

## GEOTECHNICAL GRADING NOTES:

THE FOLLOWING NOTES HAVE BEEN REFERENCED FROM THE GEOTECHNICAL REPORT PREPARED BY TERRACON CONSULTANTS, INC. DATED JULY 13, 2023. REFER TO THE COMPLETE REPORT FOR ALL EARTHWORK

GROUNDWATER WAS NOT OBSERVED DURING OUR SUBSURFACE EXPLORATION. IT SHOULD BE NOTED THE POSSIBILITY OF GROUNDWATER LEVEL FLUCTUATIONS SHOULD BE CONSIDERED WHEN DEVELOPING THE DESIGN AND CONSTRUCTION PLANS FOR

PRIOR TO PLACING FILL, VEGETATION, AND TOPSOIL/ROOT MATS SHOULD BE REMOVED. COMPLETE STRIPPING OF THE TOPSOIL/ROOT MATS SHOULD BE PERFORMED IN THE PROPOSED BUILDING AND PARKING/DRIVEWAY AREAS. ALTHOUGH NO EVIDENCE OF FILL OR UNDERGROUND FACILITIES (SUCH AS SEPTIC TANKS, CESSPOOLS, BASEMENTS, AND UTILITIES) WAS OBSERVED DURING THE EXPLORATION AND SITE RECONNAISSANCE, SUCH FEATURES COULD BE ENCOUNTERED DURING CONSTRUCTION. IF UNEXPECTED FILLS OR UNDERGROUND FACILITIES ARE ENCOUNTERED, SUCH FEATURES SHOULD BE REMOVED, AND THE EXCAVATION THOROUGHLY CLEANED PRIOR TO BACKFILL PLACEMENT AND/OR CONSTRUCTION.

FILL REQUIRED TO ACHIEVE DESIGN GRADE SHOULD BE CLASSIFIED AS STRUCTURAL FILL AND GENERAL FILL. STRUCTURAL FILL IS MATERIAL USED BELOW, OR WITHIN 10 FEET OF THE STRUCTURE TO INCLUDE THE FLOOR SLAB, EXTERIOR FLATWORK, SIDEWALKS, PAVEMENTS, AND OTHER MOVEMENT SENSITIVE ELEMENTS OF THE PROJECT. GENERAL FILL IS MATERIAL USED TO ACHIEVE GRADE OUTSIDE OF THESE AREAS. EXCAVATED SOIL ON-SITE MAY BE SELECTIVELY REUSED AS FILL BELOW STRUCTURES, SLABS, PAVEMENT, AND LANDSCAPING AREAS. SEE THE REFERENCED GEOTECHNICAL INVESTIGATION FOR MATERIAL

## TRENCH PREPARATION AND BACKFILL:

ANY SOFT OR UNSUITABLE MATERIALS ENCOUNTERED AT THE BOTTOM OF UTILITY TRENCH EXCAVATIONS SHOULD BE REMOVED AND REPLACED WITH STRUCTURAL FILL OR BEDDING MATERIAL IN ACCORDANCE WITH PUBLIC WORKS SPECIFICATIONS FOR THE UTILITY TO BE SUPPORTED. THIS RECOMMENDATION IS PARTICULARLY APPLICABLE TO UTILITY WORK REQUIRING GRADE CONTROL AND/OR AREAS WHERE SUBSEQUENT GRADE RAISING COULD CAUSE SETTLEMENT IN THE SUBGRADE SUPPORTING THE UTILITY. TRENCH EXCAVATION SHOULD NOT BE CONDUCTED BELOW A DOWNWARD 1: PROJECTION FROM EXISTING FOUNDATIONS WITHOUT ENGINEERING REVIEW OF SHORING REQUIREMENTS AND GEOTECHNICAL OBSERVATION DURING CONSTRUCTION. ON-SITE MATERIALS ARE CONSIDERED SUITABLE FOR FOUNDATION, EMBEDMENT, AND BACKFILL OF UTILITY AND PIPE TRENCHES FROM 1 FOOT ABOVE THE TOP OF THE PIPE TO THE FINAL GROUND SURFACE, PROVIDED THE MATERIAL IS FREE OF ORGANIC MATTER AND DELETERIOUS SUBSTANCES. UTILITY INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE JURISDICTION. TRENCH BACKFILL SHOULD BE MECHANICALLY PLACED AND COMPACTED AS DISCUSSED EARLIER IN THIS REPORT. COMPACTION OF INITIAL LIFTS SHOULD BE ACCOMPLISHED WITH HAND-OPERATED TAMPERS OR OTHER LIGHTWEIGHT COMPACTORS WHERE TRENCHES ARE PLACED BENEATH SLABS OR FOOTINGS, THE BACKFILL SHOULD SATISFY THE GRADATION AND PLASTICITY INDEX REQUIREMENTS OF STRUCTURAL/ENGINEERED FILL DISCUSSED IN THE REPORT, FLOODING OR JETTING FOR PLACEMENT AND COMPACTION OF BACKFILL IS NOT RECOMMENDED.

## **GRADING GENERAL NOTES**

ALL GRADING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE GRADING IS SUBJECT TO THE OBSERVATION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PROPOSED GRADES IN RELATIONSHIP TO SURVEYED BASIS OF ELEVATION.

- 3. BUILDING FINISH FLOOR (FF) ELEVATION. THE FINISH FLOOR OF THE BUILDING(S) IS DESIGNED TO BE FLUSH WITH SURROUNDING CONCRETE PAVING UNLESS OTHERWISE NOTED ON THE PLANS.
- 4. ALL EXISTING UTILITY STRUCTURES AND ASSOCIATED LIDS THAT FALL WITHIN THE AREA OF WORK SHALL BE ADJUSTED TO FINISHED GRADE ELEVATIONS. CONTRACTOR SHALL CONFIRM THE FEASIBILITY OF ADJUSTING EXISTING UTILITY
- 5. CONTRACTOR TO PROTECT AND MAINTAIN EROSION CONTROL FACILITIES DURING GRADING OPERATIONS.
- 6. CONTRACTOR TO OBTAIN ANY NECESSARY RIGHT-OF-WAY PERMITS IF REQUIRED FOR WORK SHOWN ON PLANS.
- 7. ALL MATCH EXISTING ELEVATIONS SHALL BE CONSTRUCTED TO BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES. ALL SAWCUT LOCATIONS, SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.

TC - TOP OF CURB/SIDEWALK

RIM - RIM/GRATE ELEVATION OF STRUCTURE

<u>LEGEND</u>	
BUILDING LINE	
EXISTING CURB TO REMAIN	
PROPOSED CURB	
PROPOSED LANDSCAPING	
PROPOSED ASPHALT	

Barghauser Consulting

AND VIST,

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