

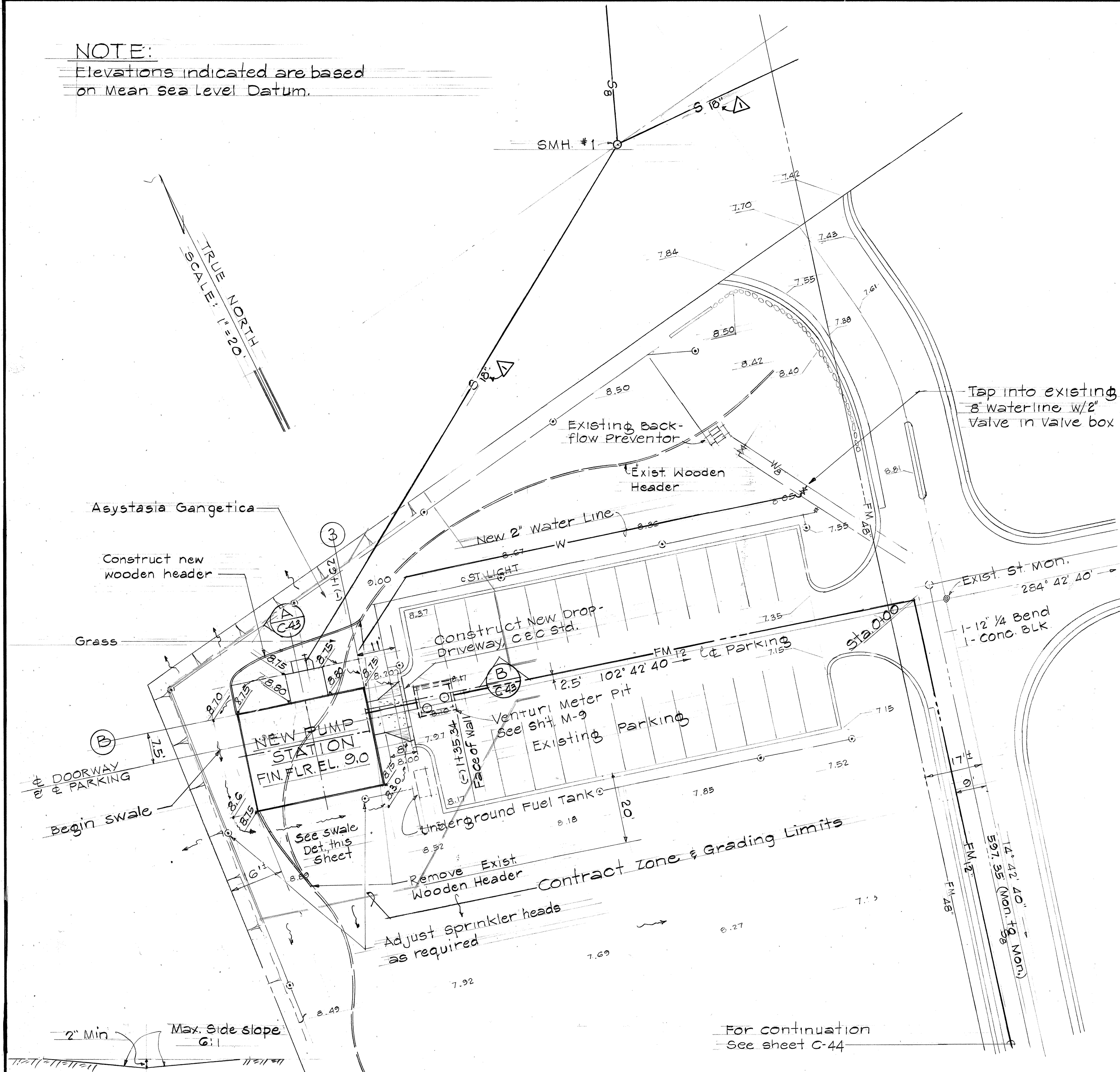
NOTE:
Elevations indicated are based
on Mean Sea Level Datum.

