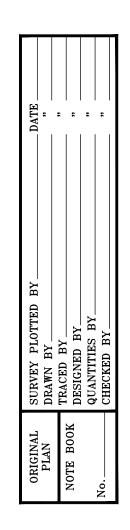
<u>HI(</u>	GHW4	AY LIGHTING FOUNDATION GENERAL NOTES:					
1.	Design Specifications:						
	А.	American Association of State Highway and Transportation Officials (AASHTO) 2020 LRFD Bridge Design Specifications, 9th Edition, as amended by Hawaii Department of Transportation (HDOT) document de August 8, 2014 with subject title "Design Criteria for Bridges and Structures" and HDOT memorandum dated January 8, 2018 with subject title "Changes to Design Criteria for Bridges and Structures".					
	В.	Design shall conform with the AASHTO LRFD Specifications for Stru Supports for Highway Signs, Luminaires, and Traffic Signals, First Edition 2015 with 2020 Interim Revisions.					
2.	Loads:						
	А.	Basic Wind Speed: 145 mph.					
	В.	Recurrence Interval of 1700 years.					
	С.	Fatigue importance factor, I _f , shall be based on Fatigue Category I f cantilevered highway lighting structures.					
	D.	Vortex shedding induced loads shall be considered for cantilevered n arms and pole shafts that do not have tapers or have tapers of less 0.14 in/ft.					
	Ε.	Highway lighting structures shall be designed for a truck induced go based on a truck speed of 20 mph over the posted speed.					
	F.	Galloping and natural wind gusts shall be considered for cantilevered highway lighting structures.					
	G.	Natural Wind Gusts shall be considered for all highway lighting strue					
3.	Mai	terials:					
	А.	Concrete for highway lighting foundation shall develop a minimum 28- compressive strength of 4,500 psi with a maximum w/c ratio of 0.45					
	В.	All concrete shall contain corrosion inhibitor. Dosage shall be as recommended by the manufacturer.					
	С.	All reinforcing steel shall be ASTM A615 Grade 60 deformed bars un otherwise noted.					
	D.	All connection bolts shall be AASHTO M164 bolts and anchor bolts sha AASHTO M314-105 bolt.					
	Ε.	Aluminum members and surfaces in contact with structural steel sha isolated with neoprene material as approved by the Engineer.					
4.	Ger	neral:					
