

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHI-1(31)21 Unit 3	1968	41	47

Revised : 12-6-68

LEGEND AND SPRINKLER HEAD SPECIFICATIONS						
SYMBOL	NUMBER	TYPE	PRESSURE P.S.I.	RADIUS OF COVERAGE	FLOW (GPM)	RISER
▼	L - 10F	Lawn - Full Circle	20	10'	3.0	1/2" I.P.S.
▽	L - 10H	Lawn - Half Circle	20	10'	2.5	1/2" I.P.S.
●	S - 10F	Shrubbery - Full Circle	20	10'	3.0	1/2" I.P.S.
•	S - 10H	Shrubbery - Half Circle	20	10'	2.5	1/2" I.P.S.
○	S - 8H	Shrubbery - Half Circle	10	8'	1.0	1/2" I.P.S.
○	S - 8F	Shrubbery - Full Circle	10	8'	2.0	1/2" I.P.S.
	Nozzle	Spray Nozzle	15	8'	0.75	
◇	J - 30	Rocker Jet - Part Circle 3/4" Nozzle	20	30'	2.6	1/2" I.P.S.
⊙		Atmospheric Vacuum Breaker				
⊠		Water Meter (Furnished & Installed by BWS)				
⊞		Shut-Off Valve w/ Box				
⊗		Angle Control Valve w/ Type "A" Valve Box				

NOTES:

- "Pressure" is the minimum pressure, in pounds per square inch, which is available at the base of the last head. The operating pressure of acceptable heads must not exceed this value when operating at the tabulated flow and radius.
- "Radius of Coverage" is the minimum radius at the tabulated pressure.
- "Flow" is the maximum flow, in gallons per minute, which is discharged at the tabulated pressure.

GENERAL NOTES

- All pipes under the pavement shall be copper.
- Risers shall be 1/2" galvanized steel pipes unless otherwise called for.
- Final location of meters, valves, pressure regulators and vacuum breakers shall be determined by the Engineer.
- Unless otherwise called for or directed by the Engineer, the centerline of the feeder pipe shall be located 3" from the back of curbs or 12" from the fence line or guard rail posts.
- Pipes shall be galvanized steel and fittings shall be malleable iron, unless otherwise called for.
- When the consumers' water service will be interrupted, the Contractor shall notify each consumer and the Board of Water Supply concerning the time and duration of the shut-down.
- Asterisk (*) indicates work will be performed by B.W.S. Materials shall be furnished by the Contractor.
- See Sheet No. 27 for Type III Water Meter Box.
- See Sheet No. 43 for Nozzle Line and Control Assembly Details.
- See Sheet No. 16 for general water notes.
- The Board of Water Supply will make all taps to the existing mains for service laterals. The Contractor shall perform all excavation and backfill and furnish the appropriate size corporation stops.

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
SPRINKLER SYSTEM
INTERSTATE ROUTE H-1 PELE ST. TO VICTORIA ST.
E.A.I. Proj. No. I-HI-1(31)-21, Unit 3 Date: Aug., 1968

