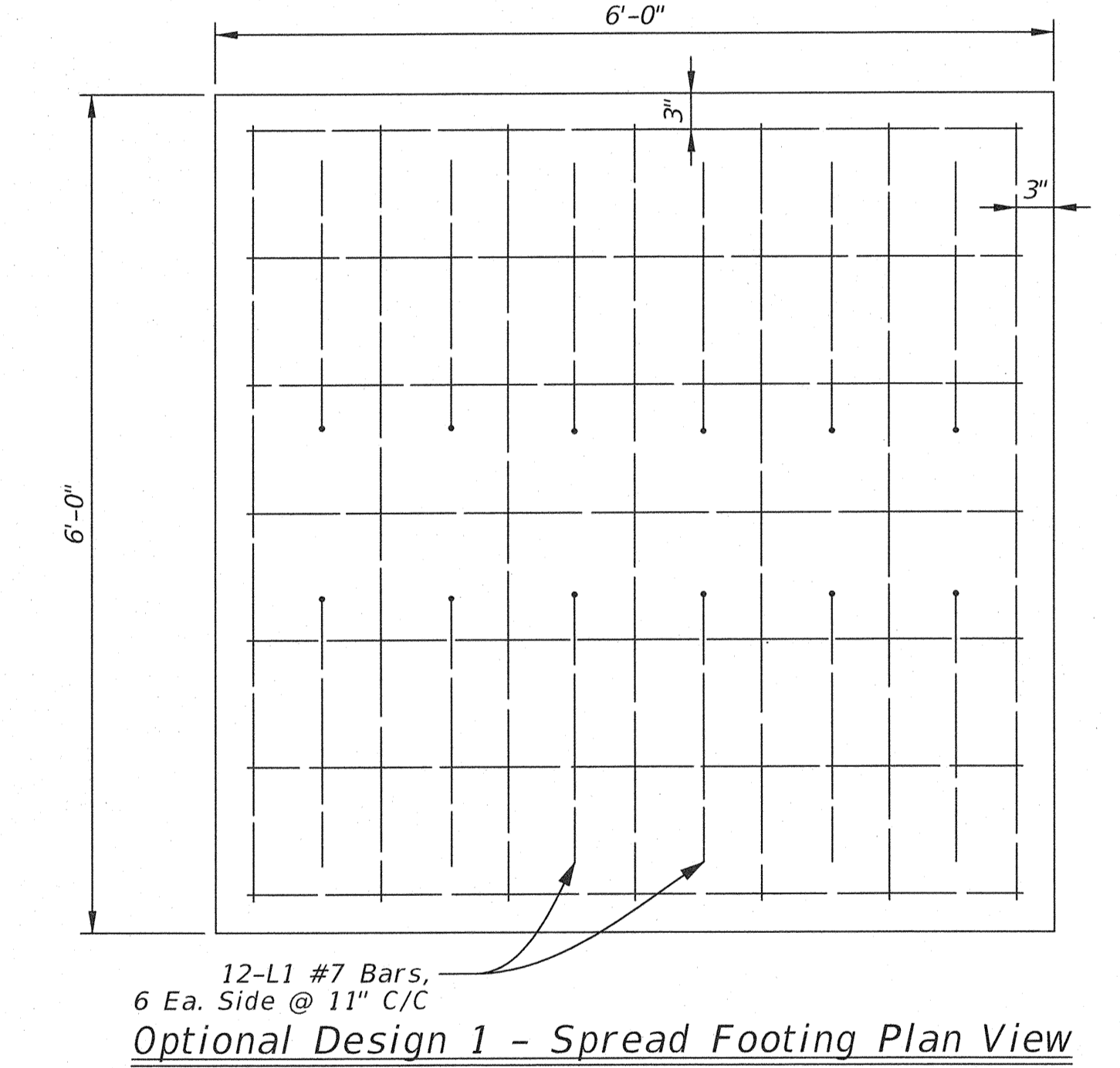
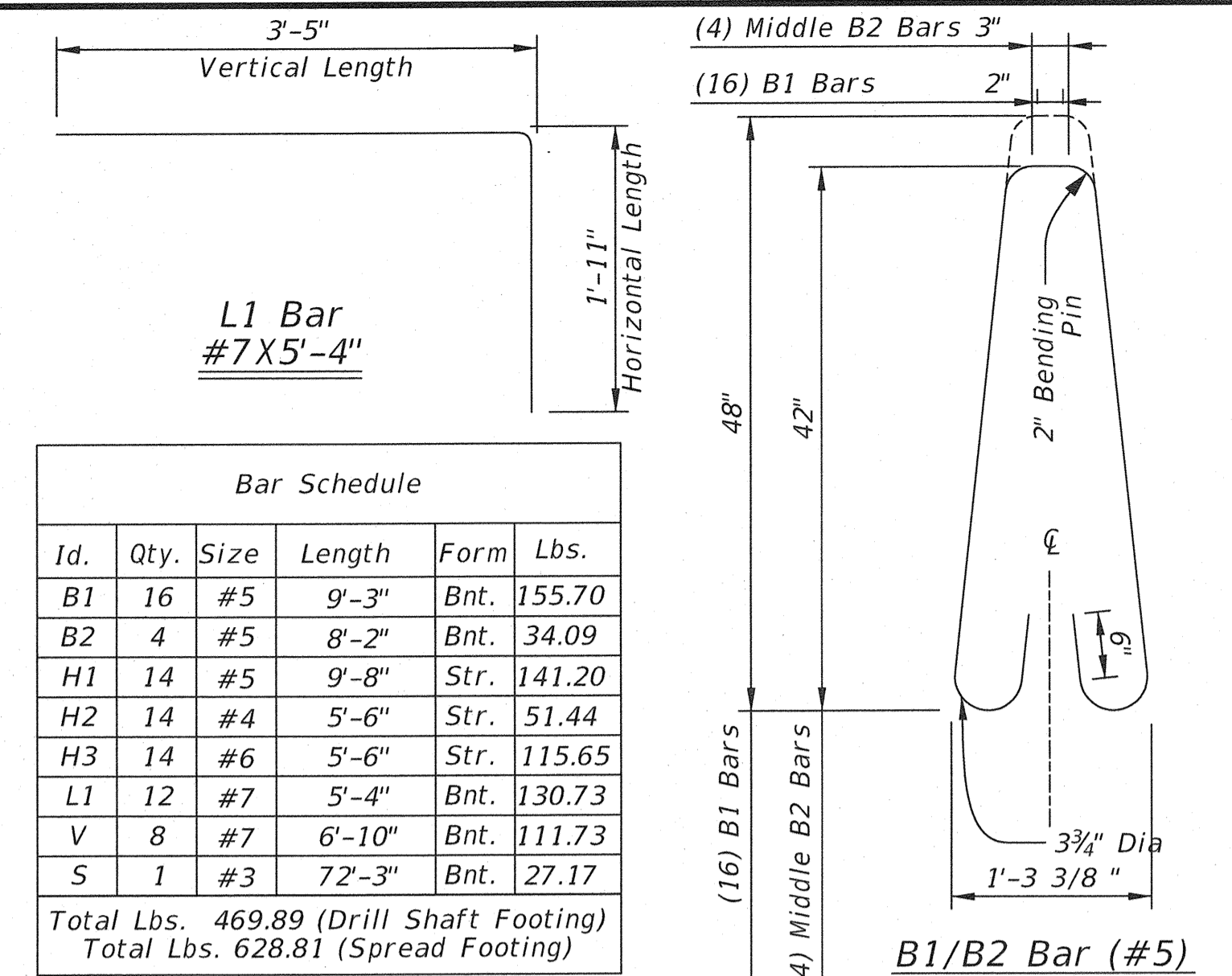
