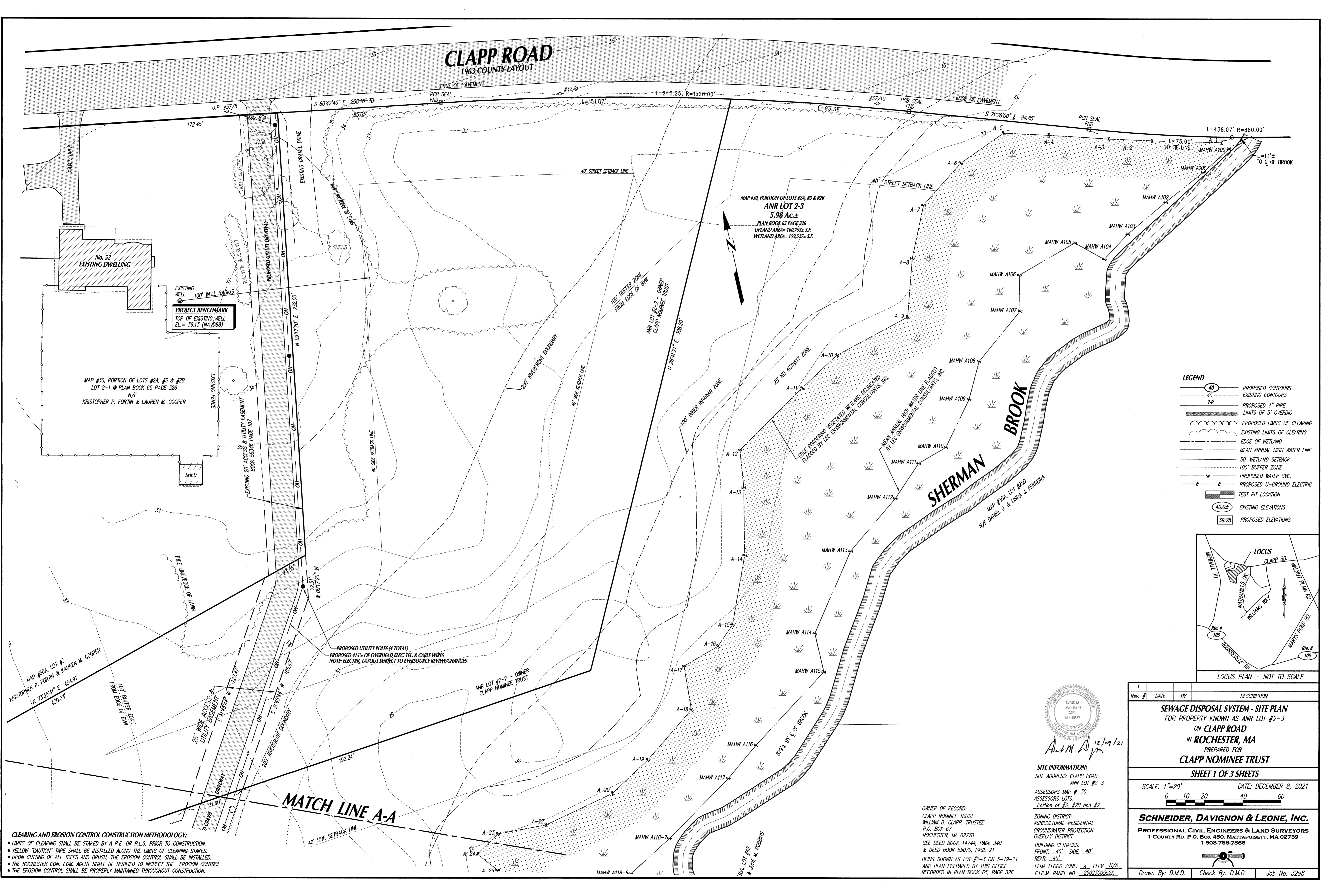


CLAPP ROAD

1963 COUNTY LAYOUT



PROJECT BENCHMARK
TOP OF EXISTING WELL
EL. = 39.13 (NAVD88)

MAP #30, PORTION OF LOTS #2A, #3 & #2B
ANR LOT 2-3
5.98 Ac.±
PLAN BOOK 65 PAGE 326
UPLAND AREA= 100,793± S.F.
WETLAND AREA= 159,527± S.F.

MAP #30, PORTION OF LOTS #2A, #3 & #2B
LOT 2-1 @ PLAN BOOK 65 PAGE 326
N/F
KRISTOPHER P. FORTIN & LAUREN M. COOPER

MAP #30A, LOT #3
KRISTOPHER P. FORTIN & LAUREN M. COOPER
N 73°35'41" E 454.91'
430.33'

PROPOSED UTILITY POLES (4 TOTAL)
PROPOSED 415% OF OVERHEAD BLEC. TEL. & CABLE WIRES
NOTE: ELECTRIC LAYOUT SUBJECT TO EVERSOURCE REVIEW/CHANGES.

