

SOIL RESTORATION NOTES REQUIRED ON PLANS SOIL DE-COMPACTION AND TESTING REQUIREMENTS

SOIL COMPACTION TESTING REQUIREMENTS

- SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN. SEE EXAMPLE SITE PLAN AT: [HTTP://WWW.NJ.GOV/AGRICULTURE/DIVISIONS/ANR/NRC/NRCSOIL.HTML](http://www.nj.gov/agriculture/divisions/anr/nrc/nrcsoil.html).
- COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE SOIL COMPACTION MITIGATION VERIFICATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT OR [HTTP://WWW.NJ.GOV/AGRICULTURE/DIVISIONS/ANR/NRC/NRCSOIL.HTML](http://www.nj.gov/agriculture/divisions/anr/nrc/nrcsoil.html). THIS FORM MUST BE FILLED OUT, AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
- IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

COMPACTION TESTING METHODS

- PROBING WIRE TEST (SEE DETAIL)
- HAND-HELD PENETROMETER TEST (SEE DETAIL)
- TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

PROCEDURES FOR SOIL COMPACTION MITIGATION

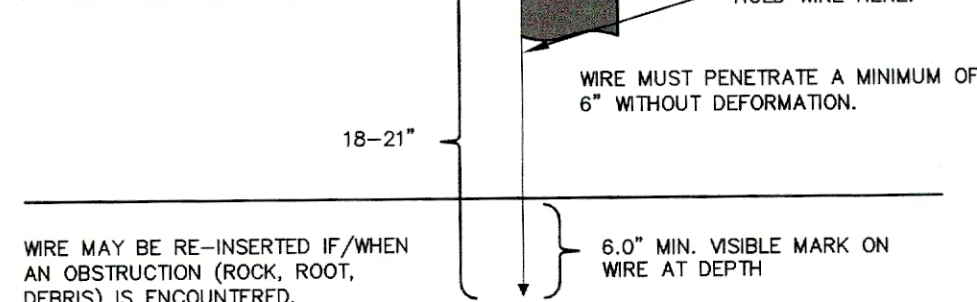
PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD, AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

EFFECTIVE DATE 12/7/2017

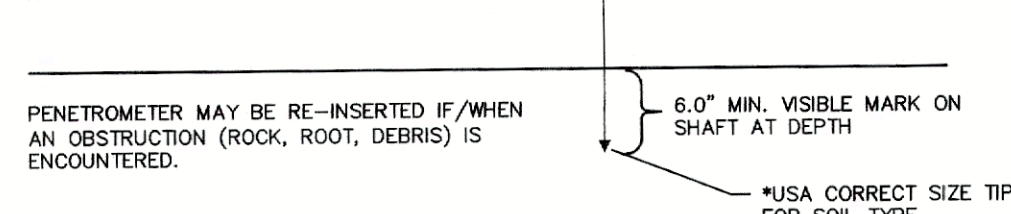
PROBING WIRE TEST- 15.5 GA STEEL WIRE (SURVEY FLAG)

NOTE: SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE WIRE.



HAND HELD SOIL PENETROMETER TEST

NOTE: SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE PROBE. PROBE MUST PENETRATE AT LEAST 6" WITH LESS THAN 300 PSI READING ON THE GAGE.



