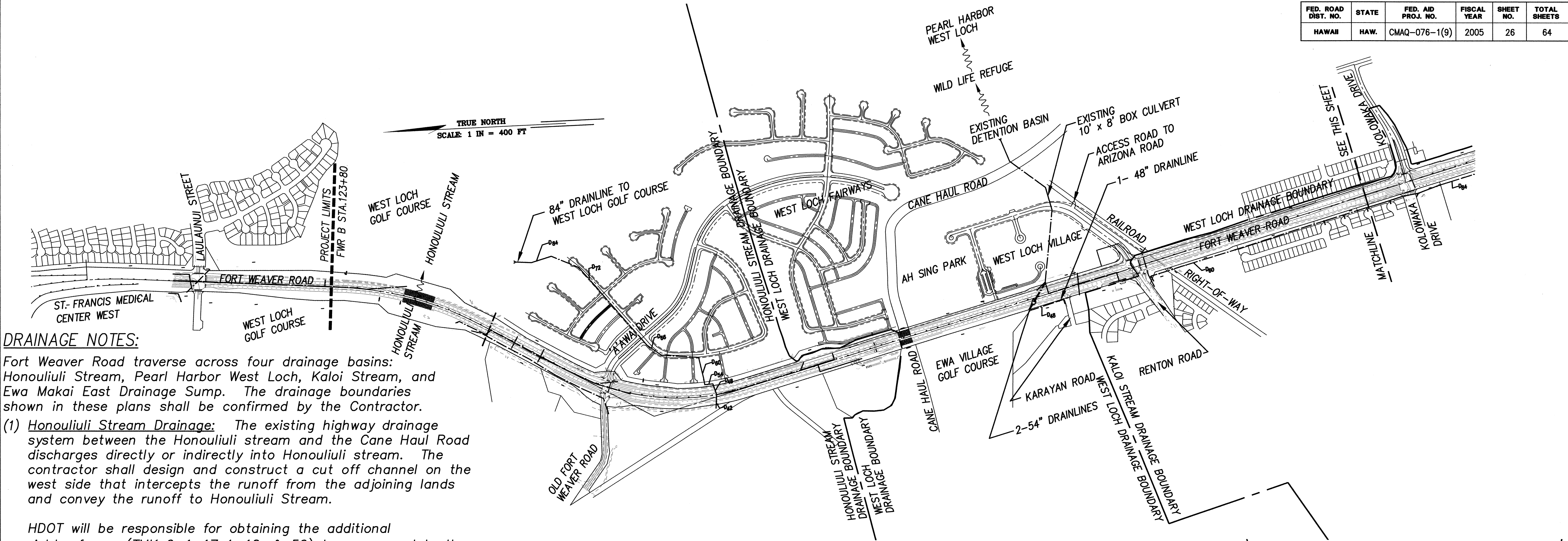


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2005	26	64



DRAINAGE NOTES:

Fort Weaver Road traverse across four drainage basins: Honouliuli Stream, Pearl Harbor West Loch, Kaloi Stream, and Ewa Makai East Drainage Sump. The drainage boundaries shown in these plans shall be confirmed by the Contractor.

(1) Honouliuli Stream Drainage: The existing highway drainage system between the Honouliuli stream and the Cane Haul Road discharges directly or indirectly into Honouliuli stream. The contractor shall design and construct a cut off channel on the west side that intercepts the runoff from the adjoining lands and convey the runoff to Honouliuli Stream.

HDOT will be responsible for obtaining the additional right-of-way (TMK 9-1-17:4, 10, & 59) to accommodate the cut off channel.

The bridge hydraulic should be evaluated in ensure there are no negative impact(s) to adding the runoff from the new channel and or pipe system. The areas east of the highway that sheet flows into the adjoining areas outside the ROW can be maintained as long as the hydraulics of the downstream system works out.

