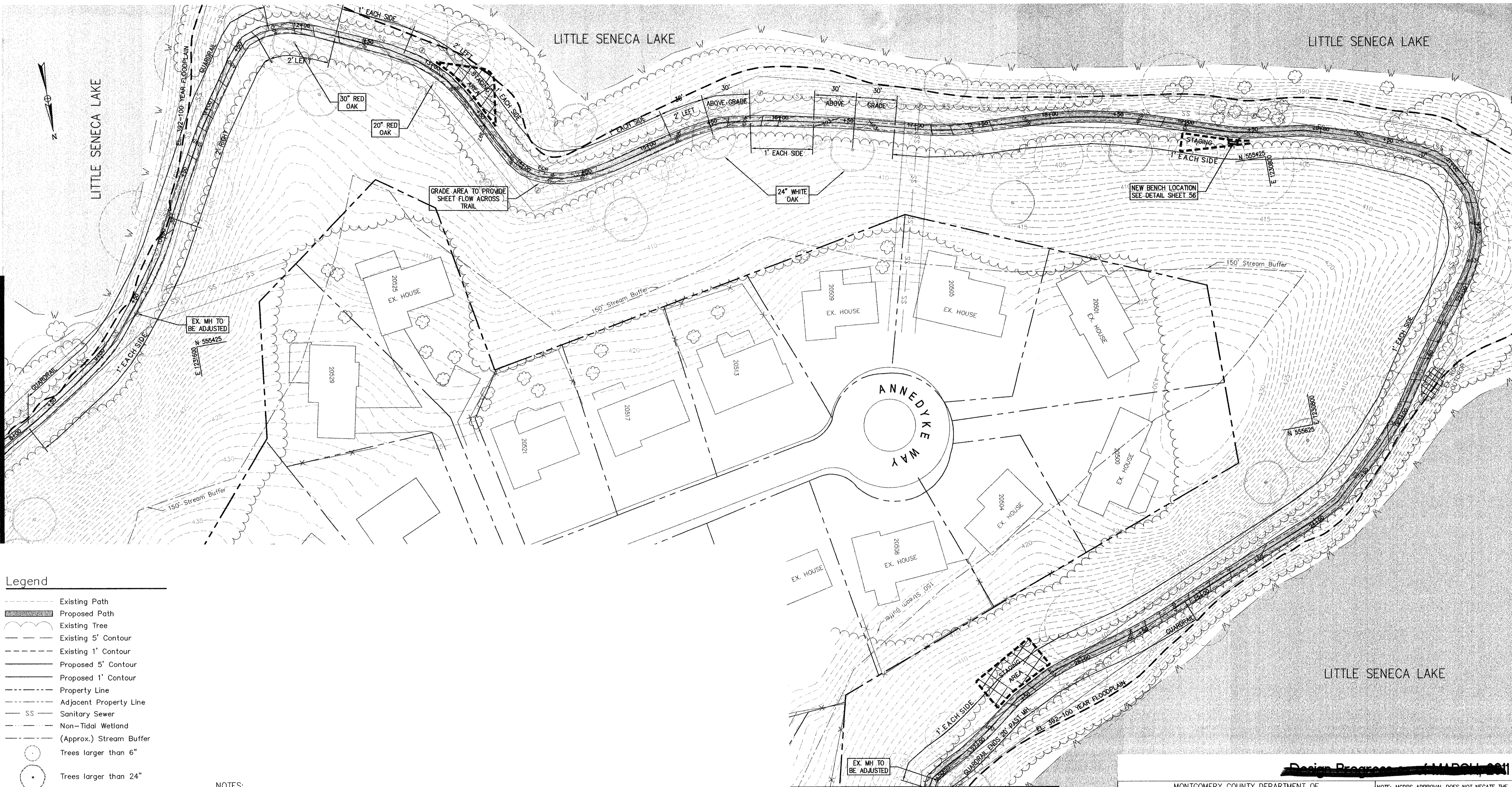


MATCHLINE 8+00 SEE SHEET 13

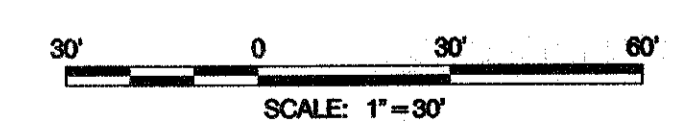


- Legend**
- Existing Path
  - Proposed Path
  - Existing Tree
  - Existing 5' Contour
  - Existing 1' Contour
  - Proposed 5' Contour
  - Proposed 1' Contour
  - Property Line
  - Adjacent Property Line
  - Sanitary Sewer
  - Non-Tidal Wetland
  - (Approx.) Stream Buffer
  - Trees larger than 6"
  - Trees larger than 24"

