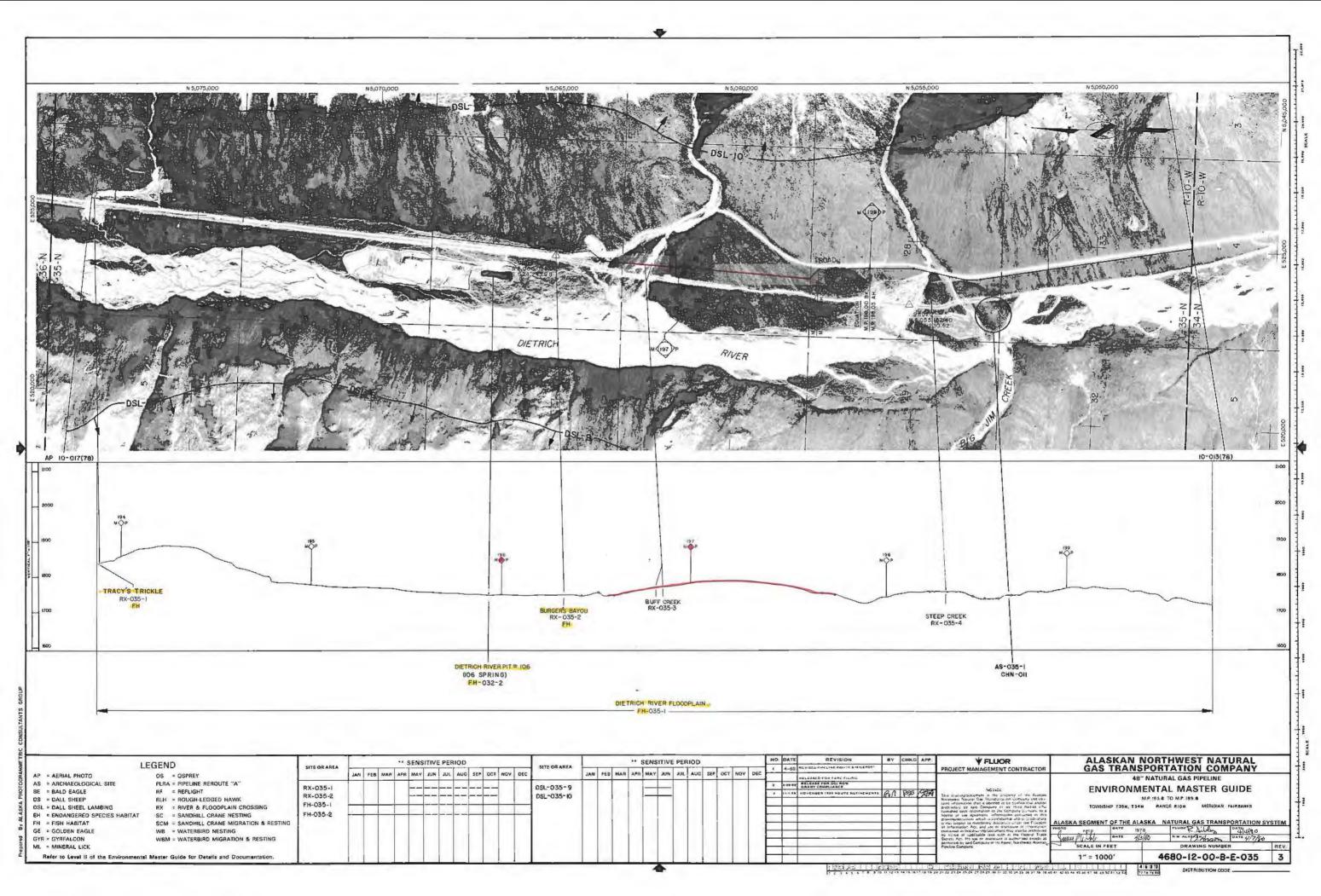


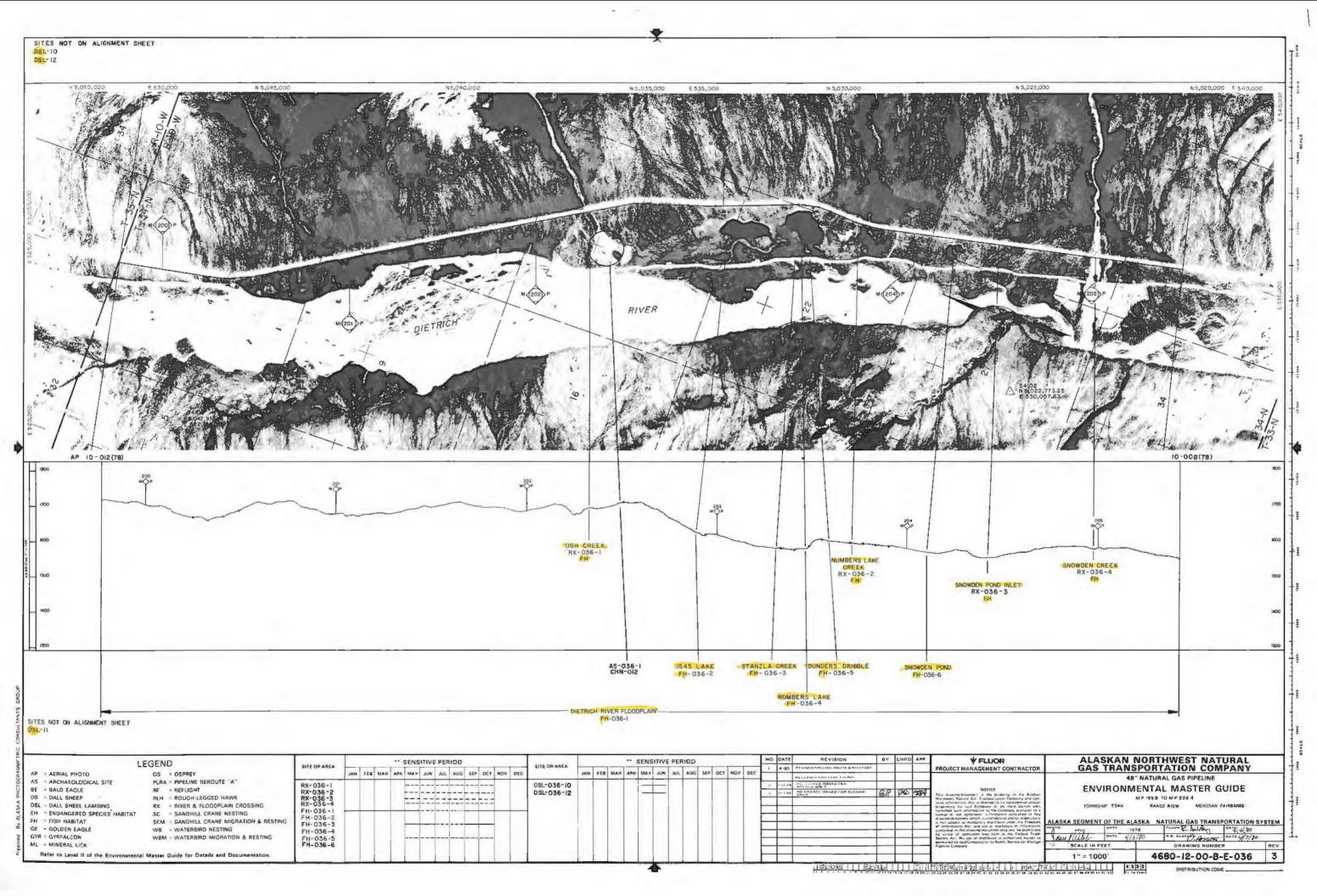


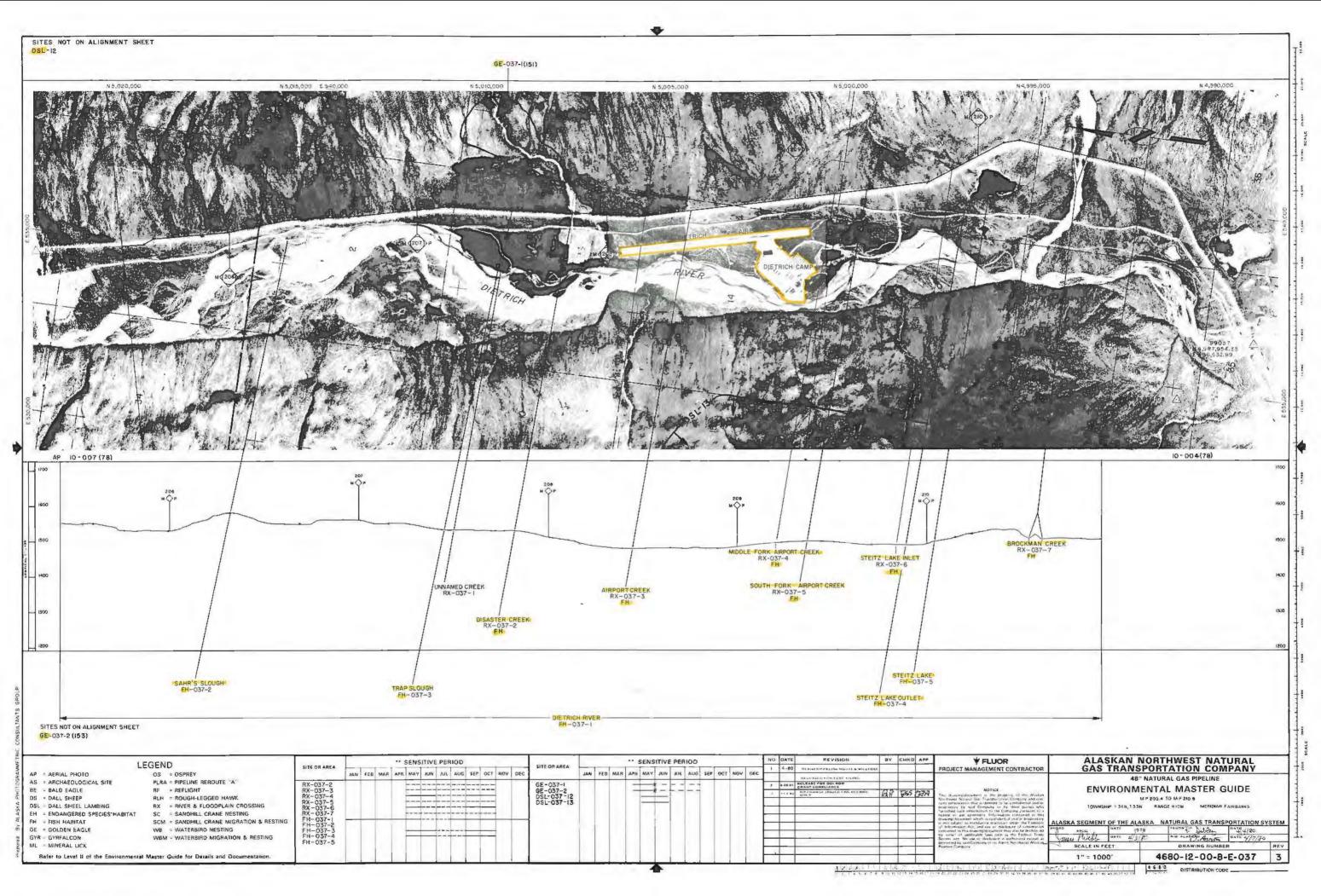


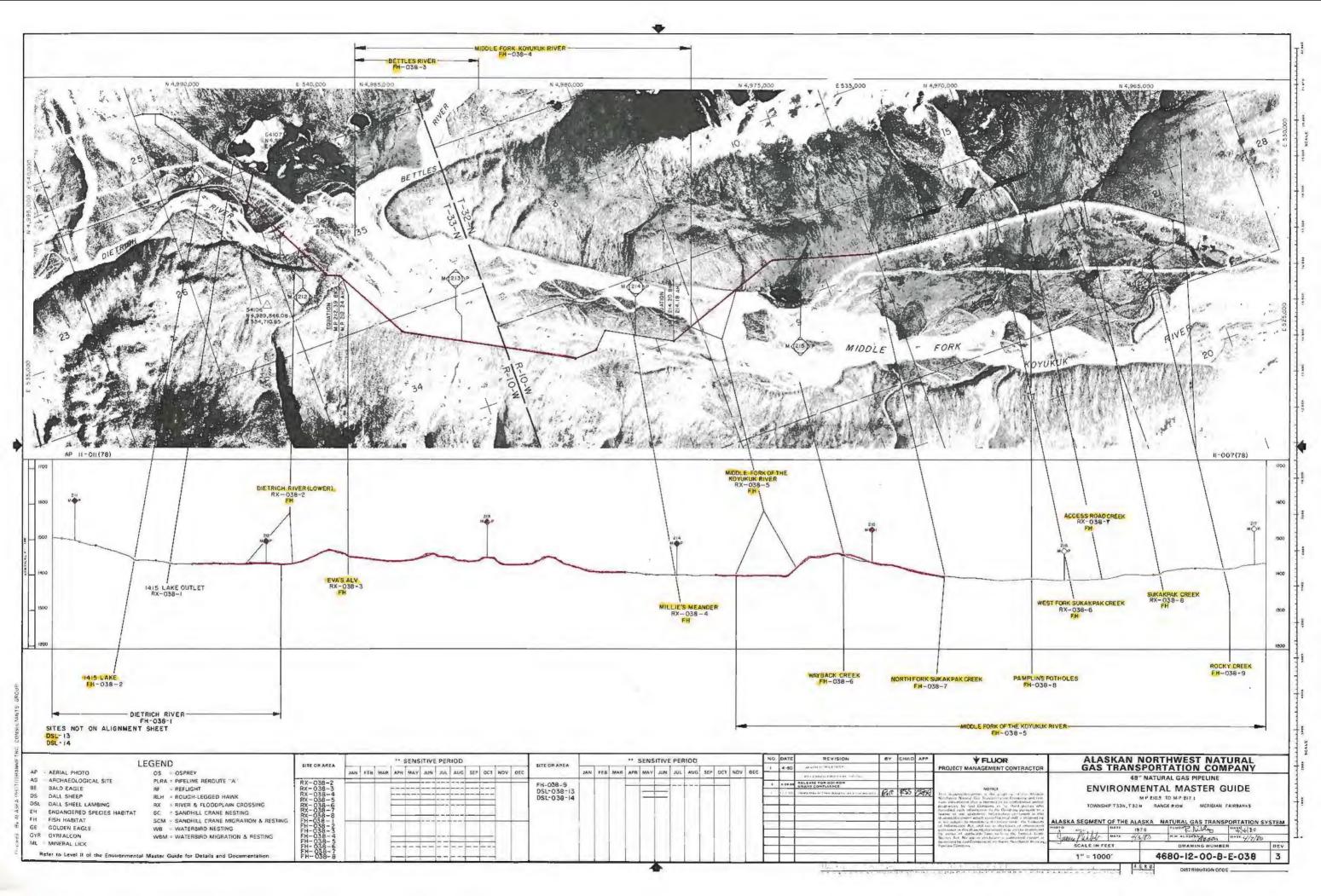


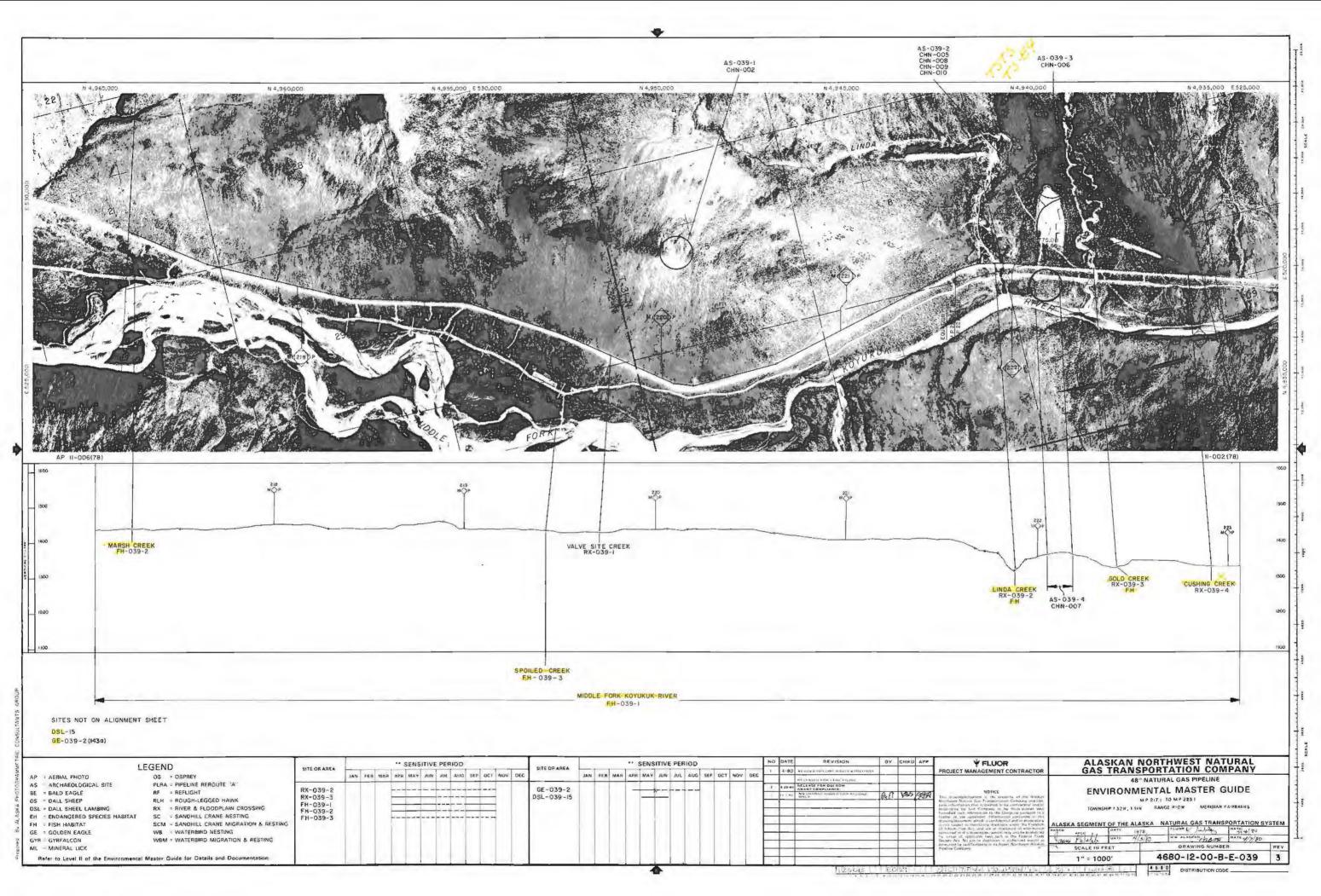


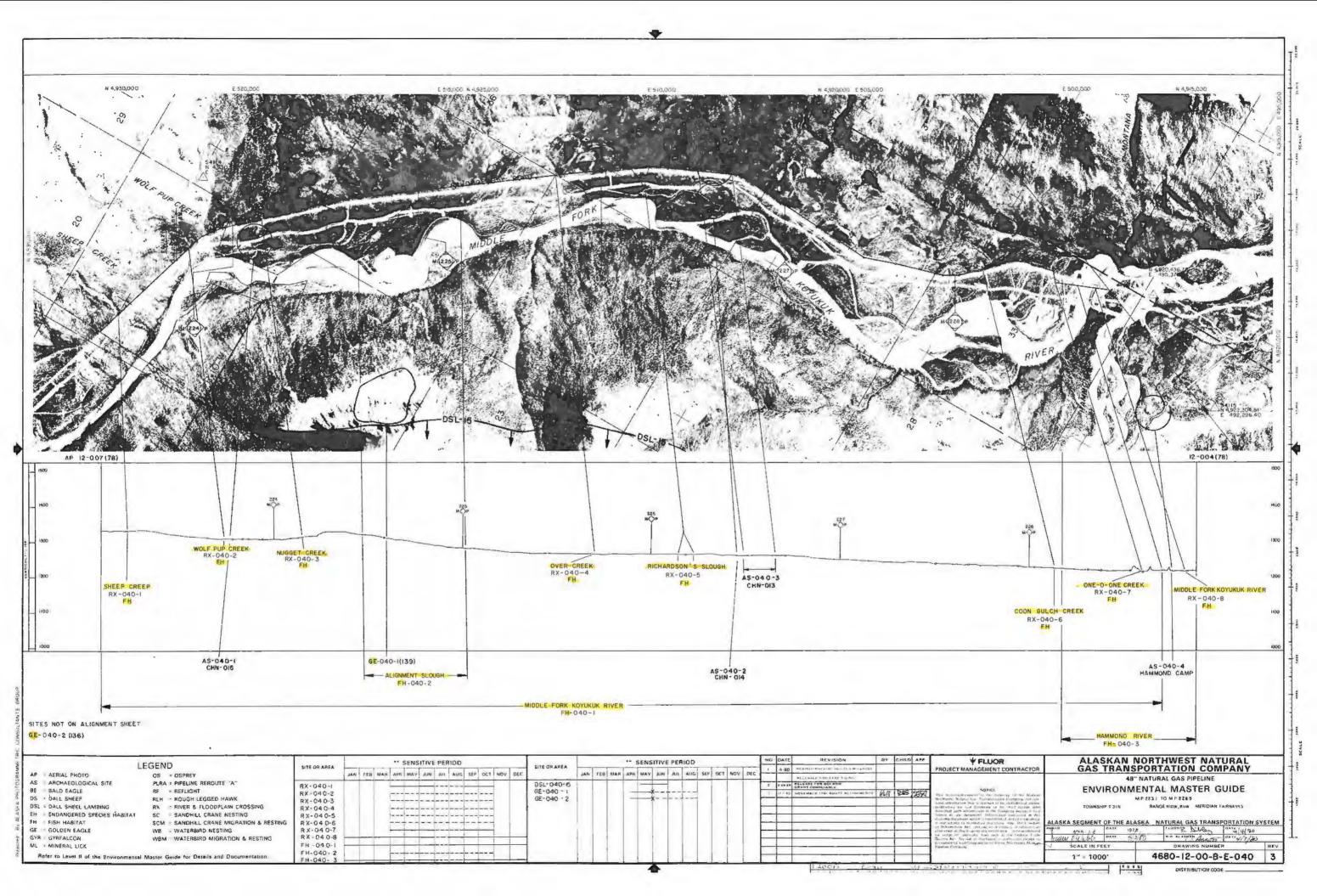


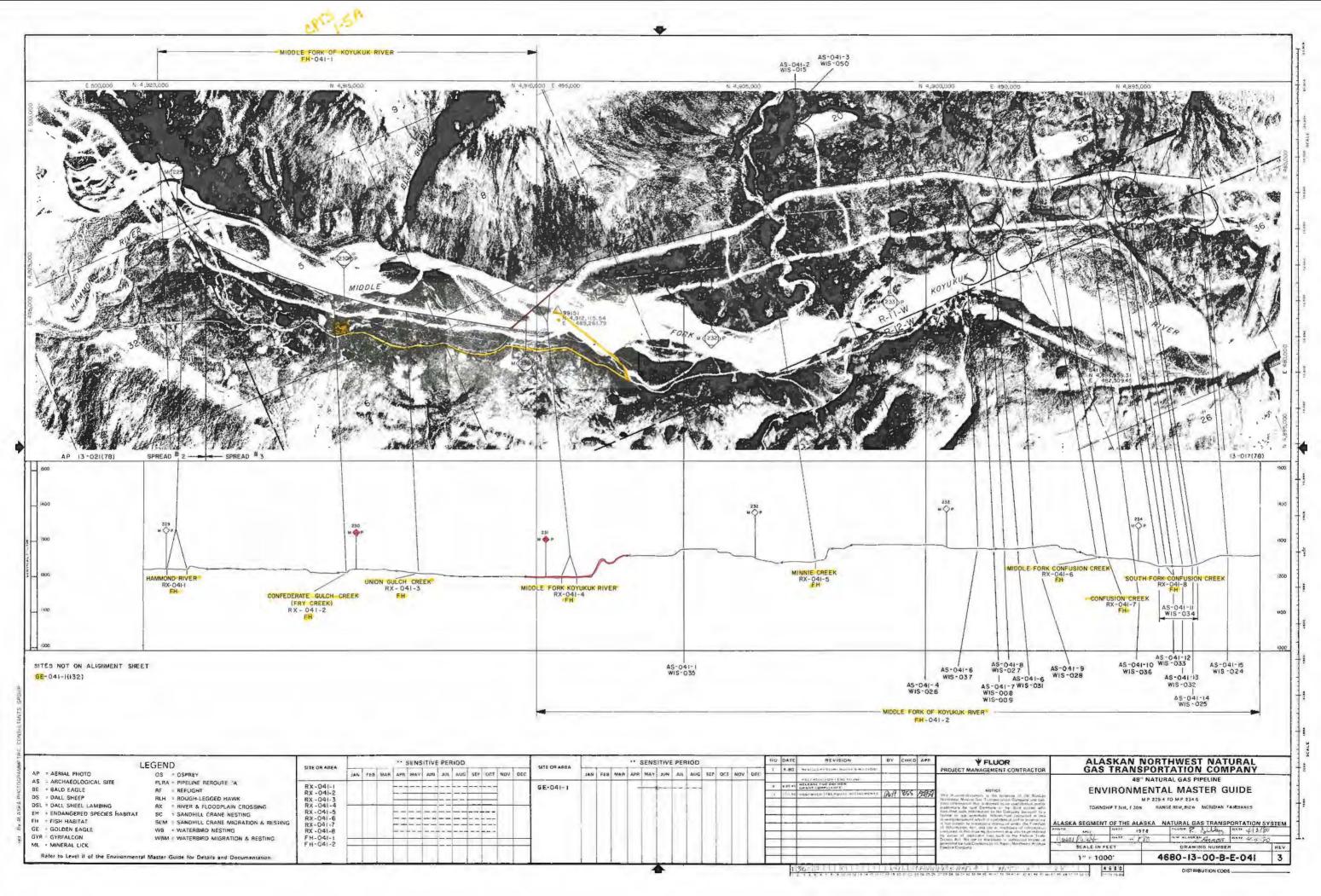


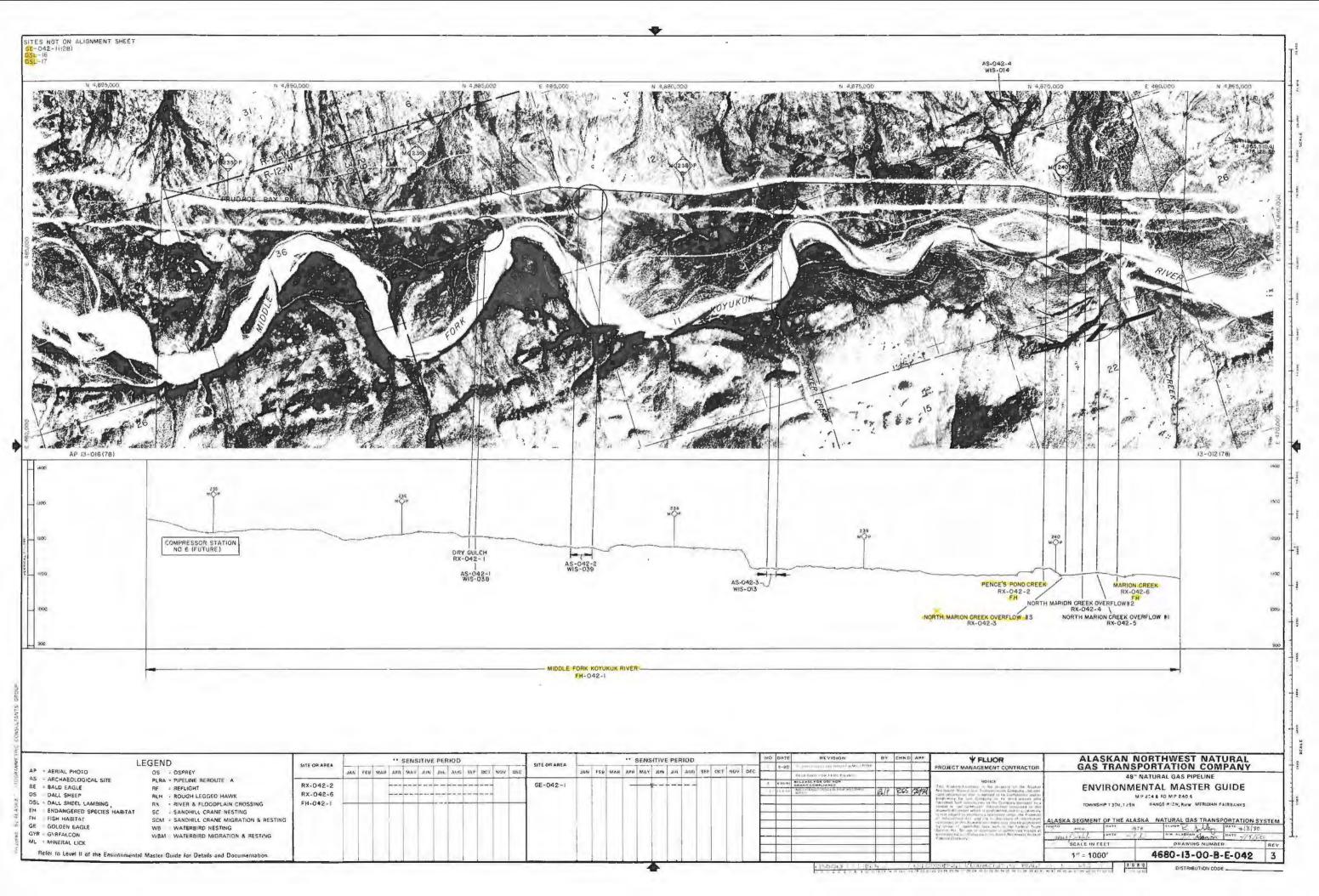


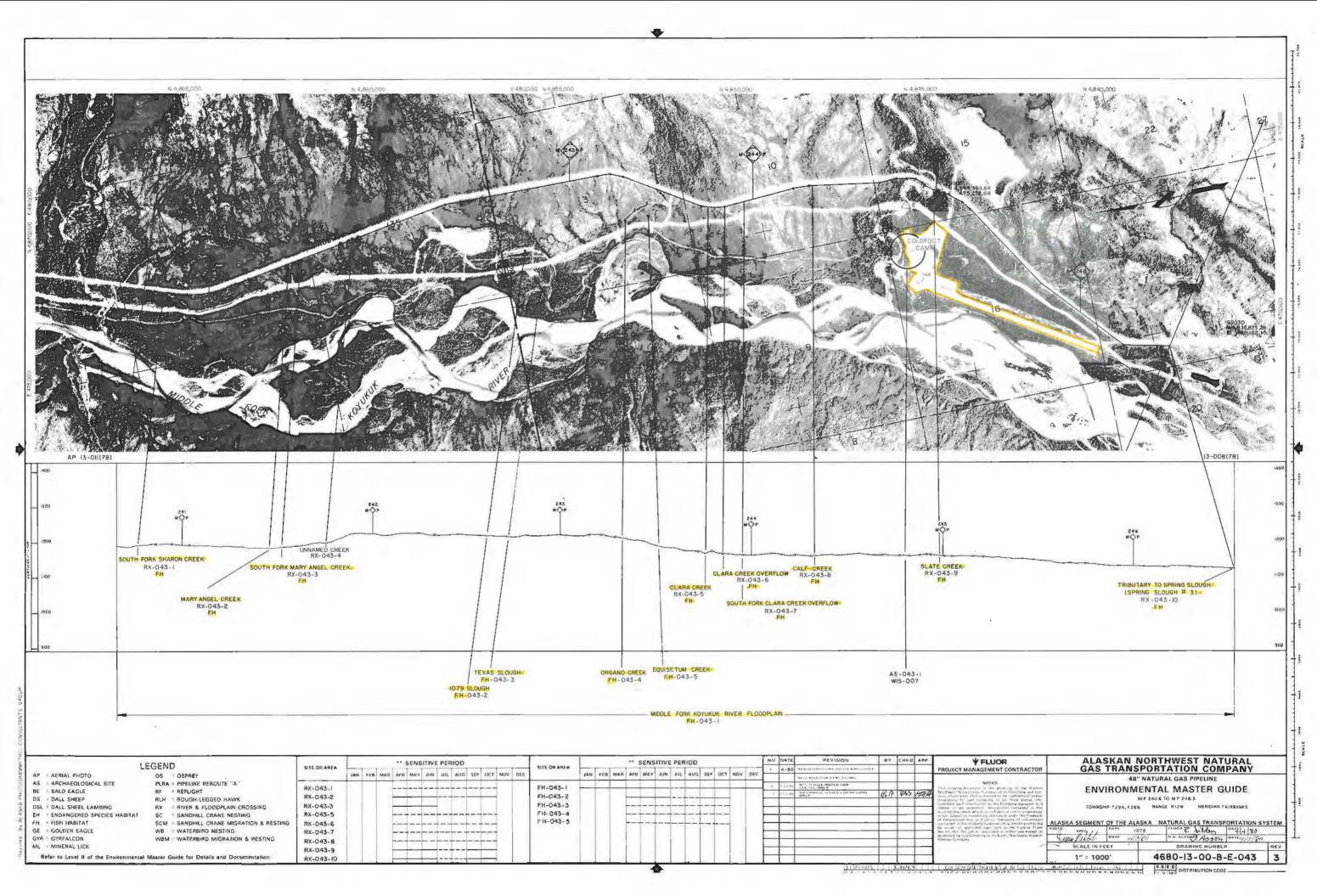


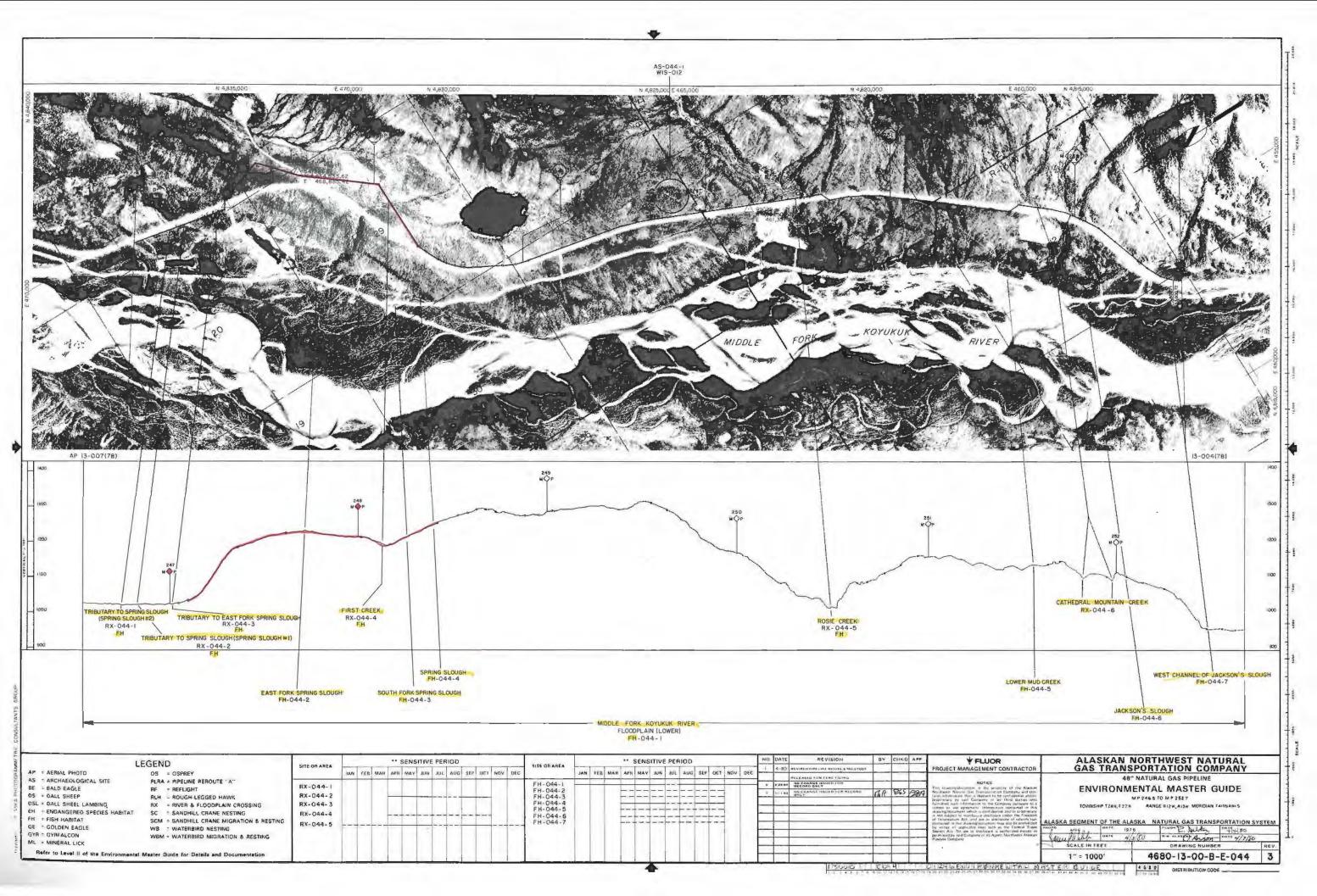


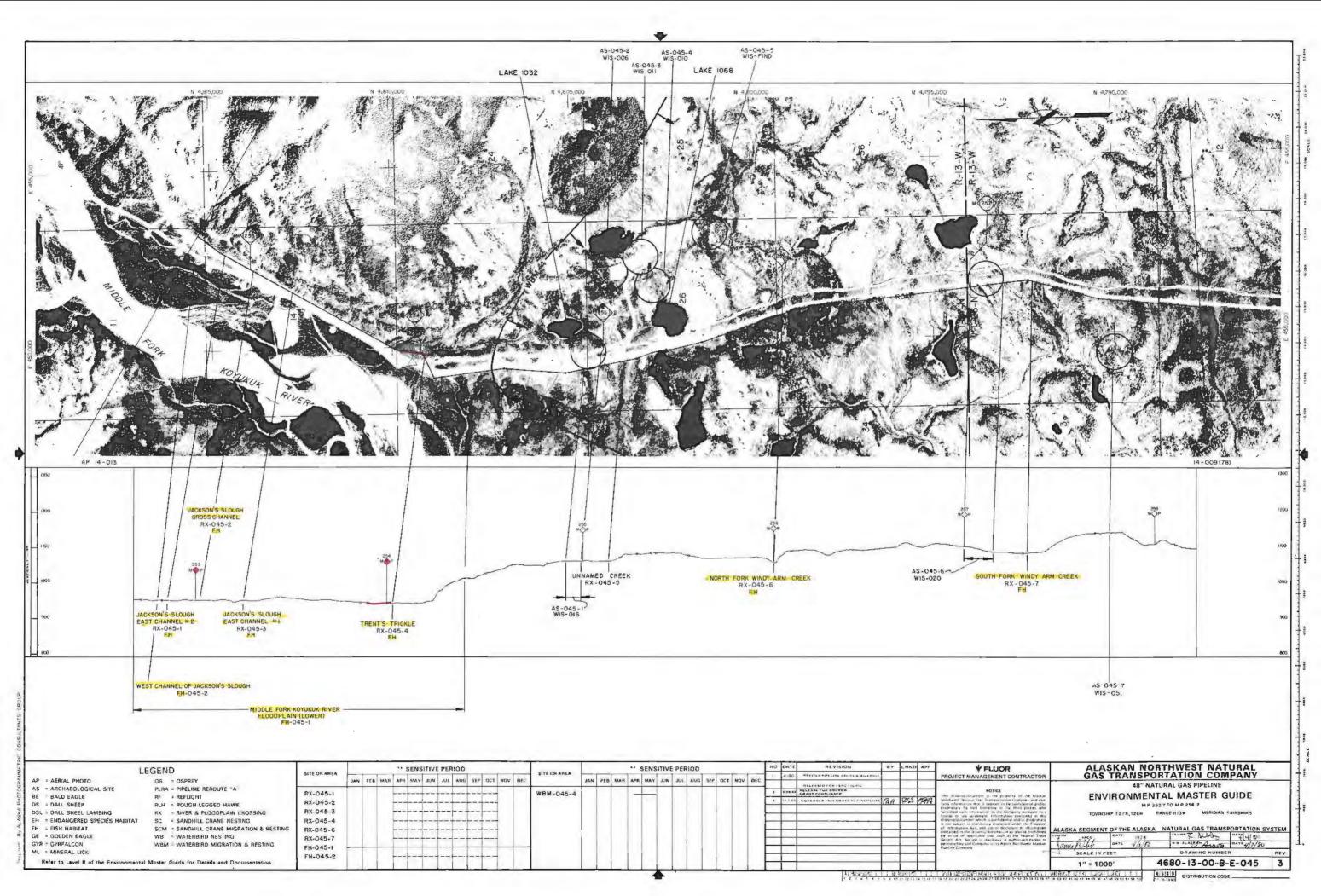


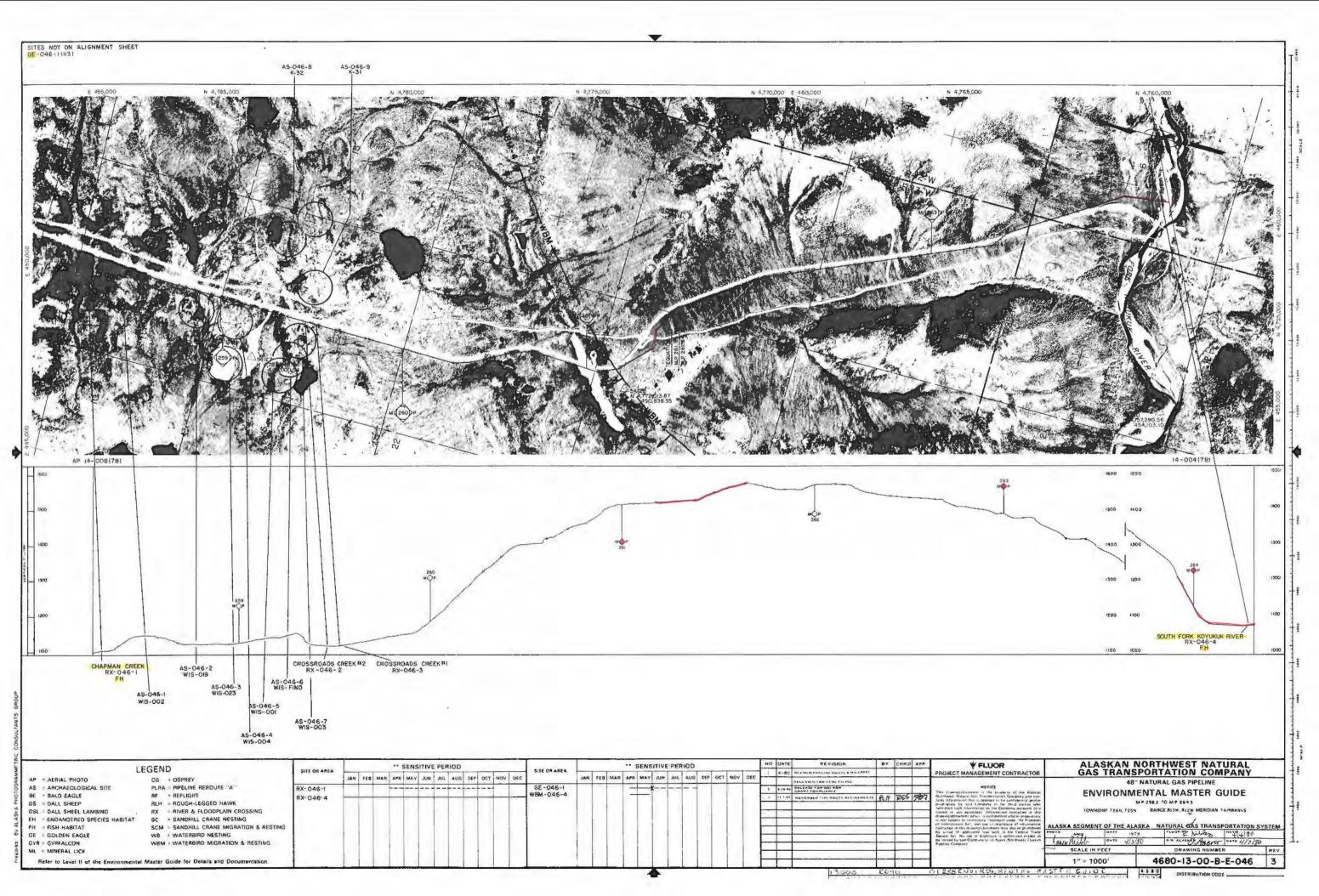


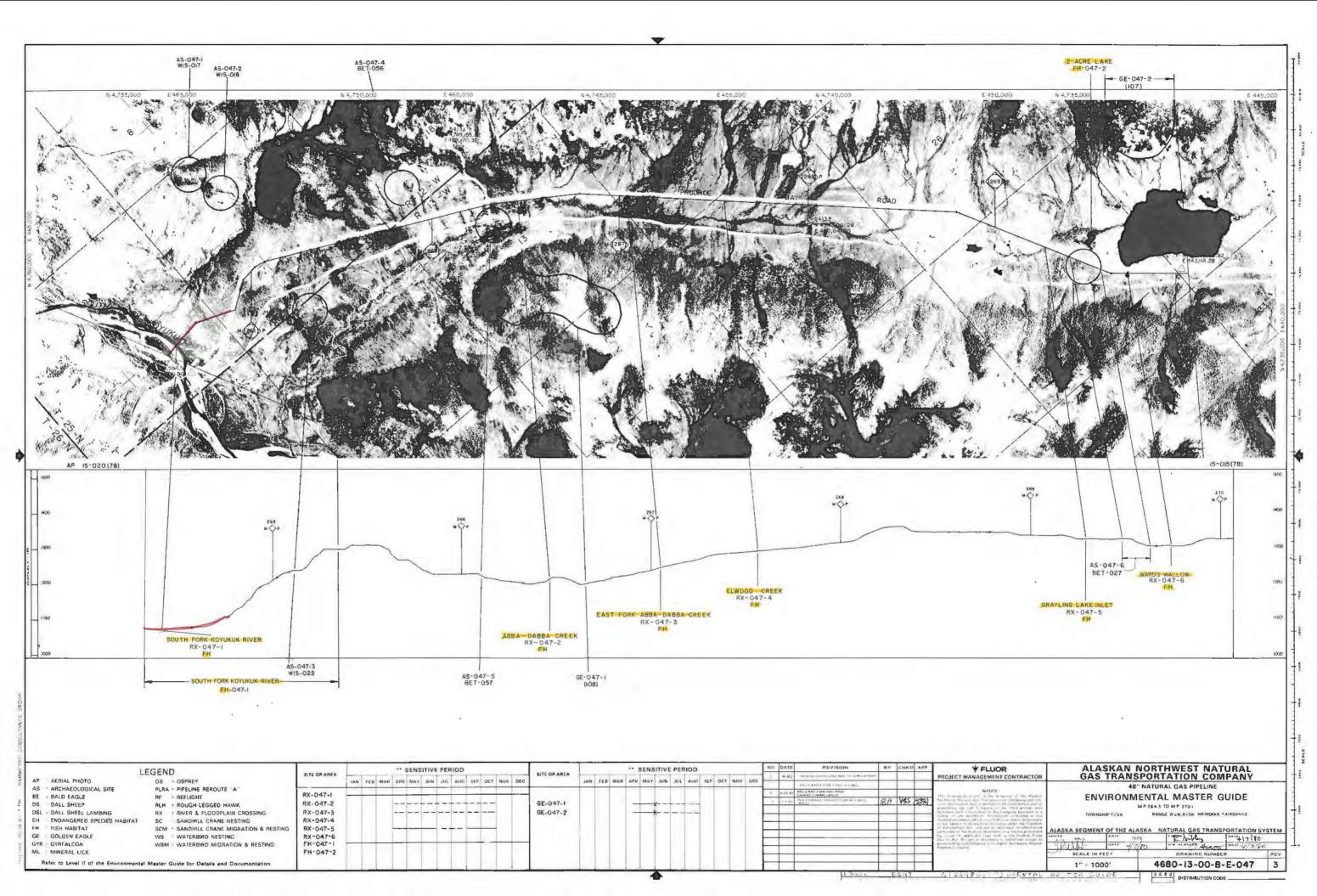


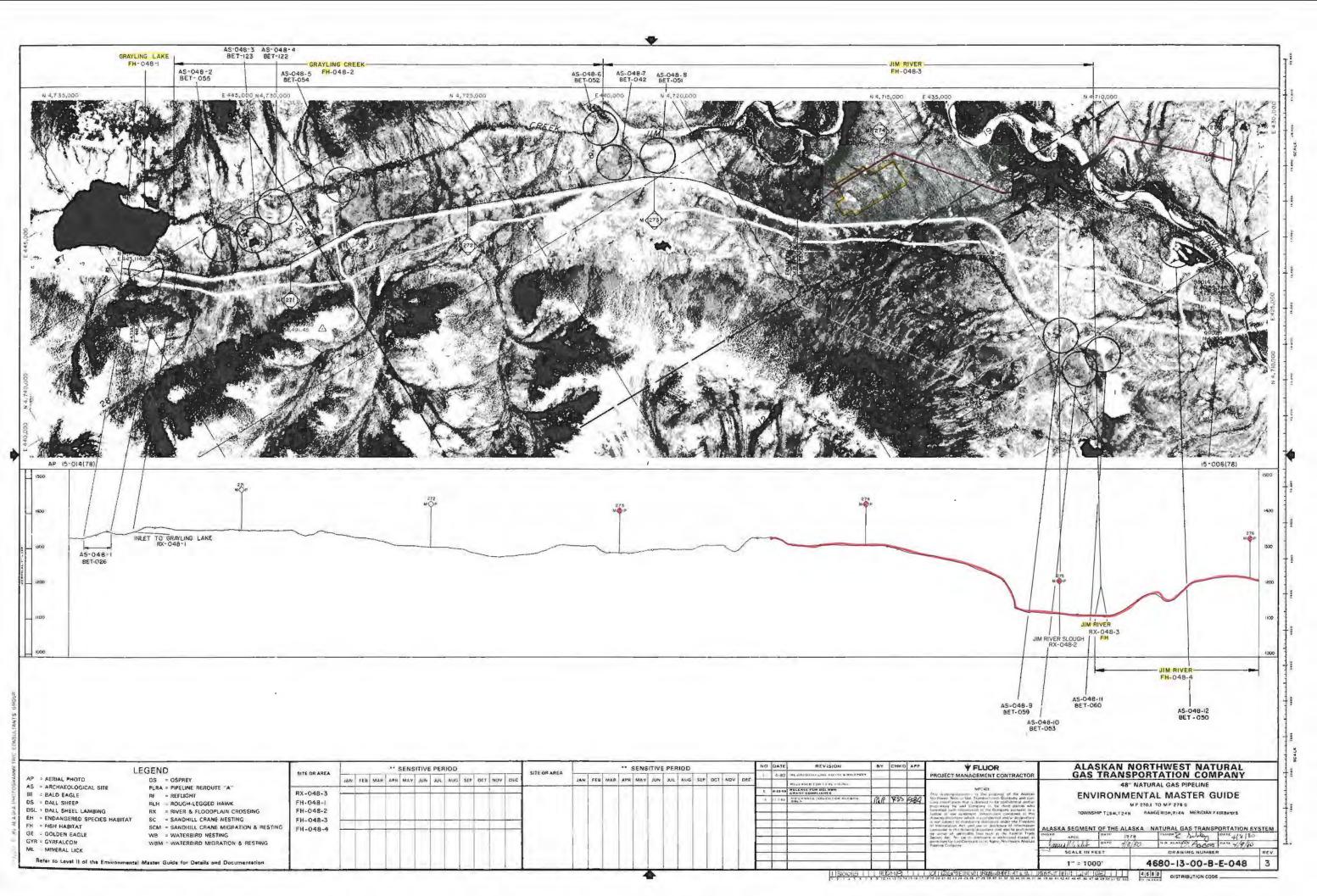


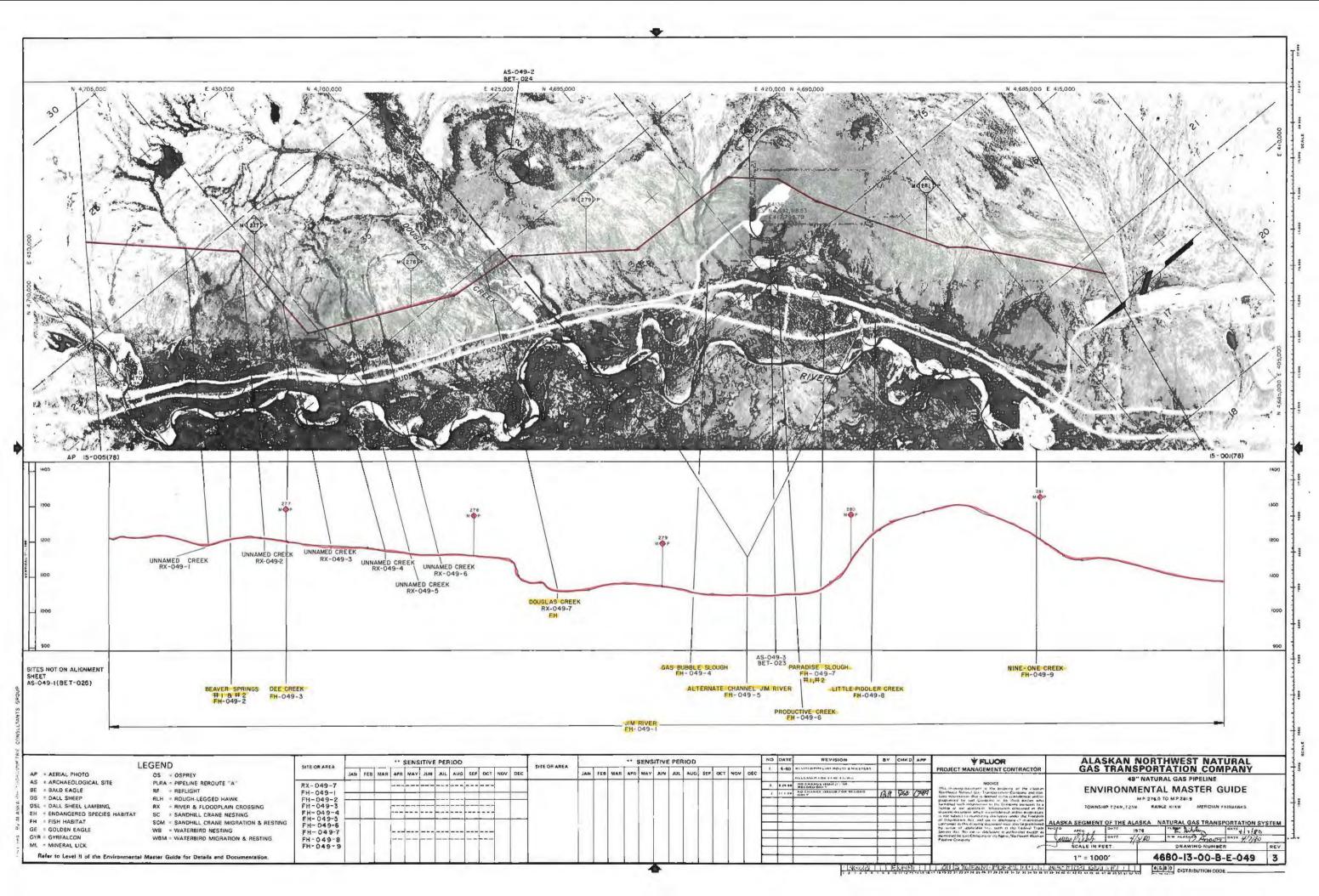


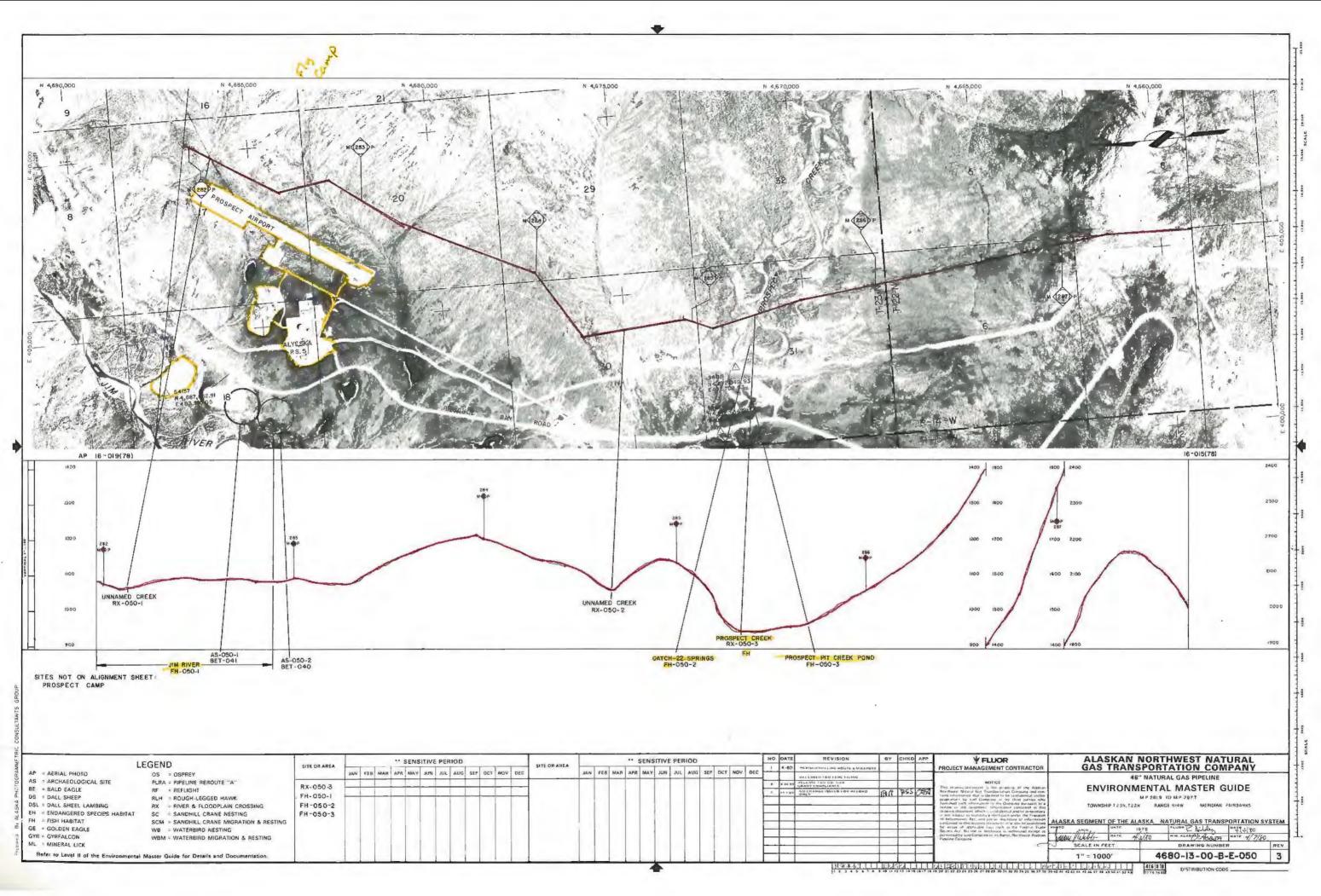


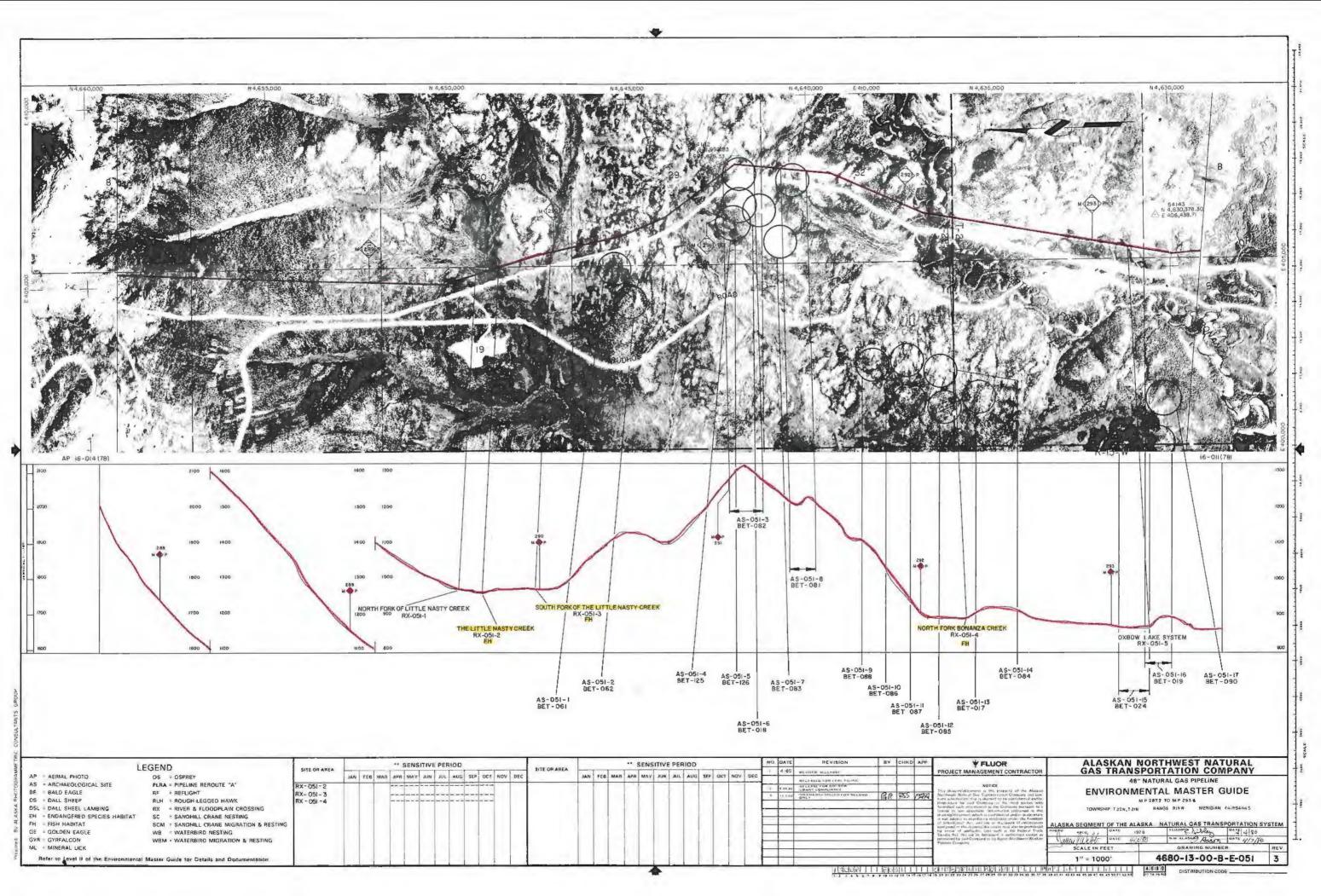


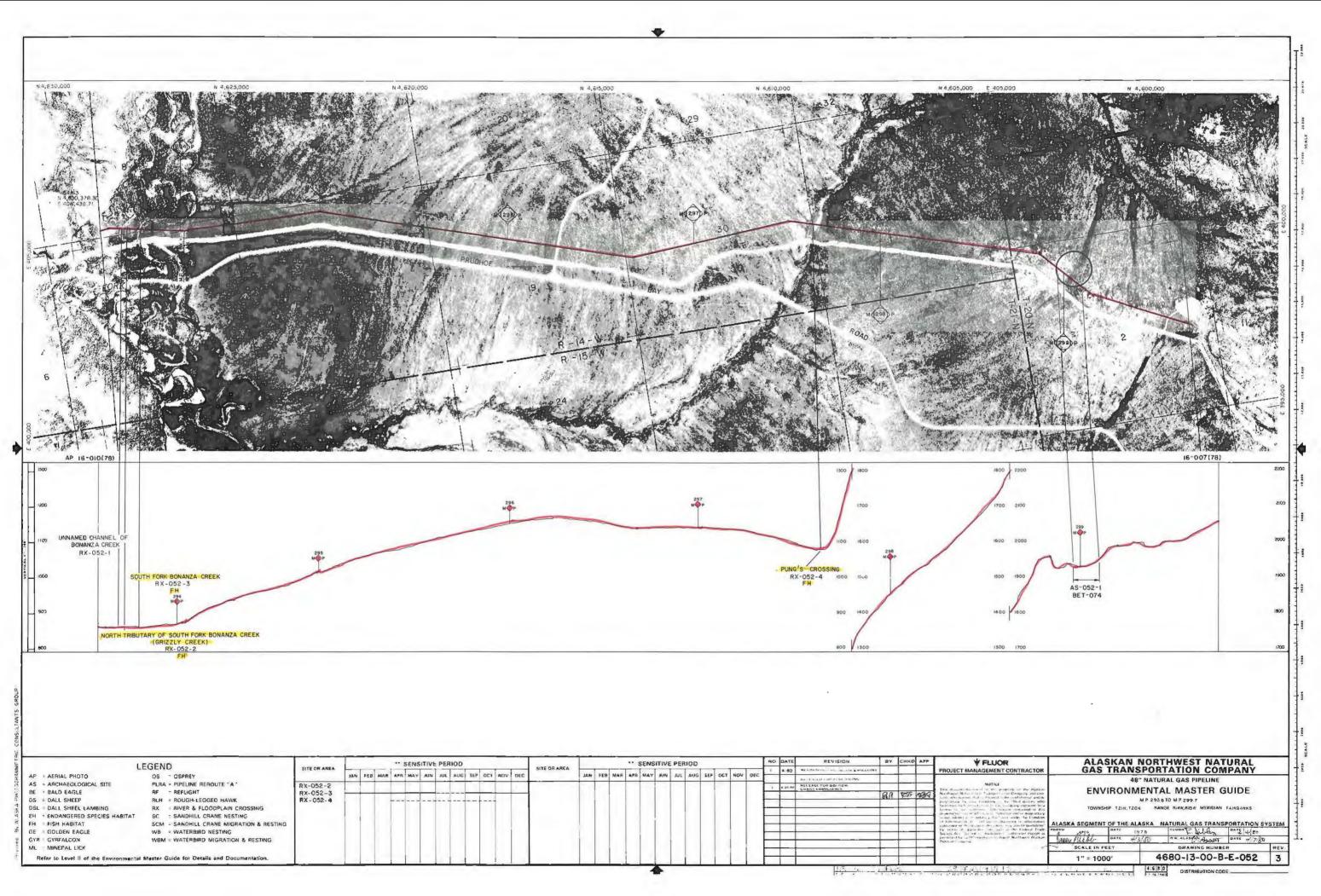


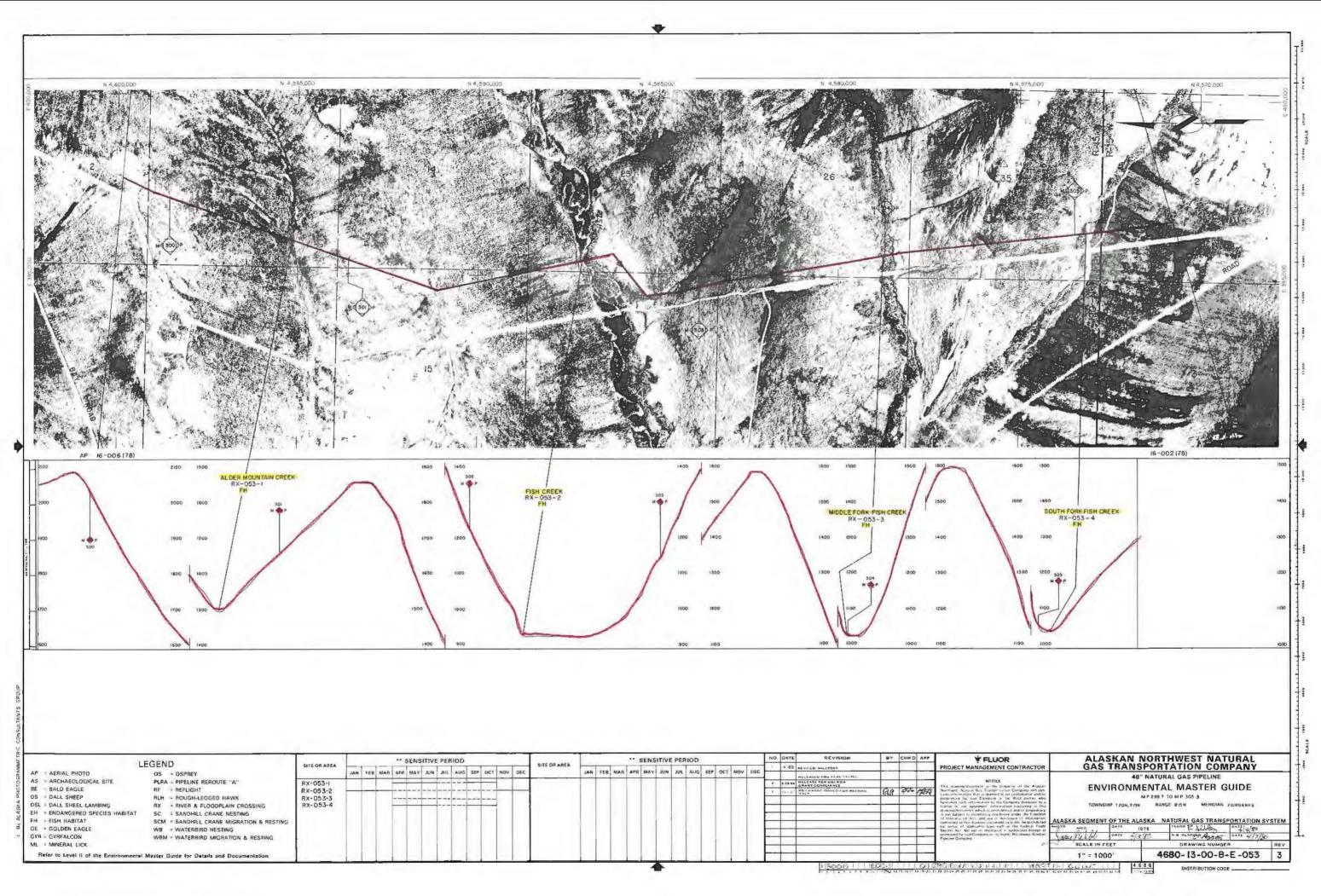


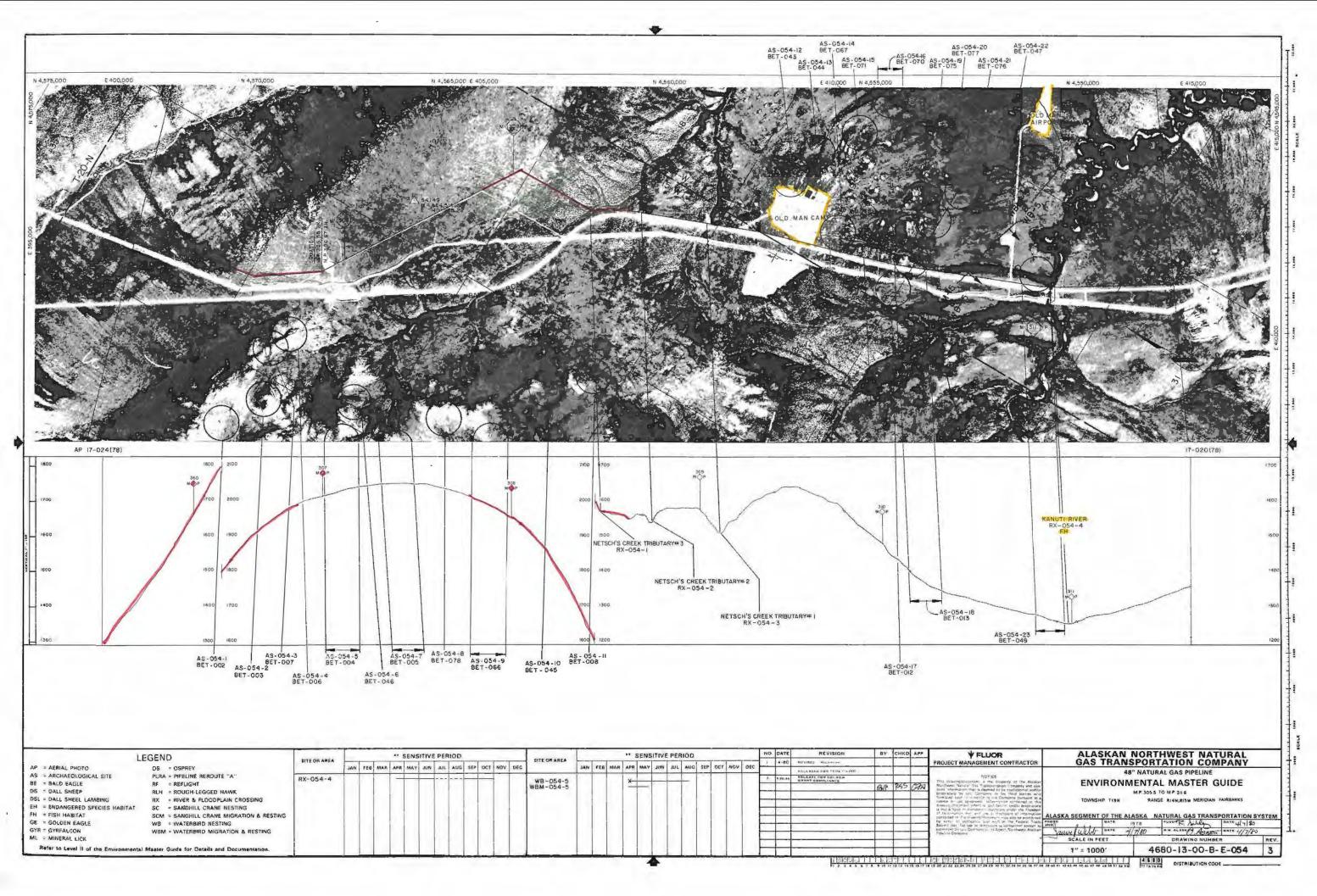


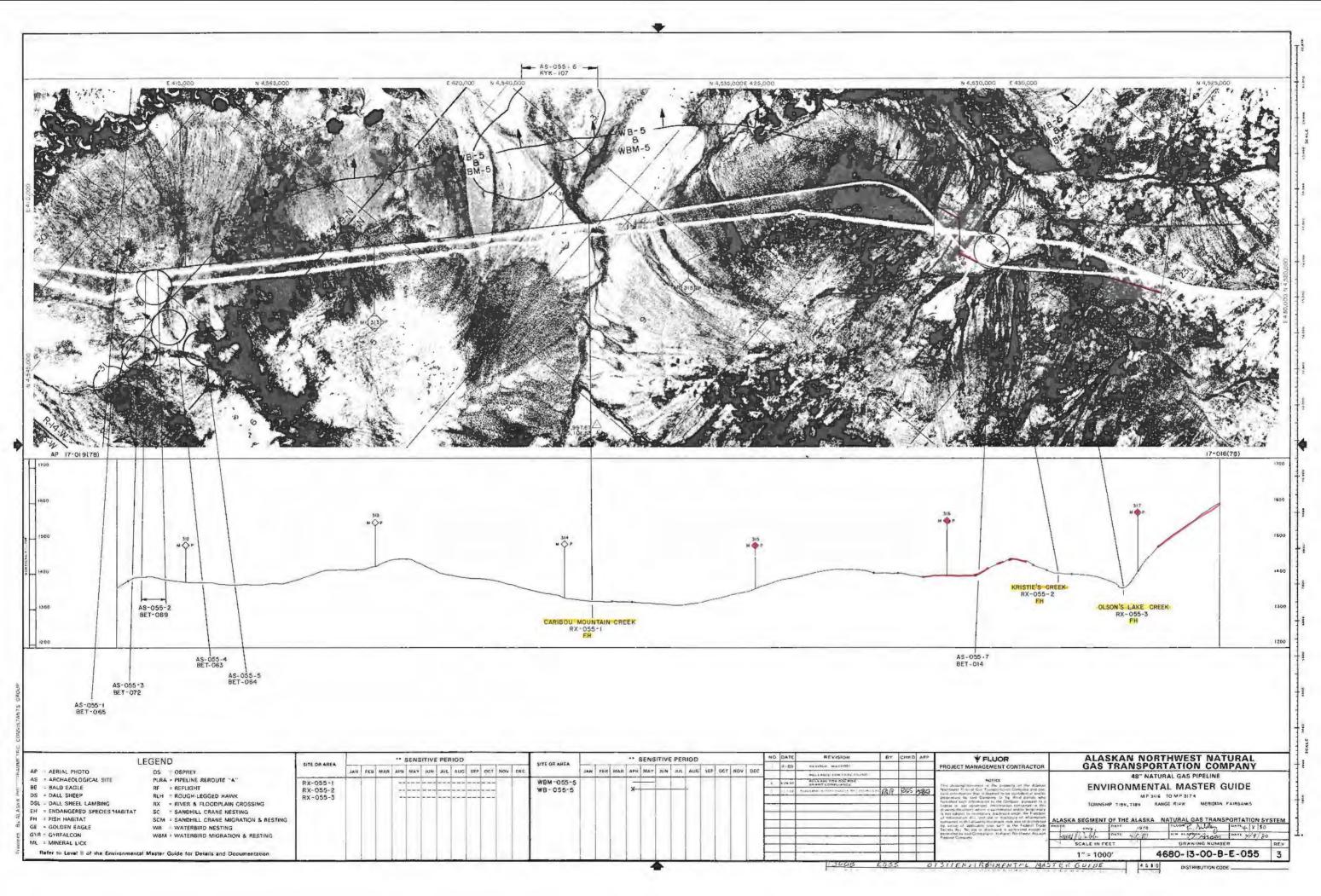


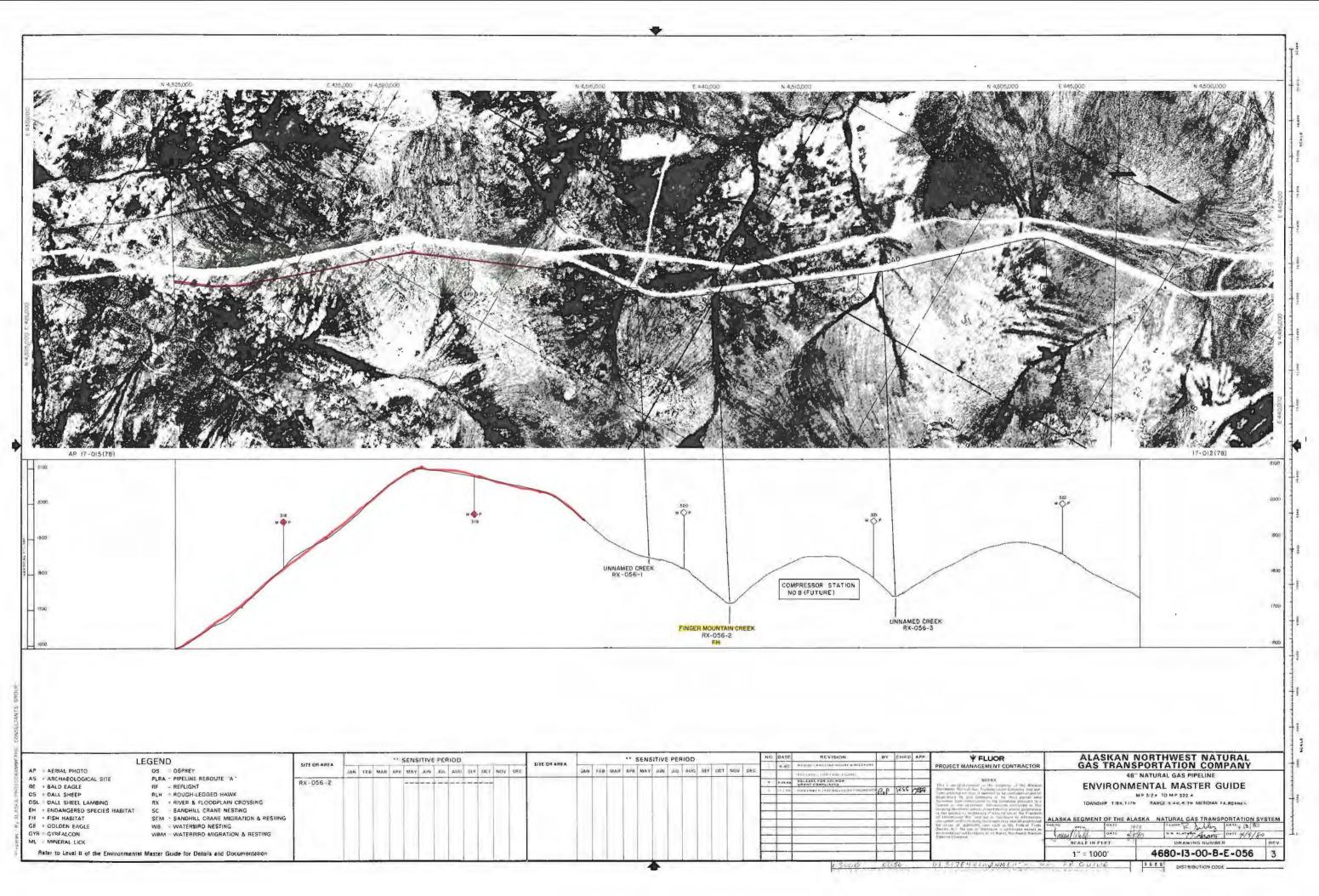


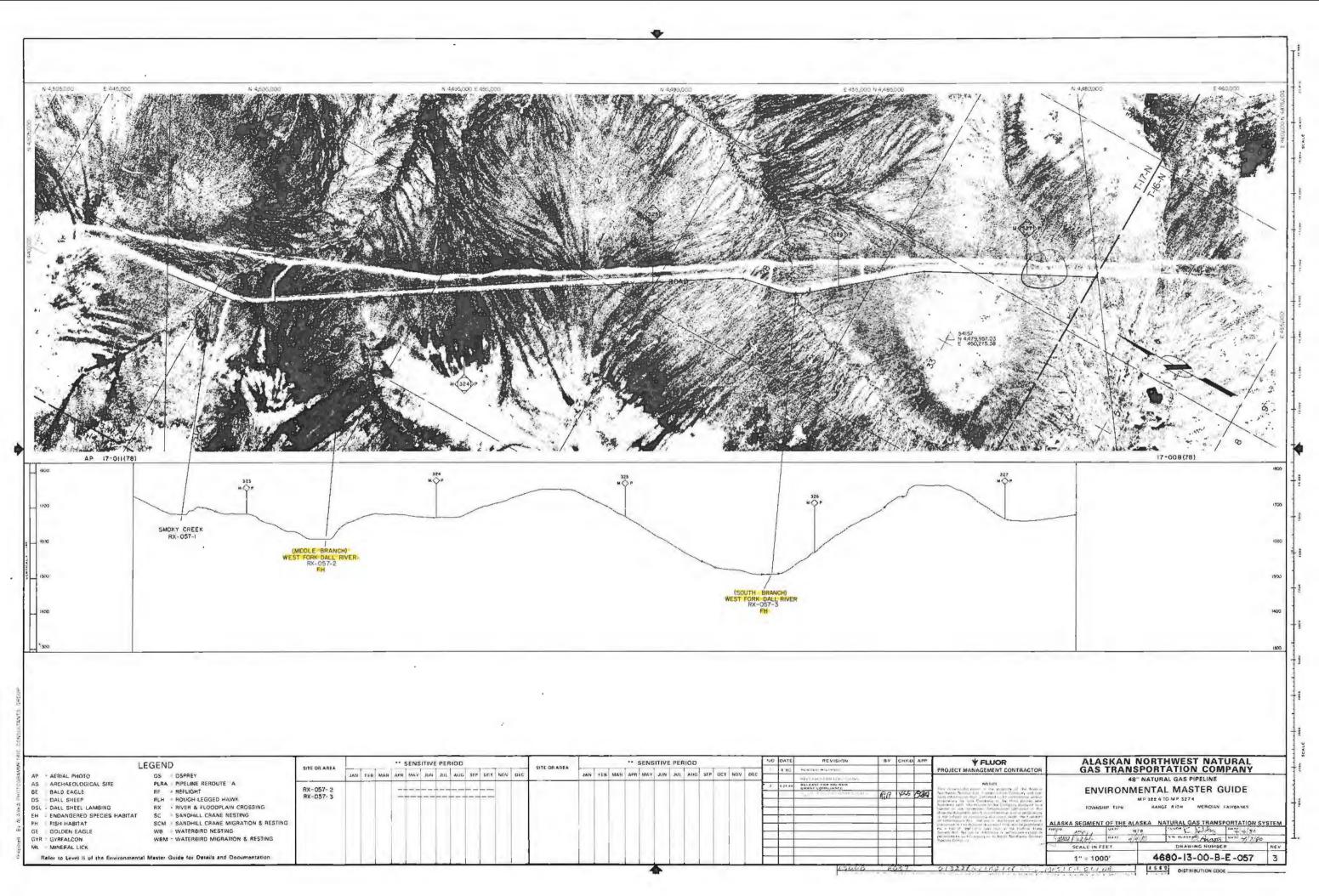


