



Galli Engineering, P.C.

September 11, 2020

New York State Department of State
Office of Planning and Development, Suite 1010
One Commerce Place, 99 Washington Avenue, Albany, NY 12231-0001

Re: Cover Letter for re-filing of NYCDP Waterfront Revitalization
Program Consistency Assessment Form - Zerega Avenue Realty,
Corp
1000 Zerega Realty, 1000 Zerega Avenue, Bronx, NY 10462
App #: F-2019-0985

To whom it may concern,

This letter is a response to the New York State Department of State that Galli Engineering, P.C. has been retained by Zerega Avenue Realty, Corp to re-file submission of NYCDP Waterfront Revitalization Program Consistency Assessment Form for Zerega Avenue Realty, Corp site located at 1000 Zerega Realty, 1000 Zerega Avenue, Bronx, NY 10462. Due to certain changes in the bulkhead project and COVID-19 we are re-filing and require a new submission number.

1. On our last submittal, the following was the only comment presented by the NYS Department of State:
 - a. The need to go waterward with the bulkhead rather than in-place replacement

Response: The bulkhead location has been revised to balance the cuts and fills per the NYSDEC request. The NYSDEC has required that the land taken for the bulkhead project be given back in the form of marine environment at a 1:1 ratio, resulting in a net zero of land taken. The concrete outside of the company's property will be demolished for sunlit marine environment to flourish. See drawing sheet C-101 for calculations.

The application was previously sent to New York State Department of Environmental Conservation with Application ID: 2-6005-00938/00005.

The most important objective and the goal of the bulkhead is to protect the structural integrity of the building and the facility from the tidal salt water and storm surges.

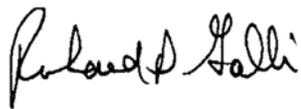
Documents included in the submission:

- Previous NOIA from October 23rd, 2019
- Signed NYC Waterfront Revitalization Program Consistency Assessment Form
- Attachment with consistency assessment statements for all relevant policies
- New York State Department of State Coastal Management Program Federal Consistency Assessment Form
- NYSDEC Joint Application form, one copy of the complete application package
- Drawings (plans, sections, elevations), survey, maps that support the certification of consistency
- Policy 6.2 Flood Elevation worksheet

This submission is also sent to New York City Department of City Planning for review.

I hope that this letter is sufficient for your needs. If you have any questions, please feel free to call me.

Very truly yours,
GALLI ENGINEERING, P.C.



Richard D. Galli, P.E.
Principal



JOINT APPLICATION FORM

For Permits for activities affecting streams, waterways, waterbodies, wetlands, coastal areas, sources of water, and endangered and threatened species.

You must separately apply for and obtain Permits from each involved agency before starting work. Please read all instructions.

1. Applications To:
>NYS Department of Environmental Conservation
Check all permits that apply: Stream Disturbance, Dams and Impoundment Structures, Tidal Wetlands, Water Withdrawal, etc.
>US Army Corps of Engineers
Check all permits that apply: Section 404 Clean Water Act, Section 10 Rivers and Harbors Act
>NYS Office of General Services
Check all permits that apply: State Owned Lands Under Water, Utility Easement, Docks, Moorings or Platforms
>NYS Department of State
Check if this applies: Coastal Consistency Concurrence

2. Name of Applicant
Taxpayer ID (if applicant is NOT an individual)
Mailing Address
Post Office / City State Zip
Telephone Email
Applicant Must be (check all that apply): Owner Operator Lessee

3. Name of Property Owner (if different than Applicant)
Mailing Address
Post Office / City State Zip
Telephone Email

For Agency Use Only Agency Application Number:

4. Name of Contact / Agent

Mailing Address _____ Post Office / City _____ State _____ Zip _____

Telephone _____ Email _____

5. Project / Facility Name _____ Property Tax Map Section / Block / Lot Number: _____

Project Street Address, if applicable _____ Post Office / City _____ State _____ Zip _____

_____ NY _____

Provide directions and distances to roads, intersections, bridges and bodies of water

Town Village City County _____ Stream/Waterbody Name _____

Project Location Coordinates: Enter Latitude and Longitude in degrees, minutes, seconds:

Latitude: _____° _____' _____" Longitude: _____° _____' _____"

6. Project Description: Provide the following information about your project. Continue each response and provide any additional information on other pages. **Attach plans on separate pages.**

a. Purpose of the proposed project:

b. Description of current site conditions:

c. Proposed site changes:

d. Type of structures and fill materials to be installed, and quantity of materials to be used (e.g., square feet of coverage, cubic yards of fill material, structures below ordinary/mean high water, etc.):

e. Area of excavation or dredging, volume of material to be removed, location of dredged material placement:

f. Is tree cutting or clearing proposed? Yes If Yes, explain below. No

Timing of the proposed cutting or clearing (month/year): _____

Number of trees to be cut: _____ Acreage of trees to be cleared: _____

g. Work methods and type of equipment to be used:

h. Describe the planned sequence of activities:

i. Pollution control methods and other actions proposed to mitigate environmental impacts:

j. Erosion and silt control methods that will be used to prevent water quality impacts:

k. Alternatives considered to avoid regulated areas. If no feasible alternatives exist, explain how the project will minimize impacts:

l. Proposed use: Private Public Commercial

m. Proposed Start Date: Estimated Completion Date:

n. Has work begun on project? Yes If Yes, explain below. No

o. Will project occupy Federal, State, or Municipal Land? Yes If Yes, explain below. No

p. List any previous DEC, USACE, OGS or DOS Permit / Application numbers for activities at this location:

q. Will this project require additional Federal, State, or Local authorizations, including zoning changes?

Yes If Yes, list below. No

7. Signatures.

Applicant and Owner (If different) must sign the application. If the applicant is the landowner, the **landowner attestation form** can be used as an electronic signature as an alternative to the signature below, if necessary. Append additional pages of this Signature section if there are multiple Applicants, Owners or Contact/Agents.

I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief.

Permission to Inspect - I hereby consent to Agency inspection of the project site and adjacent property areas. Agency staff may enter the property without notice between 7:00 am and 7:00 pm, Monday - Friday. Inspection may occur without the owner, applicant or agent present. If the property is posted with "keep out" signs or fenced with an unlocked gate, Agency staff may still enter the property. Agency staff may take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the site. I understand that failure to give this consent may result in denial of the permit(s) sought by this application.

False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the NYS Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

Signature of Applicant

Salvatore D'Avola

Date

Applicant Must be (check all that apply): Owner Operator Lessee

Printed Name

Title

Signature of Owner (if different than Applicant)

Date

Printed Name

Title

Signature of Contact / Agent

Richard Galli

Date

Printed Name

Title

For Agency Use Only

DETERMINATION OF NO PERMIT REQUIRED

Agency Application Number

(Agency Name) has determined that No Permit is required from this Agency for the project described in this application.

