

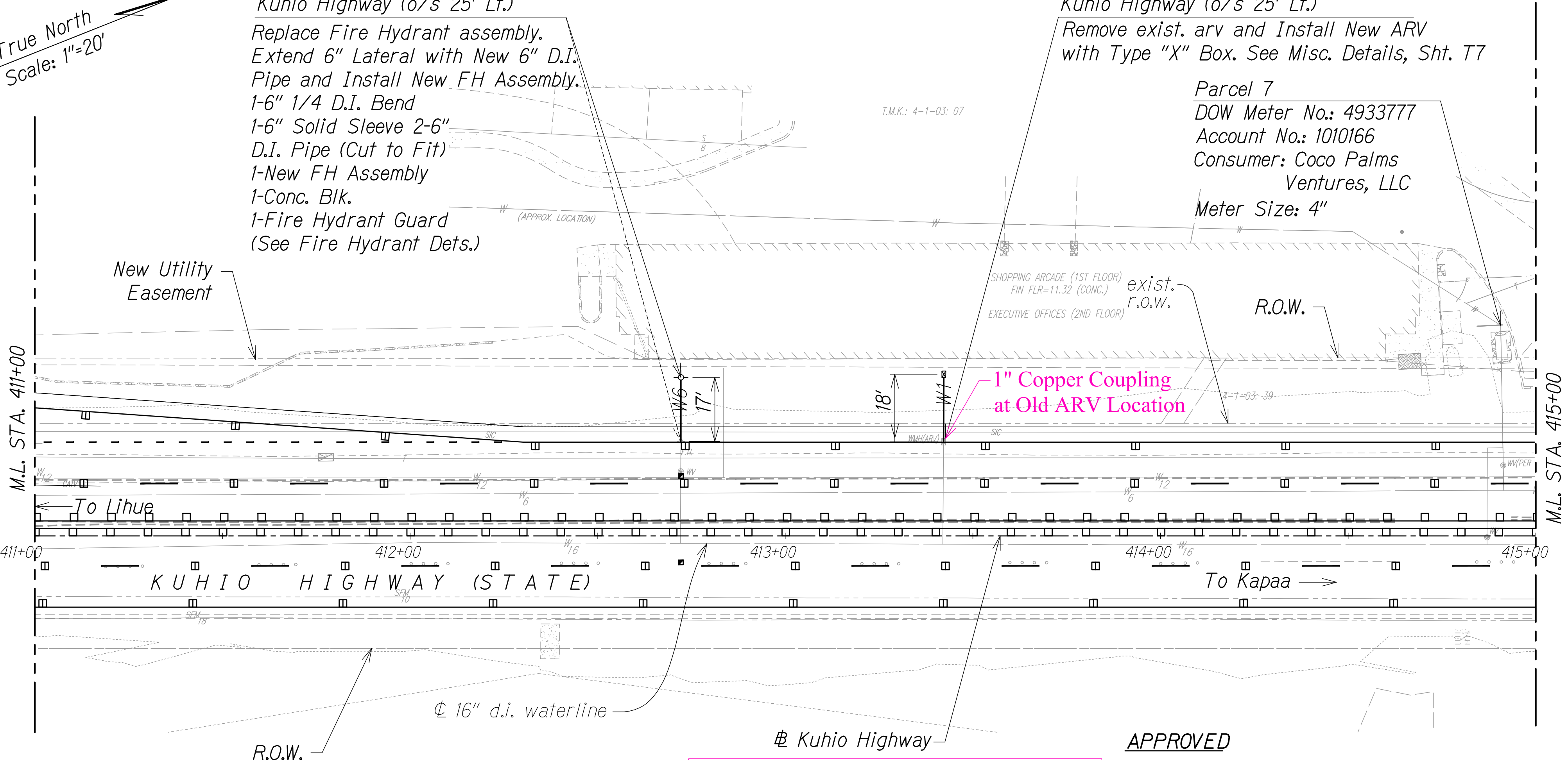
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUA1	HAW.	NH-056-1(50)	2019	C.O.ADD.56	244

True North
Scale: 1"=20'

Sta. 412+72
Kuhio Highway (o/s 25' Lt.)
Replace Fire Hydrant assembly.
Extend 6" Lateral with New 6" D.I.
Pipe and Install New FH Assembly.
1-6" 1/4 D.I. Bend
1-6" Solid Sleeve 2-6"
D.I. Pipe (Cut to Fit)
1-New FH Assembly
1-Conc. Blk.
1-Fire Hydrant Guard
(See Fire Hydrant Dets.)

Sta. 413+42
Kuhio Highway (o/s 25' Lt.)
Remove exist. arv and Install New ARV
with Type "X" Box. See Misc. Details, Sht. T7

Parcel 7
DOW Meter No.: 4933777
Account No.: 1010166
Consumer: Coco Palms
Ventures, LLC
Meter Size: 4"



LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

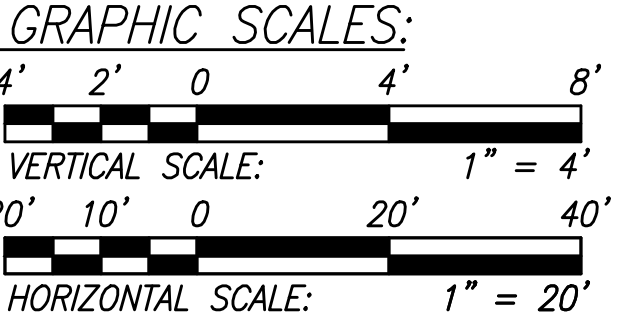
Roadway Text for as-built posting

APPROVED

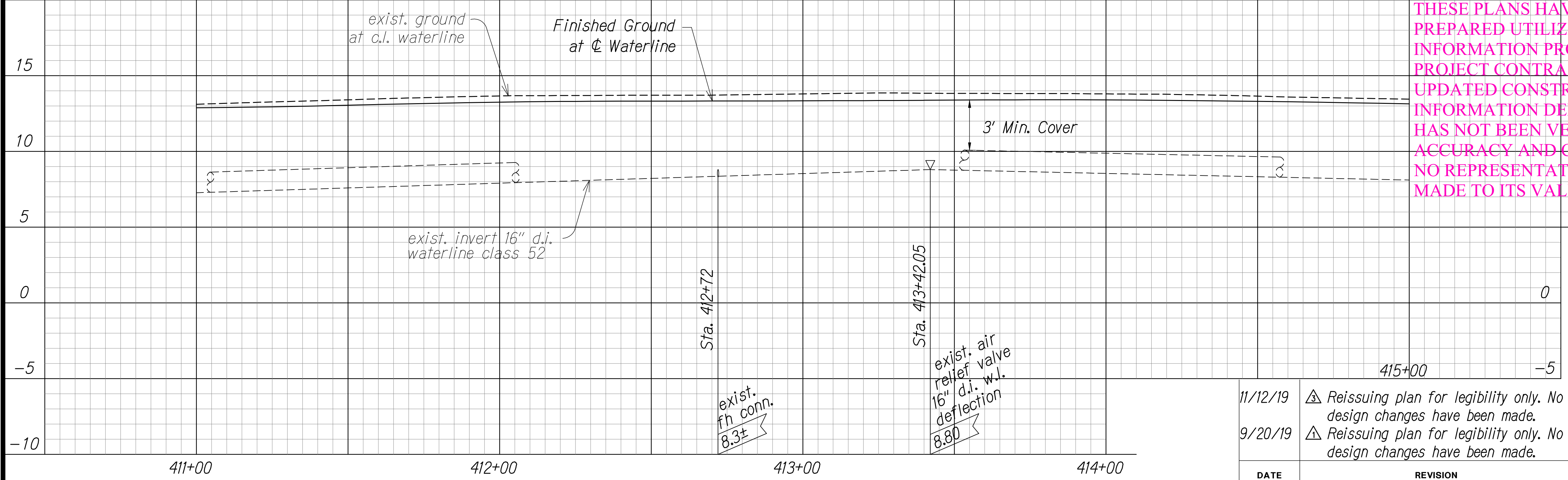
Manager and Chief Engineer
Department of Water,
County of Kauai

Date

- Notes:**
- D.I. pipe and fittings shall be double wrapped with polyethylene.
 - Contractor shall abandon pipe in place. All unused pipe shall be removed and disposed and trench shall be backfilled and restored.
 - Contractor shall maintain water service at all times except for scheduled shutdowns for connections.
 - Existing Fire Hydrants shall be removed, cleaned, and returned to Department of Water's baseyard in Lihue.
 - The Fire Department shall be notified whenever a fire hydrant is placed out of and returned to service.
 - Install "Megalug" retainer glands at all MJ end fittings.
 - The Right-of-Way and all relevant property corners at the service lateral and fire hydrant locations shall be surveyed and marked by a licensed surveyor prior to construction. Incidental to Section 624.



SURVEY PLOTTED BY	DATE
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TRACED BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	



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WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

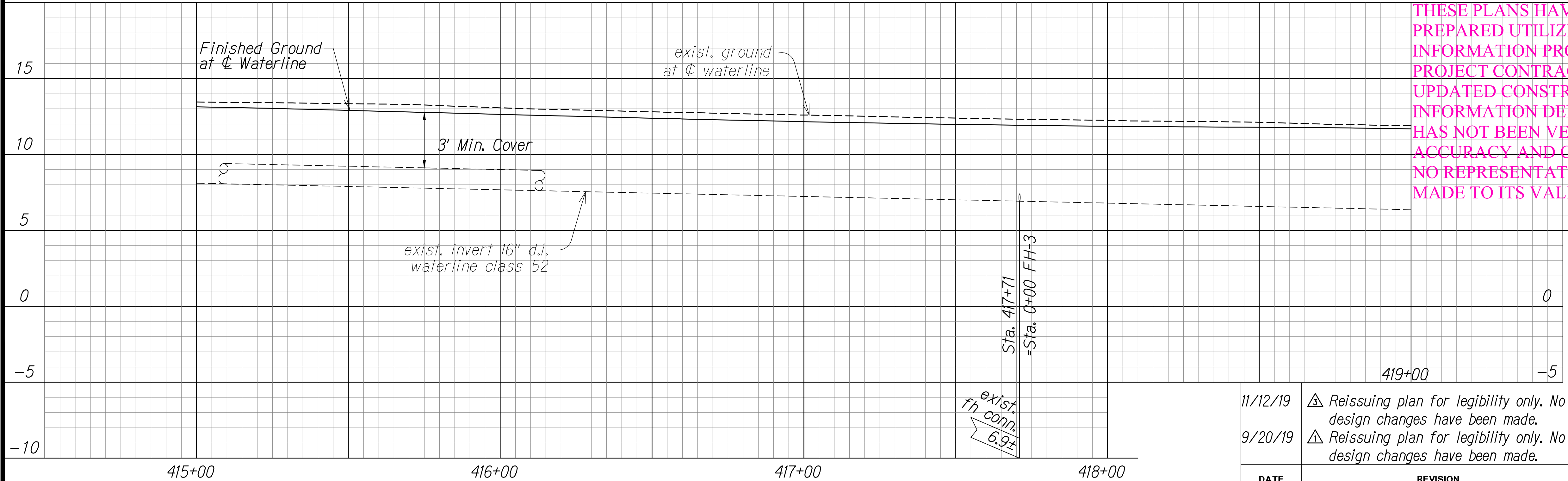
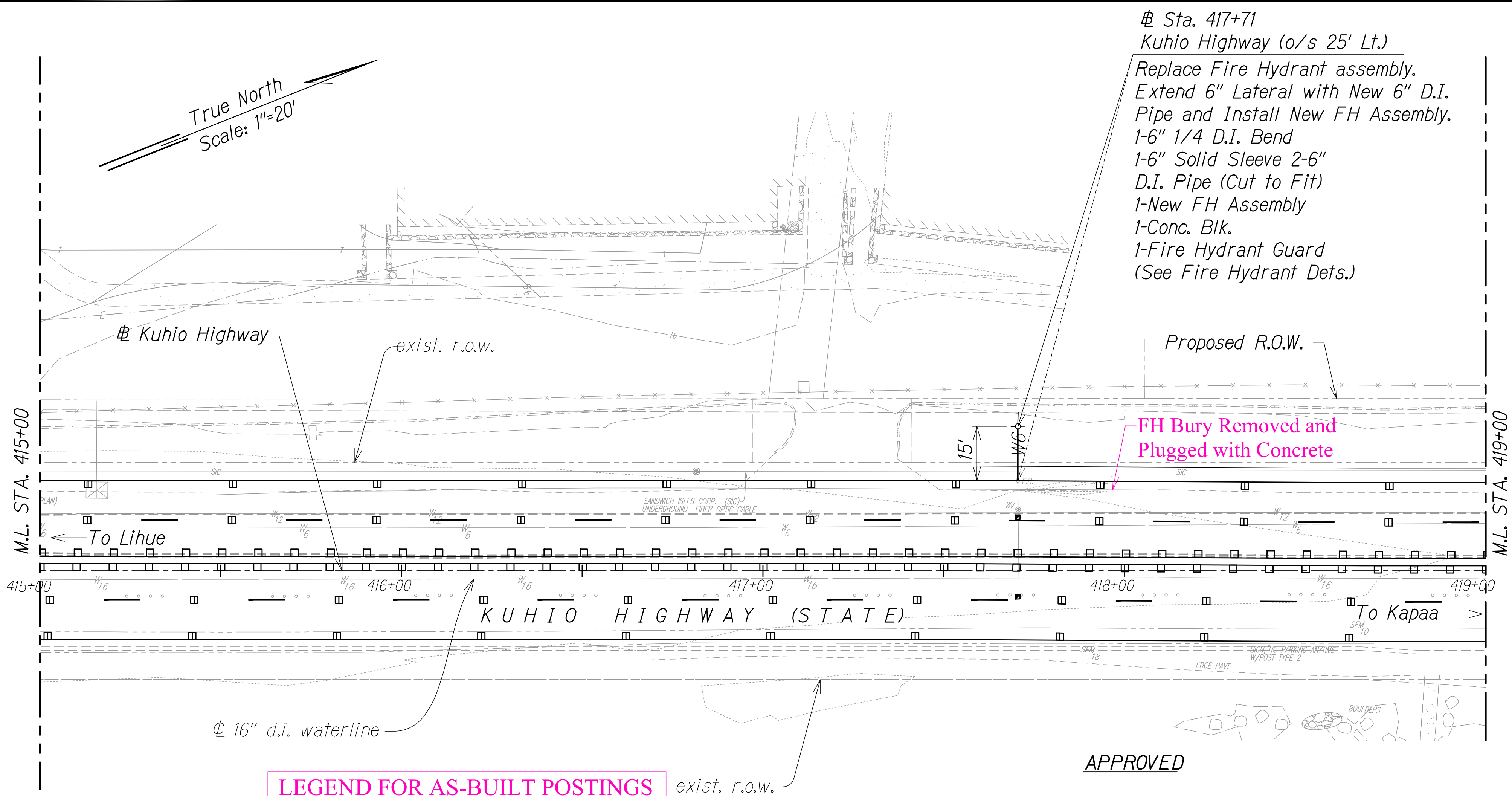
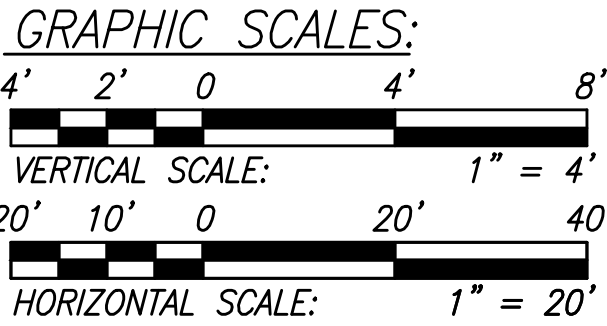
UTILITY PLAN

