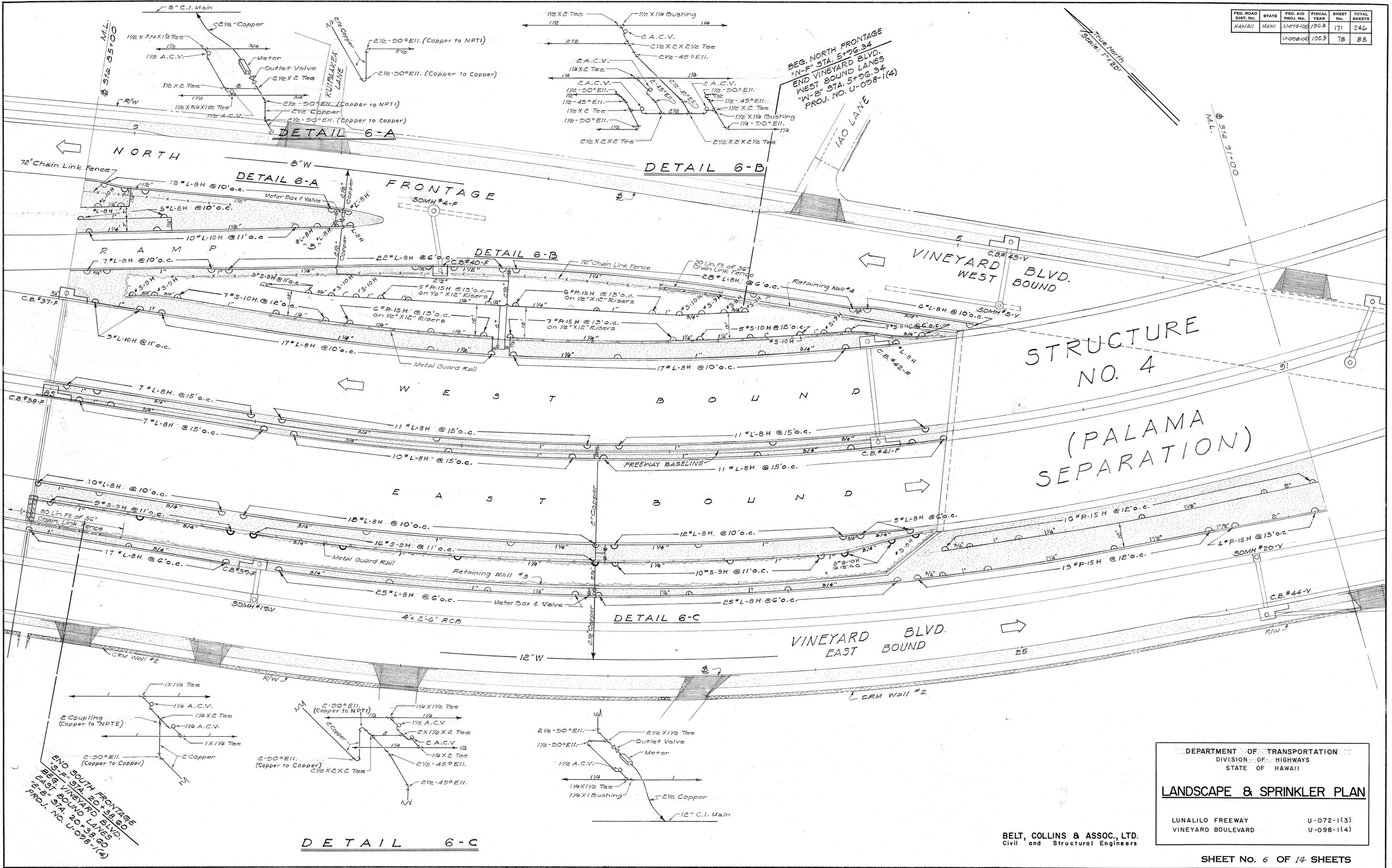


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-072-1(3)	1968	171	246
		U-098-1(4)	1963	78	88



SURVEY PROVIDED BY VESCH-SCHUBERT DATE
 DRAWN BY S. L. T. 6. Abs
 CHECKED BY G. L. A. 6. Abs
 QUANTITIES CHECKED BY
 NOTE BOOK NO.