Agency Representative:

Printed Name

Title

Signature

Date

STATE OF NEW YORK
DEPARTMENT OF STATE

ONE COMMERCE PLAZA
99 WASHINGTON AVENUE
ALBANY, NY 12231-0001
WWW.DOS.NY.GOV

ANDREW M. CUOMO
GOVERNOR

ROSSANA ROSADO
SECRETARY OF STATE

October 23, 2019

Richard D. Galli, P.E.
Galli Engineering, P.C.
35 Pinelawn Road
Melville, NY 11747

Re: F-2019-0985
U.S. Army Corps of Engineers/NY District
Application –Zerega Avenue Realty Group
NYS DEC Reg 2: 2-6005-00938/00005
Installation of 203 feet of steel bulkhead along the
Westchester Cree shoreline. The sheeting will be
installed 4 feet away from the existing building.
The sheeting will be driven to a depth of -41 feet
and the top edge of the bulkhead will be cut at
10.85' NAVD88. The bulkhead will utilize unused
existing timber piles and a proposed 63 foot long 5
foot by 2 foot concrete block as deadmen tied to the
sheeting.
1000 Zerega Avenue, Bronx, Bronx County,
Westchester Creek
Request for Necessary Information

Dear Mr. Galli:

The Department of State received your Federal Consistency Assessment Form and consistency certification and supporting information regarding the above matter on September 25, 2019. However, pursuant to 15 CFR § 930.58, the following necessary data and information is required to enable the Department of State to adequately assess and undertake its review of the coastal zone effects of this proposed activity:

1. A written analysis of alternatives to the proposed activity considered by the applicant on the following:
 - a. the need to go waterward with the bulkhead rather than in-place replacement

Please provide the necessary information requested above as soon as possible. If this necessary information and data is not provided within thirty days of the date of this letter, the Department of State may close the file regarding this proposed activity. If the Department closes the file and does not concur with the consistency certification provided for this proposed activity, the consistency provisions of the federal Coastal Zone Management Act prohibit federal agency authorization of the activity.



(over)

Please contact me at (518) 473-2470 or Rebecca.ferres@dos.ny.gov if you have any questions regarding this matter. When communicating with us regarding this matter, please refer to Department of State file #F-2019-0985.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. D.', followed by a long, horizontal flourish that extends to the right.

Rebecca D. Ferres
Coastal Resources Specialist I
Office of Planning, Development and
Community Infrastructure

*ecc: COE/New York District – Stephan Ryba
DEC Region 2: Denise L. Grattan
Zerega Avenue Reality Corp., Applicant*

NEW YORK STATE DEPARTMENT OF STATE
COASTAL MANAGEMENT PROGRAM

Federal Consistency Assessment Form

An applicant, seeking a permit, license, waiver, certification or similar type of approval from a federal agency which is subject to the New York State Coastal Management Program (CMP), shall complete this assessment form for any proposed activity that will occur within and/or directly affect the State's Coastal Area. This form is intended to assist an applicant in certifying that the proposed activity is consistent with New York State's CMP as required by U.S. Department of Commerce regulations (15 CFR 930.57). It should be completed at the time when the federal application is prepared. The Department of State will use the completed form and accompanying information in its review of the applicant's certification of consistency.

A. APPLICANT (please print)

1. Name: Zerega Avenue Reality, Corp
2. Address: 1000 Zerega Avenue, Bronx, NY 10462
3. Telephone: Area Code (347) 810-9984

B. PROPOSED ACTIVITY

1. Brief description of activity:

The site is a NYSDEC and DSNY registered Fill Material Transfer Station. The project plans to install 242'-7" of steel bulkhead along the Westchester Creek shoreline. The sheeting will be installed 4 feet away from the existing building. The purpose of the project is to protect the structural integrity of the existing building and to protect soil fines from entering Westchester Creek during storm tides. The sheeting will be driven to a depth of 41 feet and the top edge of the bulkhead will be cut at 10.85' NAVD88. The bulkhead will utilize unused existing timber piles and a proposed 63'-1" long 5' x 2' concrete block as deadmen tied to the sheeting

2. Purpose of activity:

The purpose of the project is to install a bulkhead designed to protect the structural integrity of the existing building and to protect soil fines from entering Westchester Creek during storm tides.

3. Location of activity:

<u>New York</u>	<u>Bronx</u>	<u>1000 Zerega Avenue</u>
County	City, Town, or Village	Street or Site Description

4. Type of federal permit/license required: USACE Section 10, River and Harbors

5. Federal application number, if known: N/A

6. If a state permit/license was issued or is required for the proposed activity, identify the state agency and provide the application or permit number, if known:

NYSDEC 2-6005-00938/00005

C. COASTAL ASSESSMENT Check either "YES" or "NO" for each of these questions. The numbers following each question refer to the policies described in the CMP document (see footnote on page 2) which may be affected by the proposed activity.

1. Will the proposed activity result in any of the following: YES / NO

- | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| a. Large physical change to a site within the coastal area which will require the preparation of an environmental impact statement? (11, 22, 25, 32, 37, 38, 41, 43) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b. Physical alteration of more than two acres of land along the shoreline, land under water or coastal waters? (2, 11, 12, 20, 28, 35, 44) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c. Revitalization/redevelopment of a deteriorated or underutilized waterfront site? (1) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. Reduction of existing or potential public access to or along coastal waters? (19, 20) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. Adverse effect upon the commercial or recreational use of coastal fish resources? (9,10) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f. Siting of a facility essential to the exploration, development and production of energy resources in coastal waters or on the Outer Continental Shelf? (29) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g. Siting of a facility essential to the generation or transmission of energy? (27) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h. Mining, excavation, or dredging activities, or the placement of dredged or fill material in coastal waters? (15, 35) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| i. Discharge of toxics, hazardous substances or other pollutants into coastal waters? (8, 15, 35) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| j. Draining of stormwater runoff or sewer overflows into coastal waters? (33) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| k. Transport, storage, treatment, or disposal of solid wastes or hazardous materials? (36, 39) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| l. Adverse effect upon land or water uses within the State's small harbors? (4) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

2. Will the proposed activity affect or be located in, on, or adjacent to any of the following: YES / NO

- | | | |
|----------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| a. State designated freshwater or tidal wetland? (44) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Federally designated flood and/or state designated erosion hazard area? (11, 12, 17,) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. State designated significant fish and/or wildlife habitat? (7) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. State designated significant scenic resource or area? (24) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. State designated important agricultural lands? (26) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f. Beach, dune or barrier island? (12) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g. Major ports of Albany, Buffalo, Ogdensburg, Oswego or New York? (3) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h. State, county, or local park? (19, 20) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| i. Historic resource listed on the National or State Register of Historic Places? (23) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

3. Will the proposed activity require any of the following: YES / NO

- | | | |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| a. Waterfront site? (2, 21, 22) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Provision of new public services or infrastructure in undeveloped or sparsely populated sections of the coastal area? (5) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c. Construction or reconstruction of a flood or erosion control structure? (13, 14, 16) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. State water quality permit or certification? (30, 38, 40) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. State air quality permit or certification? (41, 43) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

4. Will the proposed activity occur within and/or affect an area covered by a State approved local waterfront revitalization program? (see policies in local program document)

D. ADDITIONAL STEPS

1. If all of the questions in Section C are answered "NO", then the applicant or agency shall complete Section E and submit the documentation required by Section F.
2. If any of the questions in Section C are answered "YES", then the applicant or agent is advised to consult the CMP, or where appropriate, the local waterfront revitalization program document*. The proposed activity must be analyzed in more detail with respect to the applicable state or local coastal policies. On a separate page(s), the applicant or agent shall: (a) identify, by their policy numbers, which coastal policies are affected by the activity, (b) briefly assess the effects of the activity upon the policy; and, (c) state how the activity is consistent with each policy. Following the completion of this written assessment, the applicant or agency shall complete Section E and submit the documentation required by Section F.

