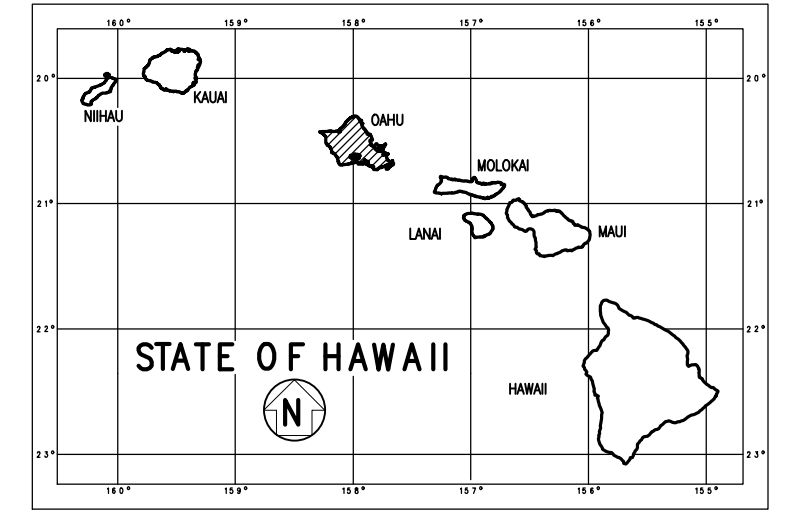


STATE OF HAWAI'I  
 AGRIBUSINESS DEVELOPMENT CORPORATION  
 JOB NO. 100002



# WAIAHOLE WATER SYSTEM IMPROVEMENTS – WELL SITE

KUNIA, OAHU, HAWAII  
 TAX MAP KEY : (1) 9-2-001: 001

PREPARED BY :



R. M. TOWILL CORPORATION

SINCE 1930  
 (808) 842-1133 2024 NORTH KING STREET SUITE 200 HONOLULU, HAWAI'I 96819

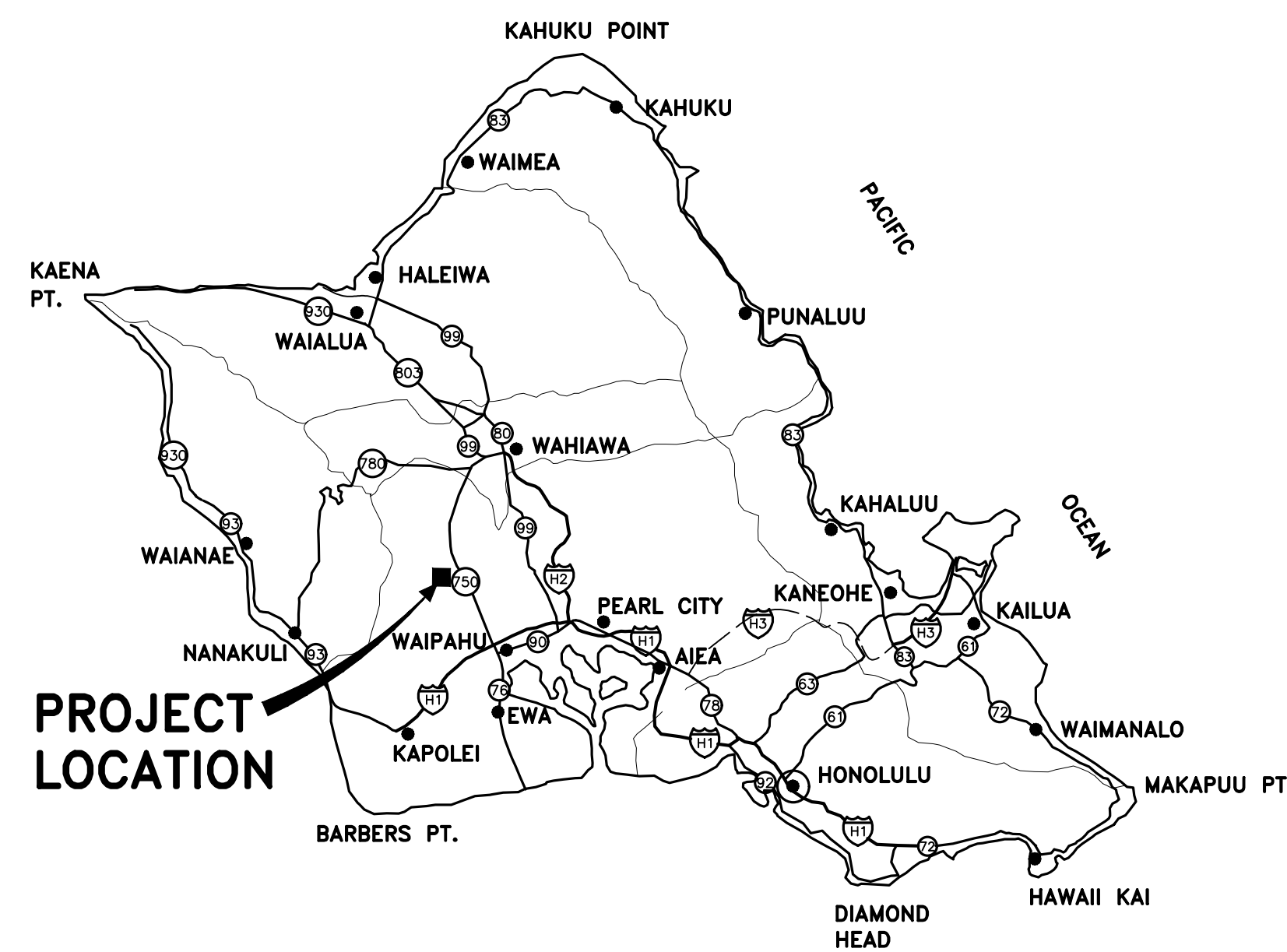
APPROVED:

EXECUTIVE DIRECTOR, AGRIBUSINESS DEVELOPMENT CORPORATION

DATE

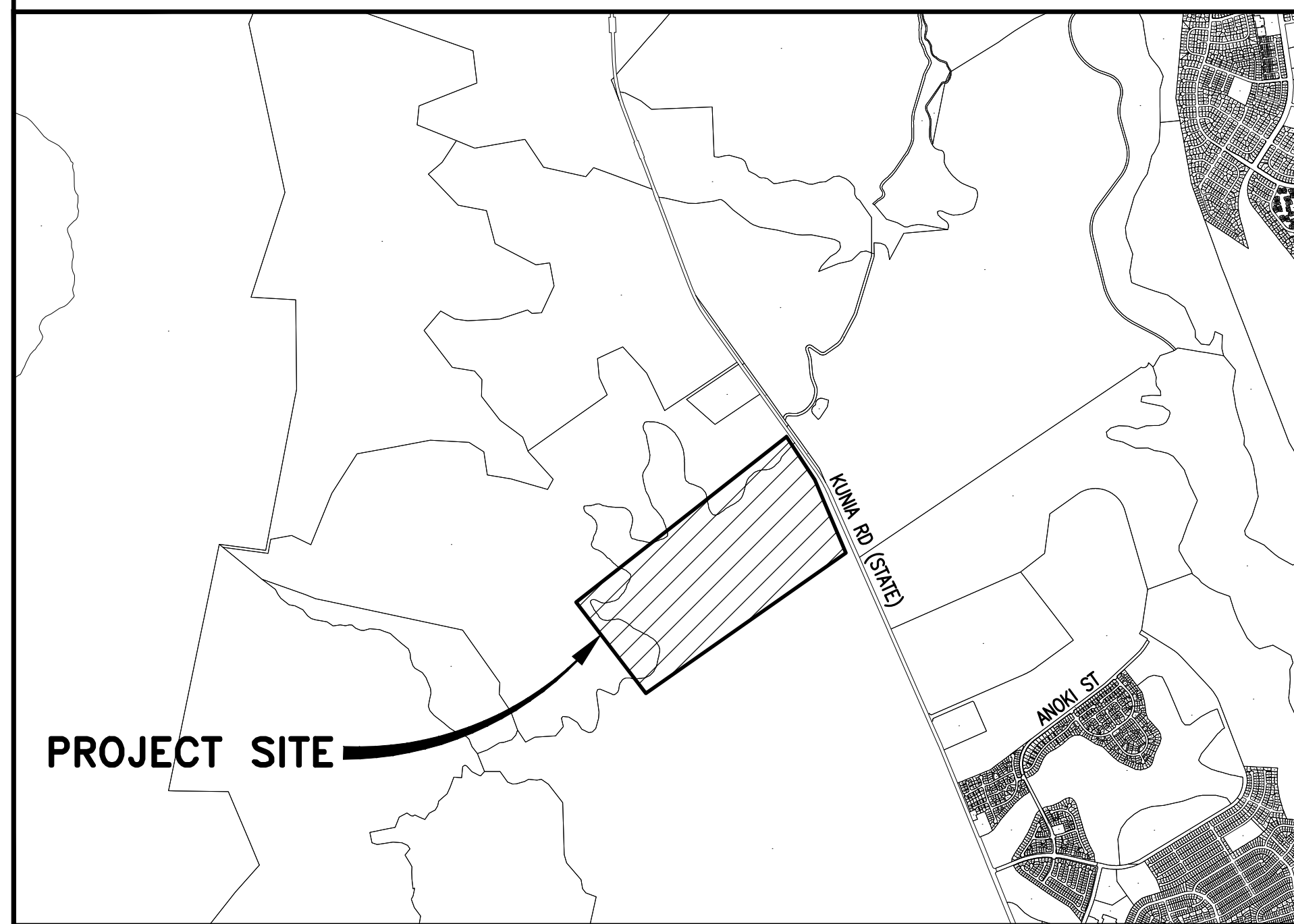
DIRECTOR, DEPARTMENT OF PLANNING AND PERMITTING, CITY & COUNTY OF HONOLULU (FOR GRADING ONLY)

DATE



SCALE IN MILES  
 5 0 5 10

VICINITY MAP



LOCATION MAP

NOT TO SCALE

RMTC JOB NO.: 1-23620-0E

FILE	POCKET	FOLDER	NO.
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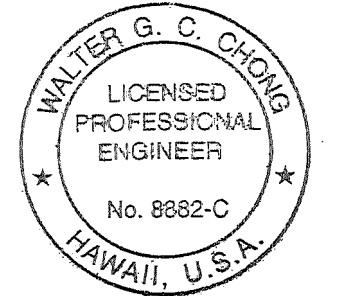






**WAIAHOLE  
WATER SYSTEM  
IMPROVEMENTS -  
WELL SITE**

**R. M. TOWILL CORPORATION**  
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 Honolulu Hawaii 96815



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 Signature: *Walter G. C. Chong* 4/30/26  
 EXP. DATE

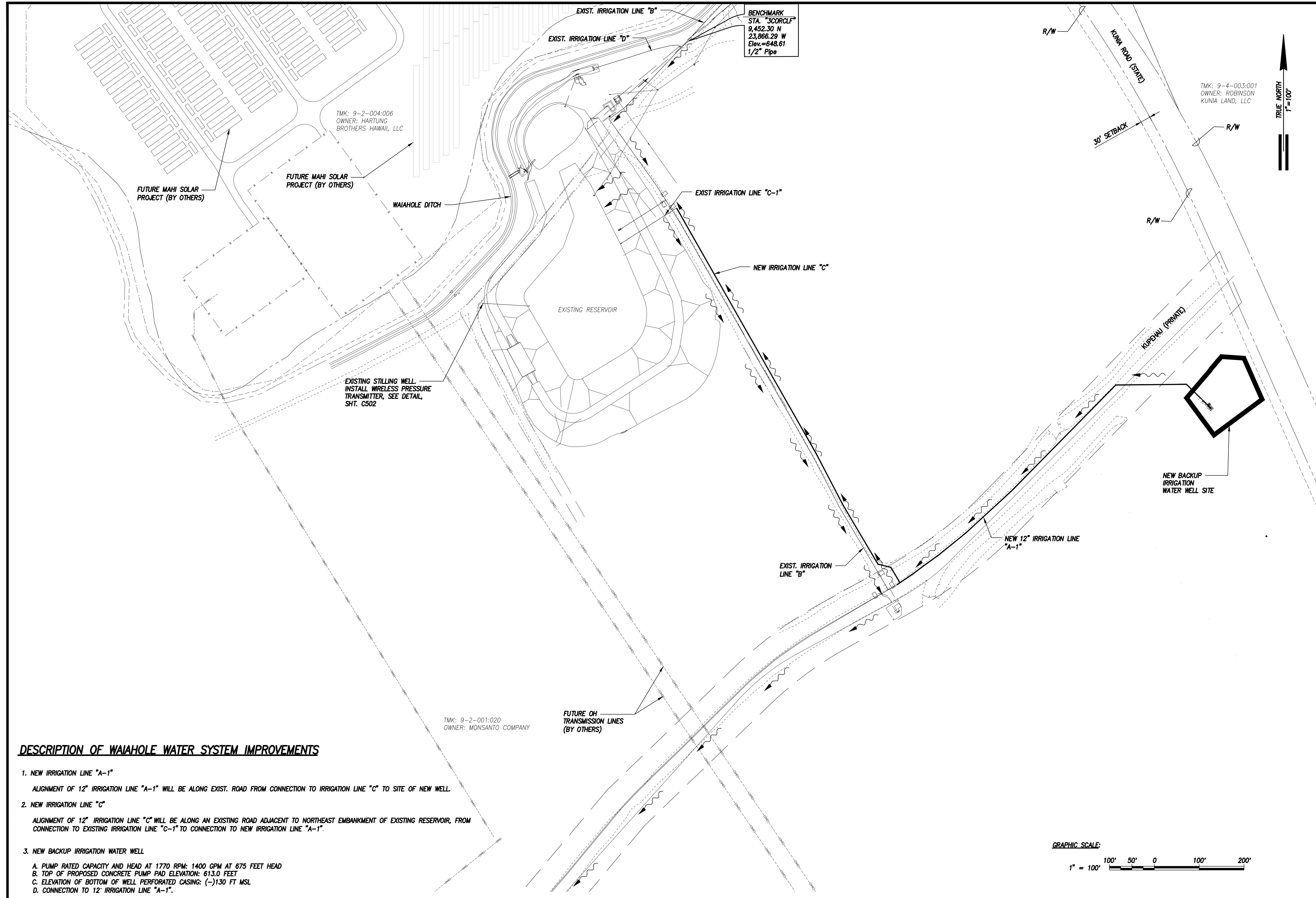
NO.	REVISION	DATE	BY	APPROVED

APPROVED BY  
 Chief, Civil Engineering Branch, DPP DATE

ENGINEER  
 DRAFTSMAN  
 CHECKED BY  
 SCALE AS SHOWN  
 DATE MAY 2024  
 DPP FILE NO. 20XX/CP-XXX

**PROPOSED WATERLINE  
AND WELL SYSTEM**

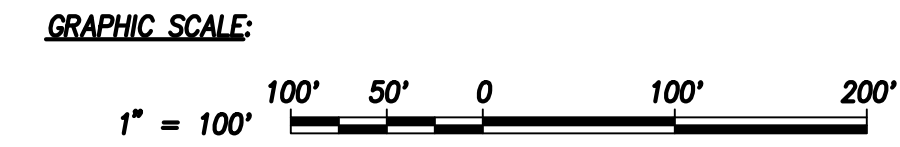
FILE	POCKET	FOLDER	NO.
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**DESCRIPTION OF WAIAHOLE WATER SYSTEM IMPROVEMENTS**

- NEW IRRIGATION LINE "A-1"**  
ALIGNMENT OF 12" IRRIGATION LINE "A-1" WILL BE ALONG EXIST. ROAD FROM CONNECTION TO IRRIGATION LINE "C" TO SITE OF NEW WELL.
- NEW IRRIGATION LINE "C"**  
ALIGNMENT OF 12" IRRIGATION LINE "C" WILL BE ALONG AN EXISTING ROAD ADJACENT TO NORTHEAST EMBANKMENT OF EXISTING RESERVOIR, FROM CONNECTION TO EXISTING IRRIGATION LINE "C-1" TO CONNECTION TO NEW IRRIGATION LINE "A-1".
- NEW BACKUP IRRIGATION WATER WELL**
  - PUMP RATED CAPACITY AND HEAD AT 1770 RPM: 1400 GPM AT 675 FEET HEAD
  - TOP OF PROPOSED CONCRETE PUMP PAD ELEVATION: 613.0 FEET
  - ELEVATION OF BOTTOM OF WELL PERFORATED CASING: (-)130 FT MSL
  - CONNECTION TO 12" IRRIGATION LINE "A-1".

