GeoU1851 LEACHING TRENCH — CROSS SECTION A-A'

FINISHED GRADE SHALL BE PITCHED TO SHEET FLOW STORWATER AWAY FROM SYSTEM

10 MIL POLY (IF SPECIFIED) EXTEND TO EDGE OF EXCAVATION (MINIMUM)

COVER MATERIAL DEPTH SHALL BE ≥ 6" AND SHALL BE UNIFORM OVER SYSTEM

18.5" 4" 1"

CORE — FABRIC — ASTM C-33 SAND OR APPROVED EQUIVALENT

LENGTH OF LEACHING FIELD

2" MINIMUM ASTM C-33 SAND OR APPROVED EQUIVALENT ON PERIMETER, BOTTOM AND TOP OF SYSTEM

GeoMat Edge U-Shape Leaching System
Geomatrix Systems, LLC
114 Mill Rock Road East
Old Saybrook, CT 06475
(860) 510-0730

SCALE: 1"=1'
0   .5   1   2 FEET

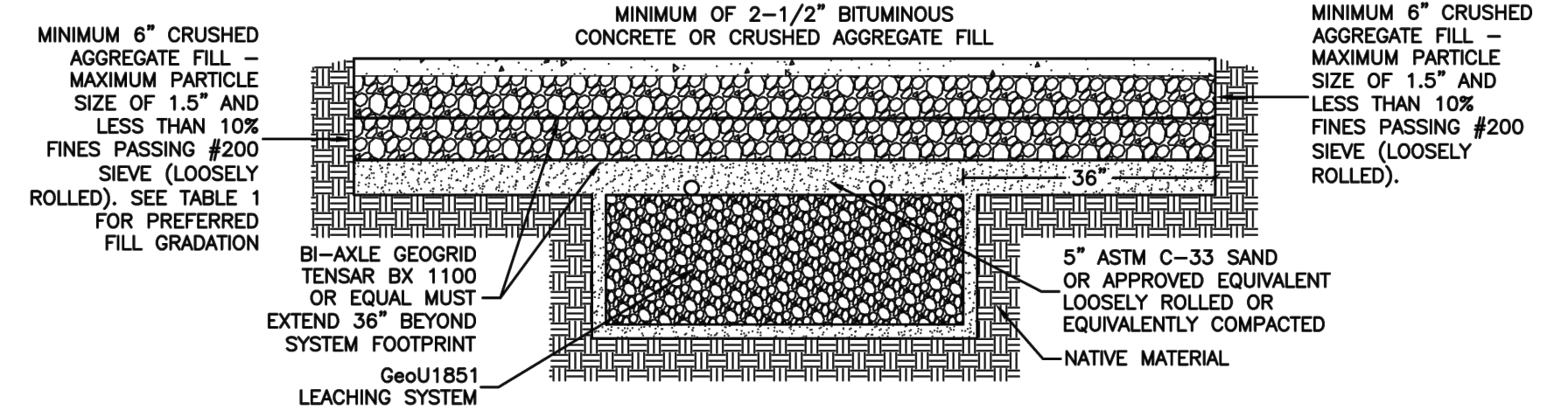| DATE: | 4/7/2011 | REVISIONS: |
| DRAWN BY: | SMM | ACAD No. GeoU 1851 A-A' view.DWG |
| APPROVED BY: | | SHEET No. 1 OF 1 |

Manufactured under one or more of the following U.S. Patents: 6,485,647, 6,762,401, 6,814,866, 6,887,383, 6,923,905, 6,959,882, 6,969,464, 7,157,001, 7,309,434, 7,351,005, 7,374,670, 7,465,390, 7,744,759

GeoU1851 LEACHING TRENCH — CROSS SECTION C-C'

FINISHED GRADE SHALL BE PITCHED TO SHEET FLOW STORWATER AWAY FROM SYSTEM

COVER MATERIAL DEPTH SHALL BE ≥ 6" AND SHALL BE UNIFORM OVER SYSTEM

(2) 2" SCH. 40 ASTM D-1785 PVC PIPE

18.5"

