

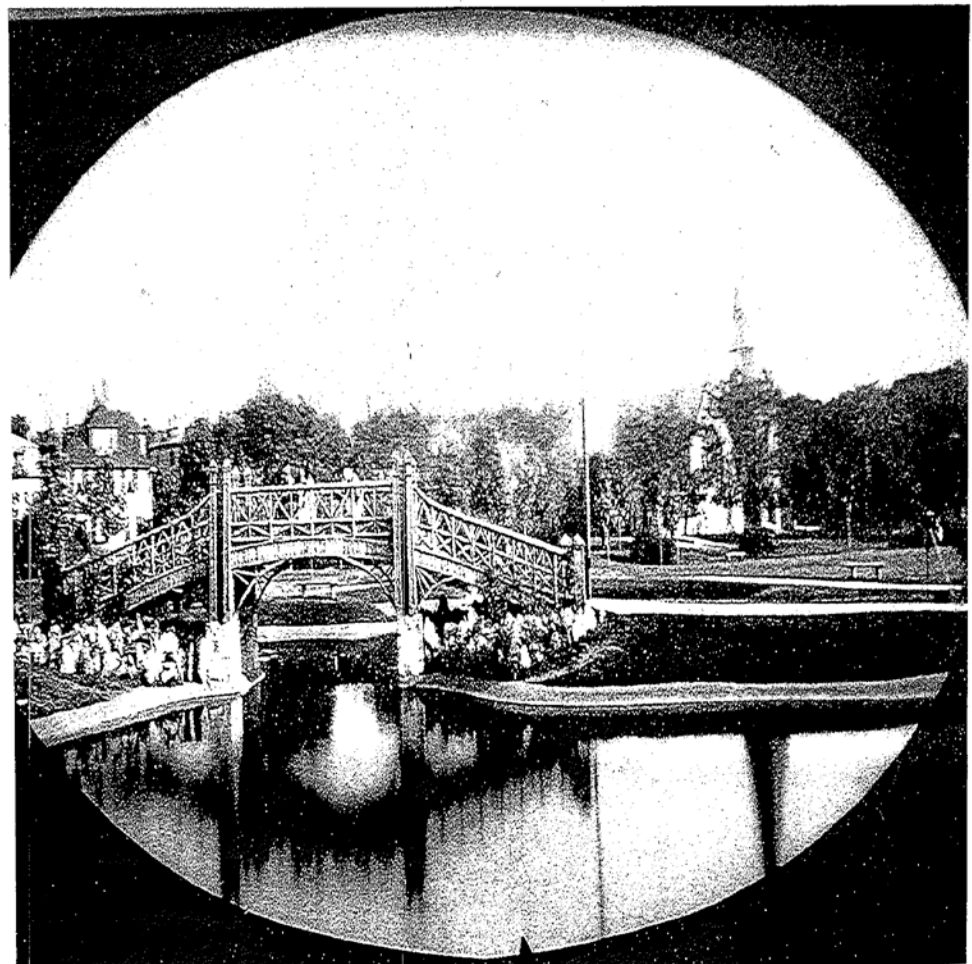
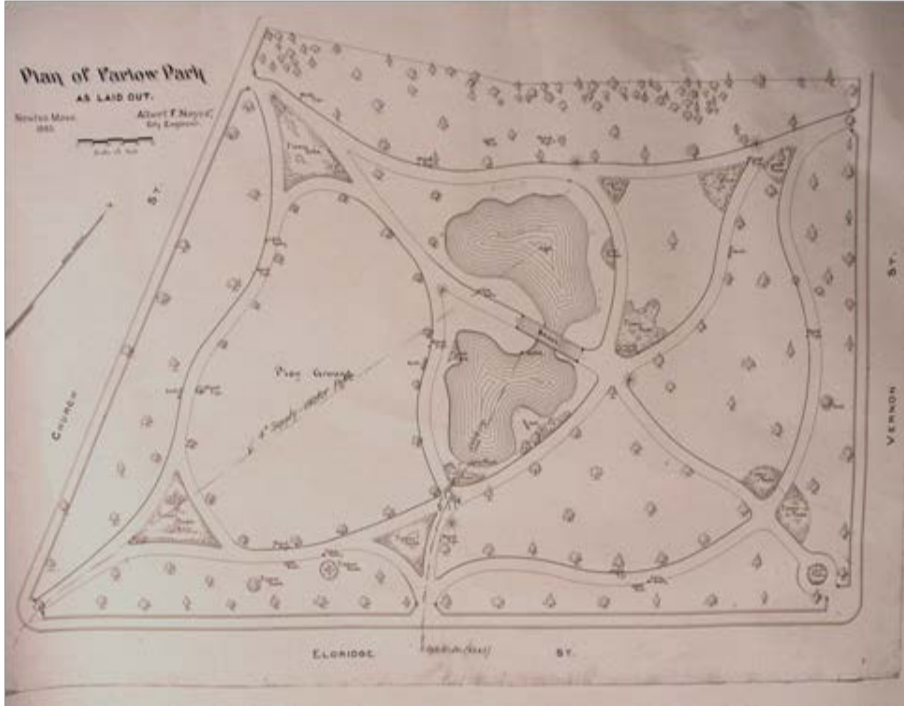
Location of Farlow Park



