

GRADING

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS MADE A THOROUGH INVESTIGATION OF THE SURFACE CONDITIONS, EVALUATED THE UNDEVELOPED SURFACE REPORT FINDINGS AND CONSIDERED ANY SPECIAL CONSTRUCTION CHALLENGES WHICH MIGHT ARISE AS A RESULT OF HEAVY CONDITIONS (I.E. WATERCOURSES, FLOODPLAINS, SUBSURFACE ROCK, SLOPES, TYPE OF SOILS, ETC.); PARTICULARLY IN AREAS WHERE CONSTRUCTION ACTIVITIES MAY ENCOUNTER CHALLENGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SERVICES, LABOR, EQUIPMENT AND MATERIALS NECESSARY, OR CONVENIENT TO THE CONTRACTOR, FOR COMPLETING THE WORK WITHIN THE TIME SPECIFIED IN THESE CONTRACT DOCUMENTS.

THE EARTHWORKS VOLUMES (except stripping, cut and fill, etc.) PROVIDED ON THE CONSTRUCTION DRAWINGS ARE ESTIMATES AND ARE PROVIDED ONLY AS A SUPPLEMENT SUPPORT TO THE CONTRACTOR. ACTUAL VOLUMES ENCOUNTERED DURING THE CONSTRUCTION PROJECT MAY DIFFER THAN THOSE NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE PROJECT'S EARTHWORKS VOLUMES PRIOR TO ANY GRADING ACTIVITIES. IF A SIGNIFICANT DIFFERENCE IS DISCOVERED BETWEEN THE DESIGN VOLUMES AND THE CONTRACTOR VOLUMES, THE OWNER SHALL BE NOTIFIED PRIOR TO ANY GRADING ACTIVITIES. ADDITIONAL SERVICES WILL BE CONSIDERED ONLY WHEN ADDITIONAL EARTHWORK SERVICES ARE WARRANTED AND REAPPROVED BY THE OWNER (extra cut, extra fill, encountering unsuitable soils, etc.).

- A. ALL GRADED AREAS (cut and/or fill), INCLUDING BUT NOT LIMITED TO, STRUCTURES, TRENCHES, FILLS, TOPSOIL STOCKPILES, EMBANKMENTS AND CHANNELS SHALL BE MAINTAINED BY THE CONTRACTOR IN GOOD CONDITION AT ALL TIMES UNTIL FINAL ACCEPTANCE BY THE OWNER. ALL DAMAGE CAUSED BY EROSION OR OTHER CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR USING MATERIAL OF THE SAME TYPE AS THE DAMAGED MATERIAL.
B. COORDINATE ALL GRADING ACTIVITIES IN ACCORDANCE WITH THE GEOTECHNICAL REPORT
C. FILL MATERIALS SUPPORTING ROADWAYS (gravel and pavement), PARKING AREAS, SIDEWALKS, STRUCTURES, BUILDINGS, AND BACKFILL AROUND STRUCTURES SHALL BE COMPACTED IN 6-INCH LAYERS TO 95 PERCENT OF THE MAXIMUM DRY DENSITY.
D. COMPACTION OF EMBANKMENTS SHALL BE BY SHEEPSFOOT ROLLERS WITH STAGGERED, UNIFORMLY SPACED KNOBS AND SUITABLE CLEANING DEVICES. THE PROJECTED AREA OF EACH KNOB AND THE NUMBER AND SPACING OF THE KNOBS SHALL BE SUCH THAT THE TOTAL WEIGHT OF THE ROLLER AND BALLAST WHEN DISTRIBUTED OVER THE AREA OF ONE ROW OF KNOBS SHALL BE 250 POUNDS.
E. FILL SHALL BE PLACED IN ACCORDANCE WITH THE WALL'S SPECIFICATIONS.
F. REEFER TO SPECIFICATIONS REGARDING MINIMUM COMPACTION REQUIREMENTS FOR THE TYPE OF SYSTEM SUPPORTED (ROADWAY, PARKING AREA, STRUCTURE, ETC.).
G. ALL COMPACTION WITHIN 10 FEET OF THE WALL SHALL BE BY HAND OPERABLE EQUIPMENT.
H. TESTS INDICATE THAT DENSITY OF FILL IS LESS THAN THAT SPECIFIED, THE AREA SHALL BE EITHER RECOMPACTED OR UNDERCUT, FILLED, AND COMPACTION UNTIL SPECIFIED DENSITY IS ACHIEVED.