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. UP2 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUA1	HAW.	NH-056-K(50)	2019	C.O.ADD.57	244

- Notes:
1. D.I. pipe and fittings shall be double wrapped with polyethylene.
 2. Contractor shall abandon pipe in place. All unused pipe shall be removed and disposed and trench shall be backfilled and restored.
 3. Contractor shall maintain water service at all times except for scheduled shutdowns for connections.
 4. Existing Fire Hydrants shall be removed, cleaned, and returned to Department of Water's baseyard in Lihue.
 4. The Fire Department shall be notified whenever a fire hydrant is placed out of and returned to service.
 5. Install "Megalug" retainer glands at all MJ end fittings.
 6. The Right-of-Way and all relevant property corners at the service lateral and fire hydrant locations shall be surveyed and marked by a licensed surveyor prior to construction. Incidental to Section 624.



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WILSON OKAMOTO CORPORATION LIC. EXP. DATE

APRIL 30, 2020

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY PLAN

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-K(50)
Scale: As Noted Date: July 2019

SHEET No. UP3 OF 11 SHEETS

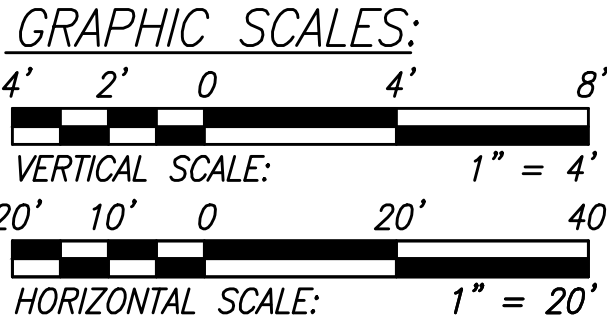
"AS-BUILT"

C.O.ADD.57

SURVEY PLOTTED BY	DATE
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TRACED BY	
CHECKED BY	
QUANTITIES BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUA1	HAW.	NH-056-1(50)	2019	C.O.ADD.58	244

- Notes:
1. D.I. pipe and fittings shall be double wrapped with polyethylene.
 2. Contractor shall abandon pipe in place. All unused pipe shall be removed and disposed and trench shall be backfilled and restored.
 3. Contractor shall maintain water service at all times except for scheduled shutdowns for connections.
 4. Existing Fire Hydrants shall be removed, cleaned, and returned to Department of Water's baseyard in Lihue.
 4. The Fire Department shall be notified whenever a fire hydrant is placed out of and returned to service.
 5. Install "Megalug" retainer glands at all MJ end fittings.
 6. The Right-of-Way and all relevant property corners at the service lateral and fire hydrant locations shall be surveyed and marked by a licensed surveyor prior to construction. Incidental to Section 624.



APPROVED

Manager and Chief Engineer
Department of Water,
County of Kauai

Date

Chief, Division of Wastewater Management

Date

DOW Meter No.: 03000341
Account No.: 1010032
Consumer: Parks Division
Meter Size: 5/8"

DOW Meter No.: 97000011
Account No.: 1010071
Consumer: Coco Palms
Ventures, LLC
Meter Size: 5/8"

DOW Meter No.: 88020003
Account No.: 1015875
Consumer: Wailua Bayview Association
Meter Size: 2"

FH Bury
Removed and
Plugged with
Concrete

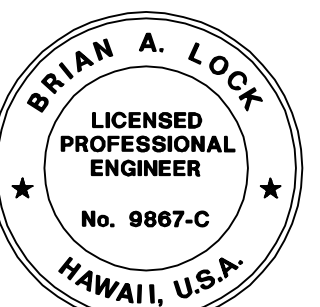
Install 10 LF, 6" Thk.
RC Jacket for exist.
8" sewer main Centered
on Relocated FH

DOW Meter No.: 9015
Account No.: 1015875
Consumer: Wailua Bayview
Association
Meter Size: 2"