2" MINIMUM ASTM C-33 SAND OR APPROVED EQUIVALENT ON PERIMETER, BOTTOM AND TOP OF SYSTEM

51"

10 MIL POLY (IF SPECIFIED) EXTEND TO EDGE OF EXCAVATION (MINIMUM)

GeoU1851 LEACHING SYSTEM

ASTM C-33 SAND OR APPROVED EQUIVALENT

GeoMat Edge U-Shape Leaching System
Geomatrix Systems, LLC
114 Mill Rock Road East
Old Saybrook, CT 06475
(860) 510-0730

SCALE: 1"=1'
0   .5   1   2 FEET

DATE:	4/7/2011	REVISIONS:
DRAWN BY:	SMM	ACAD No. GeoU 1851 C-C' view.DWG
APPROVED BY:		SHEET No. 1 OF 1

Manufactured under one or more of the following U.S. Patents: 6,485,647, 6,762,401, 6,814,866, 6,887,383, 6,923,905, 6,959,882, 6,969,464, 7,157,001, 7,309,434, 7,351,005, 7,374,670, 7,465,390, 7,744,759
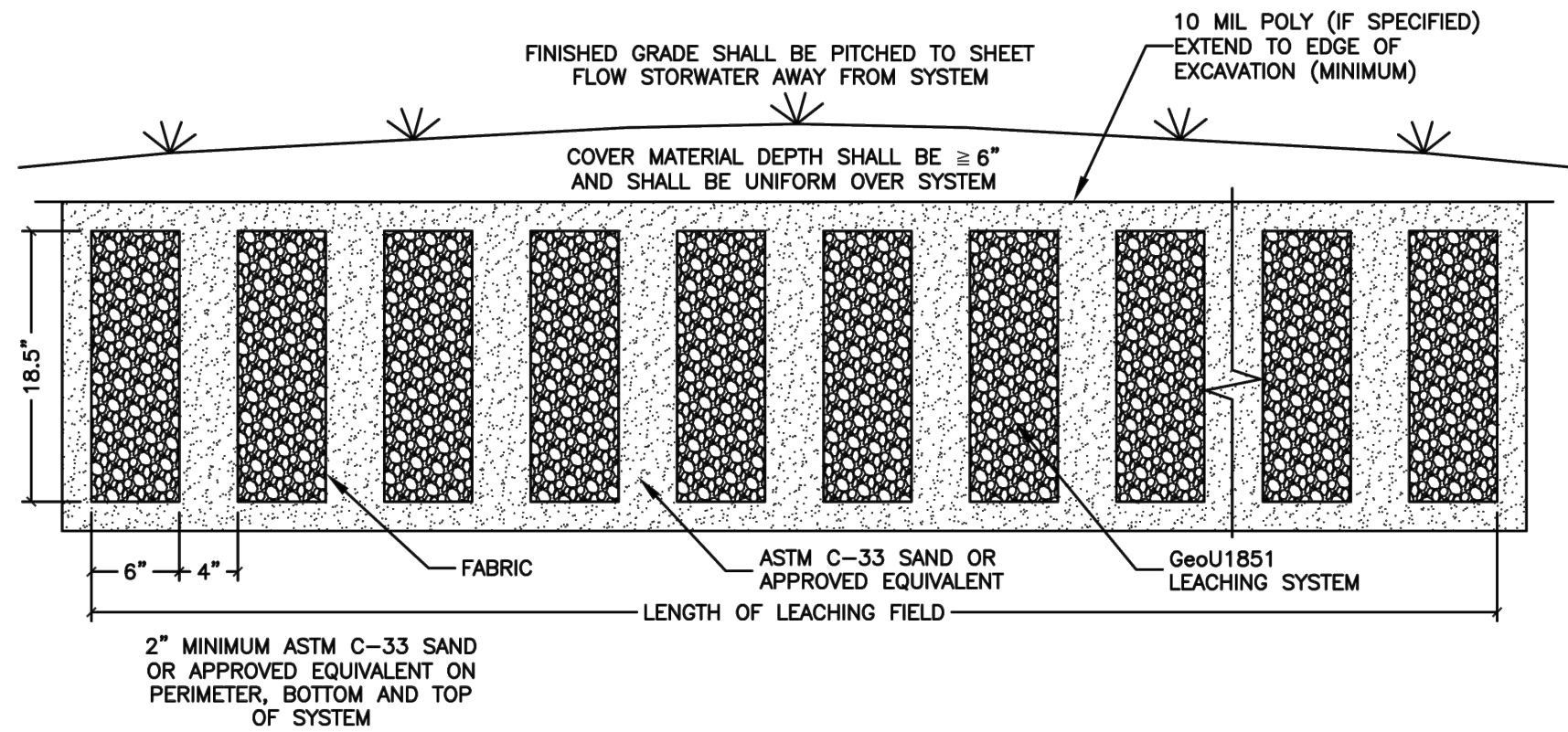