E. CERTIFICATION

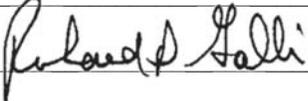
The applicant or agent must certify that the proposed activity is consistent with the State's CMP or the approved local waterfront revitalization program, as appropriate. If this certification cannot be made, the proposed activity shall not be undertaken. If this certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program, or with the applicable approved local waterfront revitalization program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Name: Galli Engineering, P.C.

Address: 35 Pinelawn Road Suite 209E, Melville, NY 11747

Telephone: Area Code (631) 271-9292

Applicant/Agent's Signature:  Date: _____

F. SUBMISSION REQUIREMENTS

1. The applicant or agent shall submit the following documents to the **New York State Department of State, Office of Coastal, Local Government and Community Sustainability, Attn: Consistency Review Unit, 1 Commerce Plaza, 99 Washington Avenue - Suite 1010, Albany, New York 12231.**

- a. Copy of original signed form.
- b. Copy of the completed federal agency application.
- c. Other available information which would support the certification of consistency.

2. The applicant or agent shall also submit a copy of this completed form along with his/her application to the federal agency.

3. If there are any questions regarding the submission of this form, contact the Department of State at (518) 474-6000.

*These state and local documents are available for inspection at the offices of many federal agencies, Department of environmental Conservation and Department of State regional offices, and the appropriate regional and county planning agencies. Local program documents are also available for inspection at the offices of the appropriate local government.

WRP POLICY ASSESSMENT

Action promotes policy # 2

The bulkhead project location is along the site shoreline to minimize erosion to Westchester Creek. It can increase safety of water-dependent businesses and industrial uses on the coastal area.

Action promotes policy # 2.5

The purpose of the bulkhead project is shoreline erosion control. The design has incorporated consideration of climate change and sea level rise.

Action Hinder policy # 4.5

During construction of the project, filling is required for installing and stabilizing the bulkhead. Natural virgin gravel are selected as filling material for minimizing environmental impact. Total filling volume is approximate 36 cubic yards.

(N/A) policy # 4.7

According to the New York Nature Explorer County Results Report, there are no endangered species around the site.

Action promotes policy # 6

The purpose of the project is to install a bulkhead designed to protect the structural integrity of the existing building and to protect soil fines from entering Westchester Creek during storm tides. It can also increase resilience to future conditions created by climate change.

Action promotes policy # 6.1

The bulkhead project can maximize the flooding and erosion protective capacities of natural shoreline feature. The surrounding area is to be protected. Offset by creating new sunlit marine environment behind the AMHW (apparent mean high water) line.

Action promotes policy # 6.2

During the design progress, climate change and sea level rising (New York City Panel on Climate Change 2015 report) was considered.

NEW YORK CITY WATERFRONT REVITALIZATION PROGRAM Consistency Assessment Form

Proposed actions that are subject to CEQR, ULURP or other local, state or federal discretionary review procedures, and that are within New York City's Coastal Zone, must be reviewed and assessed for their consistency with the [New York City Waterfront Revitalization Program](#) (WRP) which has been approved as part of the State's Coastal Management Program.

This form is intended to assist an applicant in certifying that the proposed activity is consistent with the WRP. It should be completed when the local, state, or federal application is prepared. The completed form and accompanying information will be used by the New York State Department of State, the New York City Department of City Planning, or other city or state agencies in their review of the applicant's certification of consistency.

A. APPLICANT INFORMATION

Name of Applicant: _____

Name of Applicant Representative: _____

Address: _____

Telephone: _____ Email: _____

Project site owner (if different than above): _____

B. PROPOSED ACTIVITY

If more space is needed, include as an attachment.

1. Brief description of activity

2. Purpose of activity

C. PROJECT LOCATION

Borough: _____ Tax Block/Lot(s): _____

Street Address: _____

Name of water body (if located on the waterfront): _____

D. REQUIRED ACTIONS OR APPROVALS

Check all that apply.

City Actions/Approvals/Funding

City Planning Commission

Yes No

- | | | |
|-----------------------------------------------------------|------------------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> City Map Amendment | <input type="checkbox"/> Zoning Certification | <input type="checkbox"/> Concession |
| <input type="checkbox"/> Zoning Map Amendment | <input type="checkbox"/> Zoning Authorizations | <input type="checkbox"/> UDAAP |
| <input type="checkbox"/> Zoning Text Amendment | <input type="checkbox"/> Acquisition – Real Property | <input type="checkbox"/> Revocable Consent |
| <input type="checkbox"/> Site Selection – Public Facility | <input type="checkbox"/> Disposition – Real Property | <input type="checkbox"/> Franchise |
| <input type="checkbox"/> Housing Plan & Project | <input type="checkbox"/> Other, explain: _____ | |
| <input type="checkbox"/> Special Permit | | |
- (if appropriate, specify type: Modification Renewal other) Expiration Date: _____

Board of Standards and Appeals

Yes No

- Variance (use)
- Variance (bulk)
- Special Permit
- (if appropriate, specify type: Modification Renewal other) Expiration Date: _____

Other City Approvals

- | | |
|------------------------------------------------------------|-------------------------------------------------------------------|
| <input type="checkbox"/> Legislation | <input type="checkbox"/> Funding for Construction, specify: _____ |
| <input type="checkbox"/> Rulemaking | <input type="checkbox"/> Policy or Plan, specify: _____ |
| <input type="checkbox"/> Construction of Public Facilities | <input type="checkbox"/> Funding of Program, specify: _____ |
| <input type="checkbox"/> 384 (b) (4) Approval | <input type="checkbox"/> Permits, specify: _____ |
| <input type="checkbox"/> Other, explain: _____ | |

State Actions/Approvals/Funding

- State permit or license, specify Agency: _____ Permit type and number: _____
- Funding for Construction, specify: _____
- Funding of a Program, specify: _____
- Other, explain: _____

Federal Actions/Approvals/Funding

- Federal permit or license, specify Agency: _____ Permit type and number: _____
- Funding for Construction, specify: _____
- Funding of a Program, specify: _____
- Other, explain: _____

Is this being reviewed in conjunction with a [Joint Application for Permits?](#) Yes No

E. LOCATION QUESTIONS

1. Does the project require a waterfront site? Yes No
2. Would the action result in a physical alteration to a waterfront site, including land along the shoreline, land under water or coastal waters? Yes No
3. Is the project located on publicly owned land or receiving public assistance? Yes No
4. Is the project located within a FEMA 1% annual chance floodplain? (6.2) Yes No
5. Is the project located within a FEMA 0.2% annual chance floodplain? (6.2) Yes No
6. Is the project located adjacent to or within a special area designation? See [Maps – Part III](#) of the NYC WRP. If so, check appropriate boxes below and evaluate policies noted in parentheses as part of WRP Policy Assessment (Section F).
 - Significant Maritime and Industrial Area (SMIA) (2.1)
 - Special Natural Waterfront Area (SNWA) (4.1)
 - Priority Maritime Activity Zone (PMAZ) (3.5)
 - Recognized Ecological Complex (REC) (4.4)
 - West Shore Ecologically Sensitive Maritime and Industrial Area (ESMIA) (2.2, 4.2)

F. WRP POLICY ASSESSMENT

Review the project or action for consistency with the WRP policies. For each policy, check Promote, Hinder or Not Applicable (N/A). For more information about consistency review process and determination, see **Part I** of the [NYC Waterfront Revitalization Program](#). When assessing each policy, review the full policy language, including all sub-policies, contained within **Part II** of the WRP. The relevance of each applicable policy may vary depending upon the project type and where it is located (i.e. if it is located within one of the special area designations).

