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CONSTRUCTION NOTES FOR WORK WITHIN CITY RIGHT-OF-WAY

- All applicable construction work shall be done in accordance with the 6. Confined Space Standard Specifications for Public Works Construction, September 1986 and Standard Details for Public Works Construction, September 1984, as amended, of the Department of Public Works, City and County of Honolulu and the Counties of Kauai, Maui and Hawaii.
- 2. The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
- 3. No Contractor shall perform any construction operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow into existing City drainage systems, adjoining properties, streets, or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make any remedial actions necessary.
- 4. The General Contractor/Developer/Owner of the project shall be responsible for conformance with applicable provisions of the Hawaii Administrative Rules, Title 11, Chapter 54, "Water Quality Standards," and Title 11, Chapter 55, "Water Pollution Control", as well as Chapter 18A of the Revised Ordinances of Honolulu, as amended. Best Management Practices shall be employed at all times during construction.

The General Contractor/Developer/Owner of the project shall obtain National Pollutant Discharge Elimination System (NPDES) Permit coverage(s) for the following:

- A. Storm water discharges associated with construction activities that disturb one (1) acre or more, and
- B. Discharges of hydrotesting effluent, dewatering effluent, and well drilling effluent to State waters.

In accordance with State law, all discharges related to project construction or operations are required to comply with State Water Quality Standards (Hawaii Administrative Rules, Chapter 11-54). Best Management Practices shall be used to minimize or prevent the discharge of sediment, debris, and other pollutants to State waters. Permit coverage is available from the Department of Health, Clean Water Branch at http://health.hawaii.gov/cwb. The Owner/Developer/ Contractor is responsible for obtaining other Federal, State, or local authorizations as required by law.

For non-City projects, the Contractor shall notify the Civil Engineering Branch, D.P.P. at 768-8084 to arrange for inspectional services and submit two (2) sets of approved Construction Plans seven (7) days prior to commencement of construction work. For City projects, the Contractor shall coordinate inspectional services with the responsible City agency.

For entry by City personnel, including inspectors, into a permit required confined space as defined in 29 CFR Part 1910.146(b), the Contractor shall be responsible for providing:

- A. All safety equipment required by the confined space regulations applicable to all parties other than the construction industry, to include, but not limited to, the following:
 - (1) Full body harnesses for up to two personnel.
 - (2) Lifeline and associated clips.
 - (3) Ingress/egress and fall protection equipment.
 - (4) Two-way radios (walkie-talkies) if out of line-of-sight.
 - (5) Emergency (escape) respirator (10 minute duration).
 - (6) Cellular telephone to call for emergency assistance.
 - (7) Continuous gas detector (calibrated) to measure oxygen, hydrogen sulfide, carbon monoxide and flammables (capable of monitoring at a distance of least 20-feet away.)
 - (8) Personal multi-gas detector to be carried by inspector.
- B. Continuous forced air ventilation adequate to provide safe entry conditions.
- C. One attendant/rescue personnel topside (two, if conditions warrant
- 8. Pursuant to Chapter 6E, HRS, in the event any artifacts or human remains are uncovered during construction operations, the Contractor shall immediately suspend work and notify the Honolulu Police Department, and the State Department of Land and Natural Resources-Historic Preservation Division (692-8015). In addition, for non-City projects, the Contractor shall inform the Civil Engineering Branch, Department of Planning and Permitting (768-8084); and for City projects, notify the responsible City agency.
- 9. For projects abutting State Highways' rights-of way, the Owner or his authorized representative shall notify the State Department of Transportation, Highways Division, Oahu District, Drainage Discharge Unit at 831-6793 for an assessment of State Highways permit requirements.
- 10. For Bench Mark, see Sheet 13.

APPROVALS:

FED. ROAD

HAWAII HAW.

PROJ. NO.

61D-01-23

2024 ADD. 4 87

CHIEF, CIVIL ENGINEERING BRANCH, D.P.P.

LICENSED

THIS WORK WAS PREPARED BY

ME OR UNDER MY SUPERVISION

CONSTRUCTION OF THIS PROJECT

WILL BE UNDER MY OBSERVATION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

GENERAL NOTES \$ LEGEND - 2


KAILUA ROAD INTERSECTION IMPROVEMENTS Vicinity of Uluoa Street and Ulumanu Drive Project No. 61D-01-23


Date: DEC, 2023 SHEETS

Added CC&H Approval Block REVISION


Revised Note 4; Removed Note 6;

SHEET No.





