

STATE OF HAWAII
DEPARTMENT OF HAWAIIAN HOME LANDS

Land Development Division

12/1/22

Date

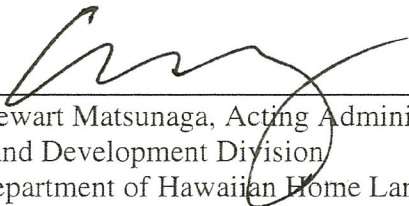
ADDENDUM NO. 4
TO
INVITATION FOR BIDS
IFB-23-HHL-006

**SITE AND INFRASTRUCTURE IMPROVEMENTS FOR
HANAPEPE RESIDENTIAL LOTS, PHASE 2**

Notice to All Prospective Offerors

This addendum is hereby made a part of the contract documents for "Site and Infrastructure Improvements for Hanapepe Residential Lots" IFB-23-HHL-006, and it shall amend the said contract documents as detailed within this Addendum document.

APPROVED:



Stewart Matsunaga, Acting Administrator
Land Development Division
Department of Hawaiian Home Lands

Please execute and immediately return the receipt below to the Department of Hawaiian Home Lands via facsimile to: **(808) 620-9299, Mr. Bryan Toda, Land Development Division, or scan and E-mail to: Bryan.toda@hawaii.gov.**

Receipt of Addendum No. ____ for "Site and Infrastructure Improvements for Hanapepe Residential Lots, Phase 2," Invitation for Bids No.: IFB-21-HHL-009, is hereby acknowledged.

Signature: _____
Print Name: _____

Title

Name of Firm/Company

Date

ADDENDUM NO.4 SUMMARY

Site and Infrastructure Improvements for Hanapepe Residence Lots, Phase 2 (IFB-23-HHL-006)

SUMMARY:

This Addendum No. 4 shall incorporate the following amendments to the Construction Drawings and IFB-23-HHL-006:

I. CHANGES TO DRAWINGS:

1. New Drawing sheets:

Written Changes to New Sheets Issue

A. Civil, C-205A, Ali'i Road Drainline Plan and Profile

- Shows the extended finish grade of Ali'i Road connecting to Moi Road

B. Civil, C-515, Water Details 7

- Shows Vault Detailed Plan for PRV

2. Deleted Drawing sheets:

- None

3. Revised Drawing sheets Reissued:

Written Changes to Revised Sheets Reissue

A. Civil, T-2, Index of Drawings and Abbreviations

- Added C-205A on the Drawing Index

B. Civil, C1-02, Demolition Plan

- Revised Ali'i Road sawcut and ac pavement removal limits
- Updated callout for the removal of existing concrete headwall

C. Civil, C-103, Overall Erosion and Sediment Control Plan – 1

- Revised Grading Phasing Limits

- D. Civil, C-104, Overall Erosion and Sediment Control Plan – 2
 - Revised Grading Phasing Limits
- E. Civil, C-106, Overall Site Plan
 - Updated Ali'i Road ac pavement and landscape limits
- F. Civil, C-107, Overall Grading Plan – 1
 - Updated Ali'i Road limits of grading and disturbance
 - Updated earthwork summary table
- G. Civil, C-109, Grading Phasing Plan
 - Revised Grading Phasing Limits
 - Updated approximate earthwork table
- H. Civil, C-114, Overall Water Plan
 - Added PRV Vault Box along Ahi Road
- I. Civil, C-118, Site Plan – 2
 - Extended Ali'i Road ac pavement and landscape limits
- J. Civil, C-120, Signage and Pavement Marking Plan – 2
 - Extended double yellow stripe along Ali'i Road
- K. Civil, C-205, Ahi Road Drainline Plan and Profile
 - Removed Ali'i Road Drainline Plan and Profile
 - Updated sheet title, from “Ahi Road and Ali'i Road Drainline Plan and Profile” to “Ahi Road Drainline Plan and Profile”
- L. Civil, C-234, Waterline B Plan and Profile
 - Plan - Added 6” PRV Vault Box and appurtenances
 - Plan – Added 33'x23' Water Easement callout
 - Profile – Updated tee connections
- M. Civil, C-235, Waterline C Plan and Profile
 - Plan & Profile – extended ac pavement along Ali'i Road

II. CHANGES TO IFB:

In Bid Offer Form, replace the Proposal Items with the attached Bid Offer Form with changes marked in **red**.

1. New IFB pages:
 - None
2. Deleted IFB pages: None
 - None
3. Revised IFB pages Reissued:

Written Changes to Revised Pages Reissue

A. Bid Offer Form

- Site Improvements (Items 7, 8, & 9) – Updated quantities for AC Pavement, Aggregate Base Course and Aggregate Subbase Course
- Water (Item 42) – Added PRV Assembly (in-place complete)
- Electrical (Items 94, 95) – Updated quantities for Handholes
- Electrical (Items 122, 123) - Updated quantities for Handholes
- Electrical (Item 122) – Revised description from 2'x4' Telecom Handholes to 30"x48"x33" Telecom Handholes
- Renumber items 42-138 to 43-139

END OF ADDENDUM NO. 4 NARRATIVE

**STATE OF HAWAII
DEPARTMENT OF HAWAIIAN HOME LANDS**

BID OFFER FORM FOR

SITE AND INFRASTRUCTURE IMPROVEMENTS FOR HANAPĒPĒ RESIDENTIAL LOTS,

PHASE 2

WAIMEA, KAUA‘I, HAWAI‘I

TAX MAP KEY:

(4) 1-8-007: 003 (PORTION) & (4) 2-8-007: 001 TO 050 (PORTION)

IFB No.: IFB-23-HHL-006

Chairman
Hawaiian Homes Commission
Department of Hawaiian Home Lands
91-5420 Kapolei Parkway
Kapolei, Hawaii 96707

The undersigned has carefully examined, read, and understands the terms and conditions in the Plans and Specifications, Special Conditions attached hereto, DHHL Construction General Conditions, and General Conditions specified in the Invitation for Bids (IFB) No. IFB-23-HHL-006. The State of Hawaii's (State) Contract for Goods and Services Based on Competitive Sealed Bids AG-003 Rev. 6/22/2009, AG-008 103D General Conditions, are included by reference and made part hereof and available upon written request to the Procurement Officer. The undersigned hereby submits the following offer to perform the work for IFB No. IFB-23-HHL-006 as specified herein, all in accordance with the true intent and meaning thereof.

The undersigned understands and agrees that:

1. The State reserves the right to reject any and all offers and to waive any items that are defective when, in the State's opinion, such rejection or waiver will be in the best interest of the State. A solicitation may be rejected in whole or part when in the best interest of the State.
2. If awarded the contract, all services will be in accordance with Hawaii Revised Statutes (HRS) Chapter 103, Part II, regarding public works and contracts.
3. In submitting this offer, the Offeror is not in violation of HRS Chapter 84, Standards of Conduct.
4. By submitting this offer, the Offeror certifies that the offer was independently arrived at without collusion and the Offeror did not participate in any practices to restrict competition.
5. It is understood that the failure to receive any addendum shall not relieve the Offeror from any obligation under this IFB.

Site and Infrastructure Improvements for
Hanapēpē Residential Lots, Phase 2
IFB-23-HHL-006

Bid Offer Form
December 2022

Date: _____

The undersigned represents that it is: **(Check ✓ one only)**

- ☐ A **Hawaii business** incorporated or organized under the laws of the State of Hawaii; **OR**
☐ A **Compliant Non-Hawaii business** not incorporated or organized under the laws of the State of Hawaii, is or shall be registered at the State of Hawaii Department of Commerce and Consumer Affairs Business Registration Division (DCCA-BREG) to do business in the State of Hawaii.

State of incorporation: _____

Offeror is:

☐ Sole Proprietor ☐ Partnership ☐ Corporation ☐ Joint Venture ☐ Other: _____

Federal ID No.: _____

Hawaii General Excise Tax ID No.: _____

Telephone No.: _____

Fax No.: _____

E-Mail Address.: _____

Payment address (other than street address below)

(Street Address, City, State, Zip Code)

Business address

(Street Address, City, State, Zip Code)

Respectfully submitted:

Authorized (Original) Signature

Name and Title (Please Type or Print)

* _____
Exact Legal Name of Company (Offeror)

*If Offeror shown above is a "dba" or a "division" of a corporation, furnish the exact legal name of the corporation under which the awarded contract will be executed:

Site and Infrastructure Improvements for
Hanapēpē Residential Lots, Phase 2
IFB-23-HHL-006

Bid Offer Form
December 2022

The following bid is hereby submitted for Site and Infrastructure Improvements for Hanapēpē Residential Lots, Phase 2 to the Department of Hawaiian Home Lands.

SITE AND INFRASTRUCTURE IMPROVEMENTS FOR HANAPĒPĒ RESIDENTIAL LOTS, PHASE 2

The prices bid herein for the following items shall include all materials, labor, tools, equipment, machinery and all incidentals necessary to install or to construct these items in place complete, all in accordance with the plans and specifications. Note. Prices are inclusive of general excise tax (GET).

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
<u>SITE DEMOLITION</u>					
1.	28	Clearing and Grubbing	Per Acre	\$ _____	\$ _____
2.	1,863	Remove Chain Link Fence	Per Lin. Ft.	\$ _____	\$ _____
3.	1	Remove Headwall	Each	\$ _____	\$ _____
TOTAL – SITE DEMOLITION (Item 1 to 3, inclusive)					\$ _____
<u>SITE EARTHWORK</u>					
4.	33,700	Excavation	Per Cu. Yd.	\$ _____	\$ _____
5.	41,750	Embankment	Per Cu. Yd.	\$ _____	\$ _____
6.	L.S.	Importing, Loading, Hauling and Grading	Lump Sum		\$ _____
TOTAL – SITE EARTHWORK (Item 4 to 6, inclusive)					\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
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SITE IMPROVEMENTS

7.	7,738 7,792	2" AC Pavement	Per Sq. Yd.	\$	\$
8.	7,738 7,792	6" Aggregate Base Course	Per Sq. Yd.	\$	\$
9.	7,738 7,792	6" Aggregate Subbase Course	Per Sq. Yd.	\$	\$
10.	15,963	4" Concrete Driveway Apron	Per Sq. Ft.	\$	\$
11.	27,065	4" Concrete Sidewalk	Per Sq. Ft.	\$	\$
12.	43,930	4" Base course under sidewalks areas including under curb ramps, driveway and conc headers	Per Sq. Ft.	\$	\$
13.	6,342	Concrete Header	Per Lin. Ft.	\$	\$
14.	902	Concrete Curb Ramps	Per Sq. Ft.	\$	\$
15.	191	Grade Adjustment Wall (2' max)	Per Lin. Ft.	\$	\$

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
16.	L.S.	Smooth Riding Connection to existing pavement at: Alii Road and Moi Road, Ahi Road and Moi Road, Eleu Road and Moi Road	Lump Sum	\$	
TOTAL – SITE IMPROVEMENTS (Item 7 to 16, inclusive)					\$

SIGNAGE AND STRIPING IMPROVEMENTS

17.	2,851	Double 4-inch, yellow center line	Per Lin. Ft.	\$	\$
18.	4	"STOP" sign with street name sign and post	Each	\$	\$
19.	127	24-inch wide, solid white crosswalk line	Per Lin. Ft.	\$	\$
20.	40	12-inch wide, solid stop bar	Per Lin. Ft.	\$	\$
TOTAL – SIGNAGE AND STRIPING IMPROVEMENTS (Item 17 to 20, inclusive)					\$

WATER

21.	4	1" Service lateral with Type A service connection and all appurtenances off main	Each	\$	\$
22.	39	1-1/2" Service lateral with Type C service connection all appurtenances off main	Each	\$	\$

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
23.	82	Type X meter box	Each	\$ _____	\$ _____
24.	L.S.	Pipe Marker	Lump Sum		\$ _____
25.	221	6" Waterline	Per Lin. Ft.	\$ _____	\$ _____
26.	3,430	8" Waterline	Per Lin. Ft.	\$ _____	\$ _____
27.	10	Fire hydrant, 4.0' header to invert	Each	\$ _____	\$ _____
28.	L.S.	Water Piping Fittings (10 - 8" x 8" x 6" Tee at 175 Lbs 2 - 8" x 8" Tee at 185 Lbs 1 - 8" x 8" Cross at 225 Lbs 4 - 8" 1/8 Bend at 110 Lbs 1 - 6" 1/4 Bend at 85 Lbs 3 - 8" End Cap at 45 Lbs)	Lump Sum		\$ _____
29.	10	6" Gate valve, Class 200	Each	\$ _____	\$ _____
30.	9	8" Gate valve, Class 200	Each	\$ _____	\$ _____
31.	19	Valve box including cast iron frame and cover, pipe sleeve and concrete anchor pad	Each	\$ _____	\$ _____
32.	2	8" Cap with 2" C.O. (Temporary for testing)	Each	\$ _____	\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
33.	2	Class B concrete for reaction blocks, gate valve anchor blocks. (Temporary for testing)	Each	\$ _____	\$ _____
34.	2	2" Cleanout/Manhole	Each	\$ _____	\$ _____
35.	18	Class B concrete for reaction blocks, gate valve anchor block	Each	\$ _____	\$ _____
36.	38	RC Jacket Around Waterline	Per Lin. Ft.	\$ _____	\$ _____
37.	L.S.	Unclassified excavation for 8" water mains, valve boxes and appurtenances, including backfill (2,424 C.Y.)	Lump Sum		\$ _____
38.	433	Pipe Cushion Material	Per Cu. Yd.	\$ _____	\$ _____
39.	38	Reinforced concrete jacket for water	Per Lin. Ft.	\$ _____	\$ _____
40.	2	Connection to existing main along Moi Road	Each	\$ _____	\$ _____
41.	L.S.	Chlorination and testing at the intersection of Ahi Road/Moi Road and Ali'i Road/Moi Road	Lump Sum		\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
42.	L.S.	PRV Assembly (in-place complete)	Lump Sum	\$	
TOTAL – WATER (Item 21 to 44 42, inclusive)					
<u>SEWER</u>					
42. 43.	2,424	6" Sewer Pipe including excavation and fill	Per Lin. Ft.	\$	\$
43. 44.	2,766	8" Sewer Pipe	Per Lin. Ft.	\$	\$
44. 45.	82	6"x6" Sewer Pipe Wye	Each	\$	\$
45. 46.	L.S.	Pipe Marker	Lump Sum	\$	
46. 47.	23	Reinforced concrete manhole base	Each	\$	\$
47. 48.	23	Manhole frame and cover	Each	\$	\$
48. 49.	17	Standard plain manhole, 6' - 6.99'	Each	\$	\$
49. 50.	2	Standard plain manhole, 7' - 7.99'	Each	\$	\$
50. 51.	3	Standard plain manhole, 8' - 8.99'	Each	\$	\$

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
51. 52.	1	Standard plain manhole, 9' - 9.99'	Each	\$ _____	\$ _____
52. 53.	L.S.	Unclassified excavation for 8" sewer lines, manholes including backfill and manhole seals (2,416 C.Y.)	Lump Sum		\$ _____
53. 54.	786	Pipe Cushion Material	Per Cu. Yd.	\$ _____	\$ _____
54. 55.	10	Reinforced concrete jacket for existing sewer	Per Lin. Ft.	\$ _____	\$ _____
55. 56.	2	Connection to existing 8" sewer manhole in Alii Road at sta. (-)1+41± and in Eleu Road at sta. 0+00 including removing existing plug, excavation and backfilling	Each	\$ _____	\$ _____
TOTAL – SEWER (Item 42 43 to 55 56, inclusive)					\$ _____
<u>DRAINAGE</u>					
56. 57.	34	Reinforced concrete manhole base	Each	\$ _____	\$ _____
57. 58.	34	Manhole frame and cover	Each	\$ _____	\$ _____
58. 59.	17	Standard plain manhole, 8' - 11.99'	Each	\$ _____	\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
59. 60.	17	Standard plain manhole, 12' - 15.99'	Each	\$ _____	\$ _____
60. 61.	1	Flow Control Manhole	Each	\$ _____	\$ _____
61. 62.	4	3' x 3' Drain Inlet	Each	_____	\$ _____
62. 63.	26	4' x 4' Drain Inlet	Each	\$ _____	\$ _____
63. 64.	45	12" Storm drain pipe, reinforced concrete pipe, Class III	Per Lin. Ft.	\$ _____	\$ _____
64. 65.	1,695	18" Storm drain pipe, reinforced concrete pipe, Class III	Per Lin. Ft.	\$ _____	\$ _____
65. 66.	996	24" Storm drain pipe, reinforced concrete pipe, Class III	Per Lin. Ft.	\$ _____	\$ _____
66. 67.	1,122	30" Storm drain pipe, reinforced concrete pipe, Class III	Per Lin. Ft.	\$ _____	\$ _____
67. 68.	2,154	36" Storm drain pipe, reinforced concrete pipe, Class III	Per Lin. Ft.	\$ _____	\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
68. 69.	161	66" Storm drain pipe, reinforced concrete pipe, Class III	Per Lin. Ft.	\$ _____	\$ _____
69. 70.	6	Concrete Headwall	Each	\$ _____	\$ _____
70. 71.	L.S.	Unclassified excavation for drain lines, inlets, backfill and pipe cushion (8,110 C.Y.)	Lump Sum		\$ _____
71. 72.	2,158	Pipe Cushion Material	Per Cu. Yd.	\$ _____	\$ _____
72. 73.	1	Concrete Collar	Each	\$ _____	\$ _____
73. 74.	1	Connect to Exist. 66" Drainline	Each	\$ _____	\$ _____
74. 75.	1	Connect to Exist. Drain Manhole	Each	\$ _____	\$ _____
TOTAL – DRAINAGE (Item 56 57 to 74 75, inclusive)					\$ _____

BASIN

75. 76.	11,244	Excavation	Per Cu. Yd.	\$ _____	\$ _____
76. 77.	4,411	Embankment	Per Cu. Yd.	\$ _____	\$ _____
77. 78.	L.S.	Importing, Loading, Hauling and Grading	Lump Sum		\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
78. 79.	454	2" AC Pavement	Per Sq. Yd.	\$ _____	\$ _____
79. 80.	454	6" Aggregate Base Course	Per Sq. Yd.	\$ _____	\$ _____
80. 81.	454	6" Aggregate Subbase Course	Per Sq. Yd.	\$ _____	\$ _____
81. 82.	77	Riprap Spillway (18" thick)	Per Cu. Yd.	\$ _____	\$ _____
82. 83.	1,420	Reinforcement Mat	Per Sq. Yd.	\$ _____	\$ _____
TOTAL – BASIN (Item 75 76 to 82 83, inclusive)					\$ _____

EROSION CONTROL

83. 84.	7,328	Filter Sock	Per Lin. Ft.	\$ _____	\$ _____
84. 85.	7,328	Construction Dust Fence	Per Lin. Ft.	\$ _____	\$ _____
85. 86.	1,367	Reinforcement Mat	Per Sq. Yd.	\$ _____	\$ _____
86. 87.	30	Drain Inlet Protection	Each	\$ _____	\$ _____
87. 88.	2	Stabilized Construction Entrance	Each	\$ _____	\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
88. 89.	L.S.	Maintenance of BMPs	Lump Sum	\$	_____
89. 90.	L.S.	Removal of BMPs	Lump Sum	\$	_____
TOTAL – EROSION CONTROL (Item 83 84 to 89 90, inclusive)					\$ _____

ELECTRICAL

90. 91.	L.S.	Transformer Pads	Lump Sum	\$	_____
91. 92.	32	Light Pole w/ Concrete Base and LED Light Fixture	Each	\$ _____	\$ _____
92. 93.	3	4' x 6' Handholes - Electrical	Each	\$ _____	\$ _____
93. 94.	11 9	3' x 5' Handholes - Electrical	Each	_____	\$ _____
94. 95.	10 9	2' x 4' Handholes - Electrical	Each	\$ _____	\$ _____
95. 96.	32	17" x 30" Handholes - Lighting	Each	\$ _____	\$ _____
96. 97.	8,600	4"C, PVC Schedule 40 - Electrical	Per Lin. Ft.	\$ _____	\$ _____
97. 98.	5,000	3"C, PVC Schedule 40 - Electrical	Per Lin. Ft.	_____	\$ _____
98. 99.	3,400	3"C, PVC Schedule 40 - Lighting	Per Lin. Ft.	\$ _____	\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
99. 100.	5,000	1 1/2"C, PVC Schedule 40 - Electrical	Per Lin. Ft.	\$	\$
100. 101.	400	1 1/4"C, PVC Schedule 40 - Lighting	Per Lin. Ft.	\$	\$
101. 102.	L.S.	Conduit Stubs	Lump Sum	\$	\$
102. 103.	200	Conductors	CLF	\$	\$
103. 104.	2	Street Light Cabinets/Equipment	Each	\$	\$
104. 105.	8,600	Mule Tape/Pull cord	Per Lin. Ft.	\$	\$
105. 106.	4500	Trench, Backfill, Compact, Concrete Encase	Per Lin. Ft.	\$	\$
106. 107.	700	Restore Surface	Per Lin. Ft.	\$	\$
107. 108.	L.S.	Penetrations & Patch	Lump Sum	\$	\$
108. 109.	L.S.	Utility Company Coordination, Services, Miscellaneous, Etc.	Lump Sum	\$	\$
109. 110.	L.S.	Miscellaneous, Testing and Construction Contingencies	Lump Sum	\$	\$

