# EAST GOSHEN TOWNSHIP PLANNING COMMISSION

### Meeting Agenda Wednesday, January 4, 2023 7:00 PM

- A. Call to Order / Pledge of Allegiance and Moment of Silence
- B. Chairman will ask if anyone is going to record the meeting
- C. Review of Tracking Log / Determine need for Workshop Meeting
  - 1. Planning Commission Goals for 2023
- D. Public Comment on Non-Agenda Items
- E. Approval of Minutes
  - 1. November 2, 2022
  - 2. December 7, 2022, Meeting was canceled. (No minutes)
- F. Subdivision and Land Development Applications
  - 1. 301 Reservoir Road Residential Subdivision (Presentation)
    - a. The Township staff has received a sketch plan for residential subdivision.
    - b. The sketch plan was accepted by the Township on November 17, 2022.
    - c. The Township Staff Application Acceptance Memo is attached.
  - 2. 14 Reservoir Road Residential Subdivision Update No Action Required.
    - a. Applicant will not be attending meeting as they are currently working on review letters and a concern with the County 247 Planning Module. See attached email.
    - b. The Township Fire Marshals reviewed the subdivision plans, and the memo is attached.
    - c. The Township Municipal Authority reviewed and approved sewer connection at their November 14, 2022, meeting.
    - d. The Township Conservancy Board has reviewed the plans and requested more information.
    - e. Chester County Planning Commission is in the process of reviewing the plans.
- G. Conditional Uses and Variances
  - 1. Miller Property Residential Subdivision (Continued Until January)
    - a. The Conditional Use Hearing before the Board of Supervisors was continued until January 17, 2023, at 7pm.
- H. Ordinance Amendments
  - 1. Noise Ordinance Standards in Zoning Ordinance was approved at the Board of Supervisors meeting on November 15, 2022.
- I. Old Business
  - 1. Applebrook Golf Club Turf Maintenance Area Update No Action Required
    - a. A letter to grant a continuance of the time limit was granted until February 28, 2023. The letter was dated 12,21,2022 and is attached.
    - b. Township Engineer has reviewed a 2<sup>nd</sup> submission of the Preliminary/Final Land Development Plans provided by the applicant. The review letter and plans are attached.
    - c. A draft copy of the pipeline study is attached for your review.
    - d. A letter to grant a continuance of the 90-day time limit was granted allowing for an additional 90 days from the date of the letter. Letter was dated 10-6-2022 the new deadline date is 1-4-2022.
    - e. The Township and Applebrook continue to work on the legal issues.
  - 2. The Malvern Institute Update No Action Required
    - a. Preliminary Approval was granted by the Board of Supervisors on July 5, 2022.
    - b. The representative for Malvern Institute was contacted but did not have an update at that time.
- J. New Business
- K. Liaison Reports
- L. Correspondence
- M. Announcements

# EAST GOSHEN TOWNSHIP PLANNING COMMISSION Meeting Agenda Wednesday, January 4, 2023 7:00 PM

Bold Items indicate new information to review or discuss.

Date: January 4, 2023
East Goshen Township Planning Commission.
Report on 2022 goals and proposed 2023 goals - January 31, 2023

#### Planning Commission significant accomplishments for 2022:

- The Malvern Institute Preliminary Land Development application recommendation made to BOS
- Reviewed 14 Broad St Zoning appeal and Zoning Variance
- Reviewed and provided comment on Paoli Pike Trail Alternate Route
- Reviewed Applebrook Golf Club Land Development application
- Reviewed 1010 Hershey Mill Road Open Space Sketch Plan Conditional Use Application
- Reviewed Noise Ordinance Standards in Zoning Ordinance and provided Recommendation to BOS.

#### **Planning Commission Goals for 2022:**

- Complete review of the following pending applications:
  - o Applebrook Golf Club Maintenance Facility expansion.
  - o 1010 Hershey Mill Open Space development application.
  - 301 Reservoir Rd Subdivision and Land Development Application.
  - 14 Reservoir Rd Subdivision Application.
  - The Malvern Institute Land Development Application
- Review the Pipeline Awareness Study for:
  - 1010 Hershey Mill Drive
  - Applebrook Golf Club Maintenance Facility expansion.
- The Planning Commission has completed and submitted to the BOS a Traditional Neighborhood Development (TND) Overlay Ordinance for the Paoli Pike Corridor (Comp Plan Objective 6.2). The Planning Commission shall support implementation of this TND Ordinance when approved
- Continue the review of existing Township Zoning Ordinances for possible revision and updates.

1 2 3	<u>Dra</u> <u>EAST GOSHE</u> <u>PLANNING COMM</u>	N TOWNSHIP
4	Novembe	<u>r 2, 2022</u>
5 6	The East Goshen Township Planning Commission he	ld their regular monthly meeting on Wednesday
7	November 2, 2022 in the Township Building.	
8	Members present are highlighted:	
9	Chair – Ernest Harkness	
10	Vice Chair – John Stipe	
11	Dan Daley	
12	Edward Decker	
13	Michael Koza	
14	Mark Levy	
15	Michael Pagnanelli	
16	A1	
17 18	Also present was:	
19	Duane Brady, Zoning Officer Derek Davis, Township Manager	
20	Nathan Cline, Township Engineer	
21	David Shuey, Township Supervisor	
22	Michael Lynch, Township Supervisor	
23	John Hertzog, Township Supervisor	
24		
25	COMMON ACRONYMS:	
26	BOS – Board of Supervisors	CPTF – Comprehensive Plan Task Force
27	BC – Brandywine Conservancy	CVS – Community Visioning Session
28	CB – Conservancy Board	SWM – Storm Water Management
29	CCPC – Chester Co Planning Commission	ZHB – Zoning Hearing Board
30		
31	FORMAL MEETING – 7 p.m.	
32		pm. He led the Pledge of Allegiance and asked for
33	moment of silence to remember our troop	
34	2. Ernest asked if anyone would be recordin	
35 36	comments about non-agenda items. There	•
37	<ul><li>3. The tracking log was checked and no need</li><li>4. The minutes of the October 5, 2022 meeti</li></ul>	
38	4. The influtes of the October 3, 2022 fileeti	ing were approved as amended.
39		
40	SUBDIVISION AND LAND DEVELOPMENT AP	PPLICATIONS
41	1. 14 Reservoir Road Residential Subdivision (Preser	
42	present. He reviewed the plan to subdivide the proper	
43	October 21 <sup>st</sup> letter. Storm water management and drain	
44	might have to do a pipeline study under our new ordin	

1. 14 Reservoir Road Residential Subdivision (Presentation) – Jeff Glosson, owner of the property was present. He reviewed the plan to subdivide the property. He met with Pennoni regarding Nathan Cline's October 21<sup>st</sup> letter. Storm water management and drainage were discussed. Ernest mentioned that he might have to do a pipeline study under our new ordinance. Mr. Glosson verified that he is not with 660 feet of the pipeline so he won't have to do that study. Dan asked if he is going to sell or develop the new subdivided property. Mr. Glosson has not decided on this yet. Dan verified with Mr. Glosson that there will be an agreement about the shared driveway. Mr. Glosson commented that there is an easement for the utility lines at the rear of the property. He will show these on the next plan. Dan discussed the waterline easement. Mr. Glosson mentioned that they are on a private well for water and not connected to Aqua. Mr. Glosson will be back with a revised plan in December.

#### **CONDITIONAL USES AND VARIANCES**

1. Miller Property Residential Subdivision for 1010 Hershey Mill Road. Those present for the owner were Lou Colagreco, Attorney; Michael Hartman, Project Manager; and TR Moser, Moser Construction Management. Dan commented about the 2 flag lots for the existing historic house and the barn. They may have to do an historic impact study. Duane mentioned that he just received the historic study and he has to review it. Mr. Hartman spoke about the site walk meeting to look at possible easement for a trail. Duane pointed out the red dotted line and the black dotted line on the plan. The black line is on the Township easement. Mr. Moser commented that this easement was originally discussed for a future sewer tie in with the neighboring development. Dan mentioned the hazardous pipeline. Mr. Hartman is working with Mr. Cline. There will be no impact on it. Mr. Moser mentioned that they will have the report for the Conditional Use plan. Duane spoke about the site visit and mentioned that gas would come in from Hershey Mill Rd. Mr. Hartman described the proposed landscaping referring to the northern boundary. A detailed landscaping plan will be provided. Mr. Moser mentioned that there is a detailed written history of the property dating back to the Revolutionary war.

#### **Public Comments:**

- 1. Alison Oshop, 1334 Jackson Lane If the proposed trail is not going to be done, she requests that references to it be removed from the plan. Their cul-de-sac is private and there are young children so she is concerned about safety. If there was a trail in the future, who would maintain and control it?

  2. Natalie McMaris, 1331 Jackson Ln. She is Alison's neighbor and has a young child. She is concerned about safety. She asked that they listen to the residents and remove the proposed trail. She mentioned the Township survey about trails and only 600 people out of 18,000 responded. She suggested they take a survey of the Goshen Downs residents. Duane encouraged the residents to attend the Board of Supervisors meeting on November 15<sup>th</sup>.
- 3. Lillian Fedor, 1013 Hershey Mill Road She asked about the historic house. She wants the existing driveway removed. She mentioned that flood waters come onto her property. Mr. Moser commented that they are working to incorporate the historic property into the subdivision. Mr. Hartman mentioned that the plan for stormwater management would be to remove the bridge and allow the floodwater to go down Hershey Mill Rd.
- 4. Michael Lynch, 1226 Upton Circle With the developer removing the bridge, he feels it would improve the flood water conditions. Regarding the Open Space Survey, there are 8,000 households in the township, 600 is a good substantial response. As a property owner, he understands his neighbors' concerns. He likes connectivity of pathways and the ability to walk from one development to another. He would like to see the developer provide an easement in concert with the utility easement for use in the future. He is not suggesting that a path be planned through the stormwater basin. Be sure that the owners of the new homes know about the easement. If a fence is put up, one small space should be provided so someone could walk through if they want to. He feels the people buying the new homes will be glad to be a part of our community. He feels this should be included on the plan for the future. He is not sure why the red line is there. Current neighbors don't want the red line easement so he feels it should be removed. He has no interest in it when there is the Township easement (black line) for the basin.

He mentioned a few items in Mr. Cline's review letter:

Page 1 #2 – Houses should be separated by 30 feet.

Page 2 #4 – Roll curb. What kind of roll curb will be used? Mr. Moser commented that they haven't decided yet but Belgian block could be used.

Page 3 #6 – The Conservancy Board, Park and Recreation Commission and Historical Commission should be given the opportunity to see the property. He knows there are invasives there now but feels supplemental plantings will be good. He asked about the number of members on the historical Commission. Derek mentioned that he met with Ted Roberts. Out of the 5 positions there are only 2 active members. Duane commented that this would be part of the Land Development process. He could include the two members in the review. Dan asked about the elevation in Goshen Downs for future sewer connection. Mike explained how it could be installed and flow in Goshen Downs. Mr. Hartman explained how they are looking at connecting into the sewer on Hershey Mill Road, Mike spoke about

PC 11-2-22 draft 2

1 2 3

open space options and possible recreation areas. Duane commented that all of the boards will review the plan as part of Land Development.

Dan made the following motion: Mr. Chairman I move that we recommend that the Board of Supervisors approve the 1010 Hershey Mill Road – Miller property, Open Space Sketch Plan conditional Use Application with the following conditions:

1. Township Engineer second submission letter dated October 27,2022, all unresolved and comment items be answered to the Townships satisfaction.

2. Pipeline study be completed and provided at the hearing with the Board of Supervisors.

 3. Township Engineer second submission letter dated October 27, 2022, new comments # 23 is not recommended.

 4. Proposed trail improvements be removed from the Conditional Use plan application. Applicant to provide a trail easement on lots 6 and/or 7 for future connection to the Township property to the Goshen Downs Development.

5. The applicant shall provide a sewer easement for a future connection to Goshen Downs in a location as deemed acceptable to the Township Sewer Engineer.

John seconded the motion. The motion passed with one no vote.

#### **ORDINANCE AMENDMENTS**

1. Noise Ordinance Standards in Zoning Ordinance (Recommend/Possible approval) — Duane mentioned that this has been discussed with the Township Solicitor and Board of Supervisors. He explained that they are taking items in the ordinance regarding noise and will put them into a separate, stand alone ordinance. The review letter from the Chester County Planning Commission was provided for review. Duane listed some of the major items:

A limit on the ability to request noise waivers to four (4) per year

Making sure noise waivers are requested at least fourteen (14) days prior to the event.

Adding "toxic chemicals" as a nuisance/health hazard.

Tweaking times of day for certain noise-related activity in residential neighborhoods as well as a slight change in decimal levels.

If law enforcement comes after noise has started, they can enforce the ordinance. Ed had some concerns about the 7 pm cutoff. It is too restrictive in the summer. Mike P. noted the list of noise definitions.

Dan moved to recommend that the Board of Supervisors approve changes and accept the changes to Chapter 156 Noise and Chapter 240 Zoning. Also, that the New Chapter 156 Noise and Nuisances be approved as provided and written.

Public:

Bill Guyer, 1560 Tanglewood Dr – Mr. Guyer commented on the Chester County Planning Commission letter. He feels the decimal limits on weekends should be changed to 55 all day. An audiologist reviewed this and questioned the raising of the limit by 5. There should be a permit for the band stage.

The waiver currently gives approval with no limits.

John seconded the motion. The motion passed with one no vote.

1 2 **OLD BUSINESS** 1. Applebrook Golf Club Turf Maintenance Area – Update -No Action Required. Duane provided the 3 following update: 4 5 6 7 A letter to grant a continuance of the 90-day time limit was granted allowing for an additional 90 days from the date of the letter. The letter was dated 10/6/22 and the new deadline date is 1/4/23. The Township Staff received update plans for Applebrook on 10/5/22. These are revised Preliminary/Final Plans based on Township Engineer review letter and comments. 8 The Township and Applebrook continue to work on the legal issues. 9 2. The Malvern Institute – Update - Preliminary approval was granted by the Board of Supervisors on 10 July 5, 2022. 11 12 **NEW BUSINESS - None** 13 14 15 **LIAISON REPORTS** - None 16 17 18 **CORRESPONDENCE** - None 19 20 21 **ADJOURNMENT** 22 There being no further business, Ed Decker made a motion to adjourn the meeting. Dan Daley seconded 23 the motion. The meeting was adjourned at 9:00 pm. The next regular meeting will be held on 24 Wednesday, December 7, 2022 at 7:00 pm. 25 26 27 Respectfully submitted, 28 29 30 31 32 Ruth Kiefer, Recording Secretary 33

PC 11-2-22 draft 4

#### East Goshen Township Planning Commission Application Tracking Log

July 6, 2022 PC Meeting

Application Name	Application (CU,LD,ZO, SD, SE, C	Type (Sk, P, F)	Date Filed	Start Date	Date to Township Engineer	Date to CCPC	Date to Abutting Prop. / ABC's	Extension	PC NLT Action Date	BOS NLT Action Date	Hearing Date	Drop Dead date	Comments
Paoli Pike Trail ALT Route	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

#### **Bold = New Application or PC action required**

301 Reservoir Road	SD	Sk	11/17/2022	1117-2022	
14 Peconicir Peod	SD.	Þ	0/28/2022	012812022	10 12 20

LD

9/28/2022 9/28/2022 10-12-2022 10/19/2022 14 Reservoir Raod S 1010 Hershey Mill Road, Miller CU 8/30/2022 8/30/2022 8/2/2022

7/27/2022 7/27/2022 8/17/2022 8/29/2022

11/9/2022

1/3/2023

Applebrook Golf Club Completed in 2022

The Malvern Institute	LD	Р	6/28/2021	7/1/2021	6/30/2021	6/29/2021	8/13/2021	(5) 7/31/2022	2/2/2022	2/15/2022	NA	2/28/2022	PC Made rec to BOS for Prelim. App on June 1
14 Broad St.	V	Р	3/28/2022	3/28/2022	NA	NA	3/30/2022		5/4/2022	5/6/2022	5/19/2022	5/27/2021	P
EWT 537 Special Study	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	A
Applebrook Golf Club	LD	Р	7/27/2022	7/27/2022	8/17/2022	8/29/2022						11/9/2022	

#### Completed in 2021

Small Wireless Facilities	ZO	F	NA	NA	NA	NA	NA	NA	NA	NA	12/7/2021	NA	AD
Imperial Marble, 1311 WCP	V	Sk	10/25/2021	10/25/2021	NA	NA	10/28/2021	-	11/3/2021	11/16/2021	12/14/2021	12/24/2021	Α
14 Reservoir Rd. / Glossen	V	Sk	5/25/2021	5/25/2021	NA	NA	5/27/2021		6/2/2021	7/6/2021	7/15/2021	7/23/2021	A
ESKE Development LLC	V	S	4/20/2021	4/20/2021	4/27/2021	NA	4/27/2021		5/5/2021	5/11/2021	5/26/2021	6/18/2021	A
Albert and Lynn Greto	V	S	4/26/2021	4/26/2021	NA	NA	4/29/2021		5/5/2021	6/1/2021	6/8/2021	6/25/2021	D
1365 Enterprise Drive	V	Sk	4/1/2021	4/1/2021	NA	NA	4/1/2021		5/5/2021	5/18/2021	TBD	5/31/2021	A
198 Oneida Ln	V	Sk	1/26/2021	1/27/2021	NA	NA	1/28/2021		2/3/2021	1/162021	2/25/2021	3/26/2021	Α
eline HMS / Consultation Zone (	rZO/S	DRAFT	NA	NA	NA	NA	NA I	NA	NA	NA	NA	NA	AD

KEY

A - Approved

AD - Adopted

D - Denied

"P - Pending

### Memorandum

East Goshen Township 1580 Paoli Pike West Chester, PA 19380

Voice: 610-692-7171 Fax: 610-692-8950

E-mail: dbrady@eastgoshen.org

**Date:** 12-1-2022

**To:** Planning Commission

From: Duane J. Brady Sr., Zoning Officer

**Re:** 301 Reservoir Road Residential / Sketch Plan

#### Dear Commissioners,

The Township staff has received a Sketch Plan application for 301 Reservoir Road. The proposal is to develop the property into 5 single family residential lots. The application has been reviewed for completeness and was accepted by Township Staff on 11-17, 2022.

#### **Background Information:**

- Existing single-family residential lot on 6.8 acres with multiple structures.
- > Property may be listed on the Historic Register for the Township.
- > The proposed plan is to create 5 building lots with two lots being used for the existing house and one for the existing barn.
- > The proposal is to do a straightforward zoning by-right planning process.

#### **Zoning Information:**

- ❖ The property is in the R-2 Low Density Residential District (240-9)
- Single family detached dwellings are a use permitted by right.
- ❖ The minimum lot area is 1 acre.
- The front yard is 45 feet, the side yard is 20 feet, and the rear yard is 50 feet.
- The minimum building height is 30 feet (3 stories).
- Total impervious cover is 35%.
- ❖ Total building cover is 25%.
- The zoning also, notes that design and landscaping controls in 240-27D shall apply to residential development in this district.
- The property is just outside of the flood hazard area and has two small sections in the flood hazard area.
- The property does contain both precautionary steep slopes (15% to 25%) and prohibitive steep slopes (over 25%).



# EAST GOSHEN TOWNSHIP CHESTER COUNTY, PA

## SUBDIVISION AND / OR LAND DEVELOPMENT APPLICATION

	Date Filed:
	Application for (Circle one):
	OSubdivision ○Land Development ●Subdivision & Land Development X SKETCH PLAN SUBMISSION
Α.	Application is hereby made by the undersigned for approval of a Subdivision and or Land Development Plan, more particularly described below.
	1. Applicant's name: Equitable Owner: Planebrook Partners, LLC, Attn: Scott Risbon
	Address: 2298 Horseshoe Pike, Honey Brook, PA 19344 Phone: 610 637 1975
	Fax: Email: _scottrisbon@earthcareinc.org
	Name and address of present owner (if other than 1. above)     Name: Estate of Rudolph F. Papa (Executrix: Cindy Brillman)
	Address: 301 Reservoir Road, West Chester, PA 19380 Phone: 610 299 3060
	Fax: n/a Email: cgbrehab@aol.com
	3. Location of plan: 301 Reservoir Road, West Chester, PA
	4. Proposed name of plan: Sketch Plan for 301 Reservoir Road
	5. County Tax Parcel No.: 5304P 0129 0000 Zoning District: R-2
	6. Area of proposed plan (ac.): 6.8 +/- acres Number of lots: 5 Proposed
	7. Area of open space (ac.): n/a
	8. Type of structures to be constructed: Single-Family Dwellings
	9. What provisions are to be made for water supply and sanitary sewer? The site
	currently utilizes public water & sewer, public water & sewer are proposed
	10. Linear feet of road to be constructed: 550 lf
	11. Name of Engineer: Commonwealth Engineers, Inc., Attn: Michael Cowen, EIT
	Phone Number: 610 518 9003 Fax: n/a
	Email address: mcowen@cei-1.com

# EAST GOSHEN TOWNSHIP, CHESTER COUNTY PA SUBDIVISION AND/OR LAND DEVELOPMENT APPLICATION

12. Name of Land Planner: n/a
Phone Number: Fax:
Email address:
<ul> <li>B. I/We agree to reimburse the Township of East Goshen for such fees and expenses the Township may incur for the services of an Engineer(s) in investigations, tests, and review in relation to the Subdivision Plan.</li> <li>C. I/We agree to post financial security for the Improvements depicted on the Subdivision and or land Development Plan pursuant to the Subdivision and Land Development Ordinance.</li> <li>D. I/We agree to reimburse the Township of East Goshen for all inspection fees at the actual cost to Township.</li> </ul>
NOTICE
The Township requires an Occupancy Permit before any building can be occupied; no Occupancy Permit will be issued until final inspection and approved by the Zoning Officer and Building Inspector.
Owner Signature  Applicant Signature (Equitable Owner) Planebrook Partners, LLC Scott Risbon, Managing Partner
w V
Administrative Use
Fees received from applicant \$basic fee, plus \$per lot
For lots = \$
Application and plan received by: Date:
Application accepted as complete on:(Date)

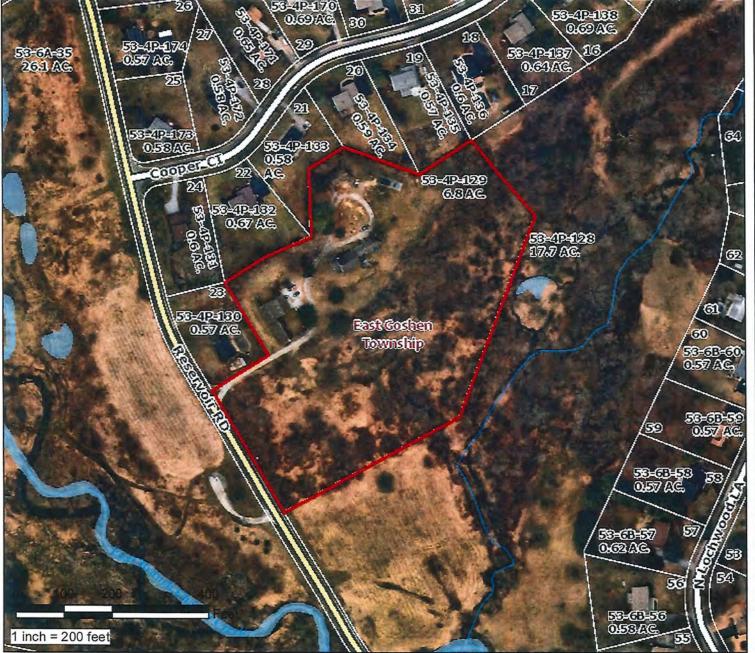
#### EAST GOSHEN TOWNSHIP, CHESTER COUNTY PA SUBDIVISION AND/OR LAND DEVELOPMENT APPLICATION

#### SUBDIVISION AND/OR LAND DEVELOPMENT CHECKLIST

This checklist outlines the steps and items needed to insure completeness of the application and to insure the application follows the process and conforms to the timeframe outlined by the State of Pennsylvania and East Goshen Township. This checklist is broken into two parts, the Application Process and the Review Process. The application process must be completed in its entirety prior to the advancement into the Review Process.