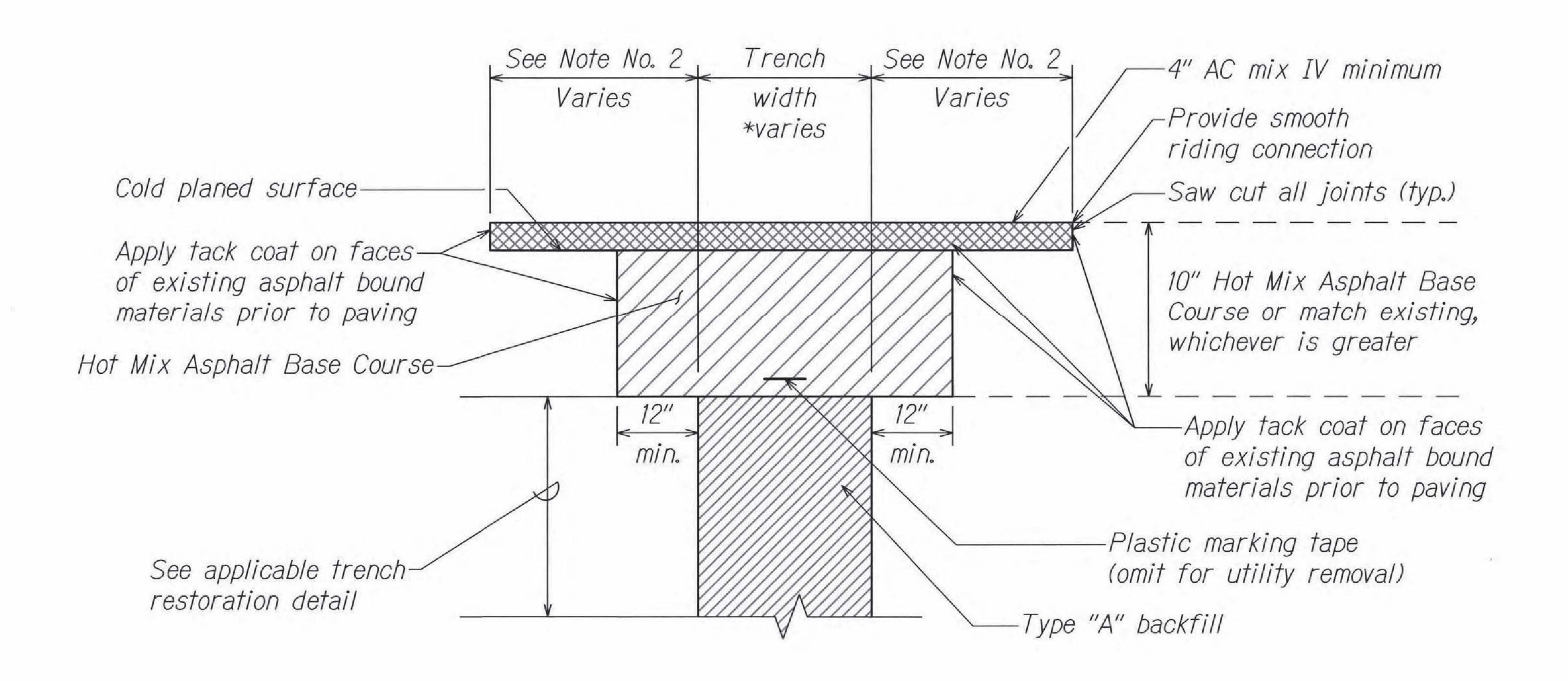
SHEETS



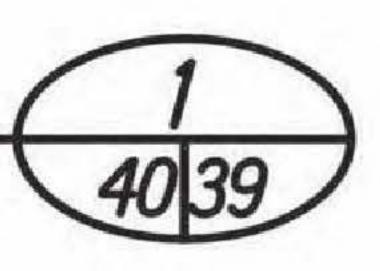
SHEETS

- Tack coat faces of existing asphalt bound materials prior to filling excavation with new asphalt bound materials.
- 2. For trench restoration on State-owned Right of Way:
 - a. If the trench is aligned perpendicular to the direction of travel or skewed at angles of 45 degrees or greater to longitudinal direction of the roadway, repave 6 feet on each side of the trench.
 - b. If the trench is aligned parallel to the direction of travel or skewed at angle of less than 45 degrees to the longitudinal direction of roadway, repave to the edge of lane in which edge of trench is located. Repave to the edge of gutter if less than 2-ft from the edge of trench to the edge of gutter.
- 3. All work performed shall be subject to inspection by the State and shall be to the State's satisfaction.
- Construct the trench restoration in accordance with the Hawaii Standard Specifications for Road and Bridge Construction (2005) and its Special Provisions, and the Specification of Installation of Miscellaneous Improvements within State Highways.
- 5. Pavement Smoothness for HDOT roadways Applicable to areas where the trench activities require shoring, sheet piling and dewatering or as directed by the District Engineer.
 - a. Obtain a profile of the existing roadway that is to have a new surface as a result of the restoration of the trench excavation and submit the profile to the District Engineer before any work for trench excavation begins.
 - b. Obtain a profile of the roadway surface after the roadway surface has been repaved and submit the profile to the District Engineer. The profile of the roadway surface after repaving shall be equal to or smoother than the profile obtained before trench excavation began.
 - c. The distance from the paved surface to the testing edge of a ten-foot long straight edge between two points of contact shall not exceed 3/16 inch.
- Place all unbound materials in the trench as follows:
 - a. Compaction by water jetting or ponding is not permitted.
 - b. All unbound materials, except the permeable base and ASTM C-33 Size 67:
 - Place material in accordance with Sections 204, 206, 603, 624 and 625 of the Hawaii Standard Specifications for Road and Bridge Construction (2005).
 - Take one compaction test per lift for 300 lineal feet of trench. Submit compaction test results to the District Engineer.
 - c. Permeable Base
 - Place permeable material in uniform horizontal layer not exceeding 9 inches in compacted thickness.
 - Compact each layer with 8 passes of a vibrating plate compactor. Use hand tamper if trench is too narrow to accommodate the vibrating plate compactor.
 - If an existing layer of permeable base is encountered, provide new permeable base to match the existing permeable base thickness and depth and provide a geotextile permeable separator.
 - d. ASTM C-33 Size 67:
 - Material placed under water need not be compacted.
 - Material placed above water:

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL	SHEET NO.	TOTAL
HAWAII	HAW.	61D-01-23	2024	ADD.39	87



TYPICAL TRENCH PAVEMENT SECTION (STATE/CITY) Not to Scale



APPROVED:

1/11/24 🔼 Revised Detail Name REVISION

> STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

PAVING NOTES \$ DETAILS

KAILUA ROAD INTERSECTION IMPROVEMENTS Vicinity of Uluoa Street and Ulumanu Drive Project No. 61D-01-23

ME OR UNDER MY SUPERVISION.