	А.	The recommendations of the light pole manufacturer shall be followed Manufacturer shall select pole, anchor bolts, etc. based on criteria gi the contract documents. The Contractor shall submit catalog cuts an calculations to the Engineer for approval.					
	В.	The Contractor shall use templates while installing the anchor bolts. Anchor bolts shall be vertical.					



- 4. <u>General (Cont.):</u>
 - C. The Contractor shall adjust the spiral vertical spacing to allow of anchor bolts and plates.
 - D. Drilled shaft diameters were determined based on assumed pol with parameters such as the bolt circles and base plate diame Contractor is responsible for verifying that the drilled shaft d shown on this sheet, are compatible with the manufacturer's pr designs. If it is found incompatible, alternate pole designs are recommended. Otherwise, the contractor is responsible for alter shaft designs, and is required to submit alternate drilled shaf the Engineer for approval. The shafts shall not be installed un and shaft designs have been finalized and verified for their c
- 5. <u>Geotechnical Notes:</u>
 - A. Design Loads: i. Max. Moment = 21.8 ^{k-ft.}

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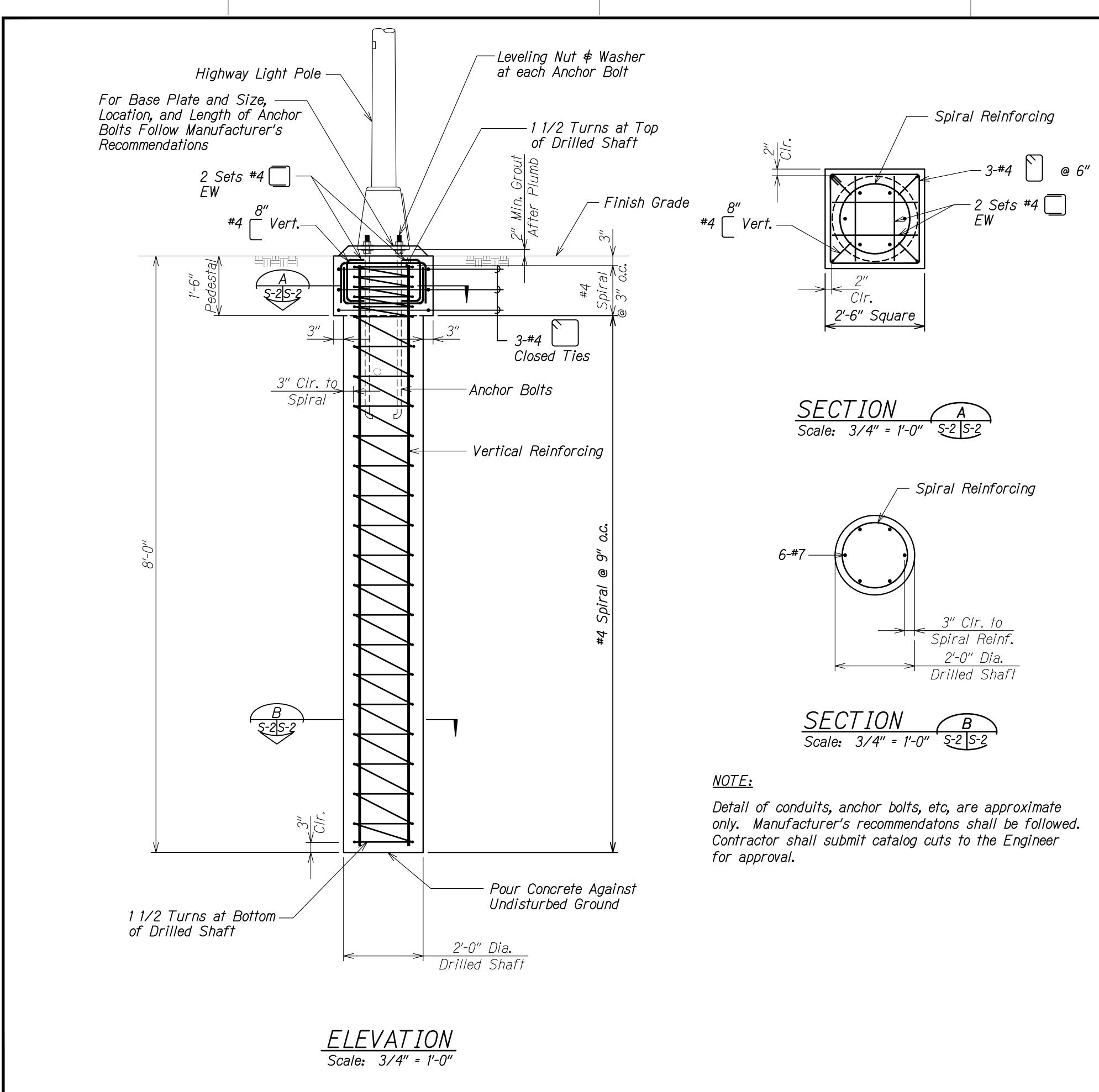
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PROFESSIONAL ★ ENGINEER	DRILLED SHAFT FOUNDATION
NO. 9444-5 Y.	FOR LIGHT POLE
MAII, U.S.	FORT BARRETTE ROAD
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	RAILROAD CROSSING & LIGHTING IMPROVEMENTS
AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.	<u>Roosevelt Avenue to Farrington Highway</u> <u>Federal-Aid Proiect No. HSIP-RR-0901(017)</u>
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THIS WORK WAS PREPARED BY MO 9444-S MO 9444-S MO 9444-S MO 9444-S ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DRILLED SHAFT FOUNDATION FOR LIGHT POLE FORT BARRETTE ROAD RAILROAD CROSSING & LIGHTING IMPROVEMENTS Roosevelt Avenue to Farrington Highway Federal-Aid Project No. HSIP-RR-0901(017) Scale: As Noted Date: June 2023
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