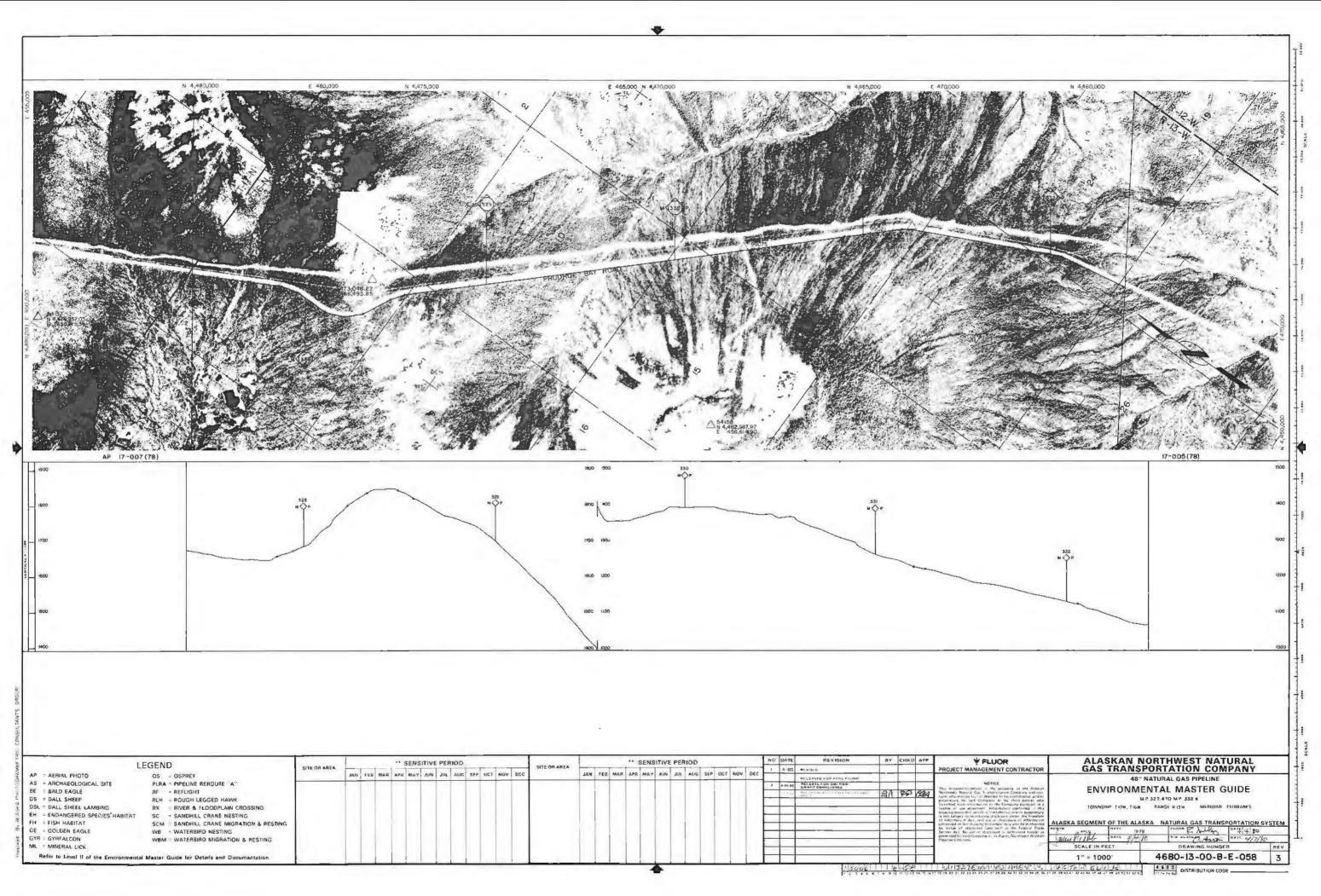


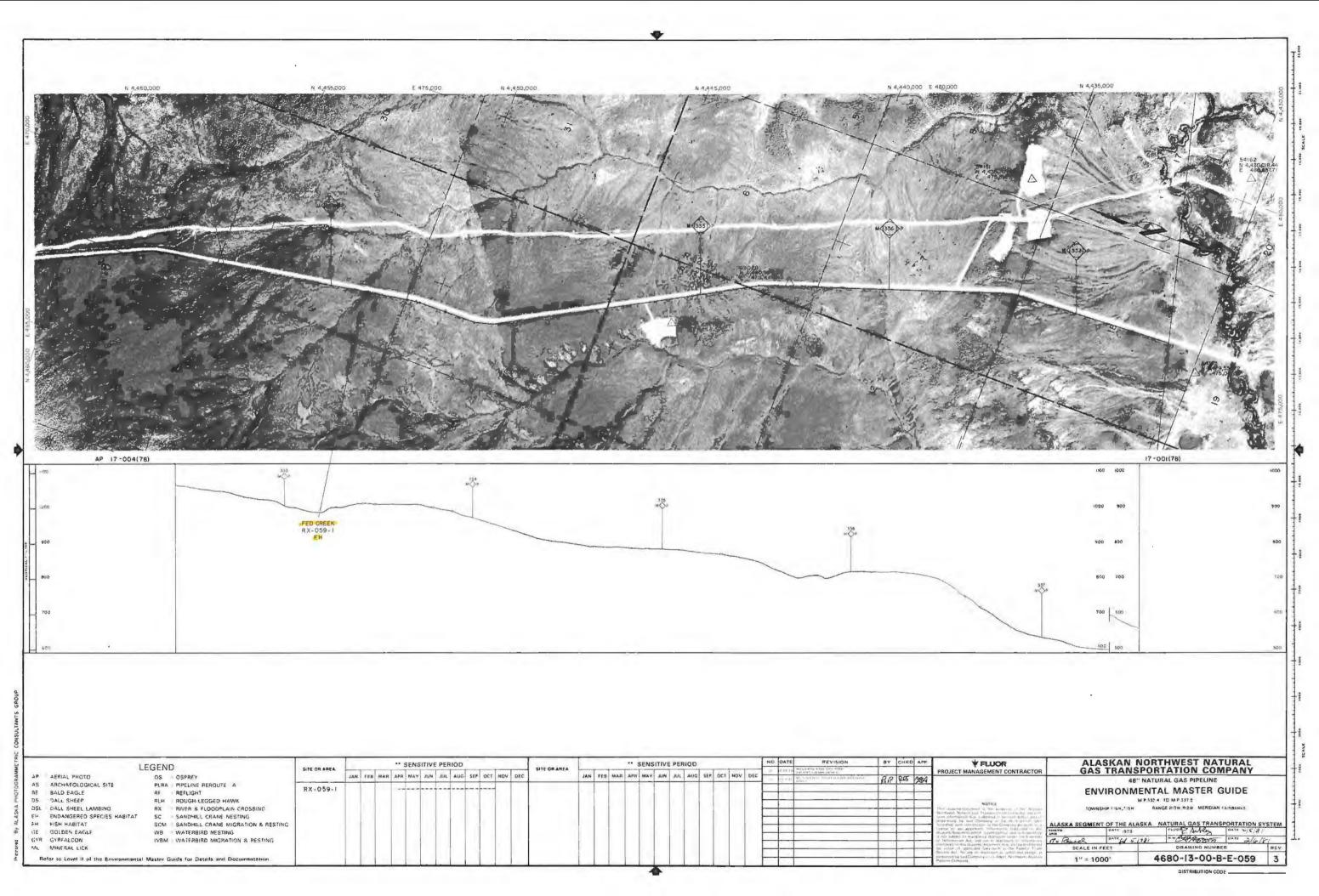


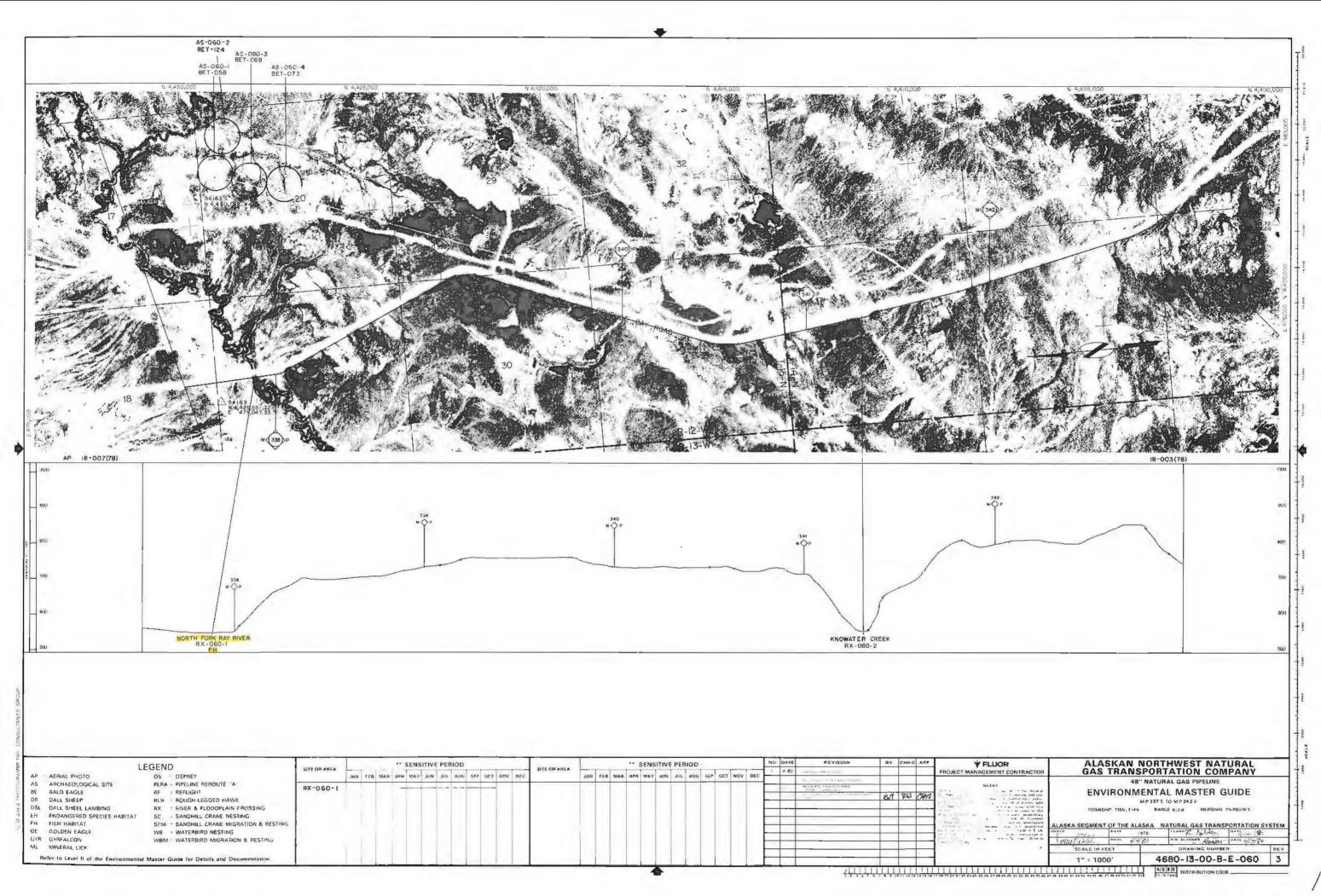


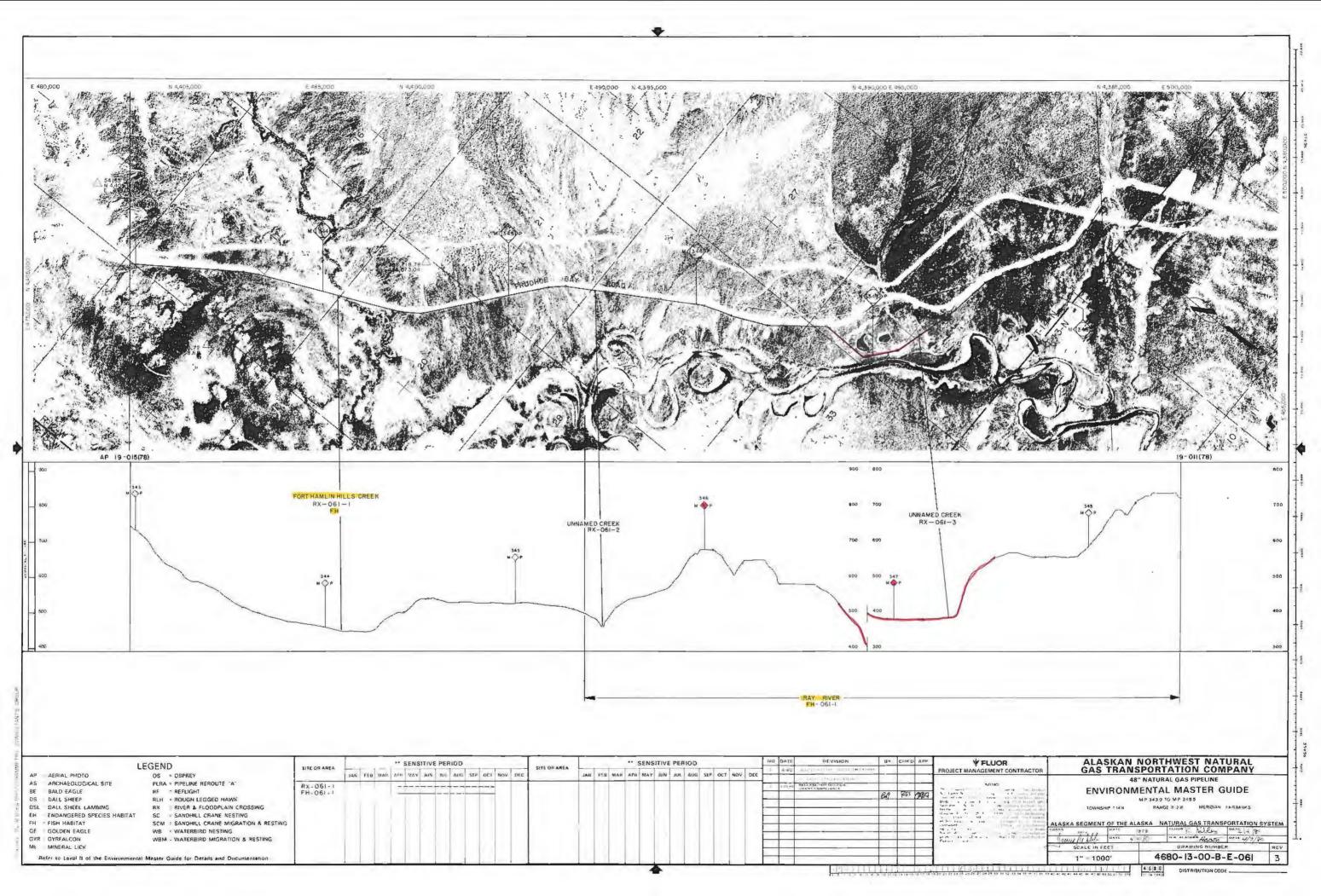


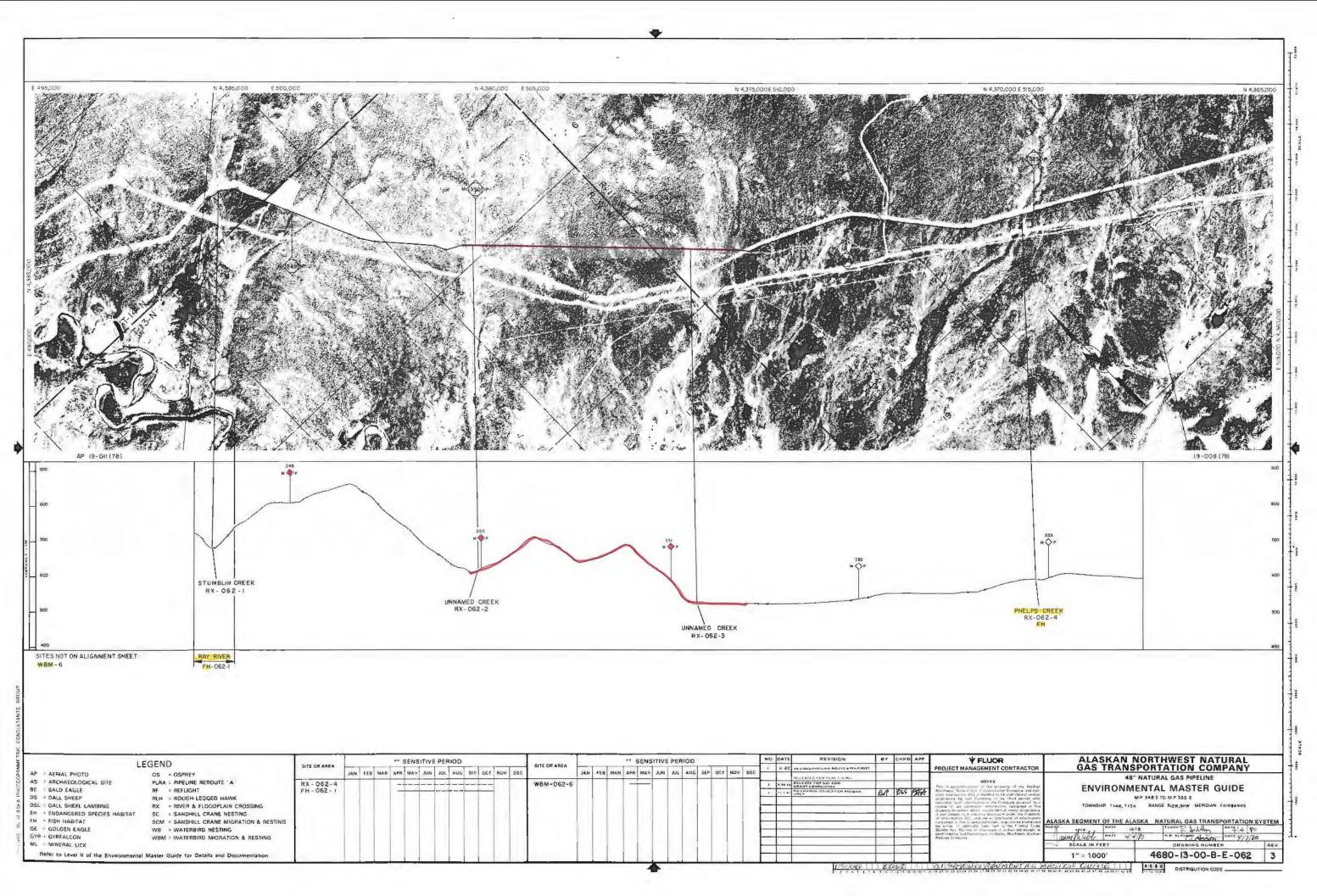


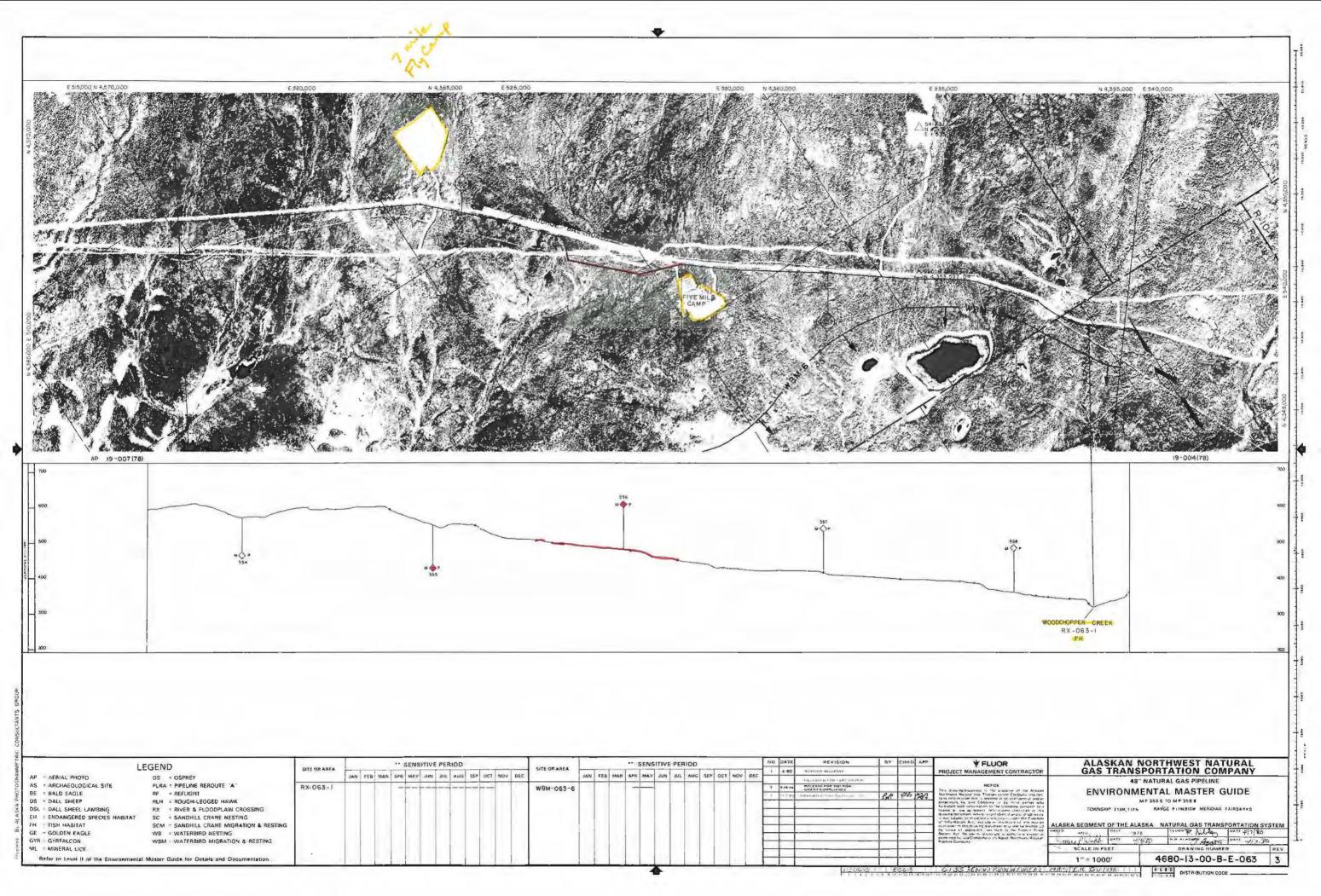


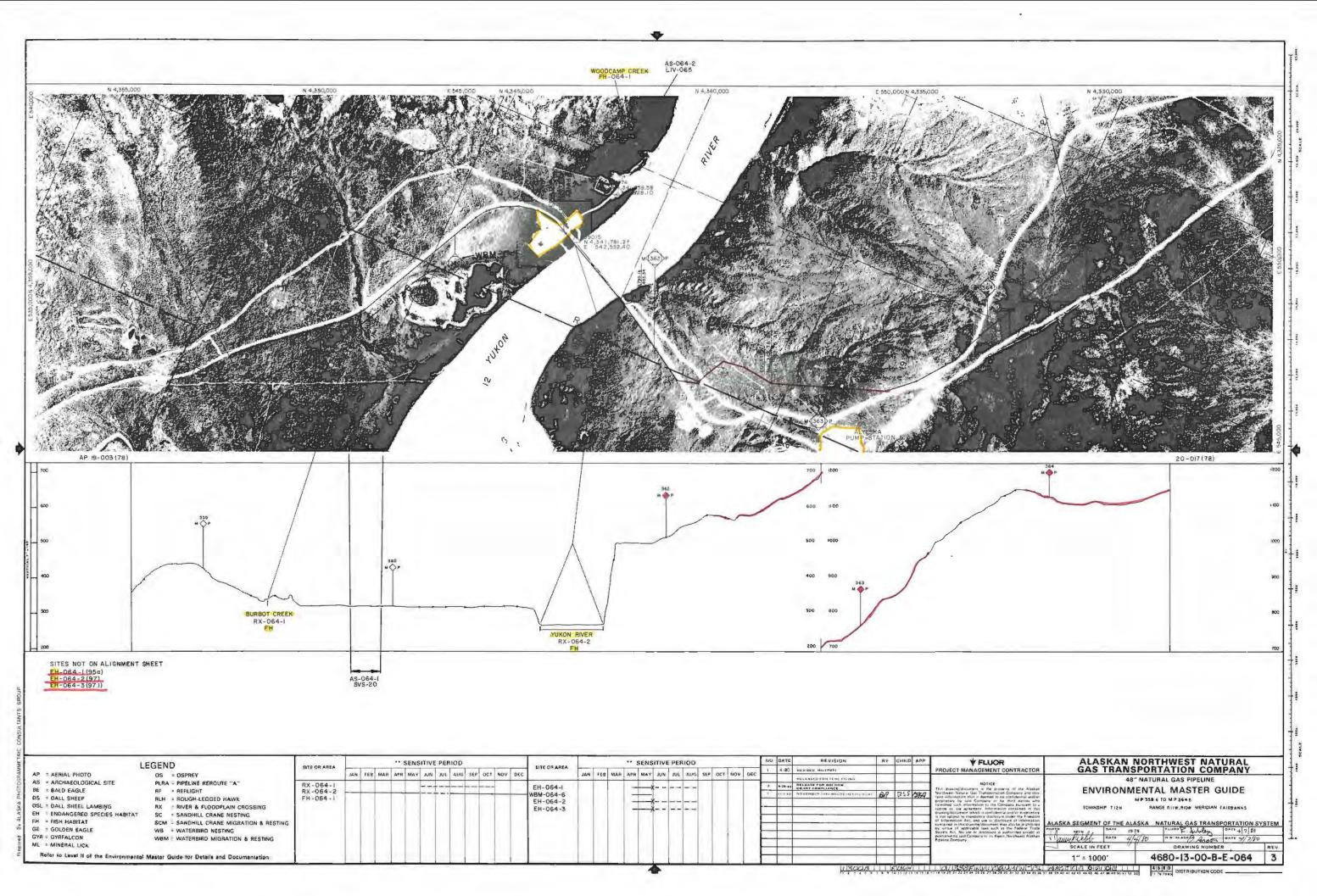


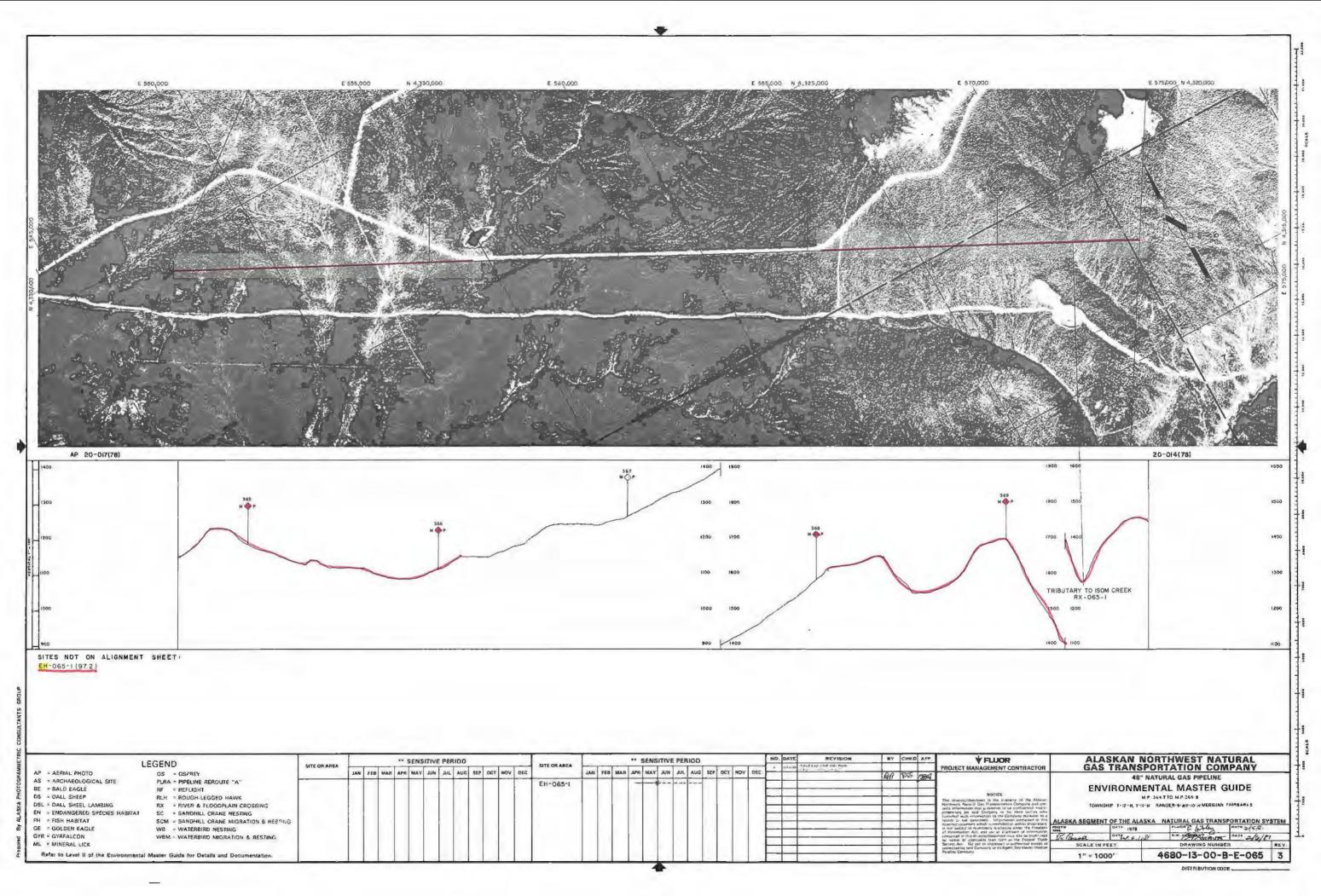


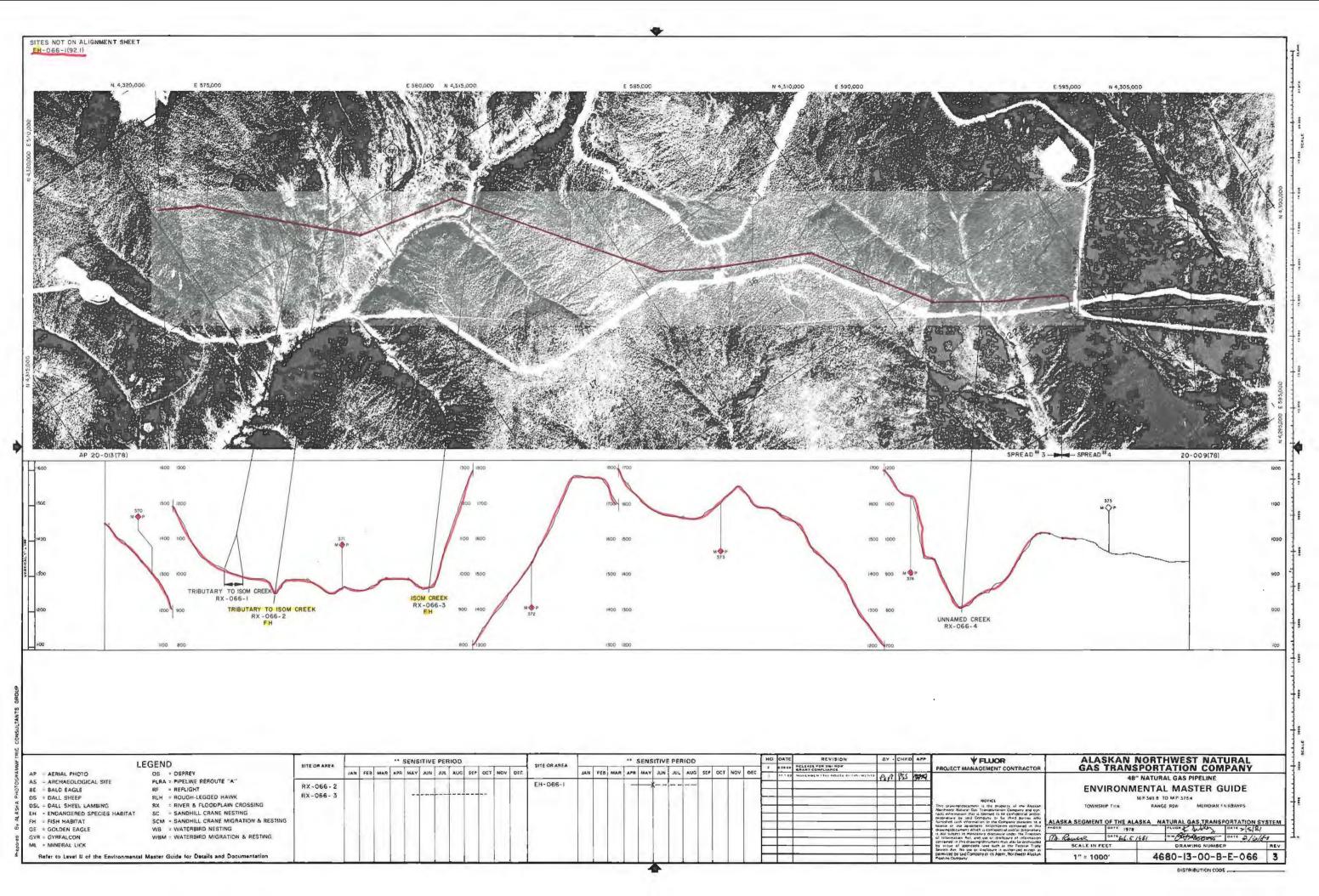


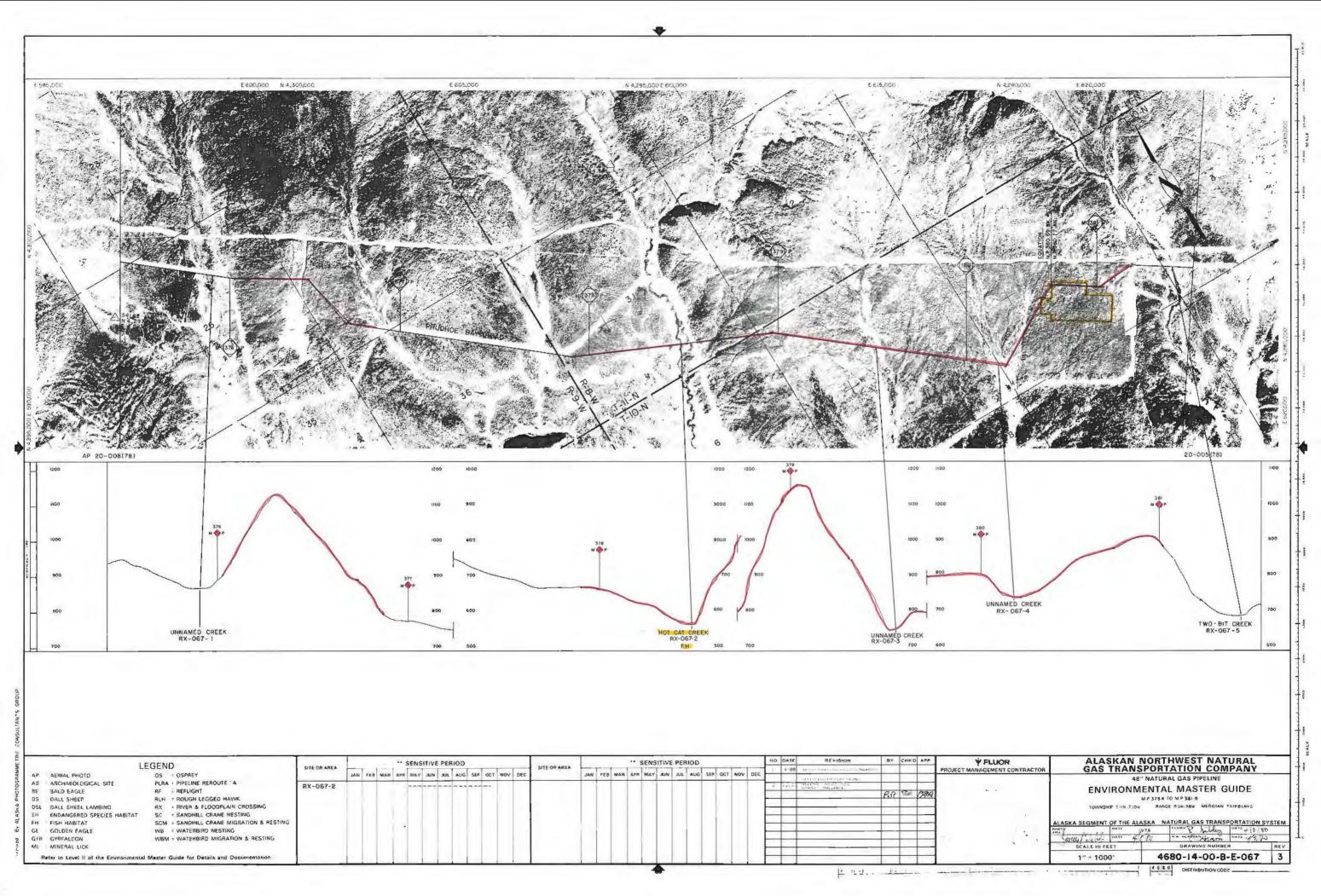


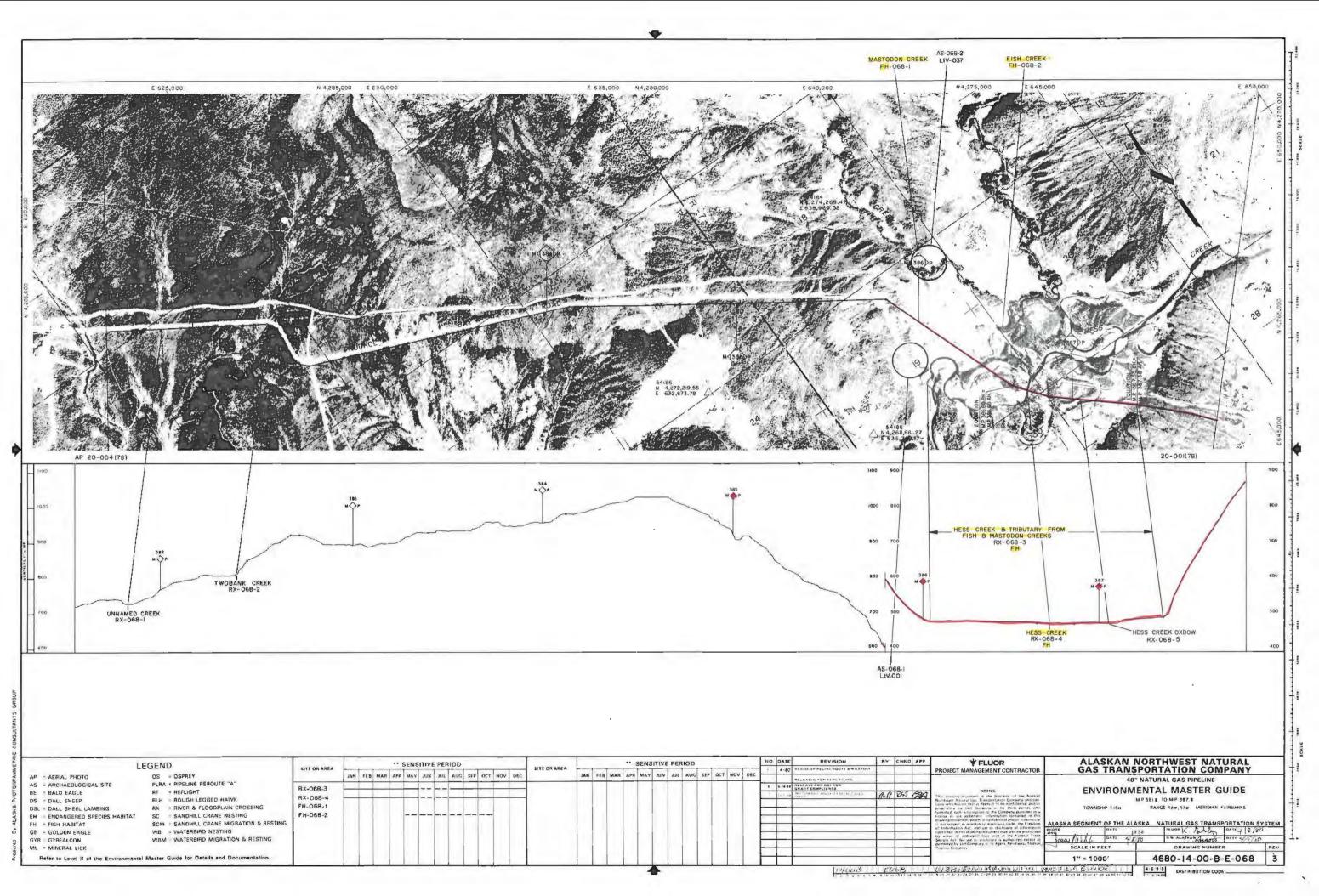


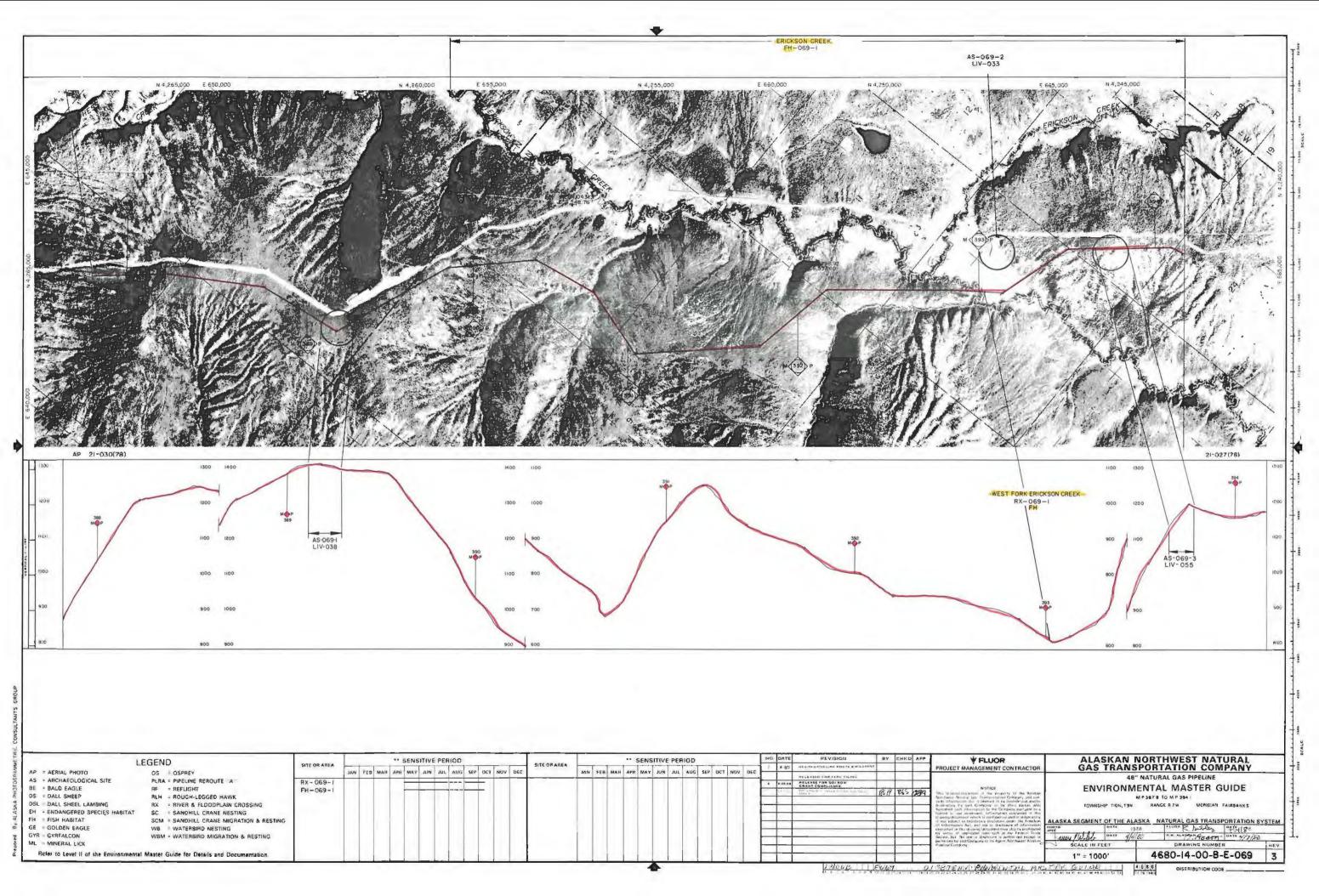


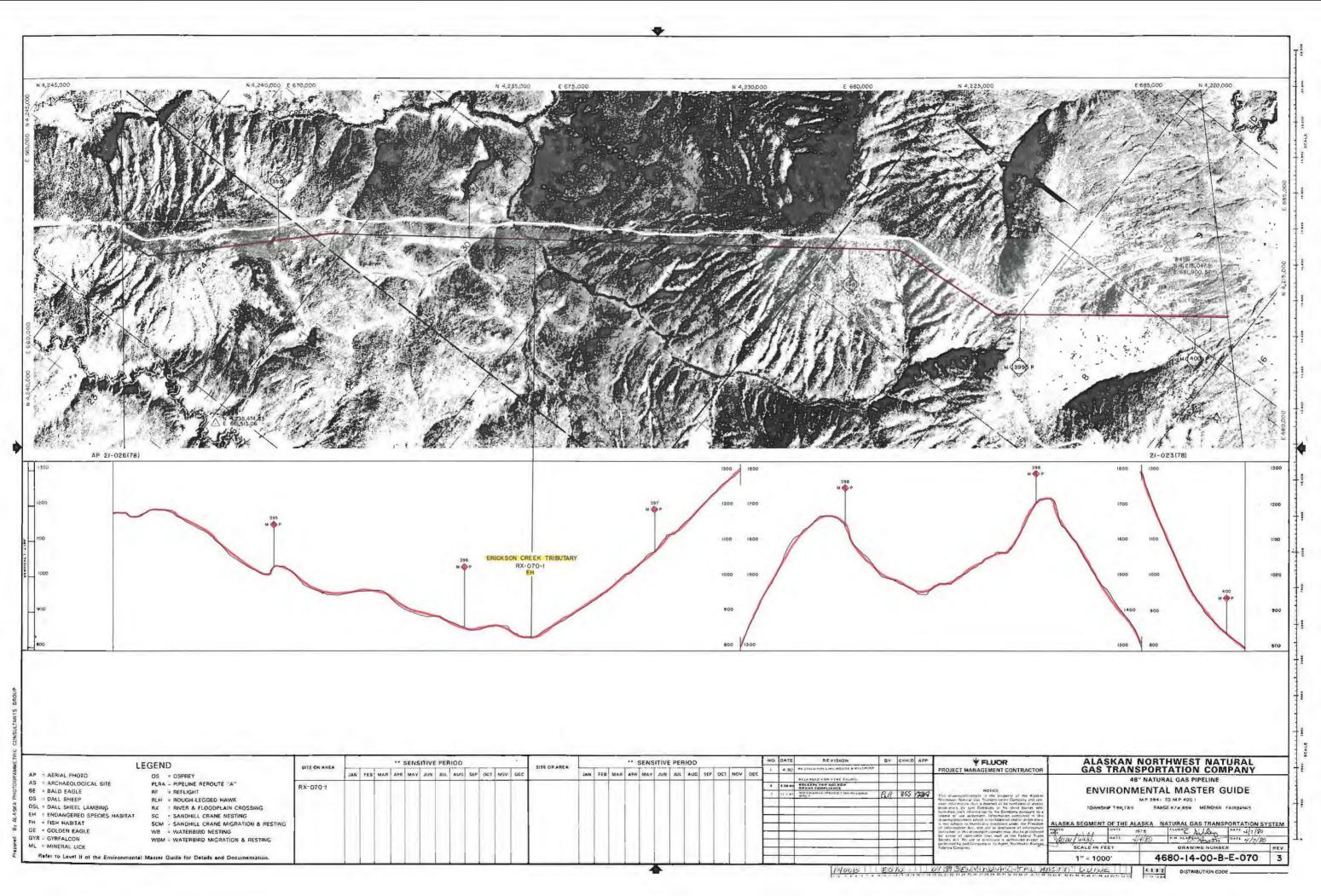


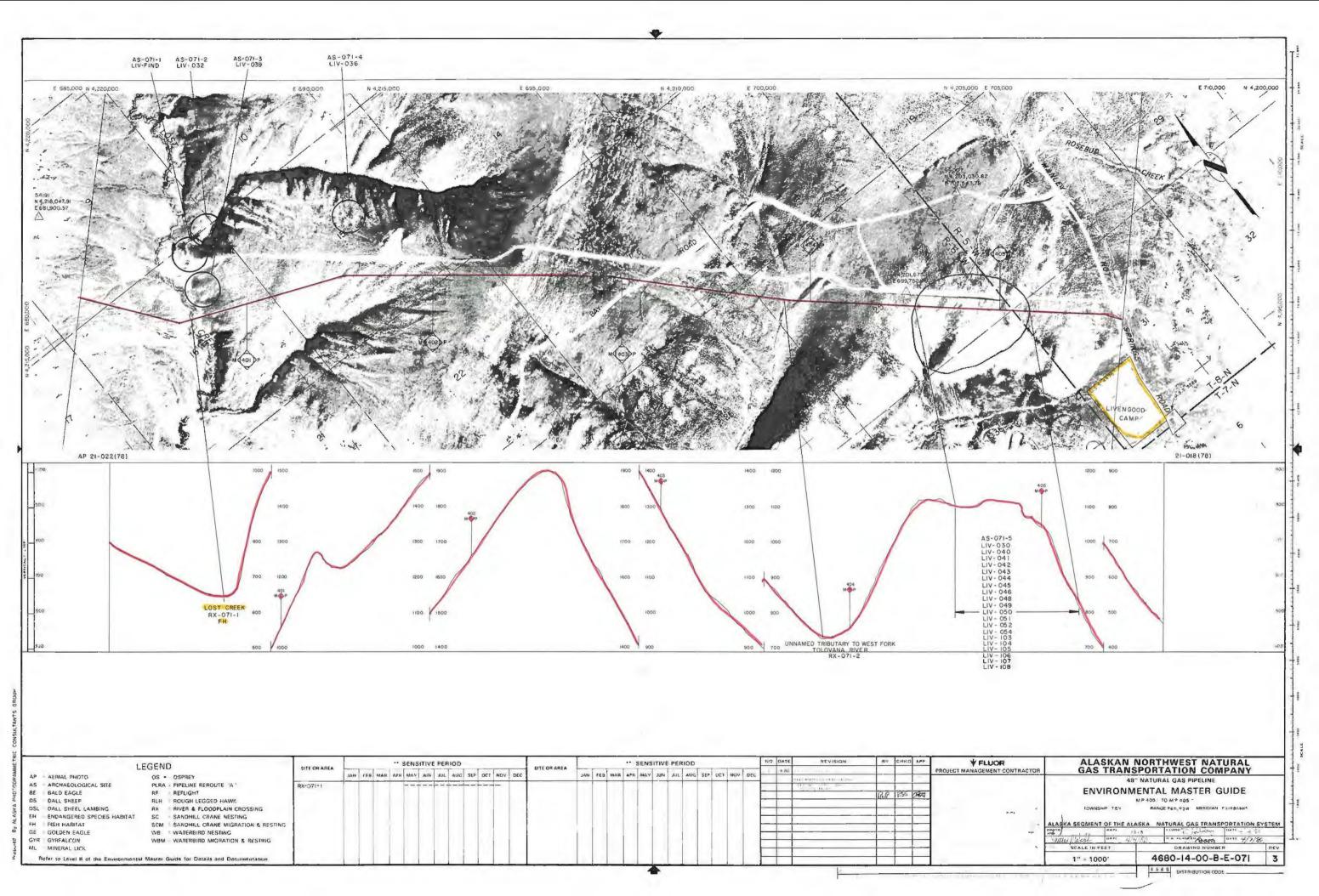


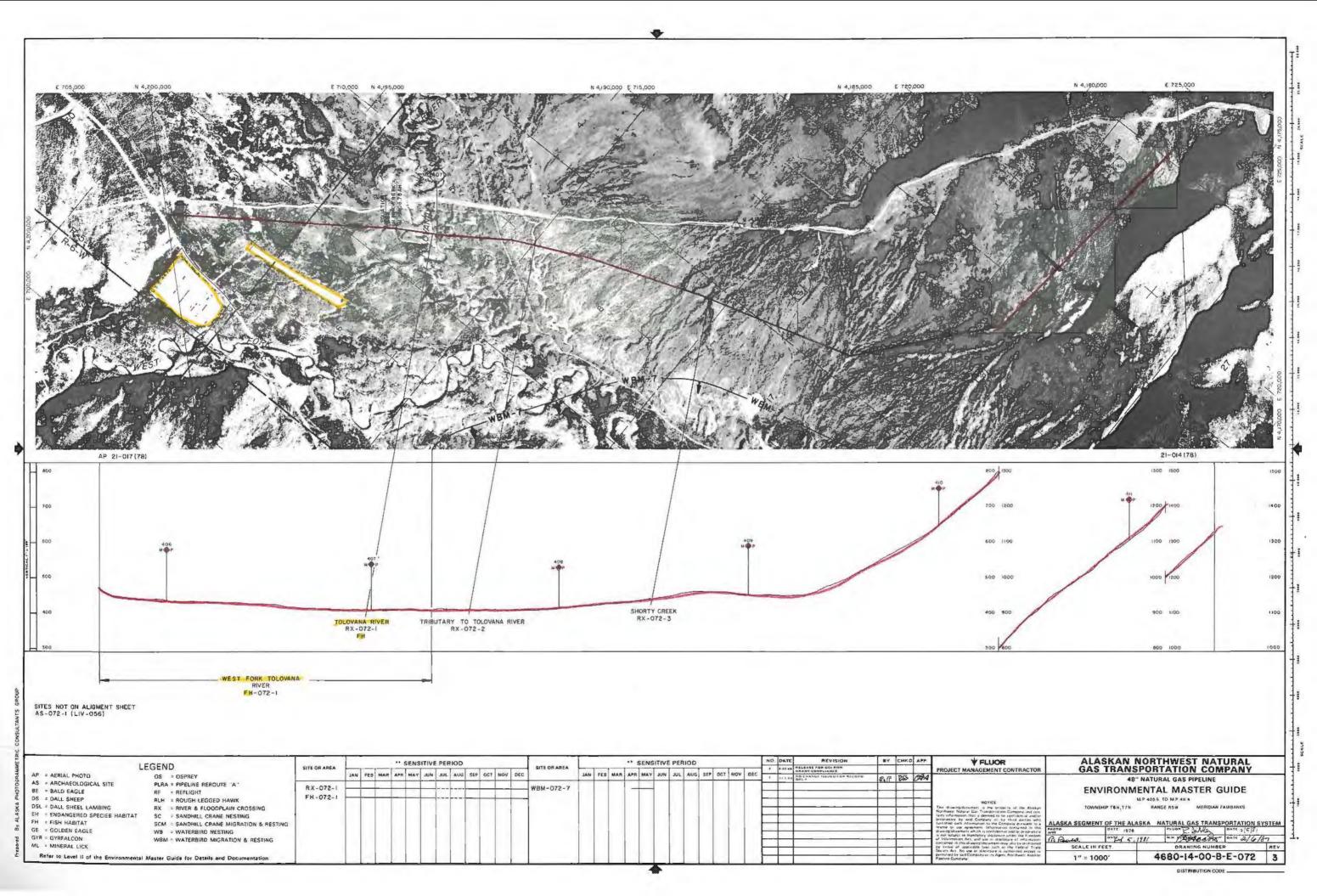


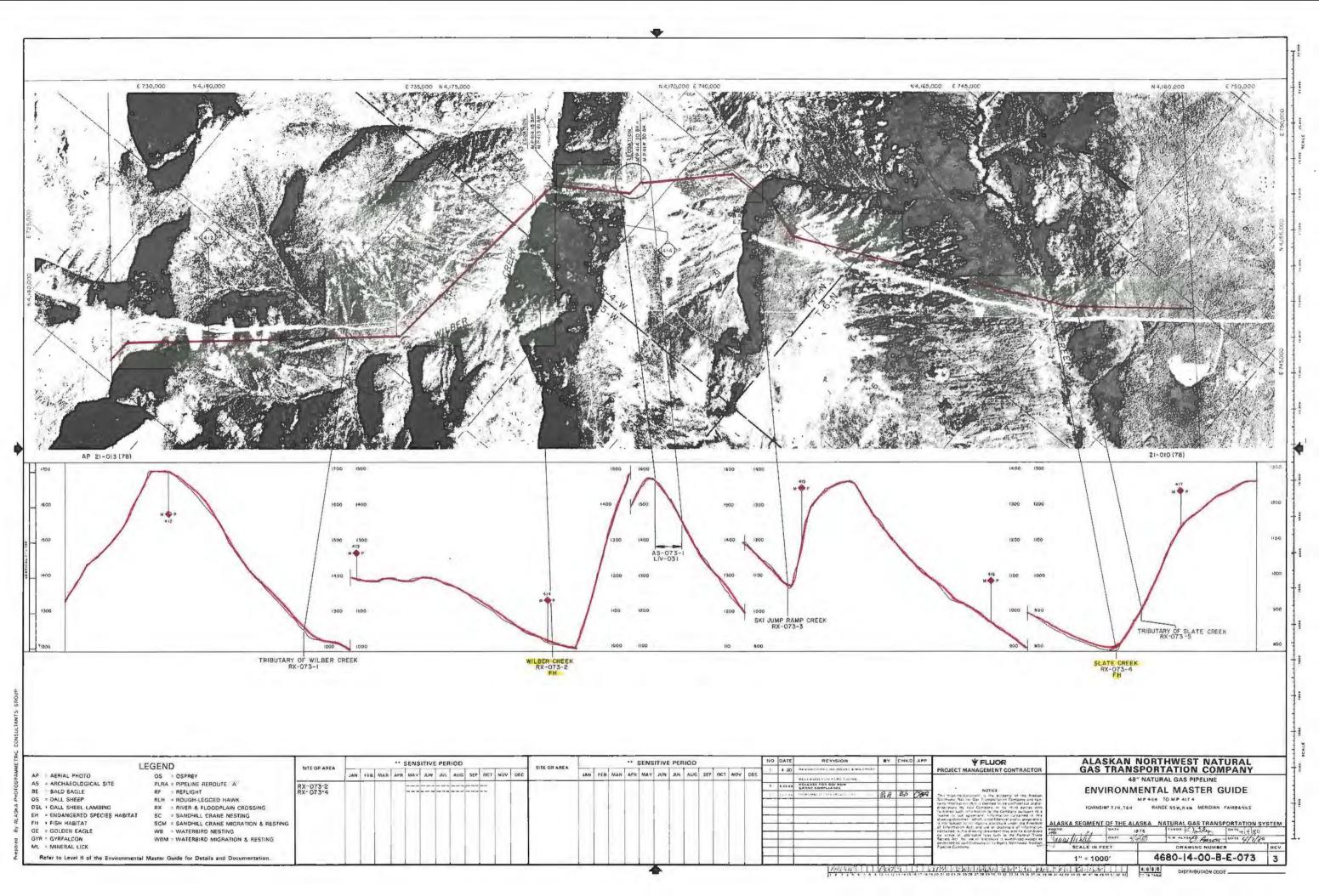


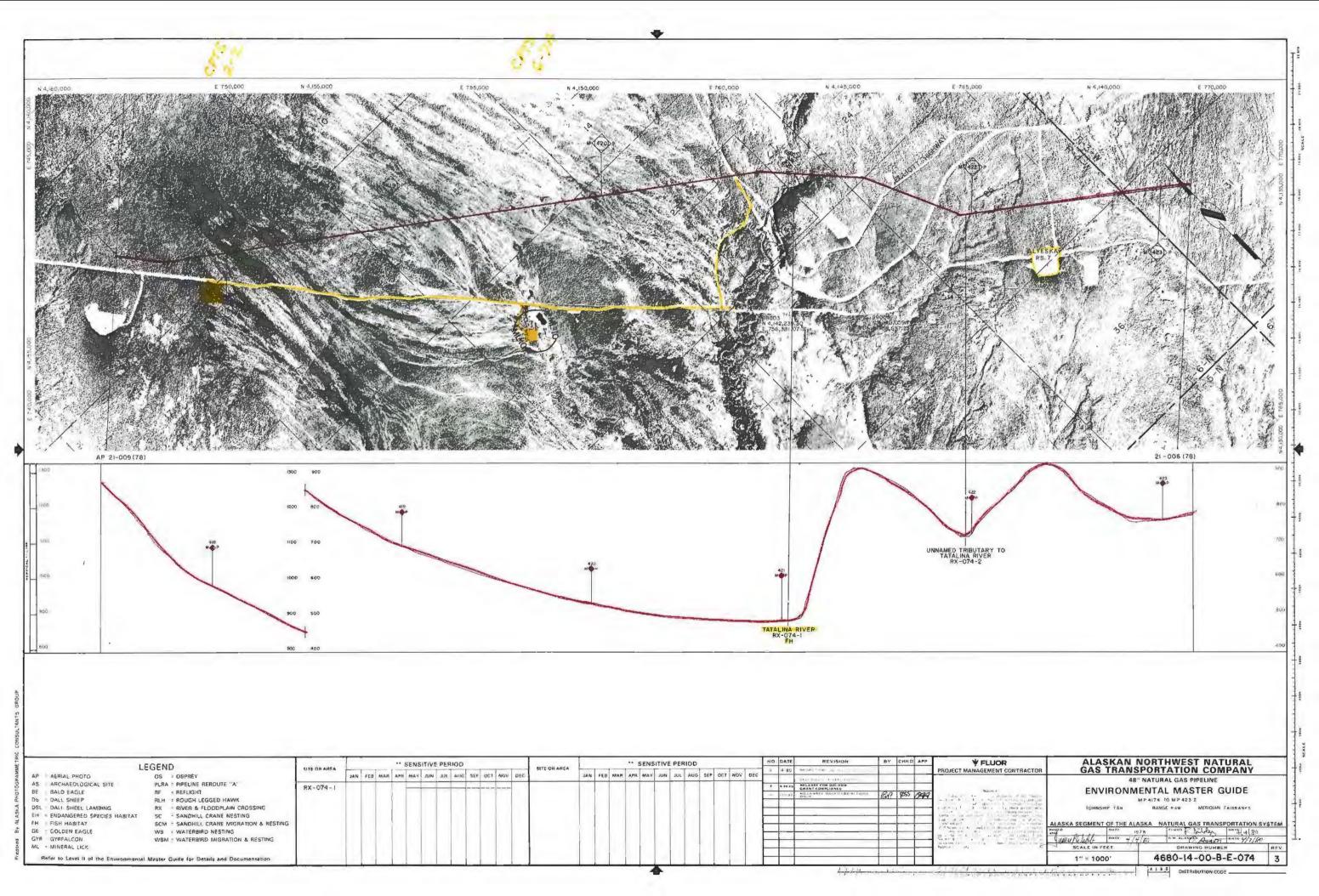


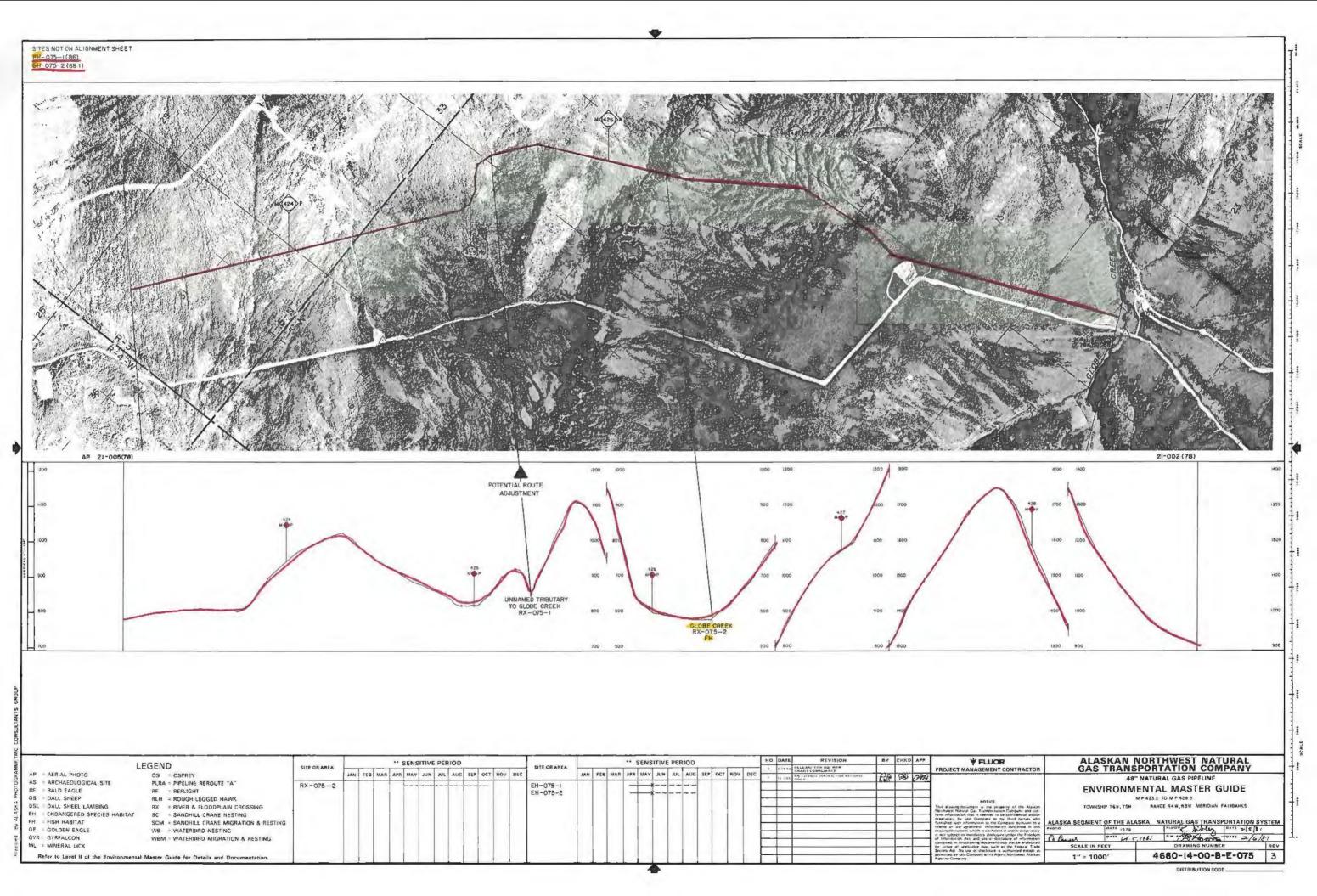


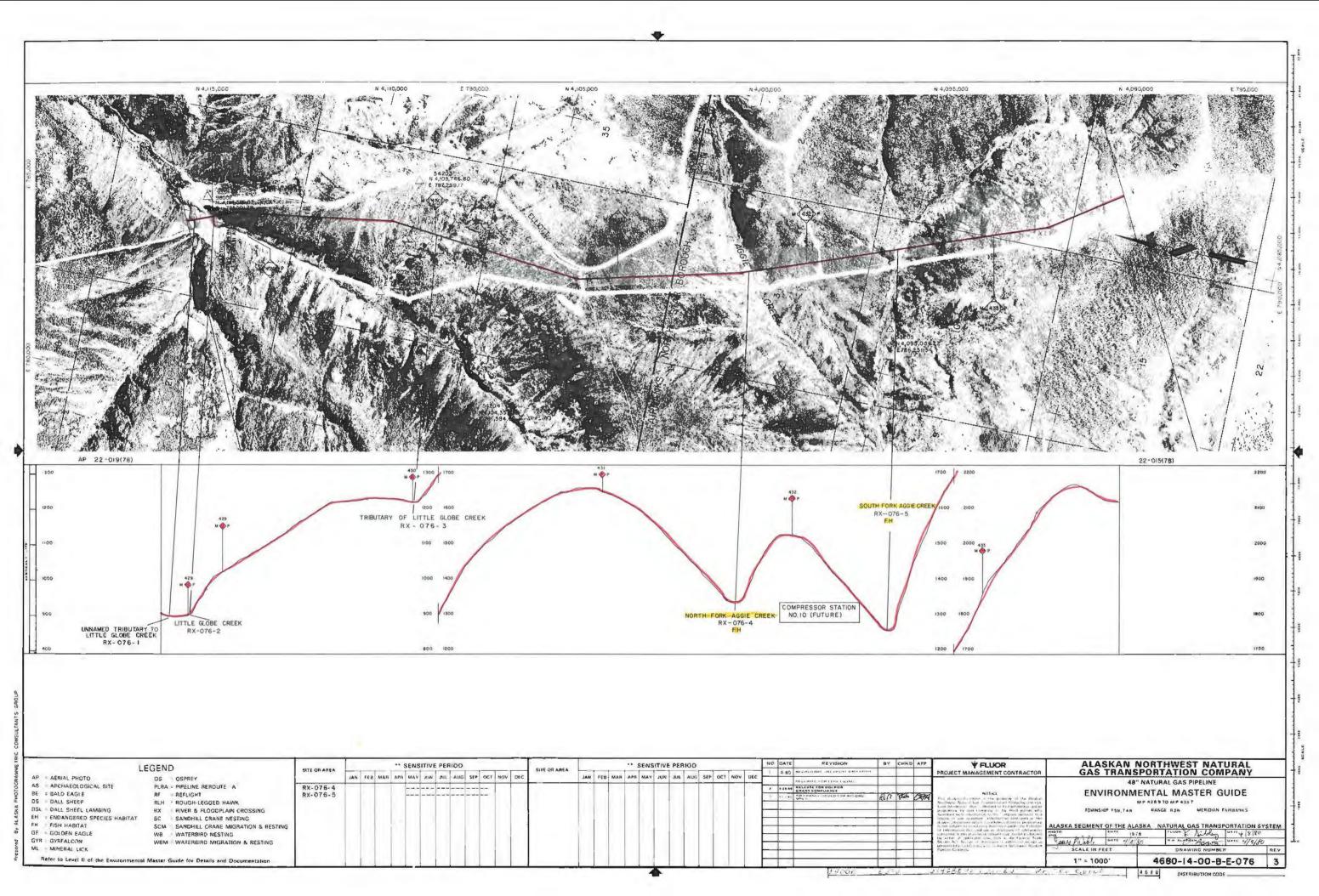


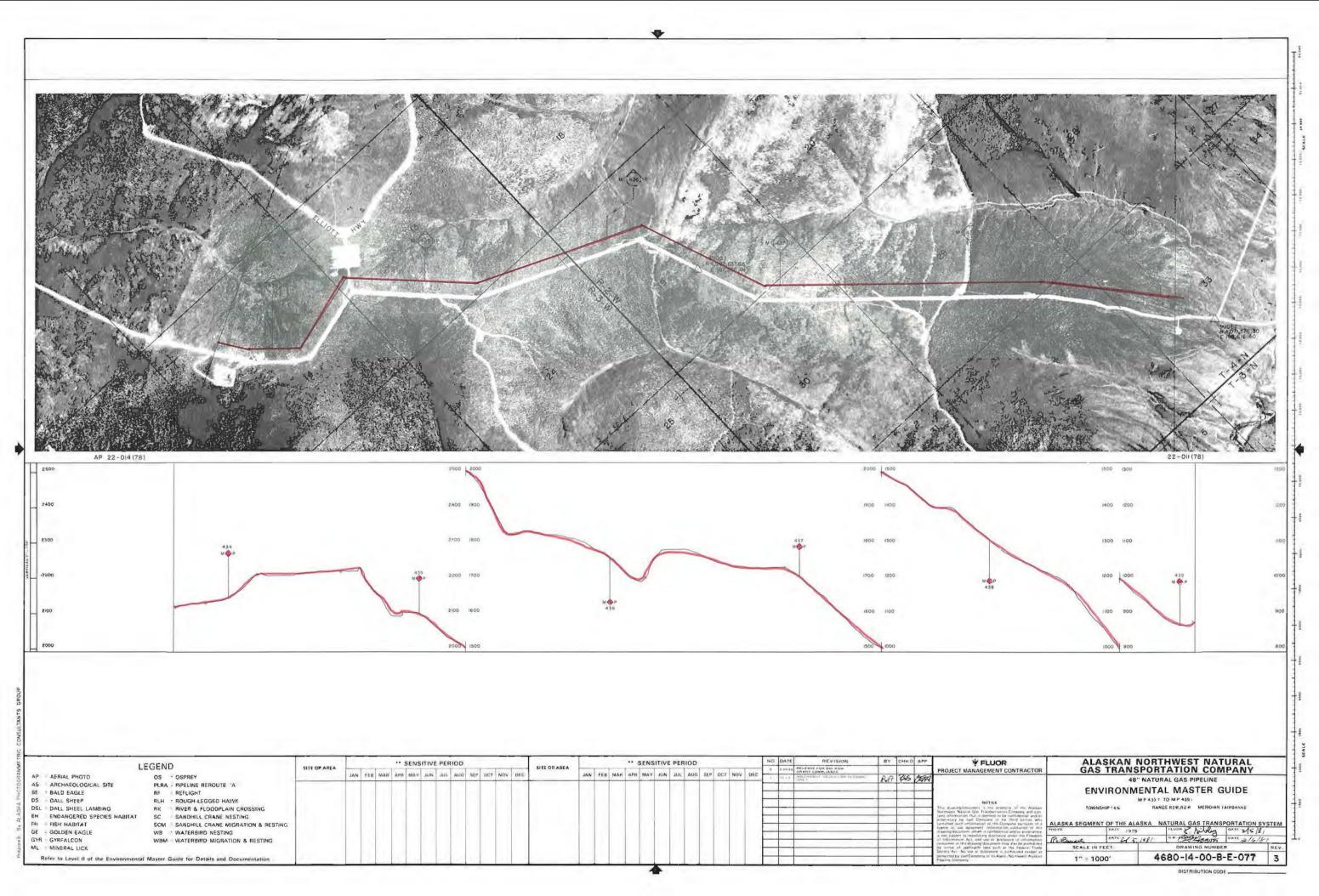


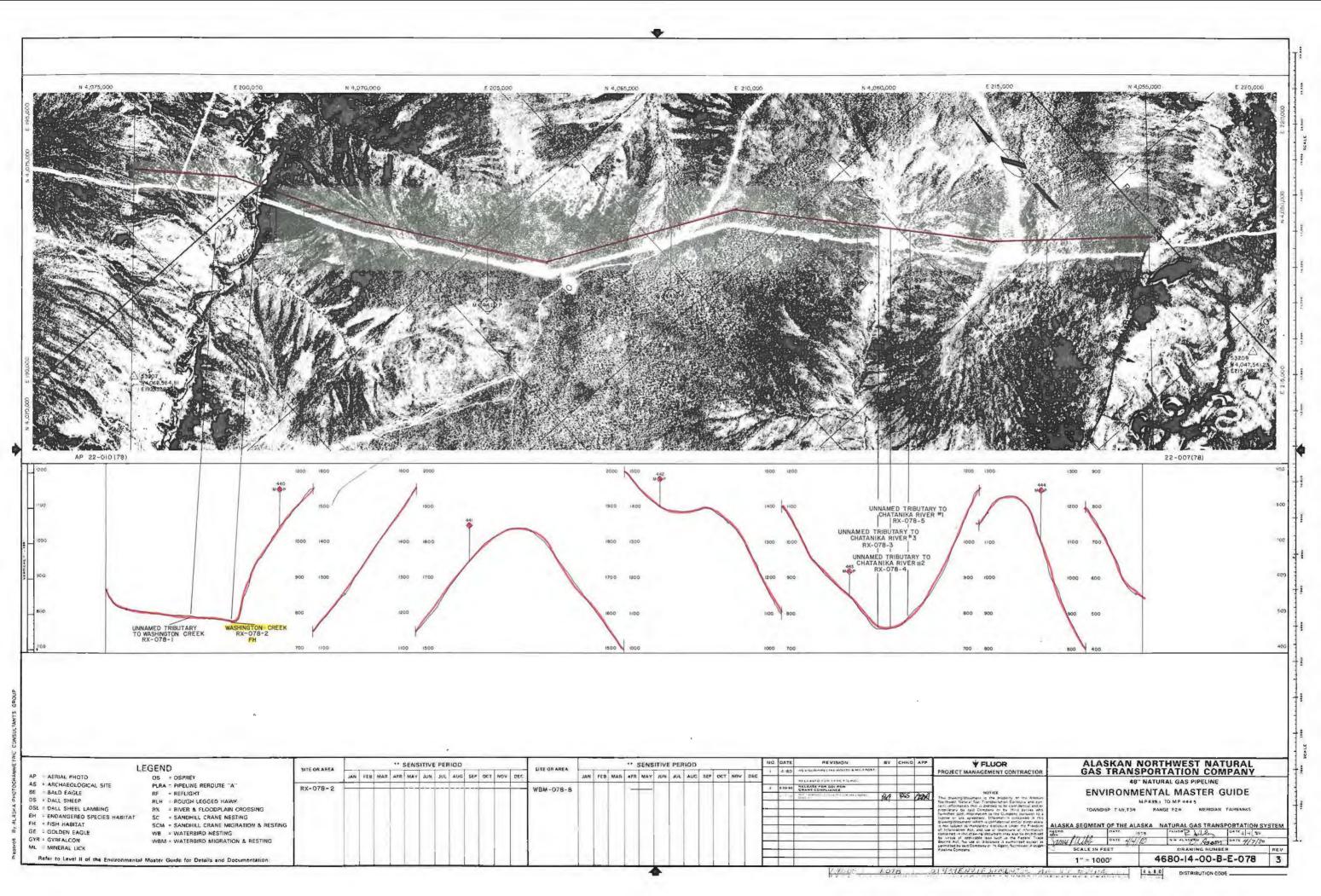


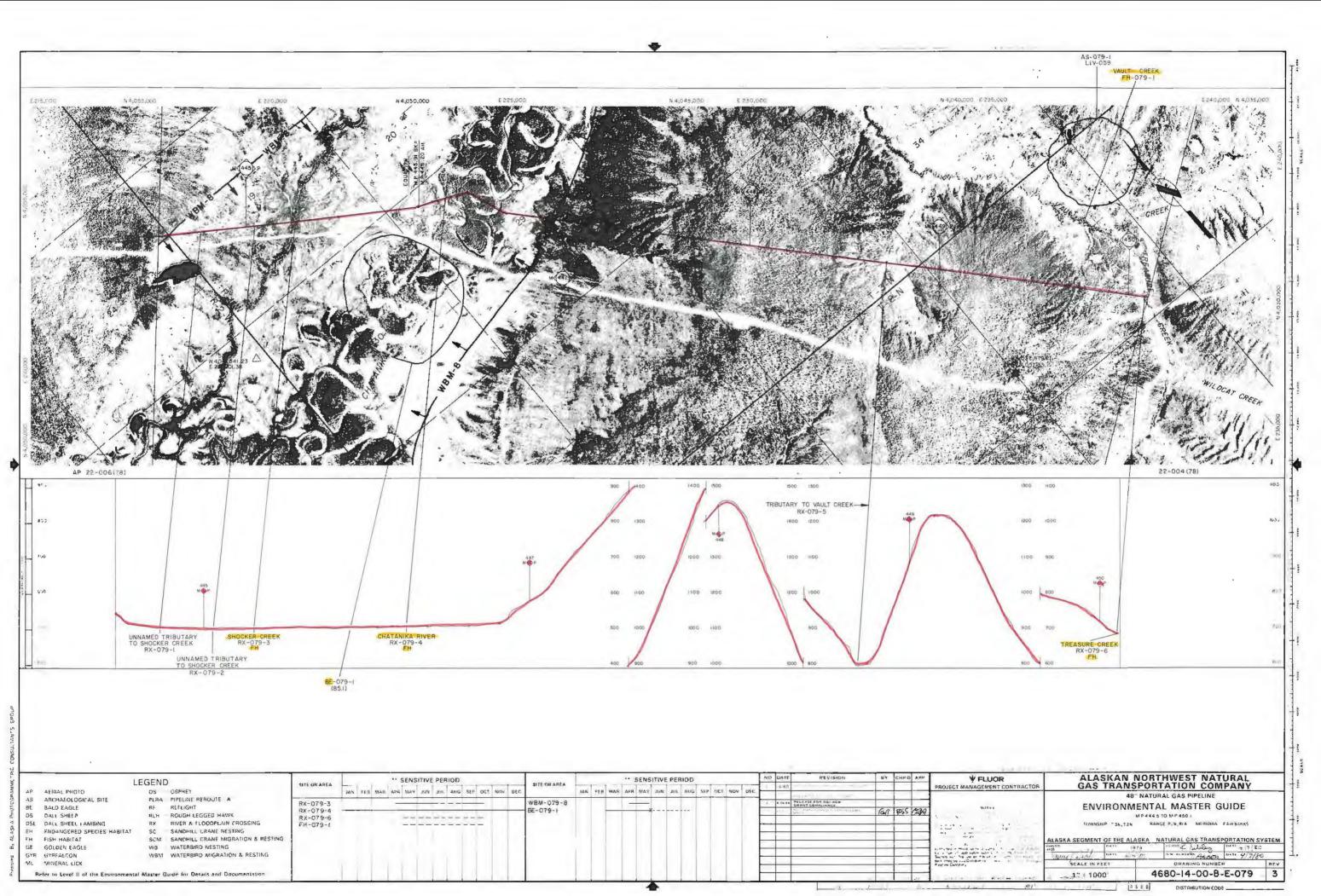


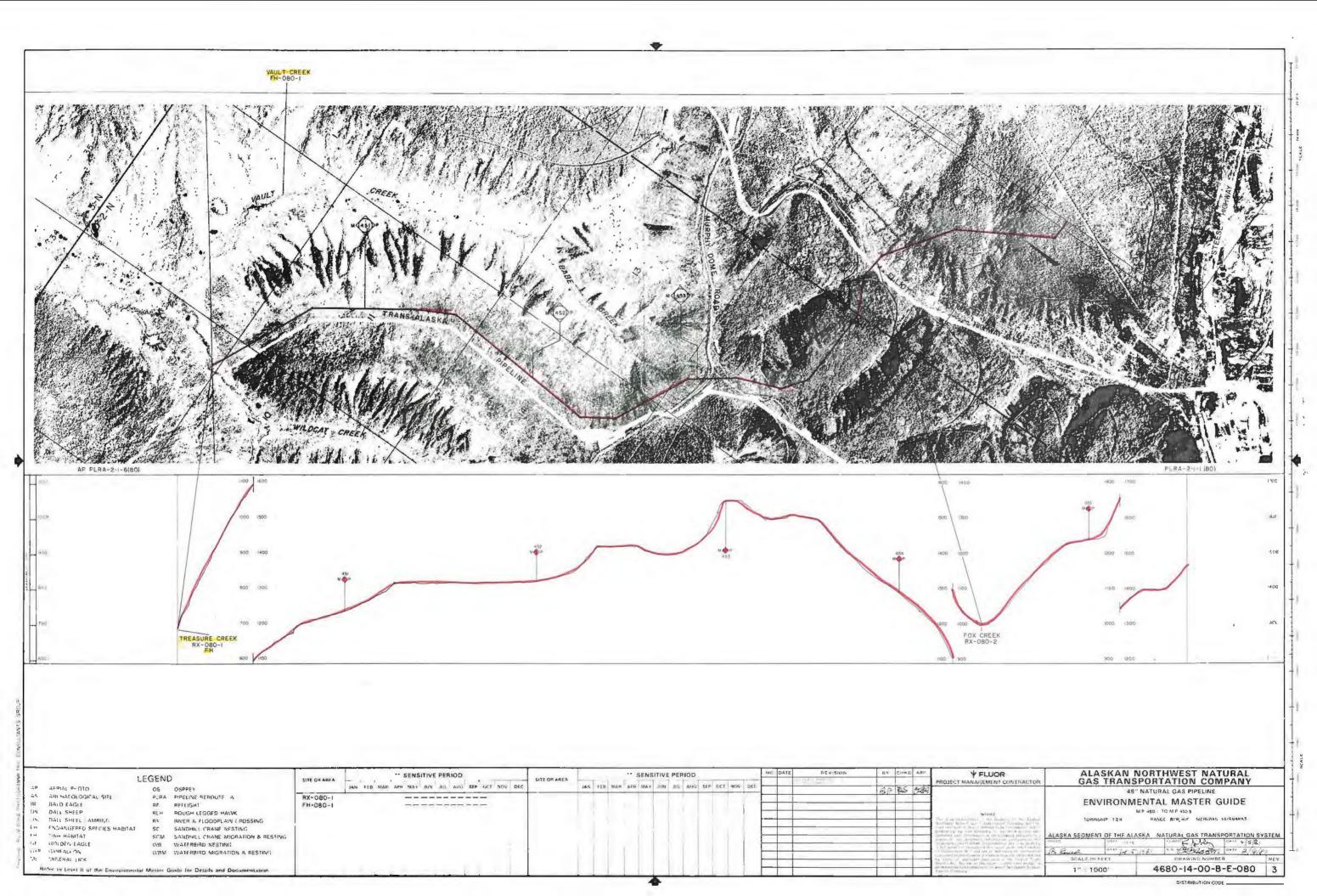


