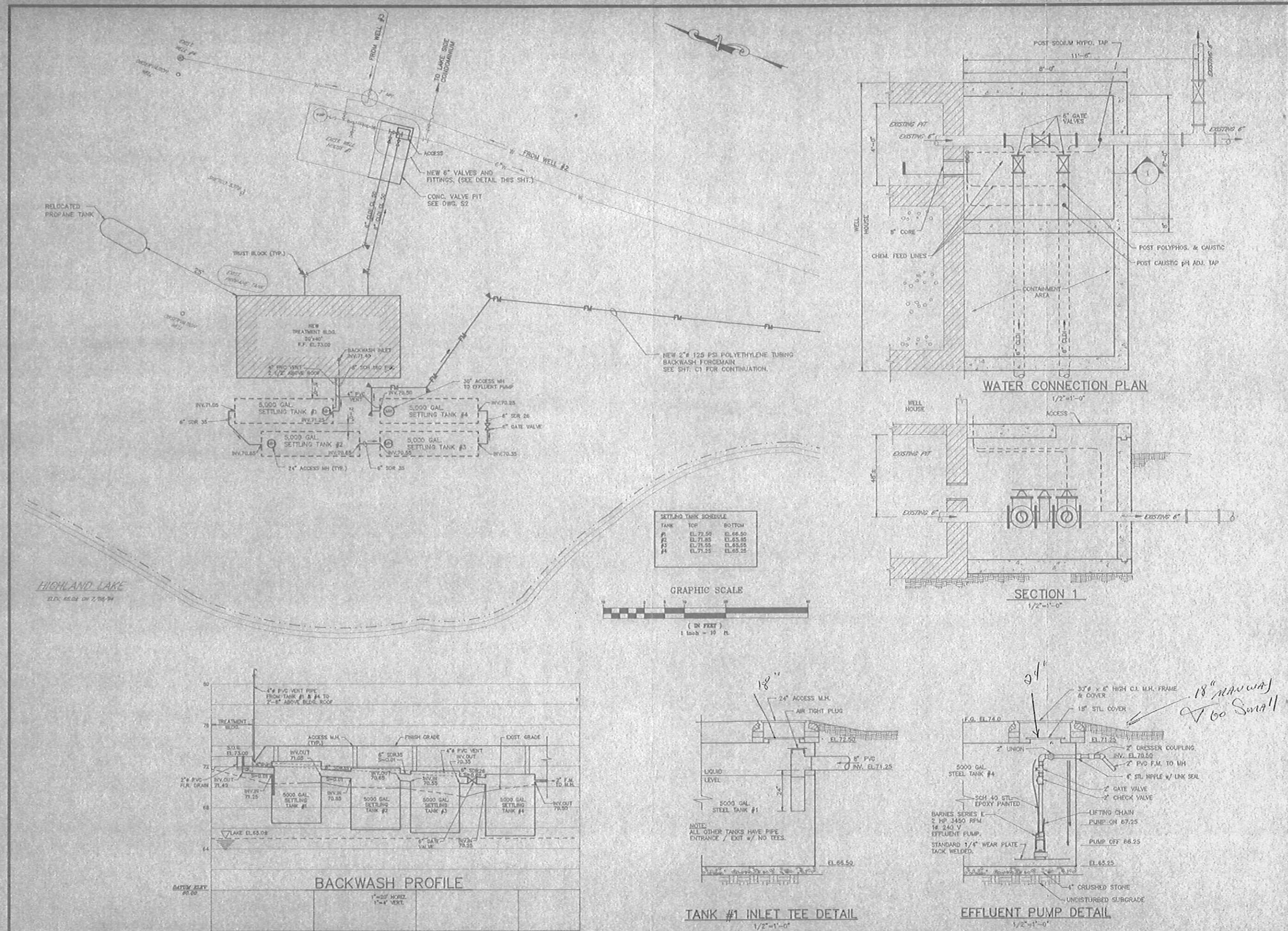


SETTLING TANK SCHEDULE

TANK	TOP	BOTTOM
#1	EL.72.50	EL.66.50
#2	EL.71.85	EL.65.85
#3	EL.71.55	EL.65.55
#4	EL.71.25	EL.65.25

TOWN OF LEDYARD
WATER TREATMENT FACILITIES
ROUTE 117
