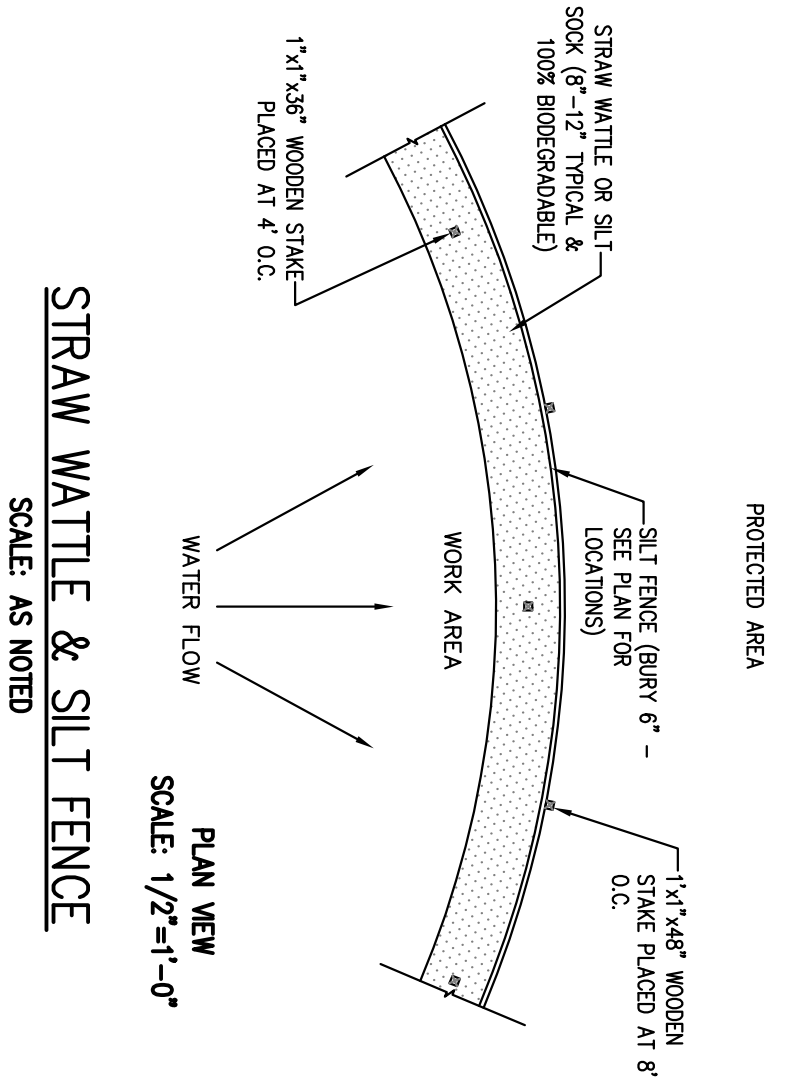
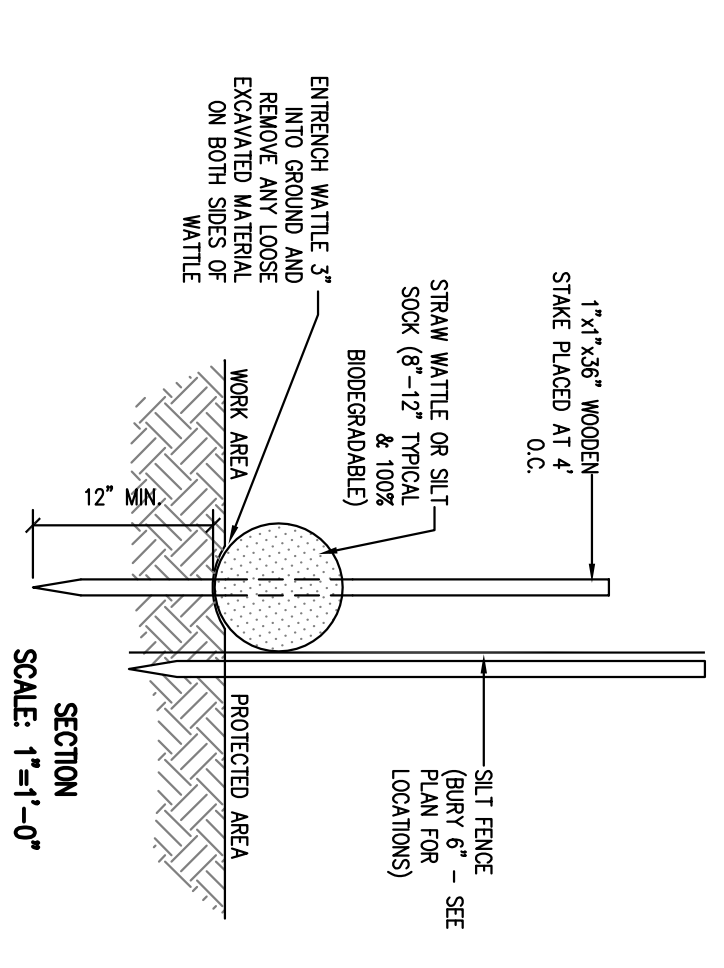