GeoU1851 H-20 LOADING

MINIMUM 6" CRUSHED AGGREGATE FILL — MAXIMUM PARTICLE SIZE OF 1.5" AND LESS THAN 10% FINES PASSING #200 SIEVE (LOOSELY ROLLED). SEE TABLE 1 FOR PREFERRED FILL GRADATION

MINIMUM OF 2-1/2" BITUMINOUS CONCRETE OR CRUSHED AGGREGATE FILL

MINIMUM 6" CRUSHED AGGREGATE FILL — MAXIMUM PARTICLE SIZE OF 1.5" AND LESS THAN 10% FINES PASSING #200 SIEVE (LOOSELY ROLLED).

36"

BI-AXLE GEOGRID TENSAR BX 1100 OR EQUAL MUST EXTEND 36" BEYOND SYSTEM FOOTPRINT

GeoU1851 LEACHING SYSTEM

5" ASTM C-33 SAND OR APPROVED EQUIVALENT LOOSELY ROLLED OR EQUIVALENTLY COMPACTED NATIVE MATERIAL

CRUSHED AGGREGATE FILL GRADATION

SIZE	% PASSING
1-1/2"	100
3/4"	50-100
#4	25-50
#40	10-20
#100	5-15
#200	LESS THAN 10

GeoMat Edge U-Shape Leaching System
Geomatrix Systems, LLC
114 Mill Rock Road East
Old Saybrook, CT 06475
(860) 510-0730