SHEET No. 1 OF 5 SHEETS

Revised: 12-6-68

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHH(3)21 Unit 3	1968	42	47

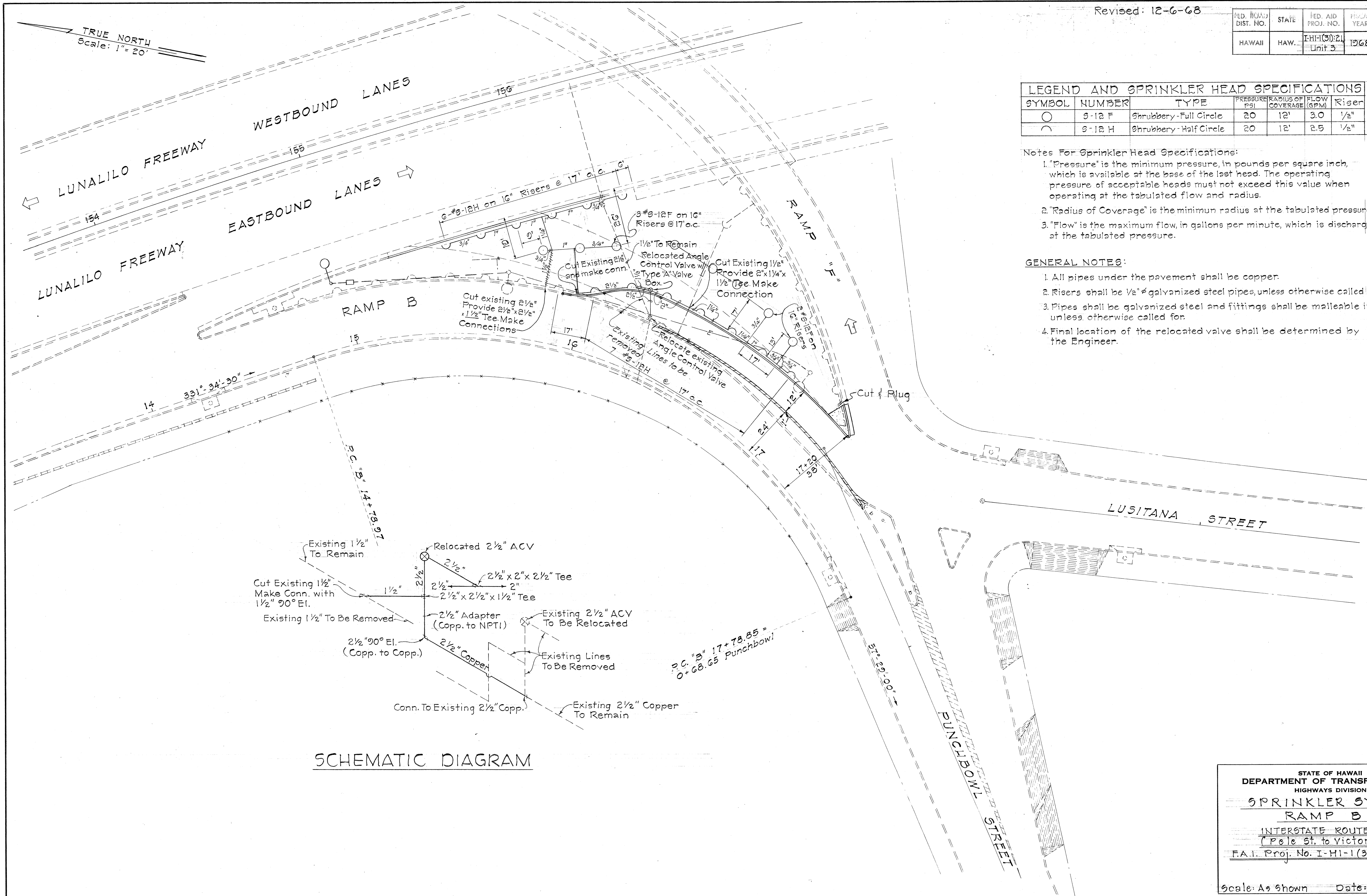
SYMBOL	NUMBER	TYPE	PRESSURE (PSI)	RADIUS OF COVERAGE	FLOW (GPM)	RISER
○	S-12 F	Shrubbery - Full Circle	20	12'	3.0	1/2"
◌	S-12 H	Shrubbery - Half Circle	20	12'	2.5	1/2"

Notes For Sprinkler Head Specifications:

1. "Pressure" is the minimum pressure, in pounds per square inch, which is available at the base of the last head. The operating pressure of acceptable heads must not exceed this value when operating at the tabulated flow and radius.
2. "Radius of Coverage" is the minimum radius at the tabulated pressure.
3. "Flow" is the maximum flow, in gallons per minute, which is discharged at the tabulated pressure.

GENERAL NOTES:

1. All pipes under the pavement shall be copper.
2. Risers shall be 1/2" galvanized steel pipes, unless otherwise called for.
3. Pipes shall be galvanized steel and fittings shall be malleable iron, unless otherwise called for.
4. Final location of the relocated valve shall be determined by the Engineer.