LEGEND FOR AS-BUILT POSTINGS

- ~~~~~ Squiggly line for as-built deletion
- ==== Double line for as-built deletion
- Roadway Text for as-built posting

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UTILIZING INFORMATION PROVIDED
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INFORMATION DEPICTED HEREIN
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY PLAN

KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. UP4 OF 11 SHEETS

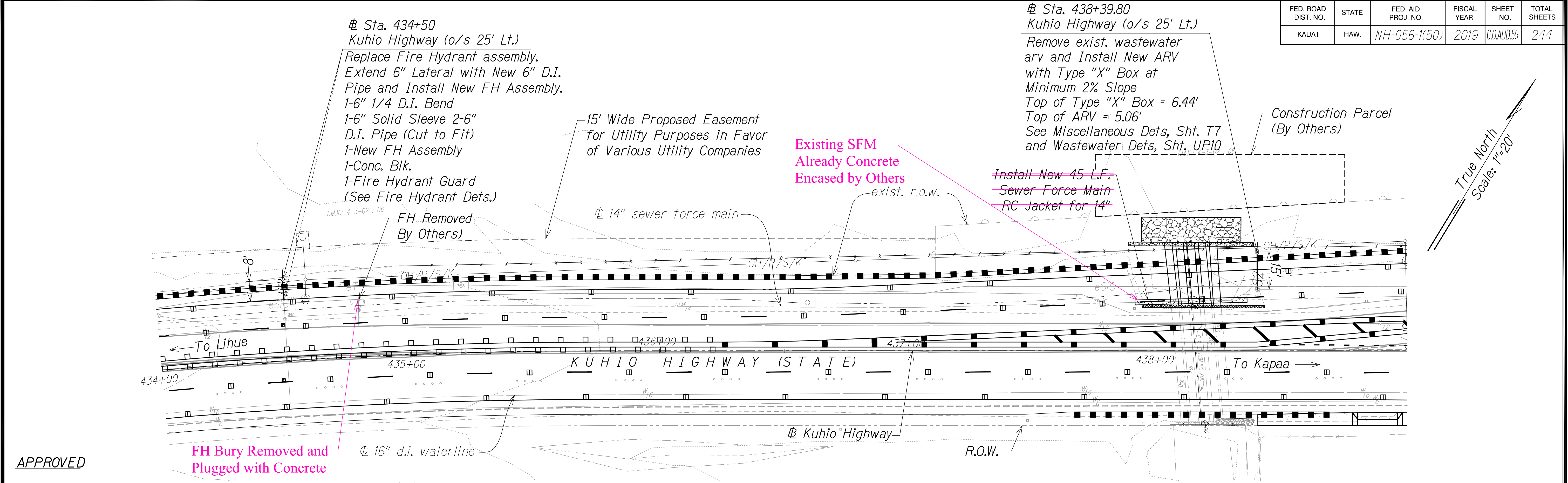
11/12/19	△ Reissuing plan for legibility only. No design changes have been made.
9/20/19	△ Reissuing plan for legibility only. No design changes have been made.

DATE REVISION

"AS-BUILT"

C.O.ADD.58

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUA1	HAW.	NH-056-1(50)	2019	C.O.ADD.59	244



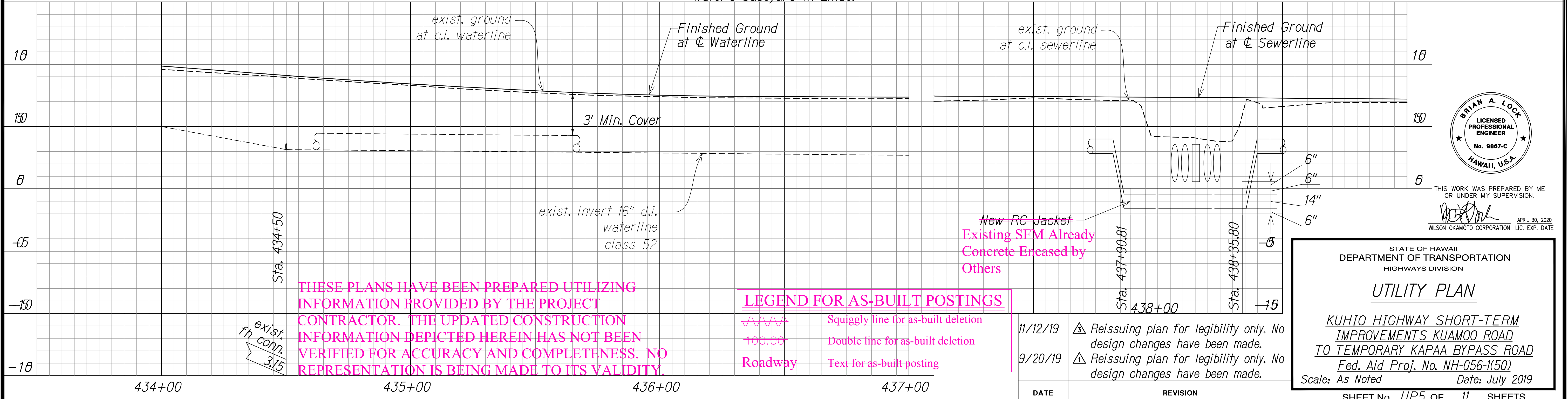
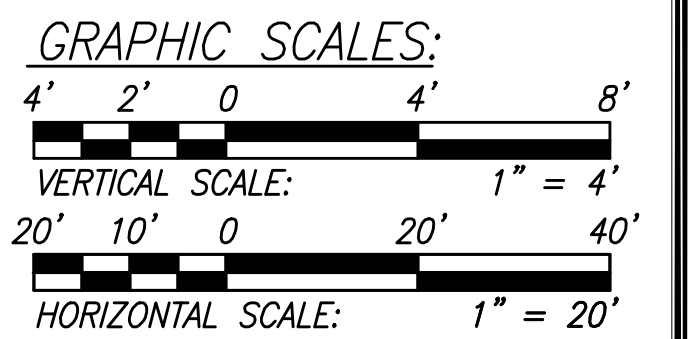
APPROVED

Manager and Chief Engineer
Department of Water,
County of Kauai
Date

Chief, Division of Wastewater Management
Date

Notes:

- D.I. pipe and fittings shall be double wrapped with polyethylene.
- Contractor shall abandon pipe in place. All unused pipe shall be removed and disposed and trench shall be backfilled and restored.
- Contractor shall maintain water service at all times except for scheduled shutdowns for connections.
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LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting

DATE	REVISION
11/12/19	Reissuing plan for legibility only. No design changes have been made.
9/20/19	Reissuing plan for legibility only. No design changes have been made.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY PLAN

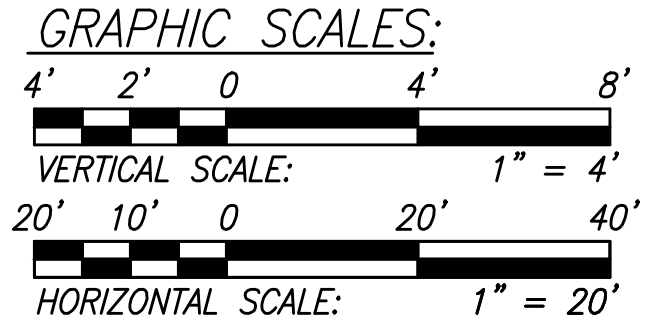
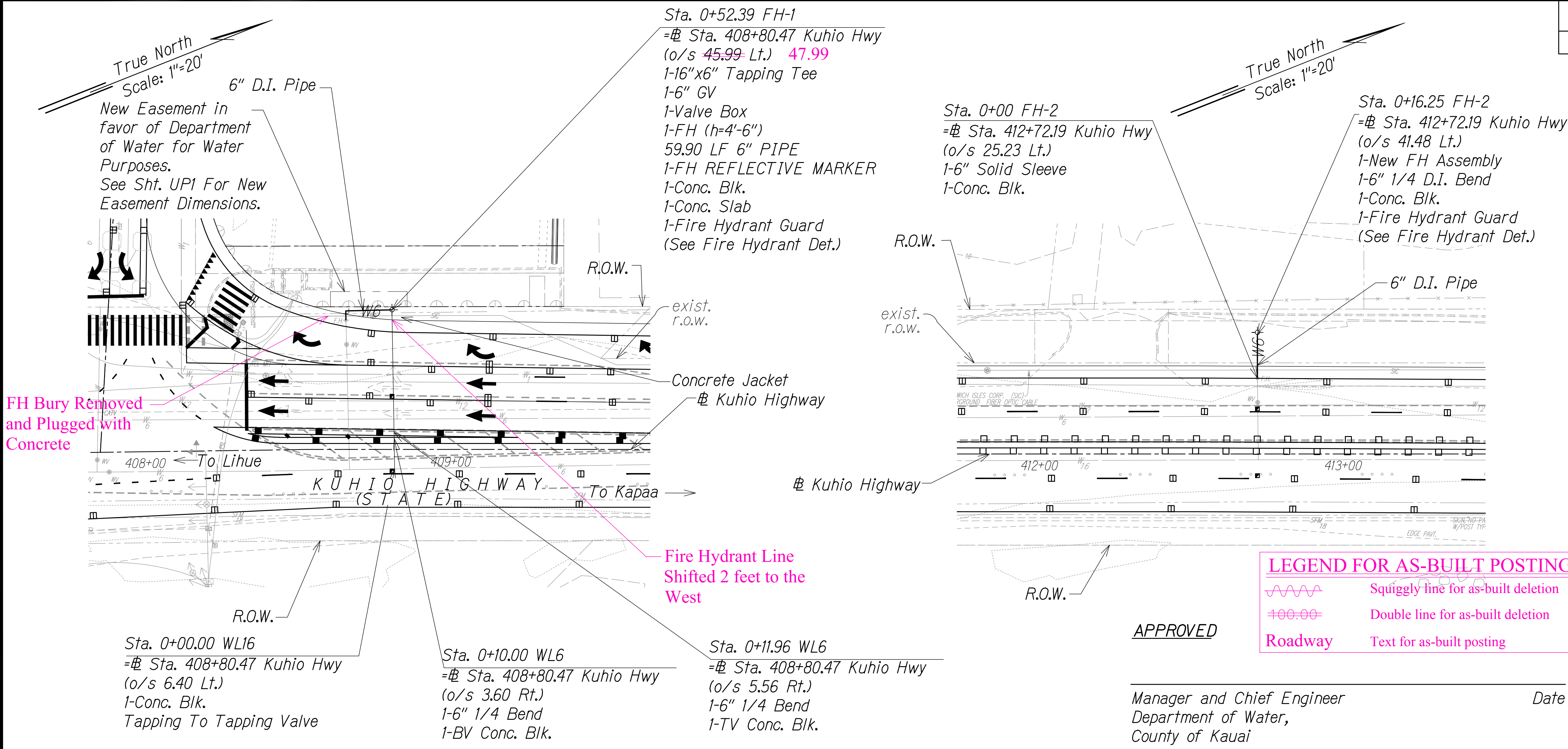
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. UP5 OF 11 SHEETS

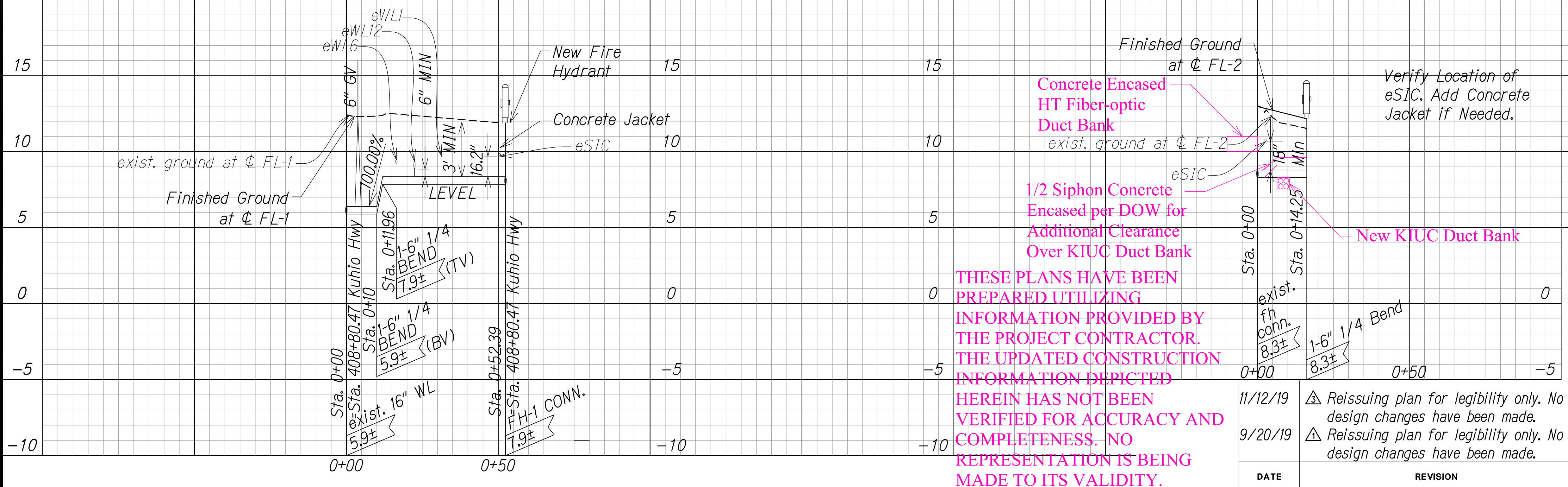
"AS-BUILT"

C.O.ADD.59

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUA1	HAW.	NH-056-1(50)	2019	C.O.ADD.60	244



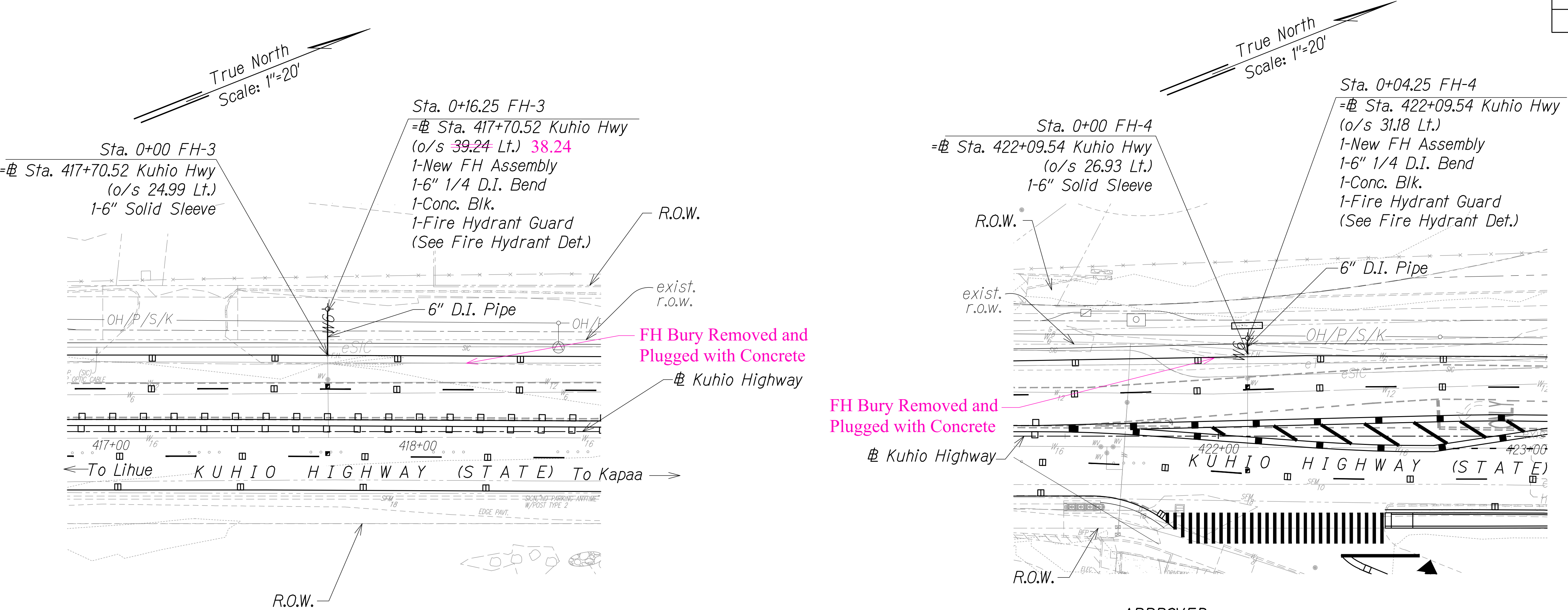
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
No.	