SCALE: 1"=2'
0   .5   1   2 FEET

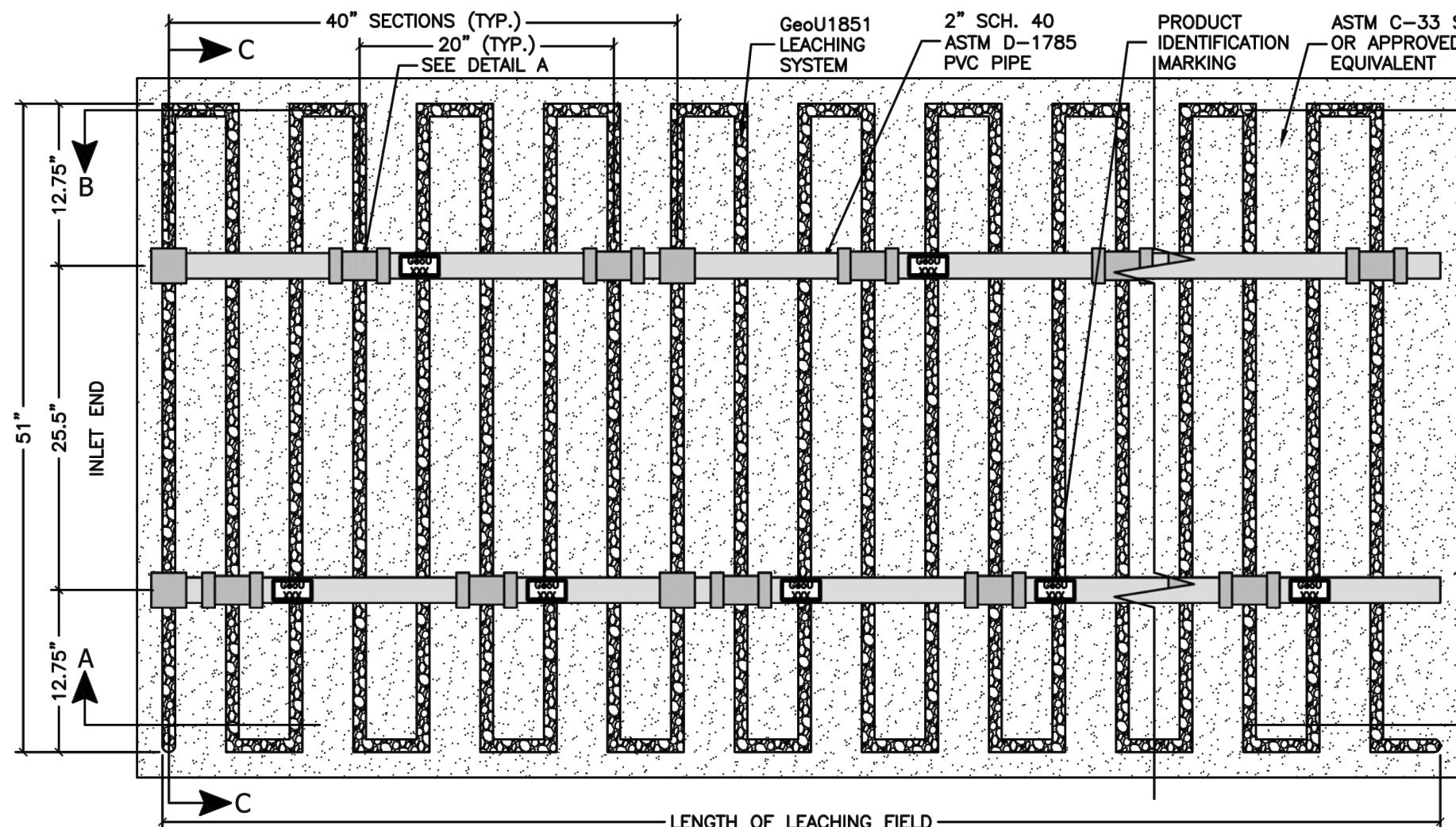| DATE: | 4/7/2011 | REVISIONS: |
| DRAWN BY: | SMM | ACAD No. GeoU 1851 H-20 Loading.DWG |
| APPROVED BY: | | SHEET No. 1 OF 1 |

Manufactured under one or more of the following U.S. Patents: 6,485,647, 6,762,401, 6,814,866, 6,887,383, 6,923,905, 6,959,882, 6,969,464, 7,157,001, 7,309,434, 7,351,005, 7,374,670, 7,465,390, 7,744,759

GeoU1851 LEACHING TRENCH — CROSS SECTION B-B'

FINISHED GRADE SHALL BE PITCHED TO SHEET FLOW STORWATER AWAY FROM SYSTEM

10 MIL POLY (IF SPECIFIED) EXTEND TO EDGE OF EXCAVATION (MINIMUM)

COVER MATERIAL DEPTH SHALL BE ≥ 6" AND SHALL BE UNIFORM OVER SYSTEM

COMPRISED OF CLEAN

18.5"

6" 4"

FABRIC — ASTM C-33 SAND OR APPROVED EQUIVALENT — GeoU1851 LEACHING SYSTEM

LENGTH OF LEACHING FIELD

2" MINIMUM ASTM C-33 SAND OR APPROVED EQUIVALENT ON PERIMETER, BOTTOM AND TOP OF SYSTEM

GeoMat Edge U-Shape Leaching System
Geomatrix Systems, LLC
114 Mill Rock Road East
Old Saybrook, CT 06475
(860) 510-0730