LEDYARD, CONNECTICUT

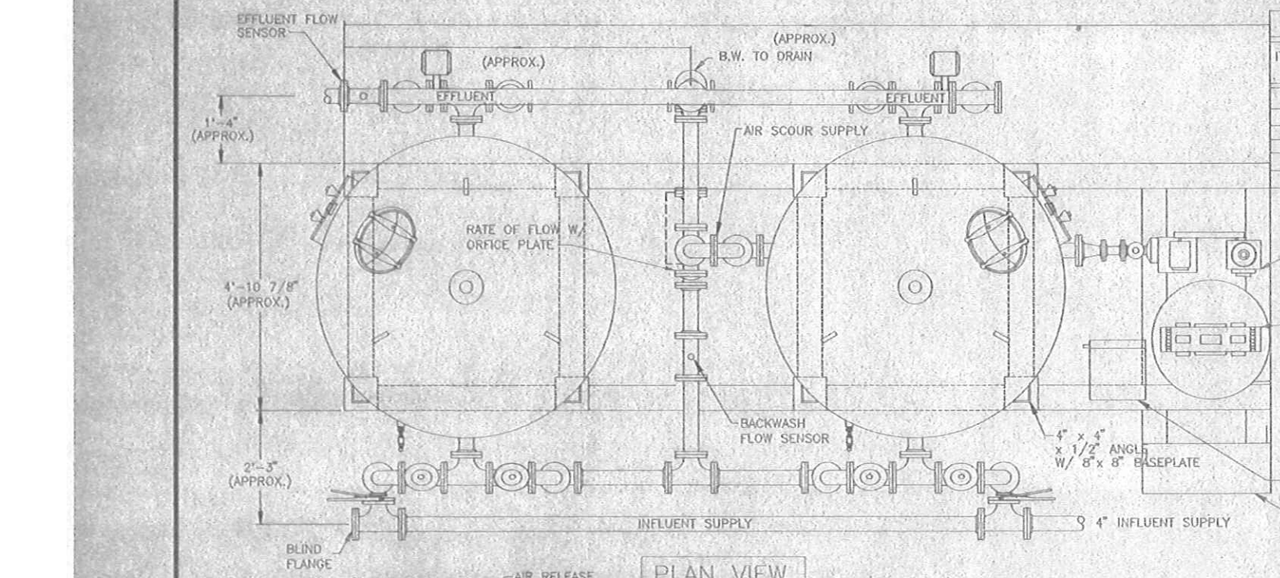
THE H.L. TURNER GROUP Inc.
6 LOUDON ROAD, CONCORD NH 03301
ARCHITECTS • CONSTRUCTION MANAGERS
ENGINEERS • ENVIRONMENTAL CONSULTANTS
CONCORD NH HARRISON ME MONTPELIER VT