CONSTRUCTION OF THIS PROJECT

WILL BE UNDER MY OBSERVATION

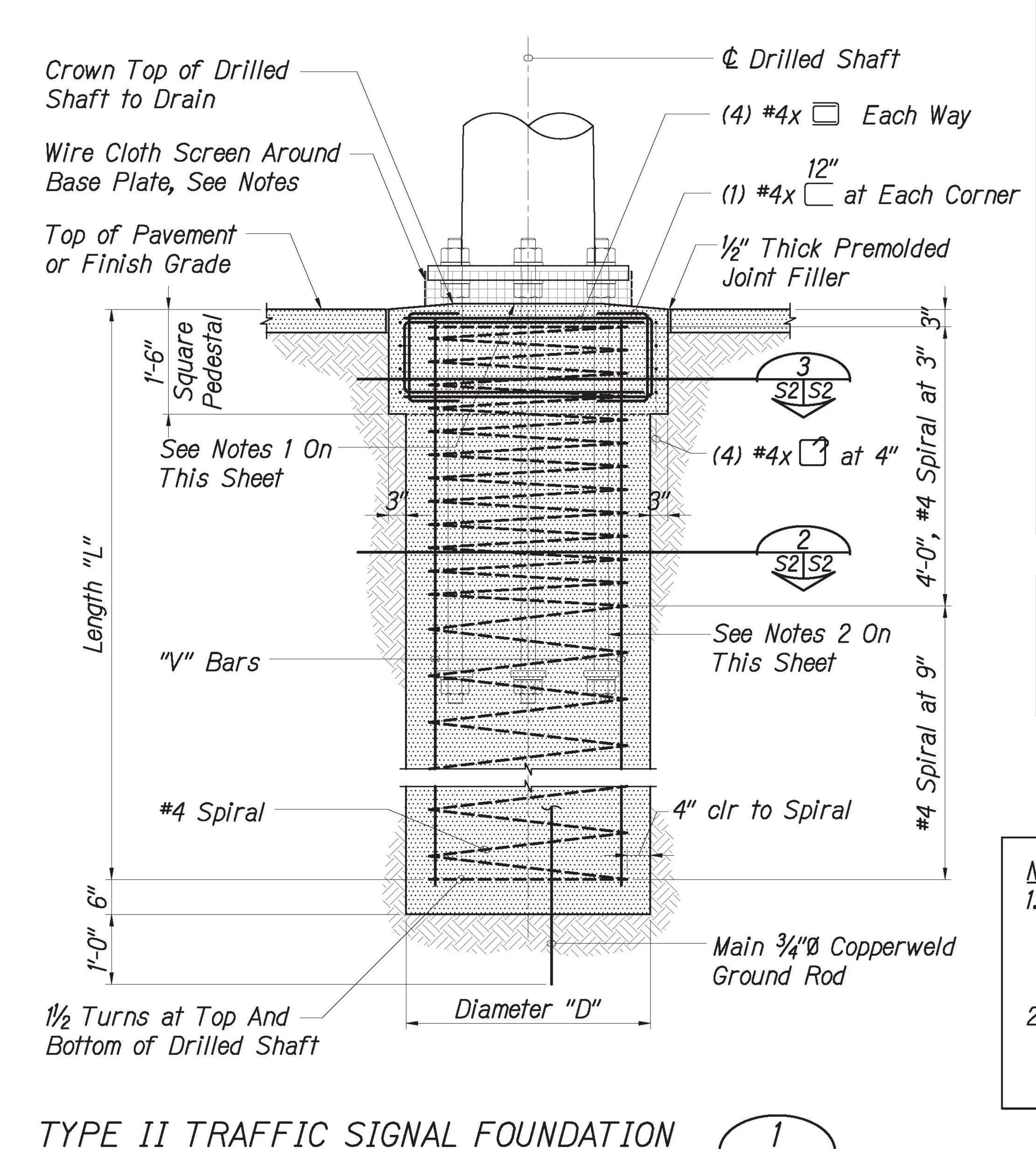
Date: DEC, 2023

No.

SHEETS



Scale: 3/4" = 1'-0"



Construction Tolerance Note:

Anchor Bolts Shall be Installed With Misalignments of Less Than 1:40 From Vertical. After Installation, Firm Contact Shall Exist Between The Anchor Bolt Nuts, Washers, And Base Place On Any Anchor Bolt Installed In a Misaligned Position.