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
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TOTAL – ELECTRICAL
(Item ~~90~~ 91 to ~~109~~ 110, inclusive) \$ _____

TELECOM/CATV

110 -111.	3,400	4"C, PVC Schedule 40 - CATV	Per Lin. Ft.	\$ _____	\$ _____
111 -112.	3,400	4"C, PVC Schedule 40 - Telecom	Per Lin. Ft.	\$ _____	\$ _____
112 -113.	1,000	2"C, PVC Schedule 40 - CATV	Per Lin. Ft.	\$ _____	\$ _____
113 -114.	1,000	2"C, PVC Schedule 40 - Telecom	Per Lin. Ft.	\$ _____	\$ _____
114 -115.	5,000	1 1/2"C, PVC Schedule 40 - CATV	Per Lin. Ft.	\$ _____	\$ _____
115 -116.	5,000	1 1/2"C, PVC Schedule 40 - Telecom	Per Lin. Ft.	\$ _____	\$ _____
116 -117.	L.S.	Conduit Stubs	Lump Sum		\$ _____
117 -118.	110	Cables - Data/Voice	CLF	\$ _____	\$ _____
118 -119.	110	Cables - CATV (110 CLF)	CLF	\$ _____	\$ _____
119 -120.	3	3' x 5' Telecom Handholes	Each	\$ _____	\$ _____

Item No.	Estimated Quantity	Description	Unit	Unit Price	Total
120. 121.	3	3' x 5' CATV Handholes	Each	\$ _____	\$ _____
121. 122.	24 18	2' x 4' Telecom Handholes 30"x48"x33" Telecom Handholes	Each	\$ _____	\$ _____
122. 123.	24 18	2' x 4' CATV Handholes	Each	\$ _____	\$ _____
123. 124.	L.S.	CATV Power Supply Pedestal/ Equipment	Lump Sum		\$ _____
124. 125.	7,200	Mule Tape/Pull cord	Per Lin. Ft.	\$ _____	\$ _____
125. 126.	2,000	Trench, Backfill, Compact, Concrete Encase	Per Lin. Ft.	\$ _____	\$ _____
126. 127.	400	Restore Surface	Per Lin. Ft.	\$ _____	\$ _____
127. 128.	L.S.	Penetrations & Patch	Lump Sum		\$ _____
128. 129.	L.S.	Utility Company Coordination, Services, Miscellaneous, Etc.	Lump Sum		\$ _____
129. 130.	L.S.	Miscellaneous, Testing and Construction Contingencies.	Lump Sum		\$ _____

TOTAL – TELECOM/CATV.
(Item 111 to 130, inclusive) \$ _____

MISCELLANEOUS ITEMS

130. 131.	L.S.	Fire contingency plan	Lump Sum	\$ _____
131. 132.	1	Project sign for the Department of Hawaiian Home Lands (DHHL)	Each	\$ _____ \$ _____
132. 133.	L.S.	Temporary Traffic Control Plan	Lump Sum	\$ _____
133. 134.	1	Backup open trailer-mounted Godwin 4-inch pump and diesel engine or approved equal for the existing Riverside Sewer Pump Station No. 1	Each	\$ _____ \$ _____
134. 135.	1	Backup open skid-mounted Godwin 6-inch pump and diesel engine or approved equal for the existing Fire Station Sewer Pump Station No. 2	Each	\$ _____ \$ _____
135. 136.	Allowance	Archeological Services	Allowance	\$ 100,000.00
136. 137.	Allowance	Geotechnical Services	Allowance	\$ 100,000.00
137. 138.	Allowance	Unforeseen Site Conditions	Allowance	\$ 500,000.00
138. 139.		Mobilization (Not to exceed 6% of the sum of all items, excluding bid price of this item, field office, allowances, and force account items)	Lump Sum	\$ _____

TOTAL – MISCELLANEOUS ITEMS
(Item ~~130~~ 131 to ~~138~~ 139, inclusive) \$ _____

RECAPITULATION

TOTAL – SITE DEMOLITION (Items 1 to 3, inclusive)	\$ _____
TOTAL – SITE EARTHWORK (Items 4 to 6, inclusive)	\$ _____
TOTAL – SITE IMPROVEMENTS (Items 7 to 16 inclusive)	\$ _____
TOTAL – SIGNAGE AND STRIPING IMPROVEMENTS (Items 17 to 20, inclusive)	\$ _____
TOTAL – WATER (Items 21 to 41 42, inclusive)	\$ _____
TOTAL – SEWER (Items 42 43 to 55 56, inclusive)	\$ _____
TOTAL – DRAINAGE (Items 56 57 to 74 75, inclusive)	\$ _____
TOTAL – BASIN (Items 75 76 to 82 83, inclusive)	\$ _____
TOTAL – EROSION CONTROL (Items 83 84 to 89 90, inclusive)	\$ _____
TOTAL – ELECTRICAL (Items 90 91 to 109 110, inclusive)	\$ _____
TOTAL – TELECOM/CATV (Items 110 111 to 129 130, inclusive)	\$ _____
TOTAL – MISCELLANEOUS ITEMS (Items 130 131 to 138 139, inclusive)	\$ _____

TOTAL – SUM BID (Items 1 to ~~138~~ 139, inclusive) \$ _____

TOTAL SUM BID = _____

Dollars (\$ _____).

The prices herein for the above items shall include all materials, labor, tools, equipment, machinery and all incidentals necessary, inclusive of general excise tax to install or to construct these items in place complete and in accordance with the plans and specifications contained in this IFB.

The CONTRACTOR shall complete all work as specified or indicated in the Contract Documents on or before FOUR HUNDRED AND FIFTY (450) calendar days after receiving written Notice to Proceed, subject to extensions, as may be granted.

APPRENTICESHIP AGREEMENT PREFERENCE

Section 103-55.6, HRS, provides for a Hawai'i Apprenticeship Preference for public works contracts having an estimated value of \$250,000.00 or more. The preference shall be in the form of a 5% bid adjustment applied to the bidder's amount for bidders that are parties to apprenticeship agreements. The estimated value of this public works contract is \$250,000.00 or more and the apprenticeship agreement preference **shall** apply.

To be eligible for the preference, the bidder shall:

1. Be a party to an apprenticeship agreement registered with the DLIR at the time the bid is made for each apprenticeable trade the bidder will employ to construct the public works project for which the bid is being made.
 - a. The apprenticeship agreement shall be registered and conform to the requirements of HRS Chapter 372.
 - b. Subcontractors do not have to be a party to an apprenticeship agreement for the bidder to obtain the preference.
 - c. The bidder is not required to have apprentices in its employ at the time the bid is submitted to qualify for the preference.
 - d. If a bidder's employee is multi-skilled and able to perform work in more than one trade (for example, a project requires a carpenter and a laborer, and the employee is a carpenter, but is also able to perform the work of a laborer), the bidder need only be a party to the carpenter's apprenticeship agreement and does not need to be a party to the laborer's apprenticeship agreement in order to qualify for the preference. The bidder is not "employing" a laborer, only a carpenter, and so only needs to be a party to the carpenter's apprenticeship agreement.
 - e. Qualification for the preference is given on a project-by-project basis and depends upon the specific offer for a specific project. A bidder's employees may vary from project to project and may qualify for the preference on one project but may not qualify on another project. For example, on one project, if the bidder only employs carpenters to perform work in the carpentry and labor trades, then the bidder only needs to be a party to the carpenter's apprenticeship agreement in order to qualify for the preference. However, on another project if the same bidder employs both carpenters and laborers, then the bidder will not qualify for the preference if the bidder is only a party to the carpenter's apprenticeship agreement and not the laborer's apprenticeship agreement.
2. State the trades the bidder will employ to perform the work;

3. For each trade to be employed to perform the work, the bidder shall submit a completed signed original *CERTIFICATION OF BIDDER'S PARTICIPATION IN APPROVED APPRENTICESHIP PROGRAM UNDER ACT 17 (Certification Form 1)* verifying the participation in an apprenticeship program registered with the State Department of Labor and Industrial Relations (DLIR);
4. The *Certification Form 1* shall be authorized by an apprenticeship sponsor of the DLIR list of registered apprenticeship programs. The authorization shall be an original signature by an authorized official of the apprenticeship sponsor; and
5. The completed *Certification Form 1* for each trade must be submitted by the bidder with the offer. A facsimile or copy is acceptable to be submitted with the offer; however, the completed signed original must be submitted within five (5) working days of the due date of the offer. If the signed original is not received within this timeframe, the preference may be denied. Previous certifications shall not apply.

Failure to comply with ALL of the conditions noted above, without exception, shall disqualify the Bidder from qualifying for, and thus receiving, benefit of the Hawai'i Apprenticeship Preference.

The *Certification Form 1* and the List of Construction Trades in Registered Apprenticeship Programs is available on the DLIR website at: <http://labor.hawaii.gov/wdd/>.

Upon receiving *Certification Form 1*, the DHHL will verify with DLIR that the apprenticeship program is on the list of apprenticeship programs registered with the DLIR. If the program(s) are not confirmed by the DLIR, the bidder will not qualify for the preference.

If the bidder is certified to participate in an apprenticeship program for each trade which will be employed by the bidder for the project, a preference will be applied to decrease the bidder's total bid amount by five per cent (5%) for evaluation purposes.

Should the bidder qualify for other preferences (for example, Hawaii Products Preference), all applicable preferences shall be applied to the bid amount.

While the Hawai'i Apprenticeship Agreement Preference will be taken into consideration to determine the low bidder, the contract awarded shall be the original bid amount, exclusive of any preferences. The preference is only for evaluation purposes.

The bidder hereby certifies that it will employ the following apprenticeable trades to perform the work for this project:

[illegible]

22

ALL JOINT CONTRACTORS OR SUBCONTRACTORS TO BE ENGAGED ON THIS PROJECT

The Bidder certifies that the following is a complete listing of all joint Contractors or Subcontractors covered under Chapter 444, HRS, who will be engaged by the Bidder on this project to perform the nature and scope of work indicated pursuant to Section 103D-302, HRS, and understands that failure to comply with this requirement shall be just cause for rejection of the bid.

The Bidder further understands that only those joint Contractors or Subcontractors listed shall be allowed to perform work on this project and that all other work necessary shall be performed by the Bidder with his own employees. If no joint Contractor or Subcontractor is listed, it shall be construed that all of the work shall be performed by the Bidder with his own employees.

The Bidders must be sure that they possess and that the Subcontractors listed in the bid possess all the necessary licenses needed to perform the work for this project. The bidder shall be solely responsible for assuring that all the specialty licenses required to perform the work are covered in his bid.

The Bidder shall include the license number of the joint Contractors or Subcontractors listed below. Failure to provide the correct names and license numbers as registered with the Contractor's Licensing Board may cause rejection of the bid submitted.

Complete Firm Name of Joint Contractor or Subcontractor	License Number	Hawaii Tax ID Number	Nature and Scope of Work to be Performed

(Add additional sheets if necessary)

METHOD OF AWARD

Bidder is required to bid on the entire project. The low bidder shall be determined by the procedures outlined in items 1) through 5) below:

- 1) Prior to opening of bids, the State will determine the amount of funds available for the project. This amount will be designated the "control amount". The control amount shall be announced at, and prior to the opening of bids.
- 2) The Base Bid and Alternate, if any, of each Bidder will be adjusted to reflect the applicable preferences in accordance with Chapter 103D, HRS. The Alternate, if any, will then be added to the Base Bid and compared with the control amount.
- 3) The low bidder shall be the Bidder having the lowest aggregate amount, within the control amount (after application of the various preferences), for the Base Bid plus the Alternate, if any.
- 4) If adding the Alternate, if any, would make the aggregate amount exceed the control amount for all Bidders, the low bidder shall be the Bidder having the lowest Base Bid after application of the various preferences.
- 5) A written notice of award of a contract will be made within hundred eighty (180) days after the opening of the bids. Said notice shall not be construed to be authorization to proceed with the performance of services under the contract. Any services performed by the Contractor prior to the date indicated in the Notice to Proceed shall be at the Contractor's risk. The bid price shall be firm for a minimum of hundred eighty (180) days from bid opening date to allow for contract execution.

It is further understood and agreed that:

- 1) The Chairman reserves the right to reject any and/or all bids and waive any defects when, in his opinion, such rejection or waiver will be in the best interest of the State.
- 2) After determining the low bidder, an award may be made either on the amount of the Base Bid alone, or including the Alternate (exclusive of preferences), if:
 - a. It is in the best interest of the State;
 - b. Funds are available at time of the award; and
 - c. The combination of the Base Bid plus Alternate does not change the apparent low bidder.
- 3) In the event the Base Bid for all Bidders exceed the control amount, the Chairman reserves the right to negotiate with the lowest responsible and responsive bidder to award a contract within available funds.
- 4) In the event the award is made for the Base Bid alone, the Chairman reserves the right to amend the contract at a later date to include the Alternate should funds subsequently become available.

OTHER CONDITIONS

- 1) The liquidated damages per working day for failure to complete the work on time have been determined and are noted in the Special Conditions of the sample contract.
- 2) By submitting this bid, the undersigned is declaring that his firm has not been assisted or represented on this matter by an individual who has, in a State capacity, been involved in the subject matter of this contract in the past one (1) year.
- 3) By submitting this bid, the undersigned is declaring that Bidder's own organization will perform at least 20% of the contractor's work. For the purposes of this section, the Contractor's work is defined as: direct cost labor for contractor's forces; direct cost materials installed by the contractor's direct cost labor force; direct cost equipment, either owned or leased, used by the contractor's direct cost labor force; and field overhead cost to include: field supervision, field office trailer (if any), field office equipment and supplies, etc.
- 4) Upon the acceptance of the bid by the Chairman, the undersigned must enter into and execute a contract for the same and furnish a Performance and Payment Bond, as required by law. These bonds shall conform to the provisions of Sections 103D-324 and 325, HRS, and any law applicable thereto.
- 5) The estimated quantities given herewith are approximate only, and are subject to increase or decrease.
- 6) The estimated quantities shown for items for which a UNIT PRICE is asked in this bid are only for the purpose of comparing on a uniform basis bids offered for the work under this contract. No claim shall be filed for anticipated profit or loss because of any difference between the quantities of the various classes of work done or the materials and equipment actually installed and the said estimated quantities. Payments will be made per the actual progress incorporated into the finished project at the contract Lump Sum Price.
- 7) If the product of the UNIT PRICE BID and the number of units does not equal the total amount stated by the undersigned in the Bid for any item, it will be assumed that the error was made in computing the total amount. For the purpose of determining the lowest Bidder, the stated UNIT PRICE alone will be considered as representing the Bidder's intention and the total amount bid on such items shall be considered to be the amount arrived at by multiplying the UNIT PRICE by the number of units.
- 8) Certification for Safety and Health Programs for Bids in Excess of \$100,000. In accordance with Sections 103D-327 and 396-18, HRS, by submitting this bid, the undersigned certifies that his firm will have a written Safety and Health Plan for this project that will be available and implemented by the Notice to Proceed date of this project. Details of the requirements of this plan may be obtained from the Department of Labor and Industrial Relations, Occupational, Safety and Health Division.
- 9) Any contract arising out of this offer is subject to the approval of the Department of the Attorney General as to form, and to all further approvals, including the approval of the Governor, required by statute, regulation, rule, order, or other directive.

Receipt of the following addenda issued by the Department is acknowledged by the date(s) of receipt indicated below:

	Date		Date
Addendum No. 1	_____	Addendum No. 5	_____
Addendum No. 2	_____	Addendum No. 6	_____
Addendum No. 3	_____	Addendum No. 7	_____
Addendum No. 4	_____	Addendum No. 8	_____

It is understood that failure to receive any such addendum shall not relieve the Contractor from any obligation under this IFB as submitted.

Bid Security in the amount of: _____

_____ DOLLARS (\$ _____)

as required by law, is enclosed herewith in the form of:

☐ Surety Bond (*1)	☐ Official Check (*3)
☐ Legal Tender (*2)	☐ Share Certificate (*3)
☐ Cashier's Check (*3)	☐ Teller's Check (*3)
☐ Certificate of Deposit (*3)	☐ Treasurer's Check (*3)
☐ Certified Check (*3)	

Respectfully submitted,

Name of Company, Joint Venture or Partnership

License No.

By _____
Signature (*4)

Title: _____

Date: _____

Address: _____

Telephone No.: _____

IF A CORPORATION, AFFIX CORPORATE SEAL TO SIGNATURE.

Site and Infrastructure Improvements for
Hanapēpē Residential Lots, Phase 2
IFB-23-HHL-006

Bid Offer Form
December 2022

THIS BID FORM MAY NOT BE ALTERED AND BIDDERS MAY NOT QUALIFY OR CONDITION THEIR BIDS IN ANY WAY.

PLEASE FILL OUT THE ATTACHED CERTIFICATE OF RESOLUTION GIVING EVIDENCE OF THE AUTHORITY OF THIS OFFICER TO SUBMIT BIDS ON BEHALF OF THE COMPANY.

NOTES:

- *1. Surety bond underwritten by a company licensed to issue bonds in this State;
- *2. Legal tender; or
- *3. A certificate of deposit; share certificate; or cashier's, treasurer's, teller's, or official check accepted by, and payable on demand to the State by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation of the National Credit Union Administration.
 - A. These instruments may be utilized only to a maximum of \$100,000.
 - B. If the required security or bond amount totals over \$100,000, more than one instrument not exceeding \$100,000 each and issued by different financial institutions shall be accepted.
- *4. Please attach to this page evidence of the authority of this officer to submit bids on behalf of the Company, and also the names and residence addresses of all officers of the Company.
- *5. Fill in all blank spaces with information asked for or bid may be invalidated. BID MUST BE INTACT; MISSING PAGES MAY INVALIDATE YOUR BID.

CERTIFICATE OF RESOLUTION

I, _____, Secretary of _____, a Hawaii Corporation, do hereby certify that the following is a full, true and correct copy of a resolution duly adopted by the Board of Directors of said Corporation, at its meeting duly called and held at the office of the Corporation _____, Hawaii, on _____ day of _____, 20____, at which a quorum was present and acting throughout; and that said resolution has not been modified, amended or rescinded and continues in full force and effect.

“RESOLVED that any individual at the time holding the position(s) of _____, be, and each of them hereby is, authorized to execute on behalf of the Corporation any bid, proposal or contract for the sale or rental of the products of the Corporation or for the services to be performed by the Corporation and to execute any bond required by any such bid, proposal or contract with the United States Government or the State of Hawaii or the City and County of Honolulu, or any County of Municipal Government of said State, or any department or subdivision of any of them.”

