

CITY OF CHARLES TOWN

PLANNING COMMISSION AGENDA • JULY 24, 2023

Committee Meeting

CITY HALL

7:00 PM

1

101 E Washington Street, Charles Town, WV 25414

1. CALL TO ORDER

2. APPROVAL OF MINUTES

2.1 : Draft Minutes: June 26, 2023
Draft Meeting Minutes 6-26-23.docx

3. UNFINISHED BUSINESS

4. **NEW BUSINESS**

- 4.1 : WV2023-05: Waiver from traffic study requirements
 - 1. Staff Report.pdf
 - 2. Application.pdf
 - 3. Narrative.pdf
 - 4. Support Documents.pdf
 - 5. Approved Sketch Plan.pdf
- 4.2 : BR2023-03: Norborne Glebe Recreational Facilities Bond Initiation
 - 1. Staff Report.pdf
 - 2. Application.pdf
 - 3. Bond Estimate.pdf
 - 4. KH Review.pdf
 - 5. Preliminary Plans.pdf
- 4.3 : SLD2023-07: Happy Retreat Sketch Plan
 - 1. Staff Report.pdf
 - 2. Application.pdf
 - 3. KH Review.pdf
 - 4. Plans.pdf

5. ADJOURNMENT

6. NOTICE: The Public May View the Meeting Live by Clicking on the Event Link at:

https://www.charlestownwv.us/government/agendas-and-minutes/



Planning Commission 101 East Washington Street Charles Town, WV 25414

SCHEDULED

Meeting: 07/24/23 Department: Planning Commission Category: Report Initiator:

AGENDA ITEM (ID #)

Draft Minutes: June 26, 2023

ATTACHMENTS:

• Draft Meeting Minutes 6-26-23.docx



CITY OF CHARLES TOWN

PLANNING COMMISSION MEETING

MINUTES • June 26, 2023

Regular Meeting Council Chambers 7:00 PM

101 East Washington Street, Charles Town, WV 25414

1) CALL TO ORDER

Present: Jessica Derr – Acting Chair

Kevin Long

Jeff Hynes

Absent: Ann Paonessa, Angie Cummings

Meeting started at 7:00 pm.

2) APPROVAL OF MINUTES

2.1: May 22 minutes

- Pg. 1: Chair Derr noticed an issue with a vote count, and asked staff to verify.

Motion to approve minutes subject to staff verifying the vote counts:

RESULT: APPROVED [UNANIMOUS]

MOVER: Jeff Hynes

SECONDER: Kevin Long

AYES: Jessica Derr, Kevin Long, Jeff Hynes

3) UNFINISHED BUSINESS

No unfinished business.

4) **NEW BUSINESS**

4.1 WV-2023-04: Public Hearing: Ali Hadavand. Casino parking requirements waiver.

Staff gave a presentation.

Off-street parking requirements for casino facilities are 35.3 spaces per every 1,000 sq ft. of gross floor area, and 1.42 spaces per gaming position. Based on Subdivision Code requirements, 44 parking spaces must be provided. Applicant seeks to have 10 spaces.

Motion to open public hearing.

RESULT: APPROVED

MOVER: Jeff Hynes

SECONDER: Kevin Long

AYES: Kevin Long, Jessica Derr, Jeff Hynes

Public comments: No public comments.

Motion to close public hearing.

RESULT: APPROVED

MOVER: Kevin Long

SECONDER: Jeff Hynes

AYES: Jeff Hynes, Kevin Long, Jessica Derr

Staff discussion: Not enough parking spots for employees.

Motion to approve the requested waiver, subject to the condition that the total number of parking spaces be at least 12:

RESULT: APPROVED

MOVER: Jeff Hynes

SECONDER: Kevin Long

AYES: Jeff Hynes, Kevin Long, Jessica Derr

4.2 BR2023-02: Public Hearing: Stanley Martin Homes LLC. Application for bond initiation for their Stone Springs project.

Staff gave a presentation.

Applicant requests a master bond in the amount of \$12,633,605.45. Phase One of this bond will be at \$5,029,592.24.

Motion to open public hearing.

RESULT: APPROVED [UNANIMOUS]

MOVER: Kevin Long

SECONDER: Jeff Hynes

AYES: Jeff Hynes, Kevin Long, Jessica Derr

Public comments: No public comments.

Motion to close public hearing.

RESULT: APPROVED [UNANIMOUS]

MOVER: Kevin Long

SECONDER: Jeff Hynes

AYES: Jeff Hynes, Kevin Long, Jessica Derr

Motion to recommend approval of the bond request:

RESULT: APPROVED

MOVER: Kevin Long

SECONDER: Jeff Hynes

AYES: Kevin Long, Jessica Derr, Jeff Hynes

4.3 SLD2023-06/Tri-State Investment Properties LLC: A sketch plan for the existing daycare facility.

Applicant seeks to expand daycare use on site.

Commissioners asked the applicant about staff-to-student ratio requirements. Applicant states that it depends on age range.

Motion to open public hearing.

RESULT: APPROVED [UNANIMOUS]

MOVER: Jeff Hynes

SECONDER: Kevin Long

AYES: Jeff Hynes, Jessica Derr, Kevin Long

No comments.

Motion to close public hearing.

RESULT: APPROVED [UNANIMOUS]

MOVER: Kevin Long

SECONDER: Jeff Hynes

AYES: Jeff Hynes, Jessica Derr, Kevin Long

Commissioners posed additional questions of how many infants would attend the daycare. Staff confirmed that parking requirements are based on number of students.

Motion to approve the application:

RESULT: APPROVED [UNANIMOUS]

MOVER: Jeff Hynes

SECONDER: Kevin Long

AYES: Jeff Hynes, Kevin Long, Jessica Derr

4.4 SLD202206: Preliminary Plan Review: Norborne Glebe Pool

Staff gave a presentation.

Discussion about number of entrances. Applicant stated that the proposed entrance was the only feasible point of entry/exit.

Motion to approve the application, subject to the condition that the lighting be designed with acorn style tops as required by the Subdivision and Land Development Ordinance:

RESULT: APPROVED

MOVER: Kevin Long

SECONDER: Jeff Hynes

AYES: Jeff Hynes, Kevin Long, Jessica Derr

4.5 SLD2023-07: Sketch Plan Completeness Review: Happy Retreat Parking Lot

Staff presentation.

Staff confirms that the property is not within the Historic District. Historic Landmarks Committee has not had any input on the design, as the property does not lie within their jurisdiction.

This item has been reviewed by the City's Parks and Recreation board. Staff stated the item is scheduled for a Council information session in July 2023.

Motion to deem the application complete, subject to the conditions:

- 1. That the HLC be given a complete copy of the application and plans;
- 2. That the item come to the Planning Commission on July 24th for a sketch plan public hearing:

RESULT: APPROVED [UNANIMOUS]

MOVER: Jeff Hynes

SECONDER: Kevin Long

AYES: Jeff Hynes, Kevin Long, Jessica Derr

5) ADJOURNMENT

RESULT: APPROVED [UNANIMOUS]

MOVER: Jeff Hynes

SECONDER: Kevin Long

AYES: Jeff Hynes, Kevin Long, Jessica Derr

Meeting adjourned by Jessica Derr.

6) NOTICE: The Public May View the Meeting Live by Clicking on the Event Link at:

https://www.charlestownwv.us/government/agendas-and-minutes/



Planning Commission 101 East Washington Street Charles Town, WV 25414

Meeting: 07/24/23 Department: Planning Commission Category: Report Initiator:

SCHEDULED

AGENDA ITEM (ID #)

WV2023-05: Waiver from traffic study requirements

ATTACHMENTS:

- 1. Staff Report.pdf
- 2. Application.pdf
- 3. Narrative.pdf
- 4. Support Documents.pdf5. Approved Sketch Plan.pdf



Waiver Request Staff Report WV2023-05

Date: For the July 24th, 2023 Planning Commission meeting

Applicant: Hillside Investments LLC.

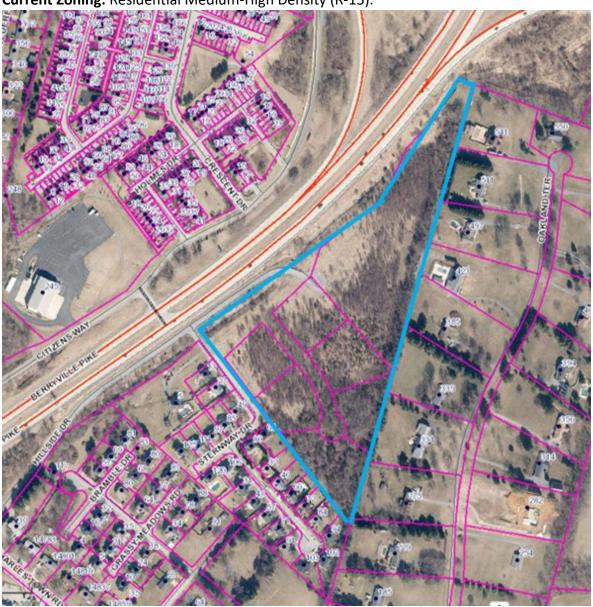
Property Owner: Hillside Investments LLC.

Report by: James Newman, City Planner, Zoning/Subdivision Administrator.

Proposal: Waiver from traffic impact study requirement

Property Location: Located on Hillside Drive. Property roughly outlined in blue below.

Current Zoning: Residential Medium-High Density (R-15).



PROJECT OVERVIEW

The development of 13.71 acres into 128 townhouses.

WAIVER REQUEST

The applicant is requesting a waiver from Subdivision/Land Development Ordinance section 1333.06. This Section requires a traffic impact study when anticipated traffic from a new development crosses certain traffic generation thresholds, or when development is proposed and will impact an intersection with an existing poor level of service.

CITY SUBDIVISION ORDINANCE TRAFFIC STUDY REQUIREMENTS

Section 1333.06, Traffic Management Standards

- (A) Internal circulation. A complete system of internal traffic circulation shall be provided to serve all uses in any shopping center, industrial park or other integrated-use development included in an S/LD Application. In such Subdivisions/Land Developments, internal access shall be provided in a fashion so that all uses can be mutually accessed without entering onto Primary or Major Collector Streets.
- (B) Traffic Impact Study (TIS).
- 1. West Virginia DOH Traffic Engineering Directive 106-1, Procedures for Traffic Impact Studies (or the most recent published version), shall be followed to conduct traffic impact studies, which are required under any of the following conditions:
 - a. When the proposed Subdivision/Land Development is projected to generate 100 or more trips per hour during the peak generating time for the Subdivision/Land Development.
 - b. For smaller Subdivisions/Land Developments, under one of the following three conditions:
 - (1) When the proposed new approach is to an intersection already operating at level of service (LOS) "D" or worse.
 - (2) When the applicant or Developer is requesting a new traffic signal.
 - (3) When modification of an existing traffic signal is being requested.
 - c. An older TIS may need to be updated when the data is more than two years old.
- 2. A traffic impact study may not be required in situations where the West Virginia DOH is agreeable to the proposed mitigation measures without conducting a TIS.

SKETCH PLAN COMPLETENESS

The sketch plan was deemed complete by the Planning Commission on February 27th, 2023.

PLANNING COMMISSION MEETING – MARCH 27, 2023

The Planning Commission discussed the sketch plan at their March 27th meeting. There was public comment, with questions focused on the impact of additional vehicle traffic, and impact on schools. The Commission discussed the item, and granted approval of the electric meter

location waiver. The Commission closed the public hearing and tabled action to the April 24th, 2023 meeting.

PLANNING COMMISSION MEETING – APRIL 24, 2023

The Planning Commission discussed this item at their April 24th meeting. The Commission approved the sketch plan.

PLANNING COMMISSION MEETING – MAY 22, 2023

I provided an update to the Planning Commission on the potential traffic impact of the Hillside project. Based upon the Traffic Study completed by AMT Dated June 1, 2022 for the Kings Crossing residential development just south of Hillside Drive, **the current Level-Of-Service** for the subject intersection (Hillside Drive/Charles Town Road) by approach is:

- i. Eastbound Charles Town Road (AM/PM) LOS A/LOS A (Free Flow Condition)
- ii. Westbound Charles Town Road (AM/PM) LOS A/LOS A (Free Flow Condition)
- iii. Northbound Approach from US 340/Norborne Glebe (AM/PM) LOS D / LOS E (Stop-Controlled)
- iv. Southbound Approach from Hillside Drive (AM/PM) LOS B/LOS C (Stop Controlled)

This is based on current traffic patterns, and **does not include** the potential **development** of **128 townhomes** on Hillside Drive. The May 22, 2023 staff report and all its attachments can be found in the City's minutes stored at: https://www.charlestownwv.us/government/agendas-and-minutes/

LEVEL OF SERVICE

There are 6 levels of service (LoS), ranging from best (LoS A) to worst (LoS F). Per the Kings Crossing traffic impact study, those levels are classified as:

Table 3: Level of Service Criteria

Level of Service	SIGNALIZED Intersection Control Delay (sec/veh)	UNSIGNALIZED Intersection Control Delay (sec/veh)	Intersection LOS Description
Α	<u>≤</u> 10.0	≤ 10.0	Free flow, insignificant delays.
В	10.1-20.0	10.1-15.0	Stable operation, minimal delays.
С	20.1-35.0	15.1-25.0	Stable operation, acceptable delays.
D	35.1-55.0	25.1-35.0	Restricted flow, common delays.
E	55.1-80.0	35.1-50.0	Maximum capacity, extended delays. Volumes at or near capacity. Long queues form upstream from intersection.
F	> 80.0	> 50.0	Forced flow, excessive delays. Represents jammed conditions. Intersection operates below capacity with low volumes. Queues may block upstream intersections.

INTERSECTION VIEW



TRAFFIC IMPACT

Kimley-Horn is an engineering firm that the City hires for project review and analysis, including traffic impact analysis. Per the firm, the most recent version of the Trip Generation Manual by the Institute of Transportation Engineers states that this use would classify this as *Multifamily Housing (Low-Rise - 220)*, which generates the following trips:

Weekday Daily – 7.32 trips per/DU AM Peak Hour – 0.56 trips/DU PM Peak Hour – 0.67 trips/DU Saturday Daily – 8.14 trips/DU

For 128 townhomes, that equates to:

Weekday Daily – 937 trips AM Peak Hour – 72 trips per hour PM Peak Hour – 86 trips per hour Saturday Daily – 1,042 trips

KIMLEY-HORN ANALYSIS

They analyzed the traffic impact study for Kings Crossing and affirmed that the current traffic impact from Hillside Drive is between LoS B/C. The worst LoS is from the northbound ramp off of U.S. Rte. 340 (Berryville Pike) with LoS D/E, and that a traffic study may not be warranted for the impact from Hillside Drive based on the lack of traffic impact from that direction of the intersection.

(See the May 22, 2023 PC meeting packet email from Mark Phillips sent May 17, 2023 3:12:40 PM)

WEST VIRGINIA DIVISION OF HIGHWAYS ANALYSIS

WVDoH notified me via email on May 5, 2023 that:

"Based on the projected trip generation for a development of this size, combined with the projected operation of the currently programmed roundabout, we do not see a need for a TIS for this development.

The City requirement for a TIS seems to be the same as the Division of Highways. If the City requires the developer to complete the TIS, we can review it, but we just ask that the developer contact us to approve the scope before moving forward."

(See the May 22, 2023 PC meeting packet email from Ken Clohan sent May 5, 2023 3:00:34 PM)

WAIVER CRITERIA REVIEW

Per Section 1331.12.B, waivers are:

- 1. Adjustments that may be made to the requirements of this Ordinance to unusual site conditions in order to achieve a better design. Waivers may not be used to circumvent the process requirements of this Ordinance. The Planning Commission shall have the authority to grant a waiver to allow a modification, change, or an alternative solution to a requirement of this Ordinance. Please note that economic hardship along is not sufficient reason to grant an exception from the requirements.
- 2. Waivers from the minimum standards in this Ordinance may be granted by the Planning Commission only when the Planning Commission finds that granting a waiver will be consistent with all of the following criteria and the exception is the minimum necessary to afford relief:

a. That the design of the project will provide public benefit such as a reduction in City maintenance cost, greater open space, parkland consistent with the City parks plan, or benefits of a similar nature;

Per the applicant, the 128 townhomes will provide a benefit in the form of housing choice, and will provide the City with tens of thousands of dollars in fees, such as the \$64,000 payment for fee-in-lieu-of dedicated parkland. The parkland fee, combined with building permit fees of approximately \$3,000 per townhome unit may lead to total fee revenue of over \$400,000 over the course of the project construction lifespan.

Regarding the waiver: a traffic study does not provide a tangible public benefit in the form of additional parkland, or a fiscal benefit in the form of lower maintenance costs or fee collection. A study does provide decision makers and the community with additional information on the impacts of new development, and such knowledge is of benefit to the City as whole.

b. The waiver, if granted, will not adversely affect the public health, safety or welfare, or the rights of adjacent property owners or residents;

Per the applicant, construction on housing will begin in late 2024, with full build-out taking approximately 4 years. With the roundabout scheduled for construction in 2025, the applicant states that the majority of the housing will be built after the roundabout has become operational.

If the waiver is not granted, the applicant must perform a traffic study, which can take a month or more to complete, depending on the scope of the project. There is no guarantee from the applicant that the home will be built after the roundabout is in operation, nor is there a guarantee that the roundabout will be built in early 2025.

c. That the waiver, if granted, will be in keeping with the intent and purpose of this Ordinance;

The Code requirement is that when an intersection suffers from a LoS of D or worse a traffic study is required. The application counters with three points:

- 1. The number of vehicles generated from their proposed 128 townhomes is not sufficient to require a traffic impact study: they do not generate 100+ trips per hour at either morning or evening peak hour.
- 2. The level of service into the intersection generated by Hillside Drive is C or better, and a traffic study is only required when the LoS is D or worse.
- 3. WVDOH does not require a traffic study and states that impacts from traffic will be mitigated by the proposed 2025 roundabout.

Code standards are designed to ensure that the Commission and the public have an informed view on the impacts of proposed development. The purpose of the Subdivision and Land Development Ordinance is to guide future growth and development by regulating the Subdivision and physical Development of land within the jurisdiction of the City of Charles Town for the improvement of the health, safety, comfort, morals, and general public welfare of Charles Town citizens.

d. That the waiver, if granted, will result in a project of better quality and/or character. No process or procedural waivers will be granted.

Per the applicant, granting the waiver will not result in a project of lesser quality. They state that the roundabout will exceed any other possible improvements needed for site or the intersection, and hat it is no apparent that traffic mitigation would even be required for their development impact.

Per the Kings Crossing traffic impact analysis:

"Both the City of Charles Town and Hagerstown/Eastern Panhandle Metropolitan Planning Organization (HEPMPO) prefer the installation of a roundabout at the Route 115 & Hillside Drive & US-340 NB ramps intersection, which operates with deficiencies under existing and background conditions. A preliminary cost estimate provided by WVDOH indicates the cost of a roundabout at this location would be approximately \$950,000.

Per discussions with WVDOH, the applicant is willing to make a one-time contribution of \$50,000 to a future intersection improvement at the Route 115 & Hillside Drive & US-340 NB ramps intersection once a project is formally programmed. No other improvements to the roadway network are recommended with the Magnolia Springs development."

CONCLUSION

Code standards are designed to ensure that the Commission and the public have an informed view on the impacts of proposed development. The level of service at the Hillside Drive/Charles Town Road meets the requirements for a traffic study: the level of service is 'E' for north-bound during peak evening hours. Additional traffic from Hillside will deteriorate that level of service; the magnitude of that impact will be unknown unless a traffic study is performed.

WVDoH states that based on the projected trip generation for a development of this size, combined with the projected operation of the currently programmed roundabout, they do not see a need for a traffic study for this development. The construction of a roundabout at that intersection would ameliorate traffic problems, as pointed out by WVDoH and Kimley-Horn. The roundabout will have a completion date of 2025.

If the waiver is <u>denied</u>, the applicant must perform a traffic study. This will provide additional information for the Planning Commission as they review the preliminary plan, will provide additional information to the Division of Highways as they program their roundabout schedule,

and adjacent property owners will have a better understanding of the impact to their neighborhood.

If the waiver is <u>approved</u>, the applicant may proceed to the preliminary plan review stage.

RECOMMENDATION

Approval of the waiver request subject to conditions. The applicant states in their narrative that traffic mitigation improvements usually required when approximately 30% of the development is built. They also state that by 2025 only a small fraction of this development will actually have homes under construction.

The proposed condition is:

 Certificates of Occupancy for the dwelling units will not be issued prior to the completion and operation of the traffic circle at the intersection of Hillside Drive and Charles Town Road/Route 115.

The project meets the requirements for a traffic study, and the construction of the new units will begin before the completion of the traffic circle. The proposed condition will ensure that limited traffic (construction traffic) is generated by this project prior to the completion of the traffic circle. The applicant will not have to perform a traffic study and will be able to grade the site and build units, and the residential vehicular impact of the new development will be mitigated by the traffic circle.

The Commission may:

- 1. Approve the waiver.
- 2. Approve the waiver with conditions.
- 3. Deny the waiver.
- 4. Table action to a later date.

Per Ordinance, the Planning Commission shall make a decision within 45 days of the receipt of the request for waiver. In granting a waiver, the Planning Commission may prescribe any conditions and safeguards that it finds are appropriate and in conformity with this Ordinance.

JUN 0 1 2023

BY: MUF



WAIVER APPLICATION

SUBDIVISION AND LAND DEVELOPMENT ORDINANCE SECTION 1331.12, (V) REQUIREMENTS

To assist staff in the review of a waiver application to the Planning Commission (PC), the applicant must supply all of the information contained in this application form. This application must be signed by all owners of the real estate which is the subject of the application. The owners may designate one or more professional agents to represent them in the application process using the spaces provided on this form.

Incomplete applications will be subject to scheduling delay. Applicants are encouraged to meet with staff prior to filing. A public hearing will be scheduled within 45 days of the receipt of a completed application.

Approval of a waiver by the Planning Commission does not relieve the applicant from other requirements including, but not limited to, signs(s), building, zoning and use permits or site plans.

As part of this application, the following must be provided:

- 1. \$150.00 Application Fee.
- 2. A Completed Application.
- 3. As applicable, supporting documents included, but not limited to site plan or depiction of the requested Waiver.

It is the applicant's responsibility to make a good-faith effort to provide the Subdivision Administrator, as applicable, with a current list containing the accurate names and mailing addresses of all interested parties. For purposes of this provision, "interested parties" shall mean Landowners of Adjacent Property. The applicant shall provide the addresses in order to comply with Section 1331.12.B of the Subdivision Ordinance

Legal Notices

The following shall occur at least 15 days prior to the Public Hearing: notice of the hearing shall be advertised by the Planning Commission as a Class I legal advertisement in the local newspaper, posting of a sign upon the property, and letters to adjacent and confronting land owners within 100 feet of the subject property.

Definition of a Waiver

Adjustments that may be made to the requirements of this Ordinance to unusual site conditions in order to achieve a better design. Waivers may not be used to circumvent the process requirements of this Ordinance.

The Charles Town Subdivision Ordinance

To grant a Waiver as permitted in the Subdivision Ordinance, the Planning Commission makes findings as specified in Section 1331.12(B)(2).

In order to issue a Waiver, the Commission must make the following written findings regarding the Waiver sought and all of the following can be met:

A waiver request may be granted by the Planning Commission only when it shall be determined that:

- That the design of the project will provide public benefit such as a reduction in City maintenance cost, greater open space, parkland consistent with the City parks plan, or benefits of a similar nature;
- 2. The waiver, if granted, will not adversely affect the public health, safety or welfare, or the rights of adjacent property owners or residents;
- 3. That the waiver, if granted, will be in keeping with the intent and purpose of this Ordinance; and
- 4. That the waiver, if granted, will result in a project of better quality and/or character.

Note:

Additional exhibits may be required by the Subdivision Administrator or Planning Commission such as a lot location survey or site plan showing existing and proposed Structures, easements, watercourses, curb cuts and description of the uses of adjacent property that are necessary to describe existing or proposed conditions.

1. DATE <u>June 1</u> , 20 <u>23</u>
2. APPLICANT'S NAME* H: 115: de Investments, LLC
Address: 4185, Samuel Street Charles Town, WU
Telephone Number (36) 671-5262 Fax Number ()
Email Address mrconstructionwu@gmail.com
3. PROPERTY OWNER'S NAME Mark Roper and John Thomas
Address: 418 S. Samuel St. Charles Town, WV
Telephone Number (30) 671-5262 Fax Number ()
Email Address <u>mrconstructionwv@gnail.com</u>
4. LEGAL DESCRIPTION OF THE SUBJECT PROPERTY (list all parcels that apply)
Property Address: M/A (Vacant)
Tax Map # and Parcel: <u>See a Hache</u>
Deed Book and Page #: See attached
Property Area in Square Feet or Acres: 13.71 acres (7.4al)
5. DESCRIPTION OF THE EXISTING (OR FORMER) USE(S) OF THE PROPERTY AND CURRENT ZONING:
Vacant and Zoned Residential Medium-High Density
Formerly Zoned General Commercial
6. DESCRIPTION OF PROJECT AND PROPOSED USE(S) OF THE PROPERTY: See a Hached.
*Applicants include: Property owner(s), Engineer(s), Surveyor(s), or Consultant(s)

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JANUARY 2019

CITY OF CHARLES TOWN | PC - WAIVER APPLICATION

7.	DESCRIPTION OF ANY PROPOSED WORK TO BE DONE TO THE PROPERTY:
	See a Hached
8.	DESCRIPTION OF THE WAIVER REQUEST: See a Hached.
9.	LIST THE APPLICABLE SECTION(S) OF THE SUBDIVISION ORDINANCE FROM WHICH THE WAIVER IS REQUESTED: See a Hacked
0.	JUSTIFICATION FOR THE REQUEST:
	A) Explain how the design of the project will provide public benefit such as a reduction in City maintenance costs, greater open space, parkland consistent with the City Parks Plan or benefits of a similar nature; See a Hackel
	B) Explain how the waiver, if granted, will not adversely affect the public health, safety, welfare or the rights of adjacent property owners or residents;
	See attachel.

C) Explain how the waiver, if granted, will be in keeping with the intent and purpose of Ordinance; and;		
See attached.	-	
D) Explain how the waiver, if granted, will result in a project of better quality and/or character	— ∋r.	
Seeattached	_	
	=	
INTERESTED PARTY ADDRESSES FOR PUBLIC NOTICE (including across street	at)	

INTERESTED PARTY ADDRESSES, FOR PUBLIC NOTICE (including across street)
 (Interested parties are defined as adjacent properties within 100 feet).

Owner	# and Street	City, State, Zip
See attached -		

Application No.	Project Name and Phase	Status	Approval Date
See atlach			
			-
No.			
≥ No			
≥ No	1)		
No No			
ĭ No			
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M No			
S No			

APPLICANT CERTIFICATION

I certify that, to the best of my knowledge, the submitted information and statements are true and correct. I also certify that I have received and read Section 1331.12 of the Charles Town S/LD Ordinance and relevant provisions of the Charles Town City Code.

Signature of Applicant
Male-192 Date 6-1-2023
Signature of Property Owner (If different than Applicant)
Date
Please submit an original completed Application and specified number of Site Plan copies to the following:
Subdivision Administrator
City of Charles Town
101 E. Washington Street
Charles Town, WV 25414

FOR CITY USE ONLY			
Application Number:	Date Application Received:		
Fee: \$ Paid:\$	Check No		
Receipt No			
Subdivision Administrator Approval:	Date:		
Planning Commission Approval:	Date:		
Comments/Conditions:			
9			

Hillside Townhome Waiver Request

4. LEGAL DESCRIPTION OF THE SUBJECT PROPERTY

TAX MAP # AND PARCEL

TD: 03 / Map: 9 / Pcl: 0067.0000 TD: 03 / Map: 9B / Pcl: 0001.0000 TD: 03 / Map: 9B / Pcl: 0002.0000 TD: 03 / Map: 9B / Pcl: 0003.0000 TD: 03 / Map: 9B / Pcl: 0004.0000 TD: 03 / Map: 9B / Pcl: 0005.0000 TD: 03 / Map: 9B / Pcl: 0006.0000

DEED BOOK AND PAGE #

1280/706

1280/704

1280/704

1280/702

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1280/702

1280/702

6. DESCRIPTION OF PROJECT AND PROPOSED USE(S) OF THE PROPERTY:

Applicant is proposing no more than 128 townhomes on a 13.71-acre parcel of land. Development will include open space, a tot lot, bus shelter, and buffers to surrounding properties.

7. DESCRIPTION OF ANY PROPOSED WORK TO BE DONE TO THE PROPERTY:

Convert vacant property into townhome development. All grading, stormwater management, site improvements, and bonding will be in compliance with the land development requirements of the City of Charles Town.

8. DESCRIPTION OF THE WAIVER REQUEST:

An application for a subdivision proposal prompts the requirement for a traffic impact study (TIS) according to Section 1333.06 the Charles Town Subdivision Ordinance (Bold has been added):

Section 1333.06. Traffic Management Standards

- (B) Traffic Impact Study (TIS).
 - 1. West Virginia DOH Traffic Engineering Directive 106-1, Procedures for Traffic Impact Studies (or the most recent published version), shall be followed to conduct traffic impact studies, which are required under any of the following conditions:

- a. When the proposed Subdivision/Land Development is projected to generate 100 or more trips per hour during the peak generating time for the Subdivision/Land Development. (PROJECT DOES NOT MEET THIS STANDRD)
- b. For smaller Subdivisions/Land Developments, under one of the following three conditions:
 - (1) When the proposed new approach is to an intersection already operating at level of service (LOS) "D" or worse. (PROJECT DOES MEET THIS STANDRD)
 - (2) When the applicant or Developer is requesting a new traffic signal. (PROJECT DOES NOT MEET THIS STANDRD)
 - (3) When modification of an existing traffic signal is being requested. (PROJECT DOES NOT MEET THIS STANDRD)
- c. An older TIS may need to be updated when the data is more than two years old. (PROJECT DOES NOT MEET THIS STANDRD)
- 2. A traffic impact study may not be required in situations where the West Virginia DOH is agreeable to the proposed mitigation measures without conducting a TIS. (WVDOH HAS NOT PROPOSED AN ALTERATIVE MITIGATION OPTION)

The intersection of Hillside Drive and Route 115 (Charles Town Road, *i.e.*, Old Rt. 9) does meet the level of service "D." This level of service "D" is only from one direction and that is the from the off/on ramp when coming off of US340 as shown in red below. All other directions the level of service is a "C" or better. This information comes from the Kings Crossing Residential Development traffic study that was completed on June 1, 2022, and is found on page 4 of the staff report, titled "Traffic Study Update," prepared for the May 22, 2023, Planning Commission meeting (attached at end of this report).



The following are email communications from both the WVDOH and the City's contract engineer noting that a traffic impact study will not result in any required improvements for the Hillside Townhome development.

- In an email, Ken Clohan, Traffic Engineer for the WV Department of Highways, stated, "Based on the projected trip generation for a development of this size, combined with the projected operation of the currently programmed roundabout, we do not see a need for a TIS for this development." (see attached email communication)
- The City's contract engineer, Mark Phillips, with Kimely-Horn, also notes "With the roundabout in place at Hillside Drive and Charles Town Road the traffic impacts are mitigated and the LOS improved." (see attached email communication)
- In another email communication, the City's contract engineer also wrote (parenthesis added for clarity of the message) "Yes, for the northbound approach (requiring a traffic impact study)." "So, we could try to put them on the line to do one for that. But it would be a tough sell since their contribution to that movement may not be much." (see attached email communication)

Based on e-mail communications from WVDOH and the City's engineer, both independent entities seem to agree that a traffic impact study would not be warranted as it would not result in necessary required improvements for the Hillside development. This seems to be based of three principal factors:

 The number of vehicles from the Hillside development itself will not trigger improvements.

- LOS D is only from one direction and that is a short on/off ramp. Charles Town Road operates at a level of service "A" – traffic flows freely in both directions. Exiting Hillside Drive is rated level of service "C".
- A roundabout will be installed by the WVDOH. The WVDOH has accepted the Kings Crossing Traffic Study, which clearly notes that no improvements are needed at this intersection due to the fact that the WVDOH will be installing a roundabout.

9. LIST THE APPLICABLE SECTION(S) OF THE SUBDIVISION ORDINANCE FROM WHICH THE WAIVER IS REQUESTED:

Standards found in Article 1333.06(B)(1)(b)(1) Traffic Management Standards. This subsection requires a traffic impact study (TIS) when the "When the proposed new approach is to an intersection already operating at level of service (LOS) "D" or worse.

10. JUSTIFICATION FOR THE REQUEST:

A) Explain how the design of the project will provide public benefit such as a reduction in City maintenance costs, greater open space, parkland consistent with the City Parks Plan or benefits of a similar nature;

The proposed Hillside development will provide a public benefit in the form of a townhome community offering needed dwelling units in the City. The applicant will be making a payment in the amount of \$500.00 per unit to the City to be used for parks and recreation amenities. The anticipated sum for the one-time payment is \$64,000.00, based upon the projected number of townhomes in the development. The applicant will be providing open space in the development with a tot-lot and bus shelter for the residents of this development and the adjacent development to use. The city does not maintain the state roads, as such the city maintenance cost is neutral.