For those policies checked Promote or Hinder, provide a written statement on a separate page that assesses the effects of the proposed activity on the relevant policies or standards. If the project or action promotes a policy, explain how the action would be consistent with the goals of the policy. If it hinders a policy, consideration should be given toward any practical means of altering or modifying the project to eliminate the hindrance. Policies that would be advanced by the project should be balanced against those that would be hindered by the project. If reasonable modifications to eliminate the hindrance are not possible, consideration should be given as to whether the hindrance is of such a degree as to be substantial, and if so, those adverse effects should be mitigated to the extent practicable.

		Promote	Hinder	N/A
I	Support and facilitate commercial and residential redevelopment in areas well-suited to such development.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.1	Encourage commercial and residential redevelopment in appropriate Coastal Zone areas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2	Encourage non-industrial development with uses and design features that enliven the waterfront and attract the public.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.3	Encourage redevelopment in the Coastal Zone where public facilities and infrastructure are adequate or will be developed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4	In areas adjacent to SMIA's, ensure new residential development maximizes compatibility with existing adjacent maritime and industrial uses.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.5	Integrate consideration of climate change and sea level rise into the planning and design of waterfront residential and commercial development, pursuant to WRP Policy 6.2.	<input type="checkbox"/>	<input type="checkbox"/>	

		Promote	Hinder	N/A
2	Support water-dependent and industrial uses in New York City coastal areas that are well-suited to their continued operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.1	Promote water-dependent and industrial uses in Significant Maritime and Industrial Areas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.2	Encourage a compatible relationship between working waterfront uses, upland development and natural resources within the Ecologically Sensitive Maritime and Industrial Area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.3	Encourage working waterfront uses at appropriate sites outside the Significant Maritime and Industrial Areas or Ecologically Sensitive Maritime Industrial Area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.4	Provide infrastructure improvements necessary to support working waterfront uses.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.5	Incorporate consideration of climate change and sea level rise into the planning and design of waterfront industrial development and infrastructure, pursuant to WRP Policy 6.2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Promote use of New York City's waterways for commercial and recreational boating and water-dependent transportation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.	Support and encourage in-water recreational activities in suitable locations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.2	Support and encourage recreational, educational and commercial boating in New York City's maritime centers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.3	Minimize conflicts between recreational boating and commercial ship operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.4	Minimize impact of commercial and recreational boating activities on the aquatic environment and surrounding land and water uses.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.5	In Priority Marine Activity Zones, support the ongoing maintenance of maritime infrastructure for water-dependent uses.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Protect and restore the quality and function of ecological systems within the New York City coastal area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.1	Protect and restore the ecological quality and component habitats and resources within the Special Natural Waterfront Areas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.2	Protect and restore the ecological quality and component habitats and resources within the Ecologically Sensitive Maritime and Industrial Area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3	Protect designated Significant Coastal Fish and Wildlife Habitats.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.4	Identify, remediate and restore ecological functions within Recognized Ecological Complexes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.5	Protect and restore tidal and freshwater wetlands.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.6	In addition to wetlands, seek opportunities to create a mosaic of habitats with high ecological value and function that provide environmental and societal benefits. Restoration should strive to incorporate multiple habitat characteristics to achieve the greatest ecological benefit at a single location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.7	Protect vulnerable plant, fish and wildlife species, and rare ecological communities. Design and develop land and water uses to maximize their integration or compatibility with the identified ecological community.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.8	Maintain and protect living aquatic resources.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Promote	Hinder	N/A
5	Protect and improve water quality in the New York City coastal area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.1	Manage direct or indirect discharges to waterbodies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.2	Protect the quality of New York City's waters by managing activities that generate nonpoint source pollution.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.3	Protect water quality when excavating or placing fill in navigable waters and in or near marshes, estuaries, tidal marshes, and wetlands.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.4	Protect the quality and quantity of groundwater, streams, and the sources of water for wetlands.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.5	Protect and improve water quality through cost-effective grey-infrastructure and in-water ecological strategies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Minimize loss of life, structures, infrastructure, and natural resources caused by flooding and erosion, and increase resilience to future conditions created by climate change.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.1	Minimize losses from flooding and erosion by employing non-structural and structural management measures appropriate to the site, the use of the property to be protected, and the surrounding area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.2	Integrate consideration of the latest New York City projections of climate change and sea level rise (as published in <i>New York City Panel on Climate Change 2015 Report, Chapter 2: Sea Level Rise and Coastal Storms</i>) into the planning and design of projects in the city's Coastal Zone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.3	Direct public funding for flood prevention or erosion control measures to those locations where the investment will yield significant public benefit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.4	Protect and preserve non-renewable sources of sand for beach nourishment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Minimize environmental degradation and negative impacts on public health from solid waste, toxic pollutants, hazardous materials, and industrial materials that may pose risks to the environment and public health and safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.1	Manage solid waste material, hazardous wastes, toxic pollutants, substances hazardous to the environment, and the unenclosed storage of industrial materials to protect public health, control pollution and prevent degradation of coastal ecosystems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.2	Prevent and remediate discharge of petroleum products.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.3	Transport solid waste and hazardous materials and site solid and hazardous waste facilities in a manner that minimizes potential degradation of coastal resources.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Provide public access to, from, and along New York City's coastal waters.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.1	Preserve, protect, maintain, and enhance physical, visual and recreational access to the waterfront.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.2	Incorporate public access into new public and private development where compatible with proposed land use and coastal location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3	Provide visual access to the waterfront where physically practical.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.4	Preserve and develop waterfront open space and recreation on publicly owned land at suitable locations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Promote	Hinder	N/A
8.5	Preserve the public interest in and use of lands and waters held in public trust by the State and City.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.6	Design waterfront public spaces to encourage the waterfront's identity and encourage stewardship.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Protect scenic resources that contribute to the visual quality of the New York City coastal area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.1	Protect and improve visual quality associated with New York City's urban context and the historic and working waterfront.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.2	Protect and enhance scenic values associated with natural resources.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Protect, preserve, and enhance resources significant to the historical, archaeological, architectural, and cultural legacy of the New York City coastal area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.1	Retain and preserve historic resources, and enhance resources significant to the coastal culture of New York City.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.2	Protect and preserve archaeological resources and artifacts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

G. CERTIFICATION

The applicant or agent must certify that the proposed activity is consistent with New York City's approved Local Waterfront Revitalization Program, pursuant to New York State's Coastal Management Program. If this certification cannot be made, the proposed activity shall not be undertaken. If this certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program as expressed in New York City's approved Local Waterfront Revitalization Program, pursuant to New York State's Coastal Management Program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Name: _____

Address: _____

Telephone: _____ Email: _____

Applicant/Agent's Signature: *Richard Galli*

Date: _____

Submission Requirements

For all actions requiring City Planning Commission approval, materials should be submitted to the Department of City Planning.

