

**GRADING NOTES:**

1. A MINIMUM 18"X24" SIGN STATING "STORMWATER MANAGEMENT PRACTICE - NAME OF THE PRACTICE, DO NOT REMOVE OR ALTER" SHALL BE ERECTED IN THE IMMEDIATE VICINITY OF ALL PRACTICES."
2. PROJECT IDENTIFICATION - (SPDES CONSTRUCTION PERMIT #, OTHER) MUST BE MAINTAINED IN ACCORDANCE WITH D&M PLAN
3. SOIL RESTORATION SHALL BE COMPLETED IN ALL AREAS OF CUT OR FILL THESE AREAS SHALL RECEIVE AERATION AND AN ADDITIONAL 6 INCHES OF TOPSOIL
4. SOIL RESTORATION SHALL BE COMPLETED IN ALL AREAS WHERE TOPSOIL IS STRIPPED, THIS SHALL INCLUDE THE REPLACEMENT OF A MINIMUM 6 INCHES OF TOPSOIL
5. ALL GRADING TO BE 3:1 (HORIZONTAL: VERTICAL) MAXIMUM SLOPE. GRADED LAWN/YARD AREAS SHALL HAVE A MINIMUM SLOPE OF 2%.
6. UNLESS OTHERWISE NOTED, THE LOCATIONS AND FOOTPRINT CONFIGURATIONS OF PROPOSED DWELLING, DRIVEWAYS AND ASSOCIATED LOT GRADING AS SHOWN ON THIS PLAN ARE CONCEPTUAL AND ARE INCLUDED FOR MUNICIPAL REVIEW PURPOSES. ACTUAL BUILDING LOCATIONS AND CONFIGURATIONS, AND RELATED SITE GRADING, MAY VARY FROM WHAT IS SHOWN. PROPOSED DWELLINGS AND DRIVEWAYS SHALL BE APPROVED BY THE TOWN DEPARTMENT OF PUBLIC WORKS (AND POSSIBLY OTHER TOWN ENTITIES) PRIOR TO THE ISSUANCE OF A BUILDING PERMIT FOR THAT LOT.
7. ALL CONTROLLED FILL SHALL BE CERTIFIED BY A LICENSED SOILS ENGINEER. THAT PLACEMENT OF THE MATERIAL WAS DONE IN A MANNER SUITABLE FOR THE CONSTRUCTION OF THE ROAD, AND THE INSTALLATION OF WATER MAIN, STORM SEWER, AND SANITARY SEWER LINES. THE MATERIAL IDENTIFIED AS CONTROLLED FILL IS IDENTIFIED ON THESE PLANS AS CONTROLLED FILL AREAS UNTIL THE CERTIFYING SOILS ENGINEER HAS BEEN CONSULTED.
8. ALL PIPES AND APPURTENCES SHALL BE INSTALLED ACCORDING TO THE TOWN OF BETHLEHEM WATER AND SEWER AUTHORITY STANDARD SPECIFICATIONS.
9. THE CONTRACTOR SHALL VERIFY SIZE, TYPE, HORIZONTAL AND VERTICAL LOCATION OF THE MAIN AT THE PROPOSED CONNECTION POINTS PRIOR TO CONSTRUCTION. CONFLICTS WITH OTHER UTILITIES TO BE CONSTRUCTED ARE TO BE AVOIDED. DISCREPANCIES OR OTHER CONFLICTS WITH EXISTING UTILITIES SHALL BE REPORTED TO THE WATER SUPERINTENDENT IMMEDIATELY.
10. MINIMUM WATER MAIN DEPTH (TOP OF PIPE TO FINISH GRADE) SHALL BE 5'-0".
11. ALL FILL BELOW WATER MAIN SHALL BE COMPAKTED GRANULAR MATERIAL (MIN. 95% PROCTOR TYP.)
12. ALL TRENCH FACKING SHALL BE MECHANICALLY COMPACTED TO PREVENT SETTLEMENT. TOP TRENCH WITH 12" MIN. APPURTENANCE IN THE DOWNSIDE SIDE OF EXISTING ROAD FOR SHOULDER BASE. REPLACE DAMAGED PAVEMENTS WITH LIKE KIND AND LIKE THICKNESS.
13. THE DEVELOPER SHALL HAVE A SITE-SPECIFIC SOILS REPORT WRITTEN FOR ANY LOT THAT HAS A PROPOSED FOUNDATION FOOT PRINT THAT IS LOCATED ON THE DOWNSHILL SIDE OF THE SLOPE SET BACK LINE AS SHOWN ON THIS SHEET. ADDRESSES THE SLOPE STABILITY ISSUE AND HAVING BEEN DULY PREPARED BY A LICENSED GEOTECHNICAL ENGINEER. THE REPORT SHALL BE SUBMITTED TO THE TOWN OF BETHLEHEM WATER AND SEWER AUTHORITY AND THE TOWN BUILDING PERMIT FOR THAT LOT. THE DEVELOPER SHALL ALSO INCLUDE A DEED NOTICE IN THE DEED FOR THAT LOT, AS WRITTEN BELOW. THIS PERTAINS TO, BUT IS NOT LIMITED TO, THE FOLLOWING LOTS: LOT 4, LOT 5, LOT 6, LOT 7, LOT 8, LOT 9, LOT 12 AND LOT 24.
14. IN ADDITION TO THE ABOVE LOTS, THE DEVELOPER SHALL INCLUDE A DEED NOTICE IN THE DEED FOR ANY OTHER LOT THAT HAS A SLOPE SET BACK LINE SHOWN ON IT AS SHOWN ON THIS SHEET. THE DEED NOTICE SHALL BE WRITTEN AS IN ITEM 13, EXCEPT THAT THE LOT BEING REFERRED TO IS NOT LISTED TO, THE FOLLOWING LOTS: LOT 3, LOT 4, LOT 5, LOT 6, LOT 7, LOT 8, LOT 9, LOT 12 AND LOT 24.
15. THE DEVELOPER SHALL PLACE A CONDITION IN THE CONTRACT FOR PURCHASE AND SALE OF REAL ESTATE FOR ANY LOT THAT WILL HAVE A DEED NOTICE. THE CONDITION WILL STATE THAT THE DEED FOR THE TRANSACTION WILL HAVE A DEED NOTICE AS WRITTEN IN NOTE 16 BELOW.
16. THE FOLLOWING STATEMENT IS THE SLOPE-RELATED DEED NOTICE TO BE PLACED IN THE DEEDS OF LOTS 3-9, 23 AND 24. "SUBJECT TO THE NOTICE OF SITE CONDITIONS AS SHOWN ON THIS SHEET, THE SLOPES BEING CONSIDERED BEFORE FILL IMPROVEMENTS ARE MADE ON THE LOT, THE CONTRACTOR SHALL DETERMINE THE NATURE OF THE SOIL CONCERNED AND CONSULT WITH A LICENSED GEOTECHNICAL ENGINEER. THE SERVICES OF A LICENSED GEOTECHNICAL ENGINEER SHOULD BE OBTAINED BEFORE ANY CHANGES ARE MADE ON THE PROPERTY, SUCH AS PLACING FILL, RE-GRADING, BUILDING RETAINING WALLS, CUTTING SLOPES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT OF FEES FOR THE SERVICES OF A LICENSED GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT OF FEES FOR THE SERVICES OF A LICENSED GEOTECHNICAL ENGINEER. ANY STREAMS THAT MAY BE ON THE PROPERTY, ETC. A SITE-SPECIFIC SOILS REPORT ADDRESSING THE ISSUE OF SLOPE STABILITY MAY HAVE BEEN REQUESTED FOR APPROVAL BY THE TOWN BUILDING PERMIT APPROVAL OF THE LOT, IN WHICH CASE THE REPORT SHOULD BE SUBMITTED AND APPROVED BY THE TOWN OF BETHLEHEM BUILDING DEPARTMENT.
17. THIS PLAN SHALL NOT BE USED TO ESTABLISH BEARING CAPACITIES FOR STRUCTURAL FOUNDATIONS. SOIL BEARING CAPACITIES SHALL BE DETERMINED BY BORING LOGS AND DETERMINATION BY A PROFESSIONAL GEOTECHNICAL ENGINEER.
18. A SLOPE STABILITY EVALUATION, DATED MARCH 25, 2016, WAS PREPARED BY DENT ENGINEERING, ALL RECOMMENDATIONS PROVIDED IN THE EVALUATION SHALL BE FOLLOWED DURING CONSTRUCTION.
19. PRIOR TO PLACING FILLS OVER EXISTING SLOPES, THE AREAS SHOULD BE CLEARED AND STRIPPED OF TOPSOIL AND SURFICIAL ORGANIC MATTER.
20. ALL EXISTING UNSUITABLE FILLS SHALL BE REMOVED FROM THE SOUTH SIDE OF THE WET POND (STREET #15) AND REPLACED WITH COMPACTED SAND AND GRAVEL, WHERE SAND AND GRAVEL MATERIALS ARE IMPORTED THE BASIN SHOULD BE FILLED WITH A MINIMUM 18" CLAY CAP. THE CONTRACTOR MAY PERFORM SUPPLEMENTAL INVESTIGATION AT THE TIME OF CONSTRUCTION TO BE WITNESSED BY THE GEOTECHNICAL ENGINEER TO DETERMINE POTENTIAL SUITABILITY OF ON-SITE SOILS IN THIS AREA.
21. FILLING AND BUILDING CONSTRUCTION SHOULD NOT BE PERMITTED BEYOND THE SETBACK LINES SHOWN ON LOTS #4-5.

