EARTH FILLING PLAN

12 OAK KNOLL ROAD WORCESTER, MA 01609

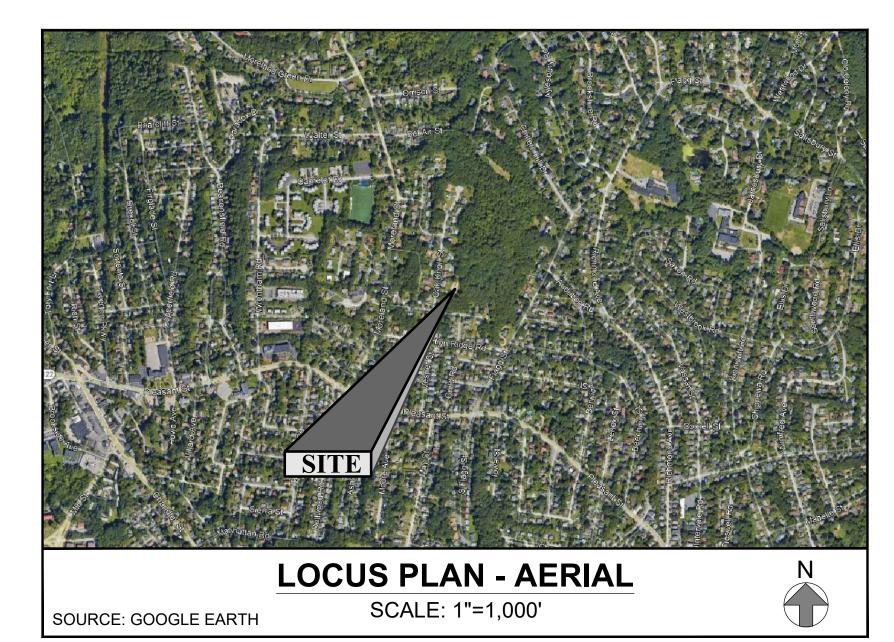
SHEET INDEX

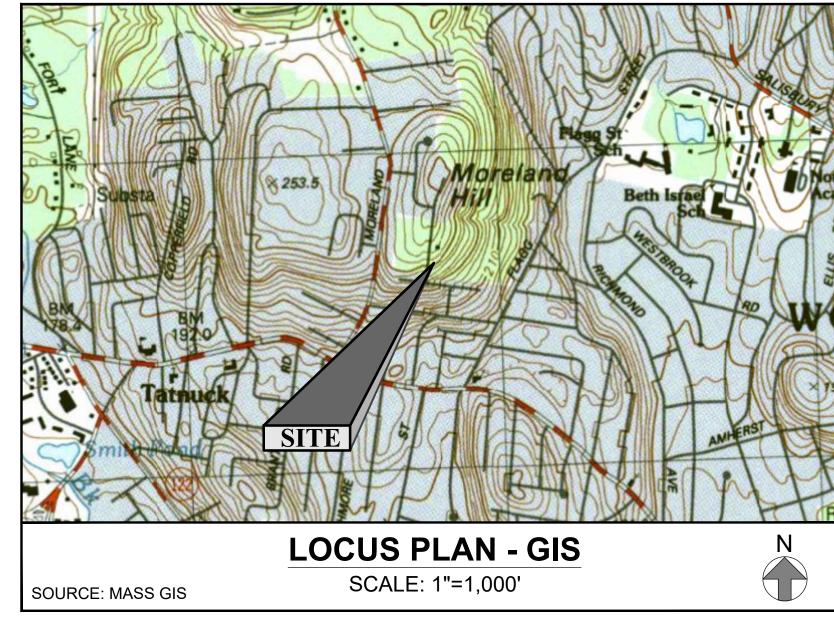
No.TitleIssue DateC001Cover SheetSeptember 30, 2024C101Earth Fill PlanSeptember 30, 2024



REVISIONS/ISSUES

No.	Note	Date			
1	Issued for Permitting	February 7, 2024			
2	Revised per Staff Comments	April 10, 2024			
3	Revised per ZBA Comments	September 30, 2024			