For local actions not requiring City Planning Commission review, the applicant or agent shall submit materials to the Lead Agency responsible for environmental review. A copy should also be sent to the Department of City Planning.

For State actions or funding, the Lead Agency responsible for environmental review should transmit its WRP consistency assessment to the Department of City Planning.

For Federal direct actions, funding, or permits applications, including Joint Applicants for Permits, the applicant or agent shall also submit a copy of this completed form along with his/her application to the [NYS Department of State Office of Planning and Development](#) and other relevant state and federal agencies. A copy of the application should be provided to the NYC Department of City Planning.

The Department of City Planning is also available for consultation and advisement regarding WRP consistency procedural matters.

New York City Department of City Planning

Waterfront and Open Space Division
120 Broadway, 31st Floor
New York, New York 10271
212-720-3696
wrp@planning.nyc.gov
www.nyc.gov/wrp

New York State Department of State

Office of Planning and Development
Suite 1010
One Commerce Place, 99 Washington Avenue
Albany, New York 12231-0001
518-474-6000
www.dos.ny.gov/opd/programs/consistency

Applicant Checklist

- Copy of original signed NYC Consistency Assessment Form
- Attachment with consistency assessment statements for all relevant policies
- For Joint Applications for Permits, one (1) copy of the complete application package
- Environmental Review documents
- Drawings (plans, sections, elevations), surveys, photographs, maps, or other information or materials which would support the certification of consistency and are not included in other documents submitted. All drawings should be clearly labeled and at a scale that is legible.
- Policy 6.2 Flood Elevation worksheet, if applicable. For guidance on applicability, refer to the WRP Policy 6.2 Guidance document available at www.nyc.gov/wrp

ZEREGA AVENUE REALTY, CORP

1000 ZEREGA AVE, BRONX, NY.

DRAWING LIST

- T-000.00 COVER SHEET
- T-001.00 NOTES
- C-100.00 EXISTING SITE PLAN
- C-101.00 PROPOSED BULKHEAD PLAN
- C-102.00 HYDROGRAPHIC SURVEY
- C-103.00 EQUIPMENT STAGING LOCATION PLAN
- C-200.00 SHEET ELEVATION
- C-300.00 BULKHEAD SECTIONS
- C-301.00 BULKHEAD SECTIONS AND DETAILS
- C-500.00 VIBRATORY HEAD SPECIFICATION & SITE DETAILS
- B-100.00 SOIL BORING PLAN
- B-500.00 BORING LOGS
- B-501.00 BORING LOGS

SCOPE OF WORK

INSTALLING DRIVING SHEET BULKHEAD

SPECIAL INSPECTION

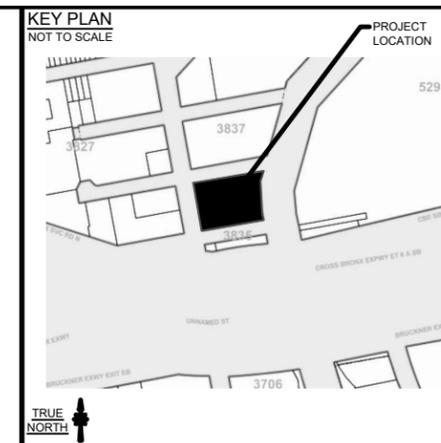
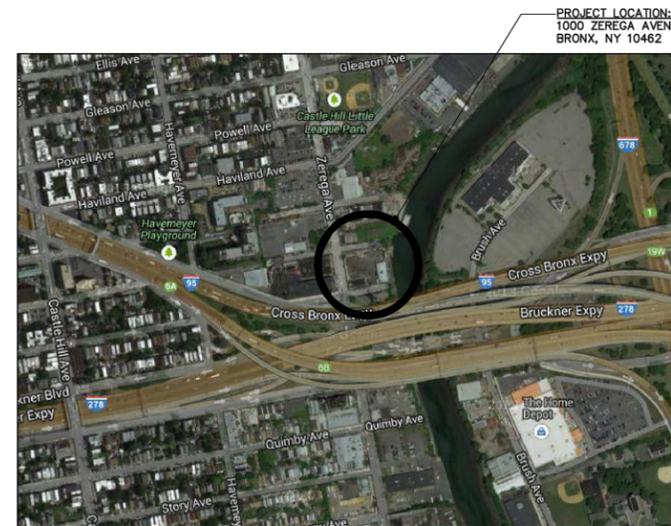
STEEL TIEBACK INSPECTION
SHEETING INSPECTION
CONCRETE INSPECTION

ZONING INFORMATION

BLOCK: 3836
LOT: 1
ZONE: M-3-1 (HEAVY MANUFACTURING)
ZONING MAP: 4b
BIN #: 2027186

LOT AREA: 57,102 SF
BLDG. AREA: 3,117.20 SF

FLOOD MAP: 3604970104F
SEPTEMBER 5, 2017
FLOOD ZONE: AE

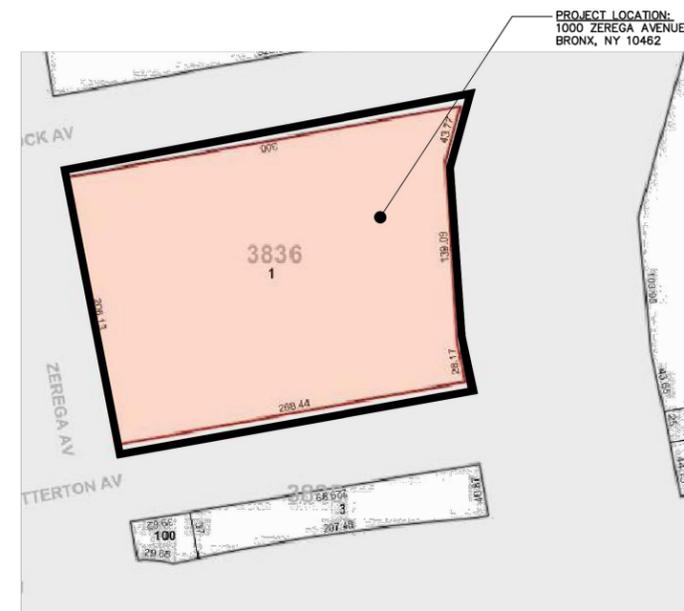


ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER
Zerega Avenue Realty, Corp
1180 Commerce Ave
Bronx, NY 10462
Contact: Chris Todino

ENGINEER
Galli Engineering, P.C.
35 Pinelawn Road - Suite 209E
Melville, NY 11747
(631) 271-9292
Contact: Richard D. Galli, P.E.

2 AERIAL MAP
SCALE: N/A



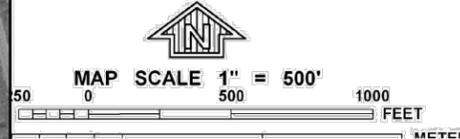
3 DIGITAL TAX MAP
SCALE: N/A



4 AERIAL MAP
SCALE: N/A

PROJECT LOCATION:
1000 ZEREGA AVENUE
BRONX, NY 10462

Flood insurance is available in this community, contact your local Flood Insurance Program at 1-800-638-6620.