Images of Farlow Park Pond and Bridge, ca. 1900-1930



Original plan for Farlow Park, 1885



Farlow Park, Newton Corner, is seen here in 1888, shortly after the landscaping had been completed.

Farlow Park in 1888



Farlow Park
in the 1880s



Farlow Park
pond & bridge

in 2007 (at left)

during 2010
exploration of pond
basin condition &
drilling for potential
pond water supply
(below)



National Register of Historic Places

State Buildings Historic Districts Travel Sites Vacant/Not in Use

MASSACHUSETTS - Middlesex County

Farlow and Kendrick Parks Historic District (added 1982 - District - #82002745)

Also known as **See Also: Farlow and Kendrick Parks Historic District (Bounda**

Roughly bounded by Franklin, Park, Church, Center and Wesley Sts. and Maple Ave., Newton

Historic Significance: Architecture/Engineering

Architect, builder, or engineer: Multiple

Architectural Style: Greek Revival, Late Victorian, Colonial Revival

Area of Significance: Architecture, Landscape Architecture

Period of Significance: 1800-1824, 1825-1849, 1850-1874, 1875-1899, 1900-1924

Owner: Local Gov't, Private

Historic Function: Domestic, Landscape, Religion

Historic Sub-function: Park, Religious Structure, Single Dwelling

Current Function: Domestic, Landscape, Religion

Current Sub-function: Park, Religious Structure, Single Dwelling

Farlow and Kendrick Parks Historic District (Boundary Increase) (added 1986 - District - #86001739)

Also known as **See Also: Farlow and Kendrick Parks Historic District 223, 226, 234, 237, 242, 243, 248, and 256 Park St., Newton**