END SOUTH FRONTAGE
 "S-F" STA. 20+38.60
 "EAST BOUND LANE"
 "E-B" STA. 20+39.60
 PROJ. NO. U-098-1(4)

DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STATE OF HAWAII
LANDSCAPE & SPRINKLER PLAN
 LUNALILO FREEWAY U-072-1(3)
 VINEYARD BOULEVARD U-098-1(4)

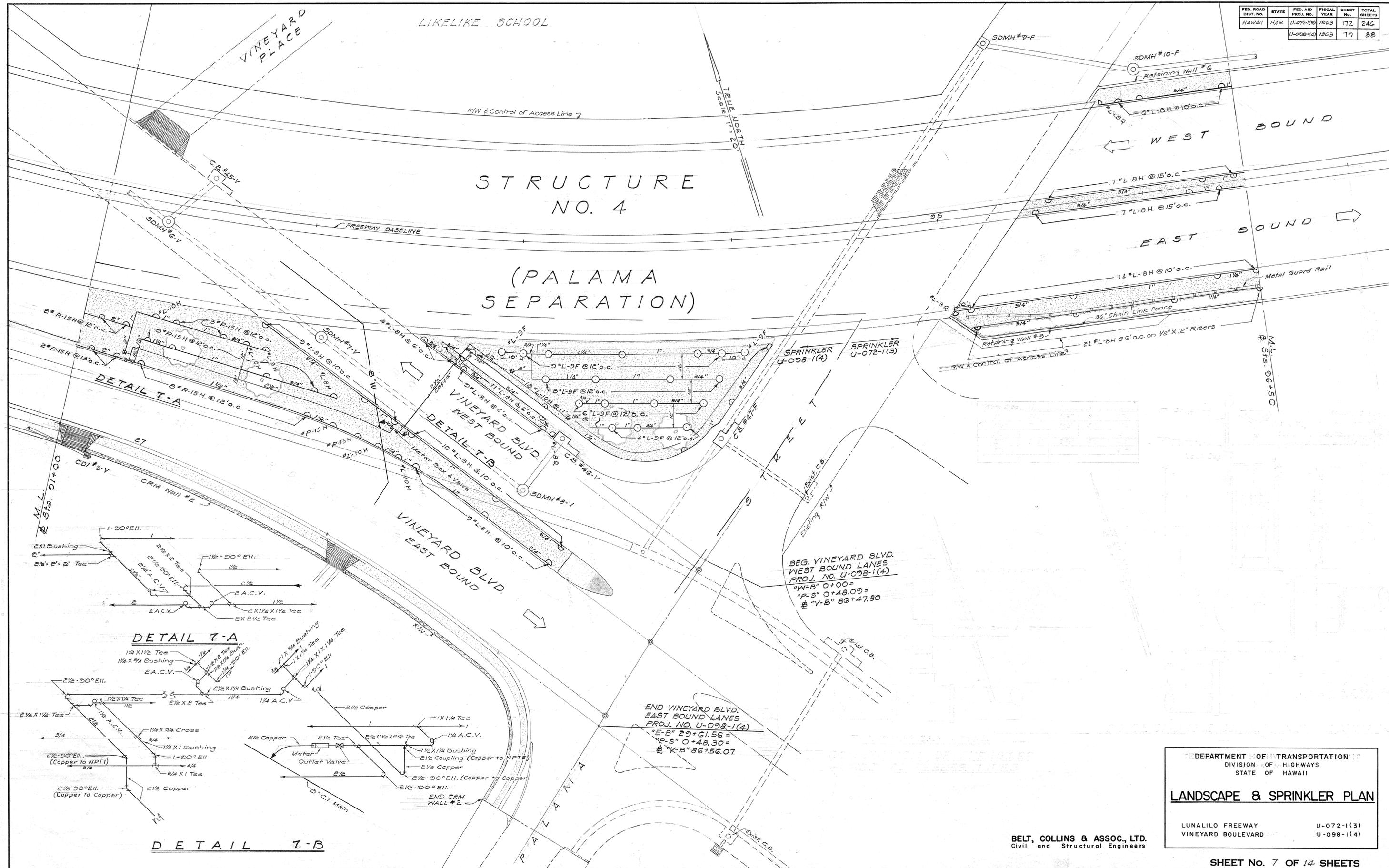
BELT, COLLINS & ASSOC., LTD.
 Civil and Structural Engineers