* Review the formal Planning Commission review procedure on page five.
Application for (Circle all appropriate): OSubdivisionOLand Development
Applicant Information:
Name of Applicant: Planebrook Partners, LLC, Attn: Scott Risbon
Address: 2298 Horseshoe Pike, Honey Brook, PA 19344
Telephone Number: 610 637 1975 Fax: n/a
Email Address: scottrisbon@earthcareinc.org
Property Address: 301 Reservoir Road, West Chester, PA 19380
Property Information:  Owner's Name: Estate of Rudolph F. Papa (Executrix: Cindy Brillman)
Address: 301 Reservoir Road, West Chester, PA 19380
Tax Parcel Number: 5304P 0129 0000 Zoning District: R-2 Acreage: 6.8 +/-
Description of proposed subdivision and or land Development:
Proposed subdivision into five (5) lots. One lot to contain the existing single-family
dwellling, which shall remain. One lot to contain the existing barn, which shall
remain. An additional three (3) lots each to contain a single-family dwelling.

#### Plot plan



#### COUNTY OF CHESTER

#### PENNSYLVANIA



Find Address Information

PARID: 5304 P0129 0000 UPL: 53-4P-129

Owner1: PAPA RUD OLPH F

Owner2:

Mail Address 1: 301 RESERVOIR RD Mail Address 2: WEST CHESTER PA

Mail Address 3:

ZIP Code: 19380

Deed Book: 5088

Deed Page: 873

Deed Recorded Date: 1 0/1 6/2 001 Legal Desc 1: ES OF RESERVOIR RD

Legal Desc 2: 6.8 AC DWG & BLDGS

Acres: 6.8 LUC: R-20

Lot Assessment: 46920

Property Assessment: 119280

Total Assessment: 166200

Assessment Date: 12/15/2021 7:48:09

AM

Property Address: 301 RESERVOIR RD Municipality: EAST GOSHEN School District: West Ch⇔ter Area

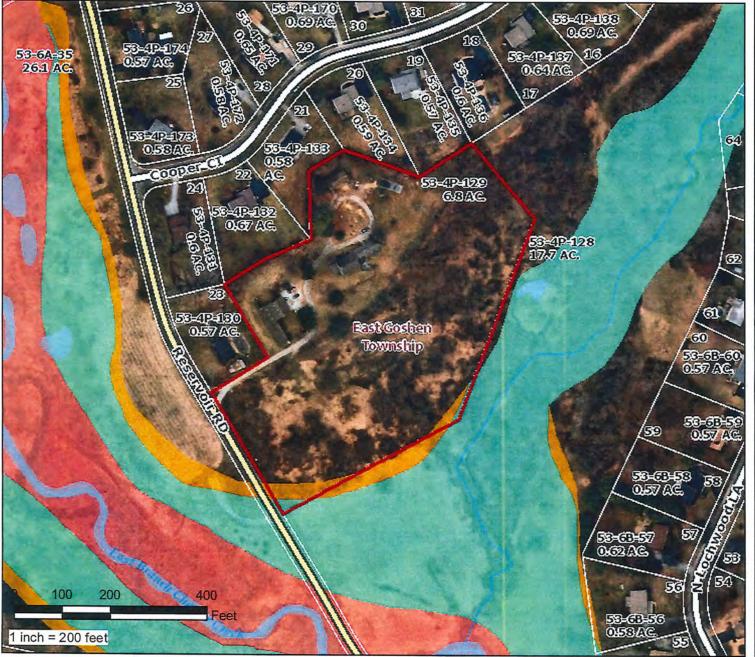
Map Created: Tuesday, November 1, 2022

County of Chester



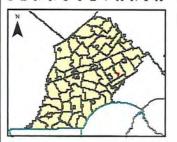
Limitations of Liability and Use:
County of Chester, Pennsylvania makes no claims to
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contained herein, and makes no representation of any
kind, including, but not limited to, the warranties of
merchantability or fitness for a particular use, nor are
any such warranties to be implied or inferred with
respect to the information or data famished herein.
For information on data sources visit the GIS
Services page listed at www.chesco.org/gis.

#### Plot plan



#### COUNTY OF CHESTER

#### PENNSYLVANIA



Find Address Information

PARD: 5304P01290000 UPL: 53-4P-129 Ownerl: PAPA RUDOLPH F

Owner2:

Mail Address 1: 30 1 RESERVOIR RD Mail Address 2: WEST CHESTER PA Mail Address 3:

ZIP Code: 19380 Deed Book: 5088

Deed Page: 873
Deed Recorded Date: 10/16/2001
Legal Desc 1: ES OF RESERVOIR RD

Legal Desc 1: ES OF RESERVOIR RD Legal Desc 2: 6.8 A C DWG & BLD GS Acres: 6.8

LUC:R-20 Lot As sessment: 46920 Property Assessment: 119280

Total Assessment: 1 66200 Assessment Date: 12/15/2021 7:48:09

AM

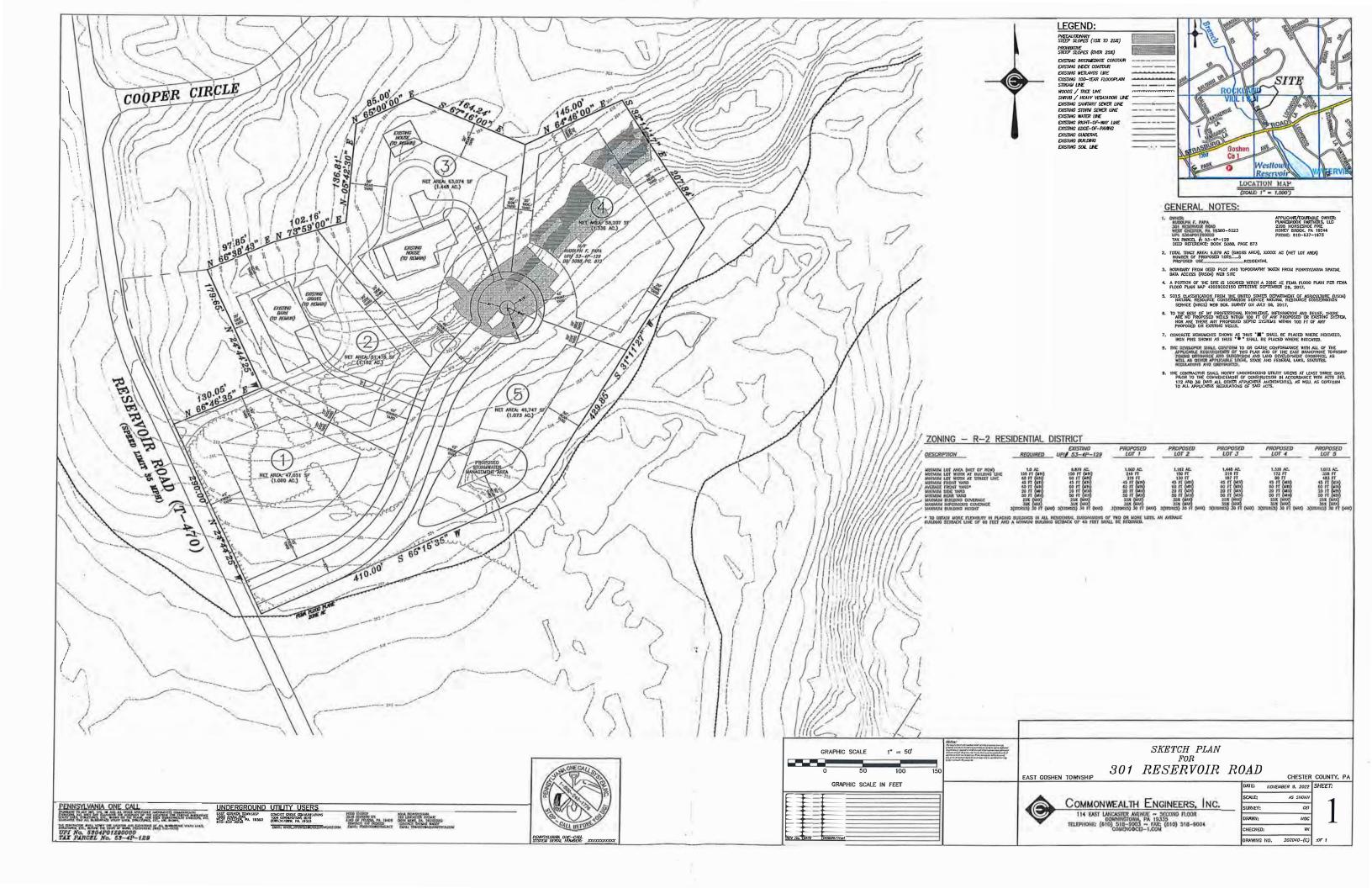
Property Address: 301 RESERVOIR RD Municipality: EAST GOSHEN School District: West Chester Area

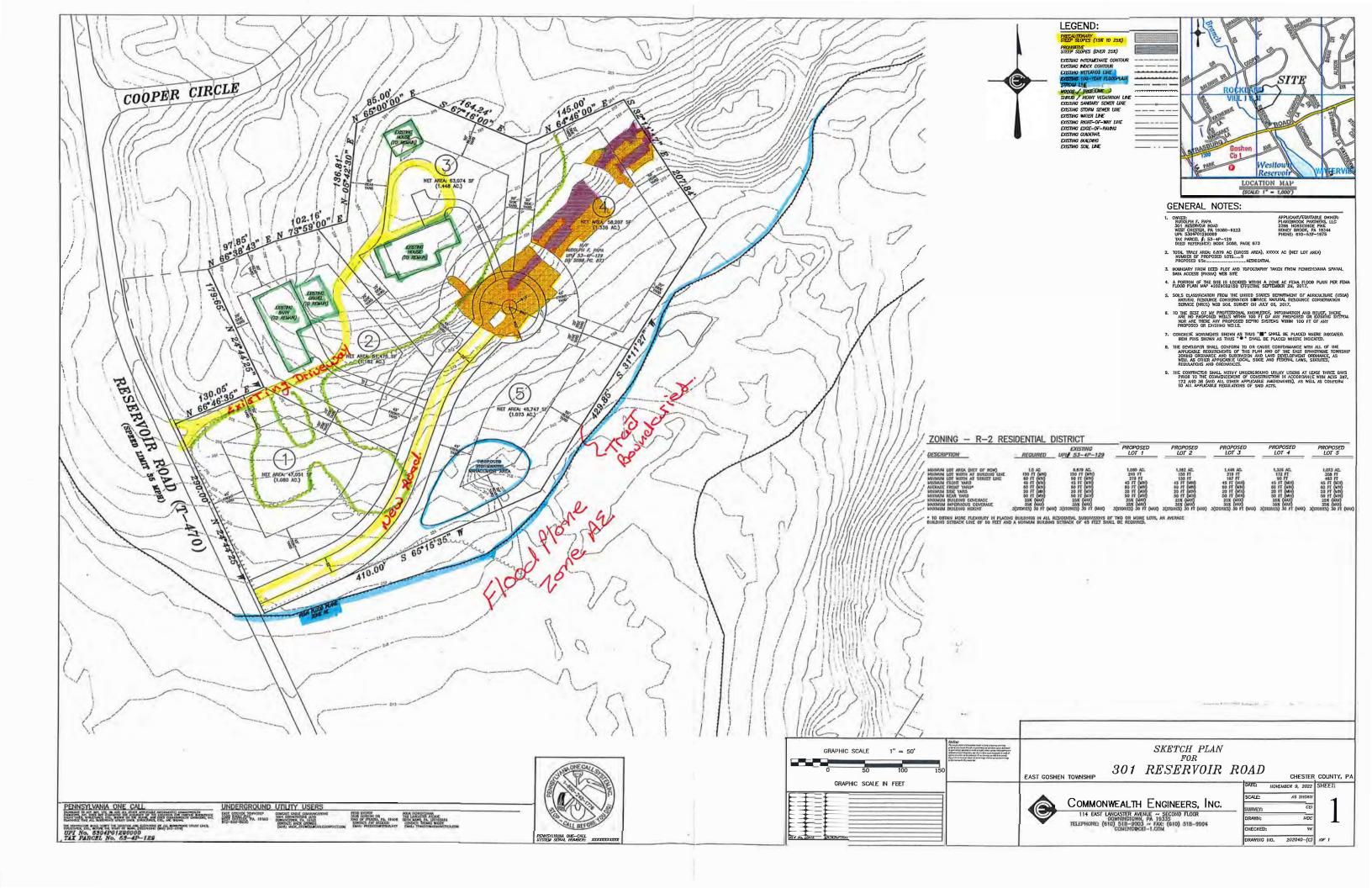
Map Created: Tuesday, November 1, 2022



County of Chester

Limitations of Liability and Use:
County of Chester, Pennsylvania makes no claims to
the completeness, accuracy, or content of any data
contained herein, and makes no representation of any
kind, including, but not limited to, the warranties of
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respect to the information or data furnished herein.
For information on data sources visit the GIS
Servicespage listed at www.chesco.org/gis.





## Memorandum

East Goshen Township 1580 Paoli Pike West Chester, PA 19380

Voice: 610-692-7171 Fax: 610-692-8950

E-mail: dbrady@eastgoshen.org

Date: 11-17-2022

To: Planning Commission

From: Duane J. Brady Sr., East Goshen Township Deputy Fire Marshal

Re: 14 Reservoir Road SD / Residential Lot

#### Dear Board Commissioner,

The Township Deputy Fire Marshal has reviewed the Subdivision Plans dated September 14, 2022, for the creation of a new single-family lot and has the following recommendations and comments:

All code information was taken from the International Fire Code 2018 Edition (IFC).

- 1. Driveway (Fire access road) shall be a minimum of 20 feet as note on plans and required pre the IFC 2018 section 503.2. Recommend keeping the driveway a minimum of 20 feet wide.
- 2. Driveway (Fire access road) surface shall be designed and maintained to support the imposed loads of fire apparatus pre IFC 2018 section 503.2.3 Surface. The concern is the stormwater basin installed under the driveway. Plan show basin #2 and #3 could be affected by the apparatus weight. Recommend having information provided from the applicant's engineer that the driveway with the basin install will carry a minimum of 75,000 pounds.
- 3. Driveway (Fire access road) shall require an approved area for apparatus turning around when the access road is more than 150 feet pre IFC 2018 section 503.2.5 Dead ends. The access road will be roughly 500 feet with an offset from front to rear. Recommend the applicant install an area for apparatus to turn around to the satisfaction of the Fire Marshal and the First Due Fire Chief.
- 4. Fire Hydrant location to new single-family dwelling is not shown on plans. The IFC 2018 pre section 507.5.1 Where required Exceptions: 1. requires a fire hydrant within 600 feet of a Group R-3 Occupancy. Recommend the fire hydrant location be placed on the plan and note the distance from the hydrant to the new single-family dwelling.
- 5. Driveway (Fire access road) will be the minimum required for apparatus. Recommend placing a note on the plan that NO PARKING is permitted in the driveway.

Thank you,

<u>Carmen Battavío</u>

Carmen Battavio
East Goshen Township
Fire Marshall

Duane J. Brady Sr. East Goshen Township Deputy Fire Marshal



MacElree Harvey, Ltd. Attorneys at Law 17 West Miner Street West Chester, PA 19382 610-436-0100 | main macelree.com

Brian L. Nagle bnagle@macelree.com d | 610-840-0224 f | 610-430-8245

December 21, 2022

#### Via Electronic Mail Only: bchristman@lambmcerlane.com

William R. Christman III, Esquire Lamb McErlane PC 24 E. Market Street, PO Box 565 West Chester, PA 19381

Re: Revised Preliminary/Final Plan

Applebrook Golf Club – Turf Maintenance Area East Goshen Township, Chester County, PA

Dear Bill,

My client hereby grants a continuance of the time limit provided for in Section 508 of the Municipalities Planning Code, within which the Board of Supervisors must act on the land development plan & application of Applebrook Associates for the Turf Management Golf Course Accessory Buildings' expansion project. The extension granted herewith is through February 28, 2023. A decision by the Board rendered by February 28, 2023 shall be timely under the forgoing Section 508.

Very truly yours,

Brian L. Nagle

/cfg cc:

Duane Brady, Director of Code Enforcement/Zoning Officer

[via Electronic Mail Only: dbrady@eastgoshen.org]

Ronald C. Nagle, Esquire [via Electronic Mail Only: magle@macelree.com]

Applebrook Associates [via Electronic Mail Only]



MacElree Harvey, Ltd. Attorneys at Law 17 West Miner Street West Chester, PA 19382 610-436-0100 | main macelree.com

Brian L. Nagle bnagle@macelree.com d | 610-840-0224 f | 610-430-8245

October 6, 2022

#### Via Electronic Mail Only: bchristman@lambmcerlane.com

William R. Christman III, Esquire Lamb McErlane PC 24 E. Market Street, PO Box 565 West Chester, PA 19381

Re: Revised Preliminary/Final Plan

Applebrook Golf Club – Turf Maintenance Area East Goshen Township, Chester County, PA

Dear Bill.

My client hereby grants a continuance of the 90 day time limit provided for in Section 508 of the Municipalities Planning Code, within which the Board of Supervisors must act on the land development plan & application of Applebrook Associates for the Turf Management Golf Course Accessory Buildings' expansion project. The extension granted herewith is for an additional 90 days from the date of this letter. A decision by the Board rendered within 90 days of the date of this letter shall be timely under the forgoing Section 508.

Very truly yours,

Brian L. Nagle

/cfg cc:

Duane Brady, Director of Code Enforcement/Zoning Officer

[via Electronic Mail Only: dbrady@eastgoshen.org]

Ronald C. Nagle, Esquire [via Electronic Mail Only: rnagle@macelree.com]
Mary Kay Gaver, Esquire [via Electronic Mail Only: mkgaver@macelree.com]



One South Church Street Second Floor West Chester, PA 19382 T: 610-429-8907 F: 610-429-8918

www.pennoni.com

October 27, 2022

EGOST 00136

Duane Brady, Zoning Officer East Goshen Township 1580 Paoli Pike West Chester, PA 19380

RE: Applebrook Golf Club Turf Maintenance Area
Preliminary/Final Land Development – 2<sup>nd</sup> Submission

Dear Duane:

As requested, we have reviewed the following information, prepared by Chester Valley Engineers, Inc., in connection with the referenced project:

- "Land Development Plans for Applebrook Golf Club Turf Maintenance Area" (15 sheets), dated July 26, 2022, last revised October 5, 2022;
- "Post-Construction Stormwater Management Report" dated July 26, 2022, last revised October 5, 2022;
- Application and supplemental information; and
- Response letter dated October 5, 2022.

The applicant, Applebrook Associates, propose to modify maintenance facility by constructing two (2) new maintenance and storage buildings, new storage bins, and associated parking and stormwater management on UPI #53-4-89.1 (93.1 acres). This parcel is owned by the Township, the existing maintenance facility is located within an access and maintenance easement; 2,614 square feet of additional easement area is proposed. Future building expansions are also indicated. The site is located directly south of the intersection of Paoli Pike (SR 2014) and Hibberd Lane, within the I-2 Planned Business, Research, and Limited Industrial District. The lot is by served by on-site water and public sanitary sewer.

The applicant has requested the following waivers:

- 1. From §205-01 To permit the submission of a combined preliminary/final plan;
- 2. From §205-37.C(7) To permit 12-inch diameter stormwater pipes;
- 3. From §205-39 Requiring a traffic study, as no new traffic will be created;
- 4. From §205-40 Requiring a water supply study, as no new water supply will be generated; and
- 5. From §205-38.10.A(1) Requiring a Historical Resources Impact Assessment.

We offer the following comments (new comments in bold/italics):

#### **ZONING**

1. For the purpose of this review, we considered the buildings as accessory uses to the golf course; however, they are on separate properties. We recommend that the Zoning Officer/Township Solicitor should review the same; note (§340-30.1(C)(1)(g)) and our additional comment below (No. 11).

#### Pending. The applicant is awaiting a determination by the Township Zoning Officer and/or Solicitor.

2. Per §240-20.B, a perimeter building setback is required due to its proximity to Paoli Pike. However, §240-20.F(1) & §240-20.F(2)(c) indicate the perimeter building setback requirement is not applicable for a planned golf course development. It is unclear if the proposed work is considered a planned golf course development and thus not required. We recommend that the Zoning Officer/Township Solicitor should review further.

#### Pending. The applicant is awaiting a determination by the Township Zoning Officer and/or Solicitor.

3. Per §240-20.F(3)(c), a front yard setback of 50 feet is required. There appear to be areas where this setback from Hibbard Lane is not met; however, it is unclear if this requirement applies to Hibberd Lane. We recommend that the Zoning Officer/Township Solicitor review further.

#### Pending. The applicant is awaiting a determination by the Township Zoning Officer and/or Solicitor.

4. New structures shall incorporate a complete visual screen for all rooftop structures (except roof-mounted solar panels), including but not limited to, heat pumps, cooling towers and other mechanical equipment. All rooftop structures (except roof-mounted solar panels) shall be screened from view by a single piece of the building structure which is aesthetically compatible in design, materials and color with the building facade, and which is at least equal in height to the highest rooftop structure. (§240-20.H(1))

#### Resolved. No mechanical equipment is being proposed on the roof tops at this time.

5. All outdoor storage facilities for fuel, raw materials and products stored outdoors shall be enclosed by a fence of a type, construction and size as shall be adequate to protect and conceal the facilities from any adjacent properties. Fencing shall not only encompass the question of safety, but also of screening, and the screening shall preferably be evergreens. All national Occupational Safety and Health Administration (OSHA) regulations shall be met (§240-24.E(2)).

## Resolved. Additional fencing has been added to the southern portion of the lot (Sheet 4). A fence detail has been added to the plans (Sheet 6).

6. Buffer yards are required to be provided as part of any new or expanded development of a principal commercial use, principal industrial use, townhouse development or apartment development along any lot line that would be contiguous to lot(s) within a residential district. Also, any outside industrial storage area visible from a lot in a residential district shall be separated by a buffer yard from such lot. (§240-27.C(2)). It is unclear if this section is applicable.

#### Pending. The applicant is awaiting a determination by the Township Zoning Officer and/or Solicitor.

7. Landscaped plant screening shall be provided in each buffer yard. This screening shall be composed of mostly evergreen shrubs and trees arranged to form both a low-level and a high-level screen (§240-27.C(3(a))). Supplemental landscaping to the existing vegetation is provided in some areas; as this site is adjacent to the Township Park, we recommend that the Conservancy Board review further.

#### Pending. The applicant is awaiting a review by the Conservancy Board.

8. All outdoor storage or truck loading areas shall be completely screened from view from any adjacent public street right-of-way and any residential district which is contiguous to or across the street from the storage or loading areas (§240-27.C(4(a))). Supplemental landscaping to the existing vegetation is

provided in some areas; as this site is adjacent to the Township Park, we recommend that the Conservancy Board review further.

Pending. The applicant has added additional landscaping to screen the buildings from Paoli Pike (Sheet 14); awaiting a review by the Conservancy Board.

9. The parking, loading, ingress and egress areas shall be provided with sufficient lighting for security purposes ((§240-27.C(7(a))). A lighting plan was not provided.

Outstanding. The applicant has noted a lighting plan will be provided in the future.

10. If the applicant is proposing restrictions, easements and/or covenants for the development, they shall be submitted to the Township for review prior to approval of the final development plans (§240-27.F). It our understanding modifications to existing documents are pending.

Pending. The applicant is awaiting a determination by the Township Zoning Officer and/or Solicitor.

11. Note maintenance buildings for storage and maintenance of equipment directly related to the golf course use may be located off site on property contiguous to the golf course, provided that there is direct access to and from the accessory buildings to the golf course over a private street or driveway serving the golf course and a subdivision plan of the off-site property is approved by the Board of Supervisors. (§340-30.1(C)(1)(g)) No further action is required, but it may be appropriate to include this as a note on the plans.

Resolved. An access note has been added to Sheet 2.

#### SUBDIVISION AND LAND DEVELOPMENT

12. Soil types should be added to the plans. (§205-27.B(10)).

Resolved. A note regarding the soil types is located on Sheet 2, General Note 8.

13. The plans shall clearly indicate the property is owned by East Goshen Township and Applebrook Golf Course has an easement for this portion of the property. (§205-33.B(33)) Further, it is unclear if the Township should be a co-applicant and/or signature blocks provided.

Pending. The applicant has noted on Sheet 1 that East Goshen Township is the owner of the property. Signature blocks will be signed and executed after a determination has been made by the Township Solicitor regarding which signature blocks are required.

14. Location and elevation of the bench mark to which contour elevations refer (§205-30.B(8)).

Resolved. The information has been added to General Note 5 on Sheet 2.

15. A certification of ownership shall be signed and notarized by the owner(s) of the property. (§205-33.B(17)).

Pending. The applicant has indicated that this will be executed at the time of the final plan.

16. The applicant shall provide the Township with either of the following as appropriate prior to recordation of the final plan: A copy of the letter from the Department of Environmental Protection approving the Act 537 planning module for the project, a copy of the letter from the Department of Environmental Protection approving the exemption from the requirement to prepare the Act 537 planning module, or a copy of the letter from the Department of Environmental Protection approving the Form B waiver for the project (§205-33.B(22)).