B) Explain how the waiver, if granted, will not adversely affect the public health, safety, welfare or the rights of adjacent property owners or residents;

The waiver will not affect the public health, safety, welfare or the rights of adjacent property owners or residents since the West Virginia Department of Highways will be installing a roundabout in 2025. This roundabout will be installed before this development has many homes under construction. Construction of new homes will not start until late 2024. This development will take approximately 4 years to build out to full completion. Traffic improvements are typically not required to be installed with the first home being constructed. Traffic improvements are usually required when approximately 30% of the development is built. By 2025, only a small fraction of this development will actually have homes under construction. Any improvements that MAY have been required by a traffic impact study would not be installed until possibly 2026 based upon the foregoing statement. As previously mentioned, the roundabout will already have been installed in this location in 2025. Further, as detailed in emails provided, the WVDOH and City engineer implied that no improvements would be identified in a traffic impact study.

C) Explain how the waiver, if granted, will be in keeping with the intent and purpose of this Ordinance; and;

The intent and purpose of the Ordinance is to provide for adequate traffic improvements when a development is proposed. There are reasons the subdivision ordinance requires a traffic impact study when there is a level of service "D" or worse. The logic does not apply to this development for the reasons noted, hence the request for the waiver. Additionally, this development does not meet the 100 peak hour traffic trips that typically indicates the need for a traffic impact study. Again, the WVDOH and City engineer implied that no required improvements would be identified in a traffic impact study. By the time this development even begins to have a modest increase in traffic, the roundabout will be installed, and it will more than adequately handle the relatively limited number of vehicle trips from this development.

D) Explain how the waiver, if granted, will result in a project of better quality and/or character.

Granting the waiver will not result in a project of lesser quality. Any traffic improvement that MIGHT be identified for this development would not include a roundabout. The roundabout that is slated for this intersection will exceed any possible improvements and the roundabout will be installed *before* this development would be required to make any improvements, if such improvements are even identified.

11. INTERESED PARTY ADDRESSES, FOR PUBLIC NOTICE

Owner	# and Street	City, State, Zip
MOWERY GLENN M JR & DIANE C	5 STERNWAY DR	CHARLES TOWN, WV 25414
GLENN ROBERT E & KESHA	13 STERNWAY DR	CHARLES TOWN, WV 25414
SMITH GARY N	27 STERNWAY DR	CHARLES TOWN, WV 25414
DAVIS DANEESHA R	49 STERNWAY DR	CHARLES TOWN, WV 25414
SULLIVAN DAVID A	85 STERNWAY DR	CHARLES TOWN, WV 25414
MAYAH CHARLES P & MARGARET K	66 STERNWAY DR	CHARLES TOWN, WV 25414
DOUGHERTY JAMES F & CATHERINE M	80 STERNWAY DR	CHARLES TOWN, WV 25414
POTTER SUSAN B	32 EDAW DR	CHARLES TOWN, WV 25414
DELANEY ROBERT N & LAURIE L	46 EDAW DR	CHARLES TOWN, WV 25414
UBERT JUSTIN & REBECCA	60 EDAW DR	CHARLES TOWN, WV 25414
OWEN PETER G & LEIGH A	72 EDAW DR	CHARLES TOWN, WV 25414
PATTERSON BRITNEY	84 EDAW DR	CHARLES TOWN, WV 25414
TROXEL ANTHONY T & BETHANY	94 EDAW DR	CHARLES TOWN, WV 25414
WALTERS JOHN G	229 OAKLAND TER	CHARLES TOWN, WV 25414

HIPSLEY GLENN A & SUSAN	275 OAKLAND TER	CHARLES TOWN, WV 25414
MCMILLAN BARBARA E & JOHN E	331 OAKLAND TER	CHARLES TOWN, WV 25414
MATTHEWS MARC F & LISA C	339 OAKLAND TER	CHARLES TOWN, WV 25414
SPITZER KAY S	385 OAKLAND TER	CHARLES TOWN, WV 25414
GRENIER TRAVIS E & SHELLEY L	423 OAKLAND TER	CHARLES TOWN, WV 25414
TRUMAN SCOTT A & DONNA S	497 OAKLAND TER	CHARLES TOWN, WV 25414
GRIMES WILEY E & PENNY	541 OAKLAND TER	CHARLES TOWN, WV 25414

12. PARCEL HISTORY

Application No.	Project Name/Phase	Status	Approval Date
ZMA 2022-02	Rezoning	Approved	12/5/2022
SLD 2022-04	Sketch Plan	Approved	4/24/2023

- (A) Internal circulation. A complete system of internal traffic circulation shall be provided to serve all uses in any shopping center, industrial park or other integrated-use development included in an S/LD Application. In such Subdivisions/Land Developments, internal access shall be provided in a fashion so that all uses can be mutually accessed without entering onto Primary or Major Collector Streets.
- (B) Traffic Impact Study (TIS).
- 1. West Virginia DOH Traffic Engineering Directive 106-1, Procedures for Traffic Impact Studies (or the most recent published version), shall be followed to conduct traffic impact studies, which are required under any of the following conditions:
 - a. When the proposed Subdivision/Land Development is projected to generate 100 or more trips per hour during the peak generating time for the Subdivision/Land Development.
 - b. For smaller Subdivisions/Land Developments, under one of the following three conditions:
 - (1) When the proposed new approach is to an intersection already operating at level of service (LOS) "D" or worse.
 - (2) When the applicant or Developer is requesting a new traffic signal.
 - (3) When modification of an existing traffic signal is being requested. c. An older TIS may need to be updated when the data is more than two years old.
- 2. A traffic impact study may not be required in situations where the West Virginia DOH is agreeable to the proposed mitigation measures without conducting a TIS.

KIMLEY-HORN REVIEW OF KINGS CROSSING TRAFFIC STUDY

On May 9th, I sent Kimley-Horn the King's Crossing traffic study, and had three questions. The questions are in bold, with responses following:

- "1. What is the current level of service for the intersection of Hillside Drive/Charles Town Road?
 - a. Based upon the Traffic Study completed by AMT Dated June 1, 2022 for the Kings Crossing Residential Development the current LOS for the subject intersection by approach is as follows (Page 52 Table 4 2021 Existing Conditions Analysis):
 - i. Eastbound Charles Town Road (AM/PM) LOS A/LOS A (Free Flow Condition)
 - ii. Westbound Charles Town Road (AM/PM) LOS A/LOS A (Free Flow Condition)
 - Northbound Approach from US 340/Norborne Glebe (AM/PM) LOS D / LOS E (Stop-Controlled)
 - iv. Southbound Approach from Hillside Drive (AM/PM) LOS B/LOS C (Stop Controlled)
 - 2. How will Kings Crossing impact that intersection?

V.

- a. Based upon the Traffic Study completed by AMT Dated June 1, 2022 for the Kings
 Crossing Residential Development the 2025 Full Build and Full Build With Improvements
 LOS for the subject intersection by approach is as follows (Page 52 Table 4 2021
 Existing Conditions Analysis):
 - i. 2025 Full-Build (Kings Crossing) w/ no improvements:
 - Eastbound Charles Town Road (AM/PM) LOS A/LOS A (Free Flow Condition)

From:

Clohan, Kenneth L James Newman

To: Cc:

Kevin A McDonald, Greg Avers, Donald R Meadows, Perry J Keller

Subject:

Re: Charles Town -Traffic Impact Inquiry

Date: Attachments: Friday, May 5, 2023 3:00:34 PM 2023-04-14 Plans Revised.pdf

James.

Thank you for the information.

Based on the projected trip generation for a development of this size, combined with the projected operation of the currently programmed roundabout, we do not see a need for a TIS for this development.

The City requirement for a TIS seems to be the same as the Division of Highways. If the City requires the developer to complete the TIS, we can review it, but we just ask that the developer contact us to approve the scope before moving forward.

Regarding plan review, it is generally helpful to be able to review the plans at all stages since the need for a TIS or roadway improvements should be able to be determined with the sketch plan. If the developer finds that road improvements will be too costly, they may decide to change the size of the development before spending money on detailed plans.

Ken Clohan

On Mon, May 1, 2023 at 11:23 AM James Newman < JNewman@charlestownwv.us > wrote:

Good morning,

Thank you Ken. I see that on page 9 the Level of Service at Hillside/Charles Town Rd is 'E' during PM Peak Hours. Is there a general LOS that is experienced during non-peak times at that intersection? I ask because our Oridnance requires a Traffic Impact Study "When the proposed new approach is to an intersection already operating at level of service (LOS) "D" or worse", but that langue is vague and doesn't specify if that only applies to peak hours tor to how the intersection operates on average.

For the review process: we require that applicants obtain a WVDoH permit and provide that information on their plans prior to us approving those plans. When would WVDoH like to have plans? Just as we get the sketch plan (which is subject to change), or at preliminary or final plan stages when more details are provided?

I've attached a copy of the sketch plan that we have for Hillside.

reference for all traffic analyses.

- i. The Hillside Development Proposed 127 Townhouse units per the Sketch Plan Provided. Per the ITE 10th Edition Trip Gen Manual Land Use Code 220 each Townhouse unit will develop the following trips per period specified:
- AM Peak 0.56 Trips/Dwelling Unit, PM Peak 0.67 Trips/Dwelling Unit,
 Daily Trips 7.32 Trips/Dwelling Unit
- ii. These numbers multiplied by the 127 Townhouse Units would equate to the following number of trips:
 - a. AM Peak 72 AM Peak Hour Trips
 - b. PM Peak 86 PM Peak Hour Trips
 - c. Weekday 930 Total Daily Trips
- a. Based on the additional trips those numbers could be modeled into an additional traffic study to derive the impact to the intersection of Hillside Drive and Charles Town Road. Based upon the existing and proposed Hillside Development Roadway Network it could be assumed that all trips will enter the intersection at the Southbound Hillside Drive Approach to Charles Town Road and "split" based upon assumed origin-destination data and Trip Distribution variables,

Please let me know if you have any further questions or need anything else. I derived as much as I could but the key goes back to my comments regarding Kings Crossing and ensuring they implement the Roundabout ASAP in their development program. With the Roundabout in place at Hillside Drive and Charles Town Road the traffic impacts are mitigated and LOS improved. Without the roundabout one can assume that the failing LOS would only exacerbated and made worse by the additional trips associated with the Hillside Development.

Thanks,

Mark R Phillips, P.E. (VA,WV)

Kimley-Horn | 11400 Commerce Park Dr, Reston, VA 20191

Direct: 703-870-3631 | Mobile: 540-454-6294

Connect with us: Twitter | LinkedIn | Facebook | Instagram | Kimley-Horn.com

Celebrating 15 years as one of FORTUNE's 100 Best Companies to Work For

From: James Newman < JNewman@charlestownwv.us>

Sent: Tuesday, May 9, 2023 2:17 PM

To: Phillips, Mark < Mark. Phillips@kimley-horn.com>

Subject: Traffic Study

Hi Mark,

Our Planning Commission will be delving into the Hillside Development (see attached) on May 22nd. They'd like to know, based on the TIA for Kings Crossing (see attached), answers to the following:

1. What is the current level of service for the intersection of Hillside Drive/Charles Town Road?

From: Phillips, Mark
To: James Newman

Subject: RE: Charles Town -Traffic Impact Inquiry
Date: Wednesday, May 17, 2023 3:12:40 PM

Yes for the northbound approach. So we could try to put them on the line to do one for that. But it may be a tough sell since their contribution to that movement may not be much.

-Mark

Mark R Phillips, P.E. (VA,WW)

Kimley-Horn | 11400 Commerce Park Dr, Reston, VA 20191

Direct: 703-870-3631 | Mobile: 540-454-6294

Connect with us: Twitter | LinkedIn | Facebook | Instagram | Kimley-Horn.com

Celebrating 15 years as one of FORTUNE's 100 Best Companies to Work For

From: James Newman < JNewman@charlestownwv.us>

Sent: Wednesday, May 17, 2023 3:11 PM

To: Phillips, Mark < Mark. Phillips@kimley-horn.com > Subject: RE: Charles Town - Traffic Impact Inquiry

I apologize for any confusion I caused. I just want to know what the current level of service is at Hillside/Charles Town Road.

One of the requirements for requiring a traffic study is:

"When the proposed new approach is to an intersection already operating at level of service (LOS) "D" or worse."

I just want to know if the current Level of Service is at D or worse. I thought the text meant it is currently at E during peak evening hours.

From: Phillips, Mark < Mark Phillips@kimley-horn.com>

Sent: Wednesday, May 17, 2023 3:07 PM

To: James Newman < Newman@charlestownwv.us Subject: RE: Charles Town -Traffic Impact Inquiry

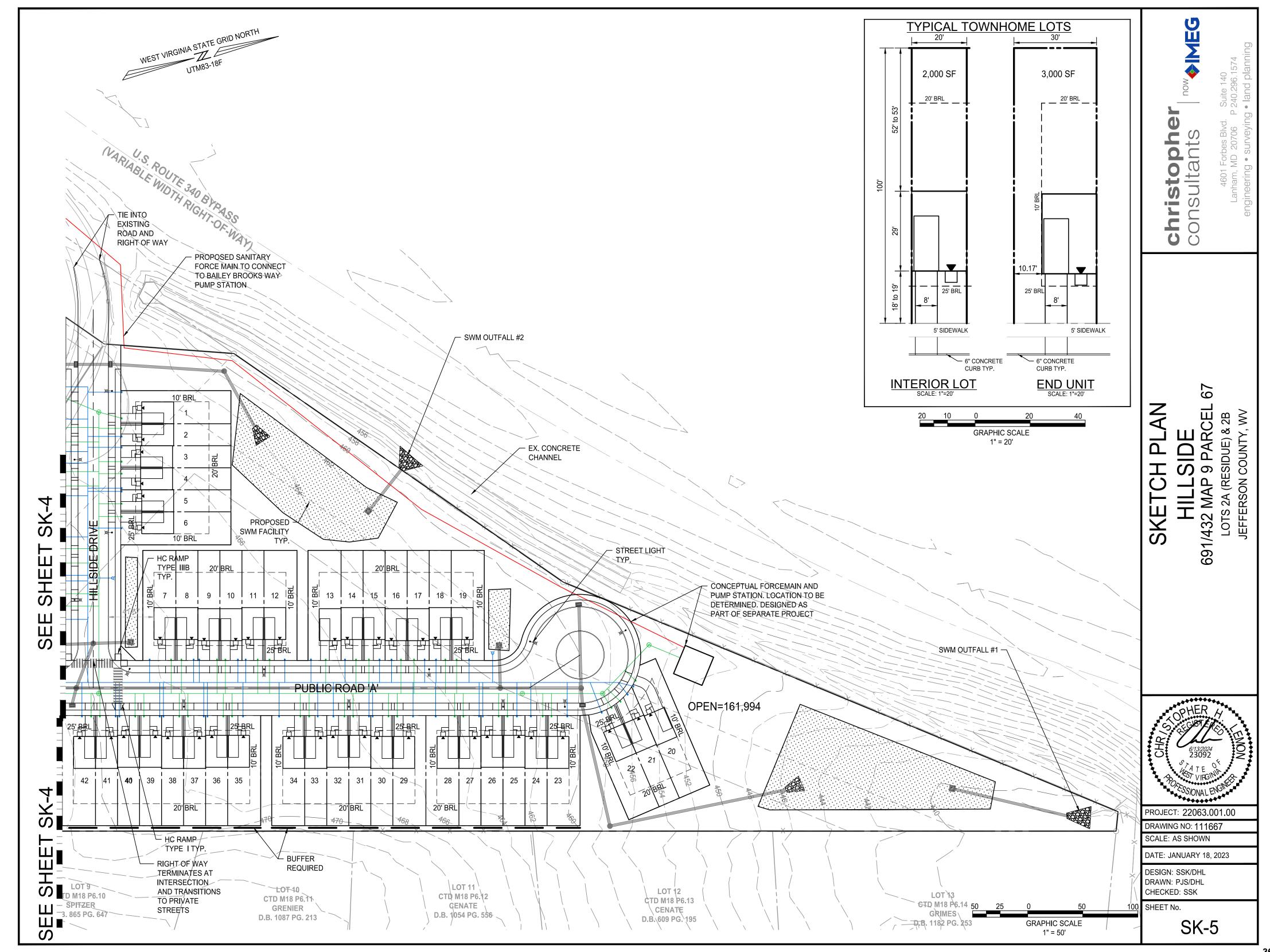
James that is the northbound approach. I though the specific ask was regarding the southbound approach? Regarding Hillside which is to the north.

Mark R Phillips, P.E. (VA,WV)

Kimley-Horn | 11400 Commerce Park Dr, Reston, VA 20191

Direct: 703-870-3631 | Mobile: 540-454-6294

Connect with us: Twitter | LinkedIn | Facebook | Instagram | Kimley-Horn.com





Planning Commission 101 East Washington Street Charles Town, WV 25414

Meeting: 07/24/23 Department: Planning Commission Category: Report Initiator:

SCHEDULED

AGENDA ITEM (ID #)

BR2023-03: Norborne Glebe Recreational Facilities - Bond Initiation

ATTACHMENTS:

- 1. Staff Report.pdf
- 2. Application.pdf
- 3. Bond Estimate.pdf
- 4. KH Review.pdf5. Preliminary Plans.pdf



Date: For the July 24, 2023 Planning Commission meeting

Applicant: Arcadia Land Inc.

Report by: James Newman, City Planner, Zoning/Subdivision Administrator. **Proposal:** A bond initiation in the amount of \$65,460.25.

Norborne Glebe Pool



The parcel with the pool location is outlined in cyan.

BACKGROUND

The applicant, Arcadia Land Inc., has submitted a bond initiation request for the construction of a pool, recreational amenities, and a parking lot. The applicant is requesting a bond initiation in the amount of \$65,460.25. This amount will cover land disturbance requirements (such as silt fencing).

Upon review of the request the City Engineer, Kimley-Horn, has determined that the bond initiation amount is a reasonable request, and consistent with the scope of work and approved project documents.

Performance bonds shall be required for public and other physical Improvements to be constructed under an approved Final Subdivision/Land Development Application. Such Improvements shall include, without limitation, Road, curb, gutter, sidewalk, trails, storm Drainage, traffic signalization and control, water and sanitary sewer infrastructure, and any other site-related Improvements required by the City of Charles Town for vehicular and pedestrian ingress and egress, for public access roadways, for Structures necessary to insure stability of critical slopes, for necessary utilities, and for Stormwater Management Facilities.

BOND COMMITTEE

The Bond Committee was unable to convene to review the request.

RECOMMENDATION

The City Engineer has reviewed the bond reduction request and recommend the bond initiation request be **approved**.

Bond Request No.

Norborne Glebe - Pool Land Disturbance Bond



BOND REQUEST AND REDUCTION

To assist the Subdivision Administrator in the review of a Bond Request Application, the Applicant must utilize this form to supply the City with the information prescribed under Article 1335 and Section 1332 of the Subdivision and Land Development Ordinance. The submission of this form, along with the prescribed information and required fees, shall serve as the Applicant's Bond Request Application as required by Ordinance Article 1335.

1. DATE	May 31	, 20_23
2. APPLICATION TYPE	⊠ Bond Initiation	☐ Bond Reduction
	☐ Bond Reallocation	☐ Bond Release**
3. PROJECT NAME	Norborne Glebe	Subdivision - Pool
Address	N/A	
4. APPLICANT'S NAME	. Arcadia Land, Inc	. Attn: Gary Endler
Address	108 N. George Stree	t - 2nd Floor Charles Town, WV 25414
Telephone Number	703-771-8000	Fax Number ()
Email Address	gendler@arcadiad	companies.com
5. PROPERTY OWNER'	_{S NAME} Arcadia Lan	d, Inc, Attn: Gary Endler
Address	108 N George Street	t - 2nd Floor Charles Town, WV 25414
Telephone Number	703-771-8000	Fax Number ()
Email Address	gendler@arcadiad	companies.com
*Applicants include: Prop	perty owner(s), Engineer(s),	Surveyor(s), or Consultant(s)
**Requires a Public Hea	ring and landscaping surety	for one year after release
PAGE 1 OF 5		CITY OF CHARLES TOWN Road

February 2018

Bond Re	quest No.	
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10. BOND RELEASE ATTACHMENTS.

The following shall be included with this request:

- A. To the extent not previously submitted pursuant to bond reduction request, copies of inspection and test reports if work was inspected and tested by a third-party inspector.
- B. Certification that all bonded Improvements, other than Improvements accepted by West Virginia Department of Highways (WVDOH), have been completed in accordance with the approved plans, profiles, and specifications and the requirements of any applicable manual. For Improvements to be accepted for maintenance by WVDOH, such Certification shall state that the Improvements have been installed and inspected in accordance with WVDOH's requirements.
- C. A copy of the City-approved As-Built Drawings as required for facilities within public rights-of-way or Easements submitted pursuant to Section 1332.10 of this Ordinance.

Date of As-Builts	Prepared By
-------------------	-------------

- D. A letter from a Professional Engineer or Professional Land Surveyor certifying that property corners and Monuments have been set as required under this Ordinance.
- E. Documentation of acceptance by WVDOH for public roadways and rights-of-way, or a maintenance and indemnification agreement and bond approved by the Planning Commission for public roadways that have been completed in accordance with WVDOH standards but which, due to factors other than their quality of construction, are not eligible for acceptance by WVDOH.
- F. For private roadways, a letter of acceptance by the entity responsible for maintenance and a Latent Defects Indemnification Agreement and Bond in accordance with this Section.
- G. Private Roadway Maintenance Bonds. Before a Performance Agreement and surety for private roadway construction shall be released, a Latent Defects Indemnification Agreement and Bond shall be provided by the applicant/Developer and approved by the Planning Commission. The guarantee provided by such Agreement and Bond must be for a period of two (2) years following the date of performance bond release, and must be in an amount equal to no less than 5% of the original performance bond estimate in accordance with Section 1335.07 (F) of the Subdivision Ordinance.
- H. Landscaping Surety. Surety is required to ensure the landscaping shown on the Major S/LD plans is maintained for one (1) year. The one (1) year shall start from the date at which the surety for the site has been released, with the exception of this landscaping surety. The landscaping surety amount shall not be less than \$5,000.00 or 10% of the total landscaping cost for the project, which every is greater.

Bond Red	quest No
AF	PPLICANT CERTIFICATION
an	ertify that, to the best of my knowledge, the submitted information and statements are true d correct. I also certify that I have received and read Article 1335 of the S/LD Ordinance. Interest Applicant Date 5/3/2033
Sig	gnature of Property Owner (If different than Applicant)
:	Date
	ease submit an original completed Application, 1 digital copy and 1 paper copy of the As-Built ans (if applicable) to the following:
City 101	bdivision Administrator y of Charles Town 1 E. Washington Street arles Town, WV 25414
Ple	ase also send a copy of the completed Application as well as the As-Builts to the following:
Attı 705	tch/Chester Engineers n: Elizabeth Adamowicz 5 Quince Orchard Road, Suite 310 ithersburg, MD 20878

FOR C	CITY USE ONLY
Application Number:	Date Application Received:
Fee: \$	Check No
Receipt No	
Site Inspection Date:	Inspector:
Subdivision Administrator Approval:	Date:
Engineer Approval:	Date:
Planning Commission Approval:	Date:
City Council Approval:	Date:
Comments:	

M

CITY OF CHARLES TOWN

LAND DISTURBANCE BOND UNIT COST LIST AND BOND REDUCTION FORM

This form shall be used to calculate the amount of the bond required to guarantee public improvements to be constructed under the approved Final S/LD Application. This form shall also be used in calculating the amount of bond reductions to be approved by the Planning Commission. Note: No bond shall be reduced until completion of at least thirty (30) percent of the physical improvements secured by the bond.

PROJECT NAME:	Norborne Glebe - Pool	be - Pool						
PREPARED BY:	Greenway Engineering	gineering						
DATE OF SUBMISSION	26-May-23	9						
	BOND ESTIMA	STIMATE				BOND REDUCTION	NO	City Use Only
ITEM	TINO	UNIT COST	QUANTITY	EXTENSION	QUANTITY	EXTENSION	"COMPLETE	San Maria
			MOBILIZA	MOBILIZATION GENERAL				The state of the s
Mobilization	ST	\$6,250.00	1	\$6,250.00	0.0	\$0.00		
Field Office	EA	\$3,000.00		\$0.00	0.0	\$0.00		
Job Sign	EA	\$1,150.00		\$0.00	0.0	\$0.00		
			EROSION & SI	EROSION & SEDIMENT CONTROL	L		TOUT THE	
Curb Inlet Protection	EA	\$176.80	7	\$1,237.60	0.0	00 08		
Grate Inlet Protection	EA	\$200.00	0	\$0.00	0.0	\$0.00		
Rock Check Dam	SY	\$47.87	0	\$0.00	0.0	\$0.00		
Outlet Protection	SY	\$78.00	0	\$0.00	0.0	\$0.00		
Temporary Seeding	SY	\$0.77	0	\$0.00	0.0	\$0.00		
Permanent Seeding	SY	\$3.64	4,750	\$17,290.00	0.0	\$0.00		
Clearing and Grubbing	Acre	\$6675.00	က	\$16,687.50	0.0	\$0.00		
Silt Fence	F	\$3.25	2,399	\$7,796.75	0.0	\$0.00		
Super Silt Fence	H.	\$5.40	0	\$0.00	0.0	\$0.00		
Level Spreader	SY	\$0.00	0	\$0.00	0.0	\$0.00		
Stabilized Construction Entrance	EA	\$2990.00	1	\$2,990.00	0.0	\$0.00		
A S THE THE WAY			TOPSOIL	TOPSOIL REPLACEMENT	1 1 1 1 1 1		A new Heat	THE RESERVED TO SERVED THE SERVED TO SERVED THE SERVED
Fine Grading	SY	\$1.09	1,759	\$1,919.07	0.0	\$0.00		
Respread Topsoil	SY	\$0.92	4,750	\$4,370.00	0.0	\$0.00		
			SPEC	SPECIAL ITEMS				
Sediment Trap	rs			\$0.00	0.0	\$0.00		
Sediment Basin	S7			\$0.00	0.0	\$0.00		
Subtotal				\$56.621.85				

TOTAL ESTIMATE OF REDUCTION:					Г
AL ESTIMATE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	SubTOTAL:	CONTINGENCIES	TOTAL	INFLATION	Grand Total:
TOTAL ESTIMATE OF COMPLETED WORK:	\$56,621.85	\$5,662.19	\$62,284.04	Years	\$3,176.49
TOTAL ESTI		10.0%		5	1.02%
	SubTOTAL	CONTINGENCIES:	TOTAL W/ CONTINGENCY:	BOND PERIOD:	ANNUAL INFLATION FACTOR:

Grand Total:

ARCADIA DEVELOPMENT CO.

ADC EAST MANUAL

108 N GEORGE ST FL 2
CHARLES TOWN, WV 25414

Pay to the order of City of Charles

CHASE O

JPMorgan Chase Bank, N.A.

www.Chase.com

BBB 9 10 3 5 0 H 100B

CITY OF CHARLES TOWN

LAND DISTURBANCE BOND UNIT COST LIST AND BOND REDUCTION FORM

This form shall be used to calculate the amount of the bond required to guarantee public improvements to be constructed under the approved Final S/LD Application. This form shall also be used in calculating the amount of bond reductions to be approved by the Planning Commission. **Note**: No bond shall be reduced until completion of at least thirty (30) percent of the physical Improvements secured by the bond.

PROJECT NAME:	Norborne Gle	Norborne Glebe - Pool						
PREPARED BY:	Greenway En	gineering						
DATE OF SUBMISSION	26-May-23							
BOND ESTIMATE						BOND REDUC	ΓΙΟΝ	City Use Only
ITEM	UNIT	UNIT COST	QUANTITY	EXTENSION	QUANTITY	EXTENSION	%COMPLETE	% Approved
			MOBILIZA	ATION GENERAL				
Mobilization	LS	\$6,250.00	1	\$6,250.00	0.0	\$0.00		
Field Office	EA	\$3,000.00		\$0.00	0.0	\$0.00		
Job Sign	EA	\$1,150.00		\$0.00	0.0	\$0.00		
			EROSION & S	EDIMENT CONTROL				
Curb Inlet Protection	EA	\$176.80	7	\$1,237.60	0.0	\$0.00		
Grate Inlet Protection	EA	\$200.00	0	\$0.00	0.0	\$0.00		
Rock Check Dam	SY	\$47.87	0	\$0.00	0.0	\$0.00		
Outlet Protection	SY	\$78.00	0	\$0.00	0.0	\$0.00		
Temporary Seeding	SY	\$0.77	0	\$0.00	0.0	\$0.00		
Permanent Seeding	SY	\$3.64	4,750	\$17,290.00	0.0	\$0.00		
Clearing and Grubbing	Acre	\$6675.00	3	\$16,687.50	0.0	\$0.00		
Silt Fence	LF	\$3.25	2,399	\$7,796.75	0.0	\$0.00		
Super Silt Fence	LF	\$5.40	0	\$0.00	0.0	\$0.00		
Level Spreader	SY	\$0.00	0	\$0.00	0.0	\$0.00		
Stabilized Construction Entrance	EA	\$2990.00	1	\$2,990.00	0.0	\$0.00		
			TOPSOIL	REPLACEMENT				
Fine Grading	SY	\$1.09	1,759	\$1,919.07	0.0	\$0.00		
Respread Topsoil	SY	\$0.92	4,750	\$4,370.00	0.0	\$0.00		
			SPE	CIAL ITEMS				
Sediment Trap	LS			\$0.00	0.0	\$0.00		
Sediment Basin	LS			\$0.00	0.0	\$0.00		
Subtotal				\$56,621.85				

TOTAL ESTIMATE OF COMPLETED WORK:

TOTAL ESTIMATE OF REDUCTION:

SubTOTAL: CONTINGENCIES:	10.0%	\$56,621.85 \$5,662.19	SubTOTAL: CONTINGENCIES:	\$0.00 \$0.00
TOTAL W/ CONTINGENCY:		\$62,284.04	TOTAL:	\$0.00
BOND PERIOD:	5	Years	INFLATION :	\$0.00
ANNUAL INFLATION FACTOR:	1.02%	\$3,176.49	Grand Total:	\$0.00

Grand Total:	\$65,460.52	Bond Remaining:	\$65,460.52
--------------	-------------	-----------------	-------------

Kimley»Horn

Memorandum

To: Daniel Murphy

Project Manager Greenway Engineering 151 Windy Hill Lane Winchester, VA 22602

From: Mark Phillips, P.E.

Alex Bachy

Through: James Newman

City of Charles Town 101 E Washington Street Charles Town, WV 25414

Date: June 1, 2023

Subject: Norborne Glebe Subdivision - Pool Bond Initiation Review

This memorandum summarizes our review of the Bond Initiation request for the Norborne Glebe Subdivision Pool (dated May 31, 2023, prepared by Greenway Engineering) for a proposed pool within the existing residential community. The site is currently zoned Neighborhood Residential. The Bond is for \$65,460.52 using the Final Subdivision/Land Development Plat for the Norborne Glebe Subdivision Pool. Kimley-Horn's review of this application is limited to the Bond Initiation Application provided by the Applicant. Based upon our review we have no comments and believe the bond initiation request is consistent with the scope of work for the project and approved project documents.

Thank you for the opportunity to review this Bond Initiation request. In the meantime, please feel free to contact us at 703-870-3631 should you have any questions.

KIMLEY-HORN & ASSOCIATES, INC.

Mark Phillips, P.E. Project Manager

Associate

	Pla	an Revisions
Revision	Date	Comment
1	05/26/2023	PER CITY, CTUB, & CLIENT COMMENTS**
2	06/01/2023	PER NPDES PERMIT
3	06/14/2023	PER CTUB COMMENTS
4	06/15/2023	PER CITY COMMENTS

STAT	E & LOCAL PERMITS
AGENCY	PERMIT #/APPROVAL DATE
WVDEP	WVR1101047 / 03/28/2022
WVDOH	05-02-0050 /01-23-2021

CALL "MISS UTILITY"

MISS UTILITY OF WEST VIRGINIA (MUWV) AT 811 OR 1-800-245-4848, 48 HOURS PRIOR TO THE START OF WORK. EXCAVATORS MUST NOTIFY ALL PUBLIC UTILITY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATING OR BLASTING AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL COUNTY REQUIREMENTS, WEST VIRGINIA CODE AND REGULATIONS.

UTILITY NOTICE (AS NEEDED)

Contractors shall notify all public utility operators who maintain underground utility lines in the area of proposed excavating or blasting at least two (2) working days, but not more than ten (10) working days, prior to commencement of excavation or demolition. Names and telephone numbers of the operators of underground utility lines appear below. These numbers shall also be used to serve in an emergency condition.

inergency conditio	11.
Water:	Charles Town Utility Board 832 S. George Street Charles Town, WV 25414 (304) 725-2316
Sewer:	Charles Town Utility Board 832 S. George Street Charles Town, WV 25414 (304) 725-2316
Power:	Potomac Edison P.O.Box 3615 Akron, OH 44309 (800) 686-0011
Phone:	Frontier Communications 1108 N. Mildred Street

Charles Town - Complete List of Waivers/Variances

Description of Waiver or Variance

Date Granted

Section of

Ordinance

Effective date 12/18/2009."