- NOTES:
1. IMPORTED GRAVEL USED AS BASE MATERIAL SHALL CONFORM TO MA DOT STANDARD SPECIFICATION M1030 TYPE B. IF BEST MATERIAL THAT IS HARD, DUREBLE STONE AND COARSE SAND, FREE FROM LOW AND CLAY, SURFACE CONTAMINS, AND RETENTIOUS MATERIALS.
 2. MATERIALS RESPONSIBILITIES FOR IMPORTED GRAVEL SHALL BE DETERMINED BY FOLLOWING:

SERE DESIGNATION:	#	PASSING:
NO. 4	100	40-75
NO. 10	80	10-20
NO. 20	60	5-10
 3. THE MAXIMUM SIZE OF STONE IN GRAVEL SHALL BE 3" LARGEST DIMENSION FOR M1030 TYPE B.
 4. ALL PAVEMENT SHALL HAVE A CONTINUOUS LONGITUDINAL SLOPE OR SHALL BE CROSS SLOPED TO ADEQUATELY SHED SURFACE WATER.

TYPICAL PAVEMENT CROSS SECTION
SCALE: 1"=1'-0"



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

DESIGN CRITERIA

TYPE OF BUILDING	EXISTING RESIDENTIAL
2 BEDROOMS	2 BEDROOMS
FOUNDATION TYPE: FULL C/O	FOUNDATION TYPE: FULL C/O
PERC RATE: 14 WPI	PERC RATE: 14 WPI
SOIL GROUP (1-4): 2	SOIL GROUP (1-4): 2
GRADE CORNER: 30 FT	GRADE CORNER: 30 FT
PIPE ROW LENGTH: 120 FT	PIPE ROW LENGTH: 120 FT
EMBO-SERVICE PIPE ROW: 120 FT	EMBO-SERVICE PIPE ROW: 120 FT
USE C/O TO C/O SPACING: 120 FT	USE C/O TO C/O SPACING: 120 FT
NUMBER OF SECTIONS: 1	NUMBER OF SECTIONS: 1
NUMBER OF ROWS PER SECTION: 4	NUMBER OF ROWS PER SECTION: 4
MIN SAND AREA REQ'D: 400 SQ FT	MIN SAND AREA REQ'D: 400 SQ FT
SYSTEM SAND WIDTH: 12.75 FT	SYSTEM SAND WIDTH: 12.75 FT
BOTTOM ELEVATION OF EMBO-SERVICE PIPE = 228.50	BOTTOM ELEVATION OF EMBO-SERVICE PIPE = 228.50
SYSTEM SAND (-3') BEYOND HIGHEST ROW = 1.1 FT	SYSTEM SAND (-3') BEYOND HIGHEST ROW = 1.1 FT
MATERIAL COVER OVER EMBO-SERVICE PIPES = 10 INCHES	MATERIAL COVER OVER EMBO-SERVICE PIPES = 10 INCHES
CENTER-TO-CENTER PIPE SPACING = 3.75 FT	CENTER-TO-CENTER PIPE SPACING = 3.75 FT
NUMBER OF ROWS = 4 ROWS	NUMBER OF ROWS = 4 ROWS
SEPARATION DISTANCE TO GROUNDWATER DROP IN ELEVATION FROM PIPE TO PRE = 0.00 FT	SEPARATION DISTANCE TO GROUNDWATER DROP IN ELEVATION FROM PIPE TO PRE = 0.00 FT
BOTTOM ELEVATION OF SYSTEM SAND (-3') = 228.00 FT	BOTTOM ELEVATION OF SYSTEM SAND (-3') = 228.00 FT
TOTAL SYSTEM SAND (-3') WIDTH = 12.75 FT	TOTAL SYSTEM SAND (-3') WIDTH = 12.75 FT