IN WITNESS THEREOF, I have hereunto set my hand and affixed the corporate seal of said

_____ this _____ day of _____, 20____.

Secretary

END OF BID

DRAWING INDEX

DRAWING NUMBER	DRAWING TITLE
T-1	TITLE SHEET
T-2	INDEX OF DRAWINGS AND ABBREVIATIONS
CIVIL	
C-001 TO C-004	CIVIL NOTES
C-100 TO C-101	EXISTING CONDITIONS PLAN
C-102	DEMOLITION PLAN
C-103 TO C-104	OVERALL EROSION AND SEDIMENT CONTROL PLAN
C-105	TYPICAL SECTIONS
C-106	OVERALL SITE PLAN
C-107 TO C-108	OVERALL GRADING PLANS
C-109	GRADING PHASING PLAN
C-110 TO C-111	OVERALL DRAINAGE PLANS
C-112 TO C-113	OVERALL SEWER PLANS
C-114	OVERALL WATER PLAN
C-115 TO C-116	EROSION AND SEDIMENT CONTROL PLANS
C-117 TO C-118	SITE PLANS
C-119 TO C-120	SIGNAGE AND PAVEMENT MARKING PLANS
C-121 TO C-126	GRADING AND DRAINAGE PLANS
C-127	GRADE ADJUSTMENT WALLS PLAN
C-128 TO C-129	RAMP DETAILED GRADING PLANS
C-201 TO C-203	ROAD A AND DRAINLINE A PLAN AND PROFILES
C-204	ROAD B AND DRAINLINE PLAN AND PROFILE
C-205	AHI ROAD DRAINLINE PLAN AND PROFILE
C-205A	ALII ROAD DRAINLINE PLAN AND PROFILE
C-211 TO C-213	DRAINLINE B PLAN AND PROFILES
C-214	DRAINLINE C AND D PLAN AND PROFILE
C-215	BASIN PLAN AND PROFILE
C-216 TO C-217	DRAIN LATERAL PROFILES
C-221 TO C-222	SEWERLINE A PLAN AND PROFILES
C-223	SEWERLINE B PLAN AND PROFILE
C-224 TO C-226	SEWERLINE C PLAN AND PROFILES
C-231 TO C-233	WATERLINE A PLAN AND PROFILES
C-234	WATERLINE B PLAN AND PROFILE
C-235	WATERLINE C PLAN AND PROFILE
C-236	FIRE HYDRANT PROFILES
C-301 TO C-302	GRADING SECTIONS
C-400	TRAFFIC CONTROL PLAN
C-501	EROSION AND SEDIMENT CONTROL DETAILS
C-502	CIVIL DETAILS
C-503 TO C-506	DRAINAGE DETAILS
C-507 TO C-508	SEWER DETAILS
C-509 TO C-515	WATER DETAILS
ELECTRICAL	
E-100	LOCATION MAP, SYMBOL LIST AND ABBREVIATIONS
E-101	GENERAL NOTES AND EQUIPMENT SCHEDULE
E-102	KIUC AND HTCO NOTES
E-103	HTCO NOTES
E-104	CATV NOTES
E-105	SANDWICH ISLES COMMUNICATIONS CONSTRUCTION NOTES
E-200	OVERALL SITE PLAN
E-201 TO E-205	ELECTRICAL DISTRIBUTION PLANS
E-206 TO E-210	STREET LIGHT PLANS
E-300	TYPICAL TRENCHING DETAILS AND CONDUIT SCHEDULE
E-301	TYPICAL DUCT SECTIONS
E-400	ELECTRICAL LAYOUT DETAILS
E-401 TO E-402	KIUC HANDHOLE DETAILS
E-403	CATV POWER SUPPLY DETAILS
E-404	STREET LIGHT DETAILS
E-405	STREET LIGHT EQUIPMENT DETAILS
E-500 TO E-501	STREET LIGHT ONE-LINE DIAGRAMS

ABBREVIATIONS

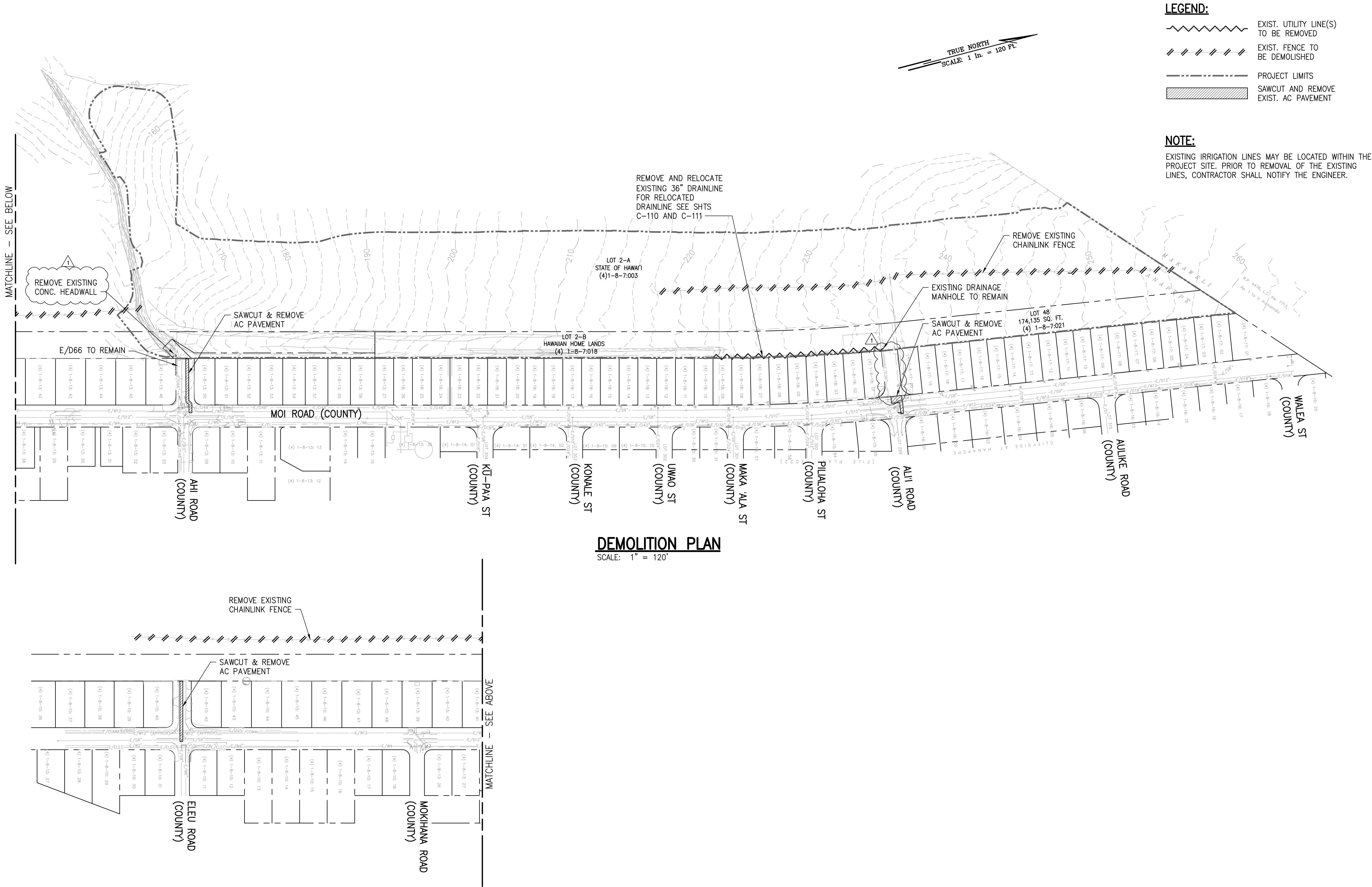
AASHTO	ASPHALT CONCRETE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	MAG MAX	MAGNETIC MAXIMUM
AGGR	AGGREGATE	MECH	MECHANICAL
ALIGN	ALIGNMENT	MH	MANHOLE
APPROX	APPROXIMATE	MJ	MECHANICAL JOINT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL	MIN	MINIMUM
AZ	AZIMUTH	MON	MONUMENT
		MPH	MILES PER HOUR
		MSL	MEAN SEA LEVEL
		MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
B	BASELINE		
BM	BENCH MARK		
BMP	BEST MANAGEMENT PRACTICE		
BOT	BOTTOM	N	NORTH
BT	BACK TANGENT	N.D.	NOMINAL DIAMETER
BW	BOTTOM OF WALL	N/A	NOT APPLICABLE
BSW	BEGIN SWALE	NIC, N.I.C.	NOT IN CONTRACT
		NOS.	NUMBERS
C	CENTERLINE	NSF	NATIONAL SANITATION FOUNDATION
CCH	CITY AND COUNTY OF HONOLULU	NTS	NOT TO SCALE
CI	CAST IRON		
CLR	CLEARANCE	O.C.	ON CENTER
COMM	COMMUNICATIONS	O/S	OFFSET
CONC	CONCRETE	O.A.	ON CENTER
CONST	CONSTRUCTION	OD	OUTSIDE DIAMETER
CU	CUBIC	OU	OVERHEAD UTILITY LINE
CY	CUBIC YARD		
		P	PROPERTY LINE
Δ	DELTA	PC	POINT OF CURVE
*	DEGREE(S)	PE	PUSH-ON END
DHHL	DEPARTMENT OF HAWAIIAN HOMELANDS	PI	POINT OF INTERSECTION
DET	DETAIL	POC	POINT OF CONNECTION
DI	DUCTILE IRON	PRV	PRESSURE REDUCING VALVE
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PT	POINT OF TANGENT
DWGS	DRAWINGS	PVI	POINT OF VERTICAL INTERSECTION
DWS	DEPARTMENT OF WATER SUPPLY		
DWY	DRIVEWAY	QTY	QUANTITY
E.F.	EACH FACE	R	RADIUS
E.W.	EACH WAY	REINF	REINFORCE, REINFORCING
EG	EXISTING GROUND	RM	ROOM
E/D	EXISTING DRAIN	ROW, R/W	RIGHT-OF-WAY
E, ELEC	ELECTRIC / ELECTRICITY	RPM	RAISED PAVEMENT MARKER
EL, ELEV	ELEVATION	RT	RIGHT
ESMT	EASEMENT	S	SLOPE
ESW	END SWALE	SD	STORM DRAIN
EXIST	EXISTING	SDMH	STORM DRAIN MANHOLE
FA	FIRE ALARM	S.F.	SQUARE FEET
FCMH	FLOW CONTROL MANHOLE	SHLDOR	SHOULDER
FDC	FIRE DEPARTMENT CONNECTION	SHT	SHEET
FFE	FINISH FLOOR ELEVATION	SIG	SIGNAL
FG	FINISH GRADE	SMH	SEWER MANHOLE
FH	FIRE HYDRANT	SPEC	SPECIFICATION
FIN	FINISH, FINISHED	SQ	SQUARE
FL	FIRELINE / FLANGE JOINT	SST	STAINLESS STEEL
FOC	FACE OF CURB	ST	STREET
FRP	FIBERGLASS REINFORCED PLASTIC	STA	STATION
FT	FOOT, FEET	STD	STANDARD
GDI	GRADED DRAIN INLET	T	TANGENT DISTANCE
GP	GUARD POST	T&B	TOP & BOTTOM
G.I.	GALVANIZED IRON	T.O.	TURNOUT
GND	GROUND	TBM	TEMPORARY BENCH MARK
GW	GUY WIRE	TC	TOP FACE OF CURB
		GOVERN.	THICK
H, HORIZ	HORIZONTAL	TG	TOP OF GRATE
HAR	HAWAI' ADMINISTRATIVE RULES	TMK	TAX MAP KEY
HDOT	HIGHWAYS DEPARTMENT OF TRANSPORTATION	TP	TOP OF PAVEMENT
HSS	HAWAI' STANDARD SPECIFICATIONS	TRAV	TRAVERSE
HWY	HIGHWAY	TS	TANGENT TO SPIRAL
		TSB	TRAFFIC SIGNAL BOX
ID	INSIDE DIAMETER	TT	TOP OF TILE
IN	INCHES	TW	TOP OF WALL
INV	INVERT	TYP.	TYPICAL
IRR	IRRIGATION	UG	UNDERGROUND
		UP	UTILITY POLE
JT(S)	JOINT(S)	V	VELOCITY
K	ALGEBRAIC DIFFERENCE	VERT	VERTICAL
		VIF	VERIFY IN FIELD
L	LENGTH		
LB(S)	POUND(S)	W/ W	WITH WEST
LT	LEFT	YD	YARD

APPROVED:

FOR MANAGER AND CHIEF ENGINEER, DEPT. OF WATER
COUNTY OF KAUAI

PRINTED: 12/6/22

T-2



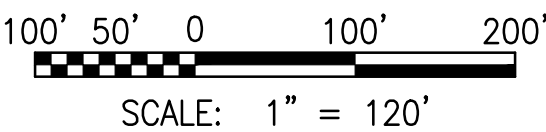
LEGEND:

- EXIST. UTILITY LINE(S) TO BE REMOVED
- EXIST. FENCE TO BE DEMOLISHED
- PROJECT LIMITS
- SAWCUT AND REMOVE EXIST. AC PAVEMENT

NOTE:

EXISTING IRRIGATION LINES MAY BE LOCATED WITHIN THE PROJECT SITE. PRIOR TO REMOVAL OF THE EXISTING LINES, CONTRACTOR SHALL NOTIFY THE ENGINEER.

GRAPHIC SCALE:



PROJECT: DEPARTMENT OF HAWAIIAN HOME LANDS
SITE AND INFRASTRUCTURE IMPROVEMENTS
FOR HANAPEPE RESIDENTIAL LOTS, PHASE 2
TMK: (4) 1-8-007: 003 (PORTION) & (4) 2-8-007: 001 TO 050 (PORTION)
Hanalei, Kauai, Hawaii

DEMOLITION PLAN

DATE: NOVEMBER 2022
SHEET NUMBER

C-102

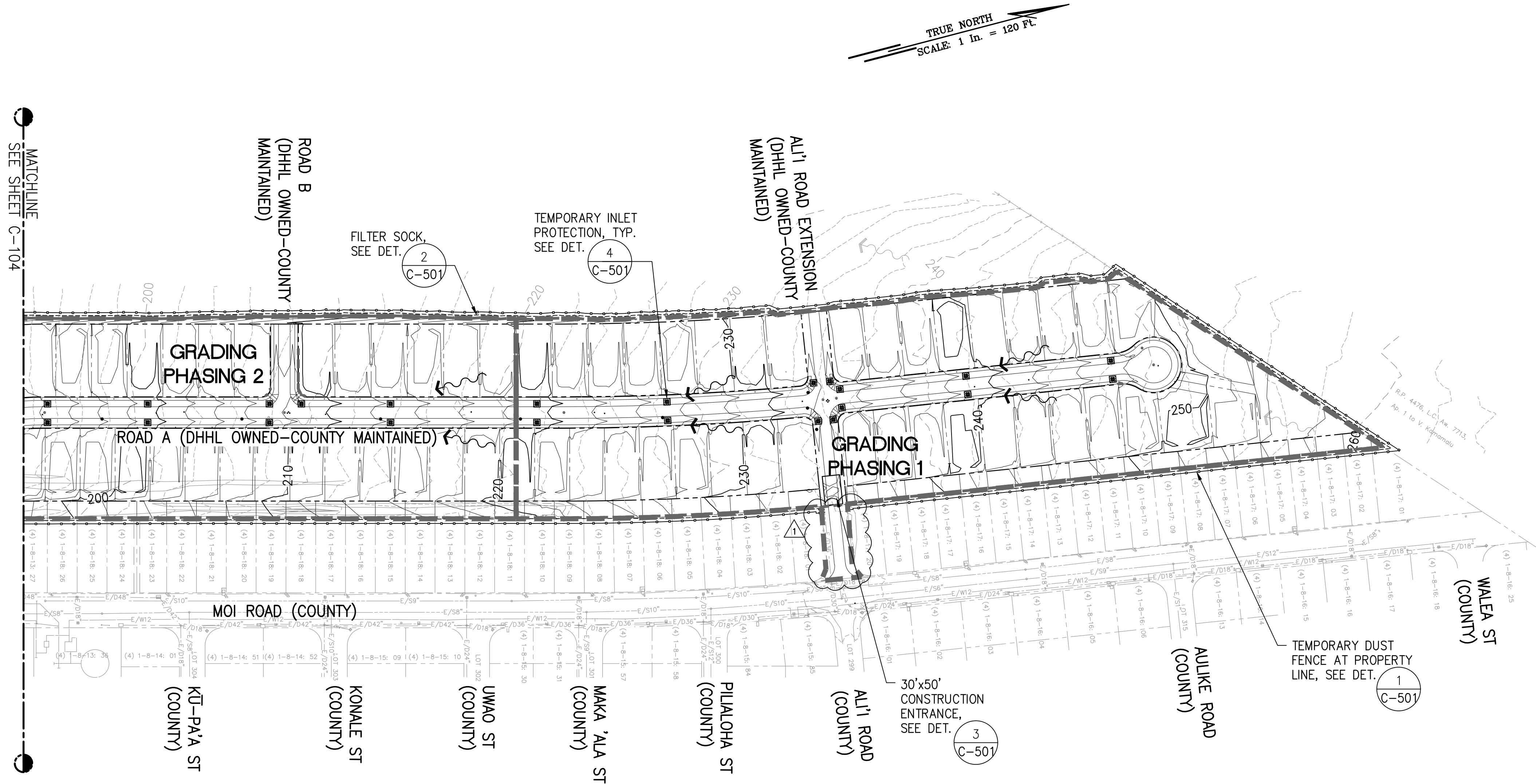
REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
1	12/05/22	ADDENDUM 4		

SSFM International, Inc.
501 Summer Street
Suite 620
Honolulu, Hawaii 96817

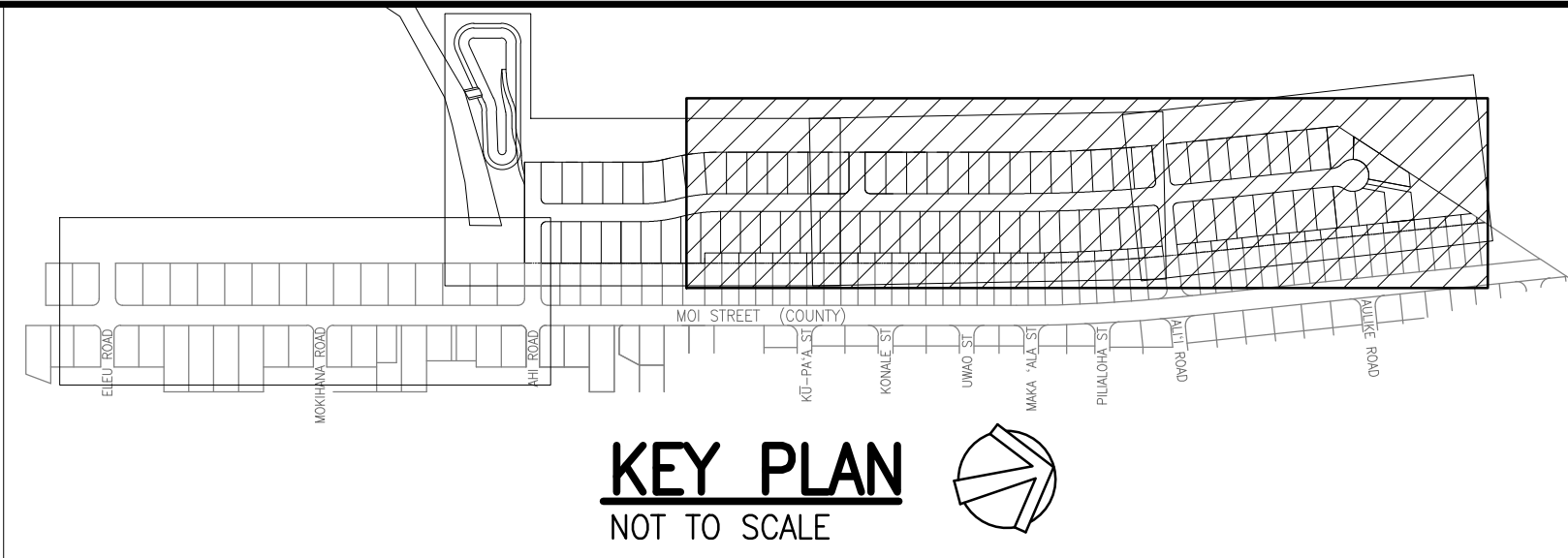
The work was prepared by me or under my supervision and I am a duly Licensed Professional Engineer in the State of Hawaii. I am not providing any services outside the scope of my license. I am not providing any services outside the scope of my license. I am not providing any services outside the scope of my license.

4/30/24
Signature: [Signature]
Title: [Title]

NOTE: Contractor to check and verify dimensions of job before proceeding with work.



OVERALL EROSION AND SEDIMENT CONTROL PLAN - 1
SCALE: 1" = 120'

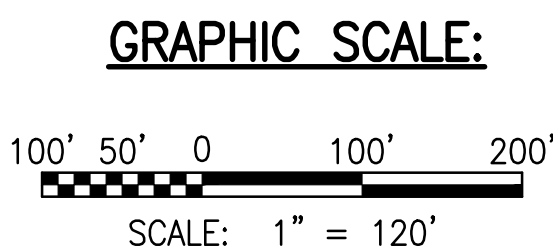


LEGEND:

- CONSTRUCTION INGRESS/EGRESS
- PROPERTY LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- LIMITS OF GRADING AND DISTURBANCE
- FILTER SOCK PERIMETER CONTROL
- TEMPORARY CONSTRUCTION FENCE
- GRADING PHASING LIMITS
- TEMPORARY INLET PROTECTION
- EXISTING RUNOFF DIRECTION
- PROPOSED RUNOFF DIRECTION

NOTES:

- FOR DETAILED EROSION AND SEDIMENT CONTROL PLAN, SEE SHEETS C-115 AND C-116.
- BMP PLAN IS CONCEPTUAL IN NATURE. CONTRACTOR TO ADJUST PLAN AS REQUIRED FOR PHASING OF PROJECT.
- FOR GRADING PHASING PLAN, SEE SHEET C-109.