LEGEND

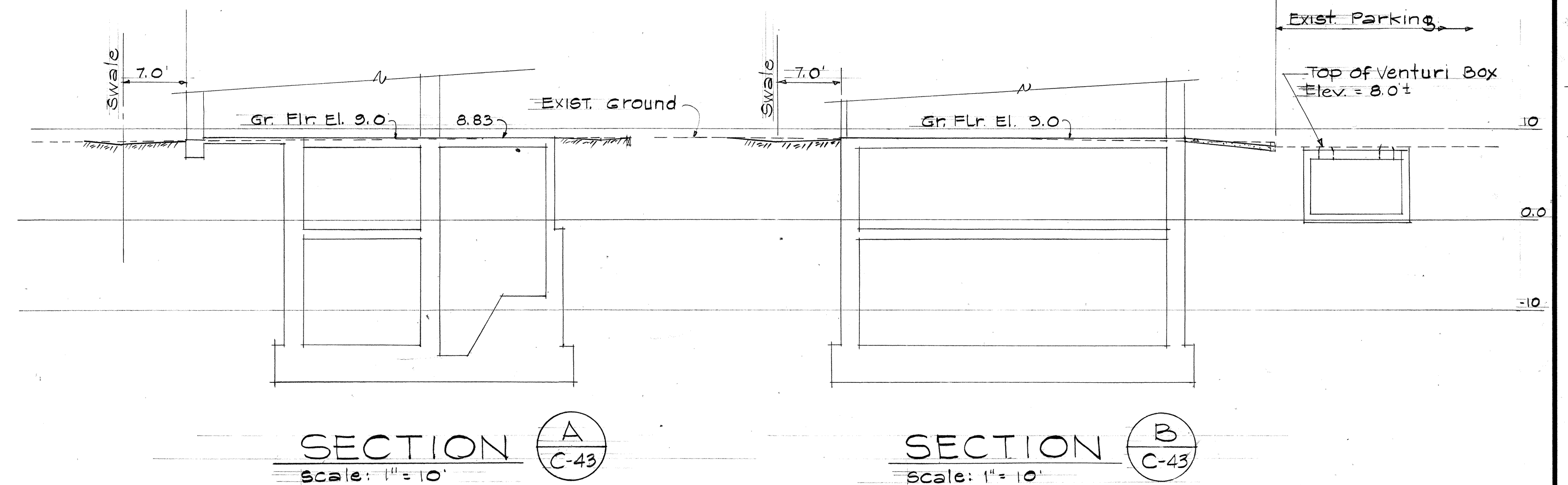
Exist.	New	
8.42	—	Spot Elevations
W	—	Waterline
S	—	Sewerline
S	—	Sprinkler line
	—	curb line
	—	spot elevation
	—	Contract Zone Limits Line & Grading Limit

DESIGN DATA - SAND ISLAND SPS

- A. DESIGN FLOW (INITIAL)
Avg. = 0.144 MGD = 100 GPM
Max. = 0.655 MGD = 455 GPM
Peak = 0.886 MGD = 615 GPM
- DESIGN FLOW (ULTIMATE)
Avg. = 0.714 MGD = 490 GPM
Max. = 2.320 MGD = 1610 GPM
Peak = 2.830 MGD = 1960 GPM
- B. PUMP CAPACITIES
Initial Flow: One pump 1000 GPM @ 44 Ft.
Shutoff Head: 69 Ft.
Future Flow: Two pump 1960 GPM @ 42 Ft.
- C. DESIGN HEAD (ULTIMATE)
Static (Max.) = 31.5 Ft.
Friction = 10.5 Ft.
Total Pumping Head = 42 Ft.
- D. FORCE MAIN
760 L.F. Single Line - 12" Diameter
- E. VENTILATION
Station Volume below grade: 9000 cf.
Extraction Fan (in-duct): 3200 cfm @ 1/4" SWG
Ventilation Rate: 2.8 minutes/air change
- F. EQUIPMENT COVERED BY GENERATOR
2 pump motors
Station Lighting
Station Ventilation

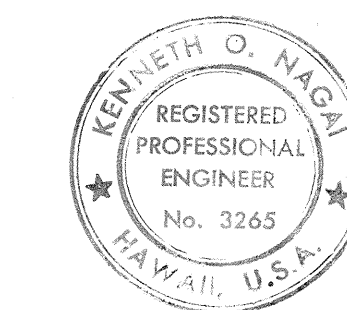
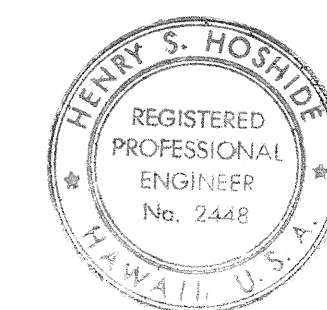


SITE PLAN
SCALE: 1" = 20'