Pending. A request for planning exemption has been forwarded to the PADEP.

17. Such private deed restrictions and/or a statement of any restrictions previously imposed in accordance with §205-33.C(2).

Pending. The applicant is awaiting a determination by the Township Zoning Officer and/or Solicitor.

#### STORMWATER MANAGEMENT

18. The site plan includes a vehicle fueling station which is considered a stormwater hotspot, in addition to a wash station and materials storage. Please include appropriate pretreatment for the proposed infiltration BMP. (§195-15.N(2))

Resolved. The applicant has indicated inlet filters as pretreatment.

19. The disturbed area appears to be greater than one (1) acre; therefore, an NPDES permit is required. Please include the Township and our office in all correspondence and/or meetings with the Conservation District. (§195-17.A(1)(b)) As the Township owns the property, they may be required to be the applicant or co-applicant.

Pending. The applicant has acknowledged this requirement.

20. Per recent discussions with the design engineer, they indicated that the stormwater management design is being revised due to soils testing results and a pending revision to one of the buildings. We will review the stormwater management when the revised plans are submitted.

Pending. The applicant has revised the stormwater management design; see additional comments below.

#### **GENERAL**

21. The plans appear to show an easement or right-of-way from Paoli Pike along the southern portion of site. The proposed administration/maintenance/equipment storage building extends into this area.

Pending. The easement is in discussion with the Township Solicitor.

22. The plan should clarify Hibberd Lane is a private road.

Resolved. Hibberd Lane has been noted as a private road.

23. Please indicate the existing well location.

Resolved. The existing well has been located on the plans.

24. Please indicate the existing sanitary sewer connection.

Resolved. The approximate location of the existing sanitary line appears on the plans.

25. An existing septic tank is indicated; please clarify if this is to be removed.

Resolved. The object has been correctly identified as a manhole which contains the existing sanitary pump.

26. The plan is subject to Fire Marshall/Emergency Management review.

Acknowledged.

#### We off the following additional comments regarding Stormwater:

- 27. It is unclear whether the design meets the requirements of §195-19 Water quality and runoff volume. The predeveloped 2-year volume appears to be 6,670 CF (W.S. 4, p. 76) while the post-developed 2-year volume appears to be 6,932 CF (Link 9L, p. 27) The applicant should clarify the runoff volumes.
- 28. The design appears to meet the volume requirements of §195-20 Infiltration.
- 29. The infiltration BMP does not appear to have the required 2-foot separation to a limiting zone. The bottom of stone is 392.50' while the bottom of the test pit (limiting zone) appears to be 319.0'. (§195-20.J(1))
- 30. Where roof drains are designed to discharge to infiltration practices, they shall have appropriate measures to prevent clogging by unwanted debris (for example, silt, leaves and vegetation). Such measures shall include but are not limited to leaf traps, gutter guards and cleanouts. (§195-20.0)
- 31. The design appears to meet the requirements of §195-22 Stormwater peak rate control.
- 32. The applicant has requested a waiver from the requirements of §205-37.C(7) to permit 12-inch diameter stormwater pipes. (§195-25) We have no technical objection to this waiver request.
- 33. The statement and signature block required by §195-27.A(3) & (5) should be relocated from the Utility Plan to the PCSM plan to be recorded.
- 34. The predeveloped Time of Concentration (Tc) is the same as the post developed Tc. The predeveloped Tc should be greater than the post-developed. A complete delineation of the flow paths used for calculating the time of concentration for the predevelopment and postconstruction conditions shall be included on the drainage area plans. (§195-27.B(14))
- 35. The applicant has offered a blanket easement to the Township for access to the stormwater management BMP's (§195-39)

#### INTRODUCTION

This Pipeline Awareness Study has been prepared in accordance with the requirements of Section 205-40.1 of the East Goshen Township Subdivision Regulations. This report is being submitted with the Land Development application for the Turf Maintenance Area for Applebrook Golf Club and is based on the information shown on the development plans for this submission.

#### **BACKGROUND**

The Applebrook Golf Club is proposing to expand the current Turf Maintenance Facility on their easement on the Township parkland in accordance with Section 240-30.1, Planned Golf Course development of the Township Zoning Ordinance.

Currently, the site includes the maintenance and storage areas for the equipment required to maintain the adjacent golf course as well as a separate storage building that contains materials needed for the golf course maintenance. These buildings were existing on the site at the time that Applebrook Golf course obtained the use of the easement area and the Club has been working with what they had.

The Golf Club is proposing to remove a portion of the existing buildings and construct a new facility that would house new equipment maintenance and storage areas for the equipment needed to maintain the adjacent golf course. In addition, this expansion would include administrative offices and a breakroom for employees. Also, as part of the application, the existing storage building would be expanded.

A Texas Eastern Pipeline right-of-way crosses the Township Park land further south along Paoli Pike. A portion of the Applebrook Turf Maintenance area easement falls within the 660 foot distance from the centerline of the closest pipe. This report has been prepared per the requirements in Section 205-40.1.A(1).

#### SITE DESCRIPTION

The property is located on the eastern side of Paoli Pike at the intersection with Hibbard Lane. Hibbard Lane is a private road.

The site is within a Township park. The easement area is approximately 1.3 acres in size. The ground slopes from Paoli Pike down towards Hibbard Lane and ultimately the Ridley Creek, on the opposite side of Hibbard Lane from the project site. While the area of the proposed land development includes mature trees and other screening vegetation, there is little vegetation within the existing maintenance yard; the yard area is primarily buildings, paving, gravel and lawn areas. There is a privacy fence running along the Hibbard Road frontage.

As noted in the background section, the buildings currently on the site were former barns

and animal shelters from prior uses. These building are now used to store and maintain the Golf Club's maintenance equipment. There are no defined parking areas within the current maintenance yard; workers park off site. There are also no fire hydrants in the area since there is no public water. The closest hydrant is near the intersection of Hibbard Lane and Grist Mill Lane, approximately 950 feet away from the site.

The uses surrounding the property include the Township park on the eastern and southern sides, the Chester County Chamber of Business and Industry building to the west and single-family residential properties across Paoli Pike to the north.

#### PIPELINE INFORMATION

The easement is approximately 65 feet in width. According to Texas Eastern representatives:

- There are two pipes in the easement.
- Each pipe is 20" in diameter.
- The pipelines transport natural gas.

#### ASSESSMENT OF POTENTIAL IMPACTS

The area of the proposed land development is presently used as the maintenance area for the Golf Club, so the proposed project is not introducing any new uses to the site. In addition, there will not be a significant number of employees on the site for the majority of the day. The employees will meet at the Maintenance area, pick up their equipment and then leave to perform maintenance operations on the golf course. On a regular basis, there may only be three or four employees at the facility during the day. At the end of the day, the employees return the equipment to the maintenance area and leave the property. There are no employees at the site overnight.

The buildings will be used to store equipment and materials necessary for the maintenance of the golf course.

#### **MITIGATION MEASURES**

Due to the small area involved with the current proposal and the limited number of employees that will be at the facility on a regular basis during the day, mitigation measures involving the building construction are not necessary for this application.

The Club will prepare an Evacuation Plan which will be shared with all employees of the Turf Management facility.



83 Chestnut Road P.O. Box 447 Paoli, PA 19301 610-644-4623 610-889-3143 Fax www.chesterv.com

October 5, 2022

Duane Brady, Zoning Officer East Goshen Township 1580 Paoli Pike West Chester, PA. 19380

Re: Revised Preliminary/Final Plan

Applebrook Golf Club – Turf Maintenance Area East Goshen Township, Chester County, PA CVE Project No. 20558-0015

Dear Mr. Brady,

We have received the review letter from Pennoni Associates, Township Engineer, dated September 1, 2022. Based on the comments contained in this review letter, we have made the following revisions to the plans. Comments are shown in italicized text and the responses are shown in bold text.

#### ZONING

1. For the purpose of the review, we considered the buildings as accessory uses to the golf course; however, on separate properties. We recommend that the Zoning Officer/Township Solicitor should review the same; note (§340-30.1©(1)(g)) and our additional comment below (No. 11).

No revisions pending a determination from the Township Zoning Officer and/or Solicitor.

2. Per §240-20.B, a perimeter building setback is required due to its proximity to Paoli Pike. However, §240-20.F(1) & §240-20.F(2)© indicate a perimeter building setback requirements is not applicable for a planned golf course development. It is unclear if the proposed work is considered a planned golf course development and thus not required. We recommend that the Zoning Officer/Township Solicitor should review further.

No revisions pending a determination from the Township Zoning Officer and/or Solicitor.

3. Per §240-20.F(3)(c), a front yard setback of 50 feet is required. There appear to be areas where this setback from Hibbard Lane is not met; however, it is unclear if this requirement applies to Hibberd Lane. We recommend that the Zoning Officer/Township Solicitor review further.

No revisions pending a determination from the Township Zoning Officer and/or Solicitor.

4. New structures shall incorporate a complete visual screen for all rooftop structures (except roof mounted solar panels), including but not limited to, heat pumps, cooling towers and other mechanical equipment. All rooftop structures (except roof-mounted solar panels) shall be screened from view by a single piece of the building structure which is aesthetically compatible



Duane Brady, Zoning Officer East Goshen Township October 5, 2022 CVE Project No. 20558-0015 Page 2 of 5

in design, materials and color with the building facade, and which is at least equal in height to the highest rooftop structure. (§240-20.H(1))

No mechanical equipment is planned for the roof tops at this time.

5. All outdoor storage facilities for fuel, raw materials and products stored outdoors shall be enclosed by a fence of a type, construction and size as shall be adequate to protect and conceal the facilities from any adjacent properties. Fencing shall not only encompass the question of safety, but also of screening, and the screening shall preferably be evergreens. All national Occupational Safety and Health Administration (OSHA) regulations shall be met (§240-24.E(2)).

A screening fence exists around a portion of the site. This fence will be extended to screen the entire yard area that will not be screened by the buildings. A detail of the fence has been added to the plans.

6. Buffer yards are required to be provided as part of any new or expanded development of a principal commercial use, principal industrial use, townhouse development or apartment development along any lot line that would be contiguous to lot(s) within a residential district. Also, any outside industrial storage area visible from a lot in a residential district shall be separated by a buffer yard from such lot. (§240-27.C(2)). It is unclear if this section is applicable.

No revisions pending a determination from the Township Zoning Officer.

7. Landscaped plant screening shall be provided in each buffer yard. This screening shall be composed of mostly evergreen shrubs and trees arranged to form both a low-level and a high-level screen (§24027.C(3(a))). Supplemental landscaping to the existing vegetation is provided in some areas; as this site is adjacent to the Township Park, we recommend that the Conservancy Board review further.

No revisions pending Conservancy Board review.

8. All outdoor storage or truck loading areas shall be completely screened from view from any adjacent public street right-of-way and any residential district which is contiguous to or across the street from the storage or loading areas (§240-27.C(4(a))). Supplemental landscaping to the existing vegetation is provided in some areas; as this site is adjacent to the Township Park, we recommend that the Conservancy Board review further.

The only residential properties adjacent to the development or across Paoil Pike. Buffering has been proposed along the Paoli Pike frontage. In addition, the design of the maintenance area has the buildings screening the outdoor activities within the yard.

9. The parking, loading, ingress and egress areas shall be provided with sufficient lighting for security purposes ((§240-27.C(7(a))). A lighting plan was not provided.

A Lighting Plan will be provided in the future.



Duane Brady, Zoning Officer East Goshen Township October 5, 2022 CVE Project No. 20558-0015 Page 3 of 5

10. If the applicant is proposing restrictions, easements and/or covenants for the development, they shall be submitted to the Township for review prior to approval of the final development plans (§240-27.F). It our understanding modifications to existing documents are pending.

No revisions pending a determination from the Township Solicitor.

11. Note maintenance buildings for storage and maintenance of equipment directly related to the golf course use may be located off site on property contiguous to the golf course, provided that there is direct access to and from the accessory buildings to the golf course over a private street or driveway serving the golf course and a subdivision plan of the off-site property is approved by the Board of Supervisors. (§340-30.1(C)(1)(g)) No further action is required, but it may be appropriate to include this as a note on the plans.

A note has been added to Sheet 2.

#### SUBDIVISION AND LAND DEVELOPMENT

12. Soil types should be added to the plans. (§205-27.B(10)).

Please see Note #8 on Sheet 2.

13. The plans shall clearly indicate the property is owned by East Goshen Township and Applebrook Golf Course has an easement for this portion of the property. (§205-33.B(33)) Further, it is unclear if the Township should be a co-applicant and/or signature blocks provided.

East Goshen Township has been noted as the property owner on Sheet 1. The appropriate signature blocks will be signed and executed once a determination has been made by the Township Solicitor regarding which signature blocks are required.

14. Location and elevation of the bench mark to which contour elevations refer (§205-30.B(8)).

Please see Note #5 on Sheet 2.

15. A certification of ownership shall be signed and notarized by the owner(s) of the property. (§205-33.B(17)).

This will be executed at the time of final plan approval (see comment #13 above).

16. The applicant shall provide the Township with either of the following as appropriate prior to recordation of the final plan: A copy of the letter from the Department of Environmental Protection approving the Act 537 planning module for the project, a copy of the letter from the Department of Environmental Protection approving the exemption from the requirement to prepare the Act 537 planning module, or a copy of the letter from the Department of Environmental Protection approving the Form B waiver for the project (§205-33.B(22)).

A request for Planning exemption has been forwarded to PADEP. The final determination of DEP will be forwarded to the Township.



Duane Brady, Zoning Officer East Goshen Township October 5, 2022 CVE Project No. 20558-0015 Page 4 of 5

17. Such private deed restrictions and/or a statement of any restrictions previously imposed in accordance with §205-33.C(2).

No revisions pending a determination from the Township Solicitor.

#### STORMWATER MANAGEMENT

18. The site plan includes a vehicle fueling station which is considered a stormwater hotspot, in addition to a wash station and materials storage. Please include appropriate pretreatment for the proposed infiltration BMP. (§195-15.N(2)).

Inlet filters have been added to the revised plans.

19. The disturbed area appears to be greater than one (1) acre; therefore, an NPDES permit is required. Please include the Township and our office in all correspondence and/or meetings with the Conservation District. (§195-17.A(1)(b)) As the Township owns the property, they may be required to be the applicant or co-applicant.

Acknowledged. An NPDES Permit will be submitted to the Chester County Conservation District as required. We will copy the Township on all correspondence.

20. Per recent discussions with the design engineer, they indicated that the stormwater management design is being revised due to soils testing results and a pending revision to one of the buildings. We will review the stormwater management when the revised plans are submitted.

No action

#### **GENERAL**

21. The plans appear to an easement or right-of-way from Paoli Pike along the southern portion of site. The proposed administration/maintenance/equipment storage building extends into this area.

The legal issues associated with this easement are being reviewed with the Club's attorney and the Township Solicitor. The easement followed the former driveway into the site; the physical driveway has since been removed. The need for the easement no longer exists, so we may be able to extinguish it.

22. The plan should clarify Hibberd Lane is a private road.

Hibberd Lane has been noted to be a private road.

23. Please indicate the existing well location.



Duane Brady, Zoning Officer East Goshen Township October 5, 2022 CVE Project No. 20558-0015 Page 5 of 5

The existing well has been added to the plans.

24. Please indicate the existing sanitary sewer connection.

The approximate location of the existing sewer line has been added to the plans.

25. An existing septic tank is indicated; please clarify if this is to be removed.

The text identifying the existing manhole as a septic tank has been removed. The manhole contains the existing grinder pump; there is no septic tank

26. The plan is subject to Fire Marshall/Emergency Management review.

No action pending Fire Marshal review.

These revisions should address the concerns raised by the Township Engineer in his review letter. We are also in the process of preparing a Pipeline Awareness Study as required and noted by the Planning Commission at our last meeting. This report will be submitted at a future date.

Enclosed are 10 sets of the revised plans, 10 copie sof the revised Landscape Plan and 3 copies of the revised Stormwater Management Report. A link to electronic copies of the enclosed information will be provided in a separate email. Please let me know if you have any questions or need additional information.

Very truly yours.

Chester Valley Engineers, Inc.

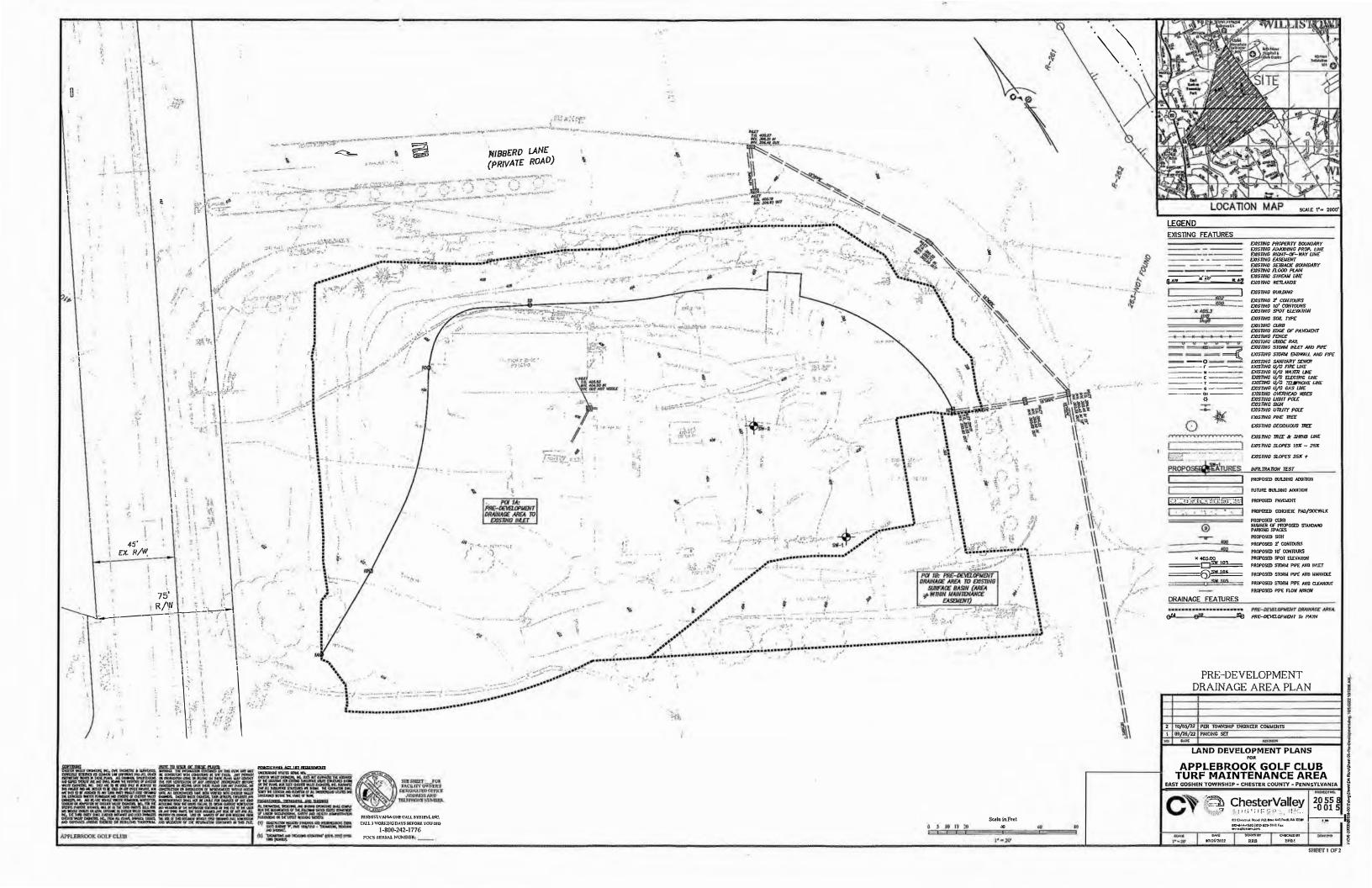
Brett H. MacKay, RLA, AICP, LEED-AP

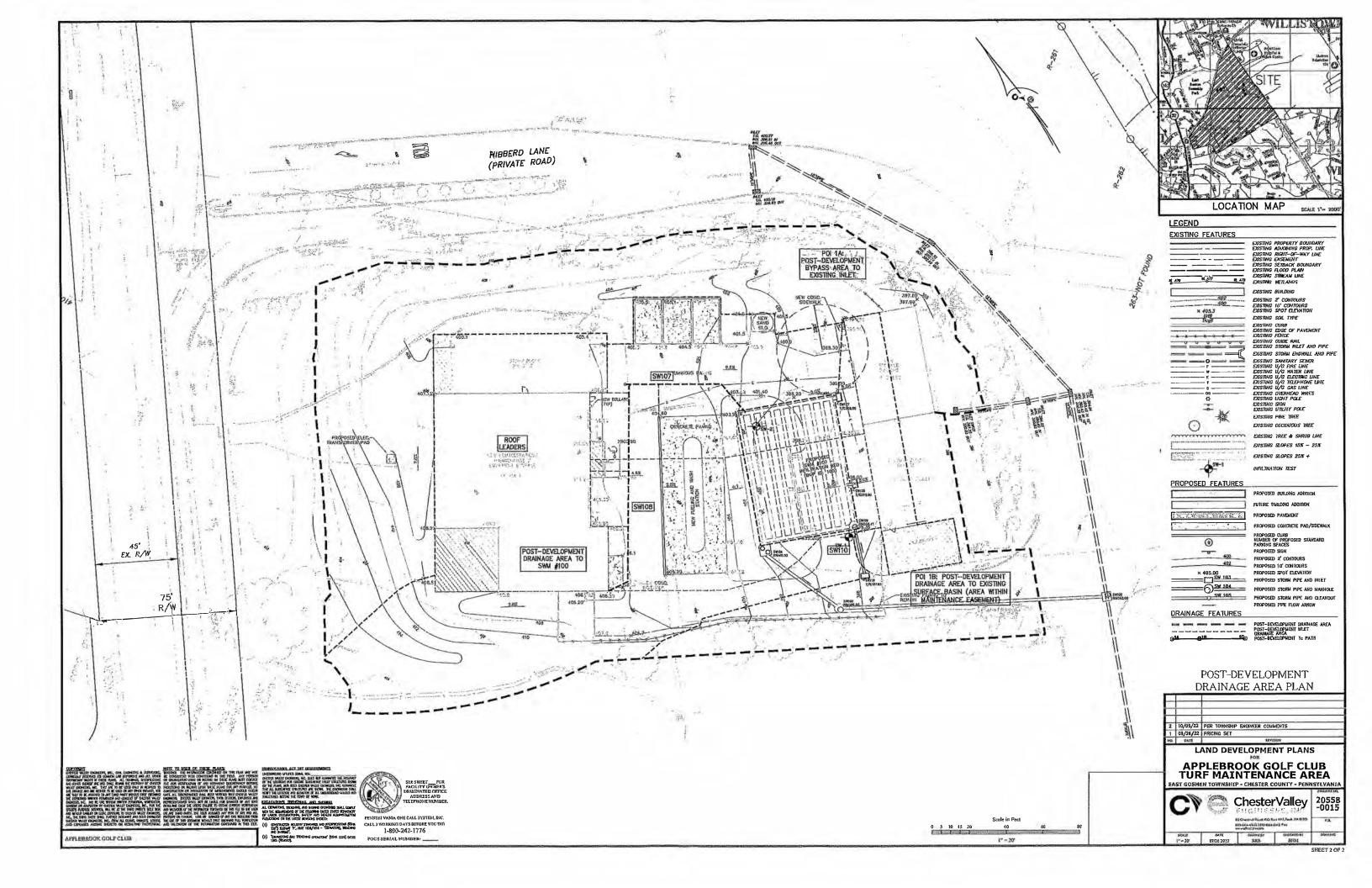
Senior Associate

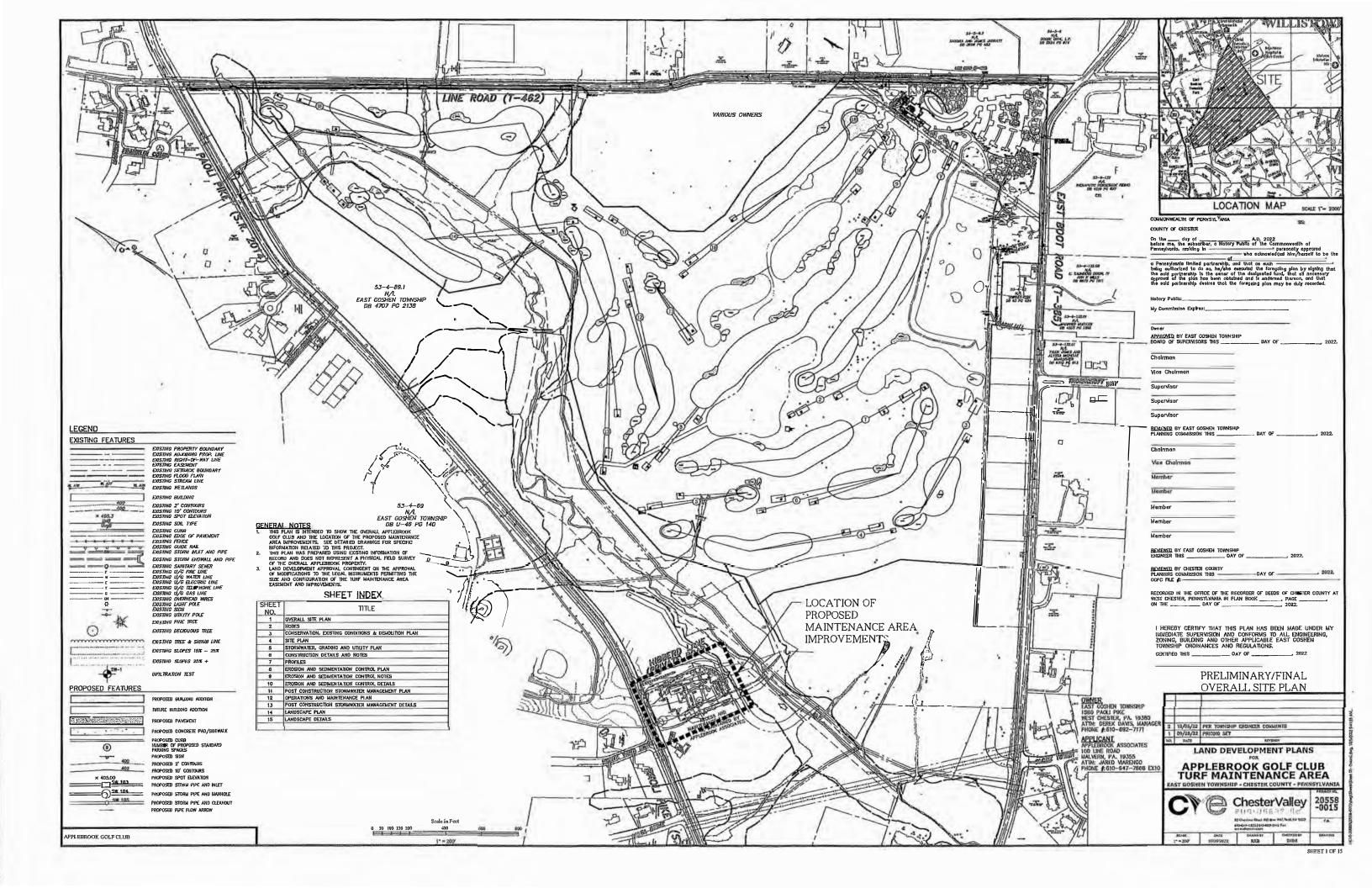
cc: Nate Kline, P.E., Pennoni Associates

Jared Viarengo, Applebrook

Brian Nagel, Esq.