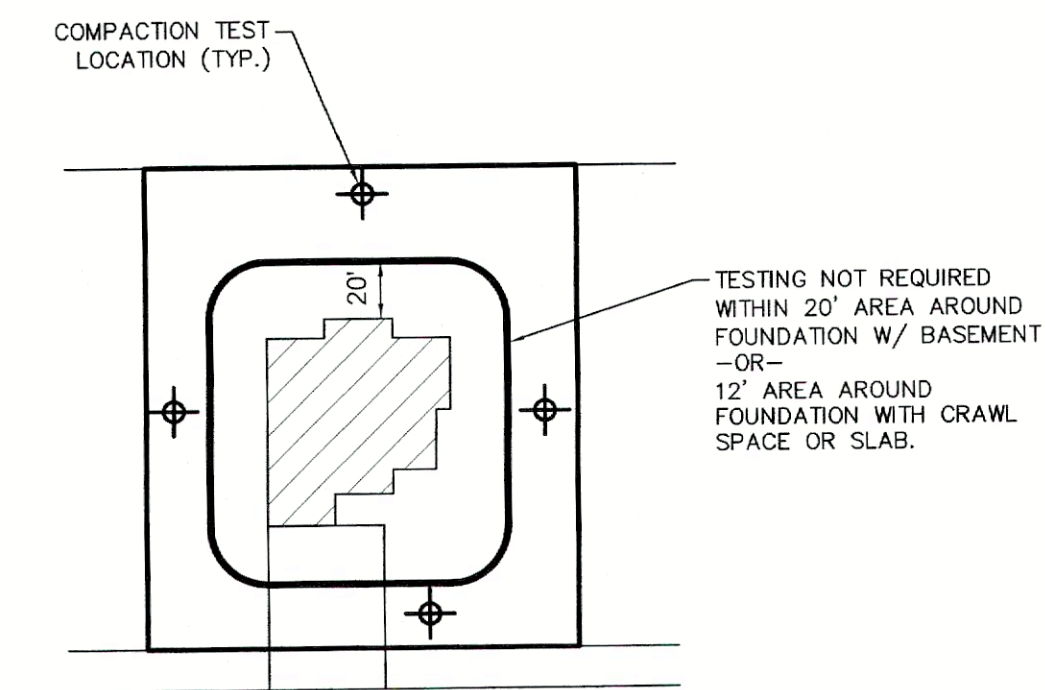
LEGEND



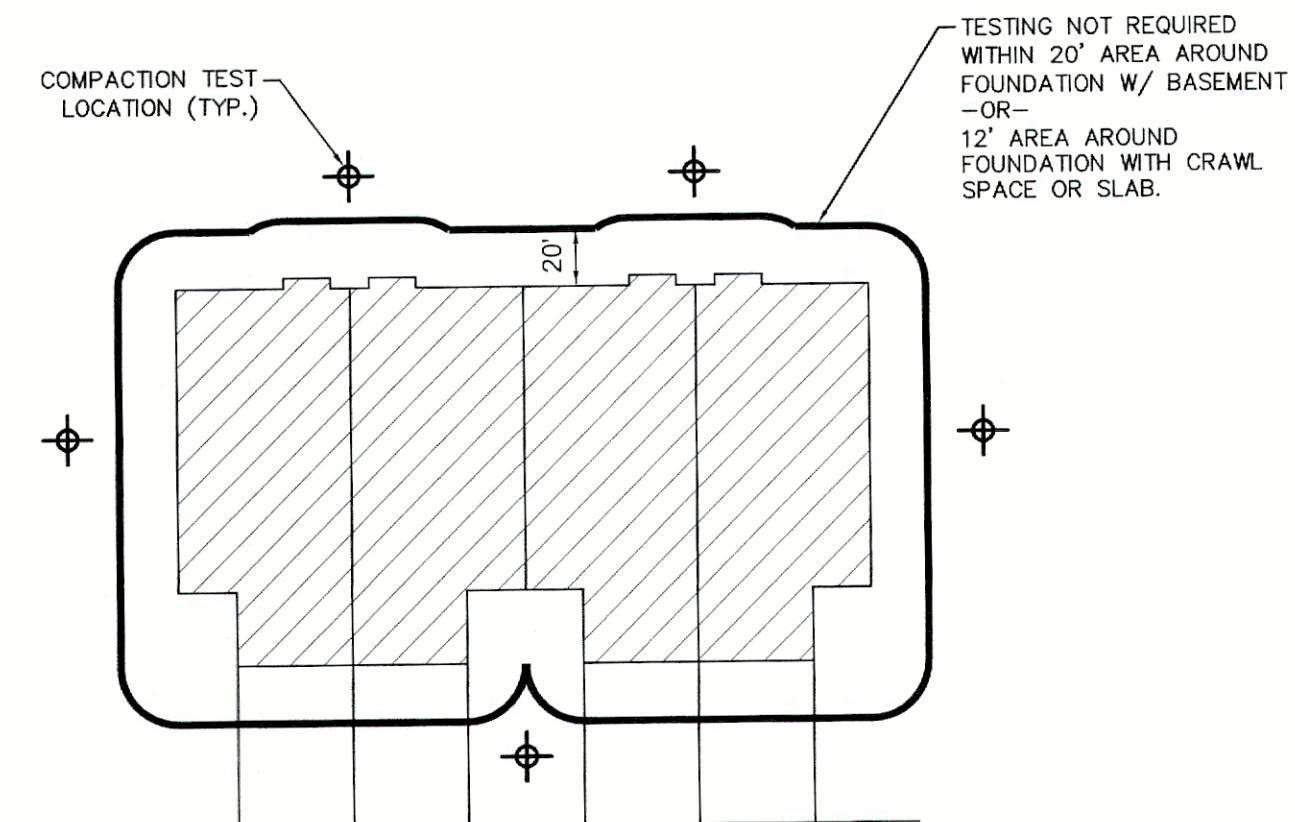
SOIL COMPACTION TESTING AREAS



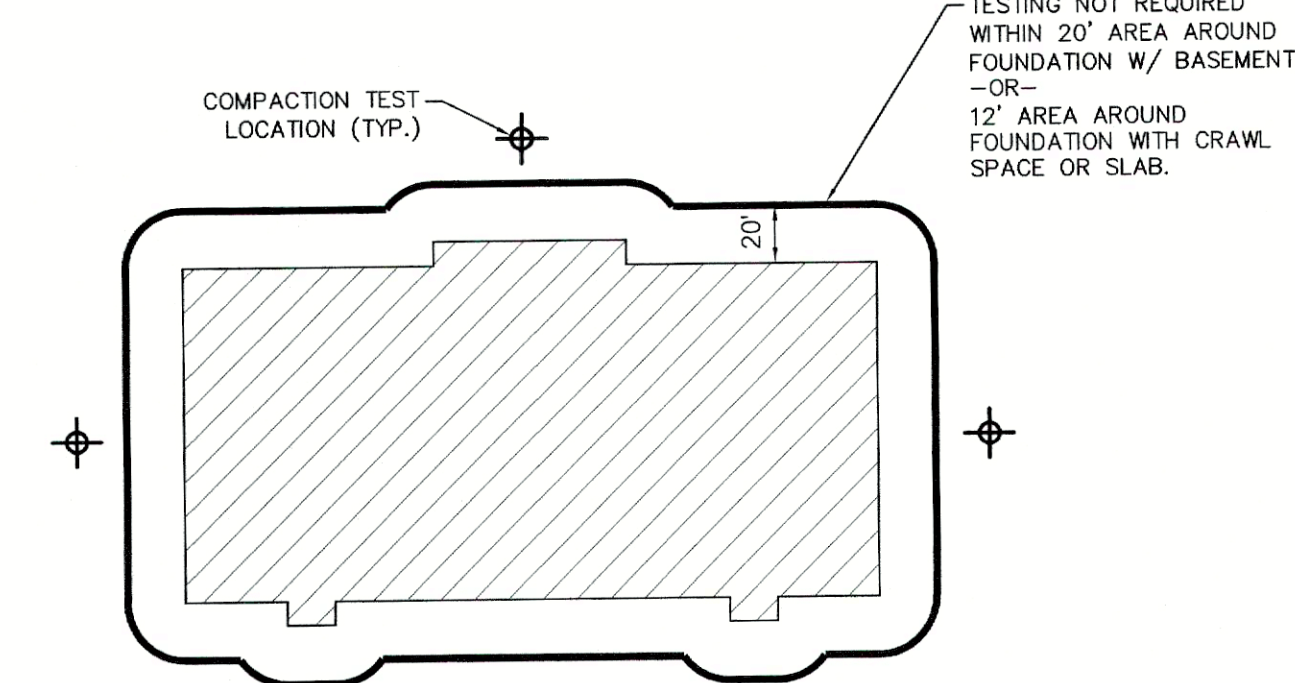
RECOMMENDED SOIL COMPACTION TEST LOCATION (APPROX. 1/0.5 ACRES)



A. SINGLE FAMILY UNIT



B. TOWNHOUSE BUILDING



C. MULTIFAMILY HOUSING OR OTHER NON-RESIDENTIAL BUILDING/STRUCTURE

NOTE: SOIL COMPACTION TESTING LOCATIONS IDENTIFIED ARE RECOMMENDED LOCATIONS FOR GRADED/DISTURBED AREAS WITHIN THE VICINITY OF BUILDINGS AND STRUCTURES OR ON INDIVIDUAL LOTS. FOR GRADED/DISTURBED AREAS WITHIN OPEN OR COMMON SPACES, SOIL COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE FREQUENCY LISTED IN THE LEGEND (THIS SHEET).

TYPICAL SOIL COMPACTION TESTING LOCATIONS

N.T.S.

GENERAL NOTES

TRACT AREA: 0.550± ACRES