- NOTES:**
1. For the majority of the project, the proposed trail alignment shall follow the existing alignment both vertically and horizontally. In cases where the existing alignment does not conform with the guidelines for accessible trails, the alignment shall be modified.
  2. Prior to vegetative stabilization, all disturbed areas must be topsoiled per the Montgomery County "Standards and Specifications for Topsoil".
  3. Contractor shall fine-grade all trail areas so that no concentrated flow occurs. No swales shall be constructed or graded along trail edges unless specifically directed.
  4. Provide wire screen at each end to prevent rodents from invading pipe.

BEFORE BEGINNING CONSTRUCTION  
CONTACT  
**"MISS UTILITY"**  
AT  
1-800-257-7777  
AT LEAST 48 HOURS  
PRIOR TO EXCAVATION

**MATCHLINE 27+50 SEE SHEET 15**



PREPARED BY:  
**PHOENIX ENGINEERING, INC.**  
CONSULTING ENGINEERS  
1420 JOH AVENUE, SUITE A  
BALTIMORE, MARYLAND 21227  
(410) 247-8833 FAX 247-9397

**Design Progress - 1 MAR 11 2011**

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:			NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.
Stormwater Management	Sediment Control Technical Requirements	Administrative Requirements:	
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____	SEDIMENT CONTROL PERMIT NO.  215725
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____	
SM FILE # 210978			MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED UNLESS THE PERMIT HAS BEEN EXTENDED.

DESIGN			
Designer's	Landscape Architect	Date	Checked By
Address	Architect	Date	Checked By
City/State/Zip	Engineer	Date	Checked By
Telephone Number	Drawn by	Date	Checked By

**Professional Certification** - I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 14920  
Expiration Date 5/2/12



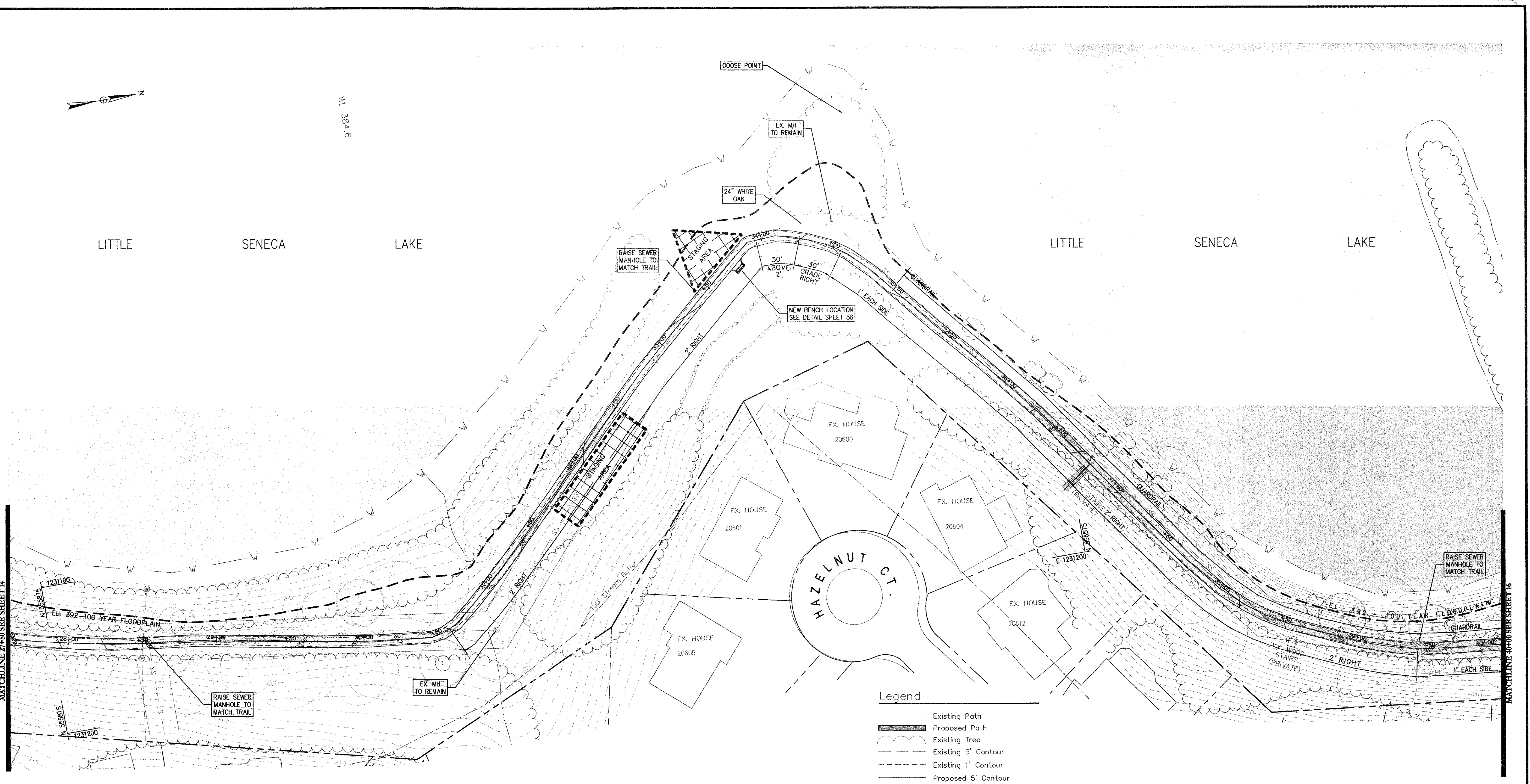
**The Maryland-National Capital Park and Planning Commission**  
Montgomery County Department of Parks  
9500 Brunnet Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535  
Construction Manager, Robert Kane (301) 495-2555