"This property is in an area designated as a special flood

area, as shown on Community Map/panel Number 54037C0138E,

Eastern Panhandle Conservation District Martinsburg, WV 25404

(304) 728-8500

NORBORNE GLEBE

POOL PRELIMINARY SUBDIVISION/LAND DEVELOPMENT PLAT

MAJOR SLD 2022-06-SP

CHARLES TOWN CORP. DISTRICT (3) - MAP 12 - PARCEL 215 DEED BOOK 1173 - PAGE 85

> CITY OF CHARLES TOWN JEFFERSON COUNTY, WEST VIRGINIA



Sheet List Table

	Sheet Number	Sheet Title		
	1	COVER SHEET		
	2	GENERAL NOTES		
	3	ADJOING OWNER INFORMATION & PHASING KEY		
	ЗА	EXISTING CONDITIONS		
	4	E&S PHASE I		
	5	TRAIL E&S PHASE I		
	6	E&S PHASE II		
	7	TRAIL E&S PHASE II		
8 E&S NARRATIVE		E&S NARRATIVE		
	9 E&S DETAILS			
10 LAYOUT & UTILITY PLAN		LAYOUT & UTILITY PLAN		
	11 GRADING PLAN			
	12 TRAIL LAYOUT PLAN			
	13	PRELIMINARY PLAN		
	14	UTILITY PROFILES		
	15 LANDSCAPE PLAN			
	16	CITY OF CHARLES TOWN AND CURB RAMP DETAILS		
	17	CTUB DETAILS		
	18 LIGHTING PLAN			
	19	SITE DETAILS		
	20	20 SWM PLAN		
	21	SWM DETAILS		
	22	SWM COMPS		

**REVISION NARRATIVE 05/26/2023

STATEMENT OF ACCURACY

"The Engineer and/or Surveyor, in signing this plat/plan, attests to

the best of his or her knowledge, is plan is complete and accurate.

STATEMENT OF ACCEPTANCE

complete all the improvements required by the Preliminary Plat and

"The developer, in signing this plat/plan, agrees to abide by all conditions, terms and specifications provided heron; and to

RANDY L. KEPLER, P.E.

Plan or site plan."

ARCADIA LAND, INC.

108 N. GEORGE STREET 2ND FLOOR CHARLES TOWN, WEST VIRGINIA 25414

- LATERAL CONNECTION INTO BUILDING. 5. UPDATED LIMITS OF DISTURBANCE AND E&S CONTROLS.

ENGINEER/SURVEYOR'S CERTIFICATION

"The plat represents a survey made by him/her; all Monuments and improvements indicated thereon actually exist, and that their location, size and material are correctly shown; he/she is familiar with all requirements of this Ordinance; and, to his/her best knowledge and belief, all requirements of this Ordinance have been fully complied therewith."

Date CHRIS BLAIR, PLS GREENWAY ENGINEERING, INC.

PRELIMINARY PLAN AND PLAT APPROVAL GREENWAY ENGINEERING INC.

Town, on the _____ , subject to any conditions specified hereon.

All expenses incurred with respect to improvements for all utility services, paving, grading, landscaping, curbs, gutters, sidewalks, road lighting, road signs, flood protection devices, drainage structures and all other improvements that may be required shall be the responsibility of the subdivider and not the City.

Date

"This Preliminary Plan was approved by the City of Charles

Secretary of the Planning Commision

APPROVALS

PRELIMINARY PLAT APPROVAL DATE PLANNING COMMISSION

HESE PLANS ARE IN CONFORMANCE WITH CITY OF CHARLES TOWN STANDARDS AND ORDINANCES. ANY DEVIATION OR CHANGE IN THESE PLANS SHALL BE APPROVED BY THE ZONING ADMINISTRATOR PRIOR TO CONSTRUCTION

SCALE: AS NOTED

DESIGNED BY: AM/CW FILE NO. 4542A

22-06-SP

LIST OF SERVICES: CIVIL ENGINEERING I GIS I LAND SURVEYING I ENVIRONMENTAL I ANALYTICAL LABORATORY I QUALITY CONTROL TESTING & INSPECTIONS

VICINITY MAP

SCALE: 1" = 400'

OWNER/DEVELOPER

ARCADIA LAND, INC

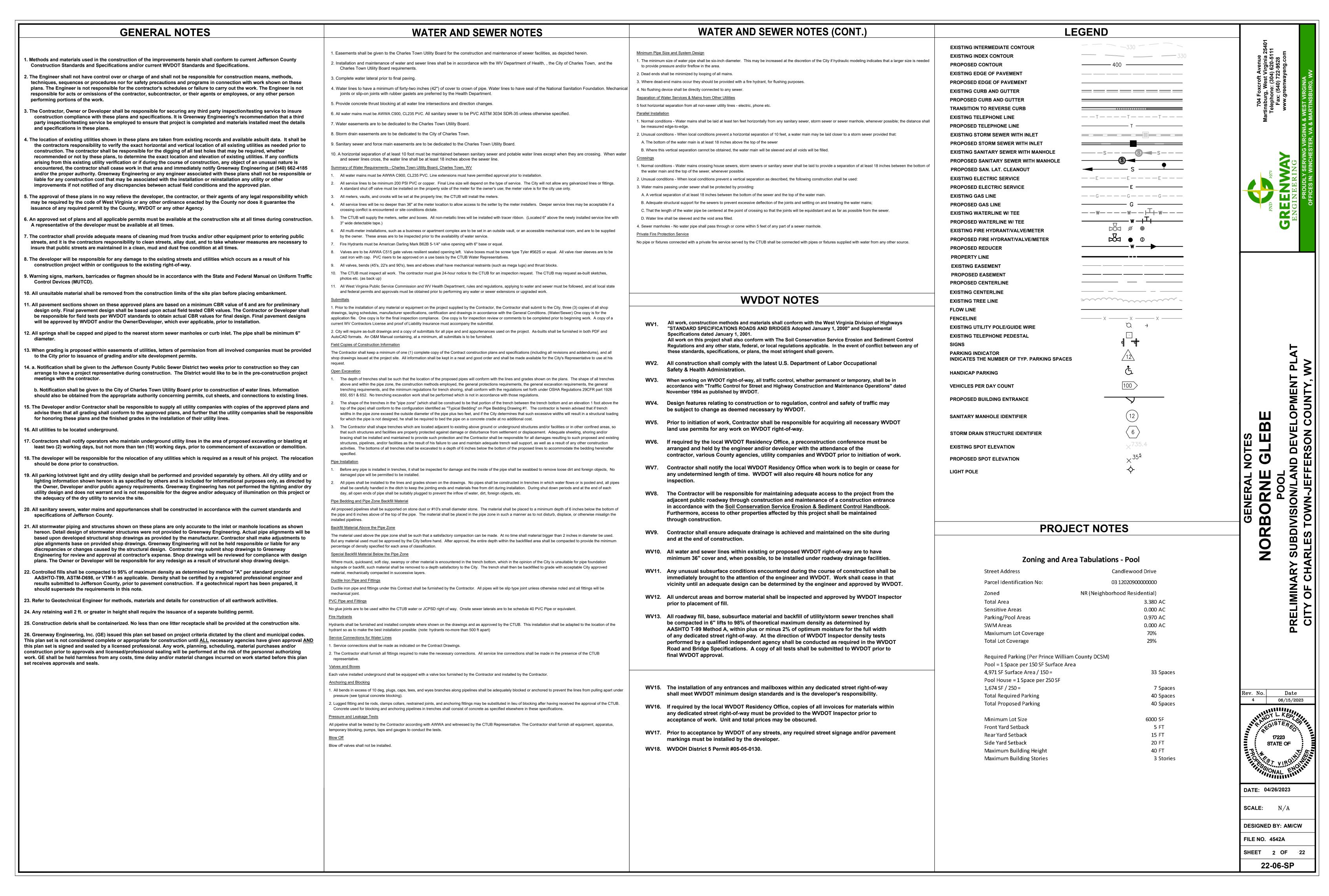
108 N. GEORGE STREET 2ND FLOOR

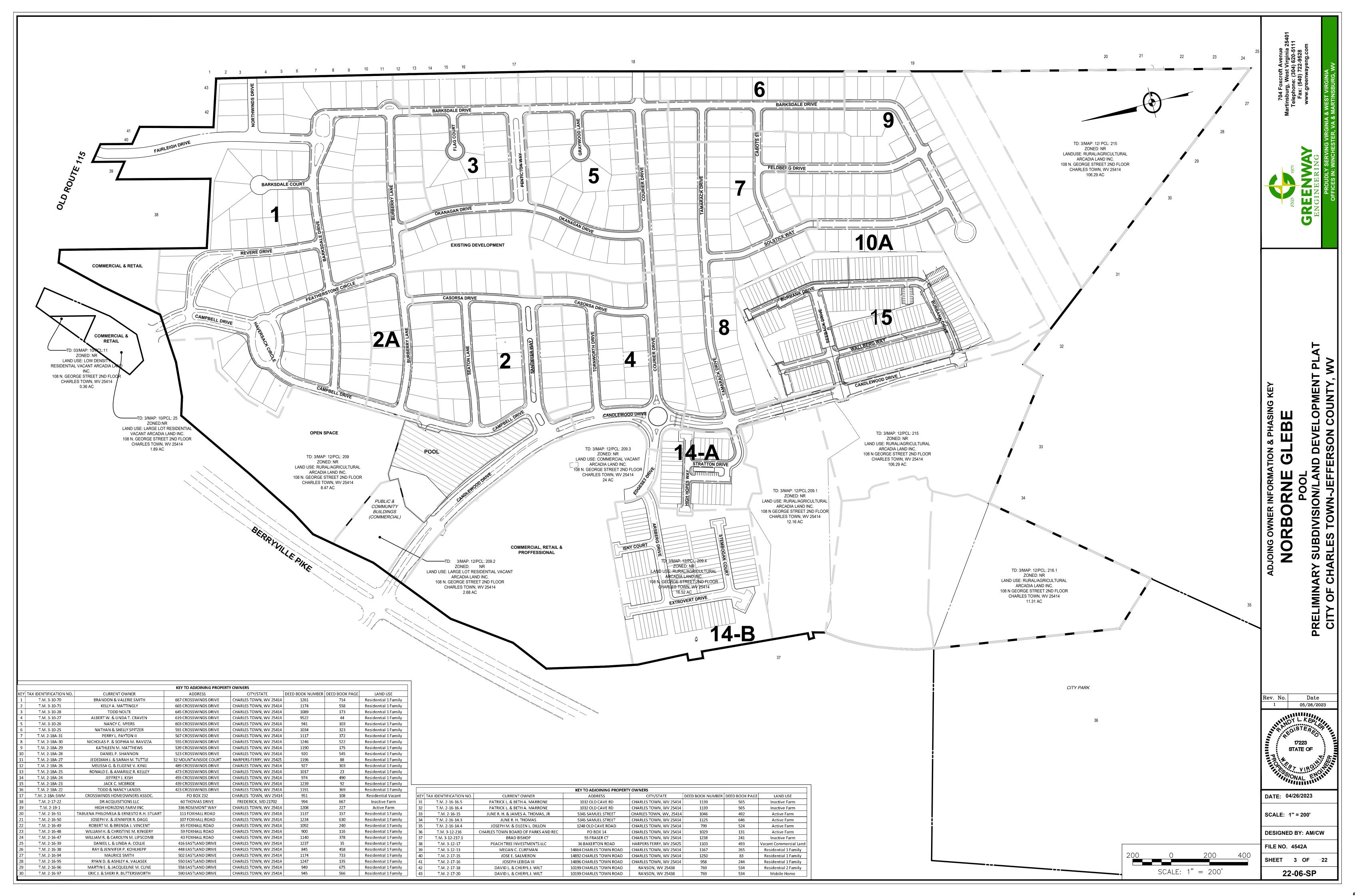
CHARLES TOWN, WEST VIRGINIA 25414

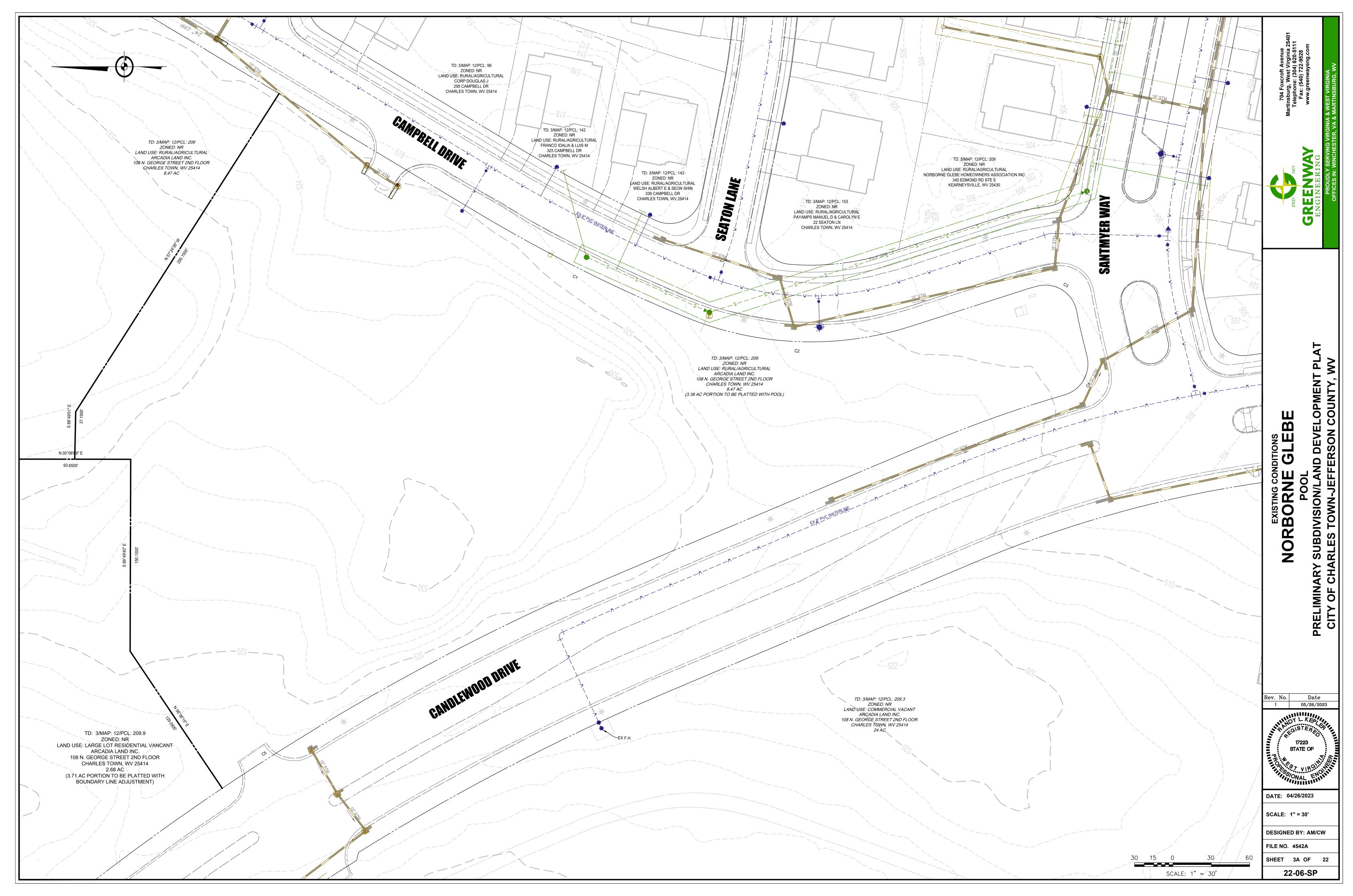
(443) 286-2786

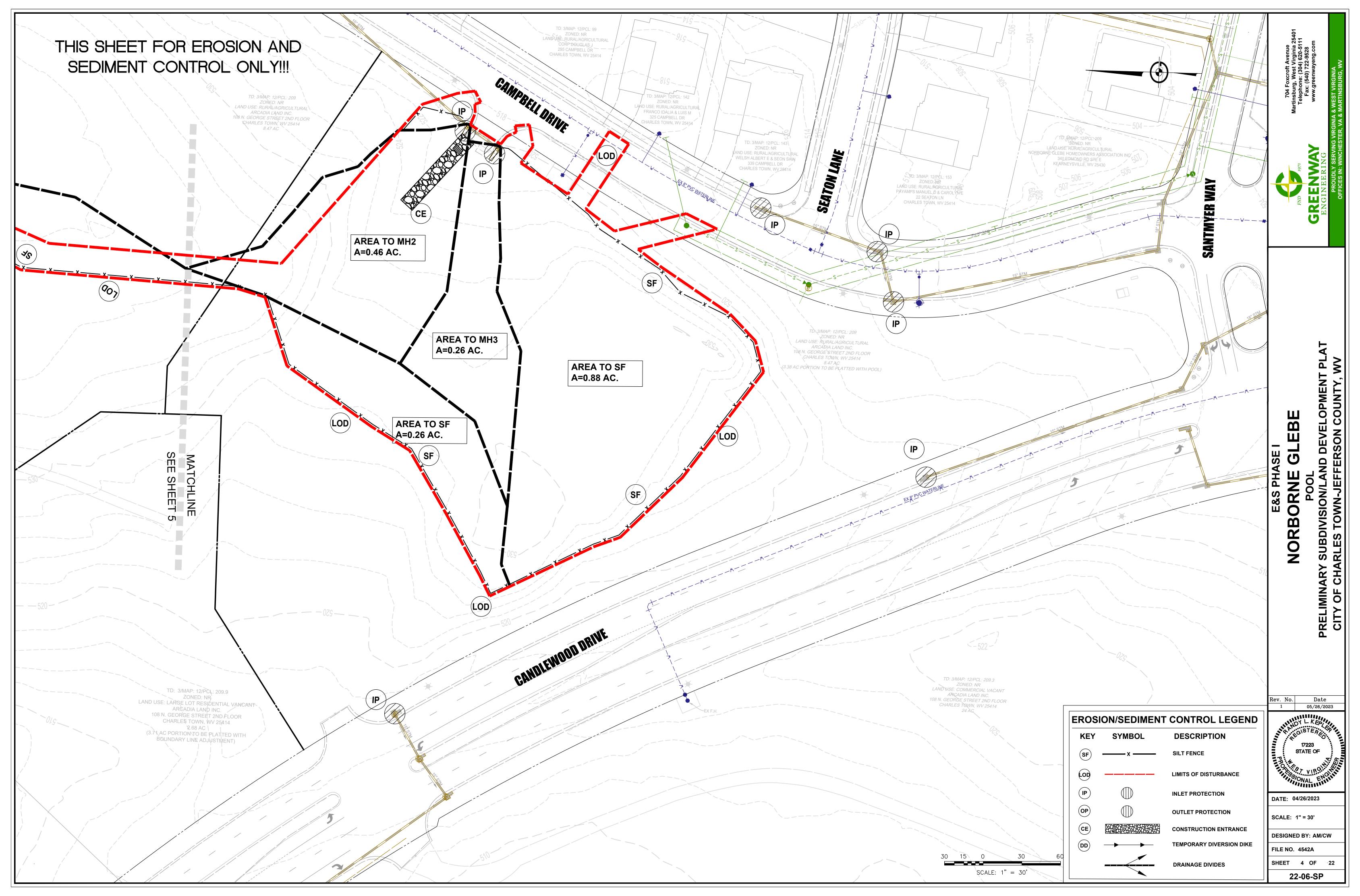
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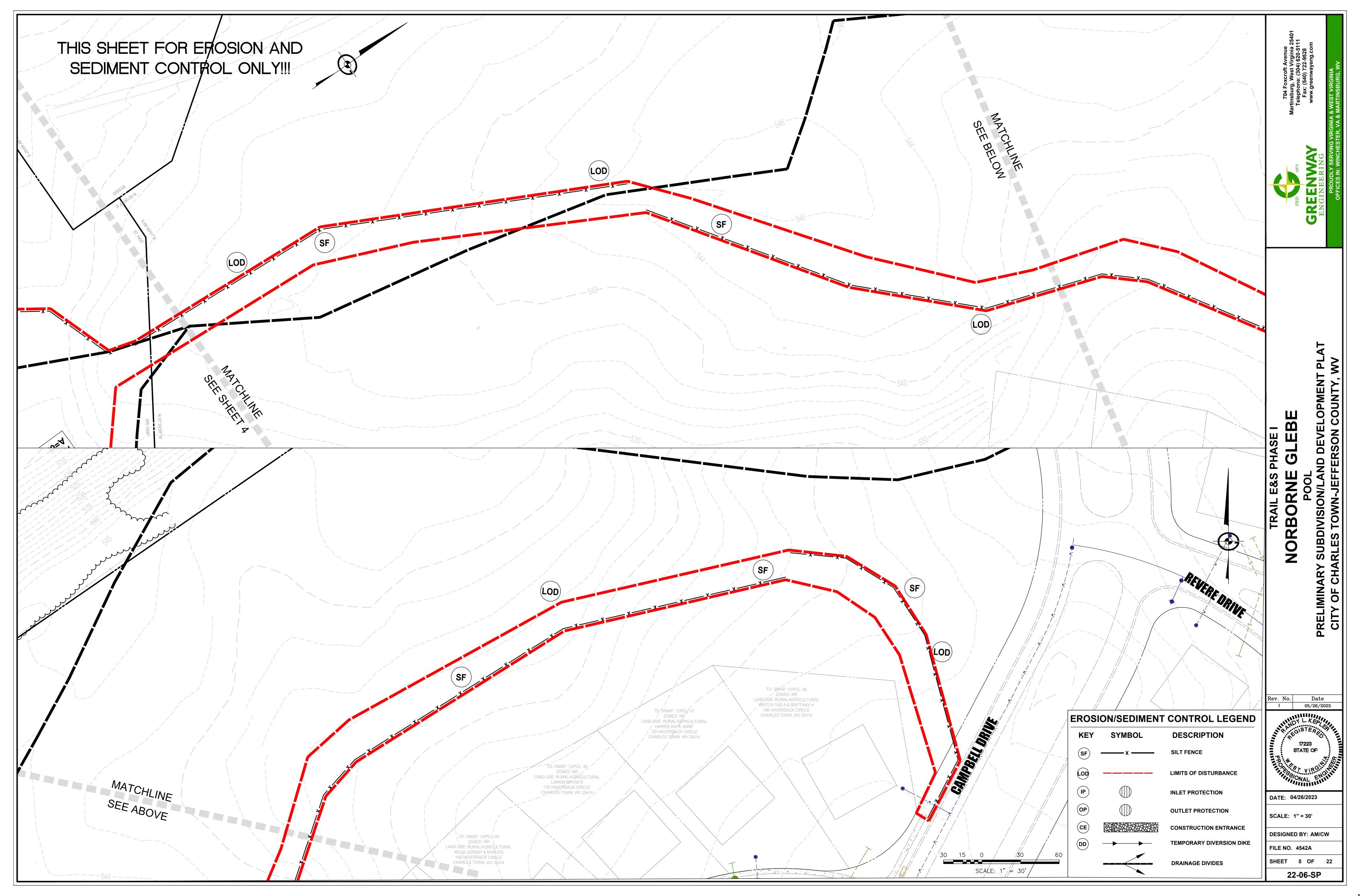
SHEET 1 OF 22

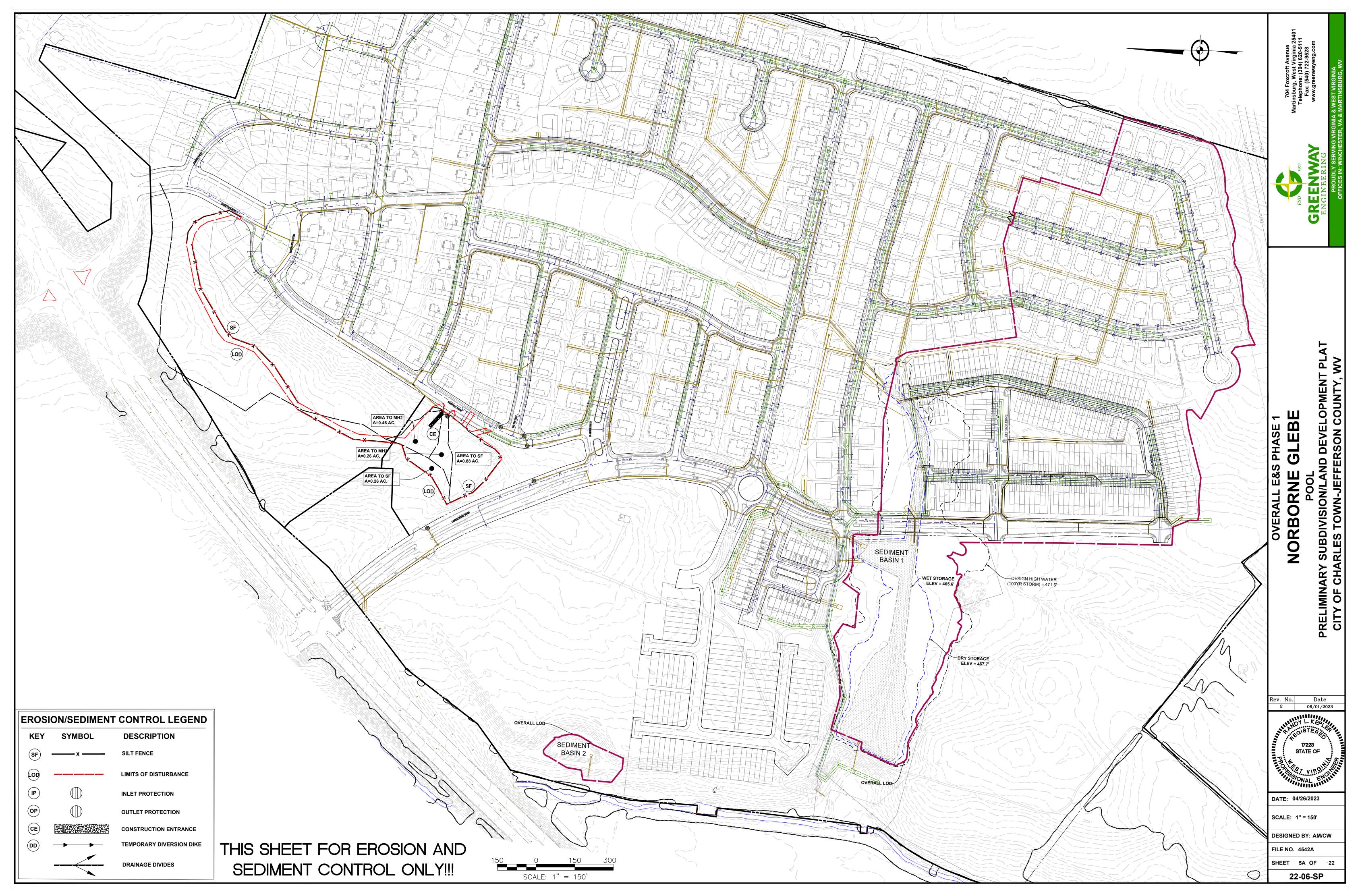


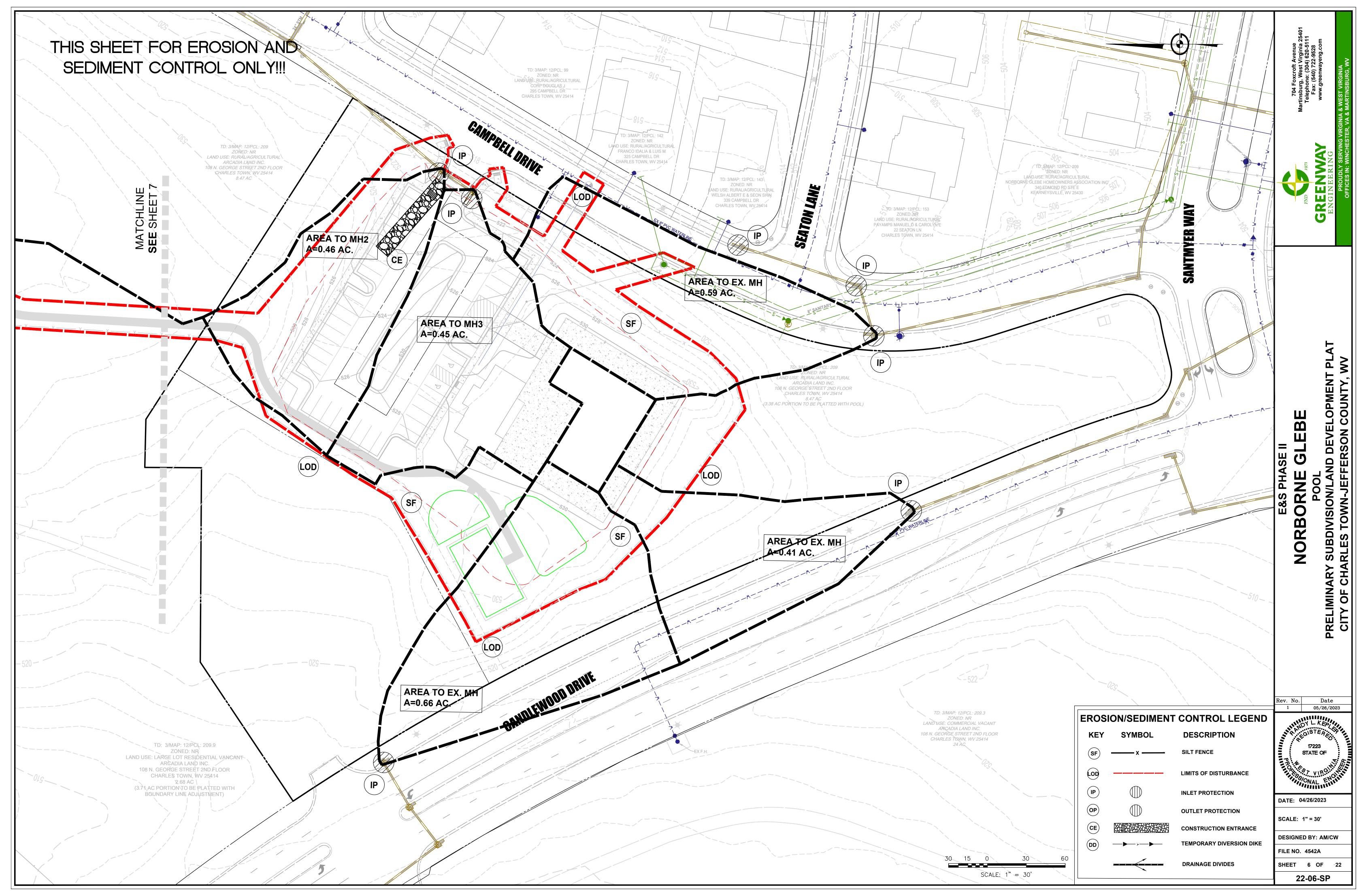


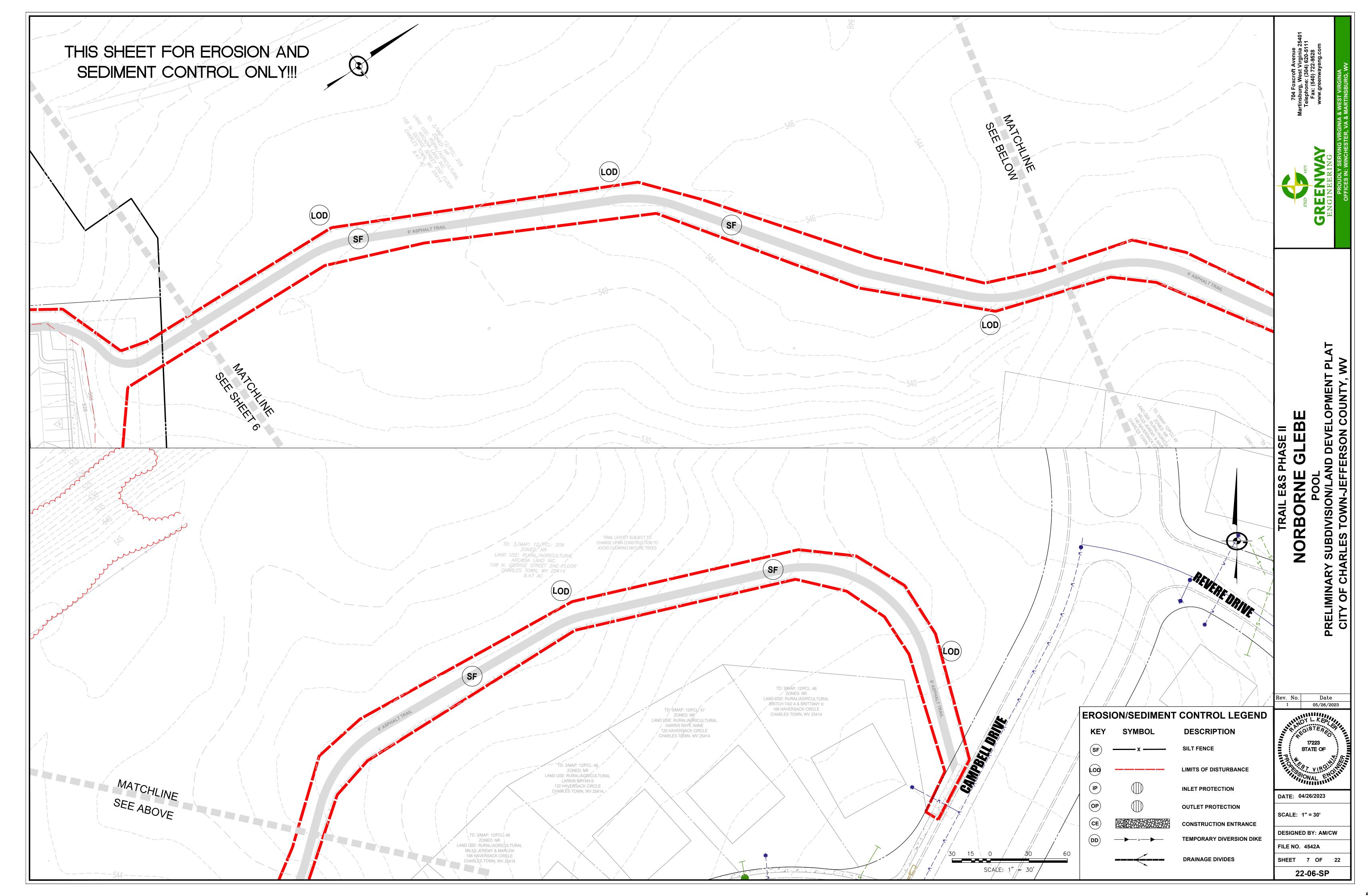












EROSION AND SEDIMENT CONTROL NARRATIVE

Description: The Project delineated hereon is located in the City of Charles Town, WV. This plan proposes construction of the Pool and associated roads and utilities. Approximately 2.75 acres will be disturbed for construction.