**PROPOSED WATERLINE AND WELL SYSTEM**  
SCALE: 1" = 100'



RMT JC JOB NO.: 1-23196-0E





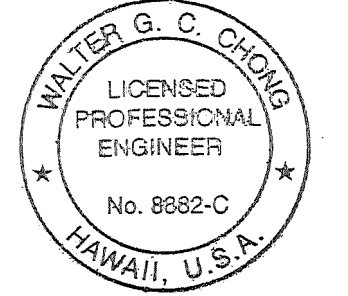




**WAIHOLE WATER SYSTEM IMPROVEMENTS - WELL SITE**

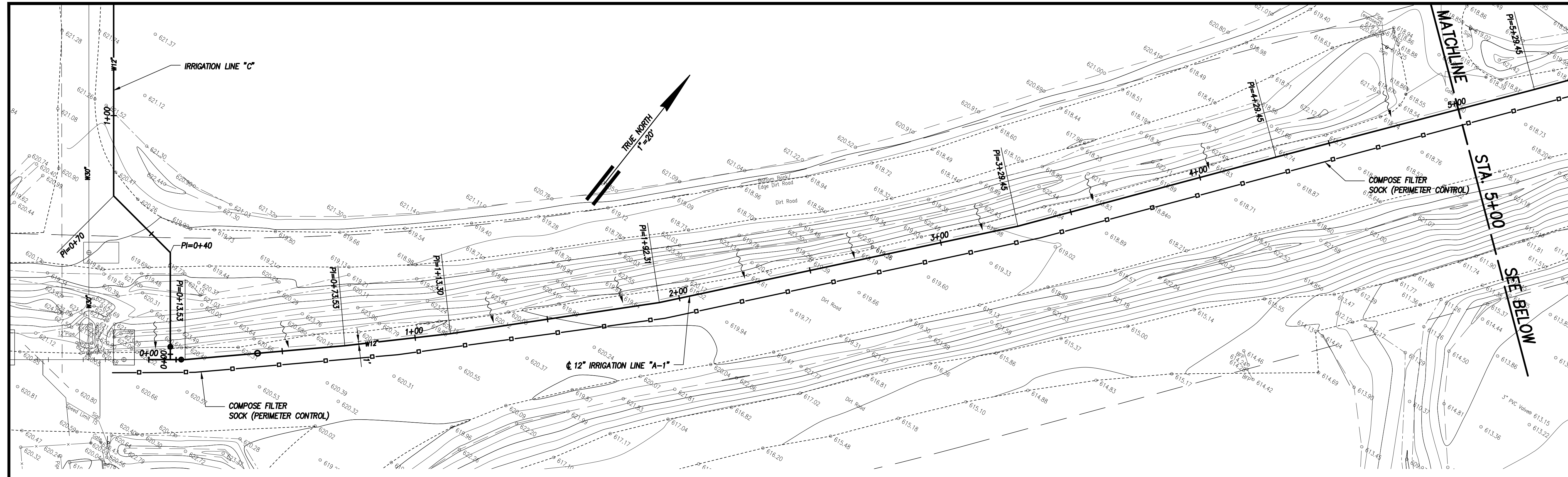


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Walter G. C. Chong 4/30/26  
 SIGNATURE EXP. DATE



**EROSION & SEDIMENT CONTROL PLAN – 1 (IRRIGATION LINE "A-1")**

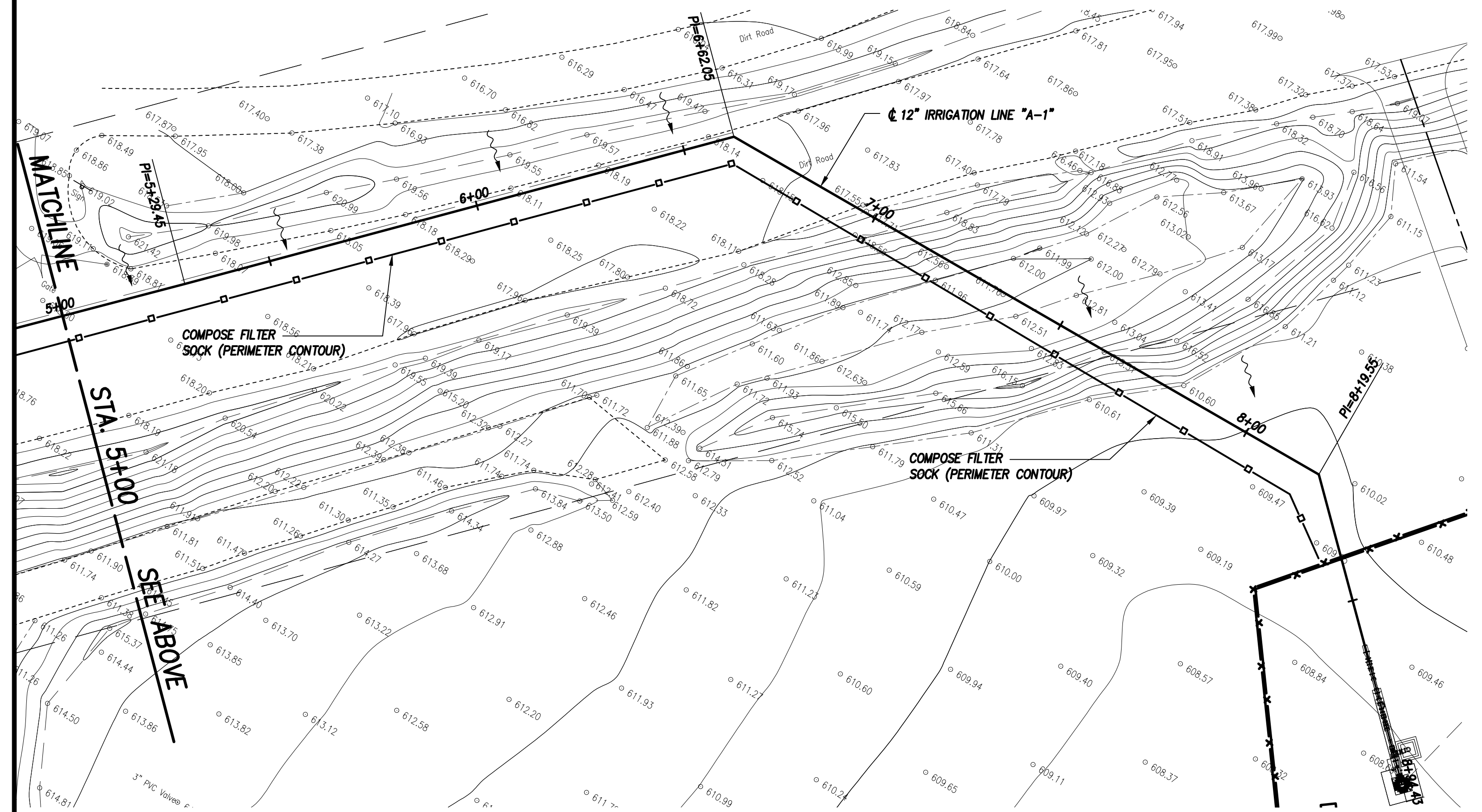
SCALE: 1" = 20'

**LEGEND:**

- — — — — PROPERTY LINE
- 70 — — — — — EXIST. INDEX CONTOUR
- 69 — — — — — EXIST. INTERMEDIATE CONTOUR
- - - - - LIMITS OF GRADING/DISTURBED AREA
- o — o — o — o — COMPOST FILTER SOCK
- > — — — — — DRAINAGE FLOW DIRECTION

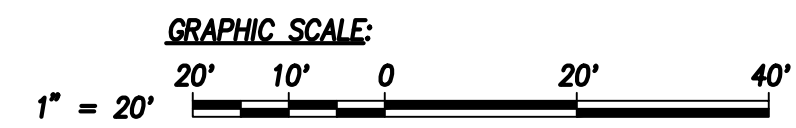
**APPROXIMATE QUANTITIES**

SILTSOXX COMPOST FILTER SOCK 843 LF



**EROSION & SEDIMENT CONTROL PLAN – 1 (IRRIGATION LINE "A-1")**

SCALE: 1" = 20'



NO.	REVISION	DATE	BY	APPROVED

APPROVED BY \_\_\_\_\_

ENGINEER \_\_\_\_\_

DRAFTSMAN \_\_\_\_\_

CHECKED BY \_\_\_\_\_

SCALE AS SHOWN

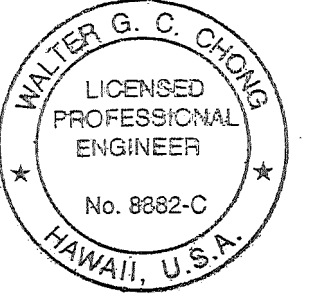
DATE MAY 2024

DPP FILE NO. 20XX/CP-XXX

**EROSION & SEDIMENT CONTROL PLAN – 1 (IRRIGATION LINES "A-1")**

FILE	POCKET	FOLDER	NO.
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# WAIHOLE WATER SYSTEM IMPROVEMENTS - WELL SITE



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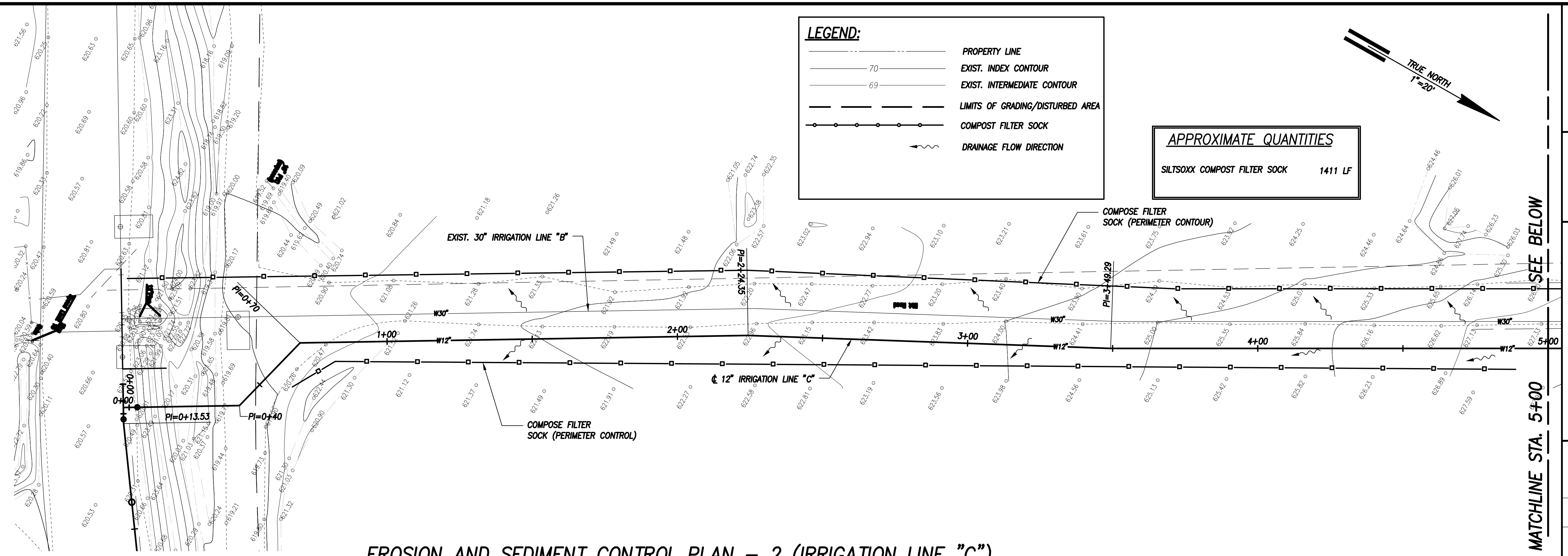
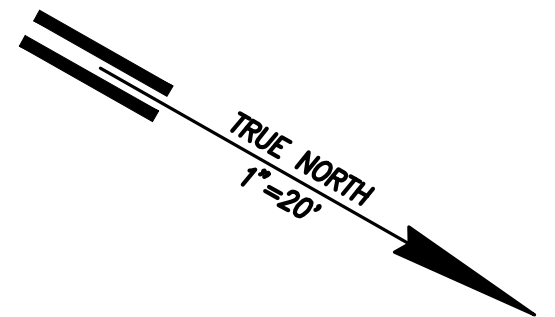
MATCHLINE STA. 5+00 SEE BELOW

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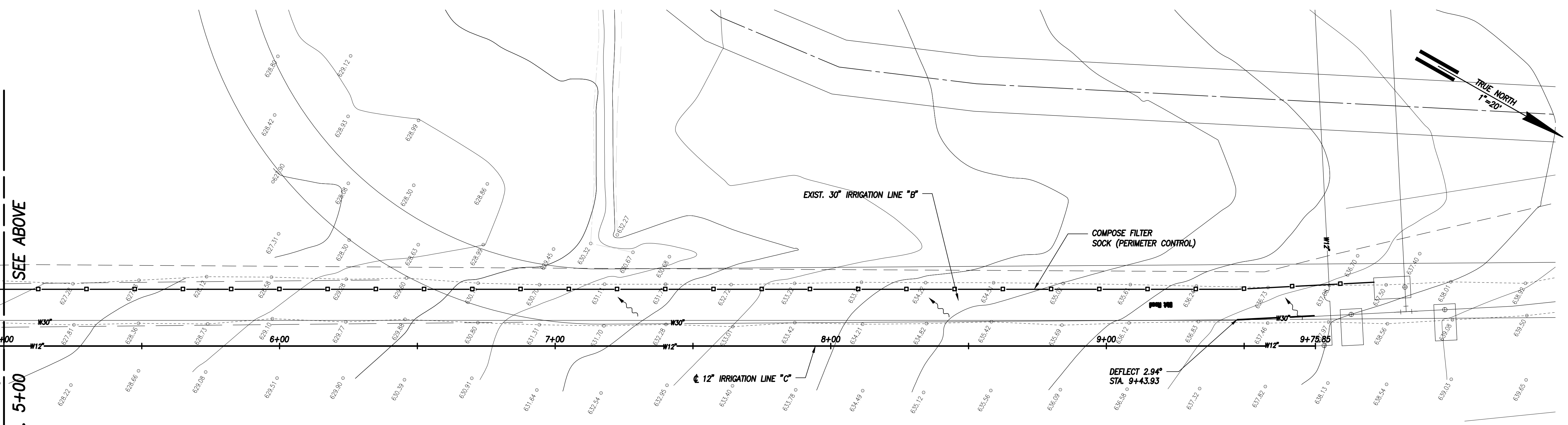
- PROPERTY LINE
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- 69 — EXIST. INTERMEDIATE CONTOUR
- LIMITS OF GRADING/DISTURBED AREA
- COMPOST FILTER SOCK
- DRAINAGE FLOW DIRECTION