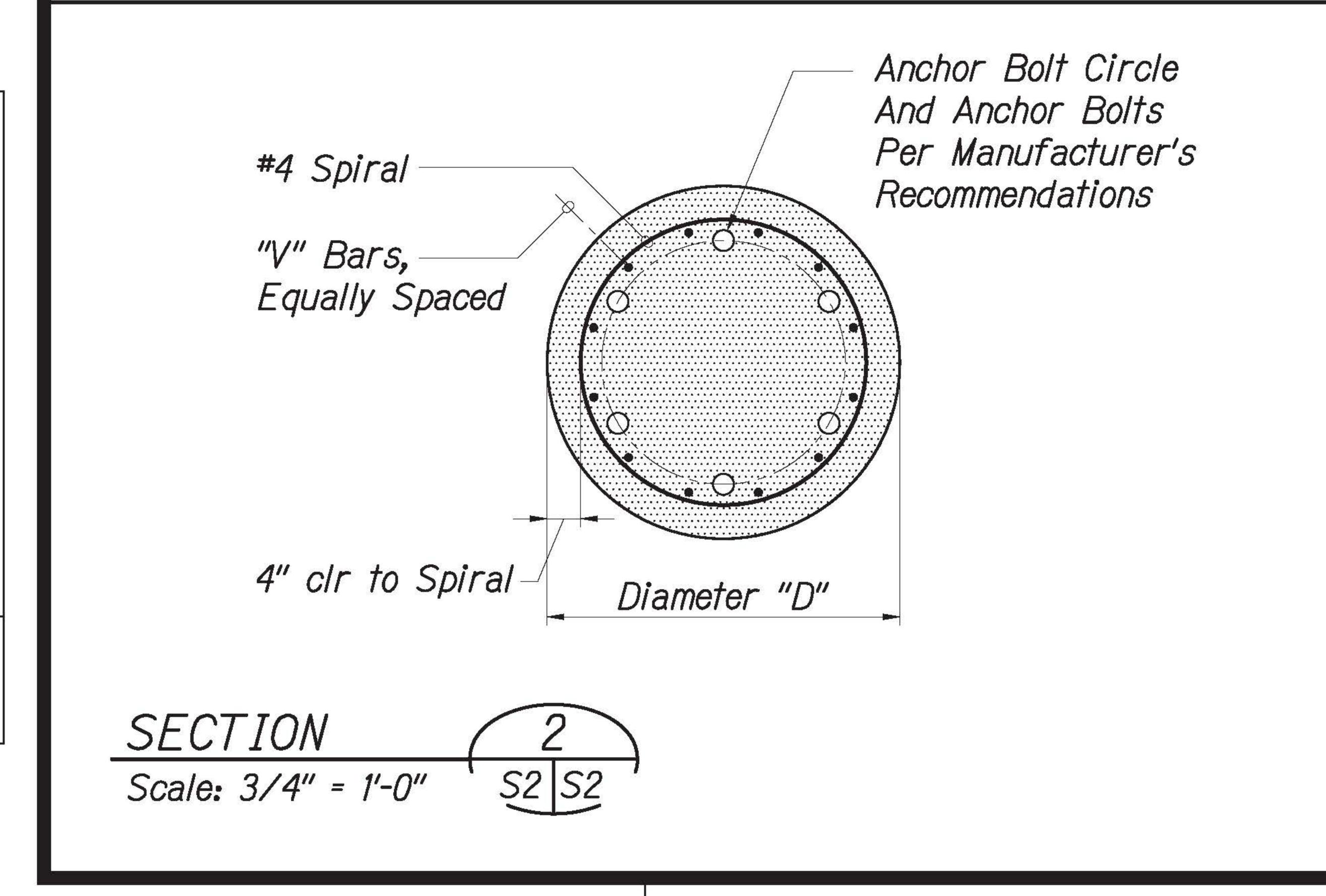
Wire Cloth Screen Notes:

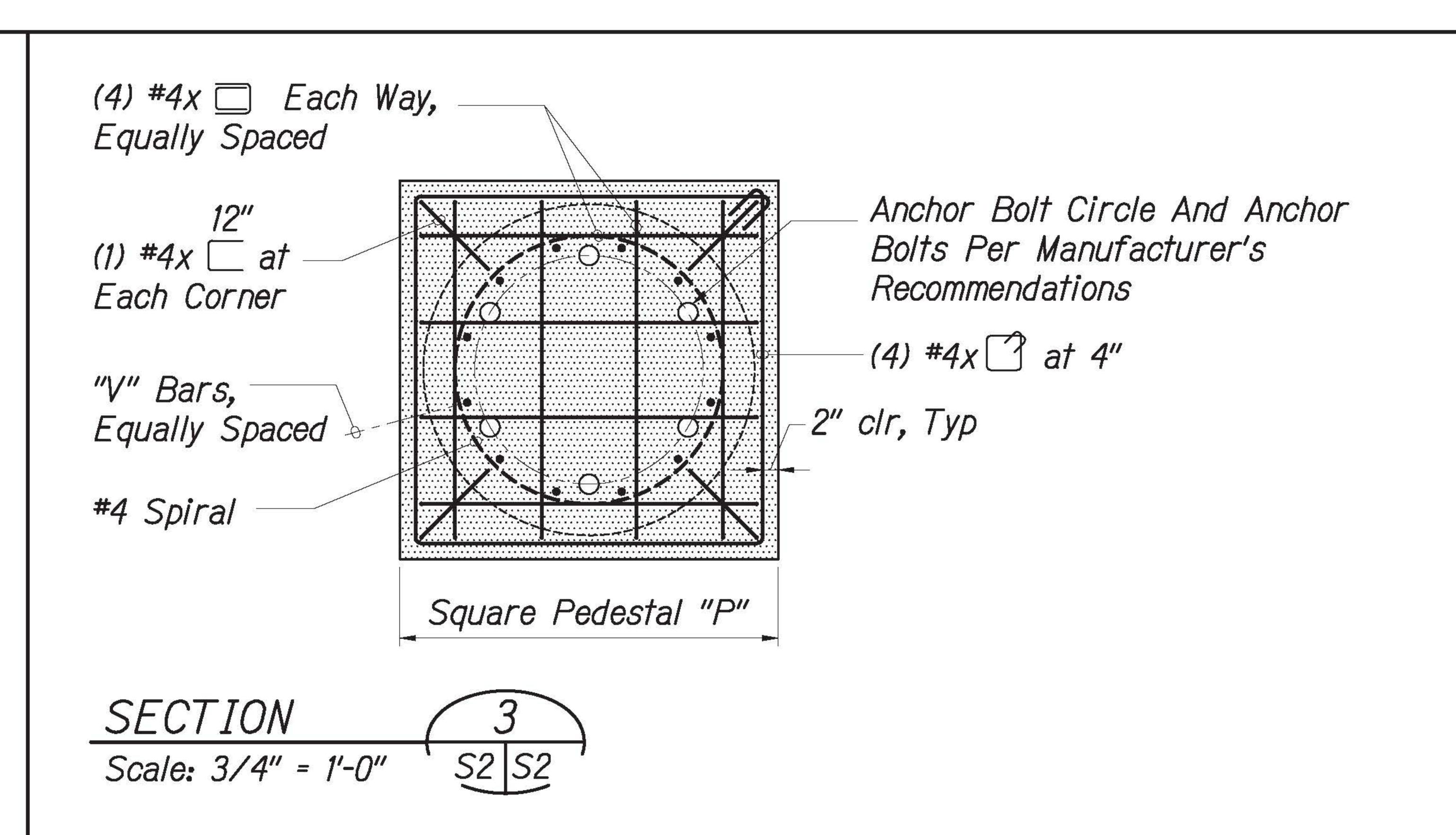
- a. A Wire Cloth Screen Shall be Placed Vertically Between The Base Plate And Top of Foundation.
- b. Wire Cloth Shall be Wrapped Horizontally Around The Base Plate With a 3" Minimum Lap.
- c. Wire Cloth Shall be Galvanized Steel, Standard Grade, Plain Weave, 2x2 Mesh, With 0.063" Diameter Wires.
- d. Screen Shall be Attached to The Base Plate With Stainless Steel Self-tapping 1/4" Diameter Screws With Stainless Steel Washers Spaced at 9".

