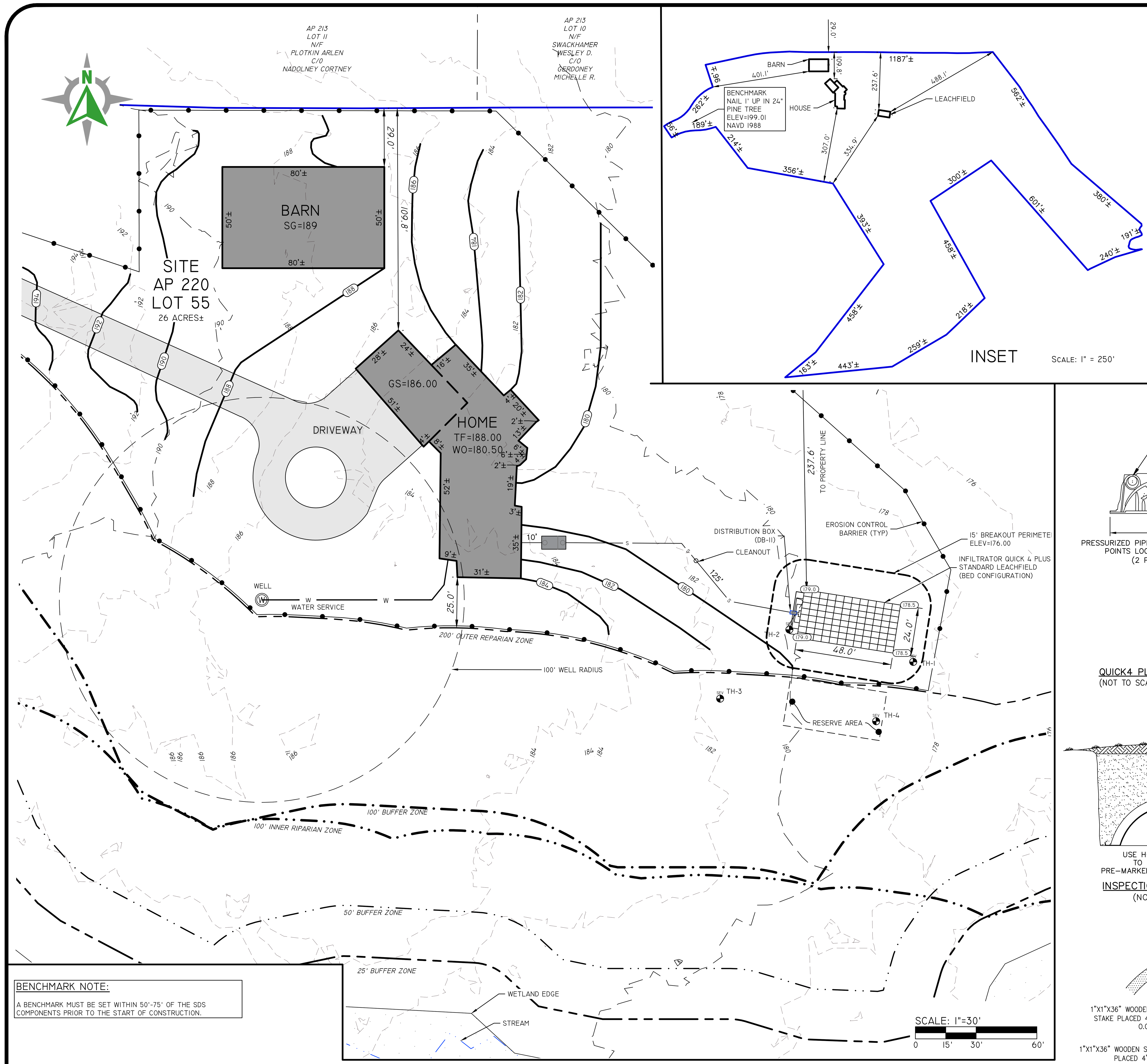
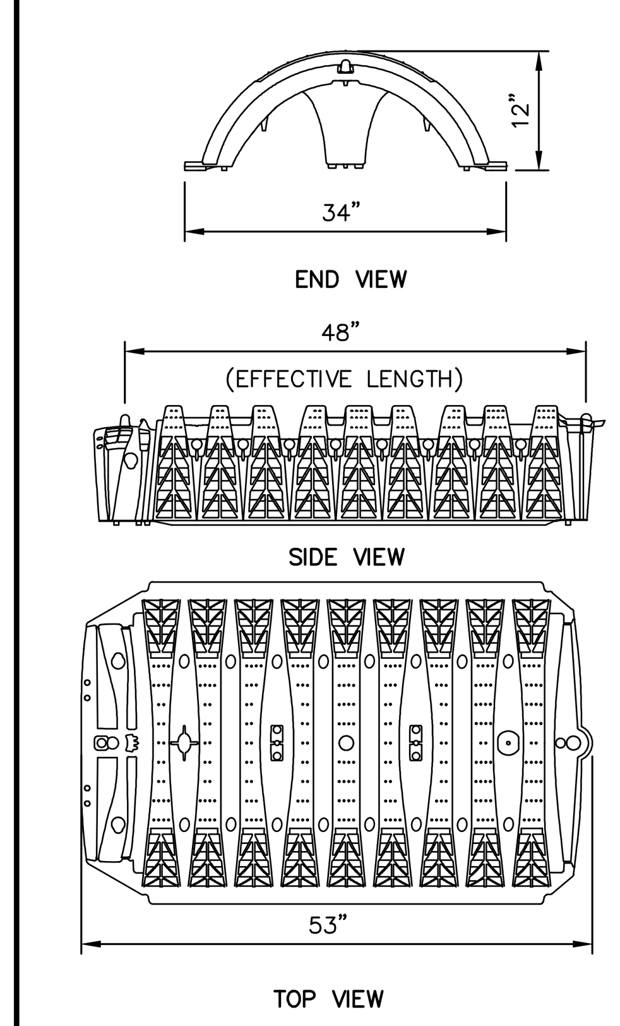