PANEL 0104F

FIRM

FLOOD INSURANCE RATE MAP

CITY OF
NEW YORK,
NEW YORK,
BRONX, RICHMOND, NEW YORK,
QUEENS, AND KINGS COUNTIES

PANEL 104 OF 457

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY	NUMBER	PANEL	SUFFIX
NEW YORK, CITY OF	360497	0104	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

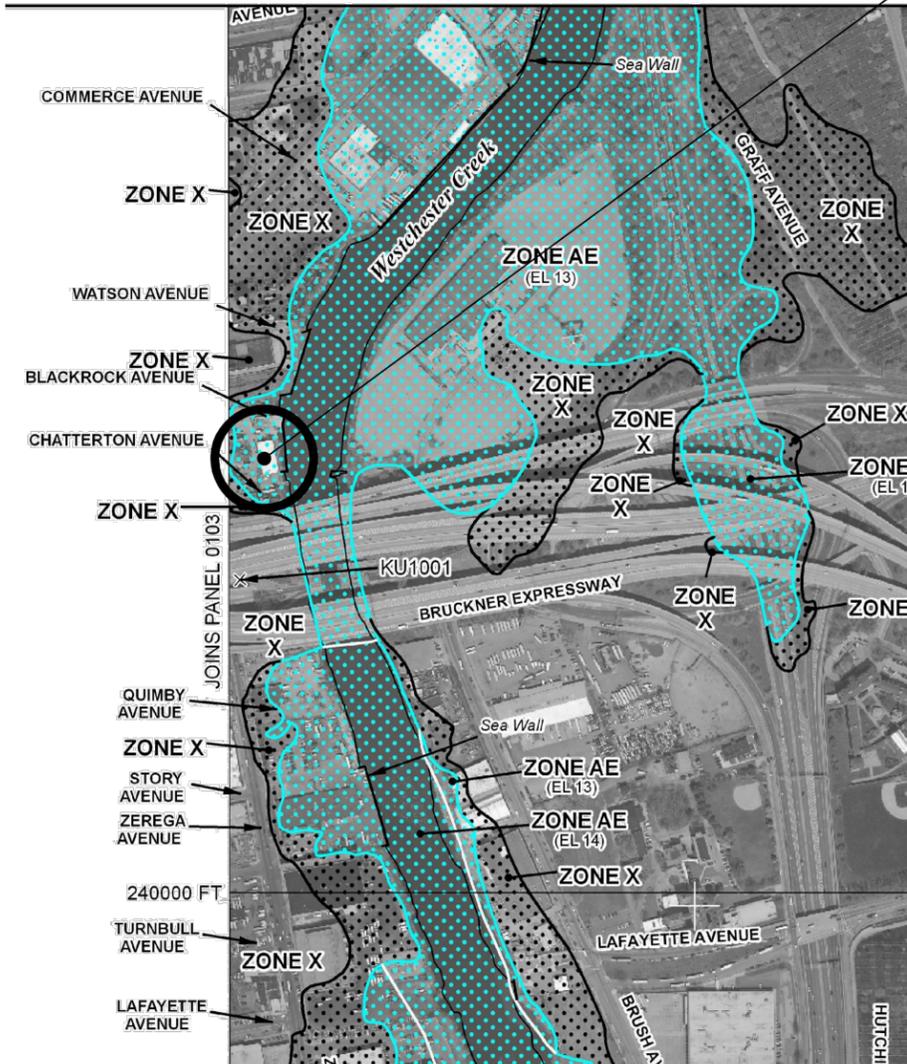


MAP NUMBER
3604970104F

MAP REVISED
SEPTEMBER 5, 2007

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



1 FEMA FLOOD MAP
ZONE AE (EL 13)

LAND INFORMATION																					
Block: 3836	Lot: 1																				
Zone: M-3	BIN: 2027186																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>09-08-20</td> <td></td> <td>REV PER NYSDEC COMMENTS 10-1-19</td> <td>SS</td> </tr> <tr> <td>07-01-19</td> <td></td> <td>SUBMITTED TO NYSDEC FOR FILING</td> <td>SC</td> </tr> </tbody> </table>		REV.	DATE	DESCRIPTION	BY	09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS	07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC								
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1000 ZEREGA AVE., BRONX, N.Y.																					
COVER SHEET																					
 Galli Engineering, P.C. 35 Pinelawn Road, Suite 209E Melville, NY 11747 Ph: 631-271-9292 Fax: 631-271-9345																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJECT NO.</td> <td>0794-02-005</td> <td>DRAWN BY</td> <td>WHT</td> </tr> <tr> <td>SCALE</td> <td></td> <td>APPROVED BY</td> <td>RDG</td> </tr> <tr> <td>DATE</td> <td></td> <td>SEAL</td> <td></td> </tr> </table>	PROJECT NO.	0794-02-005	DRAWN BY	WHT	SCALE		APPROVED BY	RDG	DATE		SEAL		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>START DATE</td> <td>03-15-18</td> <td>SHEET NO.</td> <td>1 OF 16</td> </tr> <tr> <td>APPLICATION NO.</td> <td></td> <td>DRAWING NO.</td> <td>T-000.00</td> </tr> </table>	START DATE	03-15-18	SHEET NO.	1 OF 16	APPLICATION NO.		DRAWING NO.	T-000.00
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SCALE		APPROVED BY	RDG																		
DATE		SEAL																			
START DATE	03-15-18	SHEET NO.	1 OF 16																		
APPLICATION NO.		DRAWING NO.	T-000.00																		

