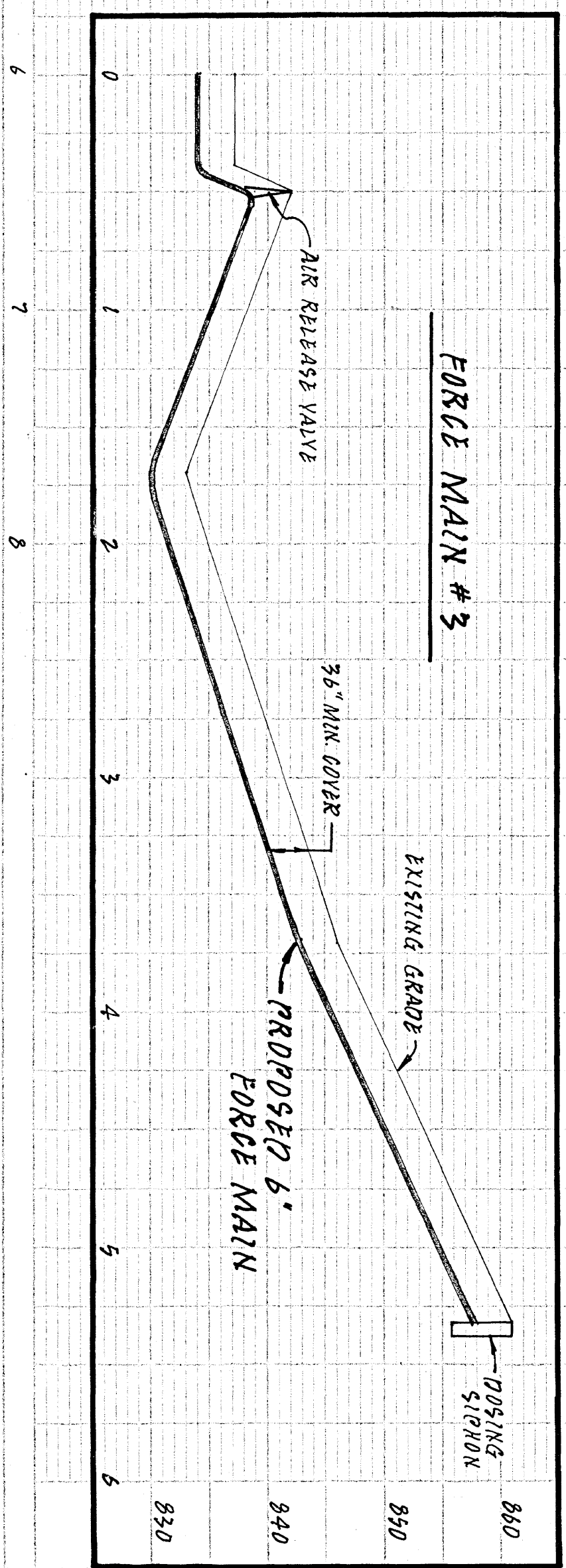
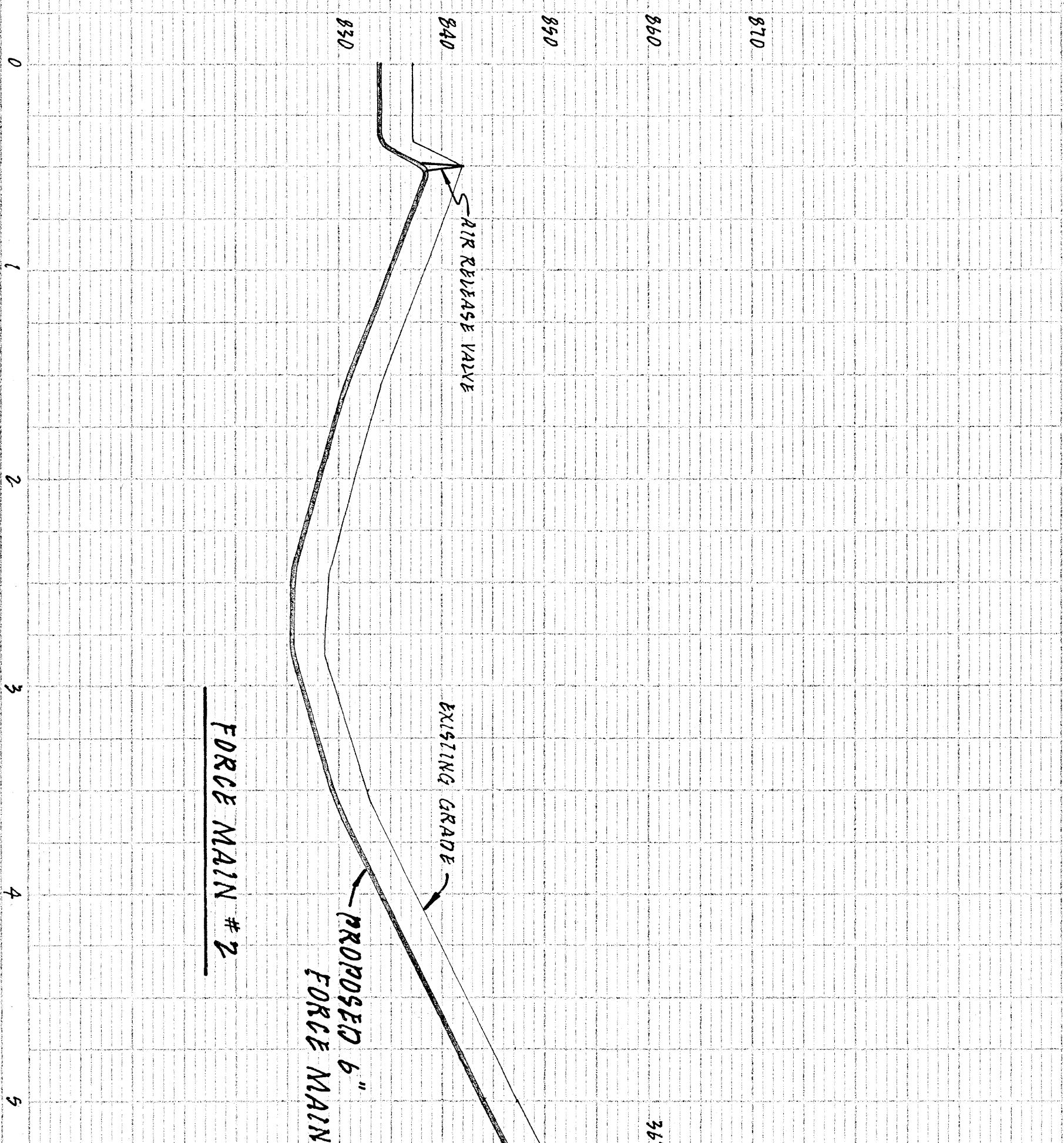