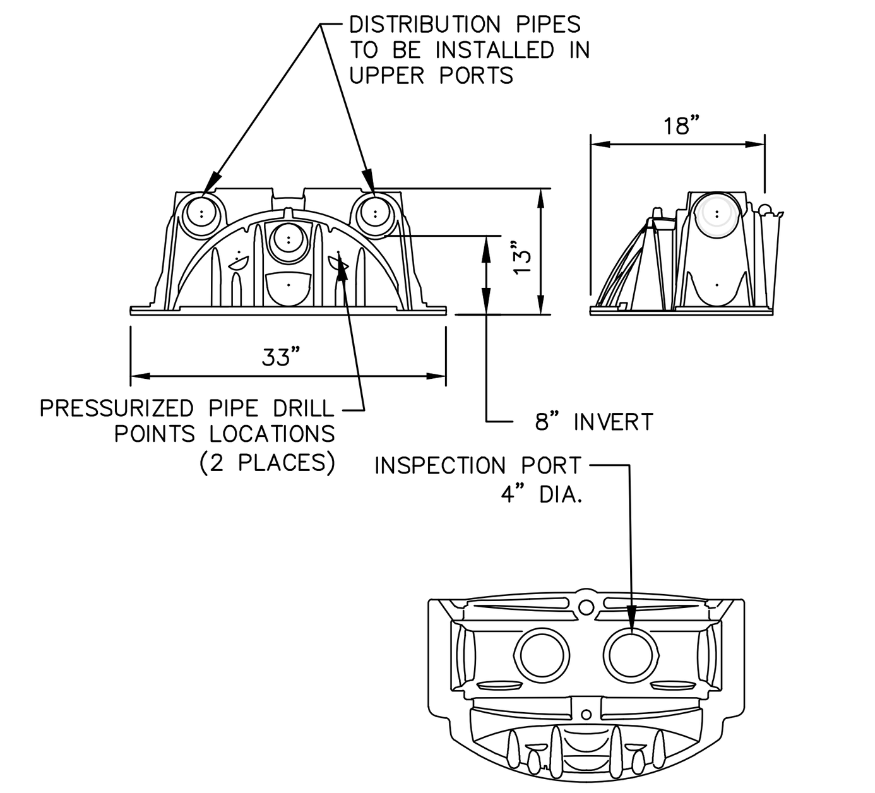