Historic Significance: Architecture/Engineering, Event

Architect, builder, or engineer: Unknown

Architectural Style: Greek Revival, Late Victorian, Colonial Revival

Area of Significance: Social History, Architecture

Period of Significance: 1825-1849, 1850-1874, 1875-1899

Owner: Private

Historic Function: Domestic

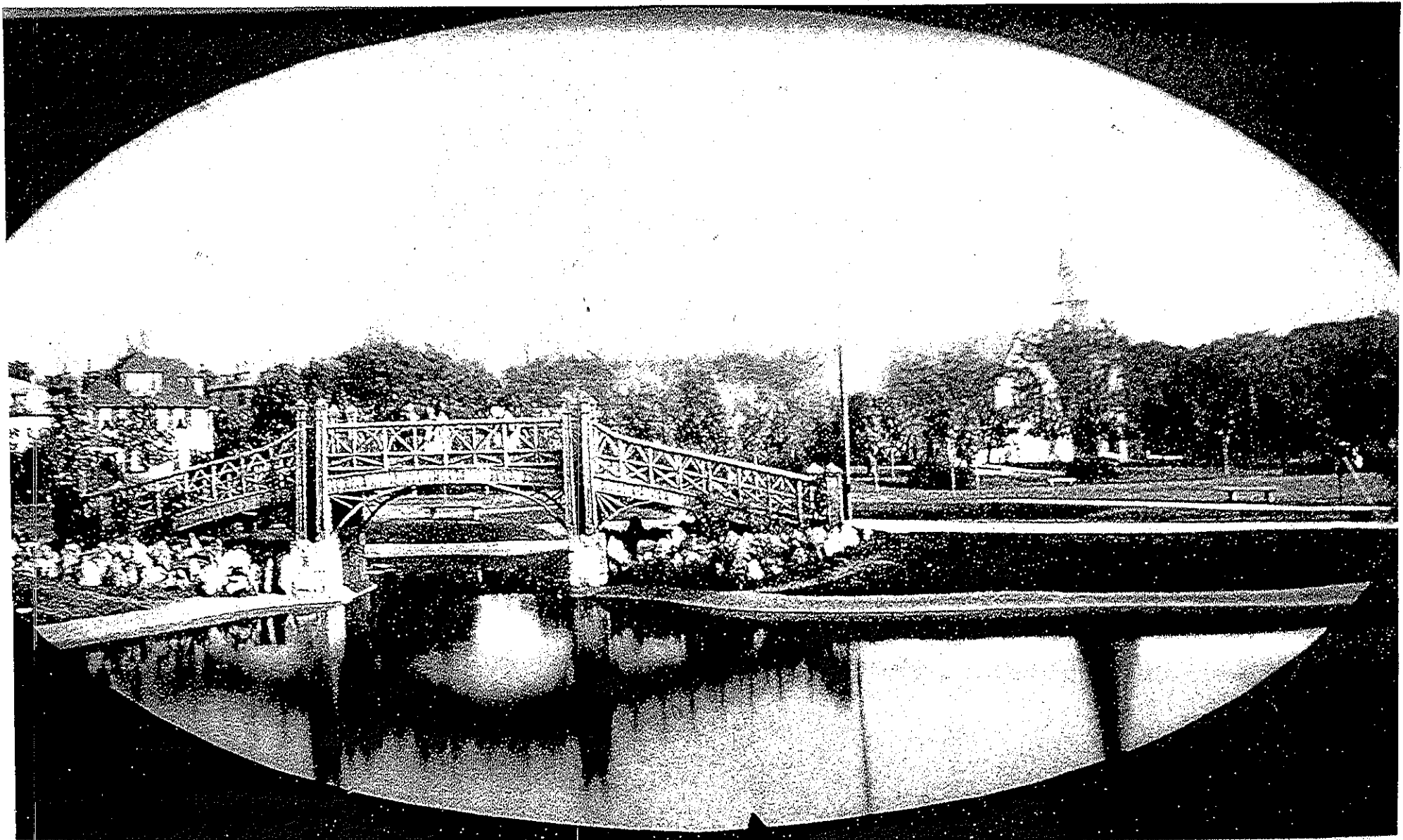
