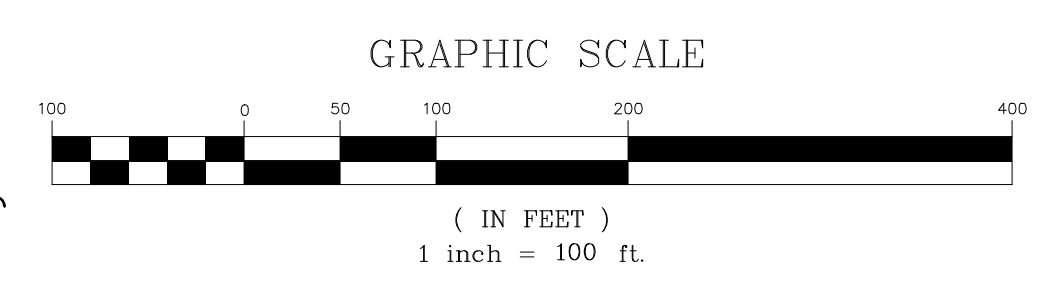




LEGEND

- STONE WALL
- PROPERTY LINE
- STREET LINE
- DRILL HOLE SET
- DRILL HOLE FOUND
- MONUMENT FOUND
- IRON PIPE FOUND
- EDGE OF WETLANDS & FLAG
- UTILITY POLE
- EXPOSED LEDGE



Existing Buildings Impervious Areas & Gravel Roads

Drainage Area A - 30.8 ac -(Parcels 56, 57 & 58)

2 Building to be removed roof area	1,750 sf
6 Deck/Tent Platforms to be removed	3,000 sf
Impervious Area	4,750 sf

Gravel Roads to be removed 13,000 sf

Buildings to remain Parcel 55

7 building Roof Area	9,654 sf
19 Deck/Tent Platforms Area	4,550 sf

Drainage Area B 13.5 ac -(Parcels 50, 51, 52, 53, & 54)