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON	
Project Manager	Date	REVISIONS	
Construction Manager	Date	Rev. No.	Date
Park Manager	Date	Description	

**Trail #3 Site Development Plan**  
8+00 to 27+50  
Black Hill Regional Park  
Hard Surface Trail Renovations

SCALE: 1"=30'      Liber      Folio

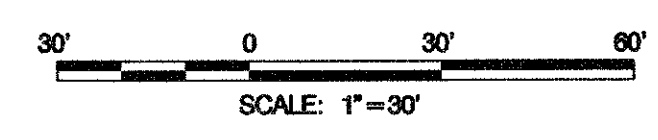
SC # 9 of 28  
SHT # 14 of 56



- Legend**
- Existing Path
  - Proposed Path
  - Existing Tree
  - Existing 5' Contour
  - Existing 1' Contour
  - Proposed 5' Contour
  - Proposed 1' Contour
  - Property Line
  - Adjacent Property Line
  - SS Sanitary Sewer
  - Non-Tidal Wetland
  - (Approx.) Stream Buffer
  - Trees larger than 6"
  - Trees larger than 24"

**NOTES:**

1. For the majority of the project, the proposed trail alignment shall follow the existing alignment both vertically and horizontally. In cases where the existing alignment does not conform with the guidelines for accessible trails, the alignment shall be modified.
2. Prior to vegetative stabilization, all disturbed areas must be topsoiled per the Montgomery County "Standards and Specifications for Topsoil".
3. Contractor shall fine-grade all trail areas so that no concentrated flow occurs.
4. No swales shall be constructed or graded along trail edges unless specifically directed.
5. For manhole height adjustments refer to WSSC General Conditions and Standard Specifications - 2009, 02530 Sanitary Sewer System, Section 3.7 Manholes.



PREPARED BY:  
**PHOENIX ENGINEERING, INC.**  
 CONSULTING ENGINEERS  
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 BALTIMORE, MARYLAND 21227  
 (410) 247-8833 FAX 247-9397

BEFORE BEGINNING CONSTRUCTION  
 CONTACT  
**"MISS UTILITY"**  
 AT  
 1-800-257-7777  
 AT LEAST 48 HOURS  
 PRIOR TO EXCAVATION

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		
Stormwater Management	Sediment Control Technical Requirements	Administrative Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Reviewed _____ Date _____	Reviewed _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
		215725
SM FILE # 210978		

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED UNLESS THE PERMIT HAS BEEN EXTENDED.