**APPROXIMATE QUANTITIES**

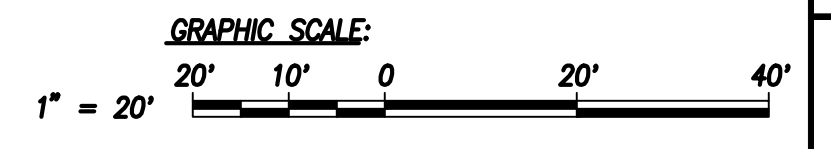
SILTSOXX COMPOST FILTER SOCK 1411 LF



**EROSION AND SEDIMENT CONTROL PLAN - 2 (IRRIGATION LINE "C")**  
SCALE: 1" = 20'



**EROSION AND SEDIMENT CONTROL PLAN - 2 (IRRIGATION LINE "C")**  
SCALE: 1" = 20'



NO.	REVISION	DATE	BY	APPROVED

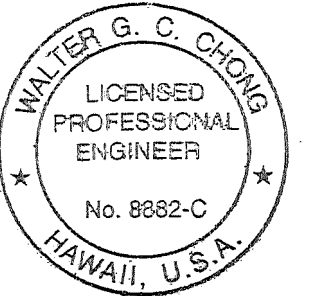
APPROVED BY

ENGINEER  
DRAFTSMAN  
CHECKED BY  
SCALE AS SHOWN  
DATE MAY 2024  
DPP FILE NO. 20XX/CP-XXX

**EROSION & SEDIMENT CONTROL PLAN - 2 (IRRIGATION LINE "C")**

**WAIHOLE  
WATER SYSTEM  
IMPROVEMENTS -  
WELL SITE**

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*Walter G. C. Chong*      4/30/26  
SIGNATURE      EXP. DATE

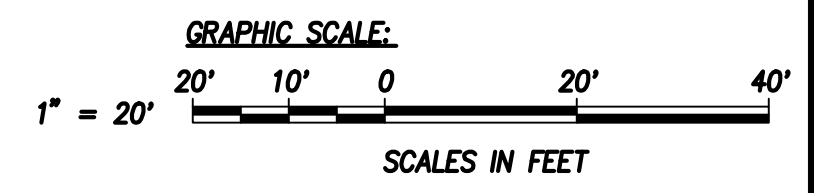


**APPROXIMATE QUANTITIES**  
 SILTXXX COMPOST FILTER SOCK      713 LF

**LEGEND:**

- — — — — PROPERTY LINE
- 70 —— EXIST. INDEX CONTOUR
- 69 —— EXIST. INTERMEDIATE CONTOUR
- - - - - LIMITS OF GRADING/DISTURBED AREA
- o - o - o - COMPOST FILTER SOCK
- ~ ~ ~ ~ ~ DRAINAGE FLOW DIRECTION

**EROSION AND SEDIMENT CONTROL PLAN - 3 (WELL SITE)**  
 SCALE: 1" = 20'



NO.	REVISION	DATE	BRIEF	BY	APPROVED

APPROVED BY \_\_\_\_\_

ENGINEER \_\_\_\_\_

DRAFTSMAN \_\_\_\_\_

CHECKED BY \_\_\_\_\_

SCALE      AS SHOWN

DATE      MAY 2024

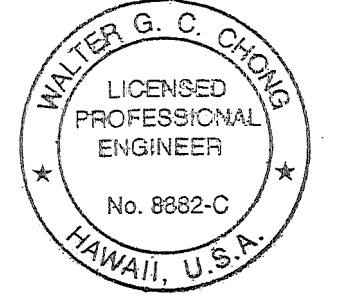
DPP FILE NO.      20XX/CP-XXX

**EROSION AND SEDIMENT  
CONTROL PLAN - 3  
(WELL SITE)**

FILE	POCKET	TABLER	NO.
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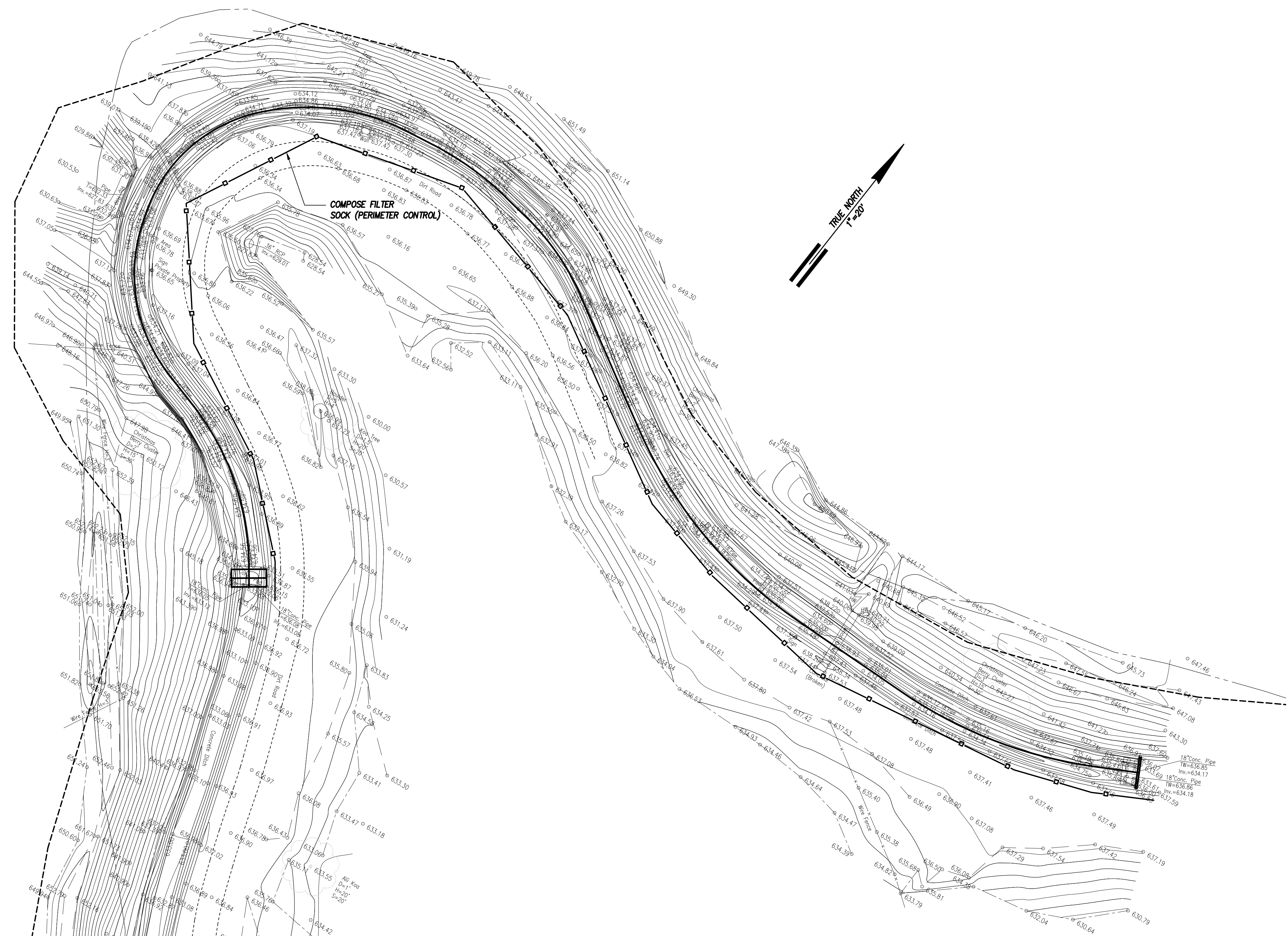
RMT JC JOB NO.: 1-23196-0E

**WAIHOLE  
WATER SYSTEM  
IMPROVEMENTS -  
WELL SITE**



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Walter G. C. Chong  
SIGNATURE      4/30/26  
EXP. DATE



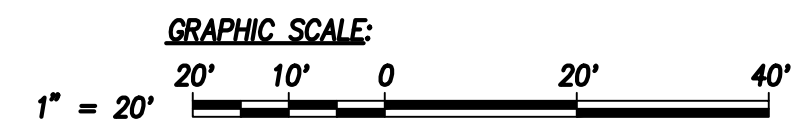
**LEGEND:**

	PROPERTY LINE
	EXIST. INDEX CONTOUR
	EXIST. INTERMEDIATE CONTOUR
	LIMITS OF GRADING/DISTURBED AREA
	COMPOST FILTER SOCK
	DRAINAGE FLOW DIRECTION

**APPROXIMATE QUANTITIES**

SILT/COX COMPOST FILTER SOCK	575 LF
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**EROSION & SEDIMENT CONTROL PLAN - 4 (HAIRPIN TURN)**  
SCALE: 1" = 20'



REVISION	DATE	BRIEF	BY	APPROVED

APPROVED BY

ENGINEER	
DRAFTSMAN	
CHECKED BY	
SCALE	AS SHOWN
DATE	MAY 2024
DPP FILE NO.	20XX/CP-XXX

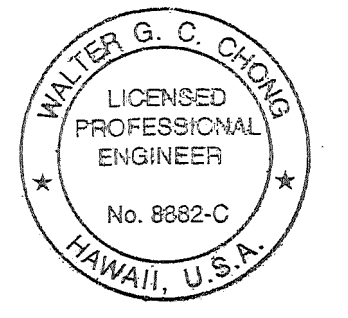
**EROSION & SEDIMENT  
CONTROL PLAN - 4  
(HAIRPIN TURN)**

FILE	POCKET	FOLDER	NO.
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RMT JC JOB NO.: 1-23196-0E

# WAIAHOLE WATER SYSTEM IMPROVEMENTS - WELL SITE

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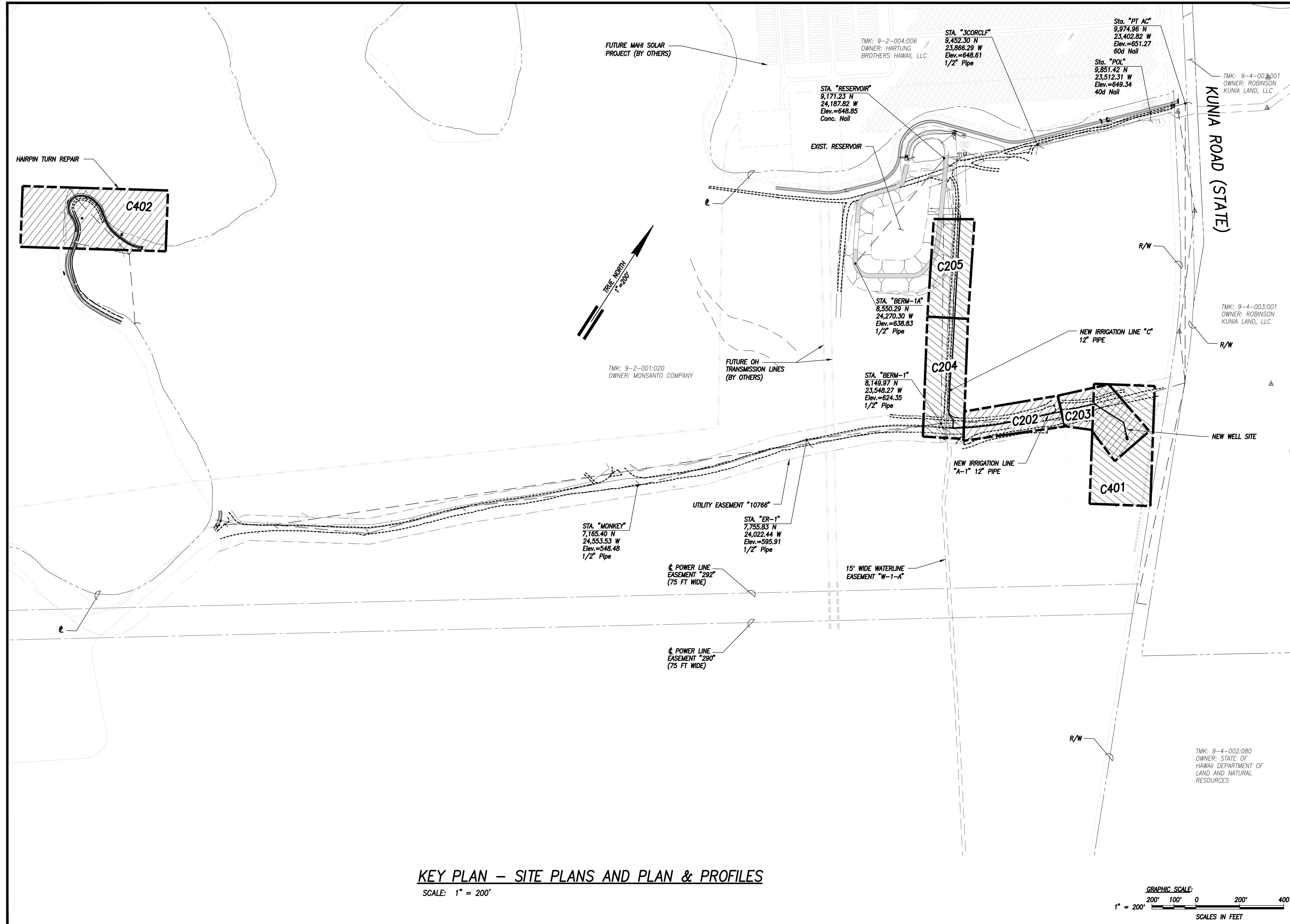
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 Signature: *Walter G. C. Chong* 4/30/26  
 DATE

NO.	DATE	REVISION	BY	APPROVED

APPROVED BY \_\_\_\_\_  
 Chief, Civil Engineering Branch, DPP DATE

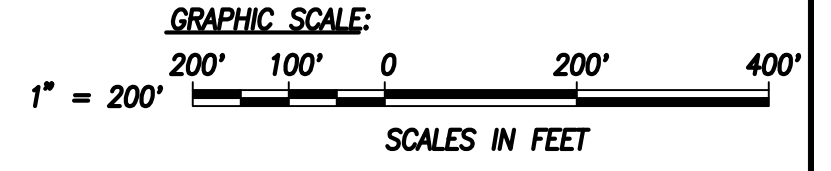
ENGINEER \_\_\_\_\_  
 DRAFTSMAN \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 SCALE AS SHOWN  
 DATE MAY 2024  
 DPP FILE NO. 20XX/CP-XXX

## KEY PLAN - SITE PLANS AND PLAN & PROFILES



### KEY PLAN - SITE PLANS AND PLAN & PROFILES

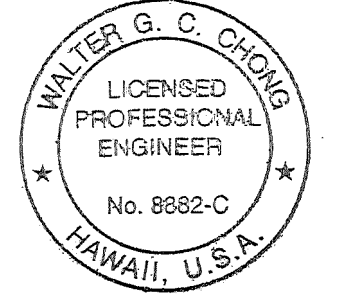
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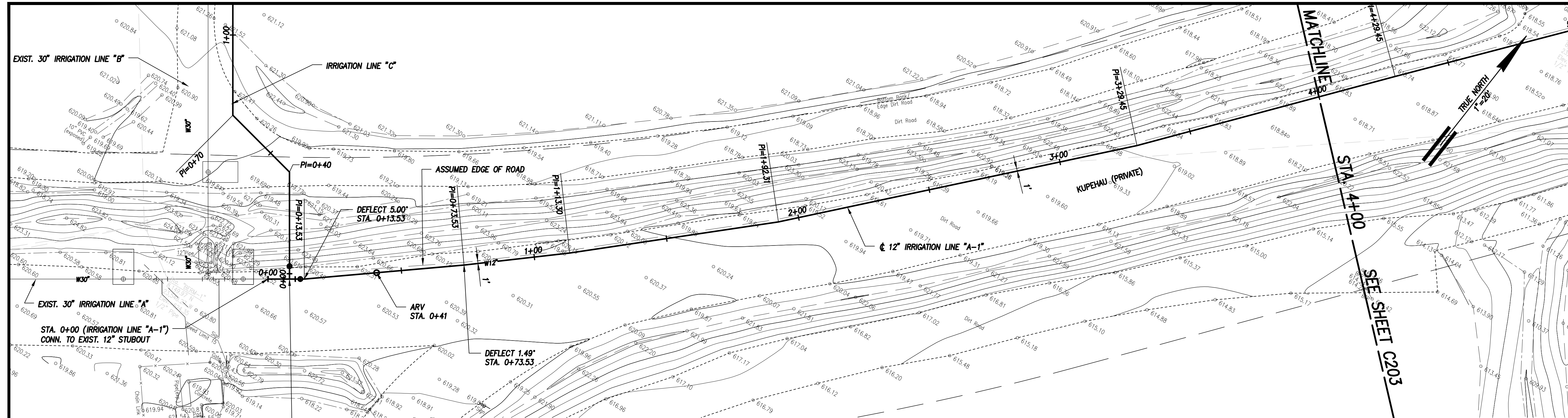
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**WAIHOLE  
WATER SYSTEM  
IMPROVEMENTS -  
WELL SITE**