WILSON OKAMOTO & ASSOC. ENGINEERS - ARCHITECTS - PLANNERS HONOLULU HAWAII		REVISIONS	
SYMBOL		DESCRIPTION	DATE
SYMBOL		DESCRIPTION	DATE
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT SAND ISLAND PARKWAY INCREMENT II, PHASE I & SEWAGE PUMP STATION SAND ISLAND, OAHU, HAWAII SITE PLAN - NEW PUMP STATION			
DESIGNED: KON, RY	SUBMITTED:	CHIEF DESIGN & CONSTR. ENGINEER	
DRAWN: A.O	CHECKED: KON	DATE: 5/21/80	FILE NO.
APPROVED:	MANAGER-CHIEF ENGINEER		

APPROVED:
CHIEF DIV. OF ENGR. & DATE
(FOR GRADING ONLY)
CHIEF DIV. OF WASTEWATER
MANAGEMENT



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Signature

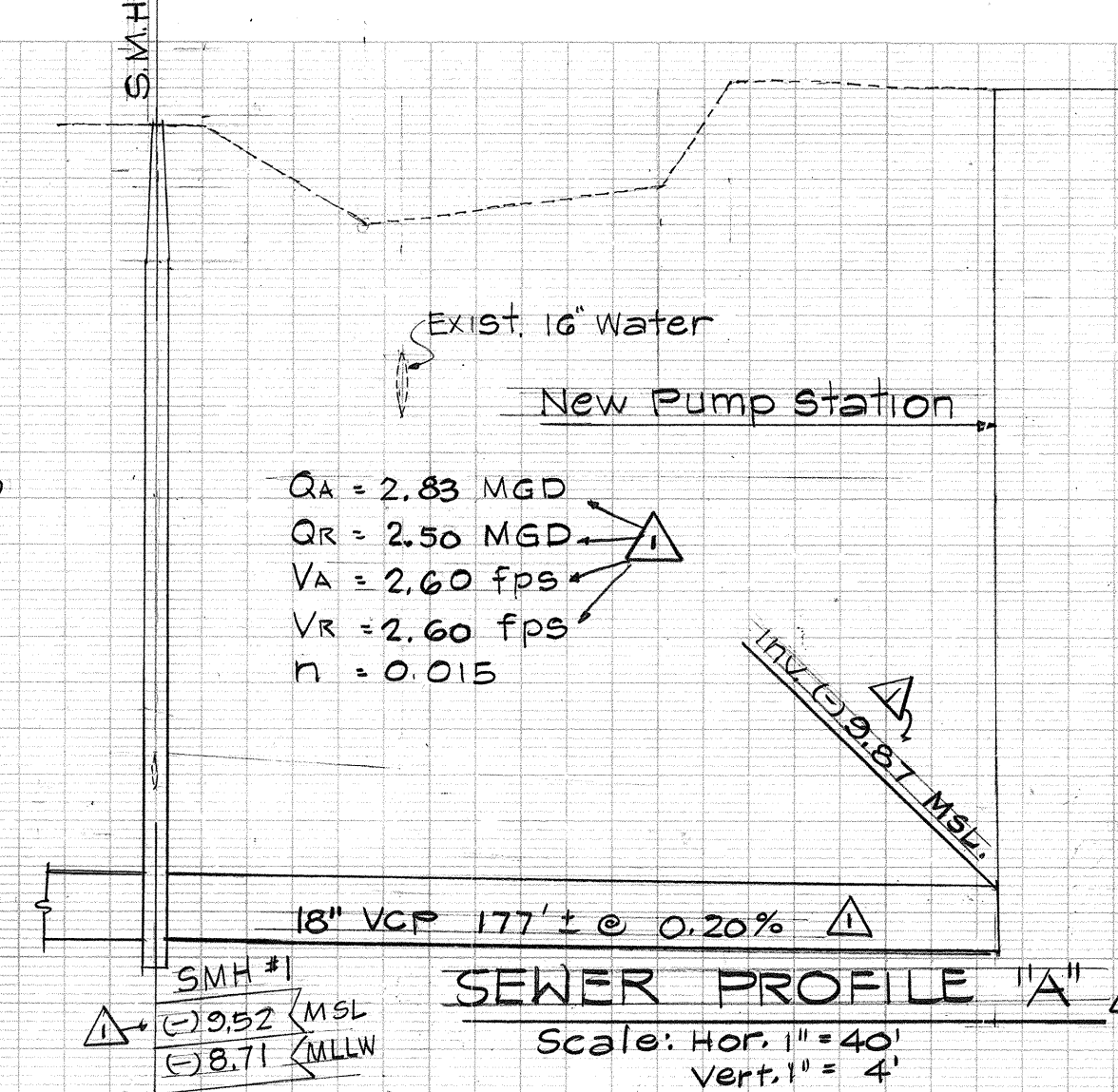
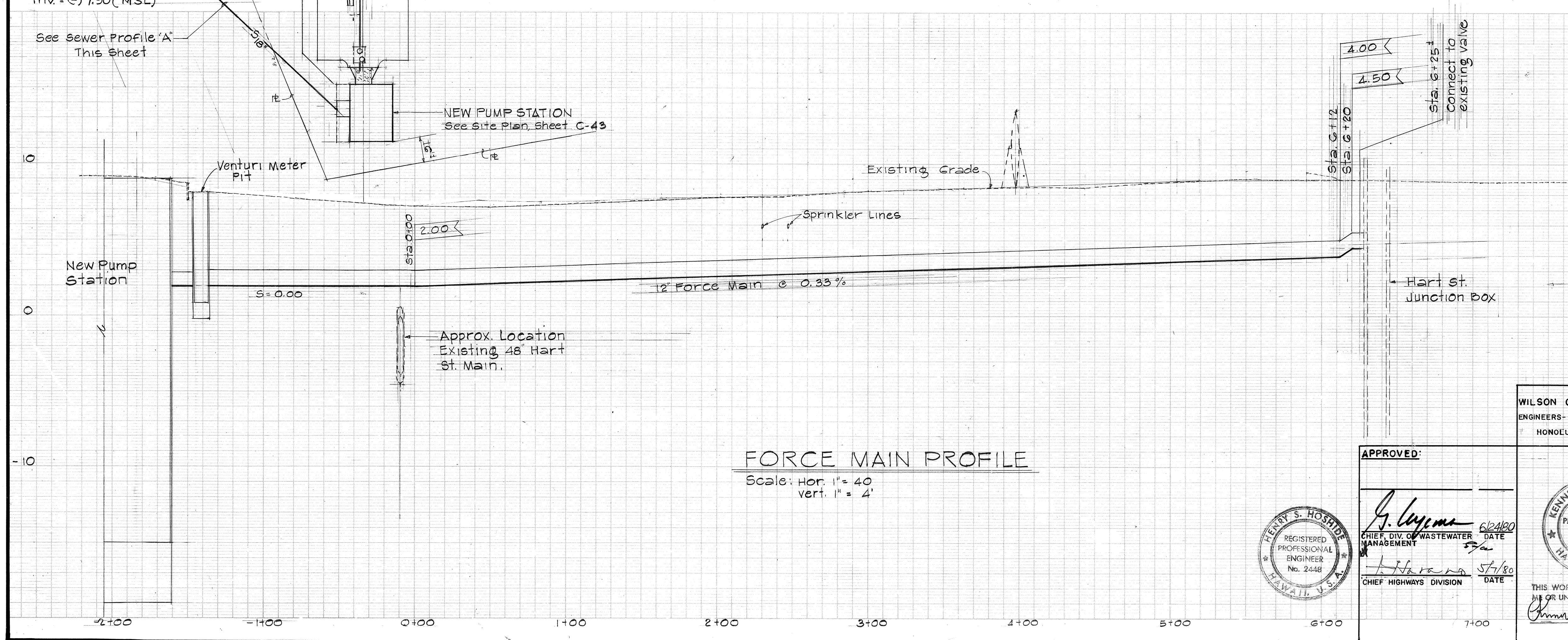
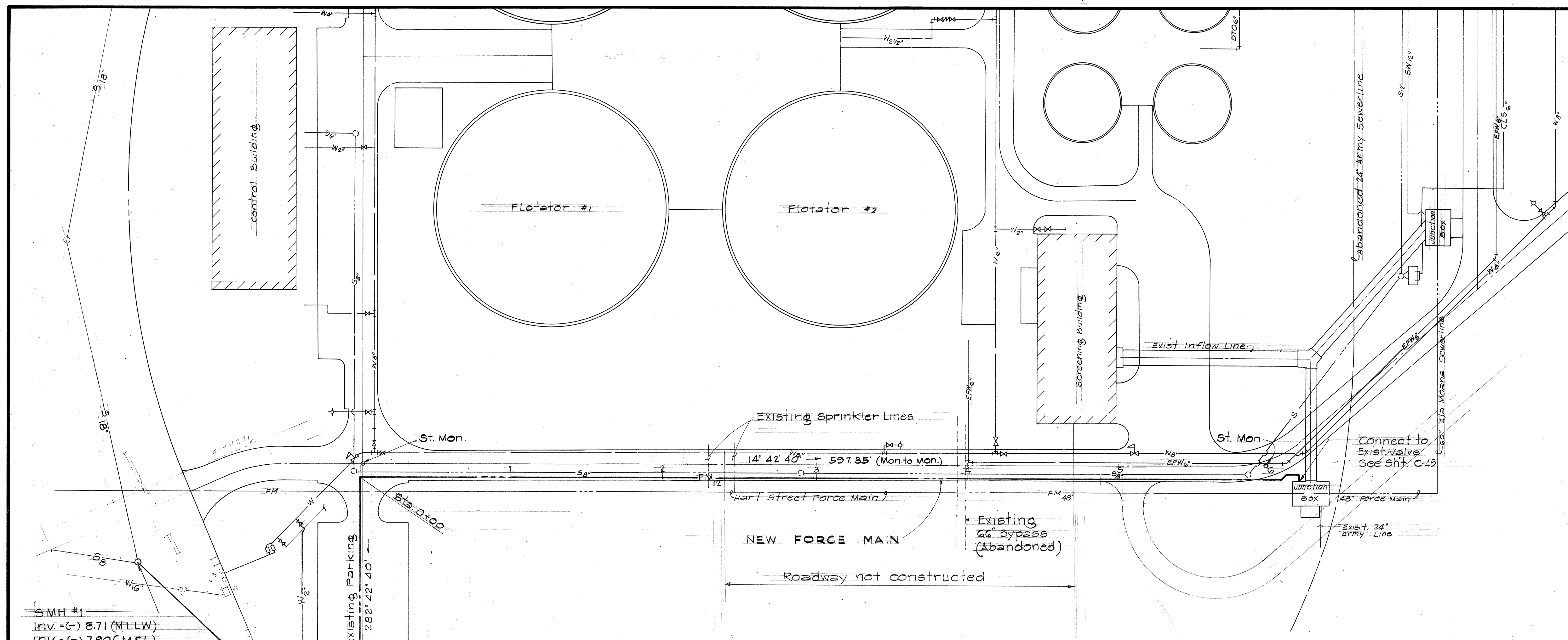
TRUE NORTH
SCALE: 1" = 40'