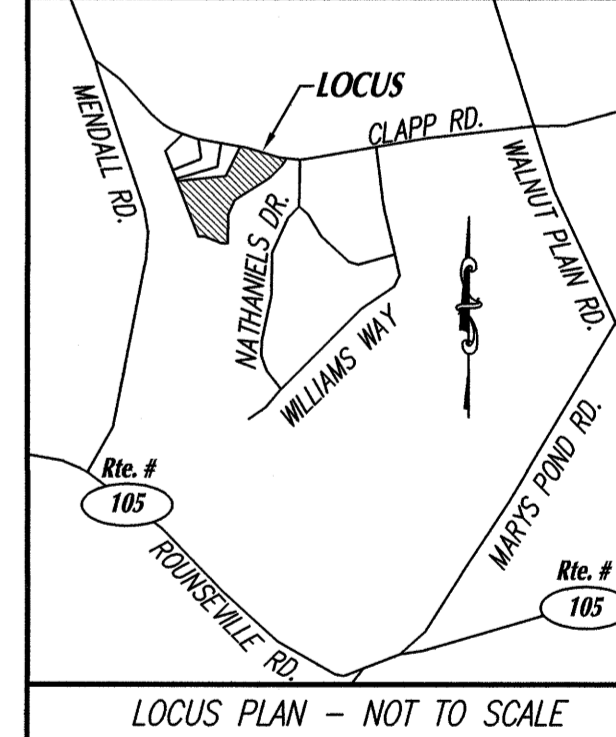
ANR LOT #2-2 - OWNER
CLAPP NOMINEE TRUST

OWNER OF RECORD:
CLAPP NOMINEE TRUST
WILLIAM D. CLAPP, TRUSTEE
P.O. BOX 67
ROCHESTER, MA 02770
SEE DEED BOOK 14744, PAGE 340
& DEED BOOK 55070, PAGE 21
BEING SHOWN AS LOT #2-3 ON 5-19-21
ANR PLAN PREPARED BY THIS OFFICE
RECORDED IN PLAN BOOK 65, PAGE 326

ZONING DISTRICT:
AGRICULTURAL-RESIDENTIAL
GROUNDWATER PROTECTION
OVERLAY DISTRICT
BUILDING SETBACKS:
FRONT: 40' SIDE: 40'
REAR: 40'
FEMA FLOOD ZONE: X ELEV N/A
F.I.R.M. PANEL NO.: 25023C0552K

LEGEND

(40)	PROPOSED CONTOURS
(40)	EXISTING CONTOURS
14'	PROPOSED 4" PIPE LIMITS OF 5' OVERDIG
(---)	PROPOSED LIMITS OF CLEARING
(---)	EXISTING LIMITS OF CLEARING
(---)	EDGE OF WETLAND
(---)	MEAN ANNUAL HIGH WATER LINE
(---)	50' WETLAND SETBACK
(---)	100' BUFFER ZONE
(---)	PROPOSED WATER SVC.
(---)	PROPOSED U-GROUND ELECTRIC
(---)	TEST PIT LOCATION
(40.0±)	EXISTING ELEVATIONS
(39.25)	PROPOSED ELEVATIONS



Rev. #	DATE	BY	DESCRIPTION
1			

SEWAGE DISPOSAL SYSTEM - SITE PLAN
FOR PROPERTY KNOWN AS ANR LOT #2-3
ON **CLAPP ROAD**
IN **ROCHESTER, MA**
PREPARED FOR
CLAPP NOMINEE TRUST

SHEET 1 OF 3 SHEETS

SCALE: 1"=20' DATE: DECEMBER 8, 2021

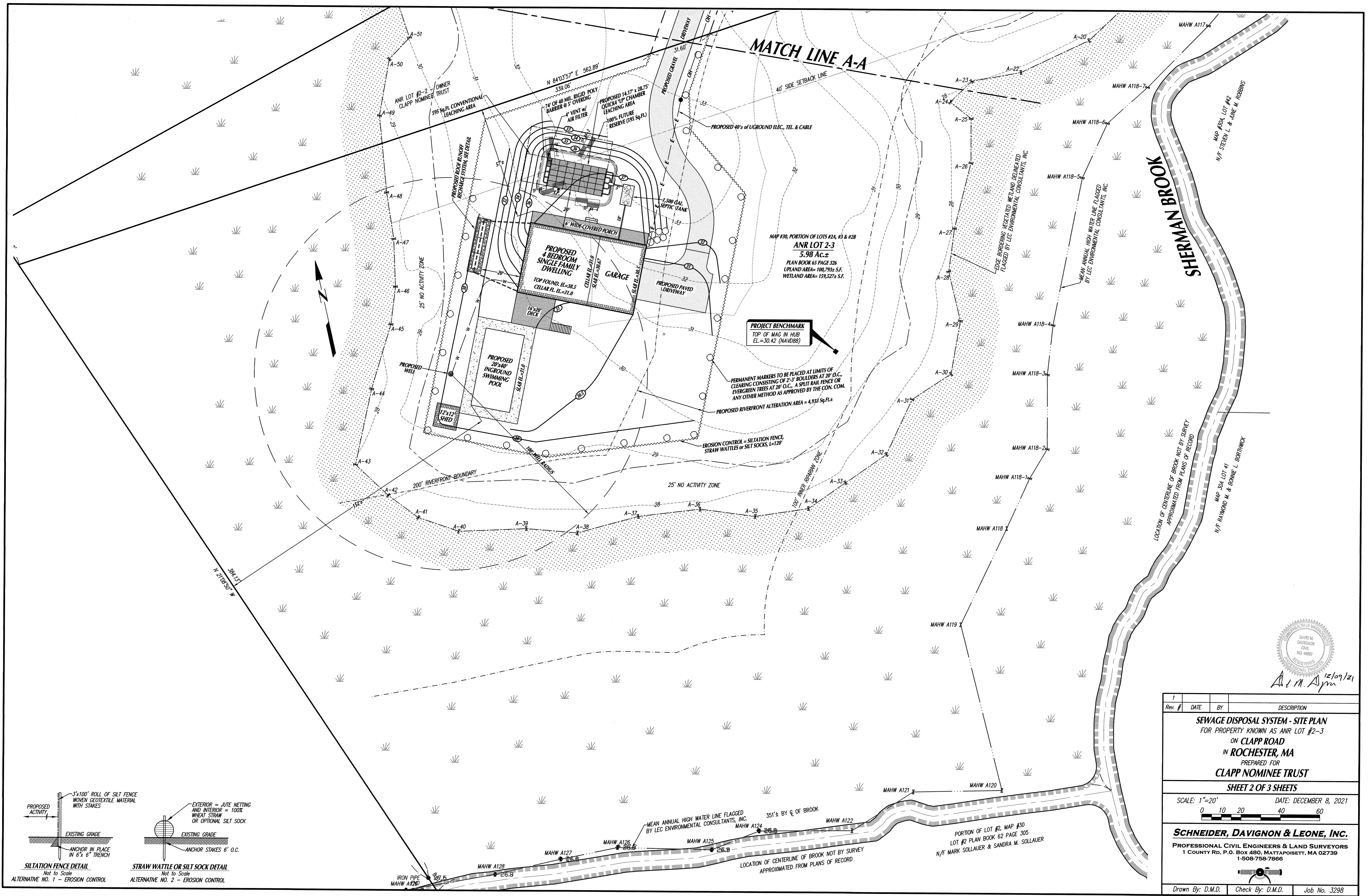
ASSESSORS MAP # 30
ASSESSORS LOTS:
Portion of #3, #2B and #2