Historic Sub-function: Single Dwelling

Current Function: Domestic

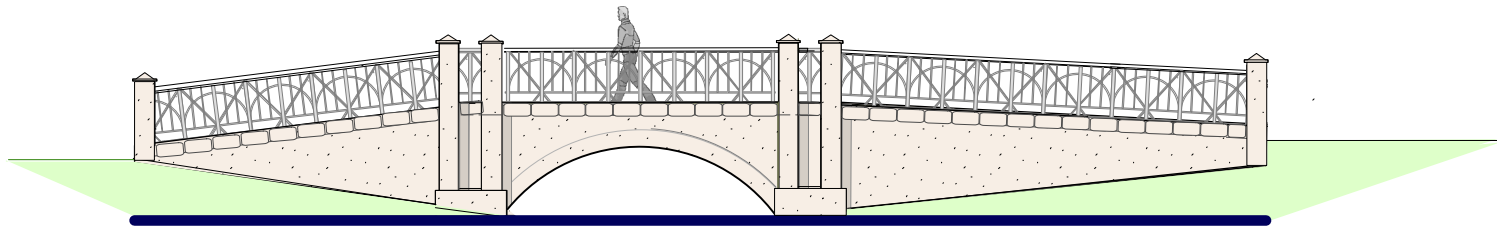
Current Sub-function: Single Dwelling

Farmer, Kimball, House (added 1985 - Building - #85001031) 1173 Massachusetts Ave., Arlington

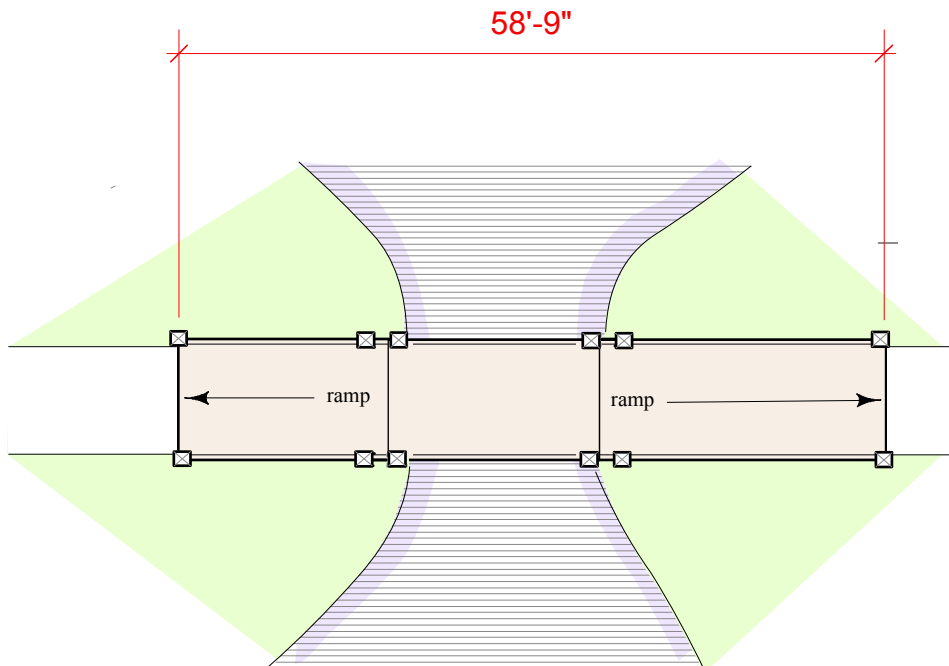
Historic Significance: Architecture/Engineering