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WILSON OKAMOTO CORPORATION LIC. EXP. DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUA1	HAW.	NH-056-1(50)	2019	C.O.ADD.61	244



LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

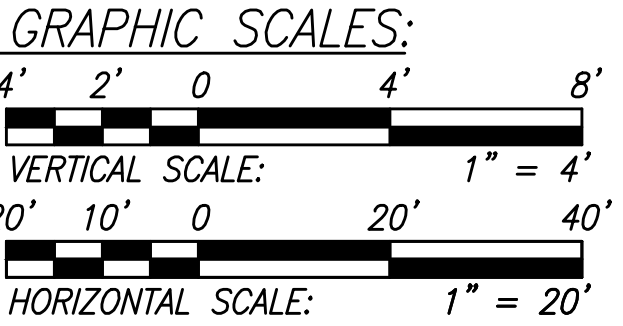
Roadway Text for as-built posting

APPROVED

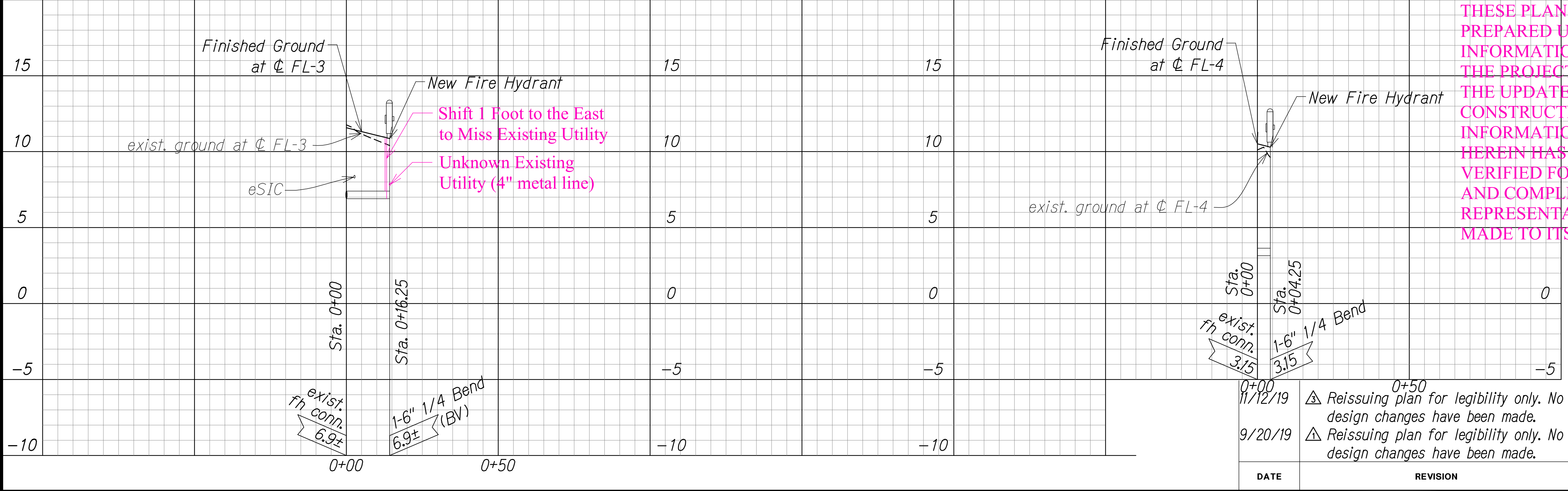
Manager and Chief Engineer
Department of Water,
County of Kauai

Date

- Notes:
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SURVEY PLOTTED BY	DATE
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CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
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[Signature] APRIL 30, 2020
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

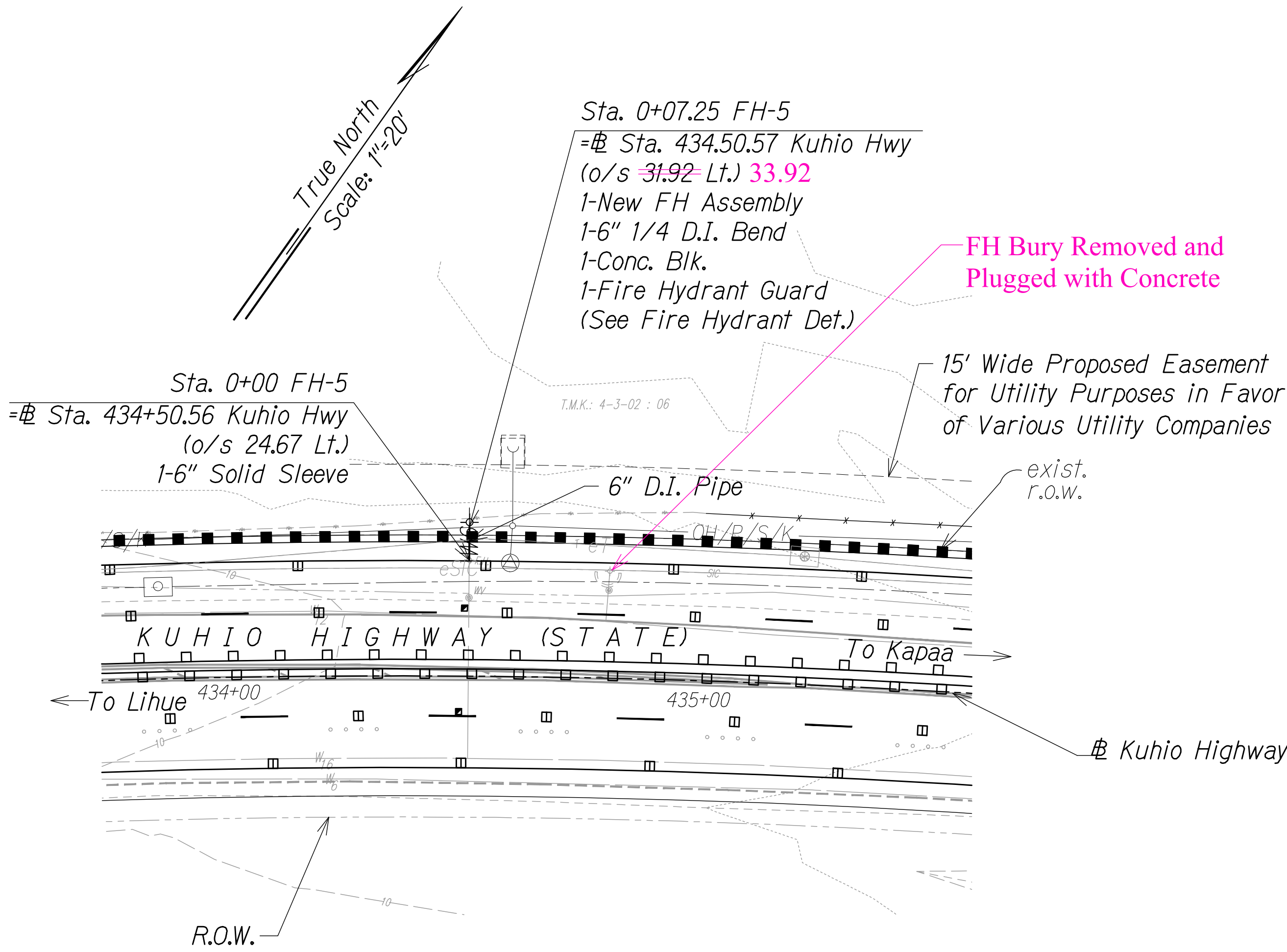
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY PLAN

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. UP7 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUA1	HAW.	NH-056-1(50)	2019	C.O.ADD.62	244



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LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting

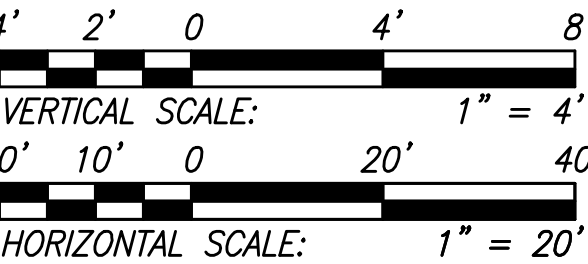
APPROVED

Manager and Chief Engineer
Department of Water,
County of Kauai

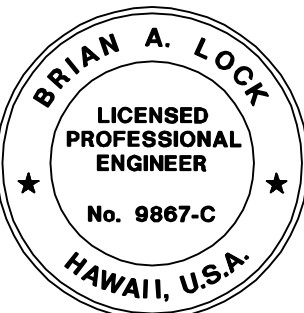
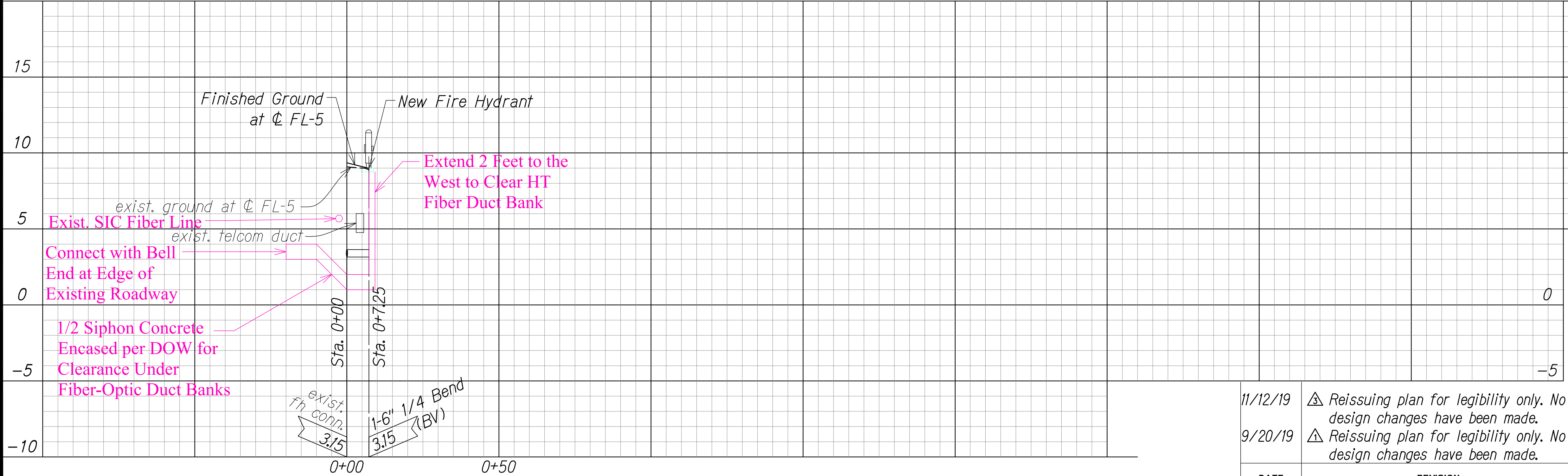
Date

- Notes:
- D.I. pipe and fittings shall be double wrapped with polyethylene.
 - Contractor shall abandon pipe in place. All unused pipe shall be removed and disposed and trench shall be backfilled and restored.
 - Contractor shall maintain water service at all times except for scheduled shutdowns for connections.
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 - The Fire Department shall be notified whenever a fire hydrant is placed out of and returned to service.
 - Install "Megalug" retainer glands at all MJ end fittings.
 - The Right-of-Way and all relevant property corners at the service lateral and fire hydrant locations shall be surveyed and marked by a licensed surveyor prior to construction. Incidental to Section 624.

GRAPHIC SCALES:



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TRACED BY	
