



PUBLIC NOTICE

U.S. Army Corps
of Engineers

New York District, CENAN-OP-RU

Upstate Regulatory Field Office

1 Buffington Street, Bldg. 10, 3rd Fl. North

Watervliet, New York 12189-4000

In replying refer to:

Public Notice Number: NAN-2018-00568-UDA

Issue Date: March 10, 2022

Expiration Date: April 9, 2022

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S. C. 1344).

APPLICANT: William J. Cade
195 Hilton Road
Slingerlands, New York 12159

ACTIVITY: Discharge of fill material into waters of the United States to facilitate the construction of a residential subdivision and attendant features

WATERWAY: Wetlands (Hudson River Watershed)

LOCATION: Town of Bethlehem, Albany County, New York

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO THE ATTENTION OF ANDREW DANGLER AT THE ABOVE ADDRESS, OR SENT VIA ELECTRONIC MAIL TO Andrew.C.Dangler@usace.army.mil, TO REACH THIS OFFICE BY THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity. Due to COVID-19, and the limited in-office mail processing procedures, it is highly recommended that comments be sent by Electronic Mail only to prevent delays.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

Based upon a review of the GIS resources map on the N.Y.S. Office of Parks, Recreation and Historic Preservation (SHPO) website, the project site is located within areas identified by the SHPO as "Archeo Sensitive Areas". Further consultation with SHPO regarding these "Archeo Sensitive Areas" is being conducted and will be concluded prior to the final decision.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

In addition to any required water quality certificate, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation Stormwater Permit
- Local building permit from the Town of Bethlehem

In order for us to better serve you, please complete our Customer Service Survey located at:

<http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact Andrew Dangler of this office at (518) 266-6356 or Andrew.C.Dangler@usace.army.mil.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>

A handwritten signature in black ink, reading "Amy L. Gitchell". The signature is fluid and cursive, with the first name "Amy" and last name "Gitchell" clearly legible.

FOR AND ON BEHALF OF
Stephan A. Ryba
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

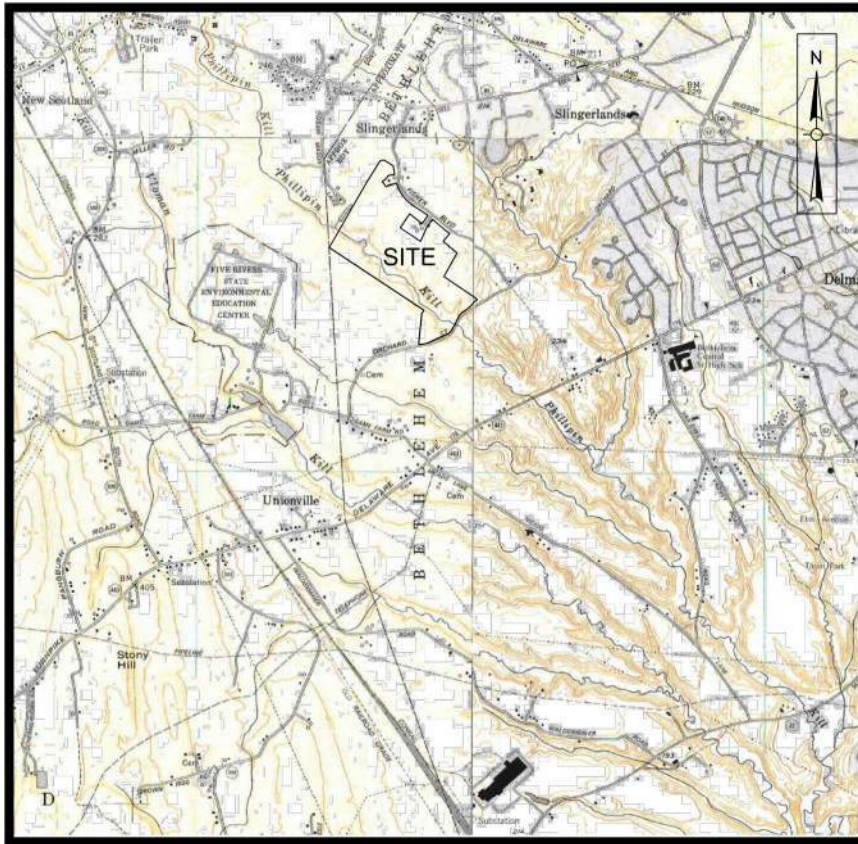
The applicant, William Cade, has requested Department of the Army authorization for the discharge of fill material into approximately 0.60 acres of waters of the United States, including wetlands to facilitate the construction of a PDD residential subdivision and attendant features to be known as "Phillipin Kill Manor". The project is located at 75 Fisher Boulevard, in the Town of Bethlehem, Albany County, New York.

The work would involve the construction of a 50-lot residential development and attendant features consisting of 36 town homes, 6 single-family home lots, and 8 estate lots, and the associated roads, utilities, and stormwater facilities. The proposed project would result in the permanent impacts to approximately 0.076 acres of emergent wetland, 0.42 acres of scrub-shrub wetland, 0.10 acres of forested wetland, and 150 linear feet of ephemeral stream channel. In addition to the proposed 0.60 acres of wetland impact, approximately 1.41 acres of unauthorized wetland impacts have occurred at the project site and are being reviewed cumulatively with the currently proposed impacts.

The applicant has stated that they have avoided and minimized proposed impacts to the maximum extent practicable by limiting construction to the smallest area practicable, including designing the layout of the houses and attendant features to limit impacts to waters of the United States. As mitigation for the proposed impacts to waters of the United States, the applicant has proposed to establish 2.57 acres of palustrine forested/scrub-shrub wetlands, secure a restrictive covenant over the 8.5 acres of land comprised of the wetland mitigation sites, existing wetland, and upland buffer. In addition, the applicant proposes to secure a conservation easement over 28.68 acres of riparian corridor which contains approximately 3,800 linear feet of stream channel.

The stated purpose of this project is to construct a PDD residential development and attendant features within the Town of Bethlehem.

PHILLIPIN KILL MAJOR

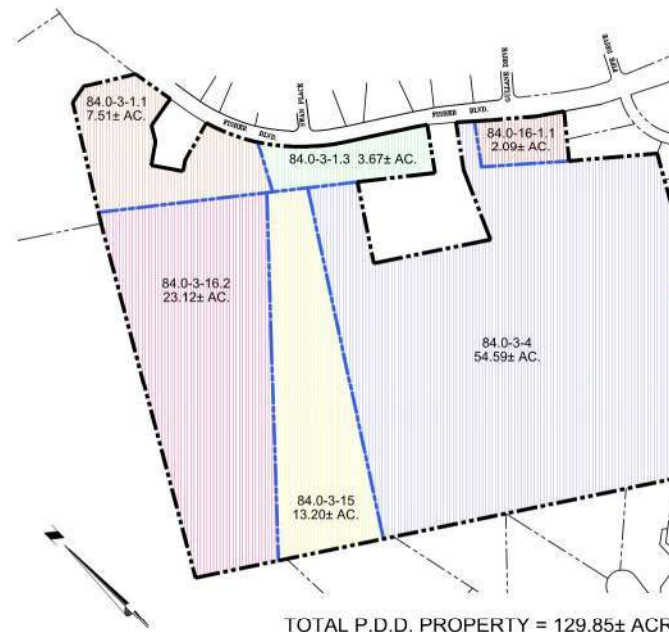


VICINITY MAP
SCALE: 1"=1000'

Matchline Sheet 1B

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BETH-3	TOWN OF BETHLEHEM STANDARD DETAILS
BETH-4	TOWN OF BETHLEHEM STANDARD DETAILS
DEC-1	DEC CONVEYANCE



TOTAL P.D.D. PROPERTY = 129.85± AC.

1 EXISTING TAX MAP PARCELS
SCALE: BAR SCALE

PHILLIPIN KILL MANOR MAJOR SUBDIVISION

ADOPTED TOWN BOARD RESOLUTION NO. 23, DATED MAY 26, 2010

TOWN OF BETHLEHEM, ALBANY COUNTY NEW YORK

Matchline Sheet 1A

MARCH 30, 2018

LAST REVISED : September 13, 2021

Weston & SampsonSM
PE, LS, LA, PC

1 Winners Circle, Suite 130,
Albany, New York 12205

Tel:(518) 463-4400
(800) SAMPSON

www.westonandsampson.com



Planning Board
HTE 16-00400001

Albany County DOH

SHEET G-1

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SAFETY NOTES

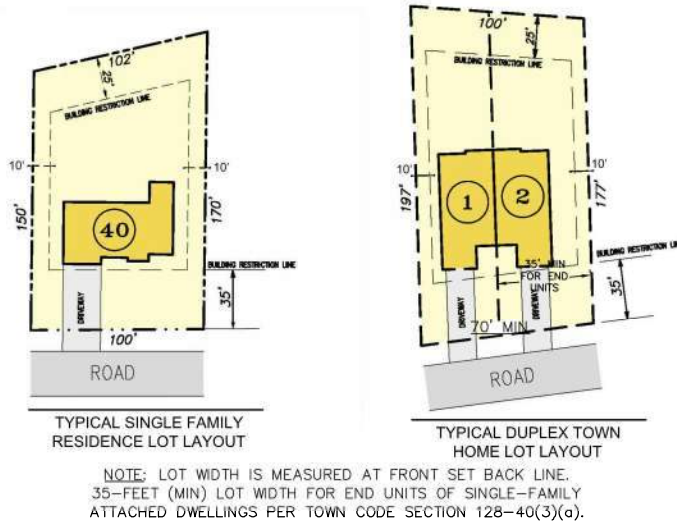
- CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL WORK SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE, INJURY OR LOSS TO:
 - ALL EMPLOYEES ON THE WORK SITE AND OTHER PERSONS WHO MAY BE AFFECTED THEREBY.
 - ALL THE WORK AND ALL THE MATERIALS OR EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE.
 - OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS (INCLUDING O.S.H.A. REGULATIONS) OF ANY PUBLIC BODY HAVING JURISDICTION OVER THE SAFETY OF PERSONS OR PROPERTY ON THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY OWNERS OF ADJACENT PROPERTY AND UTILITIES WHEN EXECUTION OF WORK WILL AFFECT THEM.
- THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETED.
- AT THE CLOSE OF EACH WORK DAY THE CONTRACTOR SHALL BACKFILL, OR ADEQUATELY BARRICADE, ALL OPEN TRENCHES OR OTHER PERCEIVED HAZARDS TO PROTECT THE PUBLIC.

DEMOLITION NOTES

- UNLESS OTHERWISE NOTED, THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL FELLED TREES, CUT BRUSH, DEMOLISHED CONCRETE, ASPHALT, PIPING, EQUIPMENT AND BUILDING MATERIALS.
- THE CONTRACTOR SHALL CALL **Dig Safe®** AT **811** OR **888-DIG-SAFE** AT LEAST 48 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION.

SLOPE STABILITY NOTES

- EXCEPT AS NOTED IN DENTE ENGINEERING'S MARCH 20TH, 2020 SLOPE STABILITY REPORT, FILL SHOULD NOT BE PLACED DOWNSLOPE FROM THE SLOPE SETBACK LINES.
- EXCEPT AS NOTED IN DENTE ENGINEERING'S MARCH 20TH, 2020 SLOPE STABILITY REPORT, VEGETATION SHOULD NOT BE REMOVED, AND THE SLOPES SHOULD NOT OTHERWISE BE DISTURBED DOWNSLOPE FROM THE SLOPE SETBACK LINES UNLESS REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- FILL MAY BE PLACED UPSLOPE FROM THE SLOPE SETBACK LINES AT A MAXIMUM INCLINATION OF 1V:4H.



PROJECT INFORMATION

ADDRESS	75 FISHER BOULEVARD SLINGERLANDS, NY 12159
TAX MAP NUMBERS (7 PARCELS)	PARCEL 1 = 84.0-3-1.1 PARCEL 2 = 84.0-3-1.3 PARCEL 3 = 84.0-16-1.1 PARCEL 4 = 84.0-3-16.2 PARCEL 5 = 84.0-3-15 PARCEL 6 = 84.0-3-4 PARCEL 7 = 84.0-3-11.2
SITE COORDINATES (UTM - UNIVERSAL TRANSVERSE MERCATOR)	N 4,807,726 E 605,642
TOTAL PROJECT AREA	129.85± ACRES
ZONE DISTRICT AREA	PLANNED DEVELOPMENT DISTRICT
EXISTING USE	EXISTING SINGLE-FAMILY STRUCTURES AND REMAINING LAND UNDEVELOPED
PROPOSED USE	(6) SINGLE FAMILY LOT (8) ESTATE LOTS (36) TOWNHOME UNITS
PARCEL FRONTAGE	1752± LF ALONG FISHER BOULEVARD 1778± LF ALONG ORCHARD STREET
WATER SUPPLY	TOWN OF BETHLEHEM
SANITARY SERVICE	BETHLEHEM SEWER DISTRICT
FIRE PROTECTION	BETHLEHEM FIRE DEPARTMENT
SCHOOL DISTRICT	BETHLEHEM SCHOOL DISTRICT

SITE STATISTICS

* INCLUDES PAVEMENTS AND STRUCTURES

ENTITY	CARRINGTON COURT	PRESTWICK DRIVE	FISHER BOULEVARD	ORCHARD STREET	TOTAL
# OF STRUCTURES	36 TOWNHOMES	6 SINGLE FAMILY LOTS	1 ESTATE LOT	7 ESTATE LOTS	50 UNITS
IMPERVIOUS*	3.65± ACRES	0.92± ACRES	0.45± ACRES	1.15± ACRES	6.17± ACRES
GREEN	13.49± ACRES	6.96± ACRES	4.88± ACRES	13.98± ACRES	39.31± ACRES
TOTAL	17.14± ACRES	7.88± ACRES	5.22± ACRES	15.13± ACRES	42.35± ACRES
WETLAND IMPACT	0.37± ACRES	0.10± ACRES	0.13± ACRES	0.0± ACRES	0.60± ACRES
	AREA A 670± S.F. (0.015± ACRES)	AREA D 850± S.F. (0.02± ACRES)	AREA F 1100± S.F. (0.025± ACRES)		
	AREA B 15270± S.F. (0.35± ACRES)	AREA E 3272± S.F. (0.08± ACRES)	AREA G 2660± S.F. (0.061± ACRES)		
	AREA C 275± S.F. (0.006± ACRES)		AREA H 1770± S.F. (0.04± ACRES)		

EPHEMERAL STREAM IMPACTS (L.F.)

A - PRESTWICK DRIVE - 150+/- L.F.
TOTAL IMPACTS - 150+/- L.F.

Matchline Sheet 2A

CONSTRUCTION NOTES

1. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
2. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND GRADING LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
3. UNLESS OTHERWISE INDICATED, NEW CONCRETE USED SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
4. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS OR WATER BODIES.
5. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ELEVATIONS AS NECESSARY FOR COMPLETION OF THE WORK DESCRIBED IN THE PLANS.
6. CONTRACTOR SHALL INSTALL ALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND APPLICABLE CODE REQUIREMENTS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED TO CONSTRUCT WHAT IS SHOWN ON THE PLANS.
8. THE CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS TO ENSURE THAT NO POLLUTANTS ENTER WATER BODIES OR THE GROUNDWATER TABLE FROM THE CONSTRUCTION AREA. THE CONTRACTOR SHALL NOT STORE FUELS OR OTHER HAZARDOUS MATERIALS OR POTENTIAL CONTAMINANTS ON THE CONSTRUCTION SITE. IN THE EVENT OF A SPILL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE NYSDEC.
9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF ANY WATER BODY, STREAMS OR DRAINAGE CHANNELS BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE, OR ANY OTHER POLLUTANT ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES.

LEGEND

	EDGE OF WOODS		EXISTING SANITARY MANHOLE (SMH)
	PROPOSED CLEARING LINE		PROPOSED SANITARY SHUTOFF
	DECIDUOUS TREE		EXISTING STORM MANHOLE (STMH)
	CONIFEROUS TREE		PROPOSED STORM MANHOLE (STMH)
	SHRUB/BUSH		EXISTING CATCH BASIN (CB)
	STREET SIGN		EXISTING MAJOR CONTOUR LINE
	UTILITY POLE		EXISTING MINOR CONTOUR LINE
	LIGHT POLE		EXISTING MAJOR CONTOUR LINE
	EXISTING HYDRANT		EXISTING MINOR CONTOUR LINE
	PROPOSED HYDRANT		EXISTING MAJOR CONTOUR LINE
	EXISTING WATER SHUTOFF		EXISTING MINOR CONTOUR LINE
	PROPOSED WATER SHUTOFF		EXISTING MAJOR CONTOUR LINE
	GAS VALVE		EXISTING MINOR CONTOUR LINE
	WATER VALVE		EXISTING MAJOR CONTOUR LINE
	PROPERTY MONUMENT		EXISTING MINOR CONTOUR LINE
	IRON PIN / IRON ROD		EXISTING MAJOR CONTOUR LINE
	HANDICAP SPACE		EXISTING MINOR CONTOUR LINE
	PROPERTY LINE		EXISTING MAJOR CONTOUR LINE
	EASEMENT LINE		EXISTING MINOR CONTOUR LINE
	EXISTING STORM SEWER LINE		EXISTING MAJOR CONTOUR LINE
	PROPOSED STORM SEWER LINE		EXISTING MINOR CONTOUR LINE
	EXISTING SANITARY SEWER LINE		EXISTING MAJOR CONTOUR LINE
	PROPOSED SANITARY SEWER LINE		EXISTING MINOR CONTOUR LINE

Planning Board

Albany County DOH

Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**

**TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK**

APPLICANT:
WILLIAM J. CADE

Weston & Sampson

WESTON & SAMPSON, PE, LS, LA, PC
1 Winners Circle, Suite 130, Albany, NY 12205
518.463.4400 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description
1	11/22/19	REVISED PER TOWN COMMENTS
2	02/28/20	REVISED PER TOWN COMMENTS
3	09/02/20	REVISED PER TOWN COMMENTS
4	01/04/20	REVISED PER TOWN COMMENTS
5	06/14/21	REVISED PER TOWN COMMENTS
6	06/29/21	REVISED PER TOWN COMMENTS
7	09/13/21	REVISED PER TOWN COMMENTS

Seal:

Scale: AS SHOWN

Date: MARCH 30, 2018

Drawn By: CGC

Reviewed By: DTF

Approved By: JFB

W&S Project No: N2150091

Drawing Title:

**GENERAL NOTES
AND LEGEND**

Sheet Number:

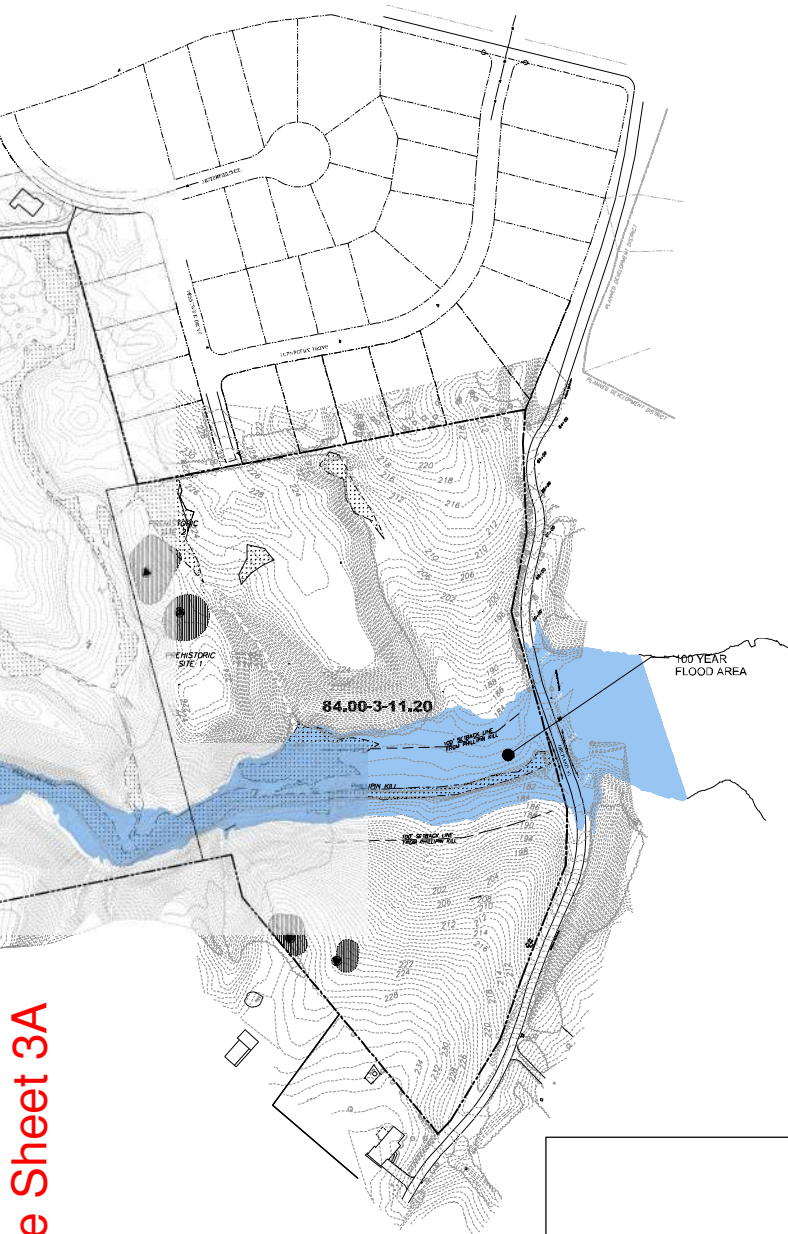
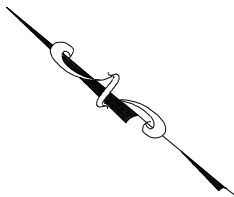
G-2

SHT. 2 OF 30

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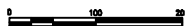


Matchline Sheet 3B



Planning Board
HTE 16-00400001

Albany County DOH



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PHASE - 1**

**TOWN OF BETHLEHEM
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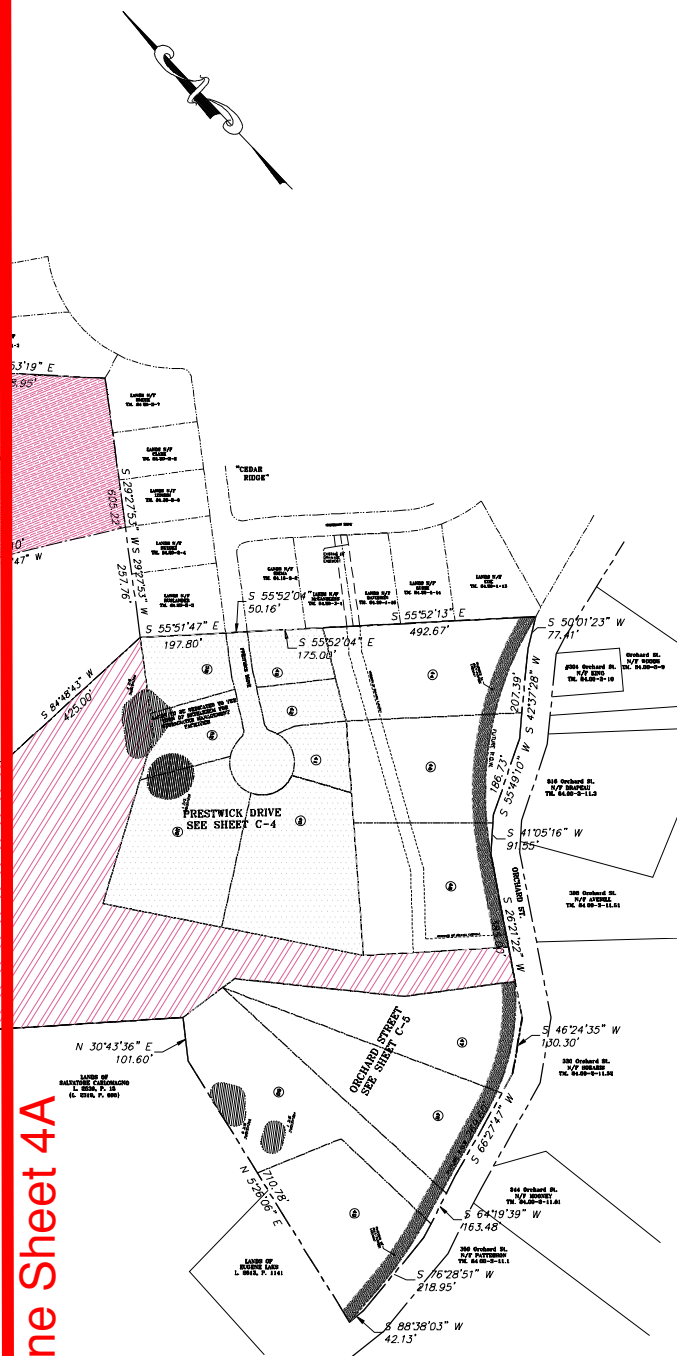
**EXISTING
CONDITIONS**

Sheet Number:

C-1

SHT. 3 OF 30

Matchline Sheet 4A



SURVEY NOTES

1. SURVEY SHOWN WAS PREPARED FROM A 2016 FIELD SURVEY.
2. THE OUTER BOUNDS OF THE P.D.D.'S LANDS ARE SHOWN ON THESE PLANS BASED ON DEED RECORDS WITHOUT THE BENEFIT OF AN UP-TO-DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH DOCUMENTS MAY REVEAL. COMPLETED BOUNDARY SURVEY INFORMATION WILL BE UPDATED AT THE TIME THE FINAL SUBDIVISION PLAT PACKAGE IS PREPARED. INTERIOR LOT LINES BEARING AND DISTANCES SHOWN ARE PRELIMINARY, AS ADJUSTMENTS MAY BE NECESSARY DURING THE MUNICIPAL REVIEW PROCESS. FINAL SURVEY COMPUTATIONS AND LABELING OF INTERIOR LOT LINES WILL BE COMPLETED AT THE TIME THE FINAL SUBDIVISION PLAT PACKAGE IS PREPARED.
3. SURVEY SHOWN IS SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.
5. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S SEAL, AND SIGNATURE IN RED, SHALL BE CONSIDERED TO BE TRUE AND VALID COPIES.
6. CERTIFICATIONS INDICATED OR IMPLIED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THE PERSON OR PERSONS FOR WHOM THIS SURVEY WAS PREPARED, AND ON HIS OR THEIR BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