7 Building to be removed roof area	3,681 sf
10 Deck/Tent Platforms to be removed	5,144 sf
Impervious Area	8,830 sf

Gravel Road area to be removed 46,472 sf

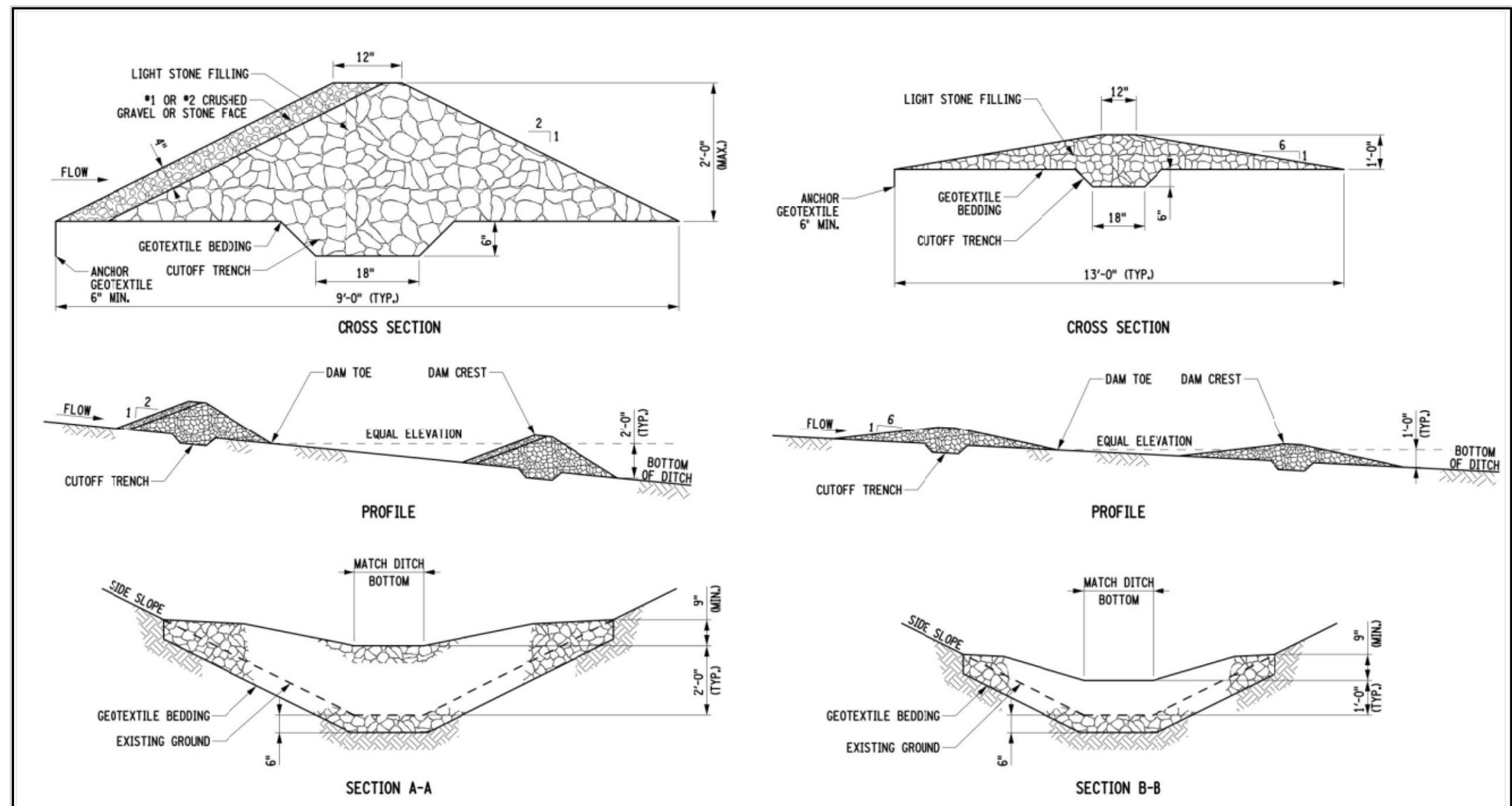
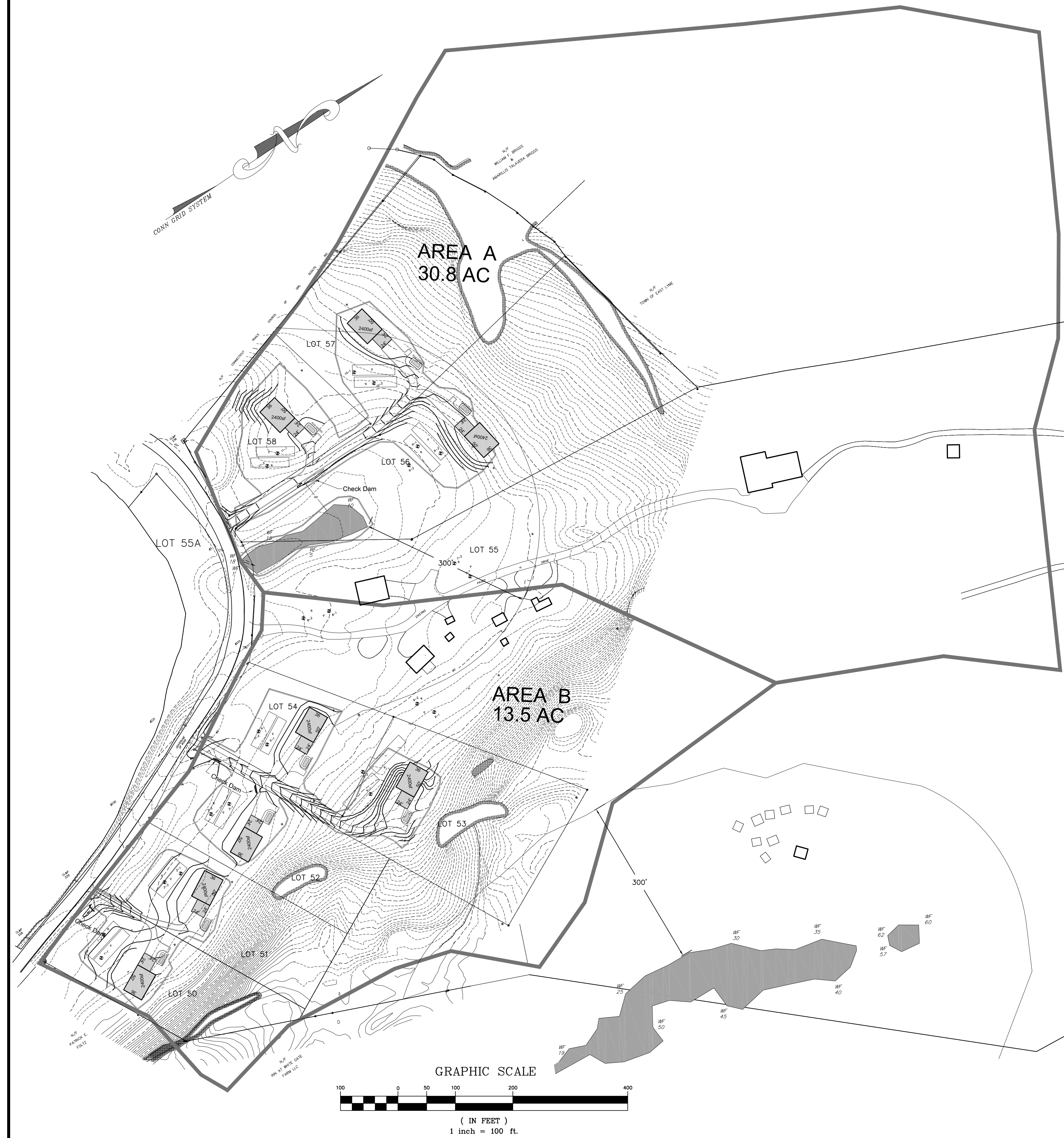
NOTE Shaded Building are planned to be removed