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NOTE BOOK	
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WILSON OKAMOTO CORPORATION
APRIL 30, 2020
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY PLAN

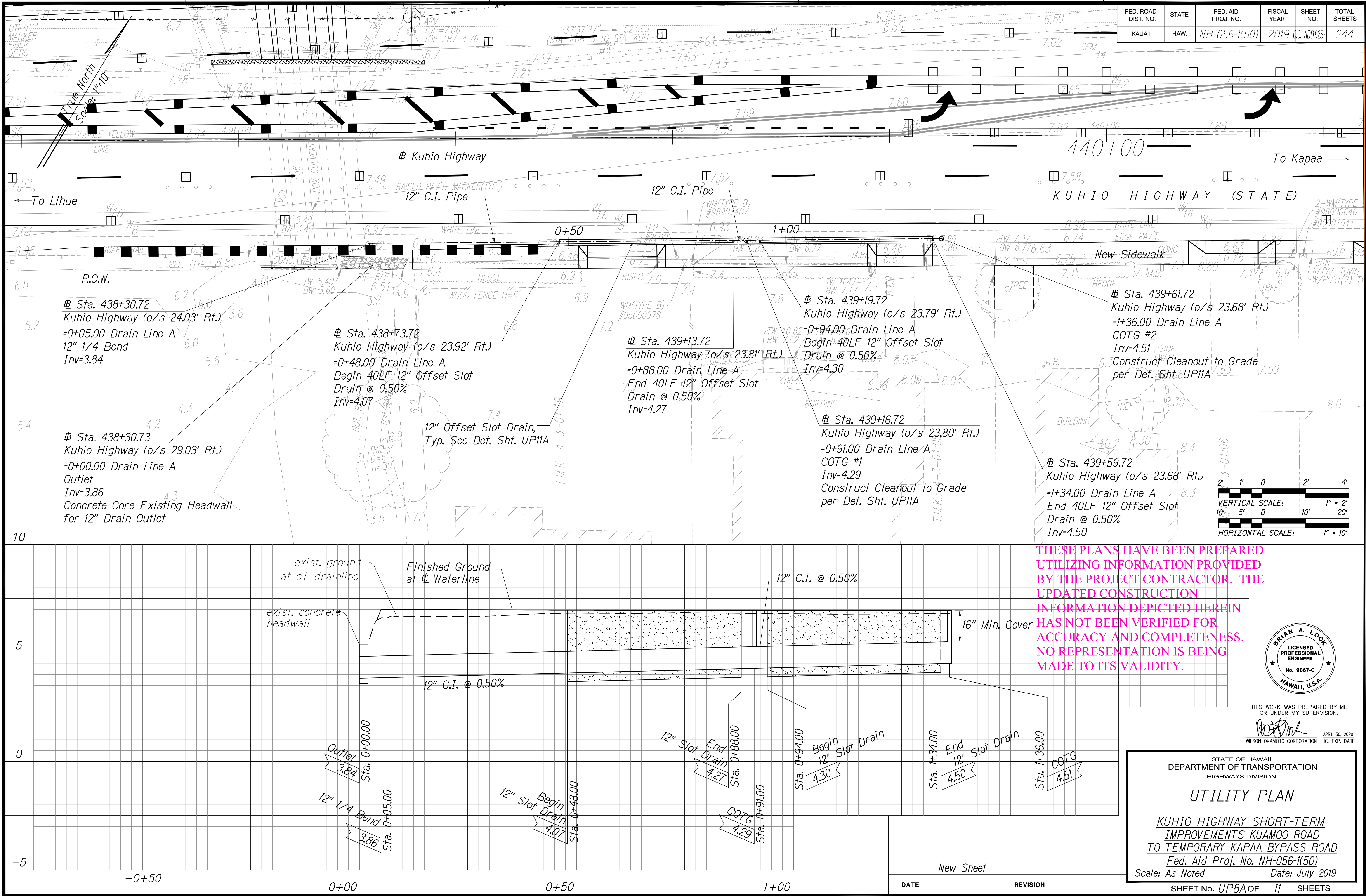
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. UP8 OF 11 SHEETS

DATE	REVISION
11/12/19	△ Reissuing plan for legibility only. No design changes have been made.
9/20/19	△ Reissuing plan for legibility only. No design changes have been made.

"AS-BUILT"

C.O.ADD.62



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUA1	HAW.	NH-056-1(50)	2019	C.O. ADD.62S-1	244

SURVEY PLOTTED BY	DATE
DRAWN BY	
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CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



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WILSON OKAMOTO CORPORATION
APRIL 30, 2020
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

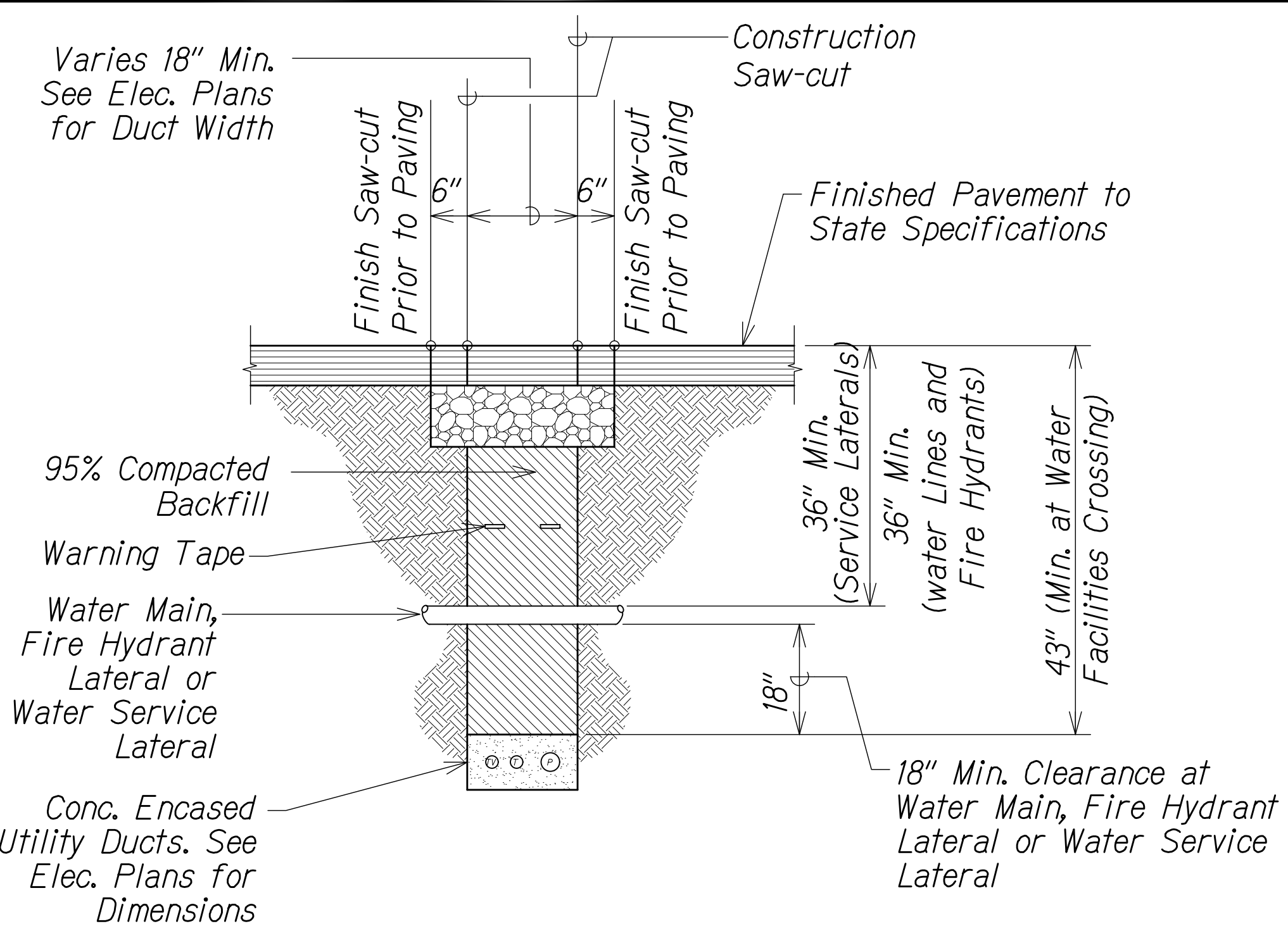
UTILITY PLAN

KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. UP8A OF 11 SHEETS

"AS-BUILT"

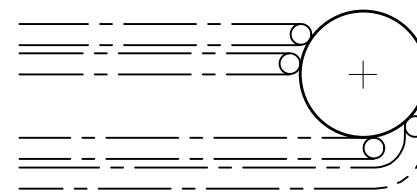
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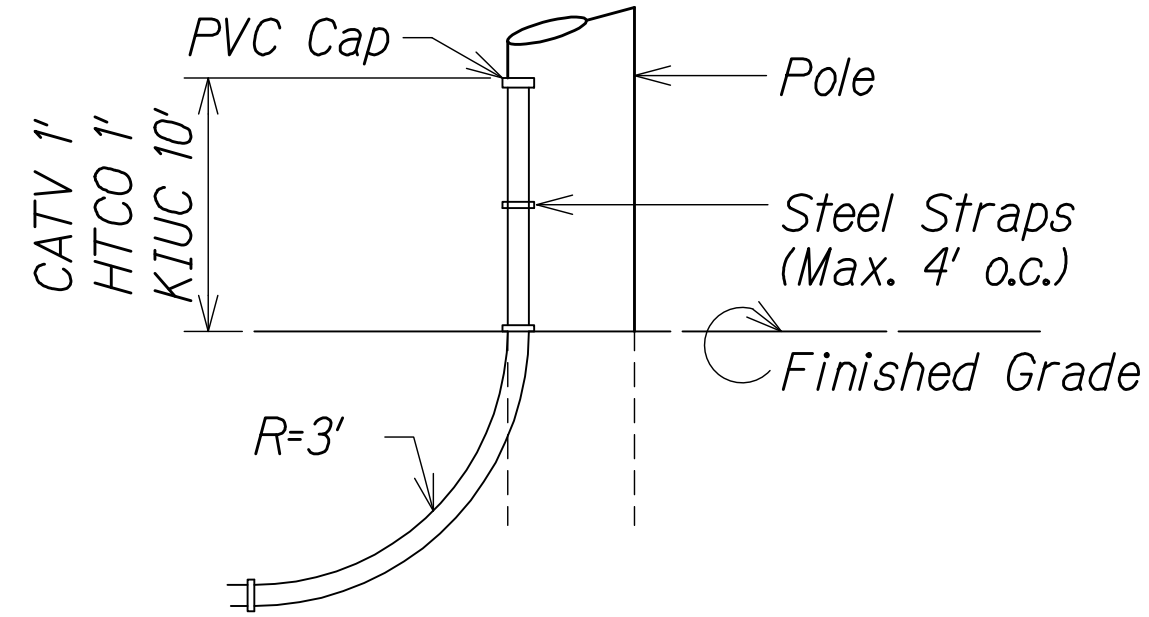
Water Notes:

- 1. The contractor shall verify in the field the location of the existing water facilities prior to trenching. Excavation around existing water facilities shall be done by hand.
- 2. Material used for back filling at the water facilities crossings shall not contain any stones, rocks, or other similar material and shall not contain vegetable matter or debris of any kind. No "Adobe" or similar material shall be used.
- 3. Provide concrete encasement for the conduits at all waterline, service lateral and fire hydrant crossings. The contractor shall notify the Department of Water at least 24-hours prior to scheduling back filling operations at the water facilities crossings.

DETAIL AT WATER FACILITIES CROSSINGS
Not to Scale

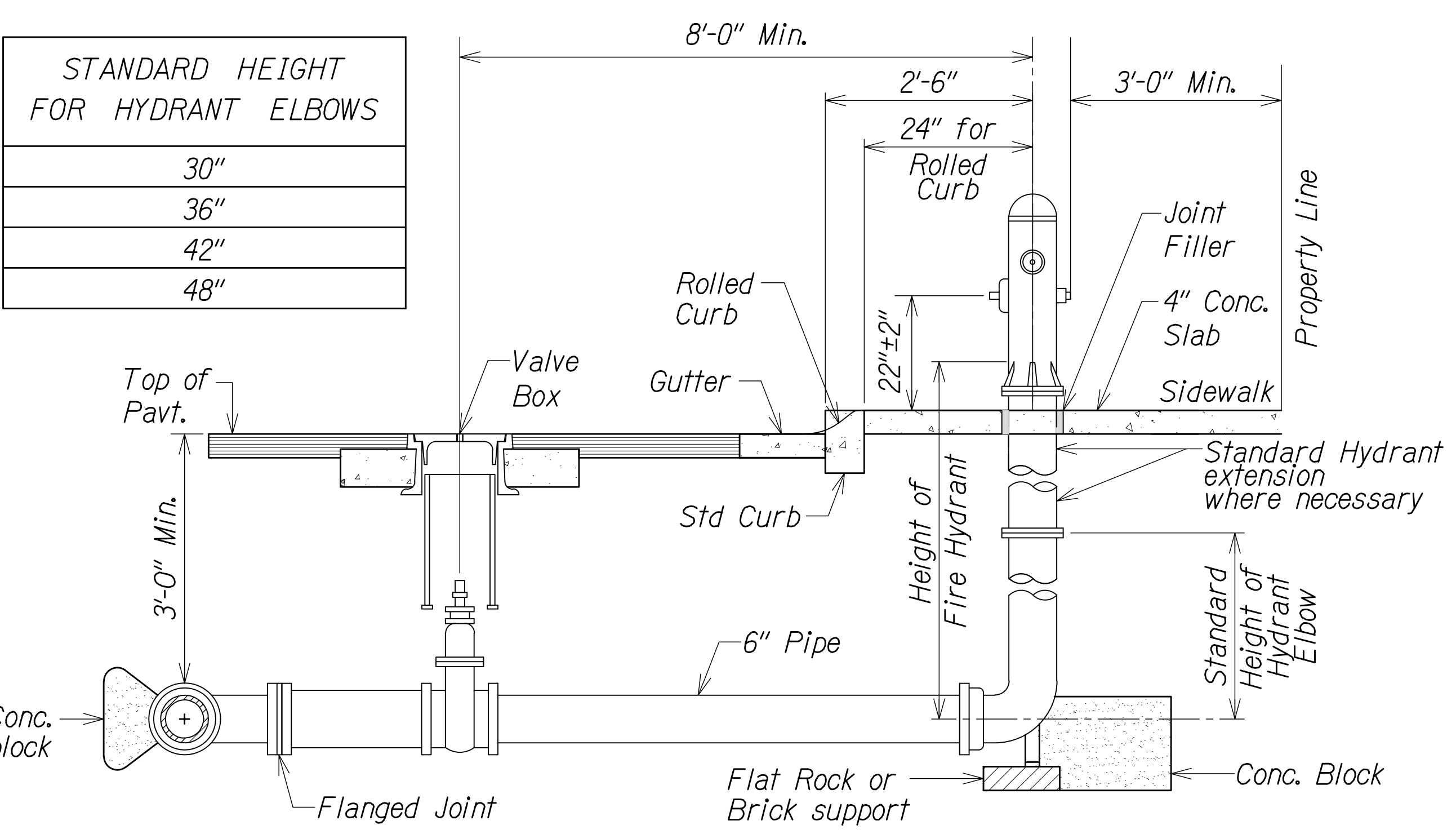


PLAN



ELEVATION

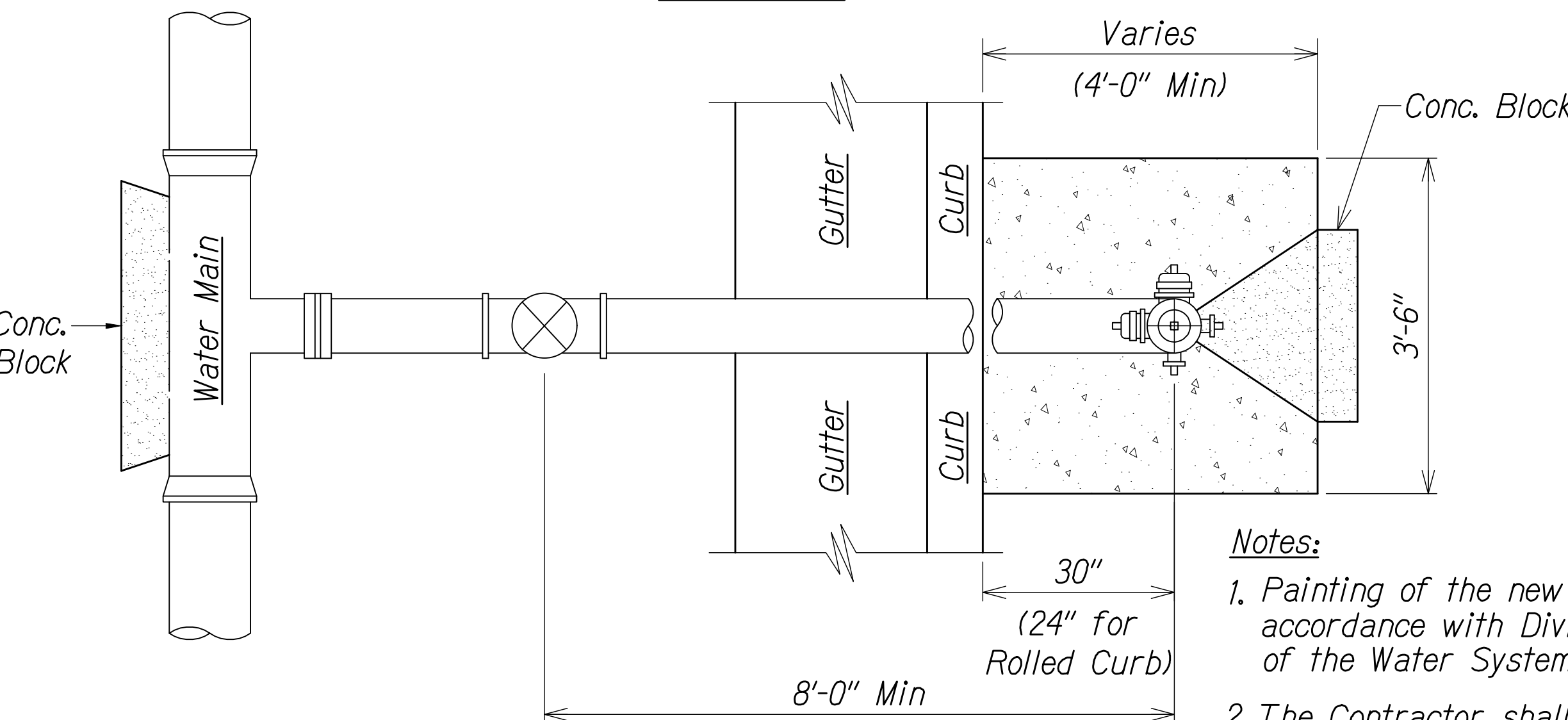
POLE RISER DETAIL
Not to Scale