I. PROOFROLLING AND COMPACTION:
a. AFTER STRIPPING AND EXCAVATING TO THE DESIRED GRADE, THE EXPOSED SOIL SUBGRADE SHALL BE SCARIFIED, COMPACTED AND THEN PROOFROLLED TO LOCATE ANY SOFT OR LOOSE AREAS. SOILS THAT ARE OBSERVED TO RUT OR DEFLECT UNDER THE MOVING LOAD SHALL BE UNDERCUT AND REPLACED WITH PROPERLY COMPACTED FILL.
b. IN AREAS SUPPORTING ROADWAYS, SIDEWALKS, PAVEMENT, BUILDINGS OR STRUCTURES, THE TOP 18-INCHES OF SUBGRADE SHALL BE COMPACTED TO WITHIN 98 PERCENT OF THE MAXIMUM DRY DENSITY.
c. THE SUBGRADE SHALL BE INTENTIALLY PROOFROLLED AND UNDERCUT, AS NECESSARY, PRIOR TO PLACEMENT OF ANY STRUCTURAL FILL.
d. THE SUBGRADE SHALL BE LOCATED ABOVEST IN A RIGID STEEL FRAME.
e. THE ROLLER WHEELS SHALL BE LOCATED ABOVEST ON AN EQUAL LOAD WHEN TRAVELING ON EVEN GROUND.
f. THE SPACING OF THE WHEELS SHALL INSURE THAT THE DISTANCE BETWEEN THE NEAREST EDGES OF ADJACENT TIRES SHALL BE NOT GREATER THAN ONE-HALF OF THE TIRE WIDTH OF A SINGLE TIRE AT THE OPERATING PRESSURE FOR A 25,000 POUND WHEEL LOAD.
g. SUBGRADE SHALL BE PROOFROLLED WITH SIX PASSES OF THE LOADED DUMP TRUCK OR ROLLER.
h. EXISTING AND/OR NEWLY INSTALLED CONDUITS, PIPES, CULVERTS AND UNDERDRAINS SHALL BE NEITHER DISTURBED NOR DAMAGED BY PROOFROLLING OR HEAVY EQUIPMENT OPERATIONS.
i. PRIOR TO RAINFALL EVENTS, THE CONTRACTOR IS RESPONSIBLE FOR STABILIZING THE COMPACTED AREAS PRIOR TO THE RAIN.
j. EXTRA EARTH EXCAVATION: ANY MATERIAL IN THE OPINION OF THE ENGINEER WHICH IS UNSUITABLE FOR FOUNDATION SHALL BE REMOVED AND REPLACED WITH COMPACTED CRUSHED STONE OR WITH COMPACTED FILL MATERIAL.
k. SURFACE STRIPPING AND REPLACEMENT:
a. ALL CHALK, MORTAR, CRACKS, RUBBLE (brick, masonry), OTHER DEBRIS, AND MATERIALS SHALL BE STRIPPED AND TEMPORARILY STOCKPILED ON-SITE.
b. REAPPLIED TOPSOIL SHALL BE THE ORIGINAL SURFACE SOIL, CLEANED OF ANY DEBRIS (including but not limited to sticks, concrete rubble, stones, roots, glass, construction debris, etc.).
c. IMPORTED TOPSOIL SHALL BE OF GOOD, RICH, UNIFORM QUALITY, FREE FROM ANY MATERIAL SUCH AS HARD CLODS, STYH CLAY, HARPRAK, PARTIALLY DISINTEGRATED STONE, PEBBLES LARGER THAN 1/2-INCH IN DIAMETER, LIME, GYPSUM, BRICKS, AGNES, COBBLES, SLATS, CONCRETE, BOARDS, STICKS, CHIPS OR OTHER UNDESIRABLE MATERIAL HARMFUL OR UNNECESSARY TO PLANT GROWTH.

- WEEDS AND SHALL NOT CONTAIN OBJECTIONABLE PLANT MATERIAL, TOXIC AMOUNTS OF EITHER ACID OR ALKALINE ELEMENTS OR VEGETABLE DEBRIS UNDESIRABLE OR HARMFUL TO PLANT LIFE.
4. PRIOR TO STRIPPING THE TOPSOIL, ALL SUBJECT AREAS SHALL BE CLEANED OF ALL STICKS, ROOTS, DEBRIS, BOARDS, STONES, CEMENT, CONCRETE AND ANY OTHER RUBBLE WHICH WILL HINDER OR PREVENT VEGETATIVE GROWTH.
