

**PARKS HIGHWAY CONNECTIONS -
MUSEUM DRIVE**

UTILITY CONFLICT REPORT
PROJECT NO. 30099

MATANUSKA-SUSITNA BOROUGH

Prepared by:
Hattenburg Dilley & Linnell, LLC
3335 Arctic Blvd., Suite 100
Anchorage, AK 99503

July 2010

INTRODUCTION

This Utility Conflict Report addresses existing utilities within the Parks Highway Connections – Museum Drive project for potential and obvious utility conflicts that may occur during the project construction.

This project begins at the intersection of Sylvan Road and Marigold Drive and ends at the existing Museum Drive (formerly Neuser Drive). Proposed improvements are as follows:

- Extend Museum Drive to Sylvan Road.
- Construct a road from the existing connection of Museum Drive with the Parks Highway that will intersect the new Museum Drive perpendicularly.
- Obliterate the remaining unused portion of the existing Museum Drive roadway.

Below is a list of the utilities found within the project area and their respective owners.

Electric / Illumination	MEA
Telephone / Fiber Optic	MTA
Television Cable	GCI
Natural Gas	Enstar
Misc. Utilities	RV Park (Private)
Drainage Structures	Matanuska-Susitna Borough\Alaska Depart of Transportation and Public Facilities (ADOT&PF)

Potential utility conflicts with the proposed improvements are discussed below.

ELECTRICAL - MEA

The majority of the electrical distribution in this project area is by means of overhead lines mounted on electric utility poles. These lines run primarily north-south and cross the proposed Museum Drive alignment in three locations. There is also an underground electric line that parallels the west side of Sylvan Road.

Below is a table of existing electrical line locations and potential conflicts.

STA	OFFSET	UTILITY CONFLICT	DESCRIPTION OF CONFLICT	RECOMMENDED ACTION	ESTIMATED COST
"M"9+47	Crossing	UG Electric	Near Light Pole and Load Center	Locate and work around	\$0
"M"62+13	Crossing	OH Electric	Across roadway	Locate and work around	\$0
"M"101+97	Crossing	OH Electric	Across roadway	Locate and work around	\$0
"M"102+83	Crossing 40° Skew	OH Electric	Below 20.5 vertical clearance	Adjust pole heights	\$14,000
"M"103+10	RT	Electric Pole	Within fill slope	Relocate or Fill around	\$0-7,200

TELEPHONE AND FIBER-OPTIC - MTA

There are two buried telephone cables that cross the proposed Museum Drive alignment and one that crosses the proposed Museum Spur Road alignment. The depth of the buried cables is assumed to be 2 feet below existing grade. Using this assumption, these cables are beneath the proposed cut and fill limits and should be worked around during construction.

There are three buried telephone cables and one buried fiber-optic line that parallel the west side of Sylvan Road. Along the west side of Rocky Ridge Road there are two buried telephone lines. These lines are outside of our construction area and are not expected to conflict with proposed construction.

The following is a table of the fiber-optic crossing location:

STA	OFFSET	UTILITY CONFLICT	DESCRIPTION OF CONFLICT	RECOMMENDED ACTION	ESTIMATED COST
"M"9+39	Crossing	FO Cable	Near Light Pole and Load Center	Locate and work around	\$0

The following is a table of telephone locations and potential conflicts:

STA	OFFSET	UTILITY CONFLICT	DESCRIPTION OF CONFLICT	RECOMMENDED ACTION	ESTIMATED COST
"M"9+40	Crossing	UG Telephone Cable	Near Light Pole and Load Center	Locate and work around	\$0
"M"9+43	Crossing	UG Telephone Cable	Near Light Pole and Load Center	Locate and work around	\$0
"M"9+57	Crossing	UG Telephone Cable	Near Light Pole and Load Center	Locate and work around	\$0
"M"62+27	Crossing	UG Telephone Cable	Beneath fill and Near Light Pole	Locate and work around	\$0
"M"62+31	Crossing	UG Telephone Cable	Beneath fill and Near Light Pole	Locate and work around	\$0
"M"115+73	Crossing	UG Telephone Cable	Outside of construction area	No conflict	\$0
"M"115+81	Crossing	UG Telephone Cable	Outside of construction area	No conflict	\$0
"MS"18+04	Crossing	UG Telephone Cable	Beneath fill	Locate and work around	\$0

CABLE - GCI

There are three overhead television cables that cross the proposed Museum Drive alignment. These cables are mounted on electric utility poles and should be worked around during construction.

The following is a table of the cable crossing locations:

STA	OFFSET	UTILITY CONFLICT	DESCRIPTION OF CONFLICT	RECOMMENDED ACTION	ESTIMATED COST
"M"62+25	Crossing	OH Cable	Across Roadway & Near Light Pole	Locate and work around	\$0
"M"102+05	Crossing	OH Cable	Across Roadway & Near Light Pole	Locate and work around	\$0
"M"102+83	Crossing	OH Cable	Below 20.5 vertical clearance & Near Light Pole & Load Center	Locate and work around	\$0

NATURAL GAS - ENSTAR

There are two natural gas line crossings locations in the Museum Drive Project area. One line is beneath the proposed fill limits for the Museum Spur Road alignment and should be worked around during construction. The second location is parallel to Vine Road on the east side, where there are two gas lines on top of each other in this location. These lines will cross the proposed Museum Drive alignment below the fill limits and are not expected to be impacted.