May Engineering LLC
Civil Engineering and Site Planning
1297 RT 163 Oakdale, CT 06370
860 884-9671

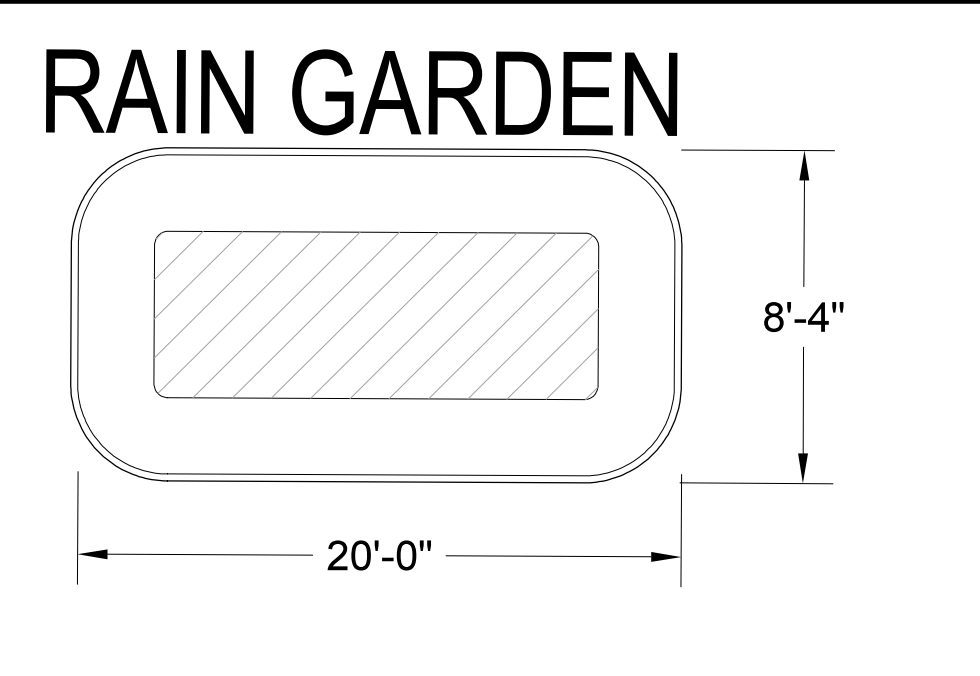
Project
Nottingham Hills Subdivision Phase V
121 Upper Pattagansett Rd.
East Lyme, CT. 06333