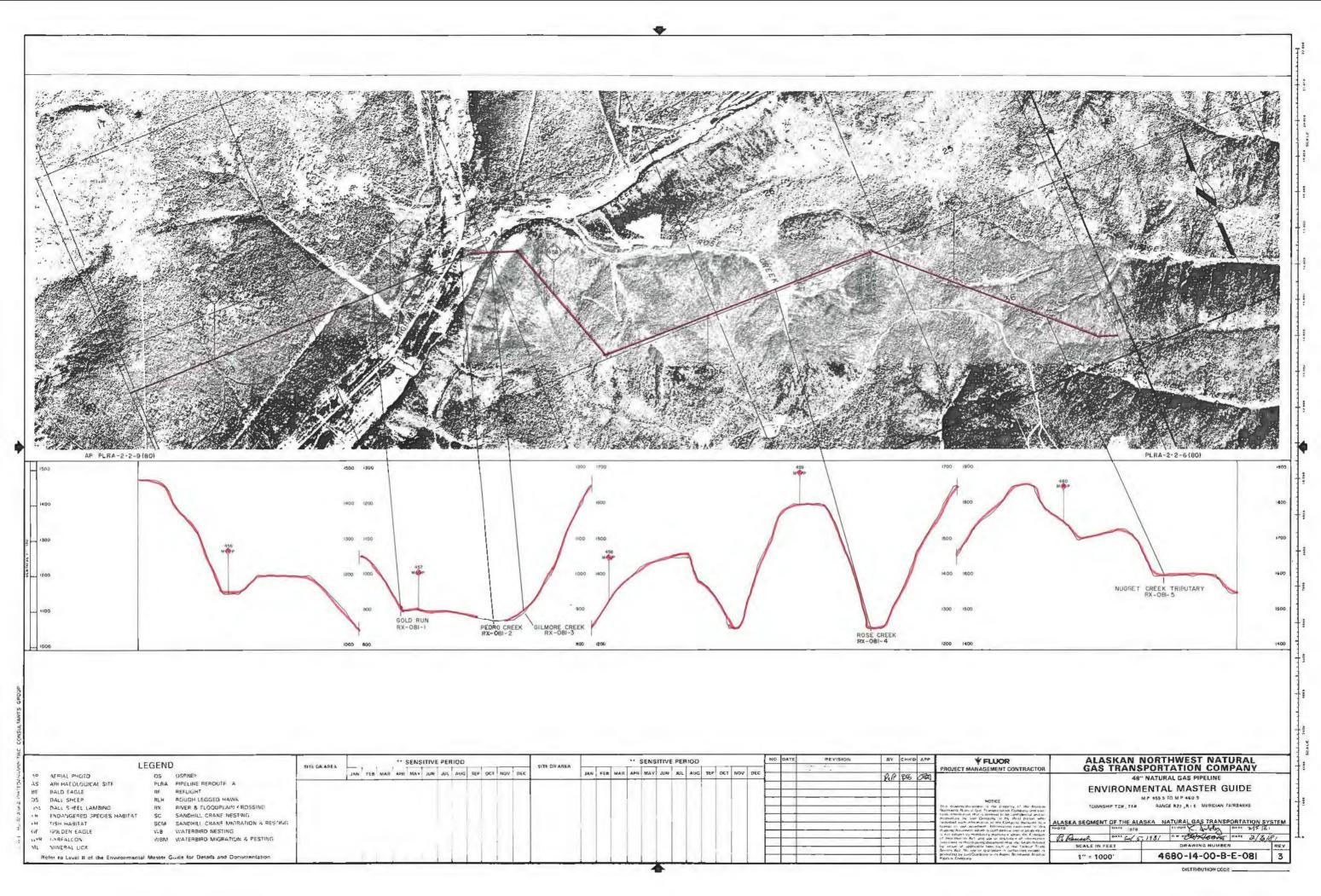


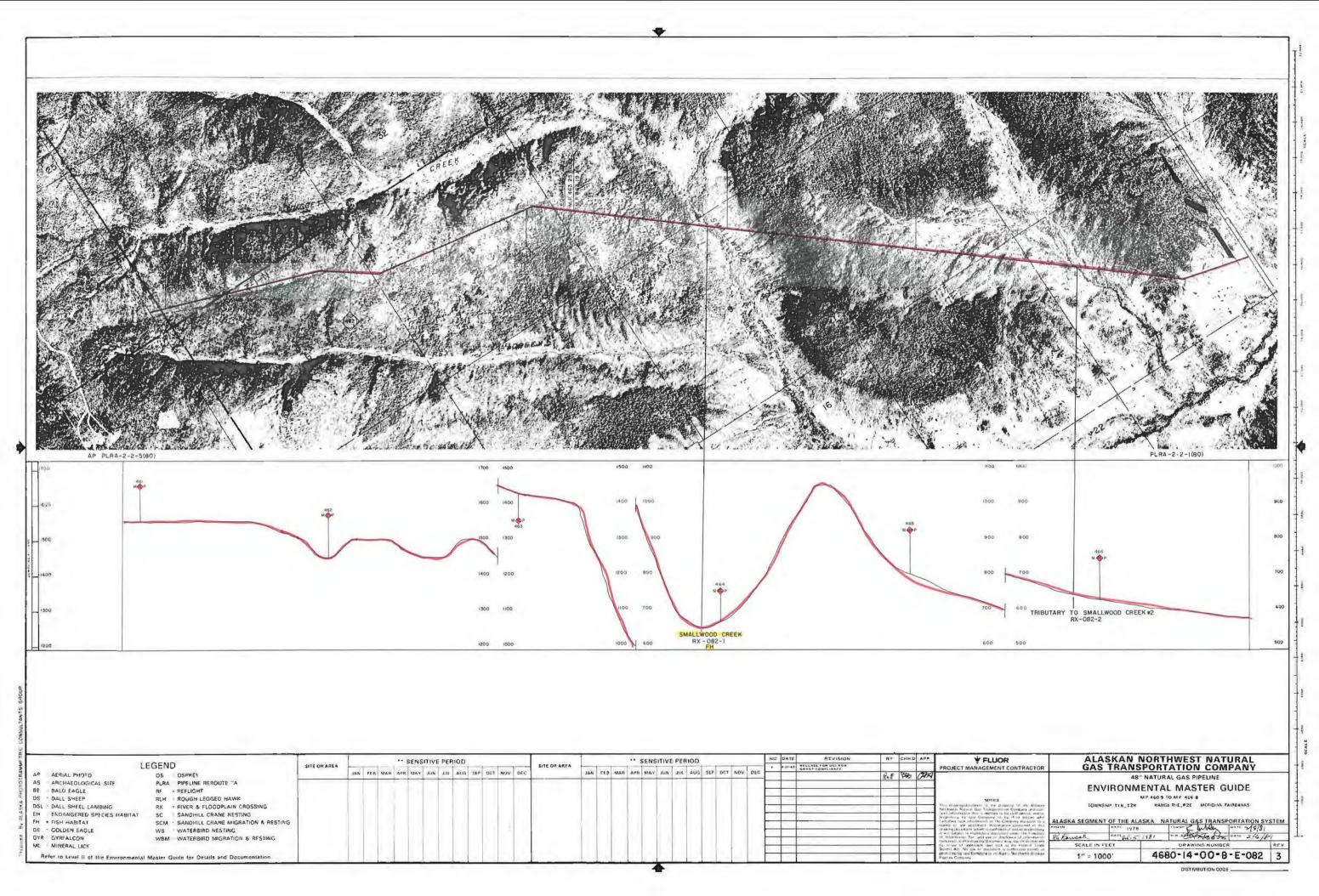


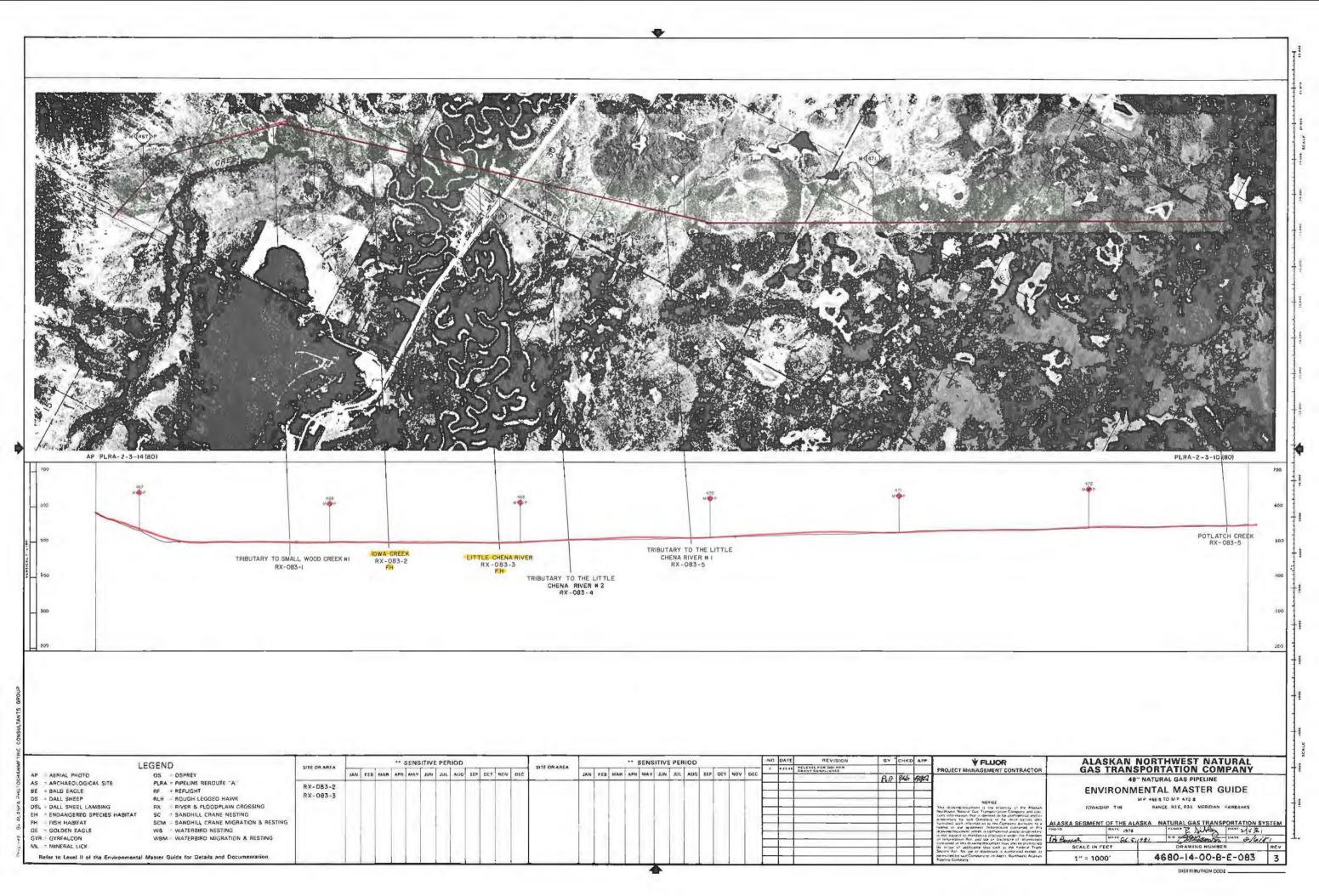


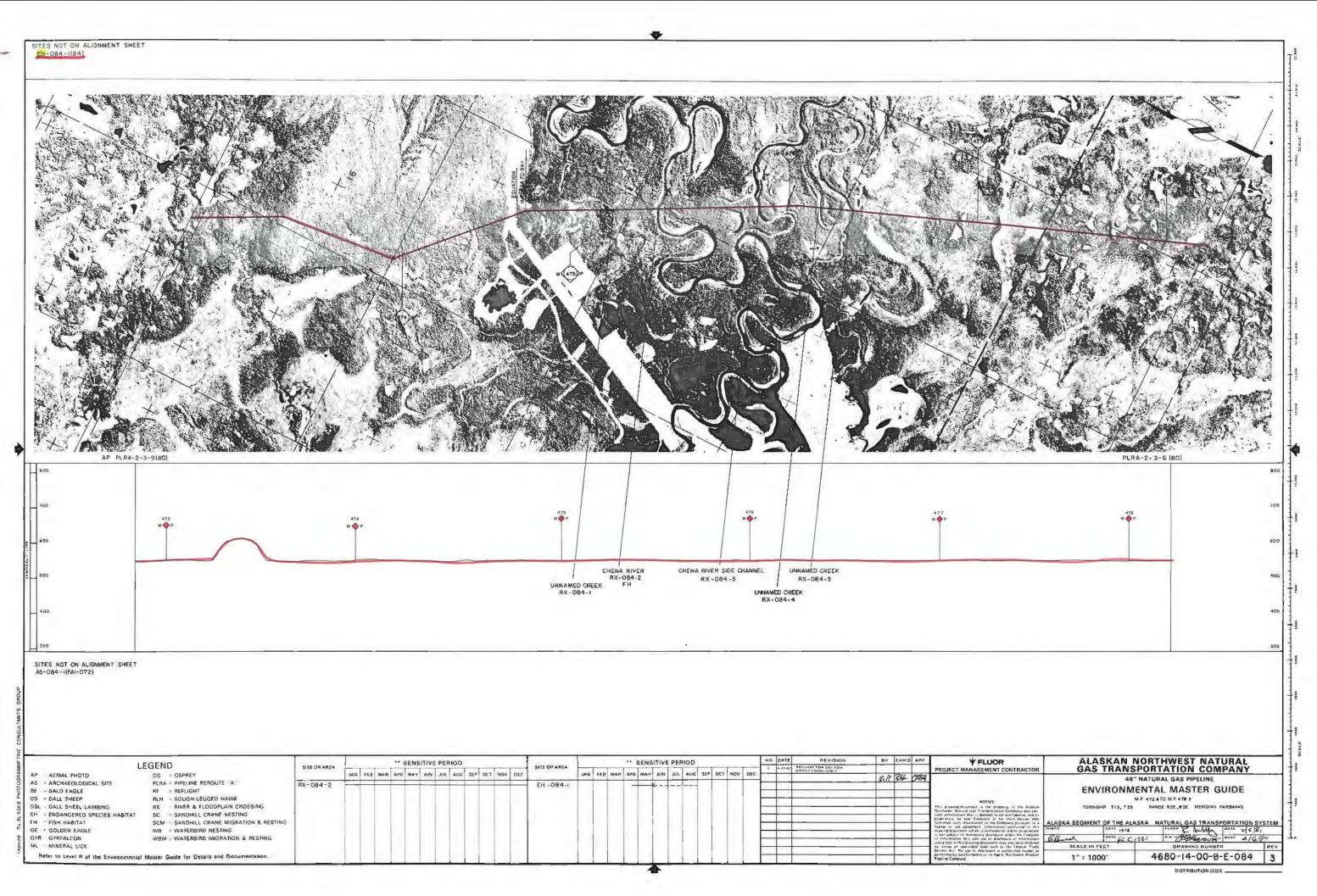


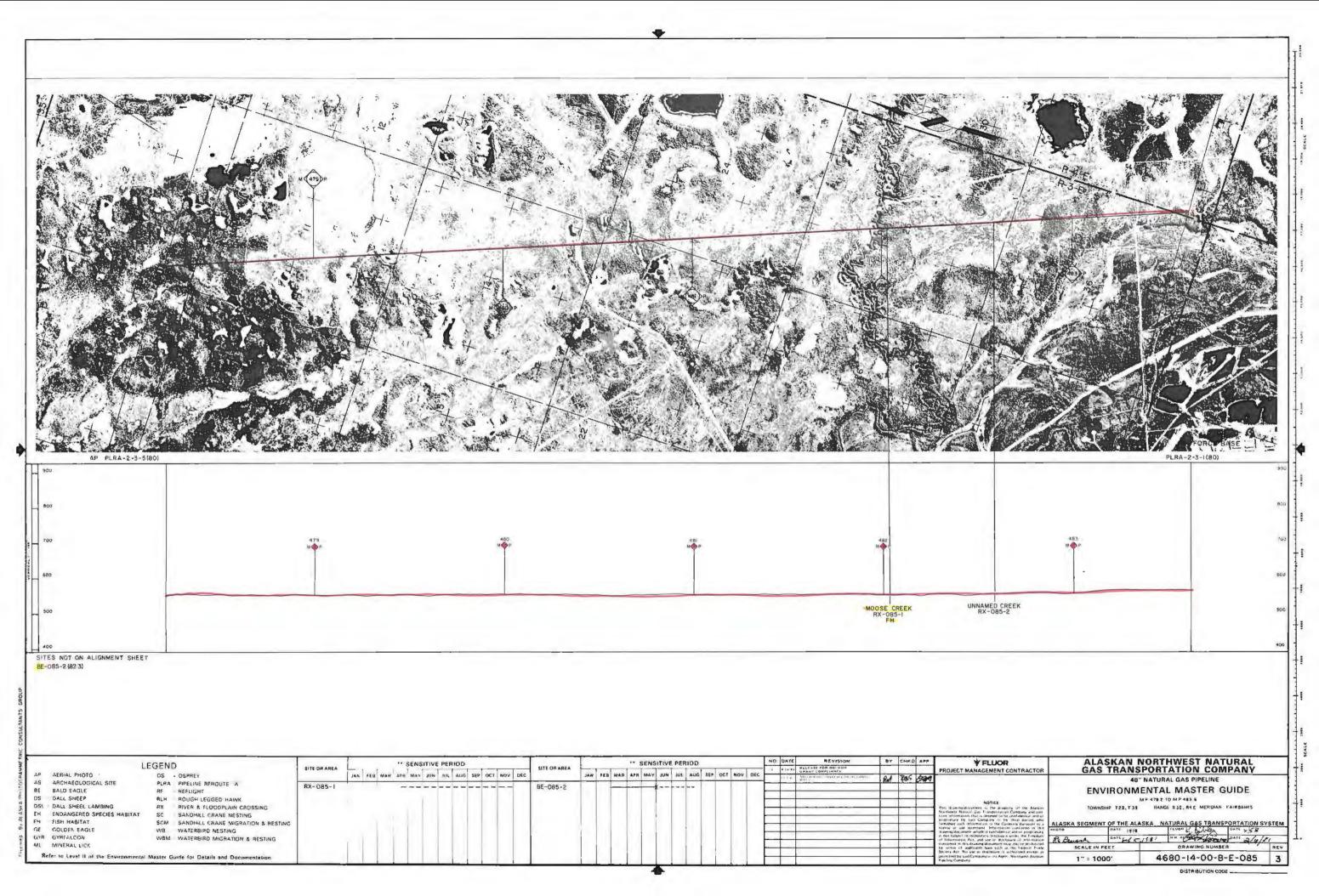


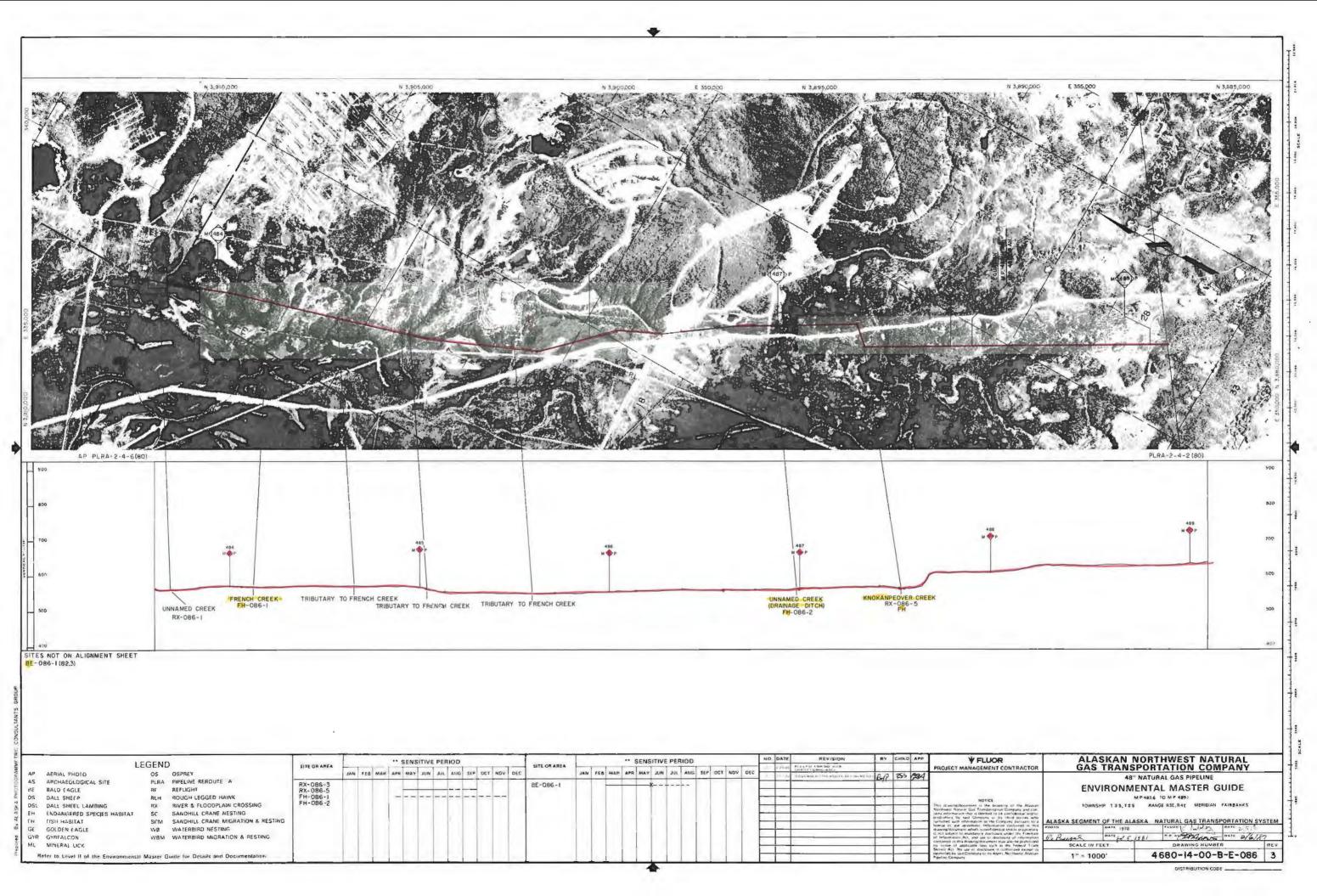


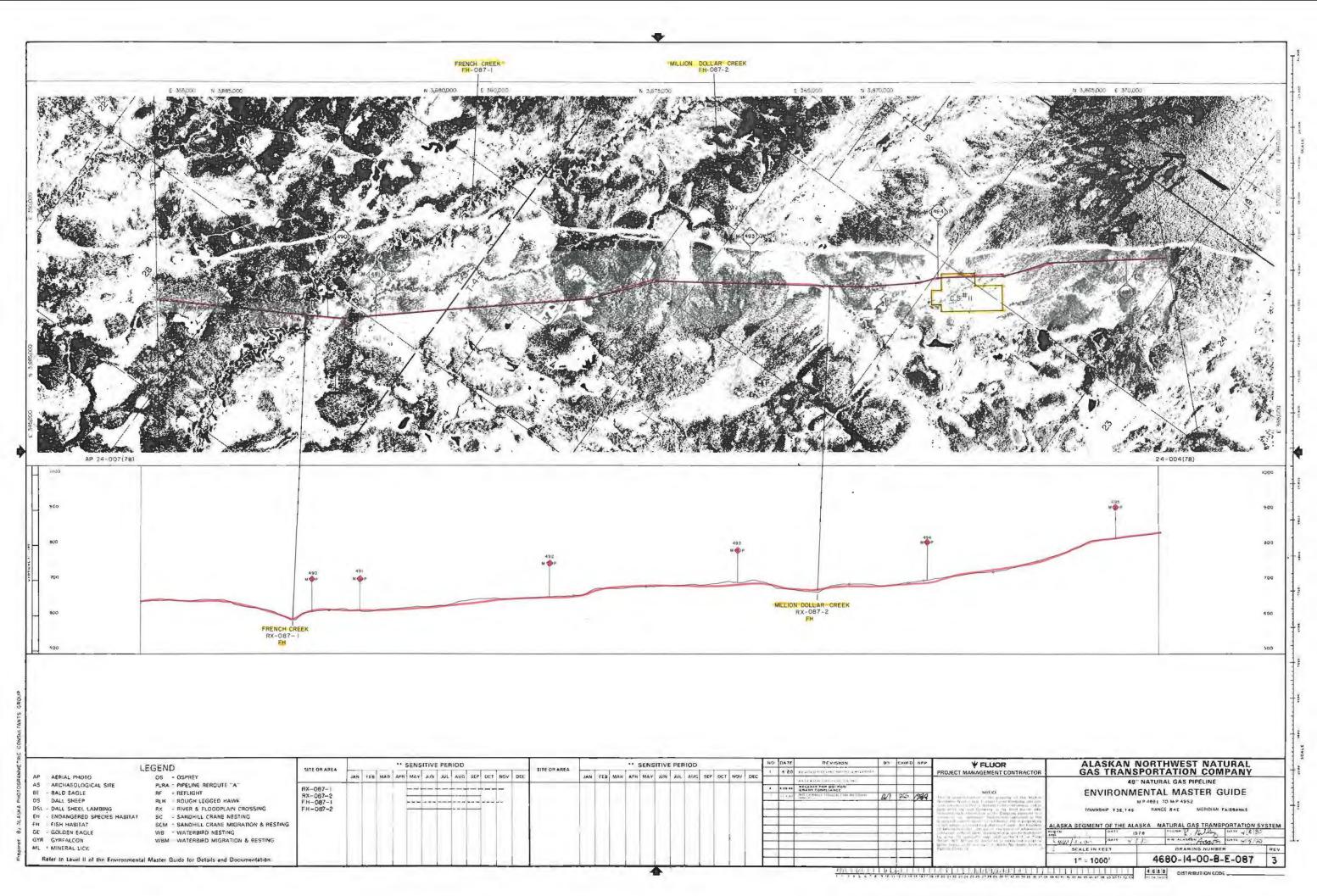


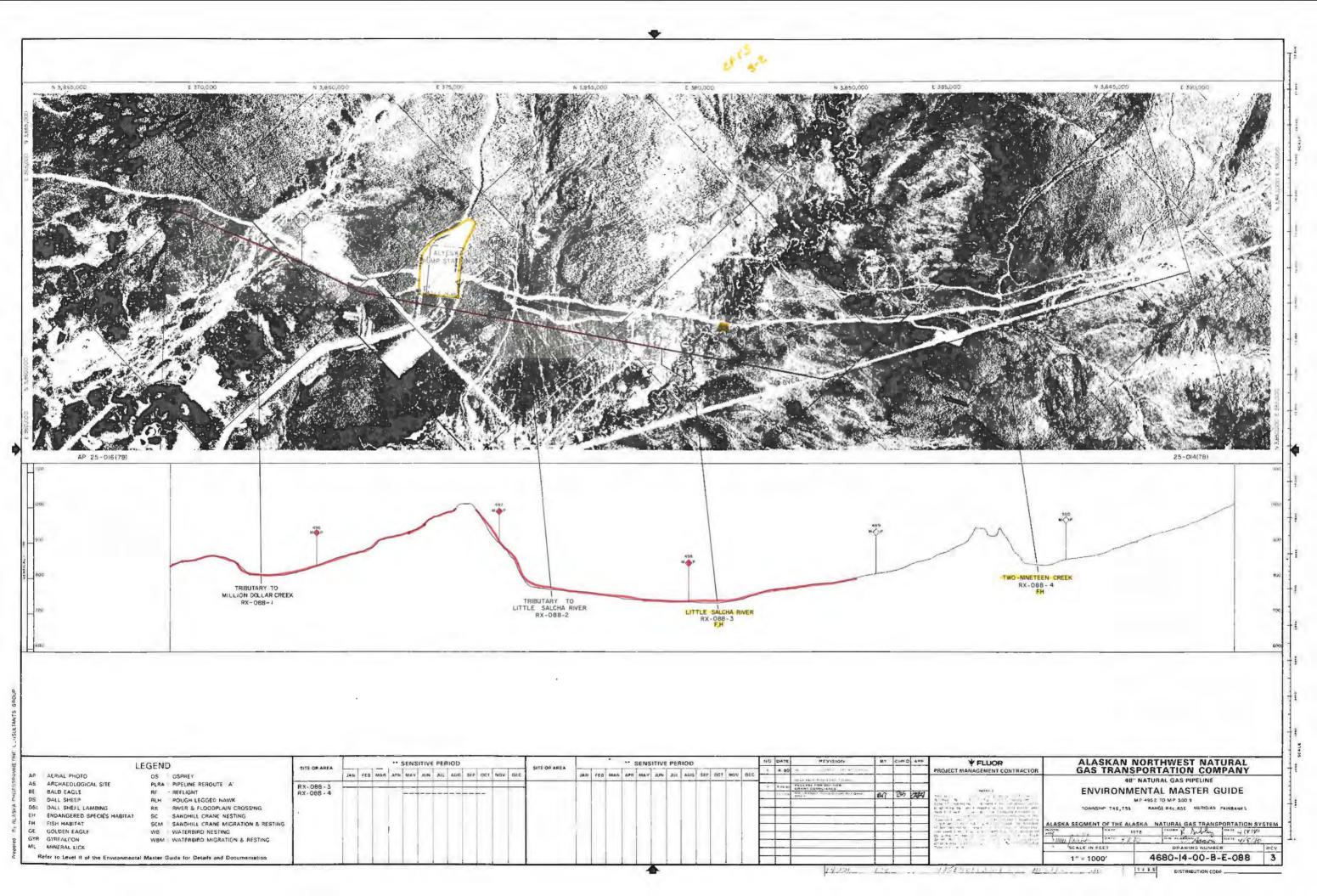


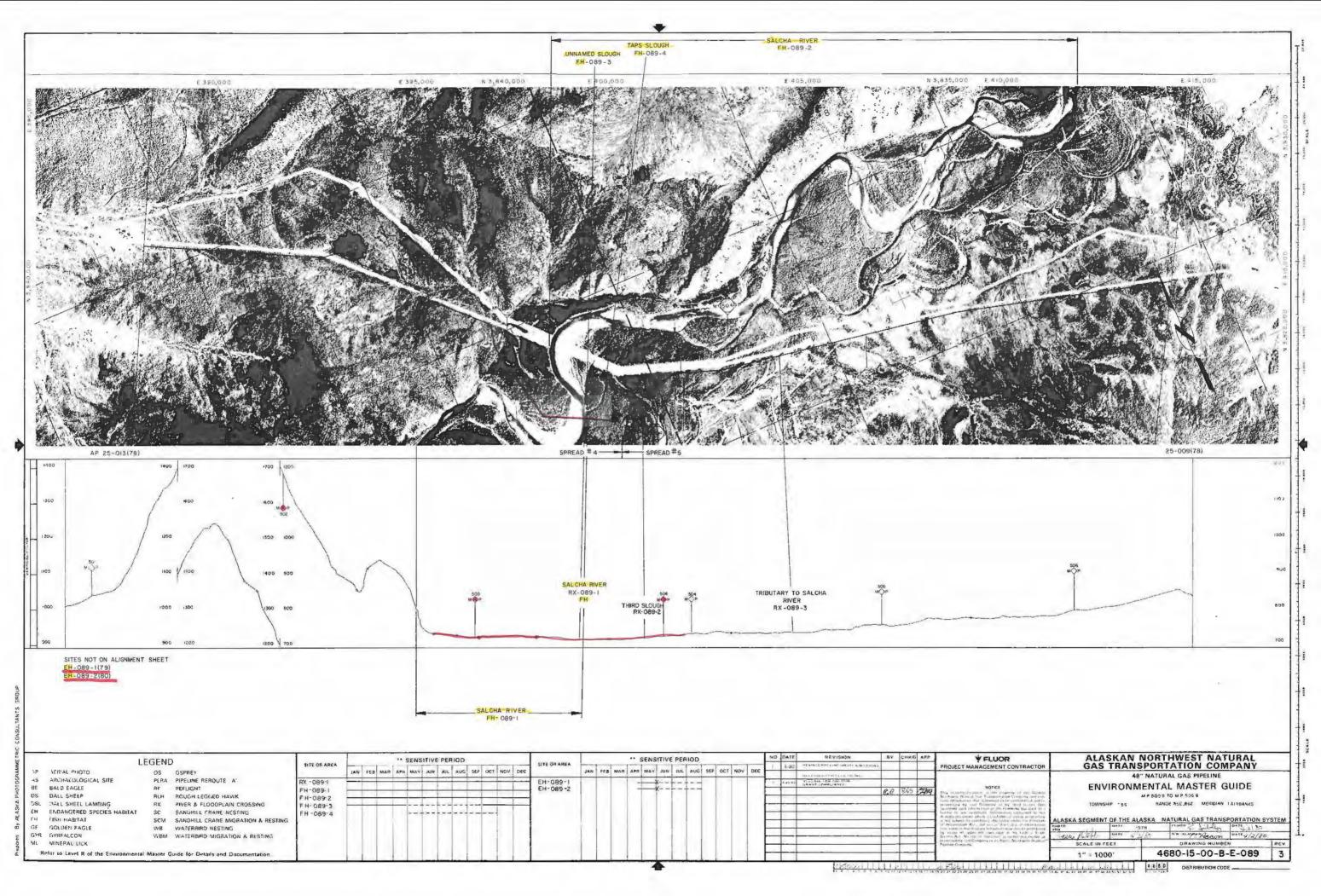


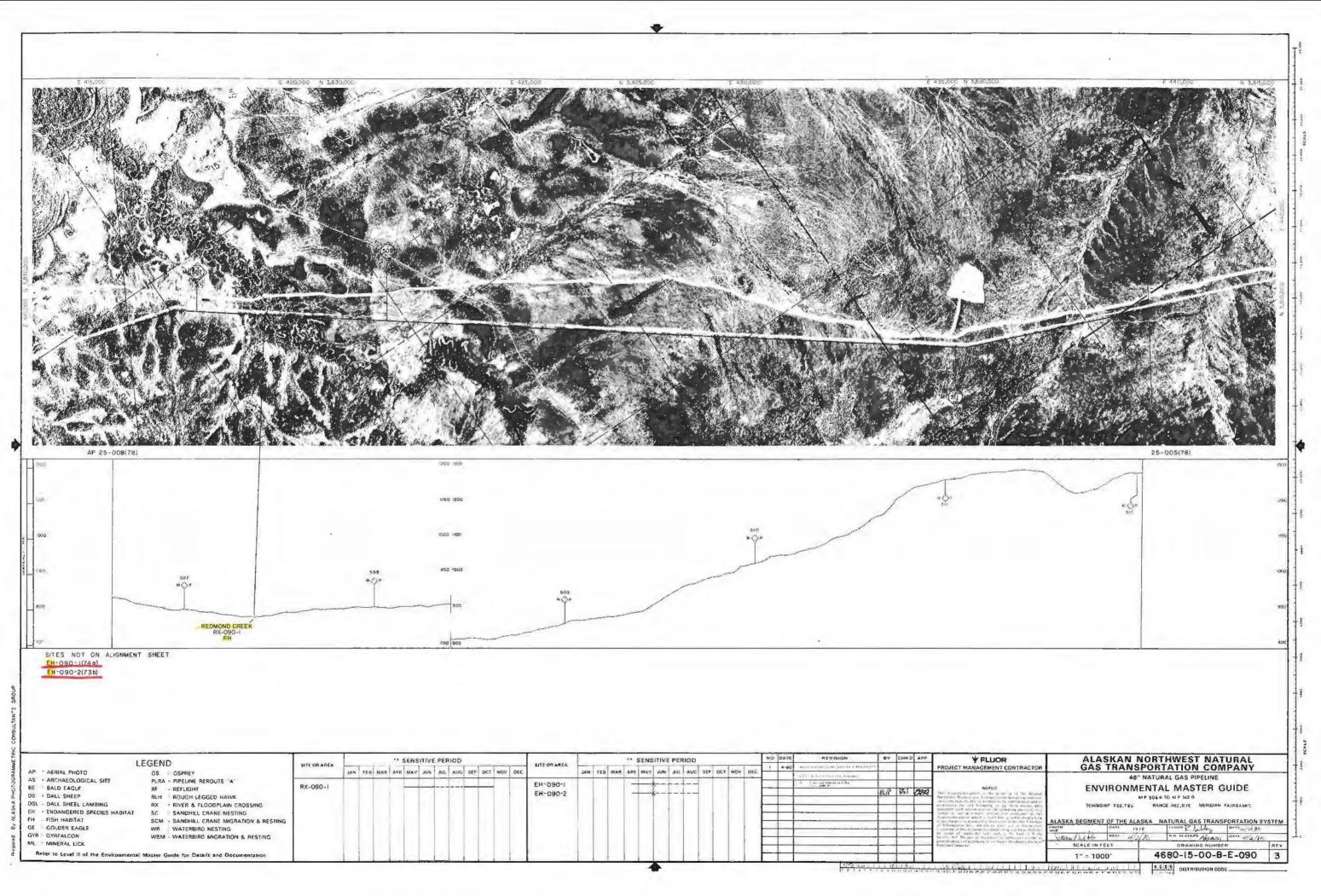


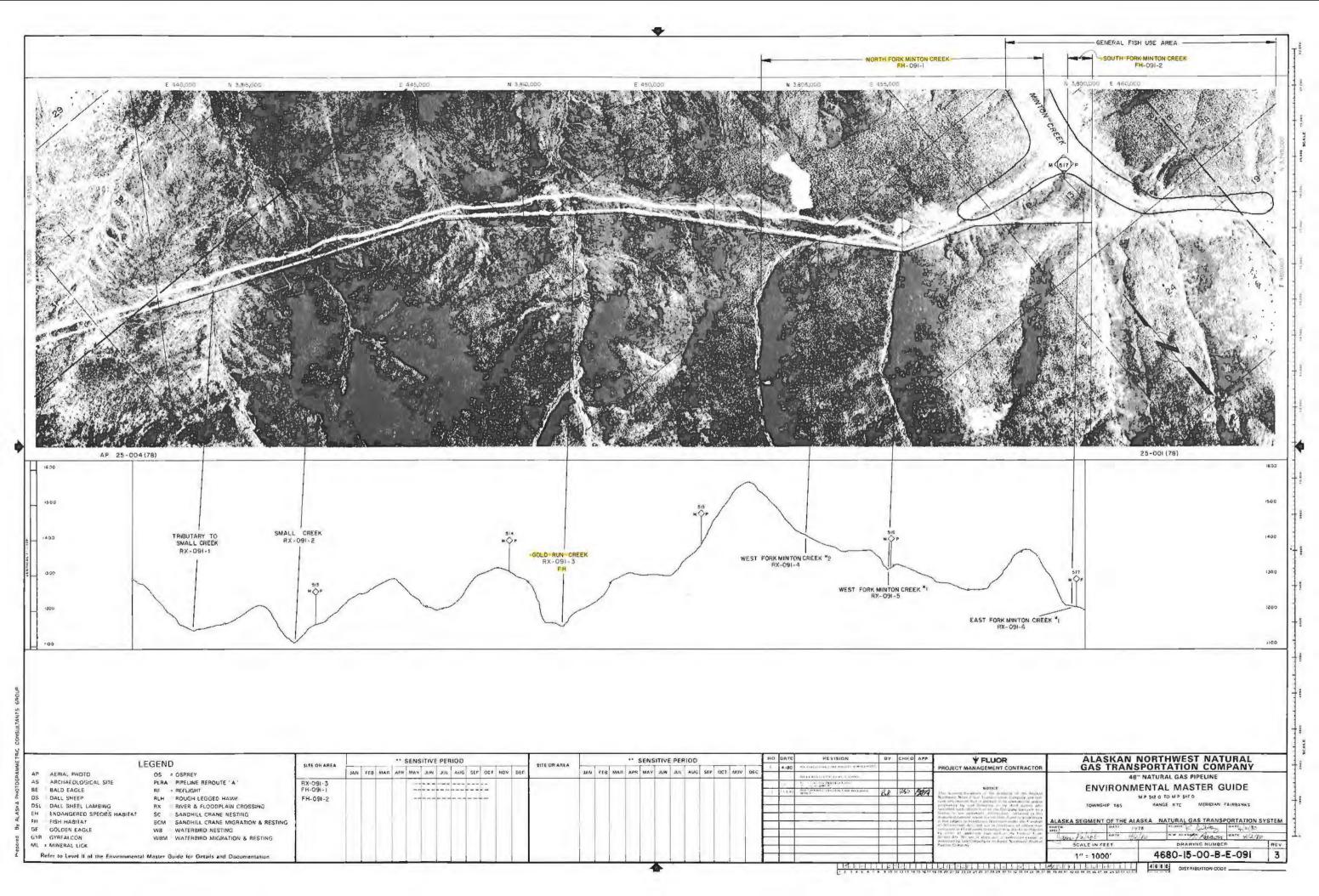


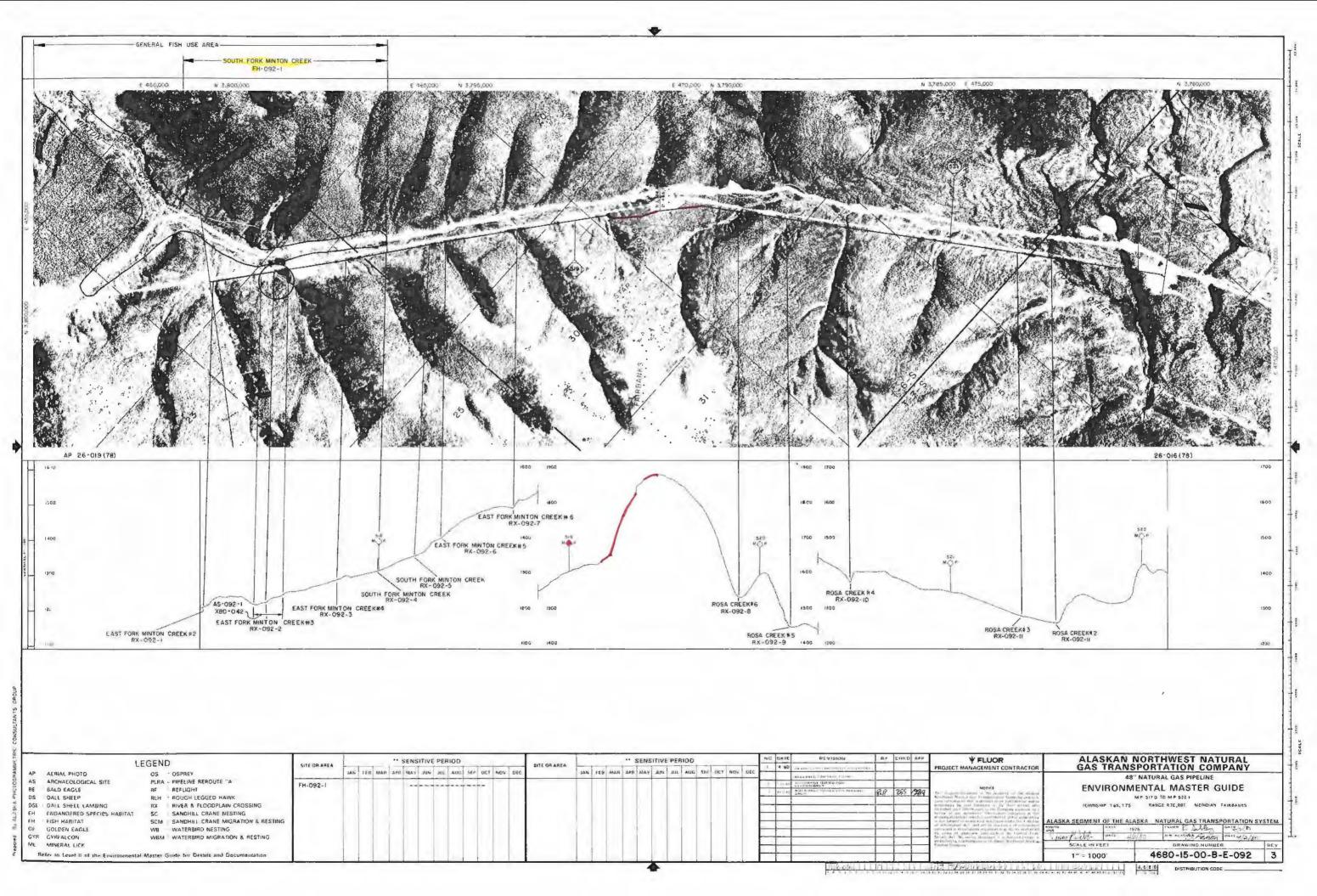


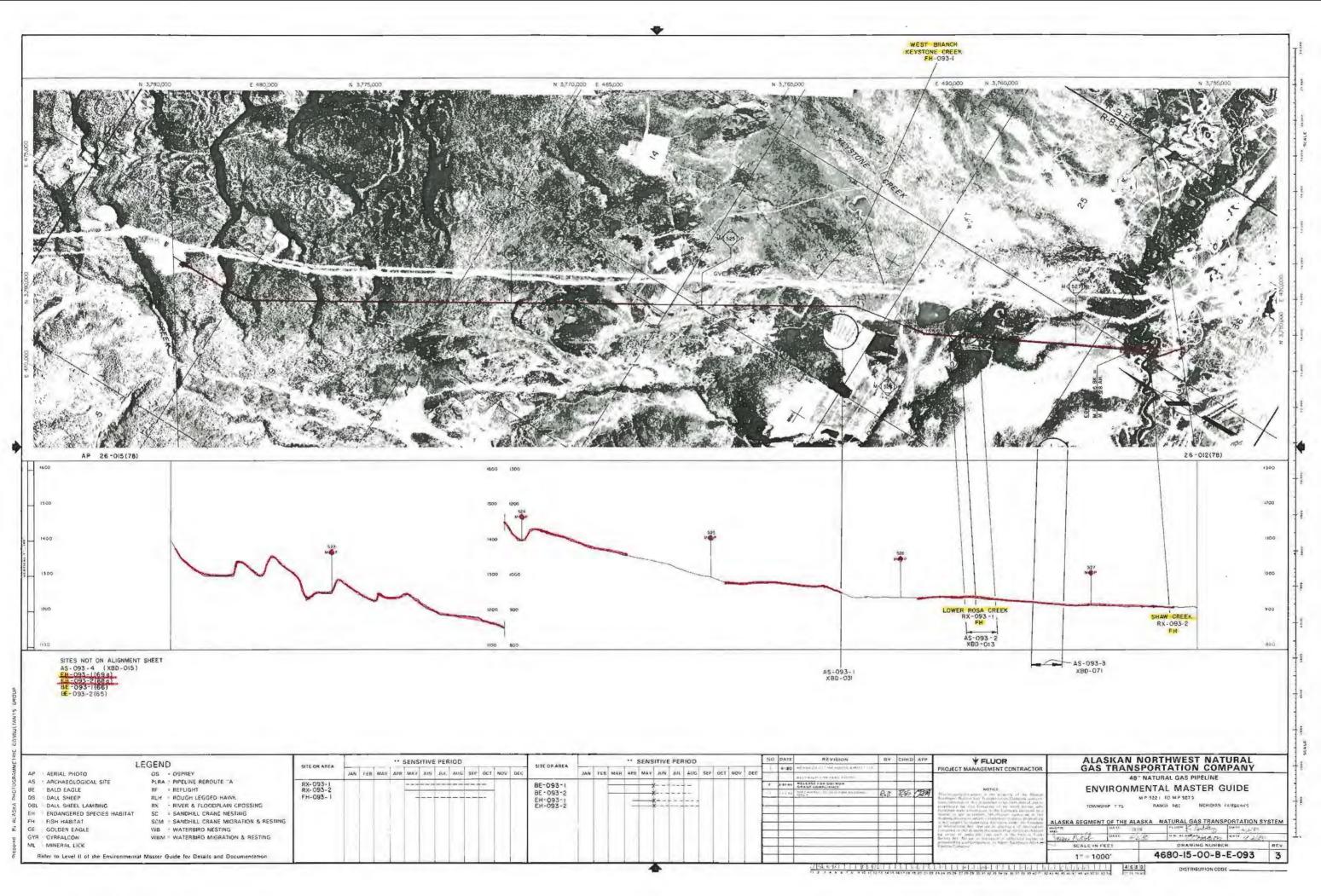


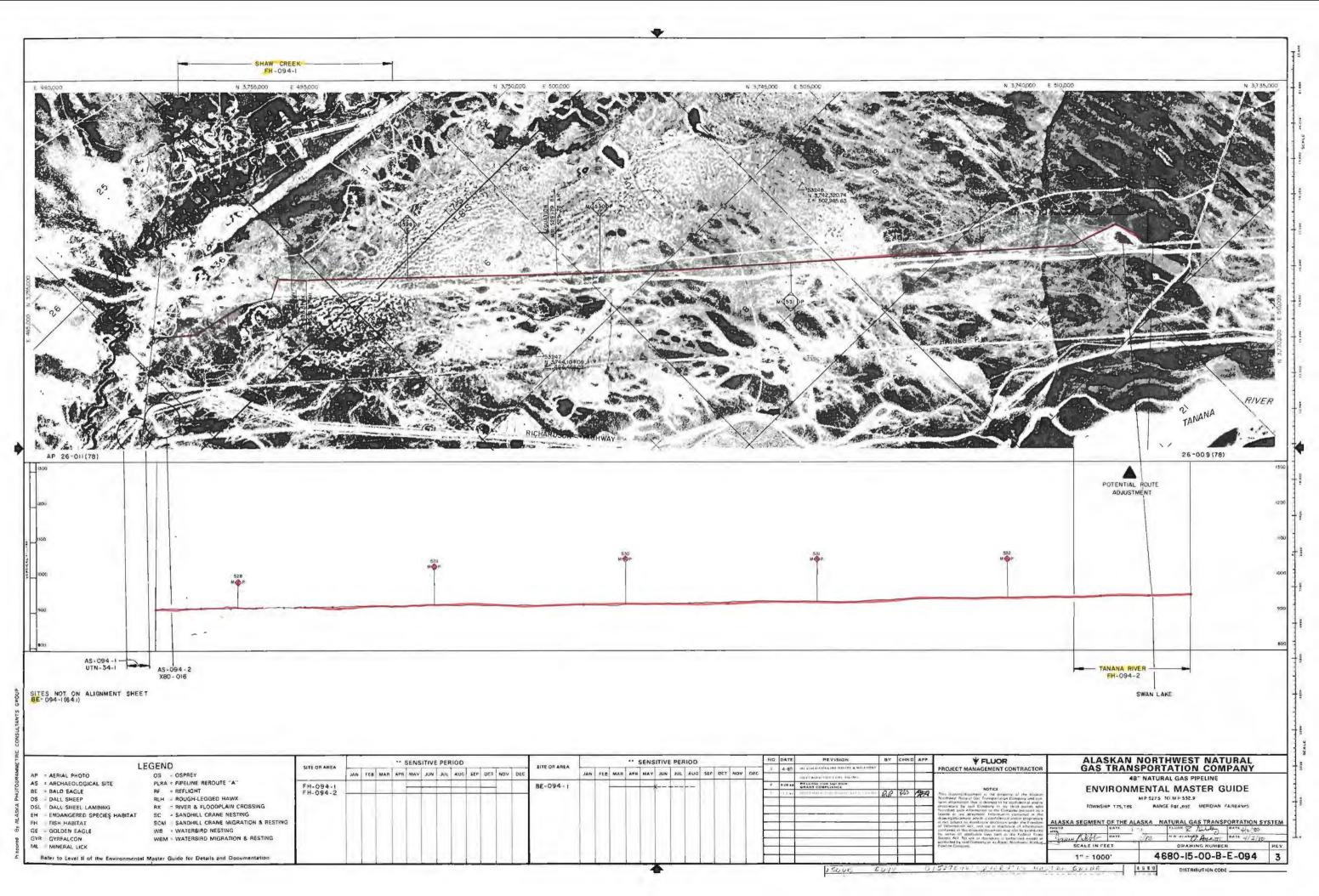


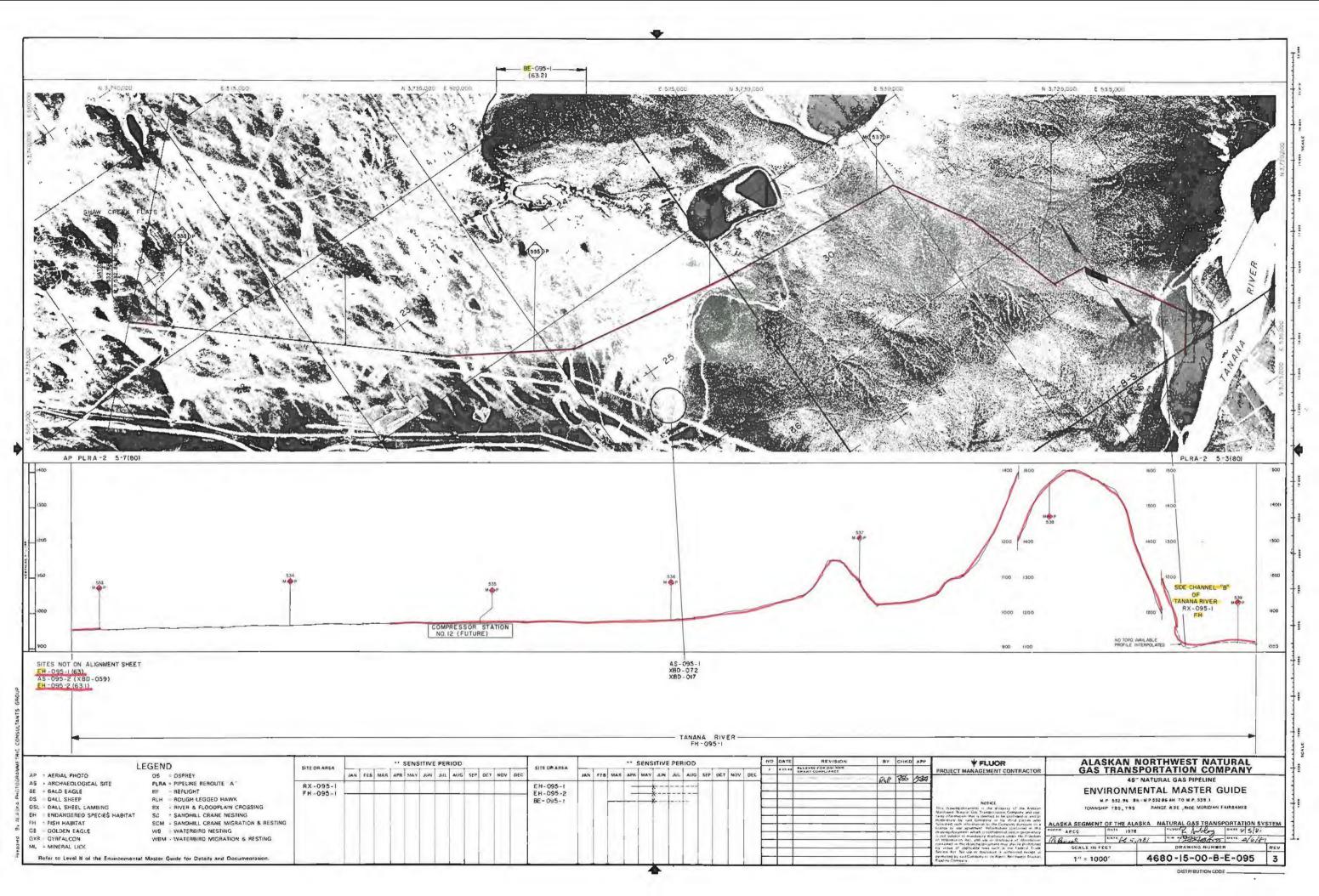


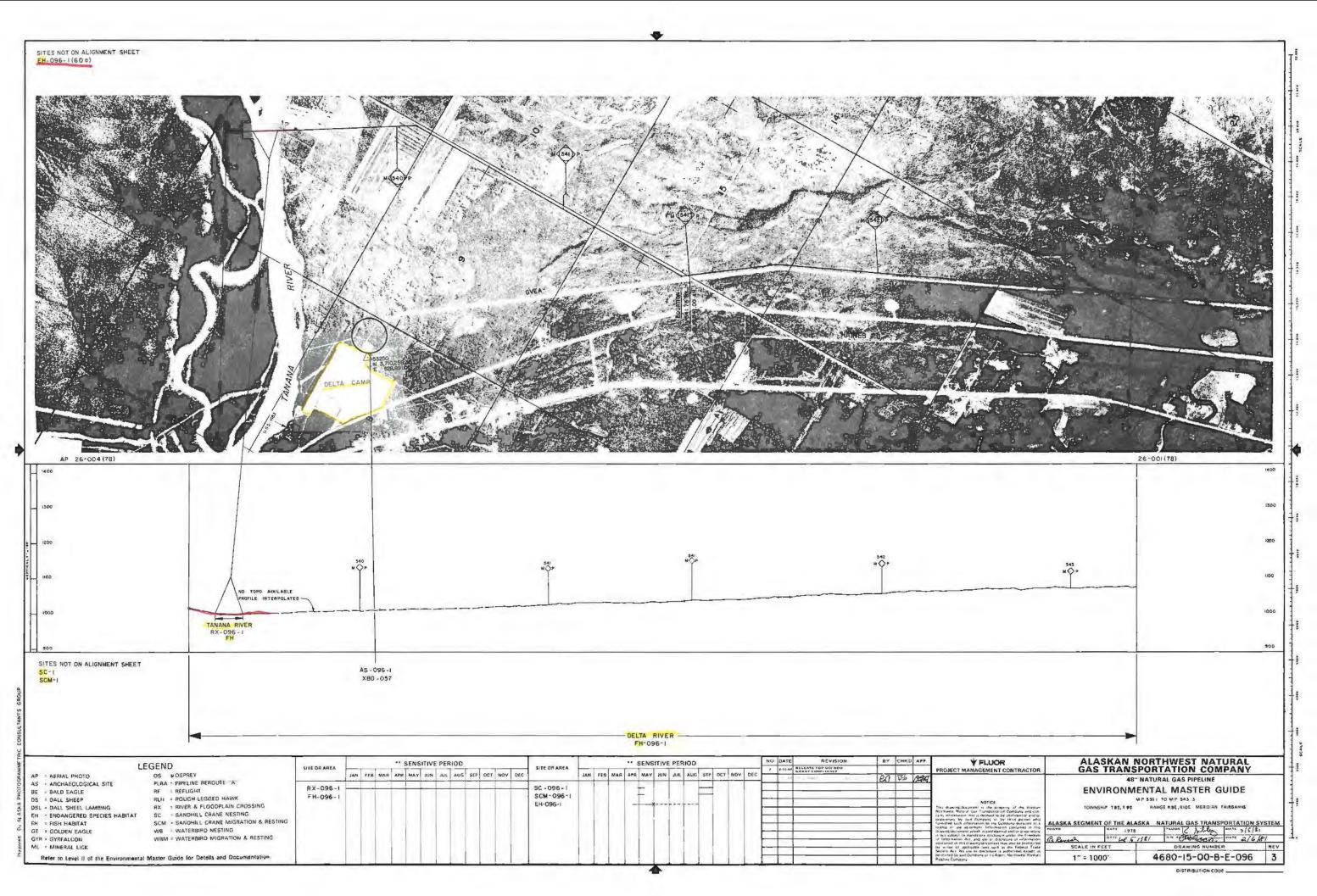


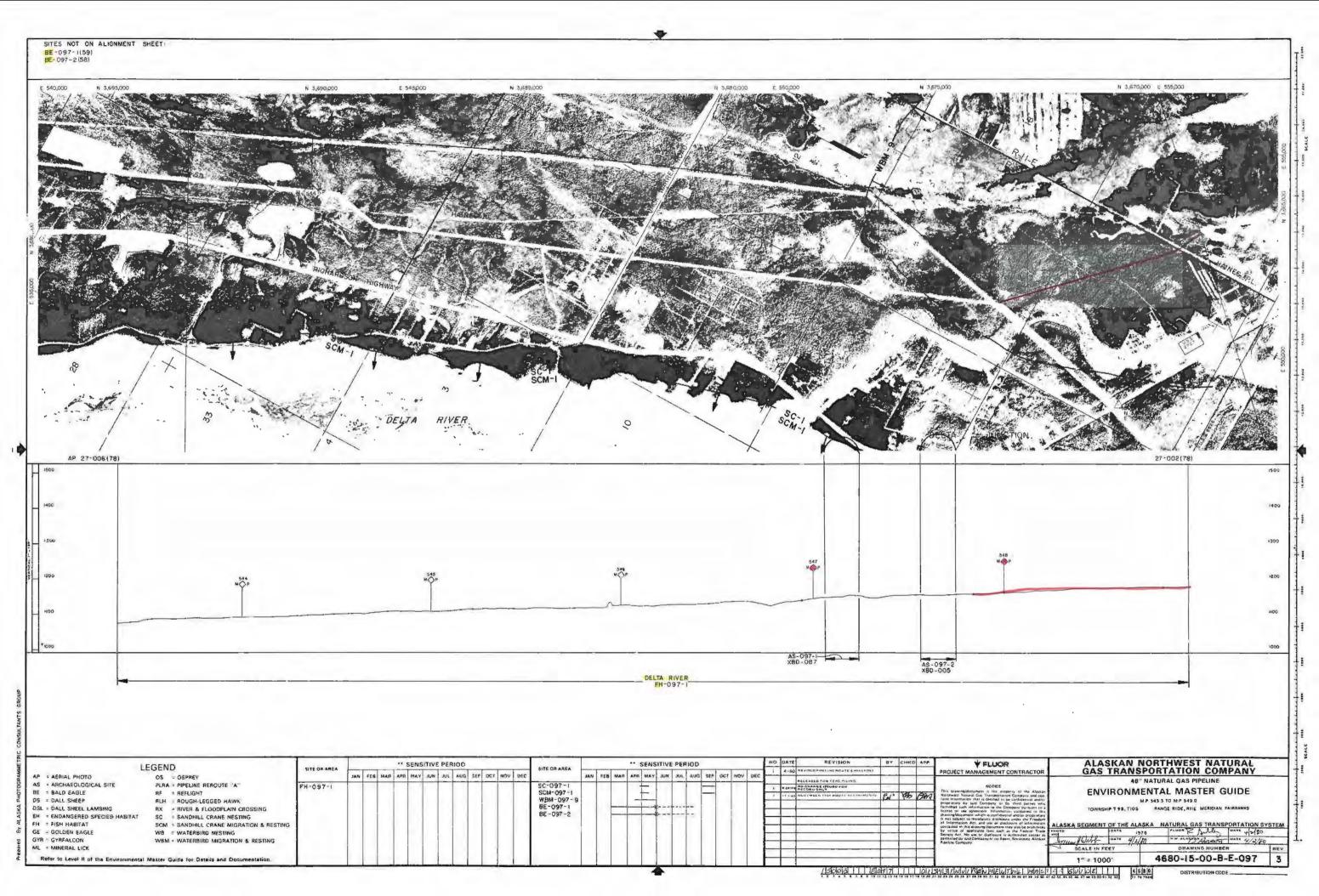


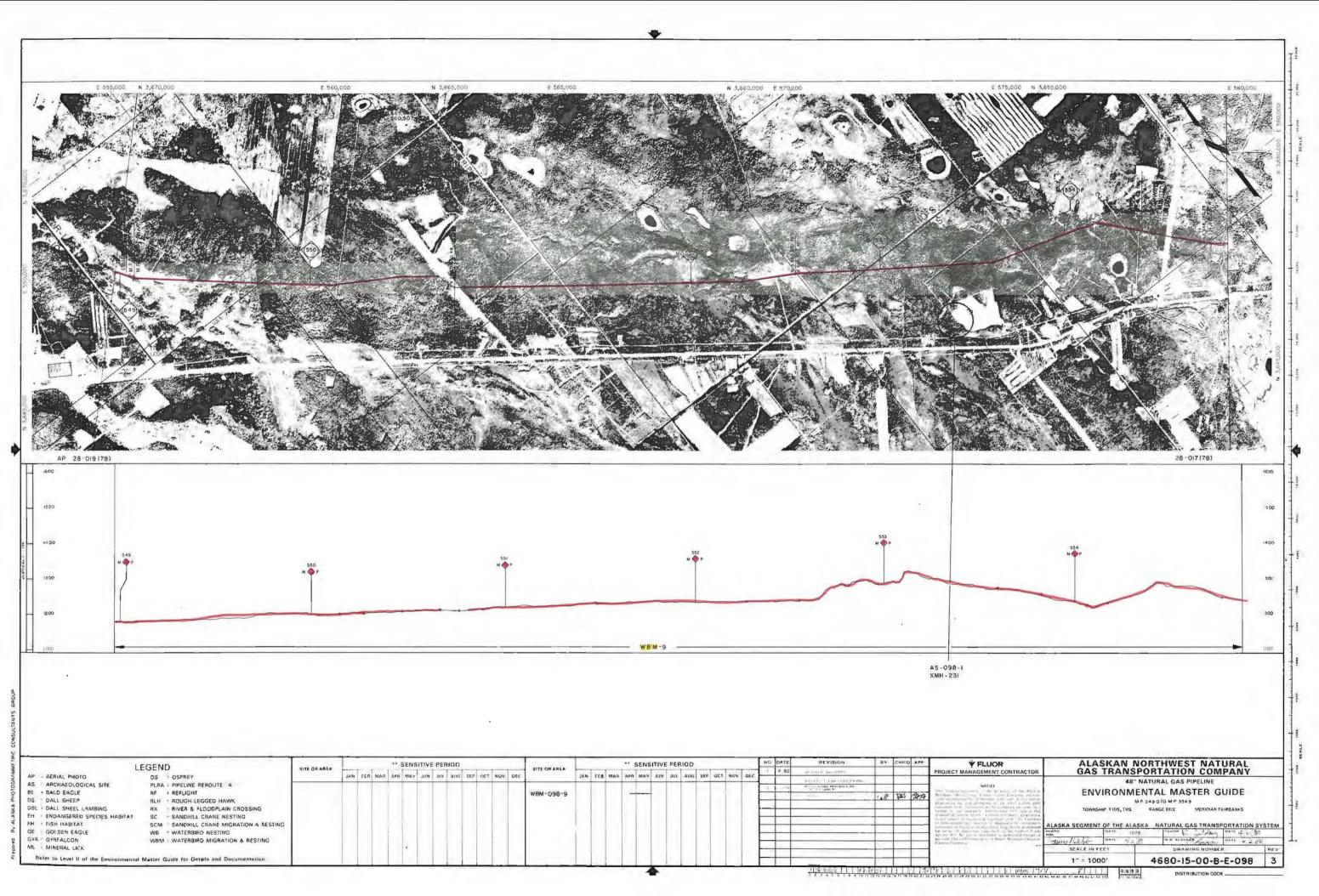


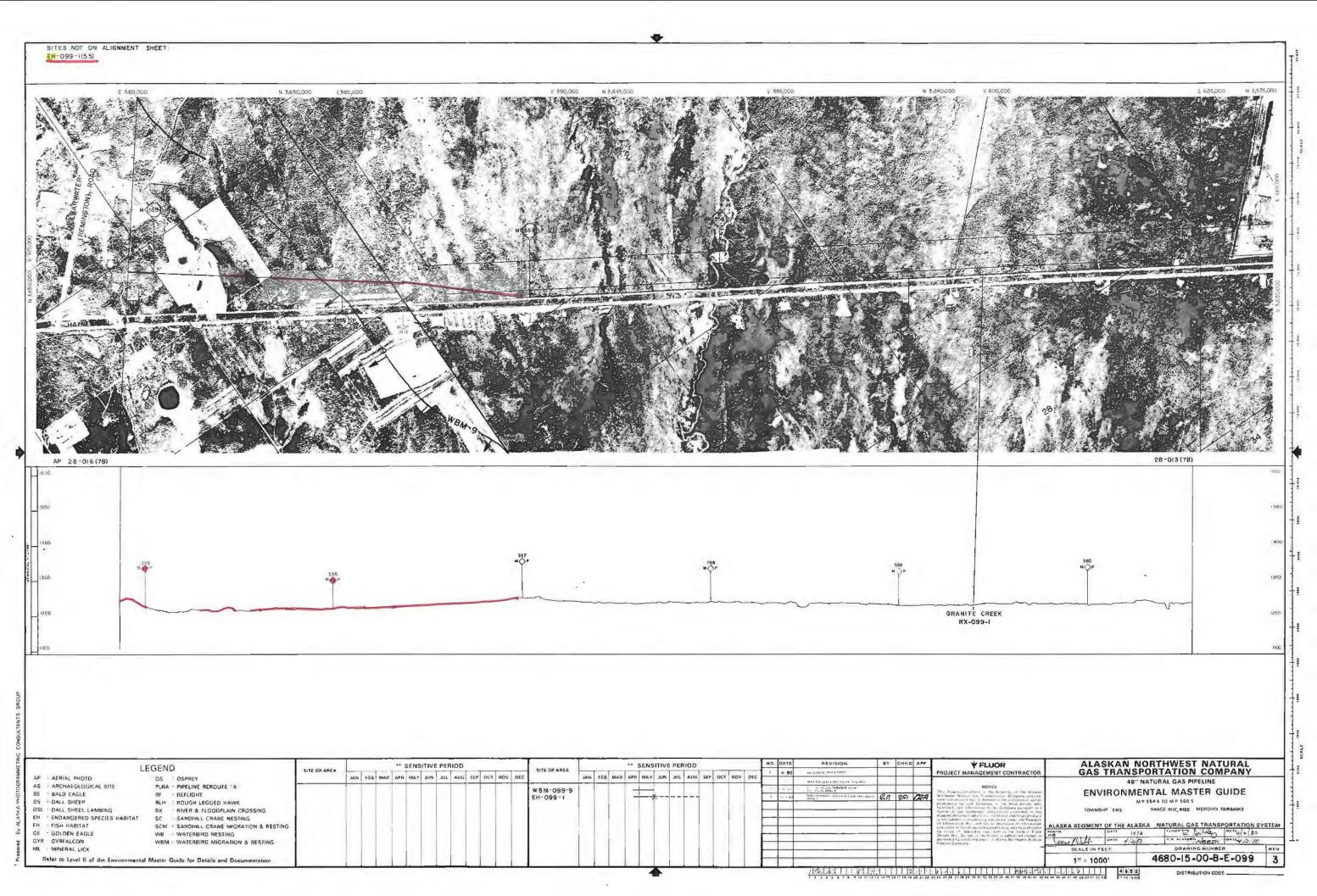


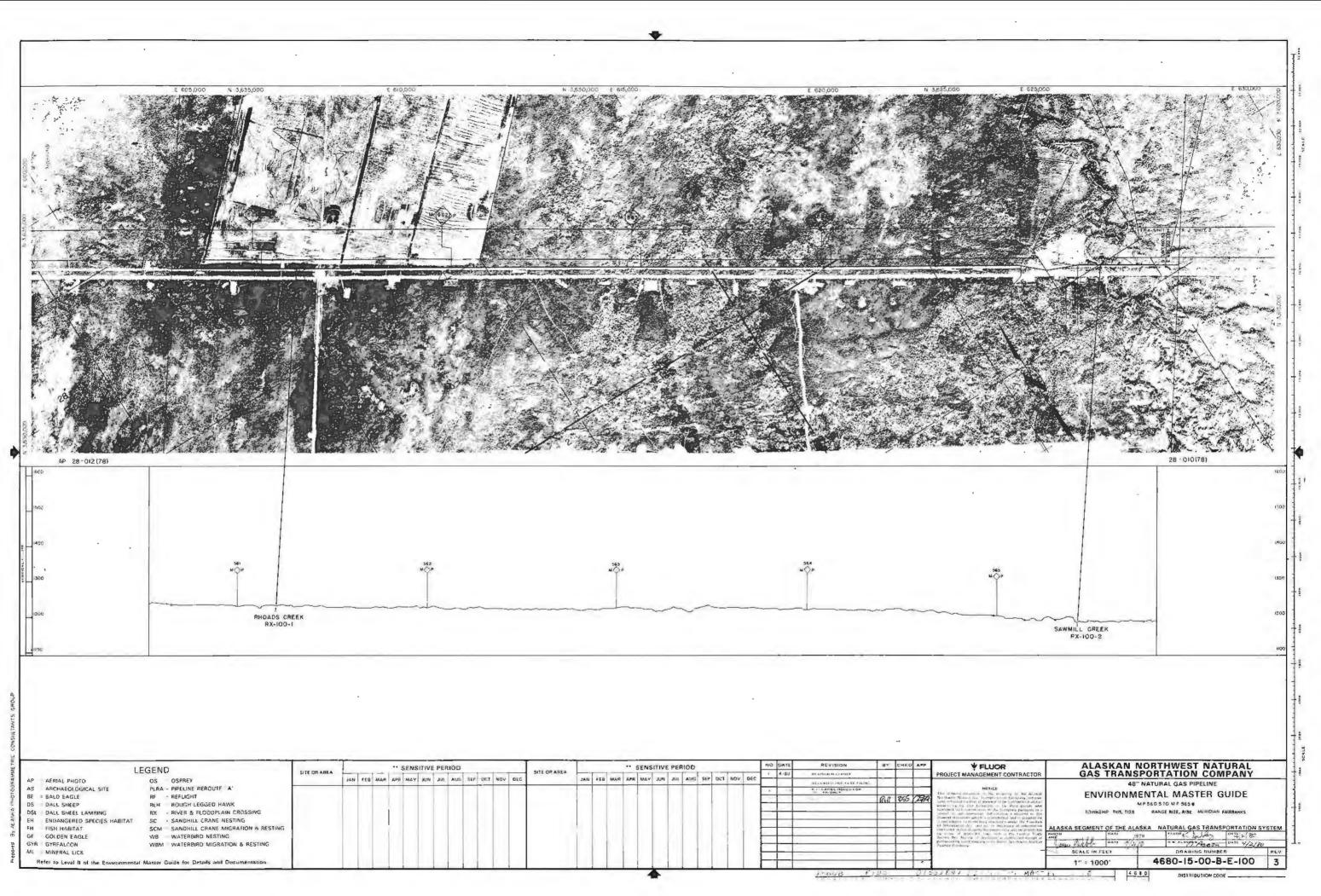


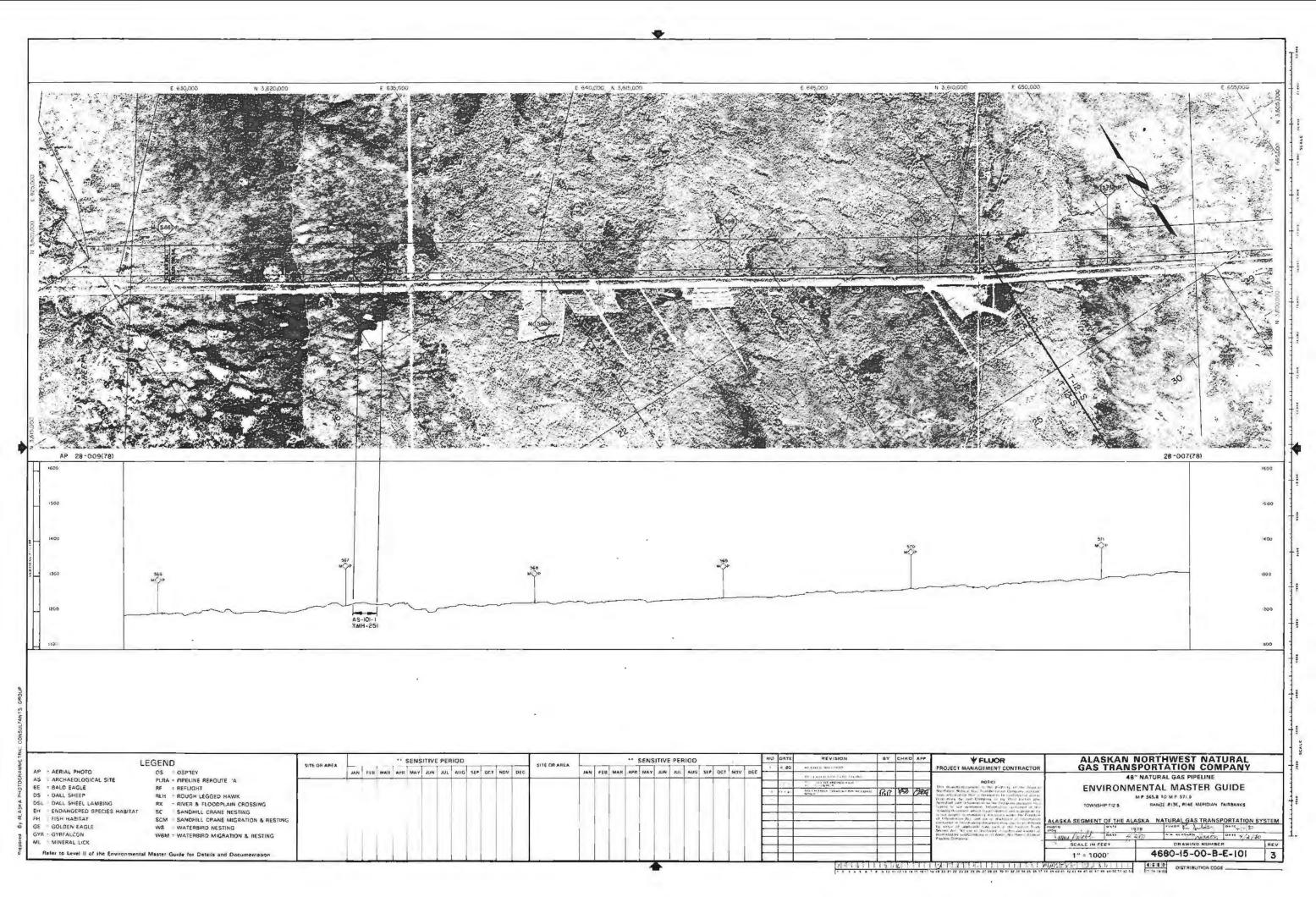


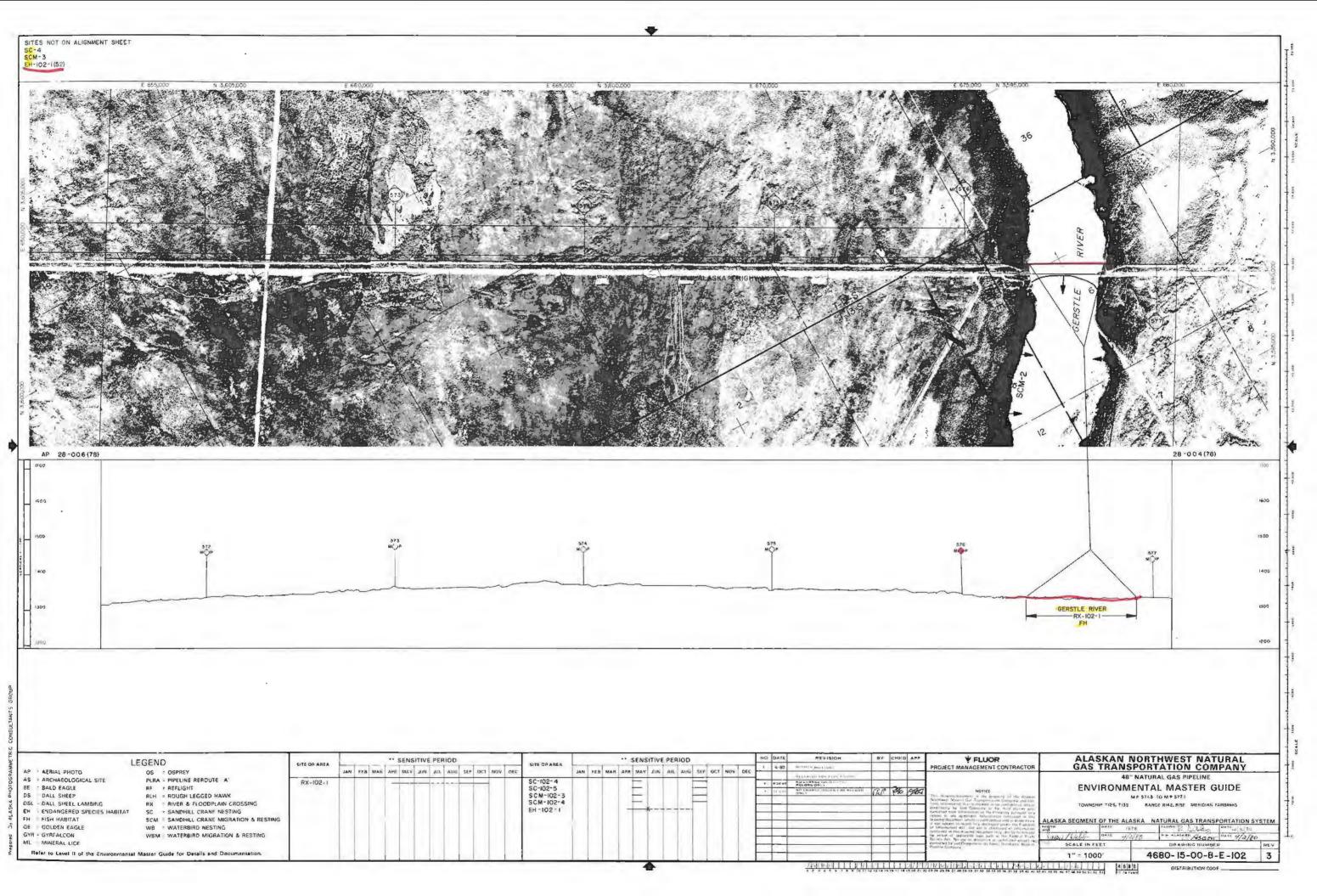


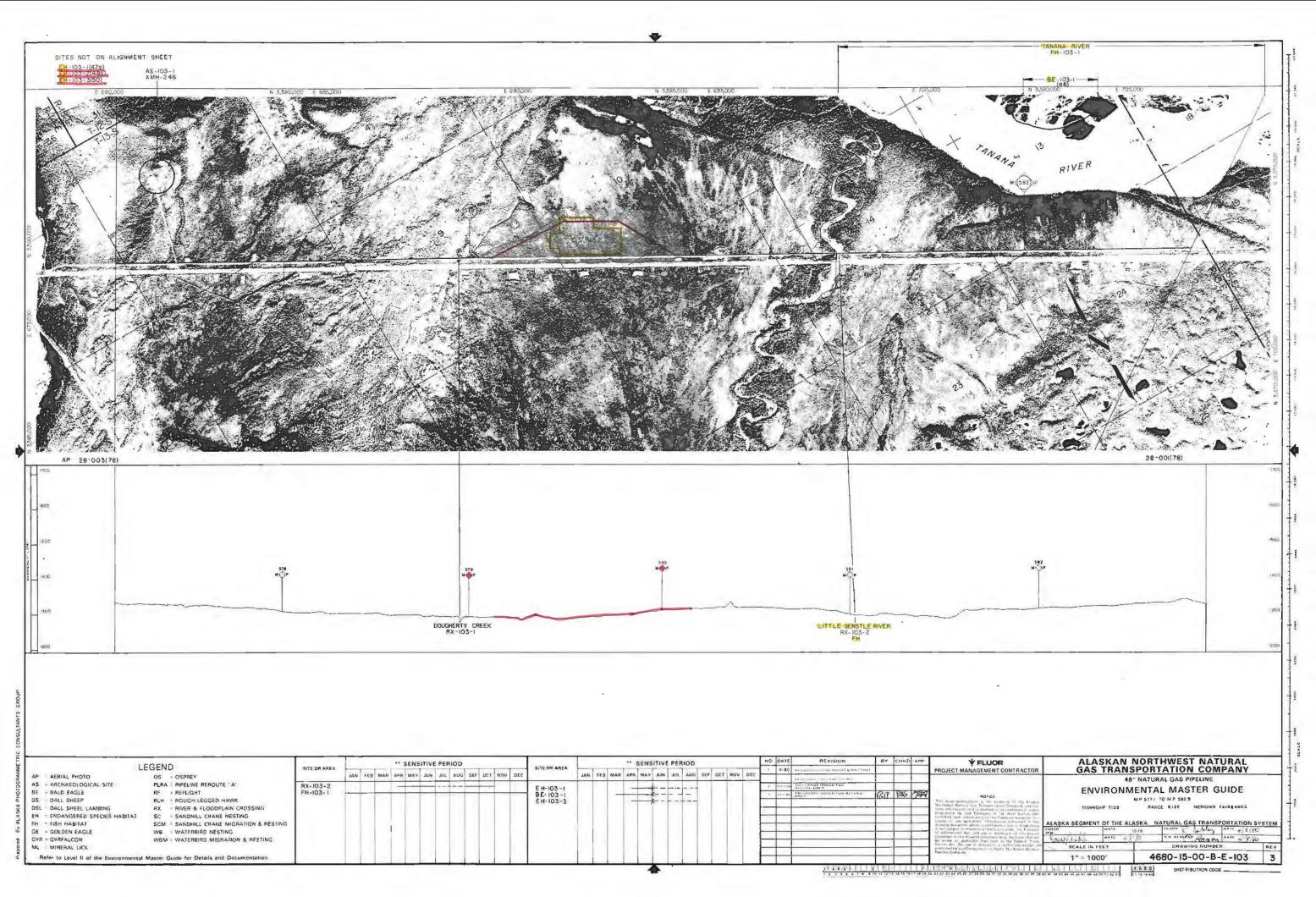