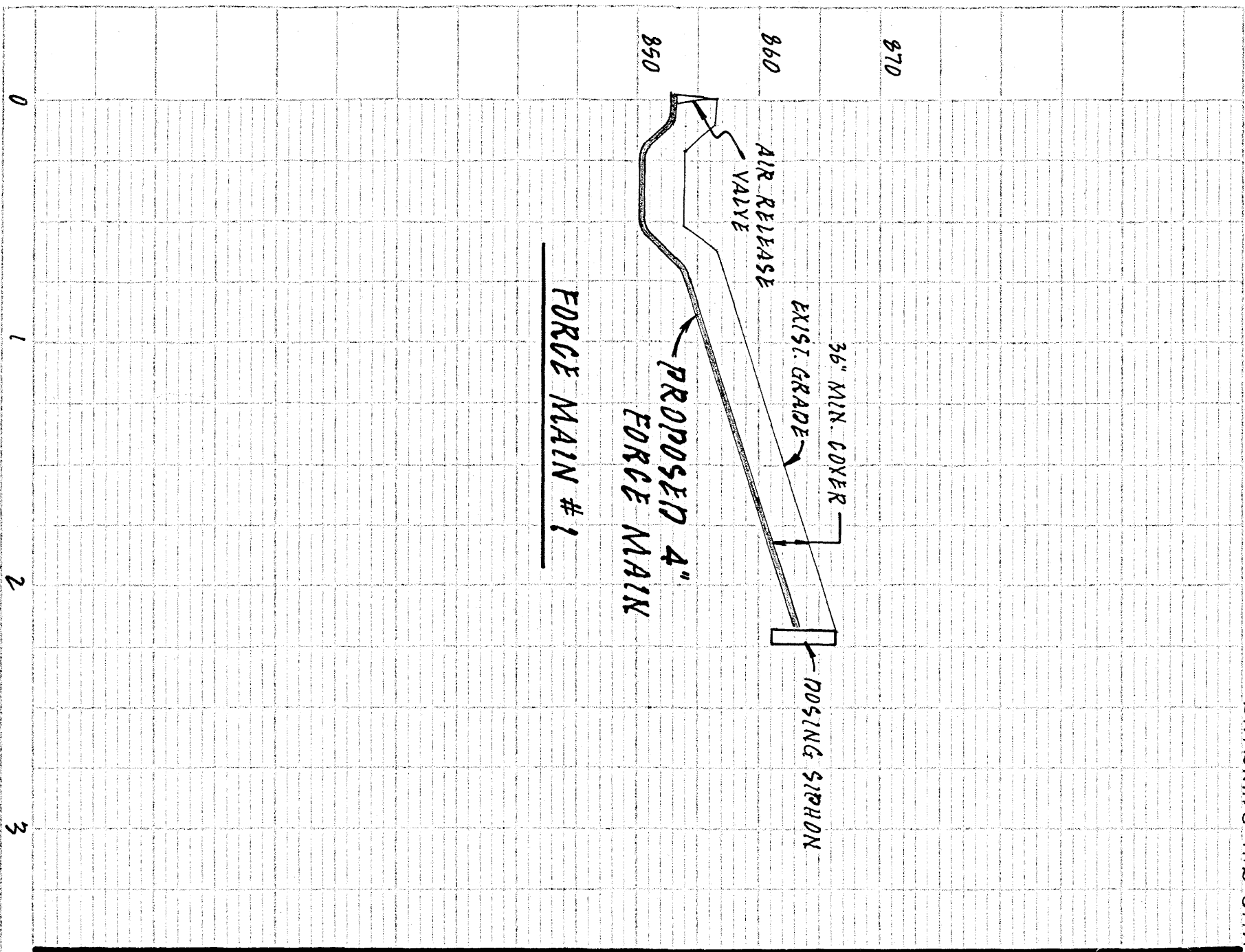