If multiple hydrant extensions are used, a minimum of the top 3 flange joints shall use break-off bolts.

Standard Hydrant extensions are available in the following lengths: 6 to 30 inches long in increments of 6 inches

SECTION



PLAN

(STRAIGHT RUN)

FIRE HYDRANT CONNECTION DETAIL
Not to Scale

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APPROVED

Manager and Chief Engineer
Department of Water,
County of Kauai

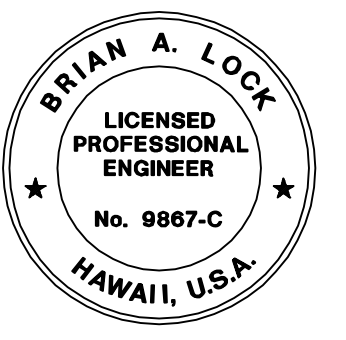
Date

Notes:

- 1. Painting of the new fire hydrants shall be in accordance with Division 200, Section 206.01 of the Water System Standards.
- 2. The Contractor shall etch onto the 4 inch thick concrete slab for the hydrant curb guard (or onto the 4 inch thick concrete slab between the curb and gutter and sidewalk) the measured distance from the fire hydrant to the 6 inch hydrant gate valve. The etched numbers shall be 2-inches tall.

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9/20/19	Reissuing plan for legibility only. No design changes have been made.

DATE REVISION



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WILSON OKAMOTO CORPORATION
APRIL 30, 2020
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

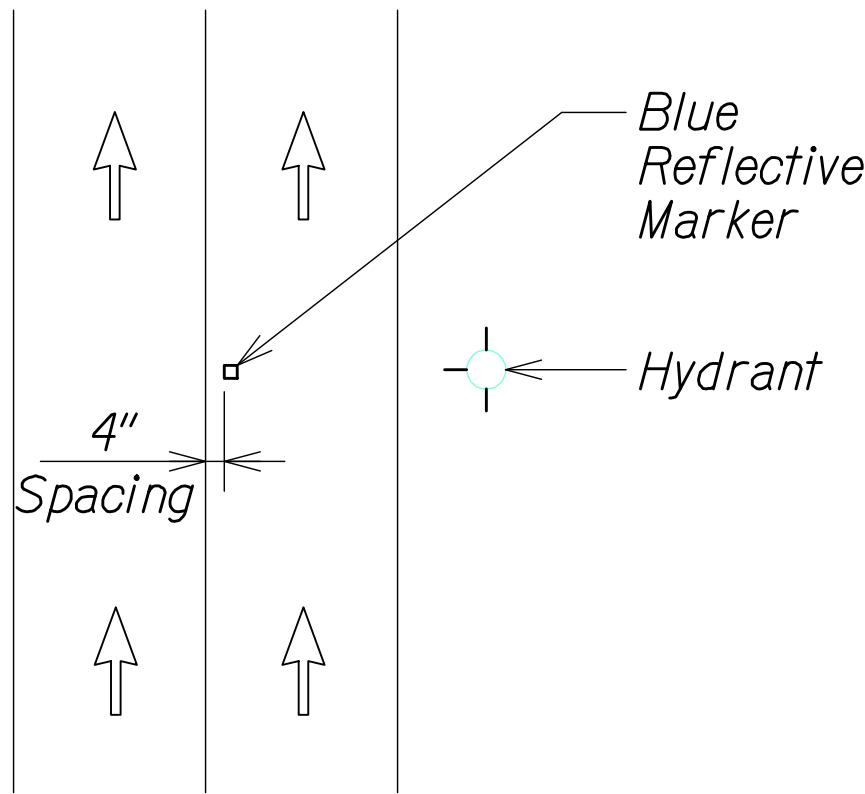
FIRE HYDRANT DETAILS

KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

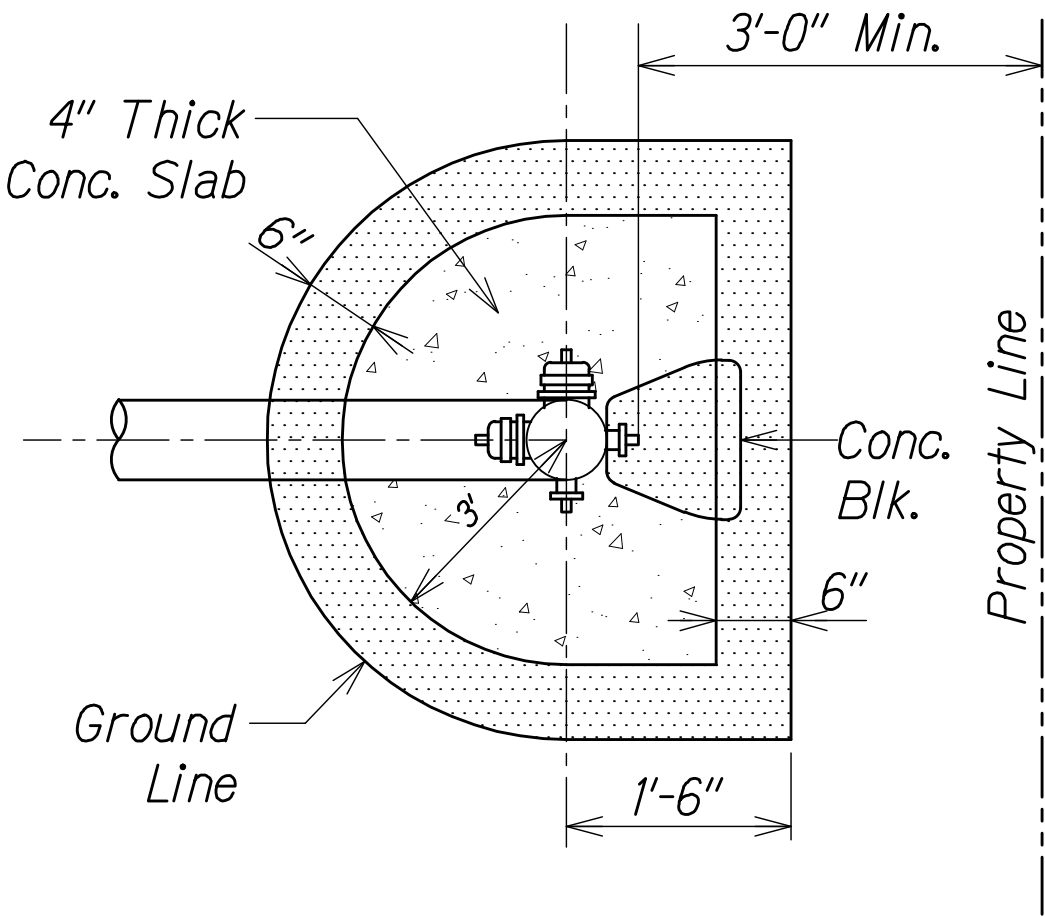
SHEET No. UP9 OF 11 SHEETS

"AS-BUILT"

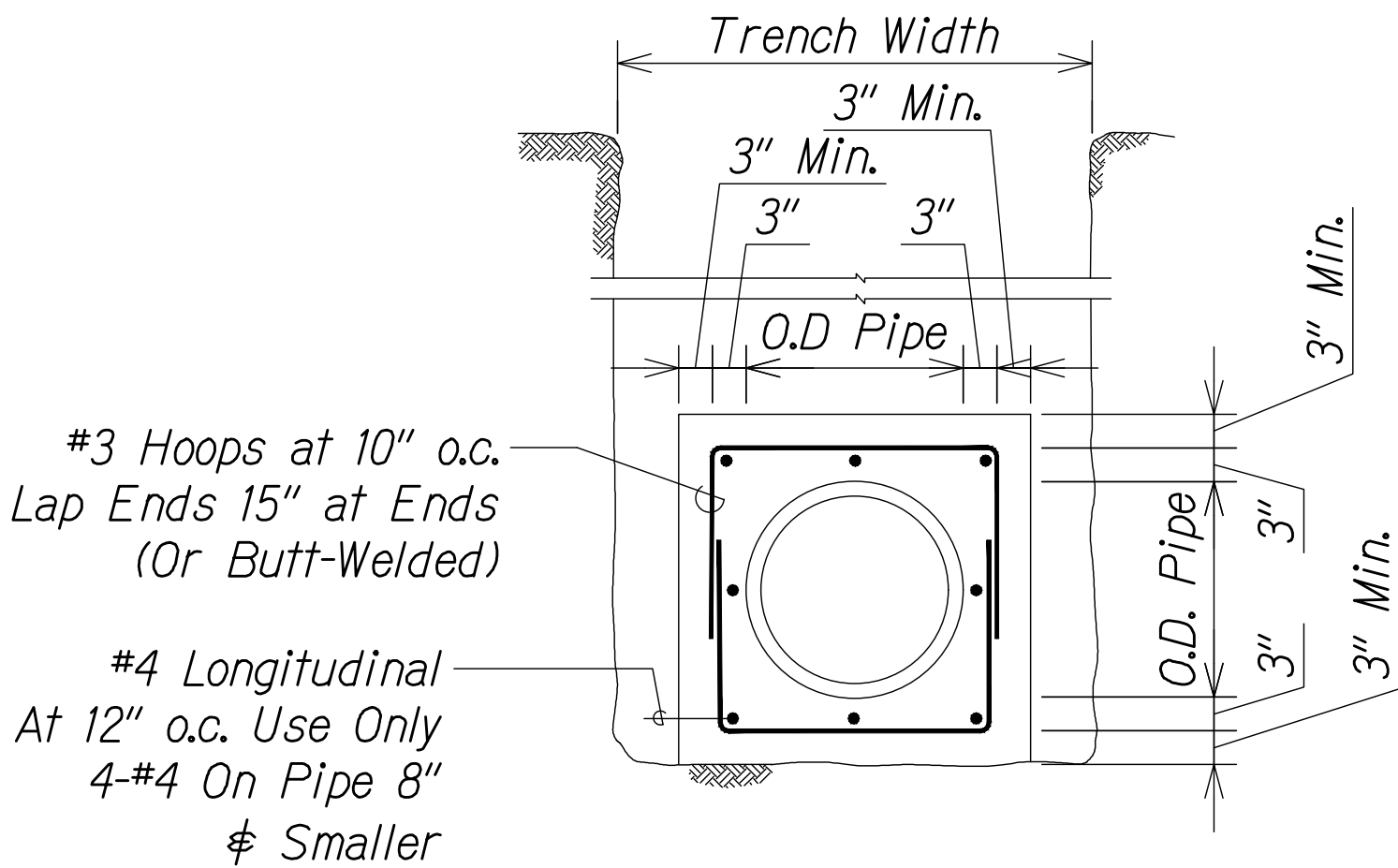
C.O.ADD.63



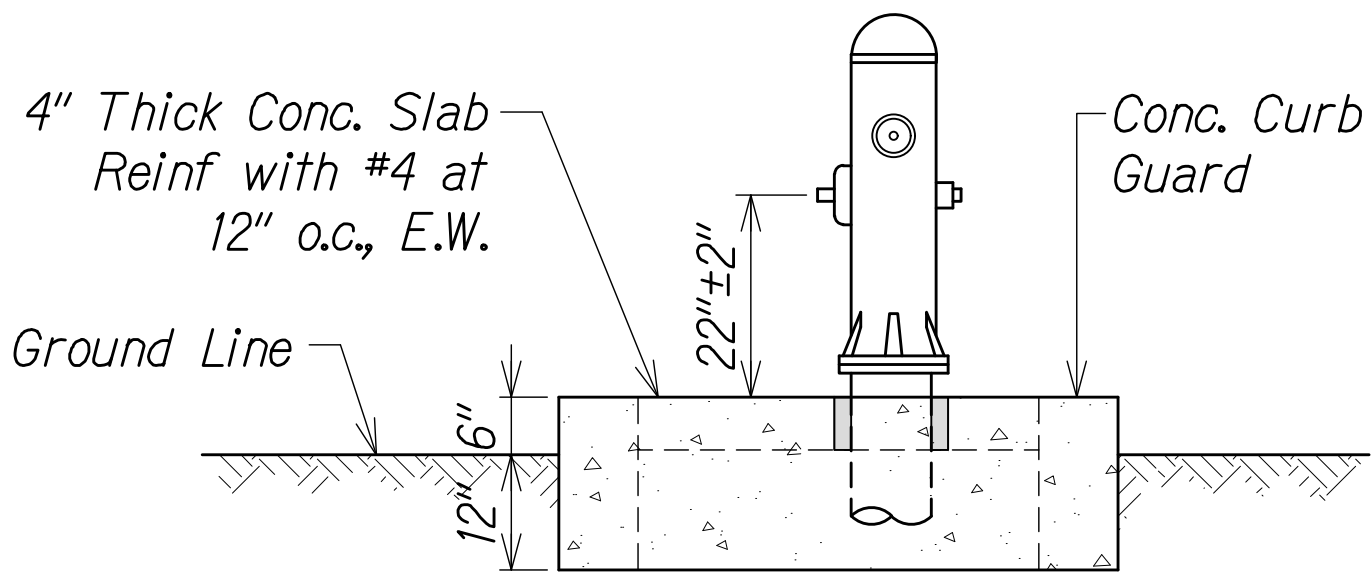
HYDRANT MARKER LOCATION
Not to Scale



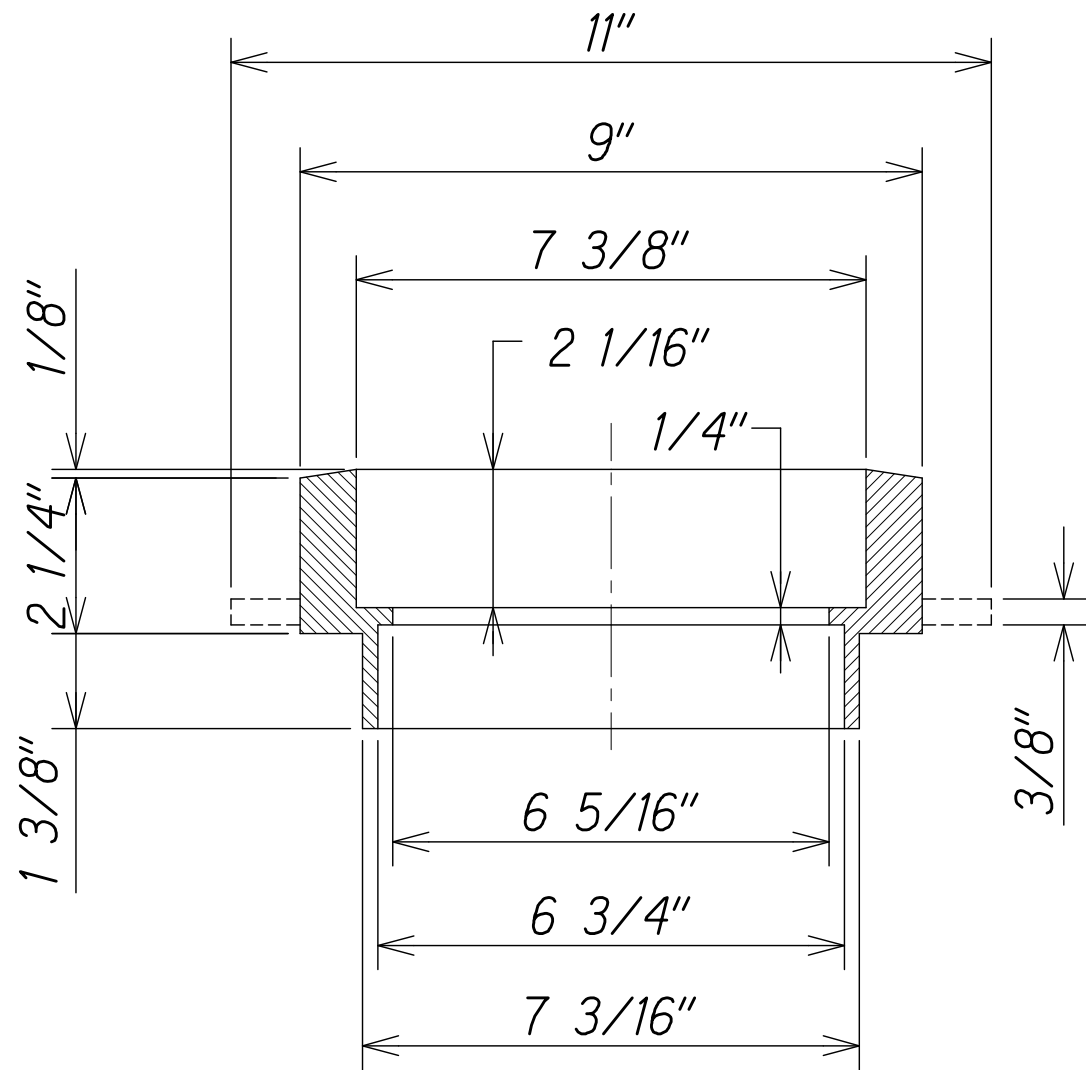
- Notes:
- Concrete shall be DWS 2500.
 - Slope slab 1/4" per foot away from hydrant.



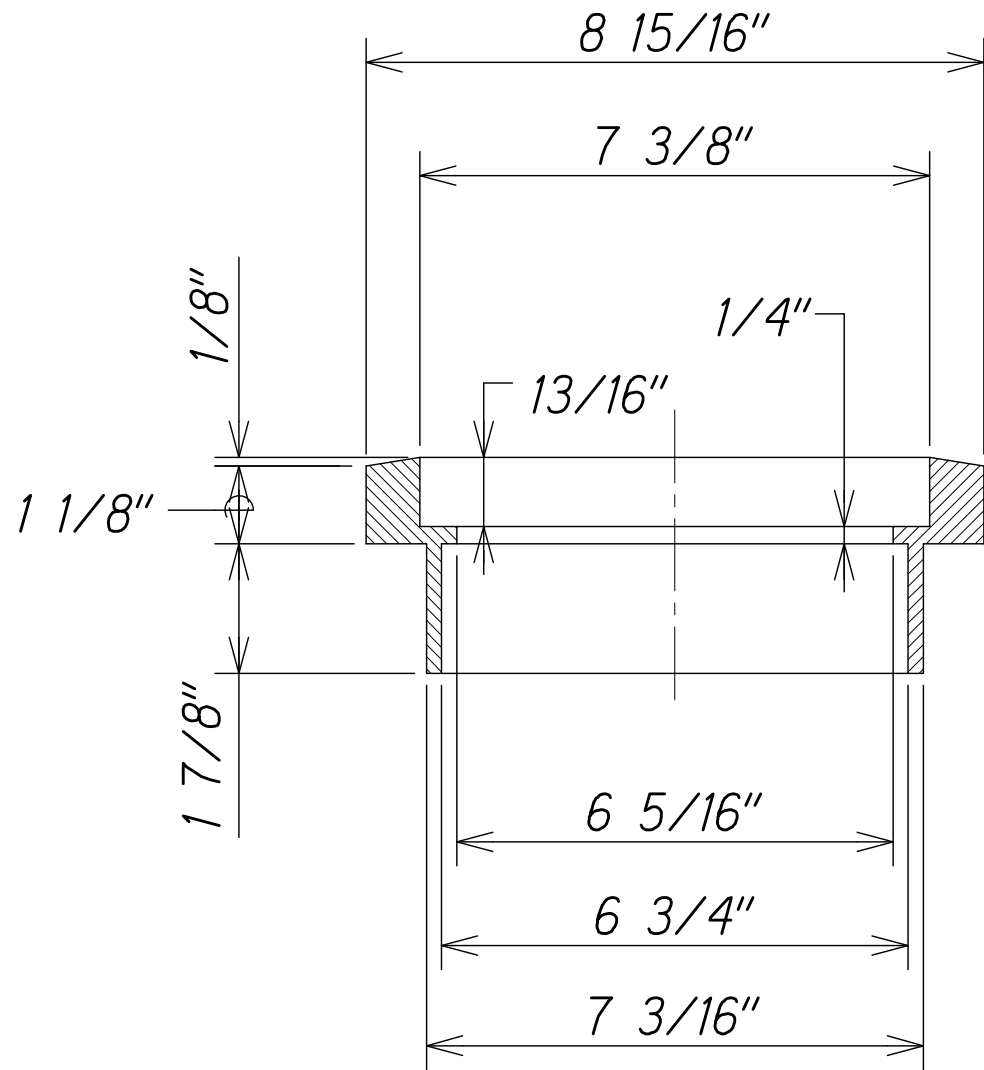
CONCRETE JACKET DETAIL
Not to Scale



HYDRANT CURB GUARD
(NON-SIDEWALK AREA)
Not to Scale



5 1/4" x 2 1/4" RISER
USES STANDARD 5 1/4" DROP LID
Not to Scale



5 1/4" x 1 1/8" RISER
REQUIRES 1 1/8" RISER LID
Not to Scale

TYLER/UNION RISERS

Item/Description	UPCode	Height Increase	Weight
5 1/4 x 1 1/8 Slip-In*	145554	1 1/8"	8
5 1/4 x 2 1/4 Slip-In	145547	2 1/4"	14
*Use with 1 1/8" Lid Only			