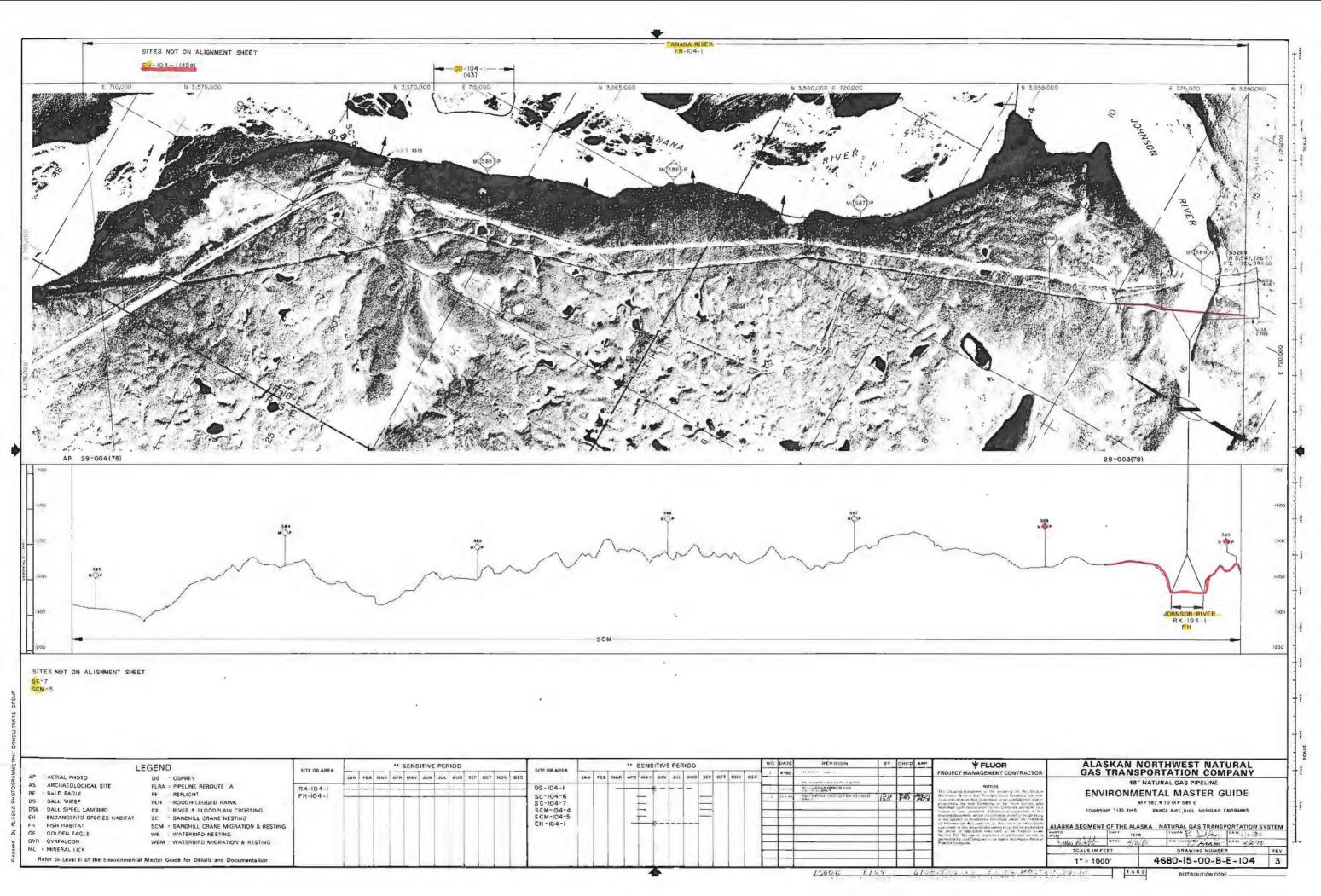




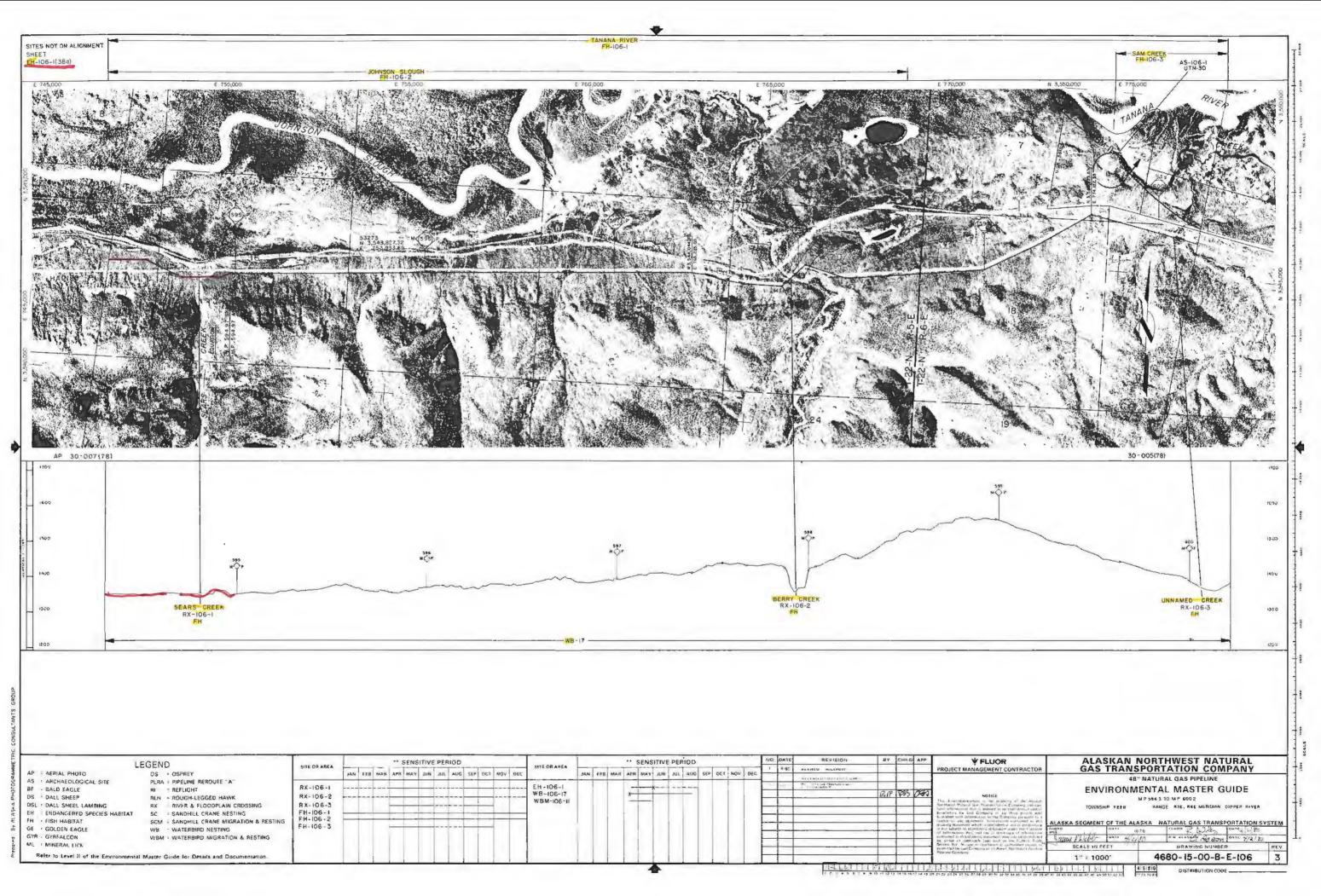


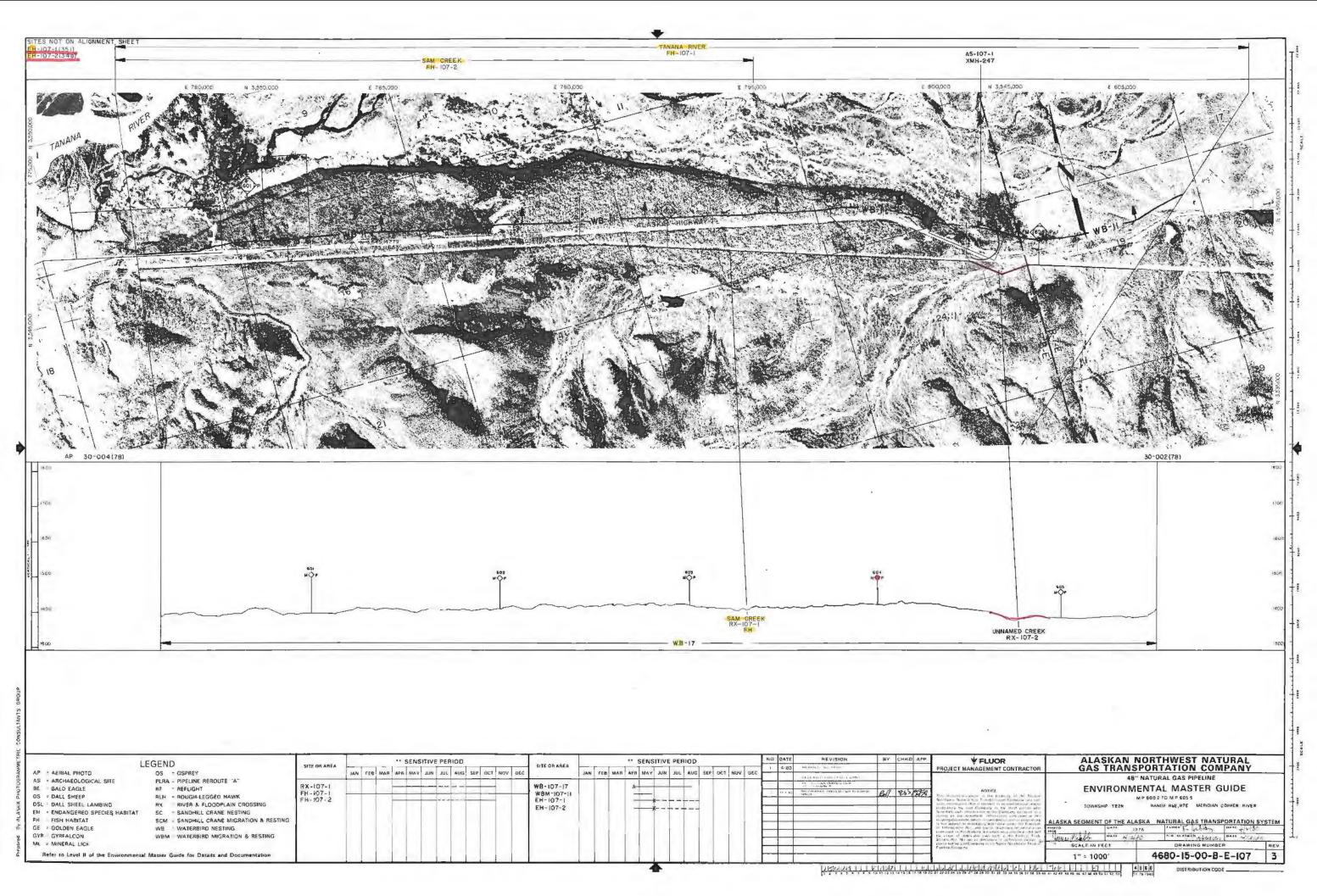


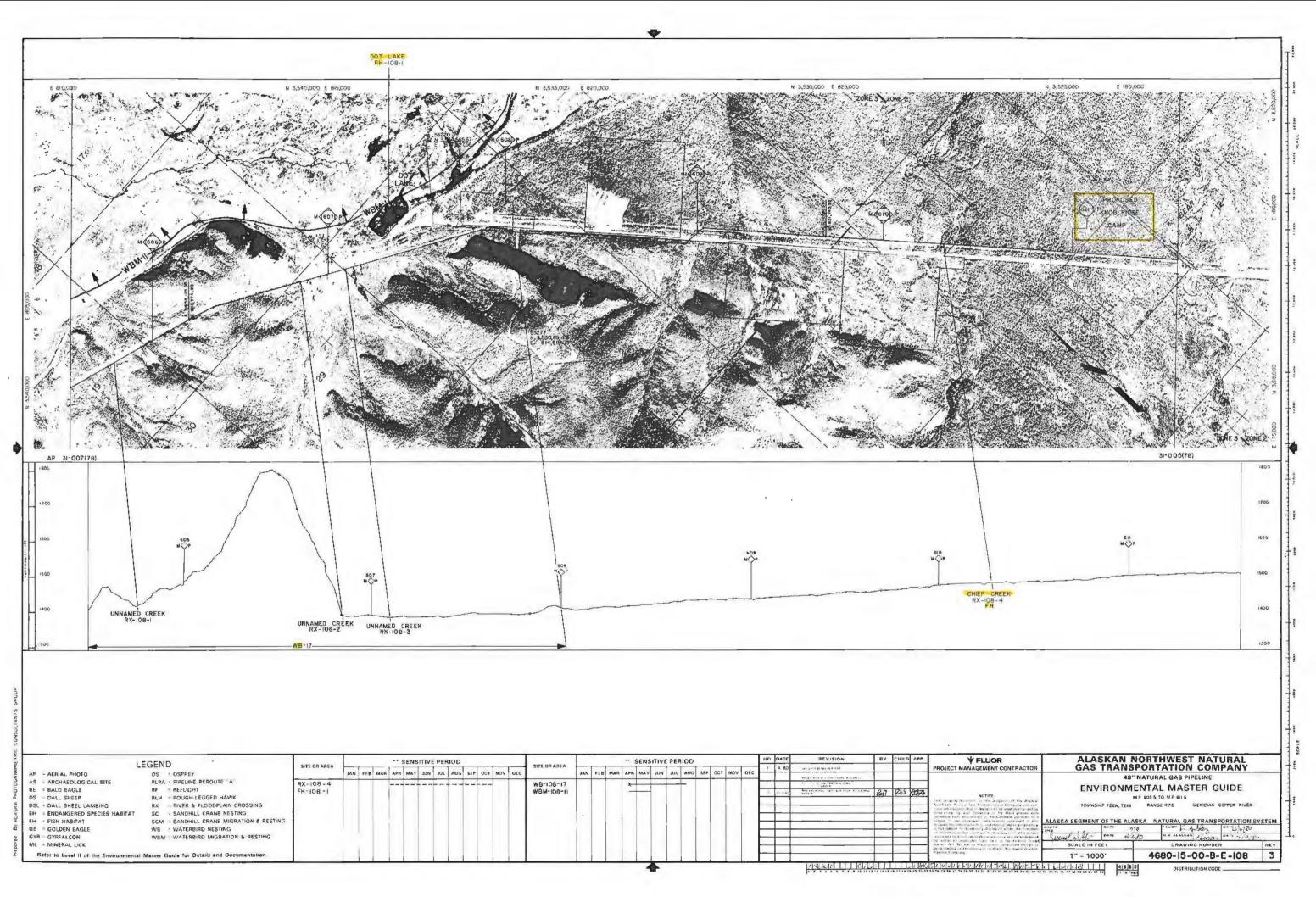


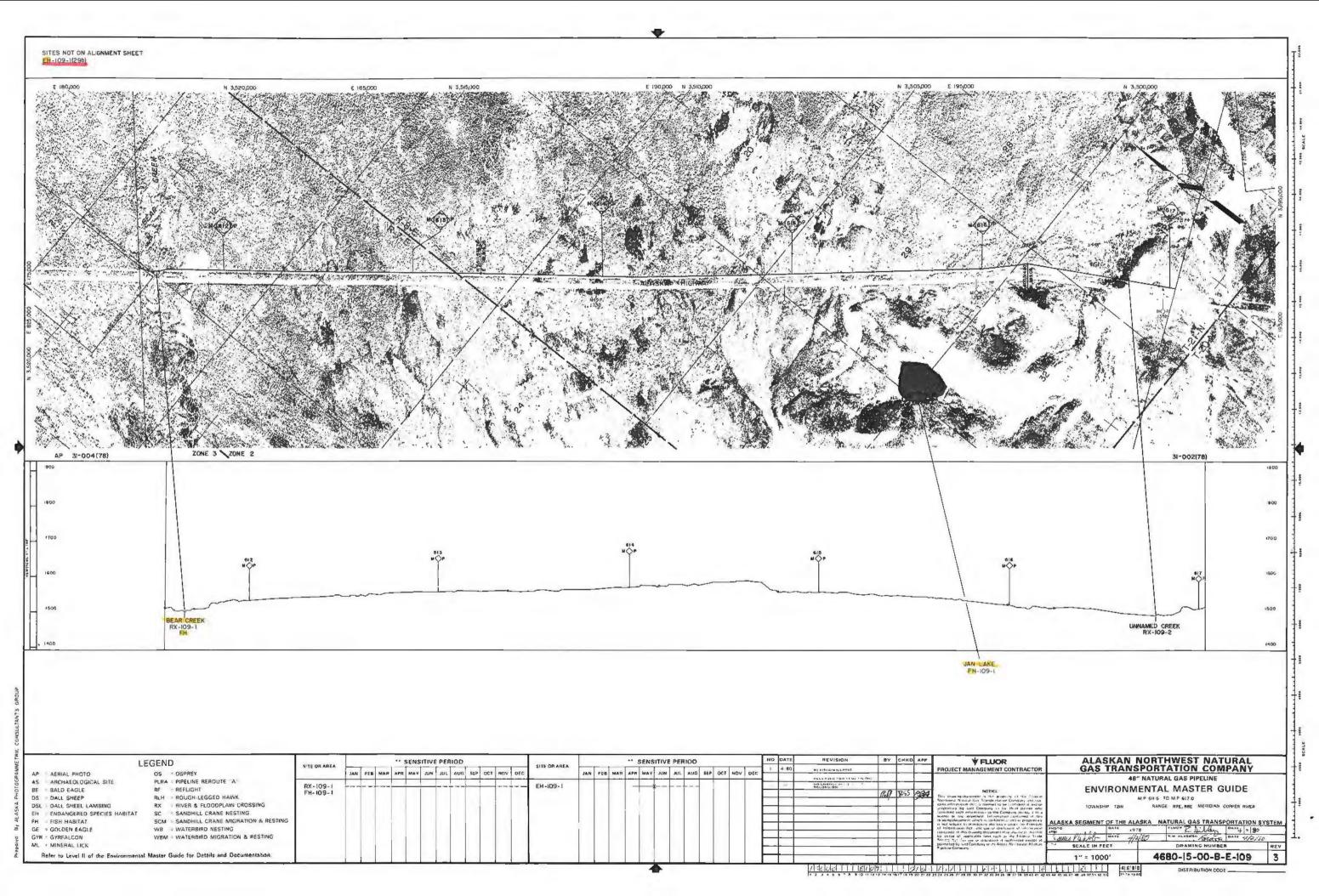


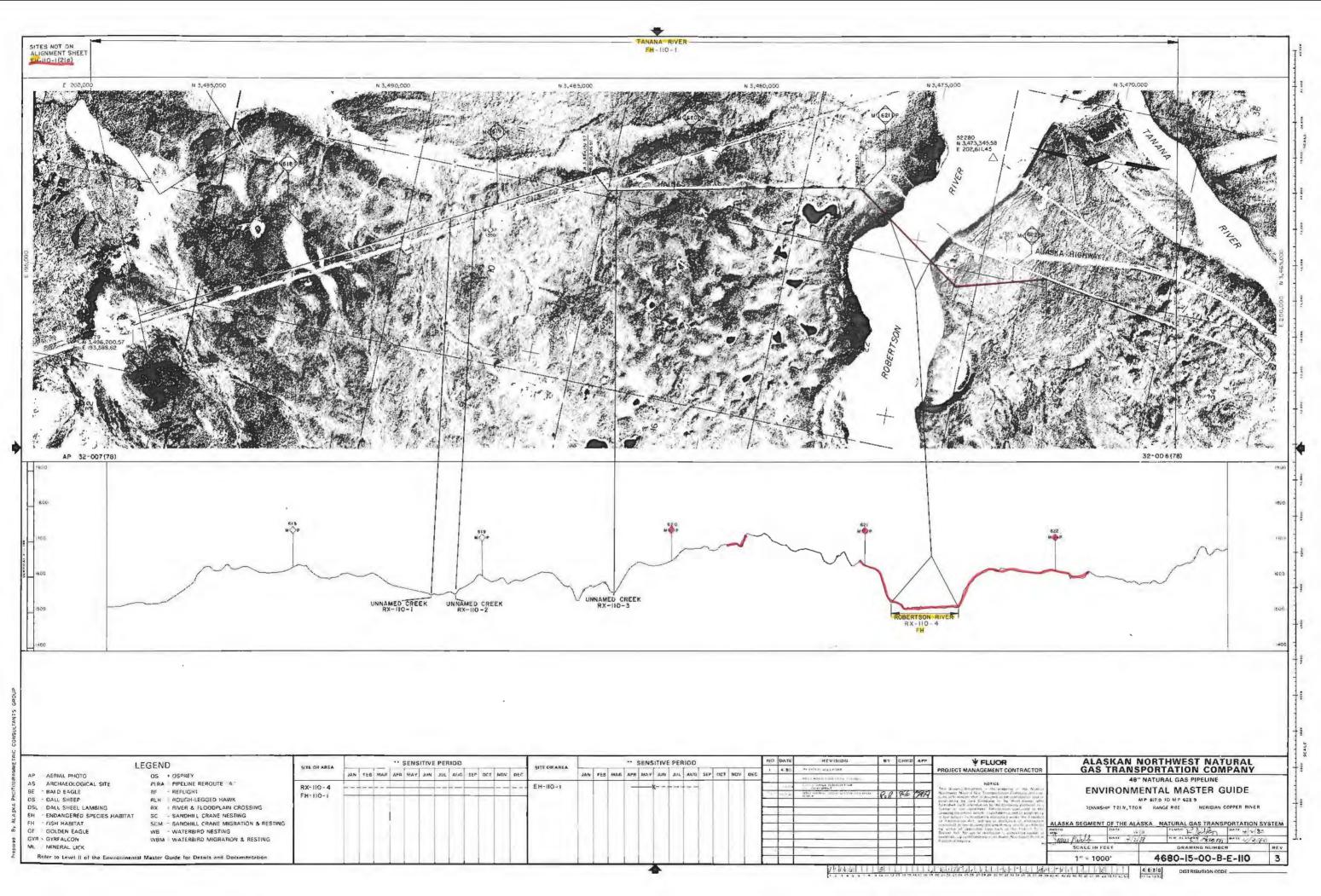
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BE BALD EAGLE
DS DALL SHEEP
DSL DALL SHEEP
ENDANGERED SPECIES
FIN TISH MARK OS OSPREY PLRA - PIPELINE REROUTE "A" 48" NATURAL GAS PIPELINE PX - 105 - 1 FH - 105 - 1 W8M-105-10 EH-105-1 **ENVIRONMENTAL MASTER GUIDE** RF = REFLIGHT
RLH | ACUGH LEGGED HAWK
RX : RIVER & FLOODPLAIN CROSSING MP 585 0 TO M F 594.3 1141. T 22M RANGE RIGE, ASE MERIDIAN FAIRBANKS, COPPER RIVER FH - 105 - 2 C SANDHILL CRANE NIGRATION & RESTING
SCM - SANDHILL CRANE NIGRATION & RESTING
WB - WATERBIRD NESTING
WBM - WATERBIRD MIGRATION & RESTING ENDANGERED SPECIES HABITAT GF - GOLDEN EAGLE GYR - GYRFALCON ML - MINERAL LICE: Refer to Level II of the Environmental Master Guide for Details and Documentation. 4680-15-00-B-E-105