DESIGN			
Designer's	Landscape Architect	Date	Checked By
Address	Architect	Date	Checked By
City/State/Zip	Engineer	Date	Checked By
Telephone Number	Drawn by	Date	Checked By

**Professional Certification** I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 1A920  
 Expiration Date 5/12/12

**The Maryland-National Capital Park and Planning Commission**  
 Montgomery County Department of Parks  
 9500 Brunnet Avenue  
 Silver Spring, Maryland 20901  
 (301) 495-2535  
 Construction Manager, Robert Kane (301) 495-2555

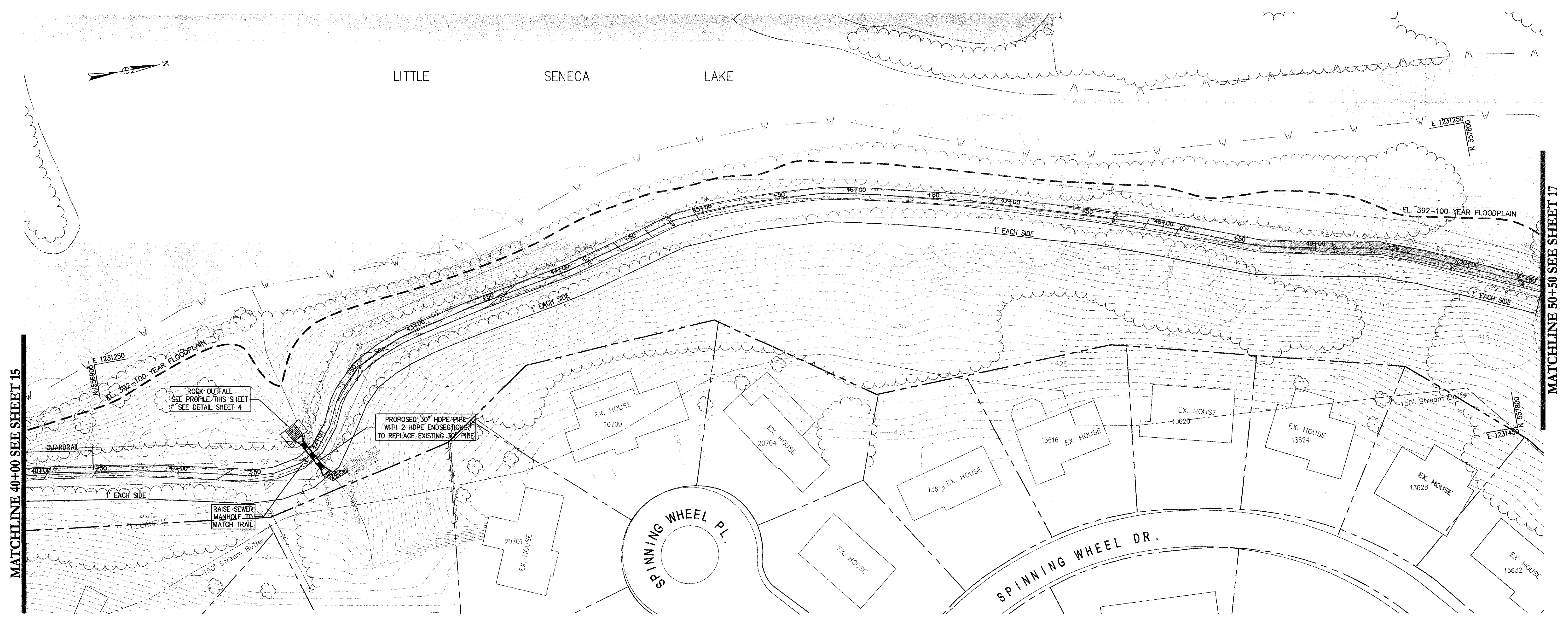
REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON	
Project Manager	Date	Rev. No.	Date
Construction Manager	Date		
Park Manager	Date		