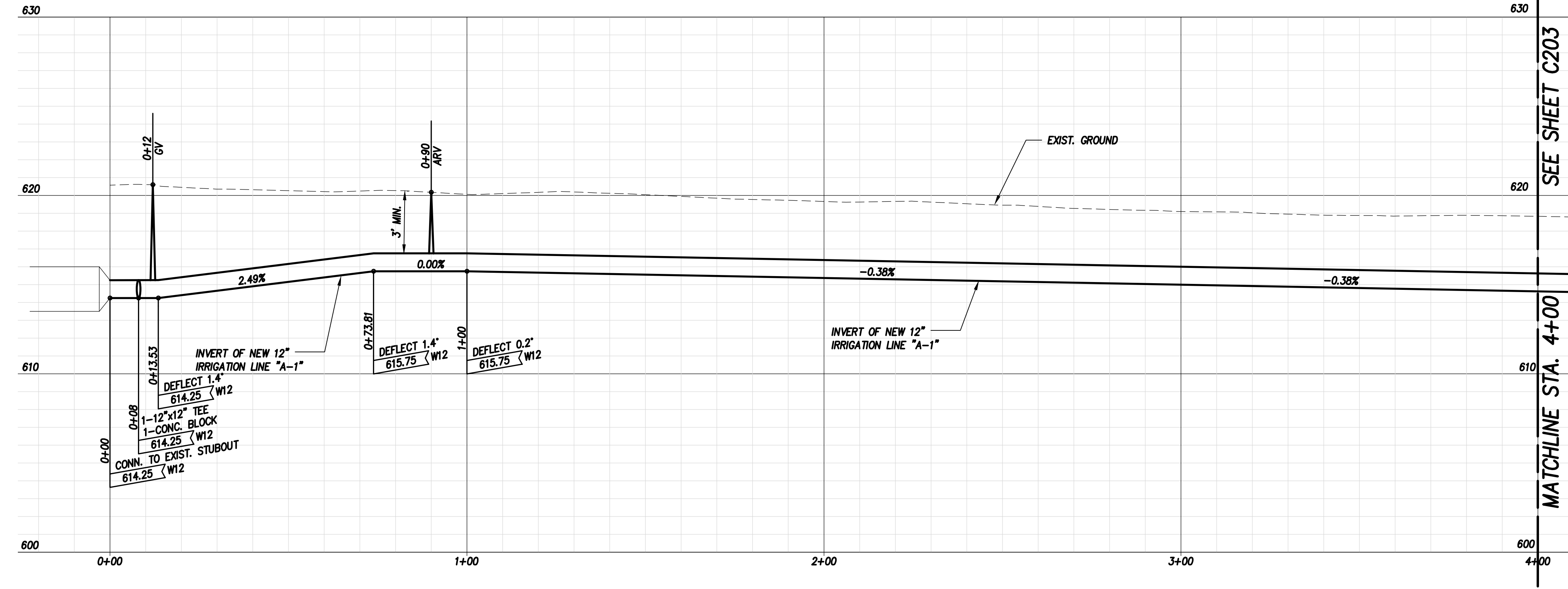
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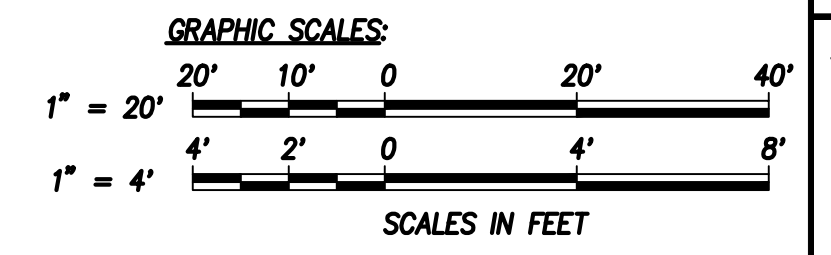
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 Signature: *Walter G. C. Chong* 4/30/26 EXP. DATE



**PLAN: 12" IRRIGATION LINE "A-1"**  
 SCALE: 1" = 20'



**PROFILE: 12" IRRIGATION LINE "A-1"**  
 SCALES: HOR. 1" = 20'  
 VERT. 1" = 4'



NO.	DATE	REVISION	BY	APPROVED

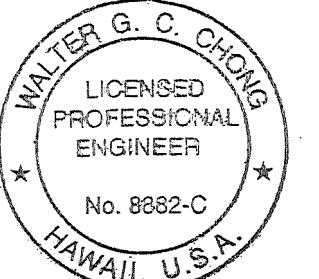
APPROVED BY: \_\_\_\_\_  
 ENGINEER  
 DRAFTSMAN  
 CHECKED BY: \_\_\_\_\_  
 SCALE: AS SHOWN  
 DATE: MAY 2024  
 DPP FILE NO.: 20XX/CP-XXX

**12" IRRIGATION LINE "A-1"**  
 PLAN & PROFILE - 1  
 (STA. 0+00 TO 4+00)

RMTC JOB NO.: 1-23196-0E

# WAIHOLE WATER SYSTEM IMPROVEMENTS - WELL SITE

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Walter G. C. Chong  
 SIGNATURE DATE 4/30/26  
 EXP. DATE

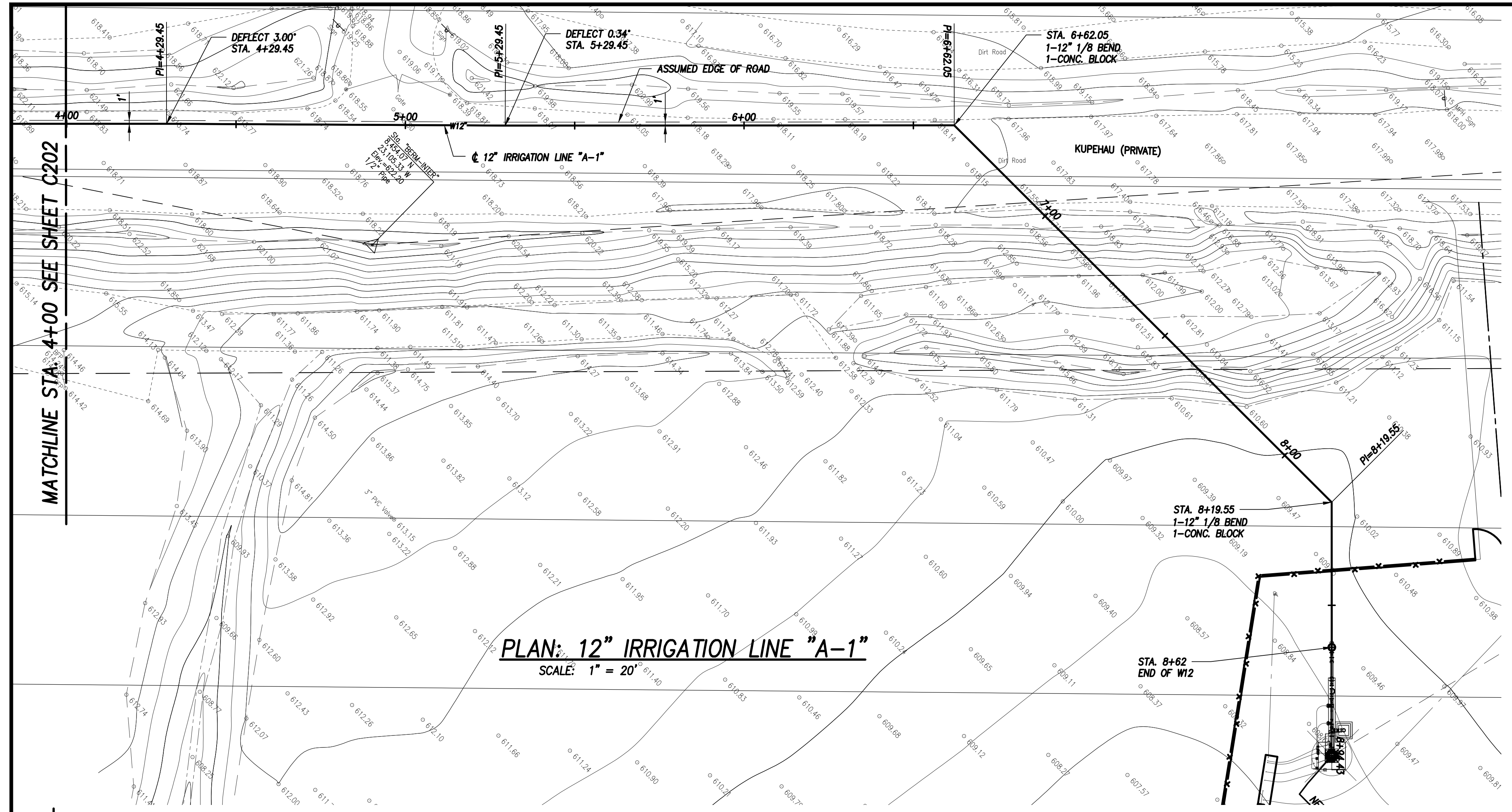
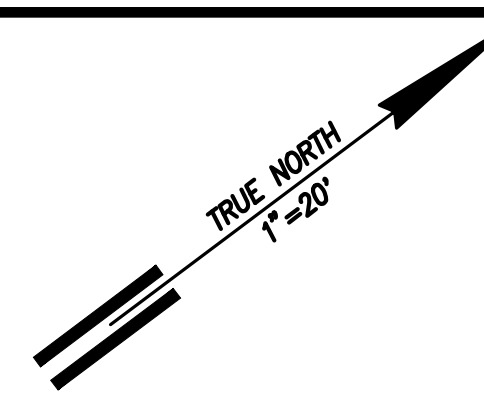
NO.	REVISION	DATE	BY	APPROVED

APPROVED BY \_\_\_\_\_

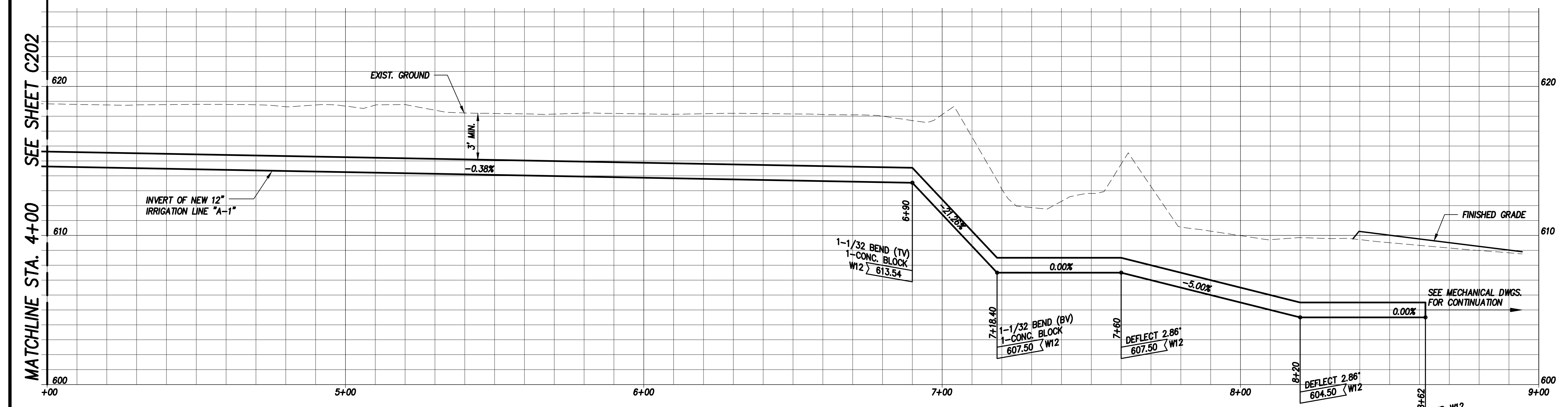
ENGINEER \_\_\_\_\_  
 DRAFTSMAN \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

SCALE AS SHOWN  
 DATE MAY 2024  
 DPP FILE NO. 20XX/CP-XXX

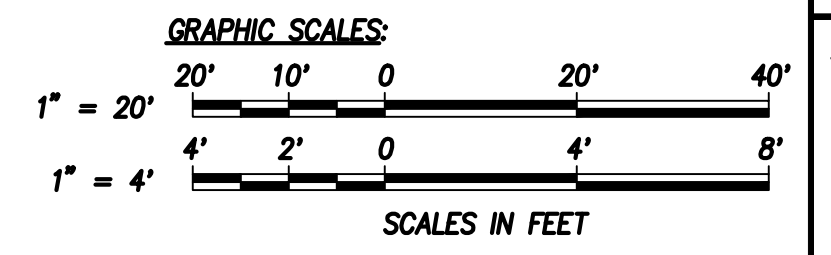
12" IRRIGATION LINE "A-1"  
 PLAN & PROFILE - 2  
 (STA. 4+00 TO END)