LEGEND

Existing	New	Description
---	---	Sewerline
---	---	Scrub waterline
---	---	Effluent
---	---	PVC Chlorine Line
---	---	Waterline
---	---	Fire Hydrant w/ Valve & Curb Box
---	---	Gate Valve & Valve Box
---	---	Air Relief Valve
---	---	Decant Tank Overflow
---	---	Sewer Manhole
---	---	Building
---	---	FM Force Main
---	---	Backflow Preventor

NOTES:

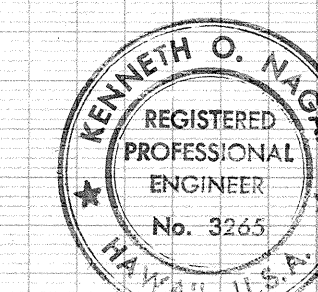
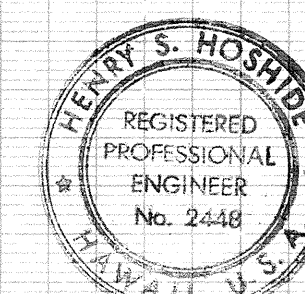
- Elevations indicated are based on Mean Sea Level Datum unless otherwise noted.
- Grade along new 12" Force Main derived from "As Built" drawings. Contractor to verify grades at the boundaries between old and new works.