<u>Date of construction</u>: Construction will begin following plan approval and is estimated to take up to 2 years to complete the project.

Offsite areas: Top soil will be stripped from graded areas and stockpiled for use in final grading and permanent stabilization. Stockpiles will be kept on site and clear of all construction activities. The stockpiles will be be stabilized with temporary seeding and protected with silt fence.

Erosion And Sediment Control Measures: Unless otherwise indicated, all vegetative and structural erosion and sediment control measures shall be constructed and maintained according to the minimum standards and specifications of the West Virginia Erosion and Sediment Control Handbook.

Management Strategies:

Construction shall be sequenced such that grading operations will begin and end as quickly as possible.

The site superintendent shall be responsible for the installation and maintenance of all erosion and sediment control measures. Maintenance of these measures throughout the project is critical to the effectiveness of the program.

After areas above controls have been stabilized, the controls shall be cleaned up and removed.

Electric power, telephone, storm, sanitary, water & gas supply trenches (as applicable) are to be compacted, seeded and mulched within four (4) days after backfilling. No more than 500 feet are to be open at any one time.

All cut and fill slopes are to be seeded and mulched within four (4) days of completion of grading.

Drainage swales shall be stabilized with check dams until vegetation has been well established, at which time the temporary check dams shall be removed.

Devices listed above are considered minimum erosion and sediment controls. Additional control measures may be necessary due to contractor phasing or other unforeseen conditions. It is the contractor's responsibility to provide additional measures to those shown, as needed, in order to control erosion and contain sediment on site. All measures shall be installed according to the standards and specifications in the West Virginia erosion and sediment control handbook.

Maintenance Program:

All control measures shall be inspected daily by the site superintendent or his representative and within 24 hours after any storm event greater than 0.25 inches of rain per 24-hour period. Any damaged structural measures are to be repaired by the end of the day. Seeded areas shall be checked regularly to ensure that a good stand of grass is maintained. All areas shall be fertilized and reseeded as needed until grass is established.

Trapped sediment is to be removed as required to maintain 50% trap efficiency and disposed of by spreading on site.

Inlet protection shall be checked regularly for sediment build-up. If the gravel outlet is clogged by sediment, it shall be removed and cleaned or replaced immediately.

The contractor is responsible for keeping existing public roads in a clean, dust and mud free, condition at all times.

Erosion and sediment control program:

- 1. Hold pre-construction meeting on site with inspector.
- 2. Install construction entrance.
- 3. Clearing and grubbing for sediment control devices only. 4. Placement of sediment control devices.
- 5. Obtain inspector's approval prior to beginning grading operations.
- 6. Clear and grub remainder of site.
- 7. Rough grade site. 8. Install drainage devices with sediment control.
- Final grading.
- 10. Restoration and stabilization of disturbed areas.
- 11. Remove erosion and sediment control measures with the approval of the inspector.

Note: City of Charles Town Public Officials retain the right to add and/or modify these erosion and sediment control measures during the construction process, within reason, to ensure adequate protection to the public and the environment.

Seeding schedule (soil stabilization):

- 1. All permanent seeding shall be in accordance with the West Virginia Erosion & Sediment Control Manual.
- 2. Spread topsoil at a minimum depth of four (4) inches. 3. Incorporate pulverized agricultural limestone into the topsoil at a rate of 92 lbs. per 1,000 square feet (2 tons per acre).
- 4. Fertilize with 10-10-10 fertilizer at a rate of 23 lbs per 1,000 square feet (1,000 lbs per acre). 5. Seed all areas with a seed mix consisting of 67% Kentucky 31 Tall Fescue and 33% Red Top Clover.
- 6. Mulch all seeded areas with straw mulch applied at a rate of 3,500 lbs per acre anchored with cutback or emulsified asphalt applied at a rate of 200 gallons

Dust control

- 1. Temporary seeding shall be applied to all disturbed areas subject to little or no construction traffic
- 2. All haul roads and other heavy traffic routes shall be sprinkled with water until the surface is wet and repeated as needed to control dust.

SEEDING

TABLE 3.31-B ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS

50/50 Mix of

Annual Ryegrass

(Secal cereale)

Anual Ryegrass

German Millet

(Setaria italica)

(Lolium multi-florum) 8

Cereal (Winter) Rve

(Loliium multi-florum)

TABLE 3.32-C SITE SPECIFIC PERMANENT SEEDING MIXTURES FOR APPALACHIAN/MOUNTAIN AREA

* Perennial Ryegrass will germinate faster and at lower soil temperatures than fescue, thereby providing

*** If Flatpea is used, increase to 30 lbs./acre. All legume seed must be properly inoculated. Weeping

Lovegrass may also be included in any slope or low-maintance mixtures during warmer seeding periods

Seed shall be evenly applied with a broadcast seeder, drill, cultipacker seeder or hydroseeder. Small grains shall be planted no more than one inch deep. Grasses and legumes shall be planted with no less than 1/4" soil cover.

"QUICK REFERENCE FOR ALL REGIONS"

Stormwater Management Narrative:

Planting Dates

Sept. 1 - Feb. 15

Feb. 16 - Apr. 30

May 1 - Aug. 31

Minimum Care Lawn

General Slope (3:1 or less) - Kentucky 31 Fescue

> - Red Top Grass - Seasonal Nurse Crop*

- Kentucky 31 Fescue

- Red Top Grass Seasonal Nurse Crop* - Crownvetch ***

March, April through May 15th..

August 16th through Sept., Oct.

May 16th through August 15t

November through February...

add 10-20 lbs/acre in mixes

Low-Maintenance Slope (Steeper than 3:1

Commercial or Residential

- Kentucky Bluegrass High-Maintenance Lawn

- Kentucky 31 or Turf-Type Tall Fescue

Minimum of three (3) up to five (5) varieties of

bluegrass from approved list for use in Virginia

** Use seasonal nurse crop in accordance with seeding dates as stated below.

The existing Stormwater Management Facility was approved to service the full build out of the development within its drainage area. The existing pond, as designed, meets the 1999 Virginia Stormwater Management Handbook, which is one of the practices allowable by the City of Charles Town Code. Chapter 2 of the VSMH states sites are allowed to use the Technology-based water quality criteria so that for land development, "the post developed stormwater runoff from the impervious cover shall be treated by an appropriate BMP as required by the post-developed condition percent impervious cover as specified in Table 2-3." Table 2-3 allows an Extended Detention facility to be utilized when the impervious cover is from 22-37%. Our conservative calculations have the existing pond and it contributing drainage area (both currently developed and the proposed full build-out of the remaining drainage area) to be 37% impervious and therefore meeting the technology based criteria. No additional measures are anticipated.

(Ibs./acre)

50 - 100

60 - 100

Per Acre

200-250 lbs.

90-100%

125 lbs.

128 lbs.

20 lbs. 150 lbs

108 lbs.

20 lbs.

..Annual Rve

...Annual Rve

....Winter Rye

MINIMUM CONSTRUCTION STANDARDS

An erosion and sediment control program adopted with this plan must be consistent with the VSECH for 9VAC25-840-40 minimum standards

- 1. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
- 2. During construction of the project, soil stock piles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.
- 3. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized.
- Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform, mature enough to survive and will inhibit erosion. 4. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap
- sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.
- 5. Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation
- 6. Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.
- a. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres. b. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to
- three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic vards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 100-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.
- Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected
- 8. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.
- 9. Whenever water seeps from a slope face, adequate drainage or other protection shall be provided. 10. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden
- water cannot enter the conveyance system without first being filtered or otherwise treated to remove 11. Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet
- protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.
- 12. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.
- 13. When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.
- 14. All applicable federal, state and local requirements pertaining to working in or crossing live watercourses
- 15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is
- 16. Underground utility lines shall be installed in accordance with the following standards in addition to other
- a. No more than 500 linear feet of trench may be opened at one time.
- b. Excavated material shall be placed on the uphill side of trenches.

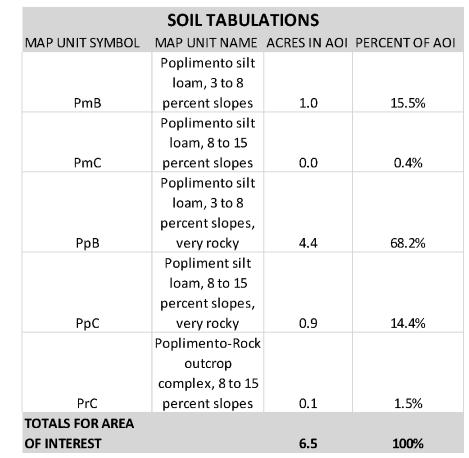
applicable criteria:

- c. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site
- d. Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote
- e. Restabilization shall be accomplished in accordance with this chapter.
- f. Applicable safety requirements shall be complied with.
- 17. Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger land-disturbing
- 18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the VESCP authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.

- 19. Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels
- a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed.
- b. Adequacy of all channels and pipes shall be verified in the following manner:
- (1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or (2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not
- overtop channel banks nor cause erosion of channel bed or banks. (b) All previously constructed man-made channels shall be analyzed by the use of a 10-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will

not cause erosion of channel bed or banks: and (c) Pipes and storm sewer systems shall be analyzed by the use of a 10-year storm to verify that stormwater

- will be contained within the pipe or system. c. If existing natural receiving channels or previously constructed man-made channels or pipes are not
- adequate, the applicant shall: (1) Improve the channels to a condition where a 10-year storm will not overtop the banks and a two-year
- storm will not cause erosion to the channel, the bed, or the banks; or (2) Improve the pipe or pipe system to a condition where the 10-year storm is contained within the
- (3) Develop a site design that will not cause the pre-development peak runoff rate from a two-year storm to increase when runoff outfalls into a natural channel or will not cause the pre-development peak runoff rate from a 10-year storm to increase when runoff outfalls into a man-made channel; or
- (4) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion.
- d. The applicant shall provide evidence of permission to make the improvements.
- e. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development condition of the subject project.
- f. If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance.
- g. Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel.
- h. All on-site channels must be verified to be adequate.
- i. Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility.
- j. In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or industrial development shall not be considered to be separate development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development condition shall be used in all engineering calculations.
- k. All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.
- I. Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or man-made channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to (i) detain the water quality volume and to release it over 48 hours; (ii) detain and release over a 24-hour period the expected rainfall resulting from the one year, 24-hour storm; and (iii) reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels as defined in any regulations promulgated pursuant to § 62.1-44.15:54 or 62.1-44.15:65 of the Act.
- m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of § 62.1-44.15:52 A of the Act and this subsection shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and attendant regulations, unless such land-disturbing activities are in accordance with 9VAC25-870-48 of the Virginia Stormwater Management Program (VSMP) Regulation or are exempt pursuant to subdivision C 7 of § 62.1-44.15:34 of the Act.
- n. Compliance with the water quantity minimum standards set out in <u>9VAC25-870-66</u> of the Virginia Stormwater Management Program (VSMP) Regulation shall be deemed to satisfy the requirements of this subdivision 19.



PUBLIC NOTICE SIGN

For Info on NPDES **Stormwater Permit** To comment on Sediment Control Plan:

Call: 800-654-5227 DEP.Plan@wv.gov

DEP 601 57TH Street SE, Charleston WV 25304

Application date:

NORBORNE GLEBE POOL (XXX) XXX-XXXX

NOTES:

1. THE SIGN WILL BE A MINIMUM 0F 24"X24" WITH 1.6" AND 0.8" LETTERS.

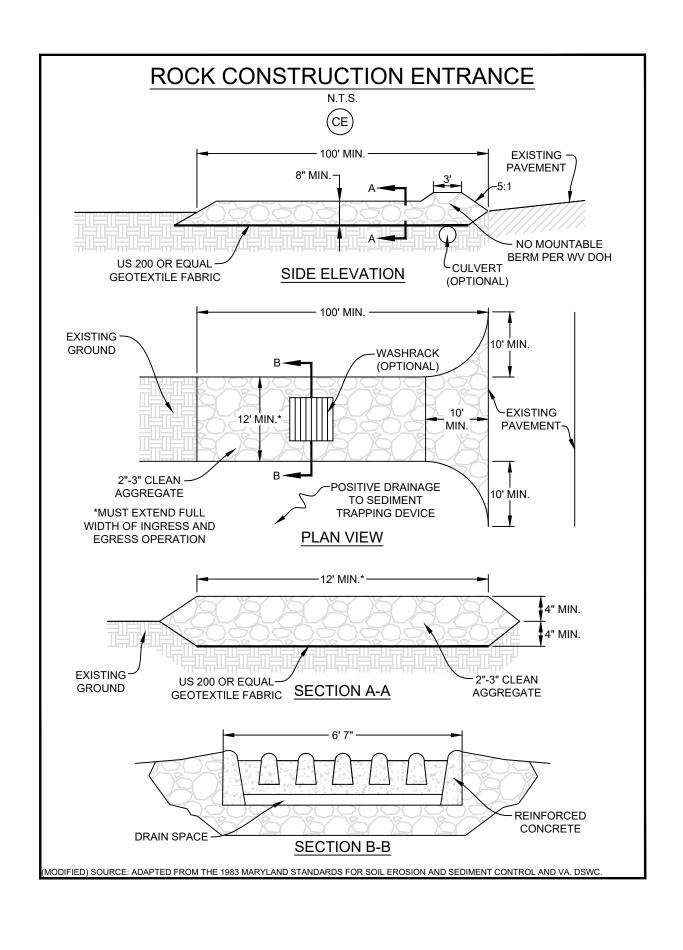
Rev. No. Date 1 05/26/2023

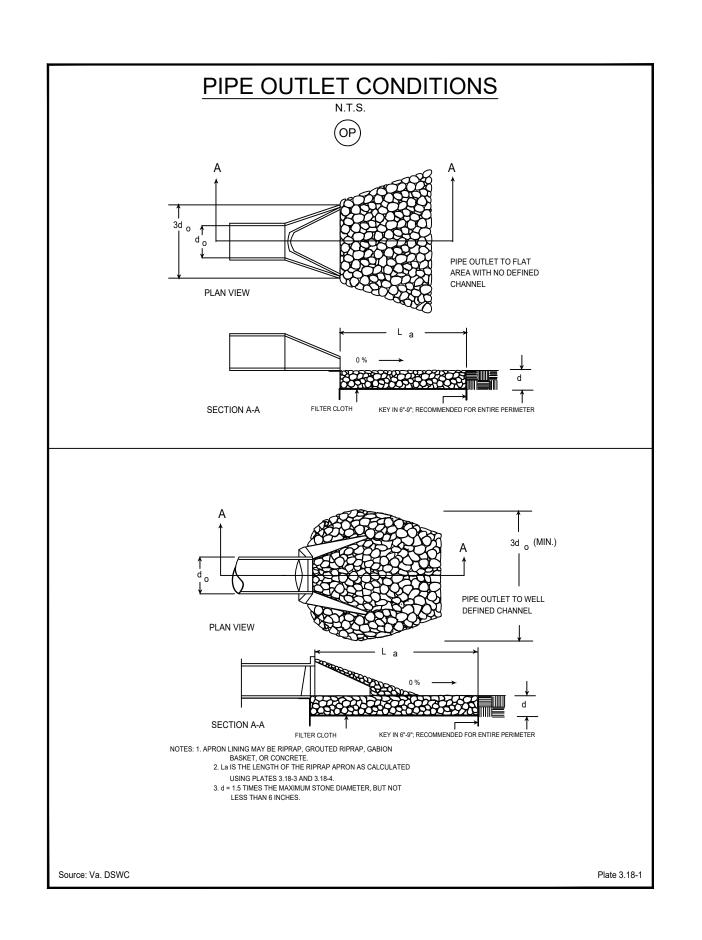
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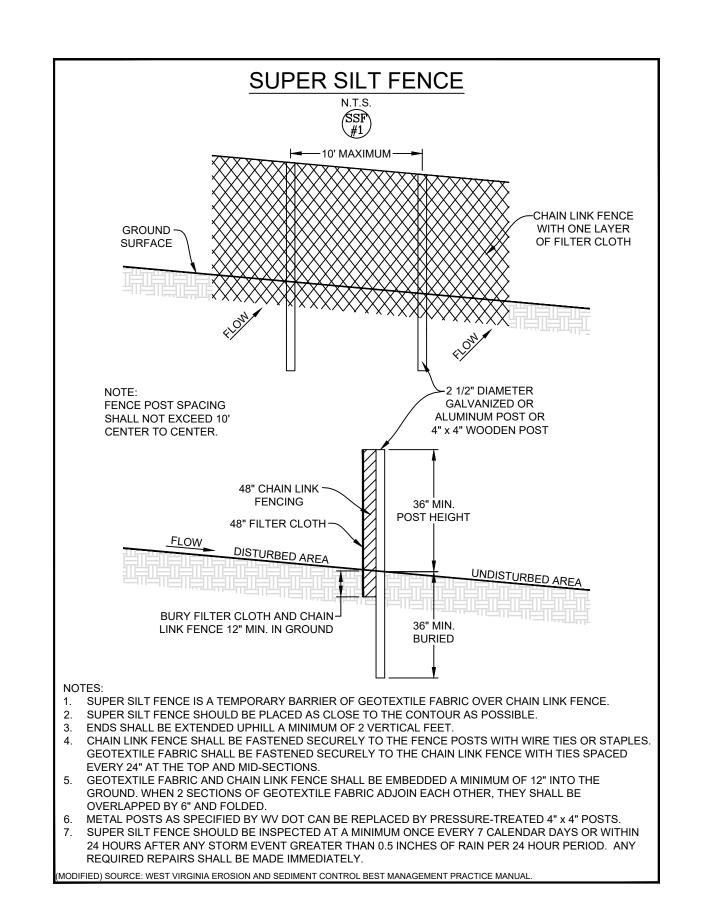
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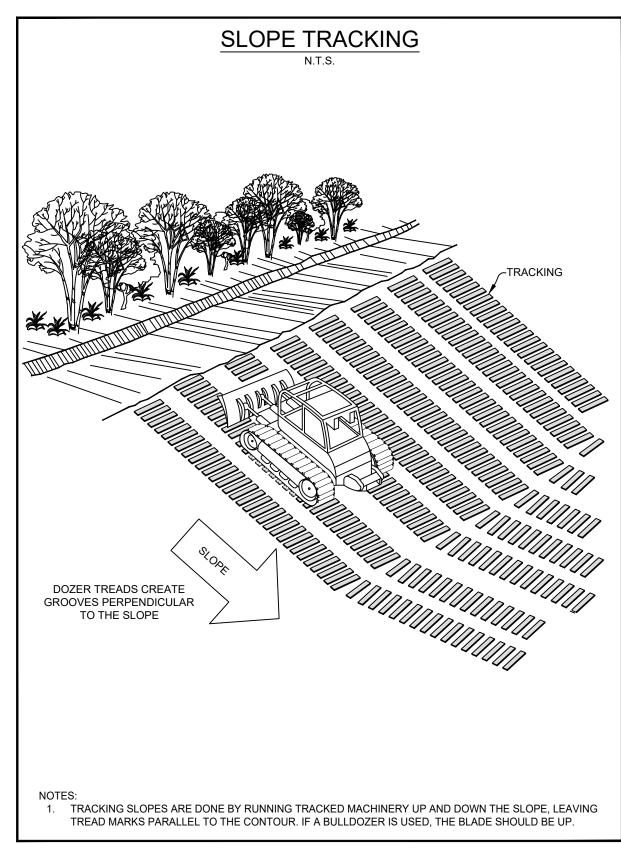
DESIGNED BY: AM/CW