Project:

PHILLIPIN KILL MANOR MAJOR SUBDIVISION PHASE - 1

TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK

APPLICANT:
WILLIAM J. CADE

Weston & Sampson

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Scale: 1" = 200'

Date: MARCH 30, 2018

Drawn By: ZAL

Reviewed By: CGC

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Drawing Title:

OVERALL
PRELIMINARY
PLAT

Sheet Number:

C-2
SHT. 4 OF 30

Planning Board
HTE 16-00400001

Albany County DOH

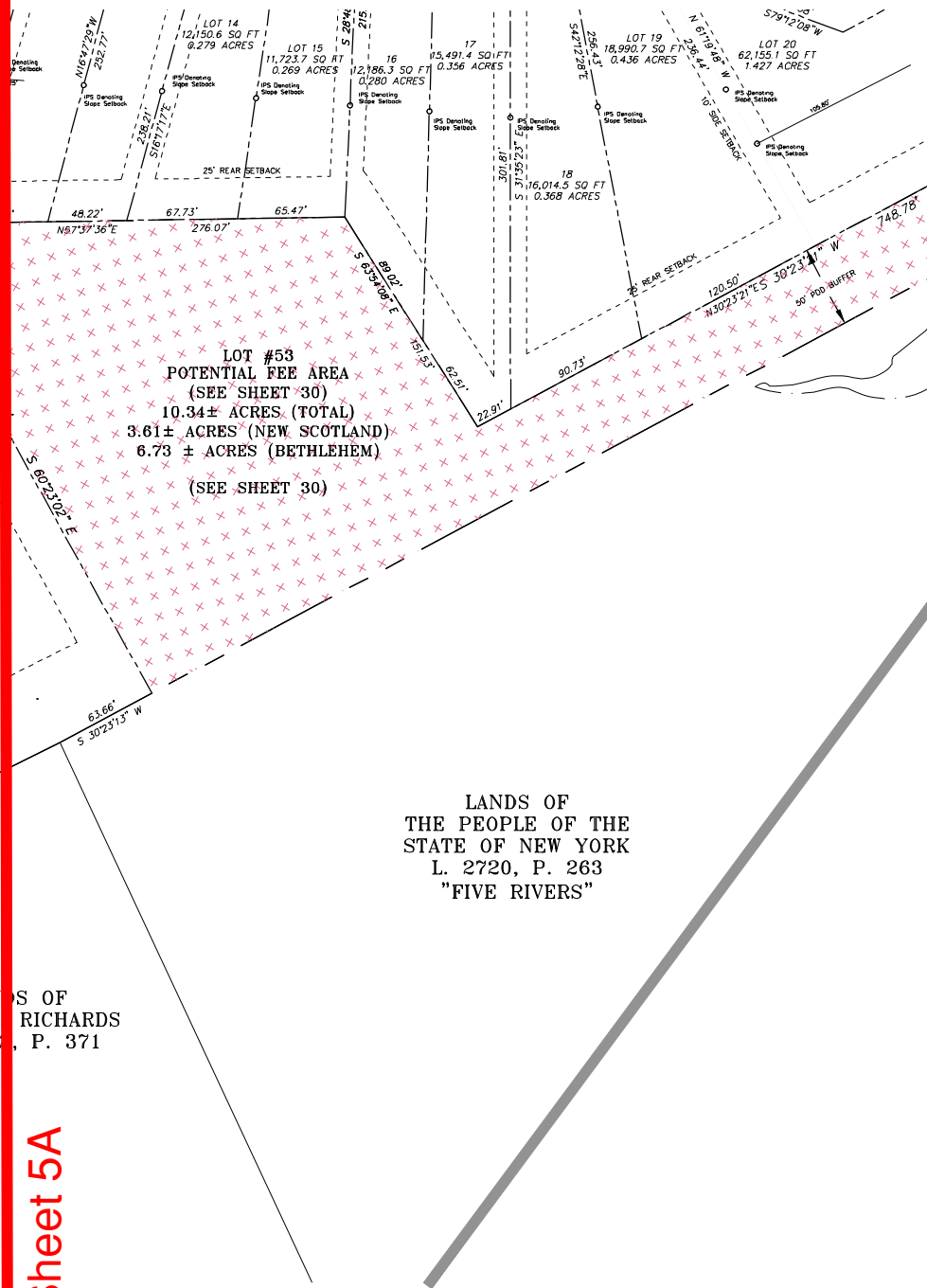
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1. LOT FRONTAGE DIMENSION IS MEASURED AT BUILDING SETBACK LINE AND HAS BEEN DISPLAYED FOR EACH LOT.

Matchline Sheet 5A

S OF
RICHARDS
P. 371



LANDS OF
THE PEOPLE OF THE
STATE OF NEW YORK
L. 2720, P. 263
"FIVE RIVERS"

Planning Board
HTE 16-00400001

Albany County DOH

Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**

**TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK**

APPLICANT:
WILLIAM J. CADE

Weston & Sampson

WESTON & SAMPSON, P.E., L.S., L.A., P.C.
1 Winners Circle, Suite 130, Albany, NY 12205
518.483.4400 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:		
No.	Date	Description
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7	09/13/21	REVISED PER TOWN COMMENTS

Seal:

Scale: 1" = 50'

Date: MARCH 30, 2018

Drawn By: CGC

Reviewed By: DTF

Approved By: DTF

W&S Project No: N2150091

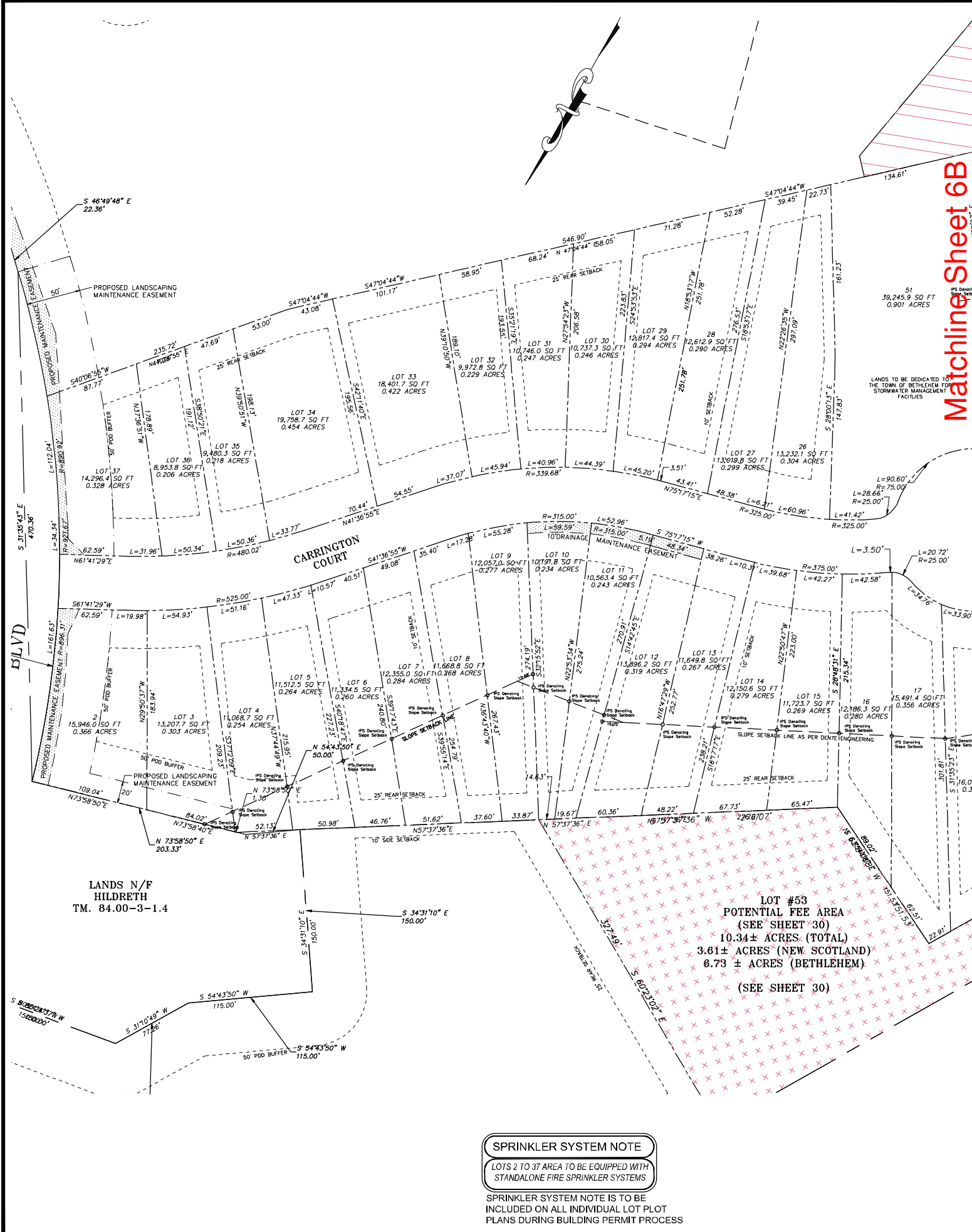
Drawing Title:

**PRELIMINARY
PLAT - FISHER
BOULEVARD**

Sheet Number:

C-3
SHT. 5 OF 30

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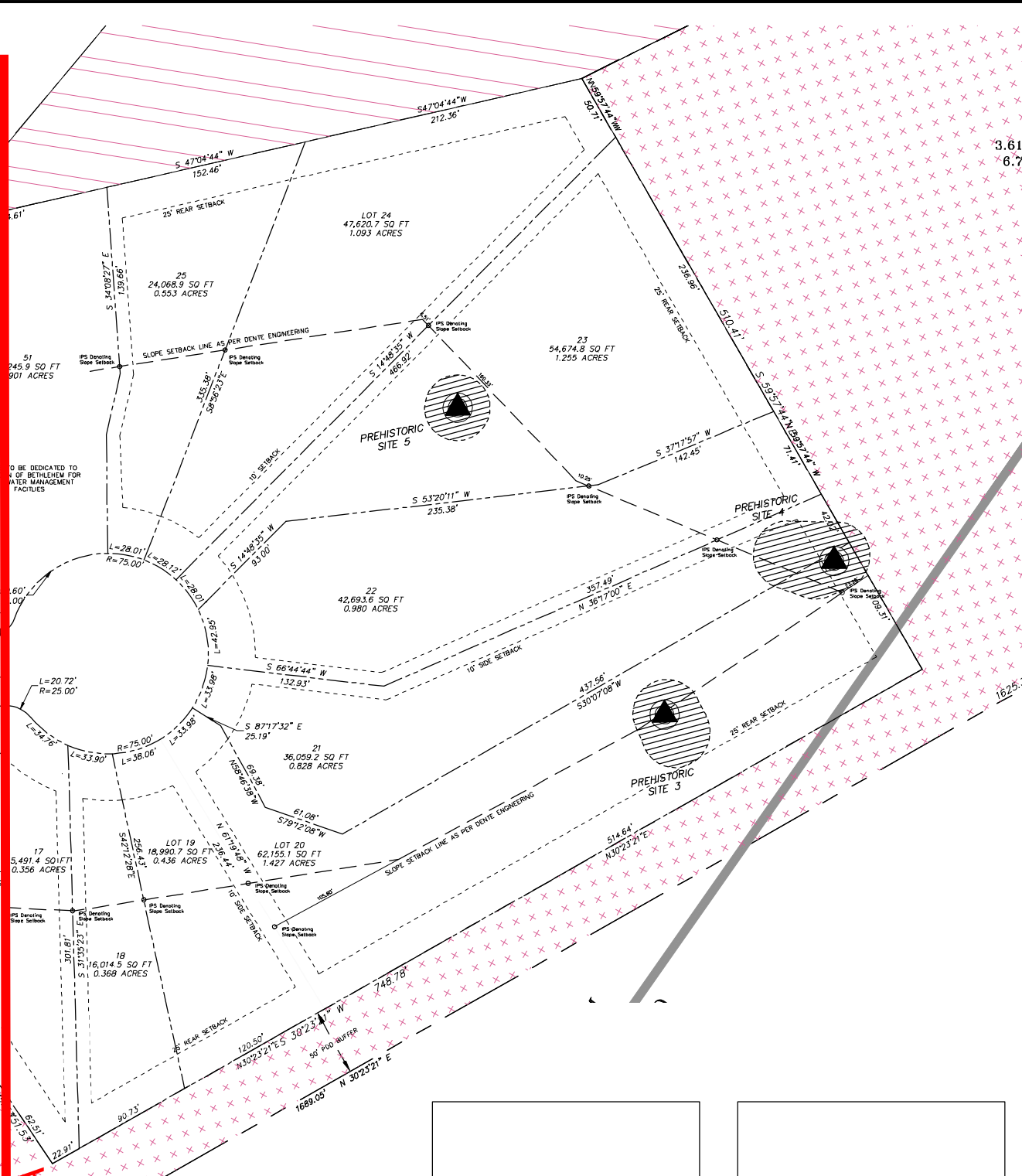


SPRINKLER SYSTEM NOTE

LOTS 2 TO 37 AREA TO BE EQUIPPED WITH STANDALONE FIRE SPRINKLER SYSTEMS

SPRINKLER SYSTEM NOTE IS TO BE INCLUDED ON ALL INDIVIDUAL LOT PLOT PLANS DURING BUILDING PERMIT PROCESS

Matchline Sheet 6A



Planning Board
HTE 16-0040001

Albany County DOH

Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**
**TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK**
APPLICANT:
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Date: MARCH 30, 2018
Drawn By: CGC
Reviewed By: DTF
Approved By: DTF
W&S Project No: N2150091

Drawing Title:
**PRELIMINARY
PLAT
CARRINGTON
COURT**
Sheet Number:
C-4
SHT. 6 OF 30

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1-13

LANDS N/F
LURIE
TM. 84.20-1-14

LANDS N/F
DAVIDSON
TM. 84.20-1-15

LANDS N/F
McCANDLESS
TM. 84.20-3-1

LANDS N/F
IDEMA
TM. 84.16-3-2

LANDS N/F
RUSLANDER
TM. 84.20-3-3

LANDS N/F
SUZUKI
TM. 84.20-3-4

L07144
98,003.7 SQ. FT
2.250 ACRES

45
90,010.3 SQ. FT
2.066 ACRES

41
18,798.9 SQ. FT
0.432 ACRES

43
18,842.3 SQ. FT
0.433 ACRES

43
22,566.9 SQ. FT
0.518 ACRES

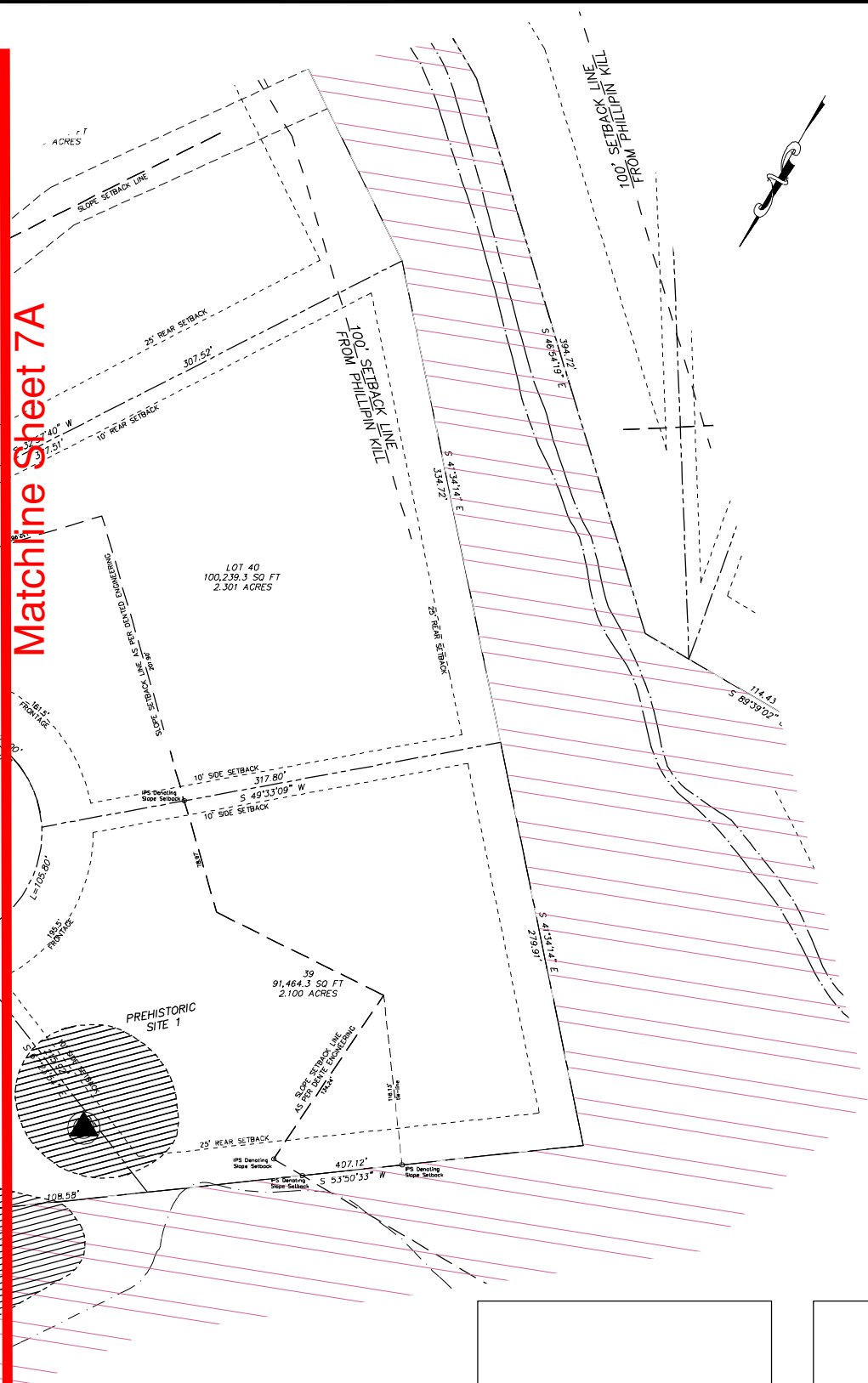
52
31,266.8 SQ. FT
0.718 ACRES

38
30,623.5 SQ. FT
0.703 ACRES

PREHISTORIC
SITE 2

Matchline Sheet 7A

Matchline Sheet 7A



Planning Board
HTE 16-00400001

Albany County DOH

NOTE:
1. LOT FRONTAGE DIMENSION IS MEASURED AT BUILDING SETBACK LINE AND HAS BEEN DISPLAYED FOR EACH LOT.

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Project:
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SUBDIVISION
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**TOWN OF BETHLEHEM
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Drawn By: CGC
Reviewed By: DTF
Approved By: DTF

W&S Project No: N2150091

Drawing Title:

**PRELIMINARY
PLAT
PRESTWICK
DRIVE**

Sheet Number:

C-5
SHT. 7 OF 30

LANDS N/F
COE
84.20-1-13

N/F
E
-1-14

N/F
N
1-15

316 Orchard St.
N/F DRAPEAU
TM. 84.00-3-11.3

308 Orchard St.
N/F AVERILL
TM. 84.00-3-11.51

ORCHARD ST.

Matchline Sheet 8B

Planning Board
HTE 16-00400001

Albany County DOH

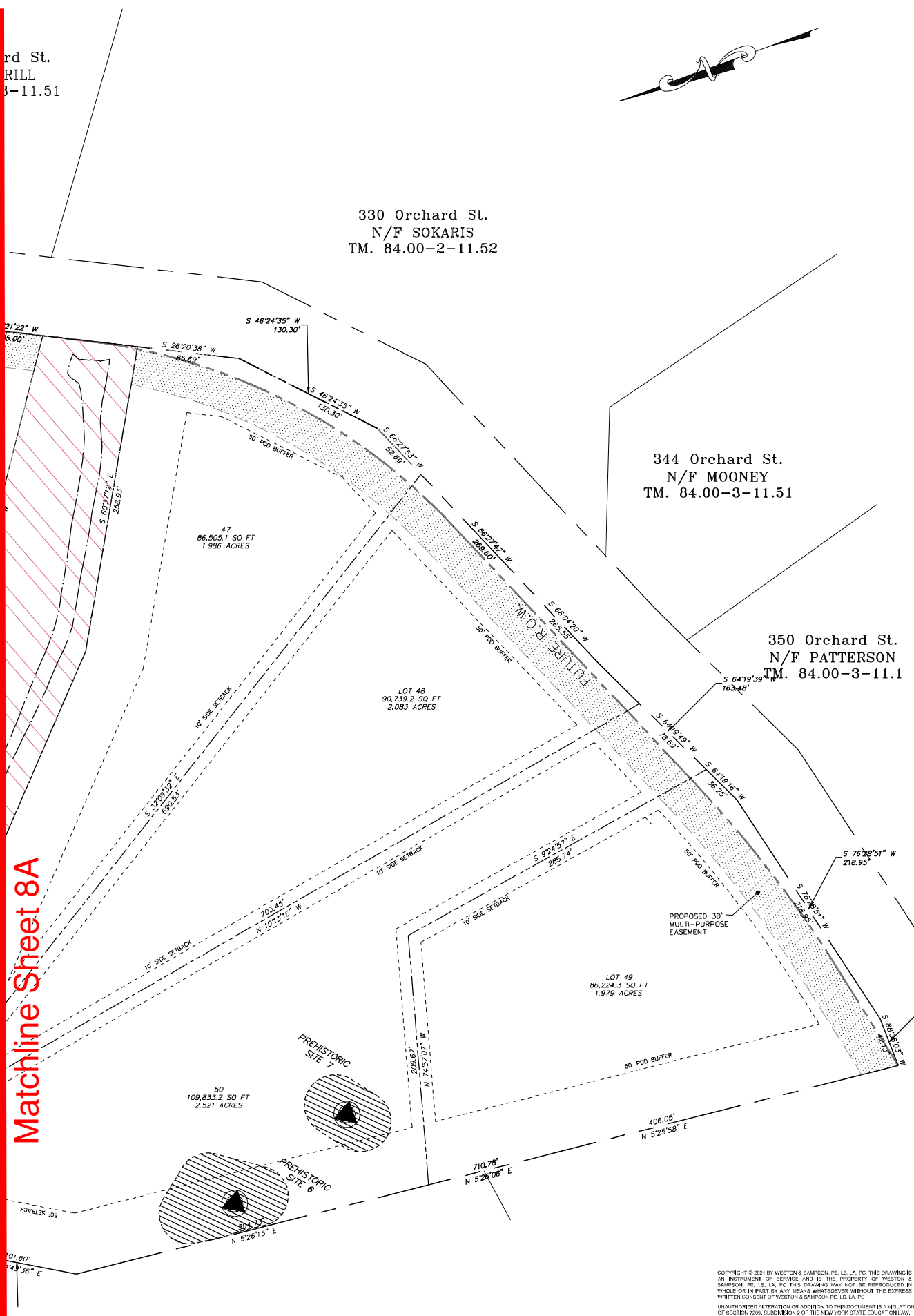
rd St.
RILL
3-11.51

330 Orchard St.
N/F SOKARIS
TM. 84.00-2-11.52

344 Orchard St.
N/F MOONEY
TM. 84.00-3-11.51

350 Orchard St.
N/F PATTERSON
TM. 84.00-3-11.1

Matchline Sheet 8A



Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**

**TOWN OF BETHLEHEM
ALBANY COUNTY
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Drawn By: CGC

Reviewed By: DTF

Approved By: DTF

W&S Project No: N2150091

Drawing Title:

**SUBDIVISION
PLAT -
ORCHARD
STREET**

Sheet Number:

C-6
SHT. 8 OF 30

"FISHER HOLLOW"

LANDS N/F
O'NEIL
TM. 84.16-3-24

NEW 16"x8" TAPPING
SLEEVE AND VALVE

SEE PLANTING SCHEDULE
AND DETAILS ON SHEET D-4

LANDS N/F
BRADT
TM. 84.16-3-29

LANDS N/F
MOLINO
TM. 84.16-3-30

LANDS N/F
ROSENBLATT
TM. 84.16-3-31

LANDS N/F
HILDRETH
TM. 84.00-3-144

LOT GRADING NOTE

ALL LOTS TO HAVE GRADING EVALUATED INDIVIDUALLY AT BUILDING PERMIT STAGE
TO ENSURE STORMWATER DRAINS AWAY FROM BUILDING BY GRADING AND
UNDERDRAIN WHERE REQUIRED.

SUMP PUMP NOTE

SUMP PUMP DRAINAGE TO DAYLIGHT AT FRONT OF
BUILDING, SEE DETAIL SHEET 25
(FRONT OF ALL LOTS ARE GRADED TOWARD THE ROAD)

ROOF DRAIN (GUTTER) NOTE

ALL ROOF DRAINAGE TO BE COLLECTED UTILIZING
GUTTERS AND TO BE ROUTED TO THE FRONT OF
BUILDINGS, TYPICAL AS PER SHOWN ON LOT 30 & 31.
SEE DETAIL SHEET 26 (D-4)
(FRONT OF ALL LOTS ARE GRADED TOWARD THE ROAD)

1. THE EXISTING SLOPE SHOULD BE CLEARED AND 5% ORGANIC MATTER.
2. THE SLOPE FILLS SHOULD BE MADE USING ON-SITE SOILS.
3. THE FILLS SHOULD BE BENCHMARKED INTO THE EXISTING BENCHES.
4. THE FILLS SHOULD BE PLACED IN MAXIMUM EIGHT LIFT SHOULD BE COMPACTED USING A SHEEP-FOOT ROLLER TO THE DENSITY AND MOISTURE OF THE MATERIAL'S MAXIMUM DRY DENSITY AND THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE Standard Proctor Compaction Test, ASTM D698.
5. THE BOTTOM AND SIDES OF THE BASIN SHOULD BE 6 INCHES OF CLAY (USCS GROUP CL OR CH) WHICH SHEEP-FOOT ROLLER TO THE DENSITY AND MOISTURE OF THE BASIN TO CONFIRM THE CONDITIONS EXPECTED.
6. A THICK VEGETATIVE COVER OF OTHER APPROPRIATE PLANTS SHOULD BE INSTALLED ON ALL FINAL CUT AND FILL SLOPES TO INHIBIT EROSION.