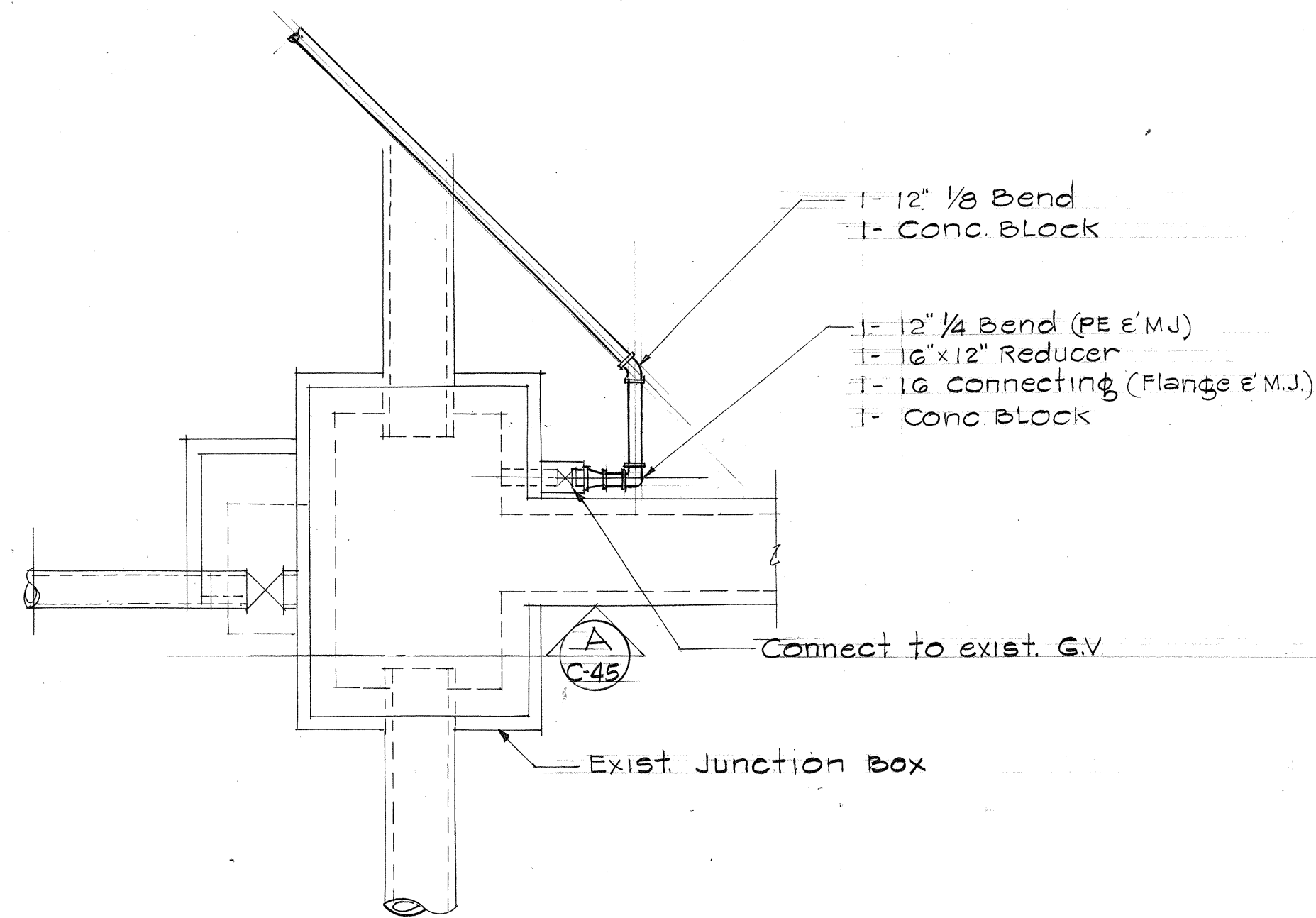
FORCE MAIN PROFILE

Scale: Hor. 1" = 40'
Vert. 1" = 4'