SHEET NO. 6 OF 14 SHEETS

U09810400.78

U07210300.171

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	U-072(3)	1963	172	246
		U-098(4)	1963	77	88



BEG. VINEYARD BLVD.
WEST BOUND LANES
PROJ. NO. U-098-1(4)
"W-B" 0+00=
"P-S" 0+48.09=
"Y-B" 86+47.80

END VINEYARD BLVD.
EAST BOUND LANES
PROJ. NO. U-098-1(4)
"E-B" 29+61.56=
"P-S" 0+48.30=
"K-B" 86+56.07

SURVEY PLOTTED BY	DATE
DESIGNED BY	
DRAWN BY	
CHECKED BY	
QUANTITIES CHECKED BY	
NOTE BOOK	
NO.	

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STATE OF HAWAII

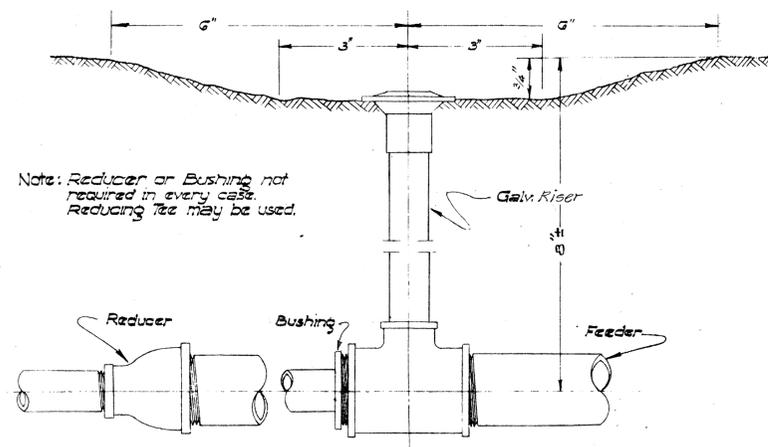
LANDSCAPE & SPRINKLER PLAN

LUNALILO FREEWAY U-072-1(3)
VINEYARD BOULEVARD U-098-1(4)

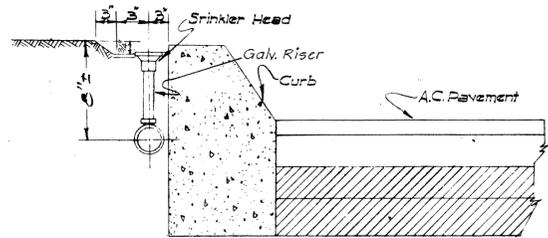
BELT, COLLINS & ASSOC., LTD.
Civil and Structural Engineers