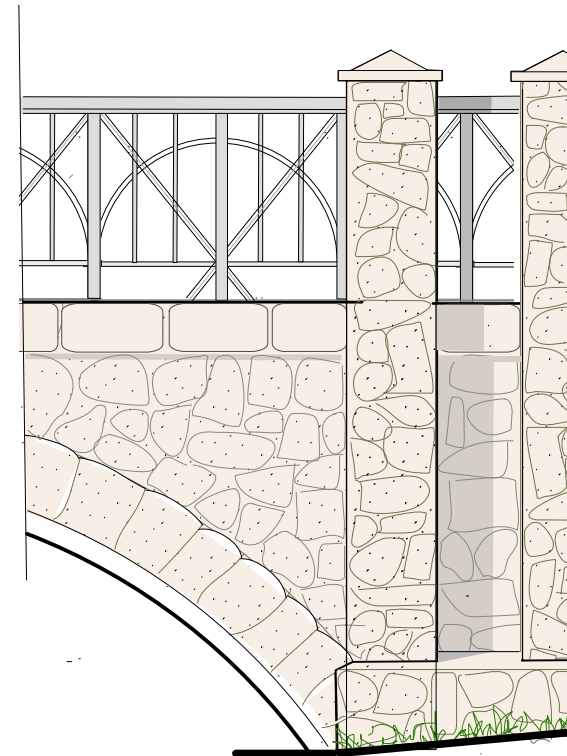
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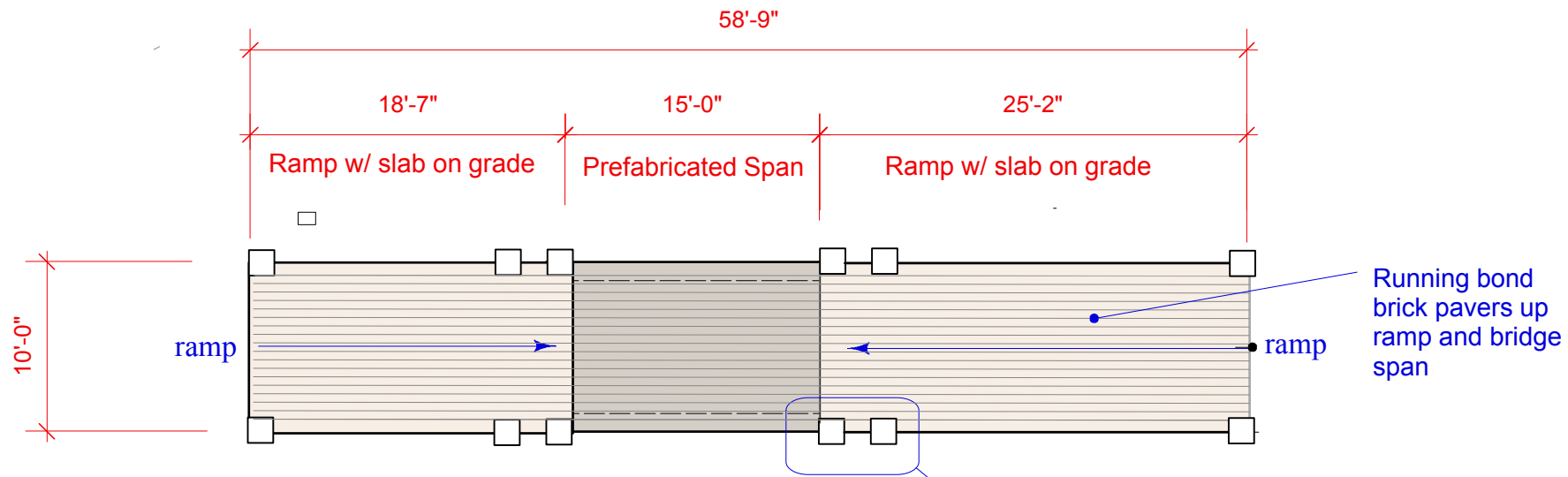
Bridge Elevation