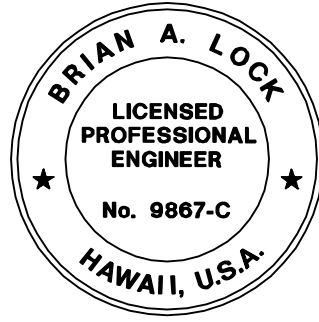
- Notes:
- Tack weld cast iron riser to existing cast iron valve box.
 - Valve boxes shall be adjusted to match finish grade by physically raising or lowering the existing valve box frame and cover and reconstructing the concrete settlement slab and valve box riser (if necessary). For road resurfacing projects, the top of three piece valve boxes with 5 1/4" shafts may be adjusted to match the new finish grade by installing fixed cast iron risers tack welded to the existing cast iron valve box.

FIXED CAST IRON RISER FOR
ALL 5-1/4" SHAFT VALVE BOX
Not to Scale

THESE PLANS HAVE BEEN PREPARED
UTILIZING INFORMATION PROVIDED
BY THE PROJECT CONTRACTOR. THE
UPDATED CONSTRUCTION
INFORMATION DEPICTED HEREIN
HAS NOT BEEN VERIFIED FOR
ACCURACY AND COMPLETENESS.
NO REPRESENTATION IS BEING
MADE TO ITS VALIDITY.

- 11/12/19 Reissuing plan for legibility only. No design changes have been made.
- 9/20/19 Reissuing plan for legibility only. No design changes have been made.

DATE	REVISION
------	----------



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**FIRE HYDRANT &
WASTEWATER DETAILS**
**KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD**
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019
SHEET No. UP10 OF 11 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

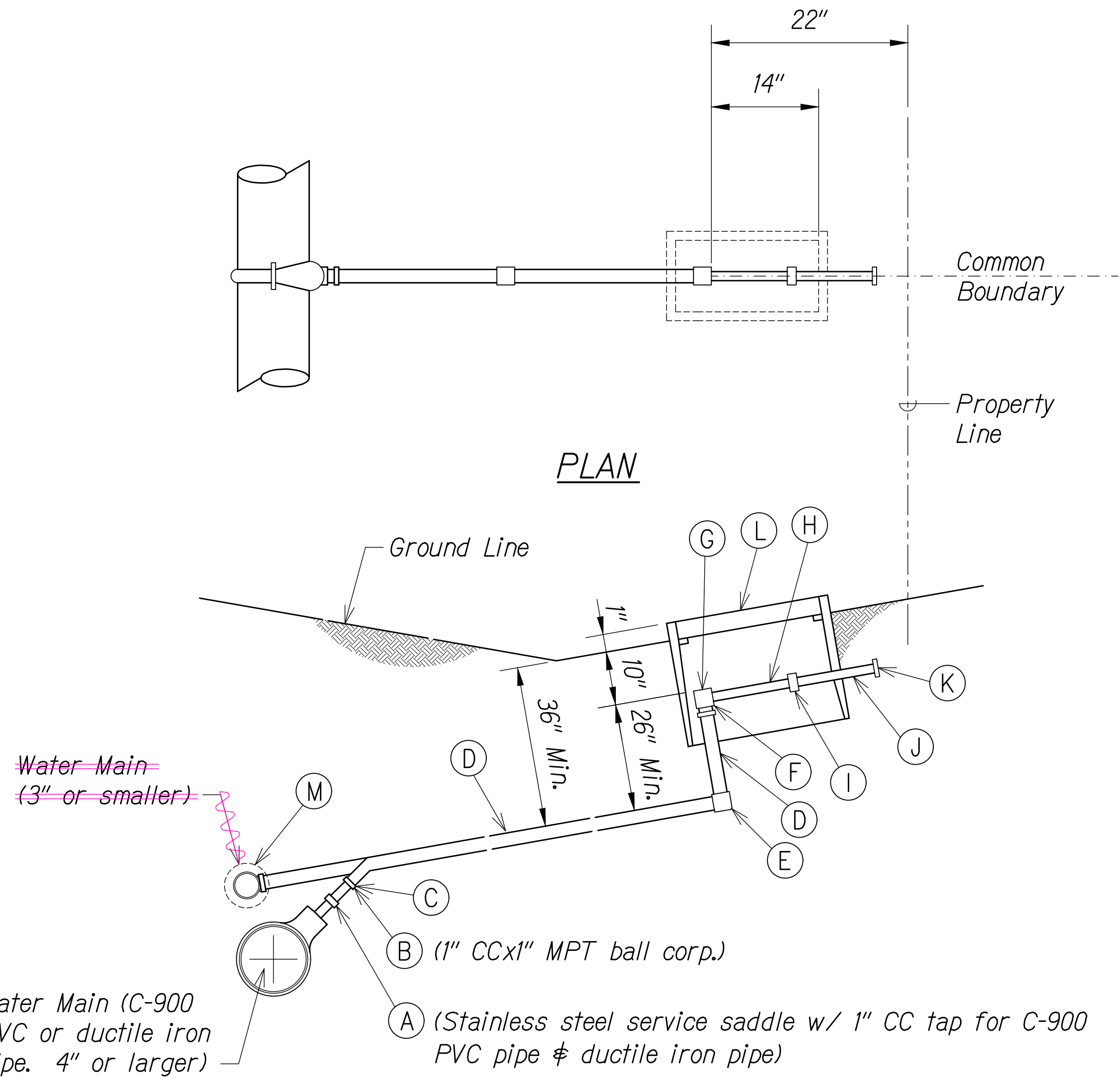
APPROVED

Manager and Chief Engineer
Department of Water,
County of Kauai

Chief, Division of Wastewater Management

"AS-BUILT"

C.O.ADD.64



Schedule of Fittings		
Item	Description	Single Service
A	Stainless steel service saddle w/ 1" CC tap for C-900 PVC pipe & D.I. pipe	1
B	1" CC x 1" MPT ball corporation	1
C	Pack joint couplings (Ford C14-44 or approved equal)	1
D	1" copper tube, Type "K" soft	1
E	1" 90° copper elbow, S x S	1
F	1" copper male adapter, SXT	1
G	Angle ball valve, 1" female IPT inlet x 3/4" meter coupling nut outlet (Ford BA13-342W or approved equal)	1
H	Meter spacing, supplied by Dept. of Water & installed by contractor	1
I	Ball valve w/ handle, 3/4" meter coupling but inlet x 1" female IPT outlet (Ford B13-342 w/ HT-34 handle or approved equal)	1