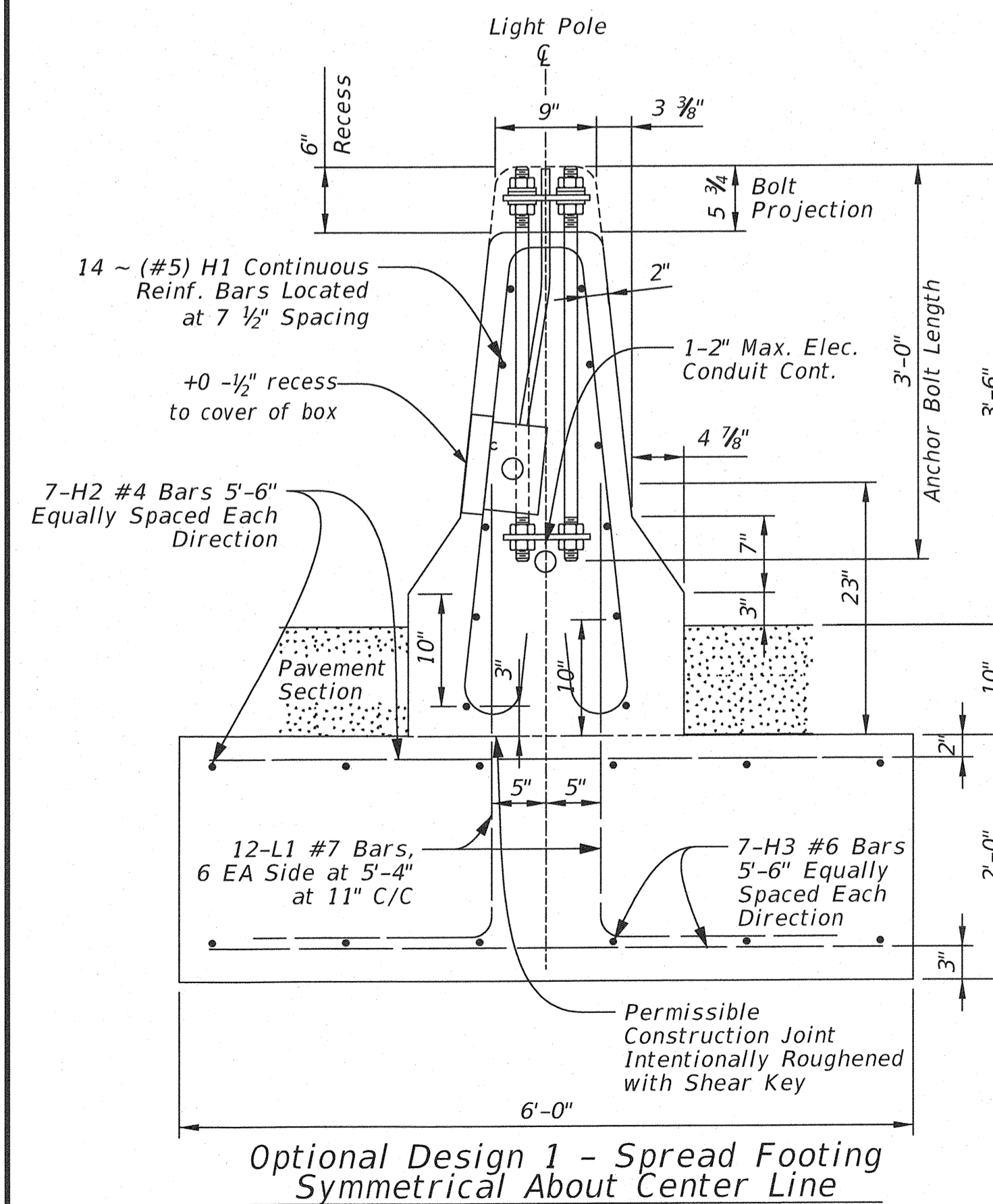