#### UTILITY NOTES

- 1. All atorm sewer construction shall be in occordance with PennDDT Specifications, Form 408, as last ravised, and with the ourrant PonnDDT Roadway Construction (RC) Standards.
- 2. All roodway materials must be obtained from a PennDOT approved source.
- All storm sewers are measured centerline to canterline of the storm sewer structures.
- All RCP pipe shall be Class it reinforced coment concrete pipe in accordance with PennbOT specifications, Form 408, Section 601.
- All storm sewer inlets shall be precest and built in accordance with current Penn DDT RC standards, 10. All Inlet boxes shall be "standard" PennDDT inlet boxes unless otherwise noted.
- 5. All PVC storm pipe shall be SDR 35 and most the requirements of ASTM D3034 Specifications. Installation shall be in accordance with the
- Ali High Density Polyeihylana (HDPE) pipe shall be corrugated exterior / smooth interior pips conforming to ASIM F-405.
- All Iniets shall be equipped with PennOOT Structural Steel, Bloycle Safe Grotes in conformance with the lutest PennOOT standards (Form 408).
- 9. All storm pipes shall be installed into the structure face of an junction structure with the walls of the pipe material clearing the walls of the structure. No connection of pipes through the comer of a structure shall be permitted unless the structure is specifically designed for such penetration.
- 10. Expanded abunctures (in place of standard abunctures) shall be provided where specified or in situations where the connecting pipe diameter does not allow for the use of a standard box.
- 11. Provide monhols steps in all drainage structures where the height exceeds feet. Steps shall conform to Penabo? standards, Form 408, latest edition.
- 12. All underground stormwater control structures shall be installed in accordance with the product manufactures's standard specifications and datalis. The controlour shall become familiar with these specifications and datalis whether holded in the plan set or not.
- Provide water quality (of and grit) filters on all lalets that discharge surface runoff into an underground stommater BMP.

- UST OF WAIVERS

  WAVERS RECOESTED FROM GROHANCE NO. 205, THE EAST GOSHEN
  TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT GROWNAGE.

  1. 205-31 PREJIMINARY AND FIRML SUBJESSION TO PERMIT THE
  SUBJESSION OF A COLUMNED PREJIMINARY / FIRML PI AN.

  2. 205-37-7.C STOWN SEWER SISTENT TO PERMIT 12\* DIAMETER
  STUDUMATIEN FIPES.

  3. STUDUMATIEN FIPES.
  3. STUDUMATIEN FIPES.
  3. AND NO HEY SEMPLOY STUDY AS THERE APE NO NEW MEMBERS
  AND NO HEY SEMPLOYES ANTICOPALE FROM THE PROPOSED BUILDING WILL HAVE
  WILL BE NO ADDITIONAL TRAFFIC TO THE GOLF CLUB.
  4. 205-40 WATER SUPPLY STUDY THE PROPOSED BUILDING WILL HAVE
  REPLACEMENT BATHROOM FROMINES TO BE USED BY EMPLOYEES
  USING THE MAINTHANCE FACILITY. HERE WILL BE NO INGREASE IN
  THE NUMBER OF EMPLOYEES.
  240-33 LO.A.T HISTORICAL RESOURCE IMPACT STUDY WANYER
  FROM THE REQUIRABENT TO PREPARE AND SUBJETT AN HISTORICAL.
  RESOURCES IMPACT ASSESSION! (WAVER BY THE BOARD OF
  SUPERWISCRS IS PERMITTED BY THIS SECTION).

ACCESS NOTE

PER SECTION 240 "DOLC(1)(g) — MAINTENANCE BUILDINGS FOR STORAGE
AND MAINTENANCE OF EQUIPMENT DIRECTLY RELATED TO THE COLF COURSE.

USE MAY BE LOCATED OFF SHE ON PROPERTY CONTIQUIONS TO THE COLF
COLNESS, PROVIDED THAT THERE IS DIRECT, ACCESS TO AND FROM THE
ACCESSORY BUILDINGS TO THE COLF COURSE OVER A PRIVATE STREET OR
DRIVEWAY SERVING THE COLF COURSE AND A SUDDIVISION PLAN OF THE
OFF-SHE PROPERTY IS APPROVED BY THE BOARD OF SUPERVISIONS.

THE TURF MAINTENANCE AREA PRESENTLY HAS A PHYSICAL CONNECTION TO THE GOLF COURSE ACROSS MEBARD LANE.

- CENERAL NOTES

  1. THIS PROJECT PROPOSES TO INSTALL A NEW TURF MAINTENANCE BUILDING AND RELATED STE MEPROVED BYTS, REPLACINE PROMOE THE GROUNDS HARDING THE EMISTING FACULTS OF THE PROPERTY OF THE THEORY OF THE FACULTY MILL REPLACE THOM THE PROPERTY BEING THE PACE AND THE REPLACE THAT THE PROPERTY BEING THE PACE AND THE FACULTY MILL REPLACE THOM THE PROPERTY BEING THE PACE AND THE TOWNS OF PROPERTY.

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#### PRELIMINARY/FINAL NOTES



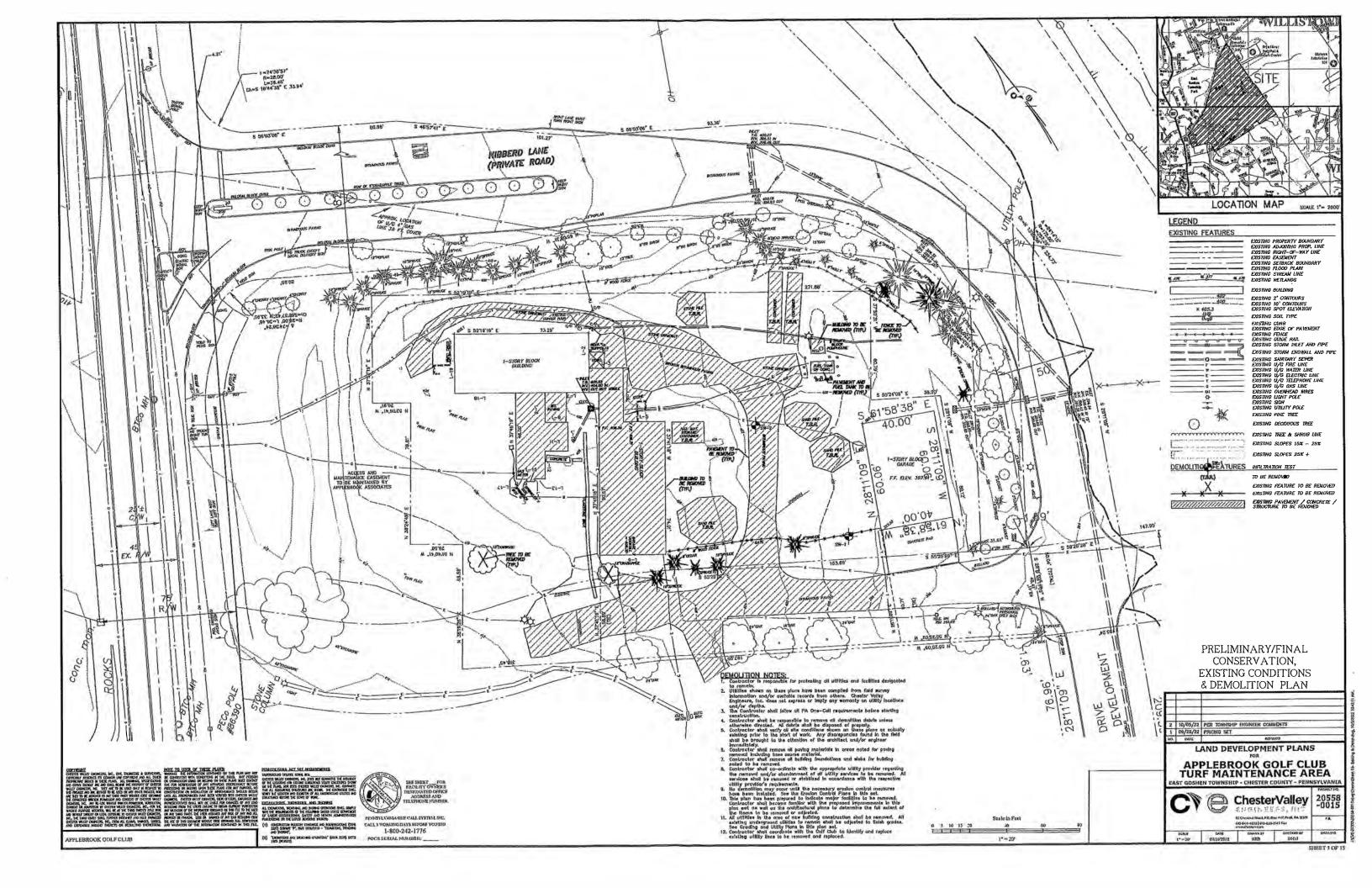
APPLEBROOK GOLF CLUB TURF MAINTENANCE AREA EAST GOSHEN TOWNSHIP - CHE STER COUNTY - PENNSYLVAN

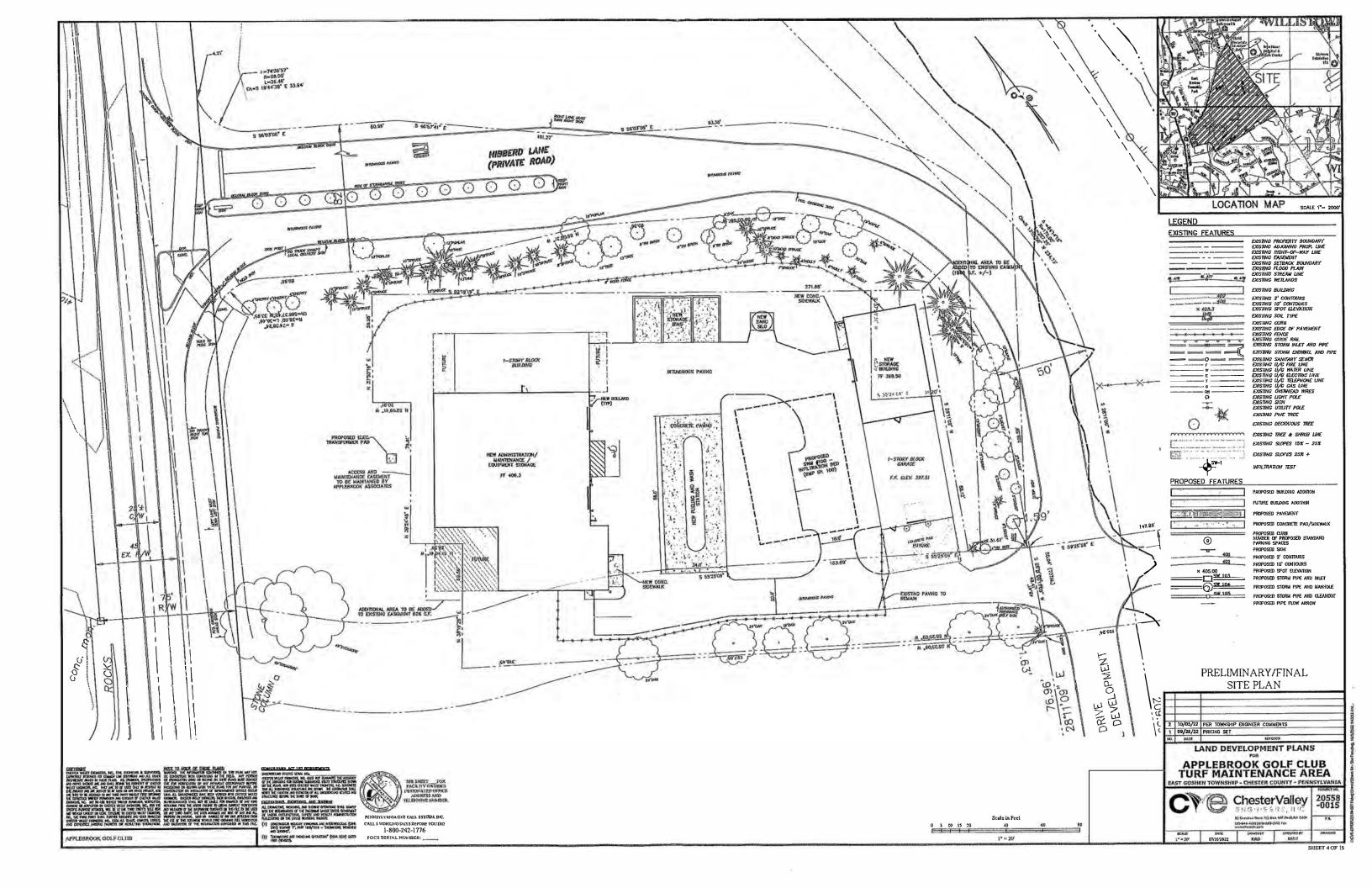


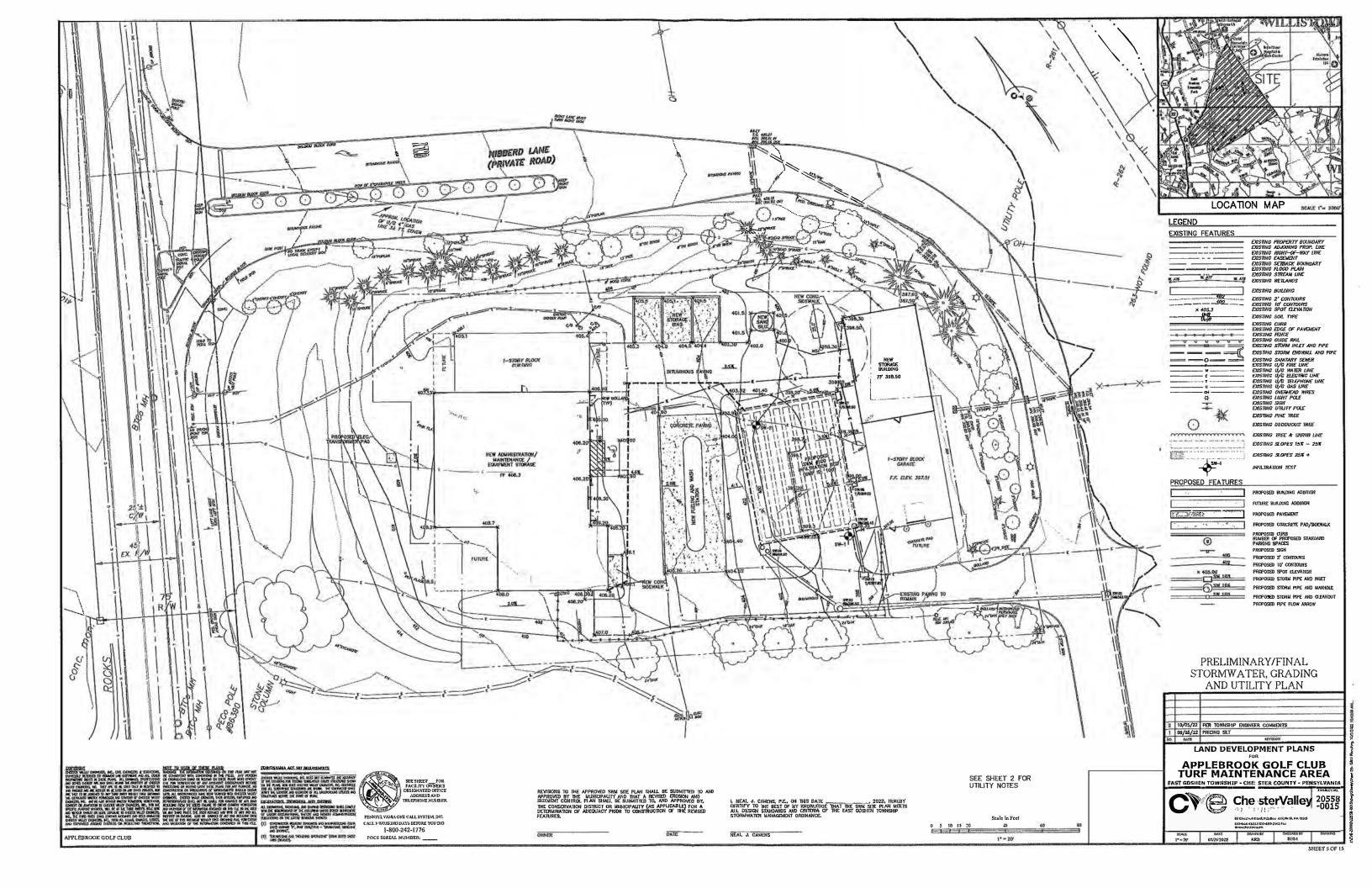
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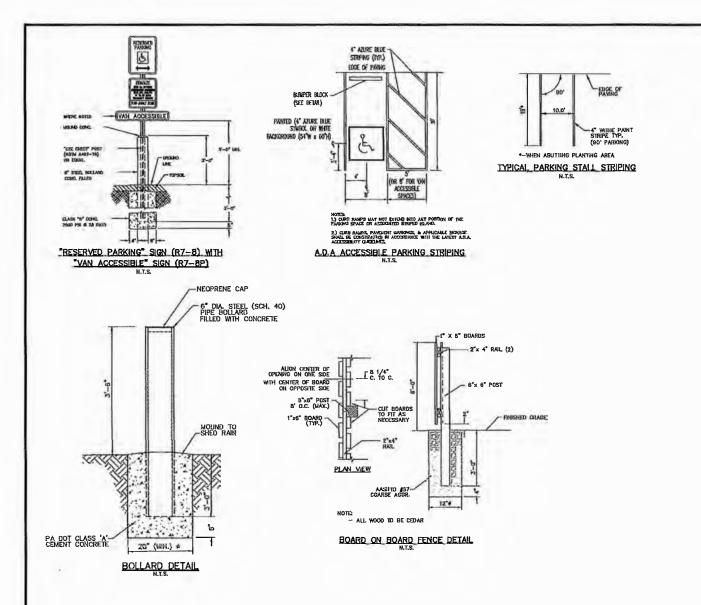
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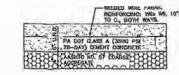
RRB









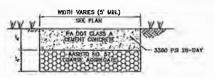


### MATERIAL STORAGE PAD DETAIL

- NOTES:

  1. WELDED WHRE FABRIC MAY BE PLACED W/
  TRANSVERSE WIRES ABOVE OR BELOW
  LONGITUDINAL WIRES.

  2. FURNISH WELDED WIRE FABRIC PER PA OUT
  PUB 408, SEC. 703.

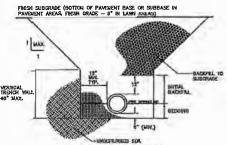


KODE,
SDEWAKS SHALL BE CONSTRUCTED IN 30 FT. SECTIONS EXCEPT
FOR CLOSURES.
SECTIONS SHALL BE SEPARATED BY 1/4" THICK EXPANSION JOINT
MATERIAL TO BE INSTALLED BETWEEN SECTIONS AND AT ALL
STRUCTURE OF THE SECTION OF THE SEC

STRUCTURES.

3. SIDEWALKS SHALL BE SCORED EVERY 4 FT.

CONCRETE SIDEWALK DETAIL



TYPICAL PIPE TRENCH DETAIL

			BACKFAL TO SUBCRADE	
PIPE TYPE	BEDDONG	INTIMA BACKFILL	BEYEARH BITUVINOUS PAYEMENT, CONCRETE SIDEWALK OR PAYERS (EXCEPT SEE HOTE 3)	BOEATH OTHER AREA
PUBLIC ROW	AASHTO #8 COARSE ACEREGATE	PA DOT HO, 2A COARSE AGGRL	PA DOT NO. 2RC COARSE AGGREGATE	PA DOT NO. 2RC COARSE ÁCCR.
ZEDRA (MELAT)	AASHTO #8 STADSAEDA SERACO	SUITABLE WATERIAL	SLRIFABLE WATERIAL	SUITABLE WATERIAL
STORM (RCP)	AASHTO AB	PA DOT NO. 2A COARSE AGGR.	SUNYABLE WATERIAL	SUITABLE
STORM (OTHER)	PA DOT NO. 2A COARSE AGGR.	PA DOT NO. 2A COARSE AGGR.	SURTABLE MATERIAL	SURTABLE
SANTARY	COURSE ACCREGATE	PA DOT NO. 2A COARSE AGOR.	SENTABLE WATERIAL	Suitable Materal
WATER (CEP)	NONE REQUIRED	PA DOT NO. 2A COARSE AGGR.	SURTABLE MATERIAL	SULTABLE
WATER (TUBONG)	SAHO, TYPE A, PA DOT, PUR. 408, \$ 703.1	SAND, TYPE & PA DOT, PUB. 40A, \$ 703,1	SATABLE MATERIAL	SUITABLE MATERIAL
OTHER PIPE,	AASHTD FEI CDARSE ACCREGATE	PA DOT NO. 2A COARSE ACCR	SUITABLE MATERIAL	SUITABLE

NOTIE;
1. ALTERIATIVELY, SHORE TRENCH WALLS PER OSHA OR OTHER APPLICABLE ACENCING WITH JURISDICTION.
2. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS FOR "SUNTABLE MATERIAL", PA DOT \$2 COARSE ACCRECATE MAY BE USED. IN LEGU OF "SUTABLE MATERIAL" AT NO ADDITIONAL COST TO OWNER.