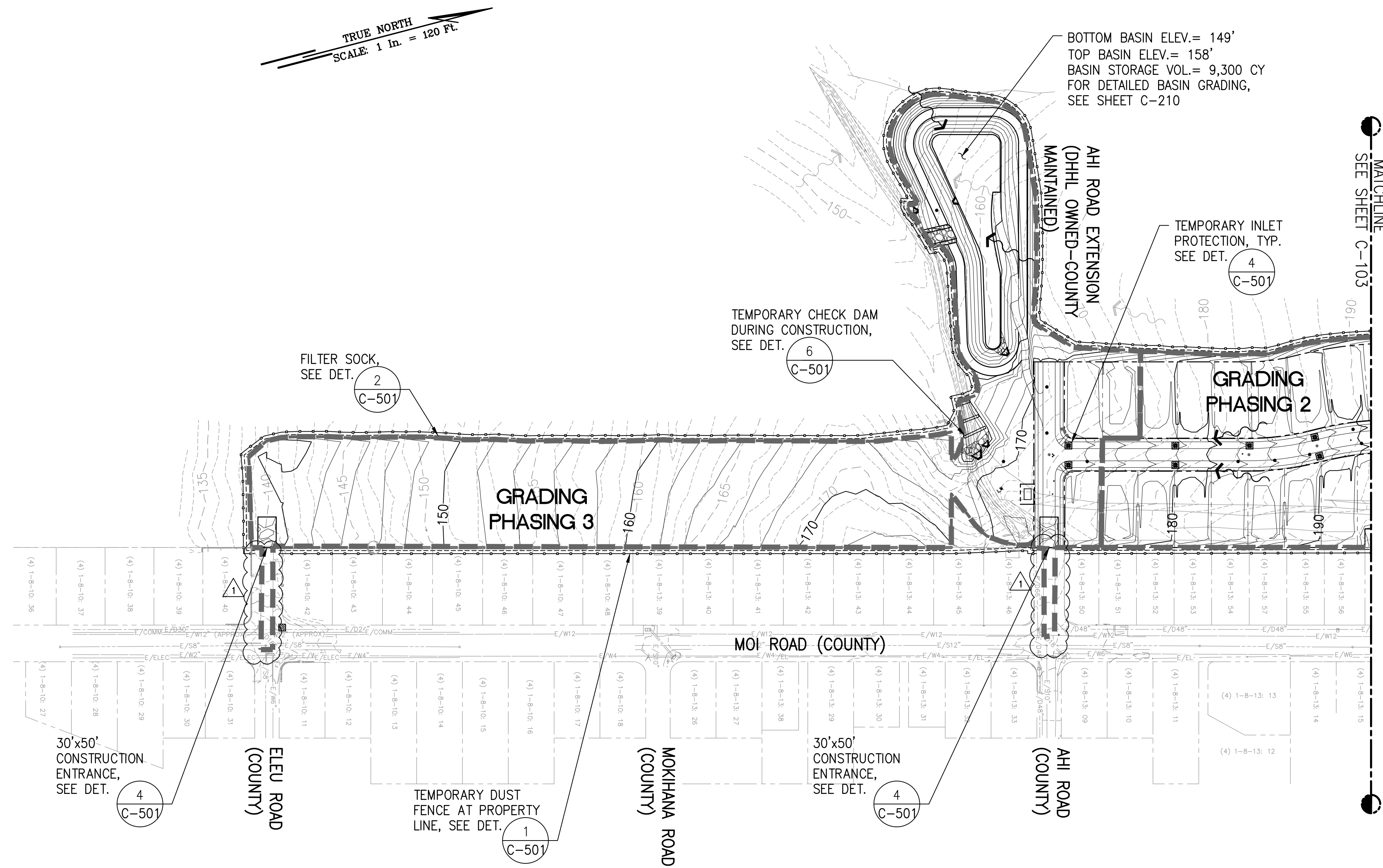


PROJECT: DEPARTMENT OF HAWAIIAN HOME LANDS SITE AND INFRASTRUCTURE IMPROVEMENTS FOR HANAPEPE RESIDENTIAL LOTS, PHASE 2 TMK: (4) 1-8-007: 003 (PORTION) & (4) 2-8-007: 001 TO 050 (PORTION) Hanapepe, Waimea, Kauai, Hawaii		REVISION: 1 12/05/22 ADDENDUM 4 DESCRIPTION MADE BY APPROVED	
OVERALL EROSION AND SEDIMENT CONTROL PLAN - 1		DATE: NOVEMBER 2022	
SHEET NUMBER: C-103		10 OF 109 SHEETS	

THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO SSFM INTERNATIONAL, INC. AND IS FURNISHED IN CONFIDENCE FOR THE LIMITED PURPOSE OF EVALUATION. IT IS NOT TO BE REPRODUCED OR DISCLOSED TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF SSFM INTERNATIONAL, INC.

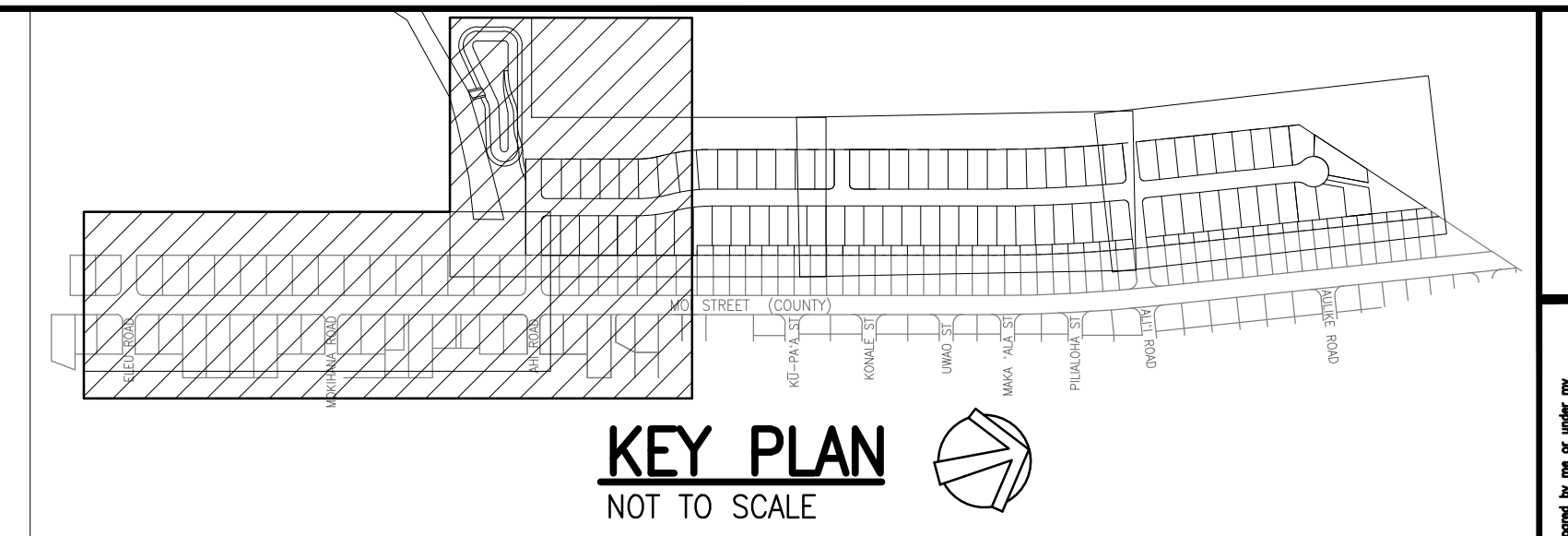
SSFM International, Inc.
501 Summer Street
Suite 620
Honolulu, Hawaii 96817

4/30/24
signature
NOTES: Contractor to check and verify dimensions of job before proceeding with work.



OVERALL EROSION AND SEDIMENT CONTROL PLAN – 2

SCALE: 1" = 120'

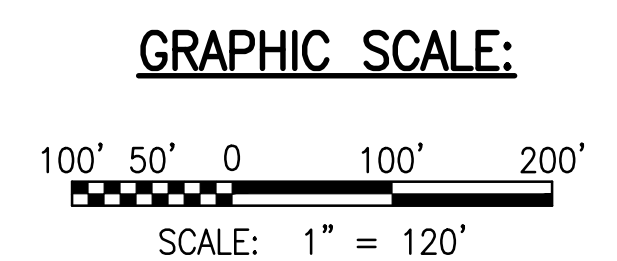


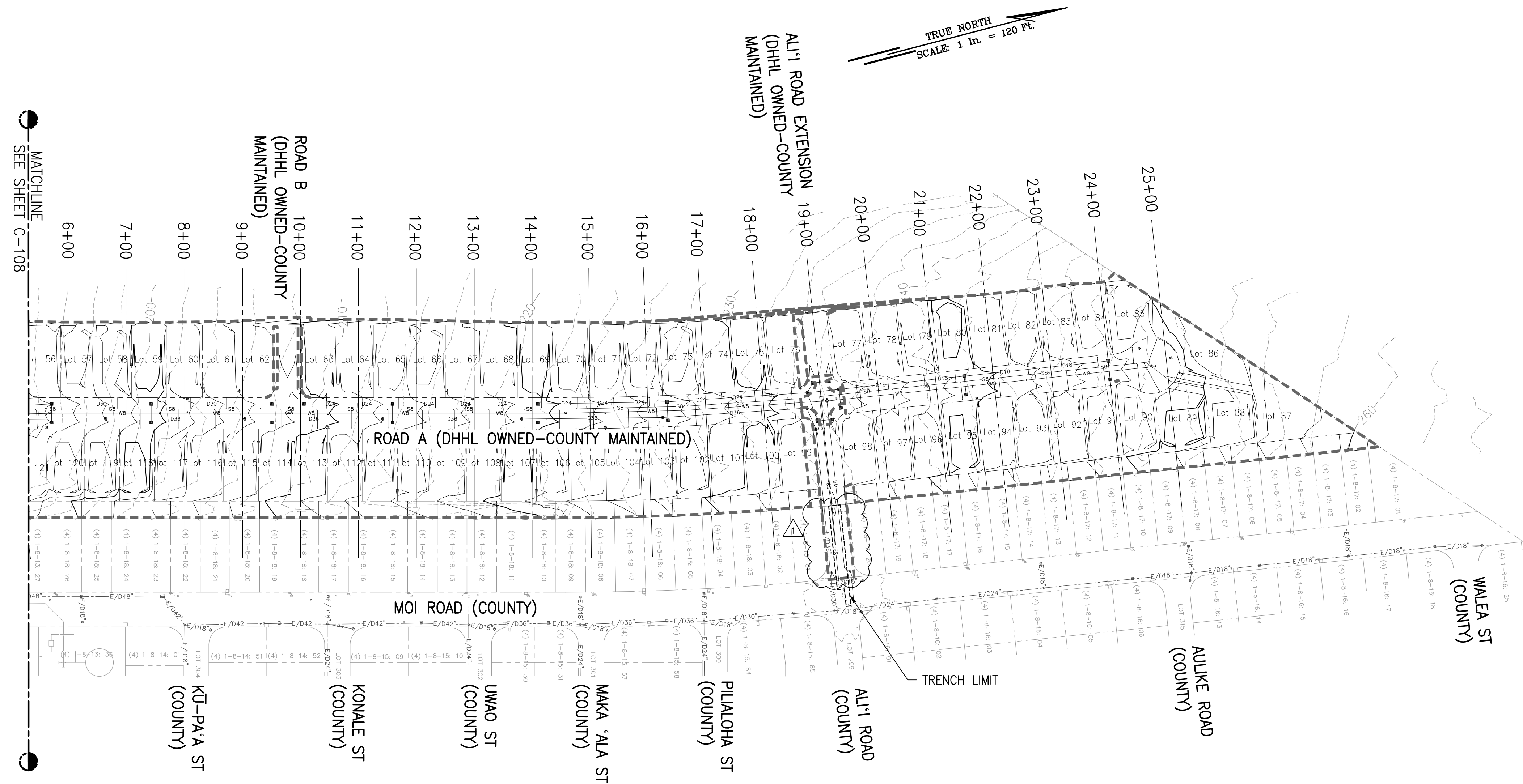
LEGEND:

- | | |
|---|-----------------------------------|
|  | CONSTRUCTION INGRESS/EGRESS |
|  | PROPERTY LINE |
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOURS |
|  | LIMITS OF GRADING AND DISTURBANCE |
|  | FILTER SOCK PERIMETER CONTROL |
|  | TEMPORARY CONSTRUCTION FENCE |
|  | GRADING PHASING LIMITS |
|  | TEMPORARY INLET PROTECTION |
|  | TEMPORARY CHECK DAM |
|  | EXISTING RUNOFF DIRECTION |
|  | PROPOSED RUNOFF DIRECTION |

NOTES:

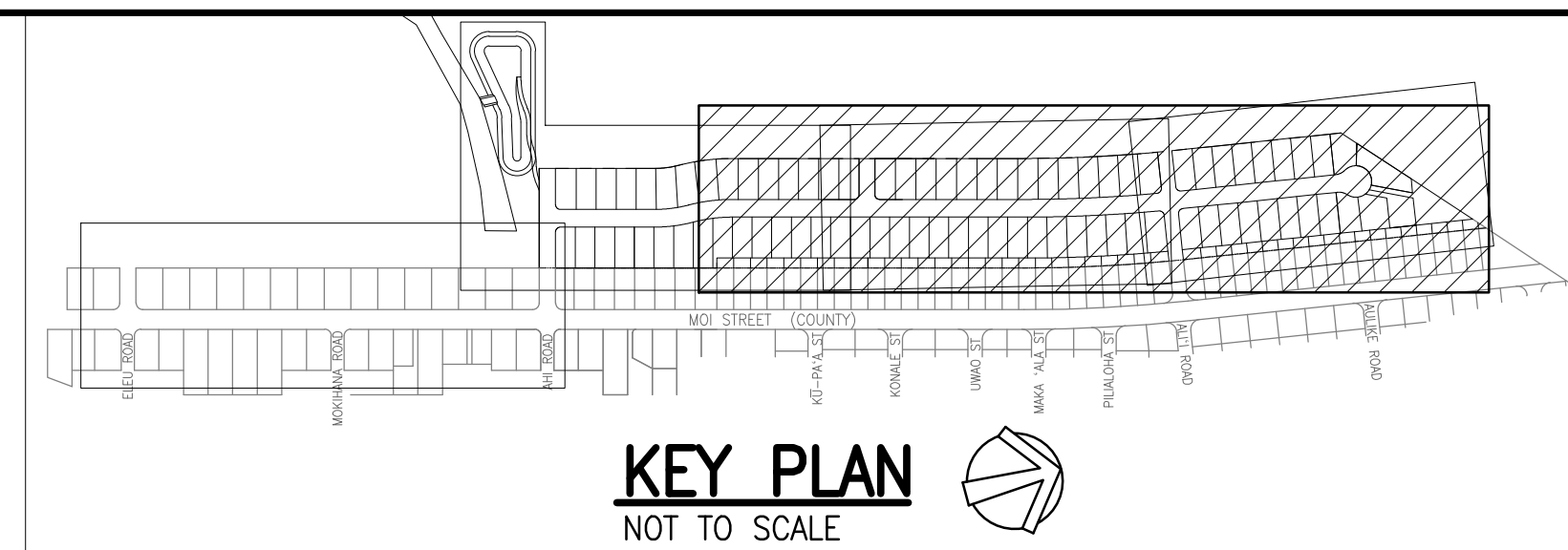
1. FOR DETAILED EROSION AND SEDIMENT CONTROL PLAN, SEE SHEETS C-115 AND C-116.
2. BMP PLAN IS CONCEPTUAL IN NATURE. CONTRACTOR TO ADJUST PLAN AS REQUIRED FOR PHASING OF PROJECT.
3. FOR GRADING PHASING PLAN, SEE SHEET C-109.





OVERALL GRADING PLAN – 1

SCALE: 1" = 120'



LEGEND:

----	PROPERTY LINE
-----705-----	EXISTING CONTOURS
—————705—————	PROPOSED CONTOURS
---E/218---	EXIST. DRAINLINE
—————D36—————	DRAINLINE
-----	LIMITS OF GRADING AND DISTURBANCE
■	GRADED DRAIN INLET (GDI)
○	STORM DRAIN MANHOLE (SDMH)
⊕	SEWER MANHOLE (SMH)
⦿	FIRE HYDRANT

EARTHWORK SUMMARY:

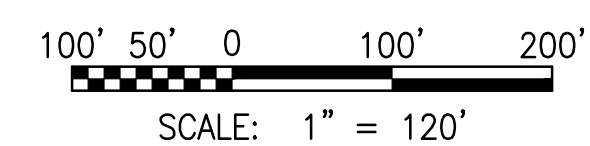
AREA TO BE GRADED	1,215,750 SF (27.91 AC)
AREA TO BE DISTURBED	1,216,621 SF (27.93 AC)
EXCAVATION	33,700 CY (CUT) 
EMBANKMENT	41,749 CY (FILL)
NET 	8,049 CY (FILL)

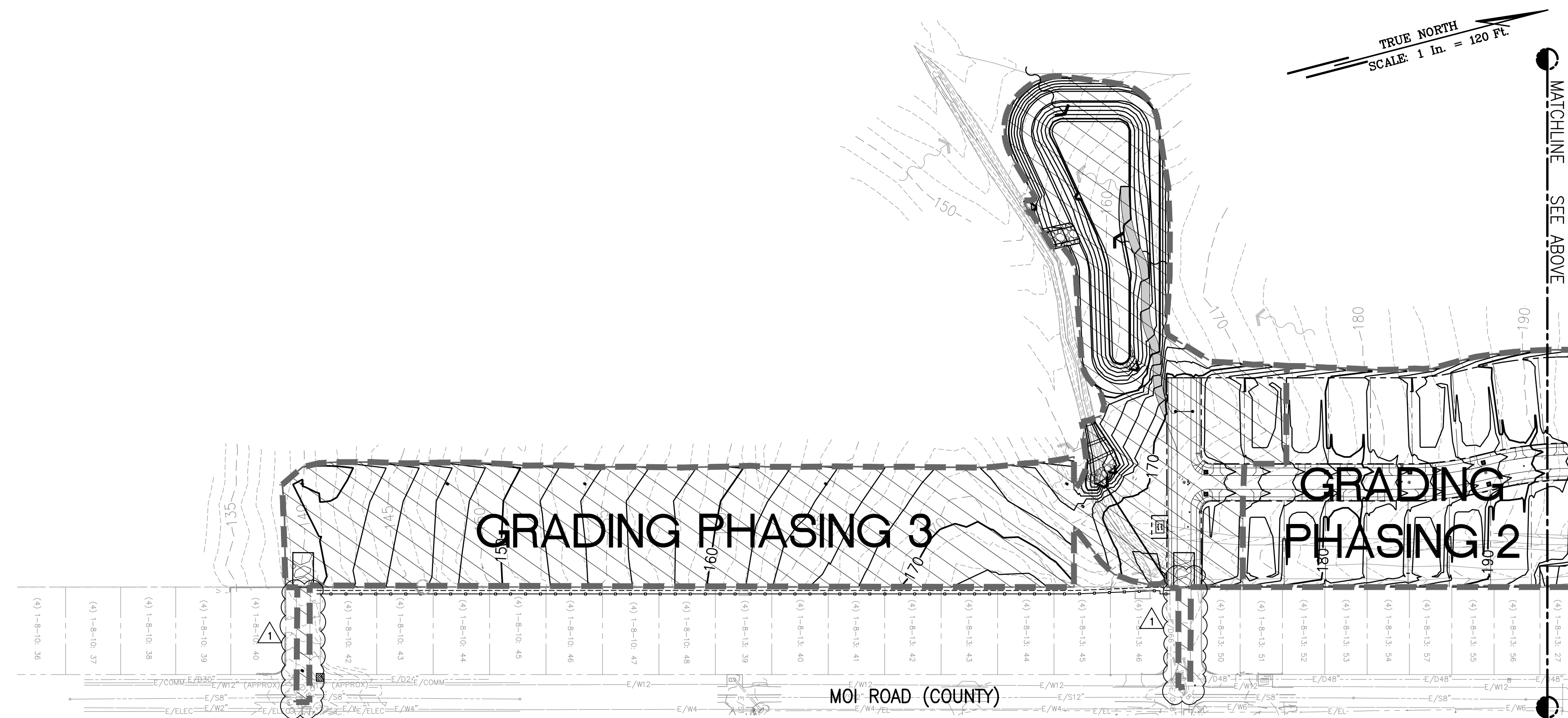
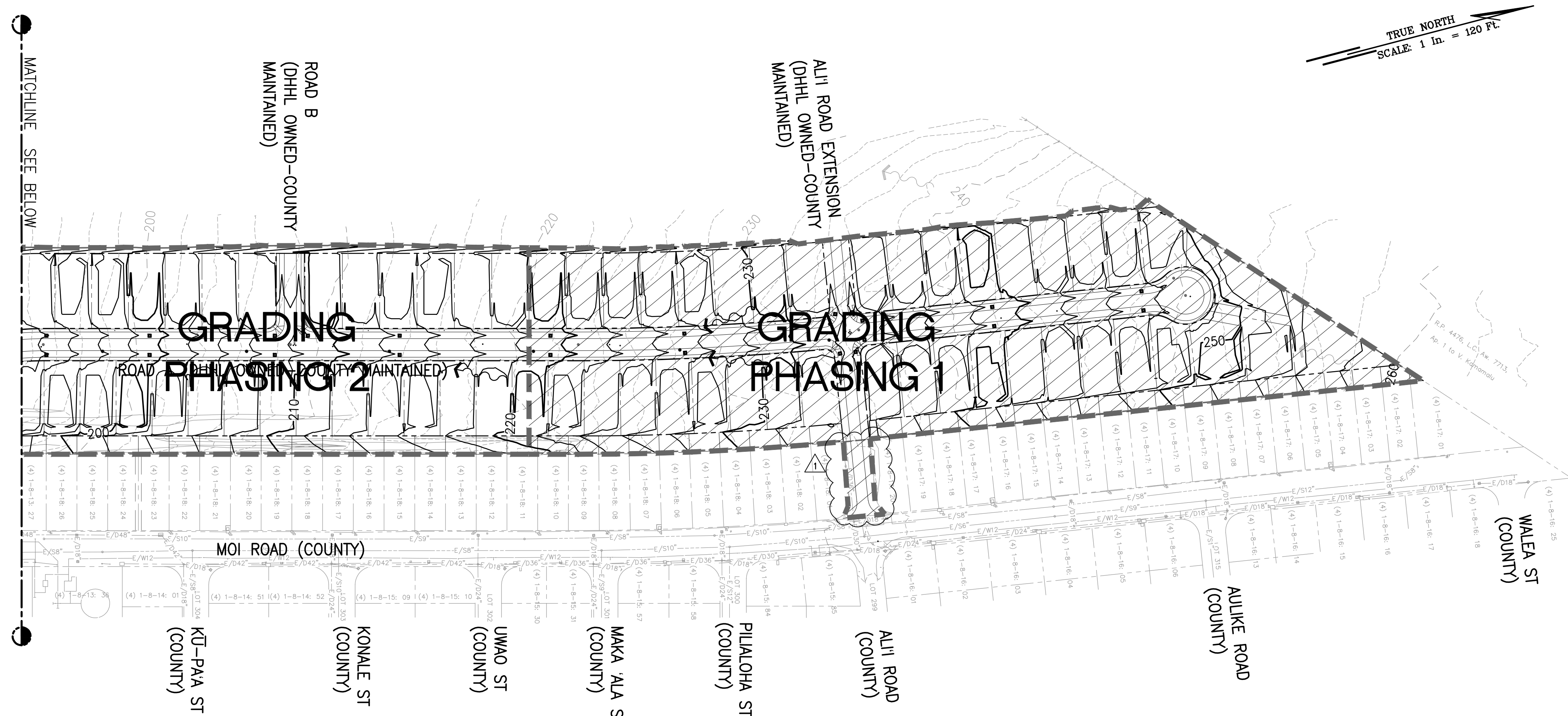
QUANTITIES SHOWN ARE FOR THE COUNTY GRADING PERMIT PURPOSE ONLY AND DO NOT INCLUDE TRENCH OR STRUCTURAL EXCAVATION AND BACKFILL. THE CONTRACTOR SHALL VERIFY ALL EARTHWORKS QUANTITIES FOR THEIR BIDDING PURPOSES.