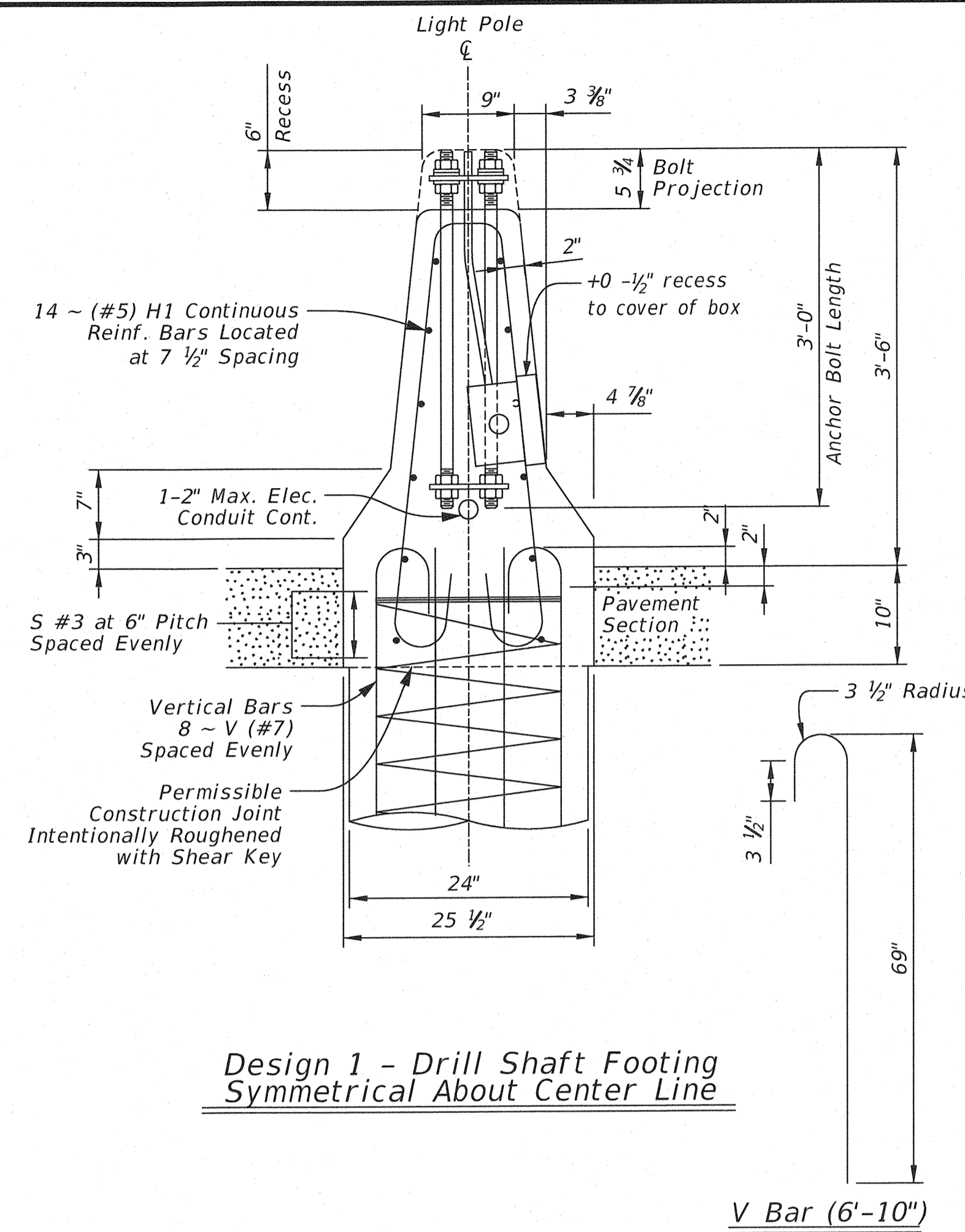
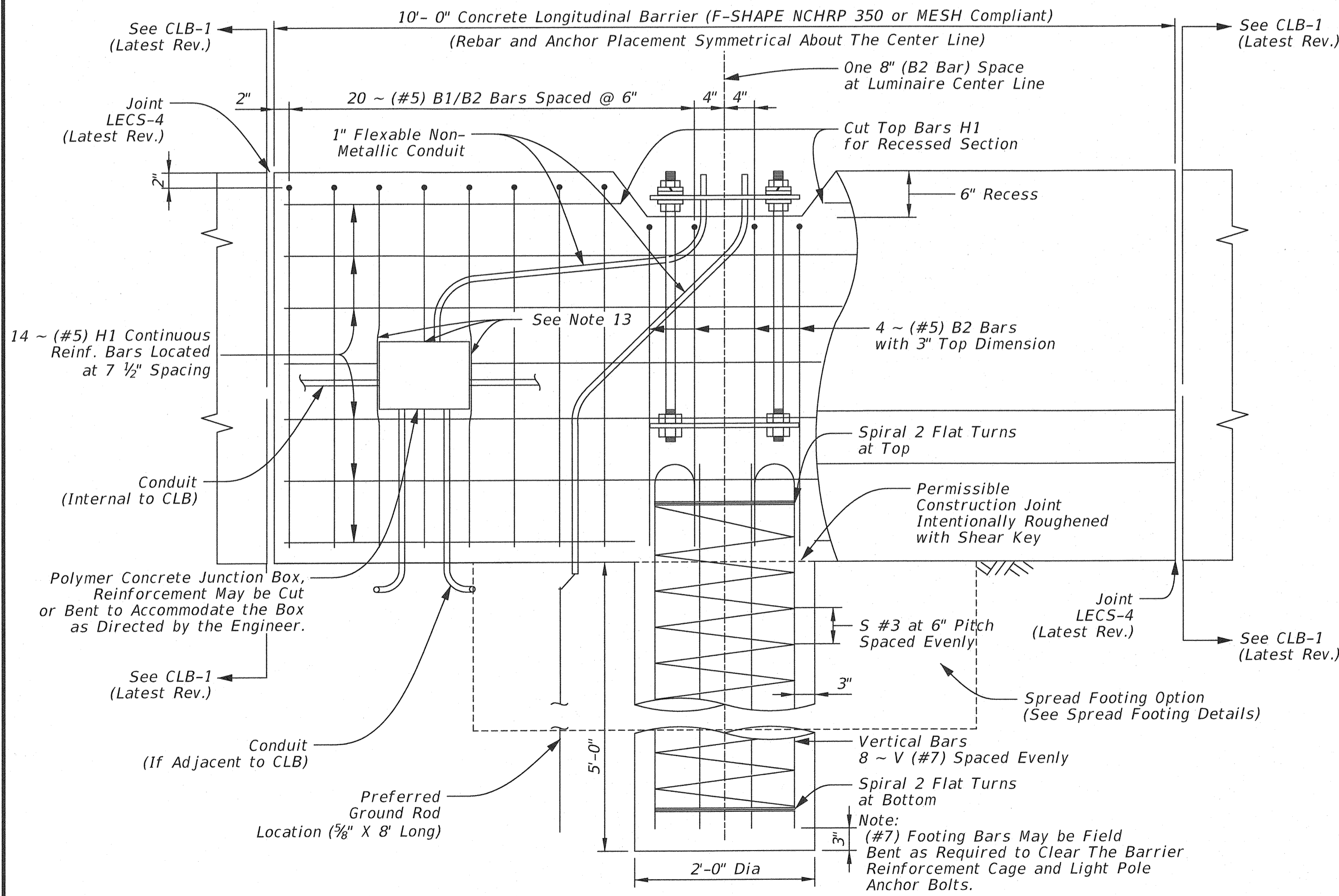