SCHNEIDER, DAVIGNON & LEONE, INC.
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
1 COUNTY RD, P.O. BOX 480, MATTAPANSETT, MA 02739
1-508-758-7866

Drawn By: D.M.D. Check By: D.M.D. Job No. 3298

CLEARING AND EROSION CONTROL CONSTRUCTION METHODOLOGY:

- LIMITS OF CLEARING SHALL BE STAKED BY A P.E. OR P.L.S. PRIOR TO CONSTRUCTION.
- YELLOW "CAUTION" TAPE SHALL BE INSTALLED ALONG THE LIMITS OF CLEARING STAKES.
- UPON CUTTING OF ALL TREES AND BRUSH, THE EROSION CONTROL SHALL BE INSTALLED.
- THE ROCHESTER CON. COM. AGENT SHALL BE NOTIFIED TO INSPECT THE EROSION CONTROL.
- THE EROSION CONTROL SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION.



MATCH LINE A-A

MAP #30, PORTION OF LOTS #24, #3 & #28
ANR LOT 2-3
 5.98 Ac.±
 PLAN BOOK 65 PAGE 326
 UPLAND AREA= 100,793± S.F.
 WETLAND AREA= 159,527± S.F.

PROJECT BENCHMARK
 TOP OF MAG IN HUB
 EL.=30.42 (NAVD88)

PERMANENT MARKERS TO BE PLACED AT LIMITS OF CLEARING CONSISTING OF 2-3' BOULDERS AT 20' O.C., EVERGREEN TREES AT 20' O.C., A SPLIT RAIL FENCE OR ANY OTHER METHOD AS APPROVED BY THE CON. COM.