J. FOR POPE TRENCHES WITHOU EX. BITUALNOUS PAYEMENT TO REMAIN, USE PA DOT NO. 2A COARSE ACCREGATE TO BACKFRIL

INST COURSE DAMASE. COMPACTED SINGRADE

BITUNINOUS PAYEMENT SECTION

LOCATION		
DEPTH	MEDIUM DUTY: ON—SITE PASKING AREAS & DRIVEWAYS	
WEARING SUPERPAYE ASPHALT WIXTURE DESIGN, WAA WEARING COURSE, PG 64-22, <0.3 MILLION ESALS, 9,5 MM MIK SRI-L	1 1/2"	
BINDER: SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDING COURSE, PG 64-22, <0.3 MILLION ESALS, B.5 MA MIX, SRL-L	3,	
BASE: BITUMINOUS CONCRETE	HONE	
SUBBASE: Penn DOT 2A STONE BASE	10"	

NOTE:

1. PAYMENT SHOULD BE INSTALLED LATE IN CONSTRUCTION WHEN MOST HEAVY CONSTRUCTION TRAFFIC WILL

1. NO LONGER COAL OK-SIE. PRIOR TO PANNE. THE SIE SHOULD BE PROGREGULED AGAIN, NEW SOFT AREAS

TREATED IN ACCORDANCE WITH SOLL RESIDEATION NOTES ON SHEET, I, THE BASE LEVELED AND THICKENED AS REQUIRED, AND THE SIE FAMED AT THE END OF CONSTRUCTION.

2. FOR PAYMENTY WHENE WIGHERD, DETTEND SUBBASE AND/OR BASE COURSE EIGHT INCHES BEYOND EACH

RECRURED EDGE OF THE BINDER AND SURFACE COURSES.

3. FLORIBLE, (ACRECIATE) BASE SHOULD BE COMPACIED TO 100X OF THE MATERIAL'S MAXIMUM DRY OPISITY

AS PER MODIFIED PROCTOR (ASTM D-1557), PREPARED SUBRADE COMPACIED TO AT LEAST 98X OF THE

3. PAYMENT MUST BE FLACED OVER WILL IN THE UPPER Z BELEVO SUBCRADE AND TO AT LEAST 55X OF

3. SEALING MATERIAL FOR FILLING PARCHENTY AND SAND LANGUAGE AND TO AT LEAST 55X OF

DIES STANDARD PROCTOR (ASTM D-188) AND MATERIAL SUCH AS SULCONE, HOT OR COLD-POURED RUBBERIZED

3. SEALING MATERIAL FOR FILLING PACHENTY AND SHALL MEET THE RECOMMENDATION OF ASTM D3405 OR

DIESON ALTERNATIVELY, LOW MODULUS MATERIALS SUCH AS SULCONE, HOT OR COLD-POURED RUBBERIZED

4. ASPINAL TOR NITHELE RUBBER MEETING THE MATERIAL SUCH AS SULCONE, HOT OR COLD-POURED RUBBERIZED

4. ASPINAL TOR NITHELE RUBBER MEETING THE MATERIAL FOR THE RECOMMENDATIVE OF ASTMEDIATED.

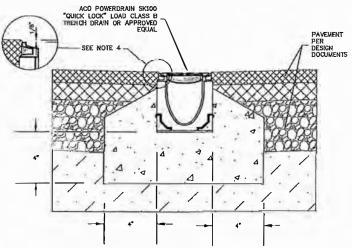
5. CALING WATERIAL FOR FILLING PACHENTY SHALL SHEET THE RECOMMENDATION OF ASTMEDIATED.

6. CAR TREATIC SHOULD SHOULD HOT BE ALLOWED ON THE NEW PAYMENT FOR AT LEAST 3-DAYS, SIMILARLY

1. NO RUCK TREATER OF THE TRAIL IS ABOVE THE SURROUNDING GRADE, BITUMINOUS PAVEMENT SHALL BE

1. FEATHFRED.

DOWNSPOUT DETAIL



- MOTES:

  1. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND.

  2. MINIMUM CONCRETE STRENGTH 4.000 PSI. CONCRETE SMOULD BE MBRATED TO ELIMINATE AIR POCKETS.

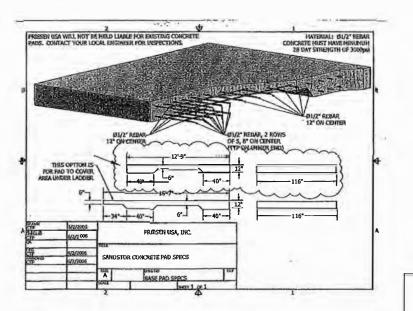
  3. PROTECT CHANNEL AND CONCRETE SURROUND. ADM TO SAID REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND.

  4. THE FIRSTED LOCAL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3-mm] ABOVE THE TOP OF THE CHANNEL EDGE.

  5. CONCRETE BASE THICKNESS SHOULD MACH SLAB THICKNESS.

  6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS,

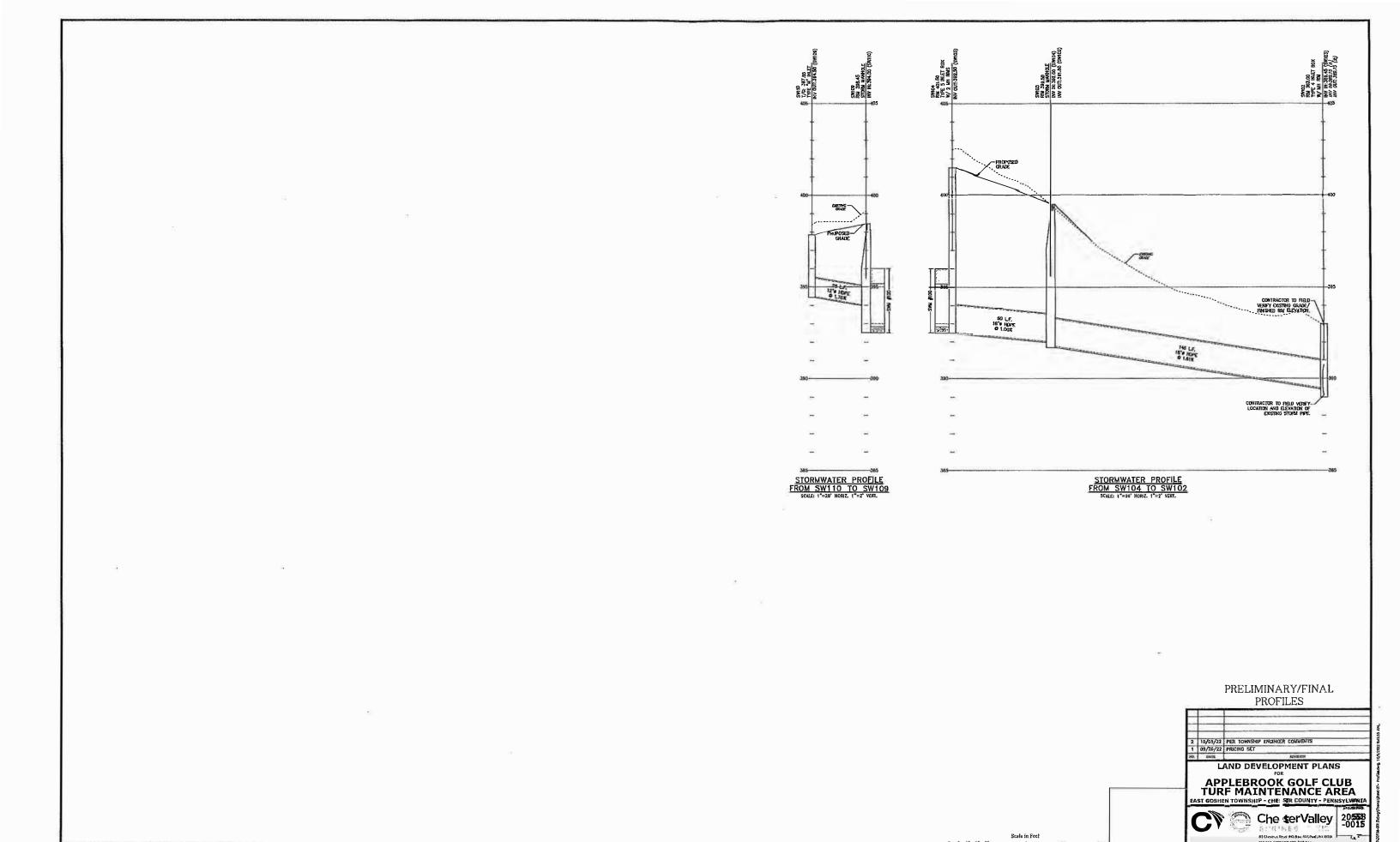
TRENCH DRAIN DETAIL



### PRELIMINARY/FINAL CONSTRUCTION DETAILS AND NOTES

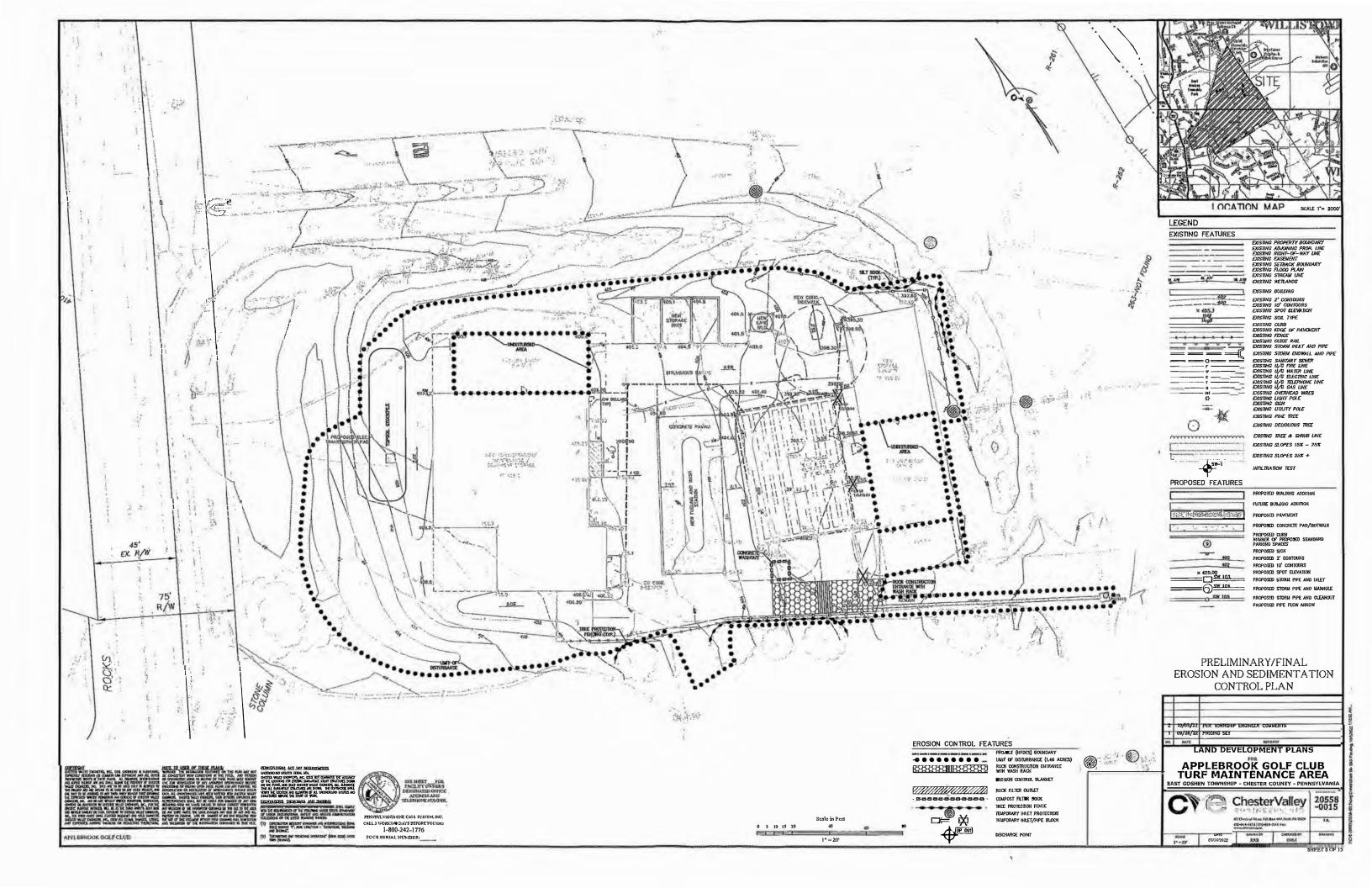


APPLEBROOK GOLF CLUB



APPLEBROOK GOLF CLUB

SHEET 7 OF 15



## GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

SEDIKENTATION CONTROLS AND CONTRACTION WILL BE RESPONDED FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL BROSICH AND RELATED ITIAS INCLUOD WITHIN THESE PLANS.

DE WIH APPROVED EAS PLANS.
10 JUST BE AVAILABLE AT THE TO THE IMPLEMENTATION OF TALL AT 115 OSCIEDION. inty conservation district Locations. ALL ENTRY DISTURBANCES, INCLUDING GEARING AND GRUBBING AS WELL AS CUTS, AND FILLS, SYALL BE DONE IN ACCORDANG A BEGY CFT RE APPRICED PROSON AND SYMBENT CONFIGE, FLAM (STAMPED, STABE). AND ONED BY THE REPERMING ACENCY PROCES SITE AT ALL THEES. THE REVIEWING ACENCY SALLL BE NORTHED BY ANY CHANGES TO THE APPRICED FOR THE PROSON FINDS. THOSE CHANGES, THE REVIEWING ADDICH ANA REQUIRE, A PRICIED STBAILTH, OF THOSE CHANGES FOR REAVER AND APPROXI-

the operator shill assure that an erosion and sediment critico, plah has bern predated, approved by the col And is being kiphemented and manytahed for all sigl and/or rock spoil and borgow afers, recardless of ther

- HE CHESTER COMMY COMPENSATION DISTRICT (CCCU)
  ROBERTS SAURE, A 1914 G.
  ROBERTS SAURE AND ROBERTS TO REPORT OF RECOMERNICATION FOR THE RIDLEY CREEK IS HICH COUNTY.
  ROBERTS THE CALL THE CALL OF RECEIVED THE CALL HANDLAND FOR THE RIDLEY CREEK IS HICH COUNTY.
  STOCKOME STREEK, MIGRATURY FISHES (40-157)
  A 10717 THE CALLING TOWNSTRY POSTION OF THE PALL DESIGNATION OF THE RIDLEY CREEK (ACCOUNTY FISHER)
  A 10717 THE CALLING TOWNSTRY POSTION OF THE PALL DESIGNATION OF THE RIDLEY CREEK (ACCOUNTY FISHER)
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  A 10717 THE CALLING TOWNSTRY POSTION OF THE PALL DESIGNATION OF THE CALL DATE OF THE PALL DESIGNATION OF THE PALL DATE OF THE PALL DAT
- PRECIDES.

  PRECIDING, AND REALDIAL MANITONAICE WORK, INCLUDING CLEM OUT, REDAIR, REDIACACHENT, REEROUNG, RESEDDING, STEP RETICHED, REPLACEMENT TO SERVICINE THE MEDIATEN. FEET SERVICES AND STEP RETICHED WITH SERVICES AND STEP SERVICES AND STEP SERVICES.

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- 1) WIRE TIMES AND EVALUE OF PALL TO ALLENATE BEOSON OF PLANTING PERFORMANCE.

  A THE LOCATION AND SENDING SHOULER AND PRICATE THE RECEIVED FOR THE ROLL OF THE RECEIVED AND STRAILED ELSAWISE ON THE SITE.

  A THE LOCATION AND SENDING THE RELOAD THE RECEIVED THE RECEIVED AND STRAILED ELSAWISE ON THE SITE.

  30. CHE THE PROBLEM OF SHOULE BE RECEIVED AND MACHINE THEIR SOCKS REGIOND AND STRAILED ELSAWISE ON THE SITE.

  40. SHOULD ANY LUBBRICK ON STRAILE THE PLAN PROPERTY THEIR SOCKS REGIOND AND STRAILED ELSAWISE ON THE SITE.

  41. CHAMMELS SENDING THE RELOAD THE RECEIVED AND MACHINE THEIR SOCKS REGIOND AND STRAILED ELSAWISE ON THE SITE.

  42. CHAMMELS SENDING THE SHOULD AND MACHINE THEIR SOCKS REGIOND AND MACHINE TO BE MACHINED AND THE SITE.

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  - FOR THOUSE SHALL UTILIZE THE GAUGETE WASHOLT AREZ PRIOR TO LEANING THE SITE.

    ILLIE TRENGE SCANTRION UPGES.

    ILLIE TRENGE SCANTRION UPGES.

    FOR THE STANDARD AND GAUBBING OF PRAIDINGS TO A DISTANCE EQUAL TO THO THIS THE LENGTH OF PIPE INSTITUTION THAT CAN BE FAUTHOR AND GAUBBING OF PERFORMED TO PIPE, PLUS CONSTRUCTION AND BLOCKFILLING WILL BE SELF CONTAINED AND SEPARTE, OF CHES AND CENTRAINED FOR TERRICHING PLANTAL SIDE AND STANDARD STANDARD TO THE LENGTH OF PIPE, PLUS CONSTRUCTION AND BACKFILLING PROPERLY FILE BRACKED WHE UPPAIL SIDE OF THE TRENCH PROCESSION OF THE LENGTH OF PIPE TALCEMENT, PLUB INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME Se. AL CONT 57. UTUITY L
- WRITE WAS ACCURATED TROUGH THE CORT PROCHES WILL BE UNESTINED FRANCES OF FRANCES OF PRIMED SPECKE PIPE.

  EIGHER, WILTER REJOIDS TROUT THE TREIGH SMLL BE UNESTINED FRANCES OF THE DAY FOLLOWING PIPE PLACEIGHT AND TREIGH SACRETURIG, THE DISTURBED AREA WILL BE GRADED TO FRANCE CONTINUES AND IMMEDIATELY SYMBITZED.

## SPECIAL GEOLOGIC AND SOIL CONDITIONS NO SEGAL SOIL OF GEOLOGICAL ISSUES ARE KNOWN.

APPLEBROOK<sup>G</sup> OLFCLUB

AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE ROWNESS THE LANDONISMEN, PRINCIPARE, MAINDEAN, FORTIALS, TOWNESS THE LANDONISMEN, PRINCIPARE, MAINDEAN, FORTIALS, TOWNESS THE WISHORD AND RESIDENCE TO AND LOSSION FOR SEXUAL FORTIALS TOWNESS THE PRINCIPARY AND LOSSION FOR EXECUTION OF SEXUAL TO AN ON-STEP PRINCIPARY RETRING. upon installation or stabilization of all permeter semient control bads and at least 3 days prick to procession in the bulk earth desturbance activities, the dermittee or co-permittee small promote notheration to the township. nt least 3 days prior to starting any earth disturbance, activities, or expansing into an area previously. Unlandard, the Permistivana one call ststem ing. Sixili be nothed at 1-800–342-1778 for the Location of Edsting indergoads utilities.

LLEARIN DISTARBANCE ACTIVITIES SHALL PROCEED IR ACCORDANCE WITH THE SECUENCE PROVIDED ON THE PLAN DEAMNINGS. DORMINNI HATA SECUENCE LUSTE EL APPROVEDE BY THE TÜDMISIPI PROKE DI DURLEARTÄTION. LUCH SITED OF THE SECUENCE SHALL BE COMPLETIED BEDYEE FROMESIING TO THE NEXT STEP, CACEPT WHERE KOTED. COMPLETION OR TEMPORARY CESSATION OF EASTH DISTURBATICE ACTIVITY, OR ANY STAKE THEREOF, THE PROJECT SITE BE HIMEDIATELY STABLUZATION. TO EARTH DISTURBANCE ACTIVITY DESCRIBED IN ANY SITP OF THE CONSTITUCTION SEQUENCE, CLEAR AND GRUB AND TOPSON. STOCKPILE TOPSON. IN THE DESIGNATED LOCATIONS. SEAT

DISTURBANCE ACTIVITIES WILL BE PREFORMED IN THE FOLLOWING SEQUENCE:

- The delight is the property of the province of the province of the property of

## OPERATION AND MAINTENANCE PROCEDURE

- THE PRIMITEE SHALL BE RESPONSED FOR THE PROPER CONSTRUCTION, STABILIZATION AND MANIFOLNICS OF ALL PRESENCES SHALL BE RESPONSED FOR THESE MEASURES SHALL BE RECORDED TO ASSUME THE WAS MEASURED SHALL BE REPORTED FOR THE PROPERTY OF THE PROPE
- THE SOCK SHALL BE INSPECTED ALWITANED TO BYSURE THAT THE WOODP STAKES AND FARRIC CONFORM TO THE STANDARD DETAIL. PROME WHY INSTRUDING DETAIL OF THE CHARLY OF LIKENING THE REPLACED, ALL MYTBALL DEPOSITED BEHIND THE CORPOSIT FILTER SOCK SHALL BE DISTRIBUTED ON SITE AND IMMEDIATELY STANDALD USING SEED AND MULCH.
- B. STABILIZED CONSTRUCTON ENTRANCE (SEE) THE SCE SHALL BE INSPECITED AMMINANED TO ENSURE THAT THE STRUCTURE CONCROUNDES TO THE STRANGHOD DETINE, ROCK SHOULD BE MANTINANED AT FILL REPH AND MAY REQUIRE REPLACEMENT MAY OFF REDISTRIBUTION, HATERIAL DEPOSTED ON THE SCE SHALL BE DISTRIBUTED ON STE. AND IMMEDIATELY SYABILIZED USING SEED AND MUCH.
- C, ROCK FILTER OUTET -- IF INSTALLED, OUTLET SHALL BE INSPECTED/JANNTAINED TO EMSURE THAT MATERIAL IS NOT DISPLACED OR DAMAGED. STACING OF EASTLY MONING ACTIVITIES
- THE ONEMAL SCHEDULE OF THE PROJECT IS THAT CONSTRUCTION WILL START APPROXIMATELY BURND EARLY SPRING, 2023. HE CONTRACTOR MAY SELECT HIS SCHEDULE FOR THE SPECTIC PORTIONS OF THE PROJECT, UNLESS OTHERWISE SPECTIOD.
- SPÉCHED EROSION CONTROL, MEASURES AND FACULINES INCULDING BUT NOT LIMITED TO CONSTRUCTION CONTRACES MUST BE INSTALLED AND BE OPERATIONAL, PRICKY TO ANY EASTH MONNS ACTIVITIES WITHIN THE UPSIGNE BRUNNAGE AREAS, FOR PRELINE, CONSTRUCTION WITHIN DRIVEWAYS AND PANED ABEAS, THE FOLLOWING STAGES. ARE TO BE IMPLEMENTED SECUENTIALLY AS NORW, PROCEIDS.