Matchline Sheet 9B

LANDS OF
CAROL A. RICH
L. 2482, P.

Planning Board
HTE 16-00400

SLOPE CERTIFICATION NOTE

THE PROPOSED LAND DISTURBANCE ACTIVITY DOES NOT FALL WITHIN THE ANGLE OF REPOSE OF 20% OR GREATER OF ANY SLOPE HAVING A VERTICAL RISE OF 20 FEET OR MORE, OR 33% OR GREATER OF ANY SLOPE WITH A VERTICAL RISE OF 10 FEET OR MORE, OR 40% OR GREATER OF ANY SLOPE WITH A VERTICAL RISE OF FIVE FEET OR MORE.

POND FILL NOTE (LOT 51)
ANY FILL SHALL BE USED IN THE FOLLOWING MANNER: 1. FILL SHALL BE NATIVE MATERIAL, OR SUITABLE MATERIAL AS SPECIFIED IN SPECIFICATIONS. 2. FILL SHALL BE PLACED AND TRODDED.

BASIN CONSTRUCTION NOTES:
1. ALL BASINS SHALL BE CLEARED AND STRIPPED OF TOPSOIL AND SURFICIAL MATERIAL TO A DEPTH OF 6 INCHES.
2. ALL BASINS SHALL BE MADE USING ON-SITE CLAY (USCS GROUP CL OR CH) OR FILL PLACED IN MAXIMUM EIGHT (8) INCH THICK LOOSE LIFTS, EACH LIFT TO BE COMPACTED USING A SHEEP-FOOT ROLLER TO AT LEAST 92 PERCENT MAXIMUM DRY DENSITY AND WITHIN ONE (1) PERCENT BELOW THE OPTIMUM MOISTURE CONTENT DETERMINED BY THE PROCTOR TEST, ASTM D698.
3. THE BASIN SHOULD CONSIST OF AT LEAST TWELVE (12) LIFTS OF THE BASIN SHOULD BE COMPACTED USING A SHEEP-FOOT ROLLER TO AT LEAST 92 PERCENT MAXIMUM DRY DENSITY AND WITHIN ONE (1) PERCENT BELOW THE OPTIMUM MOISTURE CONTENT DETERMINED BY THE PROCTOR TEST, ASTM D698.
4. THE BASIN SHOULD BE COVERED WITH A 6 INCH THICK LAYER OF TOPSOIL AND SURFICIAL MATERIAL.
5. THE DENSITY AND MOISTURE CONTENTS SPECIFIED IN NOTE #4 SHALL BE OBSERVED DURING CONSTRUCTION.
6. THE CONDITIONS EXPOSED ARE CONSISTENT WITH THOSE OF OTHER APPROPRIATE PROTECTION SHOULD BE USED TO PROTECT CUT AND FILL SLOPES AND ANY DISTURBED AREAS TO PREVENT EROSION.

LIMIT OF DISTURBANCE
AREA = 13.41 ± AC



6"X4" Wetland Sign

INFILTRATION RESULTS

BORING #	AVERAGE INFILTRATION
TP-1	14.4 INCHES/HR
TP-2	0.025 INCHES/HR
TP-3A	21.0 INCHES/HR
TP-3B	19.7 INCHES/HR

GRADING LIMIT LINE NOTES

- GRADING WORK SHALL BE PERFORMED ON THE P.D.D. PROPERTY OR WITHIN MUNICIPAL RIGHT-OF-WAY, AND NOT OUTSIDE THE PROPERTY LIMITS OF THE P.D.D. WITHOUT A TEMPORARY EASEMENT FOR CONSTRUCTION ACTIVITY.
- GRADING LIMIT LINE MAY AT SOME LOCATIONS BE DEPICTED SLIGHTLY OFF-PROPERTY FOR PURPOSES OF GRAPHIC LEGIBILITY.
- THE SYMBOL FOR EROSION CONTROL SILT FENCING HAS NOT BEEN SHOWN ON THE PLANS BECAUSE THE SILT FENCING SHALL BE INSTALLED IN RELATIVE PROXIMITY TO THE GRADING LIMIT LINE THAT HAS BEEN SHOWN ON THESE PLANS.
- ANY REVISIONS SHALL BE APPROVED BY THE SITE'S QUALIFIED INSPECTOR AND THE TOWN'S STORMWATER COORDINATOR PRIOR TO INSTALLATION. IF MAJOR CHANGES ARE REQUIRED, AS DETERMINED BY THE TOWN, THE ENGINEER OF RECORD WILL NEED TO REVISE THE SWPPP AND PLANS. THESE CHANGES SHALL BE REVIEWED AND APPROVED BY THE TOWN ENGINEER PRIOR TO IMPLEMENTATION.
- ORANGE CONSTRUCTION FENCING IS TO BE INSTALLED ALONG ENTIRE LENGTH OF LIMIT OF DISTURBANCE LINE.

Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**

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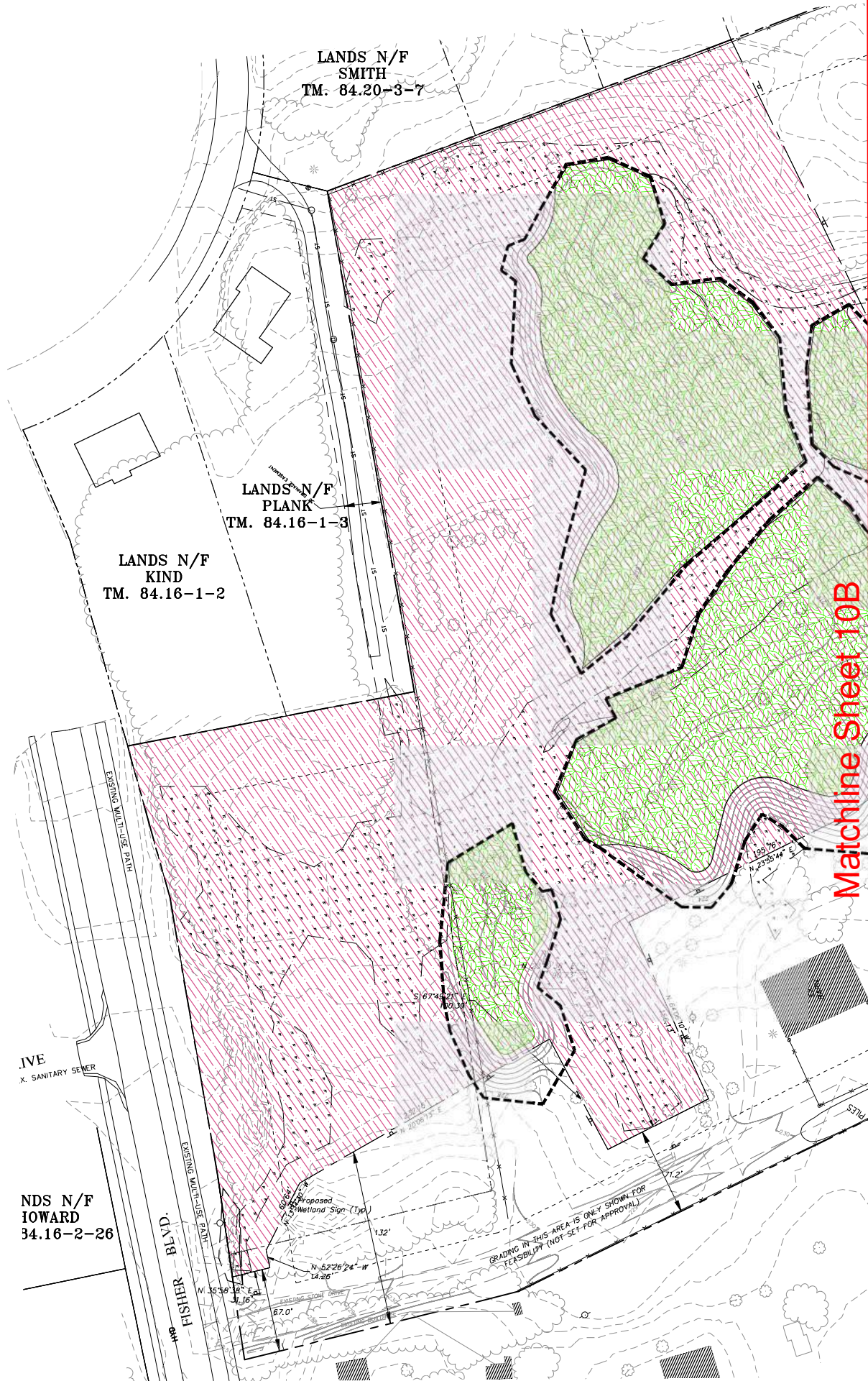
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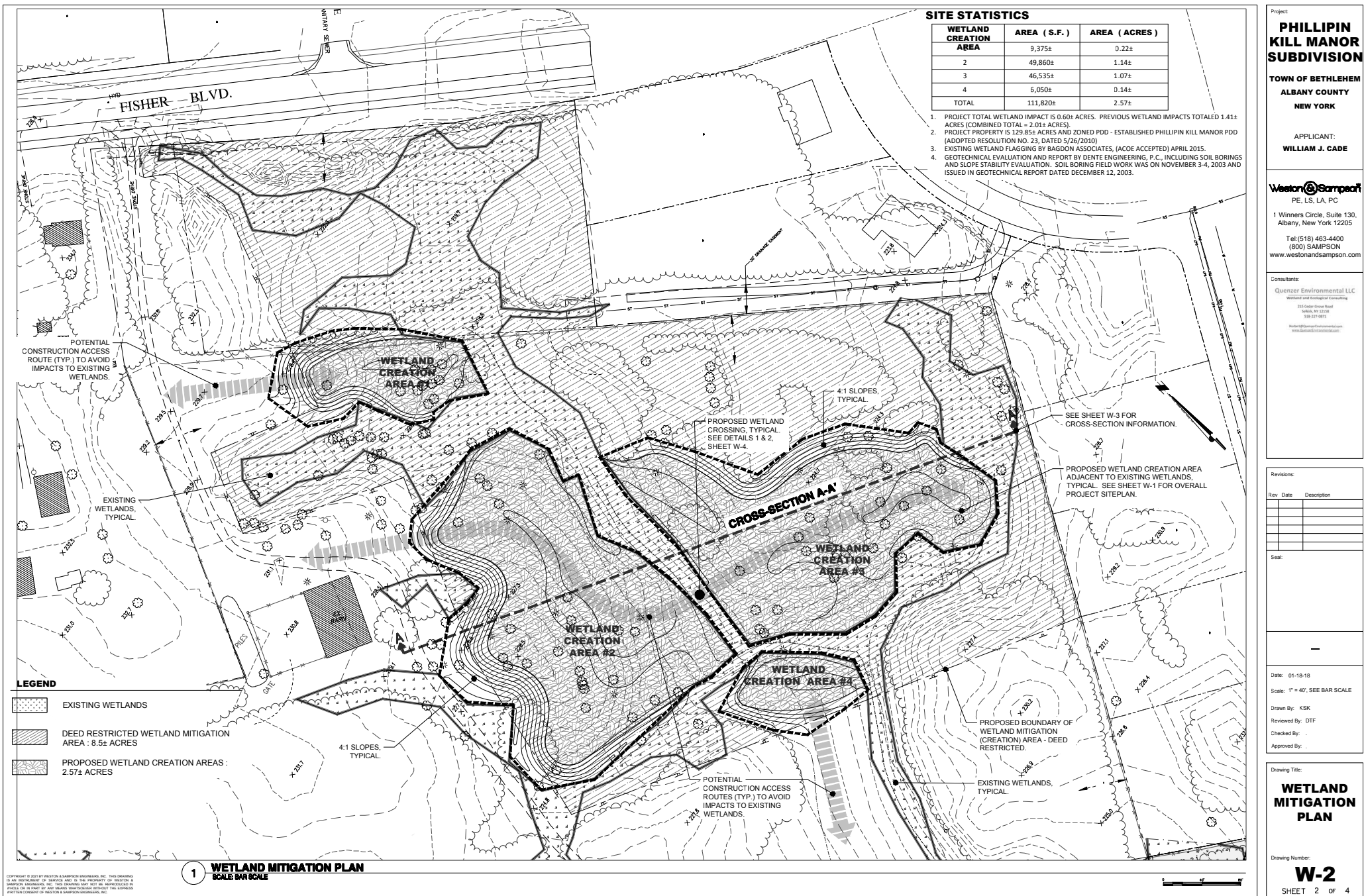
**GRADING PLAN -
CARRINGTON
COURT**

Sheet Number:

C-7
SHT. 9 OF 30



Matchline Sheet 10B



PLANTING SCHEDULE - Scrub-Shrub /Forested Wetland Plantings

COMMON NAME	SCIENTIFIC NAME
SILKY DOGWOOD	CORNUS AMOMUM
ELDERBERRY	SAMBUCUS CANADENSIS
WINTERBERRY HOLLY	ILEX VERTICILLATA
SWAMP WHITE OAK	QUERCUS BICOLOR
WILLOW	SALIX DISCOLOR AND S. SERICEA
MEADOWSWEET	SPIRAEA LATIFOLIA
HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM

NOTES:

PLANT SIZE IS POTTED (18"-36") WITH ESTABLISHED ROOT SYSTEMS. NUMBERS OF SPECIMENS ARE BASED ON 12" ON-CENTER (OC) -- ~600± SHRUBS/SAPLINGS TOTAL. ACTUAL PLANTING WILL BE DONE WITH RANDOM SPACING TO SIMULATE NATURAL PLANT ESTABLISHMENT.

SEEDING:

ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) AT A RATE OF 1.5 LBS. / 1000 SQ. FT.

NORTHEAST WETLAND DIVERSITY MIX® – 1 POUND WILL COVER 21,750 SQ. FT. @ 100+ SEEDS PER SQ. FT. (4 LBS./REOD.).

NORTHEAST UPLAND WILDLIFE SEED MIX® – 48 LBS. / ACRE

CONSTRUCTION SUMMARY:

DETAILED CONSTRUCTION PLANS, INCLUDING GRADING AND EROSION CONTROL PLANS, WILL BE PROVIDED TO THE SITE CONTRACTOR. THE WETLAND CONSULTANT WILL MEET WITH THE ENGINEER AND SITE CONTRACTOR PRIOR TO CONSTRUCTION TO REVIEW THE CONSTRUCTION DETAILS AND WORK LIMITS. THE WETLAND CONSULTANT WILL INSPECT ALL PHASES OF THE MITIGATION DURING CONSTRUCTION. ORANGE CONSTRUCTION FENCING WILL BE PLACED, AS PER PLAN, TO DEMARCAT THE LIMITS OF EARTH WORK BY THE EXCAVATION/CONSTRUCTION CONTRACTOR TO PREVENT ENCROACHMENT ON WETLANDS OUTSIDE OF THE WORK LIMITS. SILT FENCE WILL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND THE SWPPP, AS APPLICABLE. INSPECTION OF SILT FENCE WILL BE FREQUENT, AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. SILT FENCE SHALL BE REMOVED FOLLOWING SOIL STABILIZATION OF EACH AREA.

GRADING, TOPSOIL AND STABILIZATION:

ROUGH GRADING WILL BE IMPLEMENTED TO INCLUDE NUMEROUS SHALLOW 'PITS & MOUNDS' CREATING MICRO-TOPOGRAPHY IN THE WETLAND CREATION AREAS. A MINIMUM OF 12 INCHES OF TOPSOIL WILL BE PLACED TO BRING THE MITIGATION AREA TO FINAL GRADE. TOPSOIL SHOULD CONSIST OF LOAM, FREE OF INVASIVE SPECIES, AND CONTAIN SUITABLE ORGANIC MATTER TO FACILITATE PLANT GROWTH.

THE WETLAND CREATION AREAS AND ADJACENT SLOPES WILL BE SEEDDED WITH ANNUAL RYE (LOLIUM MULTIFLORUM) AT A RATE OF 1.5 LBS/1000SQ.FT. IMMEDIATELY FOLLOWING FINAL GRADING.

WETLAND PLANTING PLAN:

THE WETLAND MITIGATION AREA WILL BE PLANTED IN THE SPRING OR FALL WITH APPROXIMATELY 600 18 TO 36- INCH POTTED SHRUBS AND SAPLINGS ON A 12-FOOT MATRIX IN THE SCRUB-SHRUB/FORESTED WETLAND CREATION AREAS. PLANTING PATTERN FOR ALL SPECIES SHOULD BE DONE IN A RANDOM FASHION AS OPPOSED TO EVENLY SPACED ROWS.

THE WETLAND MITIGATION AREA WILL BE SEEDDED WITH 4 LBS. OF NORTHEAST WETLAND DIVERSITY MIX OR EQUIVALENT. (1 POUND WILL COVER 21,750 SQ.FT @ 100+ SEEDS PER SQ.FT.)

UPLAND BUFFER ENHANCEMENT NOTES:

THE ADJACENT GRADED UPLANDS OF EACH WETLAND CREATION AREA WILL BE SEEDDED WITH 48 LBS./ACRE OF NORTHEAST UPLAND WILDLIFE SEED MIX. THIS SEED MIX WILL HELP STABILIZE THE UPLAND SOILS AND PROVIDE WILDLIFE BENEFITS.

NOTES:

EROSION CONTROL PLAN DETAILS CONTAINED IN STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY WESTON & SAMPSON. DISPOSAL SITES) FOR SOILS FROM THE WETLAND CREATION AREAS WILL BE VERIFIED AS NON-JURISDICTIONAL LANDS BY THE WETLAND CONSULTANT.

3 PLANTING SCHEDULE
SCALE N.T.S.

PROTECTION OF TREES:

PROTECT EXISTING TREES WHICH ARE TO REMAIN AND WHICH MAY BE INJURED, BRUISED, DEFACED, OR OTHERWISE DAMAGED BY CONSTRUCTION OPERATIONS, UTILIZING STANDARD TREE PROTECTION CRITERIA INCLUDING:

A. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND INDIVIDUAL TREES DESIGNATED FOR PROTECTION. FENCING SHALL BE INSTALLED AT THE OUTWARD LIMIT OF THE TREE'S DRUPLINE OR EXTENT OF CANOPY COVER.

B. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND GROUPS OF TREES DESIGNATED FOR PROTECTION.

C. TREE AND/OR SHRUB BRANCHES IN THE WAY OF EQUIPMENT SHALL BE TRIMMED ACCORDING TO PROFESSIONAL HORTICULTURAL STANDARDS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR AND SUB-CONTRACTORS USE EQUIPMENT TO DEMOLISH BRANCHES AS WORK PROCEEDS.

REQUIRED FENCING SHALL BE INSTALLED PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION. REMOVE, DISPLACED ROCKS FROM UNCLEARED AREAS. BY APPROVED EXCAVATION. REMOVE TREES WITH 50 PERCENT OR MORE OF THEIR ROOT SYSTEMS DESTROYED. TREES DESIGNATED FOR REMOVAL SHALL BE REMOVED IN A MANNER THAT WILL NOT IMPACT ADJACENT TREES.

LANDSCAPE TREE REPLACEMENT:

REMOVE TREES AND OTHER LANDSCAPE FEATURES SCARRED OR DAMAGED BY EQUIPMENT OPERATIONS, AND REPLACE WITH EQUIVALENT, UNDAUNAGED TREES AND LANDSCAPE FEATURES. REPLACEMENT OF TREES SHALL OCCUR ON A ONE-TO-ONE BASIS.

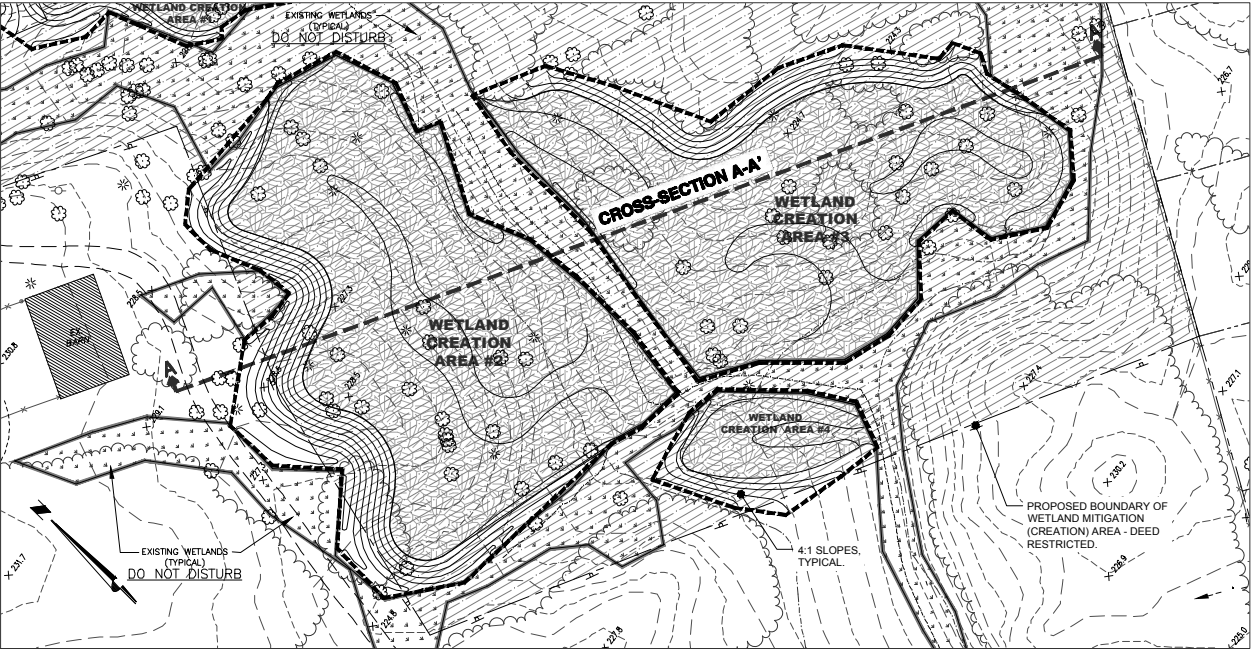
4 PROTECTION AND REPLACEMENT OF TREES
SCALE N.T.S.

SWPPP
(STORMWATER POLLUTION PREVENTION PLAN)

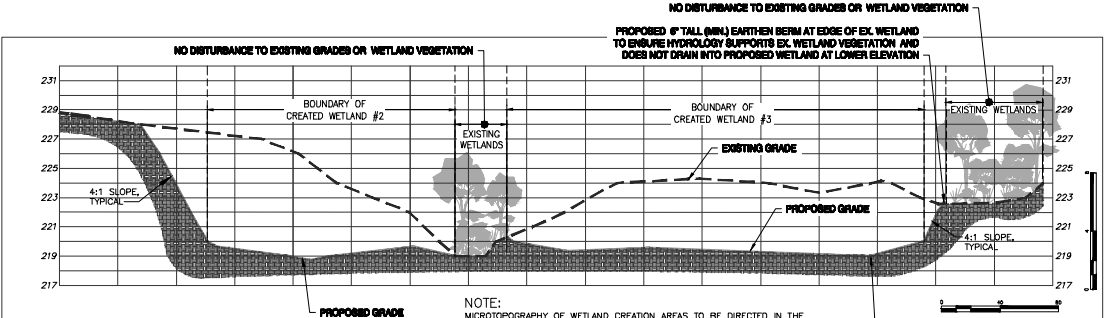
- ☐ A FULL SWPPP HAS BEEN DETERMINED TO BE REQUIRED BASED ON SCOPE OF PROJECT. SWPPP REQUIRES DOCUMENTS FROM CONSTRUCTION TEAM.
- ☒ A MODIFIED SWPPP HAS BEEN DETERMINED TO BE REQUIRED BASED ON SCOPE OF PROJECT. SWPPP REQUIRES DOCUMENTS FROM CONSTRUCTION TEAM.
- ☐ EROSION AND SEDIMENT CONTROL PLAN REQUIRED, ONLY.
- ☐ REFER TO REQUIREMENTS LISTED ON THIS SHEET AND SPECIFICATIONS ENCLOSED IN THE SWPPP. IF SCOPE OF PROJECT CHANGES, THE REQUIREMENT FOR A SWPPP AND HYDRO PERMITTING MAY REQUIRE RE-EVALUATION.
- ☐ HAS BEEN DETERMINED NOT TO BE REQUIRED BASED ON SCOPE OF PROJECT.