OWNER

Marguerite Mullaney
12 Oak Knoll Road
Worcester, MA 01609

APPLICANT

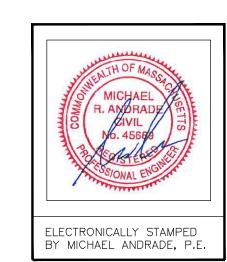
Frank Deboise & Marguerite Mullaney

12 Oak Knoll Road

Worcester, MA 01609



100 GROVE STREET | WORCESTER MA 01605 T 508-856-0321 | F 508-856-0357 gravesengineering.com



GENERAL NOTES

STREET ADDRESS: 12 OAK KNOLL ROAD, WORCESTER, MA 01609

±36,081 SQ. FT. (0.8283 AC.)

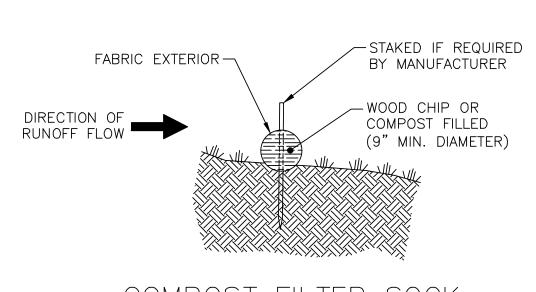
WORCESTER, MA 01609

MULLANEY, MARGUERITE P ZONE: RS-10 12 OAK KNOLL ROAD

1) THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY FINDINGS SUCH A REPORT MIGHT DISCLOSE.

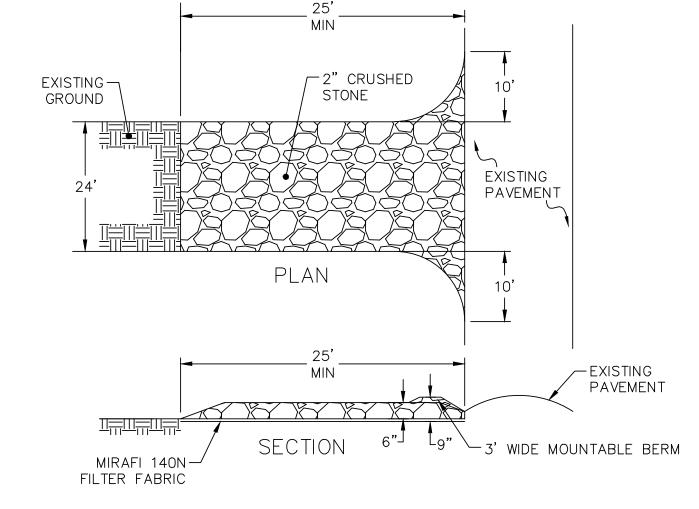
- 2) LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON THE FIELD LOCATION OF VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER GATES, ETC. IN ACCORDANCE WITH CHAPTER 82 SECTION 40 INCLUDING AMENDMENTS, ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE AT 811. THE CITY OF WORCESTER DPW SHALL ALSO BE CONTACTED FOR UTILITY MARKOUTS.
- 3) TOPOGRAPHIC FEATURES ON THIS PLAN ARE BASED ON AN INSTRUMENT SURVEY PERFORMED BY GRAVES ENGINEERING, INC. ON DECEMBER, 27 2023. SURVEY NOTES ARE RECORDED IN SURVEY BOOK S-50, PAGE 28. PROPERTY LINE DATA WAS COMPILED FROM GIS AND SHALL BE CONSIDERED APPROXIMATE.
- 4) THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88; SEE PLANS FOR PROJECT BENCHMARK. HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE COORDINATE SYSTEM. DATUMS ARE AS ESTABLISHED BY GPS METHODS.
- 5) FEATURES NOT LOCATED IN THE FIELD WERE COMPILED VIA GIS (BACK OF BUILDINGS, CATCH BASINS,
- 6) THE SITE PROPERTY IS NOT LOCATED WITHIN ANY DESIGNATED SPECIAL FLOOD ZONES AS SHOWN ON FIRM MAP 25027C0614E, DATED JULY 4, 2011.