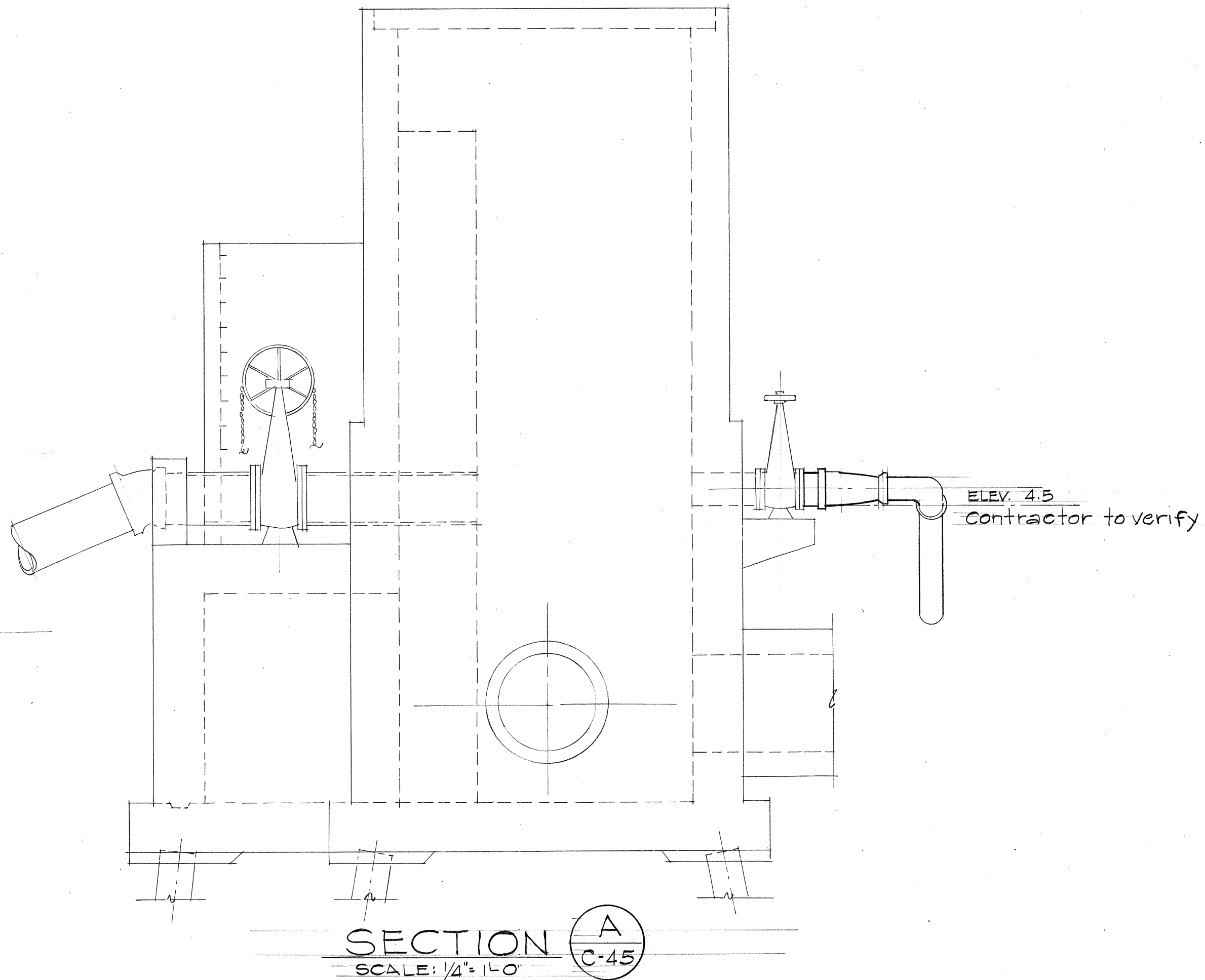
WILSON OKAMOTO & ASSOC. ENGINEERS-ARCHITECTS-PLANNERS HONOLULU HAWAII		REVISED SEWER PROFILE "A"		8-25-80	APP'D
SYMBOL		DESCRIPTION		DATE	APP'D
REVISIONS					
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT SAND ISLAND PARKWAY INCREMENT II, PHASE I & SEWAGE PUMP STATION SAND ISLAND, OAHU, HAWAII FORCE MAIN PLAN & PROFILE					
DESIGNED: K. N.		SUBMITTED: <i>Takeshi</i>		CHIEF DESIGN & CONSTR. ENGINEER	
DRAWN: B. N.		DATE: 5/1/80		FILE NO.	
CHECKED: K. N.		DATE: 5/1/80		MANAGER-CHIEF ENGINEER	
APPROVED: <i>Robert H. Chubb</i>		DATE: 5/1/80			