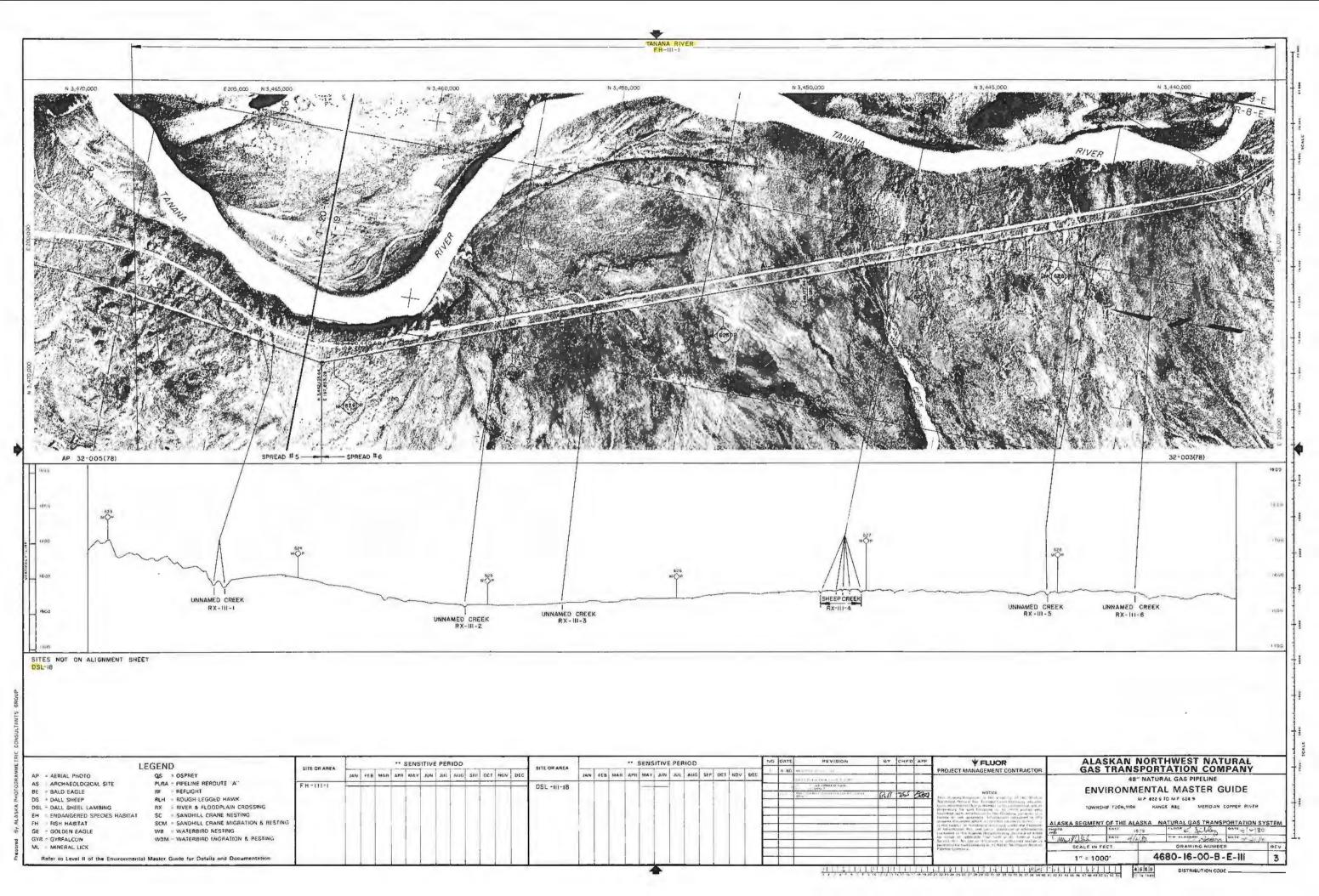


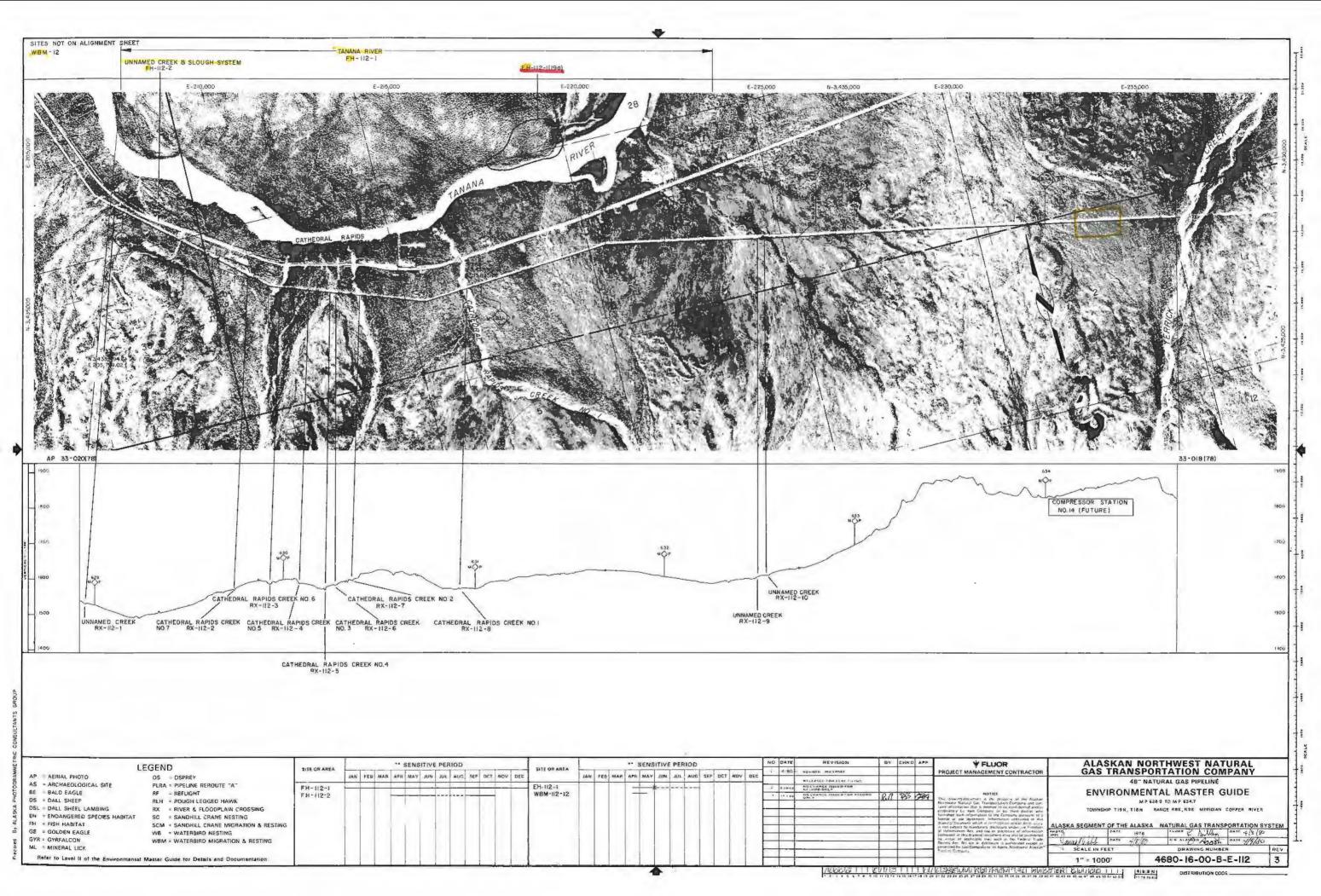


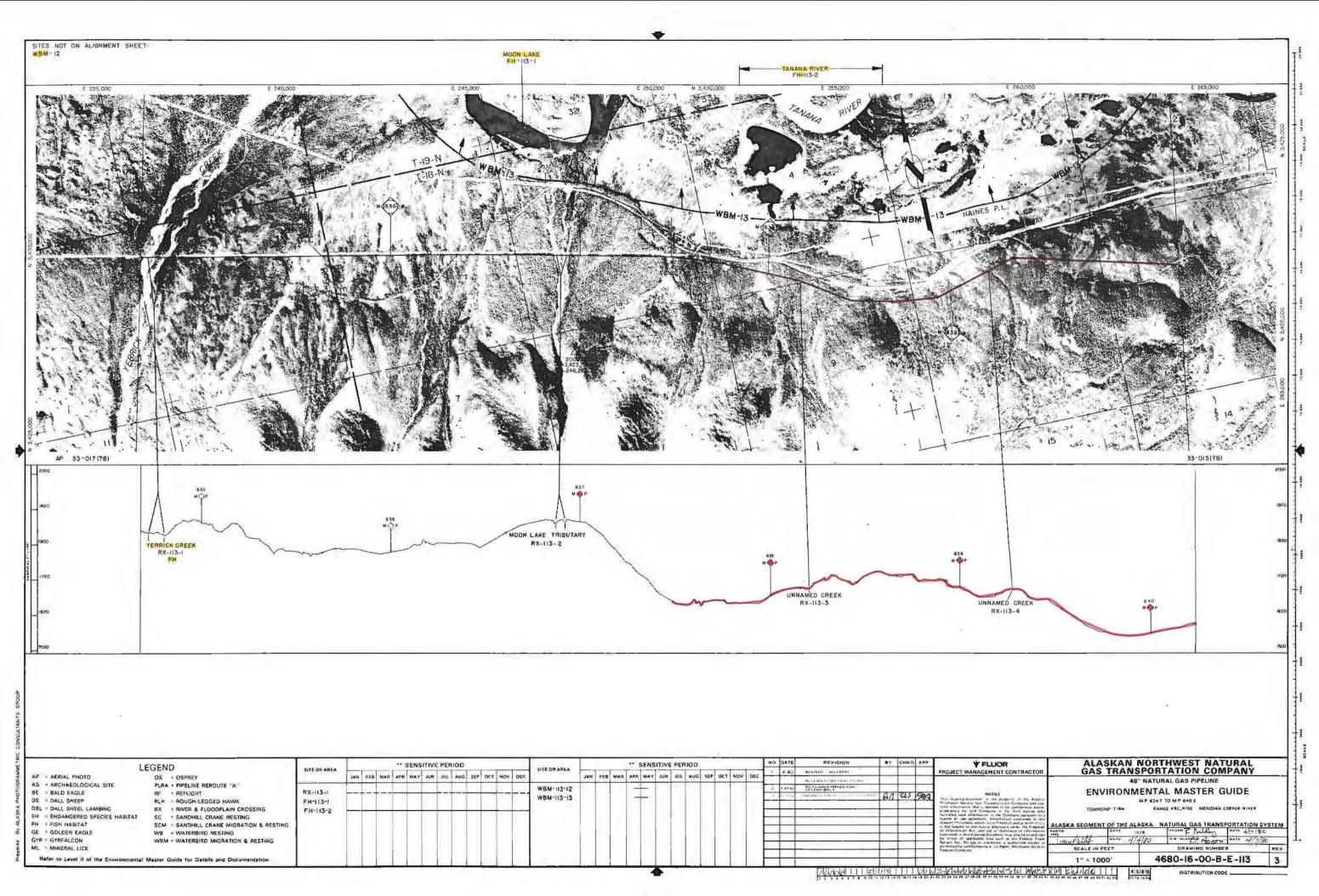


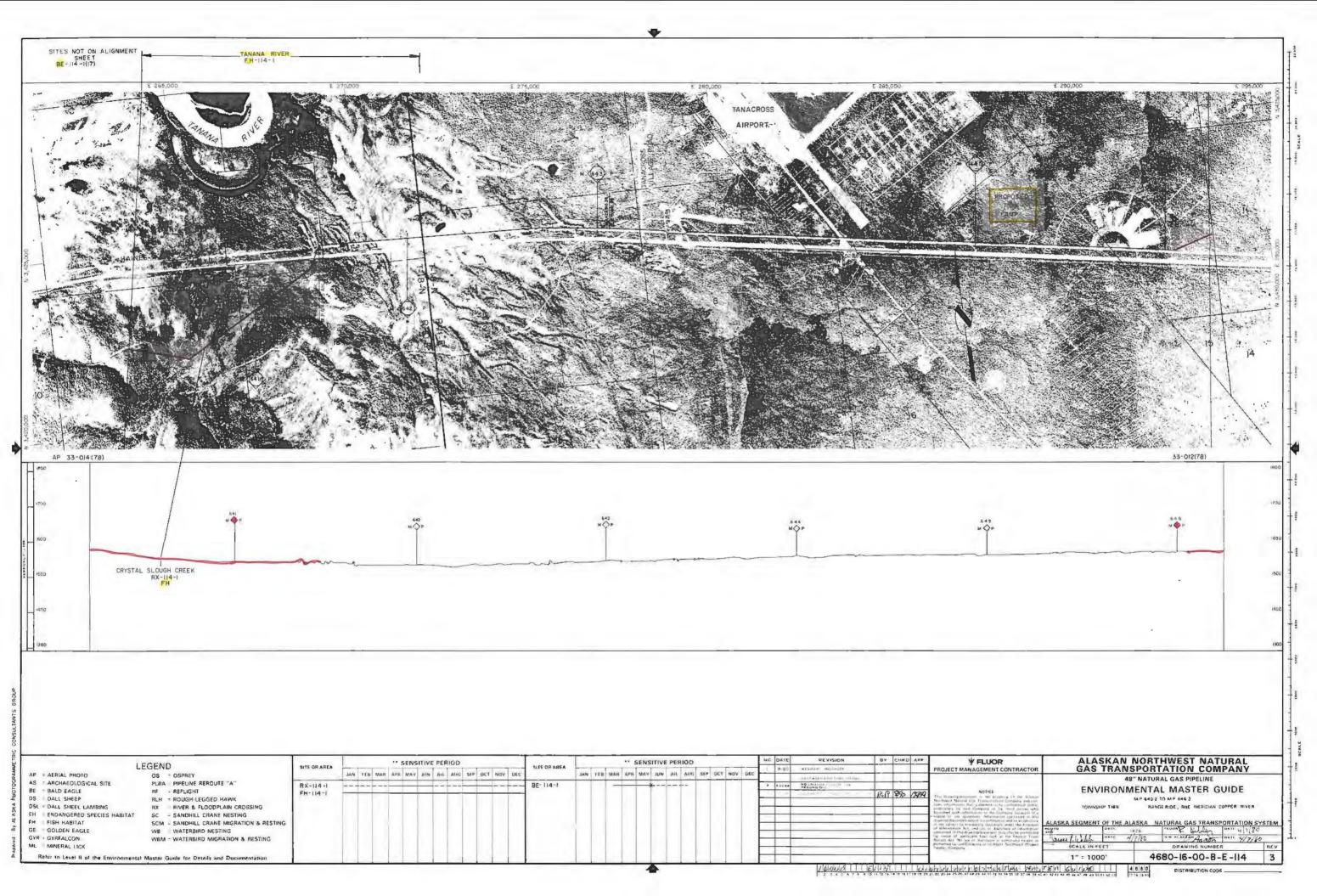


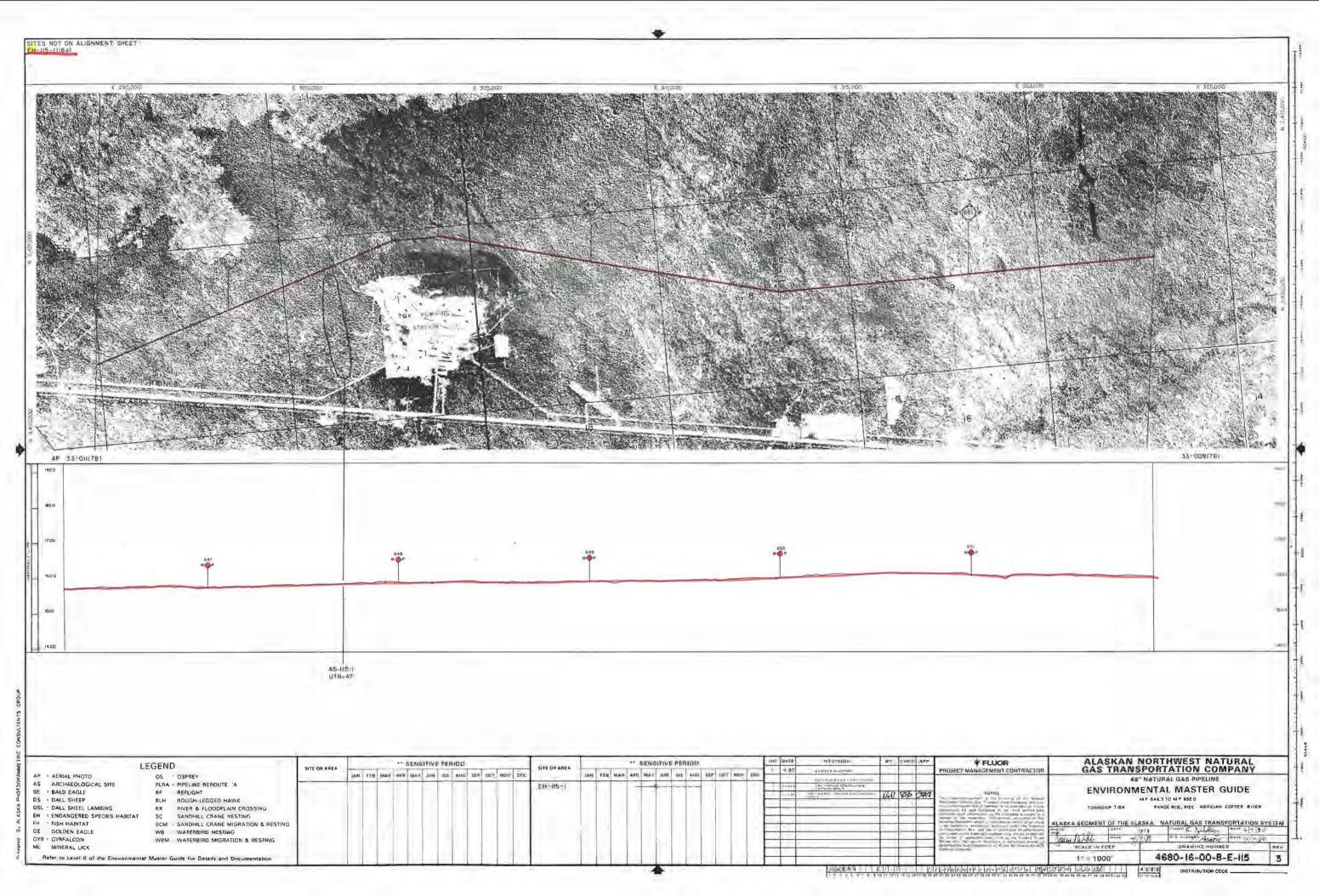


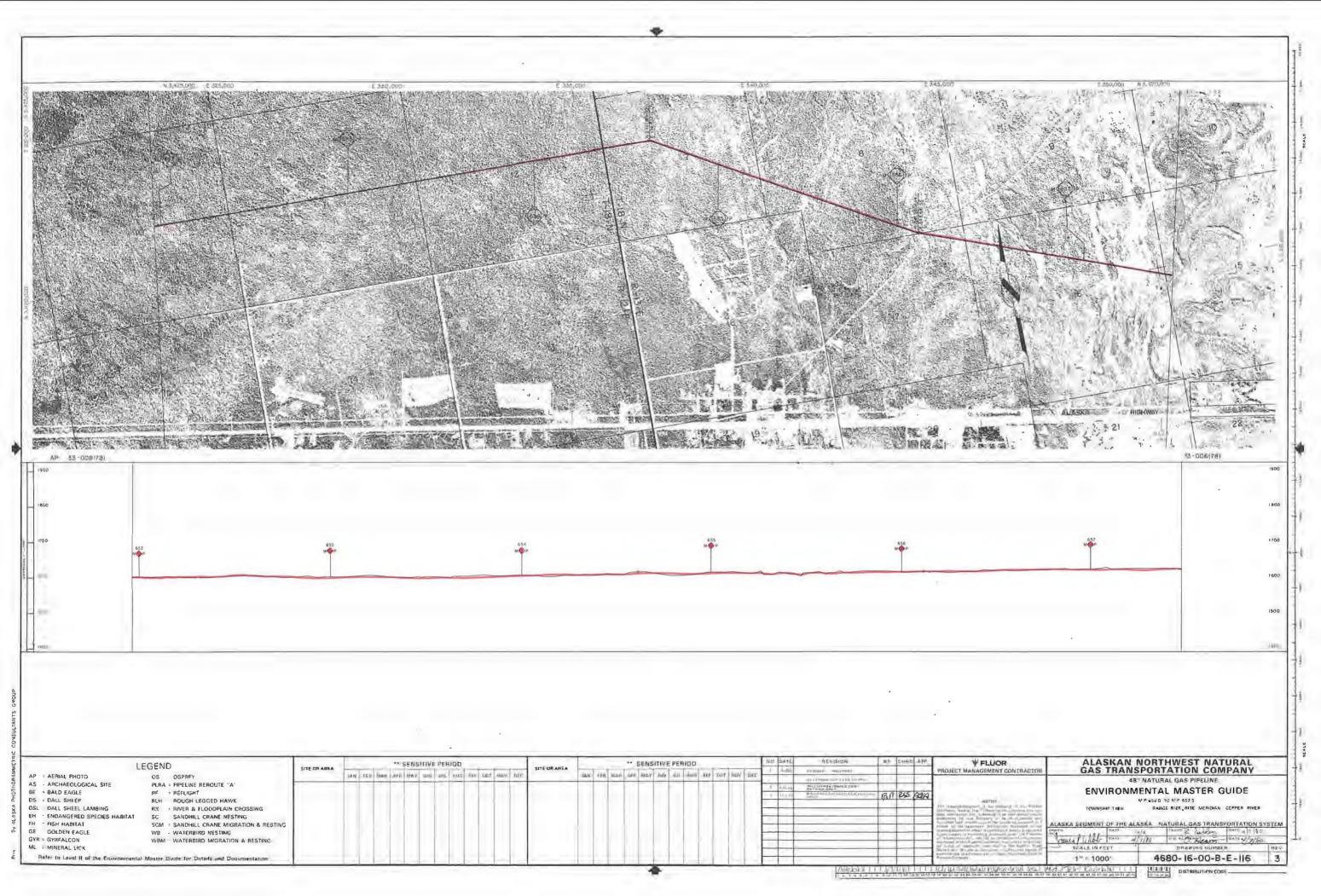


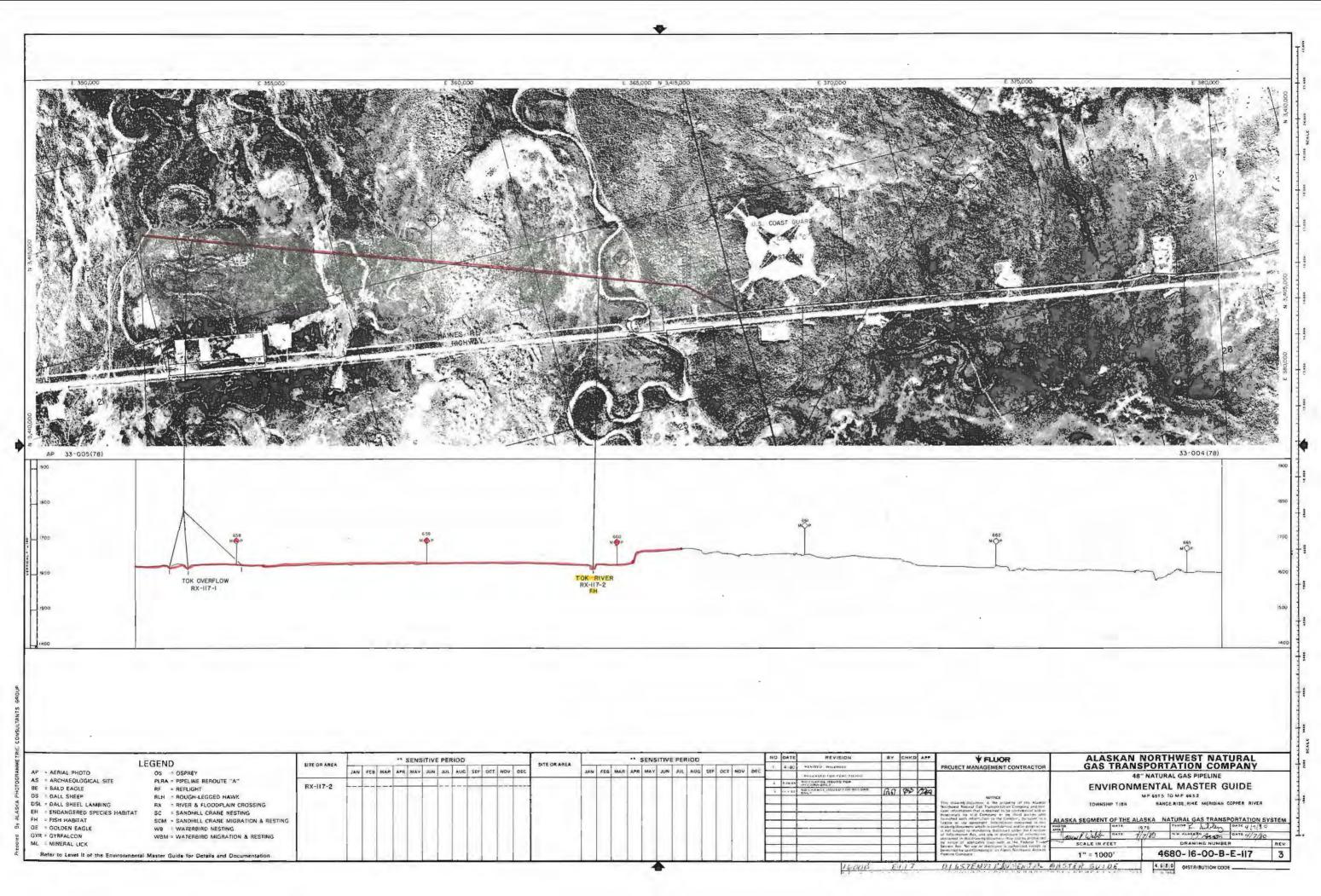


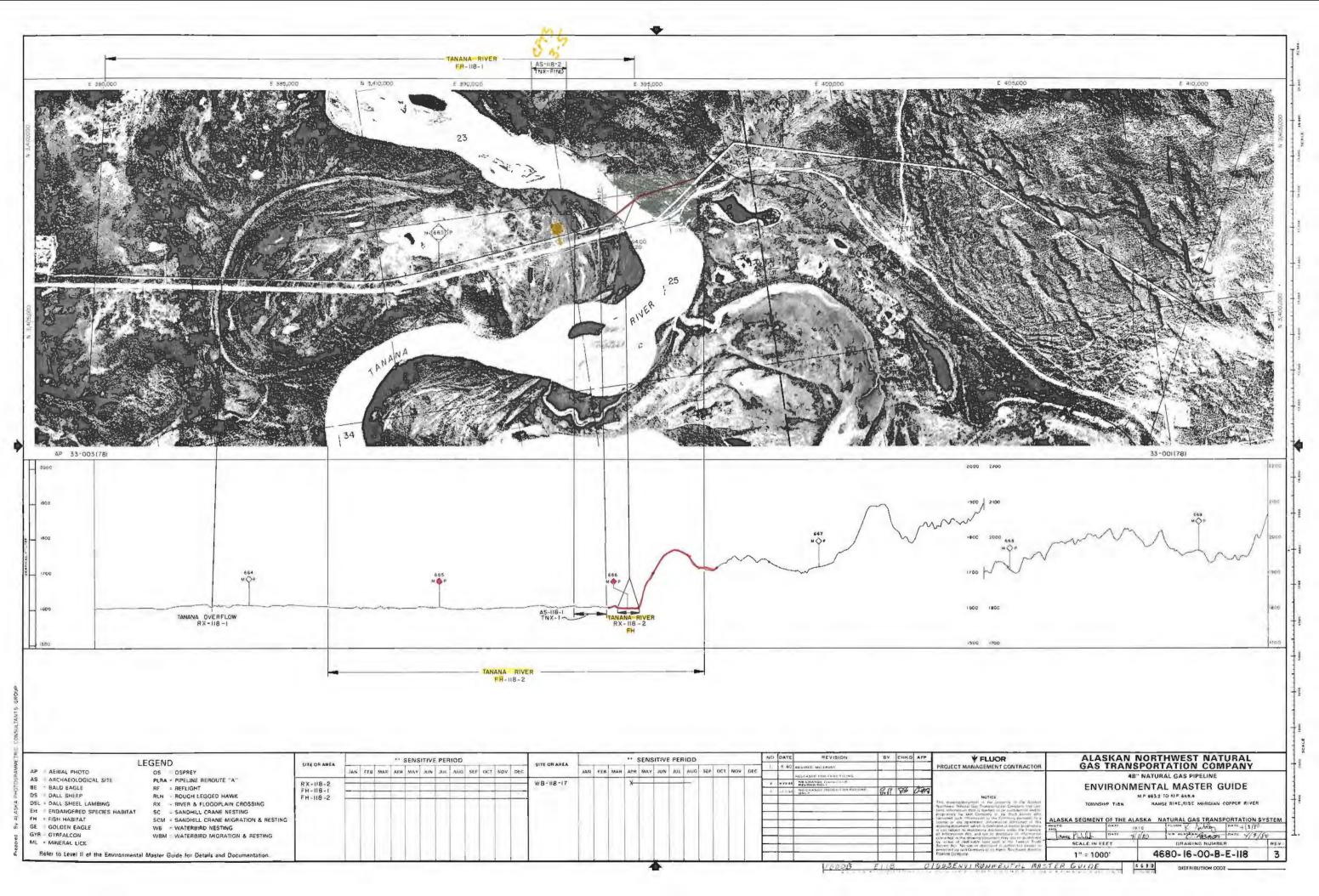


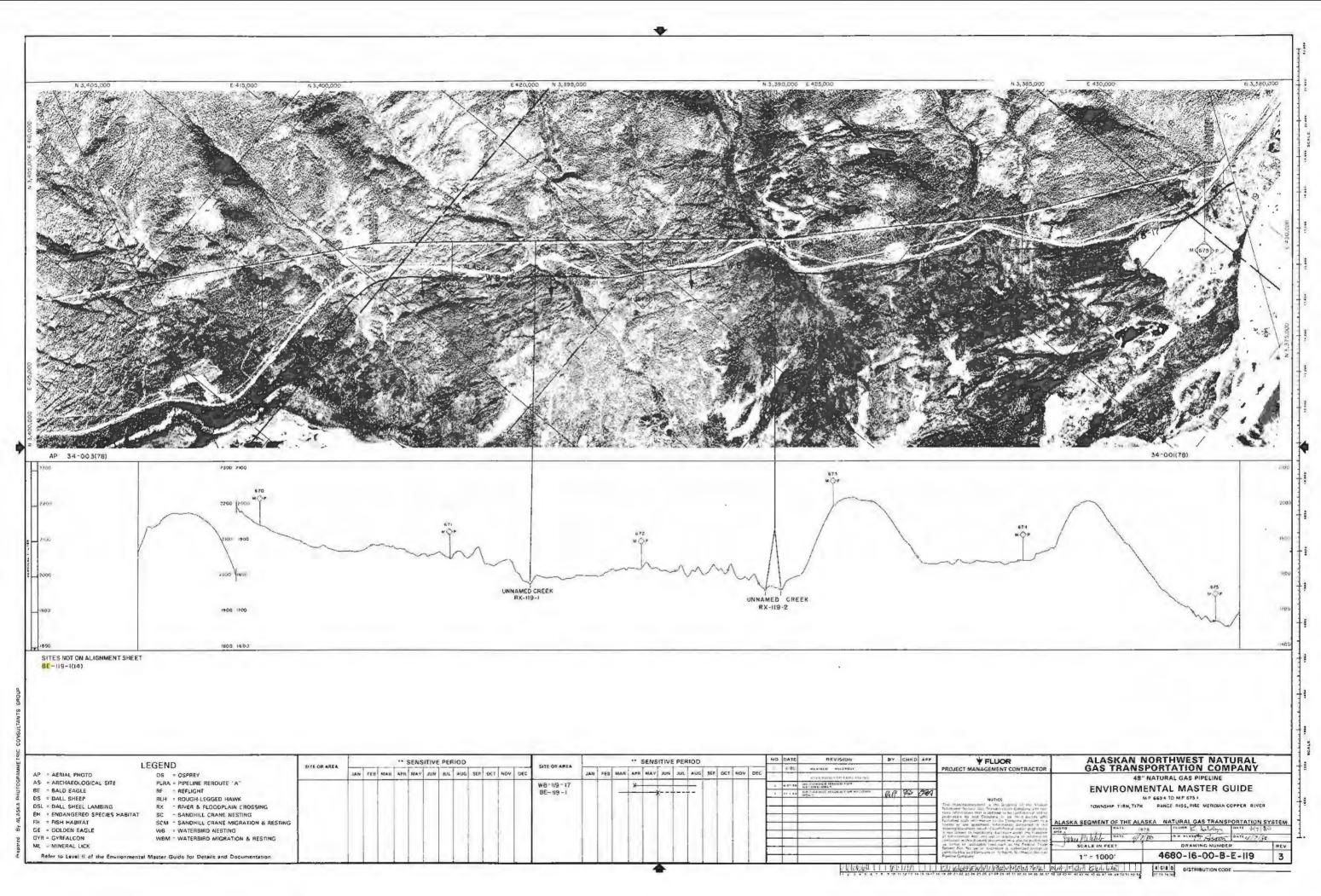


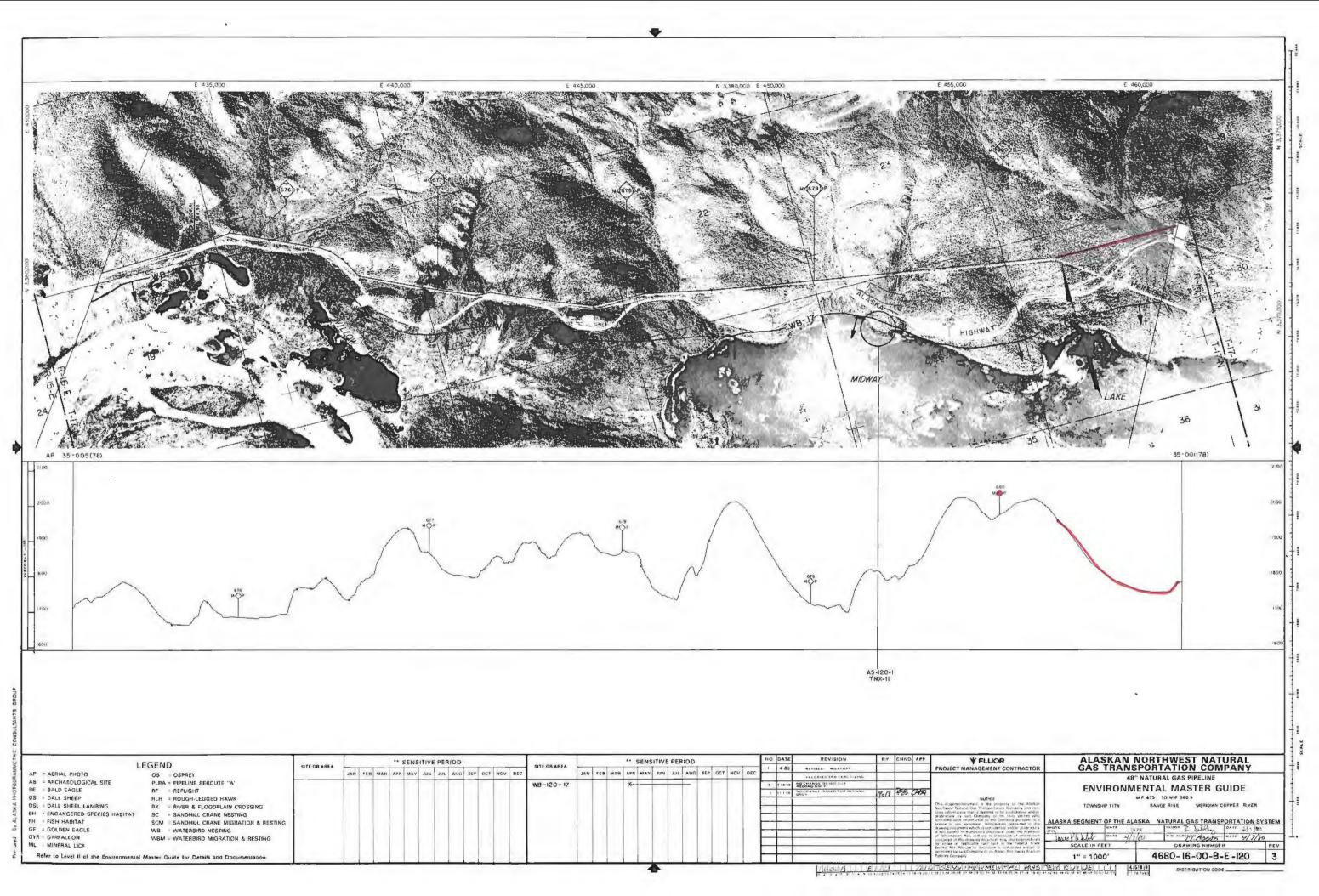


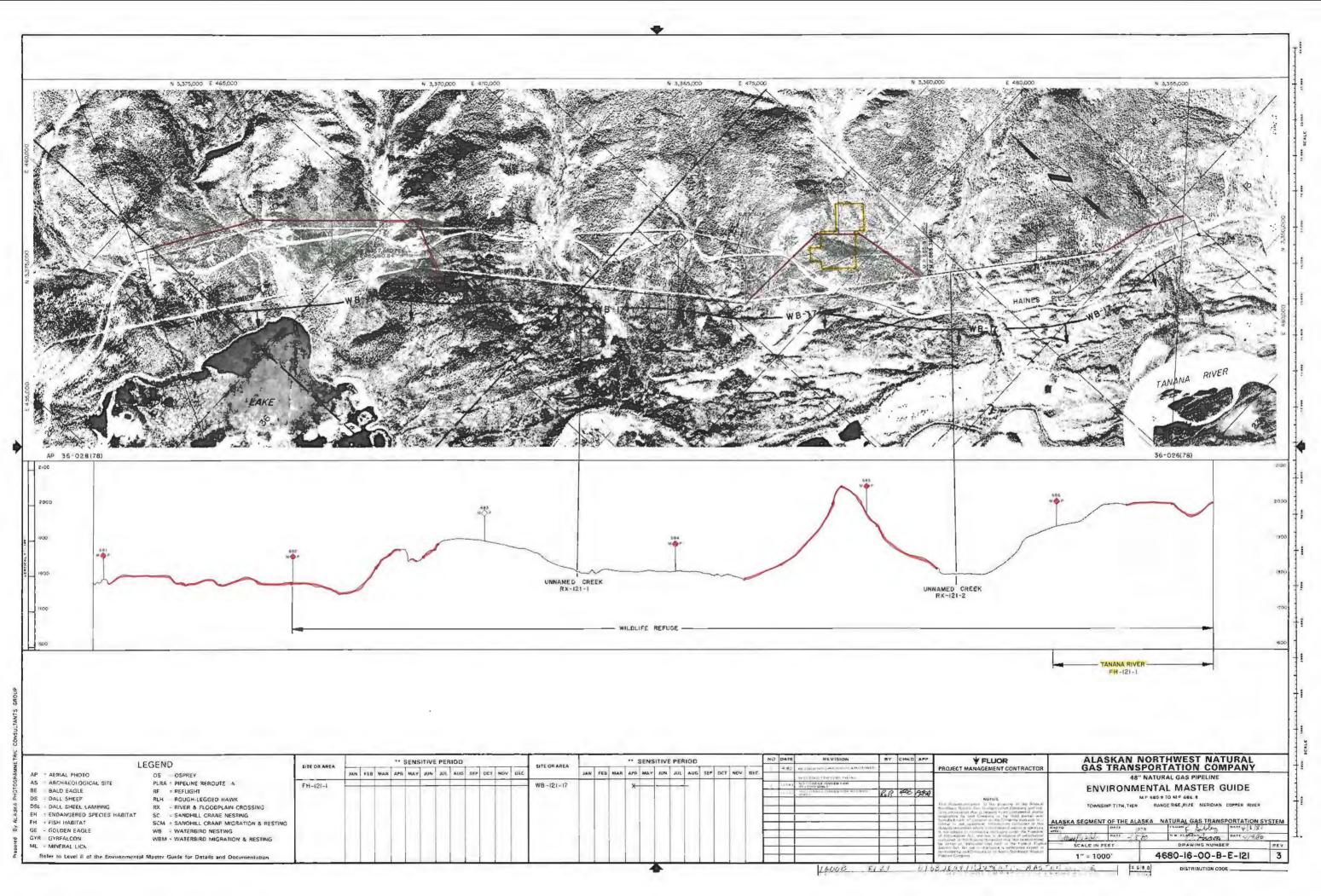


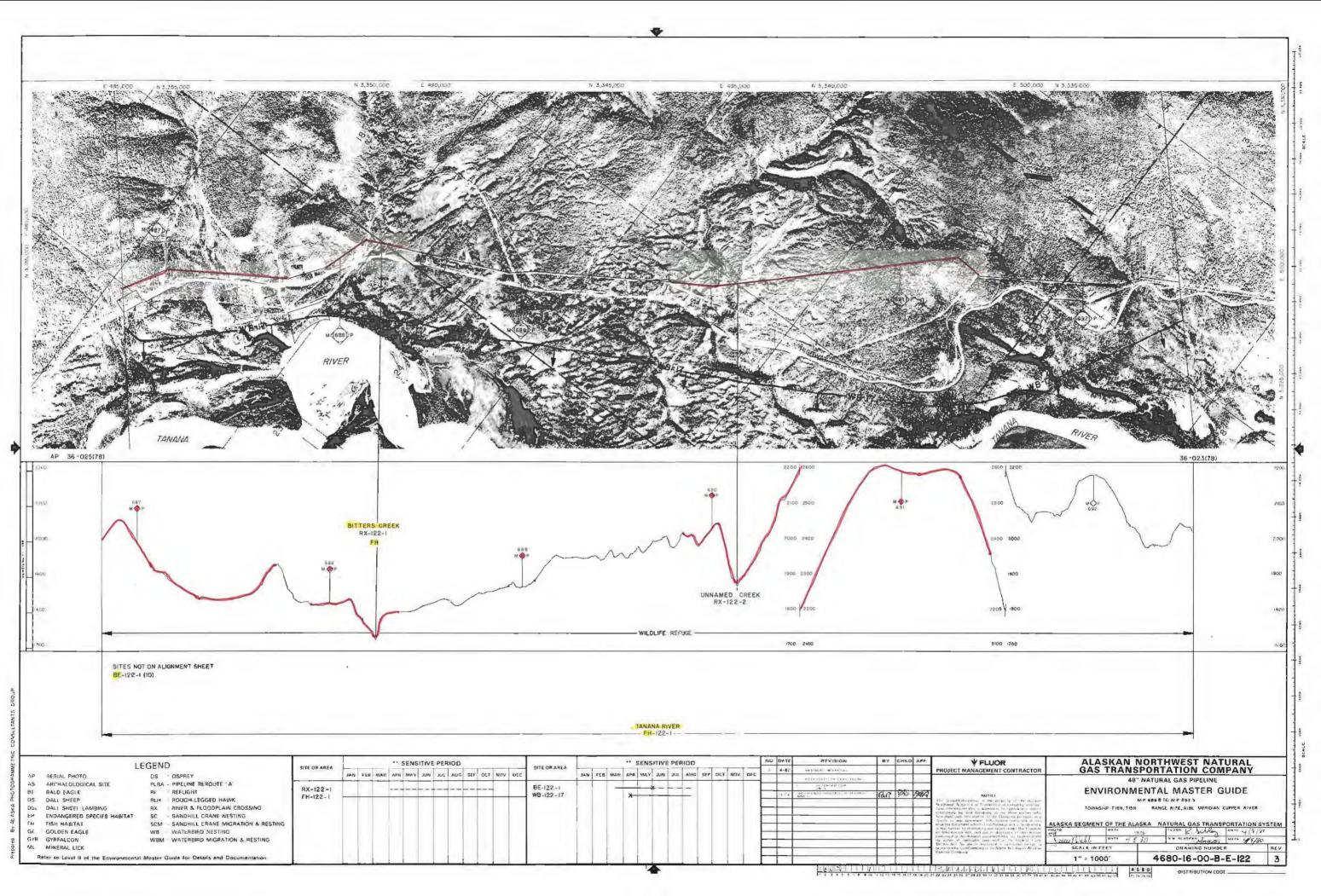


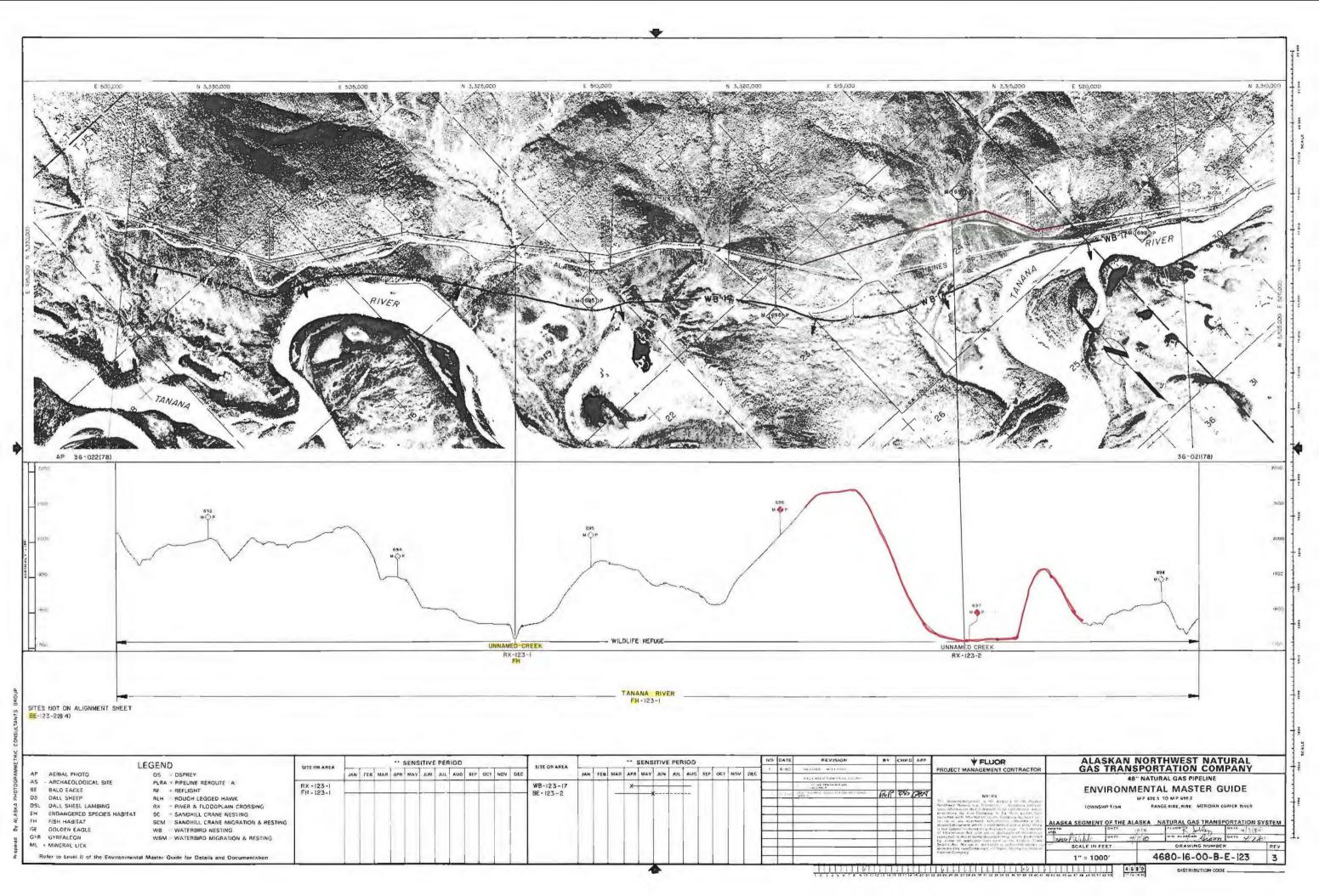


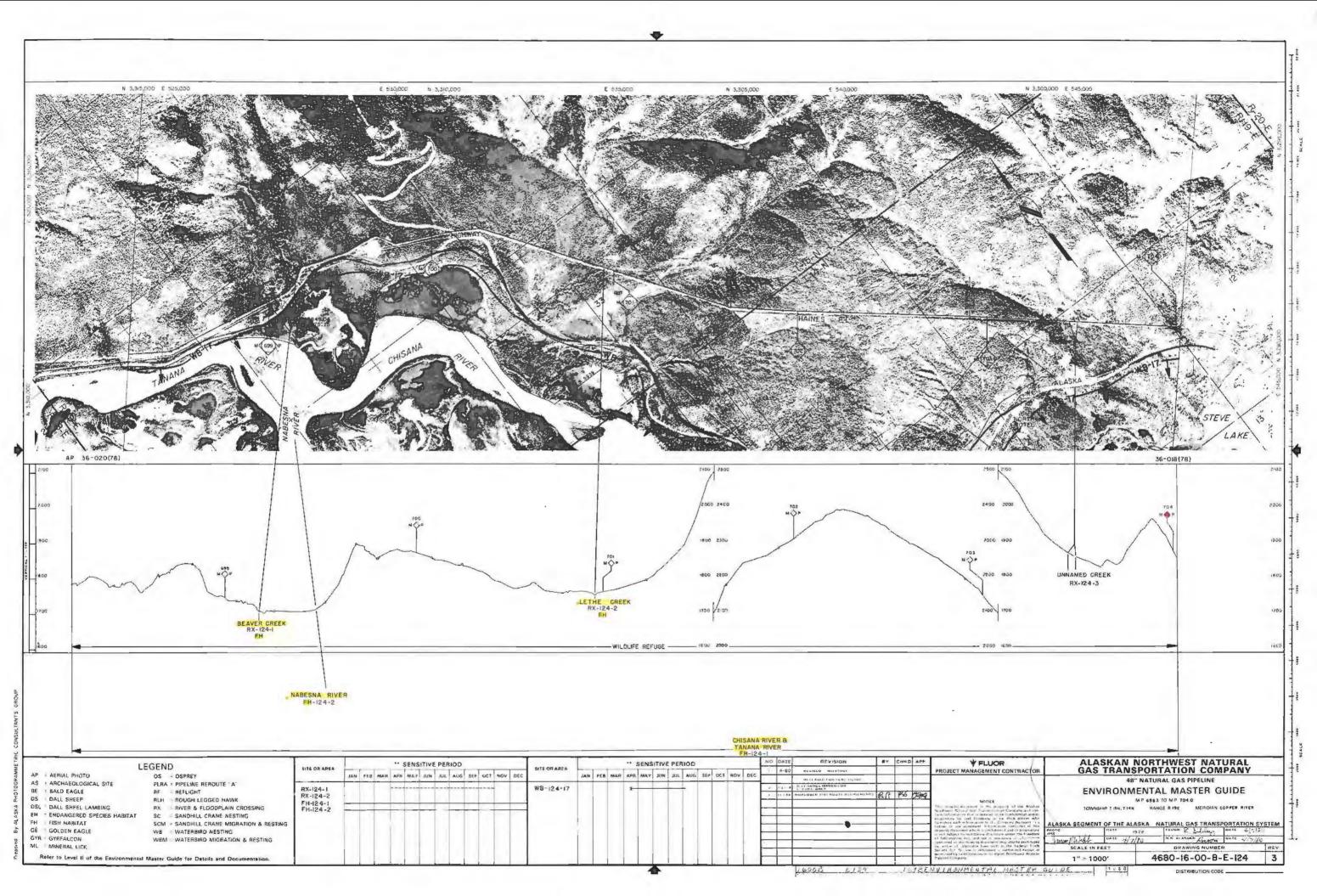


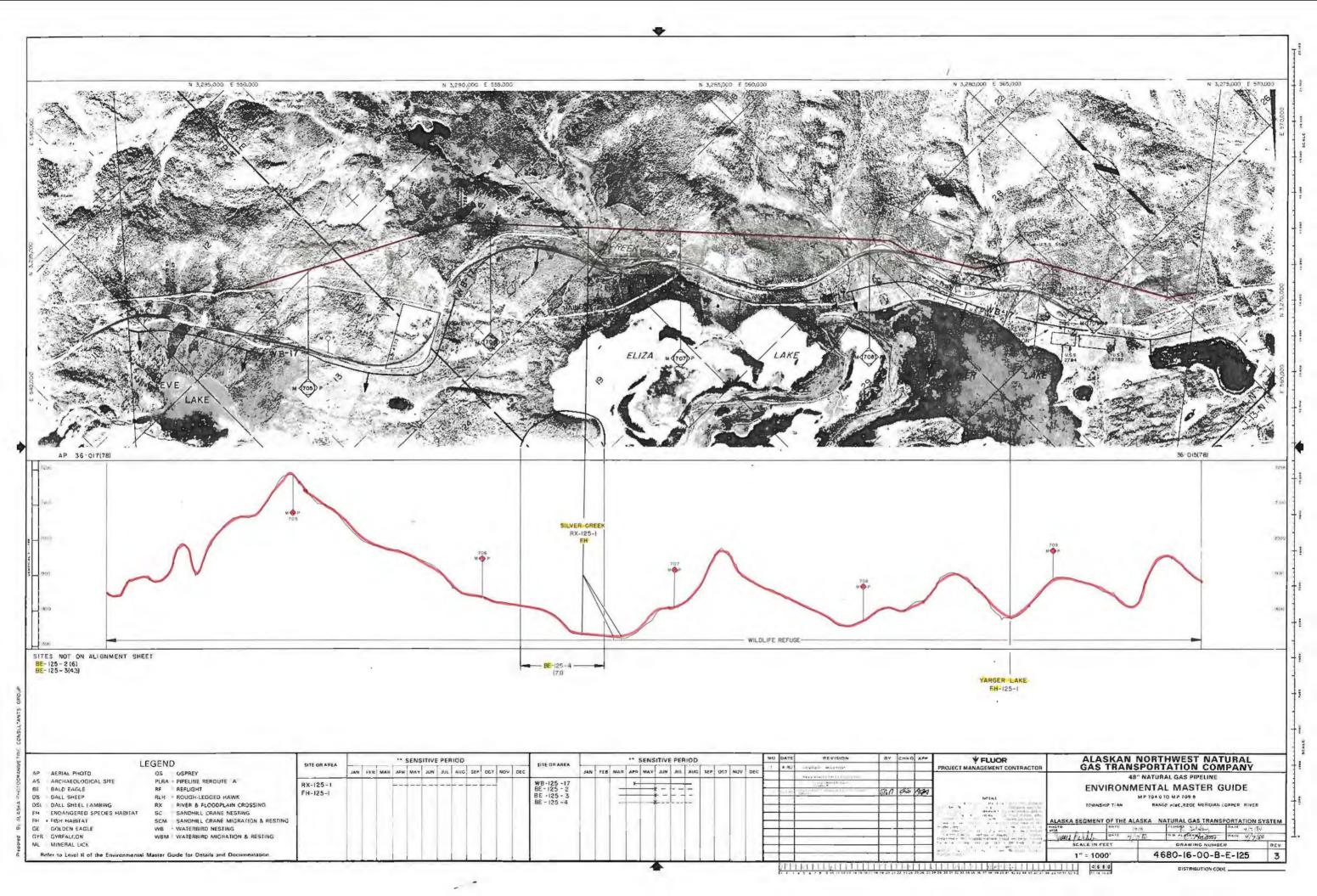


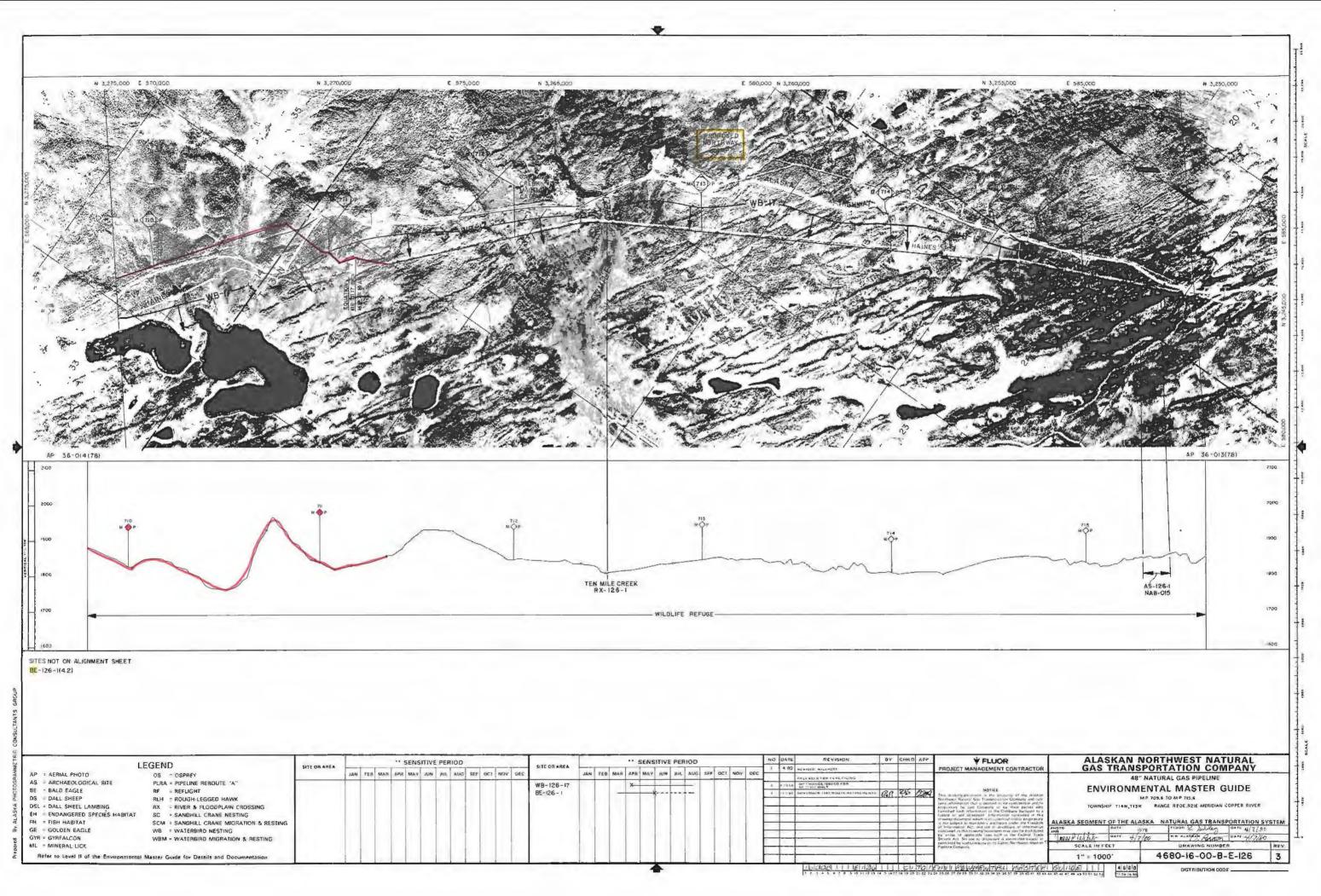


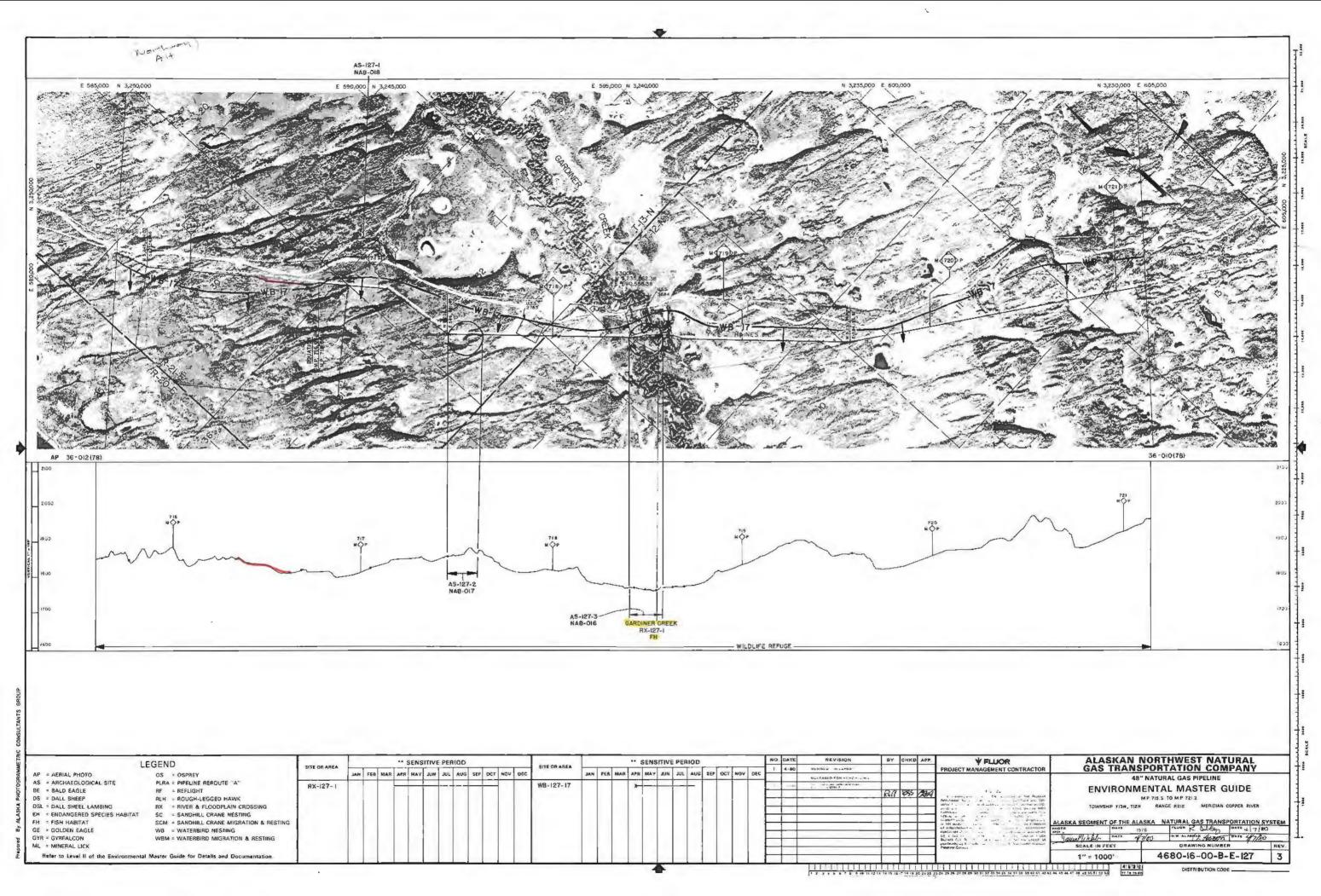


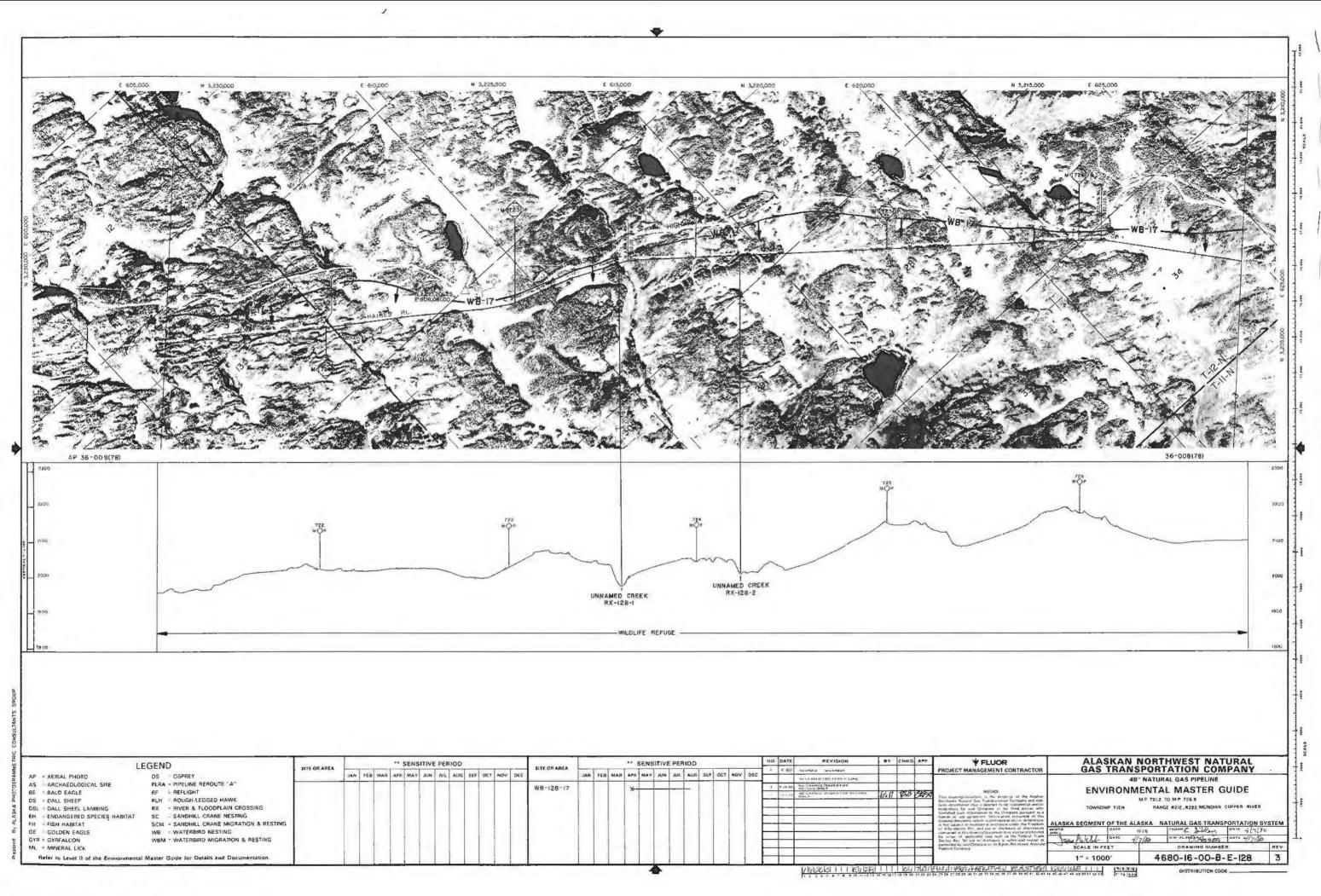


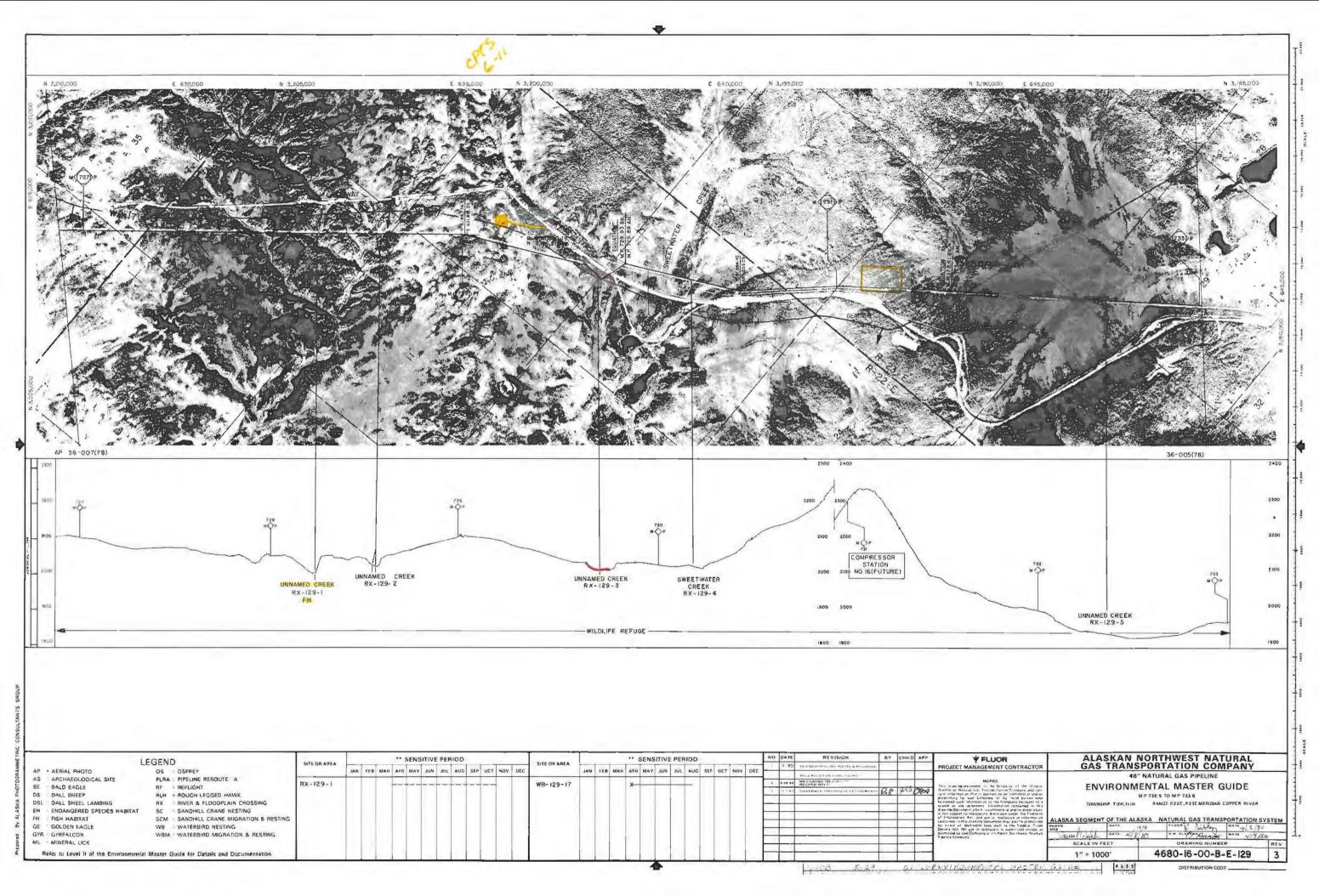


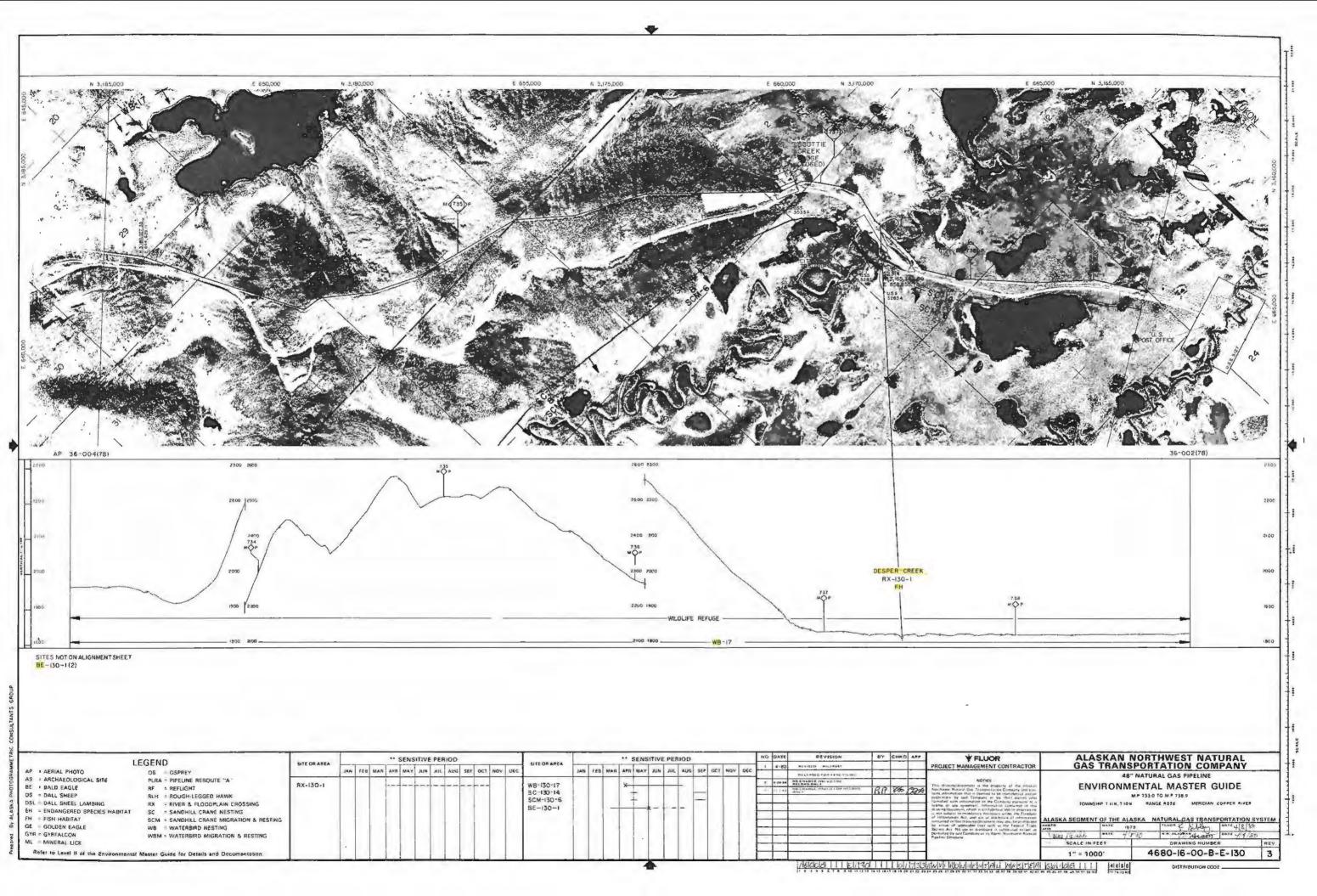


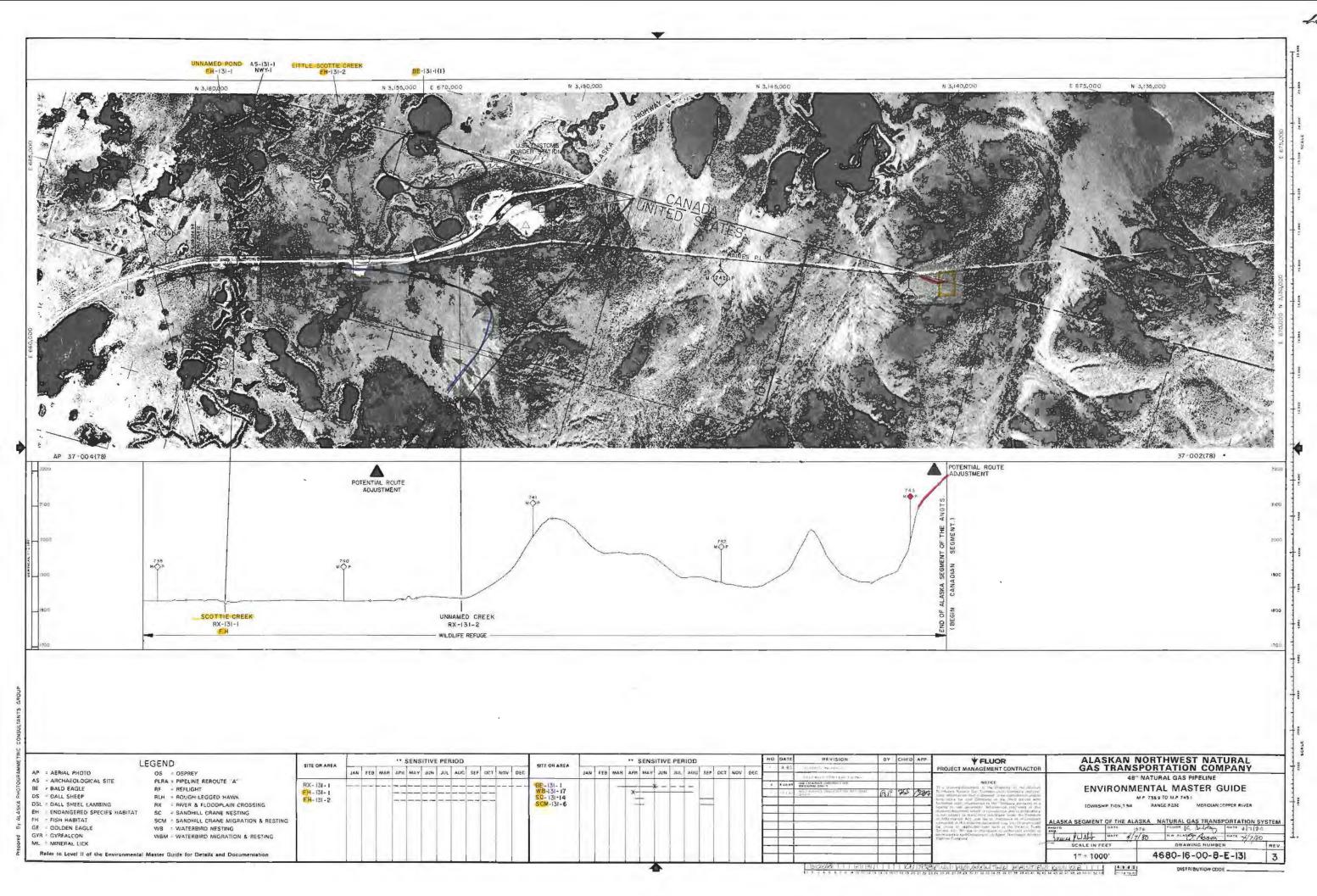


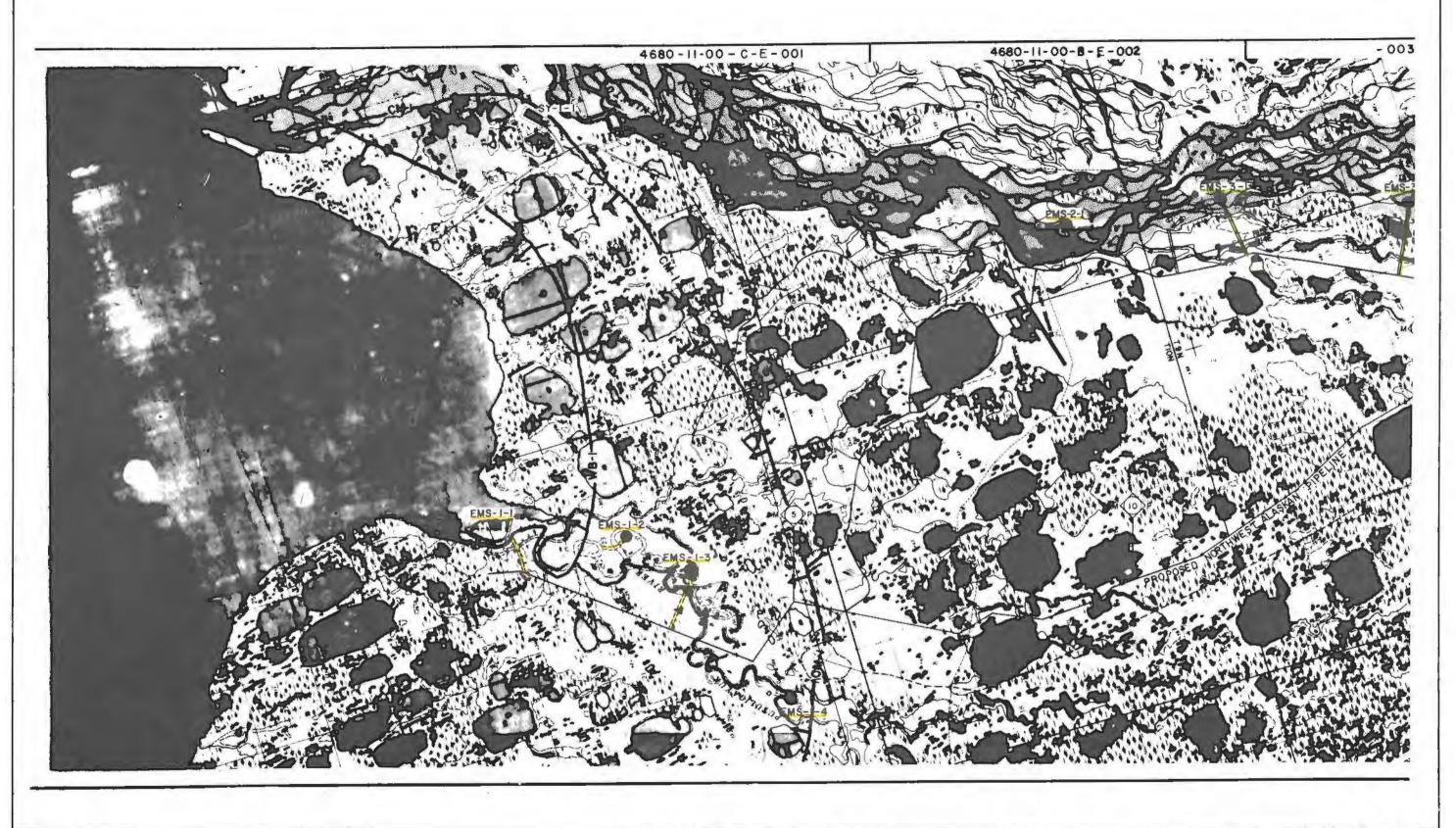












ARCHAEOLOGICAL SITE

BISON MABITAT

BISON MOVEMENT

BLACK BEAR

BALD EAGLE

CARIBOU HABITAT

CARIBOU CALVING

CARIBOU MOVEMENT

DALL SHEEP HABITAT

DALL SHEEP LAMBING

DALL SHEEP MOVEMENT

ENDANGERED SPECIES HABITAT

EXPLORATION MATERIAL SITE

GRIZZLY BEAR

GOLDEN EAGLE

GREAT GRAY OWL

LEGEND

GNO GREAT HORNED OWL
GOS GOSHAWK
GYB GYRFALCON
M MOOSE HABITAT
MC MOOSE CALVING
MM MOOSE WOVEMENT
ML MINERAL LICK
MP MILE POST

OS — GSPREY
RLH — ROUGH-LEGGED HAWK
RTH — RED-TAILED HAWK
SC — SANDHILL CRANE NESTING
SCM — SANDHILL CRANE MIGRATION & RESTING
SWO — SOLID WASTE DISPOSAL SITE
SY — STORAGE YARD
WB — WATERBIRD NESTING
WBM — WATERBIRD MIGRATION & RESTING

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3 II-I-BO NOVEMBER 1980 ROUTE REFINEMENTS