DEED BOOK/PAGE: 14920/0211 (WORCESTER REGISTRY OF DEEDS) ASSESSORS REFERENCE: 25/001/00008

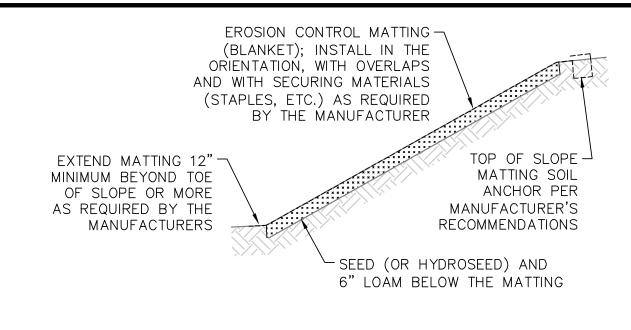


COMPOST FILTER SOCK NTS

1) PROVIDE A 3' TO 6' LEVEL AREA BETWEEN THE SILT SOCK AND THE TOE OF ANY SLOPE TO PROVIDE AREA FOR SEDIMENT ACCUMULATION.



STABILIZED CONSTRUCTION ENTRANCE NTS



EROSION CONTROL BLANKET SLOPE STABILIZATION

1) EROSION CONTROL MATTING (BLANKETS) SHALL BE INSTALLED ON ALL FINISHED SLOPES SHOWN EQUAL TO OR EXCEEDING A 3:1 SLOPE (33.5%).

- 2) INSTALLATION SHALL STRICTLY FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
- 3) UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS FOR A PARTICULAR LOCATION AND APPLICATION, ACCEPTABLE EROSION CONTROL BLANKETS FOR GENERAL SLOPE STABILIZATION ARE: ERONET SC150 BY NORTH AMERICAN GREEN, CURLEX II BY AMERICAN EXCELSIOR COMPANY, OR LANDLOK C2 BY PROPEX (OR ENGINEER APPROVED EQUAL).

GENERAL SEQUENCE OF CONSTRUCTION

THE FOLLOWING IS INTENDED TO PROVIDE A GENERAL SEQUENCE OF CONSTRUCTION AND IS SUBJECT TO CHANGE BASED ON CONTRACTOR'S SCHEDULE AND MEANS AND METHODS OF CONSTRUCTION

- 1) INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- 2) INSTALL PERIMETER AND INTERMEDIATE SEDIMENT CONTROLS.
- 3) CONDUCT ROUGH BULK GRADING (CUTS AND FILLS) AND APPLY COMPACTION FOR EVERY 1 TO 2 FEET OF FILL PLACED. COMPACTION MAY VARY BASED UPON CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION. (E.G. BUCKET TAMPING, BULLDOZER TRACKING, PLATE COMPACTOR, VIBRATORY ROLLER, ETC.)

VOLUME

(CUBIC YARDS)

±1,300

±112

±112

 $\pm 1,412$

4) LOAM AND SEED, INSTALL EROSION CONTROL BLANKETS.

LEGEND

CATCH BASIN (CB)

CONIFEROUS (CON.)

SPOT ELEVATION

--790-- 2015 LIDAR DATA CONTOURS

— **790** — PROPOSED CONTOURS

2015 LIDAR VS SURVEY 12/27/23 DATA*

SURVEY 12/27/23 DATA VS PROPOSED

FILL NEEDED TO COMPLETE PER THIS

PLAN

TOTAL FILL

-790- EXISTING CONTOURS (12/27/23)

TREE, SIZE, DECIDUOUS (DEC.),

ZONE (LOCAL ORDINANCE)

100 FOOT STORMWATER PROTECTION

EARTH FILL CALCULATIONS

* 2015 LIDAR TOPOGRAPHY WAS USED TO GENERATE THE PRE-EXISTING

SITE TOPOGRAPHY PRIOR TO EARTH FILLING OPERATIONS.