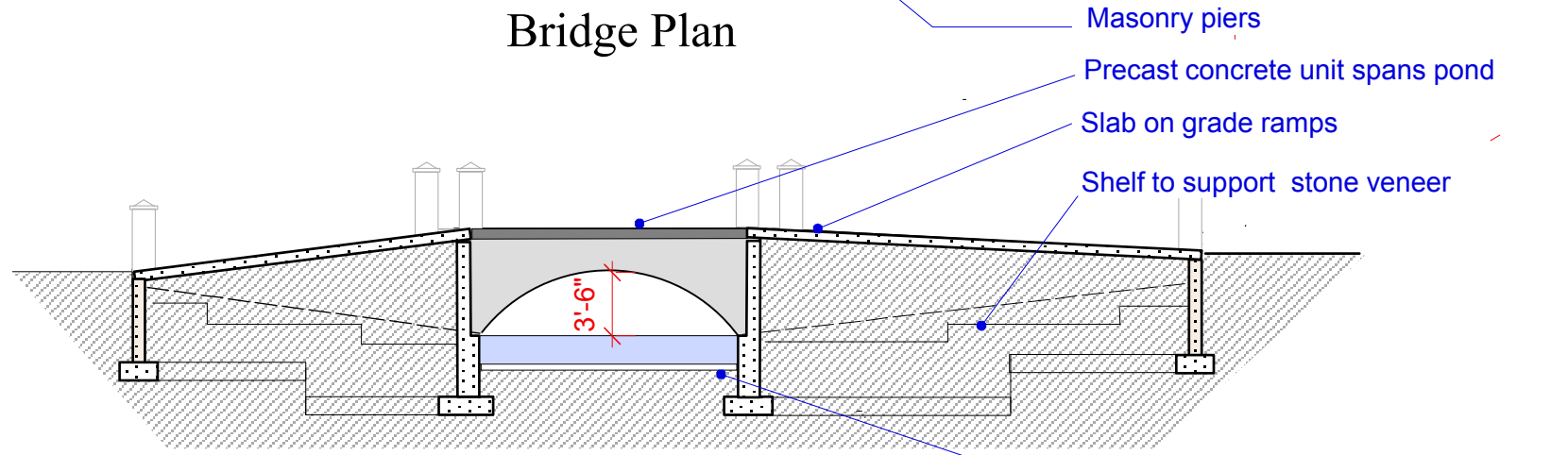
Bridge Plan



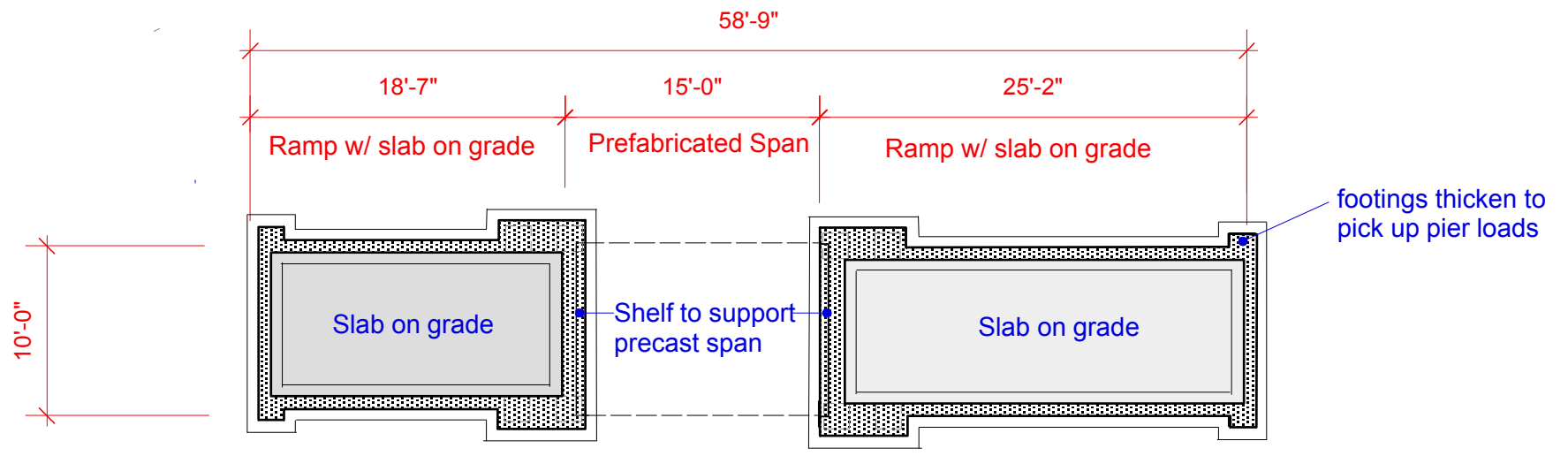
Detail



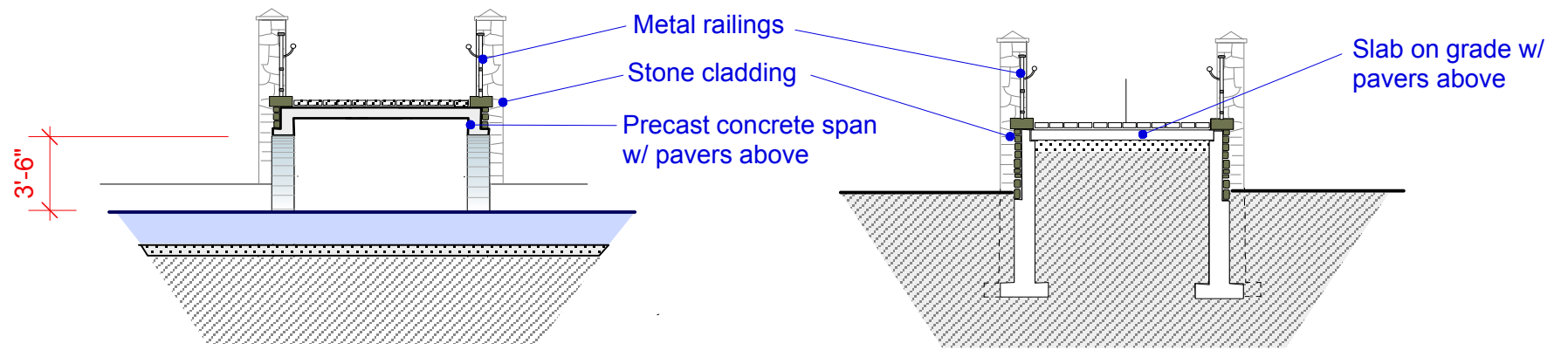
Bridge Plan



Bridge Longitudinal Section

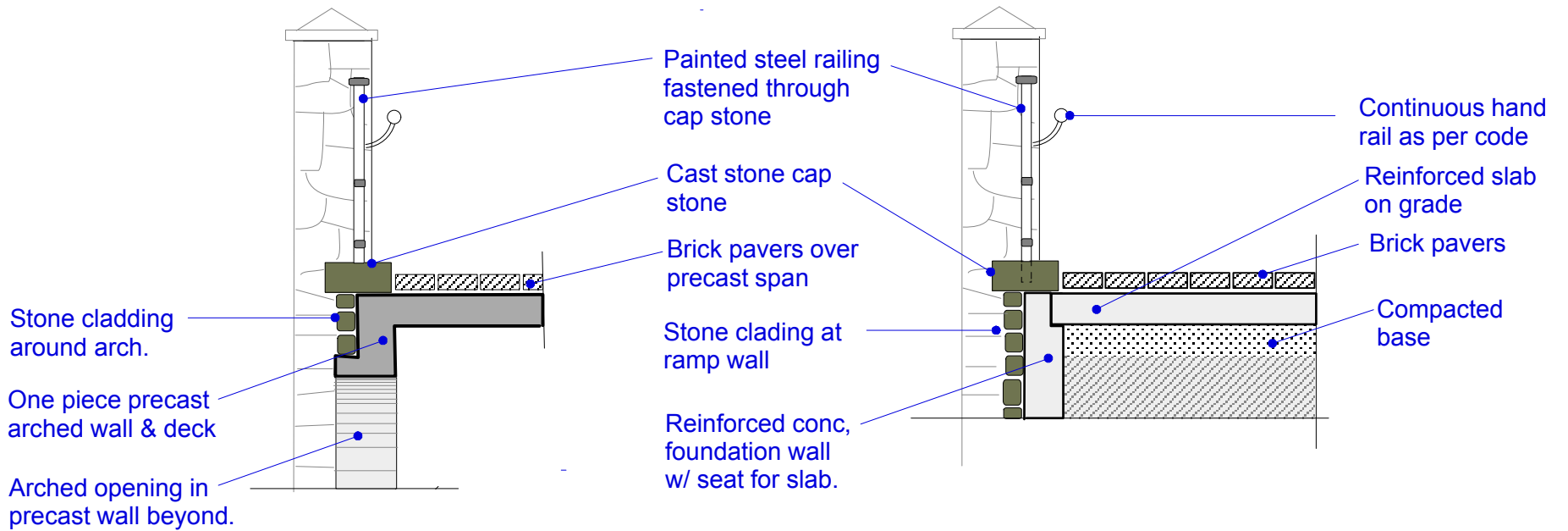


Foundation Plan



Section at Precast Span

Section at Ramp



Section at Precast Span

Section at ramp wall

Performance Specification
Farlow Park Pond Irrigation and Pond Water Supply Project

