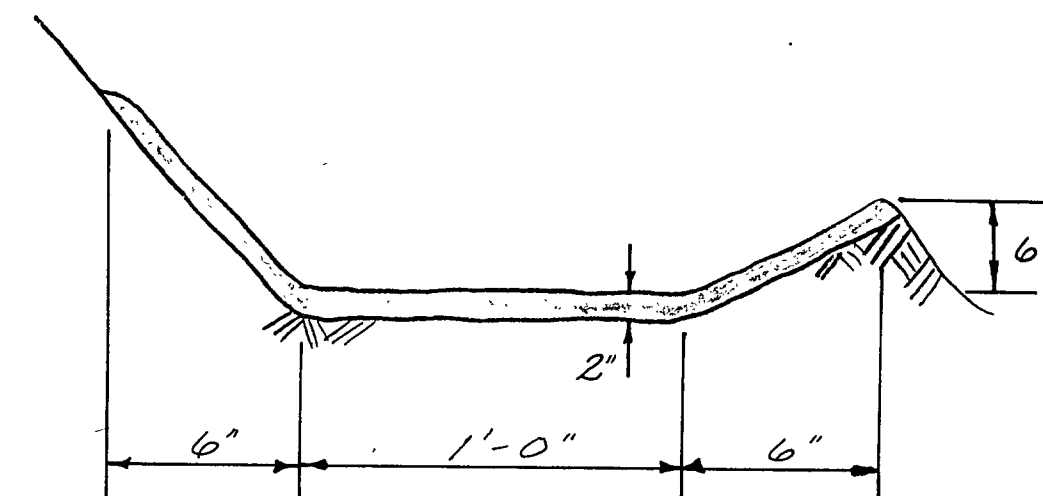
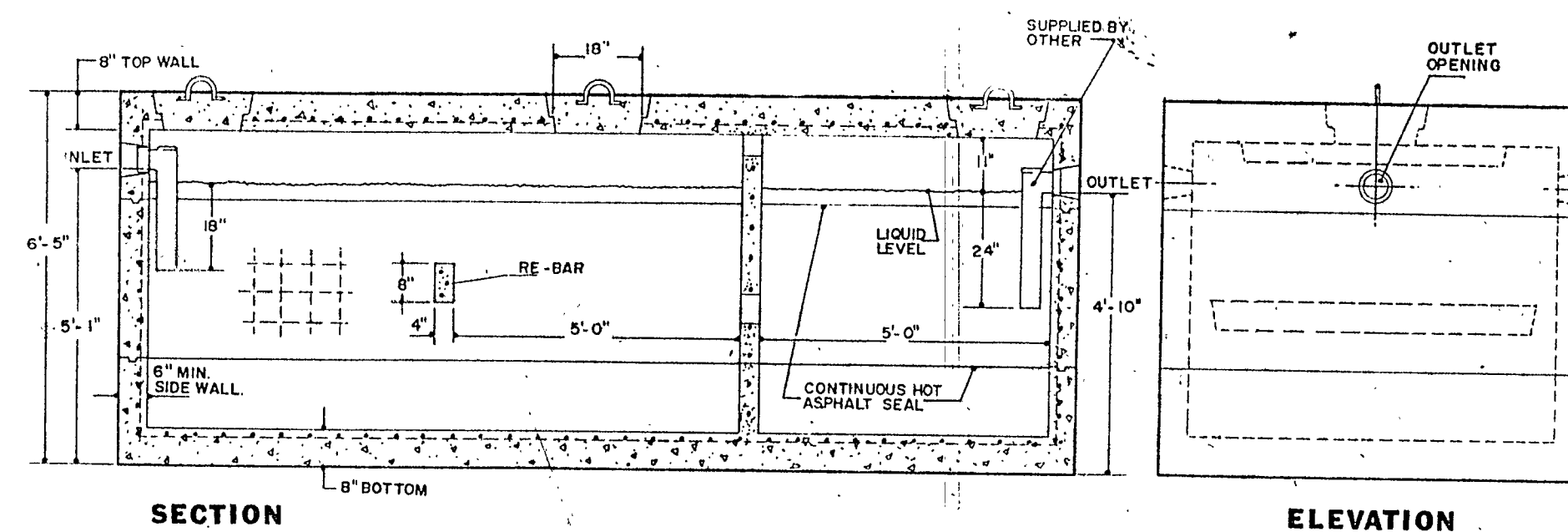