— SF — SILT FENCE

. TREE LINE

---LOW--- LIMIT OF WORK

5) REMOVE PERIMETER SEDIMENT CONTROLS ONLY WHEN UPGRADIENT AREAS ARE FULLY STABILIZED

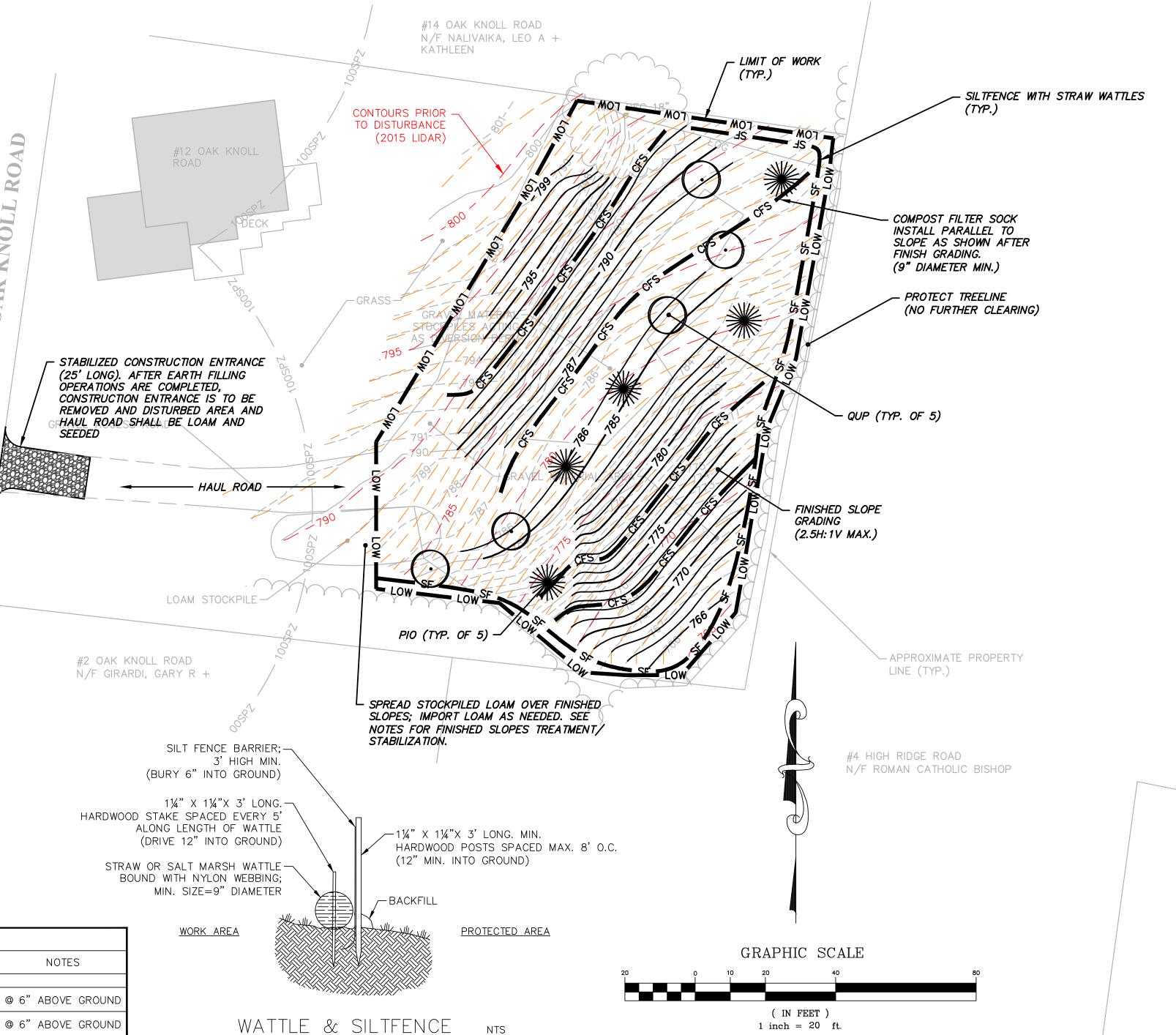
1) PROVIDE POSITIVE DRAINAGE IN ALL FINISH GRADED WORK AREAS.

