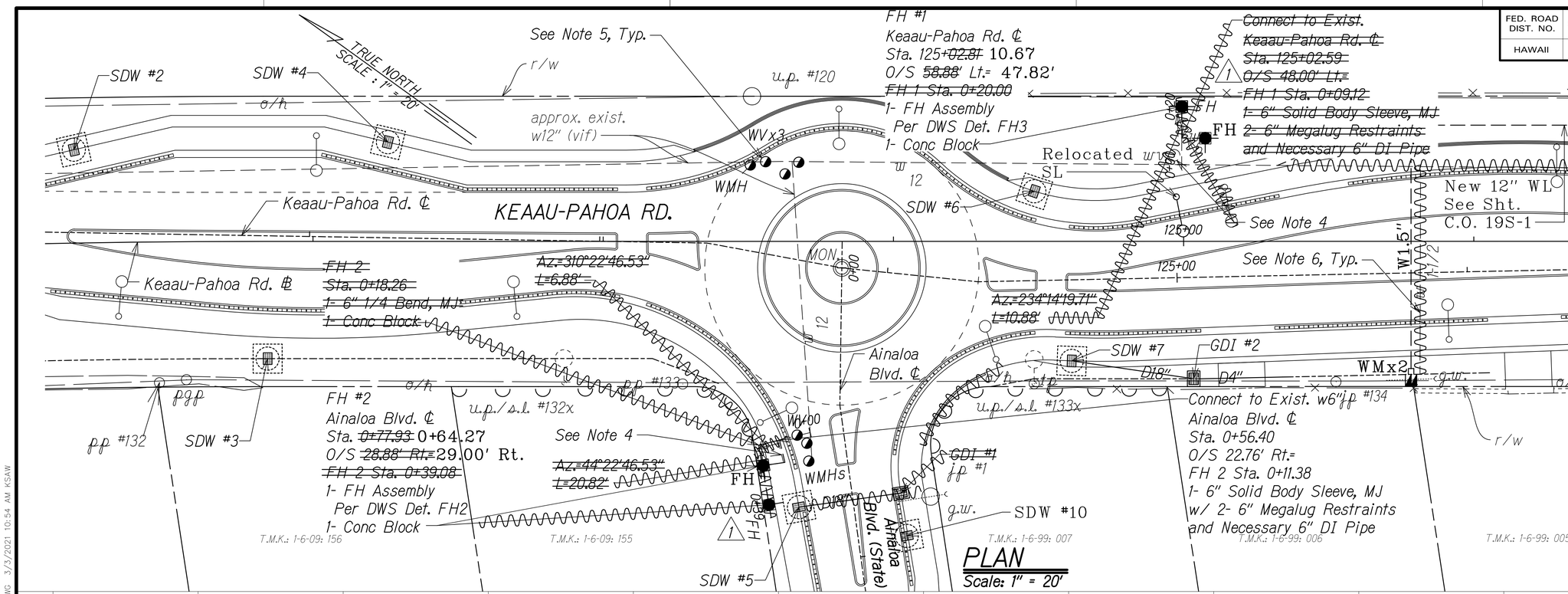
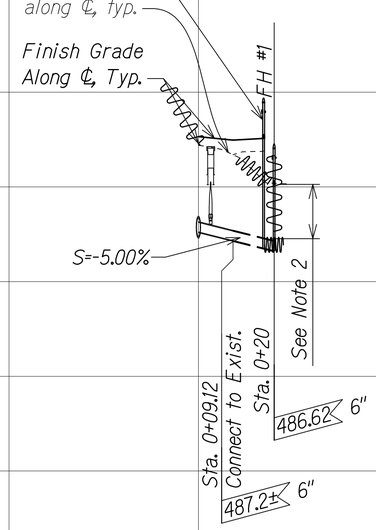
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(27)	2020	ADD.19	50



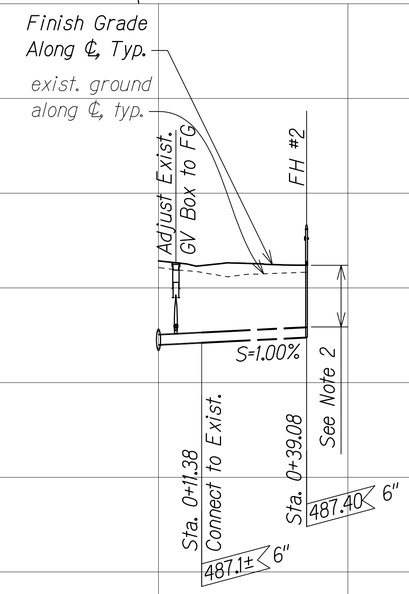
PLAN
Scale: 1" = 20'

NOTES:

1. New pipes shall be Ductile Iron, Class 52.
2. Minimum cover shall be 3 feet.
3. For fire hydrant markers see Sht. ADD.39.
4. Restrain Exist. 6" GV to Tee. Remove Exist. 6" 1/4 Bend and FH Unit including Conc Block from FH Line. Salvage FH for DWS.
5. Adjust all DWS exist. WMHs, WVs and WMs to Finish Grade.
6. Field locate and verify all existing water service laterals.



