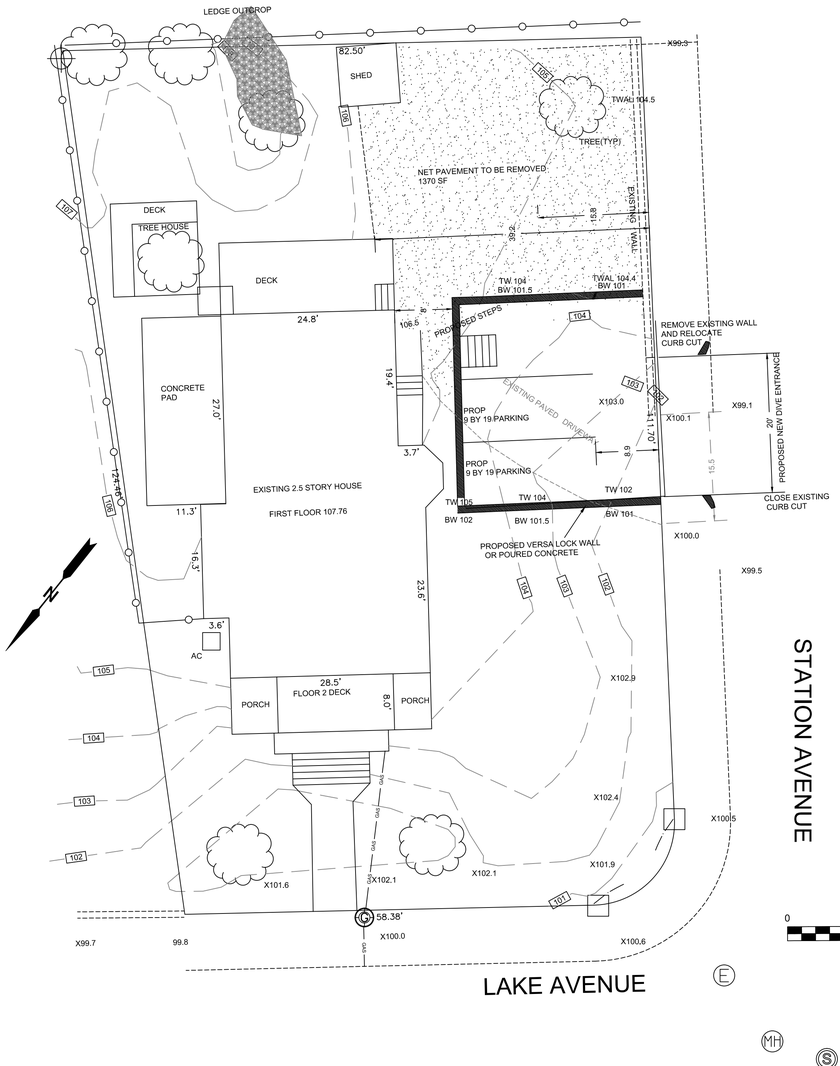


STATION AVENUE

0 10 20 30

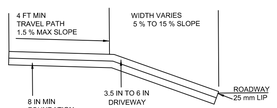
LOT AREA 9425 SF
LOT COVER 19.6 % (1852 SF)

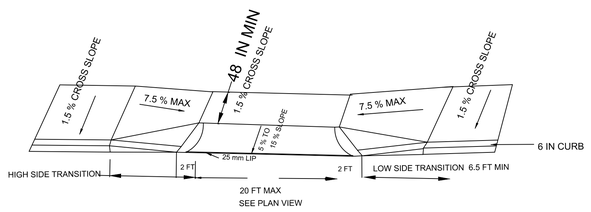
EXISTING OPEN SPACE : 65.3 % (3268 SF)

PROPOSED OPEN SPACE 77.3 % (7520 SF)

(1131 SF REDUCTION IN IMPERVIOUS AREA)