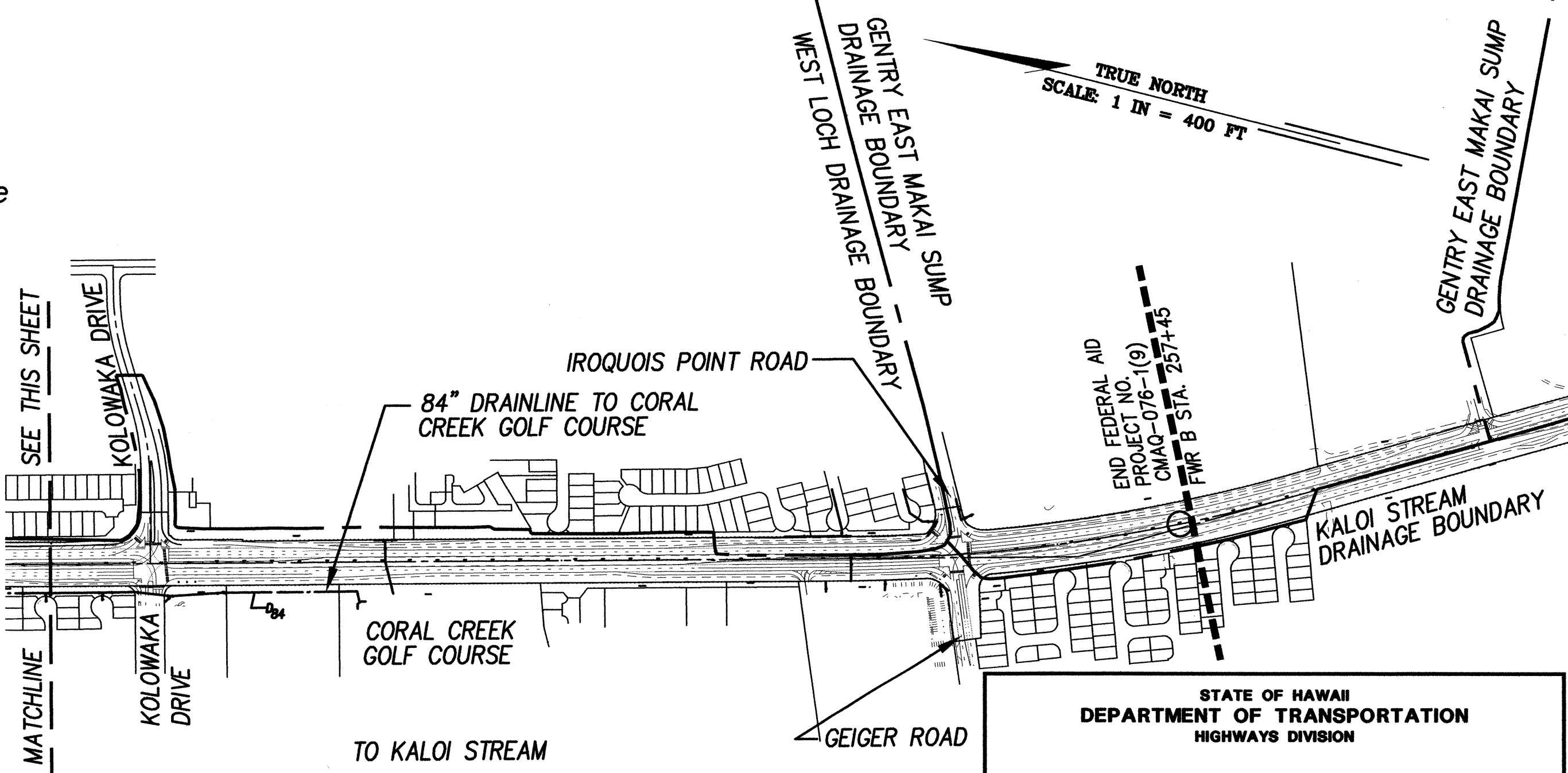
The highway system above Sta 158+50 may continue to drain into the West Loch Subdivision system; however, the Contractor shall ensure that the downstream hydraulic meet the requirements of the City and County of Honolulu and shall prepare the necessary documentation for flowage rights through the subdivision.

(2) Pearl Harbor West Loch Drainage: The existing highway drainage system between the Cane Haul Road and Renton Road discharge into the existing retention basin east of Ah Sing Park and ultimately discharge into Pearl Harbor West Loch. The new highway drainage system should continue to discharge into the retention basin. If connecting to the two existing 54-inch culverts are not possible due to hydraulic constraints downstream, the contractor should consider routing the new drains along Arizona road to the basin or via the cane haul road, if approved by the City and County of Honolulu. The Contractor shall obtain the necessary construction easement to construct the improvements and shall obtain a flowage easement over any downstream properties not belong to the State.

DRAINAGE NOTES (CONT.):

(3) Kaloi Stream Drainage: The existing road drainage system between Renton road and Geiger road discharge into Kaloi Stream via the Coral Creek Golf Course, which is the only discharge point available for this segment of the highway. The contractor shall coordinate the location of the drain outlet(s) with the golf course owner and shall obtain the necessary construction easement to construct the improvements and shall obtain a flowage easement over the golf course for the new drainage system.

(4) Gentry East Makai Sump Drainage: The road drainage system tributary to the Gentry East Makai Sump shall be coordinated with Gentry Homes. The residential development south of Iroquois Point Road (after the topographic survey was taken) provides drain inlets along but outside the highway ROW that connects to the subdivision system. The road drainage system should not connect to those inlets. It should be a separate drainage system that connect to Gentry East Makai system at a location coordinated with Gentry Homes. The contractor shall obtain a flowage easement through Gentry's development.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE GENERAL SITE PLAN

FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD
FEDERAL AID PROJECT NO. CMAQ-076-1(9)
DATE: April 1, 2005

SHEET No. 1 OF 1 SHEETS

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