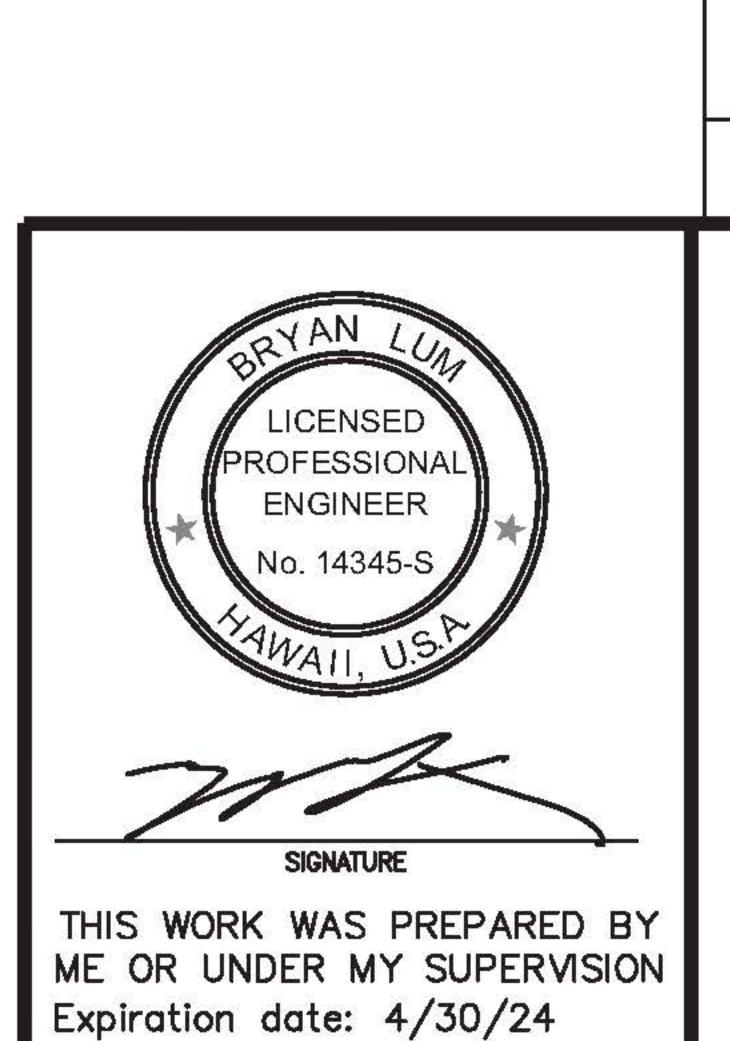
Drilled Shaft Foundation Schedule									
Pole Description	Mast Arm Length	Length "L"	Diameter "D"	Pedestal "P"	"V" Bars				
Type II	<u><</u> 30'-0"	12'-0"	3'-6"	4'-0"	(12) #8				

Notes.

- 7. The Exposed Length of The Anchor Bolt Between The Bottom of The Leveling Nut And The Top of The Drilled Shaft Shall Not Exceed The Anchor Bolt Diameter, Typ
- 2. For Base Plate, Bolt Circle Diameter, And Size, Location, Bolt Projection Length, And Length of Anchor Bolts, Follow Manufacturer's Recommendations







A Revised Foundation Schedule

OATE REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRILLED SHAFT FOUNDATION DETAILS

KAILUA ROAD INTERSECTION IMPROVEMENTS

Vicinity of Uluoa Street and Ulumanu Drive

Project No. 61D-01-23

Scale: As Shown

FED. ROAD STATE DIST. NO.

HAWAII HAW.


PROJ. NO.