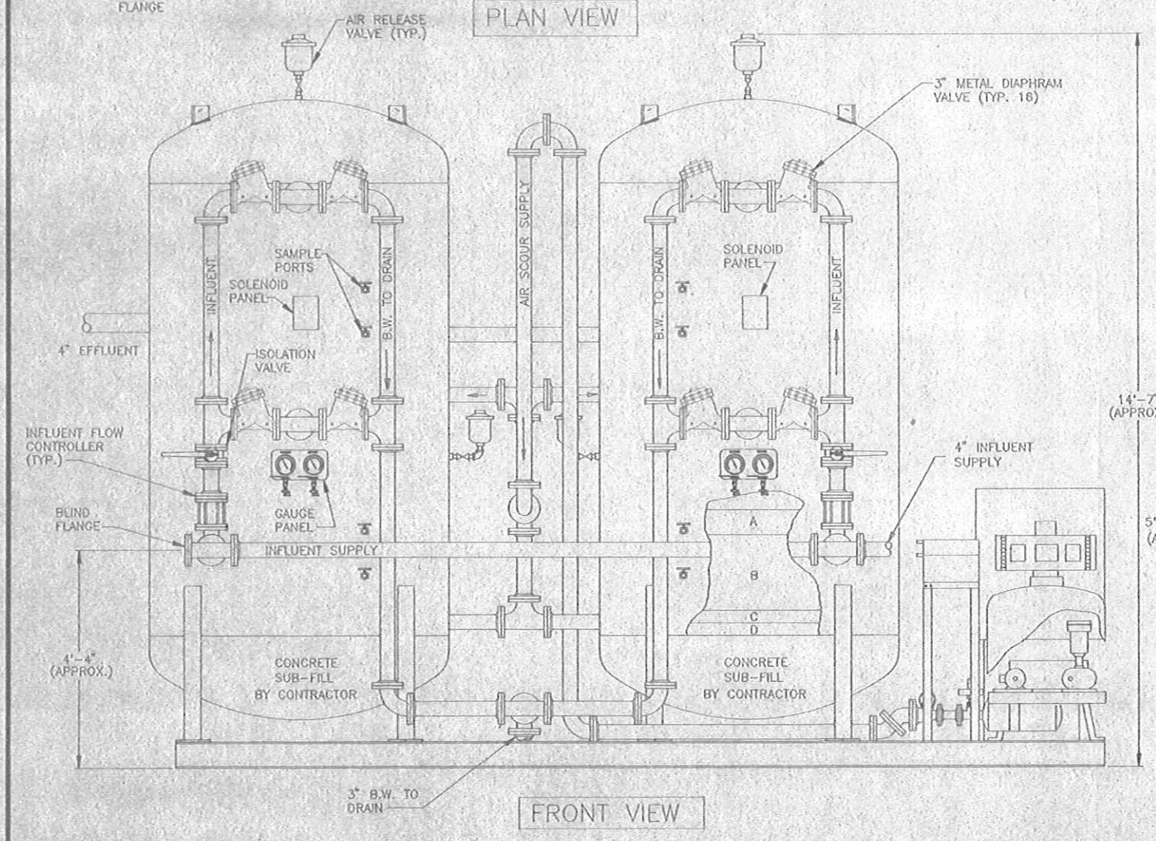
TURNER GROUP

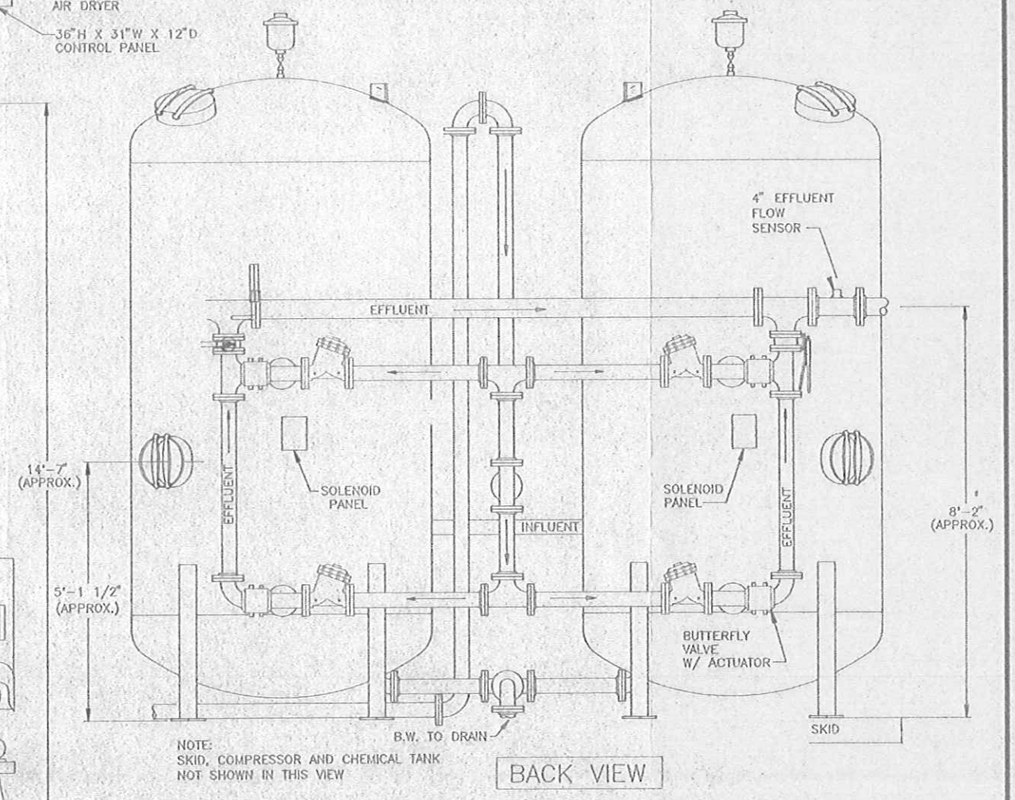
Project 1503-01
Scale 1"=10'
Drawn by DMT
Dwn. by AL
Chkd. by DMT
Appvd. by HT
Date 9/2/94

