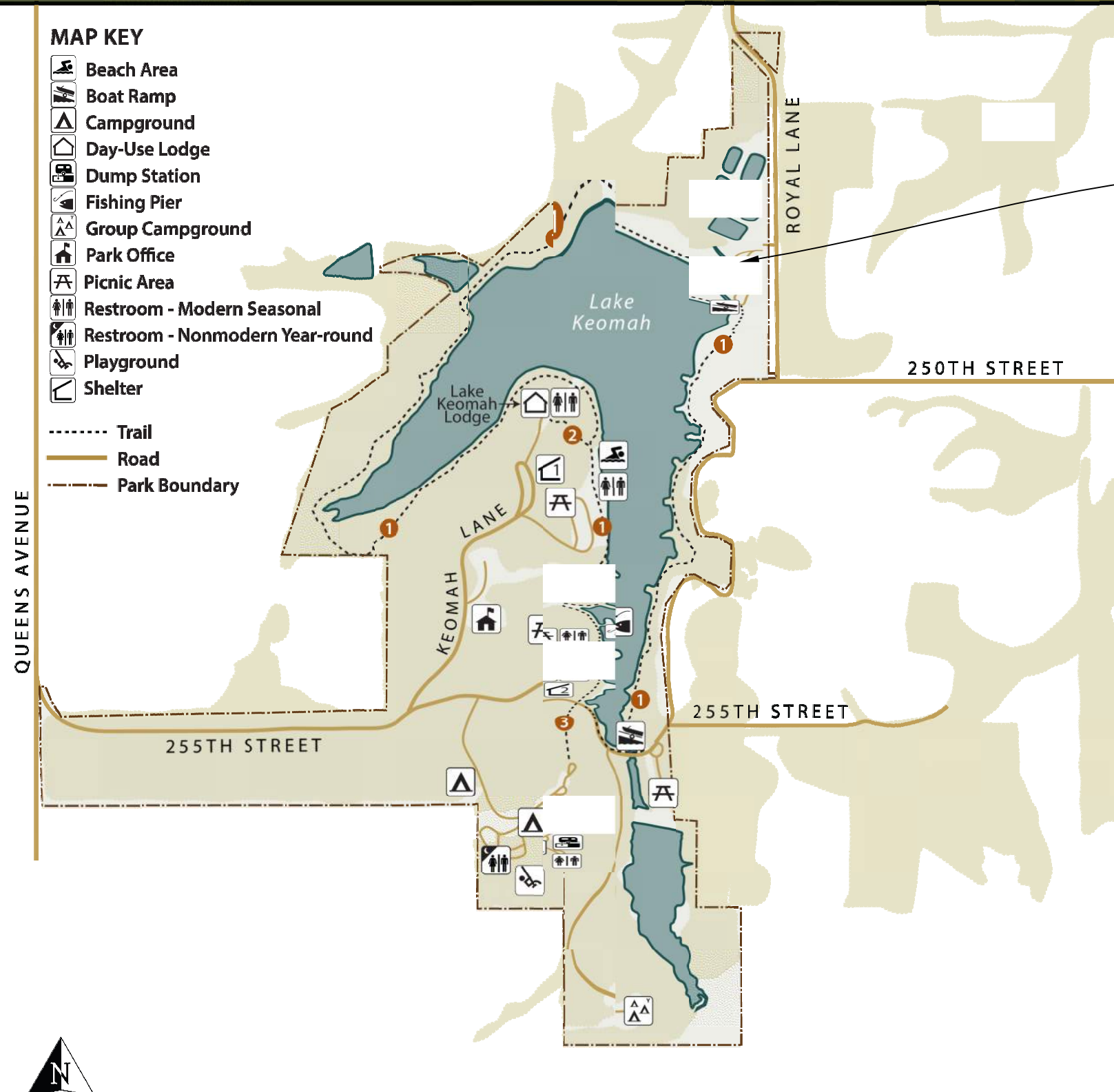




MAP KEY

- Beach Area
- Boat Ramp
- Campground
- Day-Use Lodge
- Dump Station
- Fishing Pier
- Group Campground
- Park Office
- Picnic Area
- Restroom - Modern Seasonal
- Restroom - Nonmodern Year-round
- Playground
- Shelter

- Trail
- Road
- Park Boundary



Project Area (Spillway)



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Estimated Quantities

Item	Description	Quantity	Unit
1	Mobilization	1	LS
2	Existing Bridge Removal and Disposal	1	LS
3	Bridge Transportation	1	LS
4	Bridge Abutments	1	LS
5	Bridge Installation	1	LS
6	Bridge Repairs	1	LS
7	Site Restoration, Seed, Fertilizer, Mulch	1	LS