PROPOSED COMPONENT ELEVATIONS

PROPOSED INVERT AT FOUNDATION	207.00
INVERT AT TANK INLET	208.75
INVERT AT FANP CHAMBER IN	208.25
INVERT AT FANP CHAMBER OUT	205.75
INVERT AT TANK OUTLET	227.18

FIELD ELEVATIONS

ROW #	1	2	3	4
FINISH GRADE (SYSTEM SLOPE = 0%)	228.33	228.33	228.33	228.33
EMBO-SERVICE PIPE	227.50	227.50	227.50	227.50
4\"/>				
BOTTOM OF SYSTEM SAND	228.00	228.00	228.00	228.00

CONVENTIONAL SIZING REQUIREMENT COMPLIANCE

LEADING AREA REQUIRED UNDER TITLE 5: (220 GPD)/(0.56 GPD/S.F.) = 392.9 S.F. (PRESSURE SYSTEMS ARE REQUIRED TO BE NO LESS THAN 60% OF THE AREA OF A PIPE AND ADEQUATE SYSTEM AND NO LESS THAN 400 S.F.)

408 S.F. PROVIDED > (392 S.F.)/(60%)

408 S.F. PROVIDED > 235 S.F. REQ'D

SOIL TESTING

DATE PERFORMED: 12/17/19	DR: SHEILEY HILL TORREN	WINNEX KAREN GONZALEZ
DH-1		
SURFACE	A 0-16	LOT/LES 0 60"
L 10M3/3	B 16-24	NO W/W/R/
S 10M5/6	BC 24-30	
LS 10M3/6	CI 30-60	
S/S 23M/3	CS 60-95	
SS 23M/4		
NO W/W/R/		
DH-2		
SURFACE	A 0-16	LOT/LES 0 64"
L 10M3/3	B 16-24	NO W/W/R/
S 10M5/6	BC 24-30	
LS 23M/3	CI 30-64	
SS 23M/4	CS 64-97	
NO W/W/R/		
DH-3		
SURFACE	A 0-9	LOT/LES 0 61"
L 10M3/3	B 9-28	NO W/W/R/
S 10M5/6	BC 28-61	
LS/S 10M3/6	CI 28-61	
SS 23M/3	CS 61-72	
NO W/W/R/		

PERC TEST

DATE PERFORMED: 12/17/19	DR: SHEILEY HILL TORREN	WINNEX KAREN GONZALEZ
PERC RATE: #1 - ABANDONED	#2 - 14 WPI	#3 - 4 WPI
1/7/20		

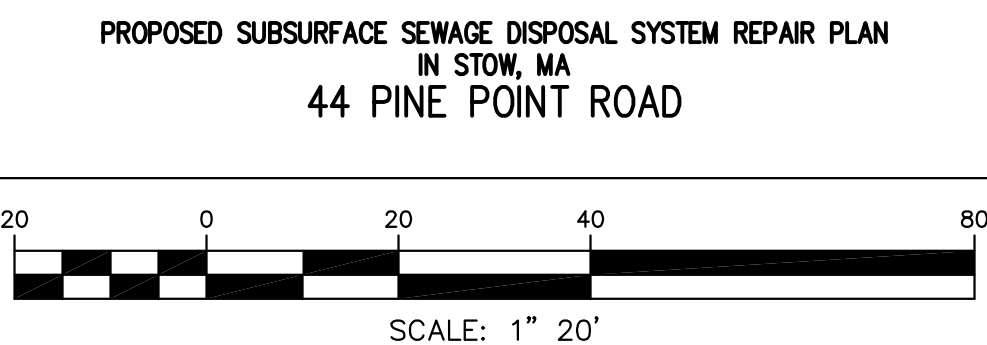
LEGEND

- EXIST. CONTOUR
- EXIST. SPOT GRADE
- PROPOSED FINISH GRADE
- PROPOSED SPOT GRADE



OWNER:
FRANS & MARY JANE CRAMER
57 FLINT DRIVE
MARLBOROUGH, MA 01752

APPLICANT:
FRANS & MARY JANE CRAMER
57 FLINT DRIVE
MARLBOROUGH, MA 01752



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