  - A. INSTALL IMET PROTECTION AND OTHER LIEASURES AS SHOWN ON THE PLANS. THESE WEASURES SHALL BE INSTALLED AT LEAST 500 FEET AMELO OF PIPE INSTALLATION.
    - B. EXCAMATE THENCHES AND DISCHARGE MATERIAL DIRECTLY INTO TRUCKS. CLEAN UP SPILLAGE WITH EACH TRUCKOAD.
      - C. INSTALL PIPELNE AND BACKFIL. EROSON CONTROL FACILITES MAY BE REMOVED WHEN TEMPORARY OR PERMANENT REPAINED INSTALLED AND THE ARCA HAS BEEN CLEAKED OF ALL DEBRIS.
- ALL PREVBITATIVE AND REJECTAL MANTENACE WORK, INCLUDING CLEANOLT, REPAIR, REPLACEJON, REGSEDING, RESSEDING, RESSEDING, RESPECING, REPAIR AND RESPECTATION GUST BE LEVER-ANDIA IMBERIEST, I FEROWAN AND SEDINGATIVATION GUSTS FAIL TO SERFORM AS DEFECTED, REPLACEDERT BASE OR MODIFICATIONS OF THOSE MINISTED. WHERE BINES ARE FOLKIN TO FM. TO ALLEYATE EROSION AND SEDMENYATION POLLUTION, THE CONTRACTOR SHALL RICLUDE. THE FOLLOWING INFORMATION:
- THE LOCATION AND SERBIT OF THE BRIEF CHAUSE, AND PREVENT THE RECOMPLANCE OF THE MON-COMPLIANCE.
  THE SIRES TAKEN TO CORRECT THE NON-BOAD-LANCE, INCLUDING THE EXACT DATES WHEN THE AND TO CORRECT THE NON-BOAD-LANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL STROME TO CORRECT THE NON-BOAD-LANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL STROME TO CORRECT THE NON-BOAD-LANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY OF THE NON-BOAD-LANCE THE NON-BOAD-LAN

## VEGETATIVE STABILIZATION NOTES.

- AS DISTURBED AREAS WITHIN A PROACT APPROACH FINAL CRAOF, PREPARATIONS STOLID BE MADE FOR SETTING AND MILCIARO TO BEING ILE, AND FUNDALE THE SEDENG'S SETTING AND MILCIARO TO BEING ILE, AND FUNDALE THE SEDENG'S AND MILCIARO TO SET AND THE STANDED BY VEST, MICINIA RACH FINAL ADORG WITHOUT BEING SETDED AND MILCIARO, WATTHEY UITE. EXPRINATION OF SETULATION OF SETULATIO
- CONTRACTOR STALL VENEY PERMANENT SERVING CONTENA WITH OWNER PRICK TO APPLICATION. THERE THE SECONE RECEIVE THE RECEIVE TO A LOGARITH OF THE SOUL THE WANKED THE THE SOUL THE WANKED THE THE SOUL THE WANKED THE SOUL THE THE SOUL THE WANKED THE SOUL WITH THE OTHER SOUL AND THOUGHT IS UNLESS IT IS BRICK APPLIED AND THOUGHT THE WANKED SOUR THE SOUL WITH THE OTHER SOUL AND THOUGHT THE WANKED THE SOUL THE WANKED THE SOUL TH
  - UPW COMBLETING OR TEPEROBRY CESTON OF THE EXERT OSTENDANG SCHOOL OF THE OPECULA WITH A SECULA PROTECTION WATERSED, THAT PORTION OF THE PROJECT SIT. REQUIREY TO THE SPECIAL PROTECTION WATER SHOWN OF THE PROJECT SIT. REQUIREY TO THE SPECIAL PROTECTION OF CONTINUE OF A SECULATION OF CONTINUE OF A SECULATION OF A SECURATION OF A SECULATION OF A SECULAT
- SLOPES STEPPER THAN 3:1, NO-MOW AREAS.
   THERE ARE NO AREAS OF NO-MOW STEEP SLOPE ON THIS PROJECT. SIGNACE ROUGHONNE SHOULD BE APPLIED TO SLOPES SHEW ON STEEDER UNLESS A STABLE ROOK FACE IS PRANDING TO A STABLE ROOK FACE IS PRANDING TO STABLE THE STABLE SHOULD SHEW TO SHOW THE SHOULD SHAW TO SHEAD SHOW THE SHOW THE SHOW THE SHOW OF STEEDE MAKEN IS PROAKED AS THE MEAN'S TO ACHIEVINE PERMANDIT SHABILEXION. SHOW THE BLAKED SHOW THE SHABILEXION.
  - FIL SLDPES SKOLID BE SEEDED AND MILICHED AT REGULAR YERT, ALL INCREMENTS 15 TO 25 FEET MANAIN AS THE FILL IS BEND GWASTHUTED. THIS WALK ALCHOW THE BUTTON OF THE FILL PROCESS. TOWAGE SIVER'LATION WHE WASK COMPILIES ON THE UPPER PORTICN, LAKING FINAL SLOPE.
    - WORKING SED AND MILLOH IS APPLED BY HTGROSEDING METHODS, THE SEDD AND MULLEN SKINDLING BE.
      APPLED BY SEDDALE AND MULLEN SKINDLY SKINDL
      - - HI GRITICAL AGES (E.C. ANJUGATI FOR WHITH BY RETT OF STEEME PROVISE, ON PROTECTIVE WHICH STROUD BE FROMED FOR ALL STEEDS AFLAS. CONSIGNATION SHOULD BE CONSIDERATED. USE OF MAJCHA WILL STEEDS AFLAS. CONSIGNATION SHOULD BE CONSIDER. BLANKETS FOR ALL STEEDS AFLAS ON SLOPES SHE'Y.
- VEHICULAR TRAFFIC SHOULD BE RESTRICTED FROM AREAS TO BE SEEDED TO PREVENT SOIL COMPACTION.
  - as sown as slopes, channels, ditches and other areas disturbed during constituted in Thail, games stabbilte inaedately, in accordance with seeding, hillching and stabilization spesifications.
    - 10. HO MORE THAN 15,000 SCHARE FEET OF DISTURBED AREA REACH FINAL GRADE BEYORE WITHAN SEDING AND MULCHING OPERATIONS. 11. CESSATION OF ACTIVITY FOR 4 DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION,

## SOIL TYPE USE LIMITATIONS AND RESOLUTIONS.

- SON, TYPES POORLY SLIND, AS SOURCES OF TOPSON, RESTRICT OR PLACE CONDITIONS ON PLANTING STABLIZATION. ACIOIS, LOW FEMILITY, EXCESSIVE, ORRIGES AND EXCESSIVE WERKES DAIT PLANT GROWTH, resolutions: Identifing and resolnic characterstics, that render the soil thes poorly, sated as topsol
  - acio sox. Tpres emibiling pa readition values Longr than about 5,5, duat vegetanne stabilization Soc. Tests might be nezessary to determine site species pa reaging. SACUTIONS APPLIED ULE CONSTRUENT WITH ARTISE PETERADED TO SCRO. TESTING SELECTIVE SESSION SESSION SELECTIVES SERVICE TO SELECTIVE SERVICE SERVICE TO SELECTIVE SERVICE SERVICE
    - WERTHLY SOLTHER LAGOON HENTORIN LANDERS OF STREET BY AND STREET BY SOLTIES BY AND STREET BY SOLTIES BY AND STREET BY AND STREET
- RESERVING'S HOOPPOLYNES OLI WITHOUT CONSENTY WITH PATES CENTERWIND BY SOLI TEXTING SECURE TO LEFT CONTINUES AND INFOLIATIONS SECURES TOLENITY OF USING THE SECURE TOLENITY OF SHEET OF THE SECURE CONTINUES, AND INFOLIATIONS SECURES TO THE SECURE OF THE SECURE TO SECURE TO SECURE TO THE SECURE TO SECURE TO THE 1 OF THE Encoible son, types exhibiting K valles greater than g.38 or plasticity index values lower than 10, Luit vegetative stablization of chammes.
- CENTIDES: PROMODE TREPORAT CHARACT, LIBRO POTORION PERMACET CHANNO, LIBRO, GEOZGENICO, CHANNEL GROLL, GROLLEGAIG CHANNEL, RODO, STELCHNO CHANNEL GROLL SHE GROLLEGAIG CHANNEL, WOTH, STELCHNO PENALAGHT LINNES OHER HAW IS ASSES, AND IN PLEBENING COMBINATION OF INESS AND OF MERION PERMACENT CHARACT REPRODUCE INFORMATION FOR THE BIOSSIM PAGE SERVICES OF AND TO OF THE BIOSSIM PAGE SERVICES FOLLING CHARACT MANULA PURISHED BY PAGE.
- RESOLVINING. SELECTING YERSTAINE SPECIES TO LEMANT TO NET CONFORMS, THIS OFFICENTINE AREAS, MUD. MUDLIDING COMBINATIONS OF TRESS AND/OR ONEST METHODS, SPECIFIC TICERONICE INTERNATION IS PRINK STATE.

  PRINK STATE. WET SOR, TYPES HAVE EXCESSIVE ROOT ZOVIE AND SOR, MOLSTIRES, SOME SON, SURVENS HINCATE WETHERS, HACH WATER TABLE AND FLOODING THIS HINCATER IS AFFECTED BY SOLL DISTURBANICE.
  - RESCUTIONS. SELECTING VEGETAINE, SPECIES TOLENANT TO DAY CANDITIONS, INRULATING, VEGETATIO AREAS. AND MEDICAL TO THE EXCENDED OF THE SEASON CONTROL. & CONSTRUCTION PLANTAGE OF THOMSON-LOOP POBLESHOD BY STATE. ORY SOR, TYPES LACK SUFFICIENT ROOT ZONE SOIL MOUSTURES. THIS RAYCATOR IS AFFECTED BY SOIL DISTURBANCE.
- resalutions. Locatho those facultes on order sol, types, Louic reservoir arela, with \$PP epacares. Lumings, Louing stadion of tables. The things are the tables and information of these and informations of these and order befores. SOL THES SLECETHEE TO SORGICE AND SOLUTION CHANGER FORMATION FOR ELITIMATIONS ON COCATINO RESERVOR MEDICA OF SOBBERT BASINS, SOBLEM TRAPS, STORMWATER RETEATION BASINS, AND STORMWATER DETECTION MEANS.
  - sor. Tpts That exhbit retauty in pond edamplents or susceptibility to pung and seethigh poss Thattons on flaming debanaging destinated basins, sedarit basins, sedarit traps, stockhater retention Basins and stockhater detection basins. RESOLDINYS, INJOGRING OTHER SCIL FOR DIBANGADRY OF THOSE FADURES, LOCATING THOSE FAGUINES ON OTHER SCIL. THESE, LUDING DIBANCHDIT SLOPE STEPHESS AND IMPLIBATING COMBINATIONS OF THESE MACKY OTHER THEFOOD.
- SORIS THAT ARE DEFICULT TO COMPACT, UNSUTNABLE FOR WHITEN GRADMIC, OR SUSCEPTIONE TO FROST ACHDAN POPEL LULLIFACIONS OF PLANDAINED ENDAKALIDATE OF SEQUENTI PASHS, SEDMENT TRAPS, STORM WATER FETCHION BASHS AND STORMANTED OFFICIATION BASHS AND SECULIARIS AND STORMANTED OFFICIALISM. RESQUIRANS IMPOSTING OTHER SOUL FOR EMBANDATOR OF THOSE FAIGURES, LOCATING THOSE FAIGURES ON OTHER SOULT THESE, INC. TOWERFULLING THE SUBMINION OF EMBANDERING PRINCIPS PROVIE TO INCLUDIATING COMBANATIONS OF THESE AND/OF OTHERS METHODS.

### DISPOSAL AND RECYCLING

CONTRACTOR IS RESPONDED. FOR THE PROPER DISPOSAL DY ALL DEMOKSHED OR UNIVERD CONSTRUCTION WITHOUT SET WESTERN OF WATER UNIVERSITY OF WATER OF THE SECURITY SET WATER OF THE SE

LIKELY WASTE TO BE GEARATED AT THIS STIE:
- DIMUSED CONTRETE TO BE PLACED IN CONCRETE WASHOUT AREAS;
- EXCESS SIT'S SOOK AND FEACHIN UNITERIALS;
- GENERAL RUBBIEST AND DEBRIS

INTERCEDING THE BUXIOFF WITH THE CWINTET TREPORARY BUP'S WIL. TELPCRABILLY STORE THE SEDULANT LOUR YMENE BEHLO THE PROPOSODE LESS HEASTINGS, BOSCHY, ALCEAN WAITER TO FILIZEN THROUGH (ELE EDDICHIS) CANDEN ATTE AND VENOCITY. THE MANDAL CORUME STREETS OF ATTERING SEDIMENT LADEN WAITEN WILL HELP TO DISSPARE THE HEAT EDERGY ABSORBED BY THE STORMHAATEN. THE BLANKET HIND MET PROJECT AREA THAT COUTETS TO SURFACE WATERS OR EXISTING STERM SCHOOL THIS THEOLOGY FOLDEN SCHOOL.

EROSION AND SEDIMENT CONTROL PLAN OBJECTIVES

HI THE LANG-DISTURBING ACTIVITY TO THE TERRANT THROUGH MAYSHUR PROPOSED GRADES AS CLOSE. TO EXPENSE AND THE EXTRANT AND OURANDE OF CARTHI DISTURBANCE THROUGH THE LANG TO EXPENSE. THE COURT OF CARTHING WHO SERVED AND THE EXPENSE AND APPROPRIATE BY ACCOURTED AND THE CARTHING WHO SERVED AND THE CARTHING THE CAR

# SEEDING AND MULCHING SPECIFICATIONS

- TREADMENT BY ANNAL BY CHAIS APPLED AT 46 US. PER ACHE, UNKE TO BE APPLED AT 1 100/14/05. ON US.ACKE.
  10-15-10 FORLIGH TO BE APPLED AT 3 TOWE/ACKE.
  14AY OR SITIAM MULCH TO BE APPLED AT 3 TOWE/ACKE.
  - PERMANDIE. LIMING TO BE, APPLIED AT 8 TOW/ACRE. IN GA-10-20 FERRILIZEN TO BE, APPLIED AT 3 TOWS/ACRE. HAY OR STRAW MUCH TO BE, APPLIED AT 3 TOWS/ACRE.
- NON-STED AREAS < 21, 1403-LY MANTANED AND MONED, USE ONLY ON TOP SOU, AREAS,

  S REDING SALL BE SAY KENTOKY BLUGGACKS, 30% RED PEDSJE, AND 20% PEPURHAL, RYE GAASS, AT A RATE
  OF 21 BS, PER 1000 SCAMAR YNDS.
- CENERAL.

  THE RANGE COMMATINE PERFORM AND THE LANGE, FERTINDS, SENDE AND MUCKED TO THRU APRIL TO, DAYS OF THE DEPROY WHITH THERTY (20) DAYS OF THE DEPROY AND WHITH THE PERFORM. MAY BE SENDED AND MUCKED SHALL MINE THOSE FREEDOWS. HE SENDE MINH VEETAMES SHALL BE SENDE MINH VEETAME CONTRY AND STORKING THE STAND THOSE THRUSH CONTRY AND STORKING THE STAND THRUSH SHALL MINE TO THE MAY BE SHALL BE STEDD WITH VEETAME WHITH THE CONTRY AND STORKING THE STAND THE STAND THE STAND THE STAND THE STAND THE STAND THE STORKING THE STAND THE STAND

### MULCHING NOTES

- 1. ALL SERDED AREAS SROUD BE MULCHED OR BLAWKETED TO MINIMATE. THE POIDPTIME, FOR FAULINE TO ESTABLISH AN ALGOMENT EVERFAILED WINNER OF STARLE AN ALGOMENT CONCE. MILCHOR DAY, ALGO NE USED AS A TO-BLOWANY STARLED AREAS IN NEW-CHANNING SEASONS.

  2. SINGHING AREAS IN NEW-CONCED, DAY, AND ALGO NEW DAY, AND A PELLOL AND A PELLOLAR AND A PELLOLAR

### TOPSOIL APPLICATION NOTES

- graded areas skould be scampied or otherwise ladsened to a depth of 3 to 5 inches to prevait benoded the Endock to the supplace to prevent topsol, the supplace to prevent topsol, the supplace to prevent topsol, the capacity of sold supplace to down slope.
- TOPSON, SHOULD BE UNFORMLY DISTRIBUTED ACROSS THE DISTRIBBED AFEA, TO A DEPTH OF SIX (6) INCHES MIRMANI. SHOULD BE ODNER IN SUCH A MANNERS THAT, SCOONS OR SEDEMO, ON PROCEED WITH A LIMINARY OF ADDITIONAL PREPARATION OF TALLEE. INSECTIONARIES IN THE SUFFACE RESULTING THOU INFORMATION OF THE PROCESSION STATES. SHOULD THE CARBELT IN GROBE TO PREVENT FORMATION OF DEPRESSIONS INVESS SUCH DEPRESSIONS ARE PART OF THE PLASE NAME.
- TOPSOS, SOLID, HOT BE PLACED, WHEE "HE THOSE OLD AS DESCOURS IN A MEDIZATION GAUGING WHICH THE SUBSOCI IS EXCESSIVE, WHEN THE SUBSOCI IS EXCESSIVE, WHEN THE PREPARATIVE WE ARE A CONDITION THAT MAY OFFIGWES BEED PREPARATIVE, COMPACTED SOLIS SHOULD BE SCANIFED 6 TO 12 INCHES A LONG CONTOUR WHEREVER POSSIBLE PROPARATION. COMPACTED SOLIS SHOULD BE SCANIFED 6 TO 12 INCHES A LONG CONTOUR

## SOIL AMENDMENT APPLICATION RATE EQUIVALENTS

34	REDURED IN ACRICULTURAL PIEDS	NEOURED IN ACRICULTURAL PIEDS		TYPICALLY HOT RECURRED FOR TOPSOL STOCKPLES	TYPICALLY NOT RECOMBED FOR
PER 1,000 S	2,480 LB.	210 LB.	X RATE (MIH.)	410 LB.	100 LB.
PER 1,000 ST PER 1,000 ST	240 1.8,	25 118.	TEMPORARY SEEDERG APPLICATION RATE (MIH.)	40 LB.	12.5 LB.
PER ACRE	8 TONS	1,000 LB	TEMPORARY ST	NOT 1	500 LB.
SON, ANDRONENT	AGRICULTURAL LINE	10-10-20 FERTUZER		ACRICULTURAL DIVE	10-10-10 FERNUZER

		T OR CLAT STRAW, FREE OF CROPPED OR FIRELY BROKEN	CLOWIR AND TOACHEY E FORACE CRASSES	DUBNATION OF CURES	ABOYE						PRELIMINARY/FINAL	A NID	AIND	The second secon
		BINGR WEAT ON WEDS, NOT CHO	THOTHY, MOCES	DAY PRESENT OF	SEE LIMITATIONS ABOVE						LIMINA	EDOCION A NE	CICON!	
CKS	MER 1,000 SY	1,240 LB.	1,240 LB.	165-275 IB. 1,650-2,500 IB.	415 tū.					2	PKE		4	
SCATION PAIE (V	PER 1,000 SF	140 LB.	140 LB.	165-275 IB.	47 UB.	PATES	PER ACRE	134 CY	268 CY	403 CY	537 CY	672 CY	806 CY	
APPE	PER ACSE	3 1045	3 TOMS	€-8 TONS	1 TON	TOPSOIL APPLICATION RATES	PEN 1,000 SF	3.1 CY	6.2 CY	9.3 CY	12.4 CY	15.5 CY	tae cy	
	MULCH TYPE	STRAW	HAY	WOOD CHAPS	HYDROMALCH	OPSOIL AP	OEPTH (N)	-	7	3	+	5	9	-

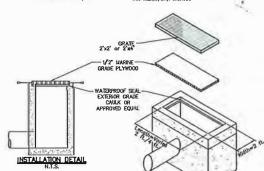
SEDIMENTATION CONTROL NOTES	the same

INVONES   PER IUMNSHIP ENGINEER CORMENIS	1 09/26/22 PRICING SET	2	0/03/22	10/03/22 PER TOWNSHIP ENGINEER COUMENTS
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APPLEBROOK GOLF CLUB TURF MAINTENANCE AREA LAND DEVELOPMENT PLANS







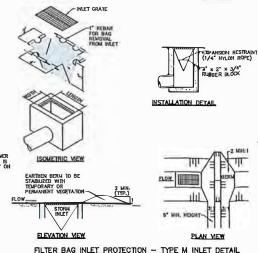
INLET TEMPORARY SEAL DETAIL

ELEVATION VIEW FILTER BAG INLET PROTECTION - TYPE C INLET DETAIL

- LANDAUM DRAINLOS AREA = \$ ADECURED FOR INLET TRIBUTARY TO SEDIMENT BASN OR TARM. BERNIS SHALL BE RECURED FOR ALL INSTALLATIONS.

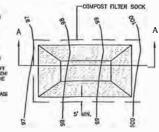
  ROLLED EARTIEN BERNIS HALL BE LANDAURED WITH ROADWAY IS STONED. ROAD SUBBASE BERNI SHALL BE LANDAURED WITH ROADWAY IS FALVED. SX RICH WIRIAMN HIGHT A SPHALT BERN SHALL BE LANDAURED WITH ROADWAY SURFACE RECEIVES FINAL. HERDER AND WITH THE ROADWAY SURFACE RECEIVES FINAL.

-2"x2"x3/4" RUBBER BLOCK



FILTER BAG INLET PROTECTION - TYPE M INLET DETAIL

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.



SECTION A-A

NOTES:

PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE EROSION AND SEDMENTATION CONTROL PLAN.

SEDMENTATION CONTROL PLAN.

ALL SIDE SLOPES SHALL BE 2 TO 1 OR PLATTER.

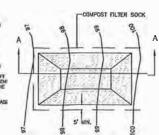
STOCKPILE SHALL, RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQUIREMENTS.

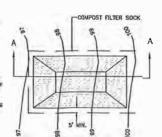
4. COMPOST FILTER SOCK SHALL BE INSTALLED AS DETAILED HEREON.

5. LOCATION OF PROPOSES STOCKPILE WHICH AFFECT REGISION CONTROLS ARE SHOWN SCHEMATICALLY ONLY. ACTUAL STOCKPILE LOCATION MAY CHANGE DURING CONSTRUCTION.

6. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET.

STOCKPILE DETAIL

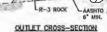




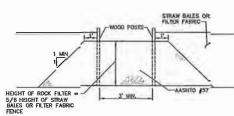
COMPOST FILTER SOCK CONCRETE WASHOUT DETAIL

-MAXIMUM DEPTH OF CONCRETE WASHOUT WATER IS SOX OF FILTER RING HEIGHT

SECTION MEW

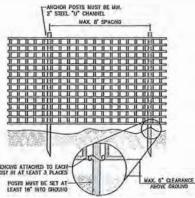




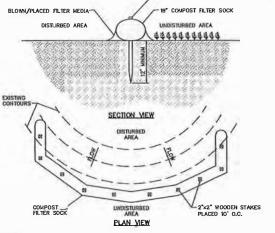


### UP\_SLOPE FACE

### ROCK FILTER OUTLET DETAIL



TREE PROTECTION BARRIER FENCE DETAIL



2"x2" WOODEN STAKES PLACED 10' O.C.

NOTES:
1. SIGK FABRIC SHALL MEET THE STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE TANDARDS OF TABLE 4.2.
1. SIGK FAHOARDS OF TABLE 4.2.
1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT. STANES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SOCK

- SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIPICATIONS OF REPAIRED ACCORDING TO MANUFACTURER'S SPECIPICATIONS.

  BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLIBLE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

  LIPON STABLIZATION OF THE AREA TREDUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VECTATED OR RESPONDED. IN THE LATTER CASE, THE SOCK MAY BE LEFT IN PLACE AND VECTATED OR REPORT TO LESS PLAN FOR COMPOST SOCK LOCATIONS, SIZE, IDENTIFICATIONS AND CONSTRUCTION SPECIFICATIONS.

  COMPOST FILTER SOCK DETAIL.

  N.T.S.

3 ML HDFE 5 ML HOPE 8 ML HOPE 170 SOC 3/8 3/8" 3/8" HESH OPENIN TENSILE STRENGTH 26 PSI 25 PSI 44 PS 202 PSI 23X AT 1000 HR. 23%:AT 1000 NR 100% AT 1000 HR. 100% AT 1000 HR. 1 YEAR TWO-FLY SYSTEMS INNER CONTAMINANT NETTING DISON\_BOTOMS I NOT DES

TABLE 4.1 - COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

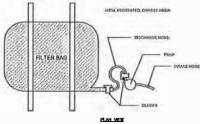
TABLE 4.2 - COMPOST STANDARDS

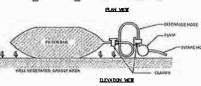
ORGANIC MATTER CONTENT	BOX - 100% (DRY WEIGHT BASIS)		
ORGANIC PORTION	FIBROUS AND ELONGATEO		
pH	5.5 - 8.0		
MOISTURE CONTENT	35x - 55x		
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN		
SOLUBLE SAILT CONCENTRATION	5.0 dS/m (mmhos/cm) MAX MUM		
T	DELIMINIA DVICINIA		

PRELIMINARY/FINAL **EROSION AND SEDIMENTATION** CONTROL DETAILS

3/4" x 3/4" WAX. APERTURE SIZE







### PUNPED WATER FILTER BAG DETAIL

NOTES:

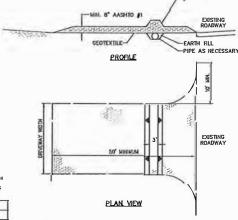
I ON NOLINE FILTER BACS SHALL BE MADE FROM NON-MOKEN CEUTEXTILE MATERIAL SOME YATH HE FROM NOLINE STITLEDED "Y TIPE SOULS. THEY SHALL BE CAPARE OF TRAPPRIO PARTICLES LARGOR HEAVI HOS LOCKOUS. HON VOLUME PLIER BACS SHALL BE MADE FROM NOVEM CEOTEXTILE THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MONTH STANDARD
AVO. NOE WOTH STRENGTH	ASTM D-4884	60 LB/N
GRAS TEXSLE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 lB
MULLEN BURST	AS1N D-3766	350 PS
UV RESISTANCE	ASTM D-4355	70%
A DS % RETARNED	ASTM D-4751	60 SIEVE

- A SAME AND SET OF ACCESSION THE BAD WITH INCOMINEY REQUEST FOR DISPOSAL PURPOSES SM. BE PROVIDED, HITTER BADS SHALL BE REPLACED WHICH THEY BECOME IT, BALL OF SEXUENT, SPARE BACK SHALL BE KEPT AMALIBLE FOR REPLACIPATION OF THOSE MINTH HAVE FALLED OR ARE FILLD.