**PLAN: 12" IRRIGATION LINE "A-1"**  
 SCALE: 1" = 20'



**PROFILE: 12" IRRIGATION LINE "A-1"**  
 SCALES: HOR. 1" = 20'  
 VERT. 1" = 4'







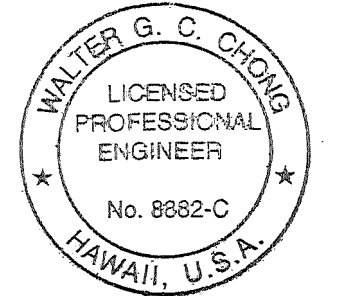






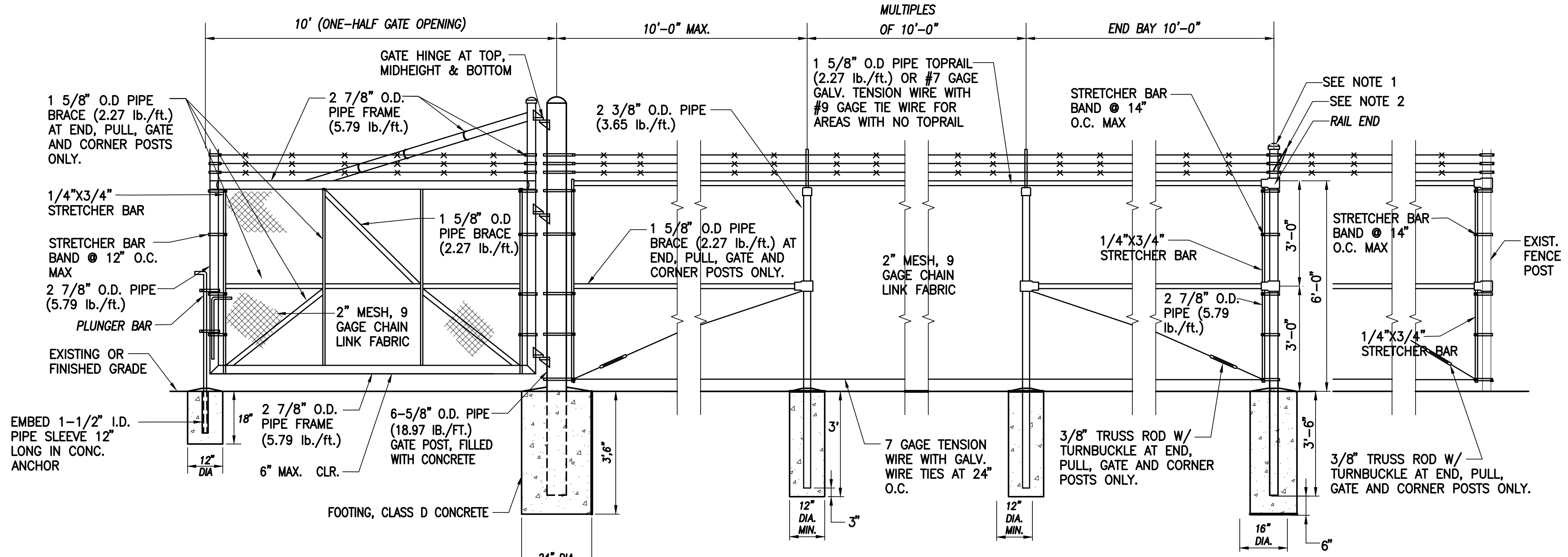
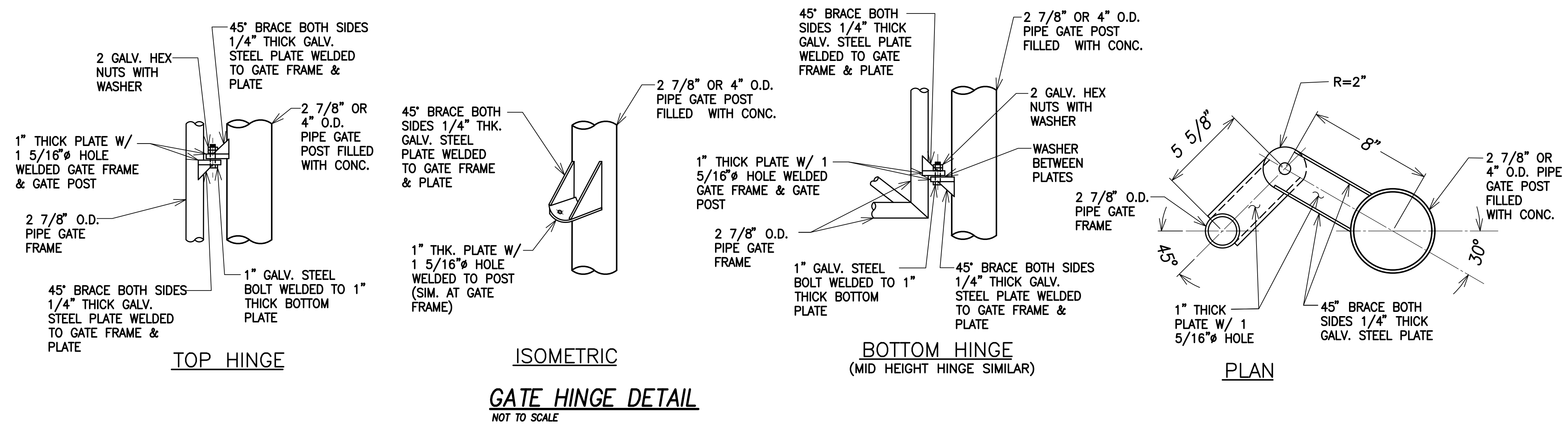
**WAIHOLE  
WATER SYSTEM  
IMPROVEMENTS -  
WELL SITE**

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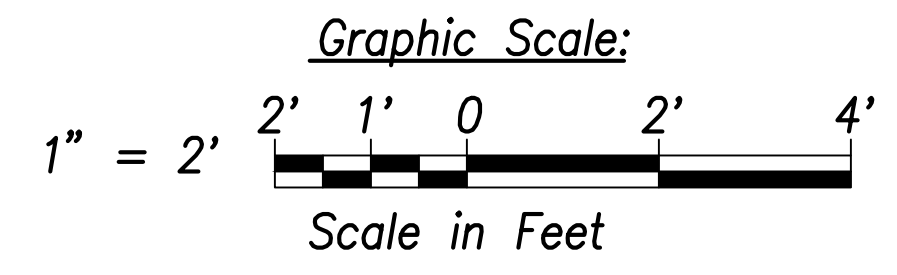
Signature: *Walter G. C. Chong*      4/30/26  
DATE



- GATE NOTES:**
- GATE FRAME SHALL BE WELDED PIPE CONSTRUCTION.
  - FOR ALL WELDED CONNECTIONS, CORNERS SHALL BE MITERED AND ALL PIPE BRACES PROPERLY COPED.
  - ALL WELDED CONNECTIONS SHALL BE PAINTED WITH TWO COATS OF Z.R.C. COLD GALVANIZING COMPOUND.
  - GATE HINGES SHALL BE TACK WELDED TO POST.
  - PIPES, FITTINGS, AND POSTS SHALL BE HOT-DIP GALVANIZED.
  - TOP AND BOTTOM SELVAGES SHALL BE KNUCKLED FINISH.

- FENCE NOTES:**
- ALL PIPE AND POST SIZES ARE OUTSIDE DIAMETER (O.D.).
  - PIPES, FITTINGS, AND POSTS SHALL BE HOT-DIP GALVANIZED.
  - FABRIC SHALL BE CONTINUOUS AND FASTENED TO END POSTS BY STRETCHER BARS AND TENSION BANDS SPACED APPROXIMATELY 12" APART.
  - WIRE FASTENING SHALL BE NO. 13 GAUGE GALVANIZED TIE WIRE.
  - LINE POSTS WIRE FASTENINGS SHALL BE SPACED 14" APART.
  - HORIZONTAL RAILS WIRE FASTENINGS SHALL BE SPACED 24" APART.
  - NO SPLICING SHALL BE ALLOWED ON ALL STRAIGHT-RUN PIPES.
  - TOP AND BOTTOM SELVAGES SHALL BE TWISTED AND BARBED FINISH.
  - AT FENCE END ONLY, EXCLUDE BARBED WIRE EXTENSION ARM AND EXTEND POST. FASTEN BARBED WIRE TO POST.
  - POINT EXTENSION OUTWARD OR AWAY FROM PROPERTY LINE AT AN ANGLE OF 45° FROM VERTICAL.

**CHAIN LINK BARBED WIRE FENCE WITH DOUBLE SWING GATE AND BARBED WIRE**  
1"=2'



APPROVED	
BY	
BRIEF	
DATE	
REVISION	

APPROVED BY \_\_\_\_\_

ENGINEER	
DRAFTSMAN	
CHECKED BY	
SCALE	AS SHOWN
DATE	MAY 2024
DPP FILE NO.	20XX/CP-XXX

**MISCELLANEOUS  
DETAILS - 1**







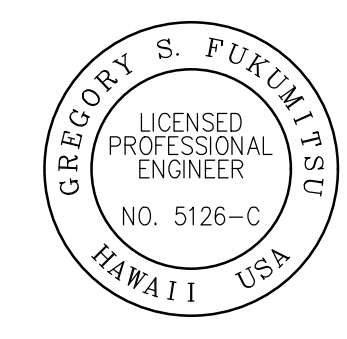




TN: 12-28-20, 12-23-20, 6-17-20, 6-15-20, FINAL TN#20-17, SUB-RVT  
 DATAFILES\DWG\PROJECTS\20-17\DWGS\20-17\_WELL\_OIL-TANK-ENCLOSURE-PIPING\_4-15-2024.dwg  
 RWTG JOB NO: 1-23196-0E

# WAIHOLE WATER SYSTEM IMPROVEMENTS - WELL SITE

  
**R. M. TOWILL CORPORATION**  
 Planning • Engineering • Environmental Services • Project Management • Construction Management  
 2004 North King Street Suite 200  
 Honolulu Hawaii 96815

  
 GREGORY S. FUKUMI, P.E.  
 LICENSED PROFESSIONAL ENGINEER  
 NO. 5126-C  
 HAWAII, USA

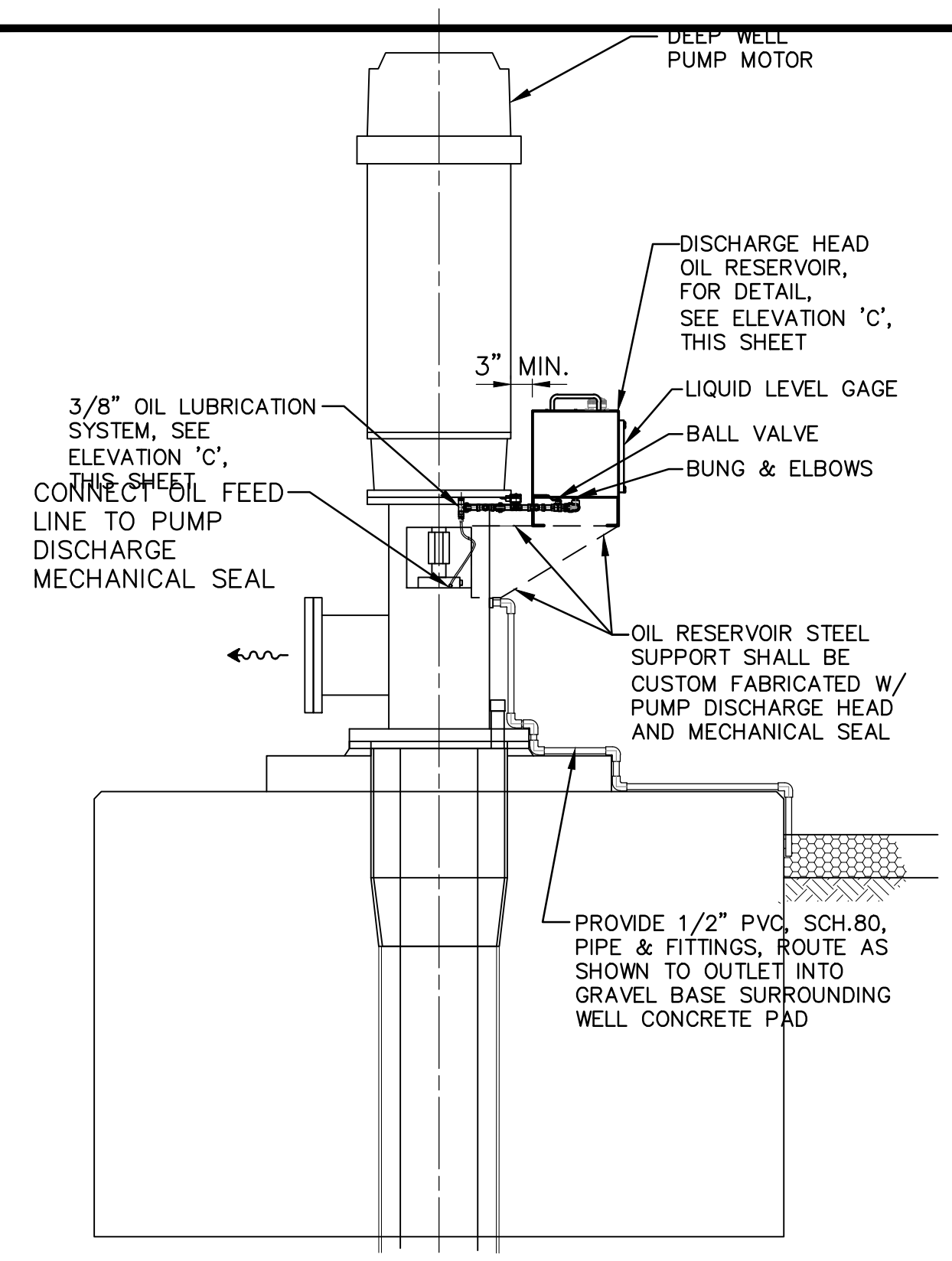
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 SIGNATURE: \_\_\_\_\_ DATE: 4/30/26