61D-01-23

FISCAL SHEET TOTAL

2023 | ADD.66 | 87

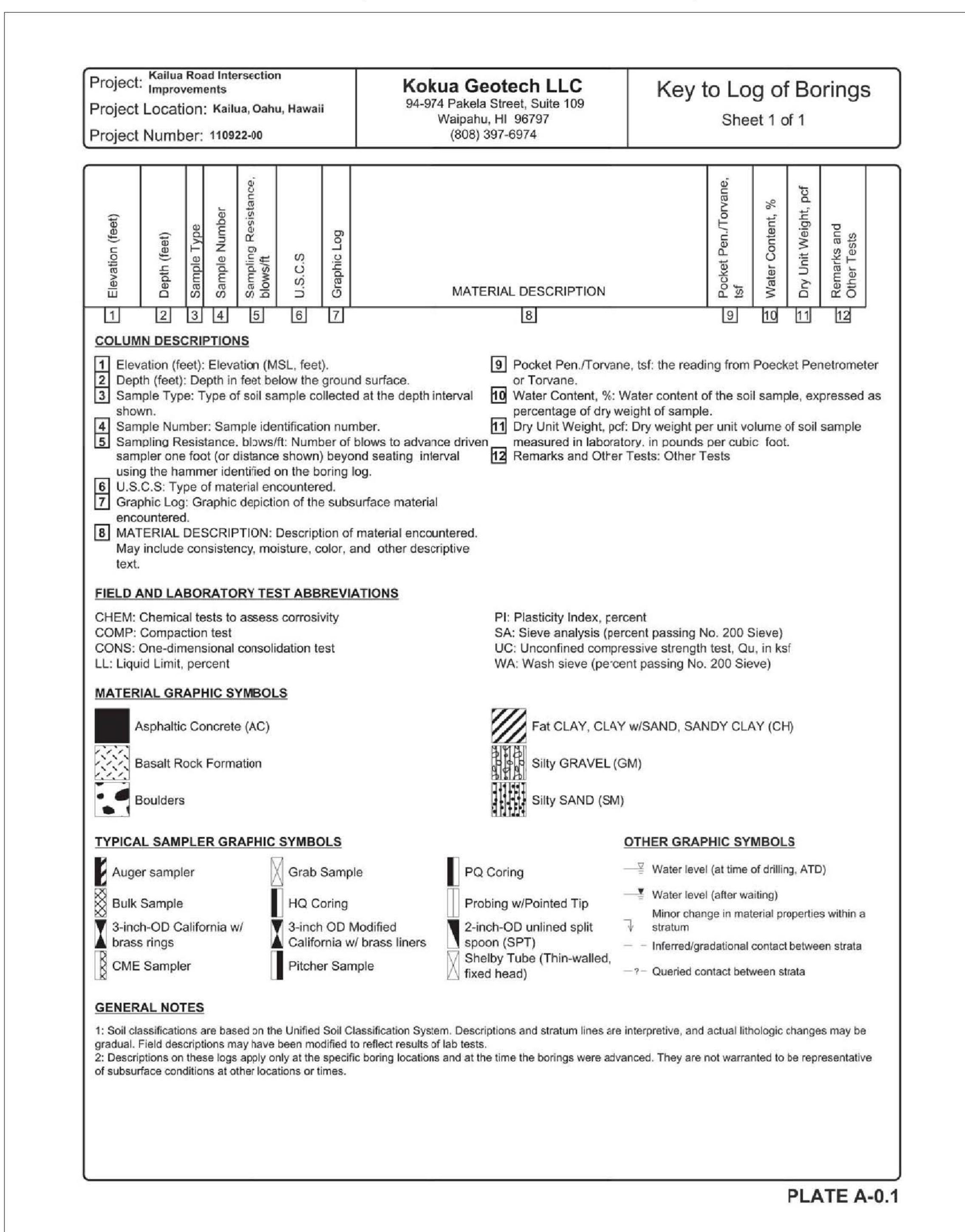
Date: DEC, 2023 SHEETS



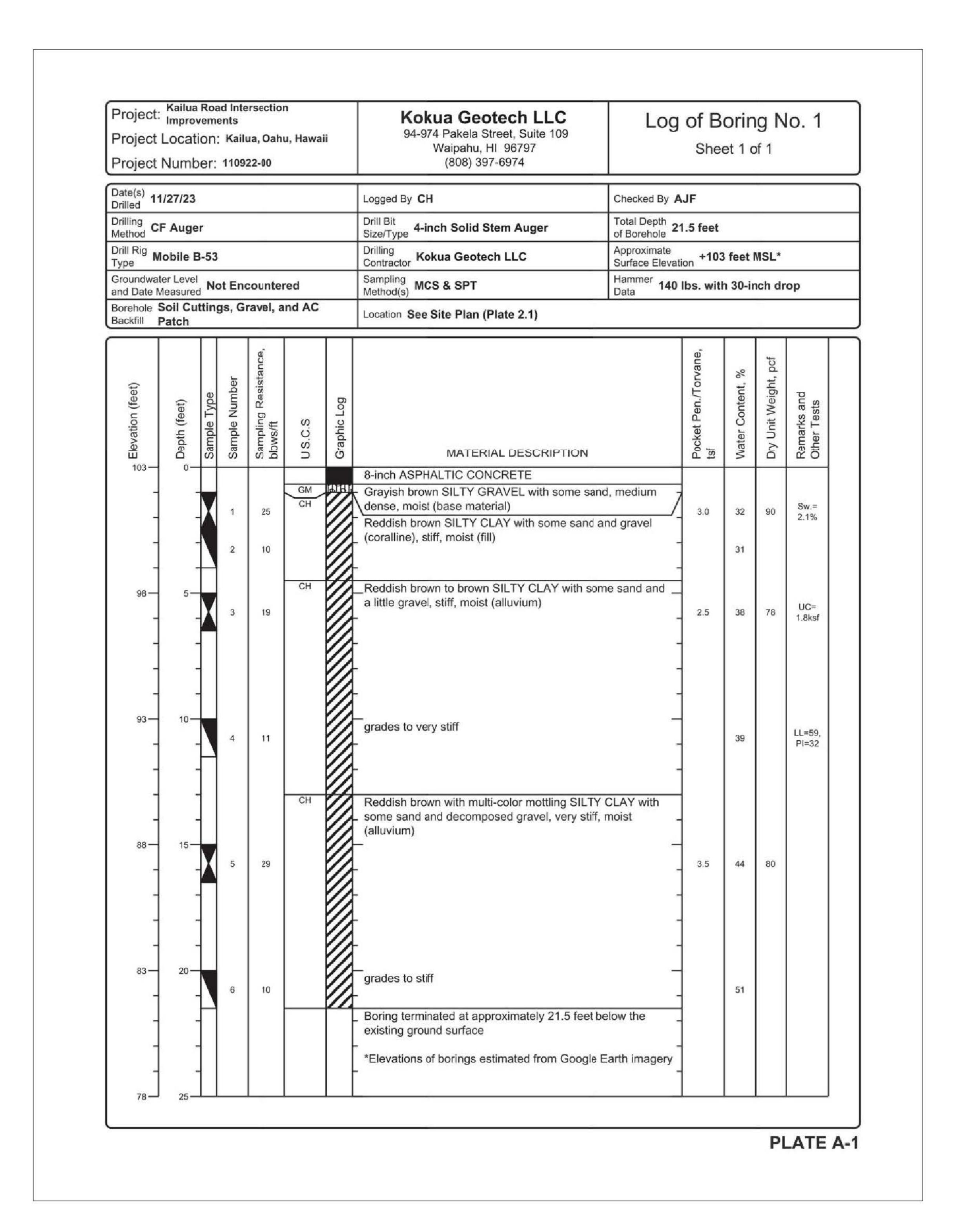
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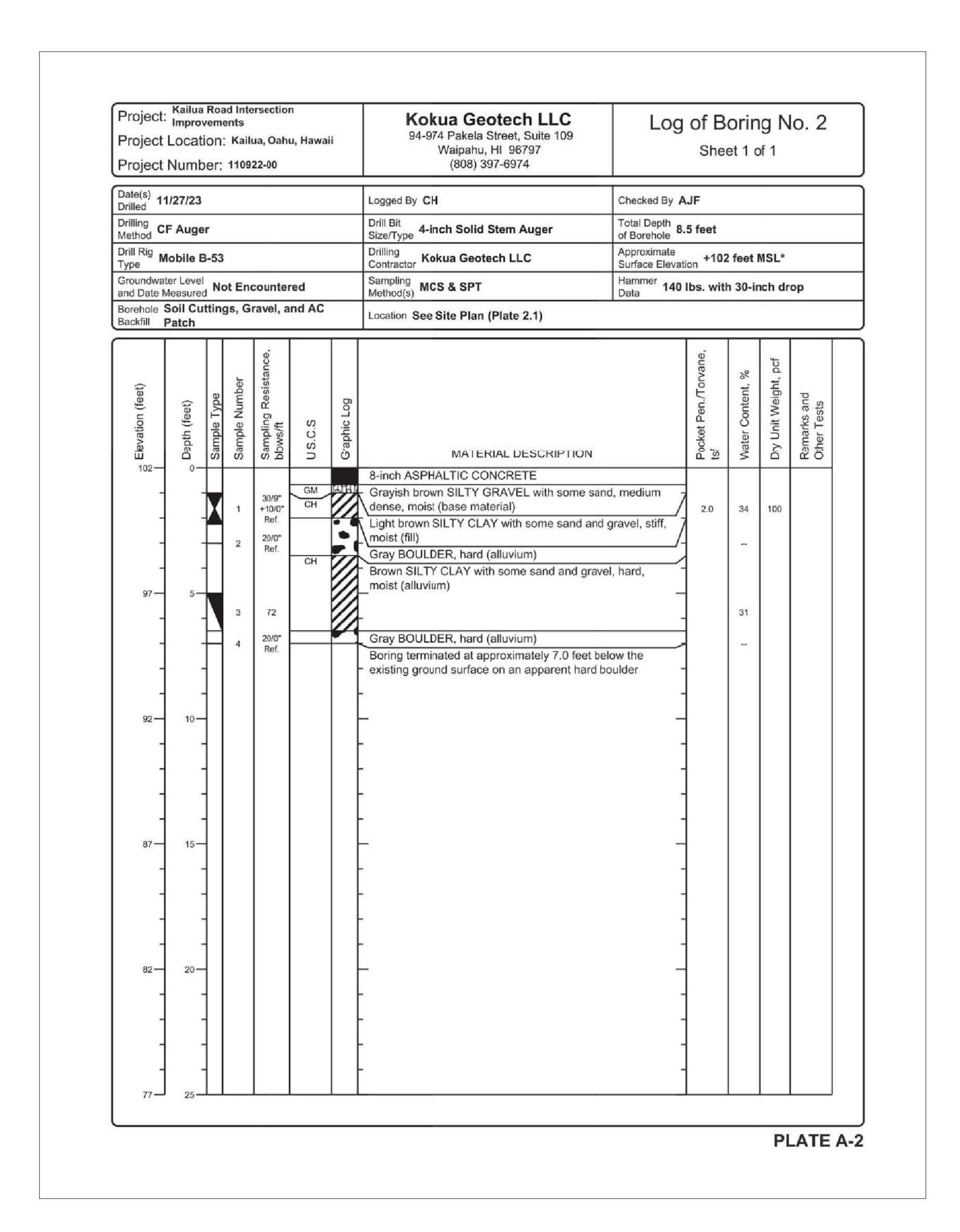
GEOTECHNICAL NOTES:

- 1. A geotechnical engineering technical memorandum entitled "Kailua Road Intersection Improvements Vicinity of Uluoa Street and Ulumanu Drive" dated December 1st, 2023 has been prepared by Kokua Geotechincal LLC. A copy of the report is on file at the office of the Engineer for review by the Contractor.
- 2. For boring locations, see Sheets 7 \$ 8 of the report.
- 3. The information presented in the logs of borings depict the subsurface conditions encountered at that specified location and at the time of the field exploration only. Variations of subsoil conditions from those depicted in the logs of borings may occur between and beyond the borings.



- 4. The penetration resistance shown on the logs of borings indicate the number of blows required for the specific sampler type used. The blow counts may need to be factored to obtain the Standard Penetration Test (SPT) blow counts.
- 5. The data given is for general information only. Bidders shall examine the site and the boring data and draw their own conclusions therefrom as to the character of materials to be encountered. The Engineer will not assume responsibility for variations of subsoil quality or conditions other than at the boring locations shown and at the time the borings were taken.