  BACK SHALL BE KAPET ON STRUKE TO FACULTATE REMOVAL WALEZE BACS COME WITH LETTING STRUK AREADY ATTACHED.

- THE PUNP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MAINTER SPECIFED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
- THE PUMPING RATE SKULL BE NO CREATER THAN 750 CPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHOLEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
- FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DEJECTED, PURPING SHALL CEASE AMEDIATELY AND NOT RESIDIE UNTIL THE PROBLEM IS CONFECTED.



- \* MOUNTABLE BERM USED TO PROVIDE COVER FOR PIPE NOTES:

  1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
- RUNOFF SHALL BE DIVERIED FROM ROADWAY TO A SUITABLE SCOINENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
- 3. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPRE PIPE COVER AS SPECIFIED BY MANUFACULIERS IS NOT OTHERWISE PROVICED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF OTICH BEING CROSSEO.

MAINTENANCE:
ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE
CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY
ADDRO ROCK. A STOCKPILE SHALL BE MAINTAINED ON STE
FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAYED
ROADWAYS SHALL BE REMOYED AND RETURNED TO THE
CONSTRUCTION SHE IMBEDIATED. IF EXCESSIVE AMOUNTS OF
CONSTRUCTION SHE IMBEDIATED.
OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT HIGHERENTS
UNTIL CONDITION IS ALLEWATED OR INSTALL WASH RACK.
WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO
ROADWAY OTOHES, SEVERS, CULVERTS, OR OTHER ORANIAGE
COURSES IS NOT ACCEPTABLE.

PLOCK CONSTRUCTION FITTANCE DETAIL

ROCK CONSTRUCTION ENTRANCE DETAIL

B' (M21.)

### ROCK CONSTRUCTION ENTRANCE WITH WASH RACK DETAIL

NOTES:

1. WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS.

- 2. WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.
- A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL YEHICLES EXITING THE SITE.

MAINTENANCE:
ROCK CONSTRUCTION EDITRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNIOER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPARED PRIOR TO FURTHER USE OF THE RACK. ALL SCHIMENT DEPOSITED ON ROUNDYAST SHALL BE REPOWED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE RADWAY OR SKEEPING THE OPPOSITS NITO RADWAY STOKES, SENERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

### TREE PROTECTION FENCE DETAIL

PLACE THE TREE PROTECTION FENCE ALONG THE DRIPLINES OF TREES OR FOOT FROM THE TREE TRUNK FOR EVERY INCH OF TRUNK DIAMETER, FOUT FROM INCE. INCE. HOURS FOR EVERT MICH. OF INCHEN DIMELEY, WHOCKEVER IS GREATER. A ORIFILME IS AN IMAGINARY UNE EXTENDING DOWN FROM THE OUTBER-LOST BRANCHES OF A TIREE TO THE GROUND. THIS IS GENERALLY THE QUIETE BOUNDARY FOR TREE ROOTS. IF THE TREE PROTECTION FENCE IS PLACED MY CLOSER TO A TREE, ITS PURPOSE MAY BE OFFCATED.

MAINTENANCE: INSPECT THE TREE PROTECTION FENCING PERIODICALLY DURING CONSTRUCTION TO MAKE SURE THAT IT IS POSITIONED SECURELY.

ALL WOOD' VECETATION TO BE RETAYED WITHIN 25 FEET OF A BUILDING SITE PARKING AREA GROWNLY OR OTHER PROPOSED UPPROVIDED HIS SHALL BE PROFICCIED FROM EQUIPIENT DAMAGE BY FENDING OR OTHER FEFTING BARRIERS APPROVED BY THE TOWNSHIP PICHORER / LANDSCAPE ARGHITECT. FENDING OR BARRIERS SHALL BE PLACED AS NOTED BELOW, UNILSS PRIOR DETERMINATION HAS BEEN MADE BY THE TOWNSHIP DESCRIPTION: TREES ARE OFIEN DAMAGED BY MOVING CONSTRUCTION EQUIPMENT OR BY SEQUENT BUILDUP AROUND THE ROOTS. TREE PROTECTION FEROMIC, WHEN PLACED ALONG OR AROUND TREES, SERVES AS A BOUNDARY MARKER TO INDICATE THAT CLEARING AND STOCKPILLING ARE NOT PETRUITED BEYOND THAT POWER. WHEN USED: TREE PROTECTION FENCE MAY BE USED WHENEVER THERE ARE SPECIFIC TREES OR WOODED AREAS THAT MUST BE PROTECTED.

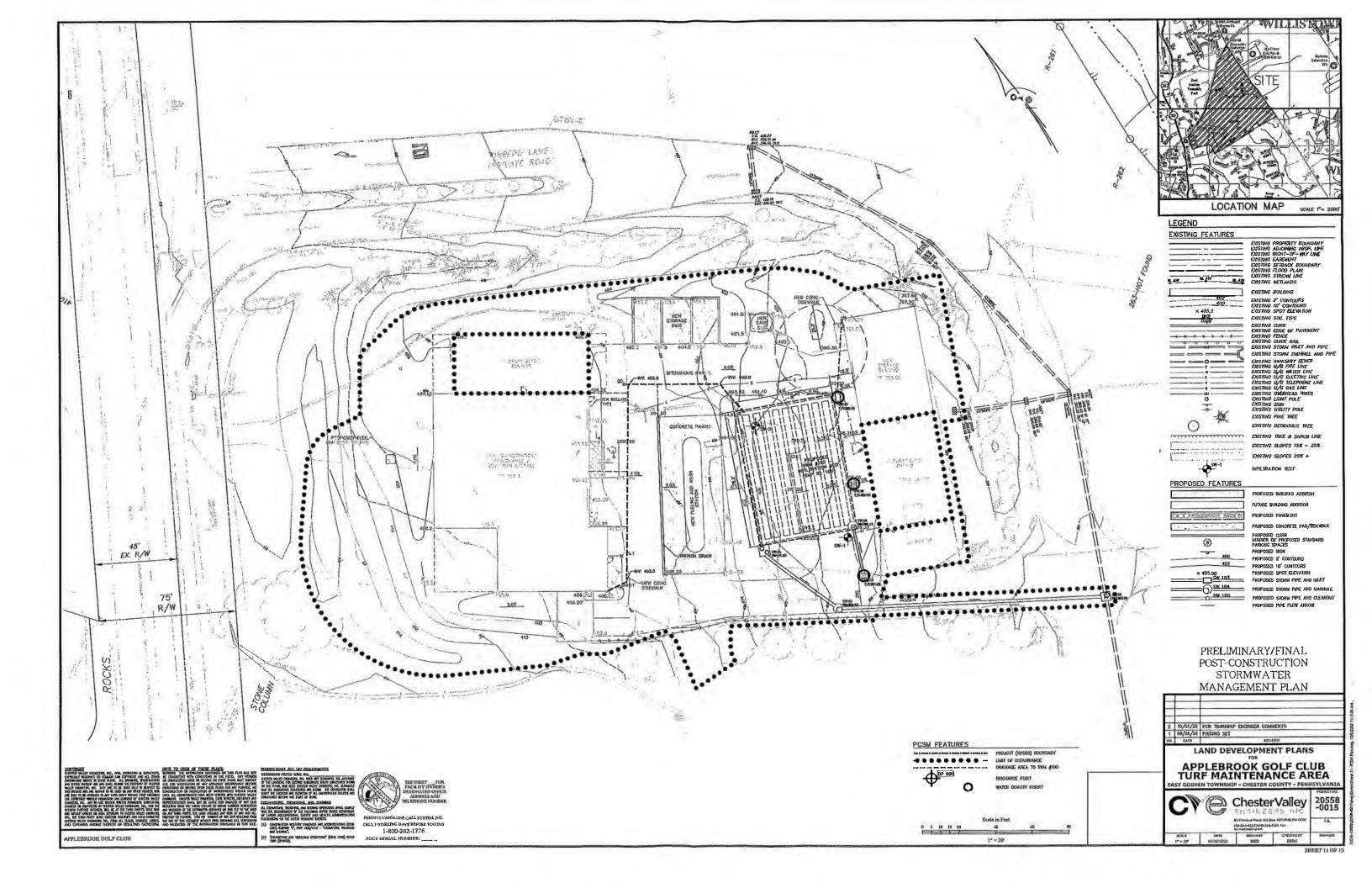
REQUIREMENTS FOR INSTALLATION: THE TREE PROTECTION FENCE IS INSTALLED BY HAMMERING WOOD OR METAL STAKES INTO THE GROUND AND CONNECTING THE FENCING MATERIAL SECURELY TO THE POSTS PER THE MANUFACTURERS' INSTRUCTIONS.

PROTECTION BARRIER SHALL BE 4 FEET HIGH, CONSTRUCTED OF DURABLE AND HIGHLY MISBLE MATERIAL (PLASTIC GRANGE CONSTRUCTION FENCE AND/OR SHOW-FENCE MAY BE USED).

2. PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE,

TREE PROTECTION FENCE

APPLEBROOK GOLF CLUB



### GENERAL NOTES:

STORUWATER WARAGEMENT DESIGN: REFER TO THE "POST-CONSTRUCTION STORWATER MANAGEMENT REPORT", PREPARED BY CHESTER VALLY PRINCIPES.

2. MAINTENANCE NOTES:
A. THE BUP'S LISTED BELOW WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.
INFILTRATION BED
WATER CALANTY PRIPER(S)
STORM SEWER AND ASSOCIATED STRUCTURES

3. DESIGN CONSIDERATIONS:
SUBSURFACE BEDI DESIGNED TO STORE AND MITIGATE POST-DEVELOPMENT RUNOFF TO RAIES LESS
THAN THOSE REQUIRED BY TOWNSHIP CODE. SUBSURFACE BEDI DESIGNED TO MITIGATE THE
POST-DEVELOPMENT VOLUME WICKEASE DUE TO DEVELOPMENT, WATER QUALITY PILTERS DESIGNED TO
FILTER ALL SURFACE RUNOFF.

4. THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN HAS BEEN DESIGNED TO MEET THE FOLLOWING COALS AND QUIDELINES:

A. PRESERVE THE DITEORITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL AND CHEMICAL, QUALITIES OF RECEIVING STREAMS.

B. PREVENT AN INGRESS IN THE RATE OF STORMWHILE RUNGER.

C. MINIMIZE ANY INCRESS IN STORMWHILE RUNGER FOOLING.

B. MINIMIZE MAY INCRESS IN STORMWHILE RUNGER FOOLING.

B. MINIMIZE MAY INCRESS OF DOSTRIA OF DOSTRIA DRAINAGE FEATURING AND EQSTING VECETATION.

G. MINIMIZE LAND CLEARING AND GRADING.

G. MINIMIZE SOIL COMPARTING.

UTILIZE OTHER STRUCTURAL OR NONSTRUCTURAL BUP'S THAT PREVENT OR MINIMIZE CHANGES IN STORMWATER RUNGE.

THE RECEIVING WATER FOR THIS PROJECT IS RIDLEY CREEK. THE CHAPTER 93 CLASSIFICATION FOR THIS
WATERSHED IS HIGH QUAUTY—TROUT STOCKING FISHES (HQ—TSF).

6. THE OPERATOR SHALL REMOVE FROM THE SHE, RECYCLE, OR DISPOSE OF ALL BURLDING MATERIALS AND WASTES IN THE DEPONDER SHIPL THE DEPARTMENT'S SOLD WASTE MANAGEMENT REDRAINING AT 25 PA. CODE ZBOJ ET SEQ.
27.11 ET SEQ., AND 28.71 ET SEQ. THE CONTRACTOR SHALL HOT ILLEGALLY BURY, DUBY, OR DISCHARGE MAY
BERDRING MATERIAL OR MASTES AT THE SIDE. CONSTRUCTION MASTES WHIST RE-EXTED TO THE DEPART
PRACRICABLE, AND DISPOSAL METHODS MUST DOMPLY WITH FEDERAL, STATE, AND LOCAL REGURSEMENTS.

THE PERMITTEE SHALL PROVIDE ENGNEERING CONSTRUCTION OVERSIGHT FOR THE PROPOSED STORMWATER BMPS. A LICENSED PROFESSIONAL ENGNEER KNOWLEDGEABLE IN THE OMBIGN AND CONSTRUCTION OF STORMWATER BMPS. PREFERRALY THE DESIGN HONDERS, SHALL CONDUCT THE OVERSIGHT.

8. AS-BURT PLANS OF THE STORWMATER BMP'S SHALL BE PROVIDED WITHIN SIX MONTHS FOLLOWING THE COMPLETION OF EACH PHASE. THE AS-BUILT PLANS SHALL BE SIGNED AND SEALED BY A PA REGISTRED PROFESSIONAL ENGINEER.

9. A NOTICE OF TERMINATION (NOT) WILL BE REQUIRED TO BE SUBMITTED FOLLOWING APPROVAL OF THE FINAL AS-BUILT PILANS. PRIOR TO ACCEPTING THE NOT, THE OEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION TO ENSURE SITE STABILIZATION AND VERIFY ASEQUATE INSTALLATION AND FUNCTION OF STORMANIER BMP'S.

PCSM REPORTING AND RECORDKEEPING. THE PCSM PLAN, INSPECTION REPORTS AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

N. FINAL CRITIFICATION, THE PERUTIEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "FECOND DRAWINGS" WITH A FINAL CERIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS.

") (ULME) DID HEREBY CERTIFY PURSUANT TO THE PENALTIME OF 18 PAC. S.A. § 4904 TO THE BEST OF MY PROMEDIES, INFORMATION AND RELIEF, THAT THE ACCUMPANTING RECORD DRAWNISS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE THE AND CORRECT, AND ARE IN CONFORMACE WITH CHAPTER 102. OF THE RULES AND REGILATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH HE APPROVED FOSS IP 19M, ALL APPROVED.

(1) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED

(2) THE PERHITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWNGS AS A PART OF THE APPROVED PCSI PLAN TO THE PERSON IDENTIFIER IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TER OPERATION AND MANIFEMENT OF THE POSIS BUPS.

UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER § 102.22(A)(2) (RELATING TO PERMANENT STABILIZATION), AIID INSTALLATION OF BUPS IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH § 50.24 AND 102.8 (RELATING 10 EROSION AND SEDIMENT CONTROL RECUREXENTS: AND PCSM REQUIREMENTS), THE PERMATTEE OR CO-PERMITTEE SMALL SUBMIT A MOTICE OF TERMANATION TO THE UPPARTIMENT OR CONSERVATION DISTRICT.

THE NOTICE OF TERMINATION MUST INCLUDE:

(1) THE FACILITY ANALE, ADDRESS AND LOCATION.

(2) THE OPPTATOR NAME AND ADDRESS.

(3) THE PERMIT NUMBER OF THE PERMIT TERMINATION.

(4) THE PERMIT NUMBER OF THE PERMIT TERMINATION.

(5) BENTIFICATION OF THE PERSONS WHO HAVE ACREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPPRATION AND MANTEPHANCE OF THE POSIL SIMPS IN ACCORDANCE WITH \$102.0(M) AND PROOF OF COMPUNION.

PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION,

### GENERAL CONSERVATION NOTES AND SPECIFICATIONS.

HIENT OF CONSERVATION PROGRAM: THE INTENT OF THIS PROGRAM IS TO PREVENT ACCELERATED EROSORY OF THE EPPOSED SITE SOLLS DURING THE CONSTRUCTION AND PERMANENT LIFE PERMOS OF THE CONSTRUCTION SITE TO DEVELOPMENT. THE PROGRAM REQUIRES RETEXION OF ALL SEDIMENTS OF THE CONSTRUCTION SITE TO MANDAZE THE HUPACT OF DEVELOPMENT OF DEVELOPMENT. THE VARIOUS CONSTRUCTION. THE INTENT OF THIS PROGRAM SHOULD BE DEVELOPMENT. THE VARIOUS CONSTRUCTION THANKS SHOULD BE APPRIANCE OF THIS PROGRAM AND DIRECTION OF THE PROGRAM SHOULD BE SHOULD BE DEVELOPMENT. THE VARIOUS CONSTRUCTION THANKS SHOULD BE DIFFACES.

SURFACE STABILIZATION CRITERIA: ALL DISTURBED SOL SURFACES, INCLIDING SOL STOCKPLES, ARE SUBLECT TO EROSION AND SHALL BE STABILIZED ETHER TEMPORABILY OF PERMANDITLY, IMMEDIATELY DURING MON-FORMMAN TION PERSONS. MILLON MILIST BE APPLIED AT THE RECOMMENDED RATES, CRUSHED STONE ON PAYMANT SUBCRADES IS CONSIDERED ADEQUATE PROTECTION. ALL DISTURBED ZONES AND VEGETATED RECORDS SHALL BE STABILIZED. PREFERRALLY WHITA A PERMANNENT MEATURE OF

### CRITICAL VEGETATION AREAS (CVA)

CRITICAL VECETATION AREAS ARE TO BE GRADED, HYDROSEEVED, AND MALCHED WITHN 10 DAYS OF THE BEGINNING OF EXCAVATION. IN GENERAL, CRITICAL VEGETATION AREAS ARE DEFINED AS CUT SLOPES STEEPER THAN 31, ALL FILM SLOPES STEEPER THAN 31, ALL DRAWAGE SWALES.

### DISPOSAL AND RECYCLING

CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL DEMOLISHED OR UNUSED CONSTRUCTION MATERIALS. GARBAGE SHALL BE COLLECTED ON-STITE UNITE RETRIEVED BY AN APPROVED DISPOSAL OR RECUTLING COMPANY, CONTRACTOR SHALL NOT INCINERATE EXCESS MATERIALS.

LIKELY WASTE TO BE GENERATED AT THIS SITE:
- UNLSED CONCRETE TO BE PLACED IN CONCRETE WASHOUT AREAS;
- EXCESS SLT SOCK AND FENGING MATERIALS;
- GENERAL RUBBISH AND DEBRIS

THERMAL IMPACT.

SIGNARATE RIGHT FROM THE DRIVENAY AND PARKING AREAS DRAIN TO A SUBSURFACE INFLITRATION BED AND UNDERFOROUND STORM DRAIN FPES. THEREFORE, THE INITIAL RUNOFF THAT IS MOST LIKELY TO WARRER IS SENT INDERFROUND AND NOT DISCHARGED TO THE WATERCOURSE. FURTHER, THE REDUCTION OF PRIPERVIOUS SURFACES LESSENS THE POREWIND. OF THERMAL LUPACIS. WATER HAS TIME TO COOL, PRIOR TO FAMING THE SITE AND DRAINING TO THE WATER COURSE.

### SPECIAL GEOLOGIC AND SOIL CONDITIONS

NO SPECIAL SOIL OR GEOLOGICAL ISSUES ARE KNOWN.

### POST CONSTRUCTION STORMWATER MANAGEMENT (PCSWM) LONG-TERM OPERATIONS AND MAINTENANCE REQUIREMENTS

UIII. THE FRONTILE OR CO-PERMITTE HAS RECENTED MERITED APPROVAL FOR A DRILL OF TEMPORADO, THE POWERTES OR CO-PERMITTE HAS RELAND RESPONSIBLE FOR TOWNLANCE WITH THE FEBRIT TEMPORADO CONDITIONS REQUIRED LOW-TEMPO PERMITTED AND MAINTENANCE OF ALL PCSMM DMPs ON THE PROJECT SITE. AND IS RESPONSIBLE FOR WOLATIONS OCCURRENCY OF THE PROJECT SITE.

THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSYM BUPE UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSNM BUPE.

FOR ANY PROPERTY CONTAINING A PCSMIX BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WHAT THE RECORDER OF DEEDS WHICH WILL ASSIRE DISCLOSINE OF THE PCSMIX BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A THLE STARCH OF THE SUB-SCI PROPERTY. HE RECORDED INSTRUMENT MUST DENTRY THE PCSMIX BMP, AND PROVIDE FOR MIXESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSMIX BMP, AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSMIX BMP SHAD PROVIDE POINTENANCE OF THE PCSMIX BMP SHAD FOR THE LAND THAT IS BINDING UPON AND EMPORCEABLE BY THE SUBSCIDENT CRANTEES, AND PROVIDE PROOF OF FALING WITH THE NOTICE OF TERMINATION UNDER § 102.7(b)(6) (RELATING TO PERMIT TERMINATION).

THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MANTENANCE MAY BEHER INTO AN AGREEMENT WITH ANOTHER PERSON MICLIDING A CHUSENYARION DISTRICT, NORPROFFI TORANIZATION, MUNICIPALITY, AUTHORITY PERSON, TO REMOVED IN REPOSTORY OF PERSON, TO REMOVED IN REPOSTORY OF PERSON, TO REMOVED IN REPOSTORY OF PERSON, TO THE PERSON AND MANTENANCE AND PROVIDE NOTICE THEREOF TO THE OPPORTUDING THE PROPERTY.

A PERMITTEE OR CO-PERMITTEE THAT FALS TO TRANSER LONG-TERM OPERATION AND MAINTENANCE OF THE POSINH BUY OR OTHERWISE FALS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE POSINH BUR'S LOCATED ON THE

. N THE EVENT THAT THE BMP IS NOT FUNCTIONING PROPERLY, THE PERSON RESPONSIBLE FOR PERFORMING LONG-YERM OPERATION AND MANTEMANCE SHALL BE REQUIRED TO REPAIR OR REPLACE THE BMP TO ENSURE FUNCTION AND OPERATION.

. THE PERMITTEE SHALL BE REQUIRED TO SUBMIT A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES TO THE TOWNSHIP, CONSERVATION DISTRICT, AND THE DEPARTMENT UPON REQUEST.

### BMP\_FAILURE\_NOTES\_(PER\_PROTOCOJ=2-OF-THE-BMP

THE TERM "FARURE" FOR THE PROPOSED SUBSURFACE BED SHALL BE DEFINED

1) THE LOSS OF FUNCTIONALITY OF THE PROPOSED OUTLET STRUCTURE OR DISCHARGE PIPE 2) THE LOSS OF SIRUCTURAL INTEGRITY OF THE STONE AND PIPES 3) THE ACCUMULATION OF SEDIMENT, TRASH OR DEBRIS IN PERIMETER DRAWAGE STRUCTURES.

4) STANDING WATER IS OBSERVED IN THE BASIN AFTER 72 HOURS

THE PERMITTEE SHALL MAKE THE NECESSARY REPAIRS TO THE OUTLET STRUCTURE. DISCHARGE PIPMS, STORIE, AND PERFORATED PIPE AS NEEDED, IF STANDING WATER IS OBSERVED AFTER 72 HOURS, CONSULT ENGINEER FOR RELIEDIATION OF THE UNDERGROUND BED.

THE TERM "FALURE" FOR THE PROPOSED WATER QUALITY INLETS (FILTER INSERTS) SHALL BE DEFINED AS:

1) DISCOVER EMPORICE OF DAMAGED FILTER MEDIA

2) DISCOVER EMPORICE OF THE FILTER MEDIA'S INASILITY TO SUPPORT ACCIDILALIZED S

THE PERMITTEE SHALL REPAIR BMP FAILURE BY REPLACING THE FILTER MEDIA IN ACCORDANCE WITH THE MARKFACTURERS SPECIFICATIONS.

### POST\_CONSTRUCTION\_STORMWATER\_MANAGEMENT REPORTING\_AND\_RECORD\_KEEPING.

A WHITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPOARI AND MAINTENANCE ACTIVITIES MUST BE PROVIDED AS PART OF THE LONG—TERM OPERATION AND MAINTENANCE PROGRAM.

THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN, INSPECTION REPORTS, AND MONITORING RECORDS SHALL, BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSENVATION DISTRICT.

### WATER\_QUALITY\_INLETS\_(FILTER\_INSERTS).

IT SHALL BE THE SOLE RESPONSIBILITY OF THE <u>PROPERTY OWNER</u> TO MAINTAIN ALL WATER QUALITY INIETS ON SITE.