MANHOLE
NOT TO SCALE

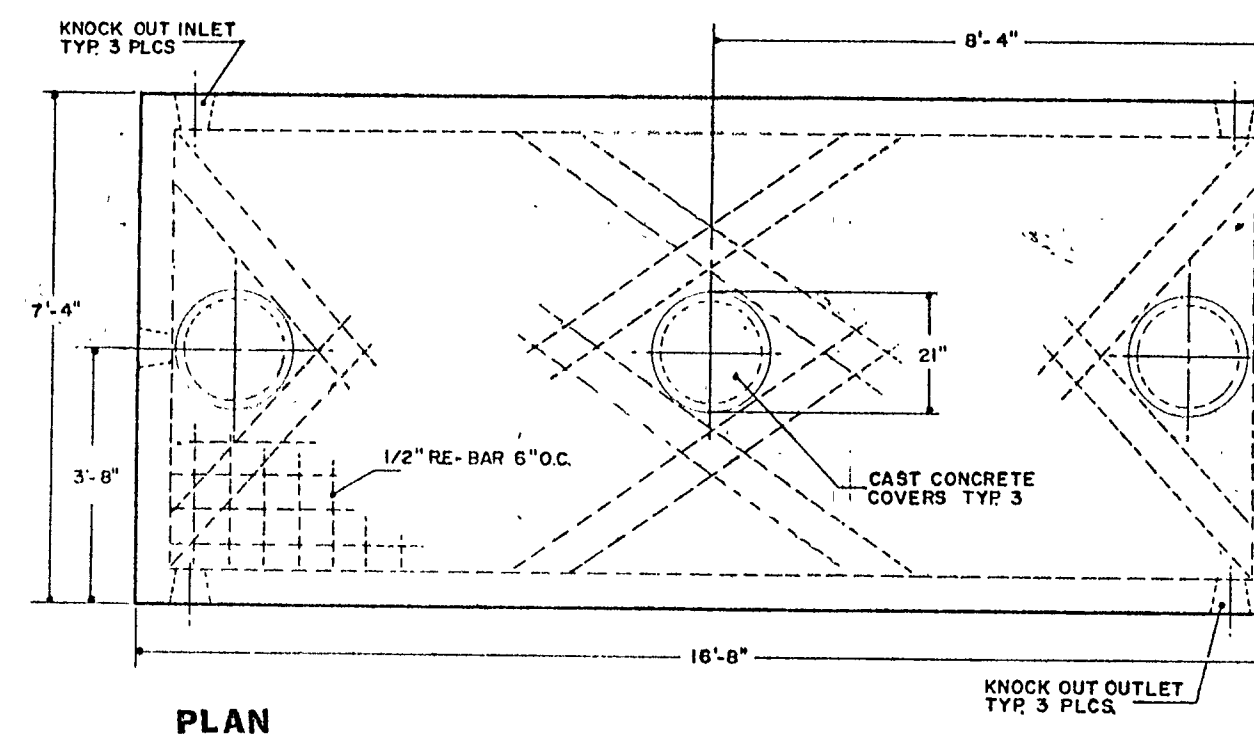


PAVED SWALE
NOT TO SCALE



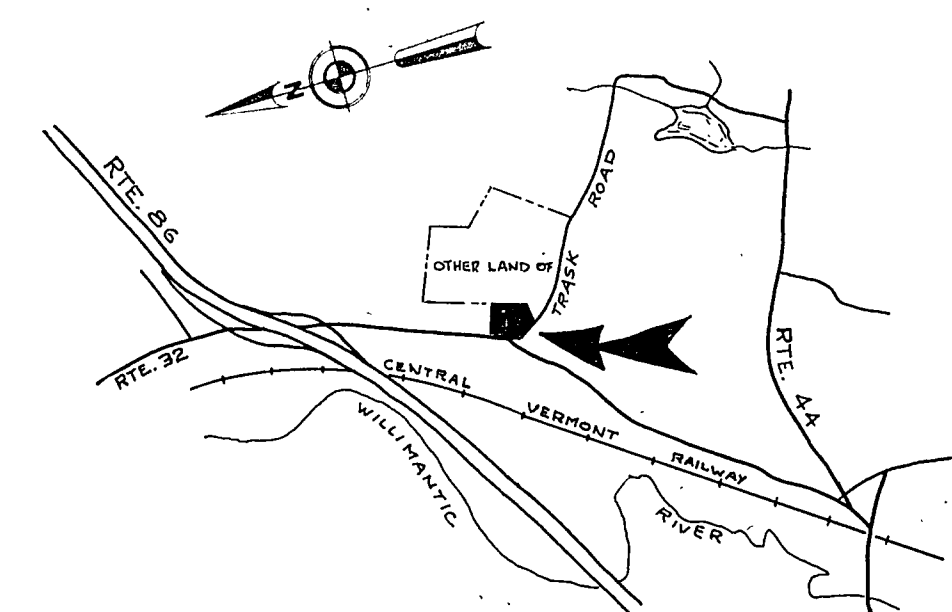
SECTION