**Trail #3 Site Development Plan**  
 27+50 to 40+00  
 Black Hill Regional Park  
 Hard Surface Trail Renovations

SCALE: 1"=30' Liber Folio

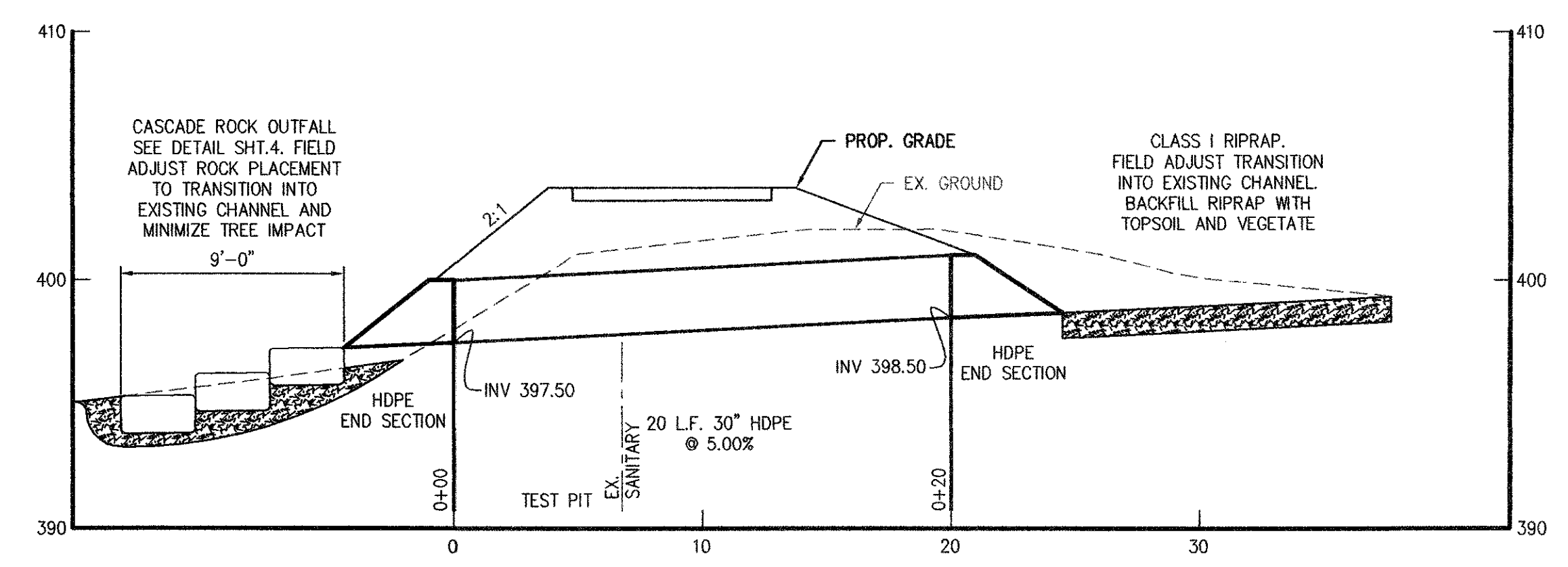
SC # 10 of 28  
 SHT # 15 of 56

LITTLE SENECA LAKE

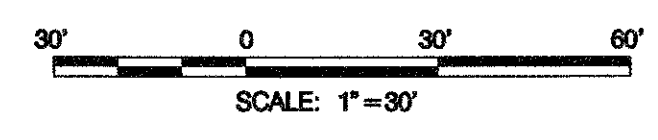


MATCHLINE 40+00 SEE SHEET 15

MATCHLINE 50+50 SEE SHEET 17



PROPOSED 30" HDPE AT STA. 41+73.87, PATH 3  
SCALE: HORZ. 1" = 5' VERT. 1" = 5'



Legend

- - - Existing Path
- █ Proposed Path
- Existing Tree
- - - Existing 5' Contour
- - - Existing 1' Contour
- - - Proposed 5' Contour
- - - Proposed 1' Contour
- - - Property Line
- - - Adjacent Property Line
- - - Sanitary Sewer
- - - Non-Tidal Wetland
- - - (Approx.) Stream Buffer
- Trees larger than 6"
- Trees larger than 24"

NOTES:

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BEFORE BEGINNING CONSTRUCTION  
CONTACT  
"MISS UTILITY"  
AT  
1-800-257-7777  
AT LEAST 48 HOURS  
PRIOR TO EXCAVATION

PREPARED BY:  
**PHOENIX ENGINEERING, INC.**  
CONSULTING ENGINEERS  
1420 JOH AVE, SUITE A  
BALTIMORE, MARYLAND 21227  
(410) 247-8833 FAX 247-9397

DESIGN			
Designer's	Landscape Architect	Date	Checked By
Address	Architect	Date	Checked By
City/State/Zip	Engineer	Date	Checked By
Telephone Number	Drawn by	Date	Checked By

Professional Certification - I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 14920  
Expiration Date 5/12/12



**The Maryland-National Capital Park and Planning Commission**  
Montgomery County Department of Parks  
9500 Brunnet Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535  
Construction Manager, Robert Kane (301) 495-2555

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON	
Project Manager	Date	Rev. No.	Date
Construction Manager	Date		
Park Manager	Date		

**Trail #3 Site Development Plan**  
40+00 to 50+50  
Black Hill Regional Park  
Hard Surface Trail Renovations  
SCALE: 1"=30' Liber Folio