INSPECTION RECHIREMENTS

1. WATER QUALITY INSET INSERTS SHOULD BE INSPECTED THREE TIMES PER

A. DURING THE THREE ROUTINE INSPECTIONS, THE FILTER MEDIA SHALL BE

B. ONE REGULAR CHANGE AND DISPOSAL OF THE FR. TER MEDIA SHALL OCCUR DURING THE CALENDAR YEAR AS WELL.

BMP FAILURE 1. BMP FAILURE IS DEFINIOD AS DISCOVERING EVIDENCE OF TORN FILTER FAGRIC OR FILTER MEDIA INABILITY TO SUPPORT ACCUMULATED SEDIMENT

2. RIMPAIR BMP FAILURE BY REPLACING THE FILTER MEDIA IN ACCORDANCE WITH THE MANIFACTURERS SPECIFICATIONS.

GENERAL -MAINTENANCE NOTES

1. WATER QUALITY INLET INSERTS SHALL BE CHECKED TO ENSURE THEY ARE SECURELY FASTENED DURING EACH INSPECTION. RECOMMENDED MAINTENANCE IS PERFORMED INCLUDING REMOVAL AND DISPOSAL OF THE FILTER MEDIA OR EXCESS MATERIAL BY PERSONNEL.

DISPOSAL OF REMOVED MAIERIAL WILL DEPEND ON THE NATURE OF THE DRAINAGE AREA AND THE INTENT AND FUNCTION OF THE WATER QUALITY

2. MATERIAL REMOVED FROM WATER QUALITY INSERTS THAT SERVE "HOT SPOTS" SUCH AS FIELING STATIONS THAT RECEIVE A LARGE AUQUINT OF DERRIS SEMALO BE HANDLING ACCORDING TO DEP REQUIATIONS FOR THAT TYPE OF SOLD WASTE, SUCH AS A LANGRILL THAT IS APPROVED BY DEP TO ACCEPT SOLD WASTE, SUCH AS A LANGRILL THAT IS APPROVED BY DEP TO ACCEPT SOLD WASTE. WATER QUALITY INSERTS THAT PRIMARY CATION SEDIMENT AND DETRITUS FROM AREAS SUCH AS LAWNS MAY REUSE THE WASTE ON SITE.

### CONSTRUCTION SEQUENCE . REMOVE THE GRATE OF THE INSTALLED INLET AND SET IT TO THE SIDE.

2. REMOVE DEBRIS AND LITTER FROM THE INLET.

3. CLEAN OFF THE GRATE BEARING LEDGE.

4. LOWER THE FILTER ASSEMBLY INTO THE INLET UNTIL THE ASSEMBLYS SUPPORT FLANGES REST ON THE CRATE BEARING LEDGE.

5. INSURE THAT THE FOUR FILTER MEDIUM CARTRIDGES ARE ATTACHED TO THE DIFFINGS IN THE BOTTOM CORNERS OF THE FILTER ASSEMBLY.

### CRITICAL STAGE OF CONSTRUCTION CONTACT ENGINEER TO MEMFY INSTALLATION OF WATER COLATIFY INSERTS

### SUBSURFACE INFILTRATION-BED-(SWM-#100). IT SHALL BE THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM(S).

SPECIFICATIONS.

1. AGGREGATE: AGGREGATE FOR BEDS SHALL BE 3/6 INCH TO 3/4 INCH UNIFORMLY GRADED COARSE AGGREGATE. AASHTO NUMBER 57 PER TABLE 4. AASHTO SPECIFICATIONS, PART 1, 13th ED, 1098 (P. 47).

NON-WOVEN GEOTEXTILE: SHALL CONSIST OF NEEDLED NON-WOVEN POLYPROPHIDE HIBERS AND MEET THE FOLIONING PROPERTIES.

G. GRAB TEMSLE STRENGTH (ASTN-D4532):

D. MULDH BIRRST STRENGTH (ASTN-D4532):

F. LOW RATE (ASTN-D4491):

G. FLOW RATE (ASTN-D4491):

H. VA RESISTANCE AFTER 500 HOURS (ASTN-D4355 X):

H. VA RESISTANCE AFTER 500 HOURS (ASTN-D4355 X):

H. VAT-SET OR HEAT-CALEMDARD FABRICS ARE NOT FERMITTED.
ACCEPTABLE TYPES INCLIDE MIRATI 140N, AMOCO 4547, AND
GEOTEX 451. 11ES; 120 LBS. 225 PSL 95 GPM/FT<sup>2</sup>

STORAGE PIPE: SHALL BE CONTINUOUSLY PERFORATED, SMOOTH INTERIOR HIGH-DENSITY POLYCTHYLENE (HOPE) PIPE SHALL MEET AASHIO M252.
 TYPE S OR AASHIO M284, IYPE S.

NSPECTION REQUIREMENTS

L ALL STORMATER MANAGEMENT SYSTEMS SHALL BE INSPECTED ANNIALLY
OR AFER ACH RAINF ALL EVENT IN EXCESS OF TWO (2") NICHES (MAJOR
STORM EVENT), FOR TRASH AND DEBRIS; ANY DISCOVERED TRASH OR
DEBRIS SHALL BE REMOVED BIMEDATELY.

### CENTERS' MAINTENANCE HOTES 1. ACCESS FOR YEARING OR VACUUMING IS PROVIDED THROUGH OBSERVATION PORTS AND STORM MAINCLES.

2. REMOVE SEDIMENT/TRASH/DEBRIS FROM PERIMETER ORANAGE STRUCTURES AND OUTLET STRUCTURE.

THE OVERLYING VINGETATION OF SUBSURFACE INFILITRATION FEATURES SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVENETATED AS SOON AS POSSIBLE.

YCHICULAR ACCESS OR SUBSIRFACE INFLITATION AREAS SHOULD BE PROHIBITED IN LURAYED AREAS, AND CARE SHOULD BE TAKEN TO AVXID EXCESSIVE COMPACTION BY MOMERS. IF CONTINUAL ACCESS INSEED, USE OF PERMEABLE, TURF REINFORCEMENT SHOULD BE CONSIDERED.

CONTACT QUALIFIED ENGINEER IMMEDIATELY AFTER DISCOVERY OF SINKHOLE OCCURRENCE. SINKHOLE SHOULD BE PROMPTLY AND PROPERLY

### TRUCTION SECUENCE. INSTALL AND MAINTAIN ADEQUATE EROSION AND SEDMENT CONTROL MEASURES DURING CONSTRUCTION.

2. INSTALL CONSTRUCTION FERCING AROUND PERIMETER OF INFILLINATION AREA TO PREVENT CONSTRUCTION TRAFFIC FROM COMPACTING EXISTING SURGRAPS AREA TO THE TRAFFIC FROM COMPACTING EXISTING TRAFFIC FROM COMPACTING TRAFFIC FROM COMPACTING TRAFFIC FROM COMPACTION TO THE TRAFFIC FROM COMPACTION TO THE TRAFFIC FROM COMPACTING TRAFFIC FROM COMPACTION TO THE TRAFFIC FROM THE TRAFF

INSTALL UPSTREAM AND DOWNSTREAM CONTROL STRUCTURES, CLEANOUTS STORAGE PIPE, AND ALL OTHER NECESSARY STORMWATER STRUCTURES.

CRITICAL STAGE OF CONSTRUCTION CONTACT ENGINEER PRIOR TO PLACEMENT OF CROTEXITY. SOCIETY STATES THE PRES. AND BED AGREGATE FOR HOULD BE PLACED MANDHALLY AFTER APPROVAL OF SUB-CRICE PREPARATION AND INSTALLATION OF STRUCTURES, SCIPTICAL STANDARD STANDARD THAT STANDARD THAT STANDARD STANDARD THAT S

5. CLEAN-WASHED, UNIFORMLY GRADED AGGREGATE SHOULD BE PLACED IN THE BED IN MAXIMUM B-HICH UFTS. EACH LAYER SHOULD BE LIGHTLY COMPACTED, WITH CONSTRUCTION EQUIPMENT KEPT OFF THE BED BOTTOM

APPROVED SOIL MEDIA OR PAYEMENT BASE COURSES SHOULD BE PLACED OVER DETENTION BED IN MAXIMUM 8-INCH LIFTS, SEED AND STABILIZE AREA IF APPLICABILE.

DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS SULLY SYARRIZED.

STORM-SEWER.
INSPECTION RECORDEDITS

1. ALL STORM COLLECTION STRUCTURES SHALL BE INSPECTED ANNUALLY, "OR
AFTER EACH RABIFALL EVENT IN EXCESS OF TWO (2") INCHES (MAJOR
STORM EVENT), FOR TRASH, DEBRIS OR EMDENCE OF PIPE LEAKAGE OR
SACGING, REMOVE TRASH OR DEBRIS MALEDIATELY, IMMEDIATELY REPAIR
OR REPLACE LEAVING/SACONG DRAINAGE FEATURES.

OF REPLACE LEARNING SAGNING DIGNINGS: FALLOWS.

GENERAL MINIECANICE ON DIES:

1. ACCESS CAN BE GANNED TO EACH COLLECTION STRUCTURE THROUGH THE REMOVABLE INLET GRAT EOR MANIHOLE LID. STEEL OR DTHER APPROVED RINGS HAVE BEEN INSTALLED ON THE INSDE OF EACH STRUCTURE OWER FOR THE LEFT FOR ANY INCESSARY ENTRY. CRATES AND LOS SHALL CONTACT DESIGN ENGINEERS MANUFACTURE OF THE STATE OF THE CONTACT DESIGN ENGINEERS MANUFACTURE STORT OF THE CONTACT OF SIGN ENGINEERS MANUFACTURE SHOULD BE PROMPTLY AND PROPERLY REPAIRED.

3. IF SEDMENT/TRASH/DEBIRS IS FOUND IN THE CONNEYMICE SYSTEM, THE SYSTEM SHALL BE LETTED AND VACUUMENT OR REMOVE ALL SEDMENT/TRASH/DEBIRS AND DISPOSED OF APPROPRIATELY.

4. REPER TO WAITER CAULITY INCET MANIFEMANCE CONDITIONS OF A ADMINISTRATION OF THE STATEM OF THE PROPERTY OF A MAINE GUALITY INCET MANIFEMANCE CONDITIONS OF A MAINE GUALITY INCET MANIFEMANCE CONDITIONS WITH WATER COUNTY APPARATOR INSTALLED.

### CRITICAL-STAGES OF CONSTRUCTION.

A DICENSED ENGINEER OF HIS DESIGNEE SHALL BE PRESENT TO COSERVE AND VERIFY RISTALLATION AND CONSTRUCTION OF THE POSINI PLAN AT THE FOLLOWING CRITICAL

1. EXCAVATION AND FRIAL GRACING OF SWA (100). 2. PLACEMENT OF GEOTEXTICE FABRIC, STONE AND DISTRIBUTION PIPE INSIDE SWA HISTALLATION OF WATER QUALITY RALES FACIERS.

FOLLOWING CONSTRUCTION, ENGREER TO VERBY THAT ALL POSM BMP'S ARE HISTALLED, FUNCTIONING, AND HAVE NOT BEEN INPACTED BY CONSTRUCTION

PRELIMINARY/FINAL OPERATIONS AND MAINTENANCE PLAN

	n	
_		
2	10/05/22	PER TOWNSHIP ENGINEER COMMENTS
1	03/25/22	PRICING SET
NO.	DATE	MANAGON

APPLEBROOK GOLF CLUB **TURF MAINTENANCE AREA** 

EAST GOSHEN TOWNSHIP - CHESTER COUNTY - PENNSYLVANI ChesterValley

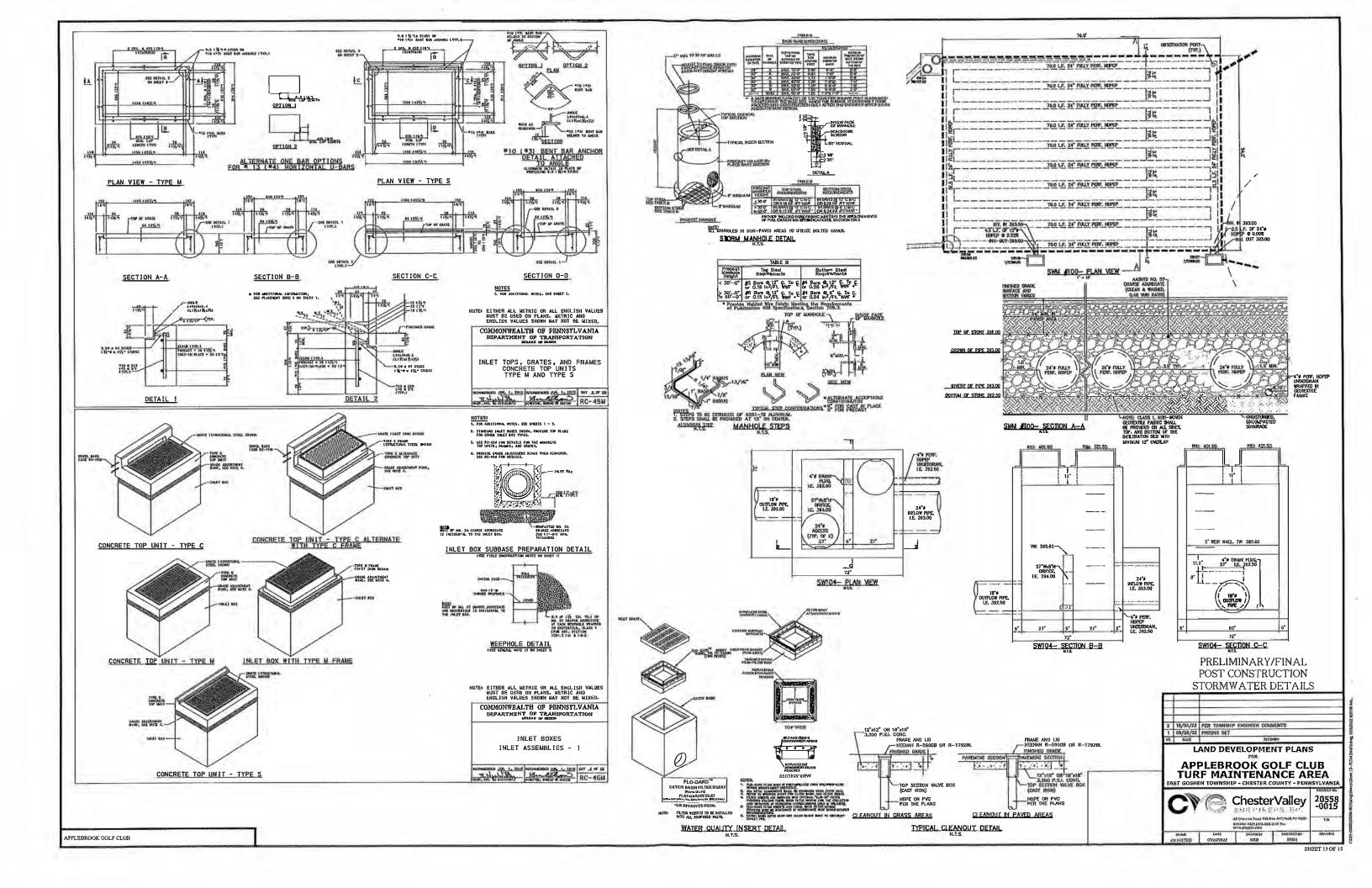
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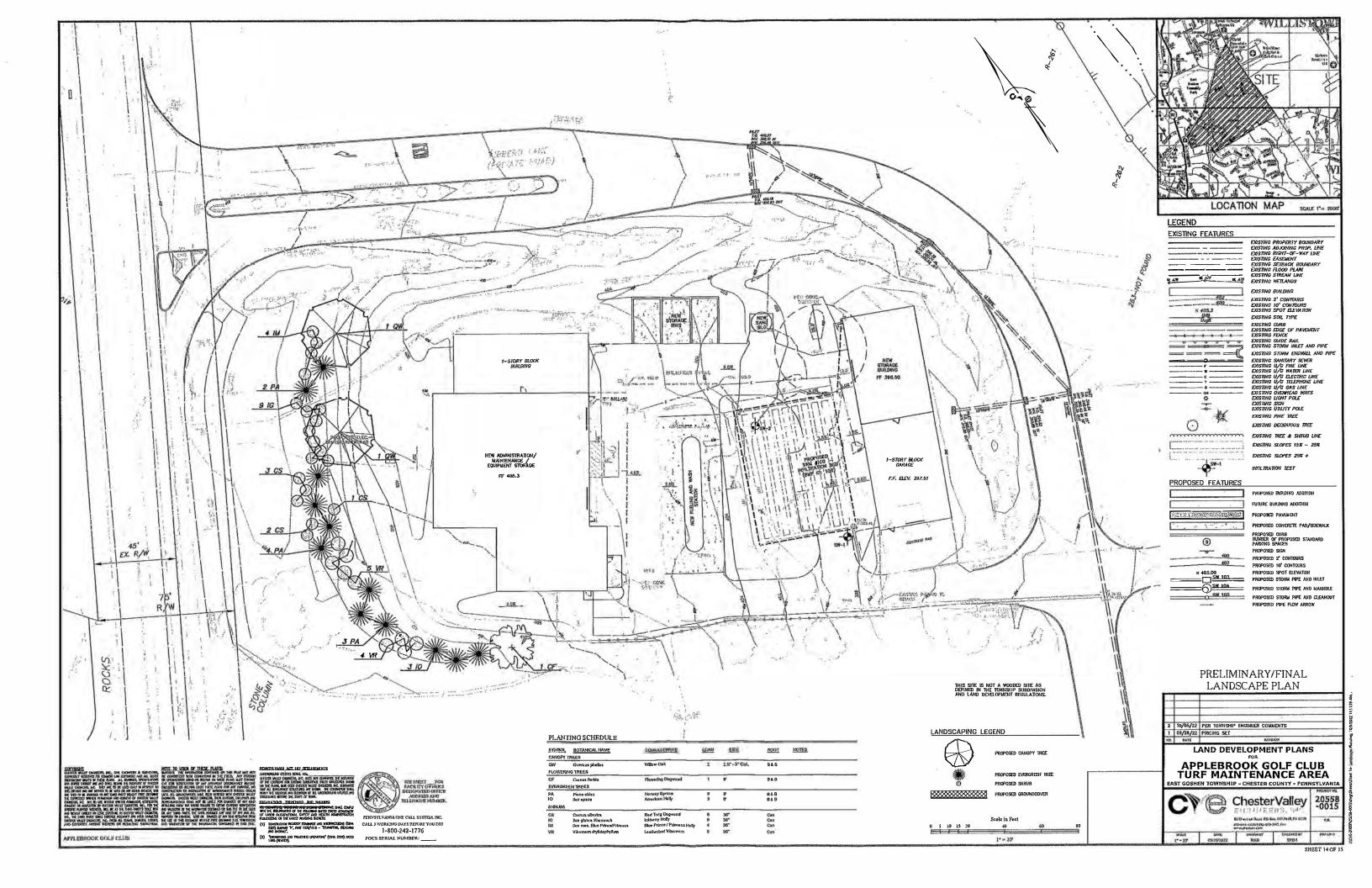
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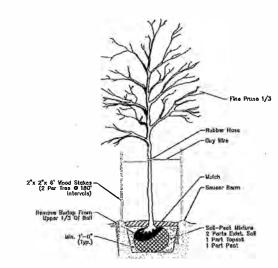
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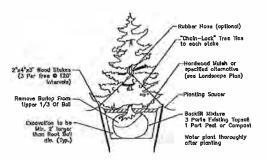


### PLANTING NOTES

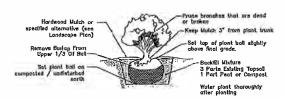
- This Landscope Pion is intended to be used for landscoping purposes only.
- Londscape contractor shall inspect the site and become familiar with the planting area prior to the installation of any plant material.
- Piont moterial quantities listed for the convenience of the Contractor. Actual numbers of symbols shall take precedence over quantities listed in cases of conflict.
- The Landscope Contractor is responsible for supplying all materials, supplies, equipment and lobar required to install the landscoping shown on these plans.
- 5. All plant material subject to approved by the Owner or Owners representative prior to installation. Plant material shall be nursery grown locally, freshly day, shall be free of discose and pasts, and shall be full and self-shoped. Any material found to be unacceptable shall be replaced with acceptable material at ne cast to the owner.
- The Contractor shall advise the Londscope Architect and/or Owner in writing of any proposed substitutions for the plant material specified and these substitutions shall be sub-part to the approval by the Londscope Architect and/or Owner prior to installation.
- Plant moterial and installation shall be in accordance with the American Standard for Nursery Stock of the American Association of Nurserymen (as but ravised) and with the general planting specifications of the municipality.
- All plant material shall be of the minknum size noted on the plane. Plant material shall be measured in accordance with the American Standard for Nursery Stock as last schaed.
- All areas to be londscoped, specially next to building areas, shall be executed of all building meterds, debries and poor sole to a relationum depth of 122-115 and beckfiled with a good, medium textured plonting soil. All lam areas shall have a minimum of 4-5° of topool agreed prior to seeding or exclude as may be specified. Areas adjacent to curbs and wake shall be crowned a minimum of 4\* higher than the top of curb or walk to allow for satisfied, however faishind grade furnacionally allowed to the statistics, however faishind grade furnacionally allowed to the surface of any matching or sad to be even with the top of curb or walk.
- All borders between lawn ereas and planting beds shall not have adoing unless atherwise noted on the plane.
- Compacted existing solls shall be remediated with soil additives or soil replacement prior to planting.
- 2. See Tree Planting Details for tree planting, staking and guying directions. See Shout Planting betails for shout planting destinate.
- 13. Remove all twins and wire from tree and shrub root balls. Remove all non-root burden and twins from all plant material prior to planting. Unlied to their and of burden from the trunk of the plant material and drops down the root ball or remove from plant. Remove oil plant continhers prior to planting.
- 14. Prune oil plant material after planting in accordance with the American Association of Nurseymen standards. Fine prune oil plants to shops, but do not disfigure plant material. Prune oil dead branches from plant material.
- 15. Limb deciduous, high compy (shads) trees to 6' obove grade,
- 16. All plontings shall be installed in the locations shown on the Londecape Plane. Mileor edystments for field conditions amy be reached. Significant objectments needs to be approved by the Owner prior to planting.
- 7. Canopy trees to be placed a minimum of 30" from paved areas
- 18. Contractor shall final grade all planting areas and barms as necessary prior to the installation of the plant material unless final grading is to be performed by others. Regardless, planting areas shall be fine raked smooth and even after the installation of the plant material and prior to multiding. No plant material shall be installed and no raking shall occur if the sols are saturated or muldiy.
- 19. Frees and shrubs to be planted slightly higher (2" max.) than the grade that the plants were grown at the nursery (roughly the top of the root ball). Contractor is responsible for plant installation to the gruper height.
- 20. Trees and shrubs shall not be plented over any underground utility, nor within any underground utility evament (maintum of 10 from the center of the pipe). Contractor shall verify location of all underground utilities prior to storting work.
- 21. Trees planted in lown areas to be mulched with a ring a minimum of 2° wide with a minimum of 3° of mulch unless otherwise noted or required for tree protection. Shrub bads to be mulched to a minimum depth of 3°.
- 22. Shrub groupings shown on the Londscape plans shall be planted as a engle bed.
- Mulch to be shredded hardwood back. Prior to installation of the mulch, spread a pre-emergiant harbicide.
- 24. Plant moterial shall be installed the same day as it is delivered to the site to the extent practical. Any plant moterial the is not planted the same day it arrives shall be protected from drying out by the Contractor until it can be planted.
- 25. Contractor shall thanoughly water all moterial planted at the and of each day.
- 26. Contractor shall apply anti-desicont to plant material for late summer and fail plantings.
- 27. Upon completion of planting and mulching and at the end of cosh day, Contractor shall remove all extraneous material and debis, broom excep and wash the area clean,
- 28. Contractor shall guarantee oil pient moterial for a period of 2 years from the date of acceptance by the Oense. All plant moterial that does not survive the guarantee period shall be replaced by the Contractor. Dead plants shall be replaced no later than the next planting season.
- 29. Contractor shall notify the Owner upon the completion of the gaucantee period and schedule of final inspection of the plant material and lown cross. At or before the final inspection, Contractor shall remove only remaining tree clokes and pruna the plant material as needed unless otherwise directed by the Owner.
- 30. All areas disturbed by construction activities that are not shown to be planting beds on the tandseape Piace, shall be seeded as lown areas per the seeding specifications on these plans.
- Contractor shall provide all topsol, fortilizers and other additives as required unless athernitis directed by the Owner. All materials used shall be as specified or better.
- 32. Contractor shall be responsible for the mointenance of the plant material unit such time as the project to occapied by the Organ. Mointenance abuil include, but is not limited to, watering, fertilizing, pruning, making and weeding.
- 33. Contractor sholl provide the Owner with written instructions regarding the core of the plant motorial and any special arcumetances.



TYPICAL DECIDUOUS TREE PLANTING



TYPICAL EVERGREEN TREE PLANTING



TYPICAL SHRUB PLANTING

### PRELIMINARY/FINAL LANDSCAPE DETAILS

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