PROPOSED RIVERFRONT ALTERATION AREA = 4,933 Sq.Ft.±

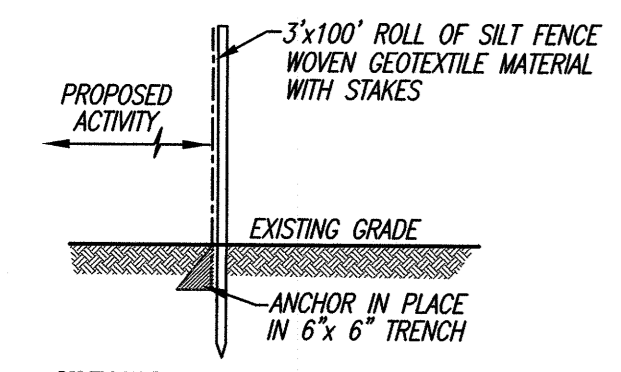
25' NO ACTIVITY ZONE

SHERMAN BROOK

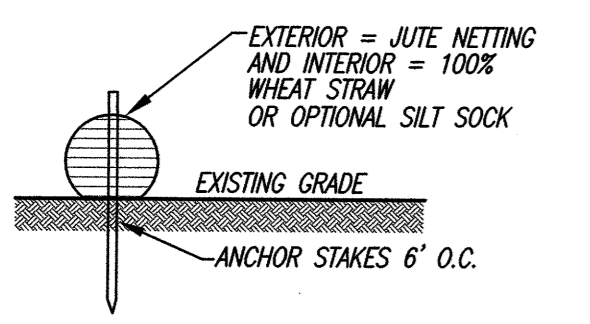
LOCATION OF CENTERLINE OF BROOK NOT BY SURVEY APPROXIMATED FROM PLANS OF RECORD

MAP #30A LOT #2
 N/F STEVEN L. & JUNE M. ROBBINS

MAP #30A LOT #1
 N/F RAMOND M. & BONNIE L. BORTHWICK



SILTATION FENCE DETAIL
 Not to Scale
 ALTERNATIVE NO. 1 - EROSION CONTROL



STRAW WATTLE OR SILT SOCK DETAIL
 Not to Scale
 ALTERNATIVE NO. 2 - EROSION CONTROL

DAVID M. DAVIGNON
 CIVIL ENGINEER
 REG. NO. 48857
 PROFESSIONAL ENGINEER
 12/09/21
D.M. Davignon

Rev. #	DATE	BY	DESCRIPTION
1			

SEWAGE DISPOSAL SYSTEM - SITE PLAN
 FOR PROPERTY KNOWN AS ANR LOT #2-3
 ON CLAPP ROAD
 IN ROCHESTER, MA
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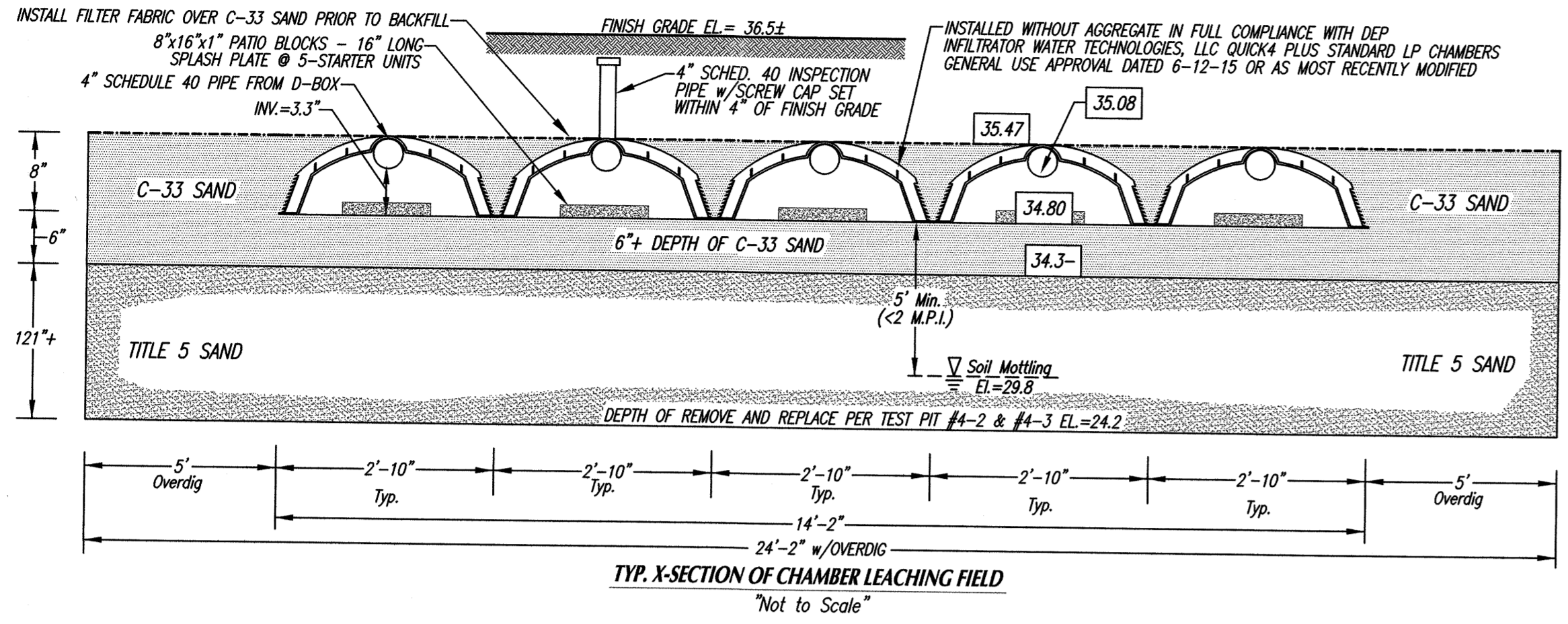
SHEET 2 OF 3 SHEETS

SCALE: 1"=20' DATE: DECEMBER 8, 2021
 0 10 20 40 60

SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 1 COUNTRY RD. P.O. BOX 480, MATTAPOISETT, MA 02739
 1-508-758-7866

Drawn By: D.M.D. Check By: D.M.D. Job No. 3298

PORTION OF LOT #2, MAP #30
 LOT #2 PLAN BOOK 62 PAGE 305
 N/F MARK SOLLAUER & SANDRA M. SOLLAUER



TEST PIT DATA
DATE OF SOIL EVALUATIONS: MAY 27, 2020
SOIL EVALUATOR: JAY MCKINNON, C.S.E.
ENGINEERING FIRM: SCHNEIDER, DAVIGNON & LEONE, INC.
INSPECTOR: KAREN WALLEGA, HEALTH AGENT