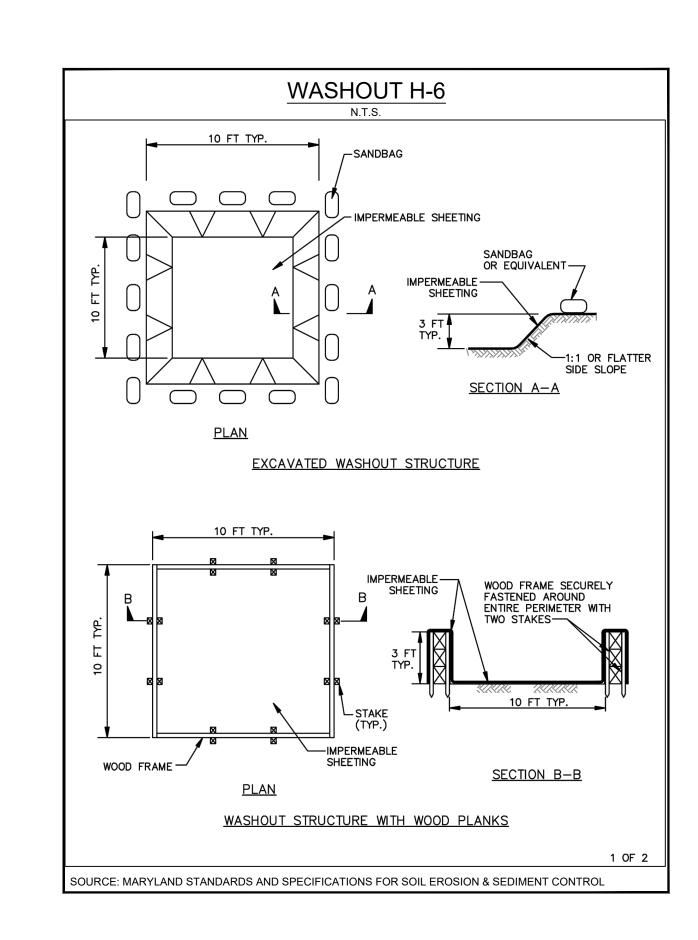
SHEET 8 OF 22

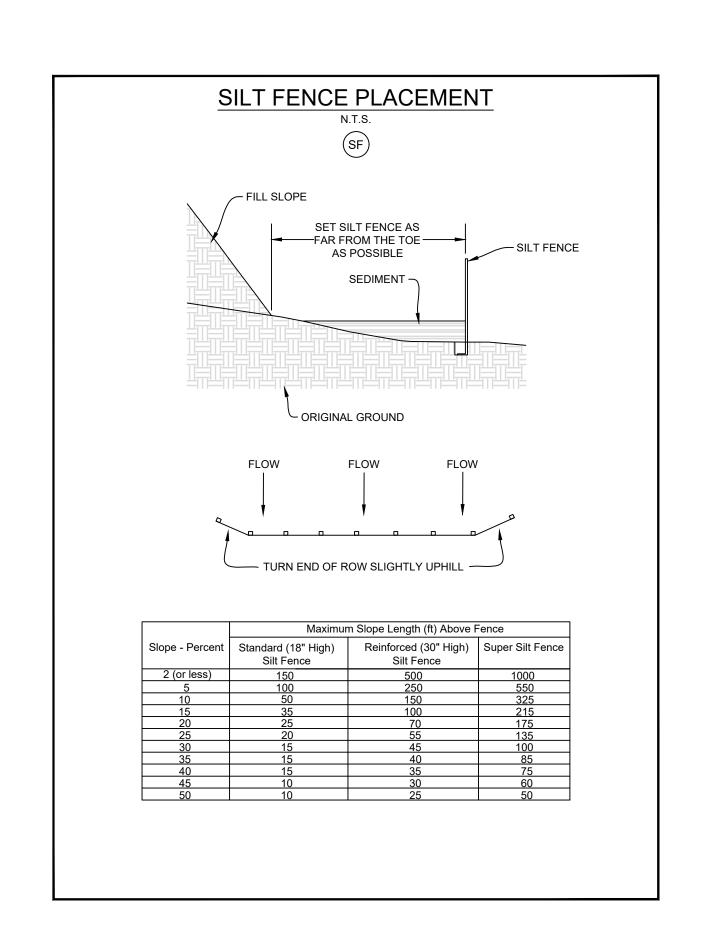


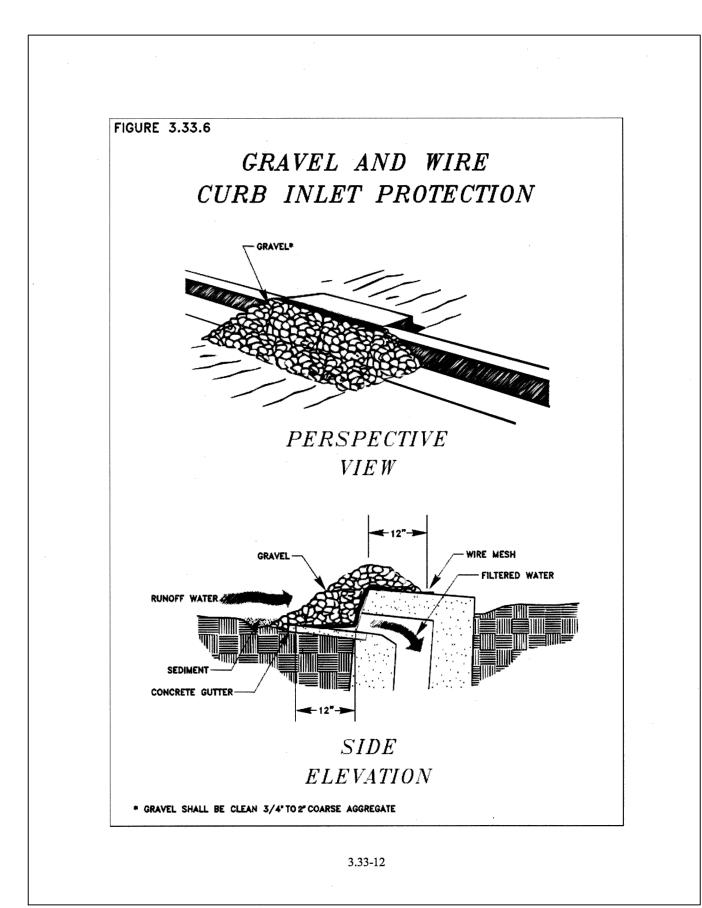


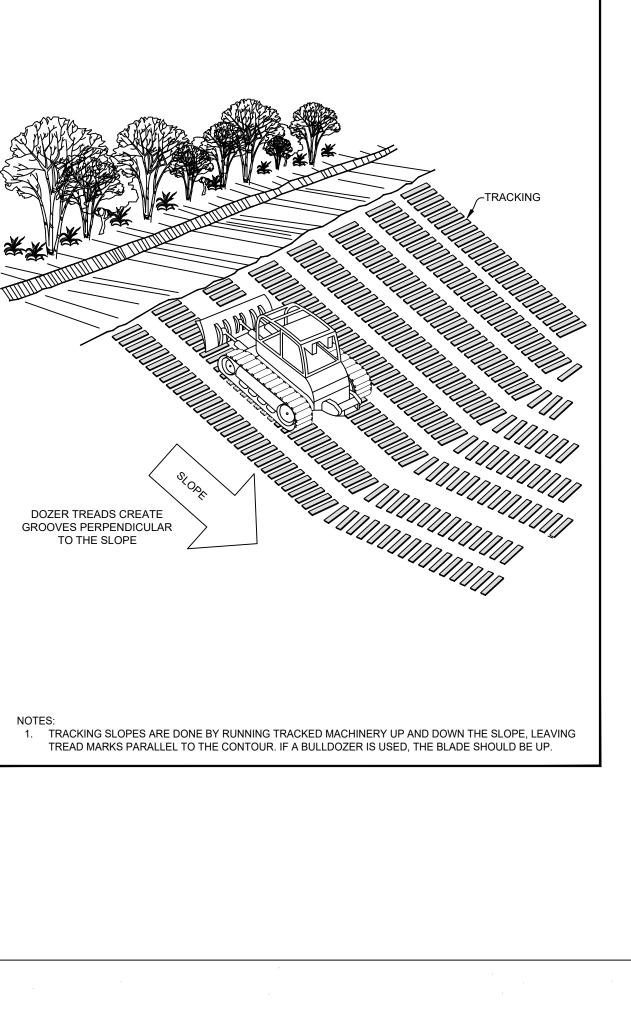


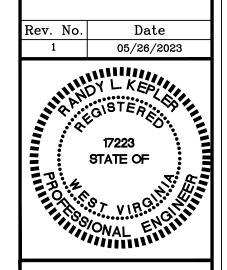








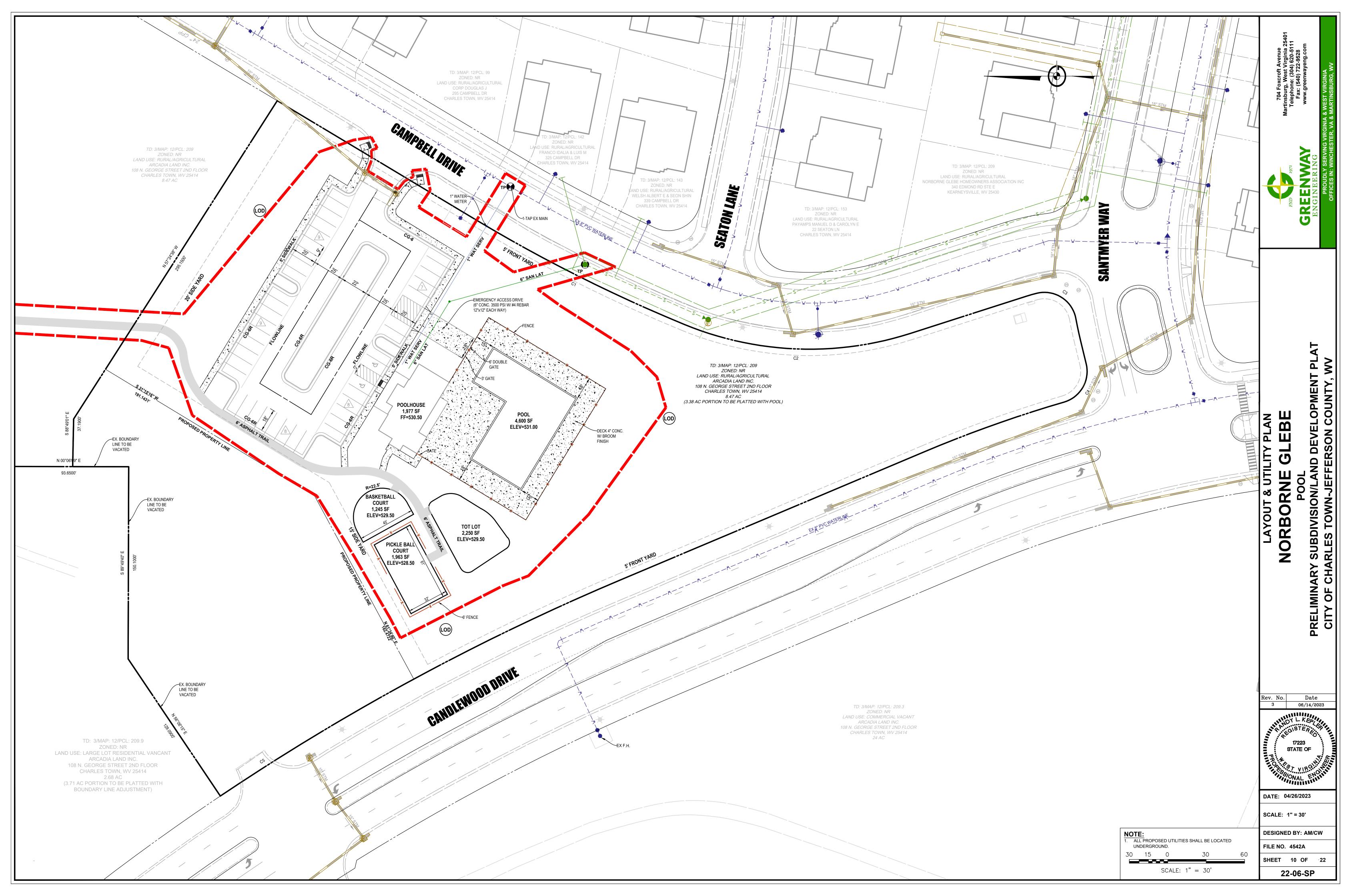


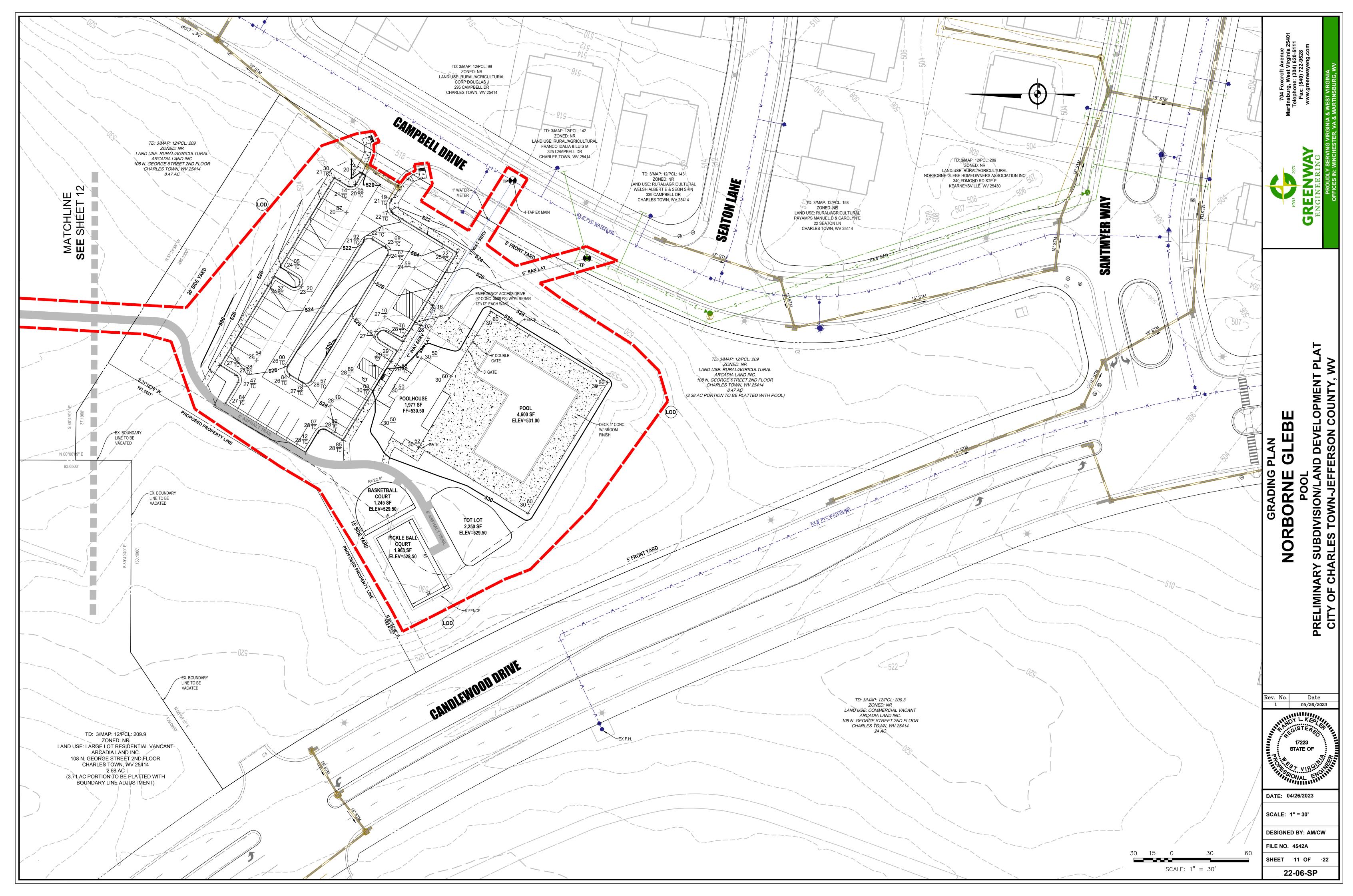


DATE: 04/26/2023 SCALE: N/A

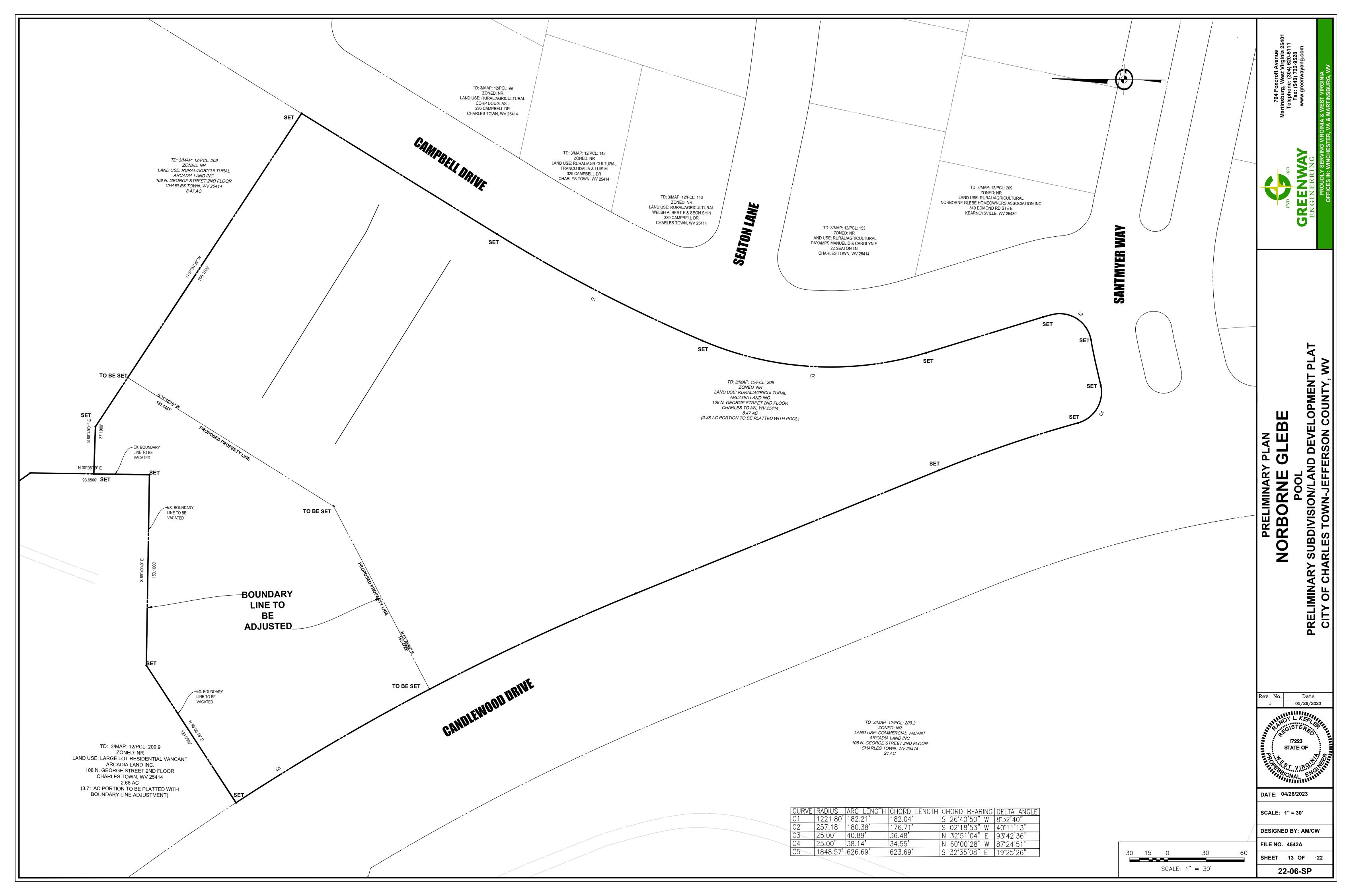
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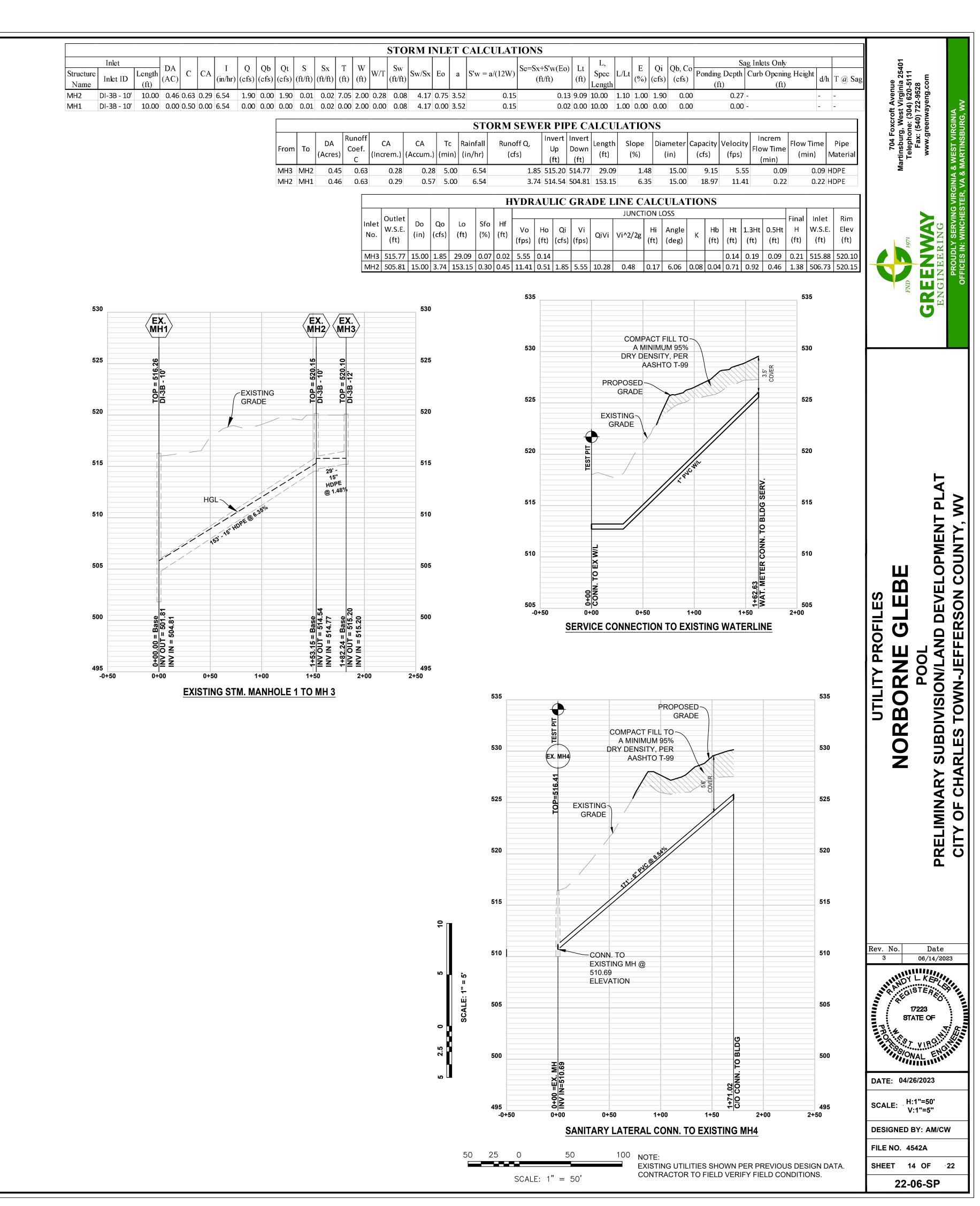
SHEET 9 OF 22 22-06-SP