BENCHMARK NOTE:

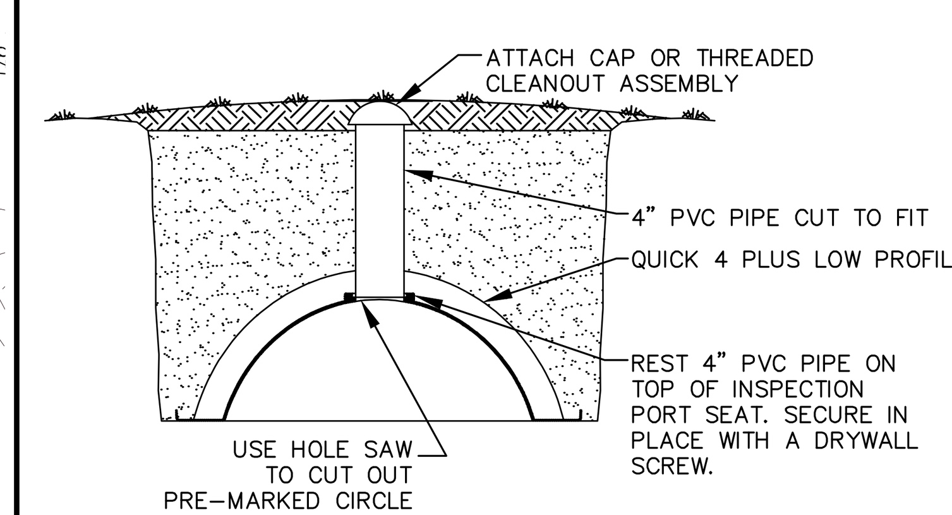
A BENCHMARK MUST BE SET WITHIN 50'-75' OF THE SDS COMPONENTS PRIOR TO THE START OF CONSTRUCTION.



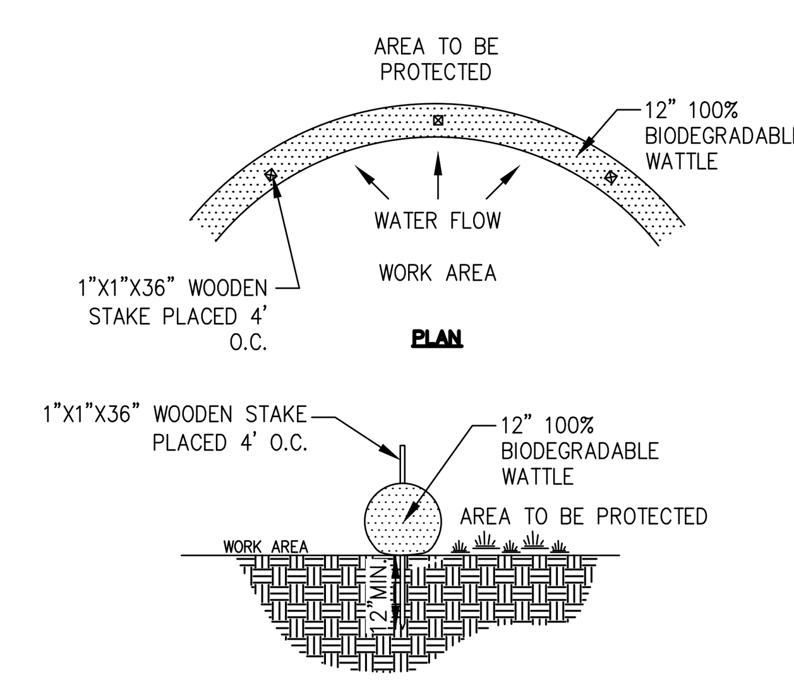
QUICK4 PLUS STANDARD DETAIL
(NOT TO SCALE)