SHEET No. 7 OF 14 SHEETS

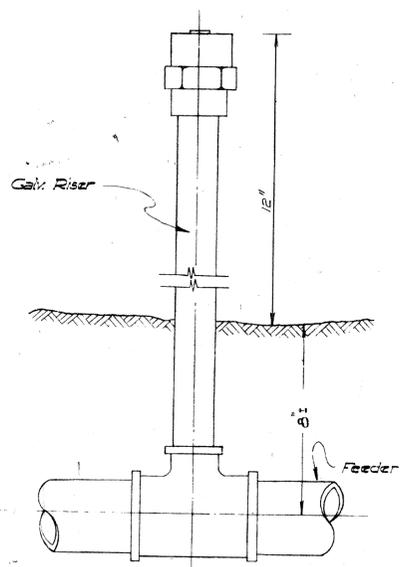
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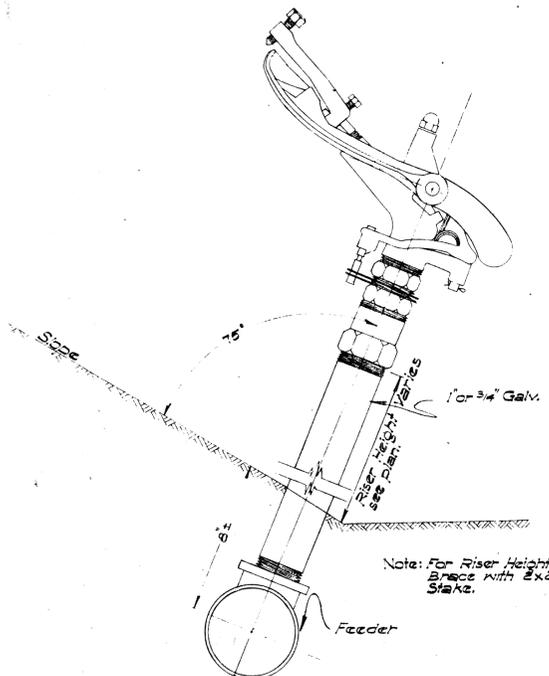
CONNECTION OF SPRINKLER HEAD TO FEEDER PIPE
Not to Scale



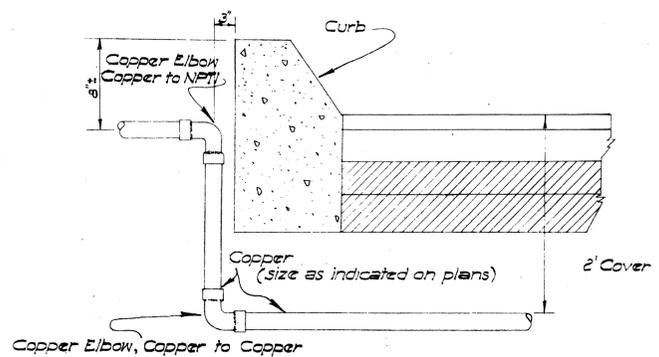
TYPICAL DETAIL OF SPRINKLER AT CONC. CURB
Not to Scale



