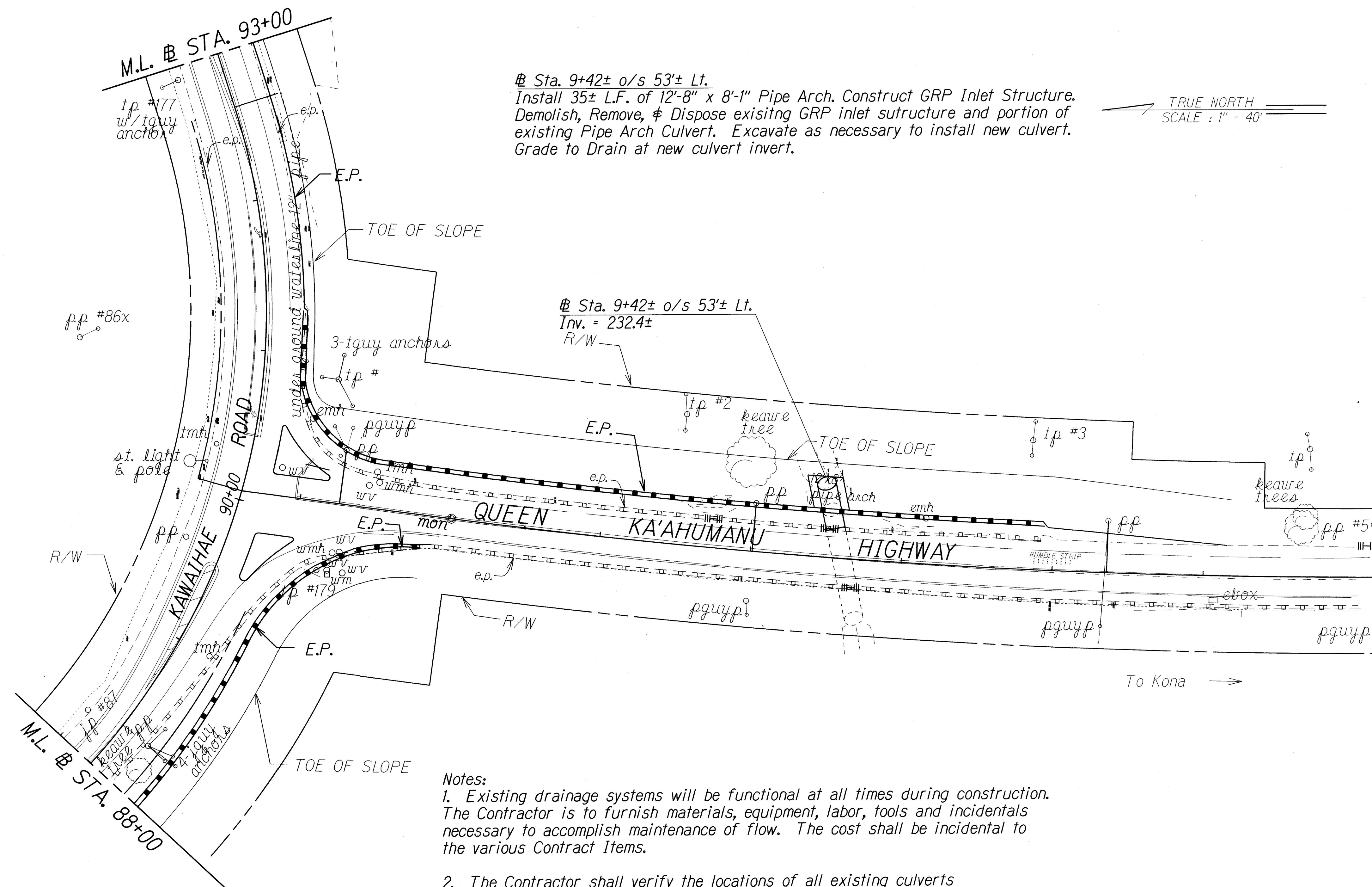


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-019-1(41)	2018	ADD.19	43



Sta. 9+42± o/s 53± Lt.
Install 35± L.F. of 12'-8" x 8'-1" Pipe Arch. Construct GRP Inlet Structure.
Demolish, Remove, & Dispose existing GRP inlet sustructure and portion of
existing Pipe Arch Culvert. Excavate as necessary to install new culvert.
Grade to Drain at new culvert invert.

TRUE NORTH
SCALE: 1" = 40'

Notes:

- Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to the various Contract Items.
- The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.
- Concrete shall be Class A unless otherwise noted.
- The Contractor shall verify size, type, and material of existing culvert prior to ordering.
- Refer to Special Provisions, Section 606, Guardrails for further instructions on omitting guardrail posts vicinity of 12'-8" x 8'-1" Pipe Arch Culvert.
- Install 6" bed course material under new 12'-8" x 8'-1" Pipe Arch Culvert.

<div>1</div>	12/1/17	Replaced original Sheet No. 19. Note 5 & 6 added.
DATE		REVISION
<div>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</div> <div><u>DRAINAGE PLAN</u></div> <div><u>QUEEN KA'AHUMANU HIGHWAY</u> <u>INTERSECTION IMPROVEMENTS at KAWAIHAE ROAD</u> <u>Federal Aid Project No. HSIP-019-1(41)</u></div> <div>Scale: 1" = 40' Date: Feb 2009</div>		
SHEET No. <i>HI</i> OF 2 SHEETS		

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
DATE	