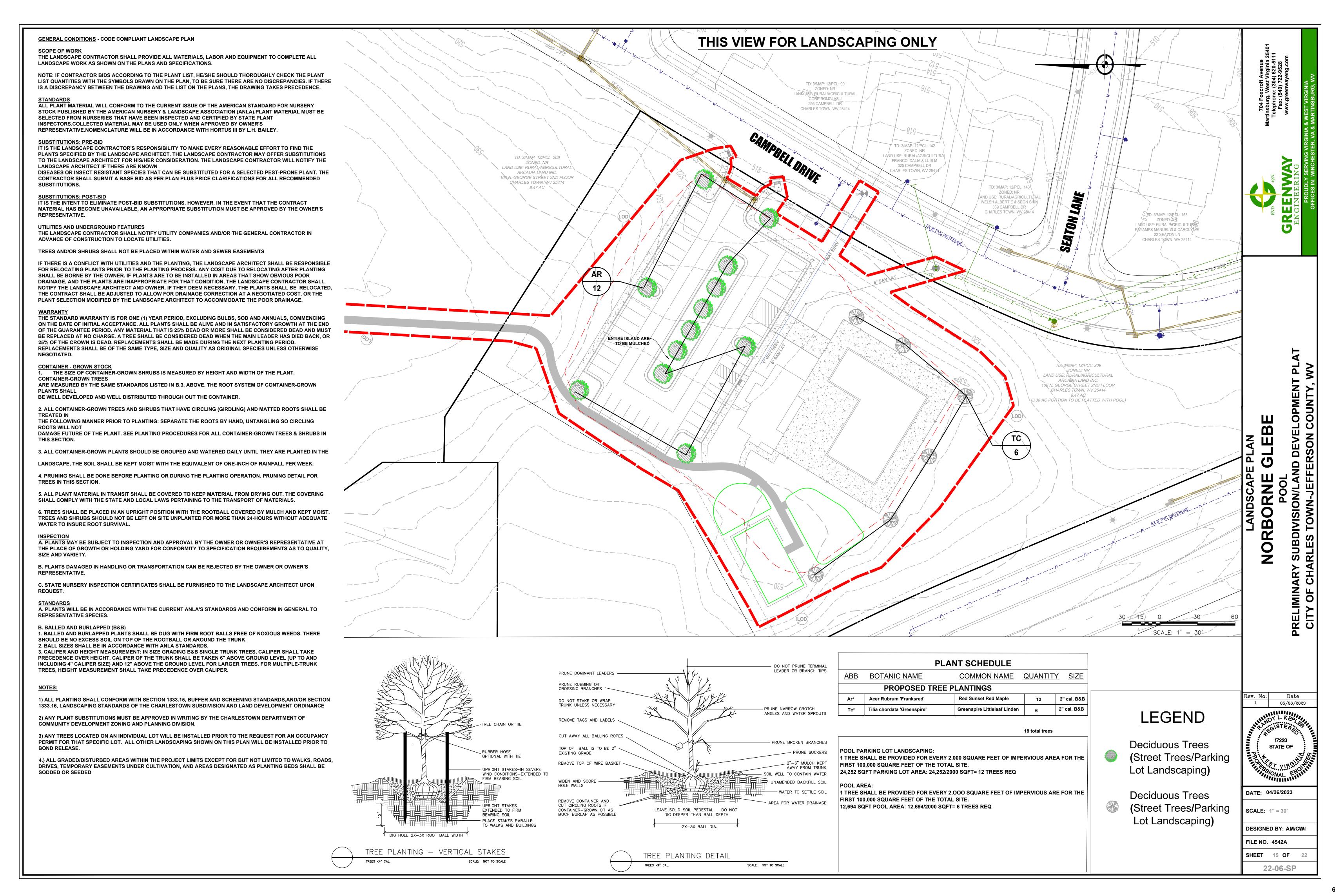


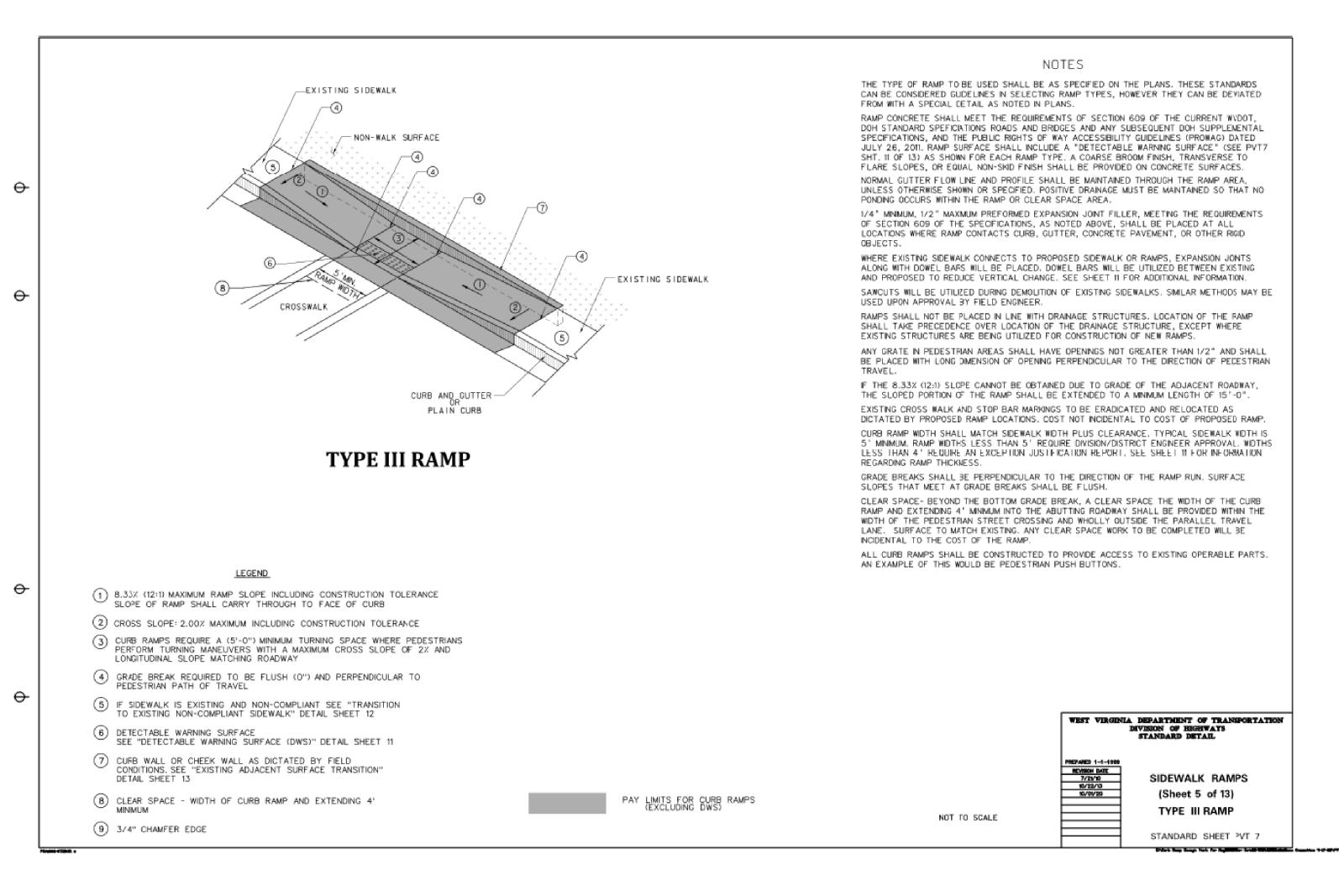


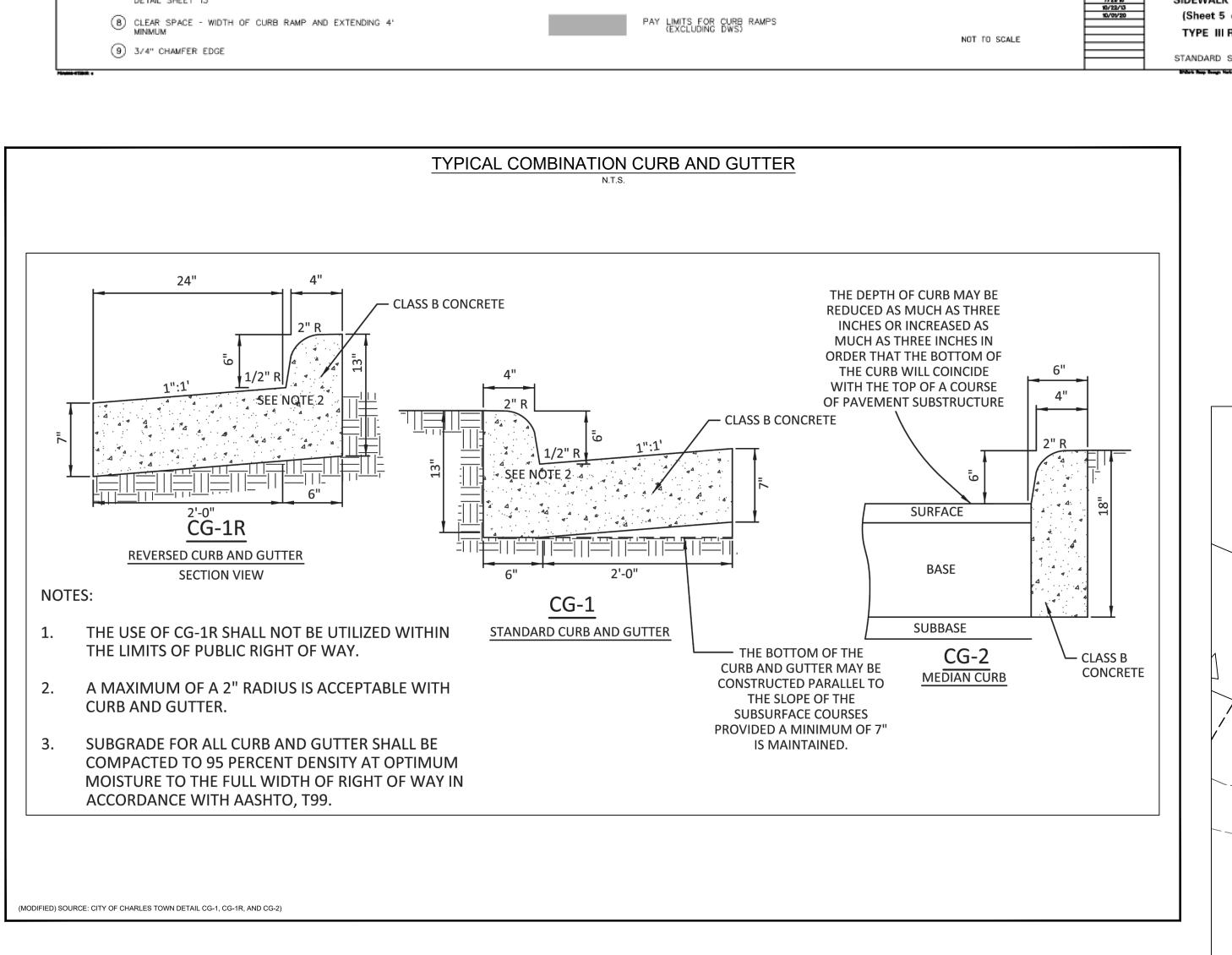


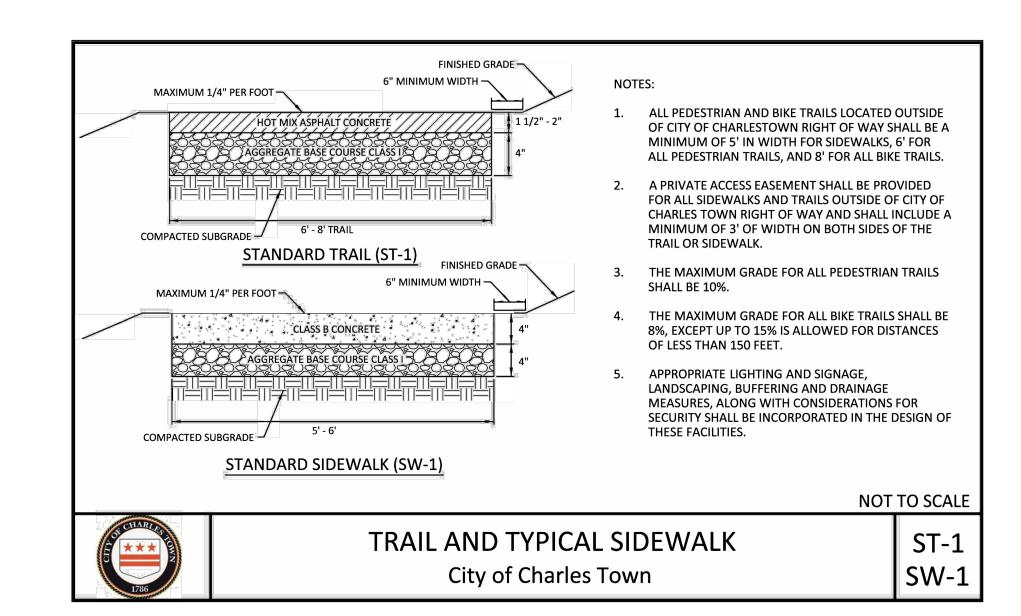


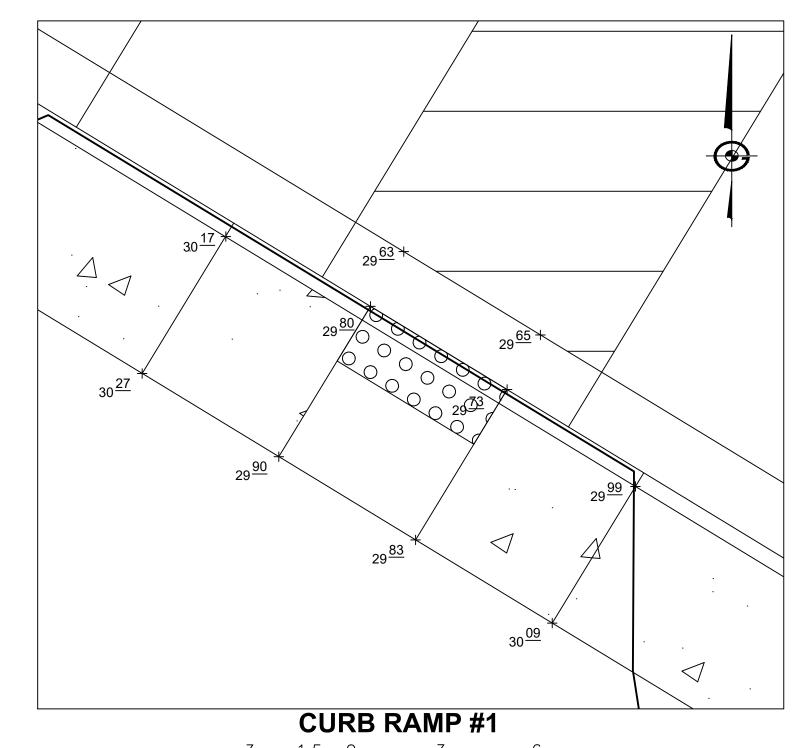


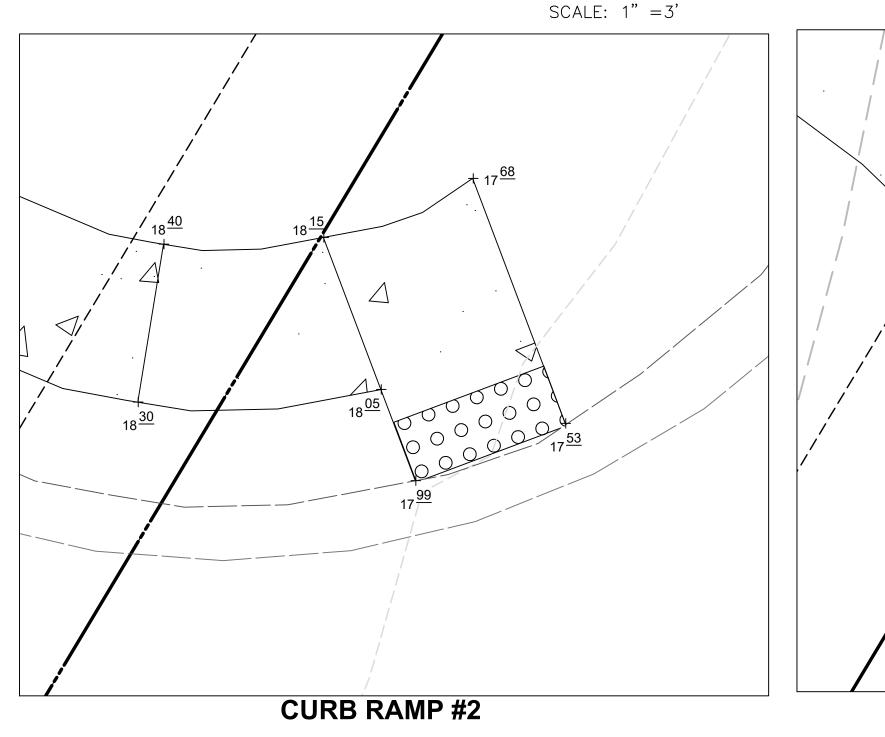


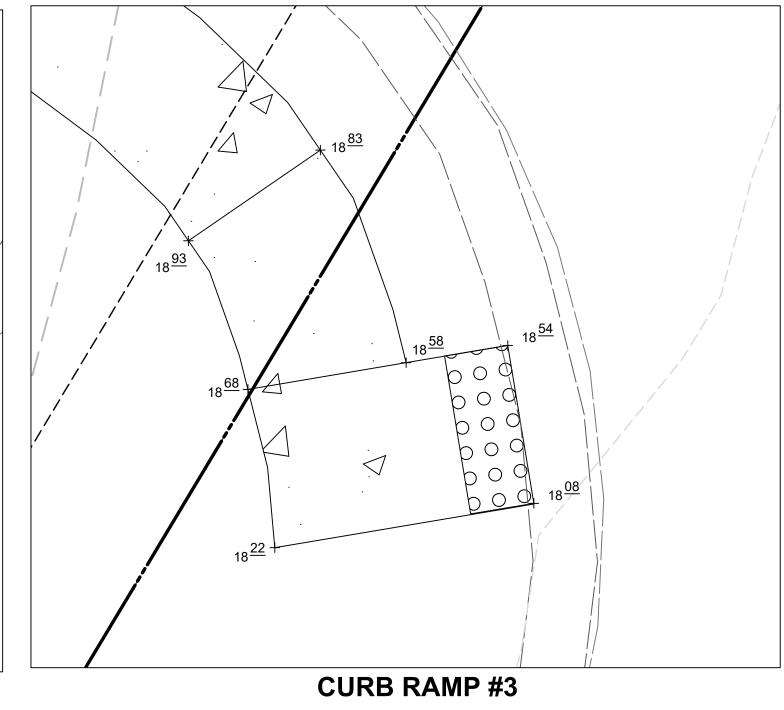












704 Foxcroft Ave

FND 1971
GREENWA
ENGINEERING

CHARLES TOWN AND CURB RAMP DETAILS

NORBORNE GLEBE

ev. No. Date

Rev. No. Date

1 05/26/2023

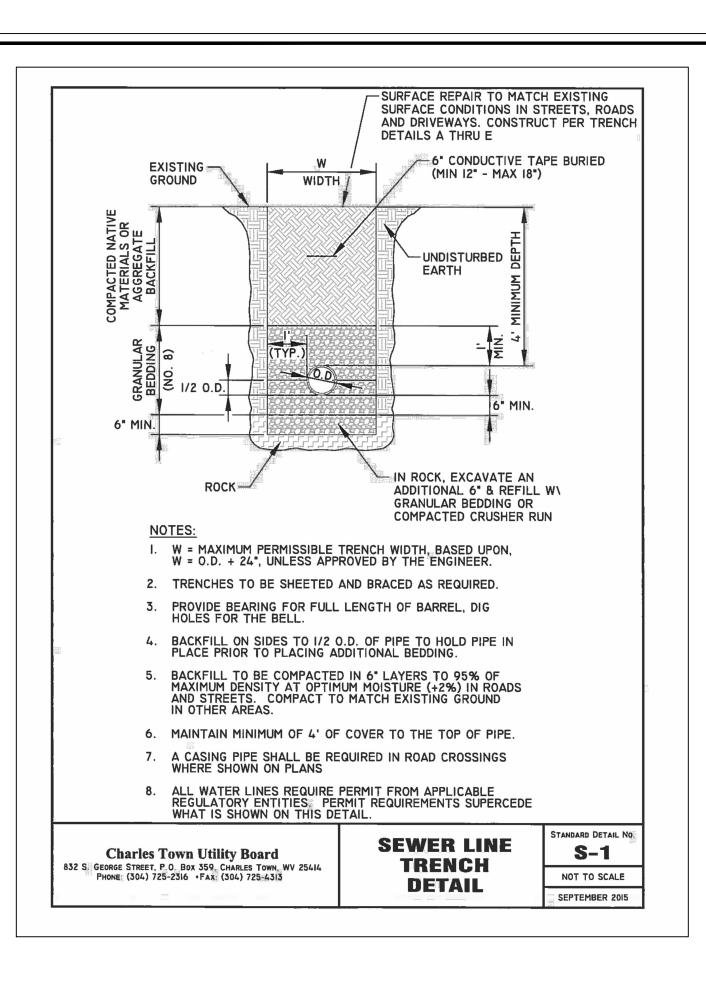
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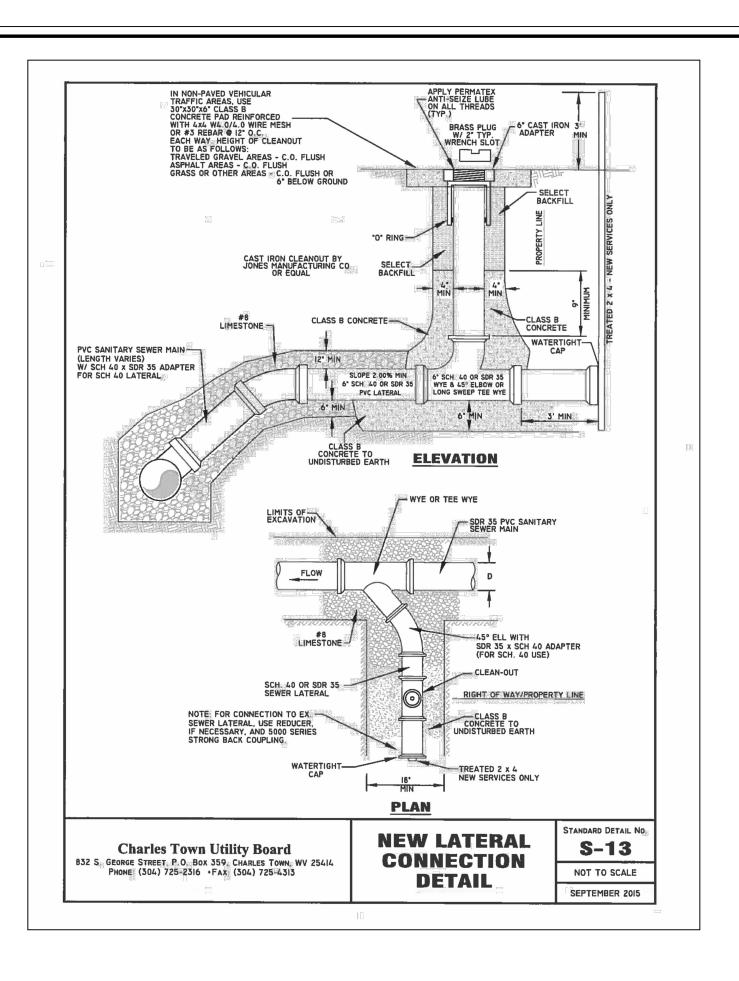
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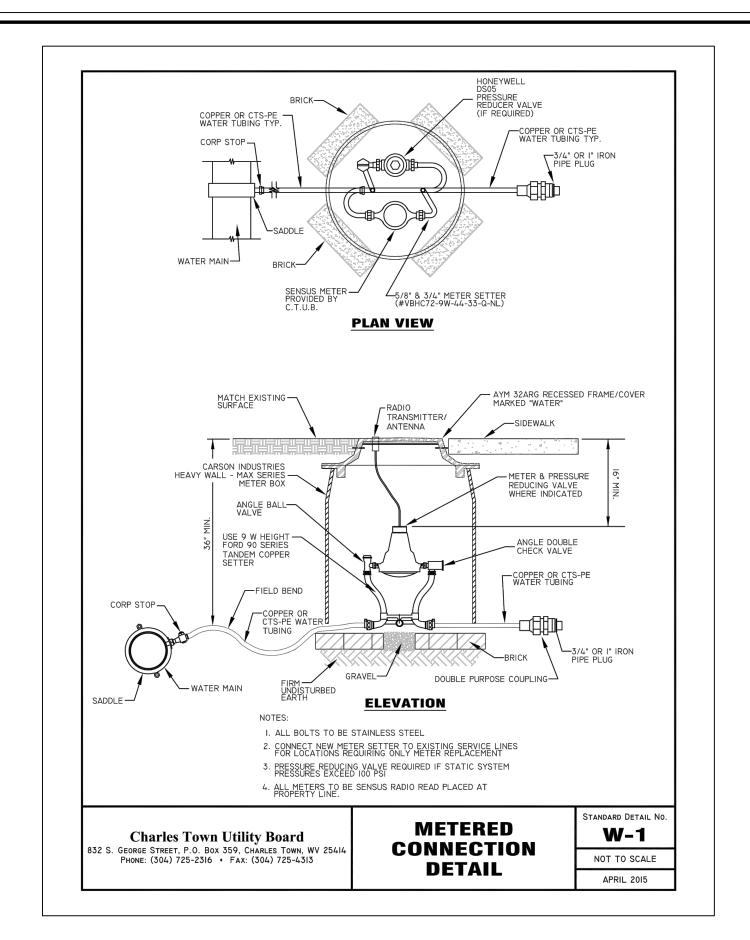
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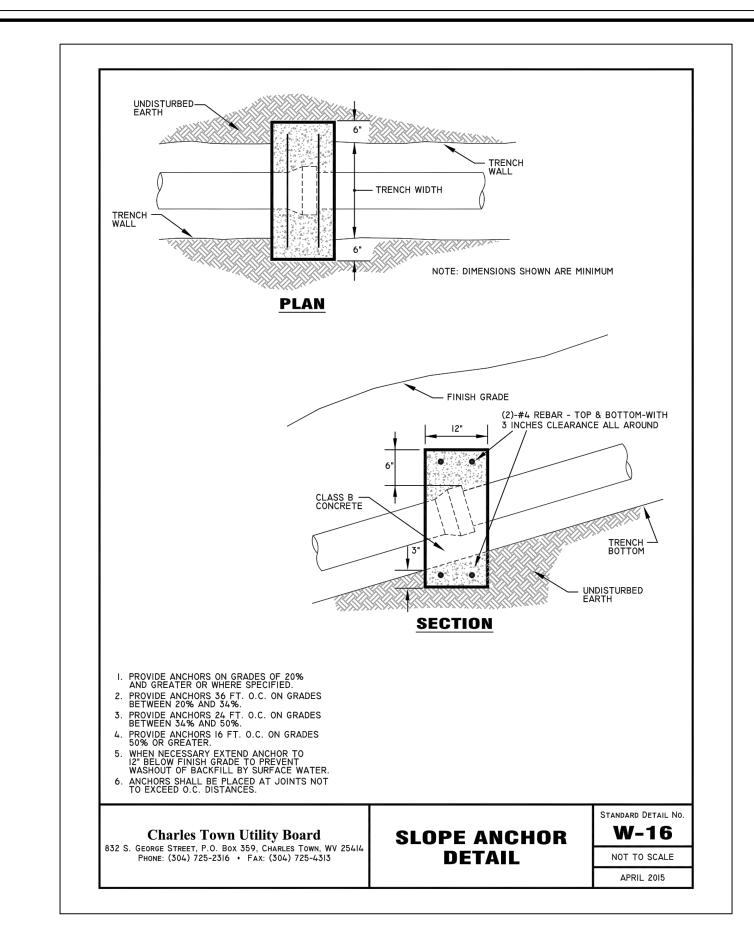
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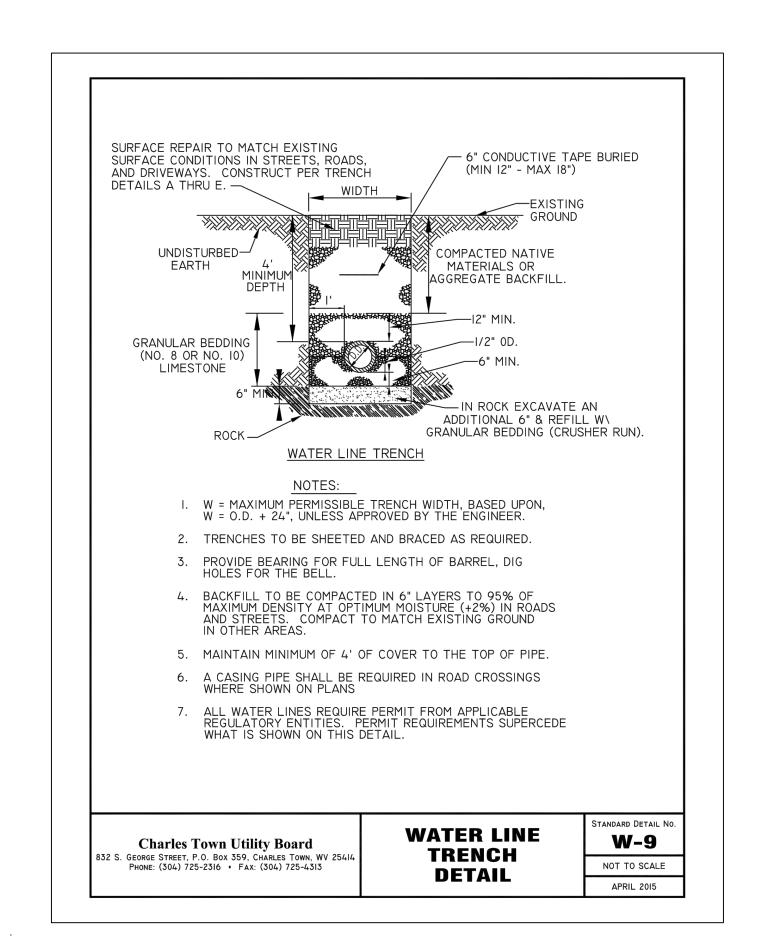
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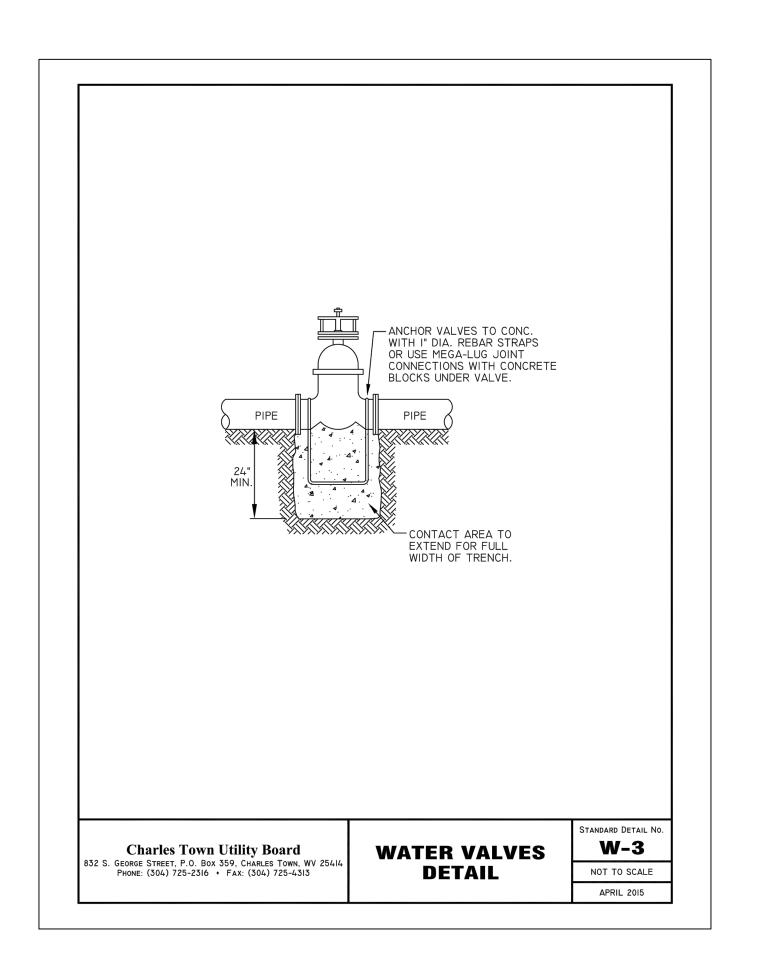


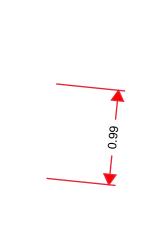


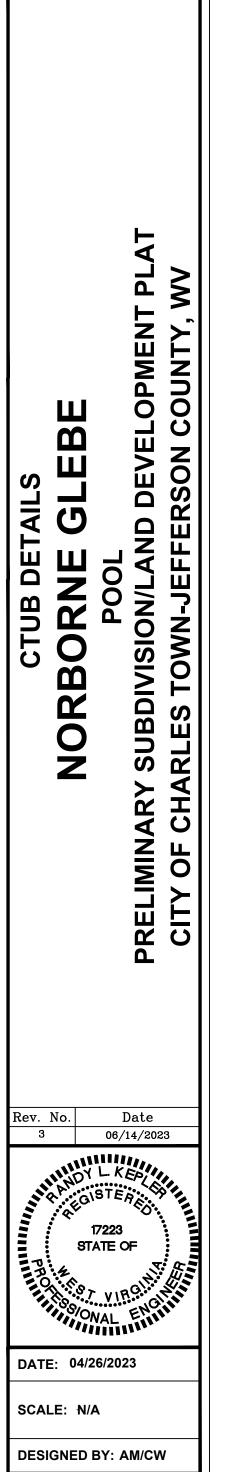












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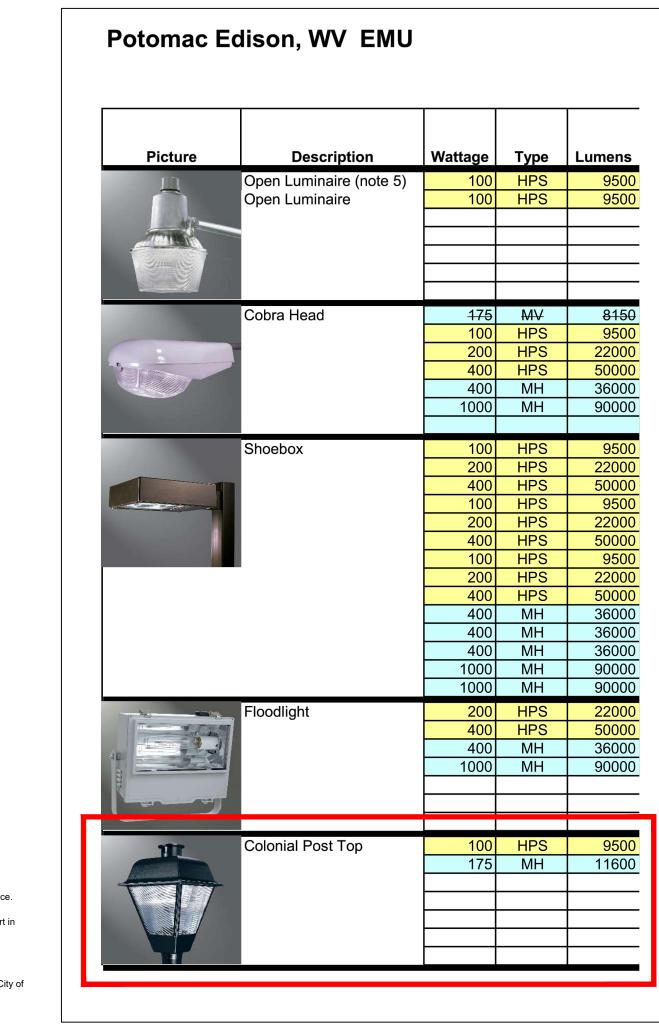
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FILE NO. 4542A

SHEET 17 OF 22

NOTE: FIXTURE TYPE AND COUNT TO BE CONFIRMED BY OWNER AND POWER COMPANY PRIOR TO ORDERING.

SHEET 18 OF 22



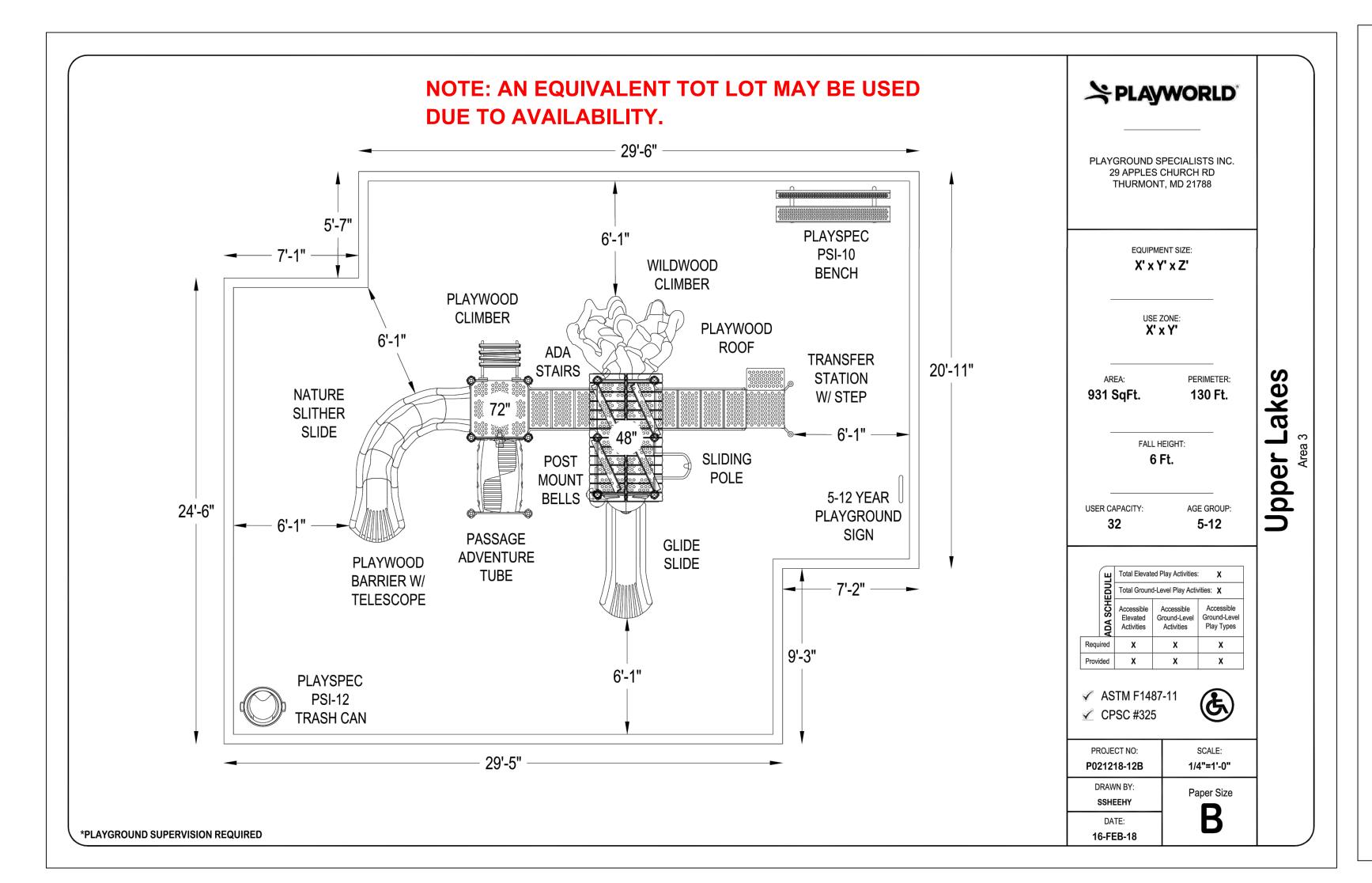
Notes:

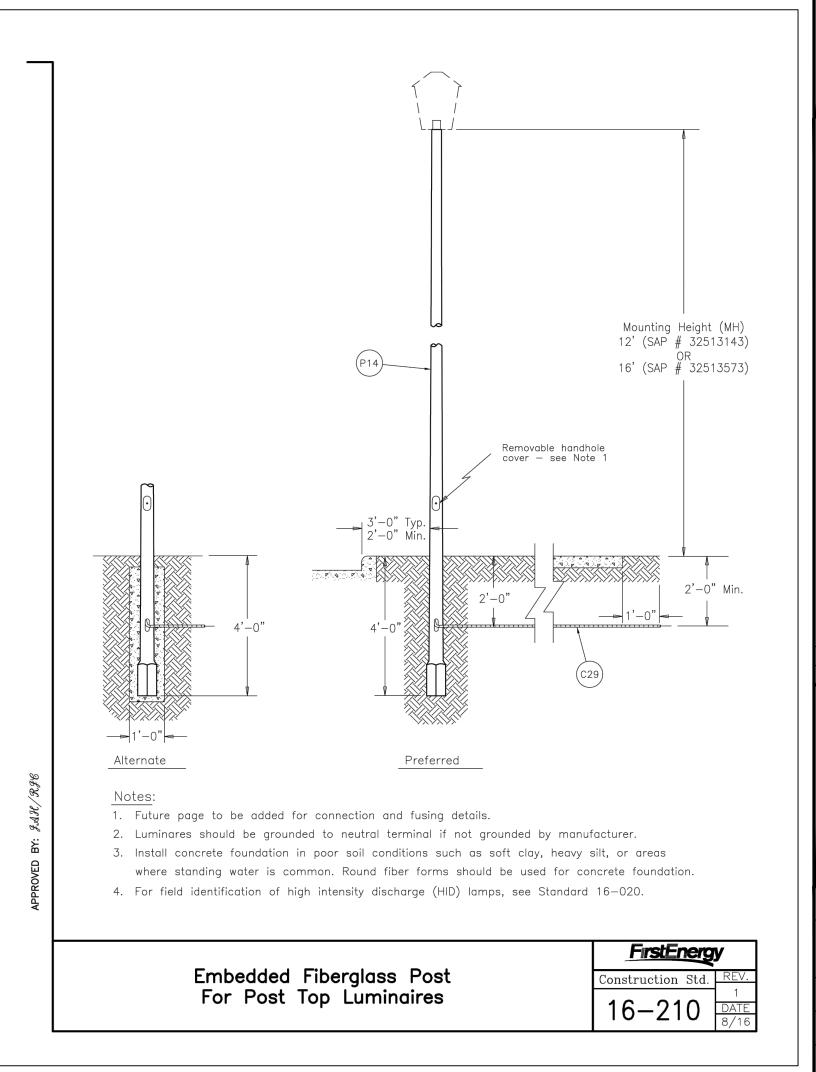
1. Use specified Lighting or an approved equal. 2. Light pole base detail to be provided by the lighting designer/contractor.

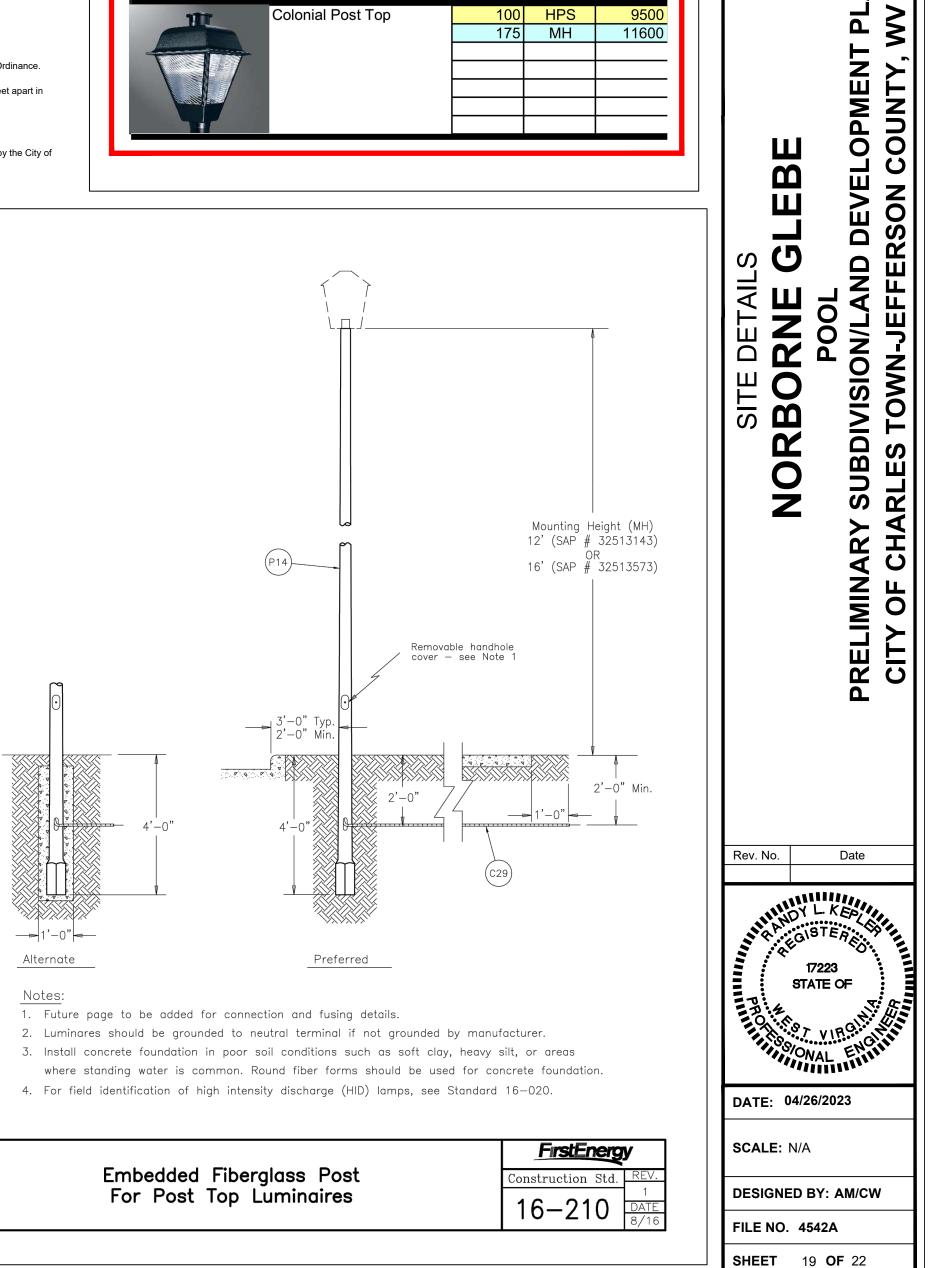
SECTION 1333.14, LIGHTING STANDARDS (A) Public Street Lighting. Street lights are required for all new Public Streets in accordance with the following standards: 1. Lights shall be provided along all City Streets and shall conform to Article 926, Underground Utilities, of the Charles Town Codified Ordinance. 2. Lights shall be provided at all entrances, intersections, and Cul-de-sacs. 3. Lights shall be spaced no more than two hundred (200) feet apart in residential areas, and no more than than three hundred (300) feet apart in

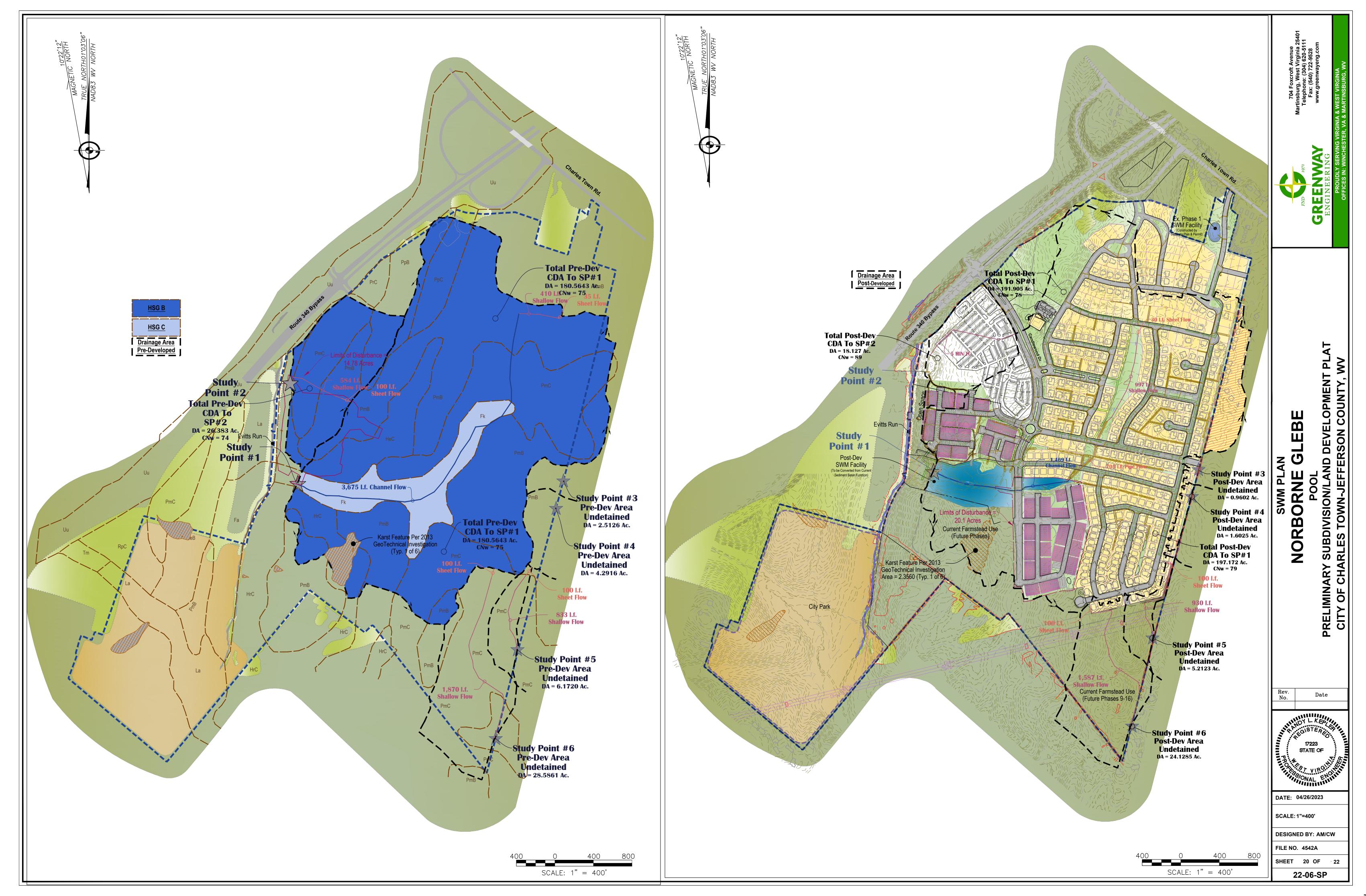
non-residential areas. 4. Lights shall use a white metal halide lighting system.

5. Lights shall conform to the power provider's requirements pertaining to watts, lumens, downlight reflectors and residential shields. 6. Lights shall be mounted on flat black poles with acorn style tops, unless otherwise specified by the Planning Commission. 7. Lights proposed within Land Developments and Subdivisions shall be provided without any installation or equipment costs incurred by the City of Charles Town.





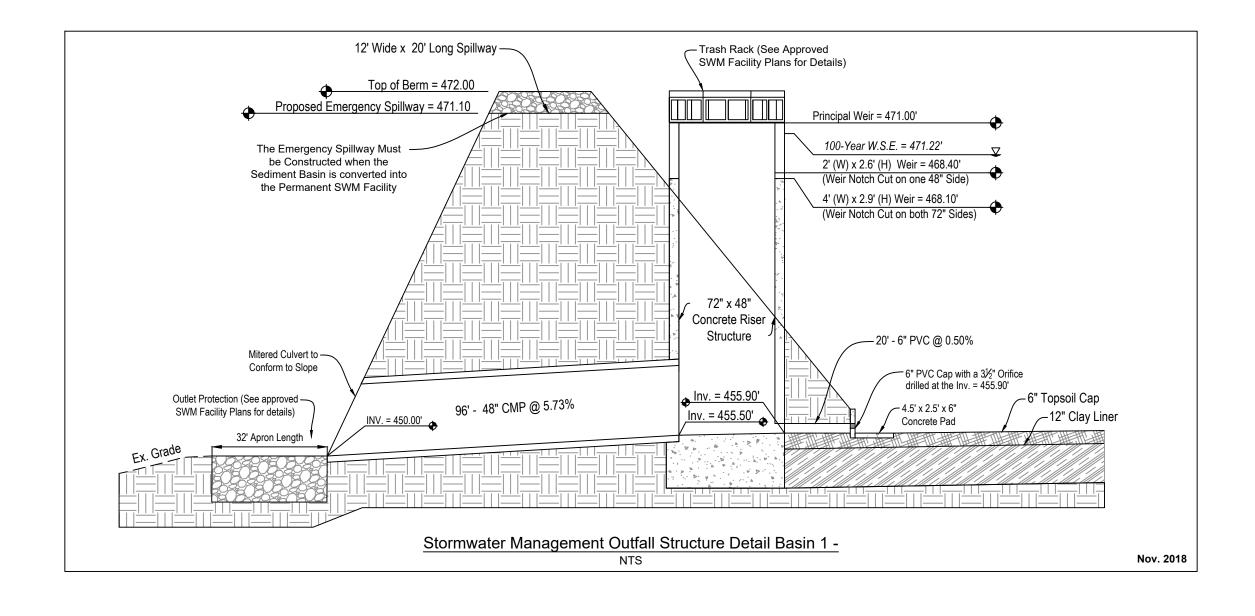


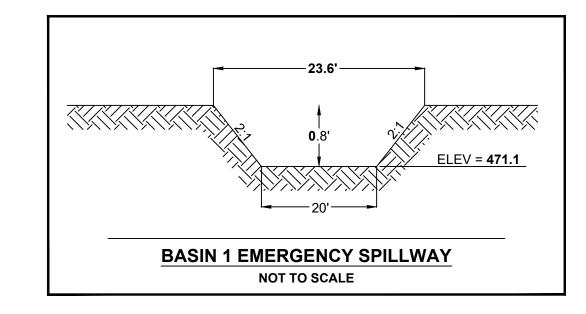








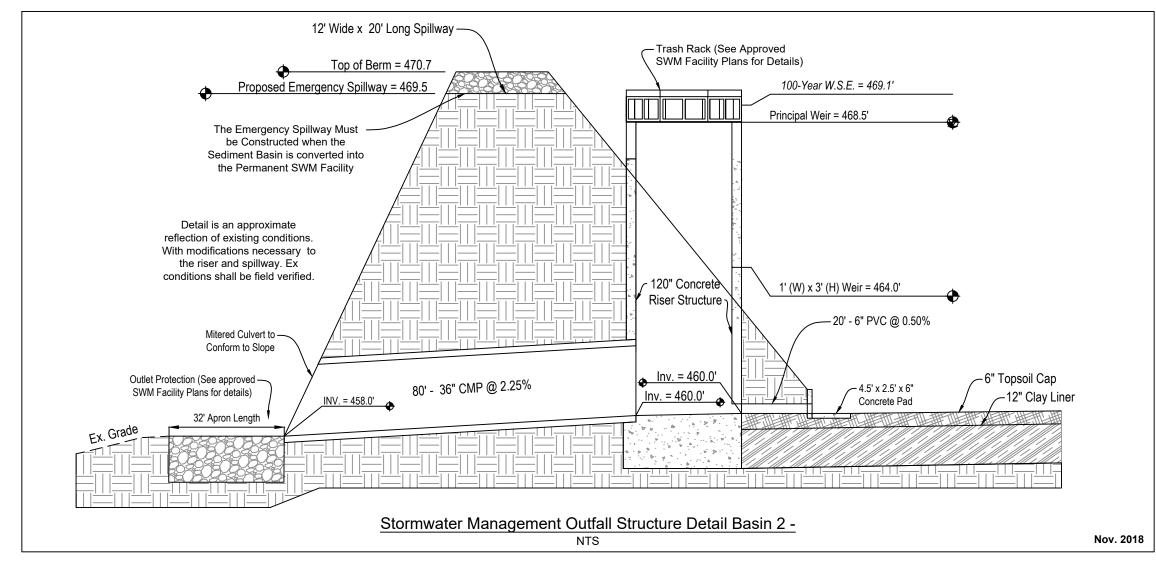




Notes:

 **Area within design high water area to remain at grades shown on E&S Phase I plan until stabilization and transition to E&S Phase II plan Contractor to coordinate with Geotechnical Engineer to ensure wet area is stable and can hold water prior to construction

SEDIMENT BASIN 1 VOLUMES					
Elevation	C.Y.	C.F.	Acre-Ft		
458	98	2,640.6	0.06062		
459	315	8,504.8	0.19524		
460	714	19,286.9	0.44277		
461	1,391	37,559.4	0.86225		
462	2,553	68,916.6	1.58211		
463	4,397	118,718.2	2.72539		
464	6,956	187,813.5	4.31161		
465	10,697	288,821.0	6.63042		
466	15,561	420,136.3	9.645		
467	21,971	593,214.7	13.61833		
468	30,182	814,907.6	18.70771		
469	40,793	1,101,407.2	25.28483		
470	53,725	1,450,562.8	33.30034		
471	69,875	1,886,611.1	43.31063		
472	89,143	2,406,868.7	55.2541		



SWM Facility Data Reference Note:

The Outfall Structure Dimensions and Elevations are Design Elevations referenced from the Approved "Site Plan for Stormwater Management Facility - Norborne Glebe" dated 2001.