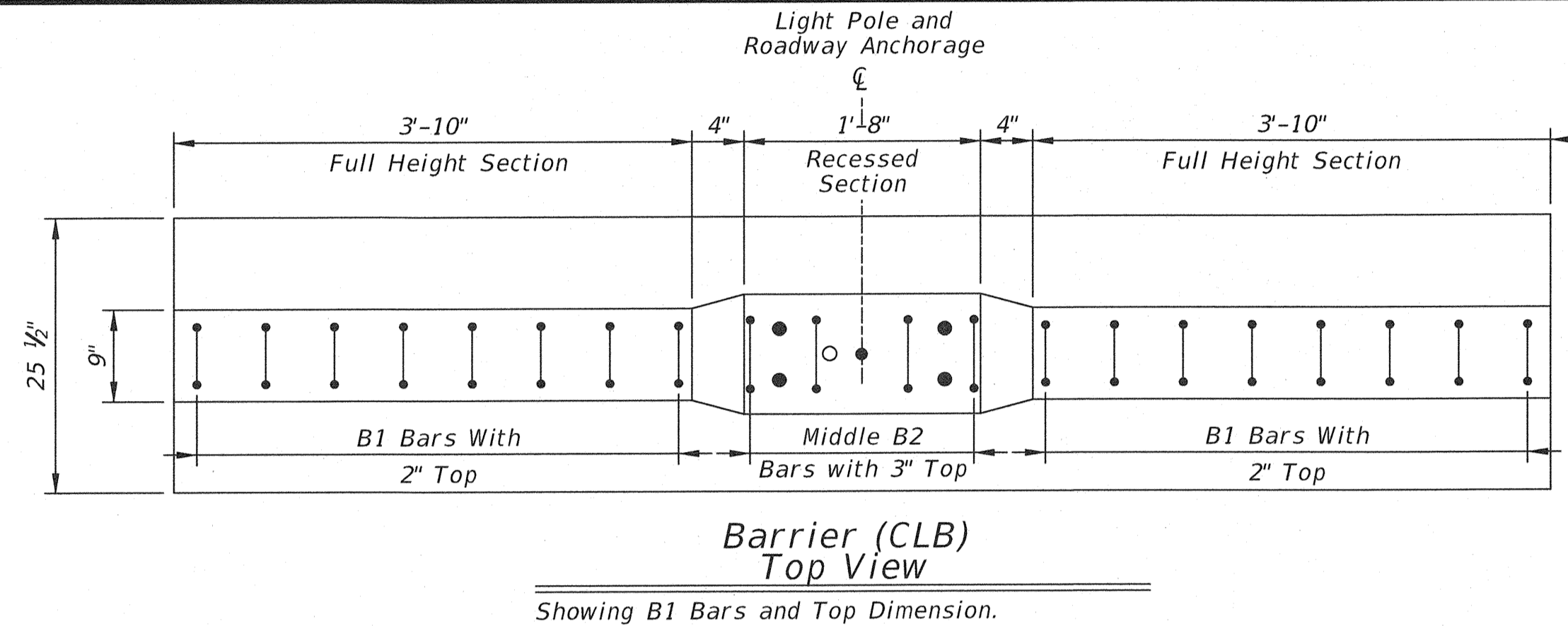