2

A Replaced Boring Logs

REVISION

BORING LOG -KAILUA ROAD INTERSECTION IMPROVEMENTS Vicinity of Uluoa Street and Ulumanu Drive

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

Project No. 61D-01-23 Date: DEC, 2023 Scale: N/A

No. 1

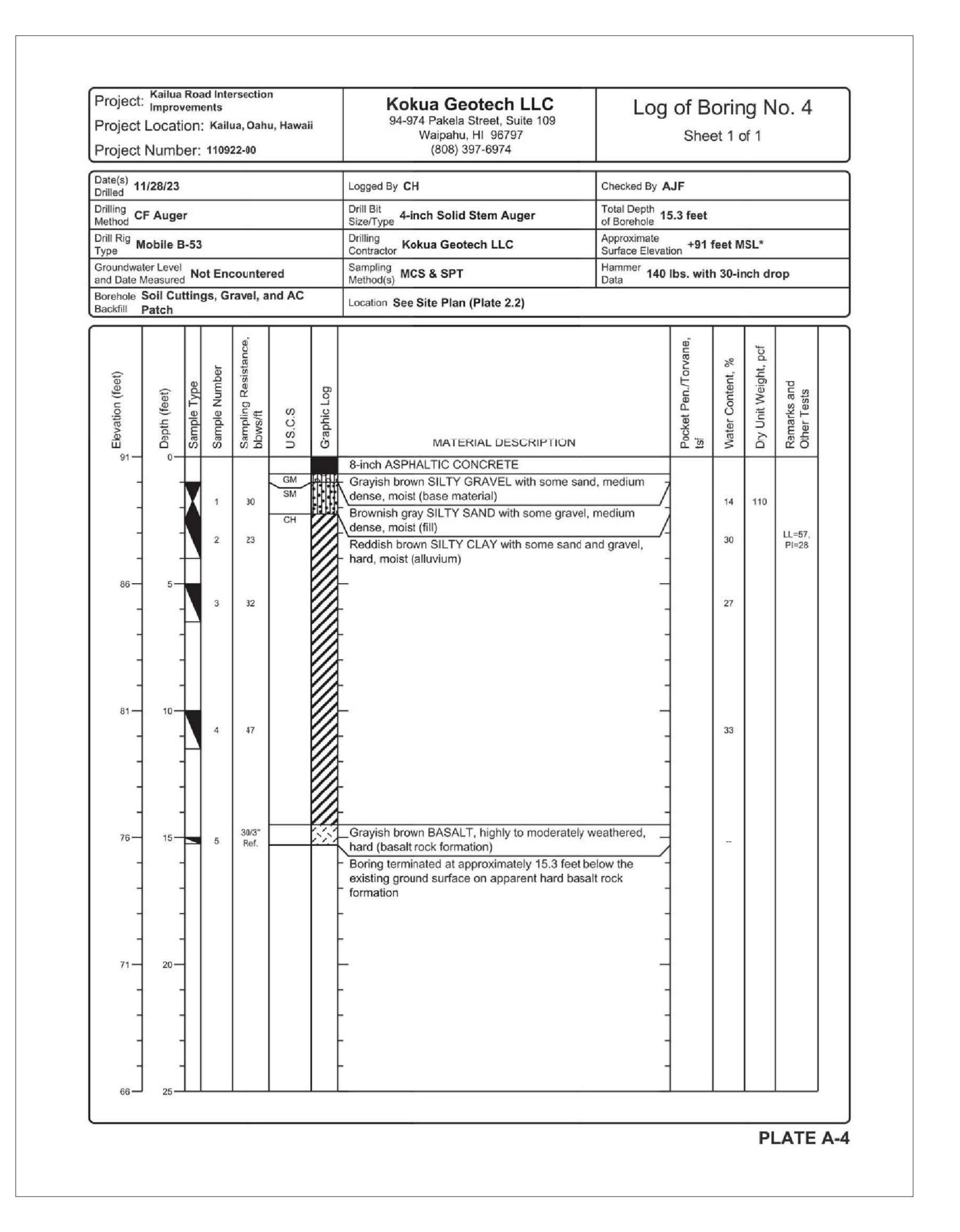
SHEETS

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Project: Kailua Road Intersection Improvements Project Location: Kailua, Oahu, Hawaii Project Number: 110922-00				ua, Oah		ii	Kokua Geotech LLC 94-974 Pakela Street, Suite 109 Waipahu, HI 96797 (808) 397-6974	of Boring No. 3 Sheet 1 of 1					
Date(s) Drilled 11/28/23							Logged By CH Checked By AJF						
Drilling Method CF Auger							Drill Bit Size/Type 4-inch Solid Stem Auger	olid Stem Auger Total Depth of Borehole 13.5 feet					
2.32					Drilling Contractor Kokua Geotech LLC Surface Elevation			199 foot MCI *					
Type				counter	red					lbs. with 30-inch drop			
Borehole Soil Cuttings, Gravel, and AC Backfill Patch							Location See Site Plan (Plate 2.2)						
Elevation (feet)	o Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	US.C.S	Graphic Log	MATERIAL DESCRIPTION		Pocket Pen./Torvane, tsf	Water Content, %	Dry Unit Weight, pcf	Remarks and Other Tests	
83	5—	X	1	34 25	GM SM CH		8-inch ASPHALTIC CONCRETE Grayish brown SILTY GRAVEL with some sidense, moist (base material) Brownish tan SILTY SAND with some grave dense, moist (fill) Brownish tan SILTY CLAY with some sand, cobbles, very stiff, moist (fill) Brown SILTY CLAY with some sand and a least of the company of t	l, medium		8	131		
78—	10-	X	4	31			moist (alluvium)		1.5	26	100	Sw.= 8.9%	
73-	15—		5	10/0" Ref.			Grayish brown BASALT, moderately weather (basalt rock formation) Boring terminated at approximately 13.5 fee existing ground surface on apparent hard base—formation	t below the		***			
68 —	25 —												

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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

BORING LOG - 2

KAILUA ROAD INTERSECTION IMPROVEMENTS Vicinity of Uluoa Street and Ulumanu Drive Project No. 61D-01-23

A Replaced Boring Logs REVISION

Scale: N/A SHEET No. 2 OF

FED. ROAD STATE DIST. NO.

HAWAII HAW. 61D-01-23

PROJ. NO.

2024 ADD.68 87

Date: DEC, 2023 SHEETS