Plan of Subdivision Showing Existing Buildings and Roads
SCALE: 1" = 100'
DATE: 11 October 2021
JOB NUMBER SHEET

DESCRIPTION: Plan showing existing building to be removed and the Proposed parcel layout. Also gravel road impervious areas

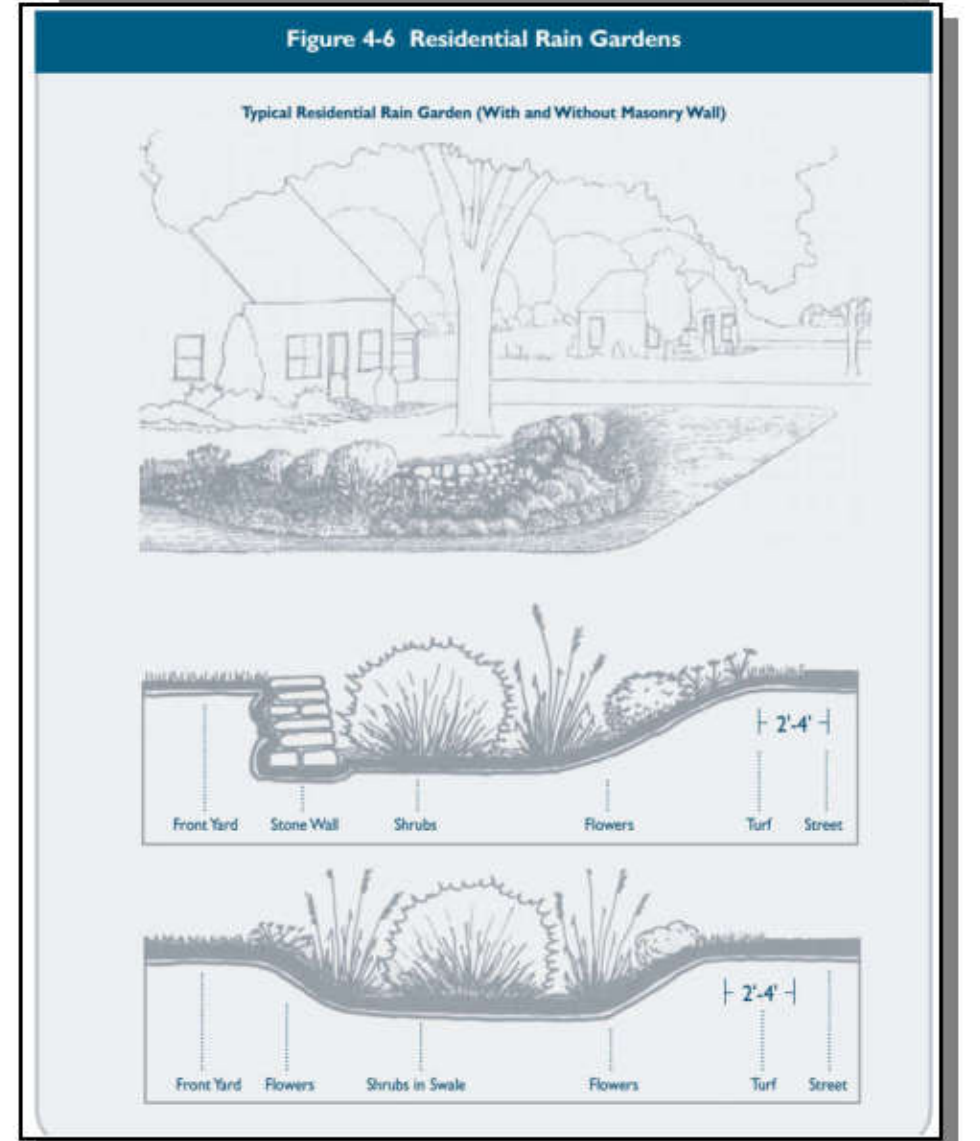
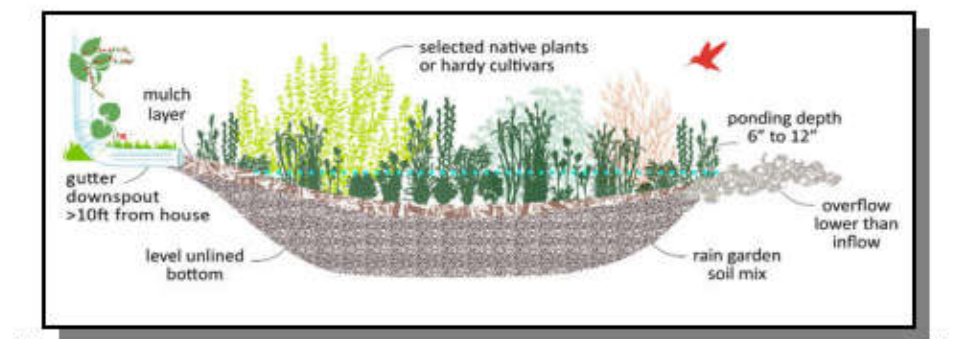