SCALE: 1"=1'
0   .5   1   2 FEET

DATE:	4/7/2011	REVISIONS:
DRAWN BY:	SMM	ACAD No. GeoU 1851 B-B' view.DWG
APPROVED BY:		SHEET No. 1 OF 1

Manufactured under one or more of the following U.S. Patents: 6,485,647, 6,762,401, 6,814,866, 6,887,383, 6,923,905, 6,959,882, 6,969,464, 7,157,001, 7,309,434, 7,351,005, 7,374,670, 7,465,390, 7,744,759

GeoU1851 LEACHING TRENCH - PLAN VIEW

40" SECTIONS (TYP.)
20" (TYP.) SEE DETAIL A

GeoU1851 LEACHING SYSTEM

2" SCH. 40 ASTM D-1785 PVC PIPE

PRODUCT IDENTIFICATION MARKING

ASTM C-33 SAND OR APPROVED EQUIVALENT

51" 25.5" 12.75" 12.75"

INLET END

LENGTH OF LEACHING FIELD

GeoMat Edge U-Shape Leaching System
Geomatrix Systems, LLC, 114 Mill Rock Rd. E. - Old Saybrook, CT 06475 (860) 510-0730

DRAWING SCALE: 1"=1'
0   .5   1   2 Ft

DATE:	4/7/2011	REVISIONS:
DRAWN BY:	SMM	ACAD No. GeoU 1851 Plan View.DWG
APPROVED BY:		SHEET No. 1 OF 1

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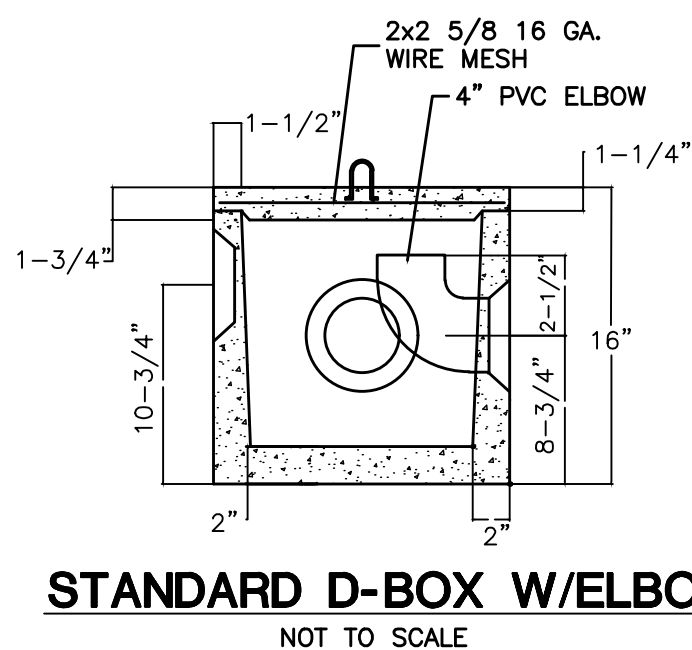

