FINAL ROAD CONSTRUCTION, GRADING AND STORMWATER MANAGEMENT PLANS

CHERRYTREE VIEW

BUILDABLE LOTS 1 - 4 AND 14 - 20
OPEN SPACE LOTS 12 & 13

ZONING: R-20

TAX MAP No. 46  GRID No. 11  PARCEL No. 55

SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
OPERATION AND MAINTENANCE SCHEDULE FOR DRYWELLS (M-5)

1. The owner shall limit the number of vehicular and pedestrian activities within the drywell embankment to a maximum of two per day. This limit shall be determined by the developer based on the drywell's capacity to handle the water flow and sediment load.
2. The drywell shall be inspected by the developer on a quarterly basis and any necessary repairs shall be performed to keep the drywell in good condition.
3. The drywell shall be cleaned by the developer on an annual basis to remove any accumulated debris or sediment.
4. The drywell shall be maintained by the developer in accordance with the specification provided by the designer.

PRIVATE FACILITIES

Owner: Cherrytree View
Developer: Cherrytree View

FUTURE STORMWATER MANAGEMENT DETAILS

Cherrytree View
Residential Lots 1, 2 and 3 - 25

Note: All private facilities are to be constructed & detailed at the site development plan phase, once actual house plans are selected.

The following design details are provided for future reference:

- Stormwater management details
- Collection and conveyance system
- Underground detention and infiltration system
- Filtration and treatment systems

There is no on-site treatment of stormwater.
SEGMENTAL RETAINING WALL SPECIFICATIONS

PART 1 - GENERAL

1.0 WORK INCLUSIONS

GEO TECHNOLOGY ASSOCIATES, INC. (GTA) retains responsibility for the design, supervision, and quality assurance of the work of the segmental retaining wall. GTA is responsible for ensuring that the work meets the specifications and that all aspects of the construction, including the geotechnical design, are in accordance with the approved plans and specifications.

2.0 REFERENCE STANDARDS

A. ANSI 240.1-1993, 2000 - ALLOWABLE STRESS DESIGN (LSD)
B. ANSI A58.1-1996, 2000 - ALLOWABLE STRESS DESIGN (LSD)
C. ANSI A58.2-1996, 2000 - DETERMINATION OF FOUNDATIONS FOR STRUCTURAL USE
D. ANSI A58.3-1996, 2000 - DETERMINATION OF FOUNDATIONS FOR STRUCTURAL USE
E. ASCE/SEI 4-02, 2002 - FOUNDATIONS AND RETAINING STRUCTURES
F. ASCE/SEI 3-97, 1997 - FOUNDATIONS AND RETAINING STRUCTURES
G. ASCE/SEI 6-96, 1996 - FOUNDATIONS AND RETAINING STRUCTURES
H. ASCE/SEI 7-91, 1991 - FOUNDATIONS AND RETAINING STRUCTURES
I. ASME B31.3, 1988 - PRESSURE PIPING DESIGN
J. ASME B31.1, 1988 - PRESSURE PIPING DESIGN
K. ASME B31.3, 1988 - PRESSURE PIPING DESIGN
L. ASME B31.1, 1988 - PRESSURE PIPING DESIGN

3.0 DESCRIPTION OF WORK

The segmental retaining wall shall be designed and constructed in accordance with the approved plans and specifications. The wall shall be constructed of precast concrete segments. The wall shall be designed to resist the forces and moments resulting from the earth pressures and loads acting on the wall.

4.0 QUALITY ASSURANCE

The contractor shall ensure that the work is performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the work, and any deviations from the plans and specifications shall be reported to GTA.

PART 2 - PRODUCTS

21.0 EXCAVATION

A. Excavation shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the excavation, and any deviations from the plans and specifications shall be reported to GTA.

22.0 MATERIALS

The contractor shall submit material samples and samples of the proposed materials for approval by GTA. All materials shall be manufactured in accordance with the approved plans and specifications.

A. CONCRETE

1. The concrete used for the construction of the retaining wall shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the concrete, and any deviations from the plans and specifications shall be reported to GTA.

2. The concrete used for the construction of the retaining wall shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the concrete, and any deviations from the plans and specifications shall be reported to GTA.

3. The concrete used for the construction of the retaining wall shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the concrete, and any deviations from the plans and specifications shall be reported to GTA.