CHECK DAM DETAIL



Water Quality Volume rainfall event 1" WQV rainfall

where:
 P = design precipitation, inches (1" for water quality storm)
 A = drainage area (acres) roof area 2,400 sf >> 0.055 ac
 V = runoff volume CF
 $V = (1" / 12") \times 2,400 \text{ sf} = 200 \text{ CF}$
 Rain Garden size 10-foot wide X 20-foot long x 1-foot deep = 200CF



- APPLICATION NOTES:
- THE PRIMARY PURPOSE OF A CHECK DAM IS TO REDUCE EROSION IN A CHANNEL BY REDUCING FLOW VELOCITY IN THE CHANNEL.
 - CHECK DAMS WILL CAPTURE SEDIMENT THAT FALLS OUT OF SUSPENSION BEHIND THE UPSTREAM SIDE OF THE CHECK DAM DUE TO DECREASED VELOCITY.
 - CHECK DAMS ARE NOT INTENDED TO, AND WILL NOT FILTER SEDIMENT FROM TURBID WATER.
 - SLOPES EXCEEDING 10% SHALL INCLUDE A CHANNEL PROTECTIVE LINING.
 - PERMANENT STONE CHECK DAMS LOCATED WITHIN THE ESTABLISHED ROADWAY CLEAR ZONE SHALL BE IN CONFORMANCE WITH CTDOT ROADSIDE DESIGN GUIDANCE.

- GENERAL NOTES:
- MAXIMUM DRAINAGE AREA CONTRIBUTING TO TEMPORARY STONE CHECK DAM SHALL BE 2 ACRES. MAXIMUM DRAINAGE AREA CONTRIBUTING TO PERMANENT STONE CHECK DAM SHALL BE 1 ACRE.
 - MEASURES SHALL BE INSPECTED EVERY (7) CALENDAR DAYS OR AFTER EACH RAINFALL OF 1/2" OR MORE WITHIN A 24 HOUR PERIOD. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
 - SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
 - COARSE AGGREGATE FACING MATERIAL FOR THE STONE CHECK DAM SHALL MEET THE GRADATION REQUIREMENTS OF SIZE DESIGNATION #1 OR #2 OF TABLE 703-4. STONE FILLING CORE MATERIAL FOR THE STONE CHECK DAM SHALL MEET THE GRADATION REQUIREMENTS OF LIGHT STONE FILLING.

DITCH SLOPE	STONE CHECK DAM PLACEMENT INTERVAL	
	TEMPORARY CHECK DAM PLACEMENT INTERVAL (BASED ON 2' HEIGHT)	PERMANENT CHECK DAM PLACEMENT INTERVAL (BASED ON 1' HEIGHT)
1 %	200'	100'
2 %	100'	50'
3 %	67'	33'
4 %	50'	25'
5 %	40'	20'
6 %	33'	17'
8 %	25'	-
10 %	20'	-

• $I = H / S$
 WHERE:
 I = CHECK DAM SPACING INT'
 H = CHECK DAM HEIGHT
 S = CHANNEL SLOPE

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PROPOSED BUILDING
 SCALE: 1" = 100' & as noted
 DATE: 10 OCT 2021
 JOB NUMBER SHEET
 1 of 1

DESCRIPTION: Building Lot Development and Grading Rain Garden Location and Drainage