Estimate Reference Information

1. Includes incidentals, mobilizing men & equipment, bonding & insurance costs, etc.
2. Remove existing bridge over spillway and dispose offsite.
3. Load and transport a 60'x7' steel bridge from the Stephens State Forest to Lake Keomah State Park. Bridge is estimated to weigh 14,000 lbs.
4. Includes concrete, reinforcement, anchor bolts, bearing plates, and grease. Abutments may be either cast-in-place or precast. Use 4000 psi concrete.
5. Includes crane to set bridge on abutments.
6. Remove existing wood decking and dispose. Replace with 2x10 treated wood decking. Butt the boards tight. May need to rip a few boards narrower or use a 2x12 to make the length come out right. Includes any necessary replacement hardware. Remove 4 pipes that are welded on the center of the bridge span. Grind the welds off smooth. Also, fill any bullet holes with weld and grind smooth to blend in. Remove yellow/black object markers.
7. Seed with a full sun lawn mixture with starter fertilizer and mulch.

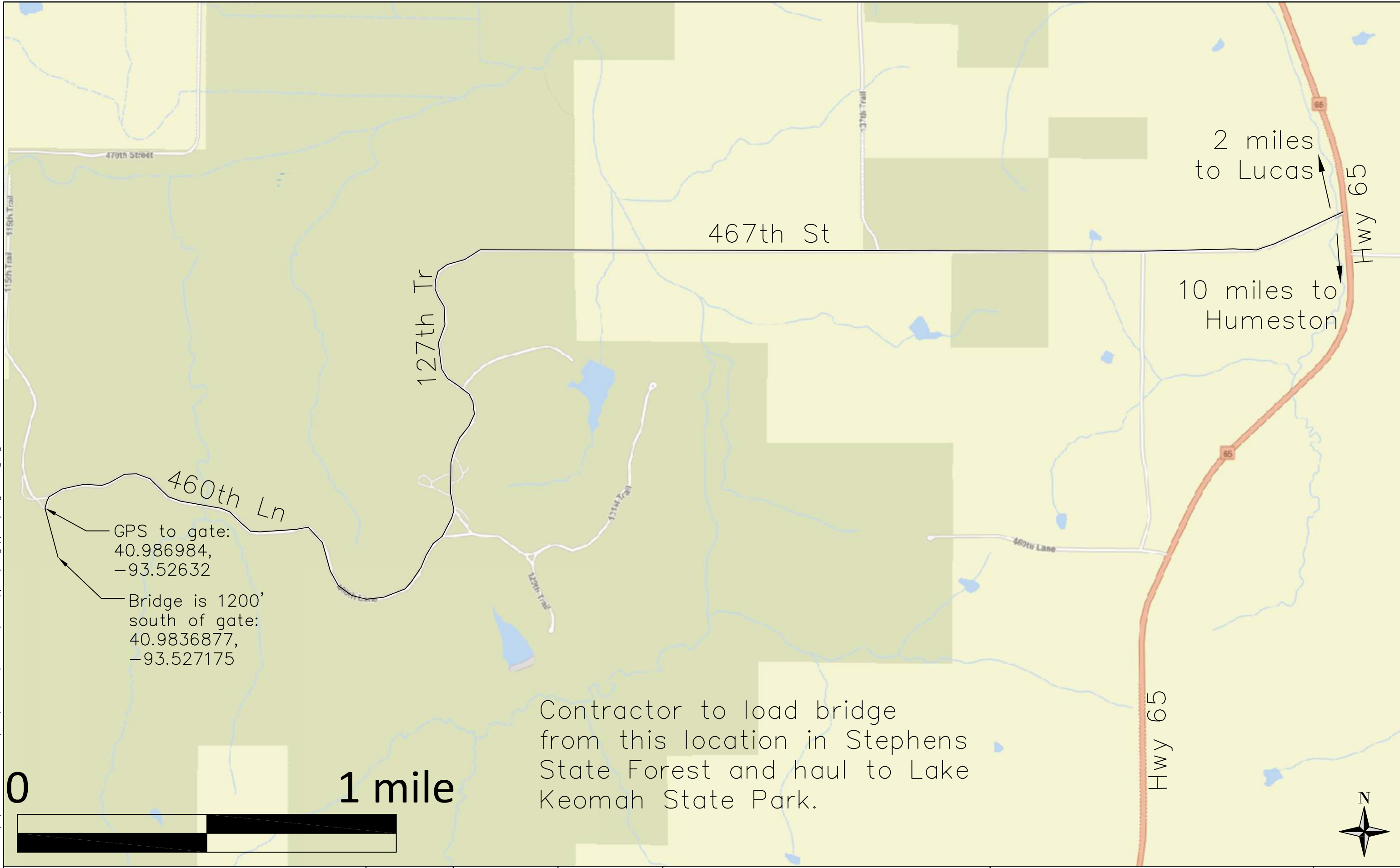
General Information

1. Verify actual locations and elevations with DNR Engineer.
2. All work shall conform to and be performed in accordance with all applicable codes and ordinances.
3. The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.
4. The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.
5. It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.
6. The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.
7. Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.
8. The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.
9. The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.



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2 miles to Lucas

10 miles to Humeston

GPS to gate:
40.986984,
-93.52632

Bridge is 1200'
south of gate:
40.9836877,
-93.527175

Contractor to load bridge
from this location in Stephens
State Forest and haul to Lake
Keomah State Park.



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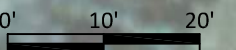
Remove and dispose
existing bridge.

Install footings and bridge
as detailed on page 6.

Spillway

DNR Field Engineer will
provide construction
staking.