SC # 11 of 28  
SHT # 16 of 56

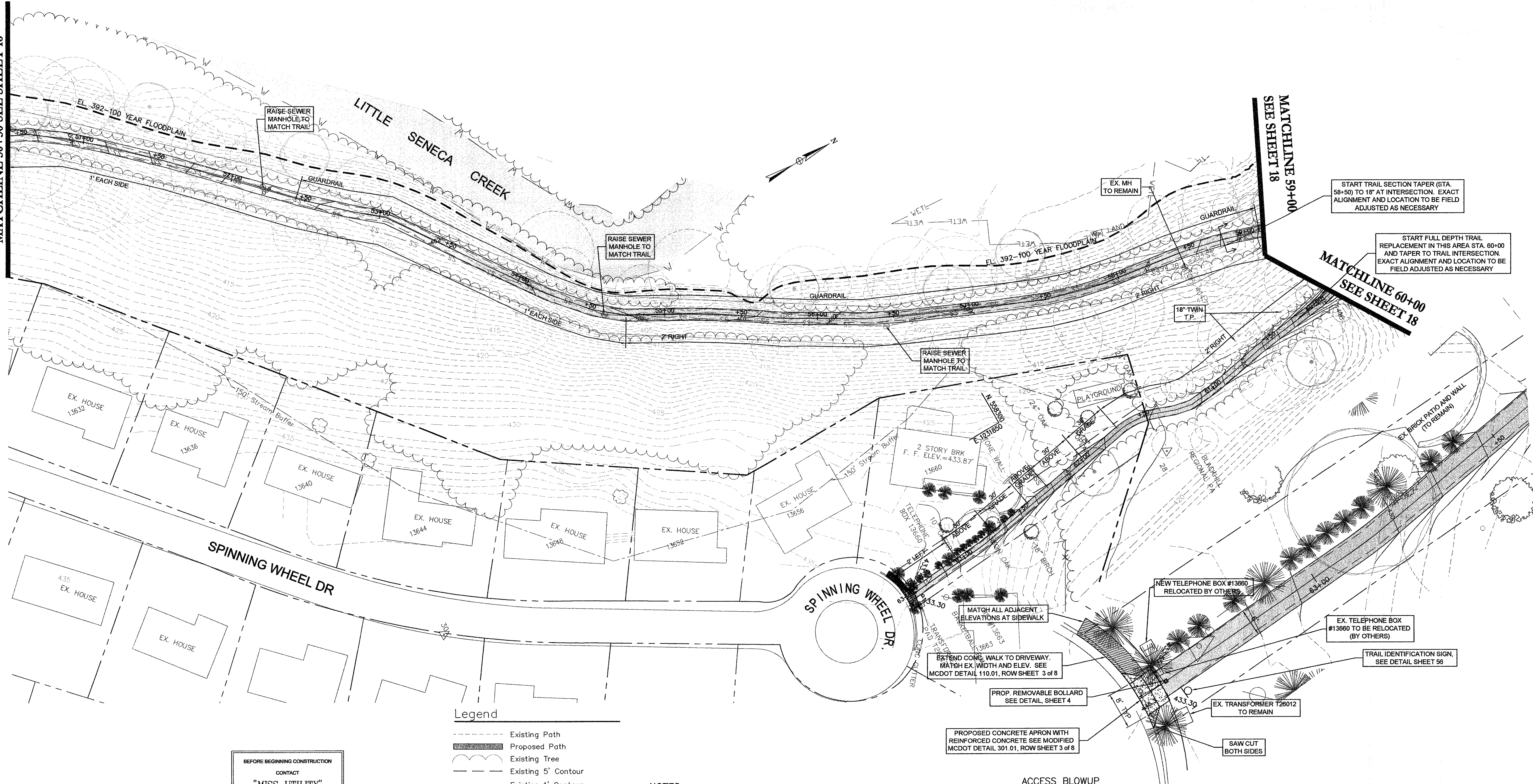
MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		
Stormwater Management	Sediment Control Technical Requirements	Administrative Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Reviewed _____ Date _____	Reviewed _____ Date _____	SEDIMENT CONTROL PERMIT NO. 215725
SM FILE # 210978		

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.  
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED UNLESS THE PERMIT HAS BEEN EXTENDED.