J	Linesetter, 1" copper tube, Type "K" soft, 12" long (see Std. Det. L3)	1
K	1" plastic thread protector	1
L	Type "B" concrete meter box w/ cast iron cover	1
M	Tee w/ 1" bushing (when connecting to 3" or smaller pipe)	1

Note:

Install Type "X" conc. meter box w/ cast iron cover in sidewalk or paved areas. Top of meter box to be flushed with finished grade.

General Note:

All laterals in State ROW will need a minimum 36" cover to finish grade.

PROFILE

SINGLE SERVICE DETAIL

Not to Scale

APPROVED

Manager and Chief Engineer
Department of Water,
County of Kauai

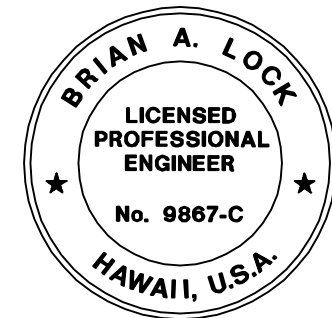
Date

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion
 Double line for as-built deletion
Roadway Text for as-built posting

11/12/19 Reissuing plan for legibility only. No design changes have been made.
9/20/19 Reissuing plan for legibility only. No design changes have been made.

DATE REVISION



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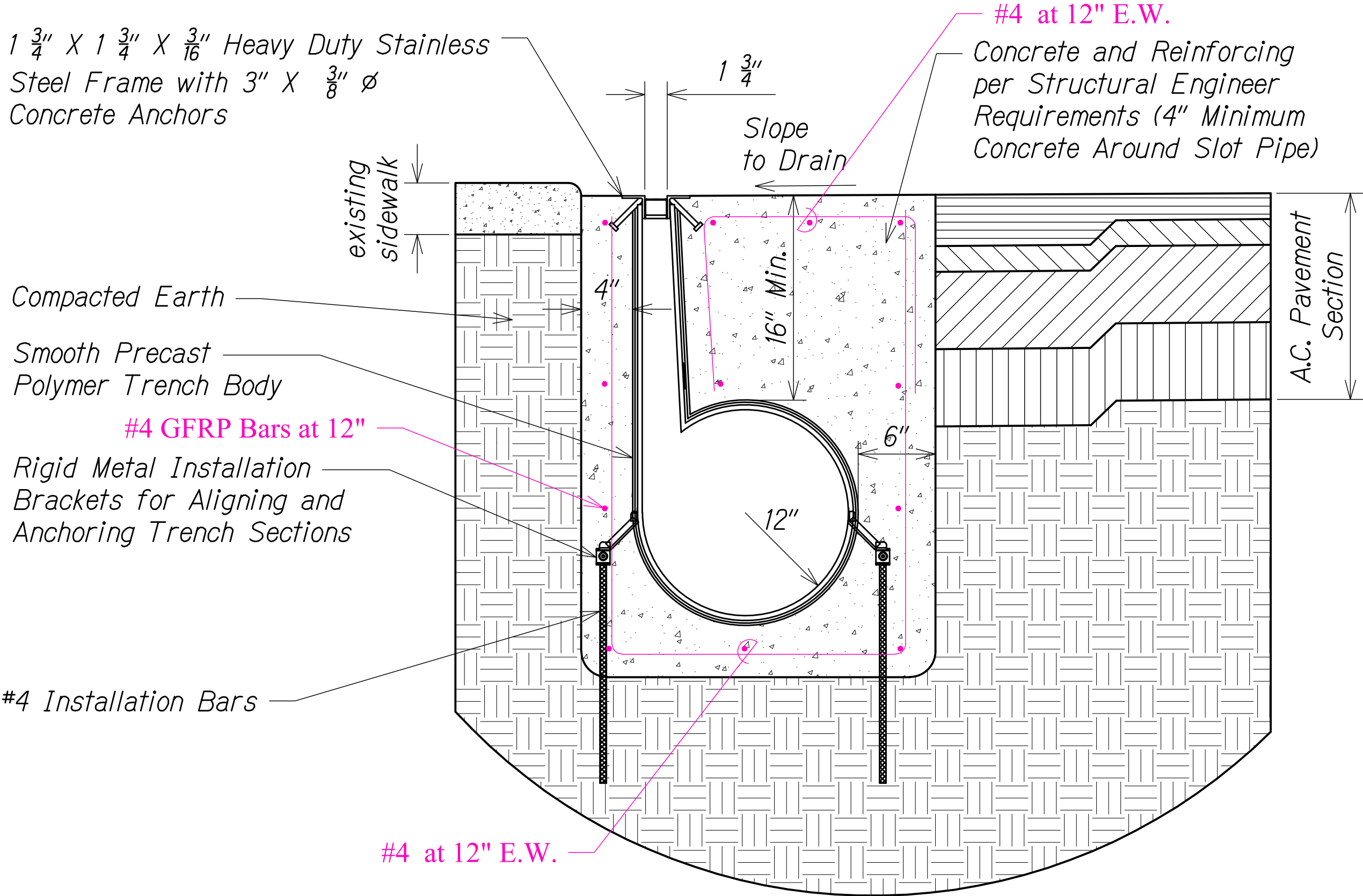
APRIL 30, 2020
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**FIRE HYDRANT &
WASTEWATER DETAILS**
**KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD**
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019
SHEET No. UP11 OF 11 SHEETS

"AS-BUILT"

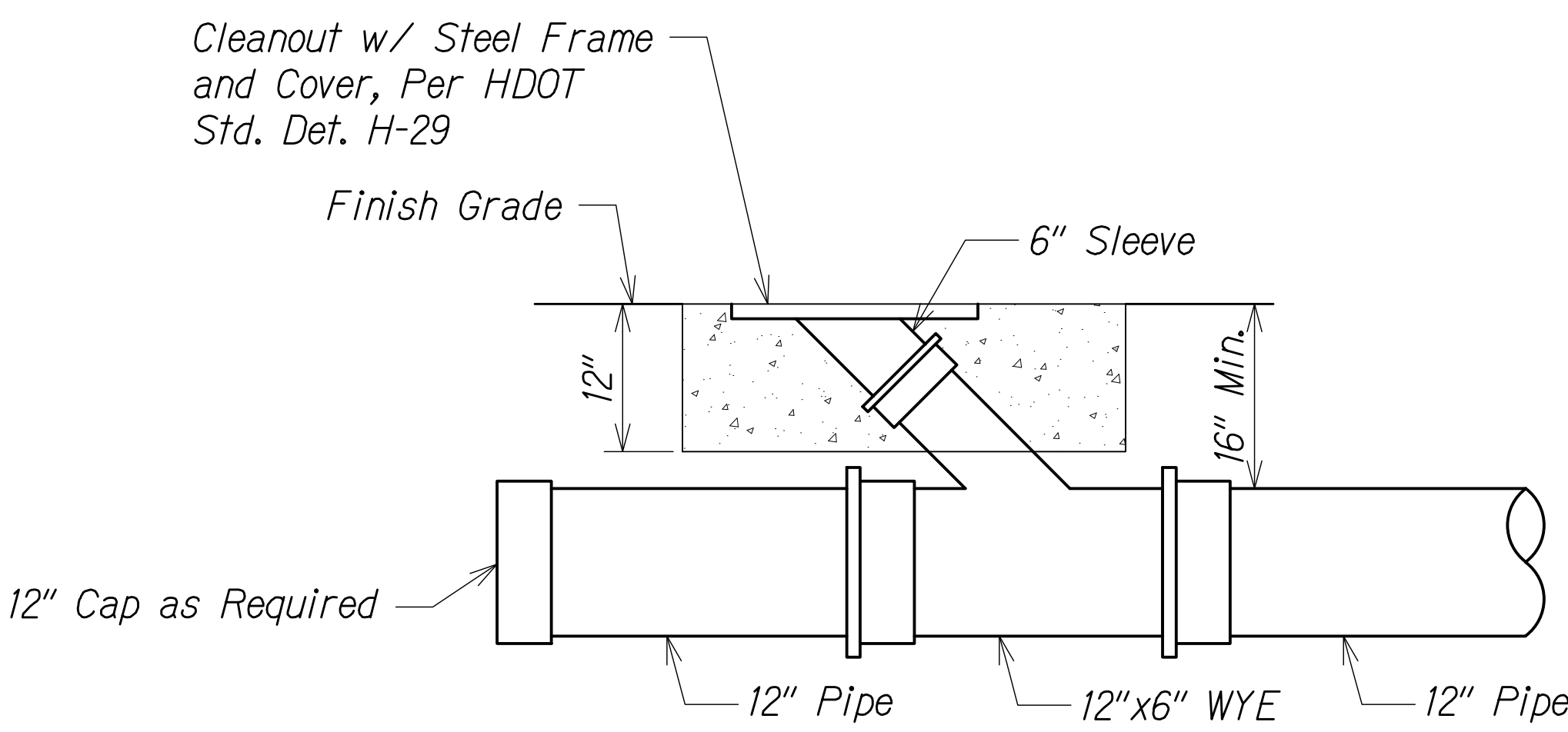
C.O.ADD.65

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	C.O.ADD.65S-1	244



NOTES:
1. Reinforce According to Structural Requirements

12" OFFSET SLOT DRAIN DETAIL
Not to Scale



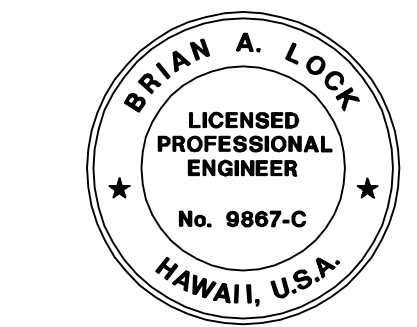
CLEANOUT DETAIL
Not to Scale

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	QUANTITIES BY	
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LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
	New Sheet



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[Signature]
WILSON OKAMOTO CORPORATION LIC. EXP. DATE APRIL 30, 2020

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SLOT DRAIN DETAIL

KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: July 2019

SHEET No. UP11A OF 11 SHEETS

"AS-BUILT"

C.O.ADD.65S-1