L. WHEN UNSUITABLE MATERIAL IS ENCOUNTERED DURING THE COURSE OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, AND THESE AREAS WILL BE STABILIZED ACCORDING TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATION.
M. THE FILL SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE AS DETERMINED IN ACCORDANCE WITH ASTM D698.
N. MINOR CUT AND FILL SLOPES SHALL BE 3:1H:1V UNLESS OTHERWISE NOTED.
O. ALL EARTHWORK OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF OSHA CONSTRUCTION STANDARDS, PART 1926, SUBPART C, EXCAVATIONS, TRENCHING, AND SHORING, AND SHALL COMPLY WITH THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, AND REGULATIONS.
P. EARTHWORK MATERIALS:
1. ALL FILL MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
2. ALL MATERIALS FROM ABANDONED UTILITIES WHICH CAN BE READILY SALVAGED SHALL BE REMOVED FROM THE EXCAVATION AND STORED ON THE SITE AT A LOCATION AS DIRECTED BY THE OWNER.
3. ALL MATERIALS FROM ABANDONED UTILITIES WHICH CAN BE READILY SALVAGED SHALL BE REMOVED FROM THE EXCAVATION AND STORED ON THE SITE AT A LOCATION AS DIRECTED BY THE OWNER.
R. SURFACE WATER CONTROL:
1. REGULATIONS AND PERMITS: OBTAIN ALL NECESSARY SOIL EROSION CONTROL PERMITS IN ACCORDANCE WITH THE STATE OF GEORGIA REQUIREMENTS.
2. EROSION CONTROL MEASURES: DO NOT PLACE, SPREAD OR ROLL ANY FILL MATERIAL DURING UNFAVORABLE WEATHER CONDITIONS.
3. PUMPING AND DRAINAGE: PROVIDE, MAINTAIN AND USE AT ALL TIMES DURING CONSTRUCTION ADEQUATE MEANS AND DEVICES TO PROMPTLY REMOVE AND DISPOSE OF ALL WATER FROM EVERY SOURCE ENTERING THE EXCAVATIONS OR OTHER PARTS OF THE WORK.
4. DOWNSPOUTS: PROVIDE DOWNSPOUTS TO PROMPTLY REMOVE AND DISPOSE OF ALL WATER FROM EVERY SOURCE ENTERING THE EXCAVATIONS OR OTHER PARTS OF THE WORK.
5. SETTLEMENT:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SETTLEMENT OF BACKFILL, FILLS AND EMBANKMENTS WHICH MAY OCCUR WITHIN ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
2. THE CONTRACTOR SHALL MAKE, OR CAUSE TO BE MADE, ALL REPAIRS OR REPLACEMENTS MADE NECESSARY BY SETTLEMENT WITHIN 30 DAYS AFTER RECEIPT OF WRITTEN NOTICE FROM THE ENGINEER OR OWNER.
6. CLEANING:
1. UPON COMPLETION OF THE WORK OF THIS SECTION, REMOVE ALL RUBBISH, TRASH AND DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
2. IF CONSTRUCTION RELATED LAND DISTURBANCE OCCURRED OUTSIDE OF THE NOTED PROJECT LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING, RESTABILIZING, RESHAPING, ETC. THE ADJACENT OFFSITE PROPERTY SO THAT ITS FINISHED CONDITION MATCHES THE PRE-DISTURBED CONDITION.
7. DEWATERING:
1. FURNISH, INSTALL, MAINTAIN AND OPERATE NECESSARY PUMPING AND OTHER EQUIPMENT FOR Dewatering THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE SUBGRADE FOUNDATION AND OTHER PARTS FREE FROM WATER AS REQUIRED FOR CONSTRUCTING EACH PART OF THE WORK.
2. INSTALL ALL DRAINAGE DITCHES, SLUMPS AND PUMPS TO CONTROL EXCESSIVE SEEPAGE ON EXCAVATED SLOPES.
3. DETAHER BY MEANS WHICH WILL ENSURE DRY EXCAVATIONS, PRESERVE FINAL UNITS AND GRADES, DO NOT DISTURB OR DISPLACE ADJACENT SOIL.
4. ALL PUMPING AND DRAINAGE SHALL BE DONE WITH NO DAMAGE TO ADJACENT STRUCTURES AND WITHOUT INTERFERENCE WITH THE RIGHTS OF THE PUBLIC OWNERS OF PRIVATE PROPERTY, PEDESTRIANS, VEHICULAR TRAFFIC OR THE WORK OF OTHER CONTRACTORS AND IN ACCORDANCE WITH ALL PERTINENT LAWS, ORDINANCES AND REGULATIONS.