NOTES:

1. FOR DETAILED GRADING AND DRAINAGE PLANS, SEE SHEETS C-121 AND C-126
2. FOR GRADING SECTIONS, SEE SHEETS C-301 AND C-302

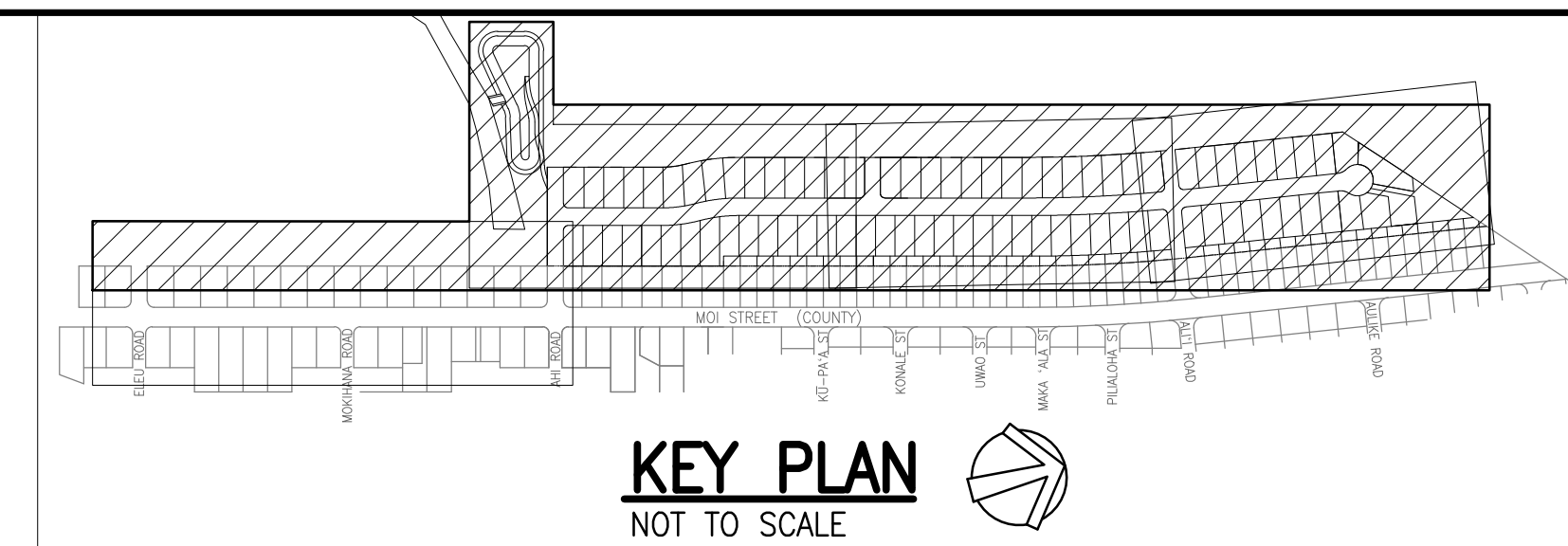
GRAPHIC SCALE:

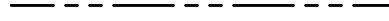
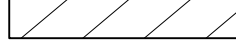
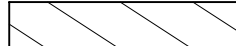




GRADING PHASING PLAN

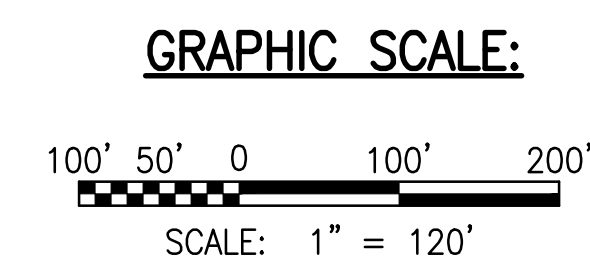
SCALE: 1" = 120'



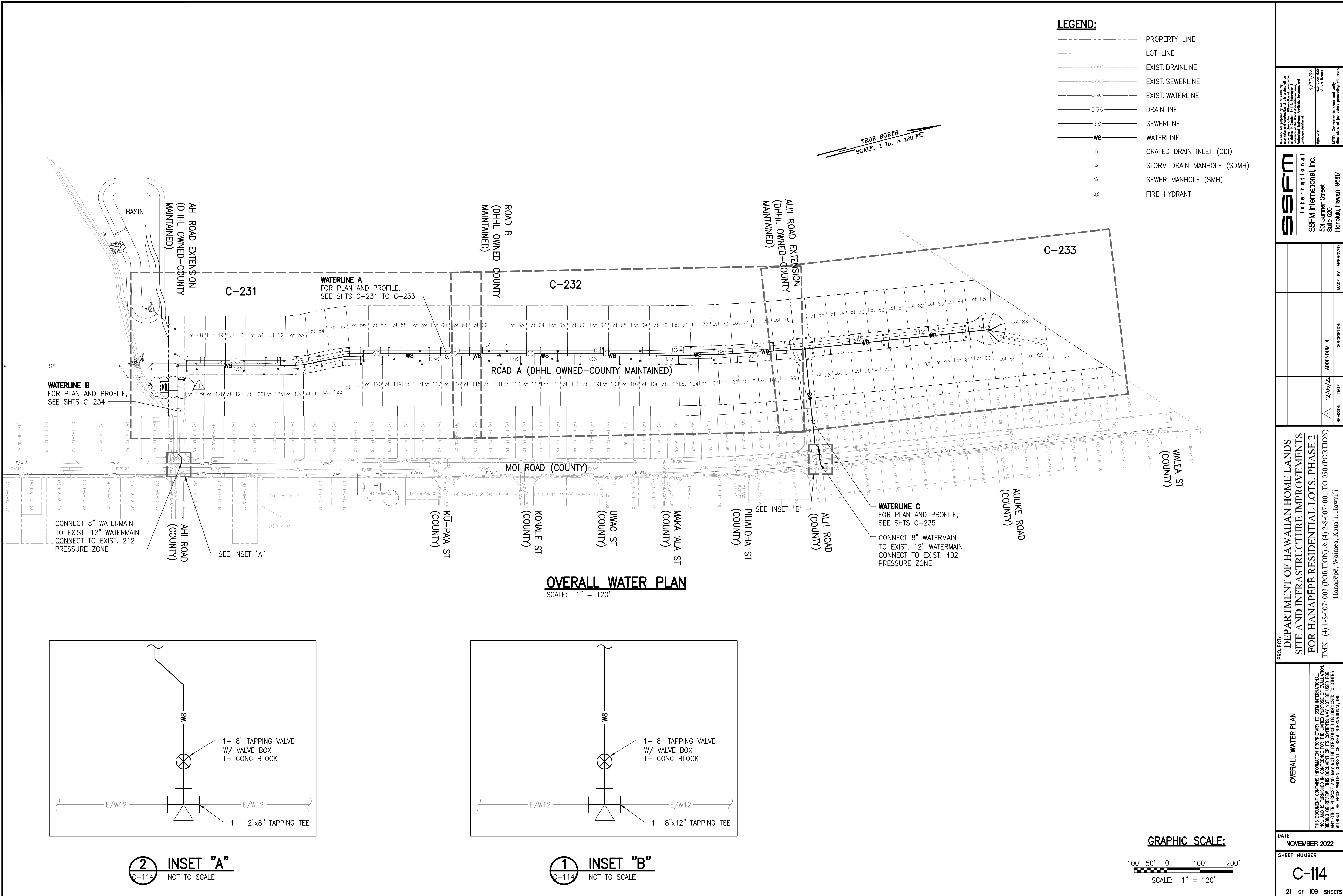
- ### LEGEND:
- | | |
|---|------------------------------|
|  | PROPERTY LINE |
|  | RIGHT-OF-WAY |
|  | EXISTING MAJOR CONTOUR |
|  | EXISTING MINOR CONTOUR |
|  | PROPOSED MAJOR CONTOUR |
|  | PROPOSED MINOR CONTOUR |
|  | LIMITS OF GRADING |
|  | GRADING PHASING LIMITS |
|  | GRADING PHASE 1 (9.85 ACRES) |
|  | GRADING PHASE 2 (9.74 ACRES) |
|  | GRADING PHASE 3 (8.18 ACRES) |

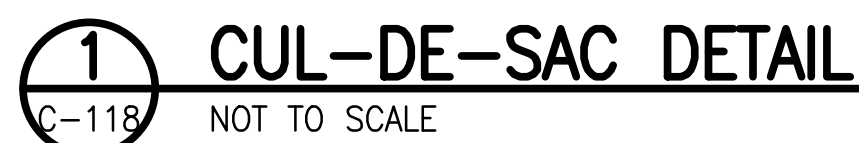
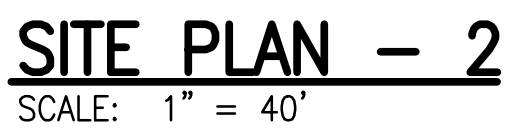
NOTE:
GRADING AND GRUBBING SHALL BE DONE IN PHASES AND LIMITED TO 10 ACRES MAXIMUM PER PHASE. CONTRACTOR TO ADJUST BMP PLAN AS REQUIRED FOR PHASING PROJECT.

APPROXIMATE EARTHWORK			
GRADING PHASE	AREA (ACRES)	CUT (CY)	FILL (CY)
1 	9.99	13,920±	4,950±
2	9.74	3,340±	20,020±
3 	8.20	16,440±	16,780±



W:_CIVIL_3D_PROJECTS\2018_02\01.DHHL HANAPEPE RESIDENTIAL SUBDIVISION PHASE 2\01 CE DWG\C-114 OVERALL WATER PLAN.DWG 12/5/2022 9:28 AM BBROWN





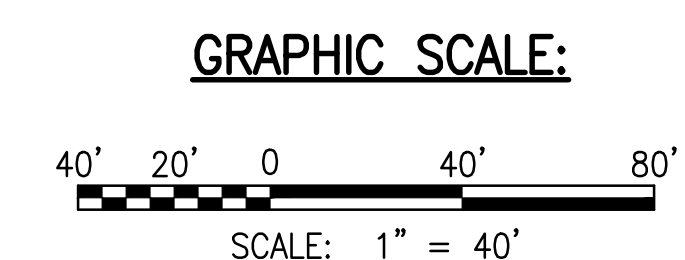
- | | |
|---|--------------------------------|
|  | PROPERTY LINE |
|  | LOT LINE |
|  | ASPHALTIC CONCRETE
PAVEMENT |
|  | CONCRETE
SIDEWALK/DRIVEWAY |
|  | GRASSED SWALE |

NOTES:

1. FOR ROADWAY TYPICAL SECTIONS, SEE SHEET C-105.
2. FOR RAMP DETAILED GRADING, SEE SHEET C-128.
3. FOR GRADE ADJUSTMENT WALL, SEE SHEETS C-127 AND C-502.
4. FOR CENTERLINE STREET MONUMENT, SEE DPW STD DETAIL R-14.
5. FOR BENCHMARK LOCATIONS, SEE SHEET C-106.

BASELINE TIES

- | | |
|----|--|
| 1. | BM NO. 2 BACKSIGHT TO BM NO. 3
188°37'58" AT 1074.97' |
| 2. | BM NO. 2 BACKSIGHT TO BM NO. 1
13°24'34" AT 1118.06' |
| 3. | BM NO. 2 TO ALI1 ROAD EXT. $\frac{1}{4}$ STA. 0+00
98°38'27" AT 156.16' |
| 4. | BM NO. 2 TO INTERSECTION RD A $\frac{1}{4}$ STA. 19+02.64
= ALI1 ROAD EXT. $\frac{1}{4}$ STA. 1+82.90
98°38'13" AT 339.50' |
| 5. | BM NO. 2 TO ALI1 ROAD EXT. $\frac{1}{4}$ STA. 3+34.90
98°38'09" AT 491.51' |



This work was prepared by me or under my direct supervision and to the best of my knowledge and belief, the work complies with the provisions of the Code of Ordinances of the City of Chicago, Illinois, under my observation. (Observation of construction as defined in Chapter 18-115, Subchapter 1, Section 18-115-01 of the Municipal Code of Chicago.)

Definitions of the Board Administrative Rules, Regulations and Procedures:
Professional Engineers, Architects, Surveyors, and Landscape Architects

4/30/24
expiration date of the license

signature

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

SSFM
International
SSFM International, Inc.
501 Summer Street
Suite 620
Honolulu, Hawaii 96817

[illegible][illegible][illegible][illegible]

PROJECT: DEPARTMENT OF HAWAIIAN HOME LANDS
SITE AND INFRASTRUCTURE IMPROVEMENTS
FOR HANAPEPE RESIDENTIAL LOTS, PHASE 2
TMK: (4) 1-8-007: 003 (PORTION) & (4) 2-8-007: 001 TO 050 (PORTION)
HANAPEPE, Waimāna, KAUAI, Hawai'i

SITE PLAN - 2

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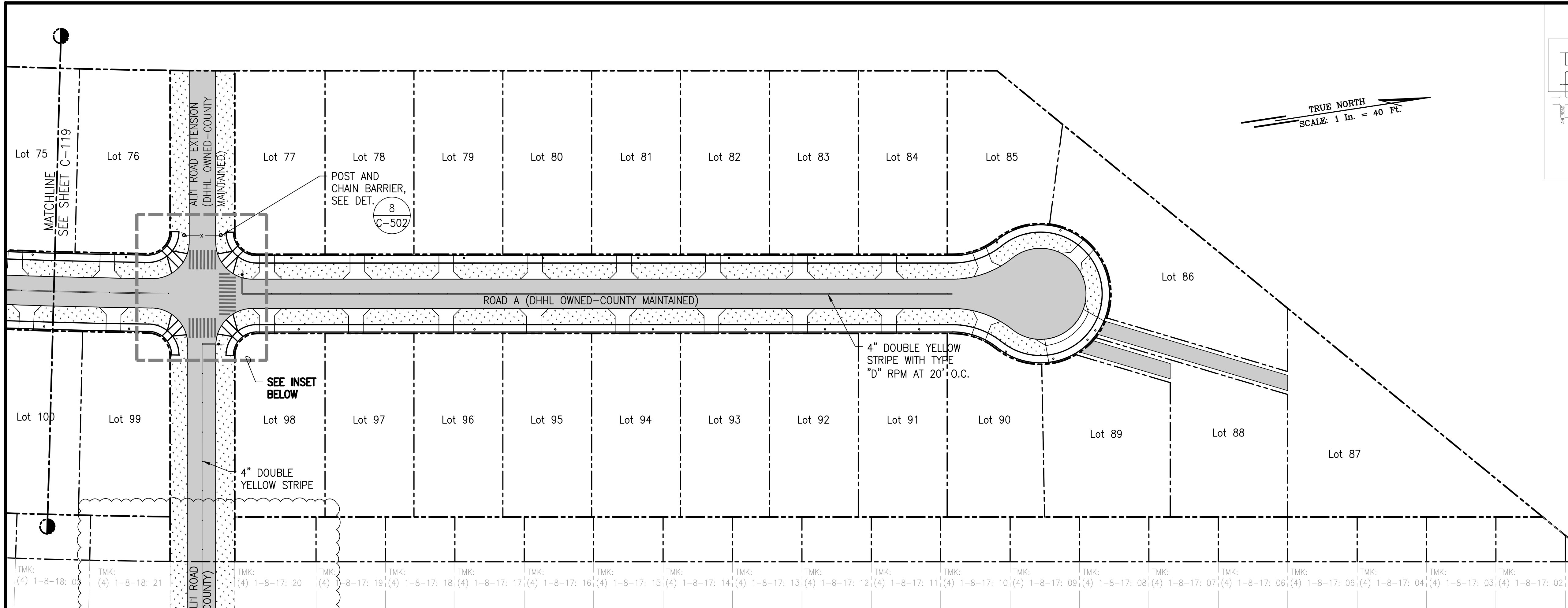
DATE
NOVEMBER 2022