General Notes:

- Details for a drilled shaft footing and spread footing have been included. Construct a drilled shaft footing unless otherwise directed or field constraints/utilities prohibit construction and a spread footing is more desirable. All concrete shall be Class A. See Section 509 "Structural Concrete".
- Junction box(es), rigid metal conduit, and non-metallic flexible conduit, when required, shall not be paid for directly, but will be considered subsidiary to the various items of work.
- For luminaire base plate and anchor bolt material specifications and general notes, see Standards HLBPI-1, GMF1-1, and Roadway Standard LECS-4 (Latest Revision).
- Junction box shall be polymer concrete that is externally flanged. The box shall be 12" X 8" X 6" minimum. Ground poles to the rebar footing cage and 3/8" diameter X 8' copper-clad steel ground rod with #4 AWG bare conductor as detailed.
- Install No. 10 AWG or No. 12 AWG stranded conductors from the load side of the fused breakaway connector to the luminaire terminal block. Fused breakaway connectors are required. Install fused breakaway connectors in the pole's handhole. See Standard TEWD1-1 (Latest Revision).
- A template shall be provided to fix the location of the anchor bolts and conduits that project out of the concrete footing and protect during slip-form construction.
- Concrete Longitudinal Barrier (CLB) - See Roadway Standard CLB-1 (Latest Revision) for more information.
- Some footings may require more than the 2 conduits specified, see the plans for locations.
- For information on installation of underground/trenched conduit, see Standard CCD1-1 (Latest Revision).
- The contractor shall protect the anchor bolt threads from accumulations of concrete and shall prevent the entry of concrete into the conduit system.
- The contractor shall use the bubble leveling method to assure that the top of the light pole footings are level when being constructed. This is to avoid the use of shims when installing the light poles on the footings.
- Anchor bolts, templates, anchor bolt hardware, ground rod, and grounding conductor shall not be paid for directly, but will be considered subsidiary to the various items of work under Section 804, "Concrete Footings" for either a drilled shaft footing or spread footing.
- Mount the junction box flush (+0", -1/2") with concrete surface of concrete barrier. Cut and bend bars to fit J-Box securely inside of the reinforcement. J-Box can be secured to the bent vertical bars with conduit clamps or similar strapping material to prevent J-Box from moving during the pouring of the concrete rail.