5) THE CONTRACTOR SHALL EMPLOY ANY AND ALL EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT A RELEASE OF SEDIMENT FROM THE SITE.

SHEET NOTES

- 2) FINISHED SLOPES EQUAL TO OR STEEPER THAN A 3H TO 1V SLOPE SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS AND SEEDED WITH WILDLIFE/ CONSERVATION SEED MIX (NEW ENGLAND WETLAND PLANTS, INC. OR EQUAL); SEE DETAIL THIS SHEET. THE SLOPES SHALL NOT BE MOWED AND BE ALLOWED TO RE-FOREST.
- 3) ALL OTHER DISTURBED AREAS NOT OTHERWISE SPECIFIED SHALL BE TREATED WITH AT LEAST 4 INCHES OF LOAM AND HYDROSEEDED. RE-SEED AS NECESSARY TO ESTABLISH FULL STABILIZATION.
- 4) MATERIAL STAGING AND STOCKPILE LOCATIONS (STRIPPED LOAM, FILL MATERIALS, ETC.) SHALL BE RINGED WITH SILTFENCE.

6,) SFD	IMFNT AND	EROSION CONTROLS SHALL BE	INSTALLED PRIOR TO THE	START OF	N/F GIRAI	RDI, GARY R +		
$\neg \mid $	•		L SITE WORK.	THO THE			2 ¹		TOCKPILED LOAM OVER FINISH MPORT LOAM AS NEEDED. SEI
7)	•		FILL MATERIAL MUST BE C '. INVASIVE SPECIES SHALL BE 1		TED SOIL		SILT FENCE BARRIER;—		R FINISHED SLOPES TREATME
8)) EXIS	STING FILL IS	S FROM <u>54 MILLBROOK STREET,</u>	WORCESTER MA 01606.			3' HIGH MIN. (BURY 6" INTO GROUND)		
9)	•		TILLING SHOWN ON THIS PLA FALL 2024.	N AND STABILIZATION S	SHALL BE	HARDWOO	1¼" X 1¼"X 3' LONG.— DD STAKE SPACED EVERY 5' ALONG LENGTH OF WATTLE		x 1¼"X 3' long. min.
10	,		TOR SHALL UTILIZE EFFECTIVE TION AND SITE STABILIZATION.	WATERING PRACTICES TO) ENSURE		(DRIVE 12" INTO GROUND) AW OR SALT MARSH WATTLE— OUND WITH NYLON WEBBING; MIN. SIZE=9" DIAMETER	HARD	WOOD POSTS SPACED MAX. 8 MIN. INTO GROUND)
╛┌			PLA	NTING LIST			WORK AREA		PROTECTED AREA
С	ODE	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTES			<u> </u>
	ADE TR	PEES	ı						·
(QUP	5	QUERCUS PALLUSTRIS	PIN OAK	2.5-3" CAL	. @ 6" ABOVE GROUND			
	PIO	5	PICEA OMORIKA	SERBIAN SPRUCE	2.5-3" CAL	. @ 6" ABOVE GROUND	WATTLE	& SILTFEN	CE NTS
							NOTE: 1) PROVIDE A 3' TO 6' L TOE OF ANY SLOPE TO		THE WATTLE AND THE SEDIMENT ACCUMULATION.





July 1	CA V	/60 E	2 04/	1 02/	NO. D	AMPED
		09/30/24	04/10/24	02/07/24	DATE	
		MRA	DFS	DFS	ВУ	
		REVISED PER ZBA COMMENT	REVISED PER STAFF COMMEN	ISSUED FOR PERMITTING	DESCRIPTION	



C101