YARD PIPING PLAN & DETAILS

Drawing No.
C3
1503 \ C3







AIR SCOUR BLOWER PACKAGE

VERT. 60 GAL. COMPRESSOR W/ DUAL HEADS

REFRIGERATED AIR DRYER

36"H X 31"W X 12"D CONTROL PANEL

MEDIA SCHEDULE

ITEM	DESCRIPTION	SIZE	DEPTH	UNIFORMITY COEFFICIENT	QTY/CELL (APPROX.)	QTY/ TOTAL
A	ANTHRACITE	.85-.95mm	6"	<1.7	14 CU/FT	56 CU/FT
B	MANGANESE GREENSAND	.30-.35mm	18"	<1.6	42 CU/FT	168 CU/FT
C	TORPEDO SAND	.80-2.0mm	3"	------	7 CU/FT	28 CU/FT
D	GRAVEL	1/8x1/4"	3"	------	7 CU/FT	28 CU/FT
	CONCRETE SUBFILL *	1:2:4	---	------	------	48 CU/FT
	FREEBOARD **	82%	18"	------	------	------

* IN BOTTOM HEAD ONLY
** TOP OF MEDIA TO OVERDRAIN

NOTES

1. DRILLING TO CONFORM TO ANSI B16-5 CLASS 150 WITH BOLT HOLES STRADLING CENTERLINES UNLESS NOTED OTHERWISE.
2. CONSTRUCTION TO BE IN ACCORDANCE WITH ASME UNFIRED PRESSURE VESSEL CODE SECTION VIII DIVISION 1 LATEST ADDENDUM.
3. DIMENSIONS LOCATING OPENINGS MAY VARY +/- 3/8.
4. DESIGN PRESSURE = 150 PSI
   TEST PRESSURE = 225 PSI
5. DESIGN TEMPERATURE = 100° F
6. WEIGHTS: OPERATING WEIGHT = 52,224 LBS/SKID
   MEDIA WEIGHT = 23,244 LBS/SKID
   SHIPPING WEIGHT = 16,196 LBS/SKID
7. CONTRACTOR WILL BE REQUIRED TO MAKE UP LOOSE ENDS IN PIPING WHEN IT IS NECESSARY TO ENSURE A SATISFACTORY FIT.
8. INTERIOR COATING: SANDBLAST TO NEAR WHITE (SSPC-SP10), THEN COATED WITH PLASITE 9133 (PHENOLIC EPOXY) TO 10 MILS DFT. THEN OVEN CURED.
9. EXTERIOR COATING: SANDBLAST TO NEAR WHITE (SSPC-SP10), THEN METALIZE WITH 3 MILS. MIN. OF PURE ZINC AND PRIME WITH AMERLOCK 400 (HIGH SOLIDS EPOXY) TO 5 MILS. DFT. THEN FINISH WITH AMERSHIELD (ALIPHATIC POLYURETHANE) TO 5 MILS. DFT.(COLOR TO BE SELECTED BY ENGINEER)
10. ALL PIPING AND FITTINGS SHOWN AS DOTTED LINES TO BE SUPPLIED BY THE CONTRACTOR. ALL PIPING 3" AND LARGER SHALL BE DUCTILE IRON.

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CONCORD NH HARRISON NY MONTPELIER VT

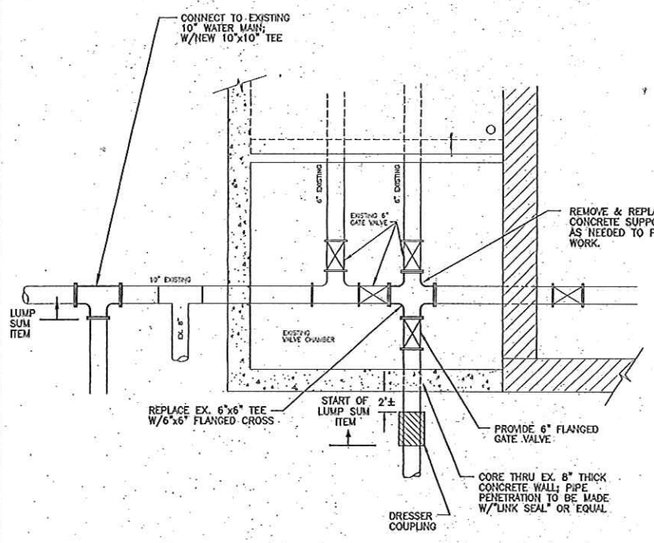
TURNER GROUP

Refinite
WATER CONDITIONING CO.