Storage Volumes represent the current constructed state of the SWM Facility. These Volumes were derived from 2' interval contours and spot elevations, from a 2013 Aerial Survey. Modified to represent construction of 14A.

The Facility was constructed as a Sediment Basin, had achieved stabilization and was in functional operation. The facility is unaltered from this condition as of November, 2018.

1.2' ELEV = 569 .
RGENCY SPILLWAY
-

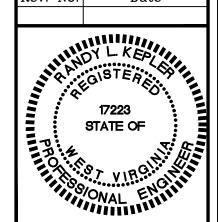
Notes:

**Area within design high water area to remain

""Area within design high water area to remain		
at grades shown on E&S Phase I plan until		
stabilization and transition to E&S Phase II plan		
Contractor to coordinate with Geotechnical		
Engineer to ensure wet area is stable and can		
hold water prior to construction		

SEDIMENT BASIN 2 VOLUMES						
Elevation	C.Y.	C.F.	Acre-Ft			
462	510	13,770.9	0.31614			
463	846	22,846.2	0.52448			
464	1,218	32,878.1	0.75478			
465	1,626	43,899.1	1.00778			
466	2,072	55,943.2	1.28428			
467	2,557	69,045.1	1.58506			
468	3,083	83,245.5	1.91105			
469	3,651	98,584.8	2.2632			
470	4,263	115,093.9	2.64219			
470.7	4,718	127,387.6	2.92442			

Rev. No.



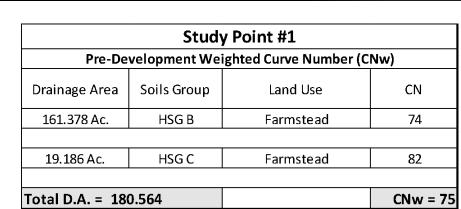
DATE: 04/26/2023 SCALE: N/A

DESIGNED BY: AM/CW

FILE NO. 4542A

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72



10tal D.A 100	.304				CIVW - 75		
Study Point #1							
Pre-Dev	velopmen	t Time of	Concentr	ation (Tc)	Calculation	1	
Segment	Segment Length	Segment Slope (%)	Flow Velocity	Manning s "n"	Surface	Time of Concentration	
Sheet Flow	35 lf	2.00%	0.09 fps	0.240	Dense Grass	6.5 mins.	
	410 lf	2.50%	2.55 fps		Unpaved	2.7 mins.	
Shallow Concentrated					(Kv=16.1 fps)		
	•						
Channel Flow	3,675 lf	1.00%	1.60 fps	0.080	Capacity = 32.01 cfs	38.3 mins.	
		Are	ea = 20.0 sf	, Perim = 2	5.0', r= 0.80'		

Total Tc = 47.5 Minutes

Study Point #1						
Pre-Deve	Pre-Development Discharge Summary					
24 Hour Storm Event	Inflow = Outlow	Peak Elevation				
	(cfs)	(feet)				
1 Year	48.42	454.50				
2 Year	77.15	454.74				
5 Year	125.80	455.03				
10 Year	170.60	455.25				
25 Year	239.12	455.52				
50 Year	299.15	455.72				
100 Year	366.55	455.92				

Weighted Curve Number (CNw)					
Drainage Area (Acres)	Land Use*	Soils Group	CN		
32.238	Paved Road & R/W Area	HSG B	94		
1.165	Paved Road & R/W Area	HSG C	96		
19.387	Open Space - Good Grass cover	HSG B	61		
3.762	Open Space - Good Grass cover	HSG C	74		
2.013	Open Spaces - Medians in R/W	HSG B	61		
7.123	SWM Area, 100% Impervious	HSG C	98		
1.709	SFA Lots, 65% Impervious	HSG B	85		
0.105	SFA Lots, 65% Impervious	HSG C	90		
112.373	SFD Lots, 38% Impervious	HSG B	75		
8.979	SFD Lots, 38% Impervious	HSG C	83		
8.318	Commercial Lots, 85% Impervious	HSG B	92		

		Study	/ Point #	1		
Post-De	velopmer	t Time of	Concent	ation (Tc) Calculatio	n
Segment	Segment Length	Segment Slope (%)	Flow Velocity	Manning s "n"	Surface	Time of Concentratio
Sheet Flow	30 lf	3.30%	0.15 fps	0.150	Short Grass	3.2 mins.
	997 lf	1.80%	2.16 fps		Unpaved	7.7 mins.
Shallow Concentrated					(Kv=16.1 fps)	
					.	
Pipe Flow	275 lf	0.75%	6.76 fps	0.012	Capacity = 21.22 cfs	0.7 mins.
24" HDPE (Ex. Str	. # 200 - Ex	. Str.# 501,	Area = 3.1	sf, Permin	n. 6.3' r=0.50'	
	T	T	.	T	r	T
Channel Flow	430 lf	0.65%	12.35 fps	0.028	Capacity = 293.30 cfs	0.6 mins.
mooth Alum. (Ex. Str. #	600 - Ex. S	tr.# 200, Aı	rea = 23.8 s	f, Permim.	17.3' r=1.38'	
	Γ	T	-	.	Г	Γ
Channel Flow	1,469 If	0.50%	6.24 fps	0.035	Capacity = 1,030.39 cfs	3.9 mins.
		А	rea = 165 s	f, Permim.	55.0' r=3.00'	
Total Flow Length = 3,2	01 lf				Total Tc =	16.1 Minute

:h =	3,201 lf				Total To	c = 16.1 Mi			
	Study Point #1								
	Post-Development Discharge Summary								
	24 Hour Storm Event	Inflow	Primary Outflow	Peak Elevation	Storage	Storage			
		(cfs)	(cfs)	(feet)	(cubic feet)	(Acre-feet)			
	1 Year	75.81	0.95	466.91	508,476	11.6730			
	2 Year	108.73	1.08	468.12	741,130	17.0140			
	5 Year	162.65	12.36	468.65	867,672	19.9190			
	10 Year	217.37	32.95	469.15	994,301	22.8260			
	25 Year	296.71	80.71	469.57	1,239,195	28.4480			
	50 Year	365.70	120.12	470.61	1,427,026	32.7600			
	100 Year	442.72	171.17	471.22	1,629,492	37.4080			

ghted Curve Number (CNI
Butea carve Hamber (CNW)
Land Use	CN
Farmstead	74
	Land Use

10tal D.A. = 20.38	,,			CIV	VV - / +			
Study Point #2								
Pre-Development Time of Concentration (Tc) Calculation								
Segment	_	Segment Slope (%)	Manning s "n"	Surface	Time of Concentration			
Sheet Flow	100 lf	5.00%	0.240	Dense Grass	10.4 mins.			
Shallow Concentrated	584 If	6.00%		Short Grass Pasture	5.7 mins.			
				Total Tc =	16.1 Minutes			

Study Point #2					
Pre-Developme	ent Discharge Summary				
24 Hour Storm	Inflow = Outlow				
Event	minow = Outlow				
	(cfs)				
1 Year	7.16				
2 Year	10.92				
5 Year	17.28				
10 Year	23.17				
25 Year	32.26				
50 Year	41.59				
100 Year	51.40				

Study P	oint #2
Post-Development Time of Co	oncentration (Tc) Calculation

Weighted Curve Number (CNw)				
Drainage Area (Acres)	Land Use*	Soils Group	CN	
0.322	Paved Road & R/W Area	HSG B	94	
1.234	Open Space - Good Grass cover	HSG B	61	
1.28	SFD Lots, 37% Impervious	HSG B	75	
15.291	Commercial Lots, 85% Impervious	HSG B	92	

Study Point #2								
Post-Development Discharge Summary								
24 Hour Storm Event	Inflow	Primary Outflow	Peak Elevation	Storage	Storage			
	(cfs)	(cfs)	(feet)	(cubic feet)	(Acre-feet)			
1 Year	16.99	4.67	464.88	42,558	0.9770			
2 Year	22.31	9.85	465.84	53,971	1.2390			
5 Year	30.44	16.51	466.70	65,035	1.4930			
10 Year	37.38	21.32	467.32	73,529	1.6880			
25 Year	47.41	26.28	468.24	86,989	1.9970			
50 Year	55.83	35.69	468.69	93,872	2.1550			
100 Year	65.01	52,69	469.06	99,535	2.2850			

	Stud	y Point #3	
Pre-	Development We	ighted Curve Number ((CNw)
Drainage Area	a Soils Group	Land Use	CN
2.513	HSG B	Farmstead	74
tal D.A. = 2	2.513		CNw = 7

Study I	Point #	‡ 3	
Pre-Development Time of C	oncent	ration (To) Calculatio
Total Flow Length = 398 lf	Т	otal Tc =	5 Minutes

Study Point #3			
Pre-Deve	lopment Disch	narge Summary	
24 Hour Storm Event	Flow	Runoff Volumes	
	(cfs)	(acre-ft)	
1 Year	0.76	0.116	
2 Year	1.26	0.174	
5 Year	2.12	0.274	
10 Year	2.91	0.367	
25 Year	4.13	0.510	
50 Year	5.21	0.637	
100 Year	6.42	0.781	

P	Post-Development Study P	oint #3	
	Weighted Curve Number (CN	lw)	
Drainage Area (Acres)	Land Use*	Soils Group	CN
0.26	Paved Road & R/W Area	HSG B	94
0.7	SFD Lots, 37% Impervious	HSG B	75
0.7 Total D.A. =		HSG B	75

Study Point	t #3	
Post-Development Time of Conce	ntration (T	c) Calculation
Total Flow Length = 260 lf	Total Tc =	5 Minutes

Study Point #3			
Post-Development Discharge Summary			
24 Hour		D	
Storm Event	Flow	Runoff Volume	
	(cfs)	(acre-ft)	
1 Year	0.54	0.070	
2 Year	0.78	0.098	
5 Year	1.16	0.143	
10 Year	1.51	0.184	
25 Year	2.02	0.245	
50 Year	2.46	0.298	
100 Year	2.94	0.358	

Study Point #4			
Pre-De	velopment We	ighted Curve Number (C	Nw)
Drainage Area	Soils Group	Land Use	CN
4.29	HSG B	Farmstead	74
Total D.A. = 4.2	.9		CNw = 74

Study P	oint #4	
Pre-Development Time of Co	ncentration (Tc)	Calculation
Total Flow Length = 364 If	Total Tc = 5	Minutes

Study Point #4			
Pre-Development Discharge Summary			
24 Hour	Пом	Dun off Values os	
Storm Event	Flow	Runoff Volumes	
	(cfs)	(acre-ft)	
1 Year	1.29	0.198	
2 Year	2.15	0.298	
5 Year	3.61	0.468	
10 Year	4.97	0.627	
25 Year	7.06	0.871	
50 Year	8.89	1.088	
100 Year	10.96	1.334	

Post-Development Study Point #4 Weighted Curve Number (CNw)			
1.6	SFD Lots, 37% Impervious	HSG B	75

Study Poin	t #4	
Post-Development Time of Conce	entration (To	c) Calculatio

Study Point #4			
Post-Development Discharge Summary			
24 Hour	Flow	Dun off Valumos	
Storm Event	FIOW	Runoff Volumes	
	(cfs)	(acre-ft)	
1 Year	0.54	0.079	
2 Year	0.87	0.118	
5 Year	1.43	0.183	
10 Year	1.95	0.244	
25 Year	2.74	0.337	
50 Year	3.43	0.419	
100 Year	4.21	0.512	

	Study	y Point #5	
Pre-De	velopment We	ighted Curve Number (CNw)
Drainage Area	Soils Group	Land Use	CN
6.172	HSG B	Farmstead	74

Study Point #5						
Pre-Development Time of Concentration (Tc) Calculation						
Segment	Segment Length	Segment Slope (%)	Manning s "n"	Surface	Time of Concentration	
Sheet Flow	100 lf	3.00%	0.240	Dense Grass	12.8 mins.	
Shallow Concentrated	833 If	5.00%		Short Grass Pasture	8.9 mins.	
		•		•	•	
				Total Tc =	21.7 Minutes	

Study Point #5						
Pre-Development Discharge Summary						
24 Hour	Flow	Dun off Valumos				
Storm Event	FIOW	Runoff Volumes				
	(cfs)	(acre-ft)				
1 Year	1.86	0.284				
2 Year	2.86	0.428				
5 Year	4.53	0.673				
10 Year	6.05	0.900				
25 Year	8.36	1.252				
50 Year	10.38	1.563				
100 Year	12.63	1.916				

Post-Development Study Point #5							
Weighted Curve Number (CNw)							
Drainage Area (Acres)	Land Use*	Soils Group	CN				
0.052	Paved Road & R/W Area	HSG B	94				
4.145	Farmsteads	HSG B	74				
1.015	SFD Lots, 37% Impervious	HSG B	75				
			,				
Total D.A. =	: 18.127 Ac.		CNw = 7				

Study Point #5						
Post-Development Time of Concentration (Tc) Calculation						
Segment	Segment Length	Segment Slope (%)	_	Surface	Time of Concentration	
Sheet Flow	100	3.00%	0.240	Dense Grass	12.8 mins.	
Shallow Concentrated	930 lf	5.00%		Short Grass Pasture	9.9 mins.	
		•				
				Total Tc =	18.4 Minutes	

Study Point #5						
Post-Development Discharge Summary						
24 Hour	Flow	Runoff Volumes				
Storm Event	FIOW	Runoff volumes				
	(cfs)	(acre-ft)				
1 Year	1.59	0.240				
2 Year	2.45	0.362				
5 Year	3.88	0.569				
10 Year	5.19	0.761				
25 Year	7.18	1.058				
50 Year	8.92	1.321				
100 Year	10.85	1.620				

Drainage Area	Soils Group	Land Use	CN
28.586	HSG B	Farmstead	74

Study Point #6						
Pre-Develop	ment Tin	ne of Conc	entration	(Tc) Calcul	ation	
Segment	Segment Length	Segment Slope (%)	_	Surface	Time of Concentration	
Sheet Flow	100 lf	3.30%	0.240	Dense Grass	12.3 mins.	
Shallow Concentrated	1,870 lf	3.00%		Short Grass Pasture	25.7 mins.	
	•	•				
				Total Tc =	38.0 Minutes	

Study Point #6						
Pre-Development Discharge Summary						
24 Hour Storm Event	Flow	Runoff Volumes				
	(cfs)	(acre-ft)				
1 Year	8.12	1.309				
2 Year	13.02	1.973				
5 Year	21.31	3.104				
10 Year	28.95	4.154				
25 Year	40.62	5.778				
50 Year	50.84	7.217				
100 Year	82.32	8.850				

Post-Development Study Point #6						
Weighted Curve Number (CNw)						
Drainage Area (Acres)	Land Use*	Soils Group	CN			
0.141	Paved Road & R/W Area	HSG B	94			
23.306	Farmsteads	HSG B	74			
0.681	SFD Lots, 37% Impervious	HSG B	75			
Total D.A. =	24.128 Ac.		CNw = 74			

Study Point #6						
Post-Develo	oment Tin	ne of Con	centratio	n (Tc) Calcu	lation	
Segment	Segment Length	Segment Slope (%)	_	Surface	Time of Concentration	
Sheet Flow	100	3.00%	0.240	Dense Grass	12.8 mins.	
Shallow Concentrated	1,587 lf	3.00%		Short Grass Pasture	21.8 mins.	
				Total Tc =	34.6 Minutes	

Study Point #6						
Post-Development Discharge Summary						
24 Hour	Flow	Runoff Volumes				
Storm Event	FIOW	Kulloli Volumes				
	(cfs)	(acre-ft)				
1 Year	7.15	1.112				
2 Year	11.37 1.675					
5 Year	18.49	2.633				
10 Year	25.02	3.523				
25 Year	35.00	4.898				
50 Year	43.73	6.117				
100 Year	53.51	7.500				

	SEDIMENT BASIN 1 VOLUMES							
Elevation	C.Y.	C.F.	Acre-Ft					
458	98	2,640.6	0.06062					
459	315	8,504.8	0.19524					
460	714	19,286.9	0.44277					
461	1,391	37,559.4	0.86225					
462	2,553	68,916.6	1.58211					
463	4,397	118,718.2	2.72539					
464	6,956	187,813.5	4.31161					
465	10,697	288,821.0	6.63042					
466	15,561	420,136.3	9.645					
467	21,971	593,214.7	13.61833					
468	30,182	814,907.6	18.70771					
469	40,793	1,101,407.2	25.28483					
470	53,725	1,450,562.8	33.30034					
471	69,875	1,886,611.1	43.31063					
472	89,143	2,406,868.7	55.2541					

	SEDIMENT BASIN 2 VOLUMES						
Elevation	C.Y.	C.F.	Acre-Ft				
 462	510	13,770.9	0.31614				
463	846	22,846.2	0.52448				
464	1,218	32,878.1	0.75478				
465	1,626	43,899.1	1.00778				
466	2,072	55,943.2	1.28428				
467	2,557	69,045.1	1.58506				
468	3,083	83,245.5	1.91105				
469	3,651	98,584.8	2.2632				
470	4,263	115,093.9	2.64219				
470.7	4,718	127,387.6	2.92442				
·	<u> </u>	<u> </u>					

SEDIMENT BASIN 2 VOLUMES						
Elevation	C.Y.	C.F.	Acre-Ft			
462	510	13,770.9	0.31614			
463	846	22,846.2	0.52448			
464	1,218	32,878.1	0.75478			
465	1,626	43,899.1	1.00778			
466	2,072	55,943.2	1.28428			
467	2,557	69,045.1	1.58506			
468	3,083	83,245.5	1.91105			
469	3,651	98,584.8	2.2632			
470	4,263	115,093.9	2.64219			
470.7	4,718	127,387.6	2.92442			
	462 463 464 465 466 467 468 469 470	Elevation C.Y. 462 510 463 846 464 1,218 465 1,626 466 2,072 467 2,557 468 3,083 469 3,651 470 4,263	Elevation C.Y. C.F. 462 510 13,770.9 463 846 22,846.2 464 1,218 32,878.1 465 1,626 43,899.1 466 2,072 55,943.2 467 2,557 69,045.1 468 3,083 83,245.5 469 3,651 98,584.8 470 4,263 115,093.9			

Rev.	No.	Date
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DATE: 04/26/2023

CALE: N/A				
DESIGNED BY: AM/CW				
ILE NO. 4542A				
SHEET 22 OF 22				
22-06-SP				



Planning Commission 101 East Washington Street Charles Town, WV 25414

Meeting: 07/24/23 Department: Planning Commission Category: Report Initiator:

SCHEDULED

AGENDA ITEM (ID #)

SLD2023-07: Happy Retreat Sketch Plan

ATTACHMENTS:

- 1. Staff Report.pdf
- 2. Application.pdf3. KH Review.pdf
- 4. Plans.pdf



Sketch Plan Completeness Report SLD2023-07

Date: For the July 24, 2023 Planning Commission meeting

Applicant: Stromberg, Garrigan, and Associates Inc.

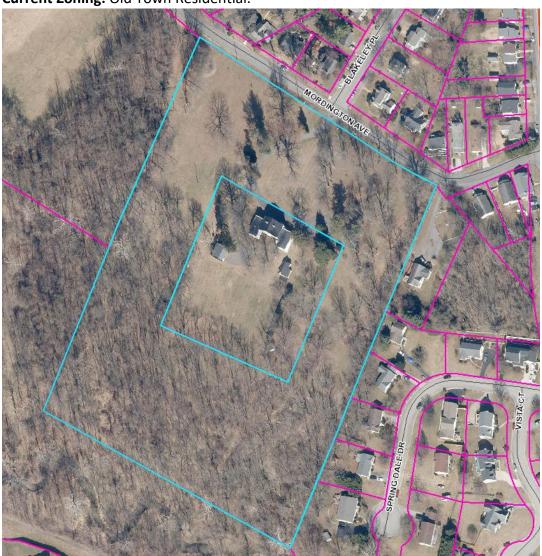
Property Owner: Parcel 3-5-6 is owned by Friends of Happy Retreat. Parcel 3-5-6.0001 is owned

by the City of Charles Town Board of Parks and Recreation Commission. **Report by**: James Newman, City Planner, Zoning/Subdivision Administrator.

Proposal: Construction of a parking lot.

Property Location: TD 3 / Map: 5 / Pcl: 6, 6.0001, located on Mordington Avenue.

Current Zoning: Old Town Residential.



PROJECT OVERVIEW

The property is 12.3 acres in size. The applicant has an existing cultural center on site, and is seeking to expand the parking lot.

CITY COUNCIL

The applicant gave a presentation to City Council on July 17, 2023. They explained the purpose of their project and provided details on grading the site, managing stormwater runoff, and landscaping. Council inquired about the safety of the stormwater ponds, cost of pervious vs. impervious surfacing material for the parking lot, and maintenance requirements.

DEFINITION

A Cultural Center is defined as:

A use providing for display, performance, or enjoyment of heritage, history, or the arts. This use allows for the combination of the uses as follows, but is not limited to: museums, art performances, corporate retreats, art galleries, historic interpretation/reenactment, cultural activities, weddings, or interpretive sites, but does not include commercially-operated businesses.

ADJACENT USES AND ZONING

Adjacent uses comprise residential units, as well as the Jefferson County Board of Education offices. All adjacent residential units are zoned Old Town Residential; the Board of Education offices are zoned Old Town Mixed Use Commercial.

ZONING REVIEW

The property is zoned Old Town Residential (OTR). It is **not** located within the Historic Overlay District.

<u>Setbacks</u>

Front: 20 feet or Front Setbacks shall vary no more than 10% from the average Setbacks of the three Adjacent Properties to each side.

Sides: 10 ft. Rear: 20 ft.

<u>Density</u>

Not applicable.

Lot coverage

Up to 70% of the lot may be developed. The applicant is developing (2.5 acres) 20% of the 12.3 acre site. The total impervious area of the parking lot is 26,400 sq. ft. (this figure does not include the entrance and exit drives, nor does it include the sidewalks).

Parking

There is no required parking for a cultural center. The applicant is proposing 70 parking spaces, including 4 handicap parking spaces.

Street Connections

There is an existing entrance onto Mordington Avenue. That existing entrance would stay as an entrance lane, and a new exit lane would be built, also connecting to Mordington Avenue. There are 7 access drive standards in the Subdivision Ordinance:

1. The horizontal alignment of Access Drives shall conform to the requirement for Streets, as stated in Section 1333.02 of this Ordinance.

This requirement can be met during the preliminary plans when additional engineering details are required. The access road must be designed in such a way as to safely intersect with Mordington Avenue.

2. The horizontal alignment of Access Drives shall be measured along the centerline. Horizontal curves shall be used at all angle changes in excess of two (2) degrees. All curves shall be tangential arcs. The minimum horizontal curve radius shall be seventy five (75) feet.

This requirement can be met during the preliminary plans when additional engineering details are required.

3. There shall be no more than two (2) entrances to the same property. Two (2) entrances to the same property must be located a minimum of 150 feet apart, measured from centerline to centerline.

This requirement is met. There will be only two access drives for the property. They are more than 150 ft. apart from each other.

4. No Access Drive shall be constructed closer than 100 feet to the nearest intersection.

This requirement is met. The new access drive is more than 100 ft. from the nearest intersection.

5. Access Drives shall not be located less than fifteen (15) feet from an adjoining property unless used as a shared Access Drive between the two abutting properties. Property owners must record an easement allowing cross access to and from the properties served by the shared Access Drive. The easement must include a joint maintenance agreement defining the responsibilities of the property owners.

This requirement is met. The new access drive is more than 15 feet from the nearest adjacent property lines.

6. Access Drives travel lanes shall have a minimum width of twenty-four (24) feet; however, sufficient design information must be submitted to indicate that the number of travel lanes and width proposed have been designed to accommodate the anticipated traffic to and from the development.

This requirements is not met. The road width is approximately 12 feet. However, the new access drive will be an exit only, while the existing access drive will be an entrance only road. The 24 ft. width requirement assumes that the drive will be used for both entrance and exit traffic. The typical roadway section sued for this type of road and described in Subdivision Ordinance appendix A calls for a road width of 10 ft per lane,

including curb and gutter. Therefore, the 12 ft. width is sufficient for the purpose of the new access road.

7. The maximum slope of embankments adjacent to Access Drives shall not exceed 1V:3H unless a retaining wall is used to ensure that the earth is stabilized.

This requirement can be met during the preliminary plans when additional engineering details are required.

Landscaping

In parking lots with over 25 spaces, there must be one tree shade tree planted per every 10 parking spaces, which the plan meet. Additionally, at least 5% of the parking to must be devoted to interior landscaping. Landscaping is not required to be shown in detail on a sketch plan. Interior landscape areas within the parking lot is currently shown as 6,580 square feet, totaling 24.9% of the overall parking lot area.

Buffers

A 6ft. tall opaque buffer is required between residential and non-residential uses. The plans show existing and proposed landscaping which will act as a buffer against lights from vehicles maneuvering within the parking lot.

Lighting

Lighting is not required to be shown on a sketch plan. Required lighting for parking lots must have acornstyle tops similar in design to what is used in the City's historic downtown.

Stormwater

Stormwater control facilities are not required to be shown on a sketch plan; they are required on a preliminary and final plan. The City's Engineering firm, Kimley-Horn, had no comments at this stage about stormwater control facilities.

COMPREHENSIVE PLAN

The 2040 Comprehensive Plan identifies this property as Public/Quasi-public land.

CONCLUSION

The application and design are generally in conformance with Code requirements. Based on the provided information the sketch plan should be **approved**.





SKETCH PLAN APPLICATION

SUBDIVISION AND LAND DEVELOPMENT ORDINANCE ARTICLE 1332, SUBDIVISION AND LAND DEVELOPMENT APPLICATION & APPROVAL REQUIREMENTS

To assist the Subdivision Administrator in the review of a Sketch Plan Application, the Applicant must utilize this form to supply the City with the information prescribed under Section 1332.03 of the Charles Town S/LD Ordinance. The submission of this form, along with the prescribed information and required fees, shall serve as the Applicant's Sketch Plan Application as required by Ordinance Section 1332.03. Applicant is responsible to ensure the standards of Ordinance Section 1332.04, Sketch Plan Requirements, are met and provided herein is a checklist of the Sketch Plan requirements.

1. DATE		June 1 , 20 <u>23</u>
2. APPLICATION TYPE*		Zoning Use Permit, Special Exception Use and Sketch Plan requirements found in the Supplemental Regulations of the Zoning Ordinance • Submit Three (3) 11" x 17" copies of the Sketch Plan shall be submitted and in Adobe PDF format
	\checkmark	 Major S/LD Development Submit Three (3) 18" x 24" copies of the Sketch Plan shall be submitted and in Adobe PDF format

*There are two types of Sketch Plan submissions:

- 1. For Zoning Use Permit, Special Exception Use and Sketch Plan requirements found in the Supplemental Regulations of the Zoning Ordinance. Submission standards are found in Section 1332.04(D).
- 2. For a Sketch Plan for a Major S/LD application, submission standards are found in Section 1332.04(E)

CITY OF CHARLES TOWN | SKETCH PLAN APPLICATION
JANUARY 2019

PAGE 1 OF 5

3.	APPLICANT'S NAME'	Stromberg / Garrigan & Associates, Inc. (Michael Stromberg)
	Address:	102 E Main Street, Suite 300, Somerset, PA 15501
	Telephone Number	(814) 443-1073 Fax Number (814) 444-0484
	Email Address	mstromberg@s-ga.com
4.	PROPERTY OWNER	S NAME_Friends of Happy Retreat, Inc. (Bill Senseney)
	Address:	P.O. Box 1427, Charles Town, WV 25414
	Telephone Number	(304) 724-7956 Fax Number ()
	Email Address	billsenseney@hotmail.com
5.	LEGAL DESCRIPTION	N OF THE SUBJECT PROPERTY (list all parcels that apply)
	Property Address: 600	0 Mordington Avenue, Charles Town, WV
	Tax Map # and Parcel	Tax Map #5, Parcel 6 (FOHR); Tax Map #5, Parcel 6.1 (CTBPRC)
	Deed Book and Page	#: DB 1158, Page 721 (FOHR); DB 1158, Page 718 (CTBPRC)
	Property Area in Squa	re Feet or Acres: 12.313 acres total (2.313 acres FOHR, 10 acres CTBPRC)
6.	DESCRIPTION OF PE	ROJECT AND PROPOSED USE(S) OF THE PROPERTY:
	The Happy Retreat facility	is a cultural heritage site and currently hosts occasional events on the property. The goal
	of this project is to create i	mproved access and a permanent parking facility for the site so it is better equipped to
	hold events on a more free	quent basis. No new building structures are proposed as a part of this project, only
	supporting infrastructure fo	or vehicles and pedestrians, plus the associated earthwork and stormwater management
	needed for the improveme	nts. The effort is led by Friends of Happy Retreat but will require approval from the
7.	Charles Town Board of Pa DESCRIPTION OF TH	rks & Recreation Commissioners (CTBPRC), which owns 10 acres of the 12.3 acre facility. HE EXISTING (OR FORMER) USE(S) OF THE PROPERTY AND
	CURRENT ZONING:	
	Current zoning is Old Town	n Residential. The site is a historic site and the former home of Charles Washington
	dating back to the 18th cer	ntury. It was used as a home by a series of other owners in the intervening years.
	other owners in the interve	ening years. It is now owned by non-profit Friends of Happy Retreat, Inc. (Parcel 6) and
	the Charles Town Board conveyance of the proper	of Park and Recreation Commisioners (Parcel 6.1) after a 2015 subdivision and ty. It is now being preserved as a cultural heritage site.
*	Applicants include: Prope	erty owner(s), Engineer(s), Surveyor(s), or Consultant(s)

8. ARE THERE ANY DETAILS.	ANTICIPATED WAIVER		,LO: 11 125,110 112	
No waivers/varian	ces are anticipated at thi	s time, however,	final parking generation	on requirements
for the future resto	ored Happy Retreat facili	ty are being revie	ewed. While this effort	is being led by
Friends of Happy	Retreat, the CT Board of	Parks & Rec wil	I have to approve action	ons on their
portions of the prop 9. HAS THE PROPE	perty. FOHR last met with C RTY BEEN THE SUBJE	TBPRC on 4/27/20 CT OF ANY COL	023 to review the plans found for the plans for the plane for the plans for the plans for the plans for the plane	or the project.
	ecify nature of all procee	edings and currer	nt status and attach an	у
documents showir	ng court decisions, etc.)			
8				
✓ No				
10. PARCEL HISTO	PRY (List all pending or led above, including prement)			
10. PARCEL HISTC parcels inventori	ed above, including pre			lication is a
10. PARCEL HISTO parcels inventori site plan amendr	ed above, including prement) Project Name and	vious site plan a	pplications if this app	lication is a
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10. PARCEL HISTO parcels inventori site plan amendr	ed above, including prement) Project Name and	vious site plan a	pplications if this app	lication is a

11. INTERESTED PARTY ADDRESSES, FOR PUBLIC NOTICE (including across street) (Interested parties are defined as adjacent properties within 100 feet).