MATCHLINE 50+50 SEE SHEET 16

MATCHLINE 59+00 SEE SHEET 18

MATCHLINE 60+00 SEE SHEET 18



START TRAIL SECTION TAPER (STA. 58+50) TO 18' AT INTERSECTION. EXACT ALIGNMENT AND LOCATION TO BE FIELD ADJUSTED AS NECESSARY

START FULL DEPTH TRAIL REPLACEMENT IN THIS AREA STA. 60+00 AND TAPER TO TRAIL INTERSECTION. EXACT ALIGNMENT AND LOCATION TO BE FIELD ADJUSTED AS NECESSARY

- Legend**
- Existing Path
  - Proposed Path
  - Existing Tree
  - Existing 5' Contour
  - Existing 1' Contour
  - Proposed 5' Contour
  - Proposed 1' Contour
  - Property Line
  - Adjacent Property Line
  - SS Sanitary Sewer
  - Non-Tidal Wetland
  - (Approx.) Stream Buffer
  - Trees larger than 6"
  - Trees larger than 24"

BEFORE BEGINNING CONSTRUCTION  
CONTACT  
"MISS UTILITY"  
AT  
1-800-257-7777  
AT LEAST 48 HOURS  
PRIOR TO EXCAVATION

**NOTES:**

1. For the majority of the project, the proposed trail alignment shall follow the existing alignment both vertically and horizontally. In cases where the existing alignment does not conform with the guidelines for accessible trails, the alignment shall be modified.
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ACCESS BLOWUP  
Scale: 1" = 10'

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		
Stormwater Management	Sediment Control Technical Requirements	Administrative Requirements
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
SEDIMENT CONTROL PERMIT NO. _____		
215725		
SM FILE # 210978		

PREPARED BY:  
**PHOENIX ENGINEERING, INC.**  
CONSULTING ENGINEERS  
1420 JOH AVENUE, SUITE A  
BALTIMORE, MARYLAND 21227  
(410) 247-8833 FAX 247-9397



DESIGN			
Designer's	Landscape Architect	Date	Checked By
Address	Architect	Date	Checked By
City/State/Zip	Engineer	Date	Checked By
Telephone Number	Drawn by	Date	Checked By

**Professional Certification** - I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 14920  
Expiration Date 5/12/12



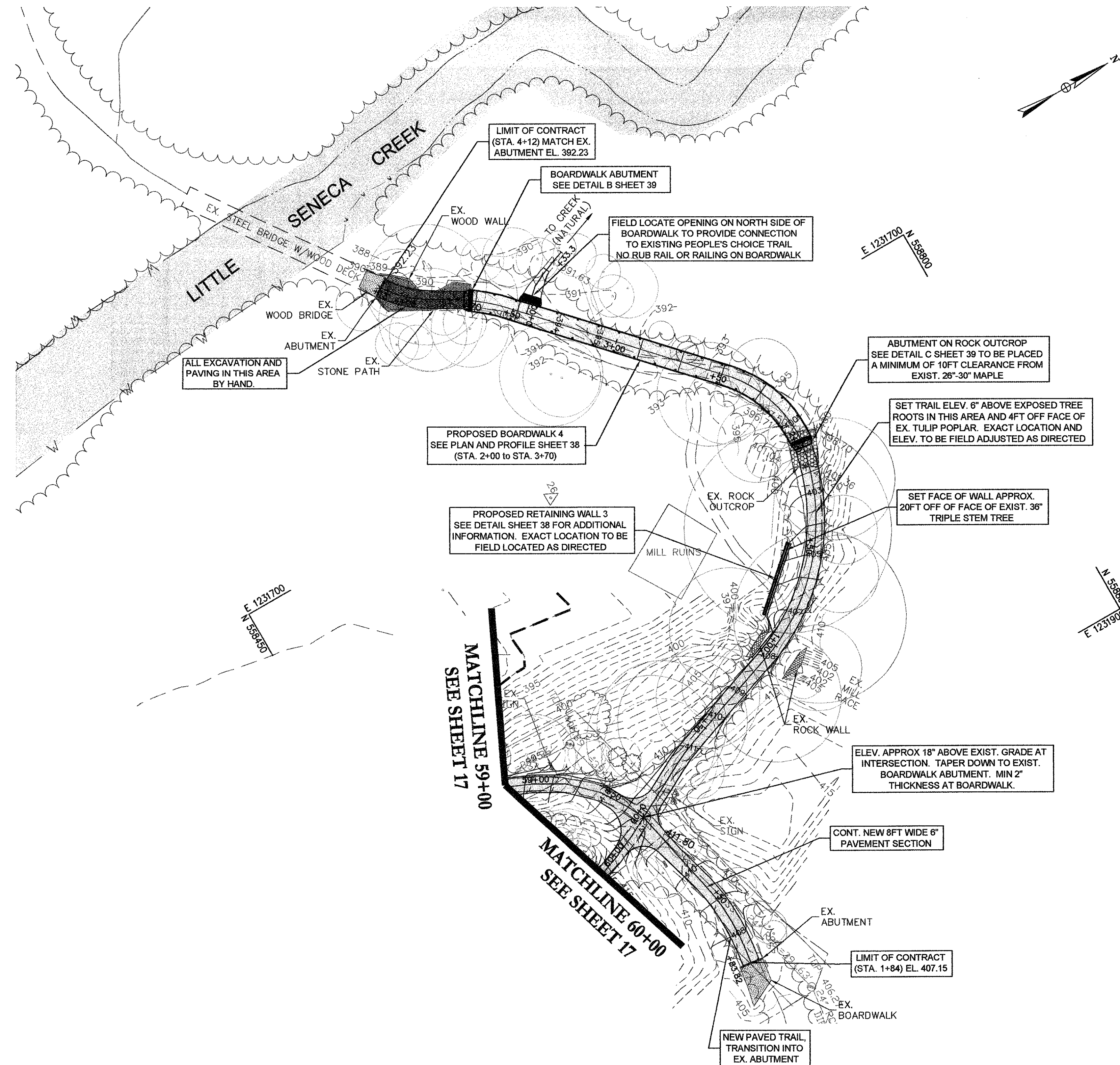
**The Maryland-National Capital Park and Planning Commission**  
Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535  
Construction Manager, Robert Kane (301) 495-2555