TEST PIT #	Depth	Elevation	Soil Description
TEST PIT #4-1	0"	31.8	HORIZON 0/A SANDY LOAM 10 YR 3/3 Very Friable
	10"	31.0	HORIZON B LOAMY SAND 10 YR 4/6 Very Friable, Massive <2% Gravel
	20"	30.1	HORIZON C1 M. SAND 2.5 YR 5/4 Loose, S. Grain SS Gravel
	30"	29.3	Soil Mottling
	37"	28.7	HORIZON C2 SANDY LOAM 2.5 Y 5/2 Firm, Blocky <2% Gravel
	68"	26.1	HORIZON C3 C. SAND 2.5 Y 5/3 Loose, S. Grain SS-10% Gravel
TEST PIT #4-2	0"	32.8	HORIZON 0/A SANDY LOAM 10 YR 3/3 Very Friable
	10"	32.0	HORIZON B LOAMY SAND 10 YR 4/6 Very Friable, Massive <2% Gravel
	26"	30.1	HORIZON C1 M. SAND 2.5 YR 5/4 Loose, S. Grain SS Gravel
	36"	29.8	Soil Mottling
	50"	28.6	HORIZON C2 SAND 2.5 Y 3/3 Loose, S. Grain
	80"	26.1	HORIZON C3 C. SAND 2.5 Y 5/3 Loose, S. Grain SS-10% Gravel
TEST PIT #4-3	0"	31.2	HORIZON 0/A SANDY LOAM 10 YR 3/3 Very Friable
	13"	30.1	HORIZON B LOAMY SAND 10 YR 4/6 Very Friable, Massive <2% Gravel
	26"	29.0	HORIZON C1 M. SAND 2.5 YR 5/4 Loose, S. Grain SS Gravel
	33"	28.5	Soil Mottling
	37"	27.3	Water Table
	52"	26.9	HORIZON C2 F. SAND 2.5 Y 5/2 Firm, Blocky <2% Gravel
TEST PIT #4-4	0"	32.0	HORIZON 0/A SANDY LOAM 10 YR 3/3 Very Friable
	11"	31.1	HORIZON B LOAMY SAND 10 YR 4/6 Very Friable, Massive <2% Gravel
	20"	30.3	HORIZON C1 M. SAND 2.5 YR 5/4 Loose, S. Grain SS Gravel
	32"	29.3	Soil Mottling
	36"	29.0	HORIZON C2 M-F SAND 2.5 Y 5/2 V. Friable, Massive <2% Gravel
	55"	27.4	Water Table
TEST PIT #4-5	60"	27.0	HORIZON C3 C. SAND 2.5 Y 5/3 Loose, S. Grain SS-10% Gravel
	108"	23.0	Water Table

SEWAGE DISPOSAL SYSTEM DESIGN DATA

FLOW REQUIREMENTS:
PROPOSED NUMBER OF BEDROOMS: FOUR (4)
DAILY DESIGN FLOW PER TITLE 5: 110 GALLONS/BEDROOM/DAY
TOTAL DESIGN FLOW: 110 GAL./BDRM x 4 BEDROOMS = 440 GAL./DAY