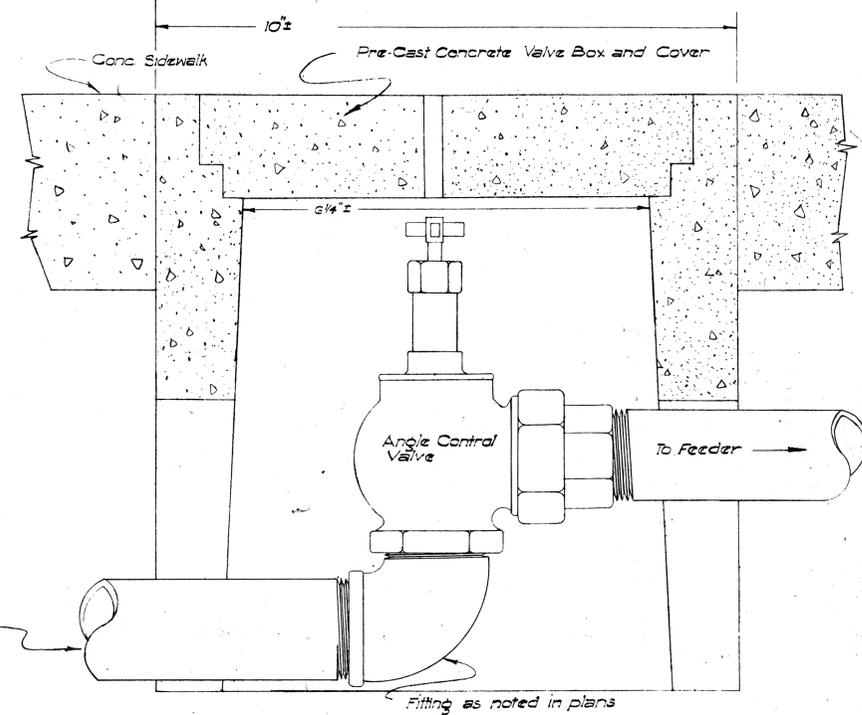
DETAIL OF SHRUBBERY HEAD
Not to Scale



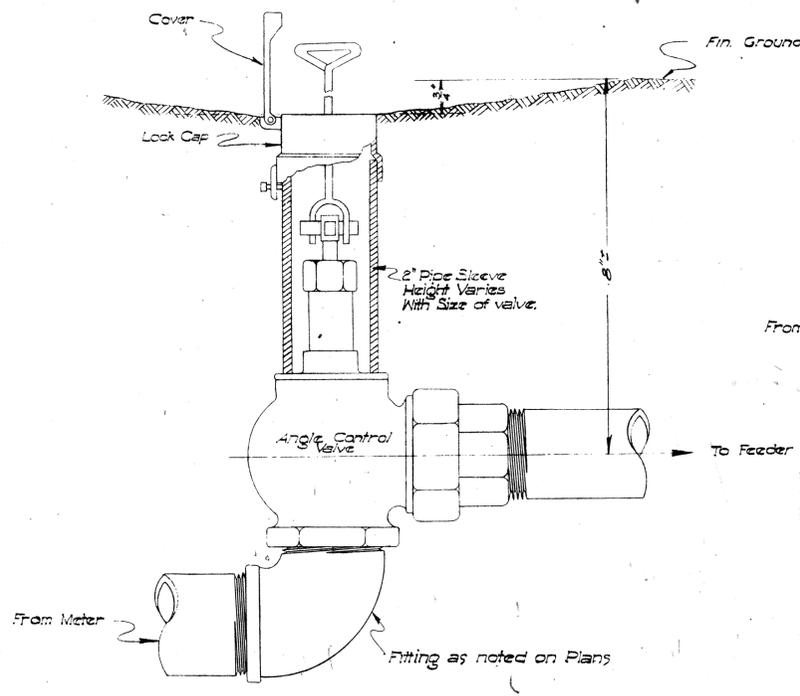
INSTALLATION OF JET SPRINKLER ON SLOPE
Not to Scale



TYPICAL DETAIL OF ROADWAY CROSSING
Not to Scale



ANGLE CONTROL VALVE IN SIDEWALK AREA
Not to Scale



ANGLE CONTROL VALVE HOUSING & CAP
Not to Scale

GENERAL NOTES

1. All copper pipes shall be connected with solder type fittings of bronze castings or wrought copper.
2. Pipes not noted "Copper" are to be Galvanized Iron Screw Pipes, and fittings not noted "Copper" are to be Galvanized Malleable Iron Fittings.
3. After complete installation of the sprinkler system, each sprinkler head shall be adjusted to the satisfaction of the Engineer.

APPROVED: _____ DATE: Aug. 26, 1959
STATE HIGHWAY ENGINEER

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STATE OF HAWAII

STANDARD DETAILS
SPRINKLER SYSTEM

Not to Scale

DATE: 8/15/59
SURVEY PLOTTED BY: _____
DRAWN BY: J.A. METCAL
NOTE BOOK QUANTITIES CHECKED BY: _____
CHECKED BY: _____

W O 9 S 1 0 4 0 0 . S 0

W O 7 2 1 0 3 0 0 . 1 7 9