ELEVATION

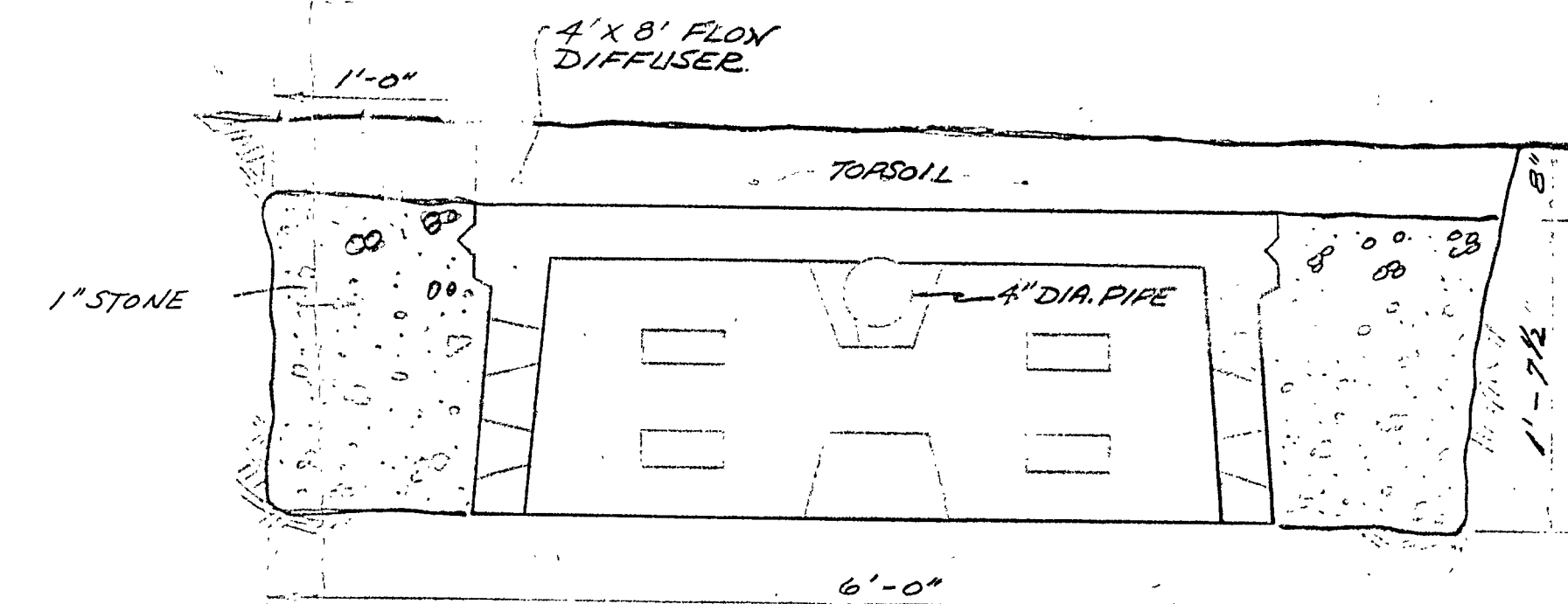


PLAN

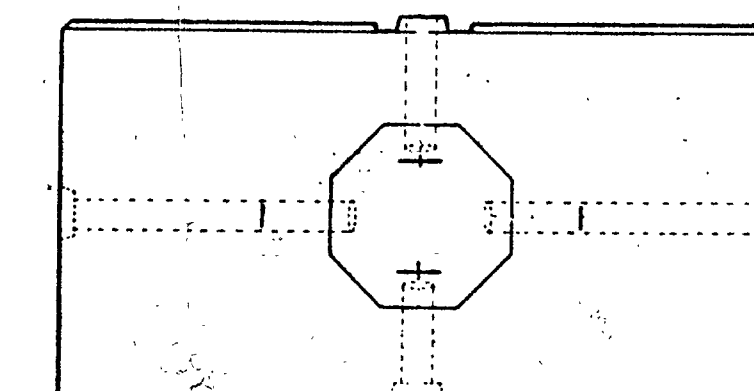
PRECAST CONCRETE SEPTIC TANK
NOT TO SCALE