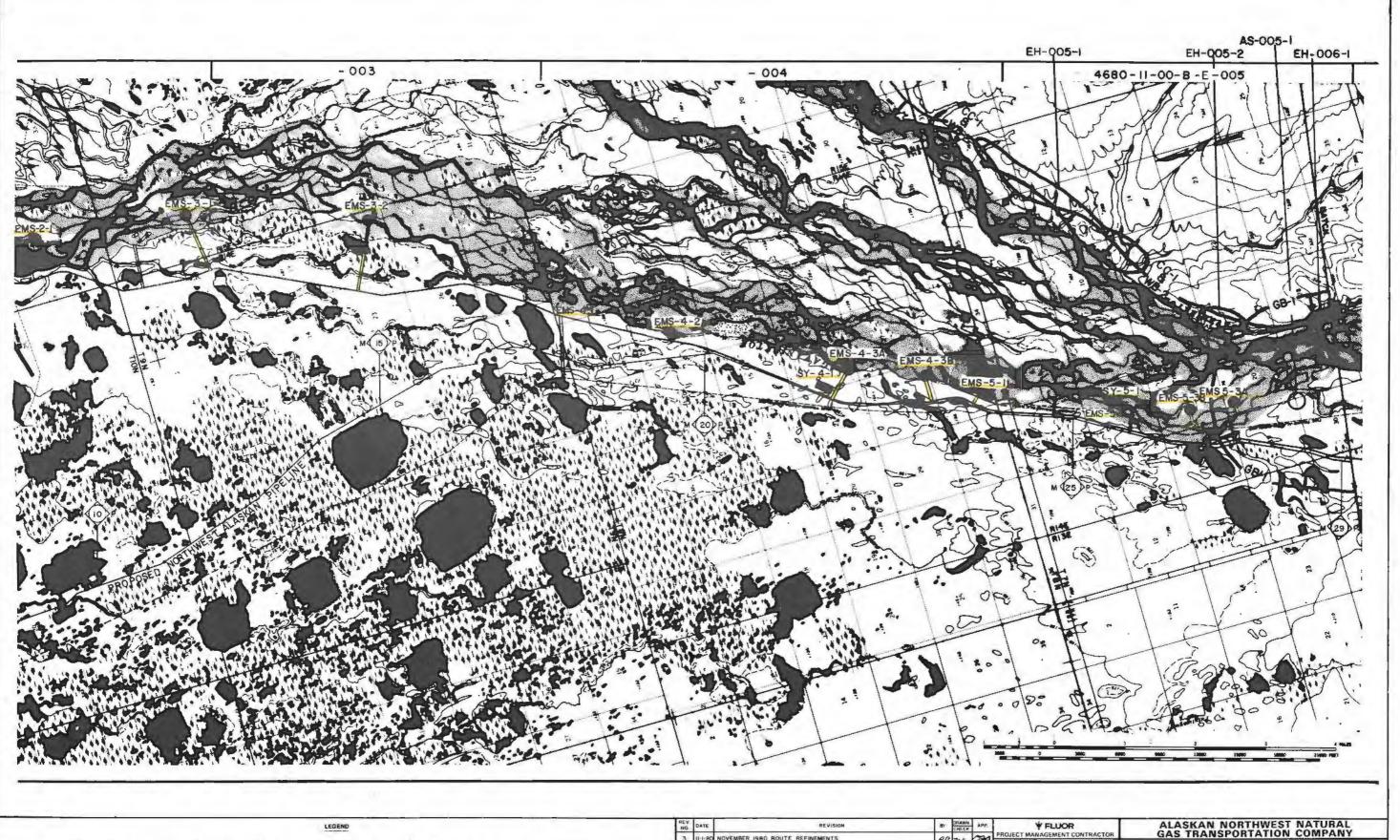
REVISION

ALASKAN NORTHWEST NATURAL GAS TRANSPORTATION COMPANY ENVIRONMENTAL MASTER GUIDE

TOPOGRAPHIC SUPPLEMENT

4680-II-30-E-E-00I A

" = 5280"



AS — ABCHAEOLOGICAL SITE
B — BISON HABITAT
BM — BISON MOVEMENT
BB — BLACK BEAR
BE — BALO EAGLE
C — CARIBOU HABITAT
CC — CARIBOU CALVING
CM — CARIBOU MOVEMENT

OS -- DALL SHEEP HABITAT

DSL -- DALL SHEEP LAMBING

DSM -- DALL SHEEP MOVEMENT

EH -- ENDANGERED SPECIES HABITAT

EMS -- EXPLORATION MATERIAL SITE

GB -- GRIZZLY BEAR

GE -- GOLDEN EAGLE

GGO -- GREAT GRAY OWL

GHO — GREAT HORNED OW
GOS — GOSHAWK
GYR — GYRFALCON
M — MOOSE HABITAT
MC — MOOSE GALVING
MM — MOOSE MOVEMENT
ML — MINERAL LICK
MP — MILE POST OS - OSPREY
RLH - ROUGH-LEGGED HAWK
RTII - HED-TAILED HAWK
SC - SANDHILL CRANE NESTING
SCM - SANDHILL CRANE MIGRATION & RESTING
SWD - SOLID WASTE DISPOSAL SITE
SY - STORAGE YARD
WB - WATERBIRD NESTING
WBM - WATERBIRD MIGRATION & RESTING - GREAT HORNED OWL

3 II-I-BO NOVEMBER 1980 ROUTE REFINEMENTS

ENVIRONMENTAL MASTER GUIDE TOPOGRAPHIC SUPPLEMENT

ALASKA SEGMENT OF THE ALASKA NATURAL GRAS TRANSPORTATION SYSTEM

FILED CONTROL OF THE ALASKA NATURAL GRAS TRANSPORTATION SYSTEM

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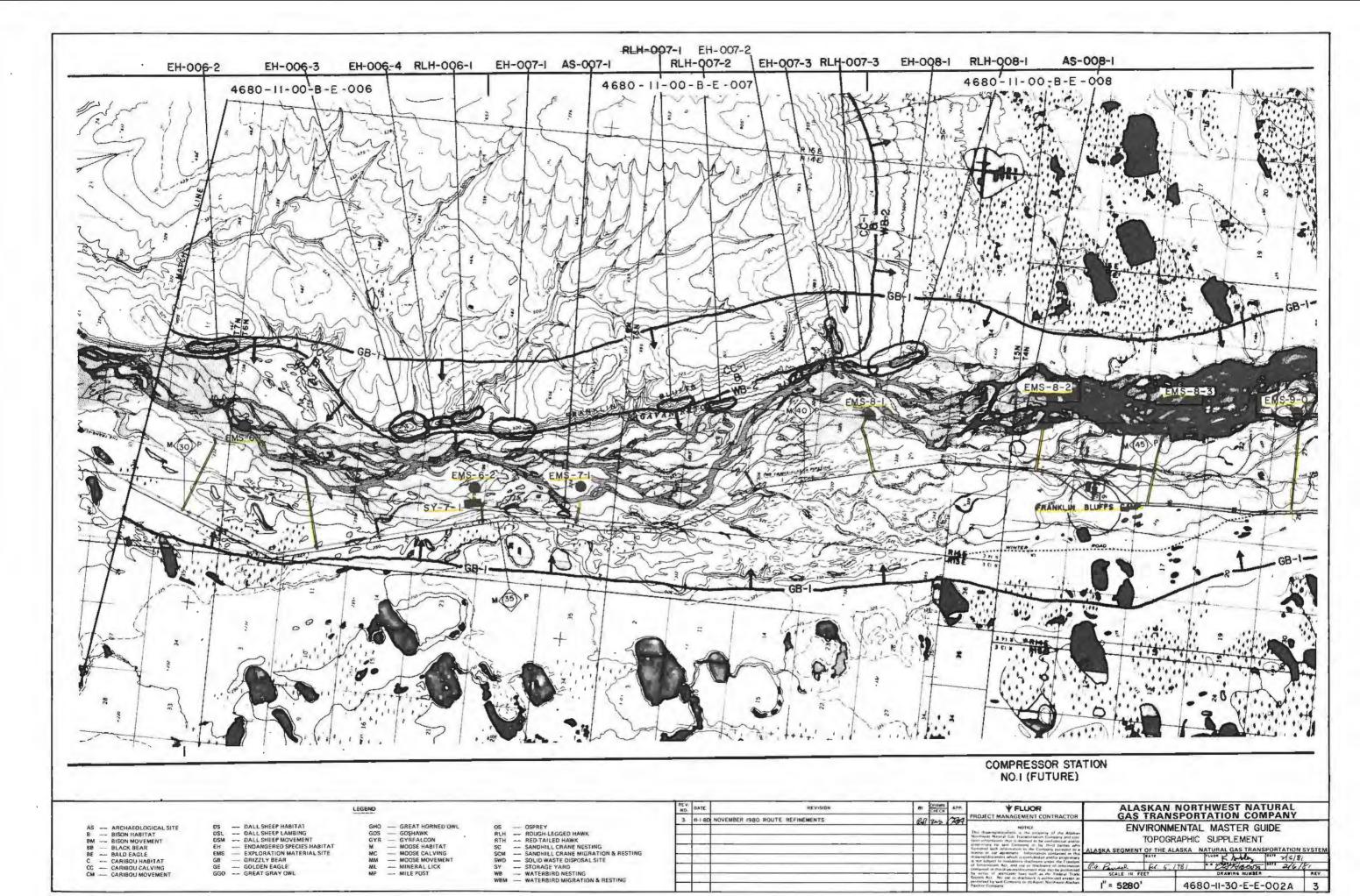
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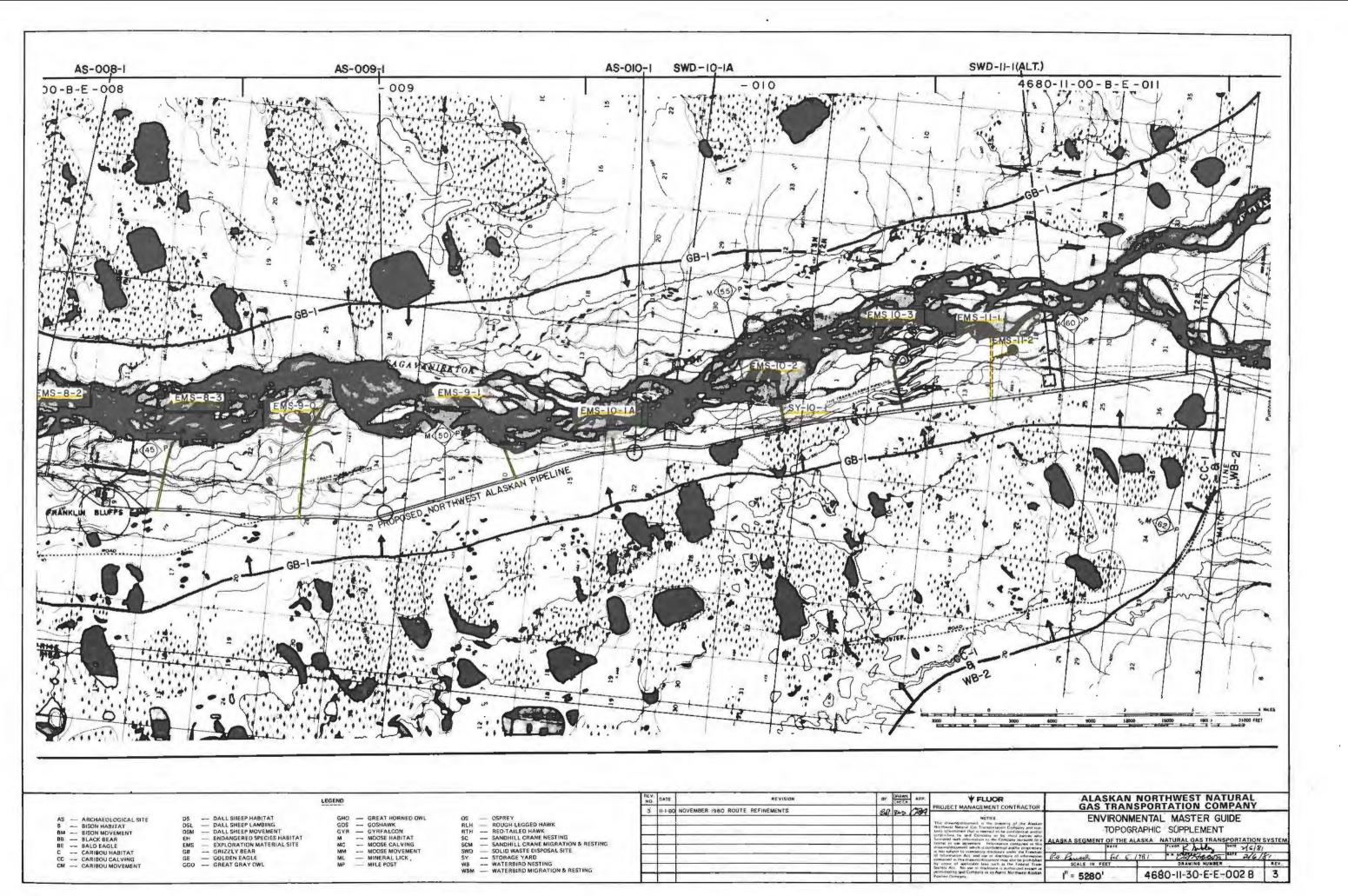
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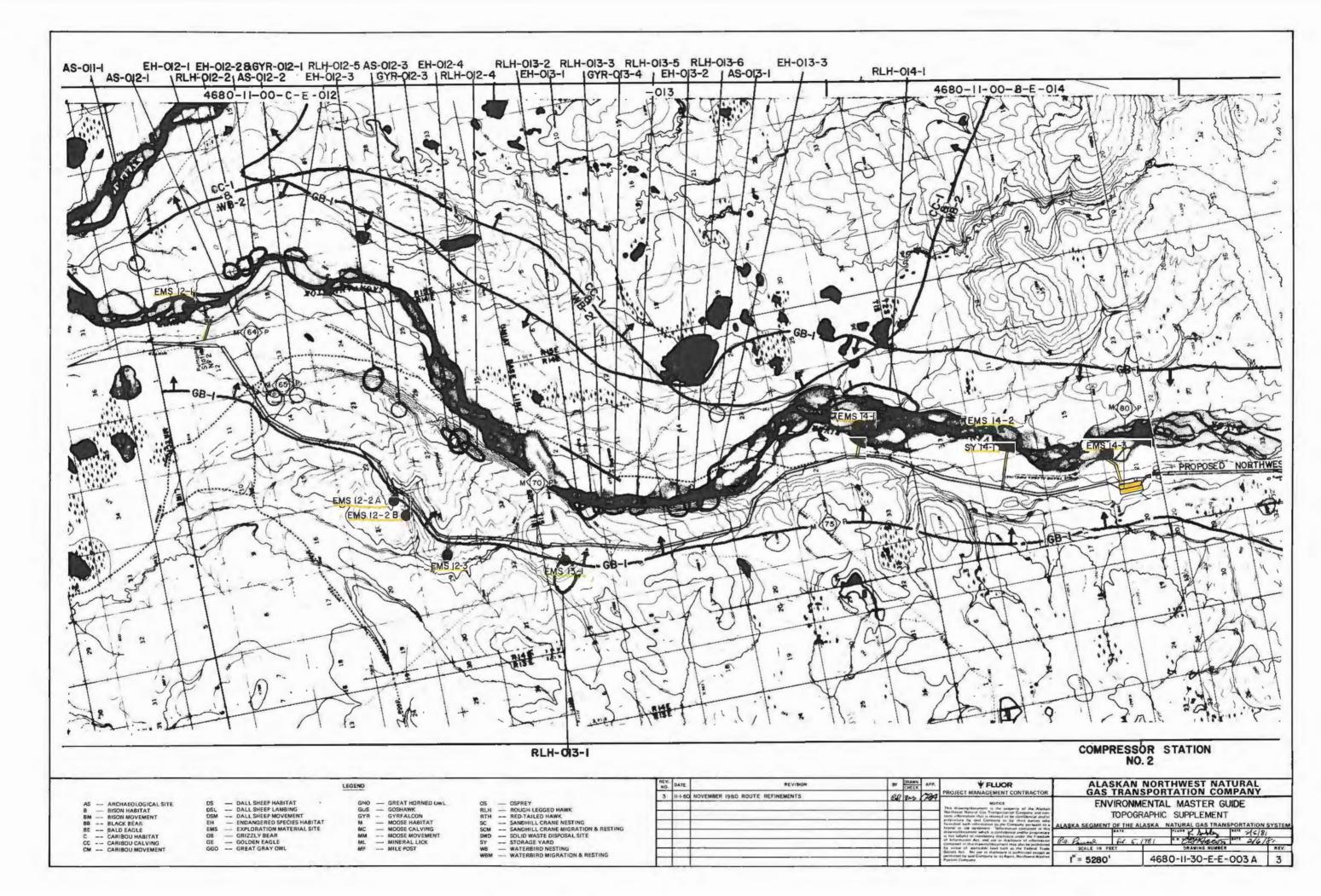
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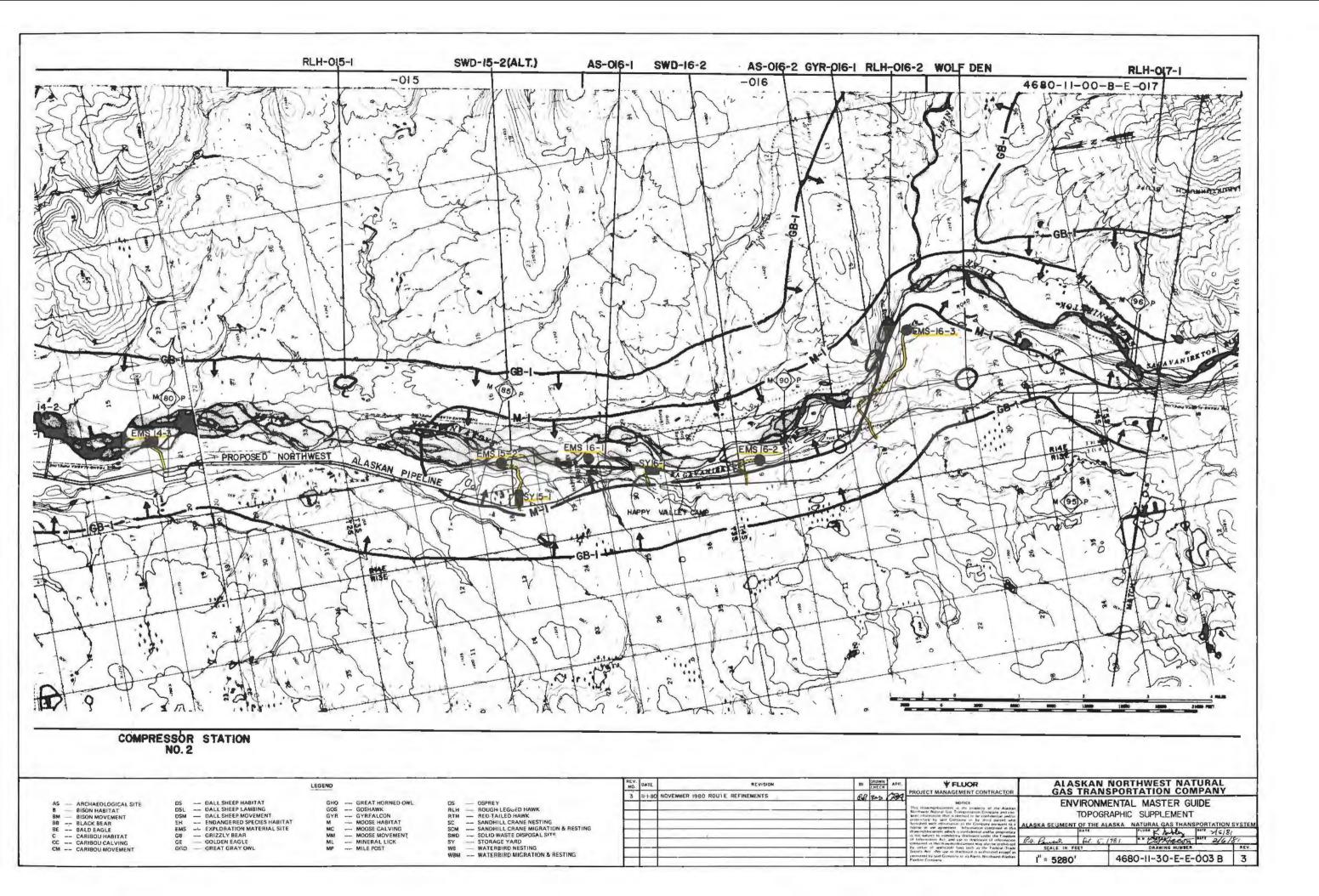
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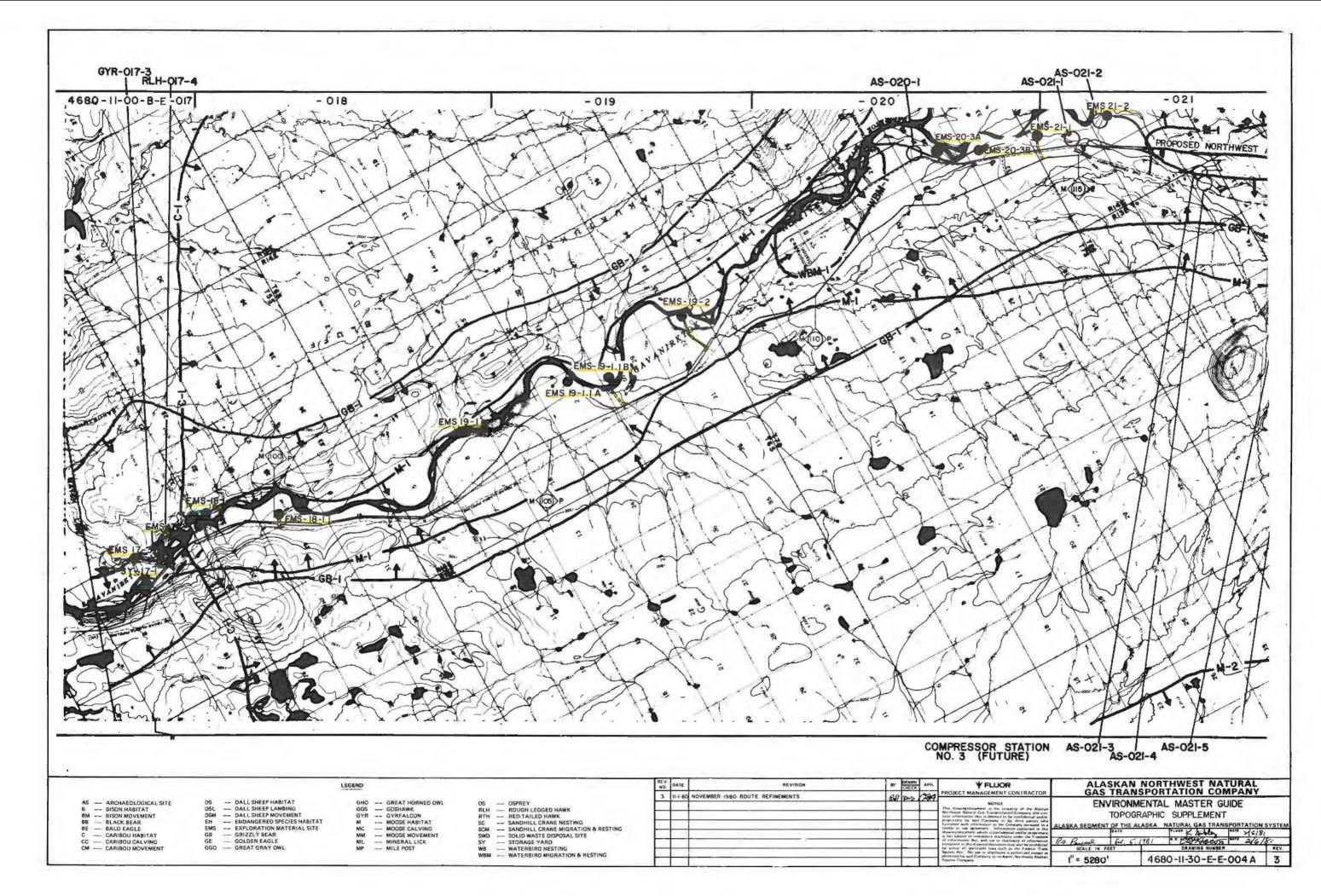
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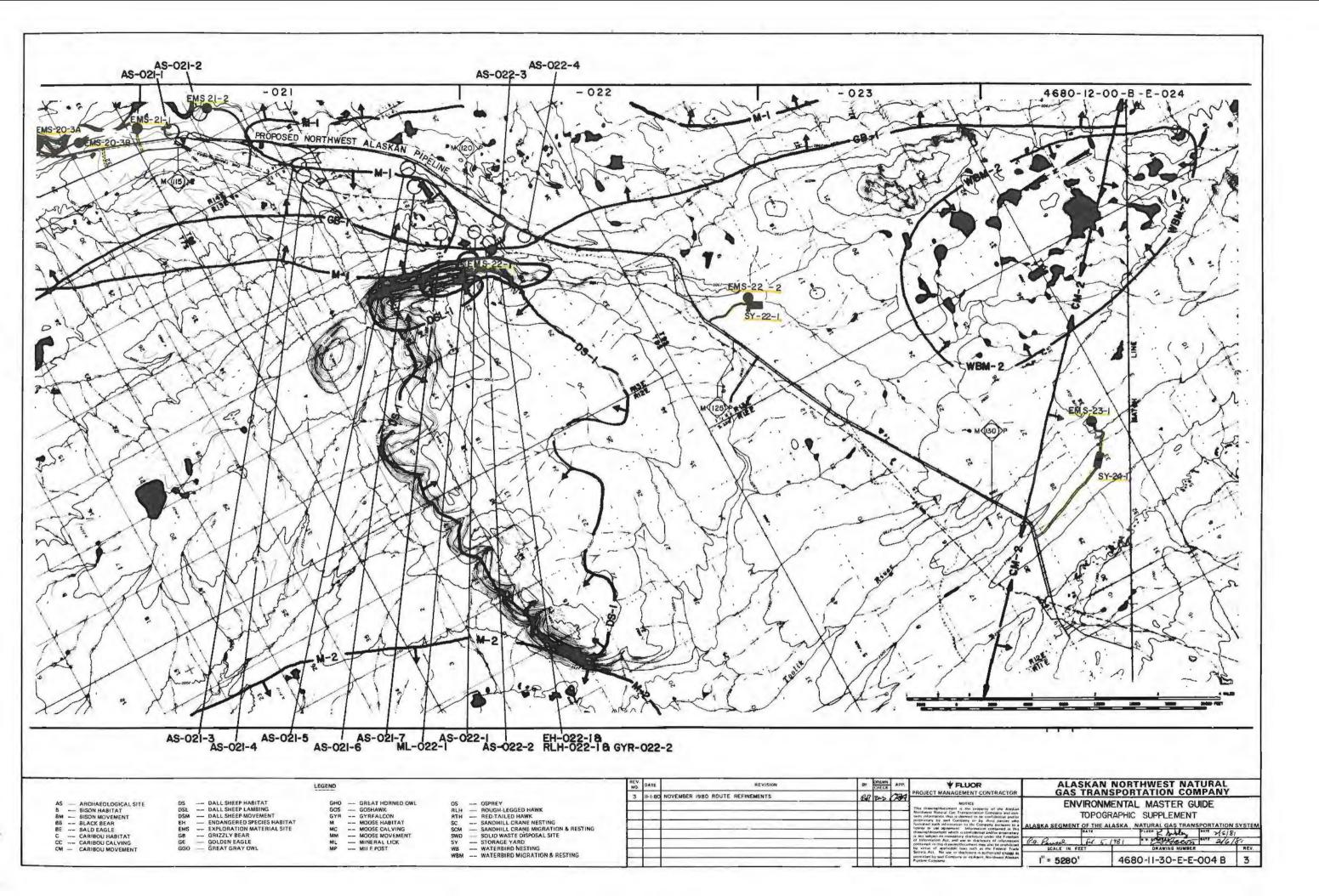