LEGEND

- EXISTING WETLANDS
- DEED RESTRICTED WETLAND MITIGATION AREA : 8.5± ACRES
- PROPOSED WETLAND CREATION AREAS : 2.57± ACRES



1 WETLAND MITIGATION PLAN
SCALE BAR SCALE



2 WETLAND CREATION CROSS-SECTION A-A'
SCALE BAR SCALE

Project:

PHILLIPIN KILL MANOR SUBDIVISION

TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK

APPLICANT:
WILLIAM J. CADE

Weston & Sampson
PE, LS, LA, PC

1 Winners Circle, Suite 130,
Albany, New York 12205

Tel: (518) 463-4400
(800) SAMPSON
www.westonandsampson.com

Consultants:

Quenzer Environmental LLC
Wetland and Ecological Consulting

215 Cedar Grove Road
Valhalla, NY 12588
518-227-0871

Rev	Date	Description

Scale:

Date: 01-18-18

Scale: 1" = 40'; SEE BAR SCALE

Drawn By: KSK

Reviewed By: DTF

Checked By: -

Approved By: -

WETLAND MITIGATION PLAN

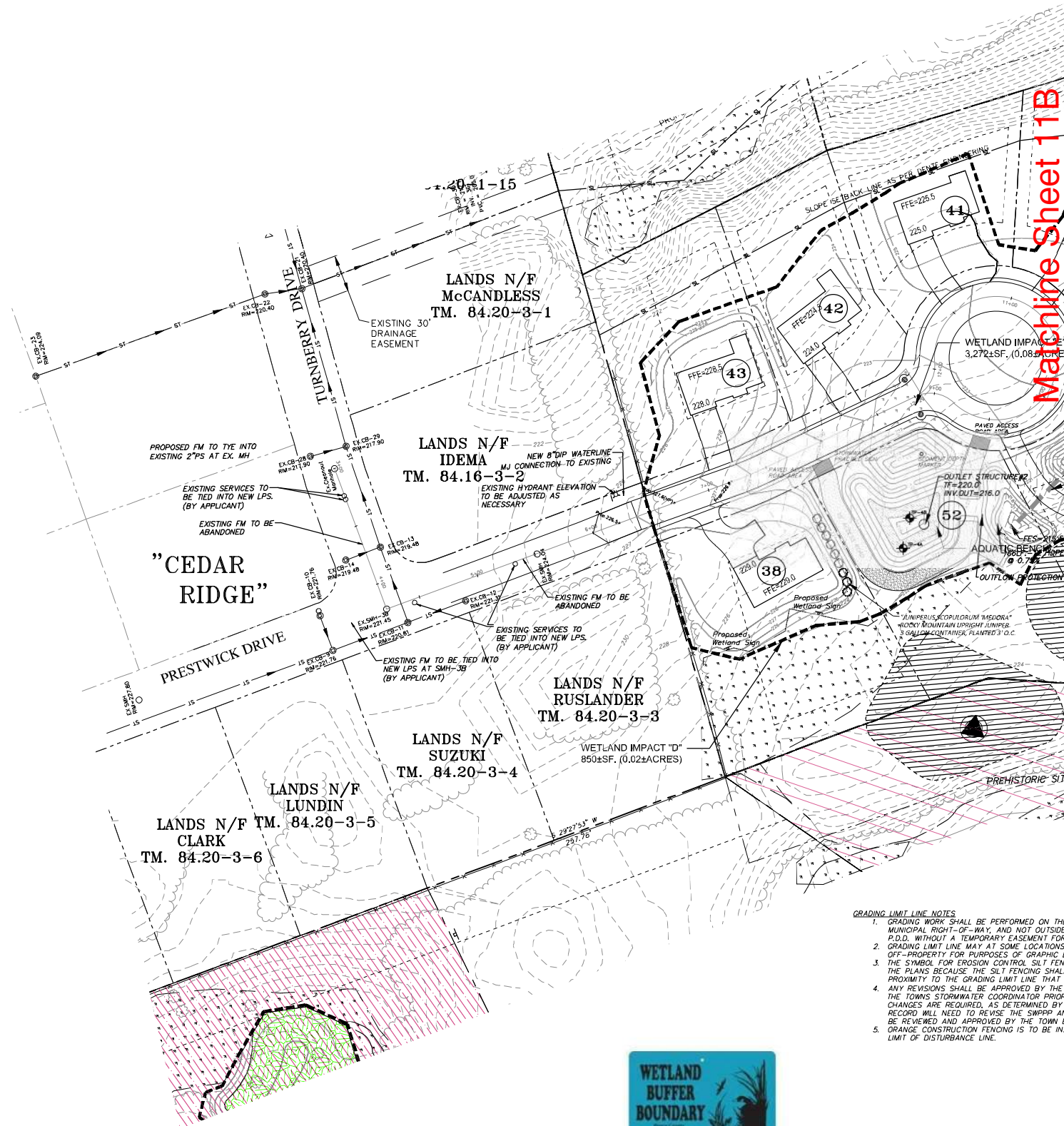
Drawing Number:

W-3

SHEET 3 OF 4

THE PROPOSED LAND WITHIN THE ANGLE OF HAVING A VERTICAL RISE GREATER OF ANY SLOPE MORE, OR 40% OR GREATER OF FIVE FEET OR MORE

Matchline Sheet 11B

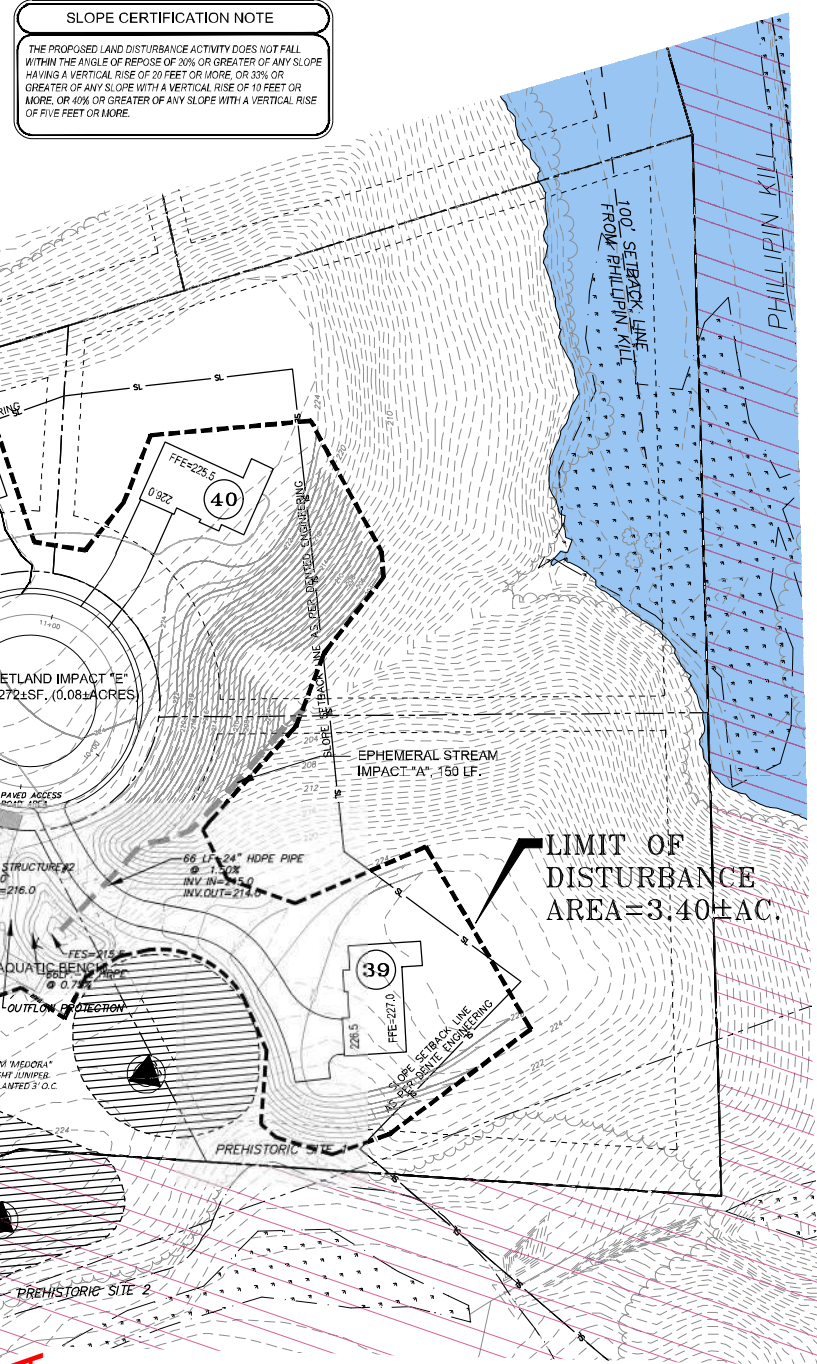
A blue rectangular sign with white text. The text reads "WETLAND BUFFER BOUNDARY" in large, bold, sans-serif capital letters. Below this, in smaller white text, it says "Palm County Planning and Public Works". To the right of the text is a white silhouette of a bird in flight, perched on a branch with some foliage.

6"X4" Wetland Sign
(or approved equal)

Matched to Sheet 11A

SLOPE CERTIFICATION NOTE

THE PROPOSED LAND DISTURBANCE ACTIVITY DOES NOT FALL WITHIN THE ANGLE OF REPOSE OF 20% OR GREATER OF ANY SLOPE HAVING A VERTICAL RISE OF 20 FEET OR MORE, OR 33% OR GREATER OF ANY SLOPE WITH A VERTICAL RISE OF 10 FEET OR MORE, OR 40% OR GREATER OF ANY SLOPE WITH A VERTICAL RISE OF FIVE FEET OR MORE.



BUILDING FOOTPRINT NOTE

Unless otherwise noted, the locations and footprint configurations of proposed buildings and associated lot grading as shown on this plan are conceptual, and are included for municipal review purposes. Actual building locations and configurations, and related site grading, may vary from what is shown, however, any substantial variation from what is shown on any lot, as determined by the town building inspector, shall be subject to further review by the town department of public works prior to the issuance of a building permit for that lot.

SUMP PUMP NOTE

SUMP PUMP DRAINAGE TO DAYLIGHT AT FRONT OF BUILDING. SEE DETAIL SHEET 25 (FRONT OF ALL LOTS ARE GRADED TOWARD THE ROAD)

ROOF DRAIN (GUTTER) NOTE

ALL ROOF DRAINAGE TO BE COLLECTED UTILIZING GUTTERS AND TO BE ROUTED TO THE FRONT OF BUILDINGS. TYPICAL AS PER SHOWN ON LOT 30 & 31. SEE DETAIL SHEET 25 (D-4) (FRONT OF ALL LOTS ARE GRADED TOWARD THE ROAD)

INFILTRATION RESULTS	
BORING #	AVERAGE INFILTRATION
TP-4A	11.1 INCHES/HR
TP-4B	0.0 INCHES/HR

Planning Board
HTE 16-00400001

Albany County DOH

Project
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**

**TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK**

APPLICANT:
WILLIAM J. CADE

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Consultants:

Revisions:		
No.	Date	Description
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3	09/02/20	REVISED PER TOWN COMMENTS
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5	06/14/21	REVISED PER TOWN COMMENTS
6	06/29/21	REVISED PER TOWN COMMENTS
7	09/13/21	REVISED PER TOWN COMMENTS

Seal:

Scale: 1" = 50'

Date: MARCH 30, 2018

Drawn By: KSK

Reviewed By: DTF

Approved By: DTF

W&S Project No: N2150091

Drawing Title:

**GRADING PLAN -
PRESTWICK
DRIVE**

Sheet Number:

C-9

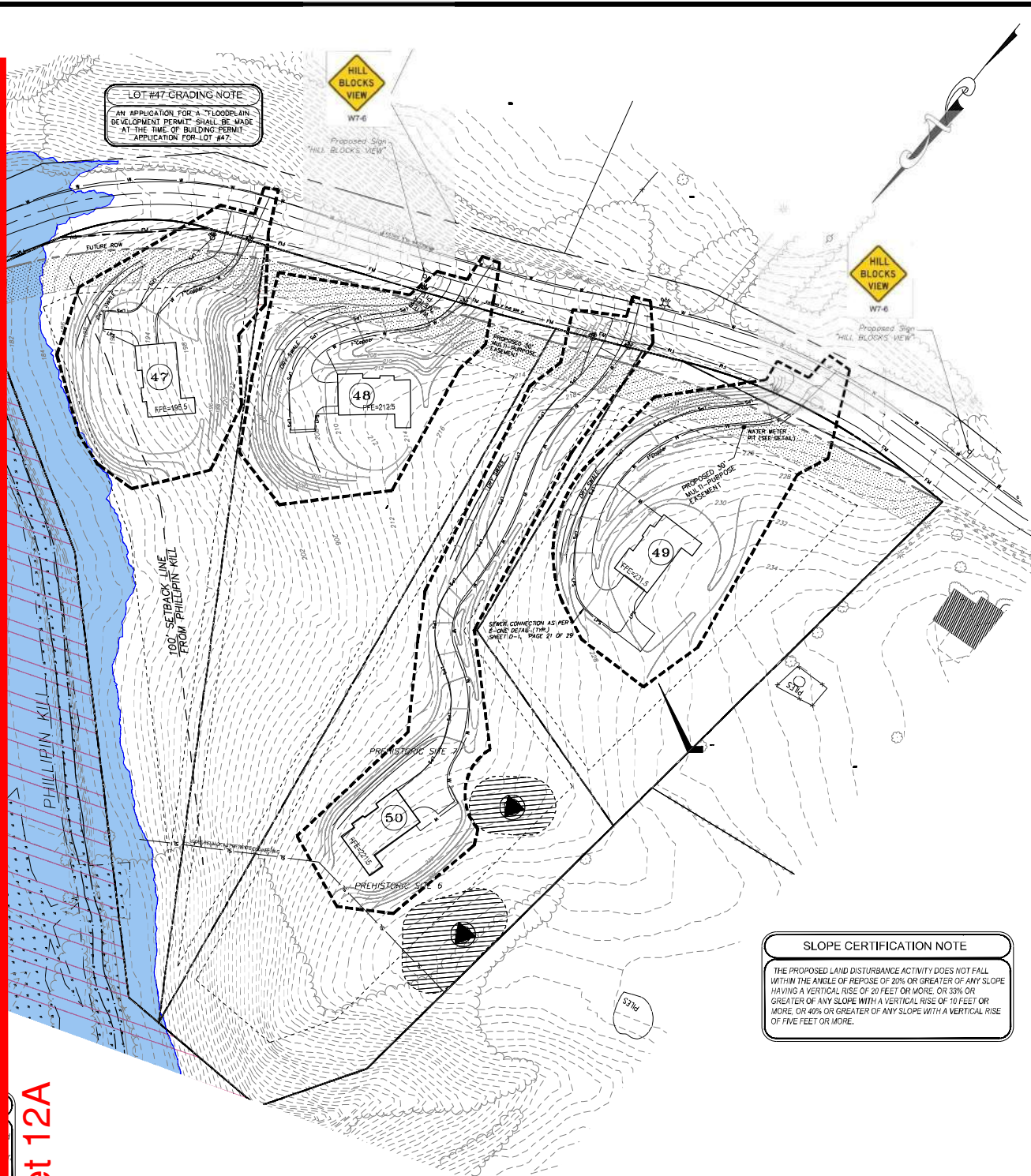
SHT. 11 OF 30



2. GRADING WORK SHALL BE PERFORMED ON THE P.D.D. PROPERTY OR WITHIN MUNICIPAL RIGHT-OF-WAY, AND NOT OUTSIDE THE PROPERTY LIMITS OF THE PROJECT. A TEMPORARY EROSION CONTROL MEASURE SHALL BE INSTALLED AT THE GRADING LIMIT LINE MAY AT SOME LOCATIONS BE DEPICTED SLIGHTLY OFF-PROPERTY FOR PURPOSES OF GRAPHIC LEGIBILITY.

3. SLOPE PROTECTION SHALL NOT BE SHOWN ON THE PLANS BECAUSE THE SILT FENCING SHALL BE INSTALLED IN RELATIVE PROXIMITY TO THE GRADING LIMIT LINE THAT HAS BEEN SHOWN ON THESE PLANS. SLOPE PROTECTION SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF THE TOWNS STORMWATER COORDINATOR PRIOR TO INSTALLATION. IF MAJOR CHANGES ARE REQUIRED, AS DETERMINED BY THE TOWN, THE ENGINEER OF RECORD WILL NEED TO BE NOTIFIED PRIOR TO THE INSTALLATION. SLOPE SHALL BE REVIEWED AND APPROVED BY THE TOWN ENGINEER PRIOR TO IMPLEMENTATION. EROSION CONTROL FENCING IS TO BE INSTALLED ALONG ENTIRE LENGTH OF LIMIT OF DISTURBANCE.

Unless otherwise noted, the locations and footprint configurations of proposed dwellings and associated lot grading as shown on this plan are conceptual, and are included for municipal review purposes. Actual building locations and configurations, and related site grading, may vary from what is shown, however, any substantial variation from what is shown on any lot, as determined by the town building inspector, shall be subject to further review by the town department of public works prior to the issuance of a building permit for that lot.



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Consultants:

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7	09/13/21	REVISED PER TOWN COMMENTS

Seal:

Scale: 1" = 50'

Date: MARCH 30, 2018

Drawn By: KSK

Reviewed By: DTF

Approved By: DTF

W&S Project No: N2150091

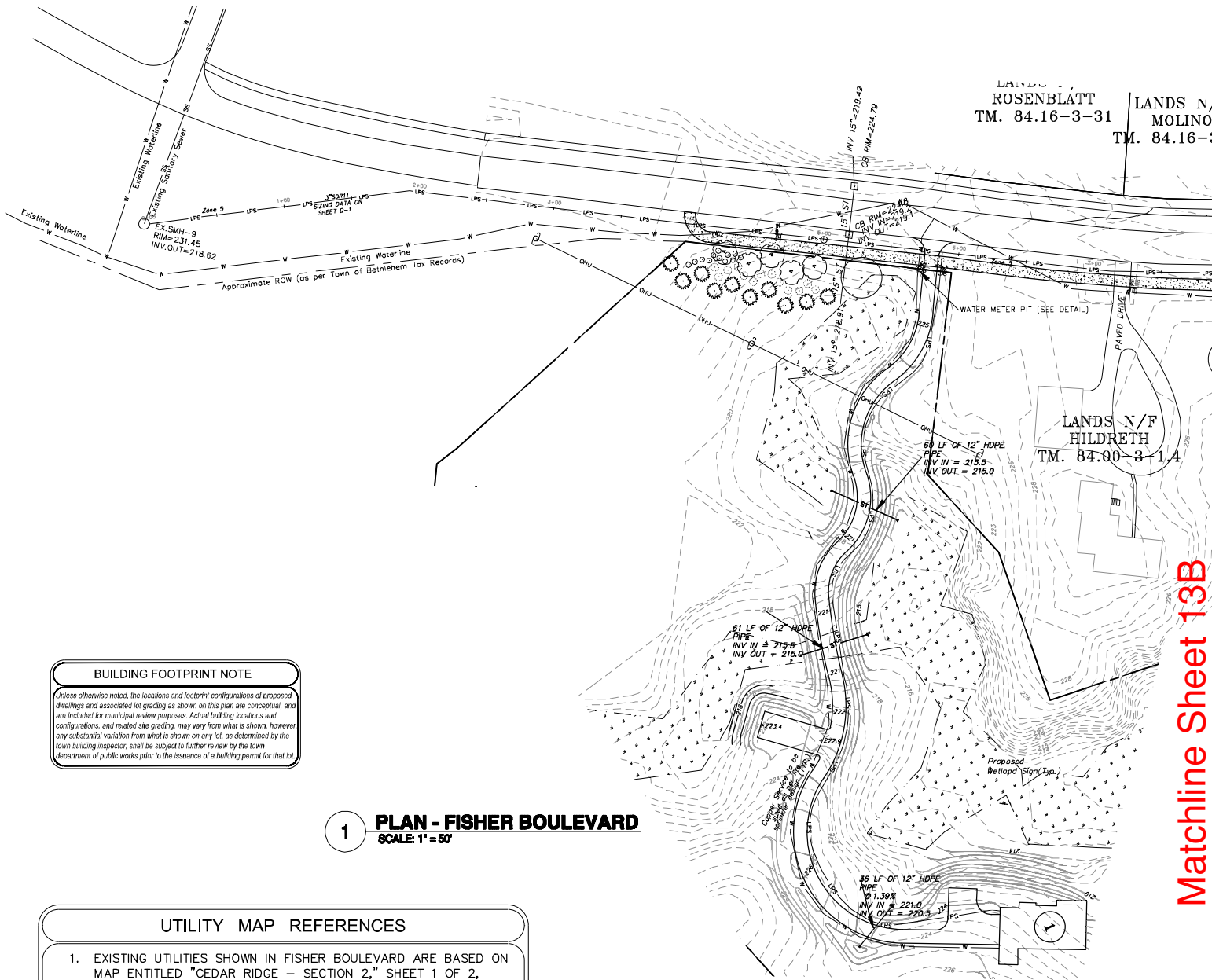
Drawing Title:
**GRADING PLAN -
ORCHARD
STREET &
NEW STORM
PIPE**

Sheet Number:
C-10
SHT. 12 OF 30

Planning Board
HTE 16-00400001

Albany County DOH

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Matchline Sheet 13B

BUILDING FOOTPRINT NOTE

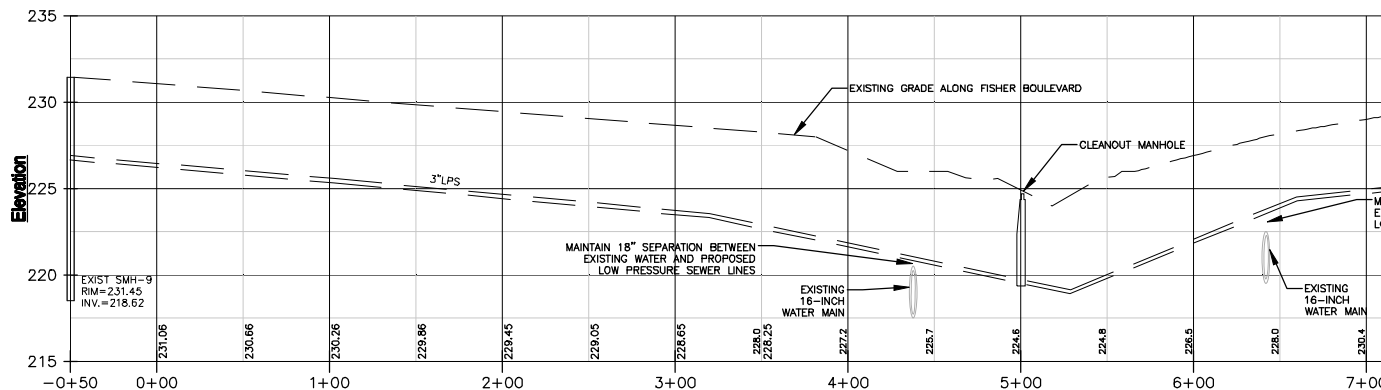
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1 PLAN - FISHER BOULEVARD

SCALE: 1" = 50'

UTILITY MAP REFERENCES

- EXISTING UTILITIES SHOWN IN FISHER BOULEVARD ARE BASED ON MAP ENTITLED "CEDAR RIDGE - SECTION 2," SHEET 1 OF 2, DATED JUNE 19, 1995 AS PREPARED BY BREWER ENGINEERING.

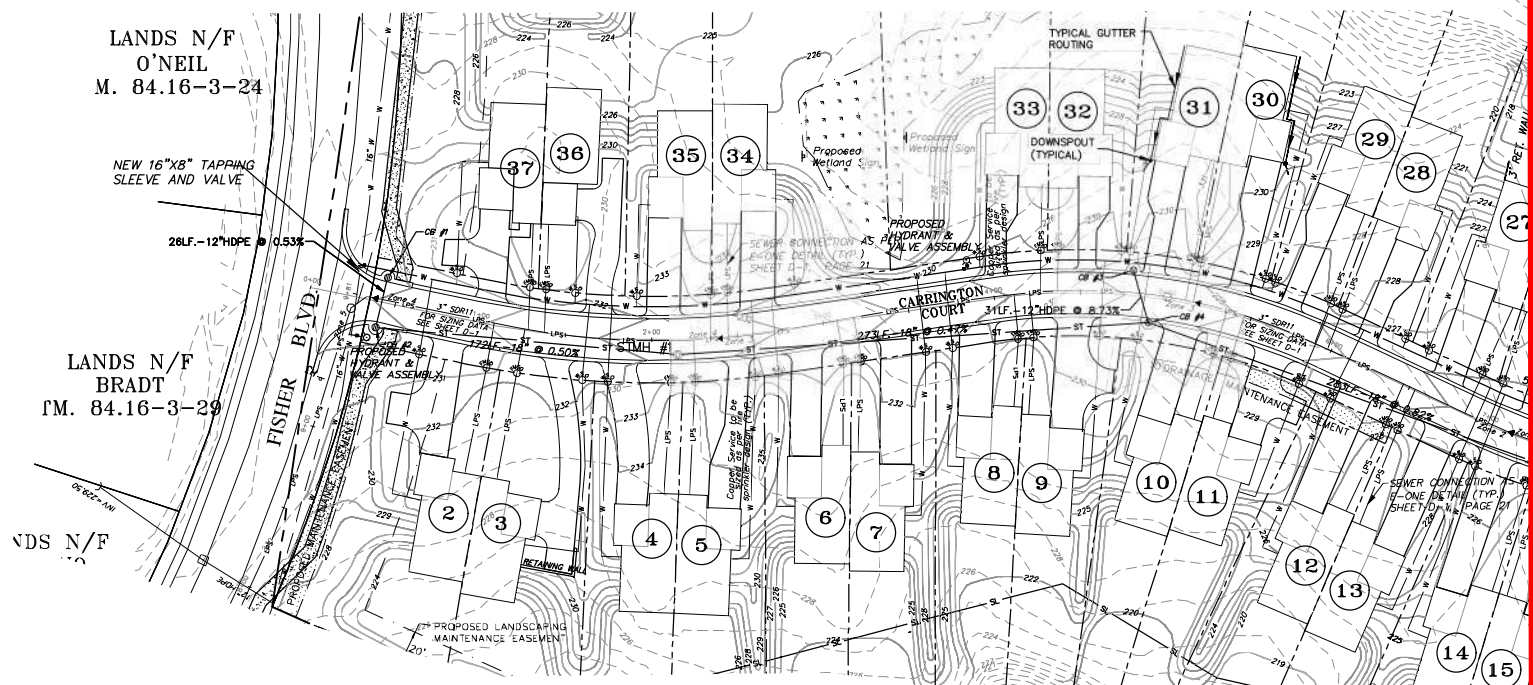


2 PROFILE - FISHER BOULEVARD

SCALE: H: 1" = 50' V: 1" = 5'