Owner	# and Street	City, State, Zip
Charles Town Board of Parks & Rec Comm	(Evitts Run)	Charles Town, WV 25414
Board of Education	110 Mordington Avenue	Charles Town, WV 25414
Graves, Mark A & Amy E Collins Johns, Alice C	185 Mordington Avenue 187 Mordington Avenue	Charles Town, WV 25414
Glassford, David J Schottler, Robert J III & Sarah L Whitacre	144 Blakeley Place 145 Blakeley Place	Charles Town, WV 25414
Wilt, Angela L & David T Roll, Bethanny M	611 Mordington Avenue 621 Mordington Avenue	Charles Town, WV 25414
Kay, Marcella	620 Mordington Avenue	Charles Town, WV 25414
Thai Hung Viet	6602 Patrick Ct	Centreville, VA 20120
Murphy, Sean B & Candice D Obianwu, Anthony O	131 Springdale Drive 141 Springdale Drive	Charles Town, WV 25414
Solomon, Diana L Mayfield, Jennifer W & Mitchell D.	151 Springdale Drive 161 Springdale Drive	Charles Town, WV 25414

APPLICANT CERTIFICATION

I certify that, to the best of my knowledge, the submitted information and statements are true and correct. I also certify that I have received and read Section 1332.02 of the Charles Town S/LD Ordinance and relevant provisions of the Charles Town City Code.

Signature of Applicant	
Milal Stronley	Date 6/1/2023
Signature of Property Owner (If different to	than Applicant)
willed cales	Date 6/1/2023
PRESTOEWS	
FRIENDS OF	
IHARRY RETRENT	·

Please submit an original completed Application and specified number of Site Plan copies to the following:

Subdivision Administrator City of Charles Town 101 E. Washington Street Charles Town, WV 25414

	FOR C	ITY USE ONLY
Application Number:	,	Date Application Received:
Fee: \$	Paid:\$	Check No
Receipt No		
Subdivision Administrat	or Approval:	Date:
Planning Commission A	pproval:	Date:
Comments:		
-		



CHARLES TOWN, WEST VIRGINIA Department of Community Development

Division of Planning and Zoning 101 East Washington Street, P.O. Box 14 Charles Town, West Virginia 25414

File Number:	
Staff Initials:	
Fees Paid:	_

Phone: (304) 725-2311

Fax (304) 725-1014

https://goo.gl/KGzDMZ

Sketch Plan Review Checklist

	,	Ame	nded 2017	Subdivsion	Ordinance	8	
(please check one)	Z	in the Suppl	rmit, Specia emental Re	gulations of the	he Zoning		rements found
Project Nan	ne: Happy R	tetreat Parkin	g Lot & Circ	ulation Project	t		
Property Owner I	nformation						
Property Owner:	Friends of H	lappy Retreat	t, Inc.				
Mailing Address:	P.O. Box 1427						
City:	Charles Tov	vn		State:	WV	Zip Code:	25414
Phone Number:	304-724-79	56				ney@hotmail.co	om
Signature:	Walter	-Washes	13 For	PRESID.	241	Date:	6/1/2023
Applicant's Regis	tered Engin	eer or Surve	yor or Des	ign Consulta	ant		
Name:	Stromber	g / Garrigan	& Associa	ites, Inc.			
Mailing Address:	102 E Ma	ain Street, Si	uite 300				
City:	Somerse	t		State:	PA	Zip Code:	15501
Phone Number:	757-228-	1962		Email:	mstrombe	erg@s-ga.com	
Physical Property	Details						
Physical Address:	600 Mord	ington Avenu	e				
City:	Charles	Town		_ State:	WV	Zip Code:	
Tax District:				Map No:	5	Parcel No:	
Parcel Size:	12.313 total	acres		Deed Book:	1158 Page No: 718 & 721		
	Zoning of	Subject Prop	erty		Is the P	roject to Be:	Is Property In:
Urban Reserve (UR)		Medium-High (R-15)	-	borhood ercial (NC)		nned Unit oment (PUD)	Historic Overlay District (HOD)
General Commercial (GC)					No)	Floodplain Overlay District (FOD)
Old Town Mixed Use Commercial (OT-MUC)	Neighborhoo (N	d Residential R)					
City Use Only	1st Review	2nd Review	3rd Review	4th Review]		
Submittal Date							
Zoning Administrator							
City Planner							
GIS/Addressing							

Return Date

Conditions of Approval (Attach Additional Comments As Neede	ed)
Instructions	
This checklist is provided as a quick reference guide only. The Consultate regulations and fully complying with all the requirements. All references to Ordinance are cited for informational purposes only. The checklist shall be completed by the Engineer/Surveyor or Design Consultation.	to the Subdivision Ordinance and Zoning
review submission.	
Requried Submittal Information	
1 Check for Application Fees (Check to be delivered 1 Completed Application and Checklist (Signed by owner) 3 Sets of Sketch Plans and Adobe PDF Format	separately)

					Π			Review Key
		Ş	<u>`</u>	§ §	≥	≥	$\sqrt{}$	Ok
	Ordinance Requirements:		š	ě.	<u>₹</u>	4th Review	0	Incomplete
	(See instructions on page 2)	<u>2</u>	1st Review	2nd Review	3rd Review	ă	N/A	Not Applicable
		Engineer /Surveyor	\ <u>\$</u>	2	គ	₹	-	
		ᇤ					X	Unacceptable
Sub- Section	SUBDIVISION ORDINANCE Section 1332.04, Sketch Plan Requirements							
Section	THERE ARE TWO TYPES OF SKETCH PLAN							
A	SUBMISSIONS:							
	Sections in Red and Blue are depict the different types.				\vdash			
	Zoning Use Permit							
	Special Exception Use							
and D	Sketch Plan requirements found in the Supplemental Regulations of the Zoning Ordinance							
	The following information shall be provided for Sketch Plan							
	review: Three (3) 11" x 17" copies of the Sketch Plan shall be				-			
D1	submitted and in Adobe PDF format.							
D2	The Sketch Plan shall be drawn to a 1"=50" scale							
	The Sketch Plan must illustrate the following elements in such a way that the Subdivision Administrator or authorized							
D2	designee can determine if the proposed Subdivision or Land							
	Development meets the criteria of this Ordinance, as							
	applicable: Existing conditions, including boundary lines of the							
D2a	property							
D2b	A land use plan, showing the location, arrangement and							
	approximate boundaries of all proposed land uses Vicinity map, north arrow, scale (written and graphic) and			_	_			
D2c	date				_			
	Name of proposed project or other identifying title and date plan was prepared. Name and address of the							
D2d	Engineer, Surveyor, Architect, Landscape Architect, Land							
D0:	Planner or Property Owner who prepared the plan				-		-	
D2e D2f	Current zoning and total area of the property Maximum and proposed density	_		_	-	-		
D2g	Available utilities				\vdash			
D2h	All existing sanitary sewer facilities and combined sewer				\vdash			
DZII	facilities Depict location or statement of proposed water and sewer	_			-	-		
D2i	supply and other utility improvements							
D2j	Existing covenants							
	General layout of any proposed number of Lots, average Lot sizes and any proposed commercial uses, including							
D2k	any associated parking. Include proposed height of							
	structures				-	_		
D2I	Statement of total acreage of the tract being subdivided or developed							
D2m	Location of proposed Street layout, including connections							
D2n	to adjoining streets or vacant lots The location of sidewalks, trails and crosswalks				┢			
D211	Proposed open space and/or recreation areas, including	\vdash			\vdash			
D20	notes on the plan describing the proposed use, activity							
	area and/or improvement Any other information requested by the Subdivision				1			
D2p	Administrator in order for the Subdivision Administrator to							
A2 and	make an accurate determination. For a Major S/LD Application. The following information shall							
E	be provided for Sketch Plan review:							
E1	Three (3) 18" x 24" copies of the Sketch Plan shall be submitted and in Adobe PDF format.	V						
E2	The Sketch Plan shall be drawn to a 1"=50' scale	V						
	The Sketch Plan must illustrate the following elements in							
E2	such a way that the Subdivision Administrator or authorized designee can determine if the proposed Subdivision or Land							
	Development meets the criteria of this Ordinance:							
E2a	Existing conditions, including boundary lines of the	V						
	A land use plan, showing the location, arrangement and					\vdash		
E2b	approximate boundaries of all proposed land uses	✓						

				Г	Т		Review Key		
		Ş	}	}	>	<u>``</u>	1	Ok	
	Ordinance Requirements:	Ing/	1st Review	2nd Review	3rd Review	4th Review	0	Incomplete	
	(See instructions on page 2)	96	t R	1 P	Ř	ď	N/A	Not Applicable	
		Engineer /Surveyor	5	2	3r	#	x	Unacceptable	
				_				Onacceptable	
E2c	Vicinity Map, North arrow, scale (written and graphic) and date	V							
E2d	Names of the abutting owners, adjoining lot lines and structures on abutting lots within 100 feet of the property	V							
	Title of the proposed project; the date, month and year the plan was prepared or revised; the name of the								
E2e	applicant(s), owner(s), and contract owner(s) and the name and address of the Engineer, Surveyor, Architect,	V							
	Landscape Architect, or Land Planner who prepared the plan, including firm name								
E2f	Current zoning and total area of the property	V							
E2g	Maximum and proposed density based on the Net Buildable Land Area	N/A							
E2h	Available utilities	V							
E2i	All existing sanitary sewer facilities and combined sewer facilities	~							
E2j	Depict location or statement of proposed water and sewer	V							
E2k	supply and other utility improvements Existing covenants	V		-					
LZK	General layout of any proposed number of Lots, average	Ť							
E2I	Lot sizes and any proposed commercial uses, including	N/A							
	any associated parking. Include proposed height of structures								
E2m	Statement of total acreage of the tract being subdivided or	N/A							
	developed, including the Net Buildable Land Area The approximate acreage in common open space, in each			-					
E2n	use and housing type and in roads, streets or rights-of-	N/A							
	way for the total development The proposed number of dwelling units of each type in			-	_	-	-		
E20	each in the total development	N/A		_	_				
E2p	Location of proposed Street layout, including connections to adjoining streets or vacant lots	V							
E2q	The location of sidewalks, trails and crosswalks, as may be applicable	V							
	Proposed open space and/or recreation areas, including								
	notes on the plan describing the proposed use, activity area and/or improvement. The amount, approximate								
E2r	boundaries and location of common open space, with the	N/A							
	percentage of the total acreage of the site to be placed in common open space								
E2s	The location of environmental sensitive land to be	N/A					-		
	included in common open space Notes indicating any modifications, waivers, variances,	11/7	_	_		-			
E2t	special exceptions and/or conditional uses that are	V							
F0	required The leasting and extent of proposed by ffere	V							
E2u	The location and extent of proposed buffers The proposed location, arrangement, and right-of-way	\ <u>\</u>							
	widths of roads and streets, including roads and streets								
E2v	providing access to adjoining parcels. The location and arrangement of street entrances, driveways and parking	N/A							
	areas			_					
E2w	Calculations describing all proposed bonus factors with the location of and specifications for bonus improvements,	N/A							
	when proposed	14/7							
E2x	Any other information requested by the Subdivision Administrator in order for the Subdivision Administrator to	N/A							
CZX	make an accurate determination	11//							
Sub-	SUBDIVISION ORDINANCE								
Section	Section 1333.01, General Site Planning and Design Specifications								
ו ווות	There is no requirement that a Sketch Plan or Preliminary Plat								
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Memorandum

To: James Newman, AICP

City Planner, Zoning/Subdivision Administrator

City of Charles Town 101 E Washington Street Charles Town, WV 25414

From: Mark Phillips, P.E.

Date: June 12, 2023

Subject: Happy Retreat Parking Lot and Circulation Project – Sketch Plan Review – 1st Submission

This memorandum summarizes our review of the Sketch Plan for the Happy Retreat Parking Lot and Circulation Project (dated May 2023 prepared by Stromberg/Garrigan & Associates, Inc.) for the modification of the existing site to include additional parking and circulation improvements adjacent to Happy Retreat. The project site is zoned OT-R (Old Town – Residential) and the area is approximately 2.5 acres. Kimley-Horn's review did not include conformance with the CTUB and defers comment on the Water and Sanitary Sewer design to the CTUB.

Kimley-Horn's review of this application is limited to the Sketch Plan provided. Based upon our review we have the following comments:

- 1. This Application is generally in conformance with the Preliminary Plan and Plat requirements per City of Charles Town Subdivision and Land Development Ordinance dated June 23, 2012 (Rev. July 1, 2019).
- 2. Kimley-Horn notes that all Sketch Plan requirements per Section 1334.02(E) of the Subdivision and Land Development Ordinance have been met.

Kimley-Horn has no further comments.

Thank you for the opportunity to review this Preliminary Plan and Plat. In the meantime, please feel free to contact us at 703-870-3631 should you have any questions.

KIMLEY-HORN & ASSOCIATES, INC.

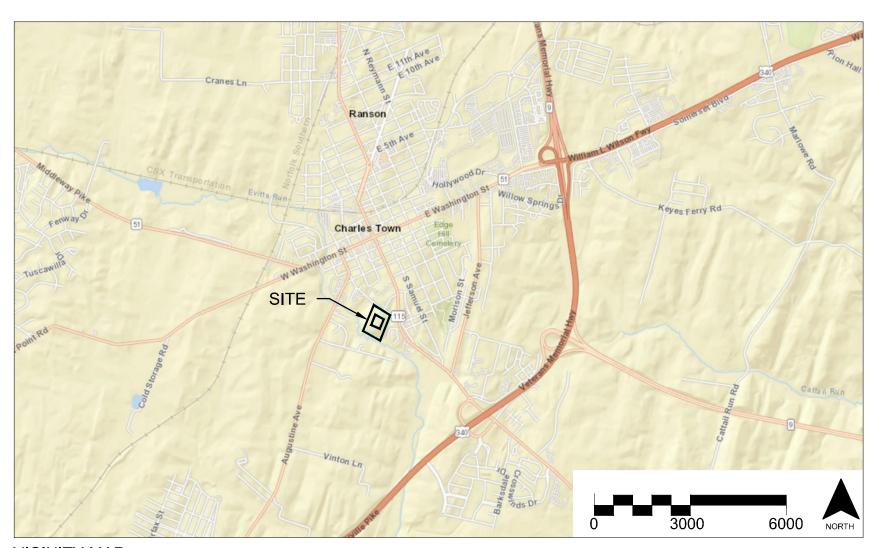
Mark Phillips, P.E.

Project Manager

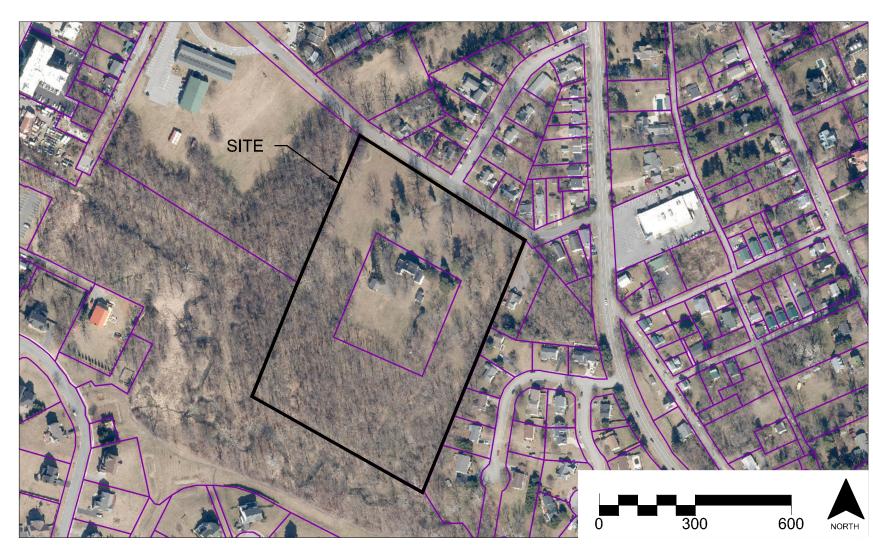
kimley-horn.com

HAPPY RETREAT PARKING LOT & CIRCULATION PROJECT

JULY 2023 600 MORDINGTON AVENUE CHARLES TOWN, WV 25414



VICINITY MAP
SCALE: 1"=3000'



SITE LOCATION (2022 AERIAL)
SCALE:1"=300'

SITE INFORMATION:

Current Zoning	OT-R Old Town Residential
Total Area of the Property	12.313 Acres
Total Acreage of the Project/Tract	2.5 Acres

APPLICANT:



OWNER:

Friends of Happy Retreat P.O. Box 1427 Charles Town, WV 25414

CONSULTANT INFORMATION:

LANDSCAPE ARCHITECT/SITE DEVELOPMENT/LAND PLANNING:



SURVEYOR:



Somerset, PA. 15501 (814) 443-1073

Stromberg/Garrigan & Associates

Stromberg/Garrigan & Associates

Suite 300

Suite 300

102 E. Main Street

102 E. Main Street

(814) 443-1073

Somerset, PA. 15501

The Thrasher Group, Inc. 600 White Oaks Blvd P.O. Box 940 Bridgeport, WV 26330 (304) 624-4108

INDEX

Sheet Number	Sheet Title
SK1-00	Cover Sheet
SK2-00	Existing Conditions
SK3-00	Site Improvement Plan
SK4-00	Planting Plan

DRAWING PREPARED BY: STROMBERG/GARRIGAN & ASSOCIATES, INC. 102E MAIN STREET, SUITE 300 SOMERSET, PA 1550

NAME: MICHAEL STROMBERG

DATE: 06/16/2023



STROMBERG/GARRIGAN & ASSOCIATES, INC

LANDSCAPE ARCHITECTURE & URBAN DESIGN
102 E. MAIN STREET, SOMERSET, PA. 15501

P. 814 443 1073 F. 814 444 0484 WWW.S-GA COM

PROJECT TITLE:

HAPPY RETREAT PARKING LOT & CIRCULATION

PROJECT ADDRESS:

600 MORDINGTON AVE CHARLES TOWN, WV 25414

OWNER:

P.O. Box 1427 Charles Town, WV 25414

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07/19/2023

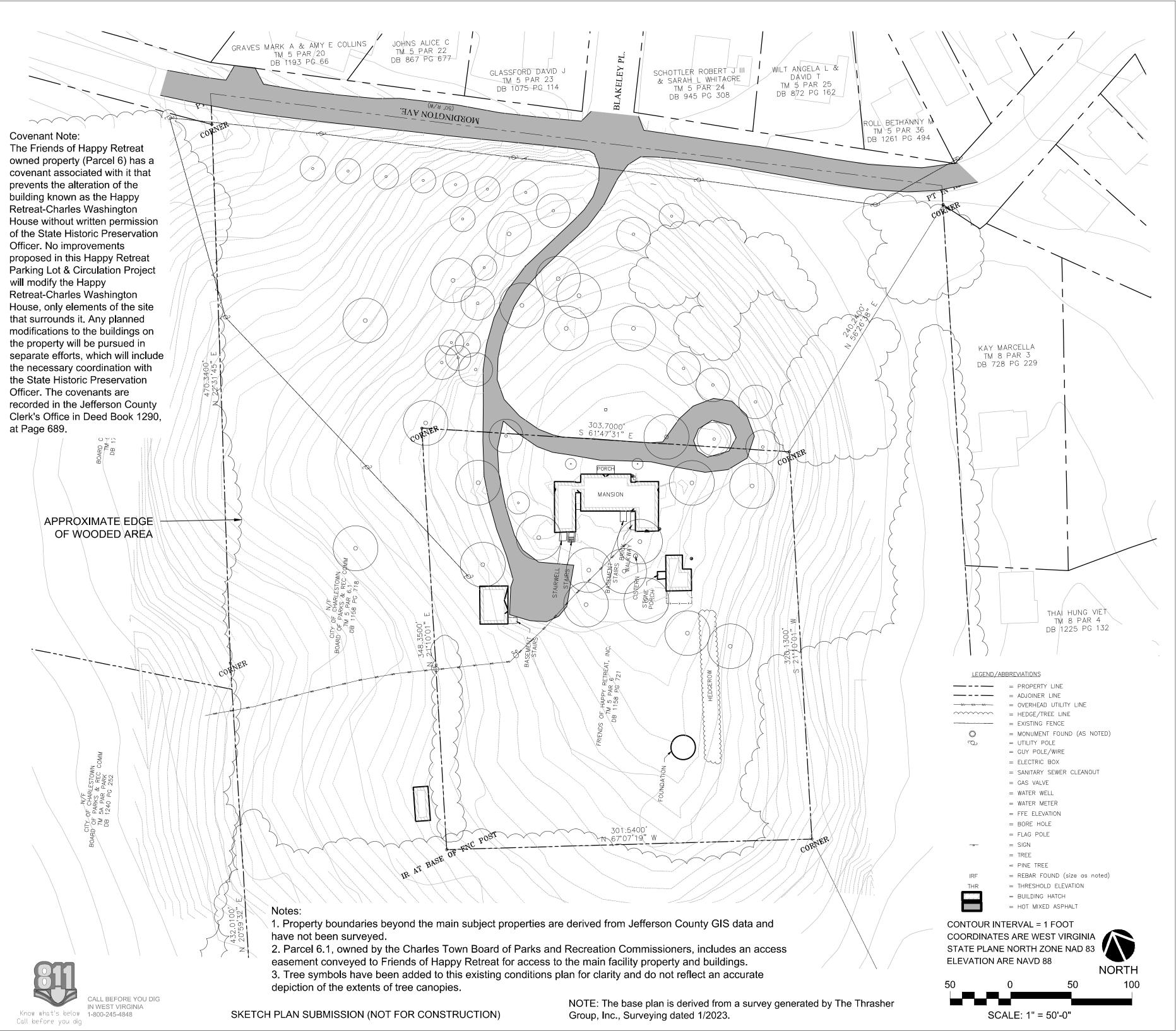
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AS SHOWN

REVISIONS:

COVER SHEET

SK1-00





STROMBERG/GARRIGAN & ASSOCIATES, INC.

LANDSCAPE ARCHITECTURE & URBAN DESIGN 102 E. MAIN STREET, SOMERSET, PA. 15501 P. 814.443.1073 F. 814.444.0484 WWW.S-GA.COM

PROJECT TITLE:

HAPPY RETREAT PARKING LOT & CIRCULATION

PROJECT ADDRESS:

600 MORDINGTON AVE CHARLES TOWN, WV 25414

OWNER:

Friends of Happy Retreat P.O. Box 1427 Charles Town, WV 25414

SURVEYOR:



PHONE (304) 624-4108 FAX (304) 624-7831

STAMP:

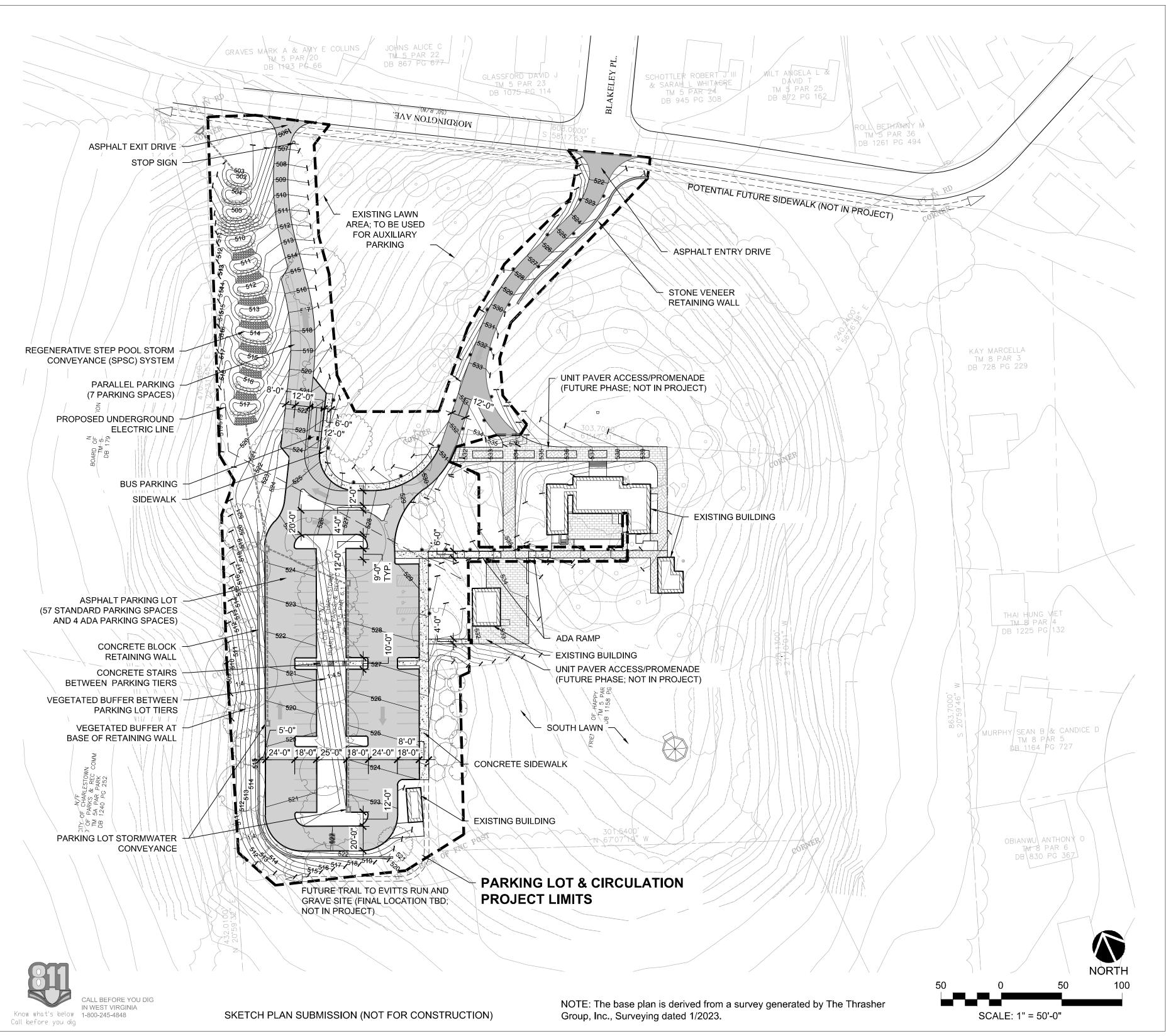
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NOTE	NOTE: DO NOT SCALE FROM DRAWINGS.					

NOTE: DO NOT SCALE FROM DRAWINGS VERIFY ALL DIMENSIONS ON SITE.

SHEET TITLE:

EXISTING CONDITIONS

SK2-00





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LANDSCAPE ARCHITECTURE & URBAN DESIGN
102 E. MAIN STREET, SOMERSET, PA. 15501
P. 814.443.1073 F. 814.444.0484 WWW.S-GA.COM

PROJECT TITLE:

HAPPY RETREAT PARKING LOT & CIRCULATION

PROJECT ADDRESS:

600 MORDINGTON AVE CHARLES TOWN, WV 25414

OWNER:

Friends of Happy Retreat P.O. Box 1427 Charles Town, WV 25414

STAMP:

REVISIONS:

NO. DATE REMARKS

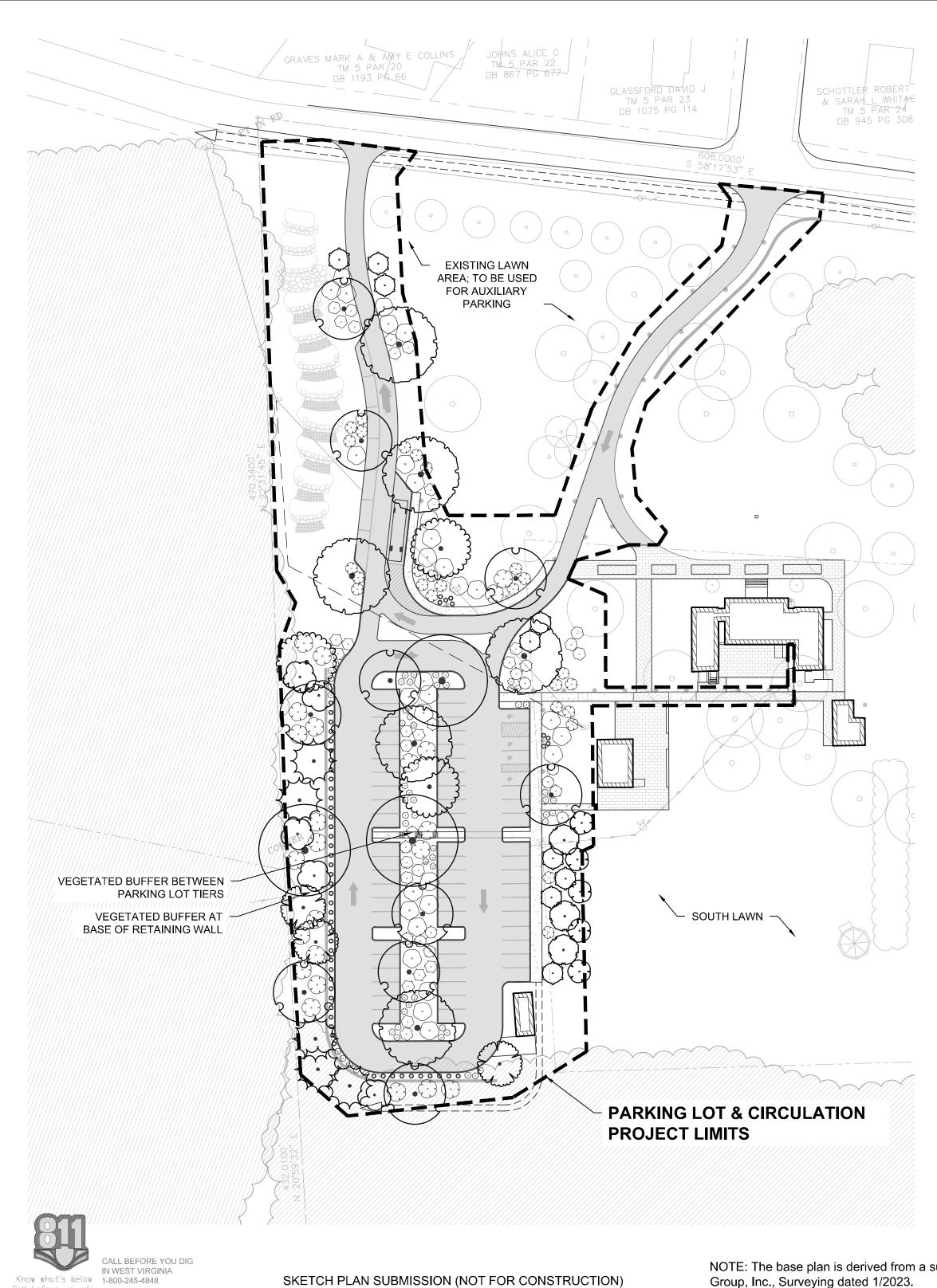
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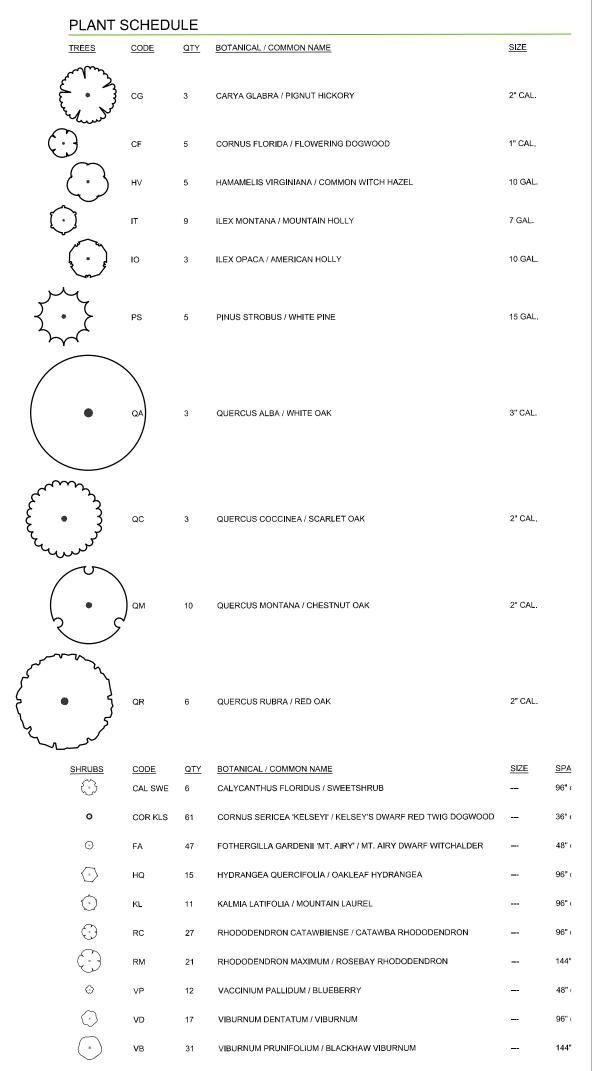
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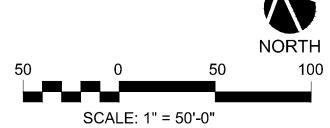
SHEET TITLE:

SITE IMPROVEMENT PLAN

SK3-00







STROMBERG/GARRIGAN & ASSOCIATES, INC.

LANDSCAPE ARCHITECTURE & URBAN DESIGN 102 E. MAIN STREET, SOMERSET, PA. 15501 P. 814.443.1073 F. 814.444.0484 WWW.S-GA.COM

PROJECT TITLE:

HAPPY RETREAT PARKING LOT & CIRCULATION

PROJECT ADDRESS:

600 MORDINGTON AVE CHARLES TOWN, WV 25414

OWNER:

Friends of Happy Retreat P.O. Box 1427 Charles Town, WV 25414

STAMP:

REVISIONS: NOTE: DO NOT SCALE FROM DRAWINGS. VERIFY ALL DIMENSIONS ON SITE.

CHECKED BY

JOB #: DATE: 07/19/2023 SCALE: AS SHOWN

SHEET TITLE:

PLANTING PLAN

SK4-00

Call before you dig