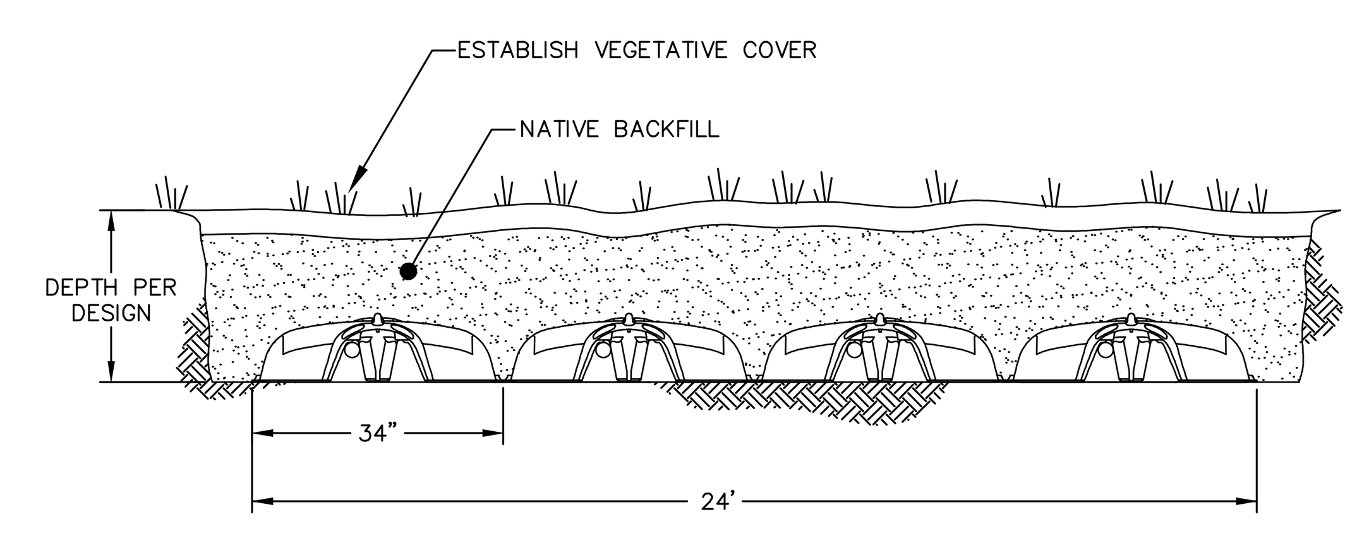
QUICK4 PLUS ALL-IN-ONE 12 END CAP
(NOT TO SCALE)



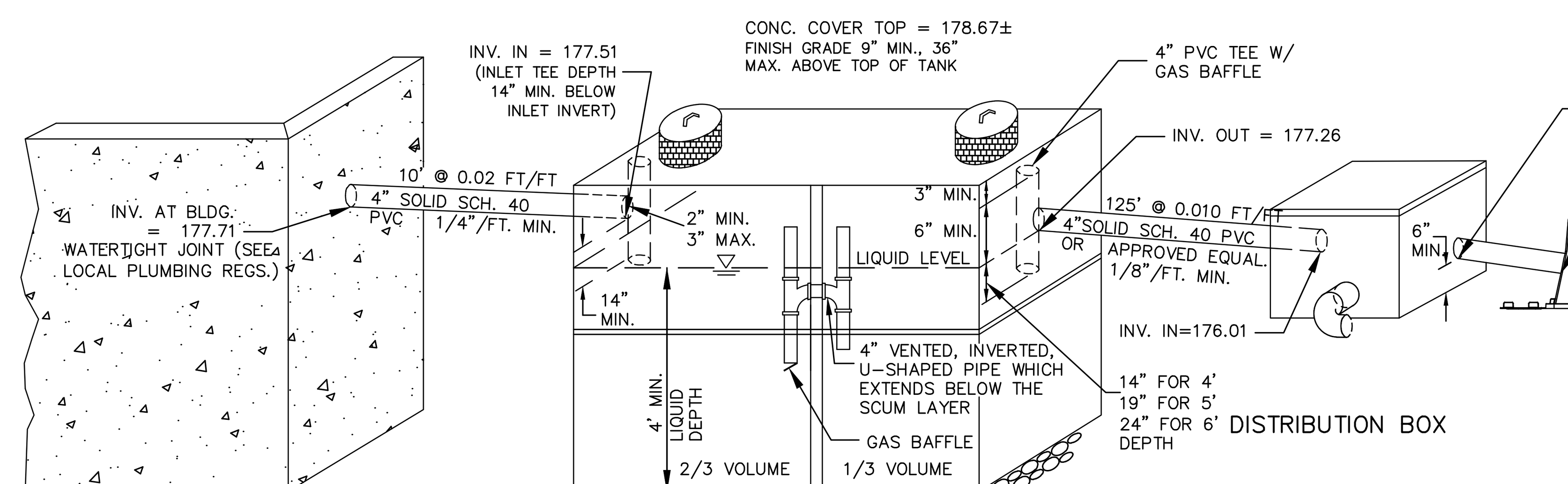
INSPECTION PORT SECTION
(NOT TO SCALE)



EROSION CONTROL BARRIER (ECB)
SCALE: N.T.S.