5. AFTER THEY HAVE SERVED THEIR PURPOSE, REMOVE ALL TEMPORARY PROTECTIVE DEVICES AT A SATISFACTORY TIME AND INSURE THAT ALL DIVERSION CHANNELS AND OTHER TEMPORARY EXCAVATIONS IN AREAS WHERE THE COMPACTED FILL OR OTHER STRUCTURE IS TO BE PLACED SHALL BE CLEANED OUT, BACKFILLED AND PROCESSED UNDER THE SAME SPECIFICATIONS AS THOSE GOVERNING THE COMPACTED FILL.
6. EXCAVATIONS SHALL BE CONTINUOUSLY DEWATERED TO MAINTAIN A GROUND WATER LEVEL NOT MORE THAN TWO FEET BELOW THE LOWEST POINT IN THE EXCAVATION.
7. EXCAVATIONS SHALL BE DESIGNED TO ALLOW FOR LOCALIZED SEPARATE DEWATERING OF FEET OF EXCAVATIONS REQUIRED TO REACH A SATISFACTORY FOUNDATION.
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CONCRETE SIDEWALKS

- A. CONCRETE: CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI, WITH A MAXIMUM WATER-CEMENT RATIO OF 0.45 AND A SLUMP BETWEEN 3 AND 5-INCHES.
B. JOINTS: WOOD FORMS SHALL BE FREE OF BURR OR WARP, OF UNIFORM WIDTH, NOT LESS THAN 2-INCHES (COMMERCIAL) IN THICKNESS.
C. JOINT FILLER: THE FILLER FOR EACH JOINT SHALL BE FURNISHED IN A SINGLE PIECE FOR THE FULL DEPTH AND WIDTH REQUIRED FOR THE JOINT UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
D. CONCRETE REINFORCEMENT:
1. FIBER REINFORCEMENT SHALL BE APPLIED TO THE CONCRETE, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS.
2. ALTERNATIVE REINFORCEMENT OPTIONS:
a. REINFORCEMENT BARS: BAR REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 615 GRADE 60.
b. WIRE FABRIC: WIRE FABRIC FOR CONCRETE REINFORCEMENT, SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 185.
c. BENDING: HOOKS OF 90 DEGREES SHALL HAVE A RADIUS OF BEND ON THE AXIS OF THE BAR OF NOT LESS THAN SIX BAR DIAMETERS PLUS AN EXTENSION OF 12 BAR DIAMETERS AT THE FREE END.
d. VERTICAL PLACEMENT OF REINFORCEMENT SHALL BE IN THE CENTER OF THE SIDEWALK SLAB, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS.
E. SUBGRADE:
1. SIDEWALKS: THE TOP 6-INCHES OF SUBGRADE FOR SIDEWALKS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY.
2. SIDEWALKS CROSSING DRIVEWAYS: IN THE ABSENCE OF A CONCRETE DRIVEWAY SPECIFICATION OR CONSTRUCTION DETAIL, PLACE 6-INCHES OF GAB UNDERNEATH SIDEWALKS CROSSING COMMERCIAL/INDUSTRIAL DRIVEWAYS, AND 4-INCHES OF GAB UNDERNEATH SIDEWALKS CROSSING RESIDENTIAL DRIVEWAYS.
F. EXPANSION JOINTS:
1. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER, PREMOULDED EXPANSION JOINT FILLER, 1/2-INCH IN THICKNESS, SHALL BE PLACED AT THE LOCATIONS AND IN LINE WITH EXPANSION JOINTS IN THE ADJOINING PAVEMENT, GUTTER OR CURB.
2. THE SURFACE OF SIDEWALKS SHALL BE DIVIDED INTO BEAMS BY THE USE OF GROOVING TOOLS. GROOVES SHALL BE PLACED SO AS TO CAUSE CONTRACTION (OR WEAKENED PLANE) JOINTS TO BE PLACED AT A GROOVE, AND WHERE PRACTICAL, THE GROOVES SHALL BE SPACED APPROXIMATELY FIVE FEET APART.
3. THE EDGES OF THE CONCRETE AT CONTRACTION JOINTS SHALL BE FINISHED WITH A FINISHING TOOL HAVING A RADIUS OF 1/4-INCH.
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