STORMWATER POND NOTE

ANY FILL THAT IS SPECIFIC A NECESSARY INSPECTION, SAID INSPECTION IS TO BE PERFORMED BY THE GEOTECHNICAL ENGINEER

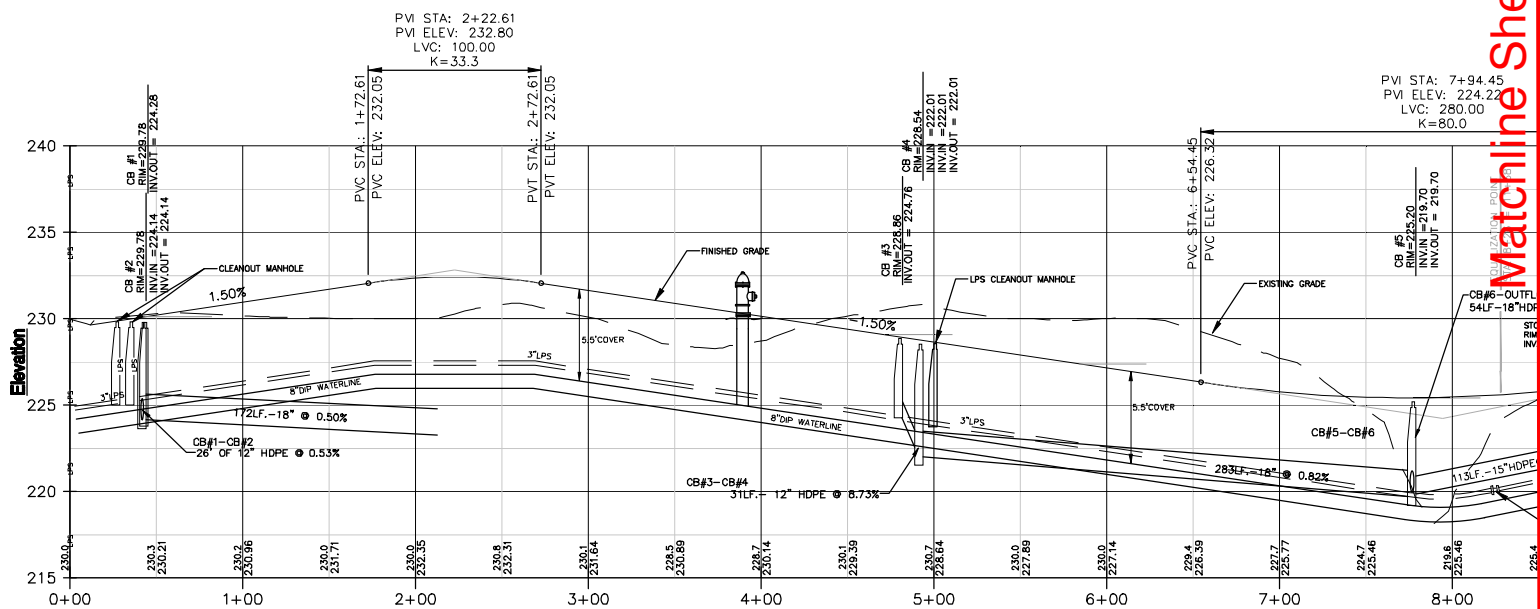


UTILITY MAP REFERENCES

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1 PLAN - CARRINGTON COURT

SCALE: 1" = 50'



2 PROFILE - CARRINGTON COURT

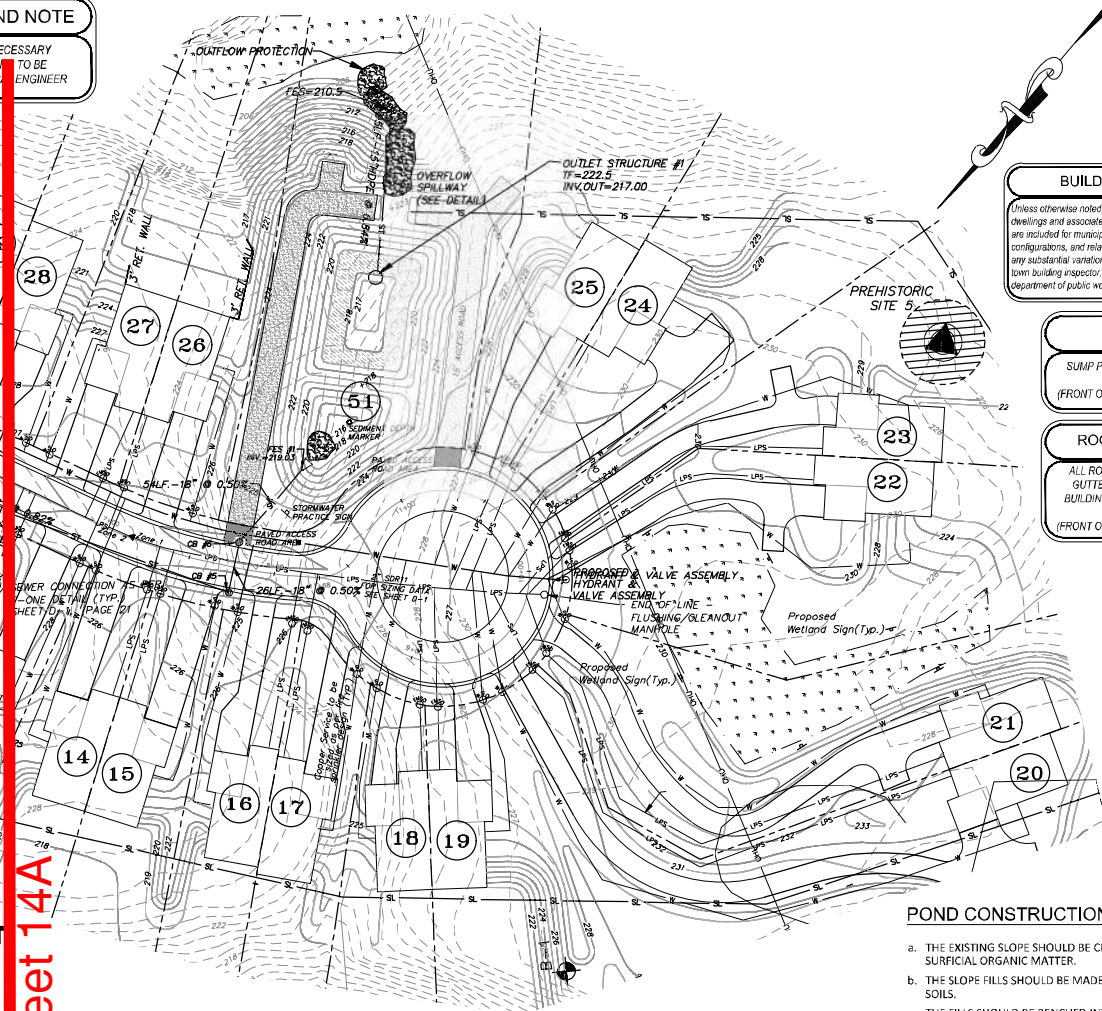
SCALE: H: 1" = 50' V: 1" = 5'

Matchline Sheet 14B

AND NOTE

NECESSARY
TO BE
ENGINEER

Matching Sheet 14A



BUILDING FOOTPRINT NOTE

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SUMP PUMP NOTE

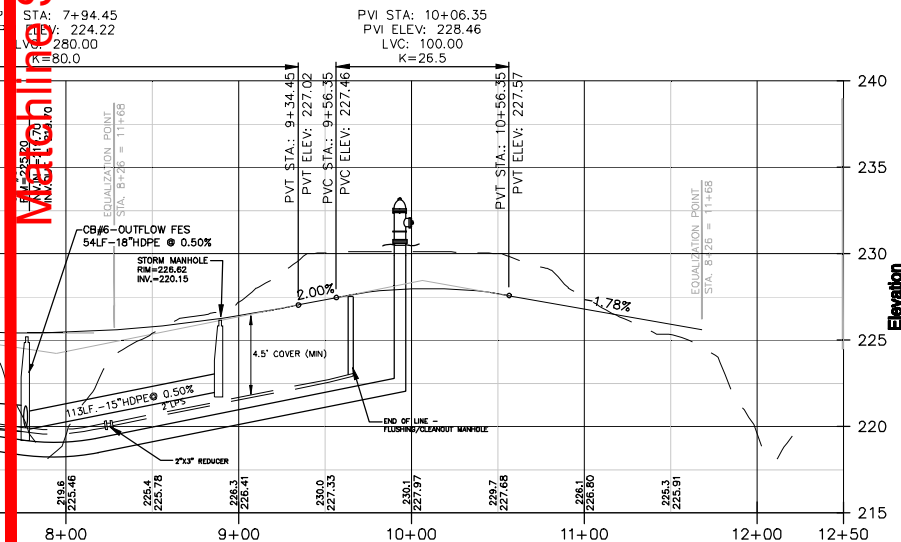
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ROOF DRAIN (GUTTER) NOTE

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POND CONSTRUCTION PROCEDURE NOTE

- THE EXISTING SLOPE SHOULD BE CLEARED AND STRIPPED OF TOPSOIL AND SURFICIAL ORGANIC MATTER.
- THE SLOPE FILLS SHOULD BE MADE USING ON-SITE CLAY (USCS GROUP CL OR SOILS).
- THE FILLS SHOULD BE BENCHMARKED INTO THE EXISTING SLOPE IN MAXIMUM TWO FEET HIGH BENCHES.
- THE FILLS SHOULD BE PLACED IN MAXIMUM EIGHT (8) INCH THICK LOOSE LIFTS. EACH LIFT SHOULD BE COMPACTED USING A SHEEP-FOOT ROLLER TO AT LEAST 92 PERCENT OF THE MATERIAL'S MAXIMUM DRY DENSITY AND WITHIN ONE (1) PERCENT BELOW TO THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST, ASTM D698.
- THE BOTTOM AND SIDES OF THE BASIN SHOULD CONSIST OF A LEAST TWELVE (12) INCHES OF CLAY (USCS GROUP CL OR CH) WHICH IS COMPACTED USING A SHEEP-FOOT ROLLER TO THE DENSITY AND MOISTURE CONTENTS SPECIFIED ABOVE.
- THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE SUBGRADE DURING CONSTRUCTION OF THE BASIN TO CONFIRM THE CONDITIONS EXPOSED ARE CONSISTENT WITH THOSE EXPECTED.
- A THICK VEGETATIVE COVER OR OTHER APPROPRIATE PROTECTION WILL BE INSTALLED ON ALL FINAL CUT AND FILL SLOPES AND ANY DISTURBED AREAS TO INHIBIT EROSION.
- THE TOWN SHALL BE PROVIDED A COPY OF THE GEOTECHNICAL ENGINEER'S INSPECTION REPORTS WITHIN 5 DAYS OF COMPLETING THE INSPECTION.



Planning Board
HTE 16-00400001

Albany County DOH

Project:

PHILLIPIN KILL MANOR MAJOR SUBDIVISION PHASE - 1

TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK

APPLICANT:

WILLIAM J. CADE

Weston & Sampson

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Consultants:

Revisions:

No.	Date	Description
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7	09/13/21	REVISED PER TOWN COMMENTS

Seal:

Scale: 1" = 50'

Date: MARCH 30, 2018

Drawn By: CGC

Reviewed By: DTF

Approved By: DTF

W&S Project No: N2150091

XXX

Drawing Title:

UTILITY PLAN
AND PROFILE -
CARRINGTON
COURT

Sheet Number:

C-12
SHT. 14 OF 30

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Planning Board
HTE 16-00400001

Albany County DOH

POND CONSTRUCTION PROCEDURE NOTE

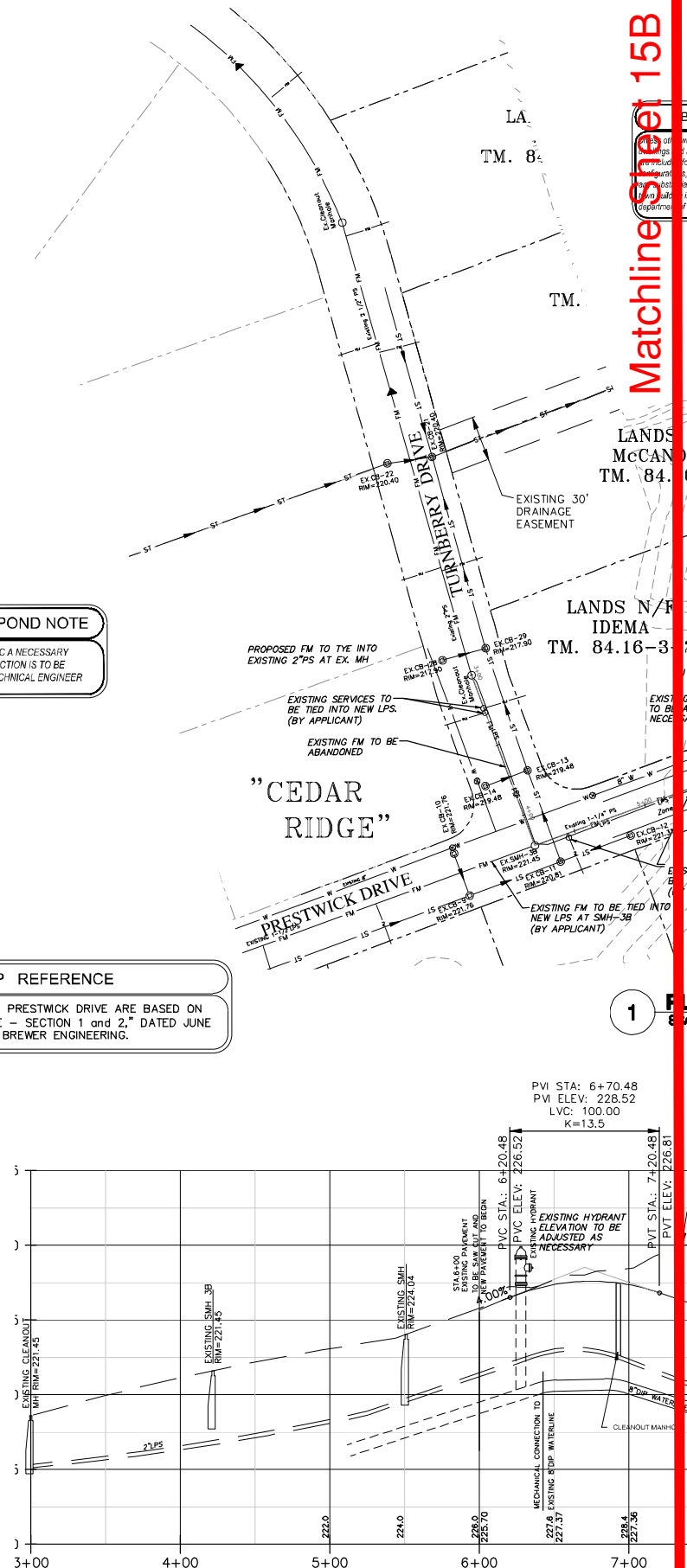
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STORMWATER POND NOTE

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UTILITY MAP REFERENCE

- EXISTING UTILITIES SHOWN IN PRESTWICK DRIVE ARE BASED ON MAP ENTITLED "CEDAR RIDGE - SECTION 1 AND 2," DATED JUNE 19, 1995, AS PREPARED BY BREWER ENGINEERING.



Matchline Sheet 15B

Matchline Sheet 15A

SUMP PUMP NOTE
SUMP PUMP DRAINAGE TO DAYLIGHT AT FRONT OF BUILDING. SEE DETAIL SHEET 25 (FRONT OF ALL LOTS ARE GRADED TOWARD THE ROAD)

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Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**

**TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK**

APPLICANT:
WILLIAM J. CADE

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4	01/04/21	REVISED PER TOWN COMMENTS
5	06/14/21	REVISED PER TOWN COMMENTS
6	06/29/21	REVISED PER TOWN COMMENTS
7	09/13/21	REVISED PER TOWN COMMENTS

Seal:

Scale: 1" = 50'

Date: MARCH 30, 2018

Drawn By: CGC

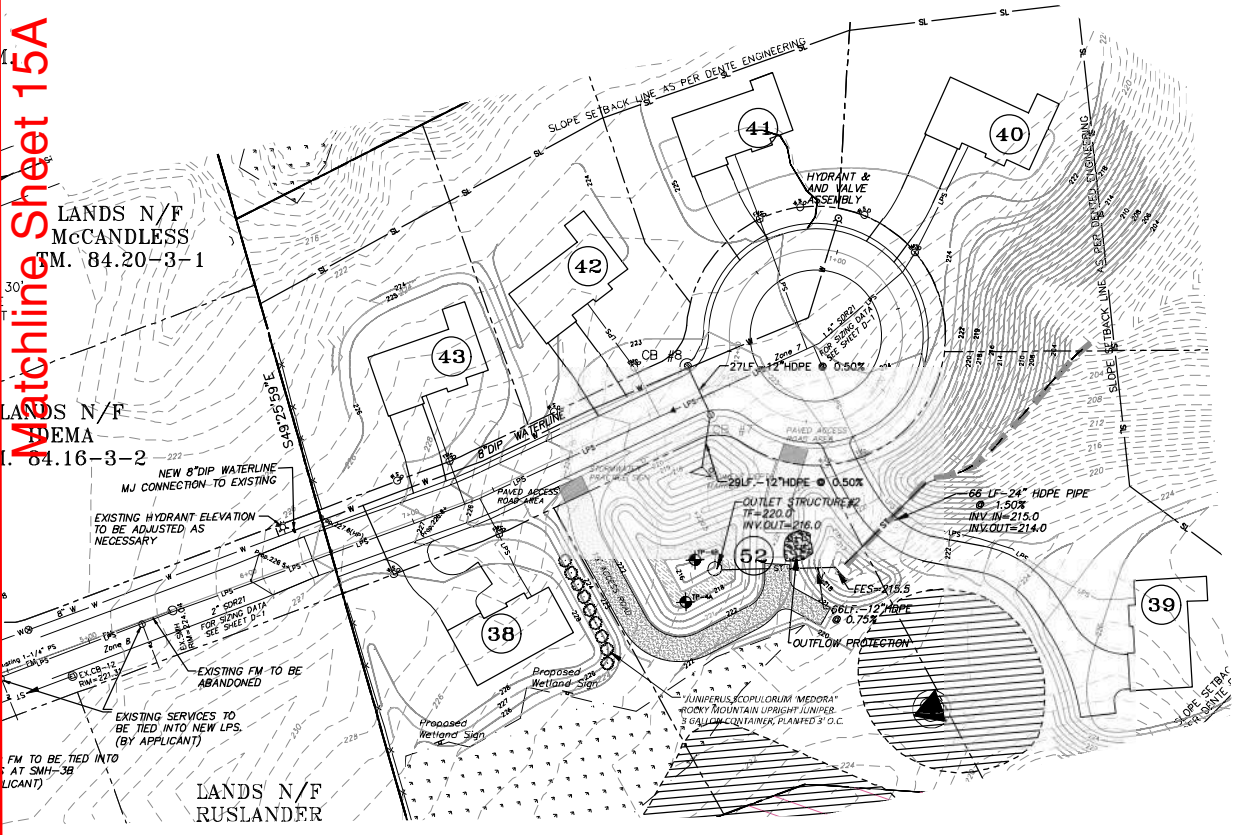
Reviewed By: DTF

Approved By: DTF

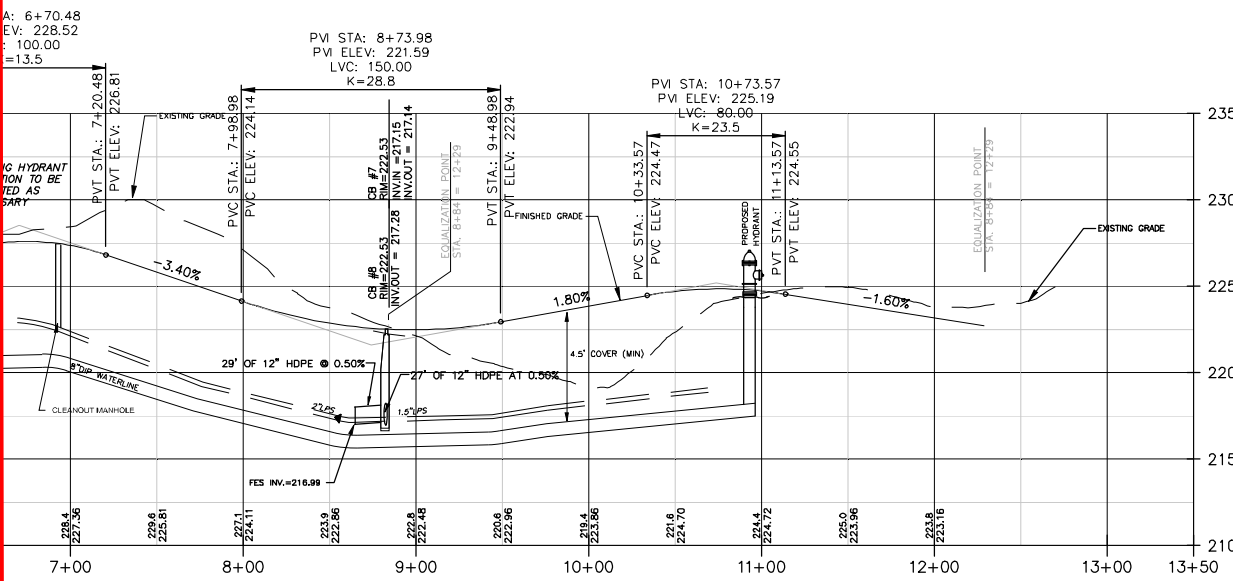
W&S Project No: N2150091

Drawing Title:
**UTILITY PLAN
AND PROFILE -
PRESTWICK
DRIVE**

Sheet Number:
C-13
SHT. 15 OF 30



1 PLAN - PRESTWICK DRIVE
SCALE: 1" = 50'



2 PROFILE - PRESTWICK DRIVE
SCALE: H: 1"=50' V: 1"=5'

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"FISHER
HOLLOW"

LANDS N/F
O'NEIL
TM. 84.16-3-24

NEW 16"XB" TAPPING
SLEEVE AND VALVE

STABILIZED
CONSTRUCTION
ENTRANCE

LANDS N/F
BRAD
TM. 84.16-3-29

CONCRETE
WASHOUT

LANDS N/F
MOLINO
TM. 84.16-3-30

LANDS N/F
ROSENBLATT
TM. 84.16-3-31

LANDS N/F
HILDRETH
TM. 84.00-3-14

STABILIZED
CONSTRUCTION
ENTRANCE
(DETAIL SHT.D-2)

CONCRETE
WASHOUT
(DETAIL SHT.D-2)

SOIL
STOCKPILE
AREA

WETLAND TO BE
PROTECTED (TYP)

SILT FENCE. INSTALL
PARALLEL TO
CONTOURS. (TYP)

SILT FENCE. INSTALL
PARALLEL TO
CONTOURS. (TYP)

INLET PROTECTION (TYP)

INLET PROTECTION (TYP)

CARRINGTON COURT

TYPICAL GUTTER
ROUTING

DOWNSPOUT
(TYPICAL)

SILT FENCE. IN
PARALLEL
CONTOURS

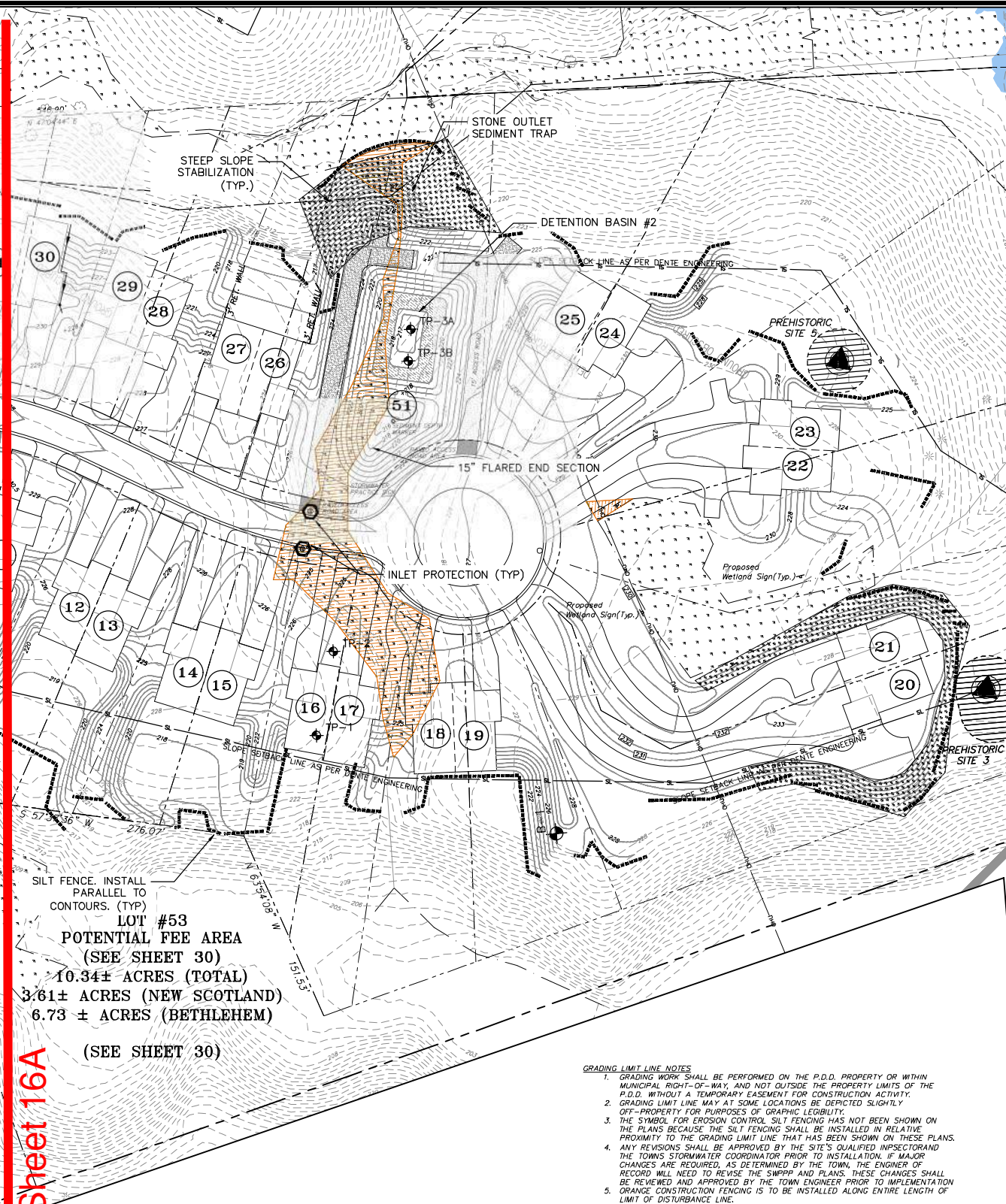
POTENTIAL
(SE)
10.34±
3.61± ACR
6.73 ± A