INFILTRATOR QUICK4 PLUS STANDARD BED CROSS SECTION DETAIL
(NOT TO SCALE)



FOUNDATION

2,000 GALLON TWO-COMPARTMENT SEPTIC TANK

LEACHING FIELD 24' X 48' = 1152 S.F.

INFILTRATOR QUICK4 PLUS STANDARD CHAMBER

SEPTIC TANK NOTES:

SEPTIC TANK SHALL BE A PRECAST, REINFORCED CONCRETE TANK MADE WATERTIGHT. CONSTRUCTION MATERIALS AND DIMENSIONS SHALL CONFORM TO TITLE 5 AND AASHTO HS 10 REQUIREMENTS AND PLACED ON A STABLE MECHANICALLY COMPACTED LEVEL BASE.

TANK/ SYSTEM TO BE VENTED THROUGH THE BUILDING PLUMBING SYSTEM AS REQUIRED BY BUILDING CODE.

TANK SHOULD BE INSPECTED, MAINTAINED AND BE PUMPED OUT WHEN SLUDGE DEPTH IN THE BOTTOM EXCEEDS ONE FOURTH OF THE TOTAL LIQUID DEPTH.

AT LEAST THREE 20" MANHOLES SHALL BE PROVIDED. AT LEAST ONE OF THE MANHOLES SHALL HAVE AN ACCESS PORT ACCESSIBLE TO WITHIN 6" OF FINISH GRADE.

"D" BOX NOTES:

"D" BOX TO BE MADE WATERTIGHT. CONSTRUCTION MATERIALS AND DIMENSIONS SHALL CONFORM TO TITLE 5 AND AASHTO HS 10 REQUIREMENTS AND PLACED ON A STABLE MECHANICALLY COMPACTED LEVEL BASE.

"D" BOX OUTLETS SHALL BE INSTALLED LEVEL ("BUILT UP" INVERTS, NOT PERMITTED.

FIRST 2' (MIN.) OF OUTLETS SHALL BE INSTALLED LEVEL TO EQUALIZE FLOW.

THE MINIMUM INSIDE DIMENSIONS OF THE "D" BOX TO BE 12" AND THE MINIMUM WALL THICKNESS TO BE 2".

WHEN INLET PIPE SLOPE EXCEEDS 8%-PVC INLET TEE REQUIRED. CUT LOW END 1" ABOVE OUTLET INVERT.

"D" BOX COVER TO BE SEALED WITH BITUMEN.

LEACH AREA NOTES:

ALL LOAM, LARGE BOULDERS OR FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION ARE TO BE REMOVED FROM THE LEACHING AREA.

GRAVEL FILL IS REQUIRED, ALL TOP & SUBSOIL AND ORGANIC MATERIAL SHALL BE REMOVED FROM AREA TO BE FILLED. FILL SHALL BE COMPACTED TO MINIMIZE SETTLEMENT AND SHALL BE CLEAN GRANULAR MATERIAL, FREE FROM FINES AND ORGANIC MATERIALS, AND SHALL BE IN ACCORDANCE WITH 310 CMR 15.255(3).

ALL DISTURBED AREAS ARE TO BE LOAMED, SEEDED AND MAINTAINED TO PREVENT EROSION.

AREAS ABOVE THE SOIL ABSORPTION SYSTEM SHALL REMAIN PERVIOUS UNLESS UNAVOIDABLE. IN SUCH CASES THE SYSTEM SHALL BE VENTED.

GENERAL NOTES:

ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.

SYSTEM IS DESIGNED TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH NORMAL DOMESTIC USE AND CONSISTING OF WATER CARRIED PUTRESCIBLE WASTE ONLY.