SHEET NUMBER

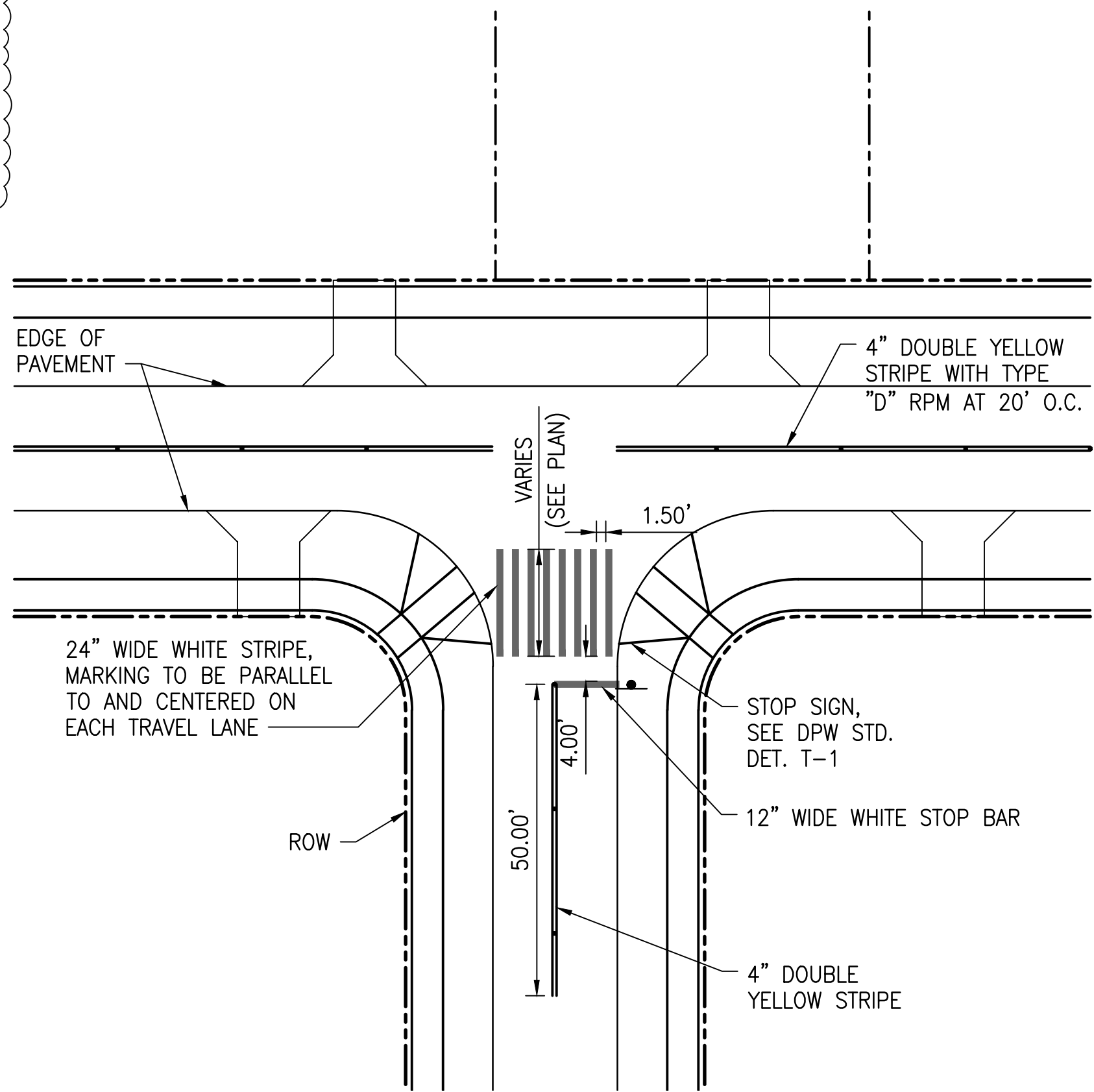
C-118

25 OF 109 SHEETS

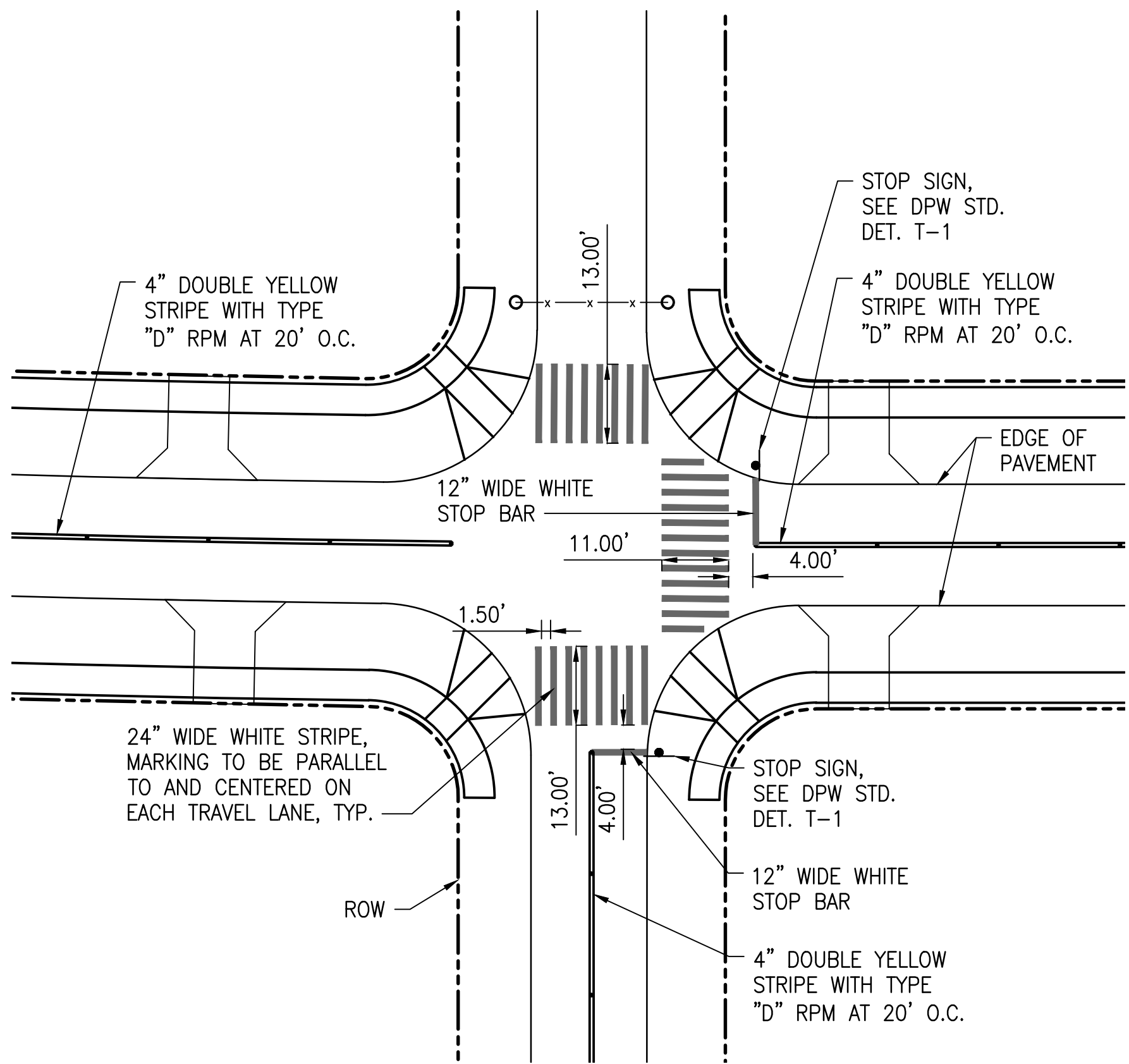
W:\CIVIL_3D PROJECTS\2018_021.001 DHHL HANAPEPE RESIDENTIAL SUBDIVISION PHASE 2\01 CE DWG\C-119 - C-120 SIGNING AND PAVEMENT MARKING PLANS.DWG 12/6/2022 9:49 AM BBROWN



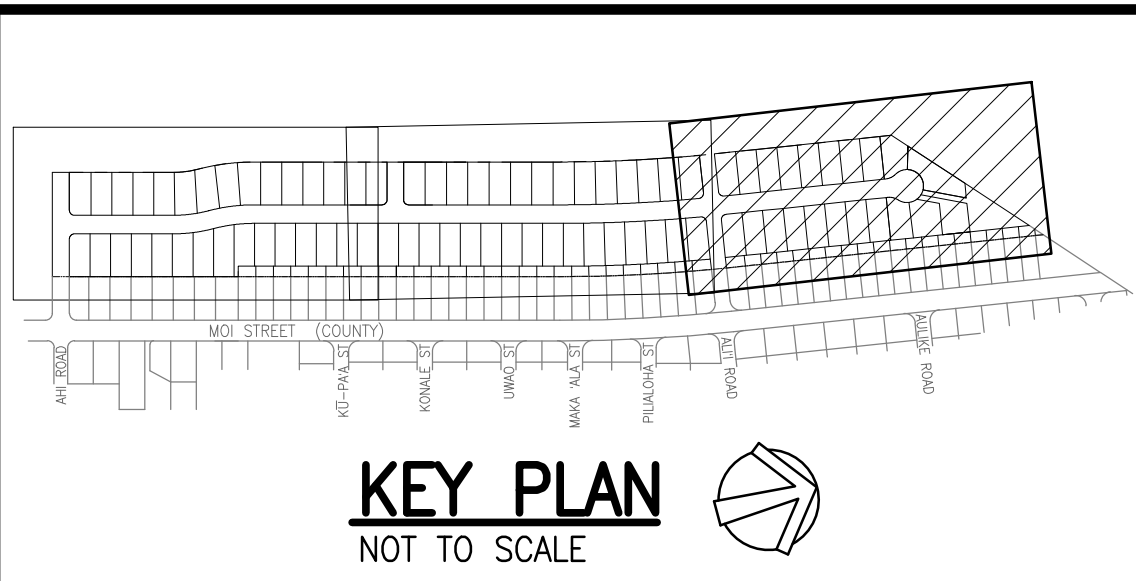
SIGNAGE AND PAVEMENT MARKING PLAN - 2
SCALE: 1" = 40'



1 TYPICAL INTERSECTION STRIPING DETAIL
C-120 NOT TO SCALE



2 INSET
C-120 NOT TO SCALE

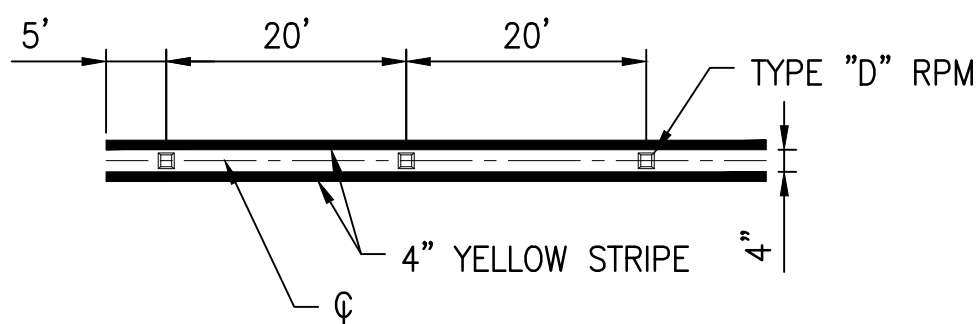


LEGEND:

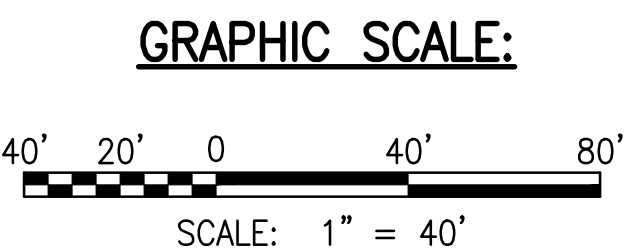
- PROPERTY LINE
- TMK: LINE

NOTES:

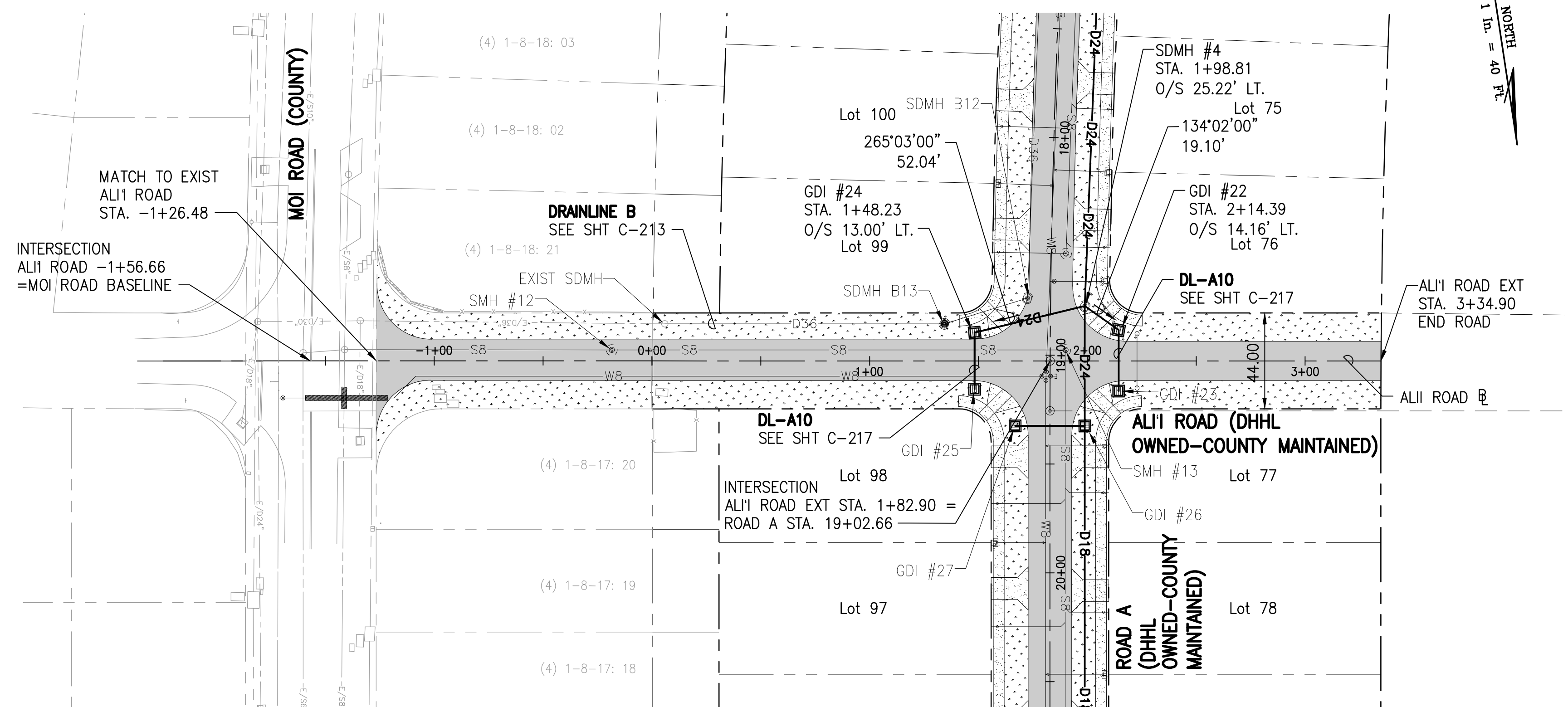
- FOR TYPICAL INTERSECTION STRIPING AND SIGNAGE DETAIL, SEE DETAIL ON THIS SHEET.
- ALL STRIPING SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- ALL TRAFFIC PAINT SHALL BE REFLECTORIZED AND SHALL BE APPROVED BY THE ENGINEER.



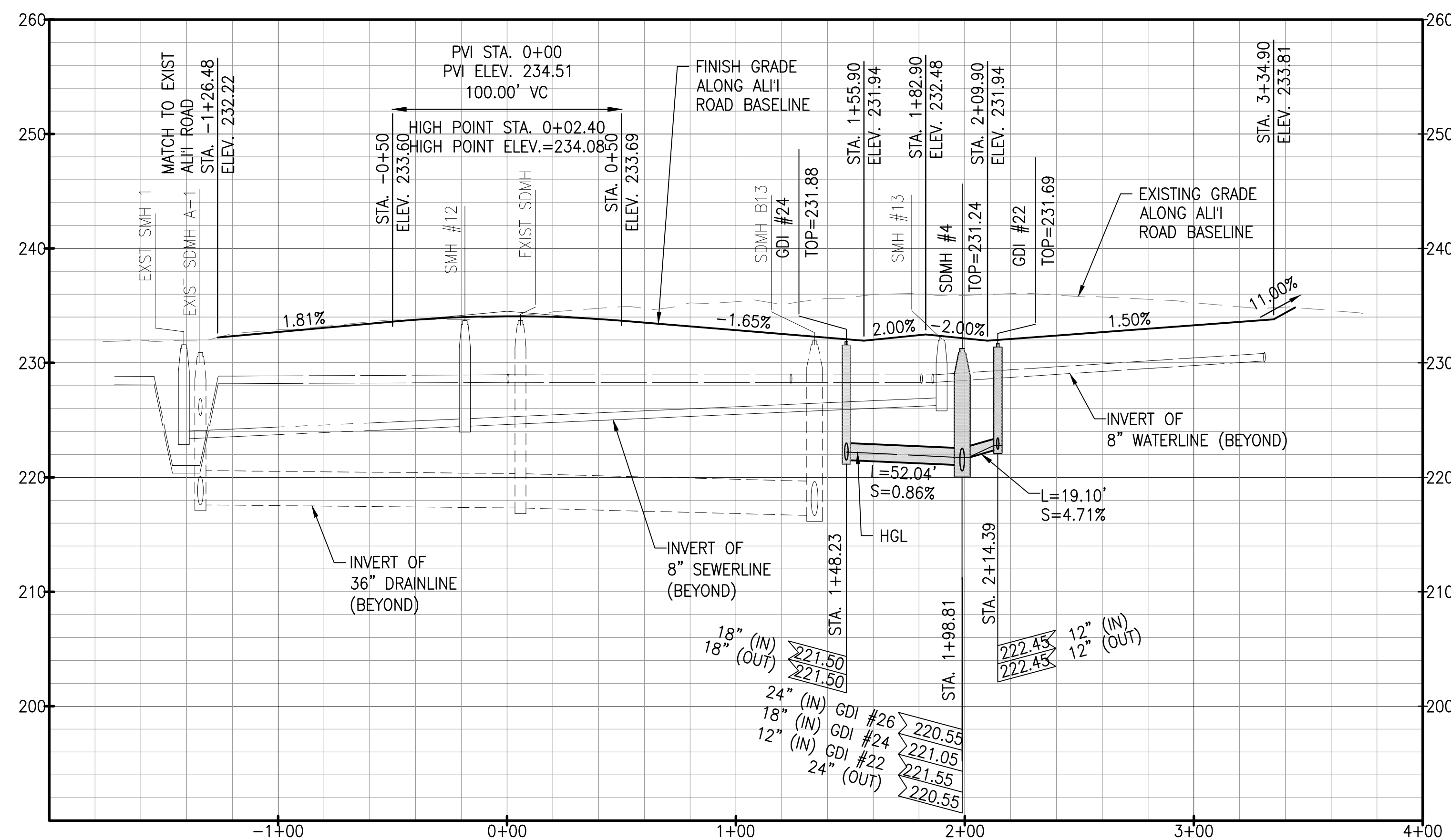
TYPICAL DOUBLE YELLOW STRIPE WITH TYPE "D" MARKER DETAIL
C-120 NOT TO SCALE



The work was prepared by the engineer or under the supervision of the engineer as indicated on this drawing. The engineer's seal and signature are required for the drawing to be used for construction. The engineer's seal and signature are required for the drawing to be used for construction. 4/30/24 SSFM International, Inc. 501 Summer Street Suite 620 Honolulu, Hawaii 96817	
SSFM International, Inc. 501 Summer Street Suite 620 Honolulu, Hawaii 96817	
DATE	NOVEMBER 2022
SHEET NUMBER	C-120
DATE	12/05/22
REVISION	1
DESCRIPTION	ADDENDUM 4
MADE BY	APPROVED
PROJECT: DEPARTMENT OF HAWAIIAN HOME LANDS SITE AND INFRASTRUCTURE IMPROVEMENTS FOR HANAPEPE RESIDENTIAL LOTS, PHASE 2 TMK: (4) 1-8-007: 003 (PORTION) & (4) 2-8-007: 001 TO 050 (PORTION) Hanalei, Kauai, Hawaii	
SIGNAGE AND PAVEMENT MARKING PLAN - 2	
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27 OF 109 SHEETS	

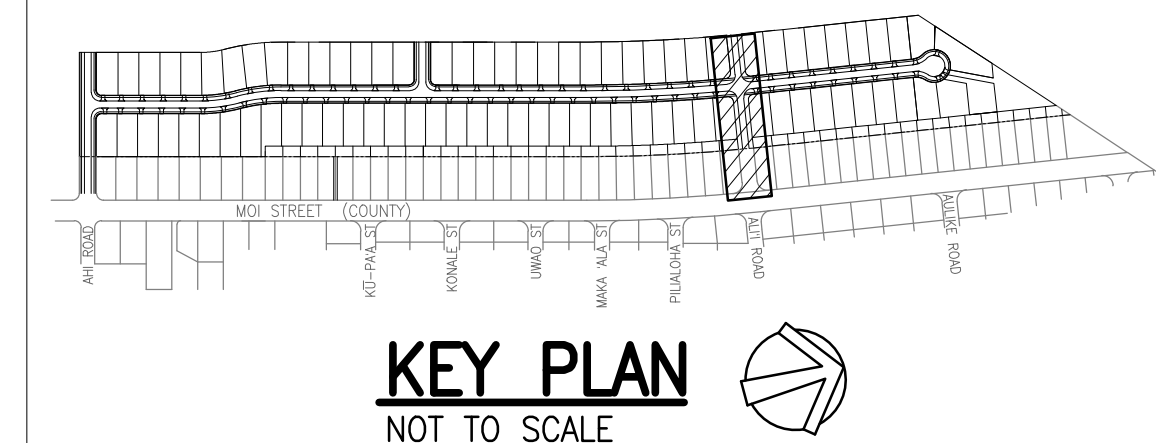


PLAN - ALI' ROAD AND DRAINLINE

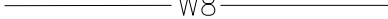


PROFILE - ALI' ROAD AND DRAINLINE

SCALE: HORIZ 1" = 40'
 VERT 1" = 8'

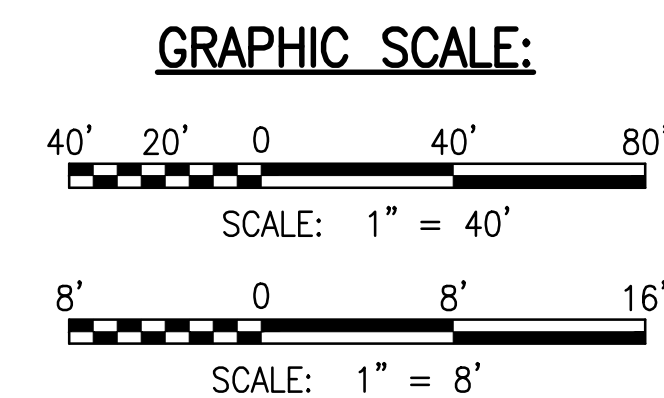


LEGEND:

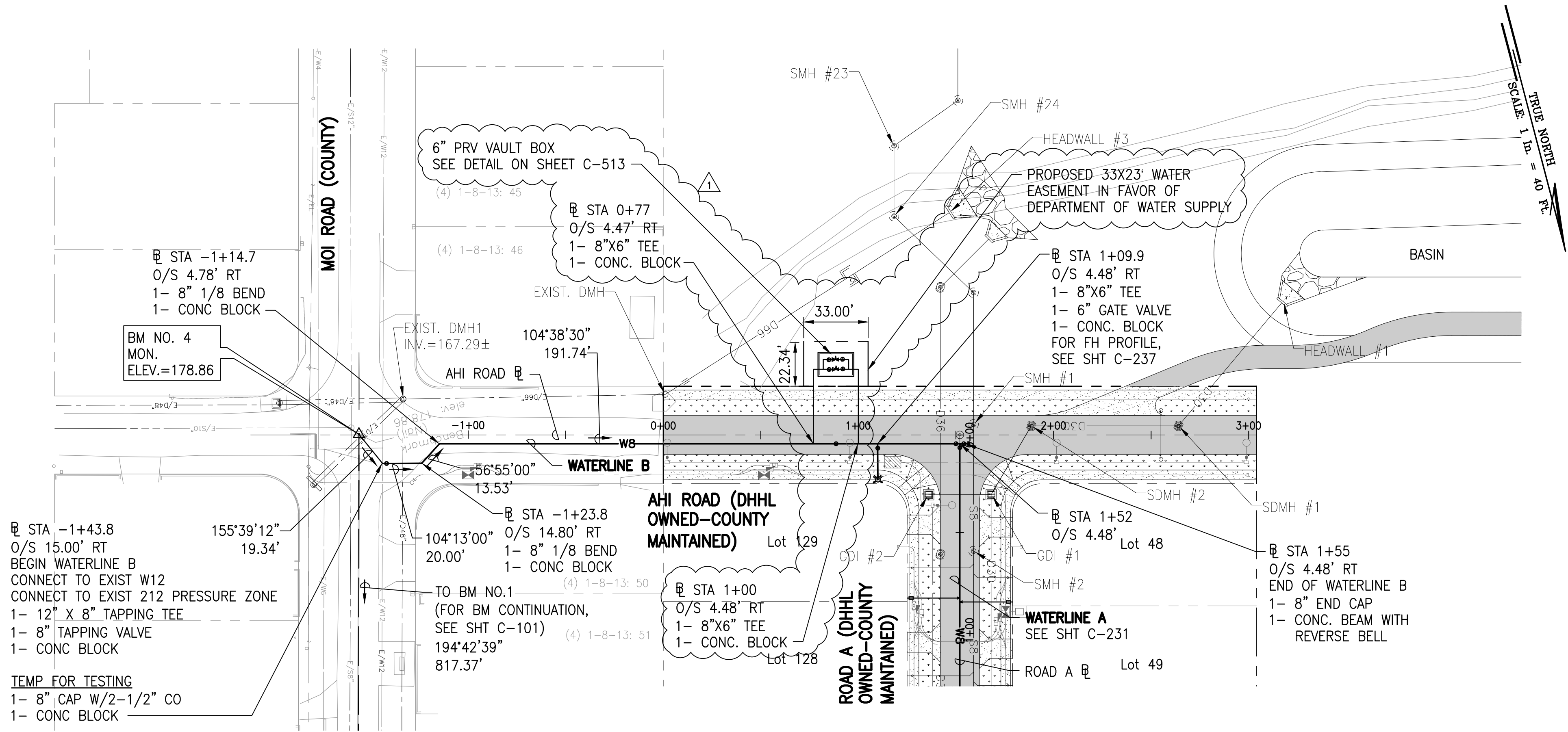
- | | |
|---|--|
|  | PROPERTY LINE |
|  | LOT LINE |
|  D36 | DRAINLINE |
|  S8 | SEWERLINE |
|  W8 | WATERLINE |
|  | GRATED DRAIN INLET
(GDI), SEE DET |
|  | STORM DRAIN MANHOLE
(SDMH), SEE DET |
|  | SEWER MANHOLE (SMH) |
|  | FIRE HYDRANT |
|  | ASPHALTIC CONCRETE PAVEMENT |
|  | CONCRETE PAVEMENT |
|  | GRASS |

NOTES:

1. FOR ROADWAY TYPICAL SECTIONS, SEE SHEET C-105.
2. FOR WATERLINE PLAN AND PROFILE, SEE SHEETS C-231 TO C-235.
3. FOR DRAINLINE B PLAN AND PROFILE, SEE SHEETS C-211 TO C-214.
4. FOR BASIN PLAN AND PROFILE, SEE SHEET C-215.
5. FOR DRAIN LATERAL PROFILES, SEE SHEET C-216 TO C-217.

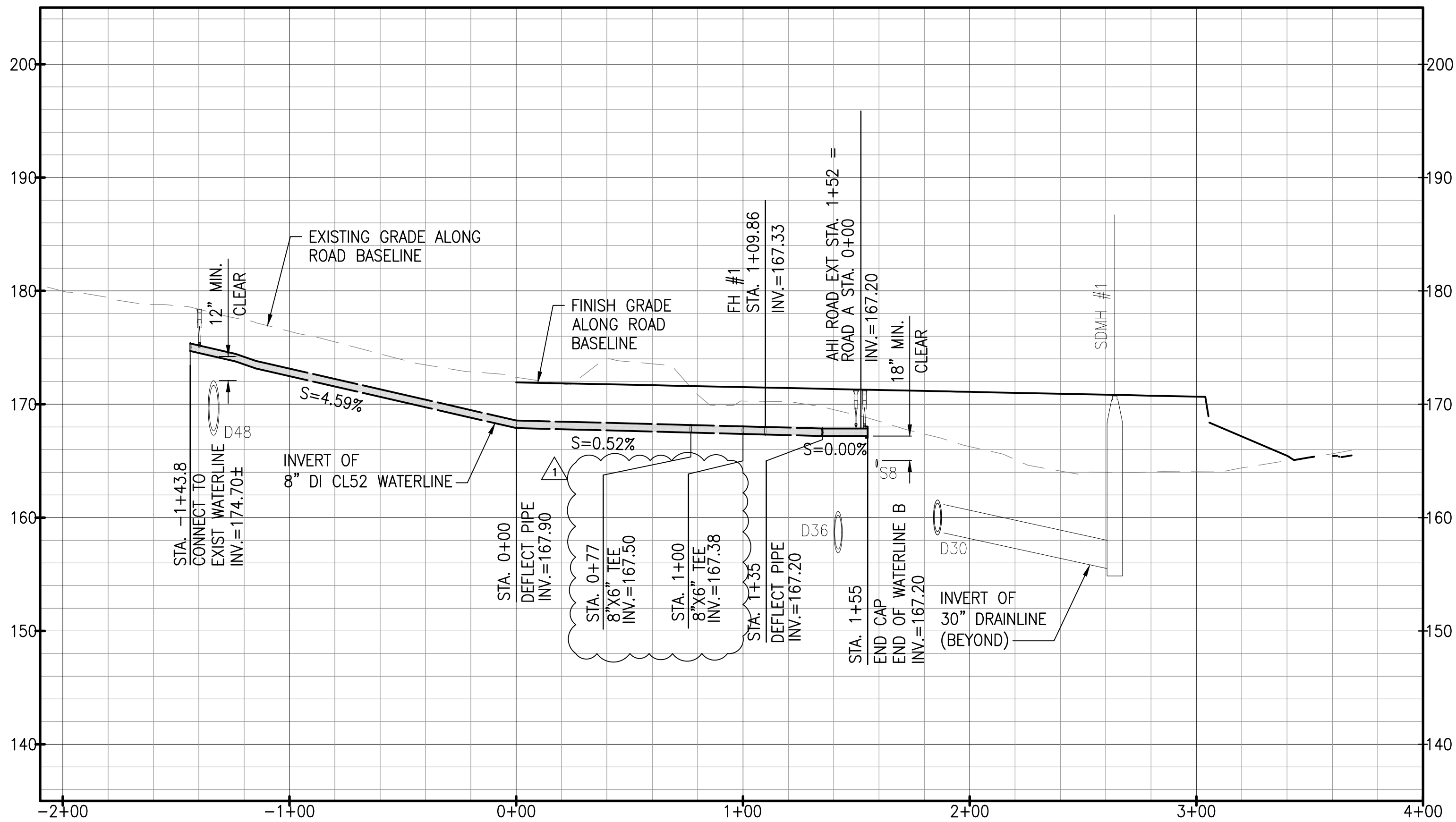


W:_CIVIL_3D PROJECTS\2018_02\01 DHHL HANAPEPE RESIDENTIAL SUBDIVISION PHASE 2\01 CE DWG\C-234 - C-235 AHI AND AHI ROAD WATERLINE PWP.DWG 12/5/2022 3:04 PM EBBROWN



PLAN - WATERLINE B

SCALE: 1" = 40'



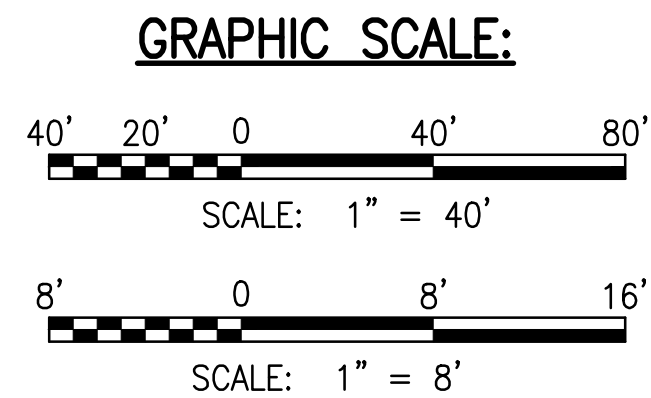
PROFILE - WATERLINE B

SCALE: HORIZ 1" = 40'
VERT 1" = 8'

APPROVED:

FOR MANAGER AND CHIEF ENGINEER, DEPT. OF WATER
COUNTY OF KAUAI

DATE

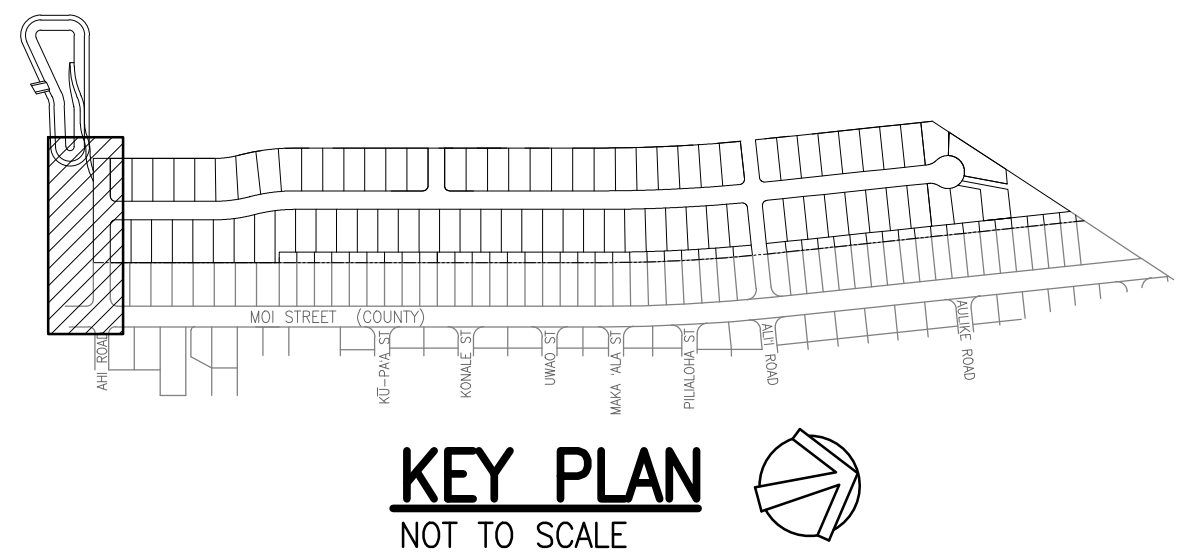


LEGEND:

- PROPERTY LINE
- LOT LINE
- DRAINLINE
- SEWERLINE
- WATERLINE
- GRATED DRAIN INLET (GDI)
- STORM DRAIN MANHOLE (SDMH)
- SEWER MANHOLE (SMH)
- FIRE HYDRANT
- SINGLE SERVICE LATERAL (SSL)
- DOUBLE SERVICE LATERAL (DSL)
- ASPHALTIC CONCRETE PAVEMENT
- CONCRETE PAVEMENT
- GRASS

NOTES:

- FOR ROADWAY TYPICAL SECTIONS, SEE SHEET C-105.
- FOR SEWERLINE PLAN AND PROFILE, SEE SHEETS C-221 TO C-226.
- FOR DRAINLINE PLAN AND PROFILE, SEE SHEET C-211 TO C-214.
- FOR BASIN PLAN AND PROFILE, SEE SHEET C-215.
- FOR DRAIN LATERAL PLAN AND PROFILE, SEE SHEET C-216.
- FOR FIRE HYDRANT PROFILES, SEE SHEET C-236.
- FOR GATE VALVE AND VALVE BOX DETAIL, SEE DET. C-512.
- FOR SINGLE SERVICE LATERALS, SEE DET. C-511.
- FOR DOUBLE SERVICE LATERALS, SEE DET. C-511.
- FOR FIRE HYDRANT CONNECTION, SEE DET. C-510.



PROJECT: DEPARTMENT OF HAWAIIAN HOME LANDS
SITE AND INFRASTRUCTURE IMPROVEMENTS
FOR HANAPEPE RESIDENTIAL LOTS, PHASE 2
TMK: (4) 1-8-007: 003 (PORTION) & (4) 2-8-007: 001 TO 050 (PORTION)
Hanapepe, Waimea, Kauai, Hawaii

WATERLINE B PLAN AND PROFILE

DATE: NOVEMBER 2022
SHEET NUMBER: C-234
58 OF 109 SHEETS

SSFM International, Inc.
501 Summer Street
Suite 620
Honolulu, Hawaii 96817

ADDENDUM 4
12/05/22

REVISION

DATE

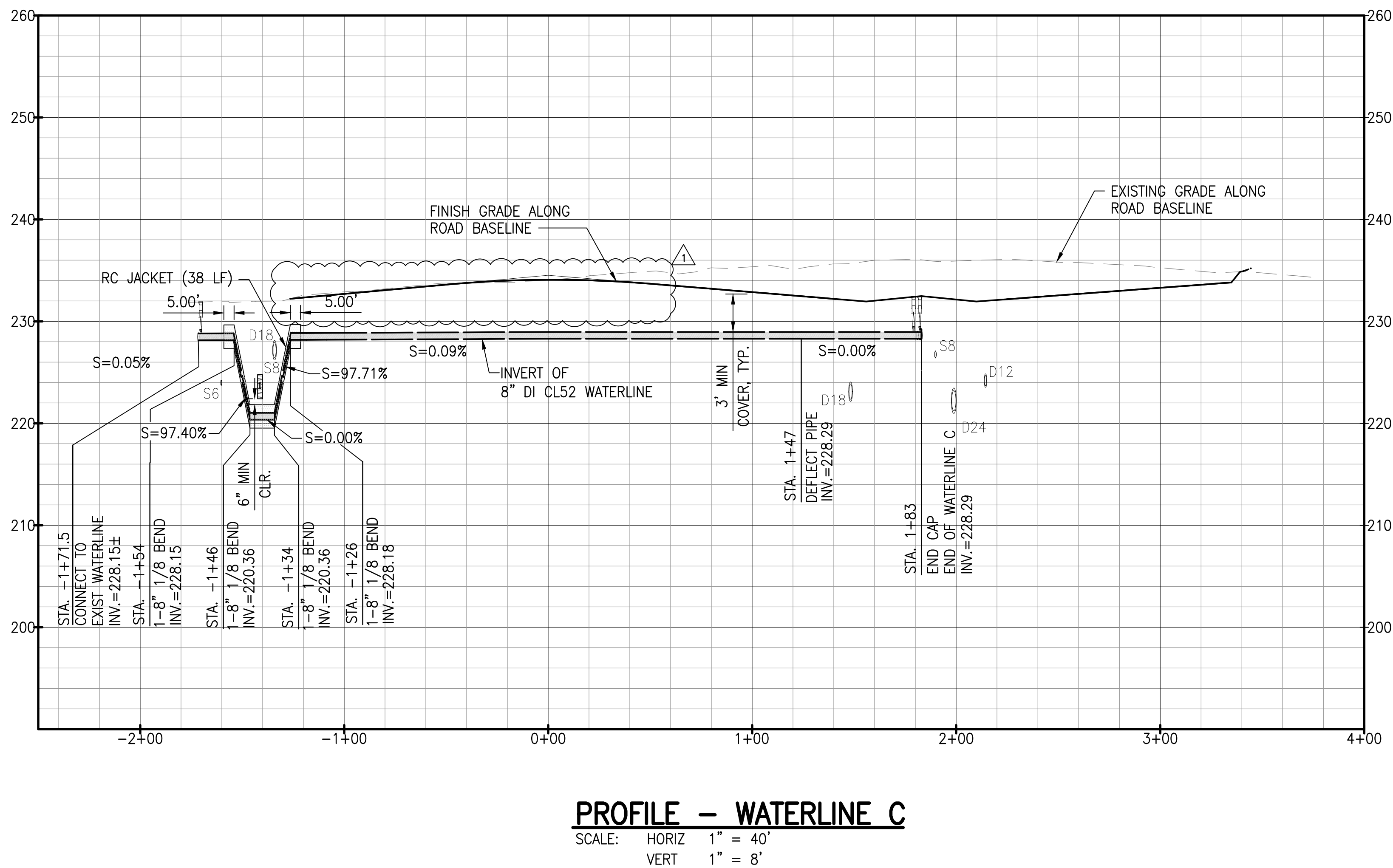
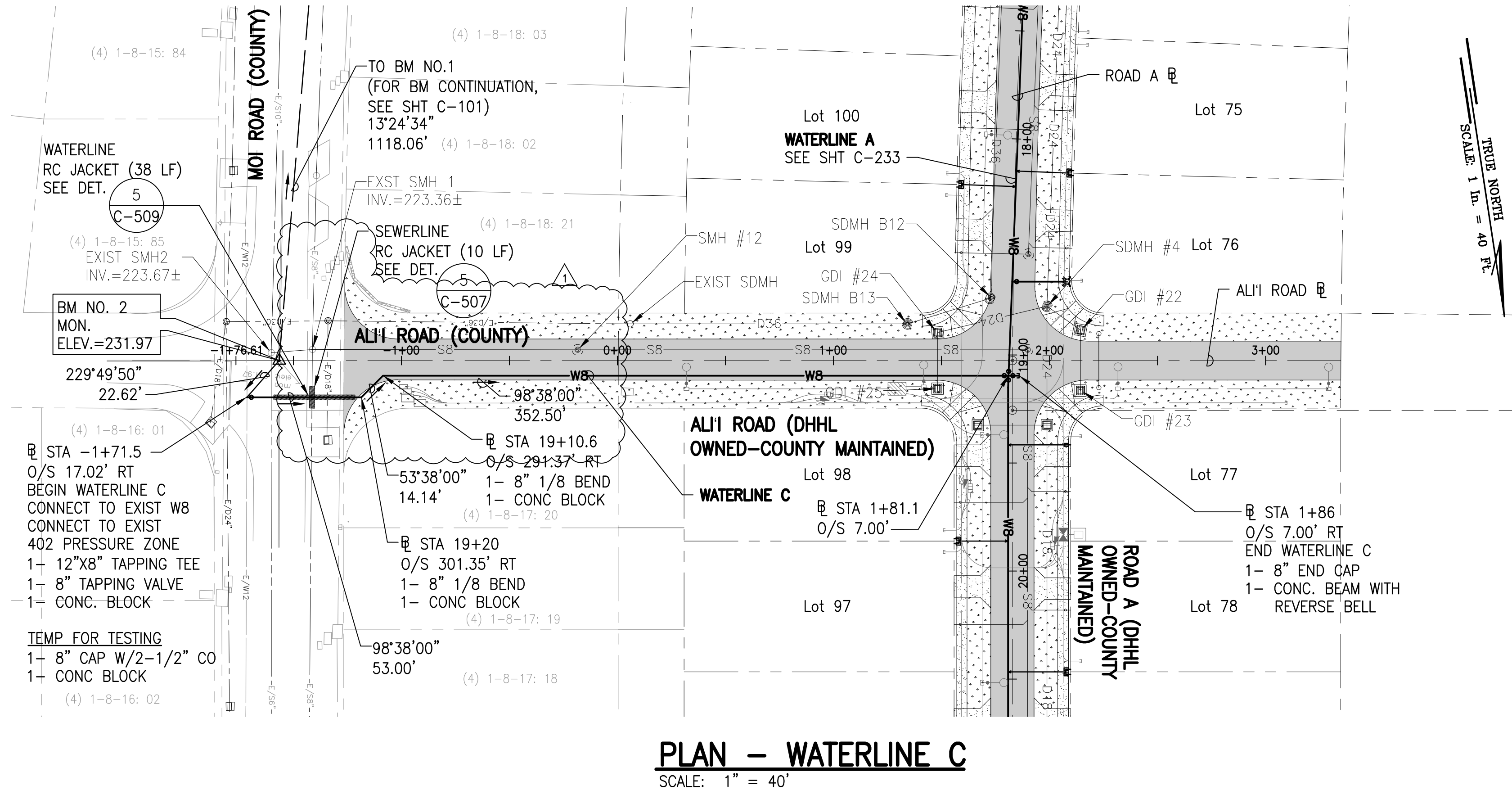
DESCRIPTION