PROFILE - FIRE HYDRANT 1
Scale: Horiz. 1" = 20'
Vert. 1" = 4'



PROFILE - FIRE HYDRANT 2
Scale: Horiz. 1" = 20'
Vert. 1" = 4'

GRAPHIC SCALES:

20' 10' 0 20' 40'
Scale: 1" = 20'

4' 3' 2' 1' 0 4' 8'
Scale: 1" = 4'

LEGEND FOR AS-BUILT POSTINGS

∿∿∿	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
12/16/19	1 Revised Relocated FH to New FH; Revised Note #3

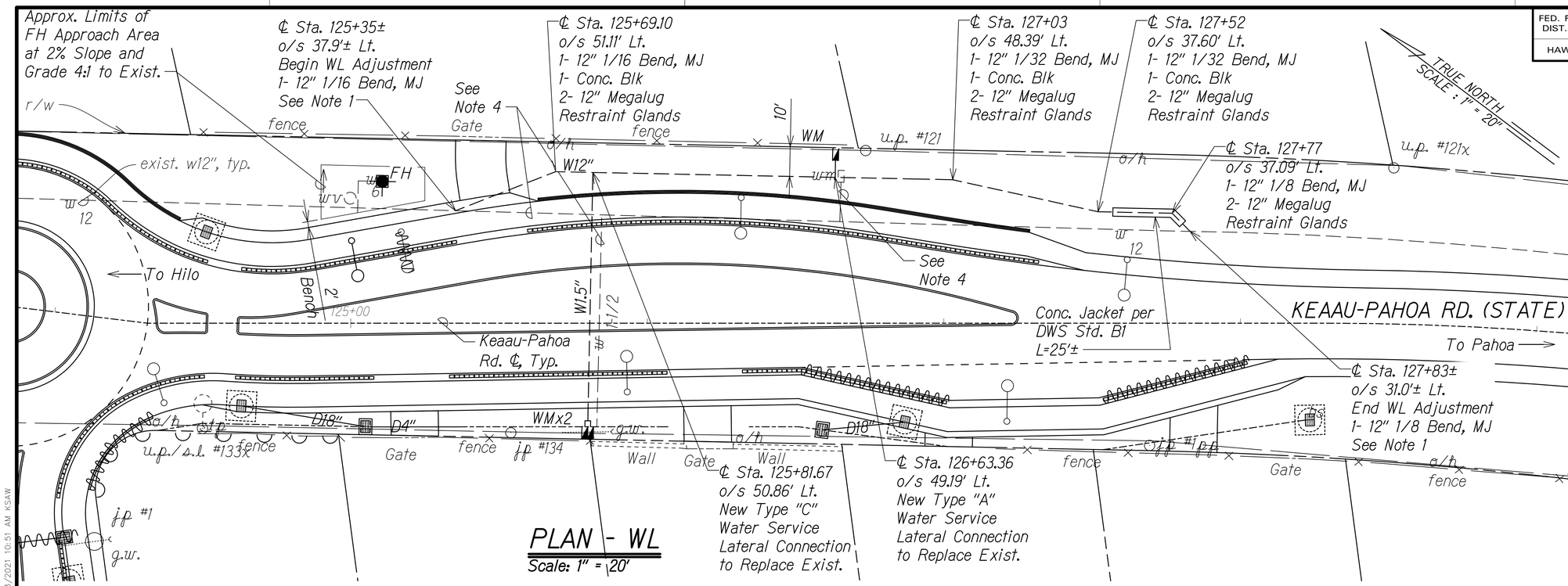
SHEET No. 1 OF 1 SHEETS

"AS-BUILT"

ADD.19

C:_CIVIL 3D PROJECTS\2012-153.000 KEAAU-PAHOA RD IMPR RTE130\ROUNDABOUT DESIGN\ASBUILT DRAWINGS\01 AINALOA\19 FIRELINE PNP.DWG 3/3/2021 10:54 AM KSAW