There is a gas line along the west side of Sylvan Road and a gas line along the west side of Rocky Ridge Road. They are both outside of the construction limits and no conflicts are anticipated.

The following is a table of natural gas locations and potential conflicts:

STA	OFFSET	UTILITY CONFLICT	DESCRIPTION OF CONFLICT	RECOMMENDED ACTION	ESTIMATED COST
"M"9+67	Crossing	Gas Line	Near Light Pole	Locate and work around	\$0
"M"63+10	Crossing	(2) Gas Line	Beneath Fill and Near Light Pole	Locate and work around	\$0
"M"115+72	Crossing	Gas Line	Outside of construction area	No conflict	\$0
"MS"17+69	Crossing	Gas Line	Beneath Fill	Locate and work around	\$0

DRAINAGE STRUCTURES – MSB/ADOT&PF

There are four existing culverts in the Museum Drive project area. One culvert will be removed as part of the obliteration of existing Museum Drive. One culvert will require replacement, and one culvert will require extension.

The following is a table of existing storm drain structure locations and potential conflicts:

STA	OFFSET	UTILITY CONFLICT	DESCRIPTION OF CONFLICT	RECOMMENDED ACTION	ESTIMATED COST
"M"62+65	LT	Culvert	Within cut slope	Replace	\$12,500
"M"107+44	LT	Culvert	Within section of existing road to be removed	Remove	\$0
"MS"17+52	Crossing	Culvert	Within roadway reconstruction	Extend	\$2,180
"MS"19+01	Crossing	Culvert	Outside of Construction Area	No Conflict	\$0

MISC UTILITIES – RV Park (Private)

There are several private water service connections, sewer service cleanouts and electrical outlets at an RV park that lie within the proposed ROW. It is anticipated that the property owner will want to relocate or removed these utilities himself. The actual cost of the relocations or removal will be negotiated during the ROW acquisition process.

The following is a table of utilities within the proposed ROW:

STA	OFFSET	UTILITY CONFLICT	DESCRIPTION OF CONFLICT	RECOMMENDED ACTION	ESTIMATED COST
"M"36+95	LT	Water Spout	Within proposed ROW	Remove by others	\$500
"M"36+96	LT	Water Spout	Within proposed ROW	Remove by others	\$500
"M"37+03	LT	Sewer Cleanout	Within proposed ROW	Remove by others	\$2,500
"M"37+10	LT	Elec. Outlet	Within proposed ROW	Remove by others	\$500
"M"37+11	LT	(2) Elec. Outlet	Within proposed ROW	Remove by others	\$1,000
"M"37+11	LT	Sewer Cleanout	Within proposed ROW	Remove by others	\$2,500
"M"37+18	LT	(2) Sewer Cleanout	Within proposed ROW	Remove by others	\$5,000
"M"37+27	LT	(2) Water Spout	Within proposed ROW	Remove by others	\$1,000
"M"38+12	LT	Water Spout	Within proposed ROW	Remove by others	\$500
"M"38+13	LT	Water Spout	Within proposed ROW	Remove by others	\$500

"M"38+23	LT	Sewer Cleanout	Within proposed ROW	Remove by others	\$2,500
"M"38+24	LT	Sewer Cleanout	Within proposed ROW	Remove by others	\$2,500
"M"38+31	LT	Sewer Cleanout	Within proposed ROW	Remove by others	\$2,500
"M"38+32	LT	(4) Elec. Outlet	Within proposed ROW	Remove by others	\$2,000
"M"38+39	LT	(2) Sewer Cleanout	Within proposed ROW	Remove by others	\$5,000
"M"38+49	LT	Water Spout	Within proposed ROW	Remove by others	\$500
"M"38+50	LT	Water Spout	Within proposed ROW	Remove by others	\$500
"M"39+48	LT	Water spout	Within proposed ROW	Remove by others	\$500
"M"39+49	LT	Water Spout	Within proposed ROW	Remove by others	\$500
"M"39+51	LT	Elec. Outlet	Within proposed ROW	Remove by others	\$500
"M"39+53	LT	Elec. Outlet	Within proposed ROW	Remove by others	\$500
"M"39+58	LT	Sewer Cleanout	Within proposed ROW	Remove by others	\$2,500
"M"39+59	LT	Sewer Cleanout	Within proposed ROW	Remove by others	\$2,500

CONCLUSION

The total estimated cost of the utility impacts is shown below.

Utility	Cost
Electric and Illumination	\$ 21,200
Traffic Signals	\$ 0
Telephone and Fiber Optic	\$ 0
Gas	\$ 0
Storm Drain	\$ 14,680
Misc Utilities – RV Park (Private)	\$ 37,000
Total Estimated Utility Cost	\$ 72,880