TEST PIT LOG	
TEST PIT	SOIL PROFILE
TP 1	0"-18" BR. LOAMY CLAY TOPSOIL 18"-72" BR. CLAY (FIL) 72"-102" LT. BR. SAND 102"-120" ER. SILTY CLAY 120"-132" LT. BR. CLAY 132"-144" LT. BR. CLAY 144"-168" LT. BR. CLAY 168"-180" LT. BR. CLAY 180"-192" LT. BR. CLAY 192"-210" LT. BR. CLAY 210"-228" LT. BR. CLAY 228"-248" LT. BR. CLAY 248"-268" LT. BR. CLAY 268"-288" LT. BR. CLAY 288"-308" LT. BR. CLAY 308"-328" LT. BR. CLAY 328"-348" LT. BR. CLAY 348"-368" LT. BR. CLAY 368"-388" LT. BR. CLAY 388"-408" LT. BR. CLAY 408"-428" LT. BR. CLAY 428"-448" LT. BR. CLAY 448"-468" LT. BR. CLAY 468"-488" LT. BR. CLAY 488"-508" LT. BR. CLAY 508"-528" LT. BR. CLAY 528"-548" LT. BR. CLAY 548"-568" LT. BR. CLAY 568"-588" LT. BR. CLAY 588"-608" LT. BR. CLAY 608"-628" LT. BR. CLAY 628"-648" LT. BR. CLAY 648"-668" LT. BR. CLAY 668"-688" LT. BR. CLAY 688"-708" LT. BR. CLAY 708"-728" LT. BR. CLAY 728"-748" LT. BR. CLAY 748"-768" LT. BR. CLAY 768"-788" LT. BR. CLAY 788"-808" LT. BR. CLAY 808"-828" LT. BR. CLAY 828"-848" LT. BR. CLAY 848"-868" LT. BR. 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