SEPTIC TANK SIZE:
TITLE 5: 440 GAL. X 200% = 880 GALLONS
INSTALL A 1,500 GAL. 2-COMPARTMENT PRECAST CONCRETE SEPTIC TANK

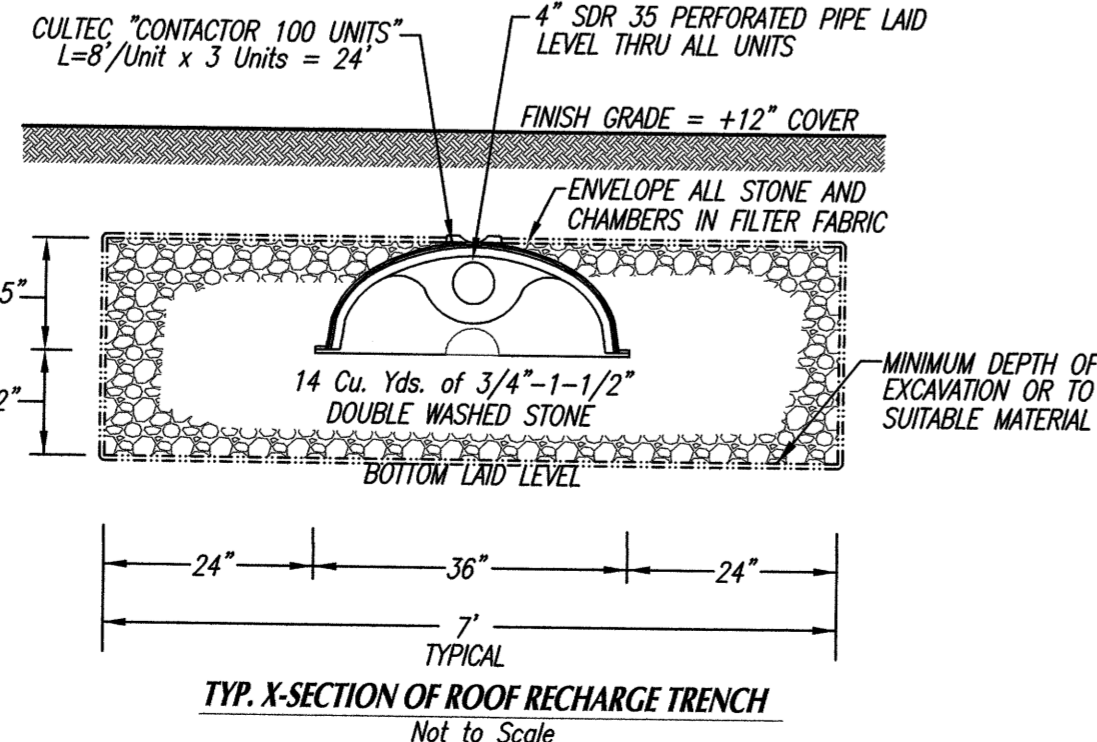
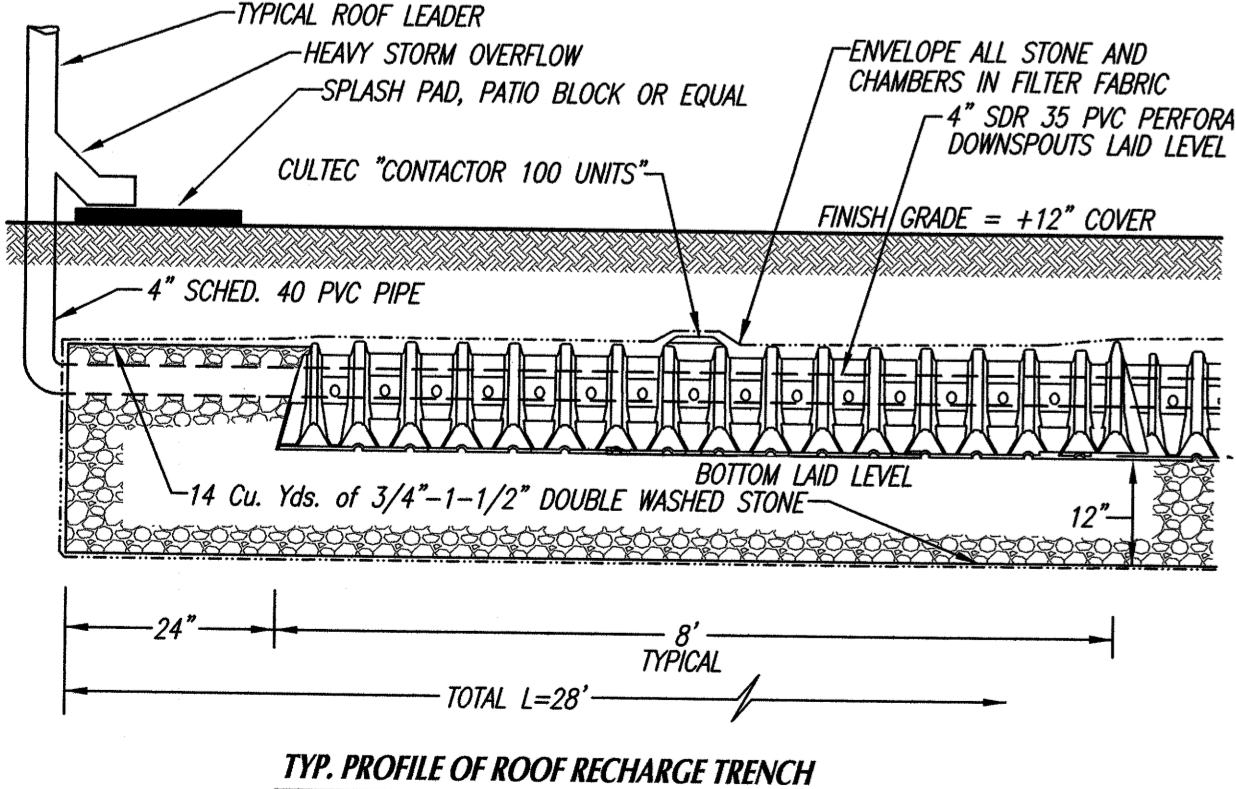