DATE	10/1/78
PROJECT	SEWAGE TREATMENT PLANT
CLIENT	LOCAL GOVT.
DESIGNER	BRIDLEY HOWELL & ASSOC.
SCALE	1" = 10'

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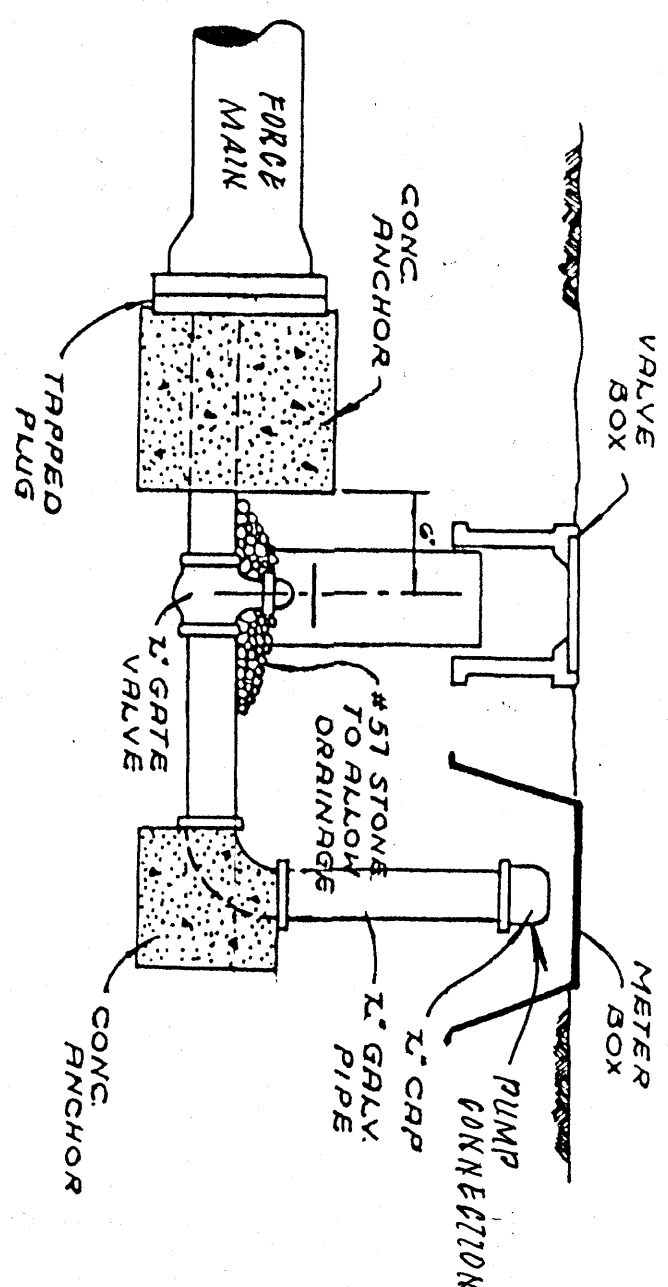
1. STORAGE PUMPS - EACH LOT SHALL PROVIDE AN INDIVIDUAL PUMP STATION - MINIMUM FLOW OF 25 GPM @ 100' TPD.
2. PUMP CONTROLS - PUMPS SHALL BE CONTROLLED BY GOLIUS MODEL ALS 5-1 SIMPLEX CONTROL PANEL WITH REMOTE ALARM MOUNTED INSIDE HOUSE. PUMP CONTROL PANEL SHALL BE INSTALLED IN A SECURE LOCATION. PUMPS SHALL BE INSTALLED TO ALTERNATE THE OPERATION OF THE PUMPS AND SHALL CONTAIN BUILT IN AUDIO-VISUAL ALARMS. FOUR (4) MERCURY LEVEL CONTROL SWITCHES MODEL 63742 SHALL BE PROVIDED AND PLACED AT THE SPECIFIED LEVELS IN THE PUMP STATIONS.
3. PIPING - WITHIN THE PUMP STATION SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH THREADED JOINTS. FORCE MAINS SHALL BE 200 PSI SDR 21 PIPING. INSTALLATION AND TESTING SHALL CONFORM TO THE 1982 SEWAGE HANDLING AND DISPOSAL REGULATIONS.
4. DOSING SIPHON CRITERIA - DOSING SIPHONS SHALL BE MILLER AUTOMATIC SIPHONS INSTALLED IN A VAULT AS SHOWN. THE SIPHON SHALL BE 17 INCHES DIAMETER. THE SIPHON SHALL BE 17 INCHES DEPTH. DRAINAGE FOR THE SIPHON SHALL BE 17 INCHES WHICH IS EQUIVALENT TO 600 GALLONS OF LIQUID Dosed TO THE DRAINFIELD. DOSING RATES WILL AVERAGE 160 GPM. TWO SIPHONS SHALL BE INSTALLED IN EACH VAULT TO AUTOMATICALLY ALTERNATE THE DOSING OF THE RESPECTIVE FIELDS.