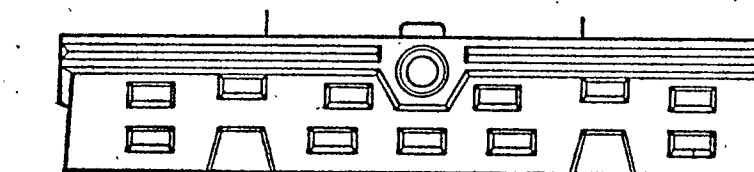
LOCATION MAP



ELEVATION



PLAN



SECTION

FLOW DIFFUSER
NOT TO SCALE

BASIS OF SANITARY DESIGN

HALL SIZE:	60' x 70' = 4200 SQ. FT.
HALL CAPACITY:	4200/15 = 280 PERSONS
WASTE WATER FLOW PER DAY:	
HALL	280 x 10 GAL/DAY = 2800 GAL.
FIRE RESPONSE	10 PEOPLE x 2 GAL/PERSON = 20 GAL
DAILY ATTENDANT	20 GAL x 2 FIRES/DAY = 40 GAL
	1 PERSON x 15 GAL/PERSON = 15 GAL.
TOTAL DAILY FLOW	2855 GAL
TOTAL FLOW PER WEEK BASED ON 2 CONSECUTIVE USES OF HALL	
2 x 2800	= 5600 GAL.
7 x 40	= 280 GAL.
7 x 15	= 70 GAL.
TOTAL	= 5985 GAL.

PERCOLATION RATE:	4 MIN/IN.
DESIGN RATE:	6-10 MIN/IN.
APPLICATION RATE:	1.6 GAL/S.F./DAY
STORAGE AVAILABLE PER CHAMBER:	4' x 8' x 1' = 32 C.F. x 7.47 = 239 GAL.
CHAMBERS REQUIRED:	5985/239 = 25 CHAMBERS
LEACHING AREA PER CHAMBER:	4' x 8' = 32 S.F. x 1.6 = 51 GAL/CHAMBER/DAY
CHAMBERS PROVIDED:	5985/51 x 7 = 16.7 CHAMBERS
	17 CHAMBERS

LEGEND

EXISTING	PROPOSED
Contours	411
Spot Elevations	432.0
Property Line	
Leaching Trench	
Solid Pipe	
Well	
Deep Test Hole	
Percolation Test	
Edge of Pavement	

NOTES

THE SEPTIC TANK SHALL BE A 3000 GALLON "ROTONDO" SEPTIC TANK OR EQUAL. IT MUST BE PROPERLY BAFFLED AT THE INLET AND OUTLET AND SHALL BE WATERTIGHT, JOINTS SEALED WITH ASPHALT CEMENT OR EQUAL. CONCRETE SHALL BE 4000 PST, 28 DAYS, REINFORCED WITH 6x6 - 10x10 GAUGE WIRE MESH.

PIPE BETWEEN THE BUILDING AND THE SEPTIC TANK AND GREASE TRAP TO BE 4" EXTRA HEAVY CAST IRON (CONFORMING TO ASTM A74). THE SLOPE OF THIS PIPE MUST BE A MINIMUM OF 0.25 INCHES PER FOOT.

PIPE UNDER THE PARKING AREA TO BE 4" EXTRA HEAVY CAST IRON WITH TIGHT JOINTS.

MANHOLES OF THE SEPTIC TANK AND GREASE TRAP MUST EXTEND TO GRADE.

