STATE OF ALASKA
DEPARTMENT OF HIGHWAYS
SOUTHEASTERN DISTRICT
S-9999(1) & F-9999(1)
STANDARD SCHOOL CROSSING FLASHER
DOUGLAS, HAINES, JUNEAU, PETERSBURG,
SITKA, SKAGWAY, AND WRANGELL

"As Built"
Contractor: Service Electric Co.
Project Eng: Gary Kanter
Date: Began: May 1, 1973
Date Ended: Aug. 24, 1973
1. All dimensions are approximate only and the exact locations of all signs will be established by the project engineer.
2. All devices and equipment removed by the contractor (Signs, Flashers) shall be stockpiled in the local site maintenance yard for return to the respective owner (city, state).
3. Contractor is to contact power company in each town for proper installation of conductors on power poles and location of load centers and weatherheads.
4. Before installing flasher wires in conduit for the flashes installation only, remove existing illumination wires. One illumination wire may be left for use as a pull wire or a separate pull wire may be pulled in when removing the illumination wires. The illumination and flasher wires shall then be pulled into the conduit together.
5. To remove and replace wire in the existing illumination conduits in houses, it should not be necessary to remove the light poles. However, if the hole does not provide sufficient room to pull the wires, the light pole may be removed. In all cases, the poles shall be replaced and in operation each night.
6. The extension of the Type II J-Boxes in houses may be concrete or brick. The wall of concrete or brick shall be 6" thick and the brick option shall be 6" thick. Concrete or mortar shall conform to the Standard Specifications. Backfill around the J-Box and extension shall be compacted with a "scoop stick" type compactor.
7. All underground cables shall be in 2" rigid metal conduit.
8. Flasher posts at Wrangell and all on the Wrangell Highway (at the B&I Astrad) shall have breakaway bases. See Standard Drawing T-72.
9. Wood poles to be furnished by the contractor shall be 5/4th's, Class 5.
10. The meter at all load centers shall face away from the road.
11. The down light shall be weathertight and equipped with two Std. 60-watt signal lamps. It shall be attached to the lower signal section.
12. The time switches shall consist of a 24-hour time clock with a minimum of four off-on operations per day. The clock shall be equipped with a relay "skip a day" feature capable of omitting any day of the week from the timing operation. It shall be equipped with a wound spring carry over capable of running the clock for a minimum of 10 hours in the event of a power failure. The switches shall have a minimum "on" time of one hour and a maximum "on" time of 24 hours. The clock motor shall operate at 120-watts AC. The switch shall be of the SPT Type with tungsten contacts rated 120-Amps. The unit shall be mounted in the load center cabinet such that the connections are easily accessible.
FLASHERS AT B.I.A INSTITUTE
4.1 Miles from Bennet Street
on Wrangell Highway

WRANGLELL, BENNET STREET-
CHURCH STREET - WRANGLELL HWY
FLASHER LOCATION MAP
Install 51-136 School Advance Sign on Existing Light Standard

Controller #2
Install "Speed Limit 30" when Flashing S4-324 w/Flashed. Excavate Down to Existing Illumination Conduit and Install Type II Junction Box 1' from Flasher. See Details Sheet No. 3.

Broken conduit repaired under sidewalk on extra work order, Run 2-10 #10 AWG Cable thru Existing Conduit. Approx. 465 feet required.
Install 52-136 School Crossing Sign on existing light standard

Fourth Avenue

Install 52-136 School Crossing Sign on existing light standard


Remove Existing "School Crossing" Sign

Third Avenue

Install "Speed Limit 25" R2-1-30 Sign opposite Flasher on existing light standard

Controller #1

Install "School Speed Limit 20" when Flashing S4-324 w/Flashed. Excavate down to existing illumination conduit and install Type II Junction Box 1' from Flasher. See Details Sheet No. 3.

Install School Advance Sign, 51-136

Note:
Type II Junction Boxes installed without lower brick-conduits are bent and stubbed up into boxes
Note: Use Stand-off Brackets to Run Conduit Down Pole, As Per Utility Requirement.
Install 'Speed Limit 30' Sign R2-1.30

Remove Existing 'School Crossing Ahead' and Install SI-1.36 Advance School Sign.

Remove Existing 'Speed Limit 30' Sign

Install School Speed Limit 20 when Flashing SI-1.36 Sign w/Flasher. Provide type I J-Box Controller #2

Remove Existing School Speed Limit 20 when Children are Present SI-3 Sign.

Install "Speed Limit 30" R2-1.30 Sign

Installed JB and jacked conduit under roadway 3' deep

2" Conduit installed

JB1 - Base 50' 3' from
JB2 - JB3 40' 3'
JB3 - JB4 200' 3'
JB4 - JB5 200' 6'

Remove Existing 'School Crossing' and Install SI-1.36 School Crossing Sign.

Run 2-1c #8 AwG Cable Underground in 2" Conduit from load center to JB for Flasher. Approx. 750 feet reg'd.

2" Conduit run moved across street

Install "Speed Limit 30" R2-11/50.36

Controller #1

Server wood pole - Install School Speed Limit 20 when Flashing SI-1.36 Sign w/Flasher. Install load center cabinet with meter base on back of flashing box. Flasher breaker & time switch shelter in the same cabinet.