ALL COMPONENTS OF THE SEWAGE DISPOSAL SYSTEM SHALL BE COVERED BY A MAXIMUM OF 36" OF CLEAN BACKFILL MATERIAL, FREE OF STONES AND BOULDERS GREATER THAN 6" IN SIZE.

OWNER SHALL VERIFY EFFECTIVE ZONING REGULATIONS PRIOR TO CONSTRUCTION.

PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON DATE OF TOPOGRAPHY, AND THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. IS NOT INTENDED OR IMPLIED.

ALL PIPING SHALL BE LAID TRUE TO LINE, GRADE AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

THE DESIGN ENGINEER SHALL BE NOTIFIED PROMPTLY OF ANY PLAN DEFICIENCIES FOUND DUE TO UNFORESEEN SUBSURFACE CONDITIONS OR OTHER REASONS THAT MIGHT AFFECT THE FUNCTION OF THIS DESIGNED SYSTEM.

DEVIATIONS IN DESIGN OR CONSTRUCTION FROM THIS PLAN OR ANY OF THE CONDITIONS RELATING TO THE USE OR MAINTENANCE OF THE PROPOSED SYSTEM SHALL BE DEEMED TO VOID ANY CERTIFICATION OR REPRESENTATION MADE RELATIVE TO THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM.

CONTRACTOR SHALL NOTIFY "DIG SAFE" PRIOR TO ANY EXCAVATION. 1-888-DIG-SAFE (344-7233)

PRIOR TO ANY CONSTRUCTION A BENCHMARK SHALL BE SET WITHIN 50-75' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.

HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANK, "D" BOX AND WHEN REQUIRED, THE PUMP CHAMBER.

WATER SOFTENERS ARE NOT TO BE CONNECTED TO SEPTIC SYSTEM.

SITE SPECIFIC NOTES:

THERE ARE NO EXISTING WELLS WITHIN 100' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM. (50' OF THE SEPTIC TANK.)

THERE ARE NO EXISTING SEWAGE DISPOSAL SYSTEMS WITHIN 100' OF THE EXISTING WELL.

ALL KNOWN WELLS WITHIN 200' OF THE PROPOSED PRIMARY AND EXPANSION LEACH AREAS ARE SHOWN.

ALL KNOWN SEPTIC SYSTEMS WITHIN 150 FEET OF THE PROPOSED SEPTIC ARE SHOWN.

NO PUBLIC WATER SUPPLY WELLS EXIST ON SITE.

PROJECT DOES NOT FALL WITHIN A FLOOD HAZARD AREA FLOOD MAP.

WATER LINES SHALL BE A MINIMUM OF 10' FROM ANY SYSTEM COMPONENT.

FOUNDATION DRAINS SHALL BE PROVIDED AND SHALL DISCHARGE BY GRAVITY OR MECHANICAL MEANS IN COMPLIANCE WITH THE APPLICABLE BUILDING AND PLUMBING CODES.

CONTRACTOR TO PROVIDE SAFETY BARRIERS/MEASURES AS NECESSARY TO ENSURE VEHICULAR AND PEDESTRIAN SAFETY.

ASSESSOR'S MAP 220, LOT 55

ZONE: RURAL RESIDENTIAL 1(RR-1)

ZONING REQUIREMENTS	
FRONT SETBACK	40 FEET
SIDE SETBACK	40 FEET
REAR SETBACK	40 FEET

OBSERVATION TEST HOLE DATA
PERFORMED BY: ROBERT E. DEWAR, E.I.T., SE #14230
WITNESSED BY: WADE SAUCIER

TH-1 (ELEV. = 179)

0"-8"	A/0	LOAMY SAND
8"-18"	Bw	LOAMY SAND
18"-48"	C1	FINE LOAMY SAND
48"-102"	C2d	SANDY LOAM

MOTTLING NOT OBSERVED
NO GROUNDWATER OBSERVED
NO WEEPING
NO STANDING
REFUSAL AT 102"

TH-2 (ELEV. = 180)

0"-5"	A/0	LOAMY SAND
5"-16"	Bw	LOAMY SAND
16"-48"	C1	FINE LOAMY SAND
48"-100"	C2d	SANDY LOAM

MOTTLING NOT OBSERVED
NO GROUNDWATER OBSERVED
NO WEEPING
NO STANDING
REFUSAL AT 100"