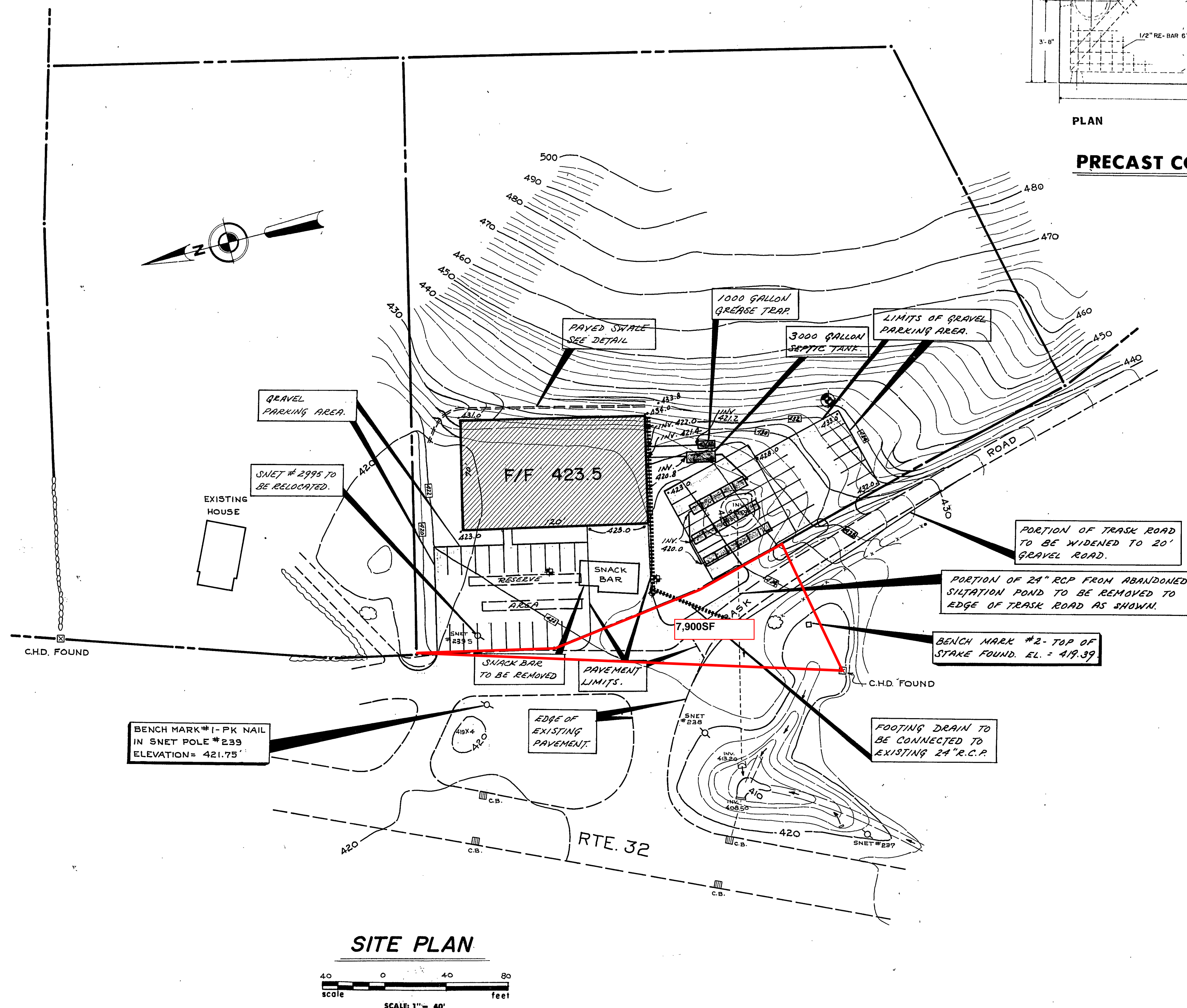
BOTTOM OF ALL FLOW DIFFUSERS SHALL BE LEVEL.

ENDS OF FLOW DIFFUSERS SHALL BE CONNECTED AS SHOWN.

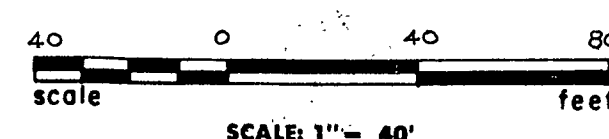
INLETS AND OUTLETS OF THE SEPTIC TANK, GREASE TRAP AND FLOW DIFFUSERS SHALL BE MORTARED ONCE THE SEWER PIPES ARE INSTALLED.

WALLS OF THE FLOW DIFFUSERS SHALL BE SURROUNDED BY 12 INCHES OF SCREENED GRAVEL OR BROKEN STONE.

CONTRACTOR SHALL VERIFY AND CHECK BENCH MARKS AS SHOWN ON THIS PLAN PRIOR TO CONSTRUCTION OF THE PROPOSED SYSTEM.



SITE PLAN



**WILLINGTON FIRE
DEPARTMENT NO. 1, INC.
W. WILLINGTON, CONN.**

LENARD & DILAJ ENGINEERING, INC.
Storrs, Connecticut 06268

Job Number: 80-10
Scale: 1" = 40'
Date: MARCH 1980

Drawn By: EJO
Checked By: MD

Drawing No.
80-10