LANDS OF
CAROL A. RICH
L. 2482, P. 3

Matchline Sheet 16B

Planning B
HTE 16-0040

Matchline Sheet 16A



Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**

**TOWN OF BETHLEHEM
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NEW YORK**

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7	09/13/21	REVISED PER TOWN COMMENTS

Seal:

Scale: 1" = 50'

Date: MARCH 30, 2018

Drawn By: ZAL

Reviewed By: DTF

Approved By: DTF

W&S Project No: N2150091

Drawing Title:

**EROSION AND
SEDIMENT
CONTROL PLAN -
CARRINGTON
COURT**

Sheet Number:

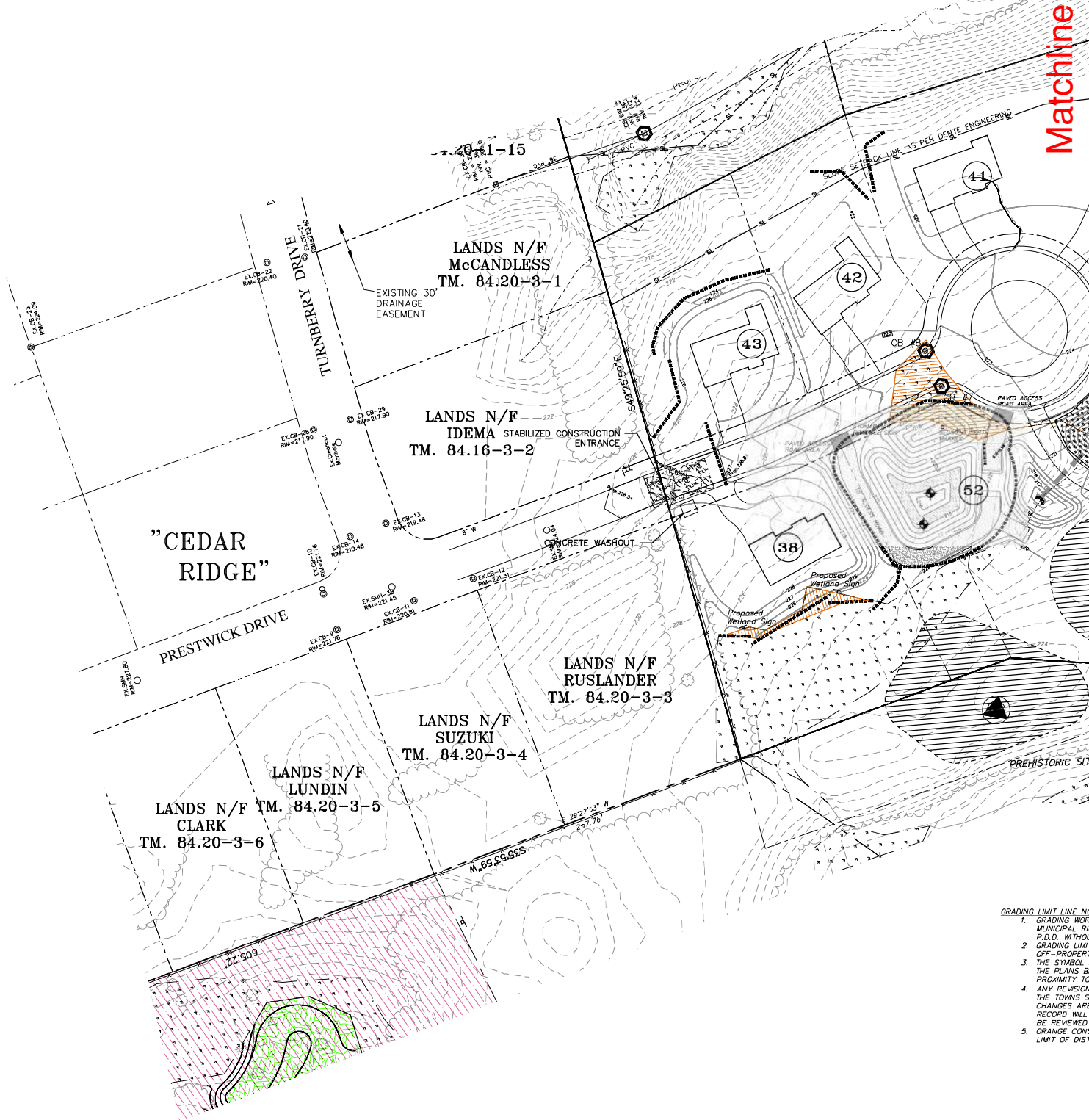
C-14

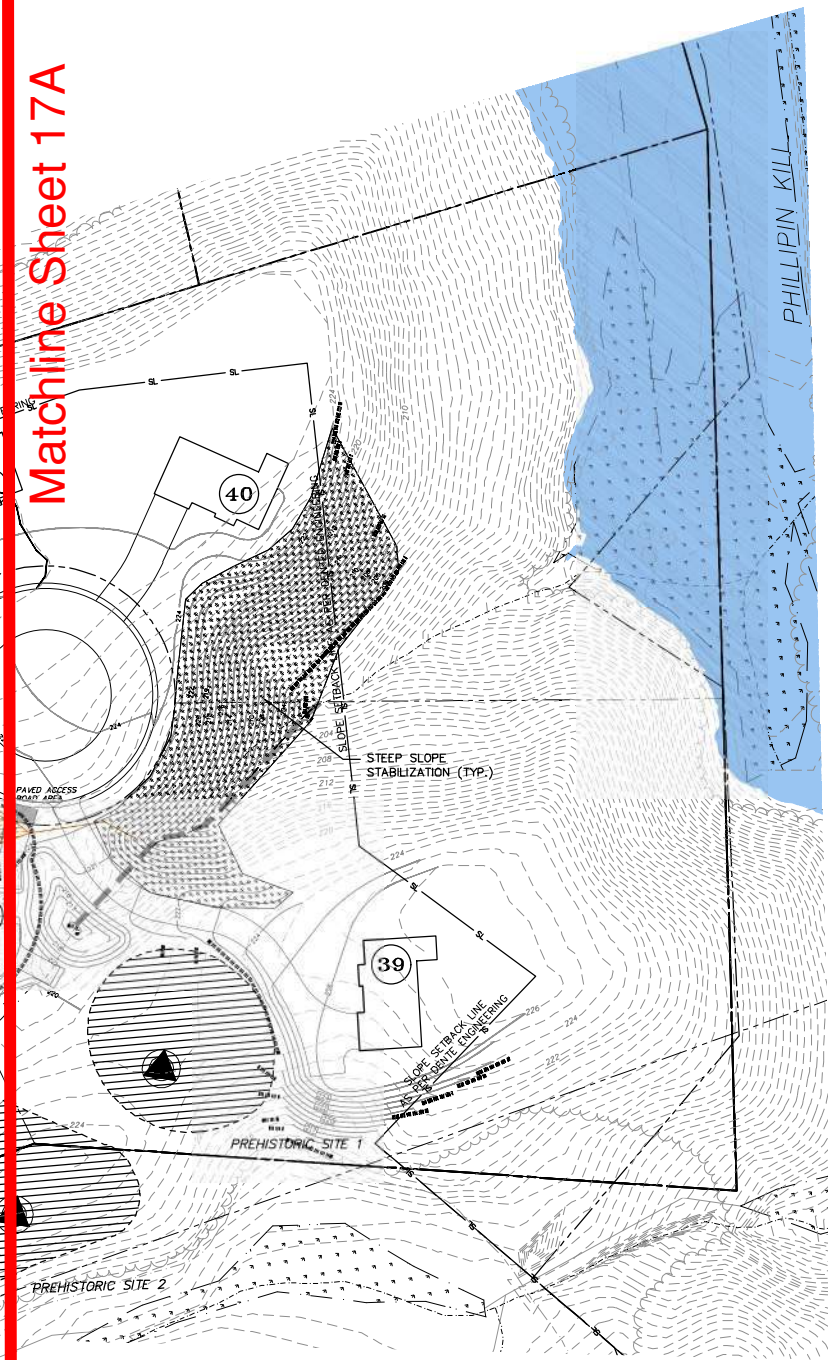
SHT. 16 OF 30

Planning Board
HTE 16-00400001

Albany County DOH

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Approved By: DTF

W&S Project No: N2150091

Drawing Title:

**EROSION AND
SEDIMENT
CONTROL PLAN -
PRESTWICK
DRIVE**

Sheet Number:

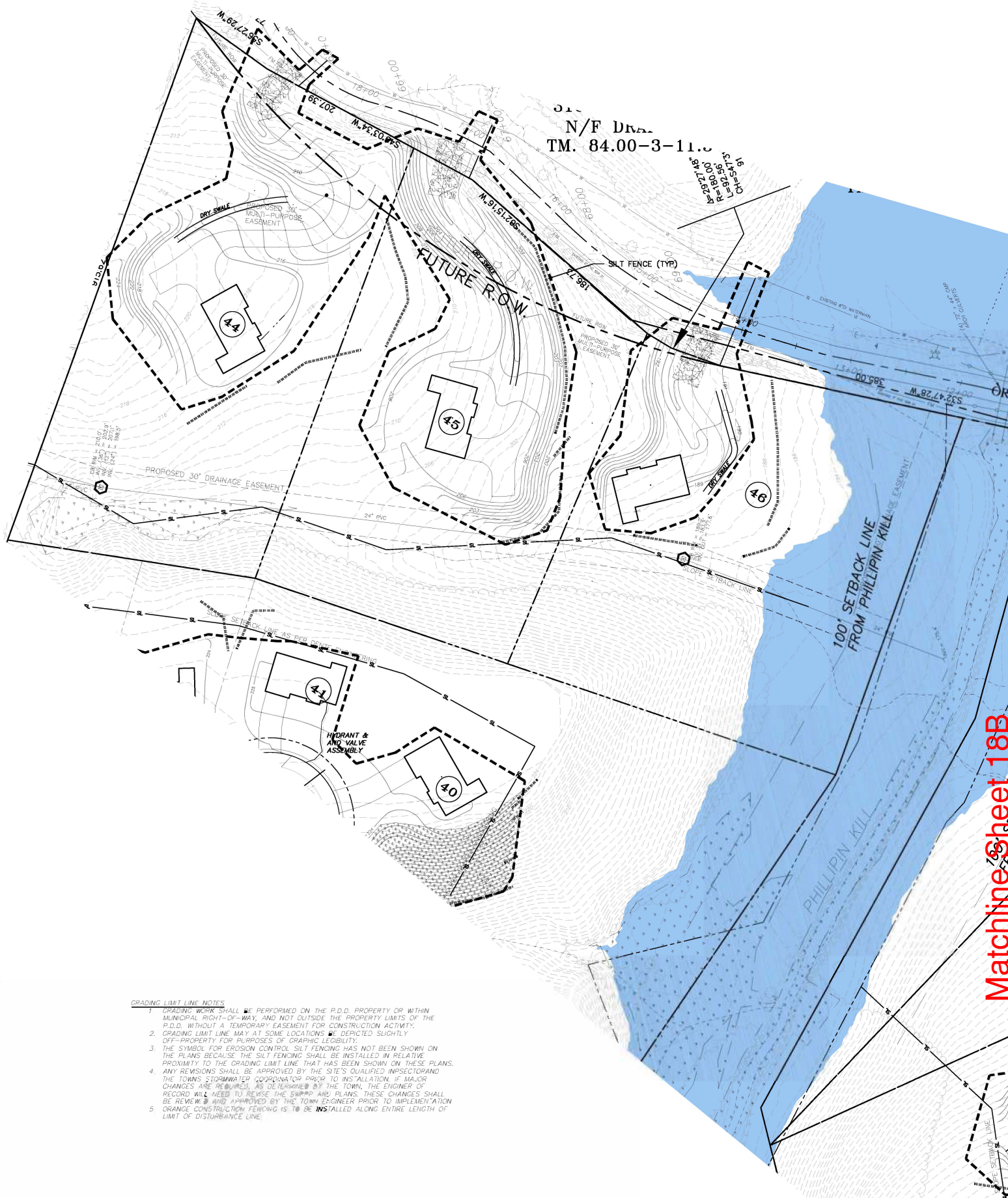
C-15
SH. 17 OF 30

- GRADING LIMIT LINE NOTES
1. GRADING WORK SHALL BE PERFORMED ON THE P.D.D. PROPERTY OR WITHIN MUNICIPAL RIGHT-OF-WAY, AND NOT OUTSIDE THE PROPERTY LIMITS OF THE P.D.D. WITHOUT A TEMPORARY EASEMENT FOR CONSTRUCTION ACTIVITY.
 2. GRADING LIMIT LINE MAY AT SOME LOCATIONS BE DEPICTED SLIGHTLY OFF-PROPERTY FOR PURPOSES OF GRAPHIC LEGIBILITY.
 3. THE SYMBOL FOR EROSION CONTROL SILT FENCING HAS NOT BEEN SHOWN ON THE PLANS BECAUSE THE SILT FENCING SHALL BE INSTALLED IN RELATIVE PROXIMITY TO THE GRADING LIMIT LINE THAT HAS BEEN SHOWN ON THESE PLANS.
 4. ANY REVISIONS SHALL BE APPROVED BY THE SITE'S QUALIFIED INSPECTOR AND THE TOWN'S STORMWATER COORDINATOR PRIOR TO INSTALLATION. IF MAJOR CHANGES ARE REQUIRED, AS DETERMINED BY THE TOWN, THE ENGINEER OF RECORD WILL NEED TO REVISE THE SWPPP AND PLANS. THESE CHANGES SHALL BE REVIEWED AND APPROVED BY THE TOWN ENGINEER PRIOR TO IMPLEMENTATION.
 5. ORANGE CONSTRUCTION FENCING IS TO BE INSTALLED ALONG ENTIRE LENGTH OF LIMIT OF DISTURBANCE LINE.

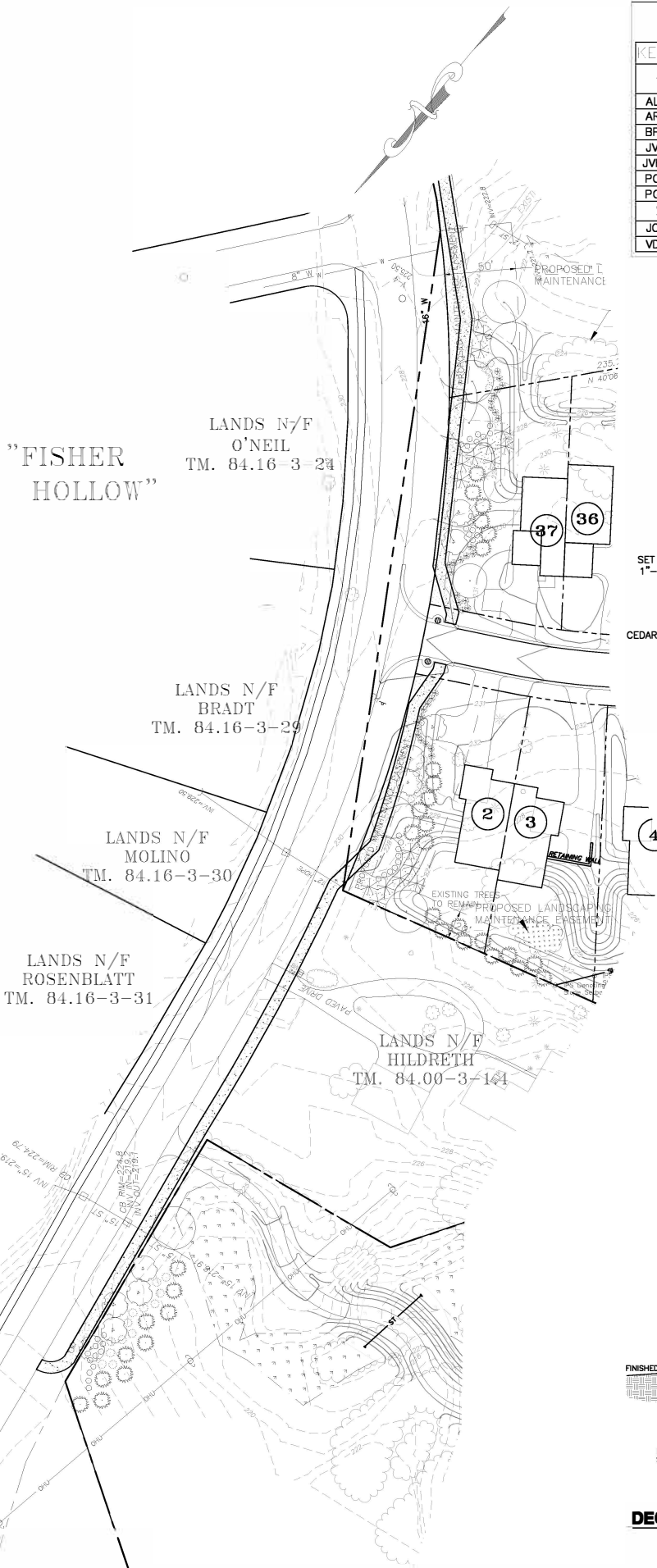
Planning Board
HTE 16-00400001

Albany County DOH

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Matchlines Sheet 18B

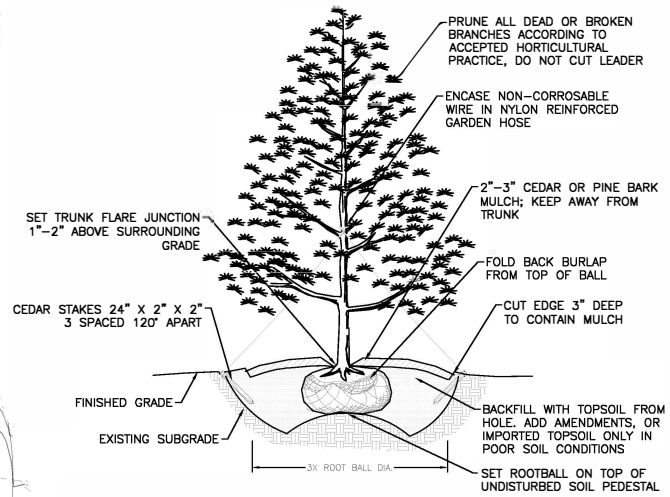


PLANTING SCHEDULE

KEY	BOTANIC NAME	COMMON NAME	QUANTITY
TREES			
AL	AMELANCHIER LAEVIS 'CUMULUS'	ALLEGHENY SERVICEBERRY	2
AR	ACER RUBRUM 'AUTUMN FLAME'	AUTUMN FLAME RED MAPLE	5
BP	BETULA PLATYPHYLLA JAPONICA 'WHITESPIRE'	WHITESPIRE BIRCH	10
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	17
JVH	JUNIPERUS VIRGINIANA 'HILLSPIRE'	COLUMNAR EASTERN RED CEDAR	33
PC	PYRUS CALLERYANA 'ARISTOCRAT'	ARISTOCRAT FLOWERING PEAR	3
PG	PICEA GLAUCA	WHITE SPRUCE	33
SHRUBS			
JC	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	25
VD	VIBURNUM DENTATUM 'BLUE MUFFIN'	BLUE MUFFIN VIBURNUM	37

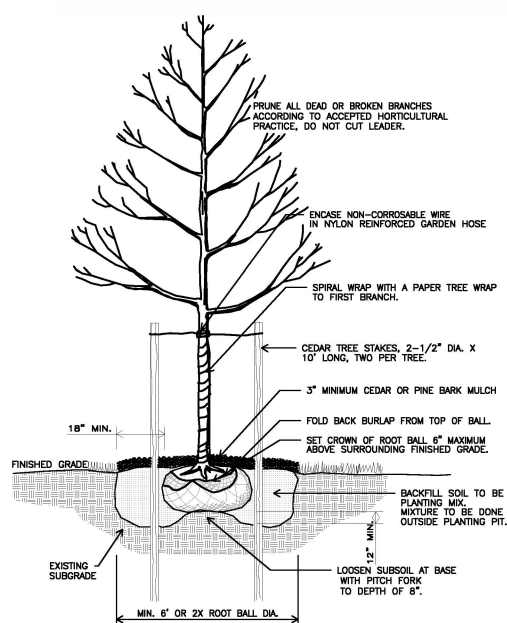
PLANTING SCHEDULE ALONG FISHER BLVD

SCALE: NO SCALE



EVERGREEN TREE PLANTING DETAIL

SCALE: NO SCALE



DECIDUOUS TREE PLANTING DETAIL

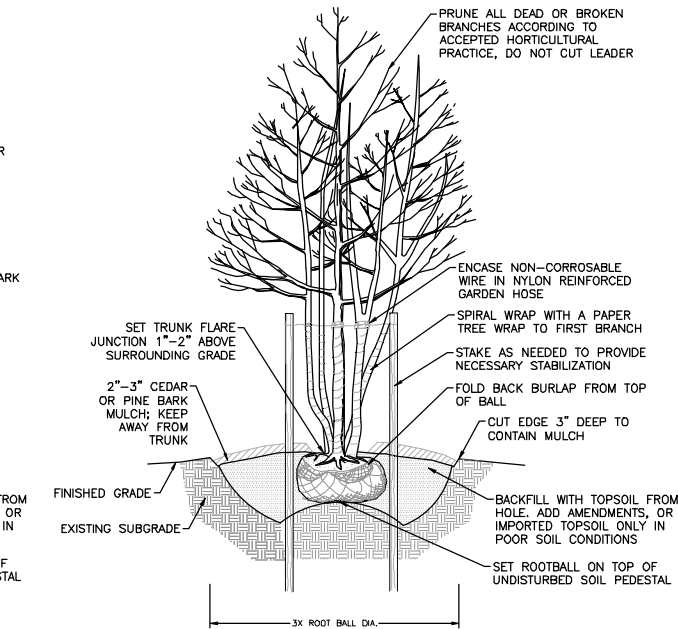
N.T.S.

Matchline Sheet 21B

SCHEDULE

	QUANTITY	SIZE	REMARKS
	2	2"-2.5" CAL.	SINGLE TRUNK, B&B, 20'+ O.C.
	5	2"-2.5" CAL.	HIGH BRANCHED, B&B, 25'+ O.C.
	10	10'-11' HT.	CLUMP FORM, B&B, 20'-25' O.C.
	17	6'-7' TALL	FULL BRANCHING TO BASE, B&B, 12' O.C.
CEDAR	33	4'-5' TALL	FULL BRANCHING TO BASE, B&B, 5' O.C.
AR	3	2"-2.5" CAL.	HIGH BRANCHED, B&B, 25'+ O.C.
	33	7'-8' HT.	UNIFORMLY BRANCHED, B&B, 12'-15' O.C.
	25	24"-30"	B&B, CONTAINER, 8' O.C.
	37	24"-30"	CONTAINER, UNIFORM BRANCHING, 5' O.C.

FISHER BOULEVARD



MULTI-STEMMED TREE PLANTING DETAIL
SCALE: NO SCALE

PROTECTION OF TREES

PROTECT EXISTING TREES WHICH ARE TO REMAIN AND WHICH MAY BE INJURED, BRUISED, DEFACED, OR OTHERWISE DAMAGED BY CONSTRUCTION OPERATIONS, UTILIZING STANDARD TREE PROTECTION CRITERIA INCLUDING:

- A. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND INDIVIDUAL TREES DESIGNED FOR PROTECTION. FENCING SHALL BE INSTALLED AT THE OUTWARD LIMIT OF THE TREE'S DRIPLINE OR EXTENT OF CANOPY COVER.
- B. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND GROUPS OF TREES DESIGNATED FOR PROTECTION.
- C. TREE AND/OR SHRUB BRANCHES IN THE WAY OF EQUIPMENT SHALL BE TRIMMED ACCORDING TO PROFESSIONAL HORTICULTURAL STANDARDS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR AND SUB-CONTRACTORS USE EQUIPMENT TO DEMOLISH BRANCHES AS WORK PROCEEDS.

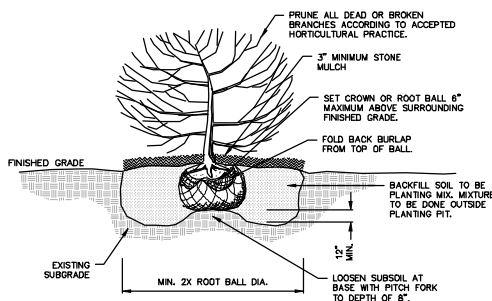
REQUIRED FENCING SHALL BE INSTALLED PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION. REMOVE DISPLACED ROCKS FROM UNCLEARED AREAS, BY APPROVED EXCAVATION. REMOVE TREES WITH 30 PERCENT OR MORE OF THEIR ROOT SYSTEMS DESTROYED. REMOVAL OF TREES AND THE PROCEDURE FOR REMOVAL REQUIRES APPROVAL OF THE CONTRACTING OFFICER. TREES DESIGNATED FOR REMOVAL SHALL BE REMOVED IN A MANNER THAT WILL NOT IMPACT ADJACENT TREES.

LANDSCAPE REPLACEMENT:

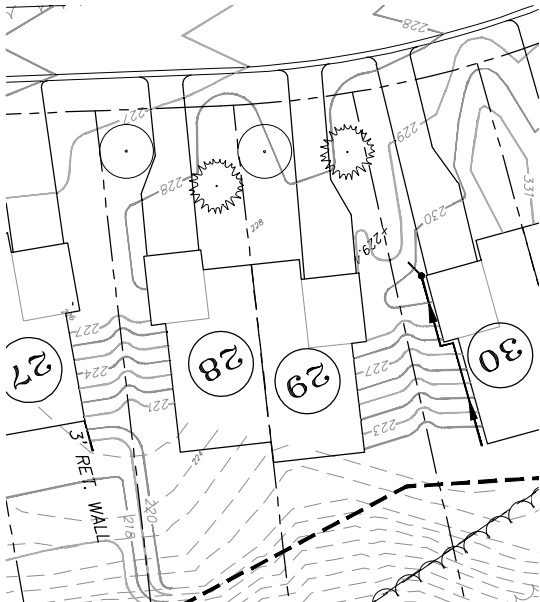
REMOVE TREES AND OTHER LANDSCAPE FEATURES SCARRED OR DAMAGED BY EQUIPMENT OPERATIONS, AND REPLACE WITH EQUIVALENT, UNDAUNTED TREES AND LANDSCAPE FEATURES. OBTAIN CONTRACTING OFFICER'S APPROVAL BEFORE REPLACEMENT. REPLACEMENT OF TREES SHALL OCCUR ON A ONE-TO-ONE BASIS. REGIONALLY NATIVE PLANTS AS SPECIFIED BY THE STATION "INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN" (INRMP) SHALL BE USED AS REPLACEMENT LANDSCAPE FEATURES.