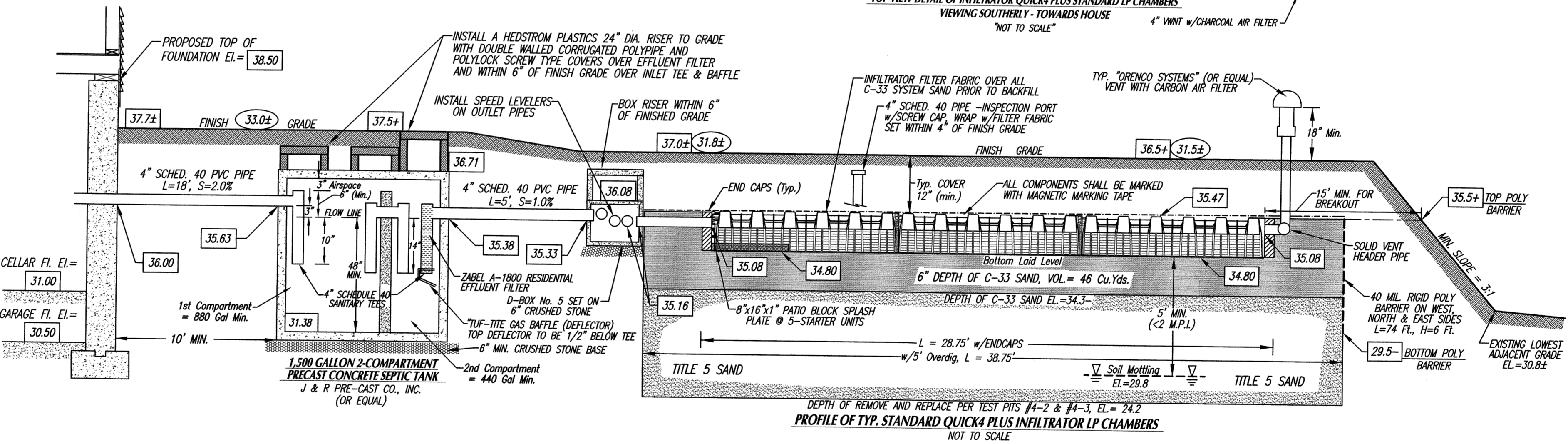
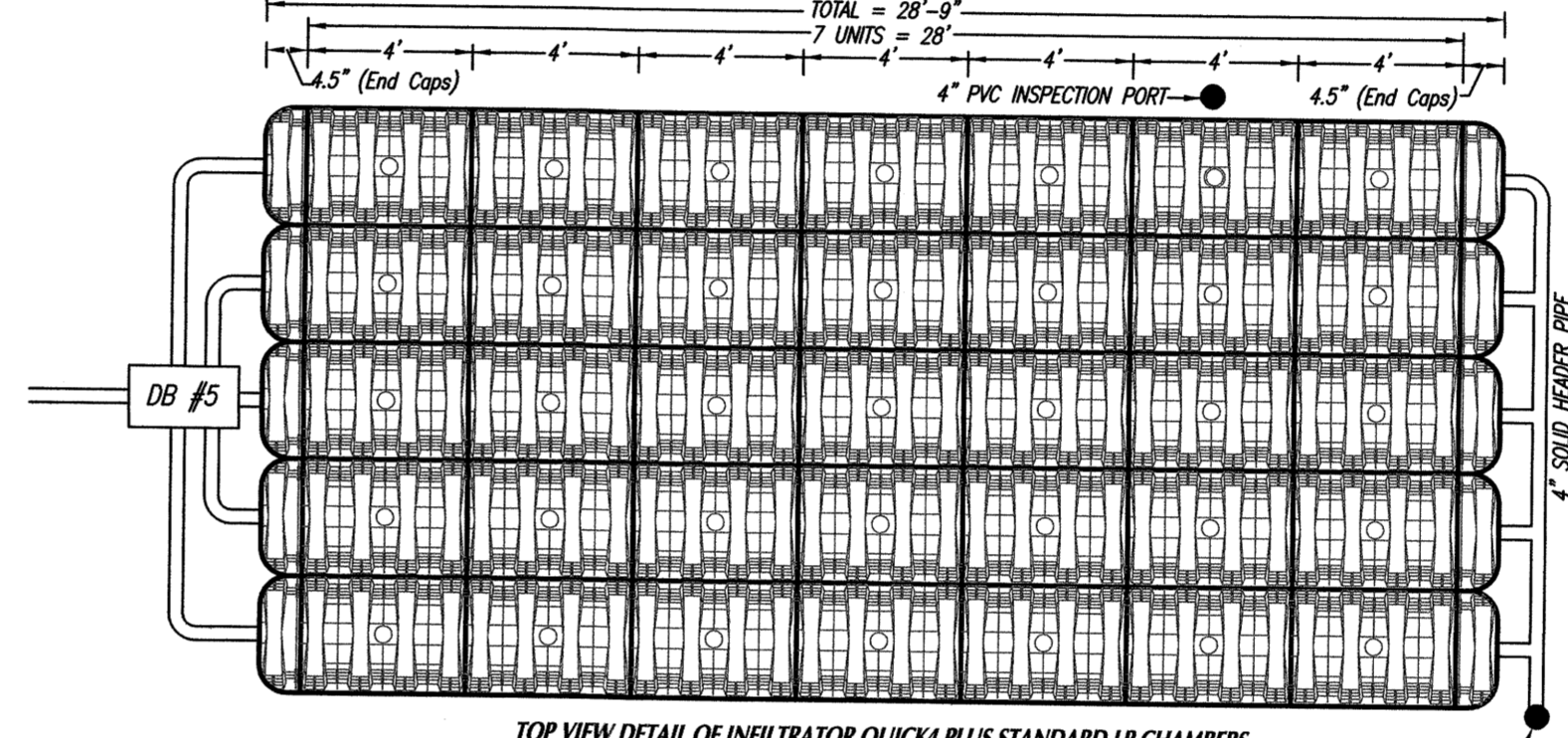
TYPICAL CHAMBER LEACHING FIELD:
DESIGN SOIL TEXTURAL CLASS: CLASS 1
DESIGN PERCOLATION RATE: 1 INCH IN 5 MINUTES
LONG TERM ACCEPTANCE RATE: 0.74

