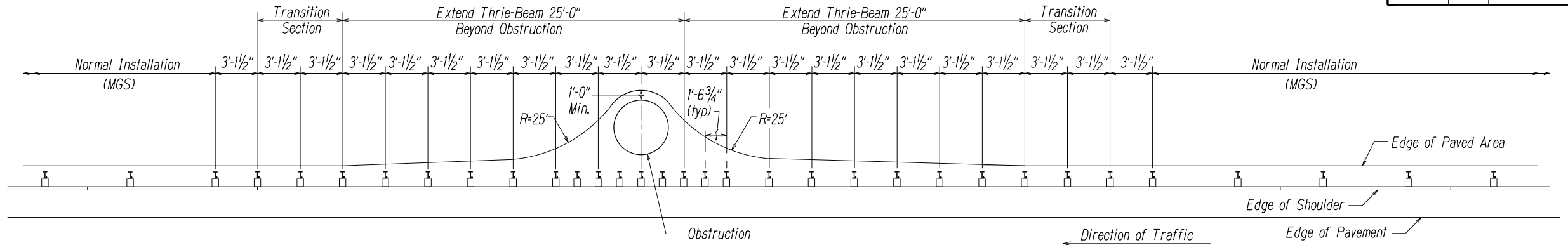
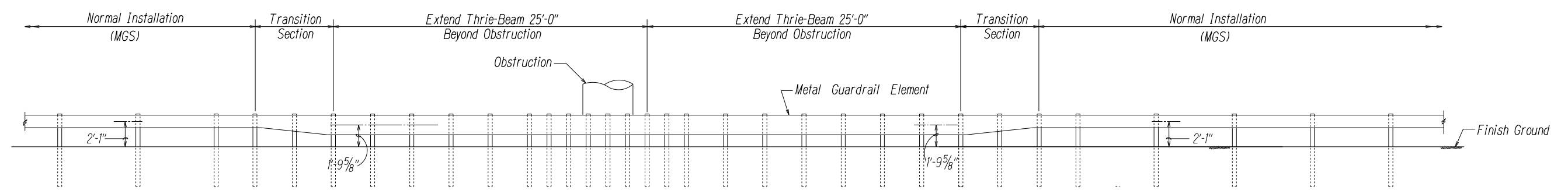


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(083)	2019	13	14



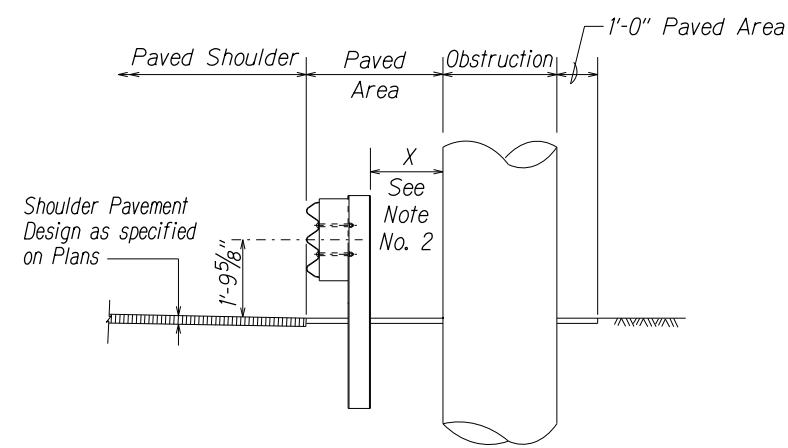
PLAN



ELEVATION

NOTES:

1. All Guardrail and Concrete Barrier Designs at Obstructions shall be approved by the Engineer.
2. If $X < 2'-0"$, Concrete Barrier or special guardrail design;
 $2'-0" \leq X < 4'-1"$, Strong Post Thrie-Beam with reduced post spacing;
 $4'-1" \leq X$, MGS with 6'-3" post spacing (Normal Installation).



TYPICAL SECTION AT OBSTRUCTION

DETAIL OF GUARDRAIL INSTALLATION AT OBSTRUCTION

ORIGINAL PLAN	DATE	DESIGNED BY	CHECKED BY
NOTE	BOOK	DESIGNED BY	CHECKED BY
NOTE	BOOK	DESIGNED BY	CHECKED BY
NOTE	BOOK	DESIGNED BY	CHECKED BY

12/12/2019 10:12:01 1dTrudy/guardrail/RefNew.dgn (Standard plan TE-53 709/01/87 # TE-54 11/03/89)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GUARDRAIL DETAILS
(AT OBSTRUCTION)
GUARDRAIL & SHOULDER IMPROVEMENTS
AT VARIOUS LOCATIONS, PART 5
Federal-Aid Project No. STP-0700(083)
Scale: NTS Date: Mar. 2019
SHEET No. 5 OF 5 SHEETS