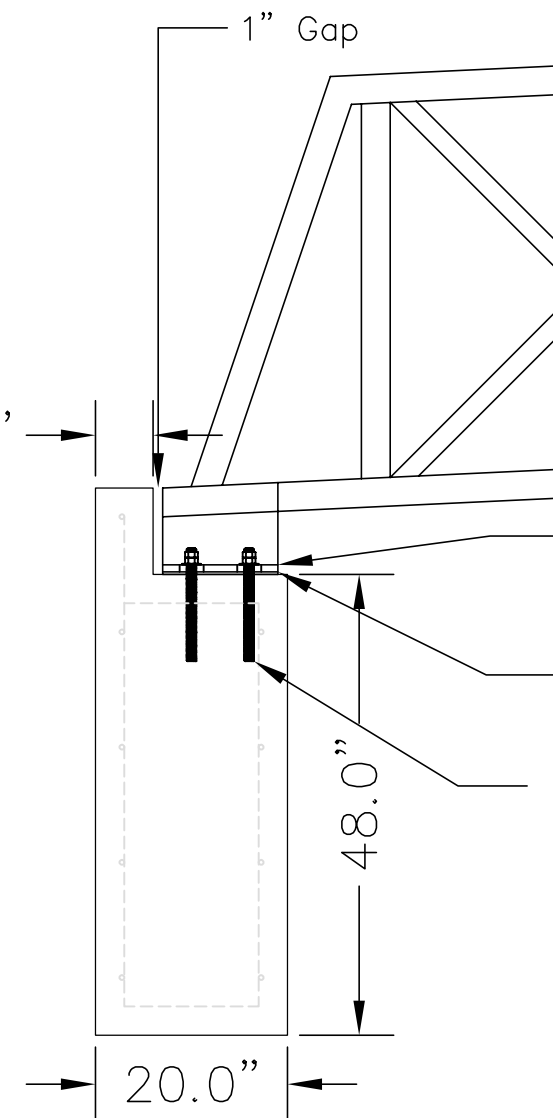
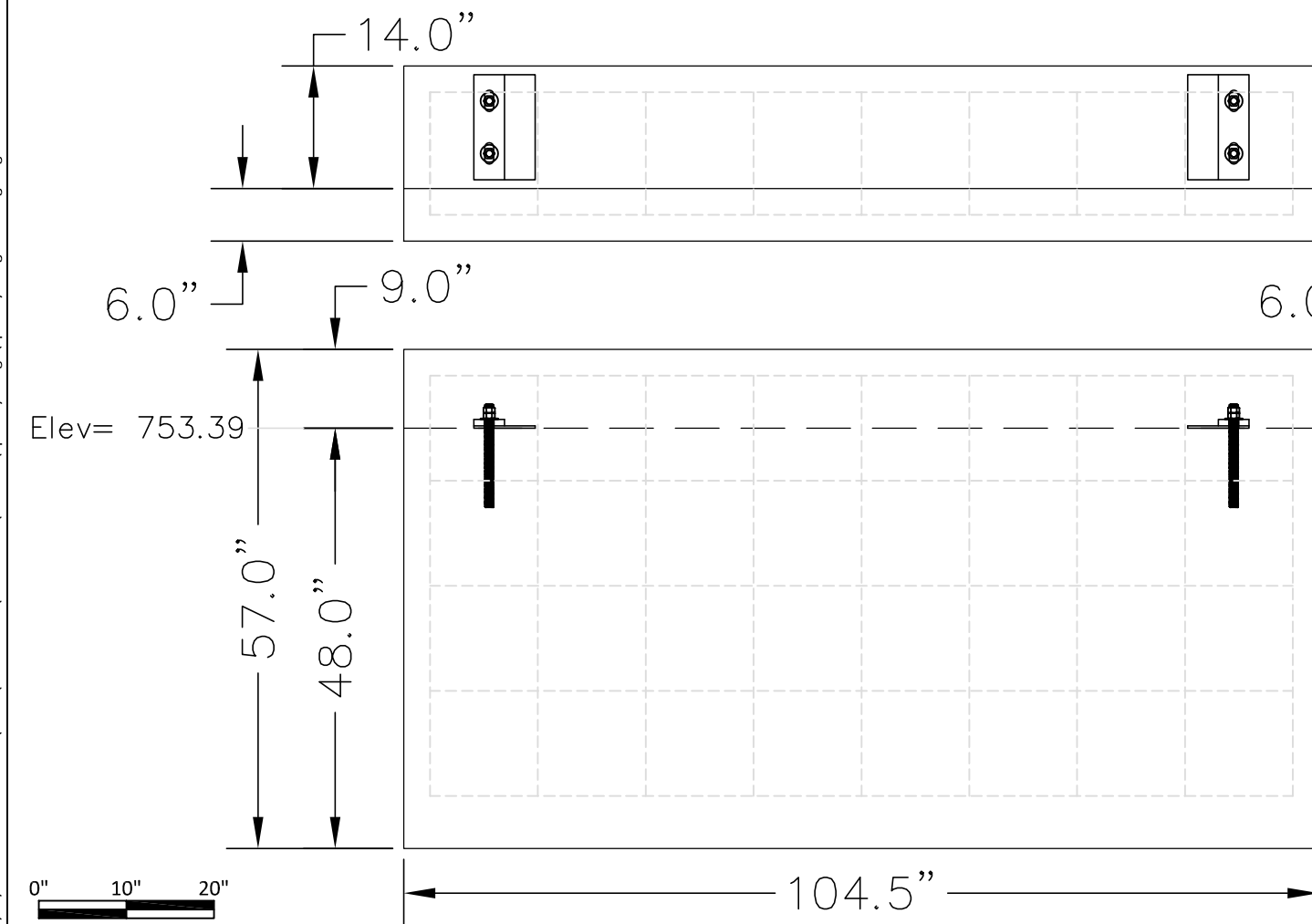
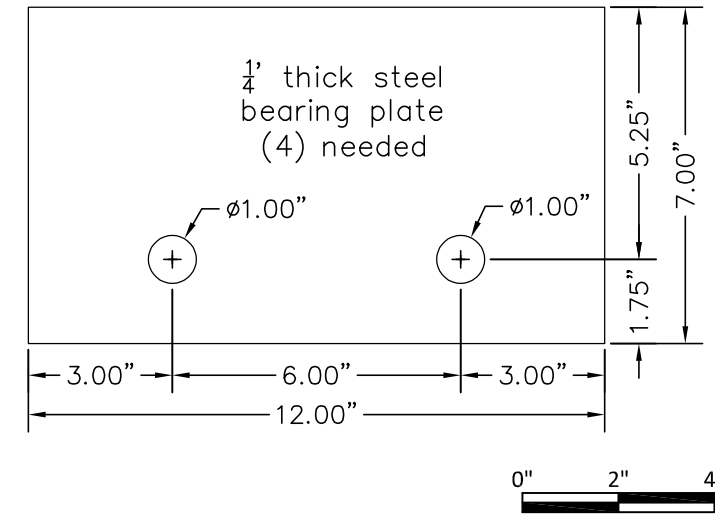
LAKE KEOMAH



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1" Gap

$\frac{3}{4}$ " bridge plate with slotted holes. Apply grease between plates.

7"x12"x $\frac{1}{4}$ " bearing plate with 1" dia holes. See detail this sheet.

(2) $\frac{3}{4}$ "x12" all-thread. Drill in place anchors w/ (2) nuts and (1) 2" O.D. washer ea. Set in Redhead C6+ adhesive. Bottom nut finger tight, top nut tight against bottom nut.

Reinforce with #4 rebar at 12" centers in all directions. Maintain 2" cover. 2.3 CY concrete per abutment.

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