AREA OF DISTURBANCE: 0.352 ACRES
SOIL MANAGEMENT RESTORATION AREA: 0.12 ACRES

SITE SOILS:
100% RoBdc - ROCKAWAY SANDY LOAM, 15 TO 25 PERCENT SLOPES, EXTREMELY STONY

PREPARED FOR: WALTER BRANDT

REV	DATE	DESCRIPTION	BY
<p>CERTIFICATE OF AUTHORIZATION: 246A28228800</p> <p>MORGAN engineering & surveying</p> <p>P.O. BOX 5232 TOMS RIVER, N.J. 08754 TEL: 732-270-9690 FAX: 732-270-9691 www.morganengineeringllc.com</p> <p><i>Mathew R. Wilder</i> MATHEW R. WILDER NEW JERSEY PROFESSIONAL ENGINEER LICENSE No. 50652</p>			
<p>SOIL MANAGEMENT AND PREPARATION PLAN</p> <p>#15 EAST FOREST ROAD</p> <p>LOT 44 BLOCK 4118</p> <p>TOWNSHIP OF MOUNT OLIVE</p> <p>COUNTY OF MORRIS NEW JERSEY</p>			
Scale:	Drawn By:	Date:	Job #:
1"=20'	J.D.	11/16/21	16-05201R
CAD File #	Sheet #		
16-05201R	1	OF 1	