General: The purpose of the project is to install a new submersible well pump maximum 5 horsepower, capable for pumping 25 gallons per minute at 50 psi to the irrigation system. The new well pump will be set approximately 350 feet deep in the existing Farlow Pond Well.

The following items will be provided:

One well pump:

- 5 Horsepower, 208 volt 3 phase motor sized for VFD Service
- 304 stainless steel well pump
- 25 gpm at 415 feet TDH

Well level sensor

- Shall de-energize pump motor if water inside well casing drops to 10 feet above well pump assembly. Provide 1 inch conduit to Well Controller with instrumentation wiring.

Drop Pipe and Pitless Adapter

Provide 2 inch Drop Pipe and 2 inch pitless adaptor. Provide two ¾ inch pipes, two ¾ inch valves and valve boxes and 2 inch isolation gate and valve box with t wrench extension to ground surface to allow use of air to winterize well drop pipe and 2 inch pipe to irrigation system.

Pipe to Irrigation System

Install 2 inch pipe from Well to Irrigation system (located adjacent to Pump Control Cabinets). Materials and methods to comply with Specification 02810.

Variable Speed Control

- Provide variable speed pump controller to convert single phase supply power to 3 phase power supply for new well pump. Provide lightning protection for VFD. VFD Fail status shall energize external alarm light.

PLC Controller

- Provide PLC based controller to:
 - Energize de energize well pump
 - Shut down well pump based on well drawdown
 - Shut down pump based on loss of water pressure (20 psi initial set point)
 - Provide control signal to well VFD to supply constant pressure to Irrigation system (initial set point 50 psi).

To energize irrigation system when called for by time clock (provide field adjustable setting for irrigation time clock) and allowed by time clock, temperature sensor (initial well pump lock out setting of 40 F) and rain sensor gauge.

Control solenoid valve to irrigation system

Energize well pump to fill Farlow Pond when called for by low pond level sensor and to de energize the well pump when high level sensor is energized.

Irrigation setting shall take precedence over pond filling function.

Control solenoid valve for well water flow to Farlow Pond. Provide backpressure valve if required for proper well pump VFD operation.

Pump or system fail shall energize external alarm light.

PLC supplier shall coordinate with well pump start signals from the irrigation system controller.

Pond Level Sensors

Provide two water level sensors for high and low level water sensing in pond. Provide low voltage wiring to PLC Controller. General Contractor to provide stainless steel pipe anchored to pond bottom and bridge to attach the pond level sensors.

VFD and PLC Cabinets

Provide separate 304 stainless steel cabinets for VFD and PLC controller. Provide external heat sink and fan for cooling VFD and PLC. Provide lockable cabinets with yellow alarm light on top of each cabinet. Provide custom engraved sign with instructions for department to call in event of alarm. Provide special isolated ground grid for VFD and PLC. Provide lightning protection for VFD/PLC Cabinets. Provide shop drawings for internal wiring of VFD/PLC Cabinet.

Irrigation System Control and Cabinet

The irrigation control system provided by Specification Section 02810 will require a 20 amp single phase power connection. All other wiring, zone valves and controls associated with the irrigation will be provided by Section 02810. The Irrigation Contractor shall be responsible for integrating well pump start signals with the Well Pump VFD PLC.

Irrigation Cabinet shall be located adjacent to Well Pump VFD and PLC Cabinets.

Commissioning, Training and Operation and Maintenance Manuals

After irrigation and pond filing system has been started up and operating without failure for 5 days, provide 4 hours on site training for OWNER's staff. Provide three (3) copies of O&M Manuals for all components including wiring drawings.