Quantities

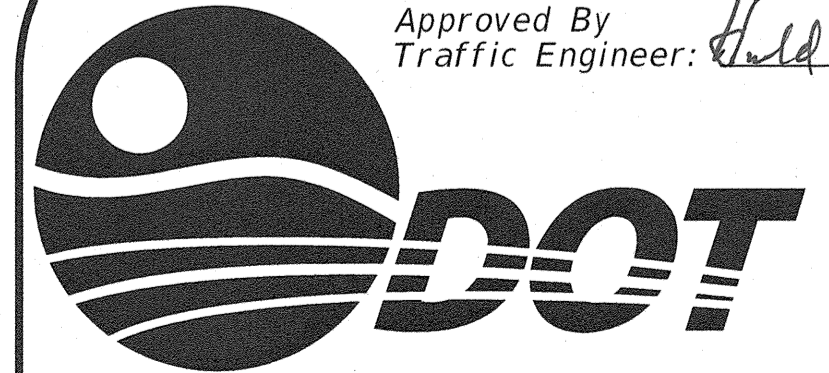
Basis of Payment		
Item No.	Item	Unit
804(A)	Structural Concrete	CY
804(B)	Reinforcing Steel	LBS

Drill Shaft Footing - Design 1
Structural Concrete = 2.81 CY*
Reinforcing Steel = 470 LBS
* - Includes CLB Barrier

Spread Footing - Optional Design 1
Structural Concrete = 4.89 CY*
Reinforcing Steel = 629 LBS
* - Includes CLB Barrier

Approved By Bridge Engineer: *[Signature]* Date: 3-24-16

Approved By Traffic Engineer: *[Signature]* Date: 3/14/2016



**Traffic Standard
Safety Barrier Light
Pole Footing Details
(Design No. 1)**

2009 Specifications

BMF1-2	00
T-305	