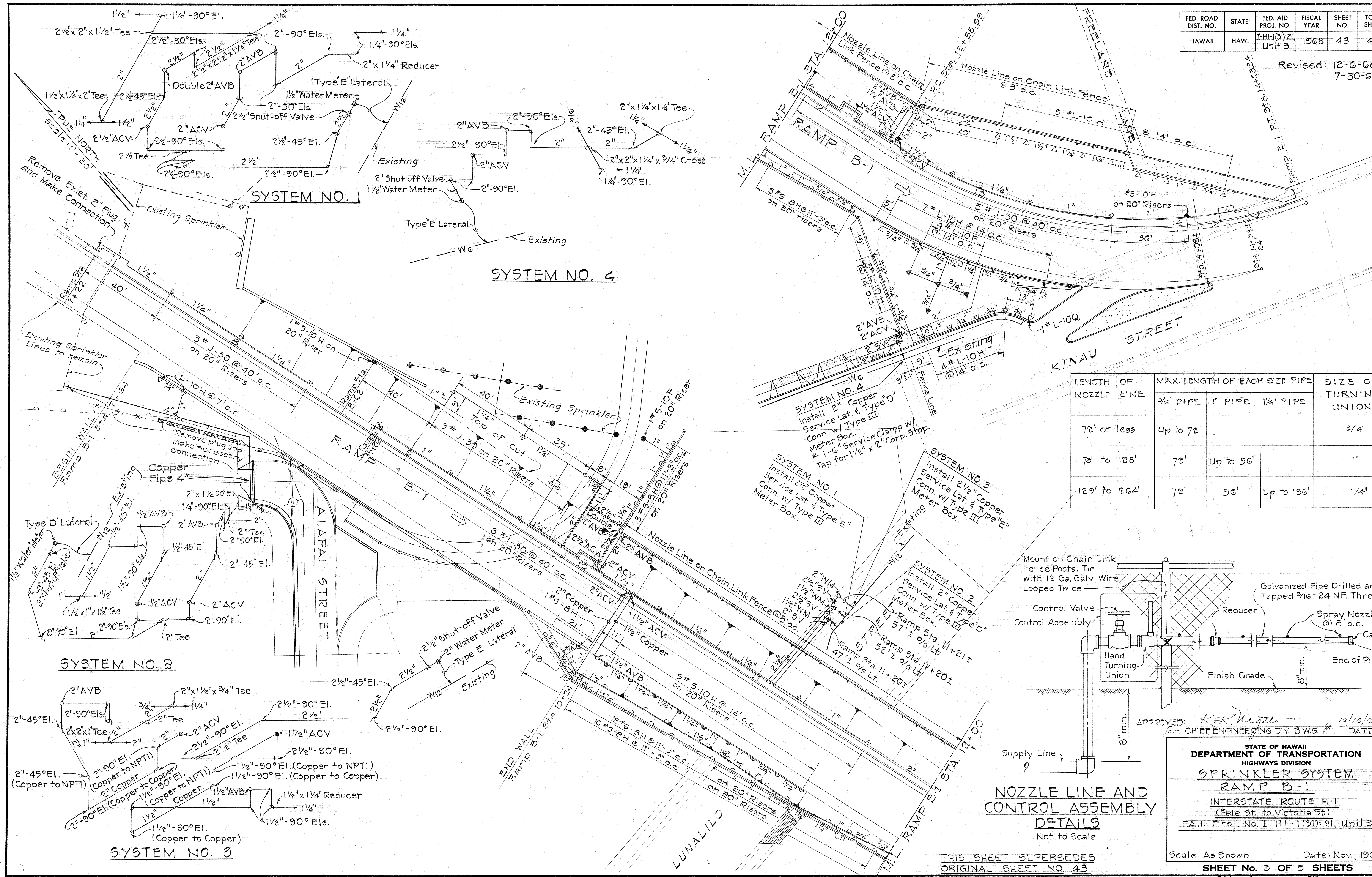
SCHEMATIC DIAGRAM

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SPRINKLER SYSTEM
RAMP B
INTERSTATE ROUTE H-1
(Pele St. to Victoria St.)
F.A.I. Proj. No. I-HI-1 (31): 21, Unit 3