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON	
Project Manager	Date	Rev. No.	Date
Construction Manager	Date		
Park Manager	Date		

**Trail #3 Site Development Plan**  
50+50 to 63+05  
Black Hill Regional Park  
Hard Surface Trail Renovations

SCALE: 1"=30' Liber Folio

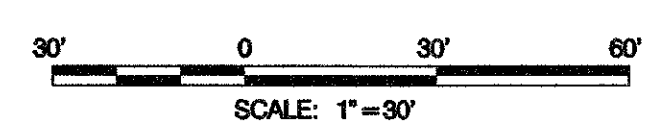
SC # 12 of 28  
ROW # 8 of 8  
SHT # 17 of 56



**Legend**

- - - Existing Path
- - - Proposed Path
- - - Proposed Boardwalk
- Existing Tree
- - - Existing 5' Contour
- - - Existing 1' Contour
- - - Proposed 5' Contour
- - - Proposed 1' Contour
- - - Property Line
- - - Adjacent Property Line
- - - SS Sanitary Sewer
- - - Non-Tidal Wetland
- - - (Approx.) Stream Buffer
- Trees larger than 6"
- Trees larger than 24"

- NOTES:**
- For the majority of the project, the proposed trail alignment shall follow the existing alignment both vertically and horizontally. In cases where the existing alignment does not conform with the guidelines for accessible trails, the alignment shall be modified.
  - Prior to vegetative stabilization, all disturbed areas must be topsoiled per the Montgomery County "Standards and Specifications for Topsoil".
  - Contractor shall fine-grade all trail areas so that no concentrated flow occurs.
  - No swales shall be constructed or graded along trail edges unless specifically directed.
  - In places where boardwalk is to be installed, a 12' mulch mat road is to be installed prior to any boardwalk construction.



BEFORE BEGINNING CONSTRUCTION CONTACT  
**"MISS UTILITY"**  
 AT  
**1-800-257-7777**  
 AT LEAST 48 HOURS PRIOR TO EXCAVATION

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		
Stormwater Management	Sediment Control Technical Requirements	Administrative Requirements
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Reviewed _____ Date _____	Reviewed _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
		215725

SM FILE # 210976

PHOENIX ENGINEERING, INC.  
 CONSULTING ENGINEERS  
 1420 JOHN AVENUE, SUITE A  
 BALTIMORE, MARYLAND 21227  
 (410) 247-8833 FAX 247-9397

DESIGN			
Designer's	Landscape Architect	Date	Checked By
Address	Architect	Date	Checked By
City/State/Zip	Engineer	Date	Checked By
Telephone Number	Drawn by	Date	Checked By

**Professional Certification.** I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 14920  
 Expiration Date 5/12/12

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 Montgomery County Department of Parks  
 9500 Brunnet Avenue  
 Silver Spring, Maryland 20901  
 (301) 495-2535  
 Construction Manager, Robert Kane (301) 495-2555

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON	
Project Manager	Date	Rev. No.	Date
Construction Manager	Date		
Park Manager	Date		

**Trail #4 Site Development Plan**  
 0+00 to 4+13  
 Black Hill Regional Park  
 Hard Surface Trail Renovations

SCALE: 1"=30'      Liber      Folio

SC # 13 of 28  
 SHT # 18 of 56