ABBREVIATIONS AND DESIGNATIONS

ACI	AMERICAN CONCRETE INSTITUTE	K	KIPS
ADH	ADHESIVE	KLF	KIPS PER LINEAR FOOT
AFF	ABOVE FINISH FLOOR	KSI	KIPS PER SQUARE INCH
AFPA	AMERICAN FOREST AND PAPER ASSOCIATION	KSF	KIPS PER SQUARE FOOT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	L	STEEL ANGLE
AISI	AMERICAN IRON AND STEEL INSTITUTE	LBS	POUNDS
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	LCE	LENGTH OF COMPRESSION EMBEDMENT
ANCH	ANCHOR	LCS	LENGTH OF COMPRESSION SPLICE
APPROX	APPROXIMATE	LF	LINEAR FOOT
ARCH	ARCHITECT	LH	LEFT HAND
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	LH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
		LP	LOW POINT
AWS	AMERICAN WELDING SOCIETY	LSL	LAMINATED STRUCT. LUMBER
		LTE	LENGTH OF TENSION EMBEDMENT
B-##	BEAM MARK	LTS	LENGTH OF TENSION
BD	BOARD		
BM	BEAM		
BOT	BOTTOM	LVL	LAMINATED VENEER LUMBER
B	BASE PLATE		
BP-##	BEARING PLATE MARK	MAS	MASONRY
BRG	BEARING	MAX	MAXIMUM
BS	BOTH SIDES	MC	MOMENT CONNECTION
BTWN	BETWEEN	MECH	MECHANICAL
BW	BEARING WALL	MF	MOMENT FRAME
B'	BOTTOM OF	MFR	MANUFACTURER
		MIN	MINIMUM
		MISC	MISCELLANEOUS
C-##	COLUMN MARK	MO	MASONRY OPENING
CA	COLUMN ABOVE	MTL	METAL
CBL	COLUMN BELOW		
CB	CROSS BRACING		
CANT	CANTILEVER	NDS	NATIONAL DESIGN SPEC.
CJ	CONTROL/CONSTRUCTION JOINT OR CEILING JOIST	NIC	NOT IN CONTRACT
		NO	NUMBER
		NS	NEAR SIDE
CLG	CEILING	NTS	NOT TO SCALE
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OF	OUTSIDE FACE
CONN	CONNECTION	OPNG	OPENING
CONT	CONTINUOUS	OPP	OPPOSITE
CY	CUBIC YARD CENTER LINE	P-##	PIER MARK
		PAF	POWDER ACTUATED FASTENER
		PC-## PERP	PILE CAP MARK
DB	DIAGONAL BRACE	PLF	PERPENDICULAR
DBL	DOUBLE	PLYWD	PLYWOOD
DIAG	DIAGONAL	PROJ	PROJECT OR PROJECTION
DIAM	DIAMETER		
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PSL	PARALLEL STRAND LUMBER
		PT	PRESERVATIVE TREATED
EA	EACH		
EF	EACH FACE		
EJ	EXPANSION JOINT		
EL	ELEVATION	QTY	QUANTITY
ELEV	ELEVATOR		
EMBED	EMBEDMENT	R-##	RAFTER MARK
EOD	EDGE OF DECK	RD	ROOF DRAIN
EOS	EDGE OF SLAB	REF	REFERENCE
EQ	EQUAL	REINF	REINFORCEMENT
EQUIP	EQUIPMENT	REQD	REQUIRED
EW	EACH WAY	RTU	ROUGH TOP UNIT
EX	EXISTING	RO	ROUGH OPENING
EXIST	EXISTING		
EXP	EXPANSION	SC	SHEAR CONNECTOR
EXT	EXTERIOR	SCHED	SCHEDULE
		SECT	SECTION
		SF	STEPPED FOOTING OR SQUARE FOOT
F-##	FOOTING MARK	SIM	SIMILAR
FD	FLOOR DRAIN	SJI	STEEL JOIST INSTITUTE
FDN	FOUNDATION	SL	SLAB
FIN	FINISH	SOG	SLAB ON GRADE
FL	FLOOR	SPEC	SPECIFICATION
FS	FAR SIDE	STD	STANDARD
FT	FOOT OR FEET	STL	STEEL
FTG	FOOTING	SW	SHEAR WALL
		SWB	SHEAR WALL BEAM
GA	GAGE		
GALV	GALVANIZED		
GB-##	GRADE BEAM MARK	THK	THICK
GEN	GENERAL	THRD	THREADED
GYP	GYPSPUM	TPI	TRUSS PLATE INSTITUTE
		TYP	TYPICAL
HGR	HANGER	T'	TOP OF
HK	HOOK		
HORIZ	HORIZONTAL	UON	UNLESS OTHERWISE NOTED
HP	HIGH POINT		
HT	HEIGHT		
HVAC	HEATING VENTILATING AIR CONDITIONING	VERT	VERTICAL
		VIF	VERIFY IN FIELD
ID	INSIDE DIAMETER	WP	WATERPROOF OR WORKING POINT
IF	INSIDE FACE	WT	WEIGHT
INT	INTERIOR	WWF	WELDED WIRE FABRIC
INV	INVERT	W/O	WITHOUT
		W'	WITH
J-##	JOIST MARK	W	
JT	JOINT	#	POUNDS OR NUMBER
		Ø	DIAMETER

GENERAL NOTES

- THE WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NEW YORK STATE BUILDING CODE FOR THE PROJECT LOCATED AT 1000 ZEREGA AVENUE, BRONX, NY.
- THIS STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO ALL RELATED ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, ERECTION METHODS, ERECTION SEQUENCE, TEMPORARY BRACING, FORMS, SHORING USE OF EQUIPMENT, AND SIMILAR CONSTRUCTION PROCEDURES. REVIEW OF THE CONSTRUCTION BY THE ENGINEER IS FOR CONFORMANCE WITH DESIGN ASPECTS ONLY, NOT TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, PROVIDING AND INSTALLING ALL TEMPORARY SHORING THAT IS REQUIRED TO SUPPORT INSTABILITIES DURING CONSTRUCTION. THESE SHORING REQUIREMENTS ARE GENERALLY SHOWN ON THE DRAWINGS. HOWEVER, ALL CONDITIONS MAY NOT BE SHOWN DUE TO HIDDEN CONDITIONS AT EXISTING STRUCTURES.
- CONSTRUCTION LOADS FOR ANY PORTION OF THE JOB STRUCTURES SHALL NOT BE IMPOSED UNTIL THE CONCRETE CYLINDER STRENGTH FOR THOSE MEMBERS AND CONNECTING JOINTS HAVE REACHED 80% OF THE 28 DAYS CONCRETE STRENGTH. IN CASE OF DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN.
- ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND INSTALLATION OF MATERIALS AND DISPOSAL ARE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE PERMITS AND LICENSES AND ABIDE BY ALL CONDITIONS OF THE PERMITS. CONTRACTOR SHALL KEEP COPIES OF THE SAME ON SITE DURING CONSTRUCTION.
- CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS.
- CODES AND REFERENCES:
 - 2014 NYC BC WITH UPDATES.
 - ACI 301 AMERICAN CONCRETE INSTITUTE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
 - ACI 318-05/318R-05 AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY"
 - AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION "MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN" OR "MANUAL OF CONSTRUCTION LRFD DESIGN"
 - ASCE 7-05 AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
 - AWS D1.1 AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE STEEL".
 - EM 1110-2-2504 "DESIGN OF SHEET PILE WALLS", US ARMY CORPS OF ENGINEERS.
 - PIANC INTERNATIONAL NAVIGATION ASSOCIATION, "GUIDELINE FOR THE DESIGN OF FENDER SYSTEMS 2002".
 - UFC 4-151-10 GENERAL CRITERIA FOR WATERFRONT CONSTRUCTION.
 - UFC 4-152-01 DESIGN: PIERS AND WHARVES.
 - UFC 4-159-03 DESIGN: MOORINGS.
- STEEL, CONCRETE, SOIL AND PILE FOUNDATION SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE NYC BC. ALL SPECIAL INSPECTION SERVICE WILL BE PAID BY THE OWNER. THE CONTRACTOR SHALL COORDINATE SPECIAL INSPECTIONS WITH THE OWNER AND SEQUENCE THEIR WORK TO ACCOMMODATE SPECIAL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE A BOAT AND OPERATOR AND ANY OTHER PROVISIONS THAT ARE NECESSARY TO GIVE ACCESS TO SPECIAL INSPECTOR TO THE WORK BEING INSPECTED.
- JOBSITE SAFETY AND CONSTRUCTION PROCEDURES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- ONE BLACK LINE PRINT OF ALL ERECTION AND DETAIL SHOP DRAWINGS FOR STEEL REINFORCING BARS (CONCRETE AND MASONRY CONSTRUCTION), STRUCTURAL STEEL, INDICATING THE FABRICATOR, MANUFACTURER, FINISH, LAYOUT, AND ALL ACCESSORIES MUST BE SUBMITTED TO AND BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR THE CHECKER'S INITIALS BEFORE SUBMISSION TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- IF FAULTY CONSTRUCTION PROCEDURES, OR MATERIAL, RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING TIME TO DEVISE CORRECTIVE MEASURES, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE OF ADDITIONAL SERVICES. SUCH FEES MAY BE WITHHELD FROM THE GENERAL CONTRACTOR'S PAYMENT.
- THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS, ELEVATIONS AND ANGLES WITH ENGINEERED DRAWINGS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
- SOME DETAILS OF THE WORK ARE SHOWN ON THE ENGINEERED DRAWINGS. A CAREFUL REVIEW AND STUDY OF THESE DETAILS ARE NECESSARY BEFORE THE FULL SCOPE OF THE WORK CAN BE COMPREHENDED.
- THESE DRAWINGS ARE SUPPLEMENTED BY A DETAILED TECHNICAL SPECIFICATION. THE NOTES SHOWN UNDER CERTAIN CATEGORIES OF WORK ARE INTENDED TO SUMMARIZE BASIC REQUIREMENTS.
- DO NOT SCALE DRAWINGS.