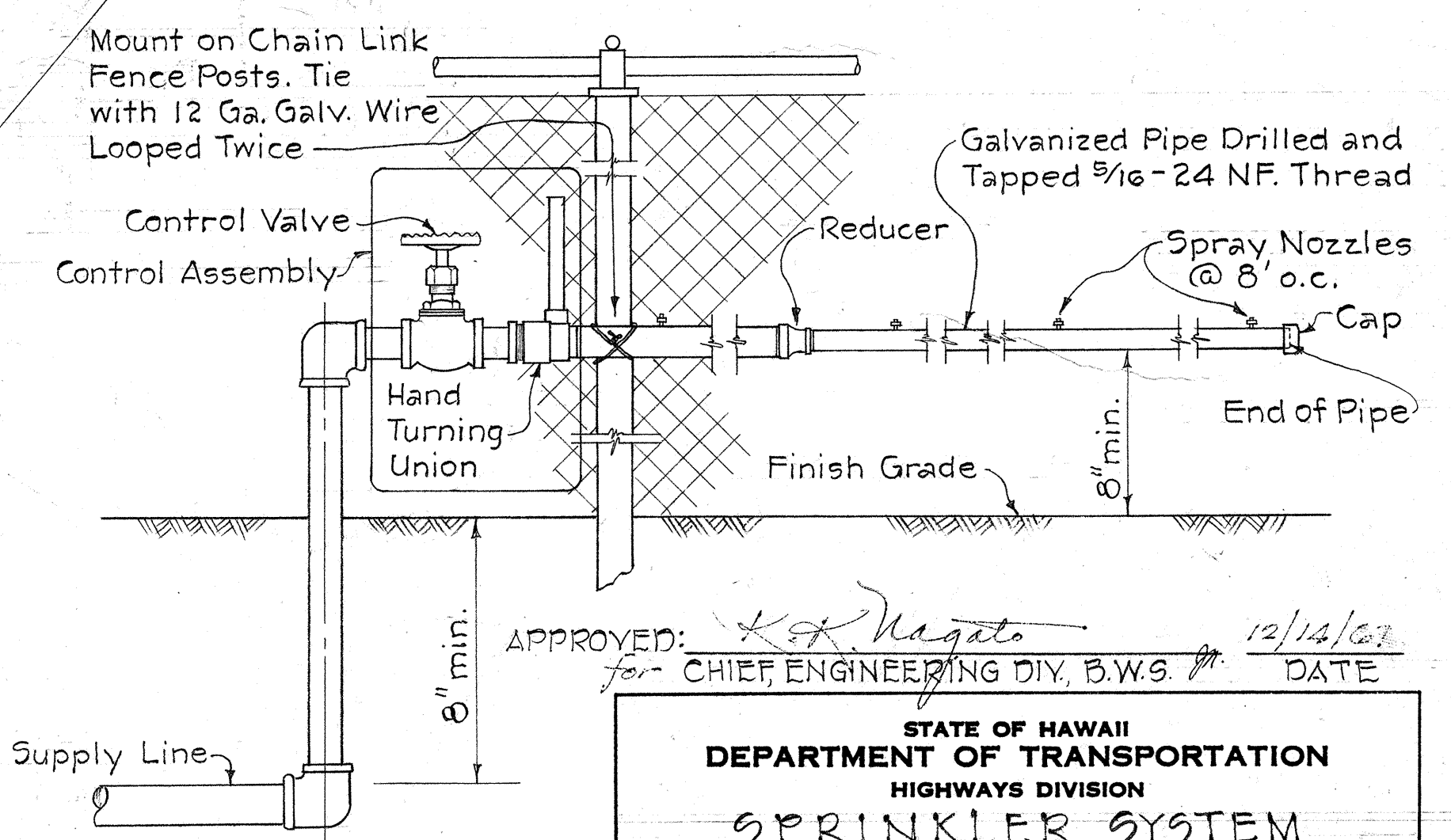
Scale: As Shown Date: Aug., 1968
SHEET No. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(31)21 Unit 3	1968	43	47

Revised: 12-6-68
7-30-69



LENGTH OF NOZZLE LINE	MAX. LENGTH OF EACH SIZE PIPE			SIZE OF TURNING UNION
	3/4" PIPE	1" PIPE	1 1/4" PIPE	
72' or less	Up to 72'			3/4"
73' to 128'	72'	Up to 56'		1"
129' to 264'	72'	56'	Up to 136'	1 1/4"



NOZZLE LINE AND CONTROL ASSEMBLY DETAILS
Not to Scale

APPROVED: *[Signature]* 12/14/67
CHIEF ENGINEERING DIV. B.W.S. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SPRINKLER SYSTEM
RAMP B-1
INTERSTATE ROUTE H-1
(Pele St. to Victoria St.)
E.A.I. Proj. No. I-H-1(31)21, Unit 3

Scale: As Shown Date: Nov., 1967
SHEET No. 3 OF 5 SHEETS

THIS SHEET SUPERSEDES
ORIGINAL SHEET NO. 43

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

Revised: 12-6-68
7-30-69

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