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0130(27)	2020	C.O. 19S-1	50

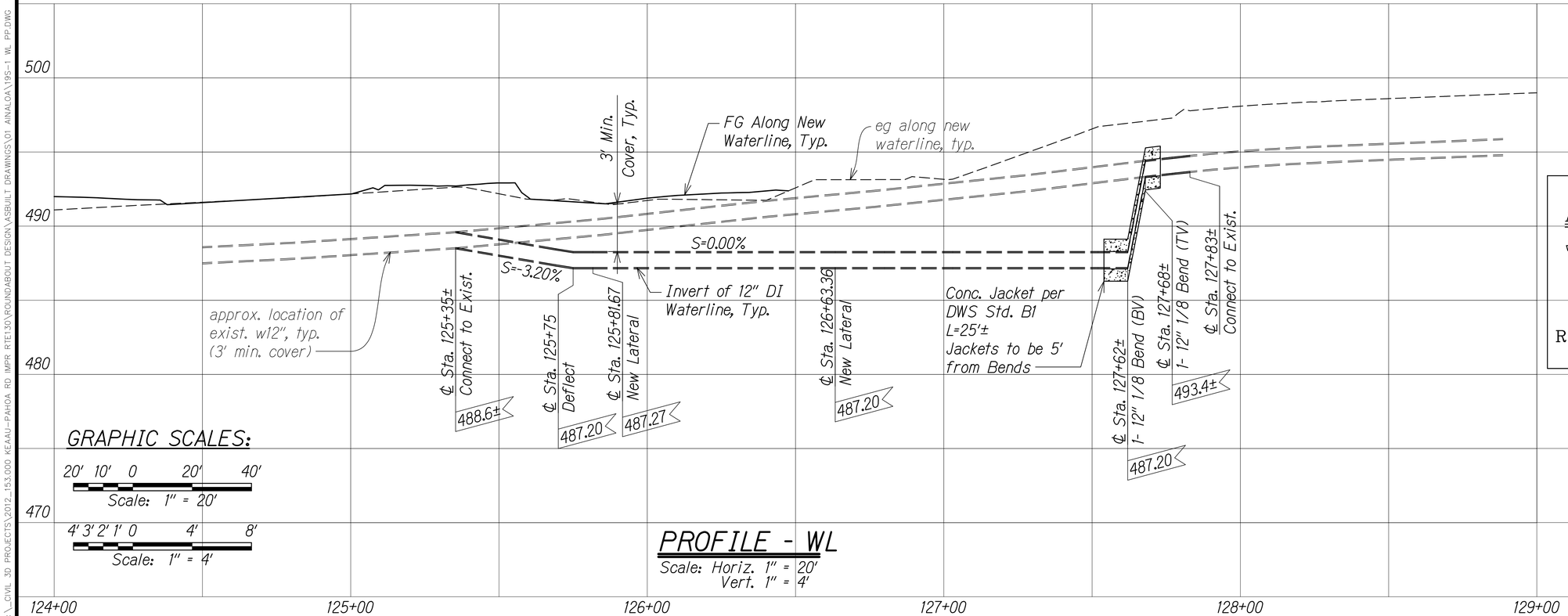


PLAN - WL

Scale: 1" = 20'

NOTES:

1. At connection to exist., Install: Bend w/ Megalug Restraint Glands 1- 12" Solid Body Sleeves w/ Megalug Restraint Glands Necessary 12" DI Pipe Nipples 1- Conc. Blk
2. For new service lateral connection, see DWS Std. Det. L7, L8, L9 and L10.
3. All stations are based from Keaau-Pahoa Rd. ℄.
4. Contractor shall remove exist. waterline section to be replaced by the new waterline.



PROFILE - WL

Scale: Horiz. 1" = 20'
Vert. 1" = 4'

GRAPHIC SCALES:

20' 10' 0 20' 40'
Scale: 1" = 20'

4' 3' 2' 1' 0 4' 8'
Scale: 1" = 4'

LEGEND FOR AS-BUILT POSTINGS

∧∧∧∧∧	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

ROBYN R. MCKINNEY
LICENSED PROFESSIONAL ENGINEER
NO. 13480-C
HAWAII, USA.

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

Robyn McKinney 04/30/22
SIGNATURE EXPIRATION DATE OF THE LICENSE

SHEET No. 1A OF 1 SHEETS

"AS-BUILT"

C.O. 19S-1

C:_CIVIL 3D PROJECTS\2012_153.000 KEAAU-PAHOA RD IMPR RTE130\ROUNDABOUT DESIGN\ASBUILT DRAWINGS\01 AINALOA\19S-1 WL PP.DWG 3/3/2021 10:51 AM KSAW