DRIVEWAY DETAIL





PROPOSED GRANITE CORNERS, GRANITE CURBING AND CONCRETE APRON WILL BE CONSTRUCTED PER CITY SPECIFICATIONS

INSTALLATION NOTES

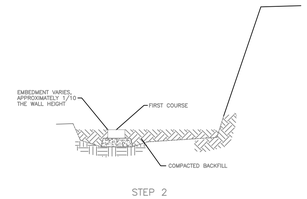
- STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
- BENCH CUT ALL EXCAVATED SLOPES.
- DO NOT EXCAVATE BEYOND EXCAVATION LINES SHOWN ON PLAN UNLESS DIRECTED BY SITE SOILS ENGINEER TO REMOVE UNSUITABLE SOIL.
- CONTRACTOR SHALL ENSURE TEMPORARY EXCAVATIONS ARE STABLE AND PROVIDE EXCAVATION SUPPORT IF NEEDED.
- SITE SOILS ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN PARAMETERS.
- LEVELING PAD SHALL CONSIST OF WELL GRADED ROAD BASE AGGREGATE, 3/4" CRUSHED, ANGULAR GRAVEL WITH SOME FINES
- CONTRACTOR MAY OPT FOR A LEAN CONCRETE LEVELING PAD. PAD SHALL BE UNREINFORCED LEAN CONCRETE, 200–300 PSI, 3" THICK MAXIMUM.
- DRAINAGE AGGREGATE SHALL CONSIST OF CLEAN ANGULAR GRAVEL, 3/4" DIAMETER WITH LESS THAN 5% FINES.
- DRAINAGE PIPE SHALL BE PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE.
- REINFORCED BACKFILL SHALL BE FREE OF DEBRIS, ORGANIC SOIL, AND EXPANSIVE SOILS.
- FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPACTED.
- COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. (ASTM D–698)
- COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER.
- COMPACTION WITHIN 3FT. OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.
- CONTRACTOR SHALL SLOPE SITE GRADES TO DIRECT SURFACE RUNOFF AWAY FROM WALL AT END OF EACH DAY TO AVOID WATER DAMAGING THE WALL WHILE UNDER CONSTRUCTION.
- ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.
- FOLLOW APPLICABLE PROVISIONS OF THE WALL UNIT AND GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
- IF SITE AND SOIL CONDITIONS, WALL GEOMETRY, OR WALL LOADINGS ARE DIFFERENT THAN IN THE DRAWINGS AND THE DESIGN PARAMETERS, THE CONTRACTOR MUST CONTACT DESIGN ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.

CONSTRUCTION SEQUENCE

- VERIFY LOCATION OF EXISTING STRUCTURES AND UTILITIES.
- EXCAVATE AREA LARGE ENOUGH TO ACCOMMODATE LEVELING PAD, REQUIRED UNIT EMBEDMENT, AND REQUIRED GEOGRID LENGTHS.
- PROOF ROLL AND COMPACT EXCAVATED FOUNDATION AREA.

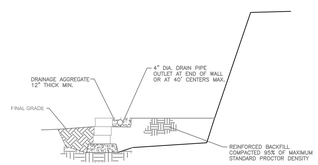
STEP 1

- PLACE LOWEST COURSE OF WALL UNITS ON LEVELING PAD, SETTING UNIT SIDES AGAINST ADJACENT UNITS.
- LEVEL UNITS SIDE–TO–SIDE, FRONT–TO–REAR, AND WITH ADJACENT UNITS.
- CHECK ALIGNMENT ALONG BACK OF UNITS.
- PLACE AND COMPACT BACKFILL IN FRONT AND BEHIND UNITS TO BE EMBEDDED BELOW FINAL GRADE.