Project 1503-01
Scale 3/4"=1'-0"
Drawn by DMT
Des. by AL
Check by DMT
Approv. by HT
Date 9/2/94

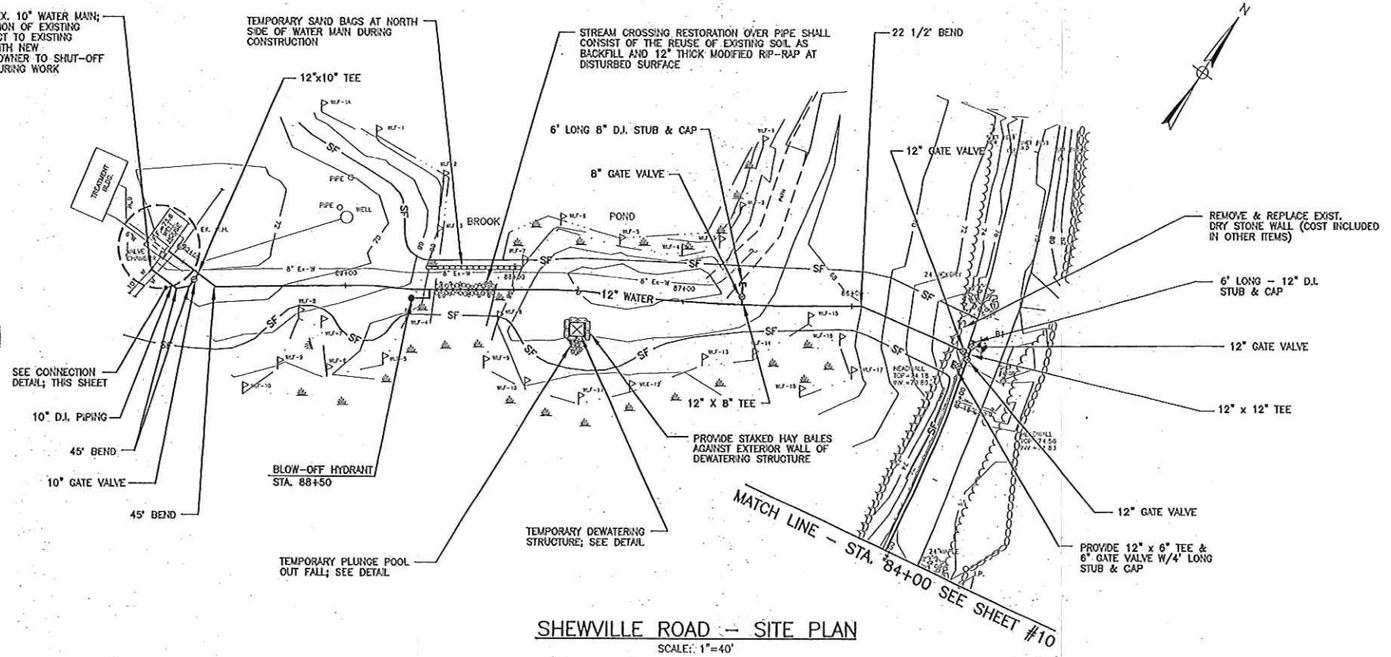
72" DIA. VERT. FILTER & PIPING LAYOUT

Drawing No.
P2
1503\P2



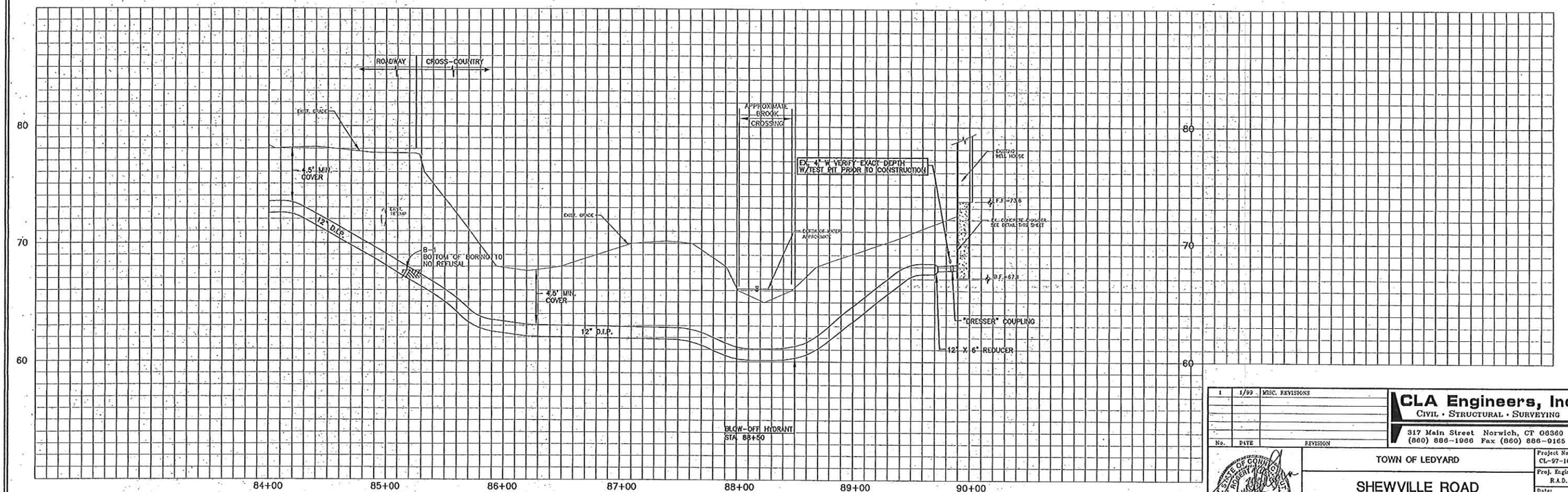
WATER CONNECTION DETAIL

SCALE: 1/2" 1'-0"



SHEWVILLE ROAD - SITE PLAN

SCALE: 1"=40'



PROFILE

HORIZ. 1"=40'
VERT. 1"=4'

No.	DATE	REVISION
1	1/99	MISC. REVISIONS

CLA Engineers, Inc.
CIVIL • STRUCTURAL • SURVEYING
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-0165

STATE OF CONNECTICUT ROBERT A. DAIGLE No. 10769 LICENSED PROFESSIONAL ENGINEER

TOWN OF LEDYARD

SHEWVILLE ROAD WATER MAIN EXTENSION

PLAN & PROFILE

Project No. CL-97-1642
Proj. Engineer R.A.D.
Date: MARCH 1997
Sheet No. 10

CLA

#L0123

LEGEND

- EXIST. WELL
- EXIST. OVERHEAD ELECTRIC LINE
- EXIST. 2' CONTOUR
- EXIST. 10' CONTOUR