NO.	REVISION	DATE	BRIEF	BY	APPROVED

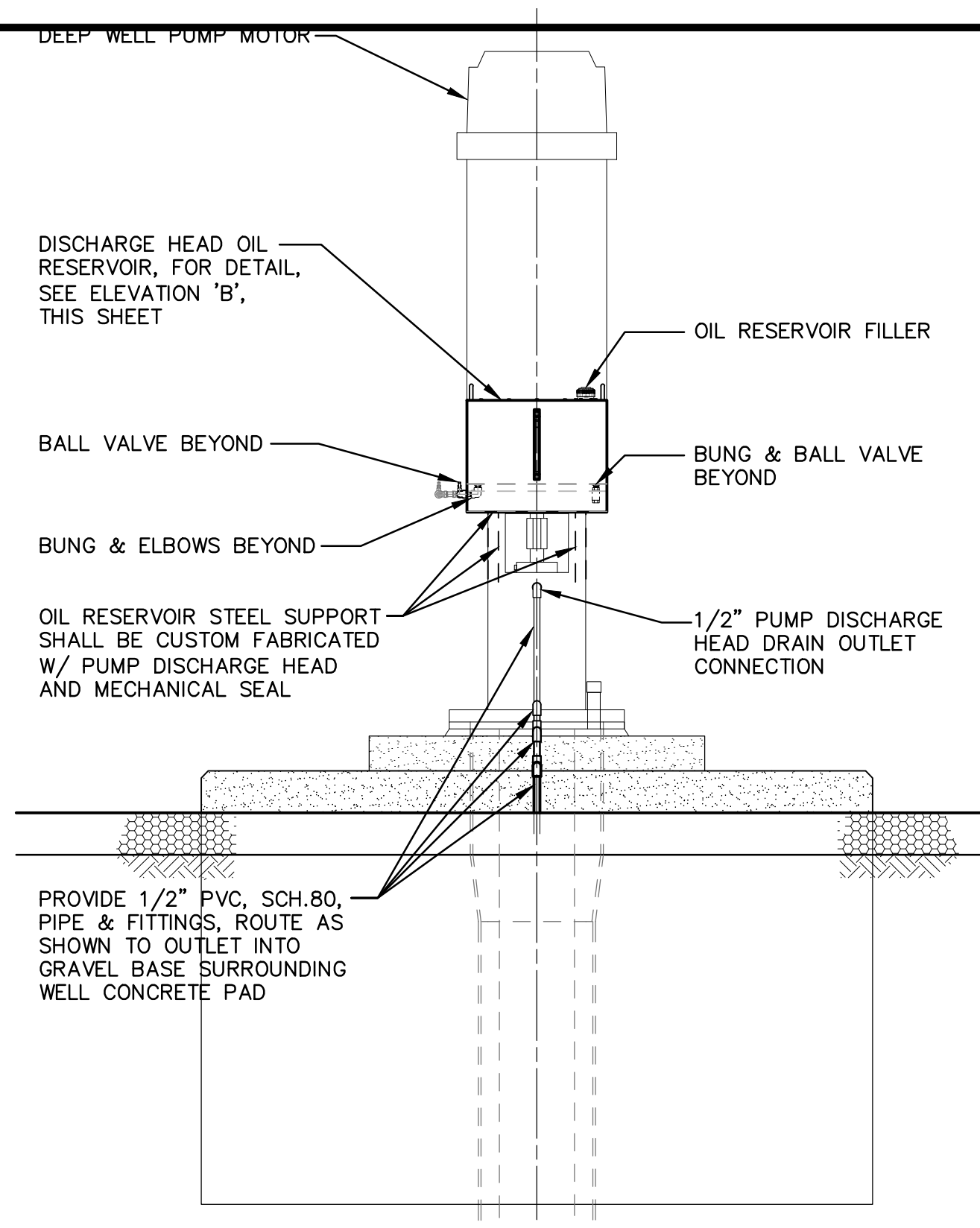
APPROVED BY \_\_\_\_\_

ENGINEER	
DRAFTSMAN	
CHECKED BY	
SCALE	AS SHOWN
DATE	APRIL 2024
DPP FILE NO.	20XX/CP-XXX

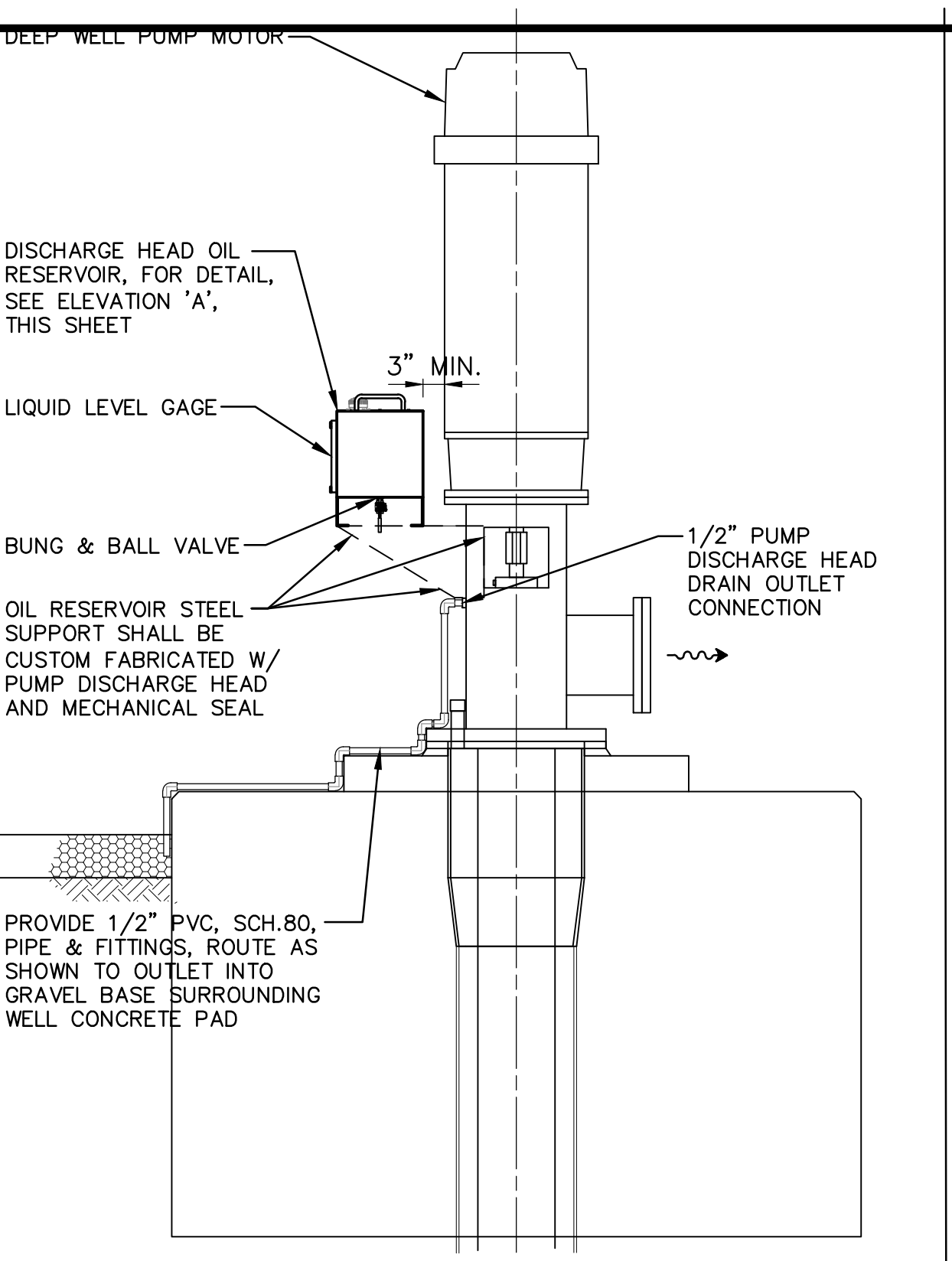
## WELL PUMP DETAILS I



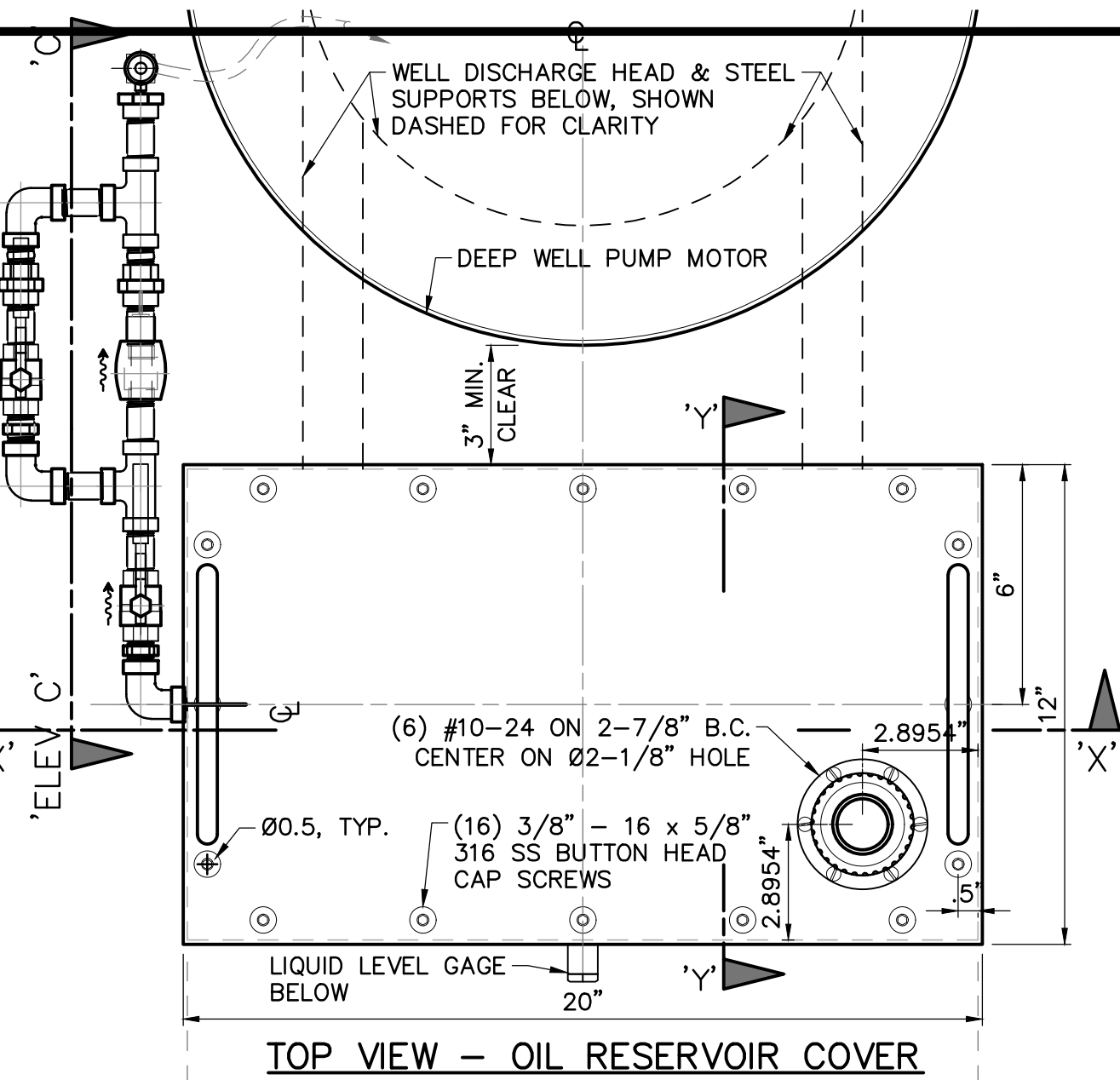
**C 203** PUMP DISCHARGE HEAD W/ OIL LUBRICATION SYSTEM DETAIL  
NOT TO SCALE



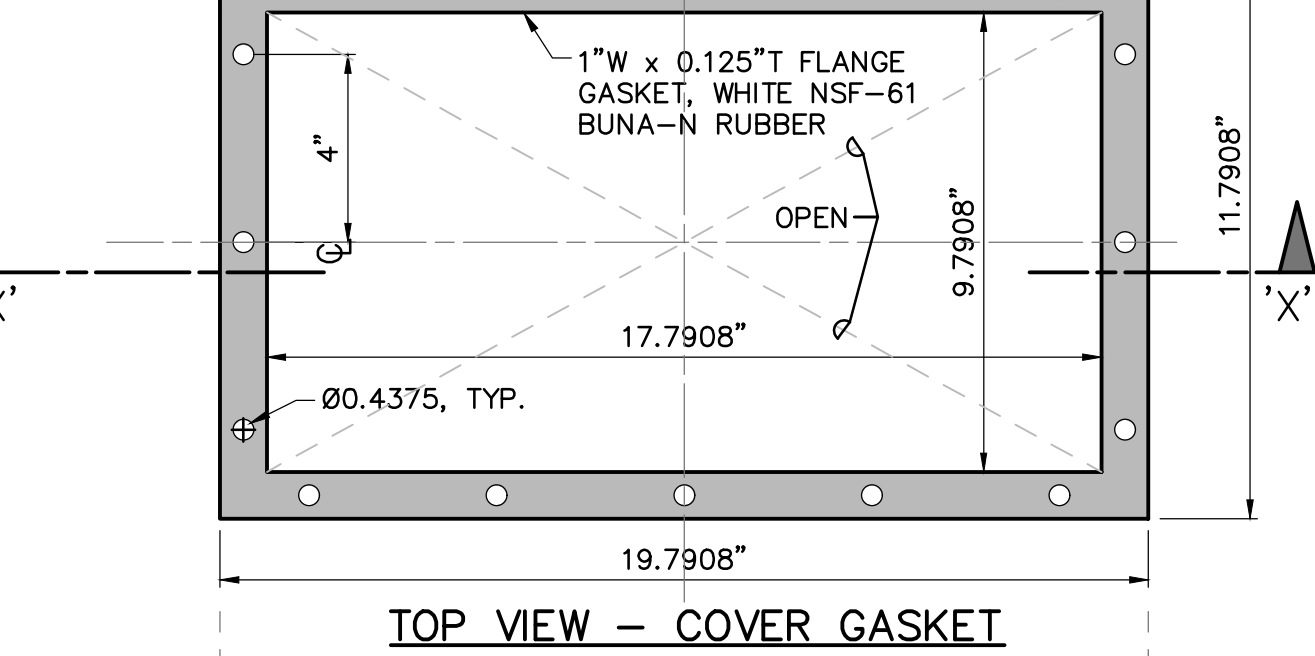
**B 203** PUMP DISCHARGE HEAD W/ OIL LUBRICATION SYSTEM DETAIL  
NOT TO SCALE



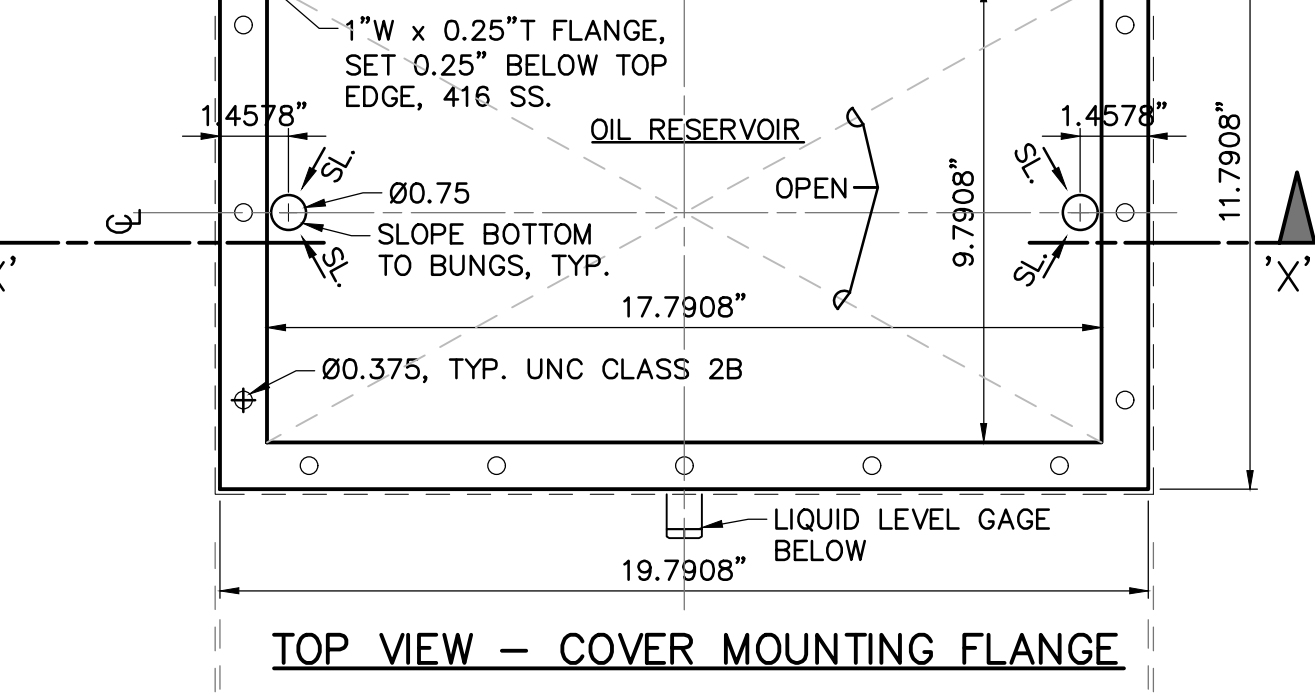
**A 203** PUMP DISCHARGE HEAD W/ OIL LUBRICATION SYSTEM DETAIL  
NOT TO SCALE



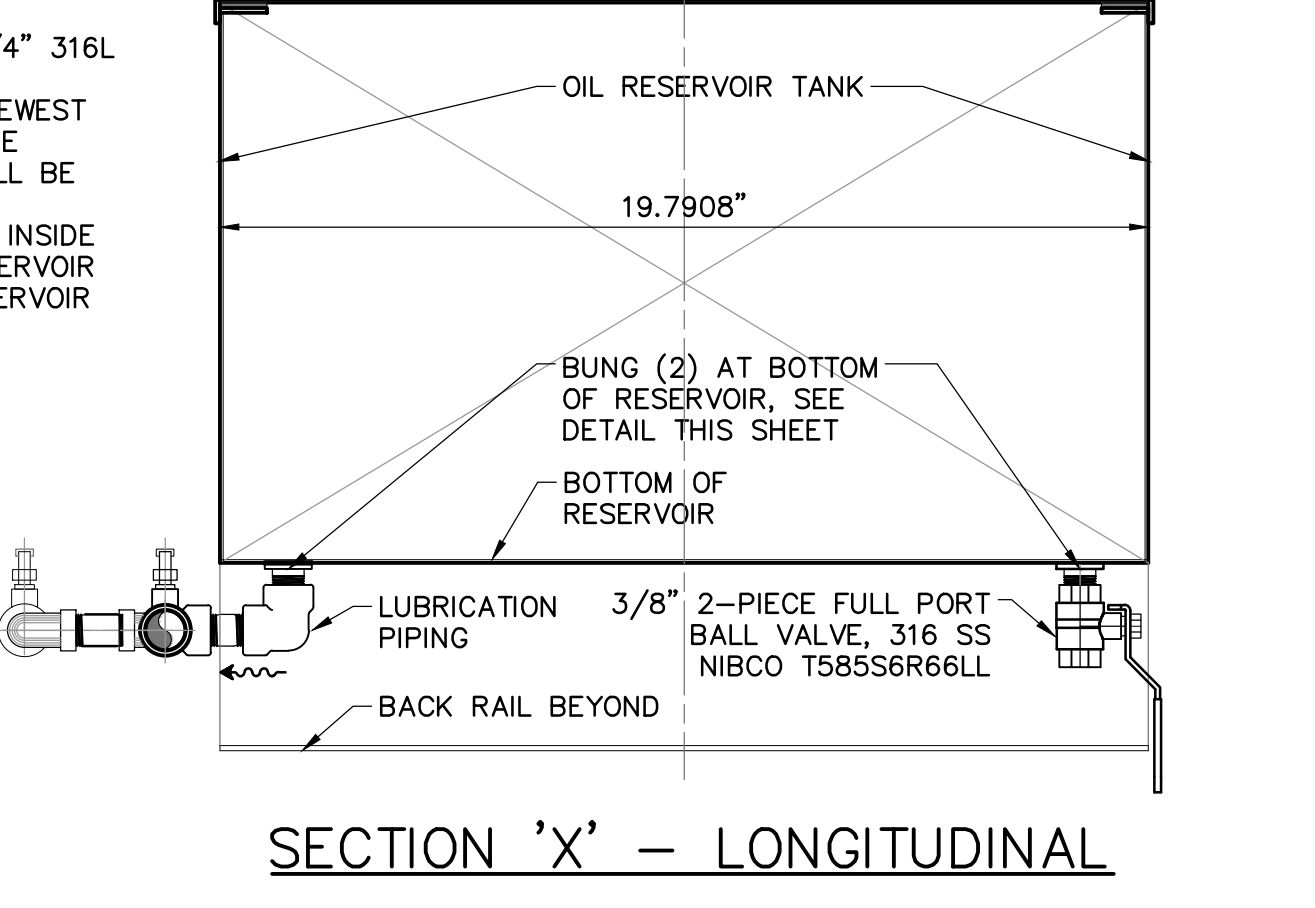
**TOP VIEW - OIL RESERVOIR COVER**



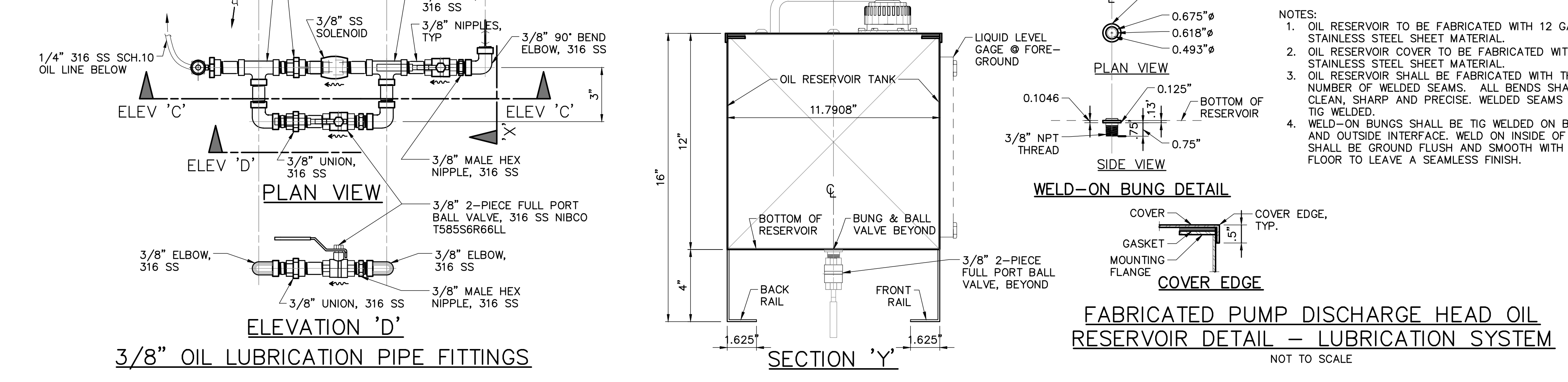
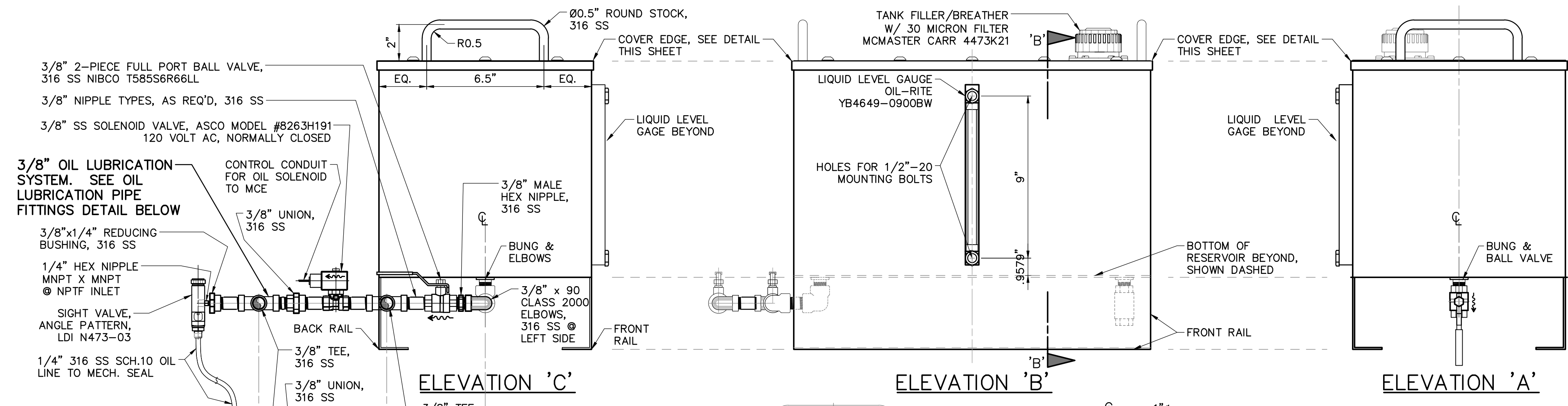
**TOP VIEW - COVER GASKET**



**TOP VIEW - COVER MOUNTING FLANGE**



**SECTION 'X' - LONGITUDINAL**



**3/8" OIL LUBRICATION PIPE FITTINGS** and **SECTION 'Y'**

- NOTES:
- OIL RESERVOIR TO BE FABRICATED WITH 12 GAUGE 316L STAINLESS STEEL SHEET MATERIAL.
  - OIL RESERVOIR COVER TO BE FABRICATED WITH 1/4" 316L STAINLESS STEEL SHEET MATERIAL.
  - OIL RESERVOIR SHALL BE FABRICATED WITH THE FEWEST NUMBER OF WELDED SEAMS. ALL BENDS SHALL BE CLEAN, SHARP AND PRECISE. WELDED SEAMS SHALL BE TIG WELDED.
  - WELD-ON BUNGS SHALL BE TIG WELDED ON BOTH INSIDE AND OUTSIDE INTERFACE. WELD ON INSIDE OF RESERVOIR SHALL BE GROUND FLUSH AND SMOOTH WITH RESERVOIR FLOOR TO LEAVE A SEAMLESS FINISH.



























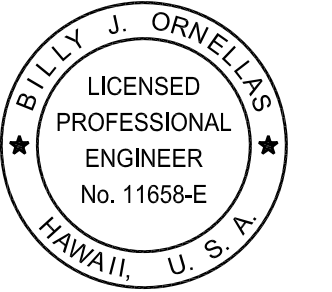




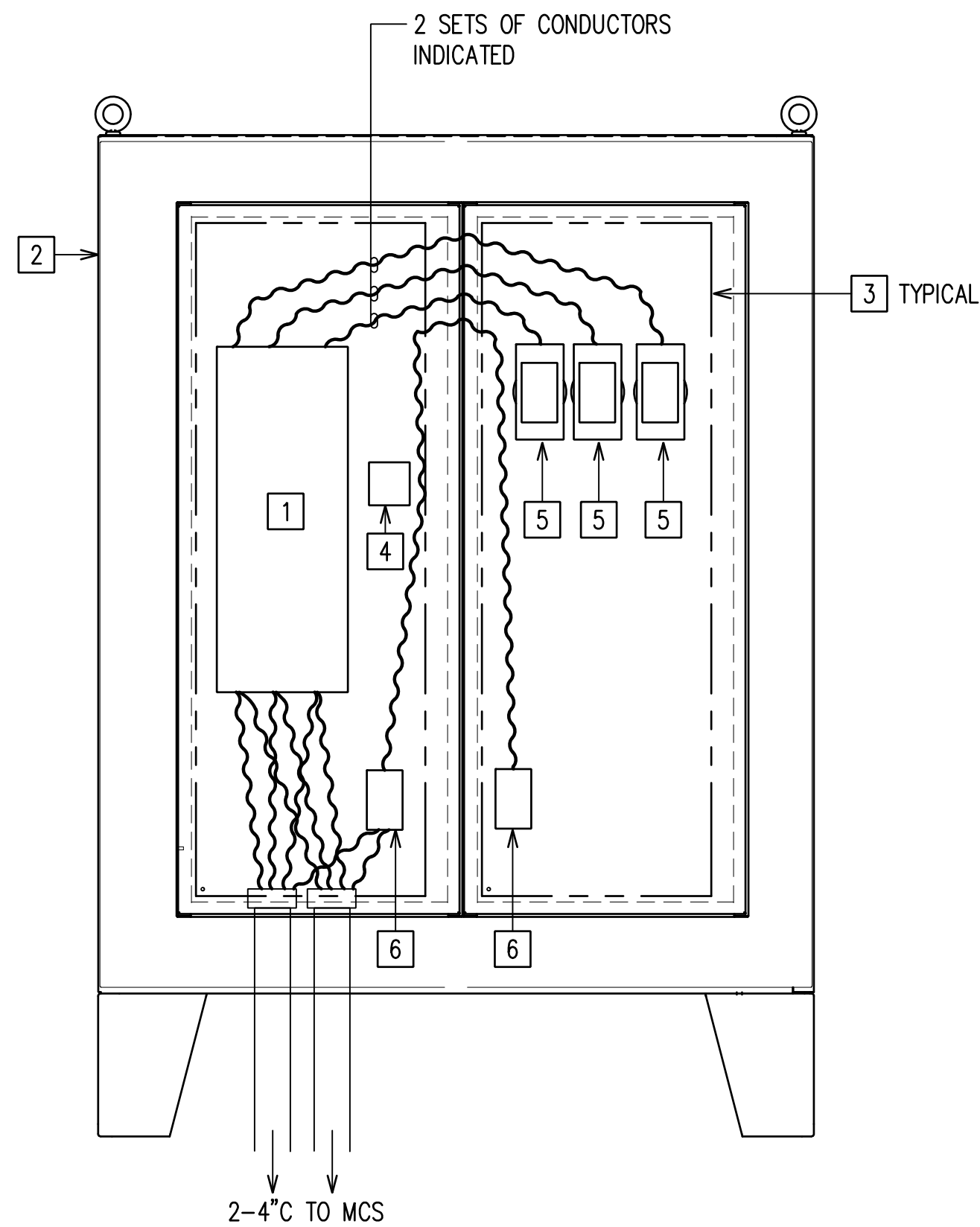


WAIHOLE WATER SYSTEM IMPROVEMENTS - WELL SITE

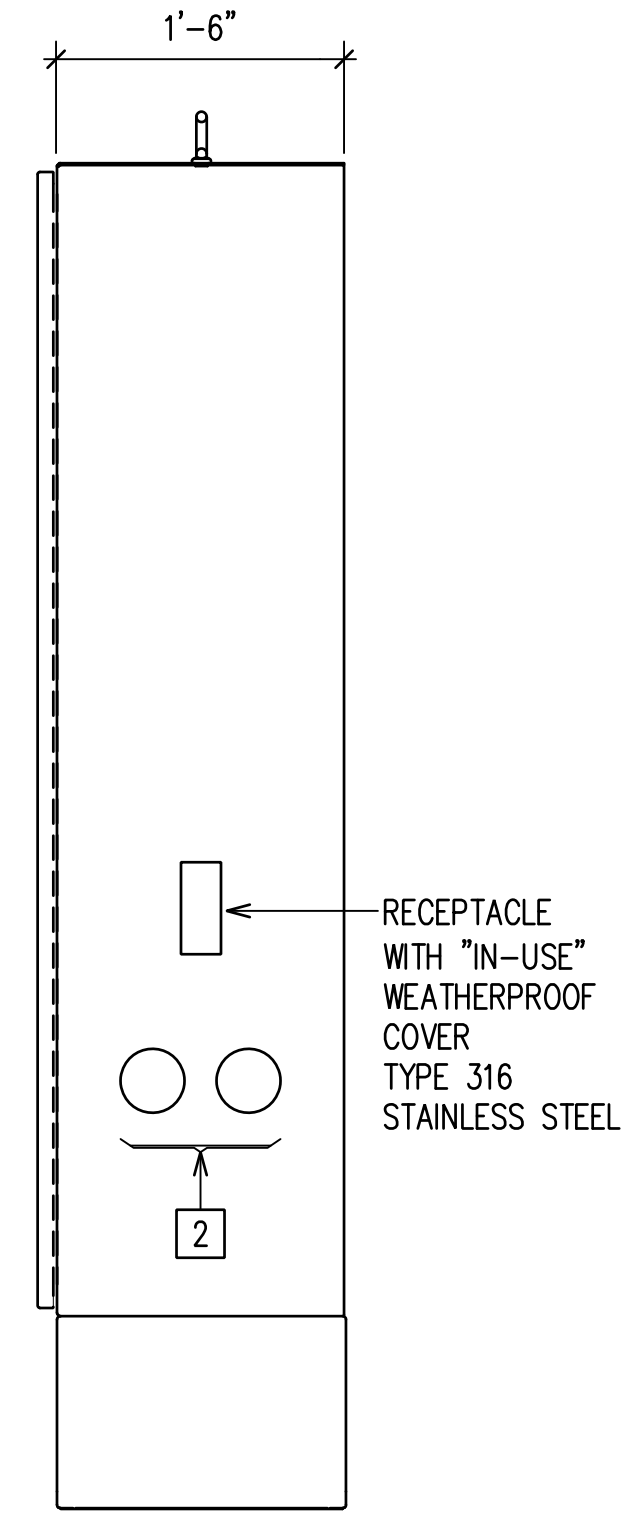
**R. M. TOWILL CORPORATION**  
 Planning • Engineering • Environmental Services • Programming • Surveying • Construction Management  
 2004 North King Street, Suite 200  
 Honolulu, Hawaii 96819