PROTECTION OF TREES

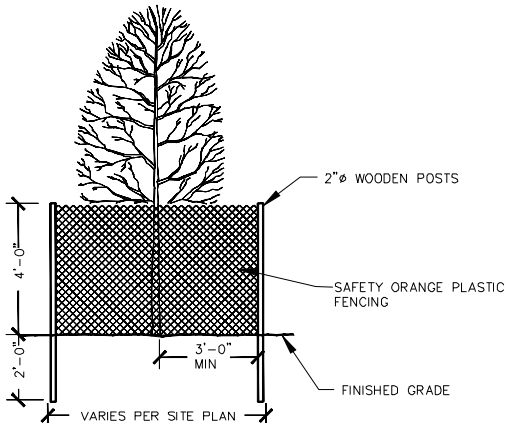
Matchline Sheet 21A



SHRUB PLANTING DETAIL
N.T.S.



TYPICAL LOT PLANTING DETAIL
SCALE: 1"=30'



NOTES:

- 1. OUTSIDE EDGE OF GUARD SHOULD BE PLACED AT DRIPLINE. GUARDS MAY BE PLACED AROUND SINGLE TREES OR GROUPS OF TREES.

TREE PROTECTION DETAIL
SCALE: NO SCALE

Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**
**TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK**
APPLICANT:
WILLIAM J. CADE

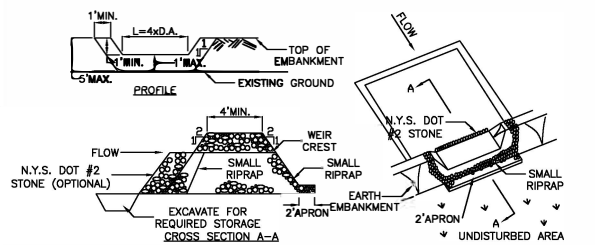
Weston & Sampson
WESTON & SAMPSON, PE, LS, LA, PC
1 Winners Circle, Suite 130, Albany, NY 12205
518.463.4400 800.SAMPSON
www.westonandsampson.com

Consultants:

No.	Date	Description
1	11/22/19	REVISED PER TOWN COMMENTS
2	02/26/20	REVISED PER TOWN COMMENTS
3	09/02/20	REVISED PER TOWN COMMENTS
4	01/04/20	REVISED PER TOWN COMMENTS
5	06/14/21	REVISED PER TOWN COMMENTS
6	08/29/21	REVISED PER TOWN COMMENTS
7	09/13/21	REVISED PER TOWN COMMENTS

Seal:
Scale: 1" = 50'
Date: MARCH 30, 2018
Drawn By: ZAK
Reviewed By: CGC
Approved By: JFB
W&S Project No N2150691

Drawing Title:
**LANDSCAPING
PLAN**
Sheet Number:
C-19
SHT. 21 OF 30



OPTION: A ONE FOOT LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP IN PLACE OF THE EMBEDDED FILTER CLOTH.

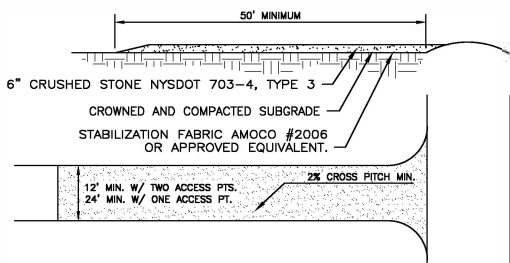
CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1" THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. IT SHALL BE PLACED ON SITE AND STABILIZED.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

MAXIMUM DRAINAGE AREA 5 ACRES

STONE OUTLET SEDIMENT TRAP

SCALE: NO SCALE

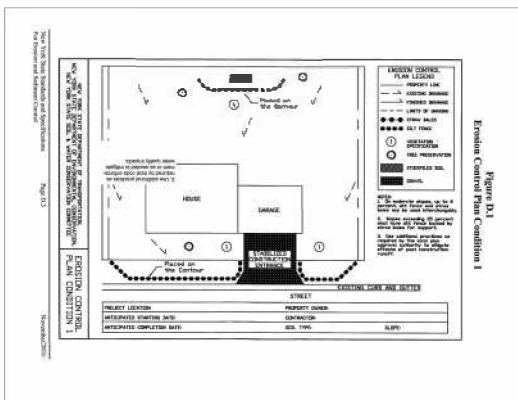


NOTES:

1. STABILIZATION FABRIC SHALL BE PLACED OVER THE ENTIRE ENTRANCE AREA PRIOR TO PLACING OF STONE. OVERLAP FABRIC PER MANUFACTURER'S SPECIFICATIONS.
2. ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE ROAD.
3. WHEN EQUIPMENT WASHING IS REQUIRED IT SHALL BE DONE ON A SEPARATE AREA ADJACENT TO THE ENTRANCE ROAD AND STABILIZED WITH STONE. EQUIPMENT WASHING WILL BE REQUIRED IF ROAD RECEIVES SIGNIFICANT SOILS OR DEBRIS ACCORDING TO JUDGMENT BY OWNER OR OWNER'S REPRESENTATIVE.
4. KEEP ROADS CLEAR OF STONES, MULCH, AND OTHER CONSTRUCTION DEBRIS. CLEAN PAVEMENT AS ACCUMULATIONS WARRANT AND AS ORDERED BY ENGINEER.
5. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO DRAINAGE SYSTEM OR TOPSOIL/RESTORATION AREAS.

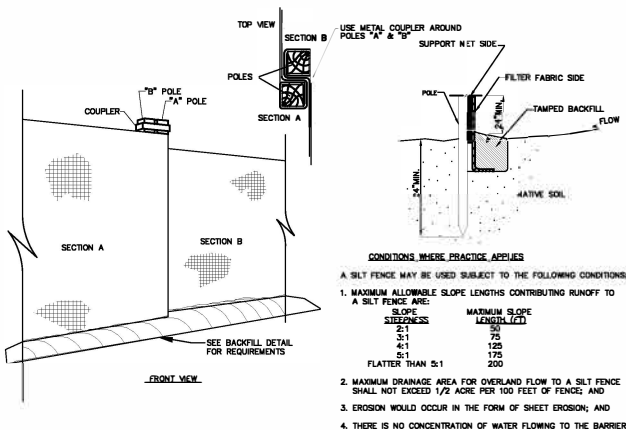
STABILIZED CONSTRUCTION ENTRANCE

SCALE: NO SCALE



E&S CONTROL PLAN FOR SMALL HOMESITE CONSTRUCTION

SCALE: NO SCALE



TEMPORARY SILT FENCE SOIL EROSION CONTROL

SCALE: NO SCALE

EROSION & SEDIMENT CONTROL NOTES

1. CONTRACTOR SHALL REFER TO STORMWATER POLLUTION PREVENTION PLAN [SWPPP] THAT WAS PREPARED FOR THIS PROJECT.
2. ALL EROSION & SEDIMENT CONTROL MEASURES SHALL ADHERE TO THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). ALL APPROPRIATE STORMWATER CONTROL MEASURES IDENTIFIED IN THE SWPPP SHALL BE IN PLACE BEFORE COMMENCING CONSTRUCTION OF ANY SEGMENT OF THE PROJECT THAT REQUIRES THESE MEASURES.
3. INSPECTIONS: THE OPERATOR SHALL HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION & CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION & SEDIMENT CONTROLS DESCRIBED IN THE SWPPP HAVE BEEN ADEQUATELY INSTALLED OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR THE COMMENCEMENT OF CONSTRUCTION. FOLLOWING THE COMMENCEMENT OF CONSTRUCTION, SITE INSPECTIONS SHALL BE CONDUCTED BY THE QUALIFIED PROFESSIONAL AT LEAST EVERY 7 CALENDAR DAYS & WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. INSPECTIONS SHALL LOOK FOR EVIDENCE OF SOIL EROSION ON THE SITE, POTENTIAL OF POLLUTANTS ENTERING DRAINAGE SYSTEMS, PROBLEMS AT DISCHARGE POINTS, I.E., TURBIDITY IN RECEIVING WATERS, & SIGNS OF SOIL & MUD TRANSPORT FROM THE SITE INTO PUBLIC ROADWAYS. REPAIRS & CLEANING SHALL BE MADE IMMEDIATELY.
4. SITE LOG/CERTIFICATION: THE OPERATOR MUST MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOG BOOK. THE SITE LOG BOOK MUST BE MAINTAINED ON-SITE & BE MADE AVAILABLE TO THE PERMITTING AUTHORITY UPON REQUEST.
5. STABILIZATION: THE OPERATOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE ON PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
6. MAINTENANCE: SEDIMENT SHALL BE REMOVED FROM TEMPORARY SEDIMENT TRAPS OR PONDS WHENEVER THEIR CAPACITY HAS BEEN REDUCED BY 50% OF THE DESIGN CAPACITY. INSTALL ADDITIONAL SEDIMENT TRAPS & BARRIERS AS NEEDED DURING CONSTRUCTION.
7. CONTRACTOR SHALL ESTABLISH A TEMPORARY STABILIZED CONSTRUCTION ENTRANCE TO CAPTURE MUD & DEBRIS FROM CONSTRUCTION VEHICLES BEFORE THEY ENTER A PUBLIC ROADWAY, AS DETAILED. SEDIMENT TRACKED ONTO THE ROADWAYS SHALL BE REMOVED OR CLEANED ON A DAILY BASIS. ALL BARE AREAS, E.G., ENTRANCES, CONSTRUCTION ROUTES, & EQUIPMENT PARKING AREAS, SHALL BE STABILIZED IMMEDIATELY AS CONSTRUCTION TAKES PLACE. PLACE GRAVEL ON THESE AREAS OR MAINTAIN THE EXISTING VEGETATIVE COVER.
8. TEMPORARY CONSTRUCTION SILT FENCES, STRAW BALE DIKES, OR TRIANGULAR SILT DIKES SHALL BE PLACED ON OR PARALLEL TO CONTOURS WHERE THERE IS NO CONCENTRATION OF STORMWATER RUNOFF FLOWING TO THEM & WHERE EROSION OCCURS IN THE FORM OF SHEET EROSION, AS DETAILED. THE AREA BELOW THESE TEMPORARY STRUCTURAL MEASURES SHOULD BE UNDISTURBED/UNEXCAVATED EARTH.
9. DIVERT OFFSITE OR CLEAN STORMWATER RUNOFF FROM DISTURBED AREAS. CONVEY RUNOFF FROM HIGHLY ERODIBLE SOILS & STEEP SLOPES TO MORE SUITABLE STABLE AREAS. INSTALL TRIANGULAR SILT DIKES TO REDUCE THE VELOCITY OF CONCENTRATED RUNOFF.
10. LIMIT ALL CLEARING & EXCAVATION ACTIVITIES TO MAINTAIN EXISTING VEGETATIVE COVER AS MUCH AS PRACTICABLE. TOPSOIL SHALL BE STOCKPILED, PROTECTED, & STABILIZED IN AN AREA LOCATED AWAY FROM DRAINAGE CHANNELS.
11. WHEN ACTIVITIES TEMPORARILY CEASE DURING CONSTRUCTION, SOIL STOCKPILES & EXPOSED SOIL SHALL BE STABILIZED BY SEED, MULCH, OR OTHER APPROPRIATE MEASURES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED. PERMANENT VEGETATION & LANDSCAPING SHALL BE INSTALLED IMMEDIATELY FOLLOWING FINAL GRADING.
12. NO GRADING, FILLING, OR OTHER DISTURBANCE IS ALLOWED WITHIN EXISTING DRAINAGE SWALES, UNLESS INDICATED ON THE GRADING PLANS.
13. BACKFILL & STABILIZE ALL UTILITY TRENCHES DAILY.
14. SEEDING:
 - A. SOW GRASS SEED BETWEEN APRIL 1 & MAY 15TH OR BETWEEN AUGUST 15TH & OCTOBER 15TH, EXCEPT AS OTHERWISE APPROVED IN WRITING BY THE ENGINEER. NO SEEDING SHALL OCCUR ON FROZEN GROUND, HIGHLY MUDDY SOILS, OR DURING EXTREME HEAT OR DROUGHT CONDITIONS.
 - B. SEED MIXTURE: 40% FENWAY RED FESCUE, 30% ABBEY KENTUCKY BLUEGRASS BLEND, 20% DEVINE PERENNIAL RYE, & 10% ENCHANTED PERENNIAL RYE. PROVIDE SEED MIXTURE EQUAL TO SCOTT'S PURE PREMIUM SUN & SHADE NORTH GRASS SEED MIXTURE, OR APPROVED EQUIVALENT. VARIETY MAY BE ALTERED DEPENDING ON AVAILABILITY OF SEED FROM MANUFACTURER.
15. TOPSOIL:
 - A. PROVIDE TOPSOIL FROM EXISTING STOCKPILES STRIPPED FROM THE PROJECT SITE & APPROVED BY THE ENGINEER. IF REQUIRED, PROVIDE ADDITIONAL TOPSOIL CONFORMING TO THE FOLLOWING:
 - B. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE & OF UNIFORM GRADE, WITHOUT THE ADJUNCTION OF SUBSOIL MATERIAL & ENTIRELY FREE OF DENSE MATERIAL, HARDPAN, SOD, OR ANY OTHER OBJECTIONABLE FOREIGN MATERIAL.
 - C. CONTAINING NOT LESS THAN 4% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLE PASSING A 1/4 INCH SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105 DEGREES C.
 - D. CONTAINING A PH VALUE WITHIN THE RANGE OF 4.5 TO 7.0 ON THAT PORTION OF THE SAMPLE THAT PASSES A 1/4 INCH SIEVE.
16. FERTILIZER:
 - A. MIXED COMMERCIAL FERTILIZERS SHALL CONTAIN TOTAL NITROGEN, AVAILABLE PHOSPHORIC ACID & SOLUBLE POTASH IN THE RATIO OF 10-6-4 (50% N/P/K). 50% OF TOTAL NITROGEN SHALL BE DERIVED FROM UREA-FORM FURNISHING A MINIMUM OF 3.5% WATER INSOLUBLE NITROGEN (3.5% WMN). THE BALANCE OF THE NITROGEN SHALL BE PRESENT AS METHYLENE UREA, WATER-SOLUBLE UREA, NITRATE & AMMONIACAL COMPOUNDS. OTHER FERTILIZERS MEETING NYSOT SPECIFICATION SECTION 713-03 FERTILIZER CAN BE USED.
17. MULCH:
 - A. DRY APPLICATION, STRAW: STALKS OF OATS, WHEAT, RYE OR OTHER APPROVED CROPS THAT ARE FREE OF NOXIOUS WEED SEEDS. WEIGHT SHALL BE BASED ON A 15% MOISTURE CONTENT.
 - B. HYDRO APPLICATION: COLORED WOOD CELLULOSE FIBER PRODUCT SPECIFICALLY DESIGNED FOR USE AS A HYDRO-MECHANICAL APPLIED MULCH, BY CONWED HYDRO MULCH, CONWED FIBERS, OR APPROVED EQUIVALENT.
18. JUTE MESH:
 - A. HEAVY JUTE EROSION CLOTH WITH 12 INCH LENGTHS OF NO. 11 GAGE WIRE BENT TO FORM A "U" WIRE STAPLE, BY JUTE PRODUCTS, INC., OR APPROVED EQUIVALENT.
19. EROSION CONTROL BLANKETS:
 - A. FOR USE IN PLACE OF MULCH ON SLOPES GREATER THAN 5% AS SHOWN ON THE PLANS. CONSISTING OF LIGHTWEIGHT PHOTODEGRADABLE POLYPROPYLENE NETS WITH AN APPROXIMATE WEIGHT OF 1.64 LBS/1,000 SQUARE FEET, DEGRADABLE THREAD, STRAW FIBER WITH AN APPROXIMATE WEIGHT OF 0.5 LBS/SQUARE YARD, WITH MANUFACTURER'S DOT STAPLE SYSTEM & 6 INCH BIOTAKE'S BIODEGRADABLE BLANKET PIN FASTENERS. USE DEGRADABLE DOUBLE NET STRAW BLANKET, PRODUCT NO. S150 BY NORTH AMERICAN GREENS, OR APPROVED EQUIVALENT.

1. ALL SOIL EROSION TO BE INSTALLED, DISTURBANCE, OR AND MAINTAINED IS ESTABLISHED.
2. ANY DISTURBED AREA MORE THAN 5 DA TRAFFIC, WILL MA
3. PERMANENT VEGETATION EXPOSED AREAS MULCH TO BE US A PERMANENT VE
4. A SUB-BASE COAR ROUGH GRADING ORDER TO STABIL TEMPORARY SEED OR A SUITABLE E PER ACRE.
5. ANY STEEP SLOPES BE BACKFILLED AT PROCEEDS (6.5% SLO
7. ALL EROSION WEEKLY AND AFTER IMMEDIATELY.
8. THE CONTRACTOR MAINTAINING SOIL UPON COMPLETION
9. ALL ROADWAY DIT PREVENT EROSION PROTECTION USED

CHANNEL SLOPE	REED C
0-5%	TALL F
0-5%	KENTUC
5-10%	GRASS-
5-10%	REED C
5-10%	TALL F
5-10%	KENTUC

STEEP SLOPE

ANCHORING METHOD OR MATERIAL	MINIMUM TO BE IN
1. PEG & TWINE	HAY OR S
2. MULCH NETTING	HAY OR S
3. WOOD CELLULOSE FIBER	HAY OR S
4. MULCH ANCHORING TOOL	HAY OR S
5. TACKIFIER	HAY OR S

FOR SLOPES GREATER THAN OR EQUAL TO 15% AS MANUFACTURED BY NORTH A

WINTER STAB

1. PREPARE A SNOW MANAGEMENT PLAN WITH WATER, REQUIRING CLEARED SNOW TO BE ACTIVITIES.
2. ENLARGE AND STABILIZE ACCESS POINTS MANAGEMENT ACTIVITIES MUST NOT DESTROY PRACTICES.
3. A MINIMUM 25 FOOT BUFFER SHALL BE MAINTAINED FROM THE EDGE OF THE DISTURBED AREA.
4. EDGES OF DISTURBED AREAS THAT DRAIN SILT FENCE, 5 FEET APART, INSTALLED ON SLOPES.
5. DRAINAGE STRUCTURES MUST BE KEPT OPEN DAMS, OR DEBRIS FROM PLOWING OPERATIONS SHALL BE REMOVED.
6. SEDIMENT BARRIERS MUST BE INSTALLED A SILT FENCE AND OTHER PRACTICES REQUIRED GROUND FREEZES.
7. SOIL STOCKPILES MUST BE PROTECTED BY MULCH, ROLLED STABILIZATION MATTING, OR AT LEAST 15 FEET FROM THE TOE OF THE LOOSE SOIL.
8. IN AREAS WHERE SOIL DISTURBANCE ACTIVITIES APPLICATION OF SOIL STABILIZATION MATERIALS BUSINESS DAY AND COMPLETED WITHIN THE USED ON ALL SLOPES 3 HORIZONTAL TO 1 VERTICAL.
9. IF STRAW MULCH ALONE IS USED FOR TEMPORARY STANDARD RATE OF 2 TONES PER ACRE, A MANUFACTURED MULCHES SHOULD BE APPLIED.
10. TO ENSURE ADEQUATE STABILIZATION OF DISTURBED SOIL SHOULD BE STABILIZED AT:
 - A. WORK WILL RESUME WITHIN 24 HOURS IN
 - B. THE WORK IS IN DISTURBED AREAS THAT TRENCHES, FOUNDATION EXCAVATIONS, C
11. USE STONE PATHS TO STABILIZE ACCESS AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS IN WIDTH BUT WIDER AS NECESSARY TO AC

GRASSED-LINED
CHES/WATERWAY NOTES

- 1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 5 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING.
- 3. PERMANENT VEGETATION TO BE SEED OR SODDED ON ALL EXPOSED AREAS IMMEDIATELY AFTER FINAL GRADING; MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL A PERMANENT VEGETATIVE COVER CAN BE ESTABLISHED.
- 4. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND/OR PARKING AREAS.
- 5. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREA SUBJECT TO EROSION (ie. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO TONS PER ACRE.
- 6. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (ie. SLOPES GREATER THAN 3:1).
- 7. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
- 8. THE CONTRACTOR/OWNER SHALL BE RESPONSIBLE FOR MAINTAINING SOIL EROSION AND SEDIMENT CONTROL MEASURES UPON COMPLETION OF THE PROJECT.
- 9. ALL ROADWAY DITCHES SHALL BE GRASS LINED TO PREVENT EROSION. THE TYPE OF VEGETATION PROTECTION USED WILL BE AS FOLLOWS:

CHANNEL SLOPE	LINING	PERMISSIBLE VELOCITY (FT/SEC)
0-5%	REED CANARY GRASS TALL FESCUE KENTUCKY BLUEGRASS	5
0-5%	GRASS-LEGUME MIXTURE	4
5-10%	REED CANARY GRASS TALL FESCUE KENTUCKY BLUEGRASS	4
	GRASS-LEGUME MIXTURE	3

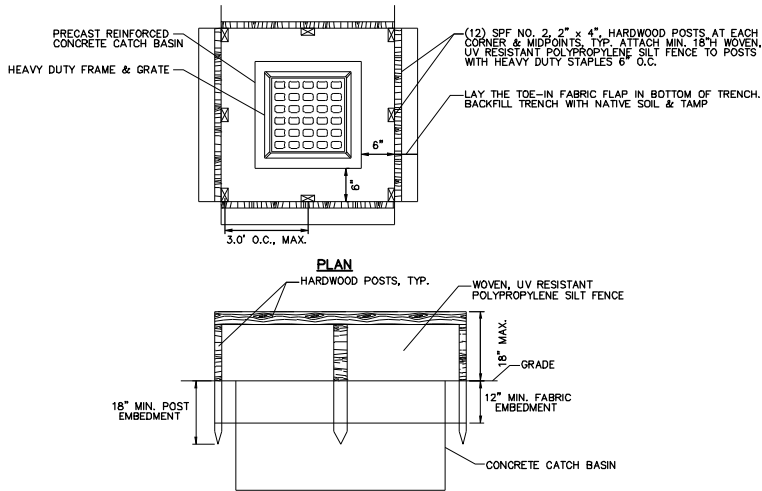
SLOPE STABILIZATION

NO.	KIND OF MULCH TO BE ANCHORED	HOW TO APPLY
1	HAY OR STRAW	AFTER MULCHING, DIVIDE AREAS INTO BLOCKS APPROXIMATELY 1'5" IN SIZE. DRIVE 4-6 PEGS PER BLOCK TO WITHIN 2" TO 3" OF SOIL SURFACE. SECURE MULCH TO SURFACE BY STRETCHING TWINE BETWEEN PEGS IN CRISS-CROSS PATTERN ON EACH BLOCK. SECURE TWINE AROUND PEG WITH 2 OR MORE TIGHT TURNS. DRIVE PEGS FLUSH WITH SOIL. DRIVING STAKES INTO GROUND TIGHTENS THE TWINE.
2	HAY OR STRAW	STABLE THE LIGHT-WEIGHT PAPER, JUTE, WOOD FIBER OR PLASTIC NETTINGS TO SOIL SURFACE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SHOULD BE BIODEGRADABLE. MOST PRODUCTS ARE NOT SUITABLE FOR FOOT TRAFFIC.
3	HAY OR STRAW	APPLY WITH HYDROSEEDER IMMEDIATELY AFTER MULCHING. USE 500 LBS. WOOD FIBER PER ACRE. SOME PRODUCTS CONTAIN AN ADHESIVE MATERIAL ("TACKIFIER"), POSSIBLY ADVANTAGEOUS.
4	HAY OR STRAW	APPLY MULCH AND PULL A MULCH ANCHORING TOOL (BLUNT, STRAIGHT DISCS) OVER MULCH AS NEAR TO THE CONTOUR AS POSSIBLE. MULCH MATERIAL SHOULD BE "TUCKED" INTO SOIL SURFACE ABOUT 3".
5	HAY OR STRAW	MIX AND APPLY POLYMERIC AND GUM TACKIFIERS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. AVOID APPLICATION DURING RAIN. A 24-HOUR CURE PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45° FAHRENHEIT ARE REQUIRED.

FOR SLOPES GREATER THAN OR EQUAL TO 3:1 USE ROLLED EROSION CONTROL PRODUCT MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL

WATERWAY STABILIZATION NOTES

- 1. MANAGEMENT PLAN WITH ADEQUATE STORAGE FOR SNOW AND CONTROL OF MELT CLEARED SNOW TO BE STORED IN A MANNER NOT AFFECTING ONGOING CONSTRUCTION.
- 2. STABILIZE ACCESS POINTS TO PROVIDE FOR SNOW MANAGEMENT AND STOCKPILING. SNOW PILES MUST NOT DESTROY OR DEGRADE INSTALLED EROSION AND SEDIMENT CONTROL.
- 3. BUFFER SHALL BE MAINTAINED FROM ALL PERIMETER CONTROLS SUCH AS SILT FENCE WITH TALL STAKES THAT ARE VISIBLE ABOVE THE SNOW PACK.
- 4. DISTURBED AREAS THAT DRAIN TO A WATERBODY WITHIN 100 FEET WILL HAVE 2 ROWS OF SILT FENCE, INSTALLED ON THE CONTOUR.
- 5. DITCHES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS. ALL DEBRIS, ICE, AND LIMBS FROM PLOWING OPERATIONS, THAT RESTRICT THE FLOW OF RUNOFF AND MELTWATER, SHALL BE REMOVED.
- 6. EROSION CONTROL MEASURES MUST BE INSTALLED AT ALL APPROPRIATE PERIMETER AND SENSITIVE LOCATIONS. OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED BEFORE THE EROSION CONTROL MEASURES ARE INSTALLED.
- 7. EROSION CONTROL MEASURES MUST BE PROTECTED BY THE USE OF ESTABLISHED VEGETATION, ANCHORED STRAW MULCH, STABILIZATION MATTING, OR OTHER DURABLE COVERING. A BARRIER MUST BE INSTALLED FROM THE TOE OF THE STOCKPILE TO PREVENT SOIL MIGRATION AND TO CAPTURE EROSION CONTROL MATERIAL.
- 8. EROSION CONTROL MEASURES SHOULD BE INITIATED BY THE END OF THE NEXT WORK DAY FOLLOWING COMPLETION WITHIN THREE (3) DAYS. ROLLED EROSION CONTROL BLANKETS MUST BE INSTALLED 3 HORIZONTAL TO 1 VERTICAL OR STEEPER.
- 9. IF EROSION CONTROL MEASURES ARE USED FOR TEMPORARY STABILIZATION, IT SHALL BE APPLIED AT DOUBLE THE RATE OF 2 TONS PER ACRE, MAKING THE APPLICATION RATE 4 TONS PER ACRE. OTHER EROSION CONTROL MEASURES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.
- 10. EROSION CONTROL MEASURES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.
- 11. EROSION CONTROL MEASURES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.
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- 19. EROSION CONTROL MEASURES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.
- 20. EROSION CONTROL MEASURES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.