5. PROVIDE AND STORE ON-SITE FOR EMERGENCY USE ONE PEARSON BARNEYS MODEL 6000 SELF PRIMING, ENGINE DRIVEN, CENTRIFUGAL PUMP. PUMP SHALL HAVE A MINIMUM CAPACITY OF 500 GPM @ 150' TPD WITH A MAXIMUM SUCTION LIFT OF 20'. IN ADDITION TO THE STANDARD EQUIPMENT, PROVIDE 25' OF SUCTION HOSE AND 15' OF DISCHARGE HOSE. THE PUMP SHALL BE INSTALLED IN A LOCKED STORAGE BUILDING ON THE SITE. THE EMERGENCY PUMP CONNECTION PROVIDED.
6. FORCE MAINS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 11.04.01 OF THE VIRGINIA SEWAGE HANDLING AND DISPOSAL REGULATIONS AS FOLLOWS:
ALL FORCE MAINS SHALL BE DESIGNED TO SUPPLY UNIFORM SUPPORT ALONG THEIR LENGTH.

NOTE: THE HORIZONTAL SEPARATION BETWEEN SEWAGE FORCE MAINS AND POTABLE WATER LINES SHALL BE 10 FEET. THE HORIZONTAL SEPARATION BETWEEN DRAINFIELDS AND WATER LINES SHALL BE 50'.

NOTE: ALL PUMPS SHALL BE INSTALLED WITH A SLIDE RAIL LIFT-OUT ASSEMBLY BY THE MANUFACTURER WHICH WILL ENABLE THE OPERATOR TO REMOVE THE PUMP WITHOUT ENTERING THE STATION.

PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=10'

2" FLUSHING VALVE DETAIL



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