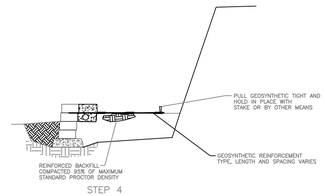
STEP 2

- PLACE NEXT COURSE OF UNITS. INSERT TWO CONNECTION PINS THROUGH TWO OF THE FOUR CENTER HOLES OF THE UPPER COURSE UNITS INTO THE CENTER SLOTS OF THE LOWER COURSE UNITS.
- CHECK LEVEL AND ALIGNMENT OF UNITS.
- CONTINUE PLACING COURSES OF UNITS AND COMPACTING BACKFILL IN FRONT OF AND BEHIND UNITS UNTIL REACHING HEIGHT OF FINAL GRADE IN FRONT OF WALL.
- BEGINNING JUST ABOVE THE FINAL GRADE IN FRONT OF WALL, PLACE DRAINAGE AGGREGATE BEHIND THE UNITS TO REQUIRED THICKNESS.
- INSTALL DRAINAGE COLLECTION PIPES AT BASE OF DRAINAGE AGGREGATE, WITH PERFORATION OR SLOTS FACING DOWN.
- SLOPE DRAIN PIPE TO ALLOW GRAVITY FLOW OF WATER TO OUTSIDE THE WALL SYSTEM, OUTLETTING PIPES AS REQUIRED.
- PLACE AND COMPACT REINFORCED BACKFILL BEHIND DRAINAGE AGGREGATE.



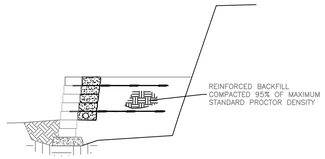
STEP 3

CONTINUE PLACING UNITS, DRAINAGE AGGREGATE AND REINFORCED BACKFILL, UNTIL REACHING HEIGHT OF GEOSYNTHETIC LAYER.
LAY THE REQUIRED LENGTH OF GEOSYNTHETIC HORIZONTALLY ON TOP OF THE UNITS, ENSURING HIGHEST STRENGTH DIRECTION OF GEOSYNTHETIC IS PERPENDICULAR TO WALL FACE.
PLACE NEXT COURSE OF UNITS ON TOP OF GEOSYNTHETIC AND PIN DOWN THROUGH GEOSYNTHETIC INTO UNITS BELOW.
PLACE DRAINAGE AGGREGATE BEHIND UNITS TO REQUIRED THICKNESS.
PULL BACK OF GEOSYNTHETIC TO REMOVE ANY WRINKLES OR LOOSENESS. DO NOT OVER TENSION.
USE STAPLES, STAKES, OR HAND TENSION TO KEEP GEOSYNTHETIC TAUT UNTIL BACKFILL IS PLACED ON TOP.



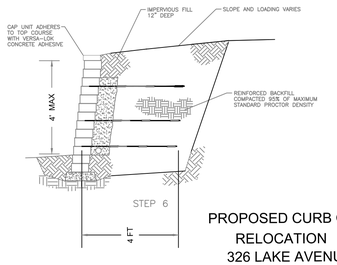
STEP 4

CONTINUE PLACEMENT OF WALL UNITS, GEOSYNTHETIC, DRAINAGE AGGREGATE AND REINFORCED BACKFILL BY REPEATING STEP 4 UNTIL WALL IS WITHIN ONE FOOT OF FINAL HEIGHT.
STACK NO MORE THAN THREE COURSES BEFORE BACKFILL IS PLACED BEHIND WALL.
COMPACT BACKFILL IN NO GREATER THAN 6" THICK LIFTS.



STEP 5

- PLACE AND COMPACT IMPERVIOUS SOIL BEHIND THE TOP 12 INCHES OF THE WALL.
- PLACE AND ALIGN CAP UNITS, WITH A SLIGHT OVERHANG, ON TOP COURSE.
- AFTER ENSURING PROPER ALIGNMENT, REMOVE AND THEN ADHERE CAPS WITH VERSA–LOK ADHESIVE.



STEP 6

PROPOSED CURB CUT
RELOCATION
326 LAKE AVENUE
NEWTON , MA.

SCALE: 1 IN = 10 FT

MAR 2, 2021
APRIL 20, 2021
APRIL 21, 2021
JUNE 13, 2021
JUNE 15, 2021

COMMONWEALTH OF MASSACHUSETTS
FRANK IEBBA
No. 33116
REGISTERED PROFESSIONAL ENGINEER

ESSEX ENG. & SURVEY
PO BOX 650217
WEST NEWTON, MA. 02465

617-797-7342

FRANK.JEBBA@GMAIL.COM