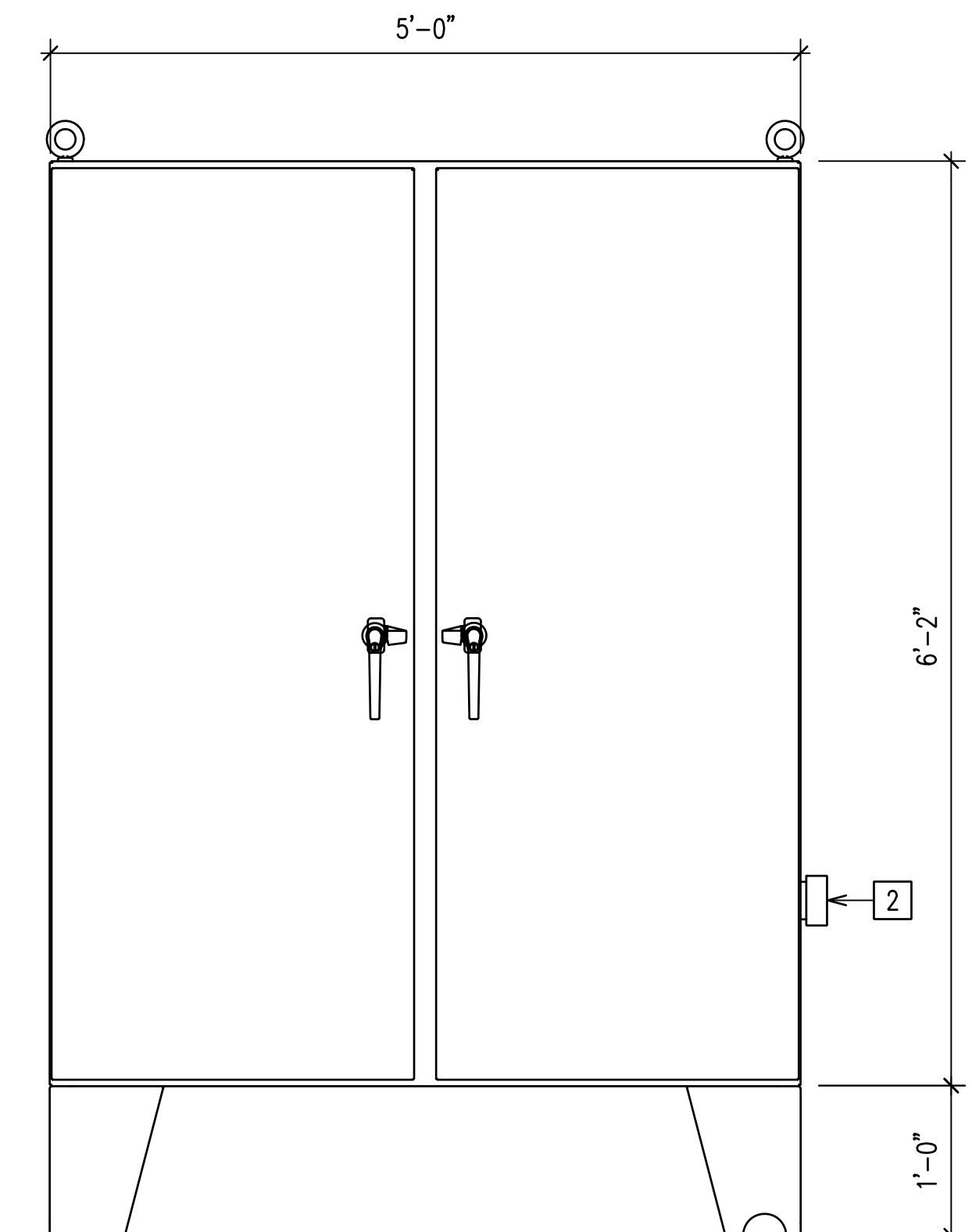
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT SHALL BE UNDER MY OBSERVATION.  
 SIGNATURE: *[Signature]* 2024.04.29 4/30/26  
 DATE: 4/30/26



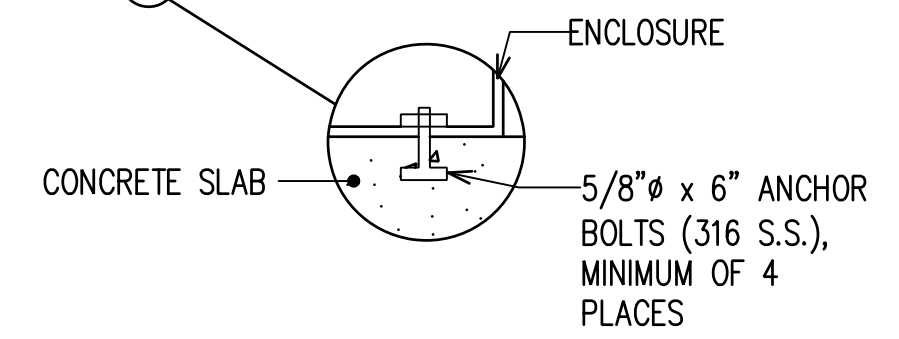
INTERIOR



SIDE VIEW



FRONT VIEW

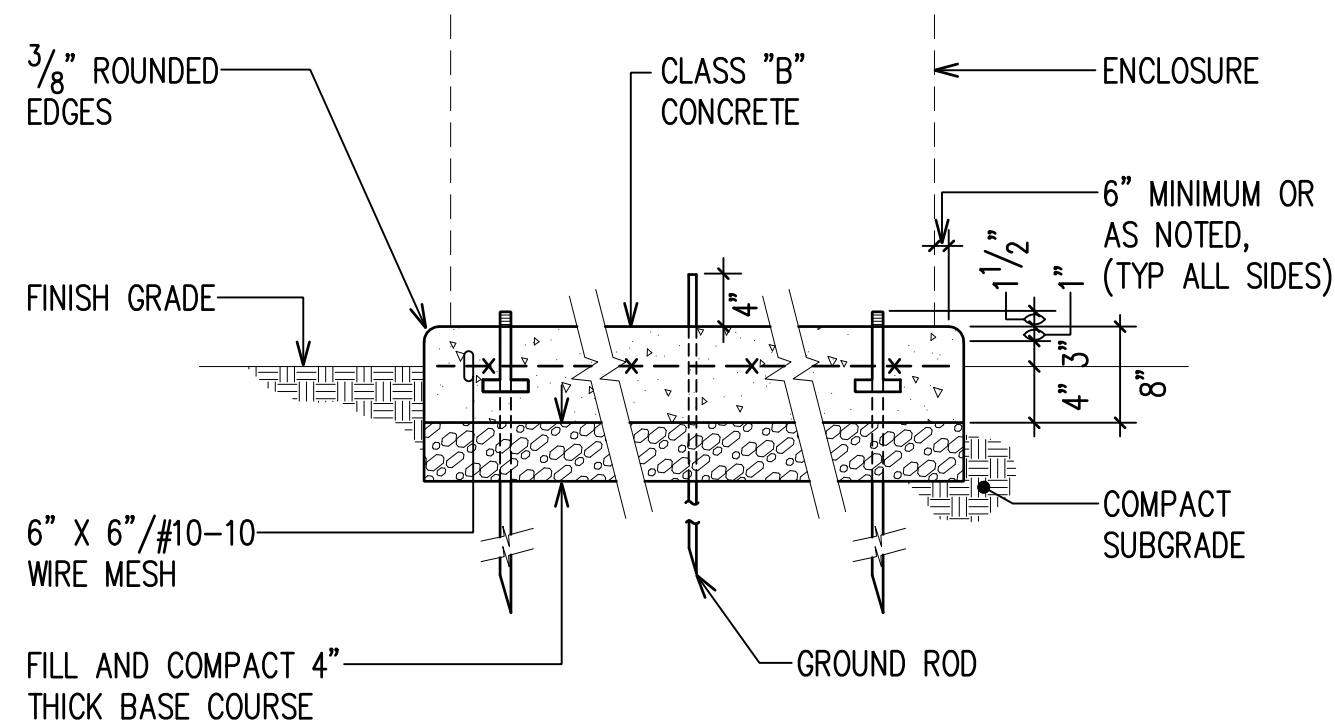


NOTE(S):

- 1 CIRCUIT BREAKER
- 2 NEMA 4X STAINLESS STEEL FREE STANDING ENCLOSURE, SEE DETAIL
- 3 INTERIOR MOUNTING PANEL
- 4 ELECTRONIC HYGROTHERM, ADJUSTABLE HUMIDITY (50%-90% RH) AND TEMPERATURE (32-140F) SET POINTS, HIGH SWITCHING CAPACITY, CHANGE-OVER CONTACT, CONNECTION: 5-POLE TERMINAL FOR AWG 14 MX (2.5 MM SQUARE). CONNECTED TO 120V STRIP HEATERS. PENTAIR ATEMHUM OR APPROVAL EQUAL
- 5 MECHANICAL LUGS (ILSCO #PB4-750-2N) MOUNTED ON A COPPER BUS BAR; PROVIDE 2-INCH STANDOFF INSULATORS FROM BACK OF CABINET
- 6 MECHANICAL LUG FOR GROUND CONNECTION

NOTE(S):

1. 74" X 60" X 18" NEMA 4X 316 STAINLESS STEEL, FREE STANDING ENCLOSURE. CONTINUOUSLY WELDED, REMOVABLE CENTER POST, TAMPER RESISTANT HANDLES WITH 3 POINT OPERATING MECHANISM, HOFFMAN A76018SS6LP3PT OR APPROVED EQUAL
2. TWO 4" 316 STAINLESS STEEL THREADED HUB WITH 316 STAINLESS STEEL CONDUIT CAP
3. PROVIDE CONCRETE EQUIPMENT PAD. SEE DETAIL ON THIS SHEET. SIZE CONCRETE PAD 6'-0" L X 30" W.



NOTE: CONCRETE PAD SHALL BE ADJUSTED TO FIT EQUIPMENT ENCLOSURE AT NO EXTRA CHARGE TO THE OWNER.

2 CONCRETE PAD DETAIL  
 E403 NOT TO SCALE

1 PORTABLE GENERATOR TERMINATION CABINET  
 E403 NOT TO SCALE

NO.	REVISION	DATE	BY	APPROVED

APPROVED BY

ENGINEER	BO
DRAFTSMAN	CAD
CHECKED BY	BO
SCALE	AS SHOWN
DATE	APRIL 2024
DPP FILE NO.	2020/CP-XX

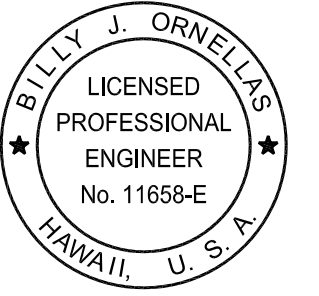
PORTABLE GENERATOR TERMINATION CABINET

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WAIHOLE  
WATER SYSTEM  
IMPROVEMENTS -  
WELL SITE



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Honolulu, Hawaii 96819



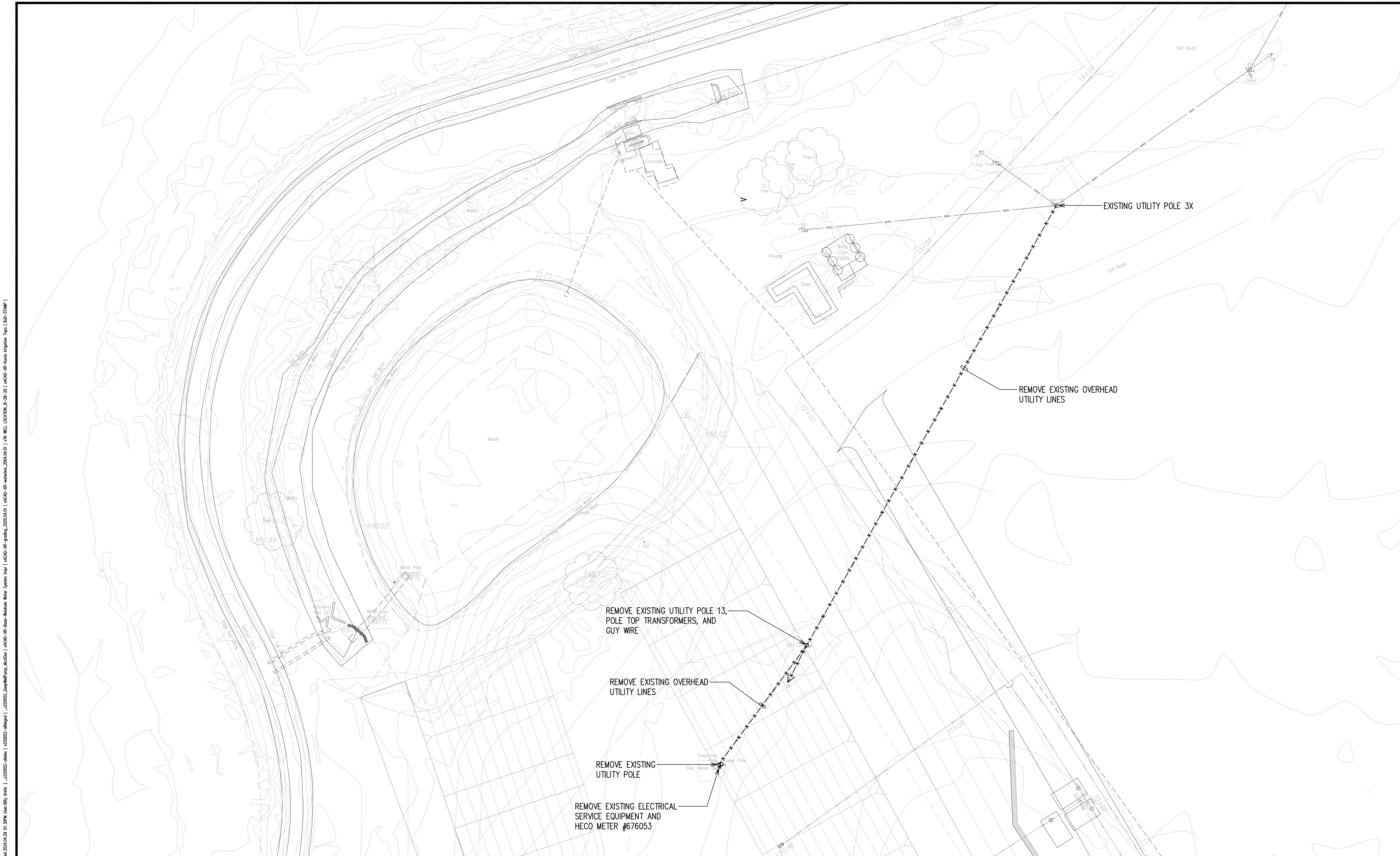
THIS WORK WAS PREPARED BY ME OR UNDER  
MY SUPERVISION AND CONSTRUCTION OF THIS  
PROJECT WILL BE UNDER MY OBSERVATION.

*[Signature]* 4/30/26  
SIGNATURE DATE EXP. DATE

NO.	REVISION	DATE	BRIEF	BY	APPROVED

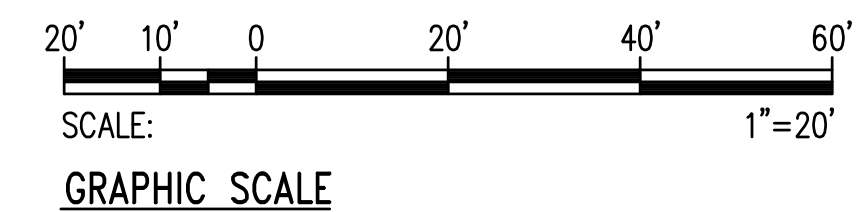
APPROVED BY	
ENGINEER	BO
DRAFTSMAN	CAD
CHECKED BY	BO
SCALE	AS SHOWN
DATE	APRIL 2024
DPP FILE NO.	2020/CP-XX

EXISTING RESERVOIR  
ELECTRICAL SITE PLAN



NOTES:  
1. COORDINATE REMOVAL OF EQUIPMENT WITH HECO.

**1** EXISTING RESERVOIR ELECTRICAL SITE PLAN  
E501 SCALE: 1"=20'



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