TH-3 (ELEV. = 182)

0"-6"	A/0	LOAMY SANDY
6"-24"	Bw	LOAMY SAND
24"-40"	C1	FINE LOAMY SAND
40"-96"	C2d	SANDY LOAM

MOTTLING NOT OBSERVED
NO GROUNDWATER OBSERVED
NO WEEPING
NO STANDING
REFUSAL AT 96"

TH-4 (ELEV. = 179)

0"-8"	A/0	LOAMY SANDY
8"-22"	Bw	LOAMY SAND
22"-48"	C1	FINE LOAMY SAND
48"-96"	C2d	SANDY LOAM

MOTTLING NOT OBSERVED
NO GROUNDWATER OBSERVED
NO WEEPING
NO STANDING
REFUSAL AT 96"

DESIGN CRITERIA (GARBAGE GRINDERS – NOT PERMITTED)

PERC. TESTS: PERFORMED BY: ROBERT E. DEWAR, E.I.T.
WITNESSED BY: WADE SAUCIER

PERC. #	RATE (M/I)	ELEVATION	DEPTH	DATE
TH-2	30	180.0±	48"	6/23/22
TH-4	8	179.0±	52"	6/23/22

LOADING RATE: 0.33 GPD/SQ.FT.

FLOWS: 5 BEDROOMS AT 110 GPD = 550 GPD (330 GPD MIN.)

SEPTIC TANK REQUIRED: (2,000 GAL. MIN.)
550 GPD X 3.0 = 1,650 GAL. TANK

LEACHING AREA PROVIDED:
A. BASIS 30 MIN./IN. PERCOLATION RATE

INFILTRATOR SIZING

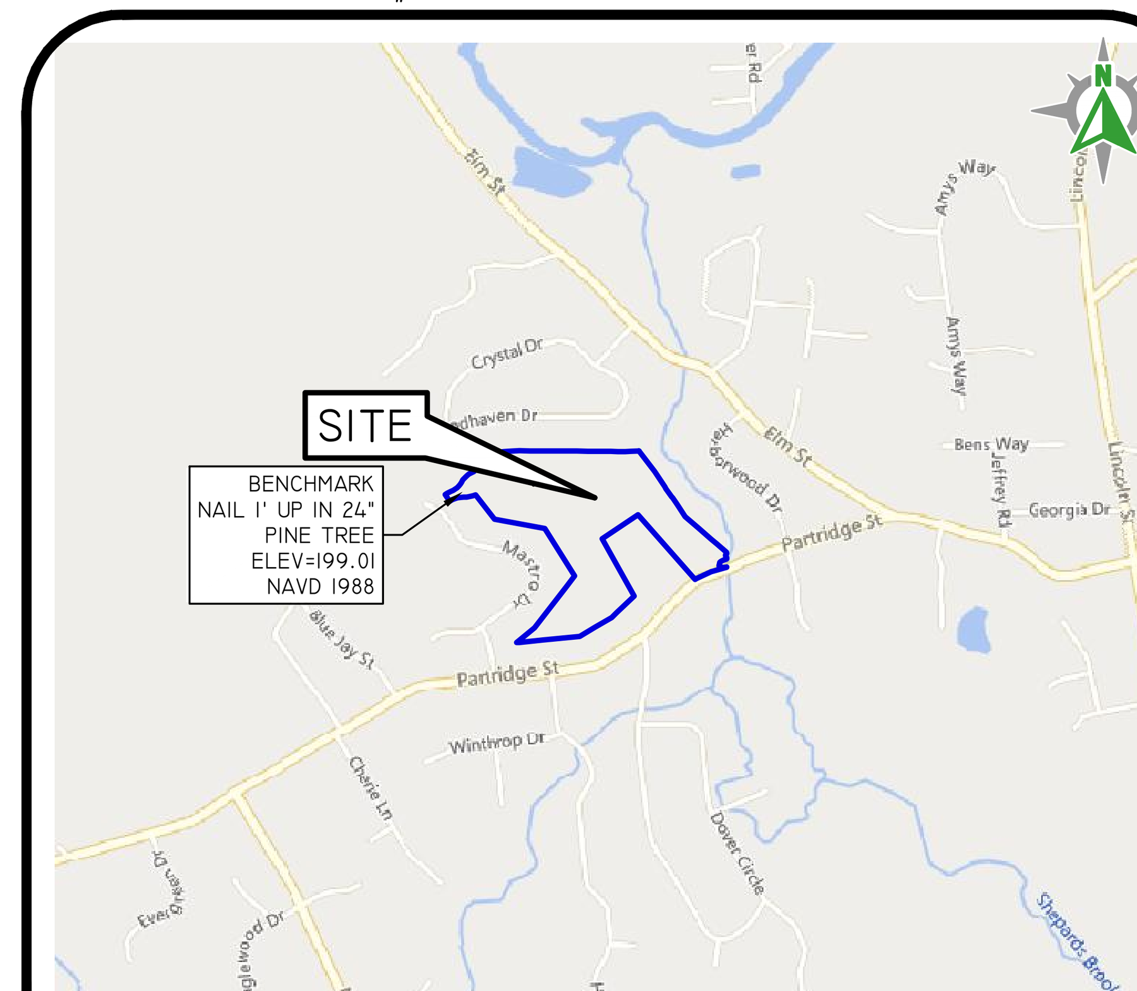
UNIT DIMENSIONS 34"(W) x 48"(L) x 8"(H)
EFFECTIVE LEACHING AREA = 4.73 S.F./LF
550 GPD/0.33 GPD/S.F. = 1666.7 S.F.
1666.7 S.F./4.73 S.F./LF = 352.4 LF
352.4 LF/4' PER UNIT = 88.1 UNITS – USE 96 UNITS
USE 24' x 48' FIELD CONFIGURATION