NOTES:

- 1. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY MUST BE OVERLAPPED TO THE NEXT STAKE.
- 2. 1 ACRE MAXIMUM DRAINAGE AREA PER PROTECTION DEVICE.
- 3. LAND AREA SLOPE IMMEDIATELY SURROUNDING THE PROTECTION DEVICE SHOULD NOT EXCEED 1%.
- 4. REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY WITH CARE TO PREVENT UNDERCUTTING OR DAMAGING THE FILTER FABRIC.
- 5. PROTECTION DEVICE SHALL BE KEPT IN PLACE UNTIL ASPHALT CONCRETE PLACEMENT IS COMMENCED.

TEMPORARY FILTER FABRIC
CATCH BASIN PROTECTION DETAIL

SCALE: NO SCALE

CONSTRUCTION SPECIFICATIONS

- 1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- 2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
- 3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- 4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL SATISFACTORY FILLS.
- 5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
- 6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF FINISHED GRADING.
- 9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
- 10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- 12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
- 14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

Planning Board
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Albany County DOH

Project:
**PHILLIPIN KILL
MANOR MAJOR
SUBDIVISION
PHASE - 1**

**TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK**

APPLICANT:
WILLIAM J. CADE

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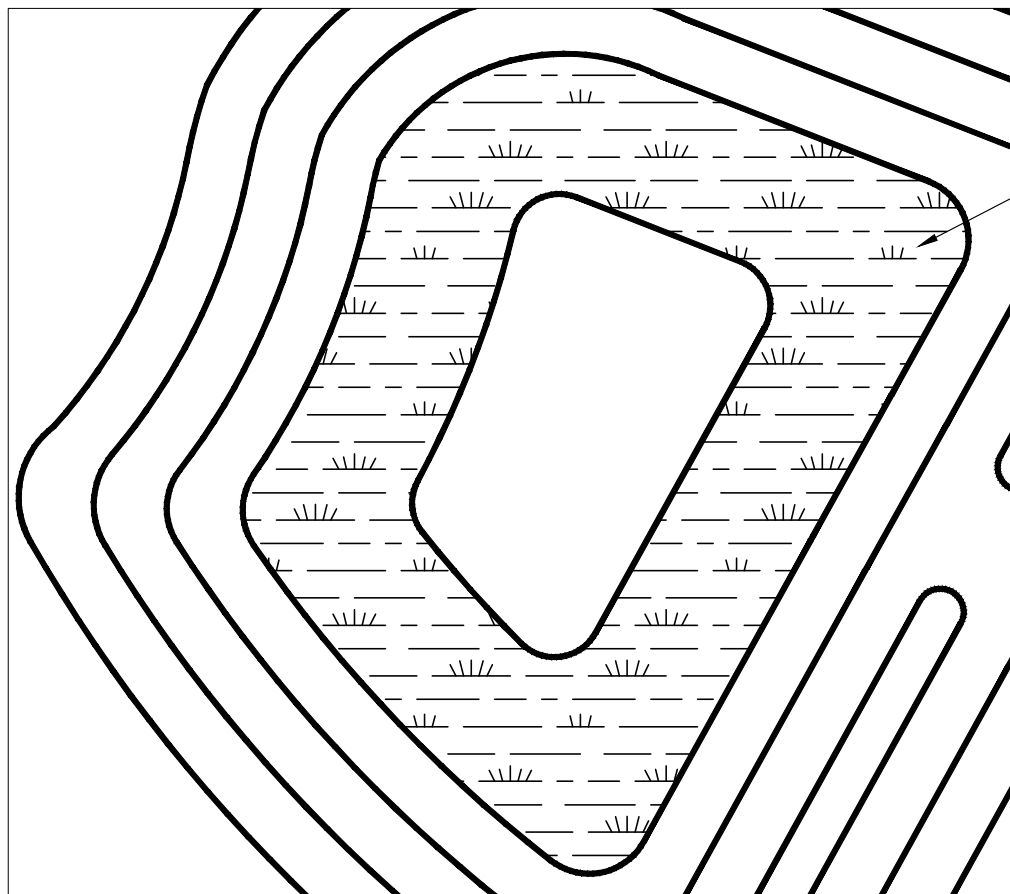
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**EROSION AND
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CONTROL
NOTES AND
DETAILS**

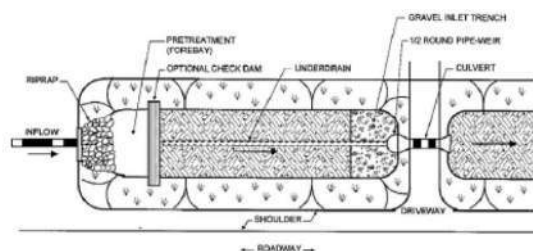
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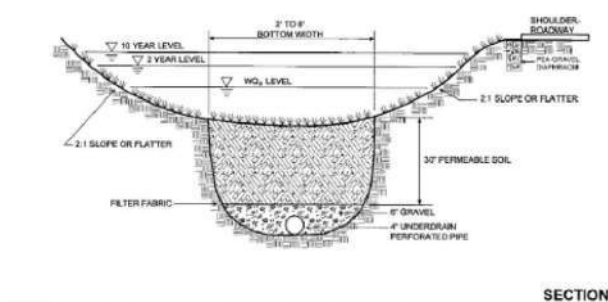


PRESTWICK POND AQUATIC BENCH

SCALE: NO SCALE



PLAN VIEW



SECTION

DRY SWALE DETAIL

SCALE: NO SCALE

PERMANENT POND AQUATIC BENCH PLANTING AREA (ZONE 2) SHALL BE A MIXTURE OF NATIVE HERBACEOUS PLANTINGS, SEE TABLE H.5 FOR ACCEPTABLE SPECIES. CONTRACTOR MAY SUBMIT ALTERNATE PLANT MATERIALS FOR CONSIDERATION OF USE.

- PLANT SPECIES SHALL BE GROUPED TOGETHER IN MASSES TO MIMIC NATURAL OCCURRENCE.
- NATIVE PLANT SPECIES SHOULD BE USED, RATHER THAN FOREIGN SPECIES.
- PLANTING SHOULD BE BASED UPON ZONE OF HYDRIC TOLERANCE.
- SPECIES LAYOUT SHOULD GENERALLY BE RANDOM AND NATURAL - WHILE OVERALL AESTHETICS AND VISUAL CHARACTER SHOULD BE PRIME CONSIDERATION.
- NO NOXIOUS WEEDS SHALL BE INCORPORATED IN PLANTING.
- GARANTEE ALL PLANT MATERIALS FOR ONE YEAR - AS OUTLINED IN EXISTING PLANTS SPECIFICATIONS.

PLANTING GUIDELINES

- PLANTS SHALL BE PLACED IN RANDOM PATTERNS, 18" O.C. MAX. (0.445 PLANTS PER SQUARE FOOT).
- HERBACEOUS PLANT MATERIALS SHALL BE 4" POTS OR PLUGS.
- SEEDING PLANT SPECIES SHALL NOT BE ACCEPTABLE.

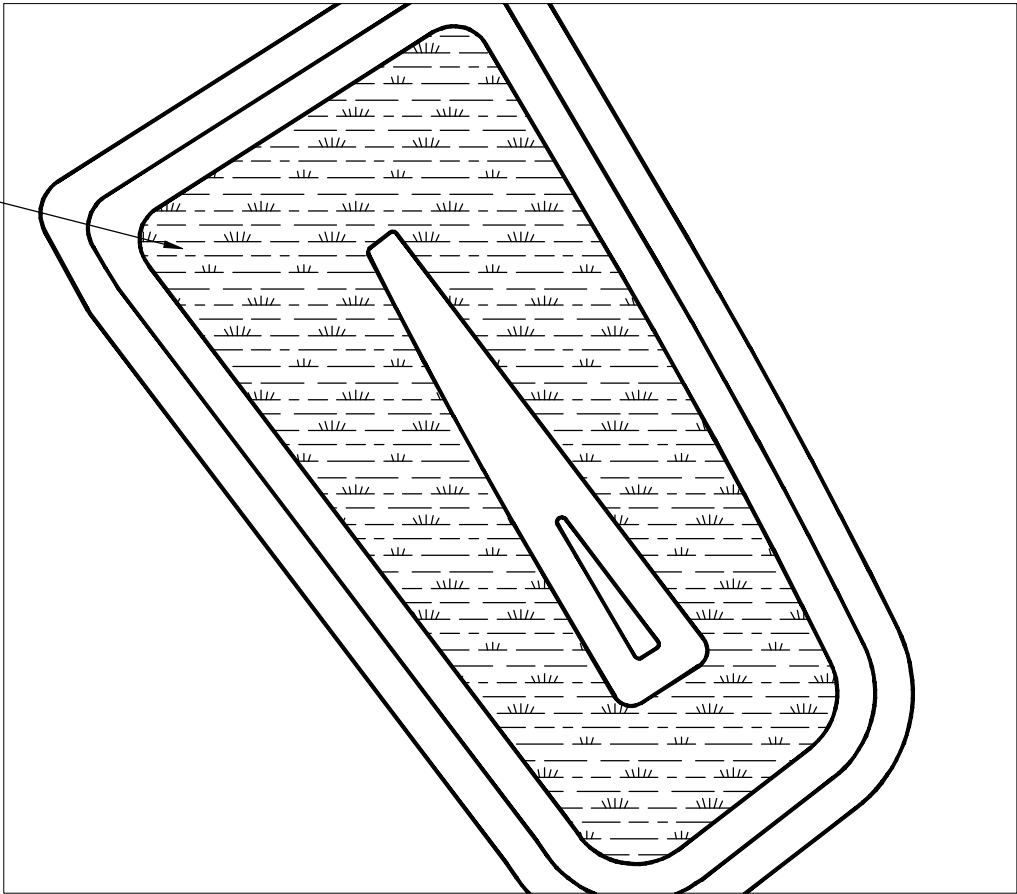
PLANT AVAILABILITY VARIES - TO PROVIDE SOME FLEXIBILITY, CONTRACTOR SHALL SUBMIT LISTING OF PLANT SPECIES, QUANTITIES, AND SIZES FOR REVIEW AND APPROVAL BY ENGINEER, PRIOR TO INSTALLATION.

Table H.5 Native Plant Guide for Stormwater Management Areas (NY)											
KEY	QTY	Herbaceous Plants (Plant Name)	Zone	Form	Available	Installation	Notes	Notes	Notes	Notes	Notes
AB-01		Arrowweed (Plant Name)	1,3	Shrub	yes	up to 1.5'	Arrowweed (Plant Name)	Arrowweed (Plant Name)	Arrowweed (Plant Name)	Arrowweed (Plant Name)	Arrowweed (Plant Name)
AB-02		Cattail (Plant Name)	1,3	Shrub	yes	up to 1.5'	Cattail (Plant Name)	Cattail (Plant Name)	Cattail (Plant Name)	Cattail (Plant Name)	Cattail (Plant Name)
AB-03		Cyperus (Plant Name)	1	Shrub	yes	up to 1.5'	Cyperus (Plant Name)	Cyperus (Plant Name)	Cyperus (Plant Name)	Cyperus (Plant Name)	Cyperus (Plant Name)
AB-04		Hardstem Bulrush (Plant Name)	1	Shrub	yes	up to 1.5'	Hardstem Bulrush (Plant Name)	Hardstem Bulrush (Plant Name)	Hardstem Bulrush (Plant Name)	Hardstem Bulrush (Plant Name)	Hardstem Bulrush (Plant Name)
AB-05		Great Bladder (Plant Name)	1,3	Shrub	yes	up to 1.5'	Great Bladder (Plant Name)	Great Bladder (Plant Name)	Great Bladder (Plant Name)	Great Bladder (Plant Name)	Great Bladder (Plant Name)
AB-06		Green Oat (Plant Name)	1	Shrub	yes	up to 1.5'	Green Oat (Plant Name)	Green Oat (Plant Name)	Green Oat (Plant Name)	Green Oat (Plant Name)	Green Oat (Plant Name)
AB-07		Redtop (Plant Name)	1,3	Shrub	yes	up to 1.5'	Redtop (Plant Name)	Redtop (Plant Name)	Redtop (Plant Name)	Redtop (Plant Name)	Redtop (Plant Name)
AB-08		Sedges (Plant Name)	1,3	Shrub	yes	up to 1.5'	Sedges (Plant Name)	Sedges (Plant Name)	Sedges (Plant Name)	Sedges (Plant Name)	Sedges (Plant Name)
AB-09		Soft-stem Bulrush (Plant Name)	1,3	Shrub	yes	up to 1.5'	Soft-stem Bulrush (Plant Name)	Soft-stem Bulrush (Plant Name)	Soft-stem Bulrush (Plant Name)	Soft-stem Bulrush (Plant Name)	Soft-stem Bulrush (Plant Name)
AB-10		Sparganium (Plant Name)	1,3,4	Shrub	yes	up to 1.5'	Sparganium (Plant Name)	Sparganium (Plant Name)	Sparganium (Plant Name)	Sparganium (Plant Name)	Sparganium (Plant Name)
AB-11		Sparganium (Plant Name)	1	Shrub	yes	up to 1.5'	Sparganium (Plant Name)	Sparganium (Plant Name)	Sparganium (Plant Name)	Sparganium (Plant Name)	Sparganium (Plant Name)
AB-12		Wet Reed (Plant Name)	1,3	Shrub	yes	up to 1.5'	Wet Reed (Plant Name)	Wet Reed (Plant Name)	Wet Reed (Plant Name)	Wet Reed (Plant Name)	Wet Reed (Plant Name)

STORMWATER POND AQUATIC BENCH PLANTING

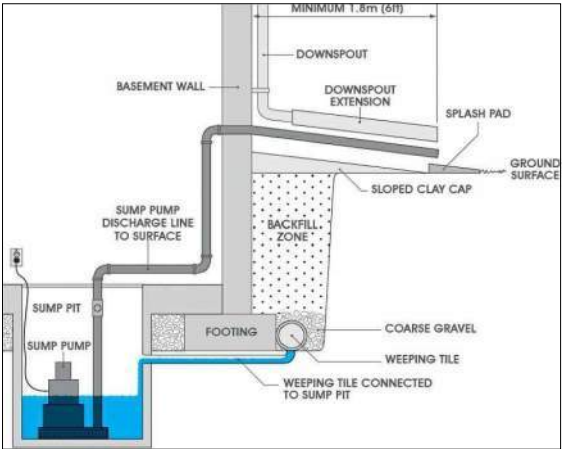
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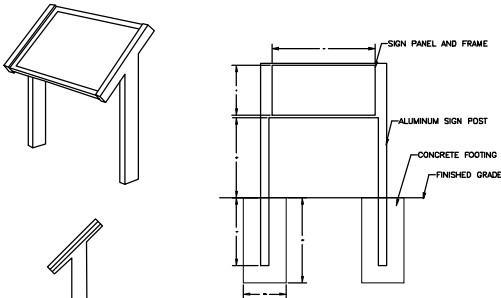
CARRINGTON POND AQUATIC BENCH

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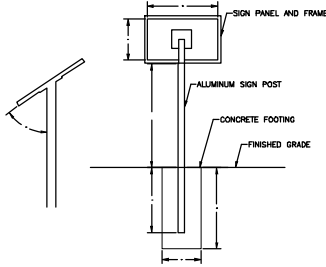
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INFORMATIONAL SIGNAGE TYPE "B"

- NOTES:
1. POSTS TO BE 2" X 4" RECTANGULAR ALUMINUM WITH STAINLESS STEEL HARDWARE.
 2. SIGN FRAME TO ALLOW FOR A 24" BY 48" GRAPHIC PANEL.
 3. POSTS TO BE INSTALLED A MINIMUM OF 24" BELOW GRADE IN CONCRETE FOOTING.
 4. SIGN POST AND FRAME TO BE TEXTURE POWDER COATED "FOREST GREEN" IN COLOR.
 5. SIGN FRAMES TO ALLOW FOR A PANEL THICKNESS OF .125".
 6. SIGN FRAME WIDTH TO BE 3/4" AND PROVIDE A REMOVABLE TOP RAIL FOR PANEL INSTALLATION.
 7. SIGNAGE TO BE AS MANUFACTURED BY VICKER INC., OR APPROVED EQUIVALENT.



INFORMATIONAL SIGNAGE TYPE "A"

- NOTES:
1. POSTS TO BE 2" X 4" RECTANGULAR ALUMINUM WITH STAINLESS STEEL HARDWARE.
 2. SIGN PLATE TO BE WELDED AT 45 DEGREES IN ALL INSTANCES.
 3. POSTS TO BE INSTALLED A MINIMUM OF 24" BELOW GRADE IN CONCRETE FOOTING.
 4. SIGN POST AND FRAME TO BE TEXTURE POWDER COATED "FOREST GREEN" IN COLOR.
 5. SIGN FRAMES TO ALLOW FOR A PANEL THICKNESS OF .125".
 6. SIGN FRAME WIDTH TO BE 3/4" AND PROVIDE A REMOVABLE TOP RAIL FOR PANEL INSTALLATION.
 7. SIGN FRAME TO ALLOW FOR 11" BY 17" GRAPHIC PANEL.
 8. SIGN MOUNTING TO BE AS MANUFACTURED BY VICKER INC., OR APPROVED EQUIVALENT.

STORMWATER PRACTICE SIGN

SCALE: NO SCALE

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SUBDIVISION
PHASE - 1**

**TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK**

APPLICANT:
WILLIAM J. CADE

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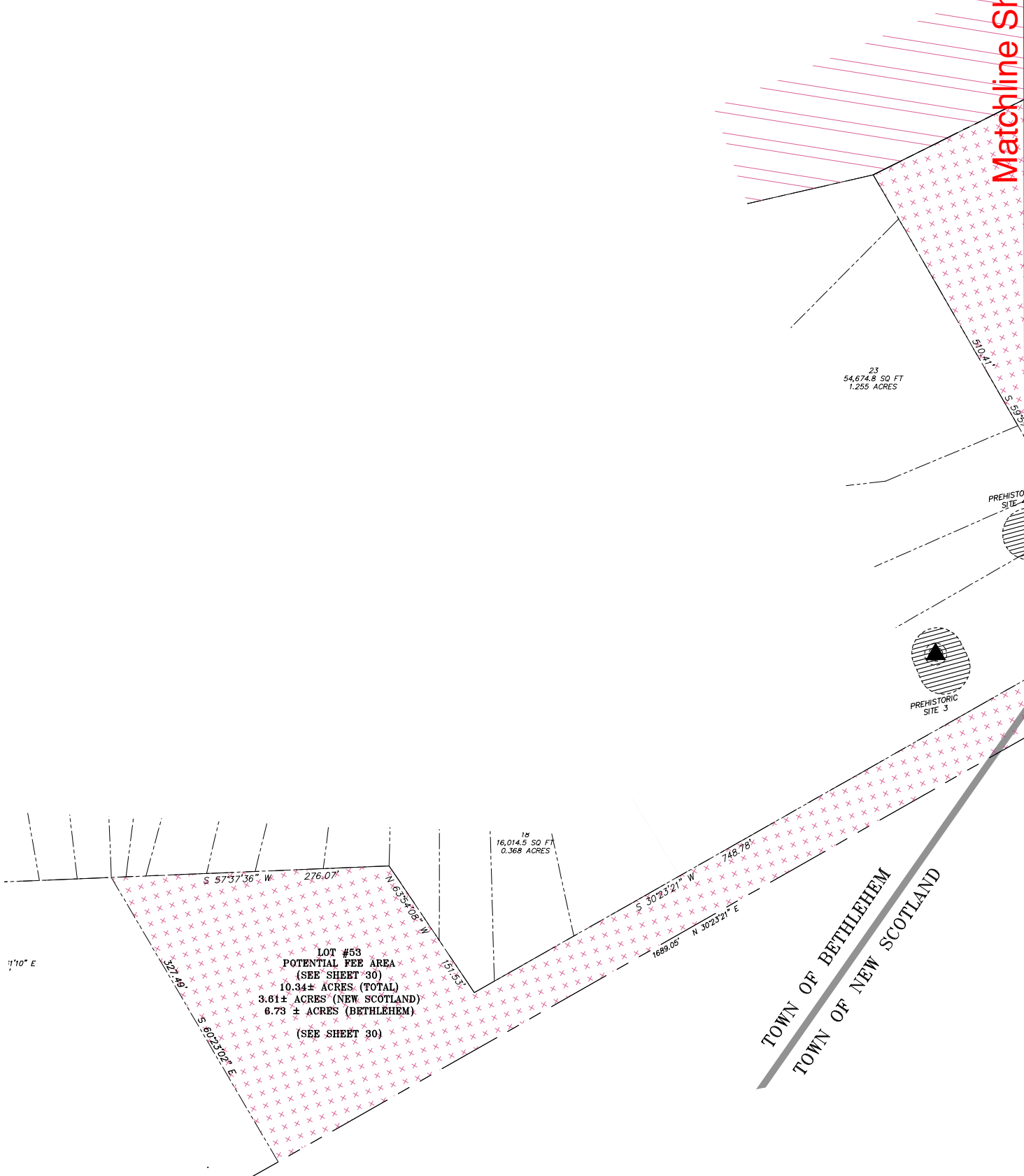
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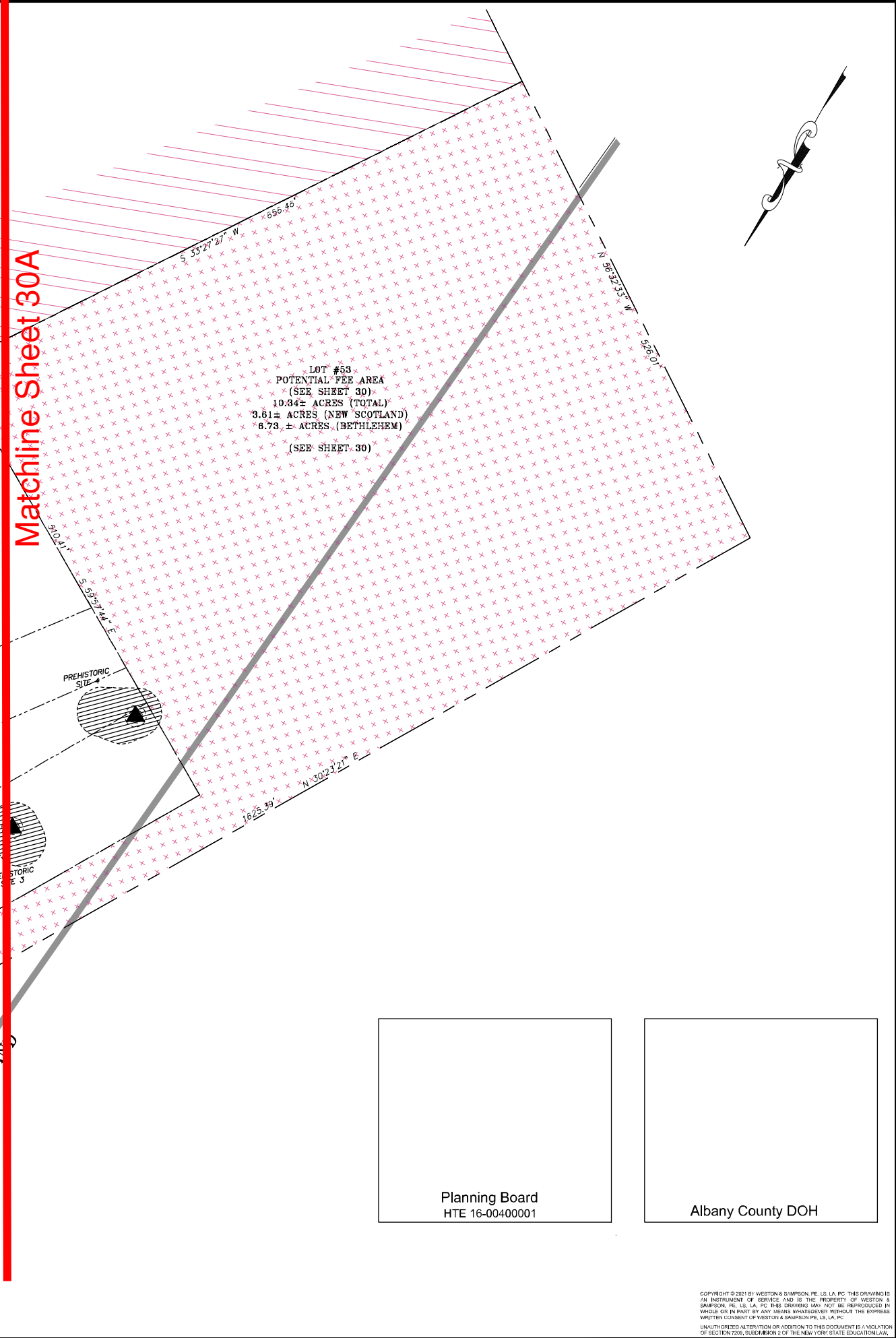
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Matchline Sheet 30A



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NEW YORK**

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**DEC-1
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