- EXIST. EDGE OF GRAVEL DRIVE
- EDGE OF WATER
- PROPOSED GRADE
- PROPOSED SPOT ELEVATION

VALVE CHAMBER ACCESS

VALVE CHAMBER
S.G.C. EL. MATCH EXIST. WELL HOUSE
SEE DETAILS ON SHT. D3 & D2.
BLDG. STRUCTURE BY TOWN OF LEDYARD

EXIST. GRAVEL ACCESS

EXIST. WELL #4

OBSERVATION WELL

EXIST. WELL #5

OBSERVATION WELL

NEW 1/2" COPPER GAS LINE

RELOCATED PROPANE TANK & LINE BY THE TOWN OF LEDYARD & UTILITY CO.

CONC. PAD

CONC. APRON

FUTURE PROPANE TANK

NEW TREATMENT BLDG. 30'x40' F.F. EL.73.00

GRAVEL ACCESS

HAYBALES

SETTLING TANK #1

SETTLING TANK #2

SETTLING TANK #3

SETTLING TANK #4

TEMPORARY EROSION CONTROL SILTATION FENCE

UNDEVELOPED WETLANDS

TEST HOLES

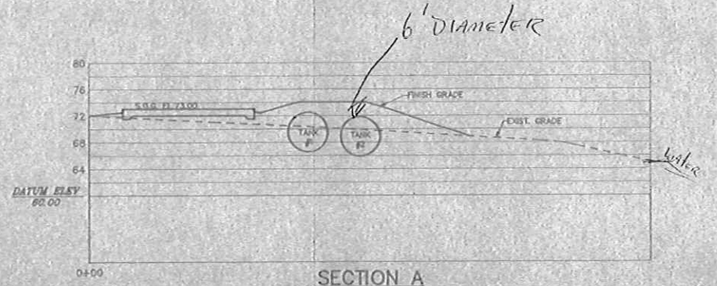
GRAVEL ACCESS RD.

HIGHLAND LAKE

ELEV. 85.82 ON 7/08/94

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.



SECTION A
1"=10' H & V.