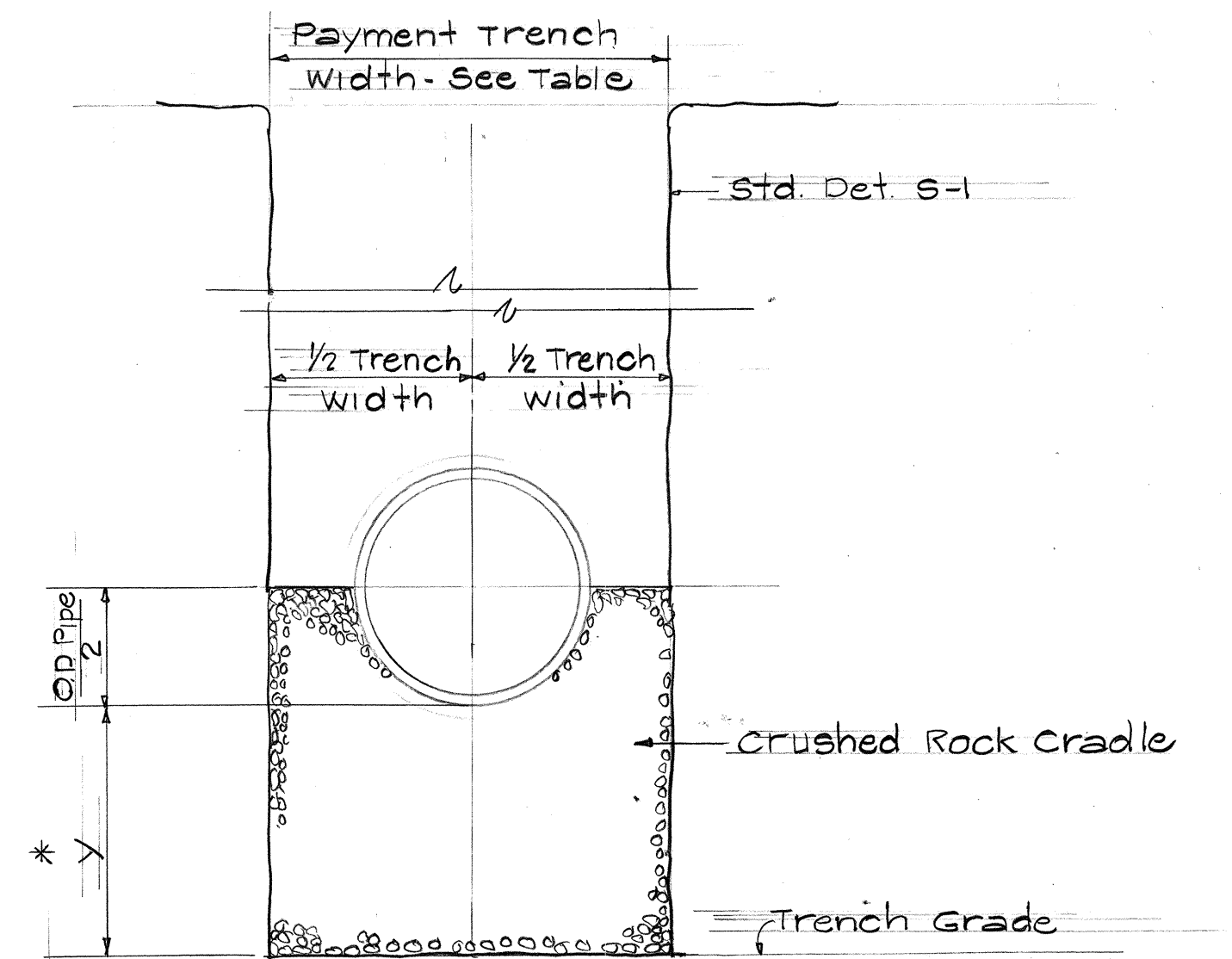
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert H. Chubb
Signature



PLAN- HART ST. JUNCTION BOX
SCALE: 1" = 10'

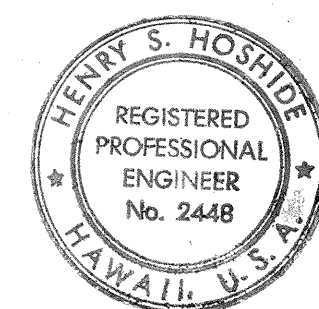


SECTION A-C-45
SCALE: 1/4" = 1'-0"

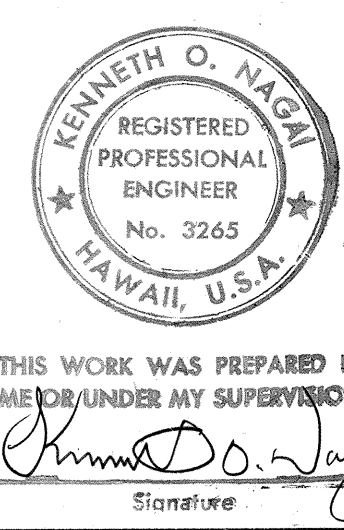


*Trench grade shall be founded on coral or "y" distance shall be increased to a maximum of 3 feet

TRENCH BEDDING-ALTERNATE
(GRAVITY SEWER)
Not to scale



APPROVED:
G. Uyama 6/24/80
CHIEF, DIV. OF WASTEWATER MANAGEMENT



WILSON OKAMOTO & ASSOC. ENGINEERS-ARCHITECTS-PLANNERS HONOLULU HAWAII				
SYM	DESCRIPTION	DATE	APP'D	
REVISIONS				
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF WATER AND LAND DEVELOPMENT SAND ISLAND PARKWAY INCREMENT II, PHASE I & SEWAGE PUMP STATION SAND ISLAND, OAHU, HAWAII CONNECTION DETAIL - JUNCTION BOX				
DESIGNED: K.N.	SUBMITTED:			
DRAWN: R.N.	CHIEF DESIGN & CONSTR. ENGINEER			
CHECKED: KON, HH	DATE: 5/1/80			
APPROVED: <i>Robert H. Chubb</i>	MANAGER-CHIEF ENGINEER			FILE NO.
DATE: 5/1/80				