Provide weatherhead & run 2-1c #8 AwG in down-pole to load center of Flasher pole. Remove Existing 'School-Speed Limit' when Children are Present SI-2 Sign.

Remove Existing 'School Crossing Ahead' Install SI-1.36 School Advance Sign.

Relocate Existing 'Speed Limit 90' R2-1/40.36 130 feet South of East Location.

Relocate Existing 'Speed Limit 30' R2-100.36 and 'Speed Zone Ahead' R2-5.36 150 feet South of their Existing Locations.
Install S1-136 Advance School Sign
Remove Existing S4-2 "School Speed Limit 20 when Children are Present".

Install "School Speed Limit 20 when Flashing" S4-3.8 Sign. Provide Type I J-Box each side of road.

2' Conduit jacked under roadway 3' deep JBL

Controller #1

Run 2-1c #2 AWG Cable underground in 2" Conduit from load center to Flasher, Approx 350 feet Required.

Private Drive

Controller #2

Install "Speed Limit 45" R2-1.30 Sign

Run 2-1c #2 AWG Cable underground in 2" Conduit from load center to Flasher JBS Approx 350' Req'd.

Provide J-Box v Run 2-1c #2 AWG Cable in Conduit - Under Road to Flasher, Approx 90 feet Req'd.

Install School Speed Limit 20 when Flashing S4-3.24 Sign w/ Flasher

Remove Existing S4-3 "School Speed Limit 20 when Children are Present".

Run 2-1c #2 AWG Cable underground in 2" Conduit from load center to Flasher JBS Approx 350' Req'd.

Provide J-Box v Run 2-1c #2 AWG Cable in Conduit - Under Road to Flasher, Approx 90 feet Req'd.

Remove Existing Flasher.

Remove Existing School Crossing Sign When Occupied. Install 52-136 School Crossing Sign. Install Load Center. For Details See Sheet No. 3. Provide Type I J-Box #2" Conduit from load center to J-Box.

Remove Existing School Crossing Sign When Occupied. Install 52-136 School Crossing Sign. Install Load Center. For Details See Sheet No. 3. Provide Type I J-Box #2" Conduit from load center to J-Box.

2' Conduit installed

JB1 - Base 15'
JB2 - JB2 - 43'
JB3 - JB3 - 200'
JB4 - JB4 - 100'
JB5 - JB5 - 200'
JB6 - Base 15'

All 2' conduit installed 8' from edge of roadway 2' deep

Remove Existing "Speed Zone Ahead"
Install "School Speed Limit 20" when flashing
Install load center cabinet with meter base on back of flasher pole. Flasher breaker & time switch shall be in the same control cabinet.

Labreron Pole

Note: Signs at this location shall not be used.

Install "Speed Limit 45" Sign

Install S2-1.36 School Crossing Sign each side of road as directed by the Engineer.
Install 31-3E, Advance School Sign.

D Street

Install School Speed Limit 20 when Flashing.

Install "Increased Speed Limit 20" when Flashing.

Provide Weatherhead Flasher Cables in Conduit. Route E. 250' #2 AWG Cable in Conduit. Route approximately 500' feet required.

C Street

High School

Run Triplex Overhead from Load Center to Weatherhead. Approx. 520' feet required.

Install 31-3E, Advance School Sign. Approx. 70' feet required.

Controller #1

First Street

Install 31-3E, Advance School Sign. Approx. 70' feet required.

8 Street

Install Load Center. For details see Sheet No. 3.

D Street

Install "Increased Speed Limit 20" when Flashing. Sign Weatherhead Flasher and Run #2, #2 AWG Cable in Conduit. Under Road to Flasher. Approx. 70' feet required.

Controller #1

Third Street

Install 31-3E, Advance School Sign.
Install 51'-3.6" School Advance Sign

2" conduit, 30' deep center of alley

Provide Weatherhead + Run 8-4c #12 AWG Cable in conduit down pole, under sidewalk to Flasher. Approx. 85' Acl'd. Install School Speed Limit 20 when Flashing. SA-324 Sign "/Flasher.

Controller #1

Install "Speed Limit 25" SE-220-24 Sign R2-1.30

Controller #2

Install "Speed Limit 25" SE-220-24 Sign R2-1.30

Install SE-1.36 School Crossing Sign

Remove Existing School Sign

Remove Existing School Xing Sign

Install Load Center. For Details See Sheet No. 3

Install SE-1.36 School Crossing Sign

Remove Existing School Sign

Remove Existing School Xing Sign

Install SE-1.36 School Crossing Sign

Remove Existing School Sign

Remove Existing School Xing Sign

Install 54'-3.6" School Speed Limit 20 When Flashing Sign "/Flasher. Provide Weatherhead + Run 8-4c #12 AWG Cable in conduit down Pole to Flasher. Approx. 70 feet Acl'd. Installed in parking strip 20' deep 14 Th Street

Install SE-1.36 Advance School Sign

Install 51'-3.6" Advance School Sign

10 Th Street

11 Th Street

12 Th Street

13 Th Street

5' Triply

Run "FREE-PLAY" Cable Overhead from load center to weatherhead. Approx. 300 feet Acl'd.

Main Street

Broadway

Street

Street

Street

Street

Street

Street
Note: Attach conduit to concrete box culvert at midpoint using expansion bolts or strap to railing posts as directed by the engineer.