B. STEEL

1. The steel used for the construction of the retaining wall shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the steel, and any deviations from the plans and specifications shall be reported to GTA.

2. The steel used for the construction of the retaining wall shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the steel, and any deviations from the plans and specifications shall be reported to GTA.

3. The steel used for the construction of the retaining wall shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the steel, and any deviations from the plans and specifications shall be reported to GTA.

C. FILTER FABRIC

1. The filter fabric shall be of the type specified in the approved plans and specifications. The contractor shall be responsible for the quality of the filter fabric, and any deviations from the plans and specifications shall be reported to GTA.

2. The filter fabric shall be of the type specified in the approved plans and specifications. The contractor shall be responsible for the quality of the filter fabric, and any deviations from the plans and specifications shall be reported to GTA.

3. The filter fabric shall be of the type specified in the approved plans and specifications. The contractor shall be responsible for the quality of the filter fabric, and any deviations from the plans and specifications shall be reported to GTA.

PART 3 - EXECUTION

A. ERECTION

1. The contractor shall erect the wall in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the erection, and any deviations from the plans and specifications shall be reported to GTA.

2. The contractor shall erect the wall in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the erection, and any deviations from the plans and specifications shall be reported to GTA.

3. The contractor shall erect the wall in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the erection, and any deviations from the plans and specifications shall be reported to GTA.

B. FOUNDATION SUBSTRUCTURE PREPARATION

1. The foundation substructure shall be prepared in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the foundation substructure, and any deviations from the plans and specifications shall be reported to GTA.

2. The foundation substructure shall be prepared in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the foundation substructure, and any deviations from the plans and specifications shall be reported to GTA.

3. The foundation substructure shall be prepared in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the foundation substructure, and any deviations from the plans and specifications shall be reported to GTA.

C. EROSION CONTROL

1. The erosion control system shall be installed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the erosion control system, and any deviations from the plans and specifications shall be reported to GTA.

2. The erosion control system shall be installed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the erosion control system, and any deviations from the plans and specifications shall be reported to GTA.

3. The erosion control system shall be installed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the erosion control system, and any deviations from the plans and specifications shall be reported to GTA.

D. LINING SYSTEM

1. The lining system shall be installed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the lining system, and any deviations from the plans and specifications shall be reported to GTA.

2. The lining system shall be installed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the lining system, and any deviations from the plans and specifications shall be reported to GTA.

3. The lining system shall be installed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the lining system, and any deviations from the plans and specifications shall be reported to GTA.

E. PLACING PROCEDURE

1. The placing procedure shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the placing procedure, and any deviations from the plans and specifications shall be reported to GTA.

2. The placing procedure shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the placing procedure, and any deviations from the plans and specifications shall be reported to GTA.

3. The placing procedure shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the placing procedure, and any deviations from the plans and specifications shall be reported to GTA.

F. ECONOMIC ANALYSIS

1. The economic analysis shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the economic analysis, and any deviations from the plans and specifications shall be reported to GTA.

2. The economic analysis shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the economic analysis, and any deviations from the plans and specifications shall be reported to GTA.

3. The economic analysis shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the economic analysis, and any deviations from the plans and specifications shall be reported to GTA.

G. DEMOLITION

1. The demolition shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the demolition, and any deviations from the plans and specifications shall be reported to GTA.

2. The demolition shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the demolition, and any deviations from the plans and specifications shall be reported to GTA.

3. The demolition shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the demolition, and any deviations from the plans and specifications shall be reported to GTA.

H. CONSTRUCTION OBSERVATION AND TESTING

1. The construction observation and testing shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the construction observation and testing, and any deviations from the plans and specifications shall be reported to GTA.

2. The construction observation and testing shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the construction observation and testing, and any deviations from the plans and specifications shall be reported to GTA.

3. The construction observation and testing shall be performed in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the construction observation and testing, and any deviations from the plans and specifications shall be reported to GTA.

I. DESIGN CONTENTS

1. The design contents shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the design contents, and any deviations from the plans and specifications shall be reported to GTA.

2. The design contents shall be in accordance with the approved plans and specifications. The contractor shall be responsible for the quality of the design contents, and any deviations from the plans and specifications shall be reported to GTA.

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