TOWN OF LEDYARD WATER TREATMENT FACILITIES

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CONCORD, NH | HARRISON, NY | MONTPELIER, VT

TURNER GROUP

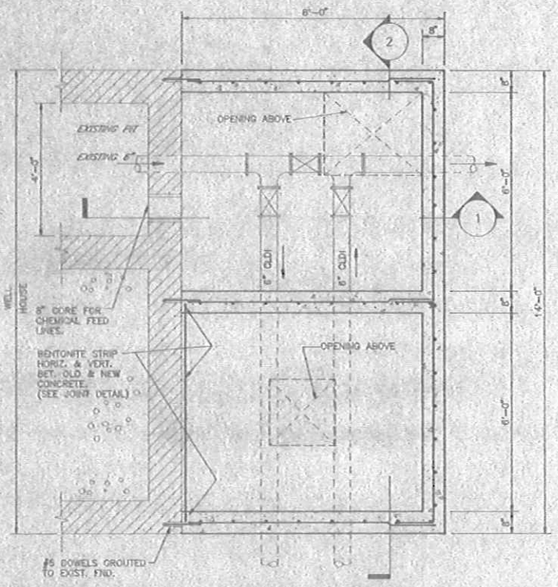
Project 1503-01
Date 1"=10'
Des. by DMT
Drn. by AL
Chkd. by DMT
Appd. by HT
Date 9/12/94

TREATMENT BLDG. SITE PLAN

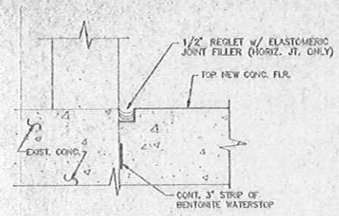
Drawing No.

C2

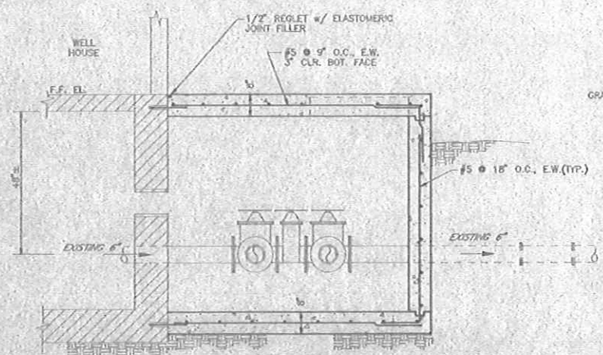
1503\C2



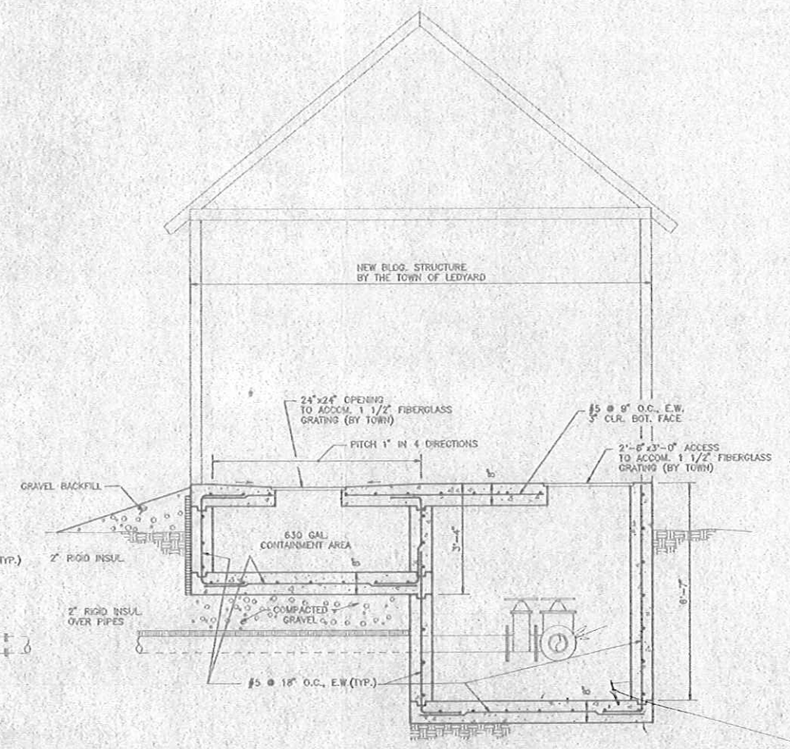
VALVE PIT PLAN
1/2"=1'-0"



JOINT DETAIL
SCALE: 1 1/2"=1'-0"



SECTION 1
1/2"=1'-0"



SECTION 2
1/2"=1'-0"

Why is Fiber glass grating supplied by Town — Where do we get it? Cost? Will it handle load of 800# Barrels?