SCHEDULE OF ELEVATIONS	
EXISTING GROUND ELEVATION	179.0
DEPTH TO GROUNDWATER	8.0'
GROUNDWATER ELEVATION	171.0
GROUNDWATER OFFSET	4'
BOTTOM OF SYSTEM (MIN.)	175.0

SYSTEM IN FILL ☐ REQUIRED ☒ NOT REQUIRED

IF ANY PORTION OF THE PROPOSED LEACHING AREA IS LOCATED ABOVE EXISTING GRADE OR WITHIN TOPSOIL, PEAT OR OTHER UNSUITABLE OR IMPERVIOUS SOIL LAYER, THEN THE PLACEMENT OF FILL IS REQUIRED. PRIOR TO THE PLACEMENT OF FILL, ALL UNSUITABLE OR IMPERMEABLE SOILS SHALL BE EXCAVATED TO A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL. FILL MATERIAL SHALL BE SELECT, ON-SITE OR IMPORTED SOIL, CONSISTING OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT SOIL CLASSES SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. A SIEVE ANALYSIS USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED IN THE #4 SIEVE. SIEVE ANALYSES SHALL ALSO BE PERFORMED ON THE FRACTION OF FILL SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
# 4	4.75 MM	100%
# 50	0.30 MM	10%-100%
#100	0.15 MM	0%-20%
#200	0.075 MM	0%-5%



VICINITY MAP SCALE: 1" = 1,000'

DiPrete Engineering
104 Mendon Street, Uxbridge, RI 01569
tel 508-278-3897
Boston • Providence • Newport

COMMONWEALTH OF MASSACHUSETTS
JASON P. CLOUGH
CIVIL
No.48522
REGISTERED PROFESSIONAL ENGINEER
2/16/23

NO.	DATE	DESCRIPTION	BY:
3	2-16-2023	DESIGN UPDATE	S.R.
2	9-20-2022	DESIGN UPDATE	J.P.C.
1	9-8-2022	RESPONSE TO COMMENTS	S.R.
0	8-23-2022	BOARD OF HEALTH SDS SUBMISSION	S.R.

DRAWN BY: S.R. DESIGN BY: J.P.C.

SEWAGE DISPOSAL SYSTEM

137 MASTRO DRIVE

ASSESSOR'S MAP 220 LOT 55
FRANKLIN, MA

PREPARED FOR:
MR. BENJAMIN KILBANOFF
28 CHESSET LANE, ATTLEBORO, MA 02703TEL

SHEET OF 1