MADE BY

APPROVED

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W:_CIVIL_3D_PROJECTS\2018_02\1.001 DHHL HANAPEPE RESIDENTIAL SUBDIVISION PHASE 2\01 CE DWG\C-234 - C-235 AHI AND ALI ROAD WATERLINE PWP.DWG 12/5/2022 3:04 PM EBBROWN



APPROVED:

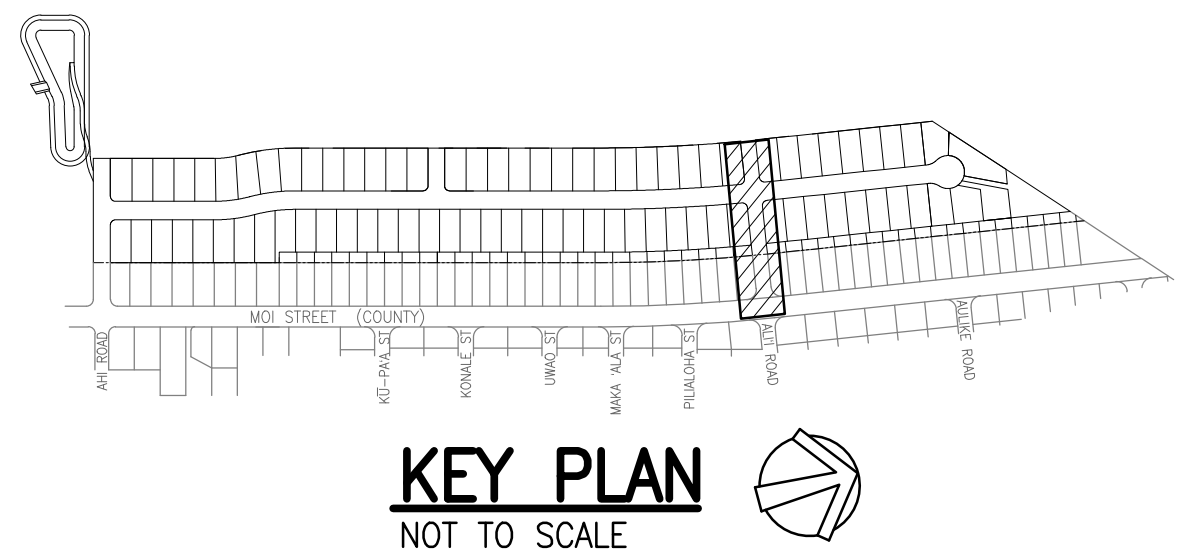
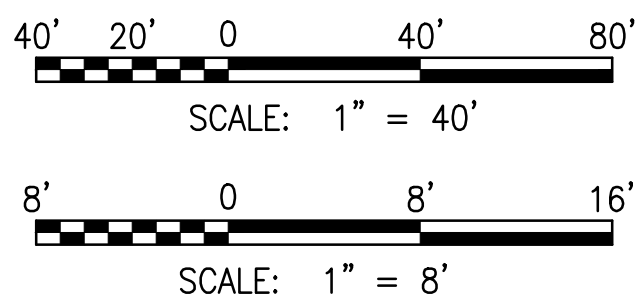
FOR MANAGER AND CHIEF ENGINEER, DEPT. OF WATER
COUNTY OF KAUAI

DATE

NOTES:

- FOR ROADWAY TYPICAL SECTIONS, SEE SHEET C-105.
- FOR SEWERLINE PLAN AND PROFILE, SEE SHEETS C-221 TO C-226.
- FOR DRAINLINE PLAN AND PROFILE, SEE SHEET C-211 TO C-214.
- FOR BASIN PLAN AND PROFILE, SEE SHEET C-215.
- FOR DRAIN LATERAL PLAN AND PROFILE, SEE SHEET C-216.
- FOR FIRE HYDRANT PROFILES, SEE SHEET C-236.
- FOR GATE VALVE AND VALVE BOX DETAIL, SEE DET. $\frac{2}{C-512}$
- FOR SINGLE SERVICE LATERALS, SEE DET. $\frac{1}{C-511}$
- FOR DOUBLE SERVICE LATERALS, SEE DET. $\frac{2}{C-511}$
- FOR FIRE HYDRANT CONNECTION, SEE DET. $\frac{1}{C-510}$

GRAPHIC SCALE:



LEGEND:

- PROPERTY LINE
- LOT LINE
- DRAINLINE
- SEWERLINE
- WATERLINE
- GRATED DRAIN INLET (GDI)
- STORM DRAIN MANHOLE (SDMH)
- SEWER MANHOLE (SMH)
- FIRE HYDRANT
- SINGLE SERVICE LATERAL (SSL)
- DOUBLE SERVICE LATERAL (DSL)
- ASPHALTIC CONCRETE PAVEMENT
- CONCRETE PAVEMENT
- GRASS

PROJECT: DEPARTMENT OF HAWAIIAN HOME LANDS
SITE AND INFRASTRUCTURE IMPROVEMENTS
FOR HANAPEPE RESIDENTIAL LOTS, PHASE 2
TMK: (4) 1-8-007: 003 (PORTION) & (4) 2-8-007: 001 TO 050 (PORTION)
Hanalei, Kauai, Hawaii

WATERLINE C PLAN AND PROFILE

DATE
NOVEMBER 2022

SHEET NUMBER

C-235

59 OF 109 SHEETS

SSFM International, Inc.
501 Summer Street
Suite 620
Honolulu, Hawaii 96817

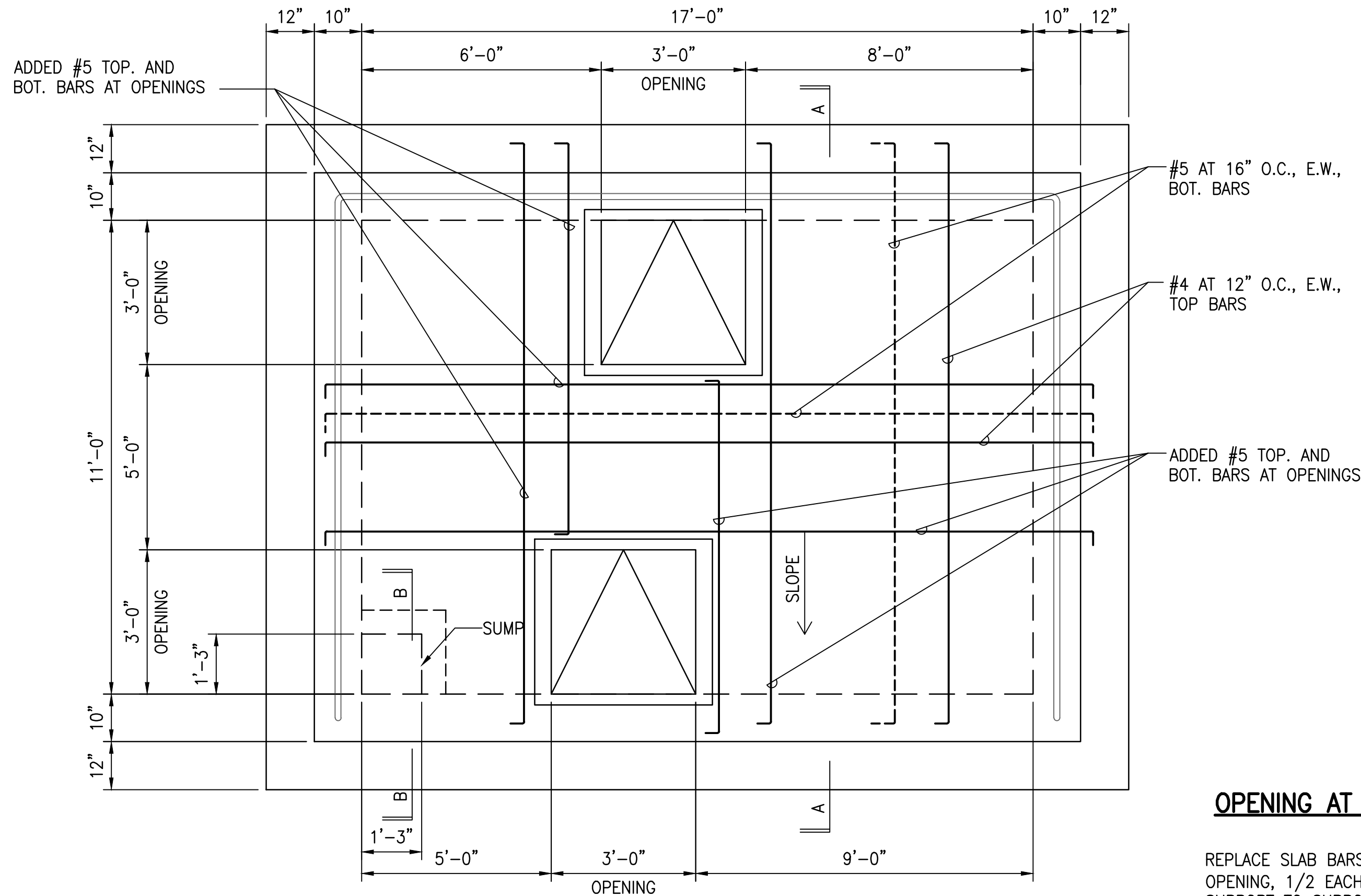
REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
1	12/05/22	ADDENDUM 4		

THE WORK WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE WORK, AND I AM NOT RESPONSIBLE FOR ANY CONSEQUENCES OF THE WORK. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE WORK, AND I AM NOT RESPONSIBLE FOR ANY CONSEQUENCES OF THE WORK.

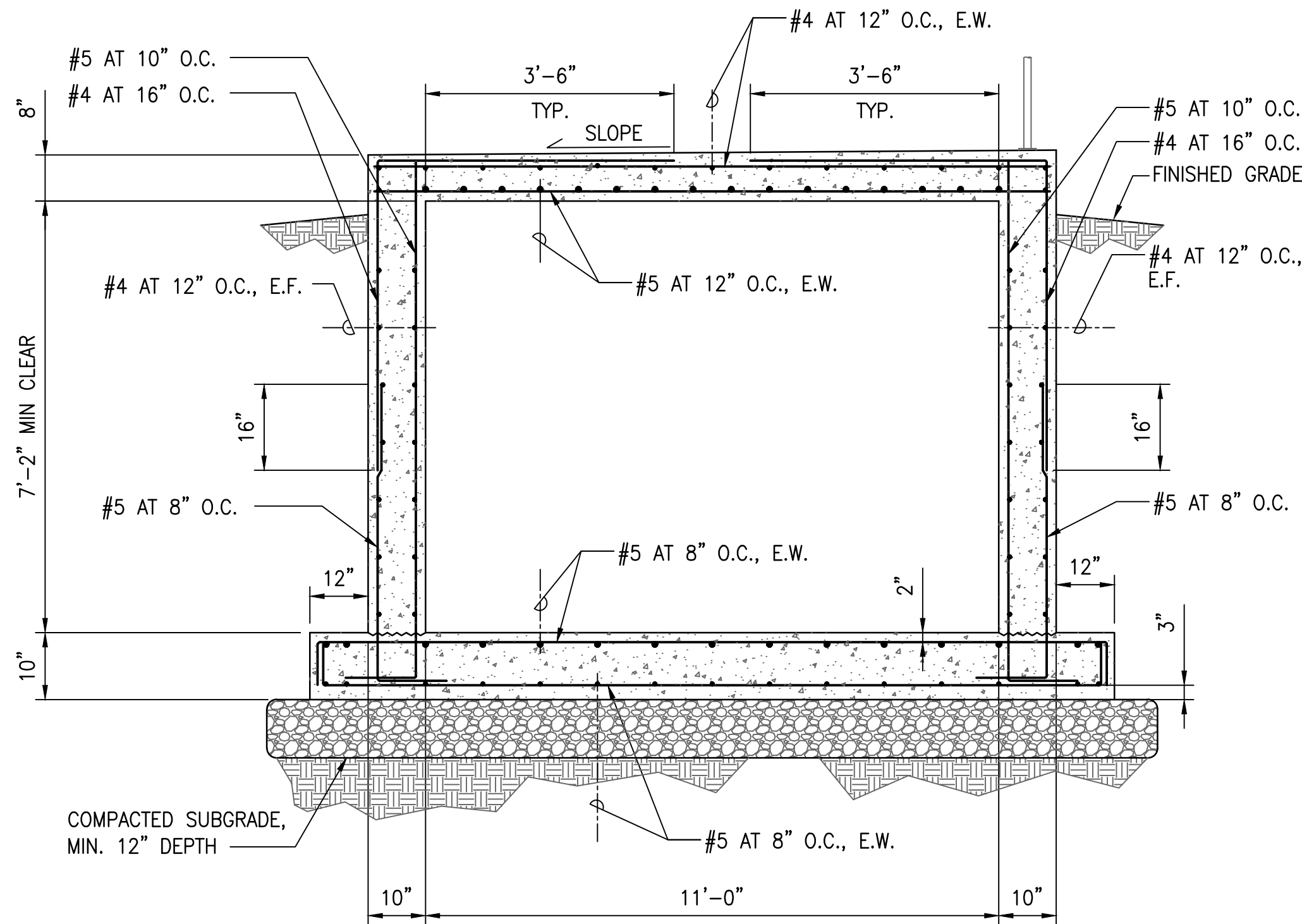
4/30/24
EXPIRATION DATE
OF THE LICENSE
OF THE ENGINEER

NOTE: Contractor to check and verify dimensions of job before proceeding with work.

W:_CIVIL_3D PROJECTS\2018_021.001 DHHL HANAPEPE RESIDENTIAL SUBDIVISION PHASE 2\01 CE DWG\C-515 WATER DETAILS - 71.DWG 12/5/2022 9:43 AM BBROWN



1 VAULT DETAILED PLAN
C-515 NOT TO SCALE

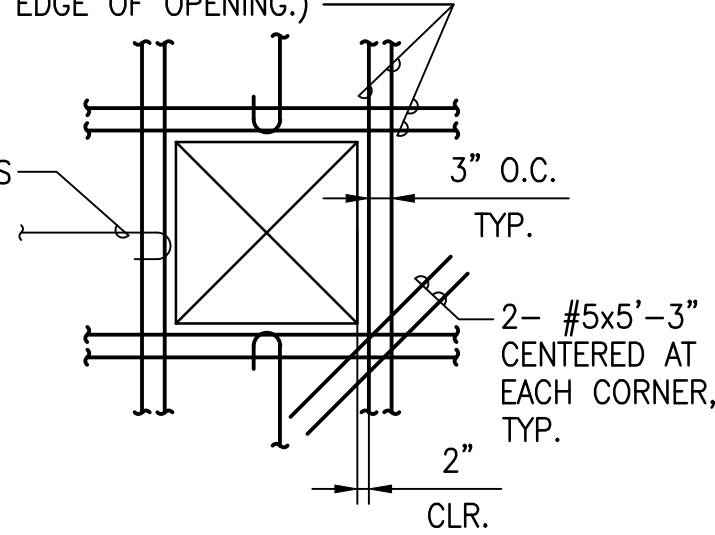


2 VAULT DETAILED SECTION A-A
C-515 NOT TO SCALE

OPENING AT SLAB AND WALL NOTES

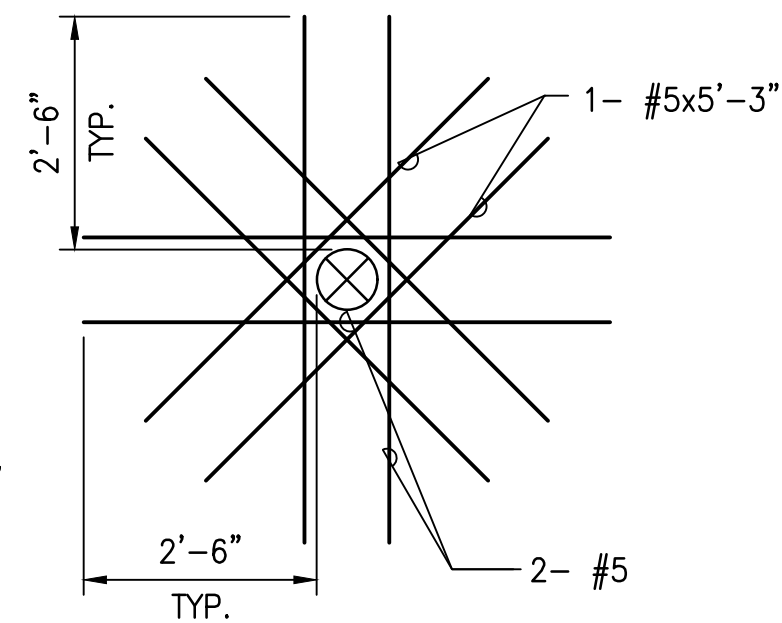
REPLACE SLAB BARS INTERRUPTED BY OPENING, 1/2 EACH SIDE, EXTENDING FROM SUPPORT TO SUPPORT, EXCEPT NOT LESS THAN 1- #5 TOP AND BOT. (EXTEND 2'-6" MIN. BEYOND EDGE OF OPENING.)

HOOK SLAB REINF. OVER TRIMMER BARS



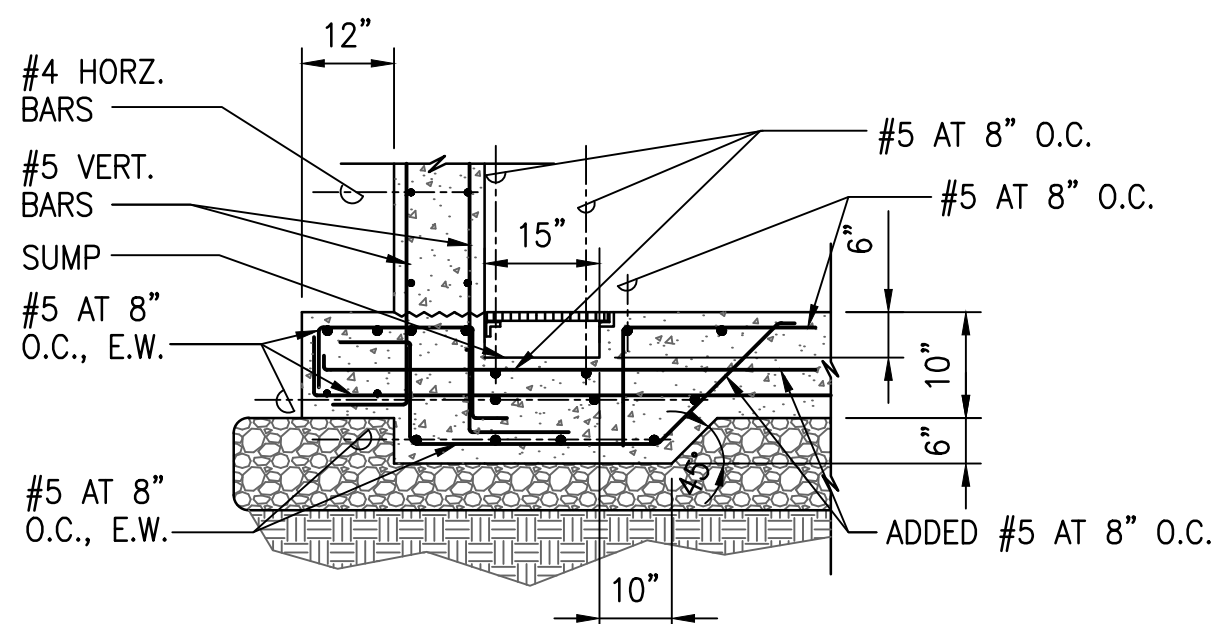
MAINTAIN MINIMUM BAR LENGTH SHOWN, BEND BARS WHERE NECESSARY AT ADJACENT OPENINGS, WALL CORNERS AND ENDS

CONDITION AT SLAB OPENING



MAINTAIN MINIMUM BAR LENGTH SHOWN, BEND BARS WHERE NECESSARY AT ADJACENT OPENINGS, WALL CORNERS AND ENDS

CONDITION AT WALL OPENING



3 SUMP DETAILED SECTION B-B
C-515 NOT TO SCALE

APPROVED:

FOR MANAGER AND CHIEF ENGINEER, DEPT. OF WATER
COUNTY OF KAUAI

DATE

NOVEMBER 2022

SHEET NUMBER

C-515

78 OF 109 SHEETS

PROJECT: DEPARTMENT OF HAWAIIAN HOME LANDS
SITE AND INFRASTRUCTURE IMPROVEMENTS
FOR HANAPEPE RESIDENTIAL LOTS, PHASE 2
TMK: (4) 1-8-007: 003 (PORTION) & (4) 2-8-007: 001 TO 050 (PORTION)
Hanalei, Kauai, Hawaii

WATER DETAILS - 7

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The work was prepared by me or under my supervision and I am a duly Licensed Professional Engineer in the State of Hawaii. I am not providing this work as a basis for any other project or for any other purpose.

4/30/24
signature

NOTE: Designer to check and verify dimensions of job before proceeding with work.

SSFM International, Inc.
501 Summer Street
Suite 620
Honolulu, Hawaii 96817

MADE BY

APPROVED

DESCRIPTION

DATE

REVISION

1

12/05/22

ADDITION 4