No Sump Provided & or No way to drain water to other Sump

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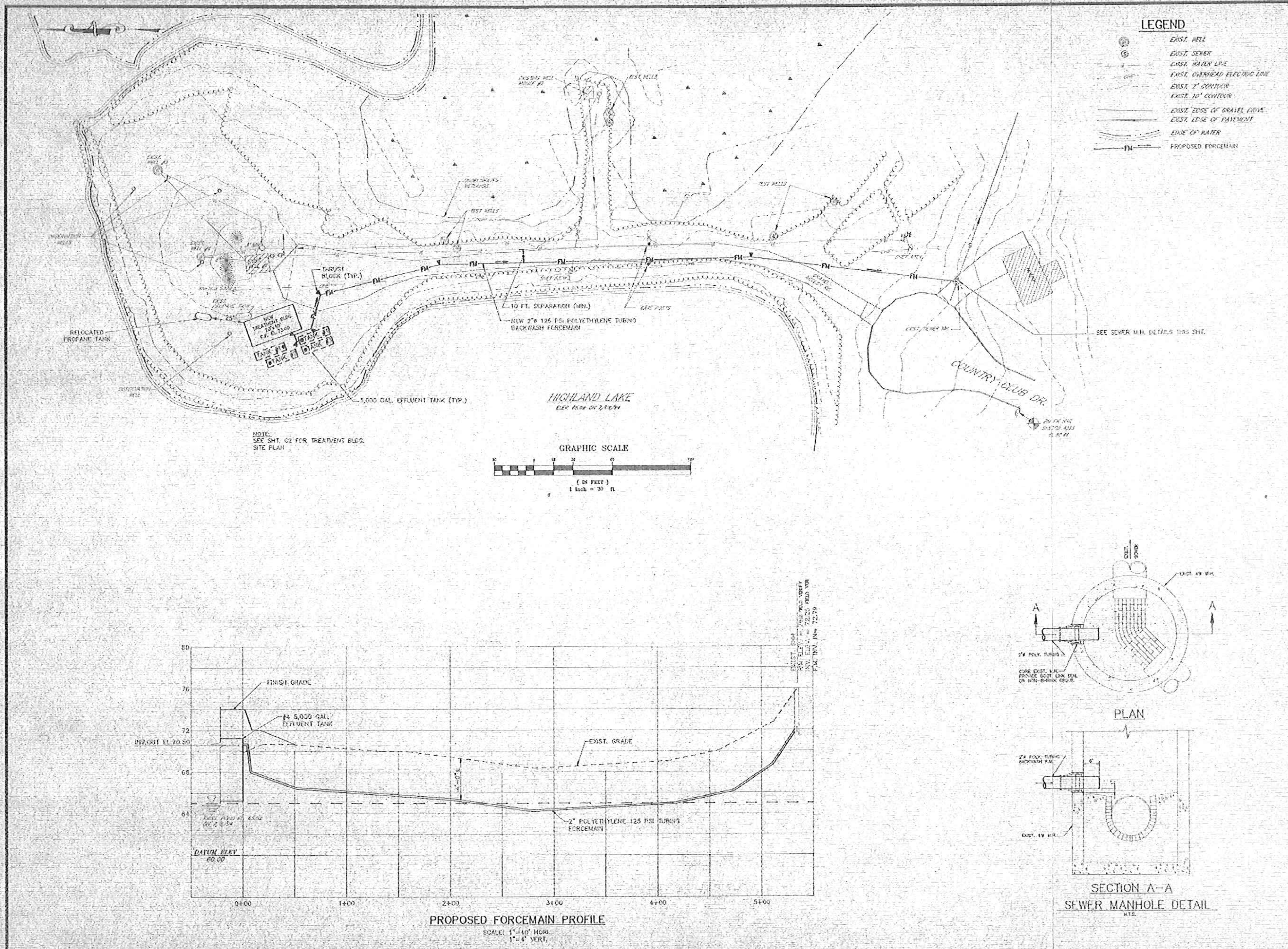
TURNER GROUP

Proj. No. 1503-01
Scale AS SHOWN
Dwn. By DMT
Dsn. By AL
Chkd. By DMT
Appd. By HT
Date 9/1/94

Rev. Date Description

VALVE PIT PLAN & DETAILS

Drawing No.
S2
1503\S2



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TURNER GROUP

Project No. 1503-01
Scale AS SHOWN
Drawn By DMT
Des. By AL
Check By DMT
Appd. By HT
Date 8/12/94

SITE PLAN & FORCEMAIN PROFILE

Drawing No.
C1
1503\C1