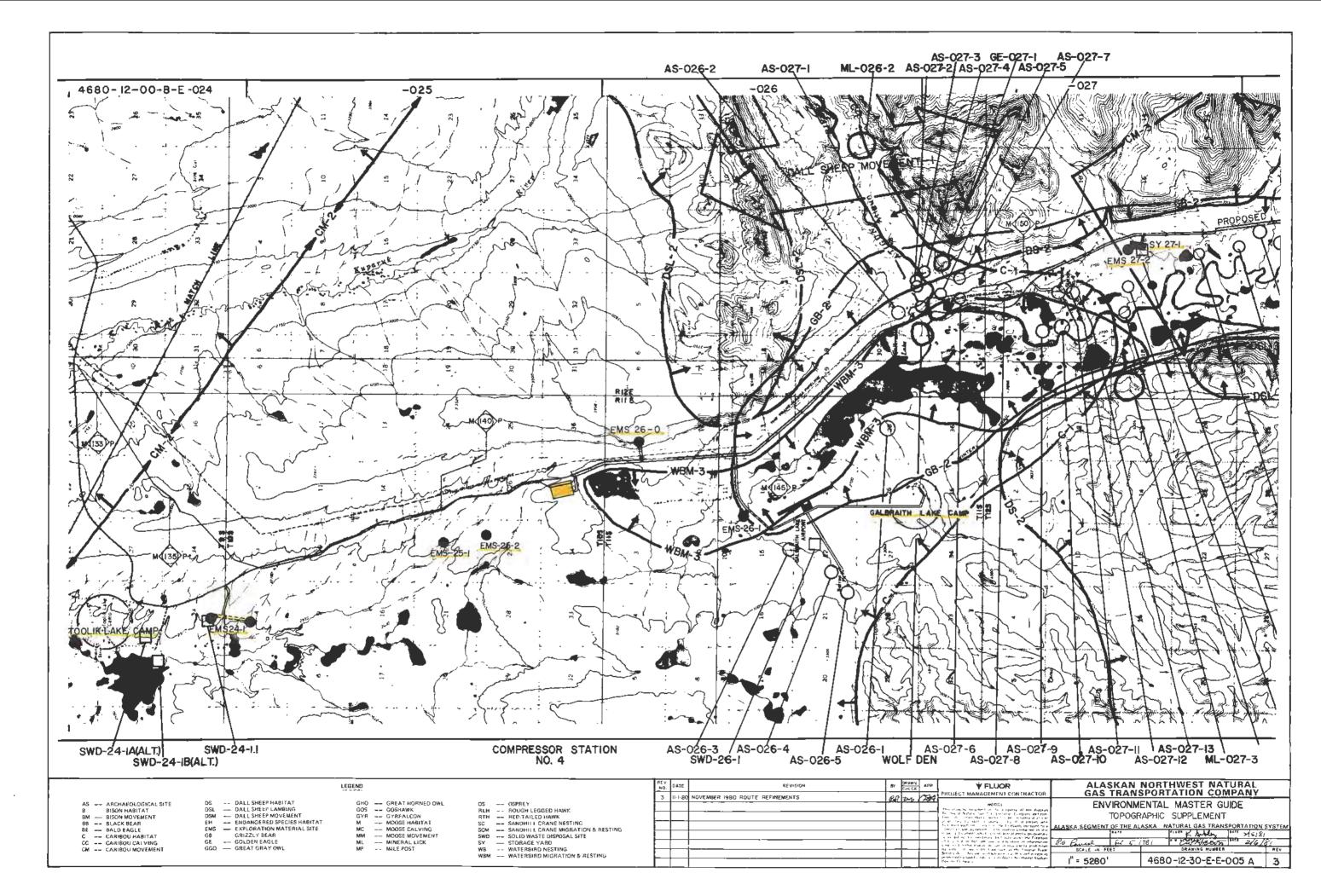


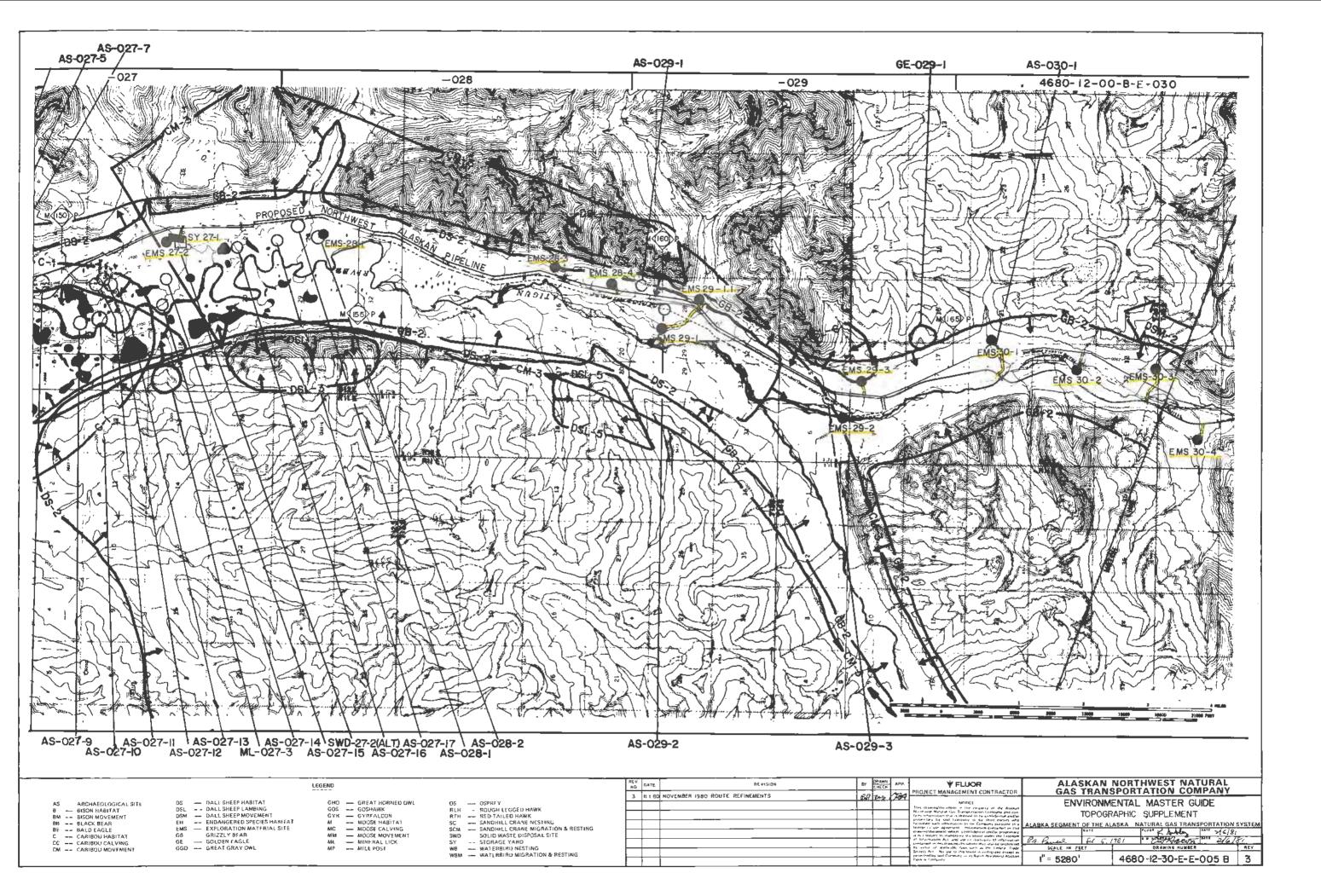


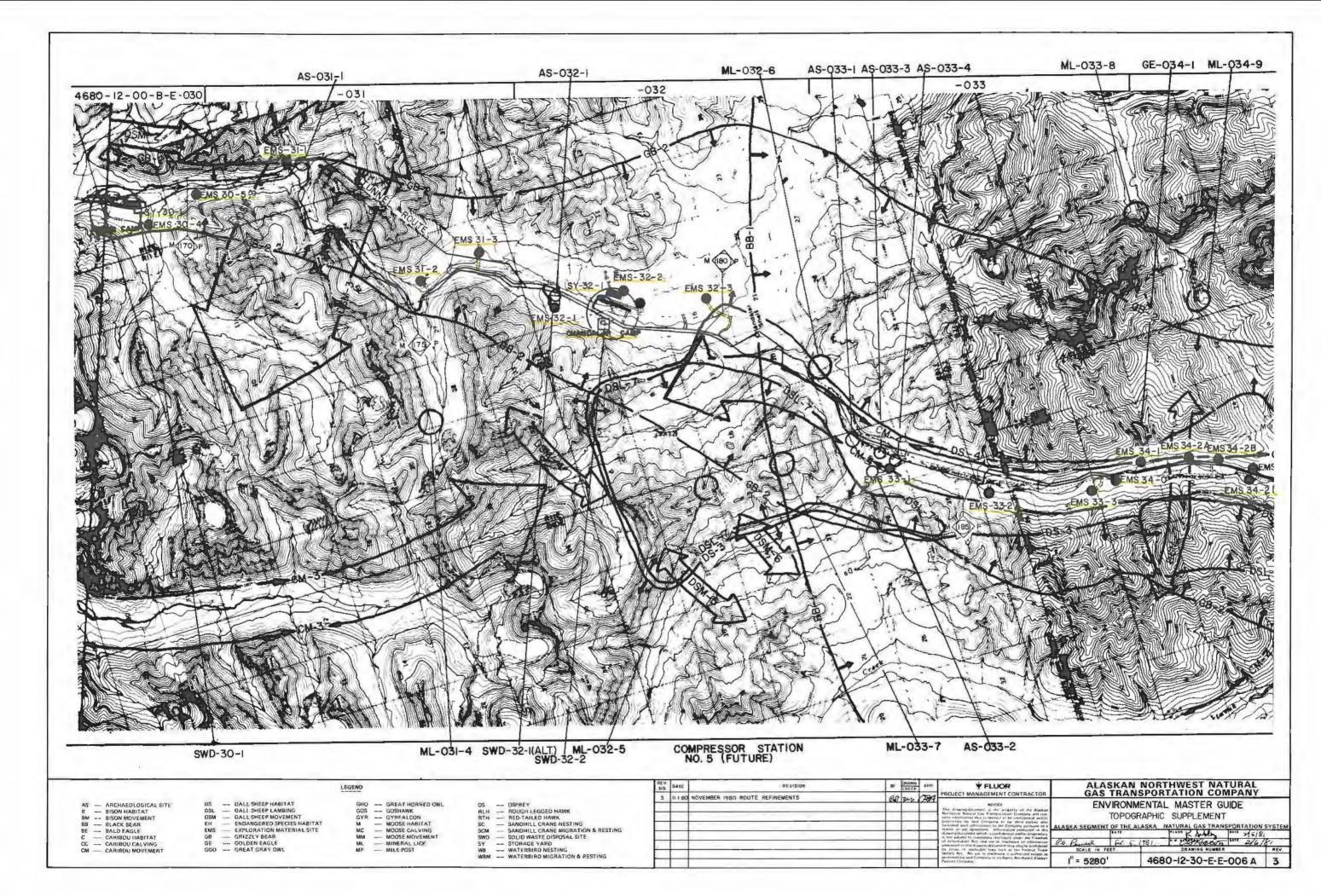


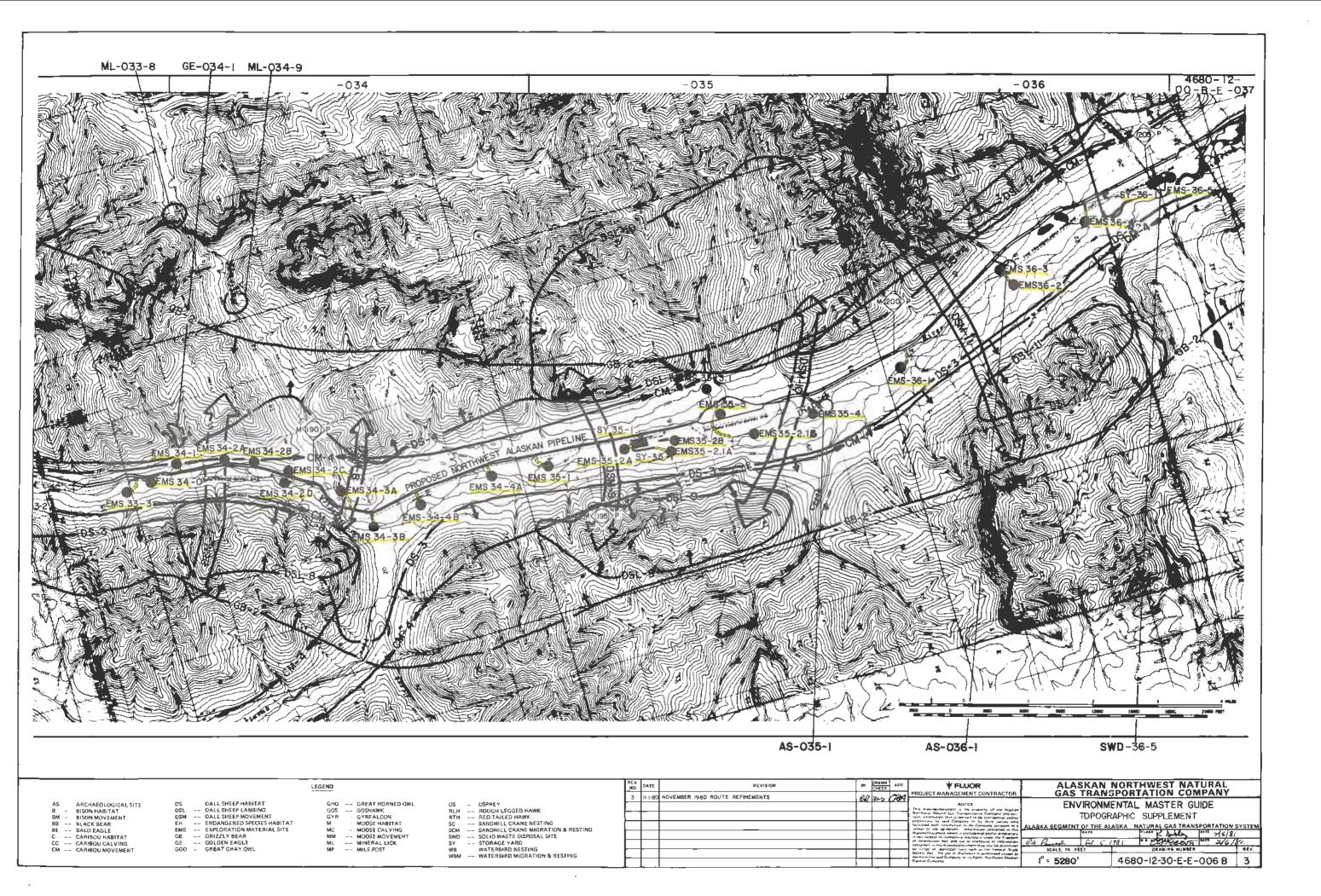


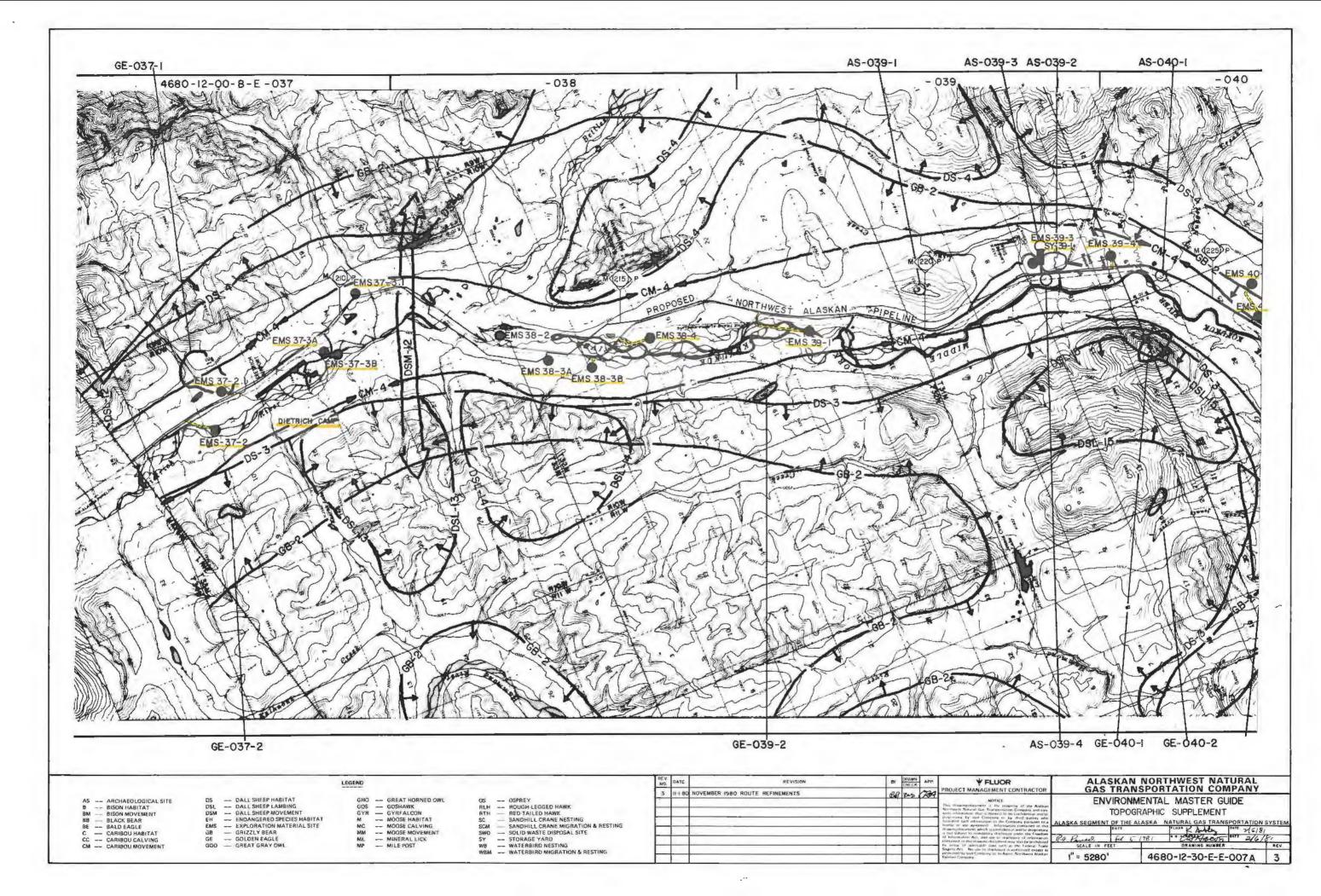


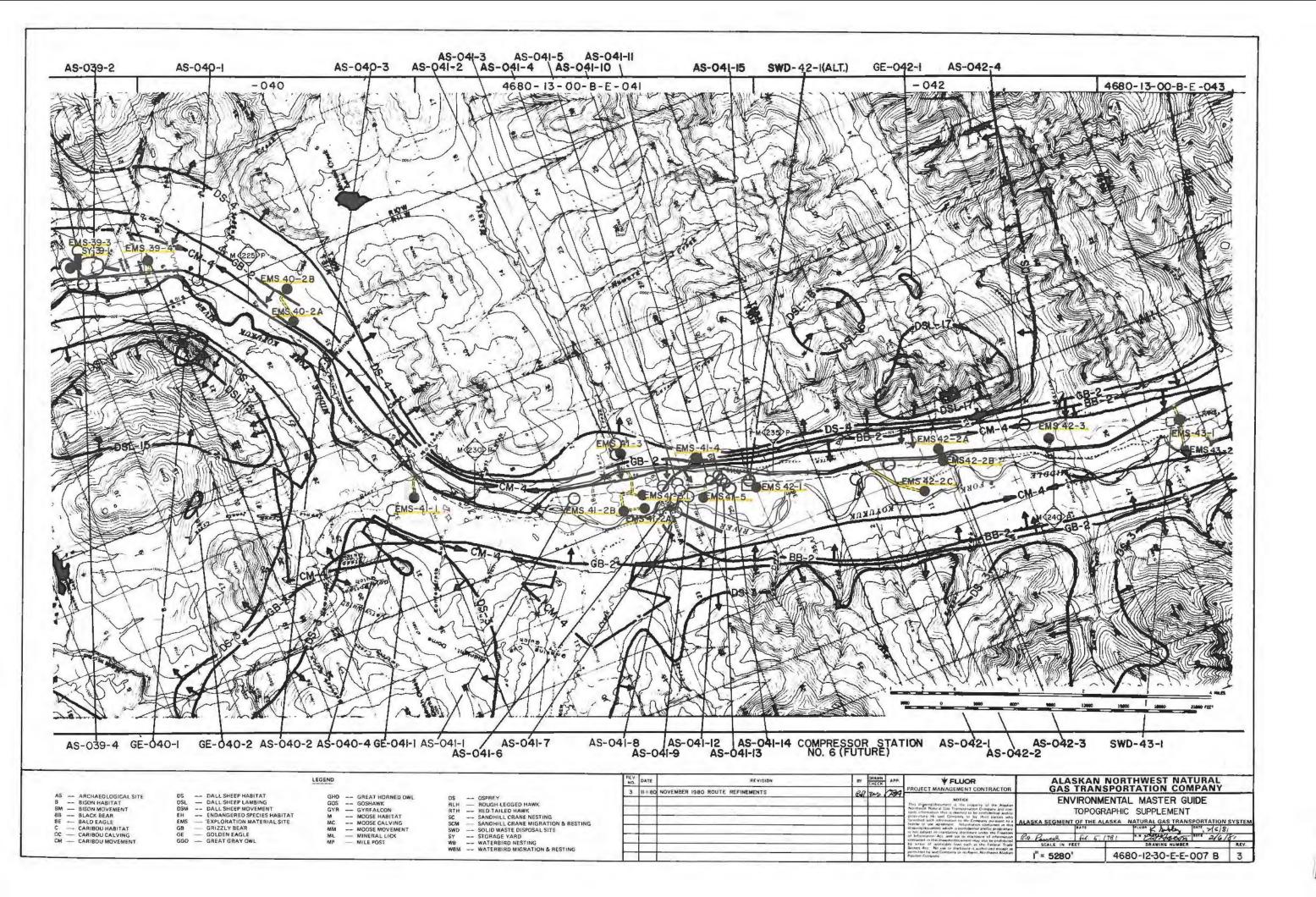


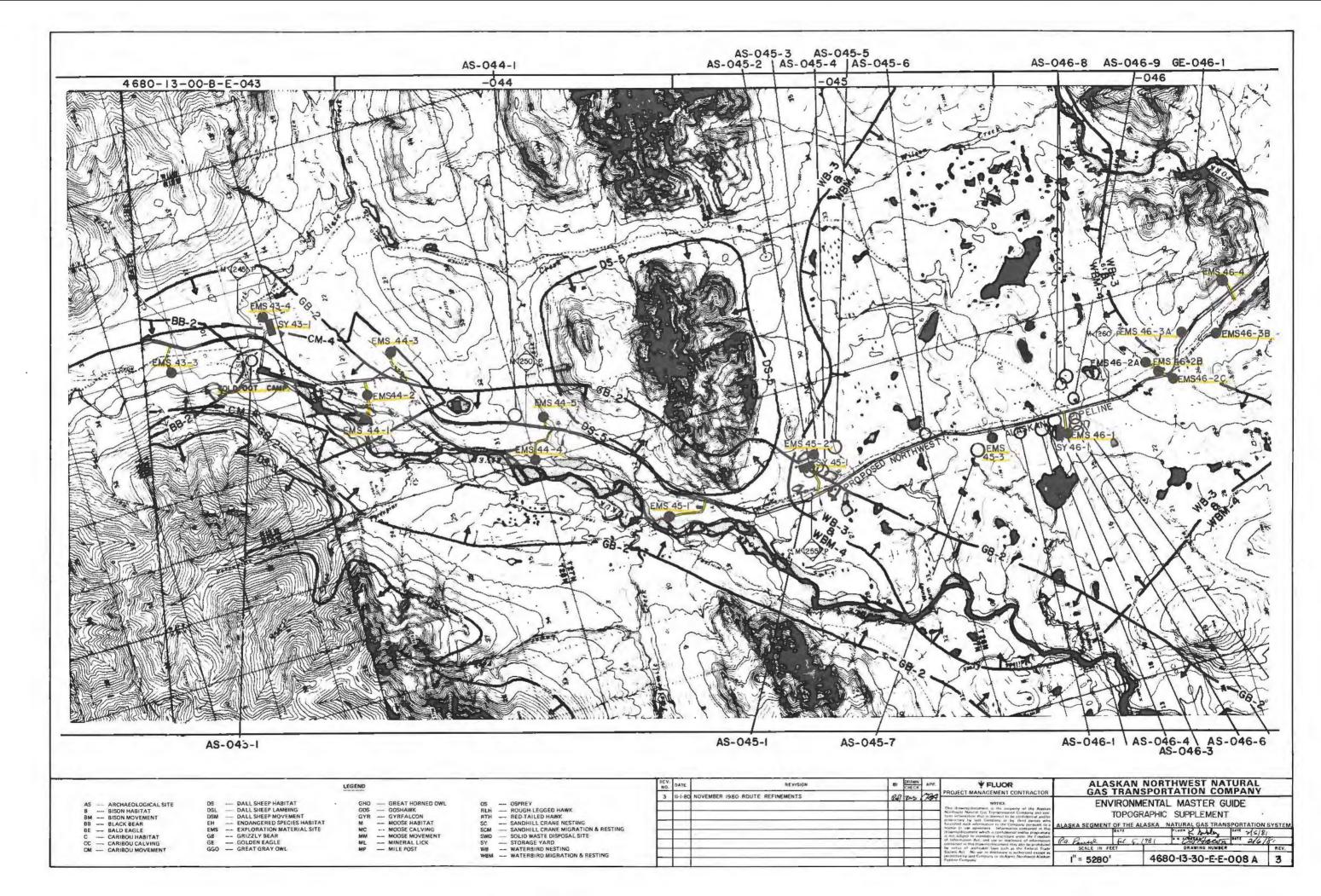


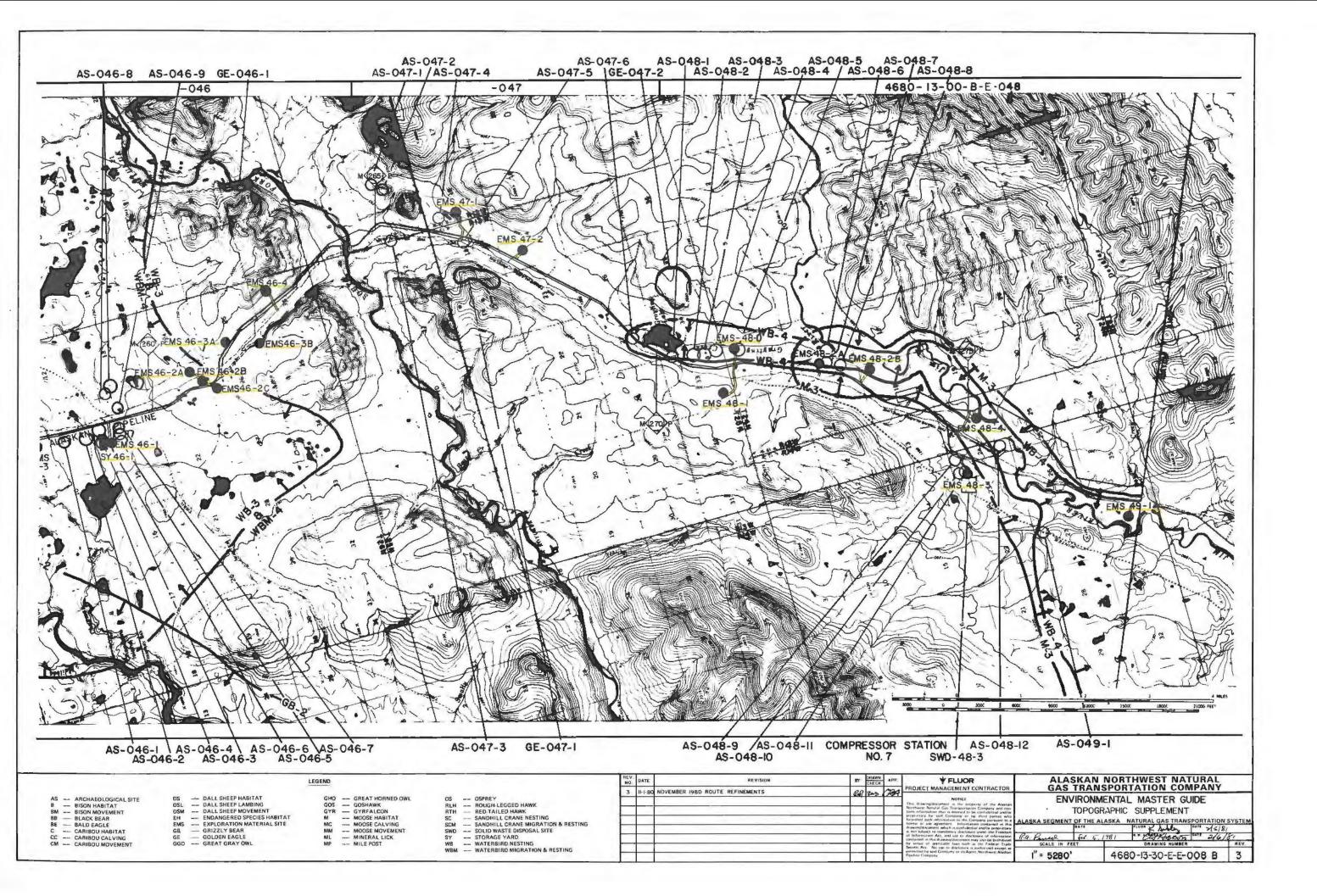


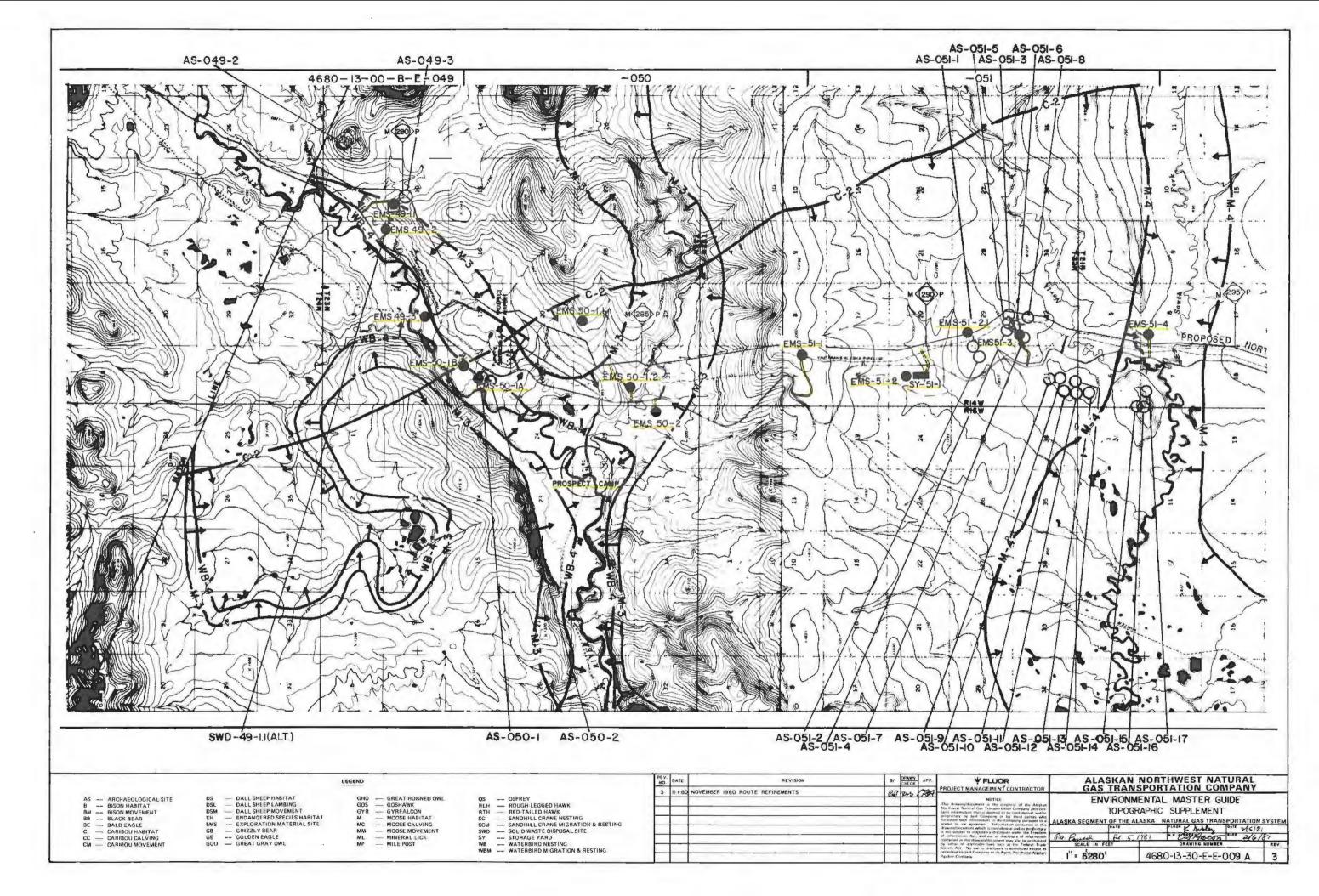


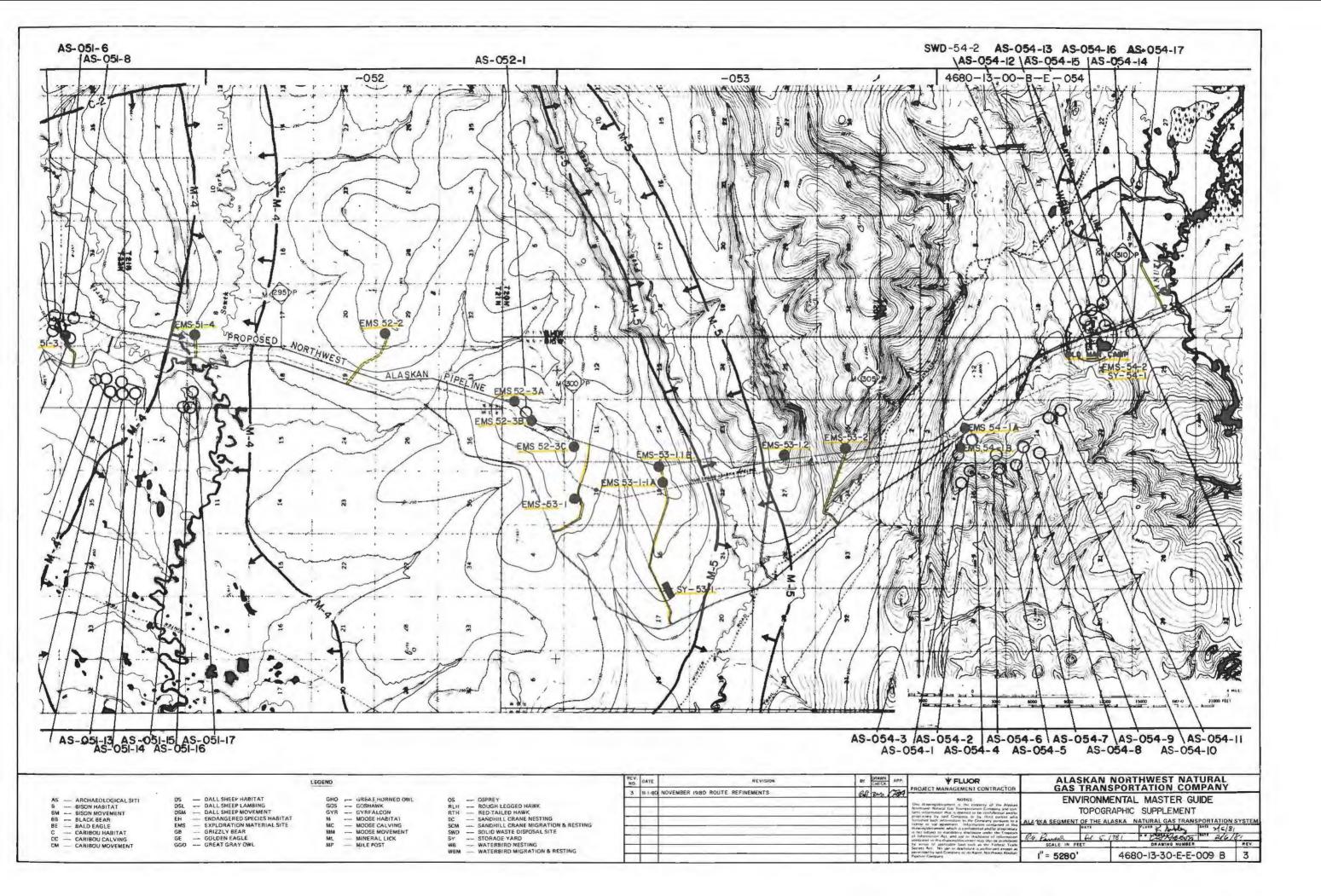


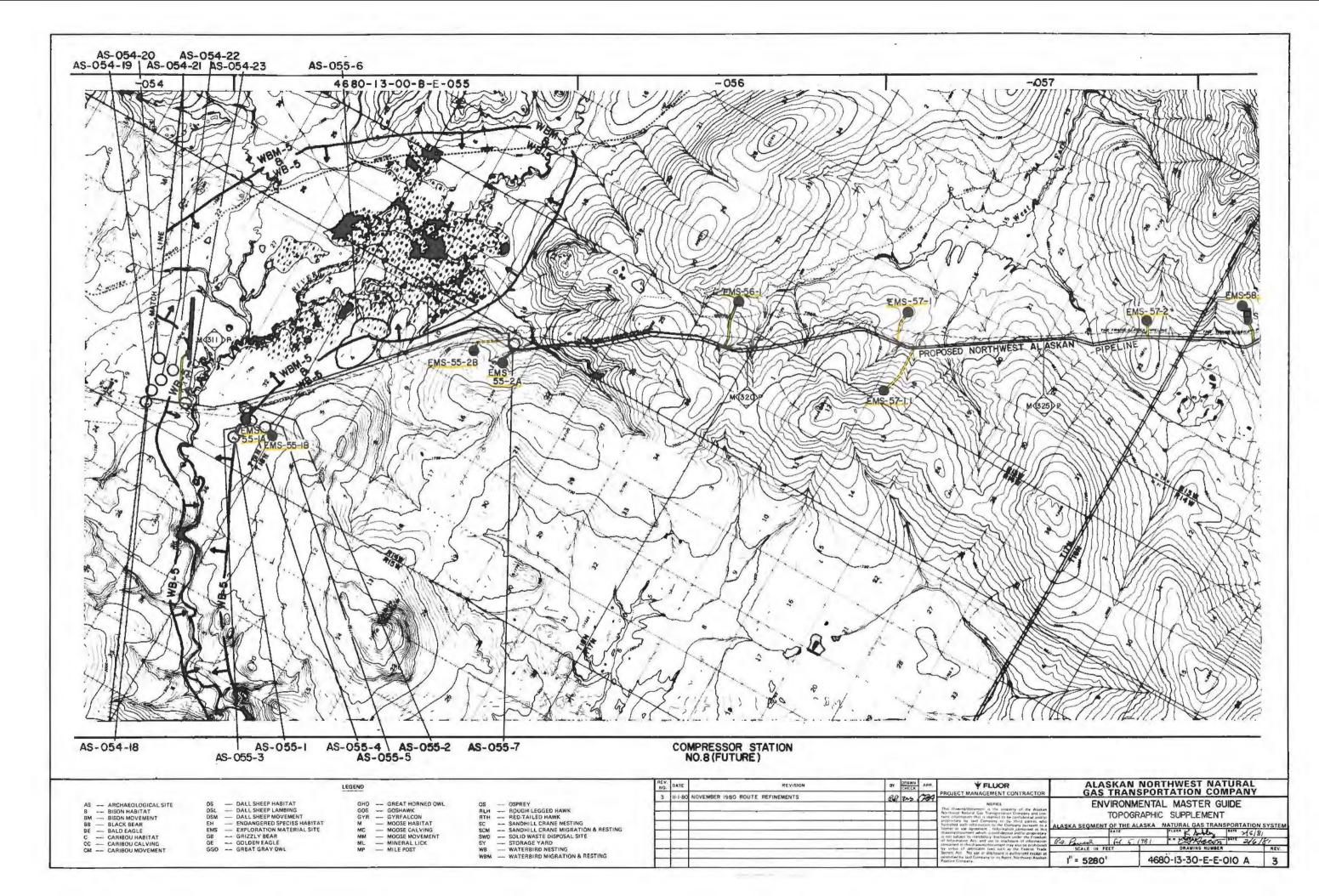


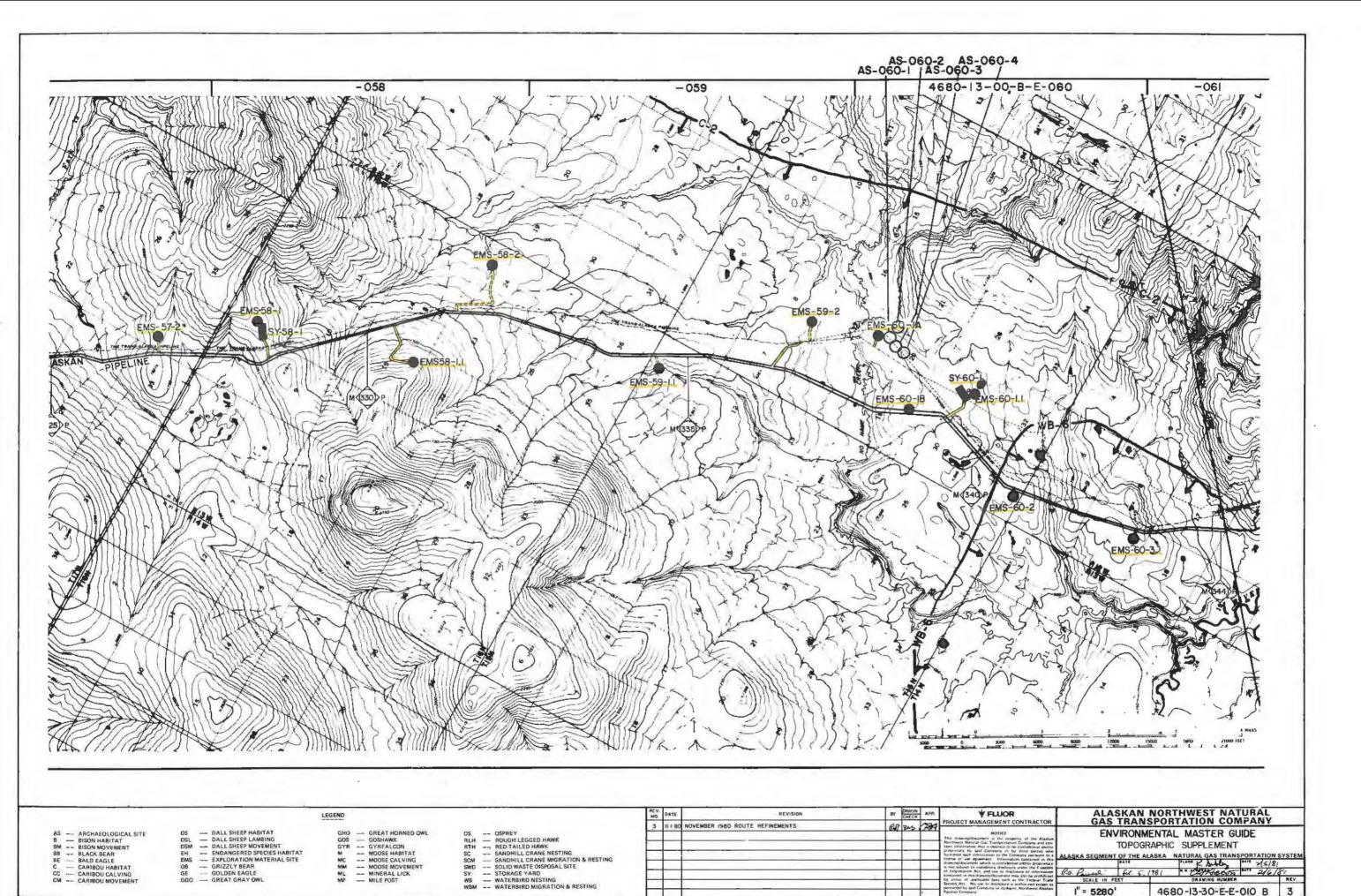


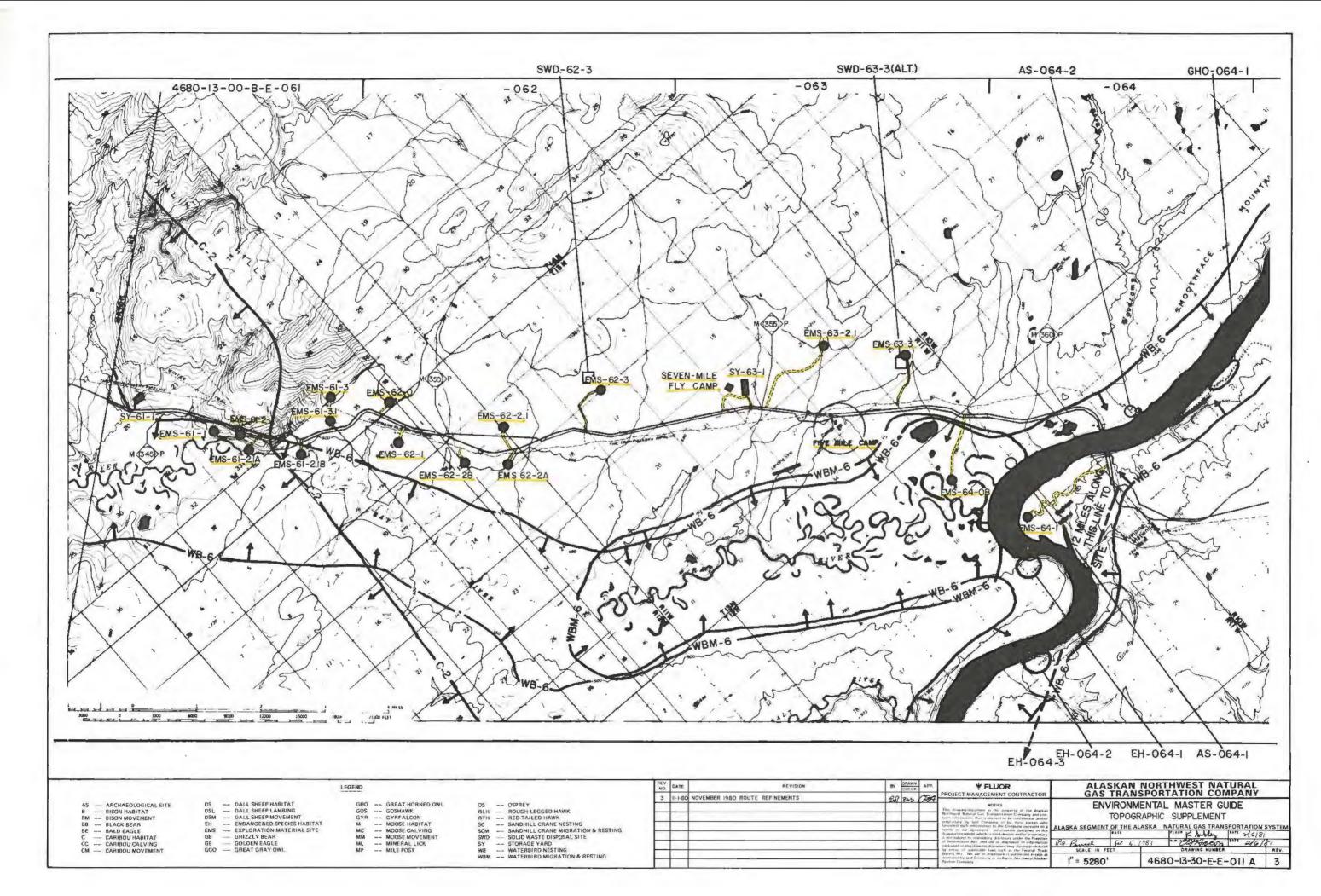


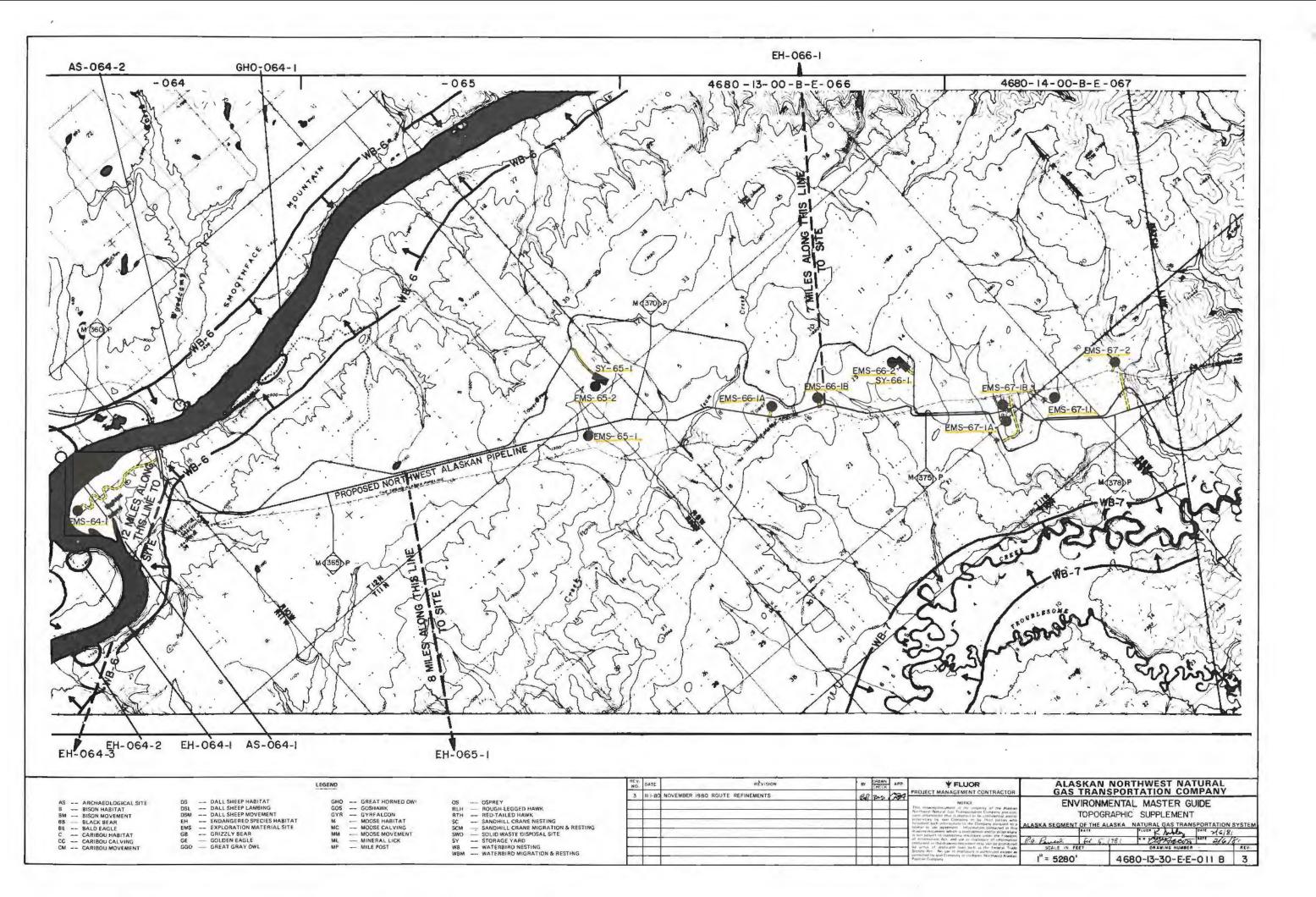


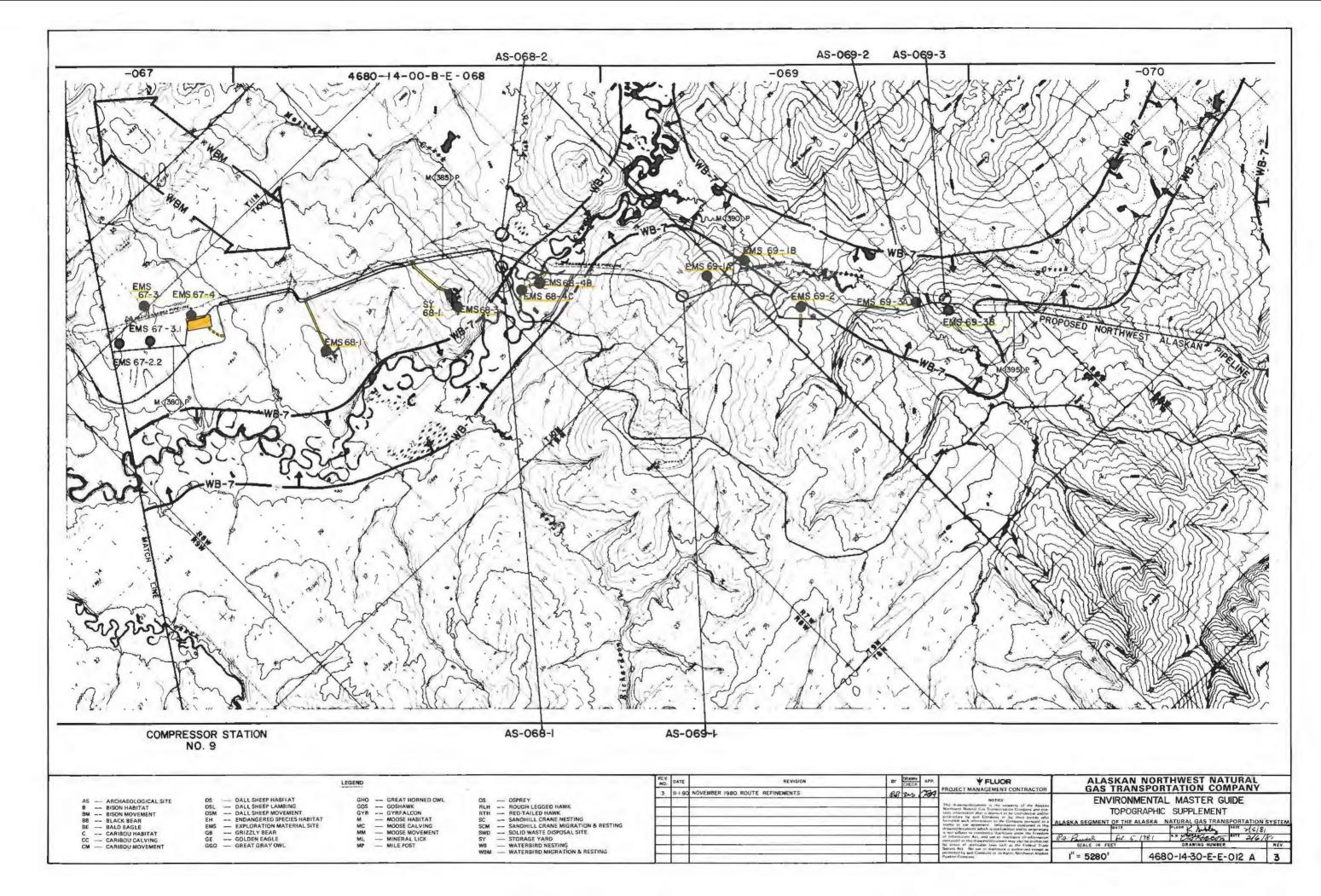


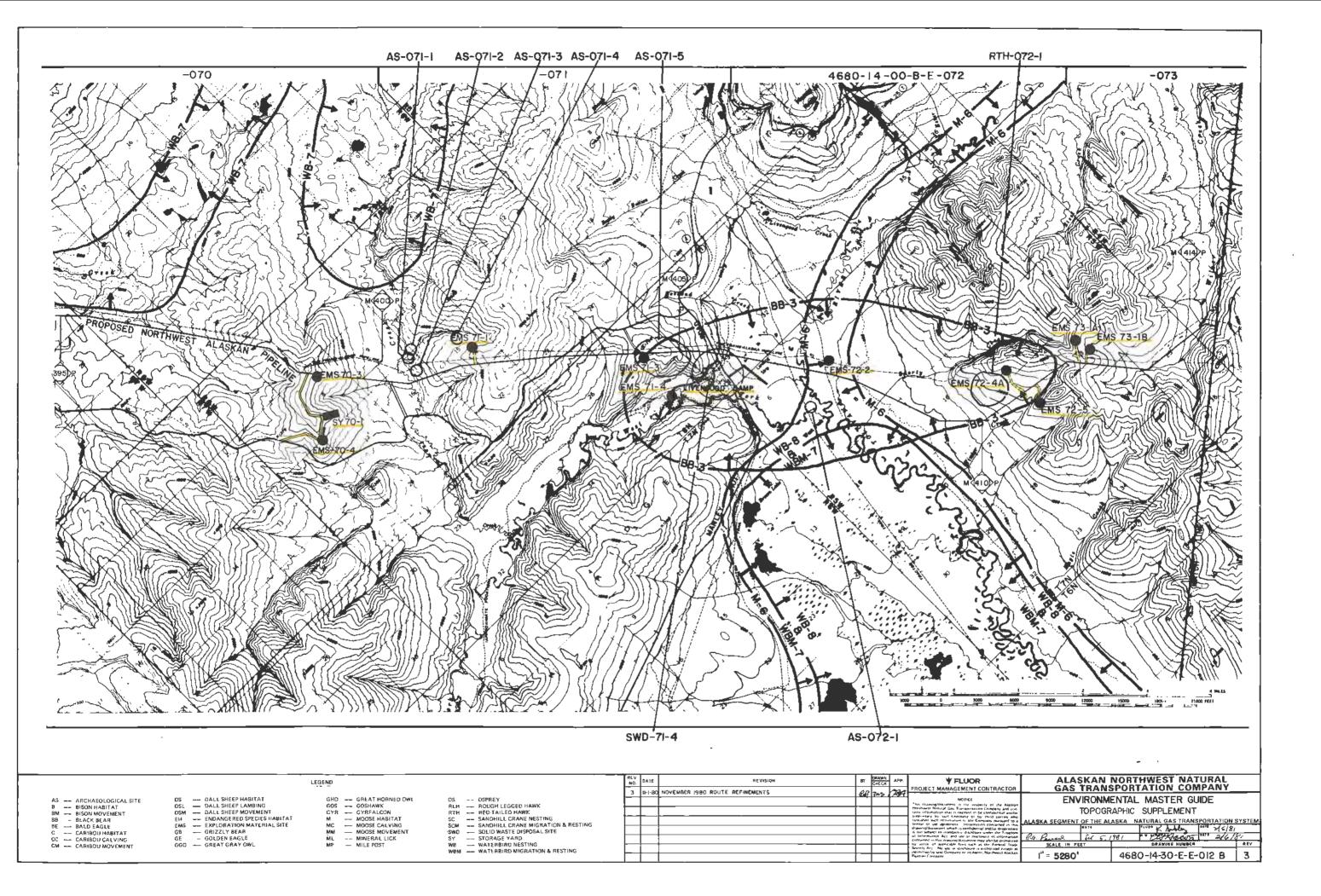


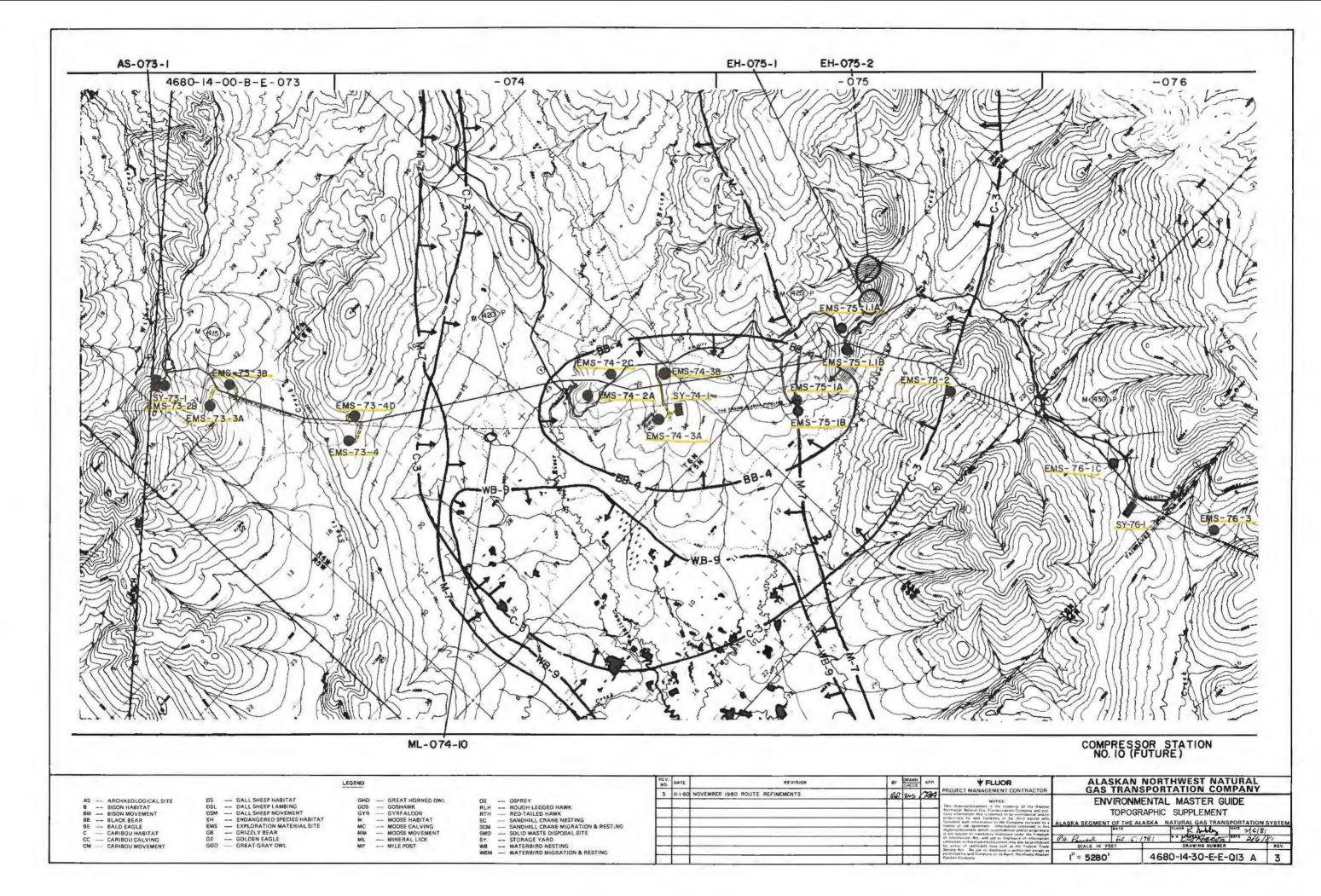


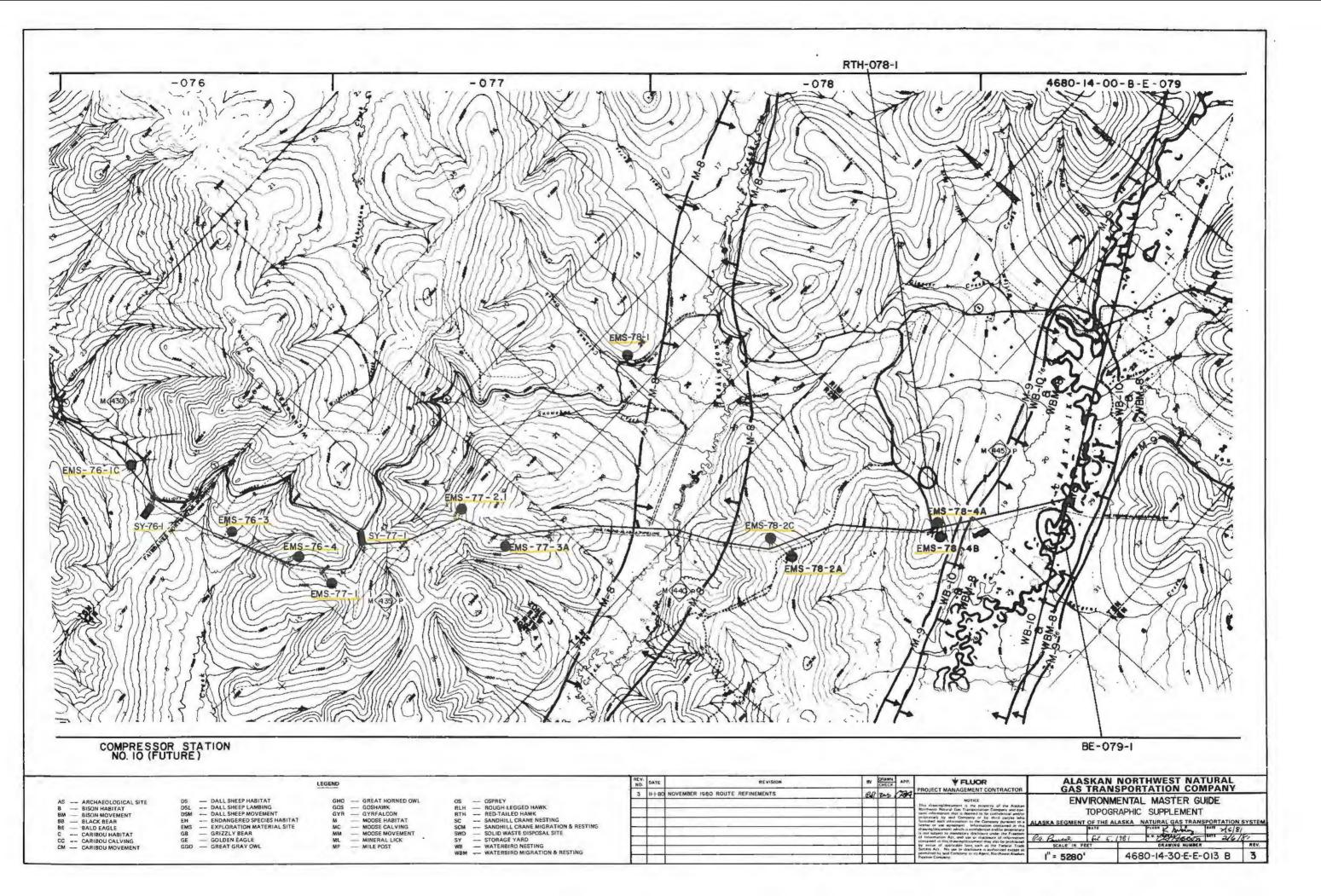


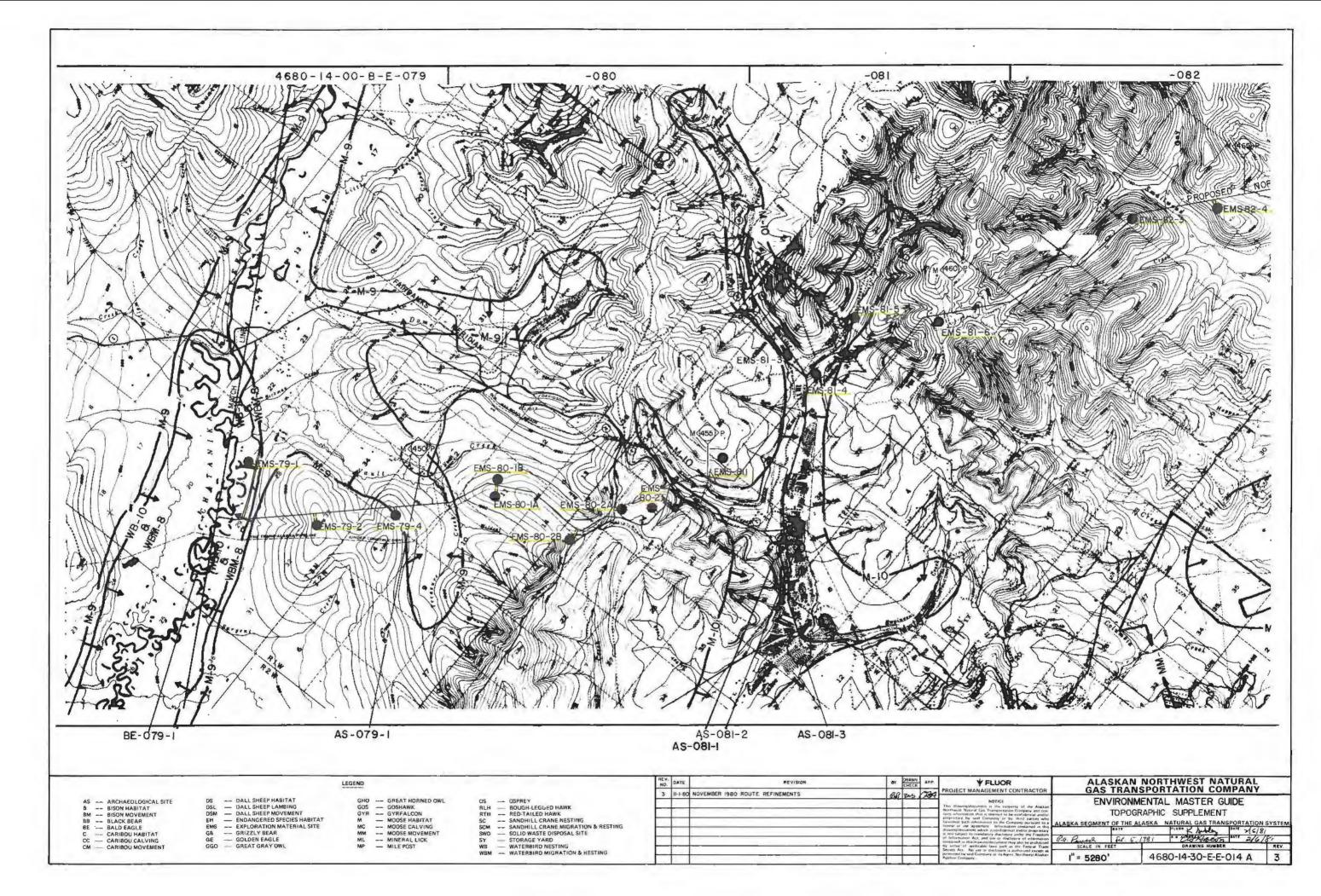


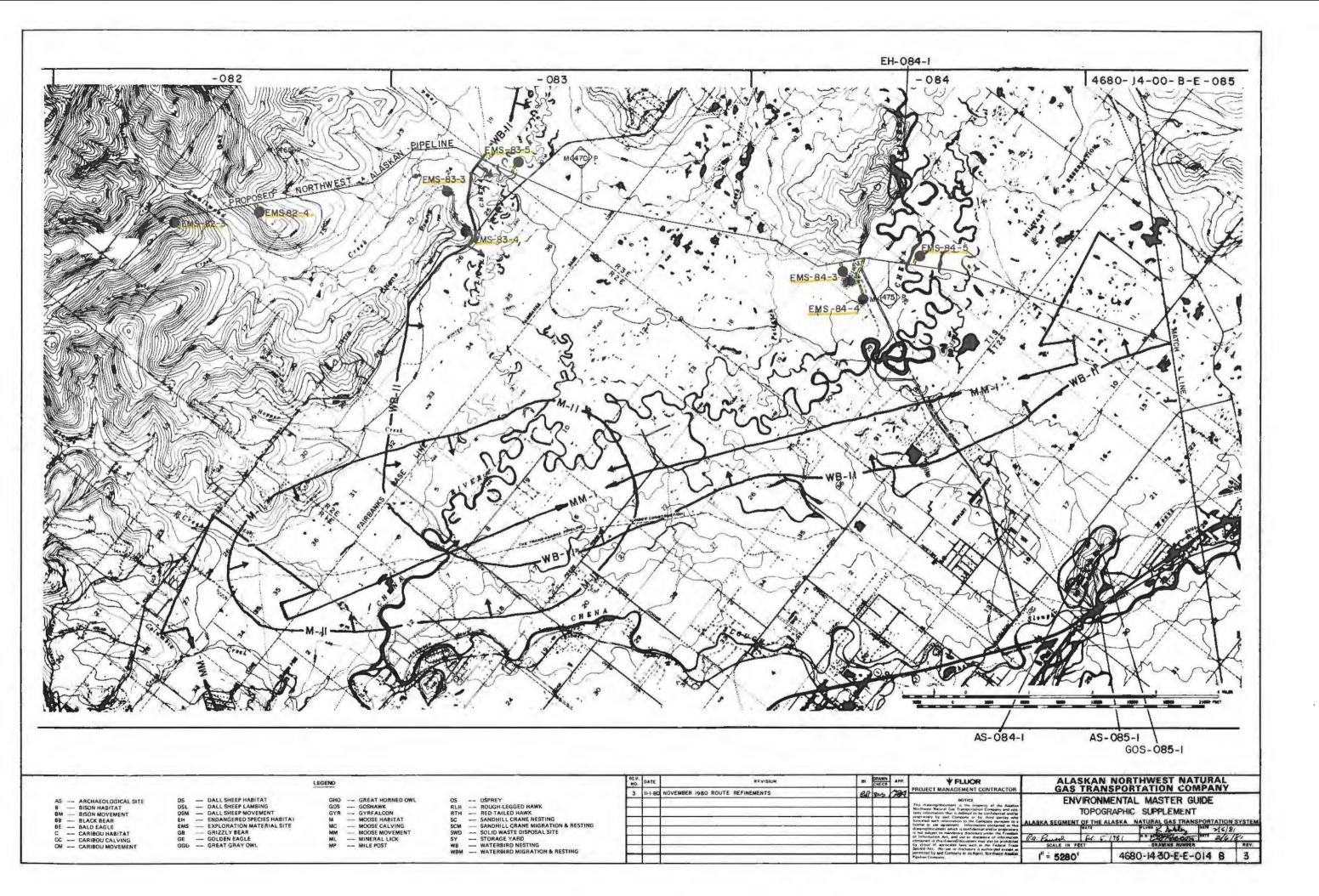


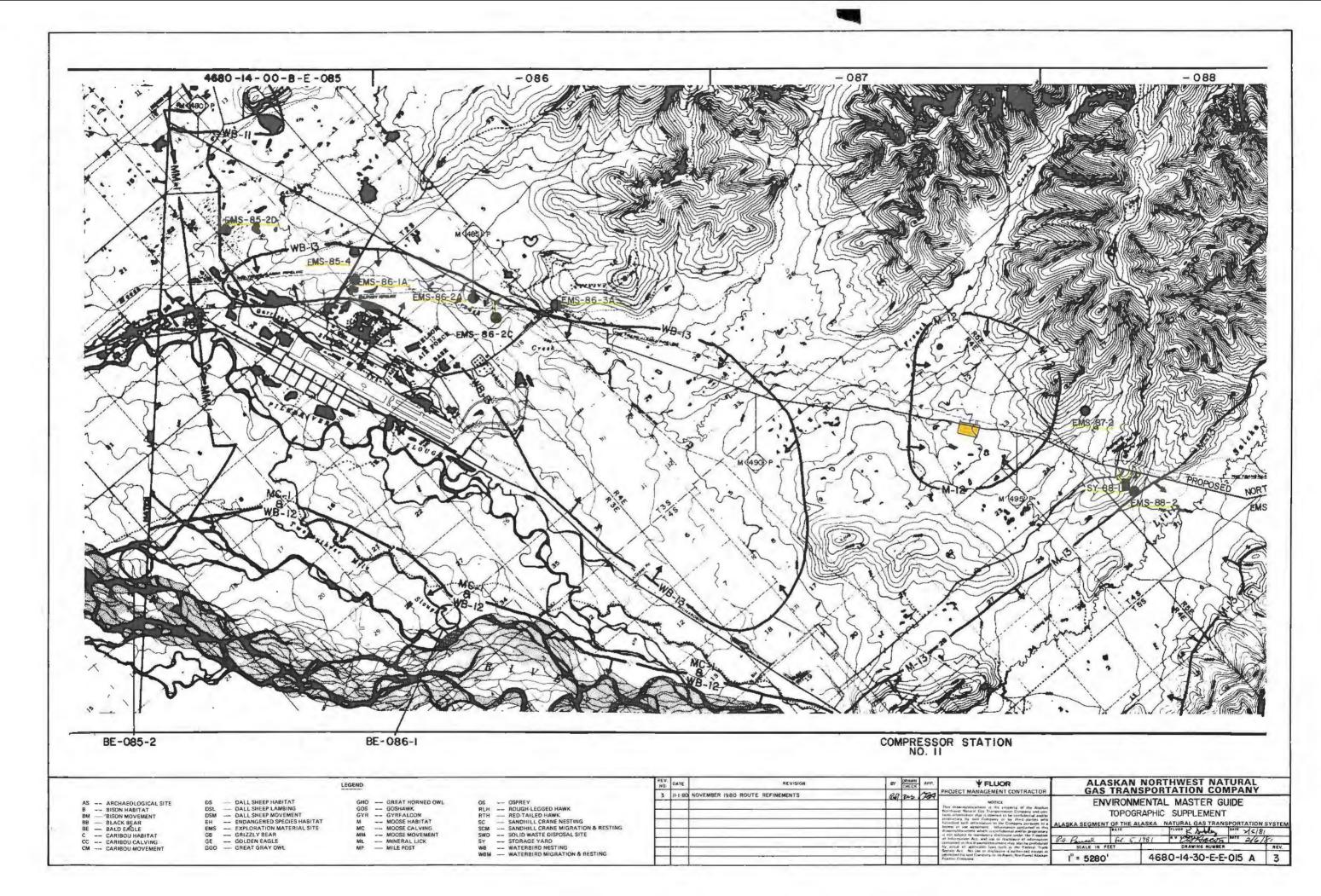


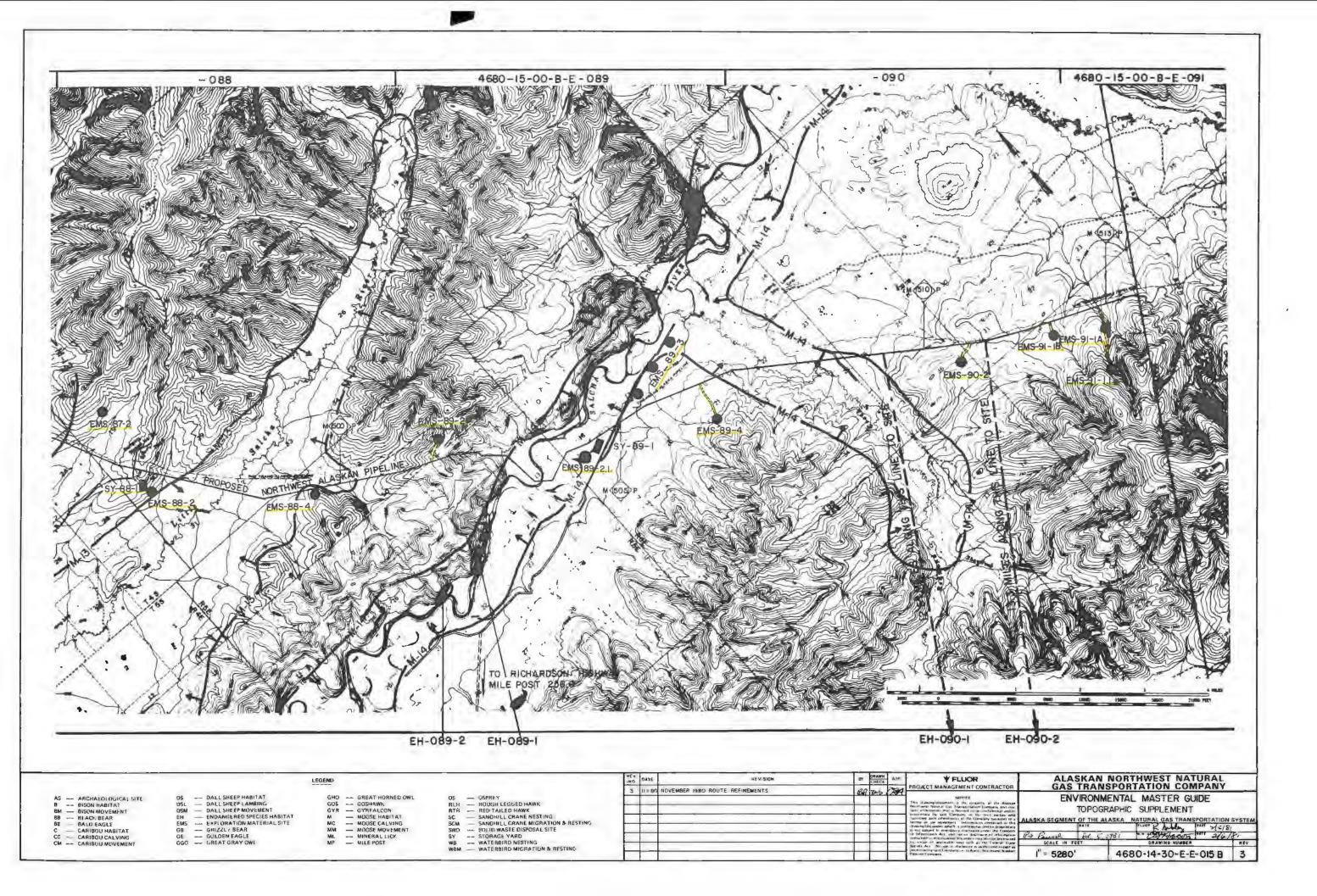


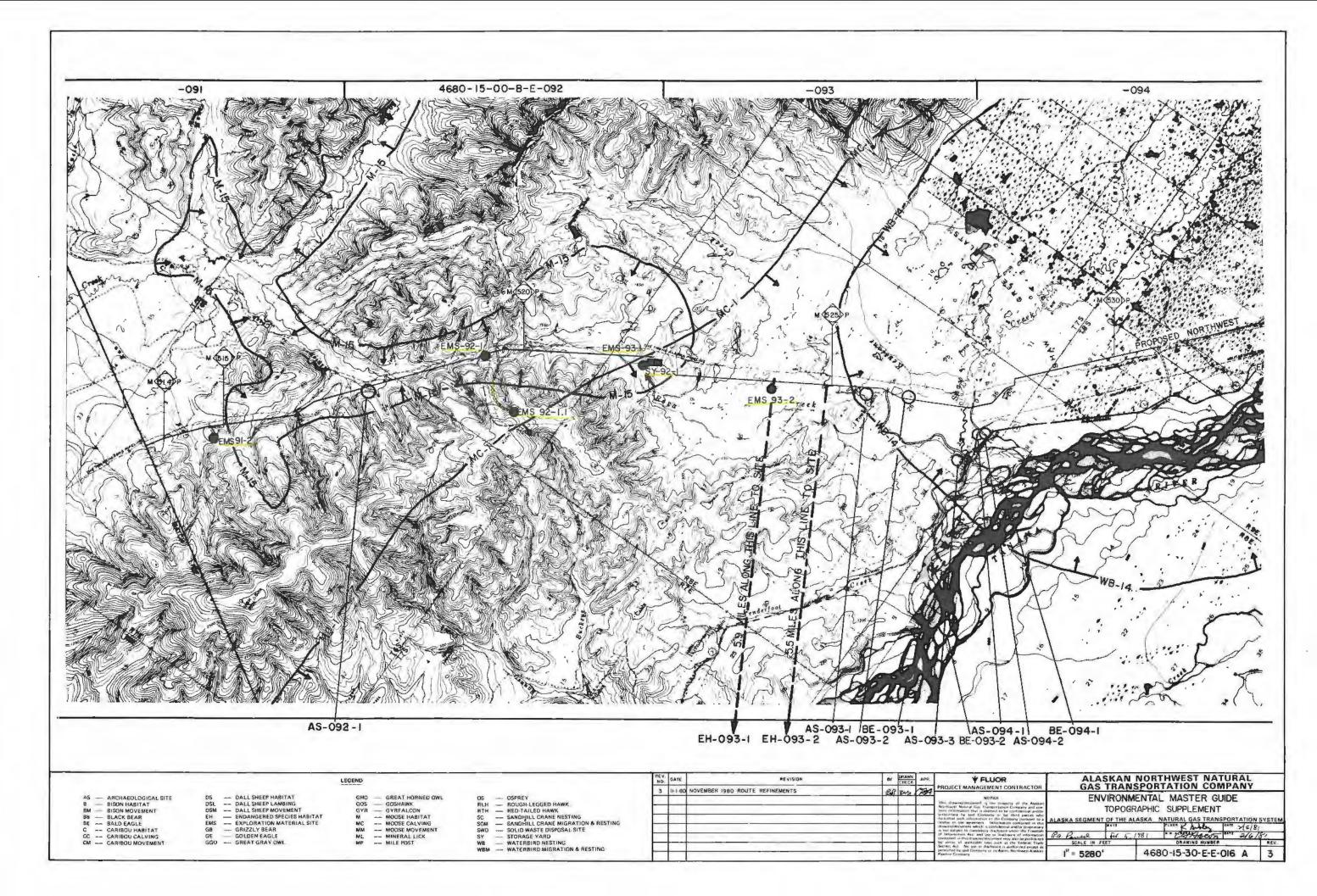


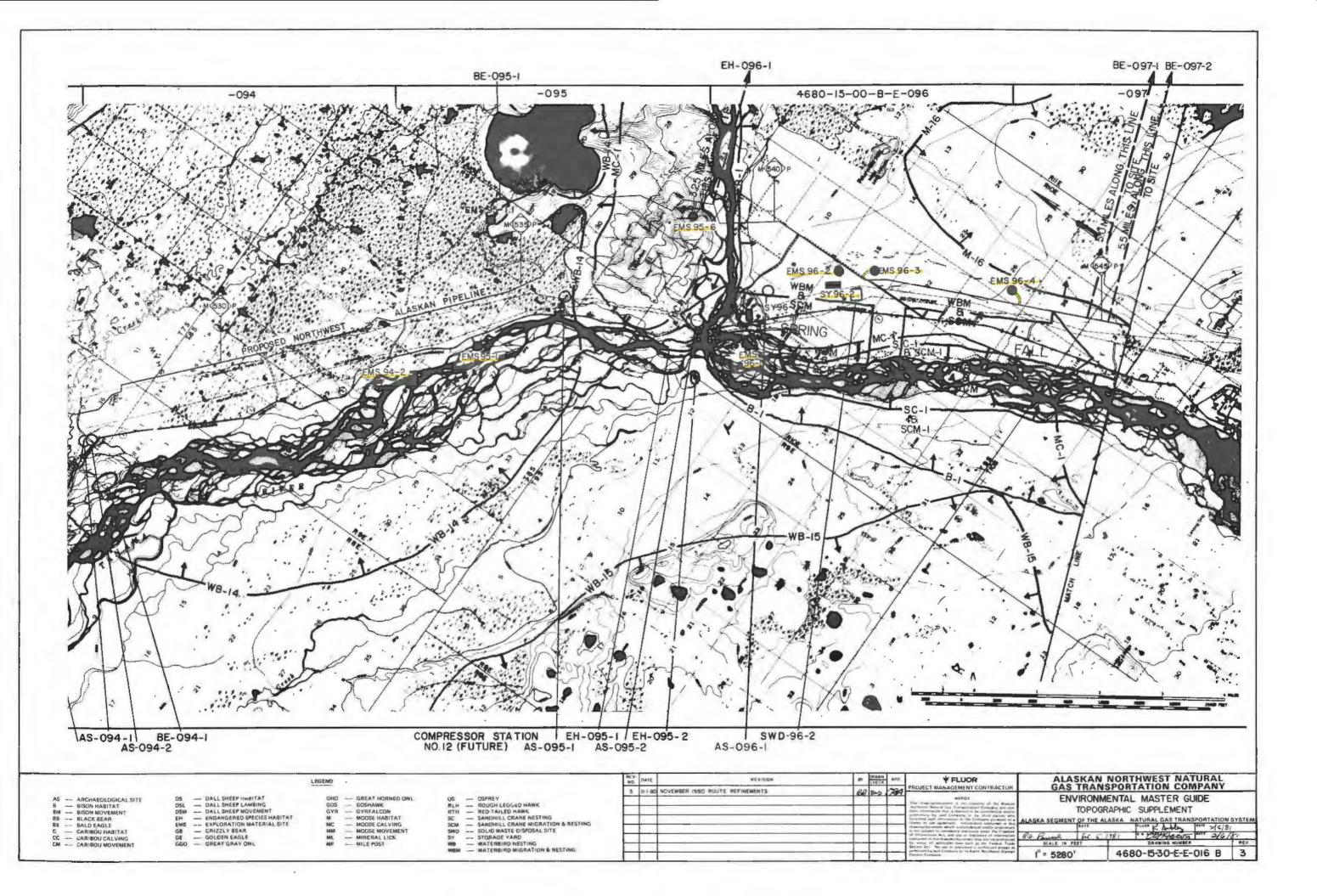


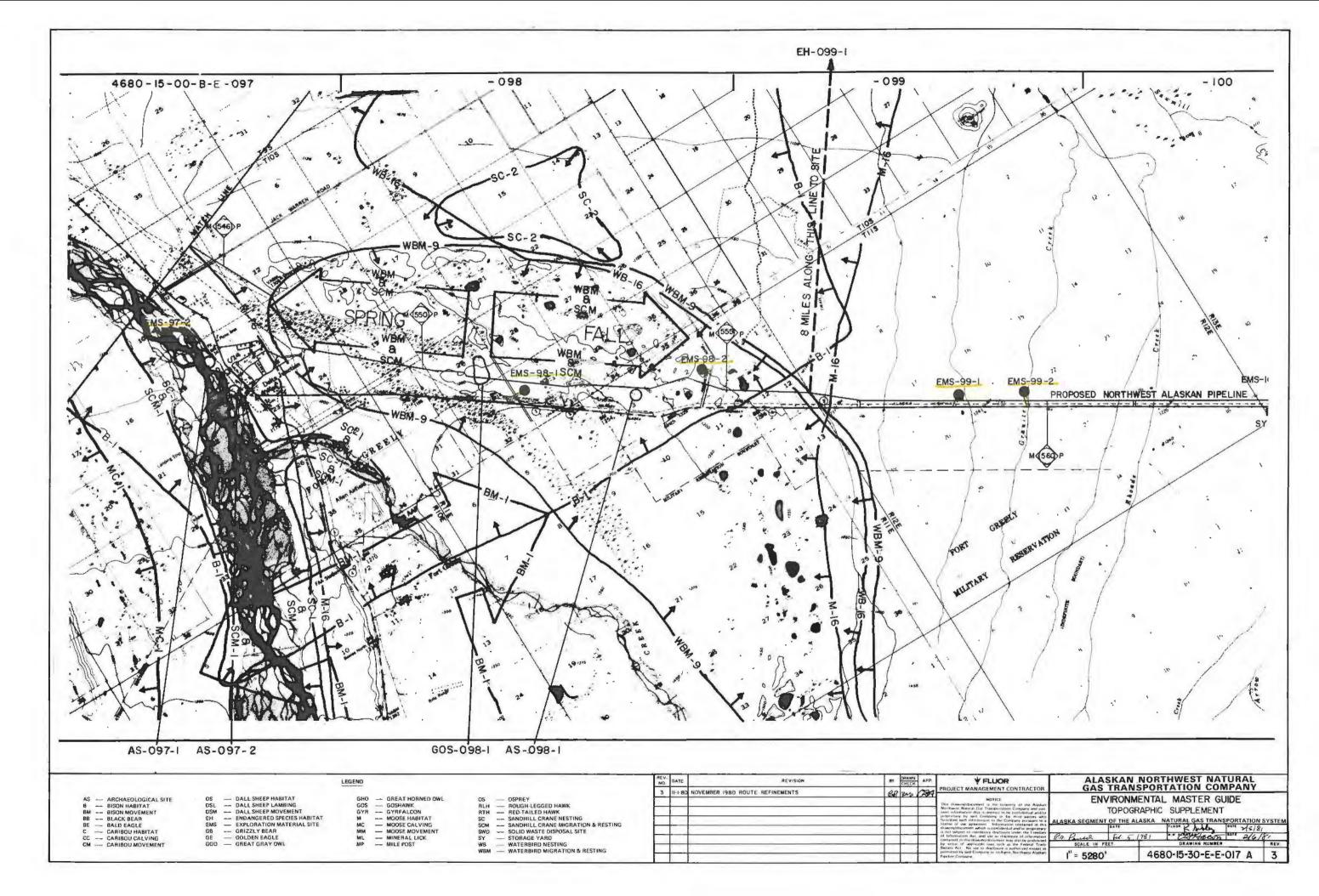


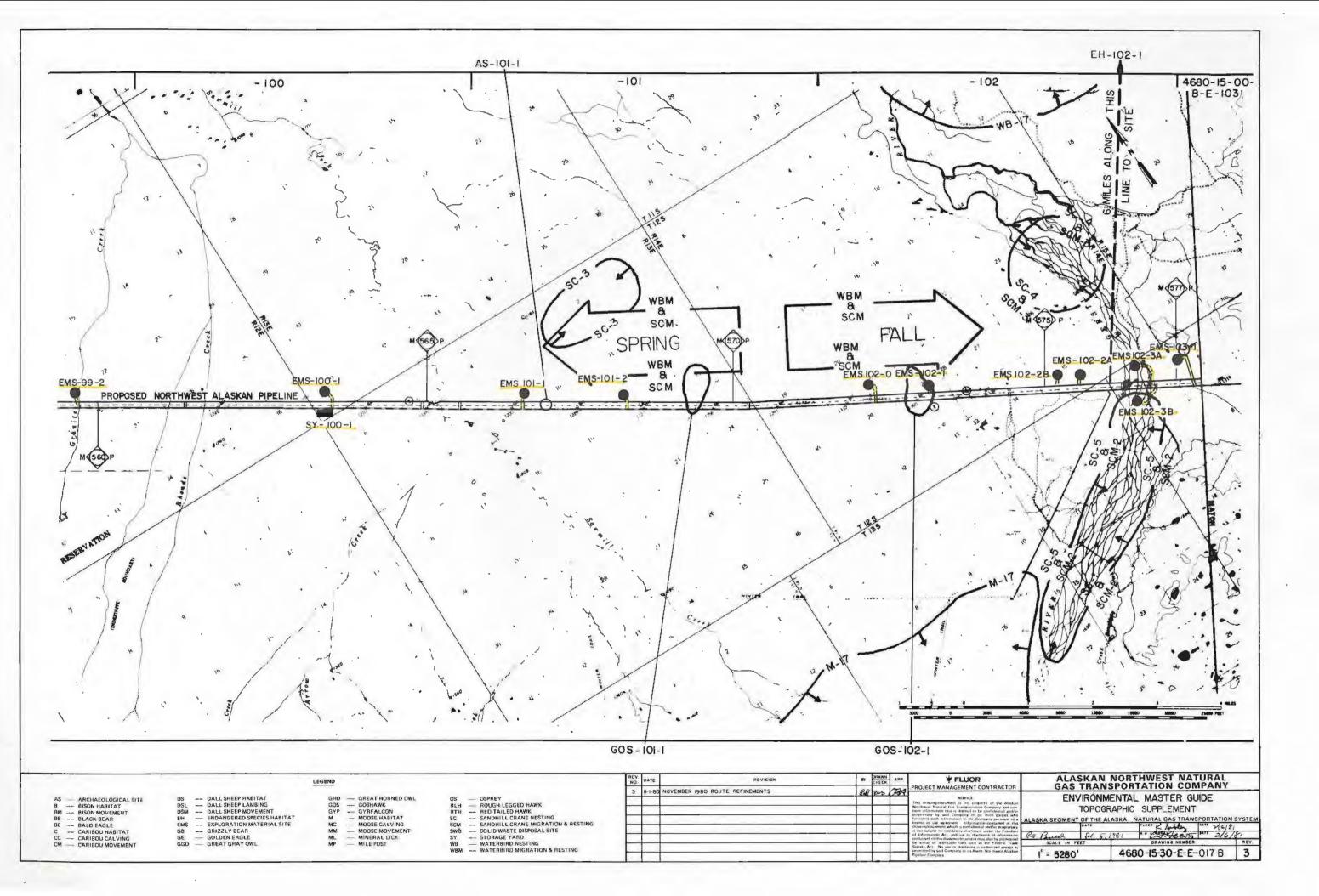


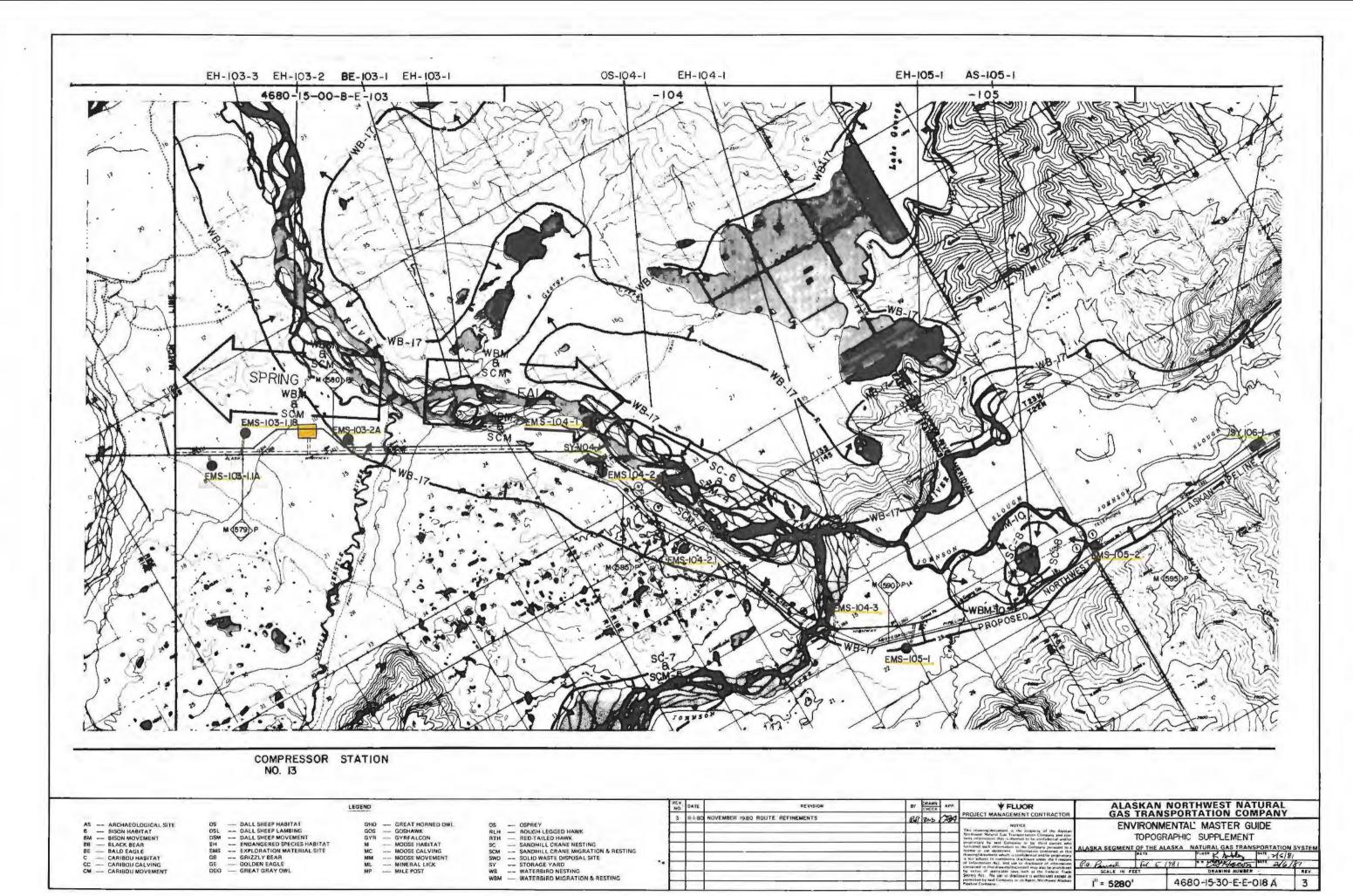