REQUIRED LEACHING AREA: 440 GAL./DAY Divided By LTRP: 0.74 = 595 Sq.Ft.
LEACHING AREA PROVIDED: 4.73 Sq.Ft./Linear Ft. OF INFILTRATOR QUICK4 PLUS STANDARD LP CHAMBERS (5 ROWS x 7 UNITS/ROW) = 35 UNITS x 4 FL./UNIT + (10 END CAPS x 0.375 FL./END CAP) = 143.75 LINEAR FT. OF INFILTRATOR QUICK4 PLUS STANDARD LP CHAMBERS x 4.73 SQ.FT./LINEAR FT. = 680 SQ.Ft.
880 Sq.Ft. x 0.74 GAL./Sq.Ft. = 503 GAL. LEACHING/DAY

TOTALS
TOTAL NUMBER OF DISTRIBUTION LINES = FIVE (5)
TOTAL NO. OF INFILTRATOR QUICK4 PLUS STANDARD LP (INV.=3.3") CHAMBERS = 35
TOTAL LEACHING AREA = 680 > 595 Sq.Ft.
TOTAL LEACHING CAPACITY = 503 GAL./DAY >> 440 GAL./DAY

GENERAL NOTES:

- UNLESS OTHERWISE NOTED, ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS SHALL CONFORM TO 310 CMR 15.00, TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND ANY APPLICABLE LOCAL REGULATIONS.
- ANY AND ALL CHANGES TO THIS DESIGN PLAN MUST BE APPROVED BY THE DESIGN ENGINEER AND BOARD OF HEALTH.
- DESIGN ENGINEER AND LOCAL BOARD OF HEALTH ARE TO BE NOTIFIED PRIOR TO BACKFILLING WHEN THE SYSTEM IS NEARLY COMPLETE AND READY FOR INSPECTION. THE SYSTEM IS NOT TO BE BACKFILLED WITHOUT FIRST OBTAINING APPROVAL FROM THE BOARD OF HEALTH AND DESIGN ENGINEER.
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION THROUGH DIG SAFE AND OTHER APPROPRIATE AGENCIES, AND REPORT ANY DISCREPANCIES TO DESIGN ENGINEER.
- CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER OF ANY AND ALL DISCREPANCIES FOUND BETWEEN THE SITE CONDITIONS AND THOSE SHOWN ON DESIGN PLAN PRIOR TO THE CONTINUATION OF WORK.
- SEPTIC SYSTEM COMPONENTS SHALL BE #4-20 PRODUCTS IF LOCATED UNDER DRIVEWAY, PARKING OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC. ALL OTHER SYSTEM COMPONENTS SHALL BE #10 PRODUCTS.
- GROUT OR CAST IN PLACE RUBBER BOOT IS TO BE USED WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATER-TIGHT SEAL.
- USE ALL SCHEDULE 80 PIPE UNDER DRIVEWAY AND SCHEDULE 40 AS SPECIFIED.
- THE MINIMUM SLOPE PER TITLE 5 FOR ALL 4" SOLID PIPE = 1.0%.
- THIS SYSTEM IS NOT DESIGNED FOR A GARBAGE DISPOSAL UNIT, WATER SOFTENER OR OTHER HIGH WATER USES.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE.



"REMOVE AND REPLACE" NOTE:
WHERE REQUIRED, CONTRACTOR IS TO REMOVE ALL LOAM, SUBSOIL AND OTHER UNSUITABLE MATERIAL IN THE AREA BENEATH AND FOR 5 FT. ON ALL SIDES OF THE LEACHING FACILITY. EXCAVATED MATERIAL IS TO BE REPLACED WITH CLEAN COARSE SAND FREE FROM CLAY, FINES, OR OTHER UNSUITABLE MATERIAL. IN ACCORDANCE WITH 310CMR 15.25(3) CONTRACTOR SHALL PROVIDE A SIEVE ANALYSIS OF FILL MATERIAL. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN TWO INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE. UP TO 45% BY WEIGHT OF THE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. SIEVE ANALYSIS ALSO SHALL BE PERFORMED ON A FRACTION OF SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSIS MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS AS LISTED TO THE BELOW:

SIEVE SIZE	% THAT MUST PASS SIEVE
#4	100%
#10	10%-100%
#20	0%-20%
#30	0%-5%

BOTTOM OF EXCAVATION SHALL BE LEVEL AT ELEVATION 24.2 INTO HORIZON C4, COARSE SAND STRATA AT AN 84" DEPTH PER TEST PIT #4-3 REMOVING HORIZONS A, B, C1, C2 AND C3 TO GET TO HORIZON C4, NOTING THAT HORIZON C2 & C3, 26" OF SAND CAN BE UTILIZED UPON REMOVAL OF C4 (ELEVATION TO BE VERIFIED BY ENGINEER IN FIELD PRIOR TO INSTALLATION).
TOP OF FILL PER NOTE TO EXTEND TO EL. = 35.47 TOP OF CHAMBERS.
APPROX. VOLUME OF TITLE 5 SAND REQUIRED = 365 Cu.Yds. (20% Compaction Allowance)
APPROX. VOLUME OF C-33 SAND REQUIRED = 46 Cu.Yds. (20% Compaction Allowance)

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SEWAGE DISPOSAL SYSTEM - SITE PLAN
FOR PROPERTY KNOWN AS ANR LOT #2-3
ON CLAPP ROAD
IN ROCHESTER, MA
PREPARED FOR
CLAPP NOMINEE TRUST

SHEET 3 OF 3 SHEETS

SCALE: 1"=20' DATE: DECEMBER 8, 2021

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