SELECT FILL

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER. SELECT FILL EXCEEDING 6% PASSING THE #200 SIEVE BASED ON A WET SIEVE TEST CANNOT BE APPROVED BY THE DESIGN ENGINEER.
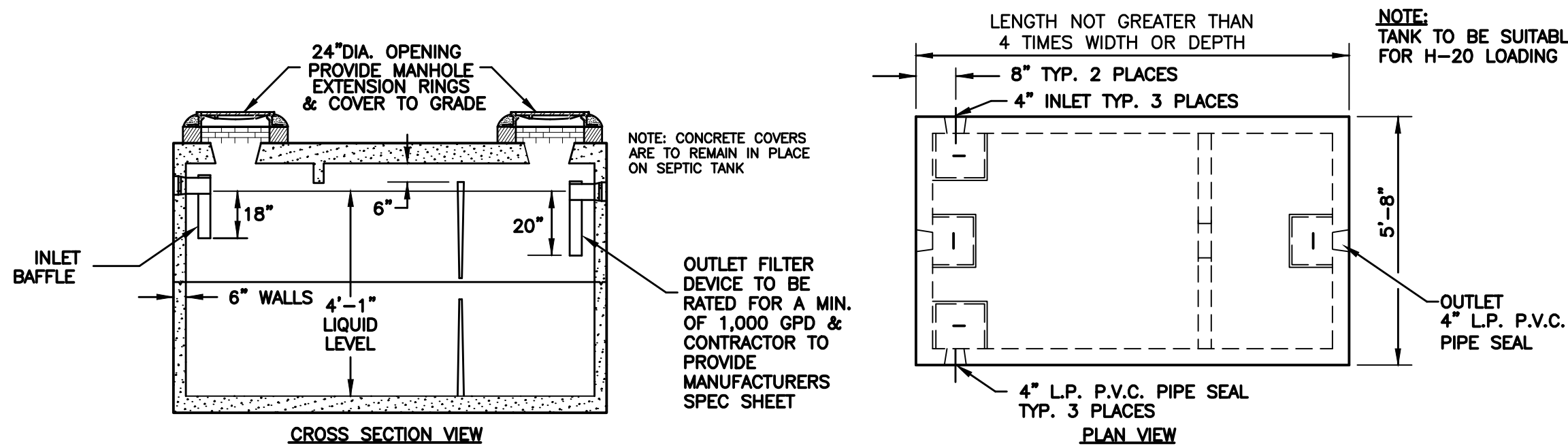
1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THEN THREE (3) INCH SIEVE.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. NOTE: THIS IS THE GRAVEL PORTION OF THE SAMPLE.
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA.

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50	10-75
#100	0-20	0-5
#200	0-5	0-2.5

PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THEN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%. THE SELECT FILL MUST BE TESTED AFTER PLACEMENT AND MUST HAVE A PERCOLATION RATE AT LEAST AS FAST AS THE DESIGN RATE OF LESS THAN 10 MIN/INCH

STANDARD D-BOX W/ELBOW
NOT TO SCALE

2x2 5/8 16 GA. WIRE MESH
4" PVC ELBOW
1-1/2" 1-1/4" 1-3/4" 8-3/4" 16" 10-3/4" 2"

1,000 GALLON SEPTIC TANK
NOT TO SCALE

24"DIA. OPENING PROVIDE MANHOLE EXTENSION RINGS & COVER TO GRADE

NOTE: CONCRETE COVERS ARE TO REMAIN IN PLACE ON SEPTIC TANK

INLET BAFFLE

18" 6" 20" 6" WALLS 4'-1" LIQUID LEVEL

OUTLET FILTER DEVICE TO BE RATED FOR A MIN. OF 1,000 GPD & CONTRACTOR TO PROVIDE MANUFACTURERS SPEC SHEET

CROSS SECTION VIEW

LENGTH NOT GREATER THAN 4 TIMES WIDTH OR DEPTH

NOTE: TANK TO BE SUITABLE FOR H-20 LOADING

8" TYP. 2 PLACES
4" INLET TYP. 3 PLACES
5'-8"

OUTLET 4" L.P. P.V.C. PIPE SEAL

4" L.P. P.V.C. PIPE SEAL TYP. 3 PLACES

PLAN VIEW

APPLICANT: JOHN DEMPSEY, HOMES R US LLC, 93 NORTH BURNHAM HWY, LISBON, CT

GREEN SITE DESIGN —LLC—
317 Main Street Norwich, Connecticut
(860) 892-1380 Fax (860) 886-9165

2 & 8 ENTERPRISE LANE, OAKDALE, CT

PVC DIRECT
REVISED SITE PLAN

SEPTIC DETAILS

No.	DATE	REVISION
3	3/21/25	REVIEW COMMENTS
2	3/14/25	REVIEW COMMENTS
1	3/5/25	REVIEW COMMENTS

Project No. GSD 66
Proj. Engineer E.M.B
Date: 1/30/25
Sheet No. **8**