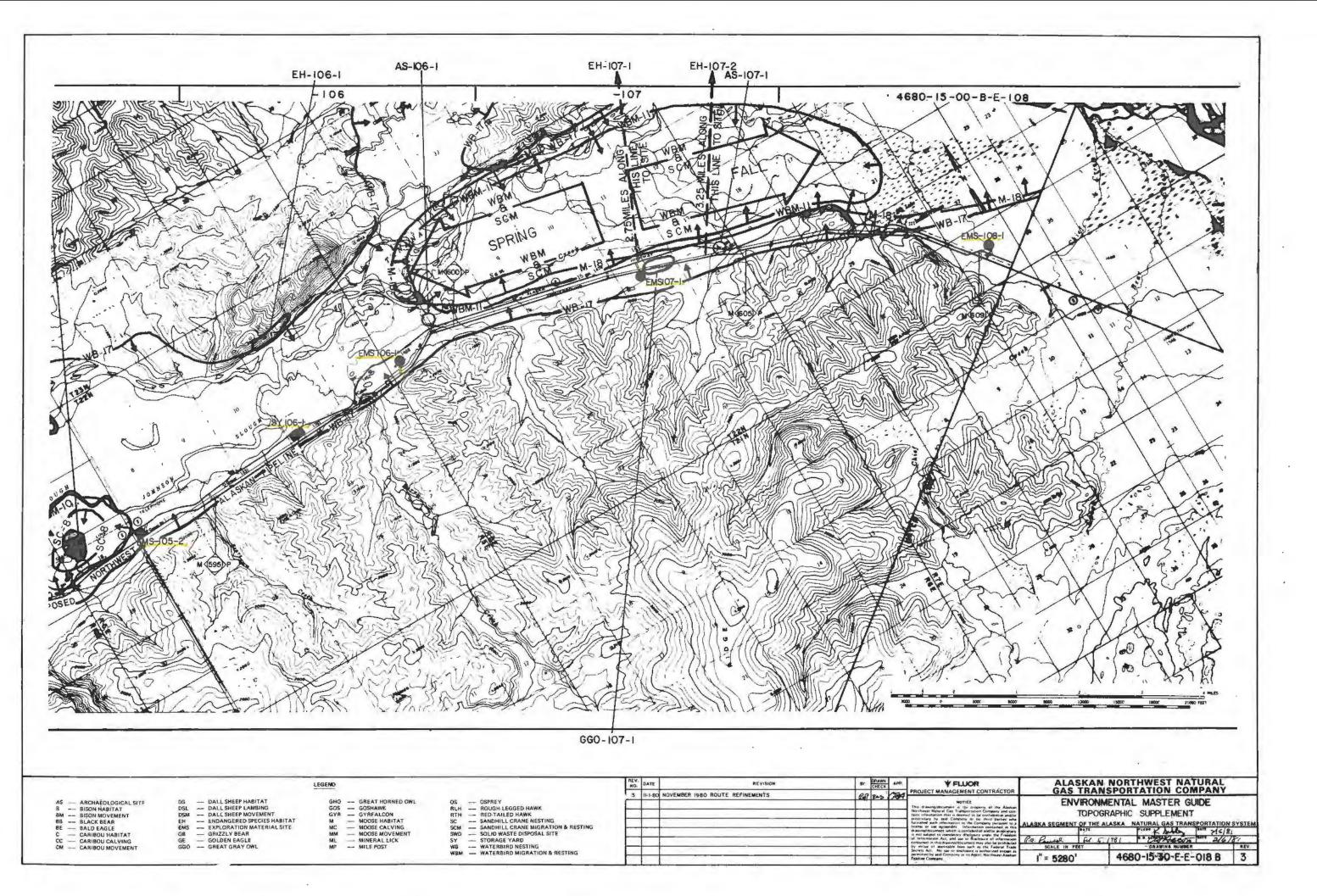


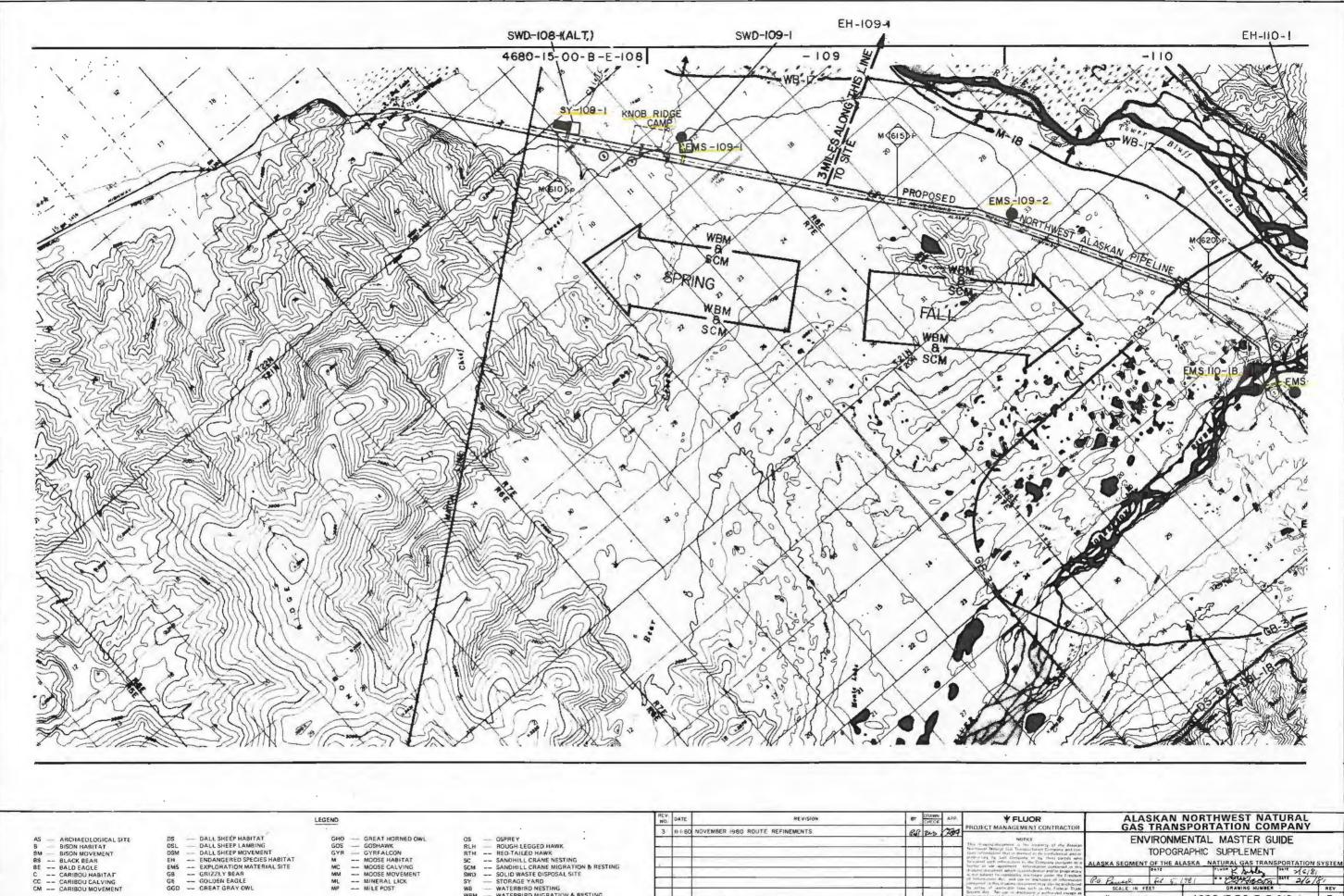












AS ARCHAEOLOGICAL SITE
B BISON HABITAT
9M BISON MOVEMENT
8B -- BALCK BEAR
8E -- BALD EAGLE
C -- CARIBOU HABITAT
CC -- CARIBOU MOVEMENT
CM -- CARIBOU MOVEMENT

DS — DALL SHEEP HABITAT

DSL — DALL SHEEP LAMBING

DSM — DALL SHEEP MOVEMENT

EH — ENDANGERED SPECIES HABITAT

EMS — EXPLORATION MATERIAL SITE

GB — GRIZZLY BEAR

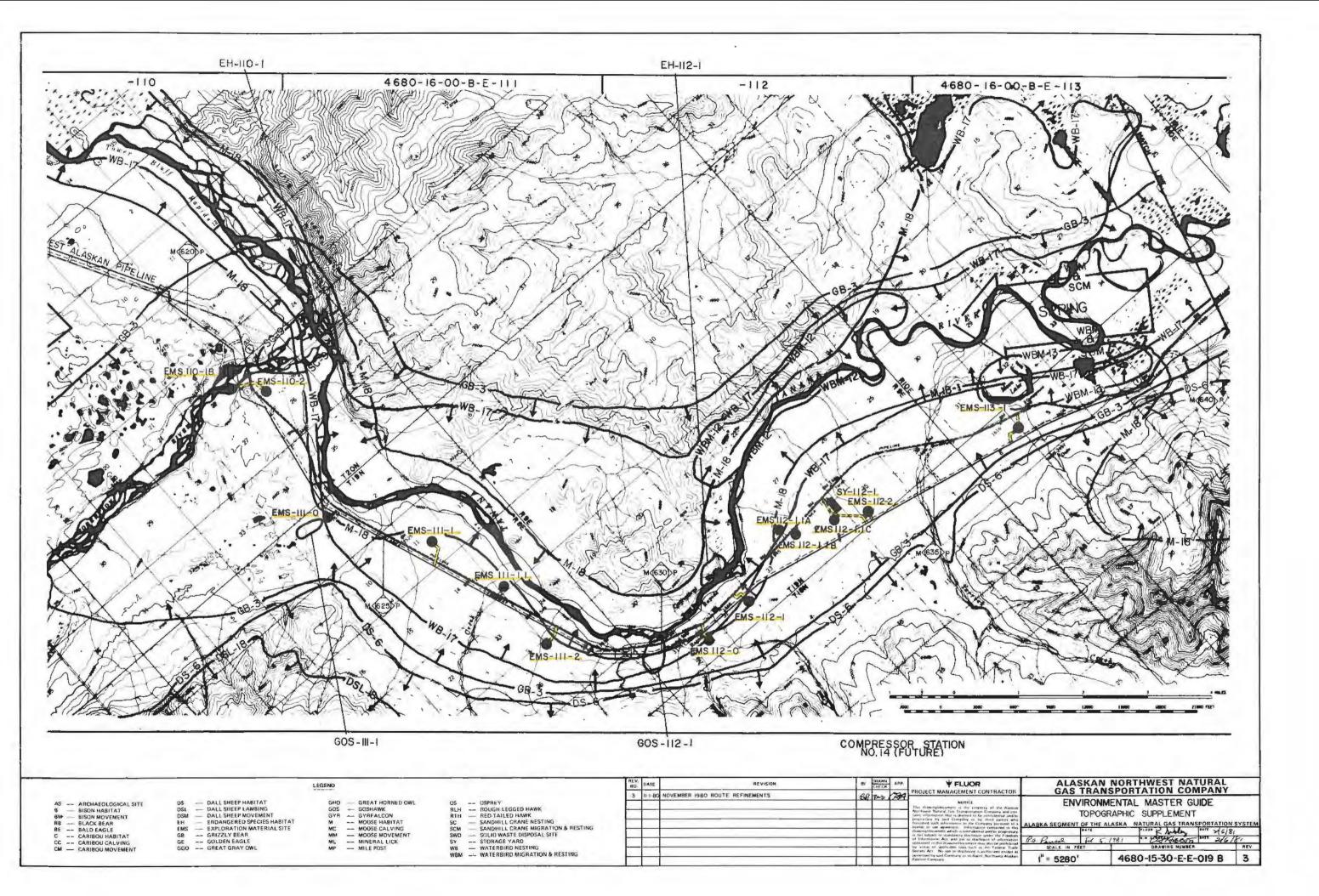
GE — GOLDEN EAGLE

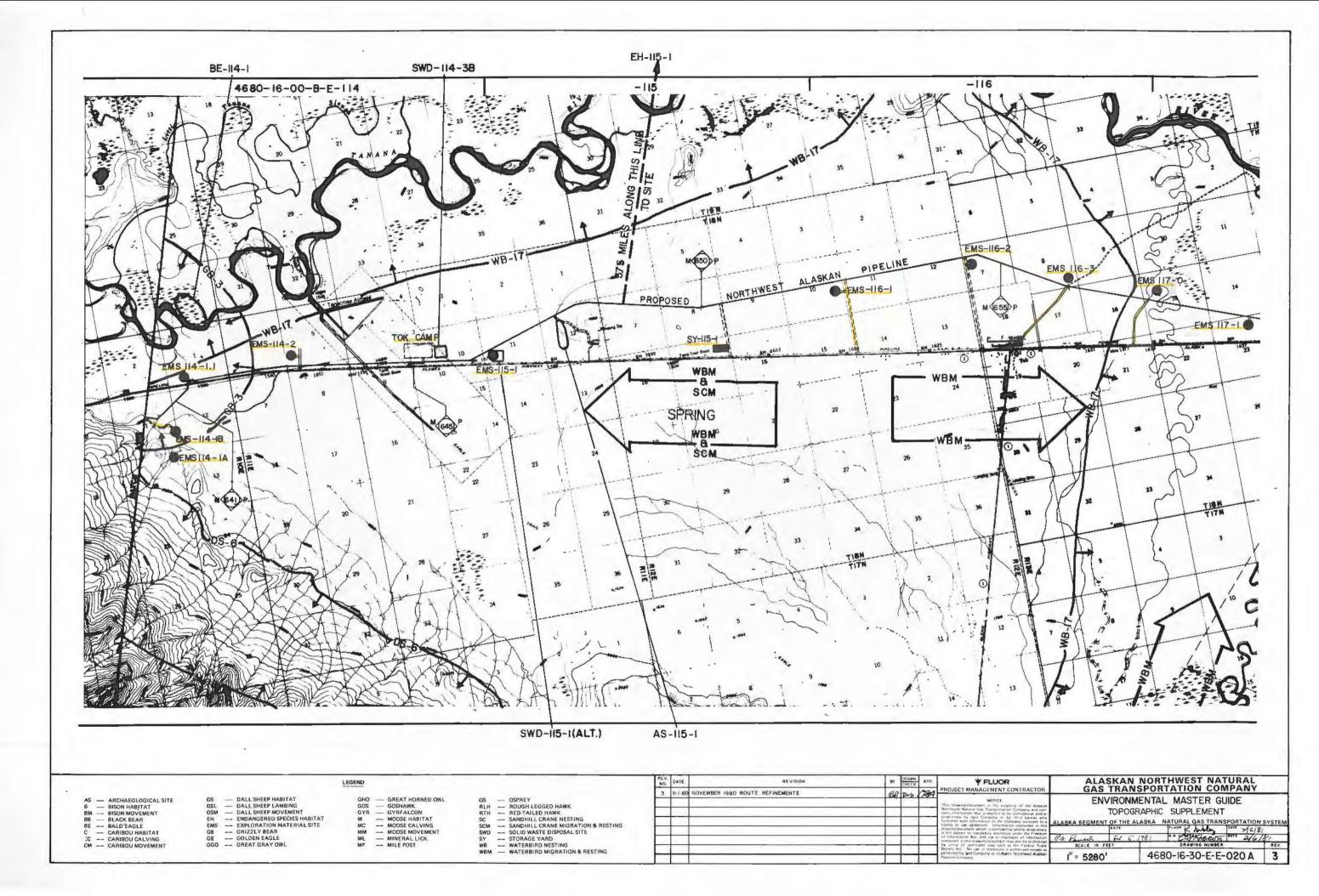
GGO — GREAT GRAY OWL

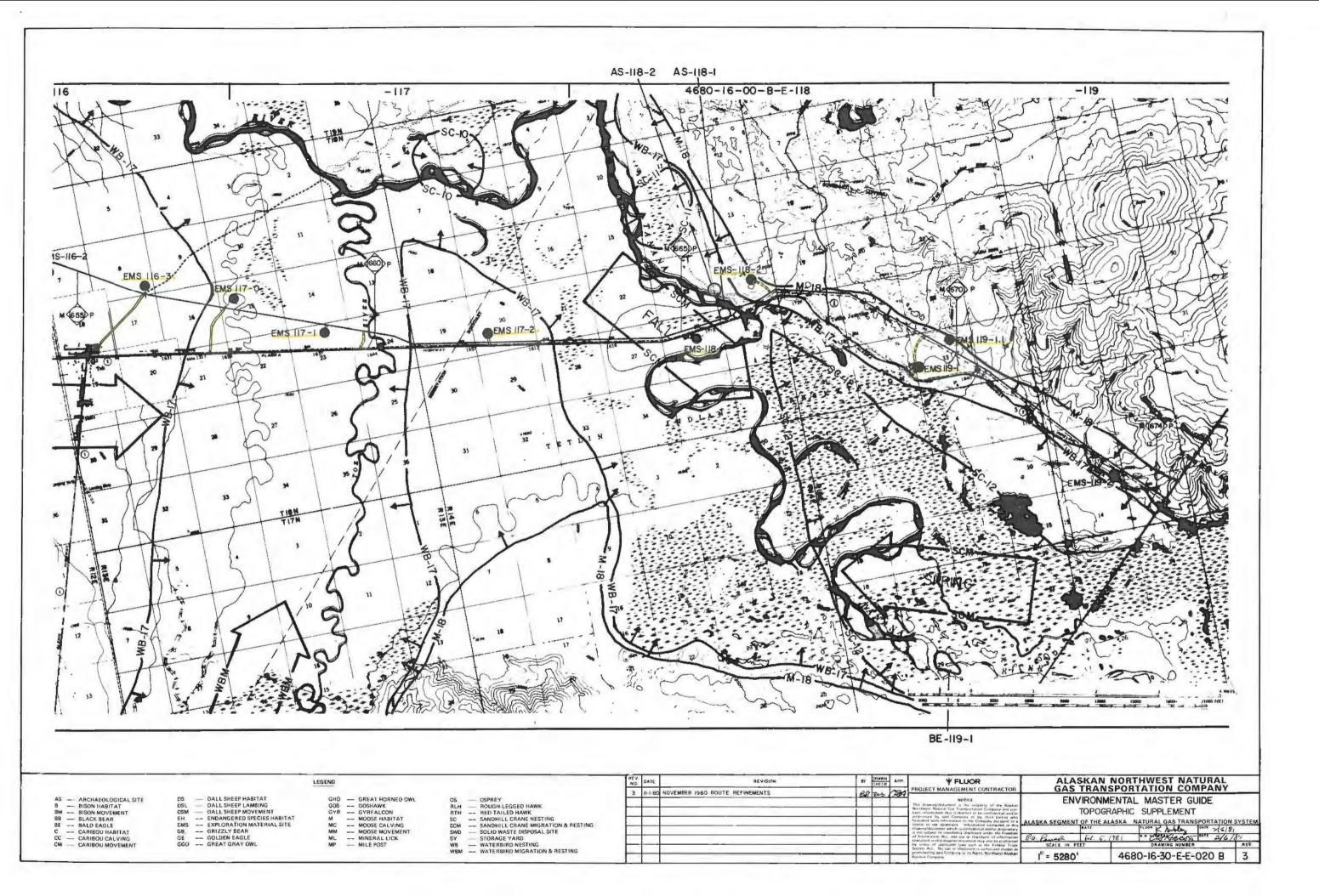
OS - OSPREY
RLH - ROUGH-LEGGED HAWK
RTH - RED-TAILED HAWK
SC - SANDHILL CRANE NESTING
SCM - SANDHILL CRANE MIGRATION & RESTING
SWD - SOLID WASTE DISPOSAL SITE
SY - STORAGE YARD
WB - WATERBIRD NESTING
WBM - WATERBIRD MIGRATION & RESTING

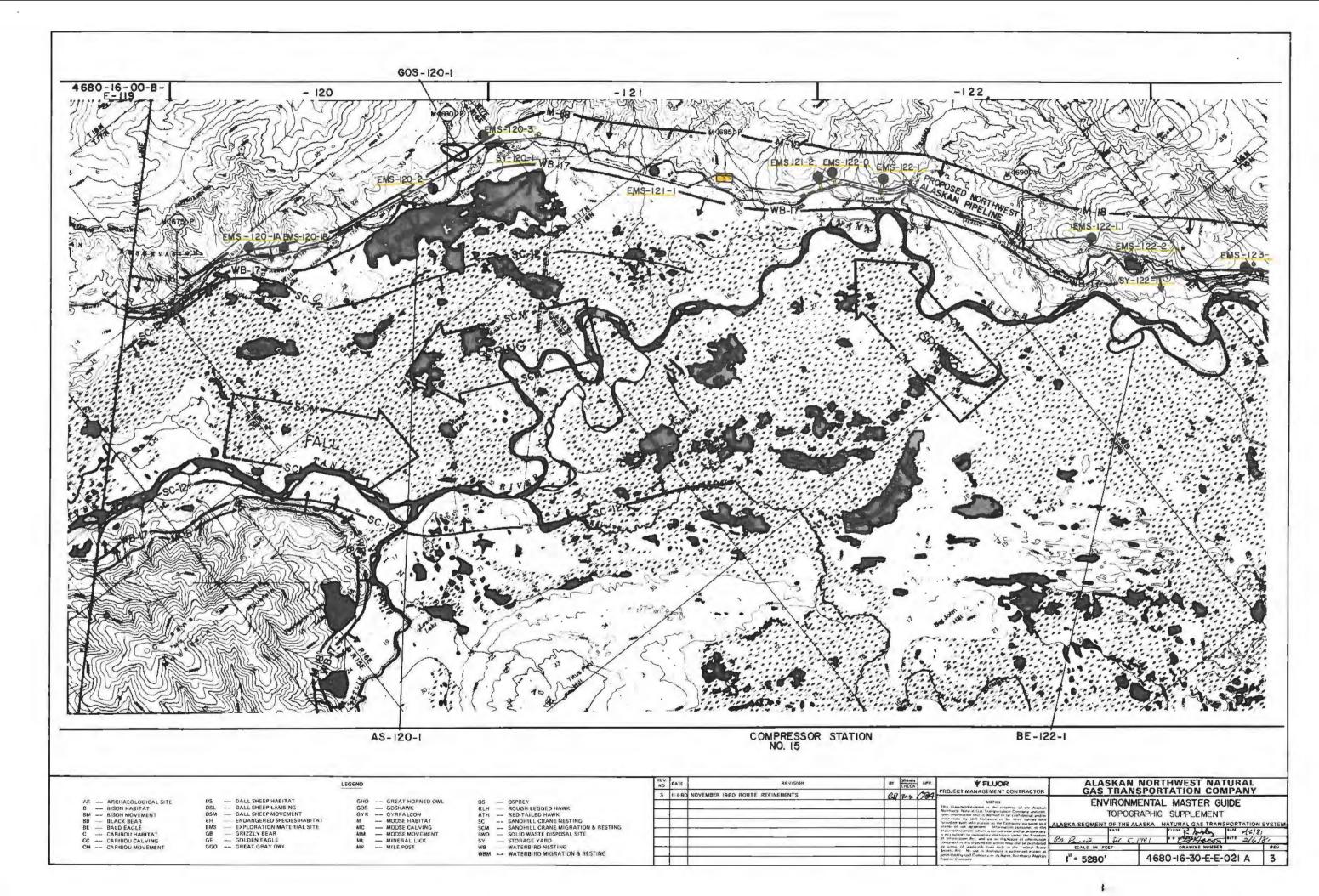
TOPOGRAPHIC SUPPLEMENT

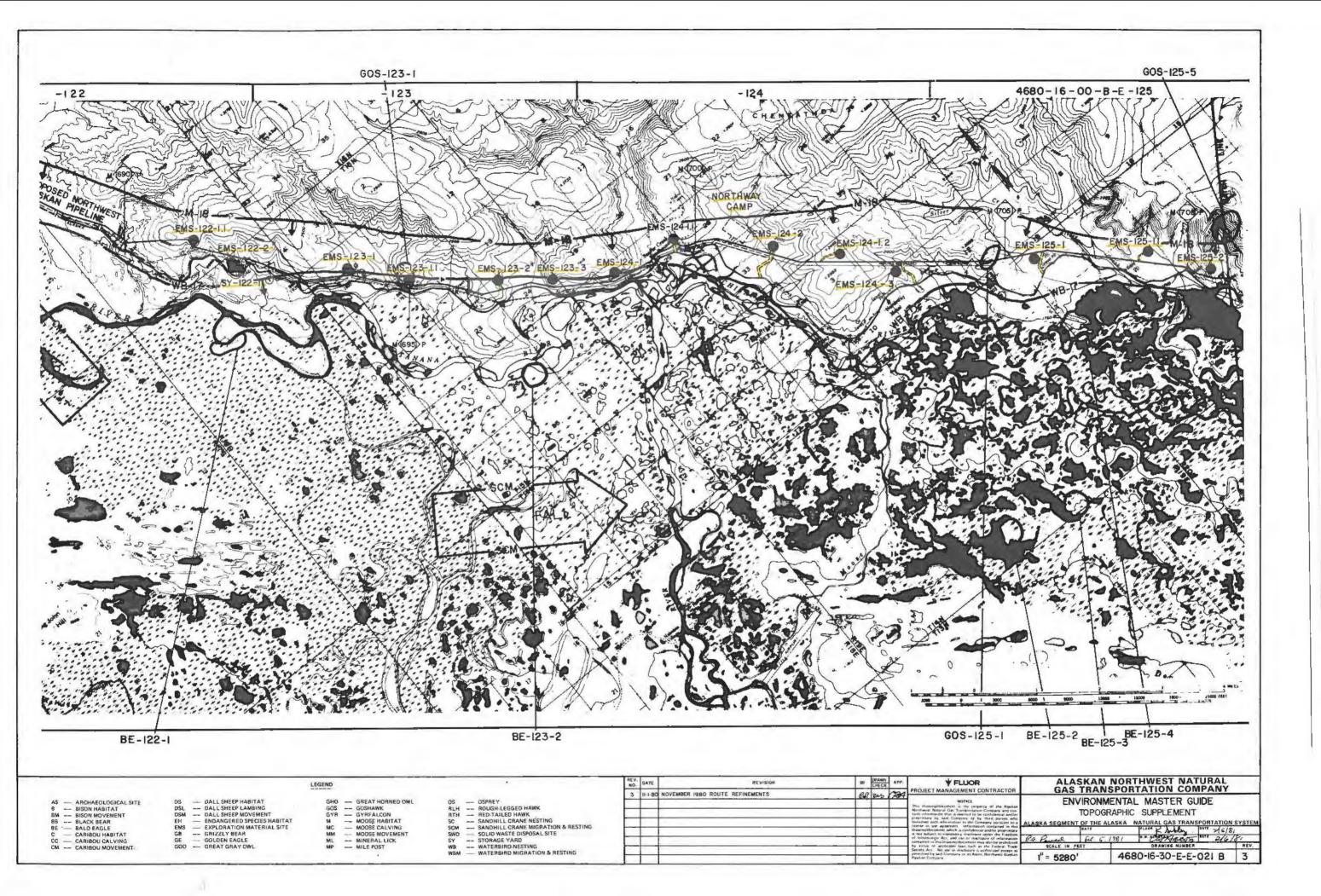
P.G. Pared. Fet 7 1981 TRENS THE STATE STA 4680-15-30-E-E-019 A 3 1" = 5280"

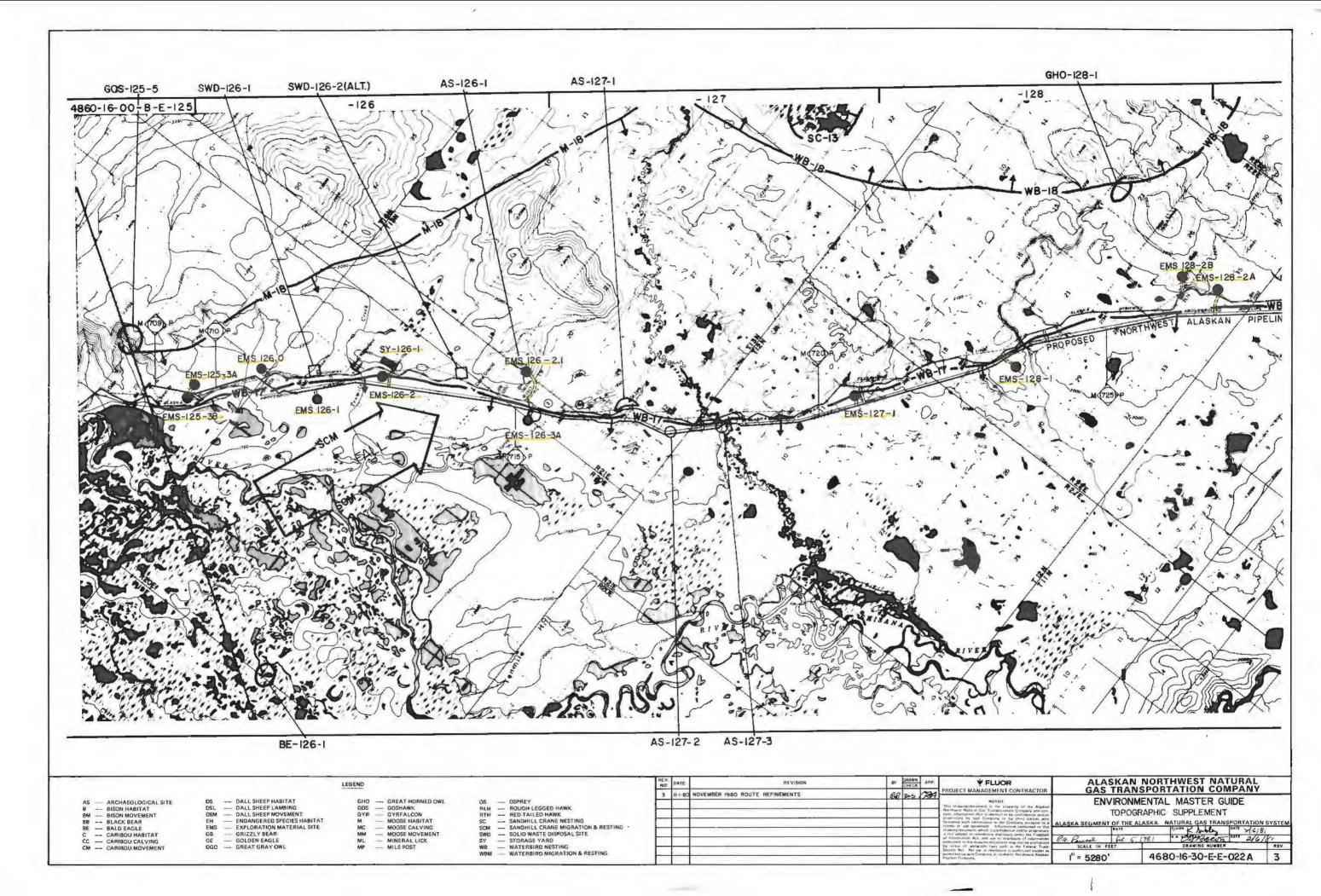


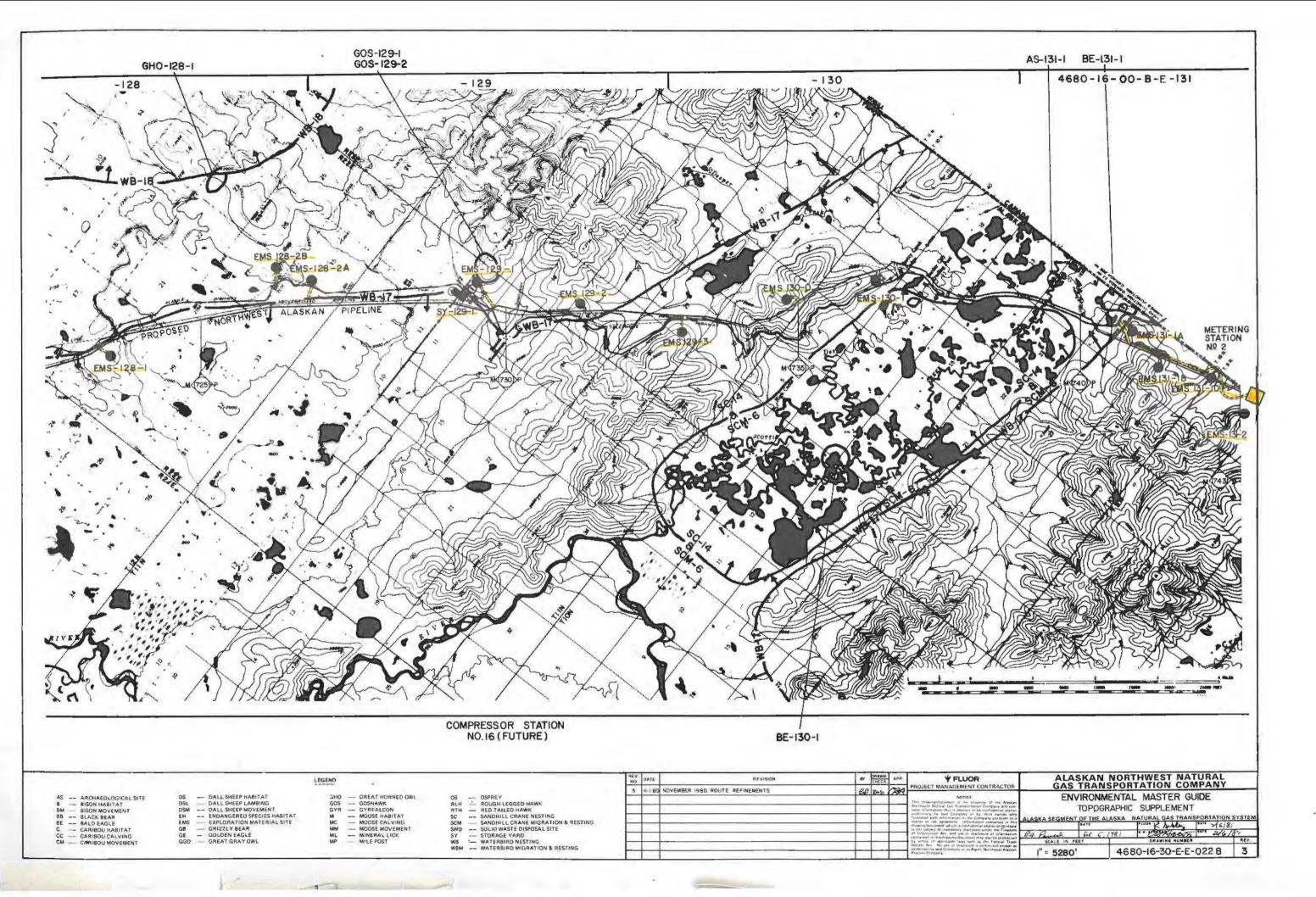












CONFIDENTIAL/PROPRIETARY