CONSTRUCTION NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO ALL THE REQUIREMENTS OF A.C.I. 301-95, "SPECIFICATIONS FOR STRUCTURAL CONCRETE IN BUILDINGS", AND CHAPTER 19 OF THE BCNY.
- CONCRETE SHALL BE THE SPECIFIED WEIGHT AND DEVELOP A MINIMUM STRENGTH IN 28 DAYS AS FOLLOWS; IN ACCORDANCE WITH TABLE 1904.2.2

LOCATION	WEIGHT	STRENGTH
WALLS - GENERAL	NORMAL	6000 PSI
SLAB-ON-GRADE	NORMAL	6000 PSI

- ALL DETAILING FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- CONCRETE DESIGN MIX WILL BE SUBMITTED TO THE ENGINEER FOR REVIEW, TOGETHER WITH LABORATORY REPORTS ATTESTING THAT THE MIXES CAN ATTAIN THE MINIMUM STRENGTH REQUIRED IN ACCORDANCE WITH CHAPTER 3 OF ACI 301-95. ALSO SEE CHAPTER 17 IBC.
- NO ADMIXTURES ARE PERMITTED WITHOUT THE ENGINEERS WRITTEN PERMISSION OTHER THAN ENTRAINED AIR. CONCRETE EXPOSED TO THE WEATHER, SUCH AS THAT USED IN FOUNDATION WALLS, SHALL CONTAIN 5 ± 1 % ENTRAINED AIR. DO NOT USE AIR ENTRAINMENT ADMIXTURE FOR INTERIOR SLABS.

- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, AND SECTION 1907 OF THE IBC.
- THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT: IN ACCORDANCE WITH TABLE 1907.7.1

COVER (INCHES)	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2
#5 BAR AND SMALLER	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND, SLABS, WALLS, JOISTS:	
#14 AND #18 BARS	1 1/2
#11 BAR AND SMALLER	3/4
BEAMS, COLUMNS - PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2

- CONCRETE SLABS SHALL BE PROTECTED FROM LOSS OF SURFACE MOISTURE FOR NOT LESS THAN 7 DAYS BY USING A CURING COMPOUND CONFORMING TO ASTM C-309 OR BY WET BURLAP OR A PLASTIC MEMBRANE. MINIMUM SLAB PROVISIONS IN ACCORDANCE WITH IBC SEC. 1911
- NO WELDING OF REINFORCING WILL BE PERMITTED.
- SUBMITTALS TO THE ENGINEER ARE REQUIRED FOR CEMENT, REINFORCING BARS, ADMIXTURES, AGGREGATES AND FORMWORK AS SPECIFIED IN SECTION 03300.
- ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-99. AND IN ACCORDANCE W/ SEC. 21.2.8.2 IBC.
- EPOXY-BONDING ADHESIVE: ASTM C881. TWO-COMPONENT EPOXY RESIN, CAPABLE OF HUMID CURING AND BONDING TO DAMP SURFACES, OF CLASS AND GRADE TO SUIT REQUIREMENTS AND AS FOLLOWS: TYPES IV AND V, LOAD BEARING, FOR BONDING HARDENED OR FRESHLY MIXED CONCRETE TO HARDENED CONCRETE.

POURED CONCRETE NOTES

CONCRETE STRENGTH. CONCRETE SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH (F'C) OF NOT LESS THAN 6,000 PSI AT 28 DAYS.

PLACEMENT OF CONCRETE. CONCRETE SHALL NOT BE PLACED THROUGH WATER UNLESS A TREMIE OR OTHER METHOD APPROVED BY THE CODE ENFORCEMENT OFFICIAL IS USED. WHERE PLACED UNDER OR IN THE PRESENCE OF WATER, THE CONCRETE SHALL BE DEPOSITED BY APPROVED MEANS TO ENSURE MINIMUM SEGREGATION OF THE MIX AND NEGLIGIBLE TURBULENCE OF THE WATER.

PROTECTION OF CONCRETE. CONCRETE SHALL BE PROTECTED FROM FREEZING DURING DEPOSITING AND FOR A PERIOD OF NOT LESS THAN 5 DAYS THEREAFTER. WATER SHALL NOT BE ALLOWED TO FLOW THROUGH THE DEPOSITED CONCRETE.

FORMING OF CONCRETE. CONCRETE IS PERMITTED TO BE CAST AGAINST THE EARTH WHERE, IN THE OPINION OF THE CODE ENFORCEMENT OFFICIAL, SOIL CONDITIONS DO NOT REQUIRE FORMING. WHERE FORMING IS REQUIRED.

TABLE 1804.2 ALLOWABLE SOIL LATERAL PRESSURE SITE IS CONSIDERED GM FOR PURPOSES OF DESIGN

Soil type	Foundation Pressure	Lateral Bearing below grade	friction coeff.	Resistance
1. Sandy gravel and/or gravel (GW and GP)	3,000	200	0.35	---
2. Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW, SP, SM, SC, GM and GC)	2,000	150	0.25	---
3. Clay, sandy clay, silty clay, clayey silt, silt and sandy silt (CL, ML, MH and CH)	1,500	100	---	130

TABLE 1610.1 SOIL LATERAL LOAD SITE IS CONSIDERED GM FOR PURPOSES OF DESIGN

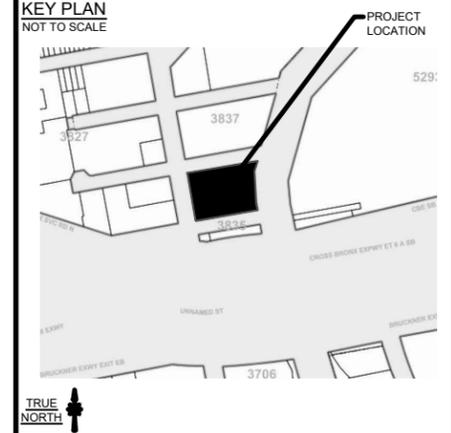
DESCRIPTION OF BACKFILL MATERIAL	DESIGN LATERAL SOIL LOAD (pound per square foot)	UNIFIED SOIL (per foot of depth)
Well-graded, clean gravels; gravel-sand mixes	GW	30c
Poorly graded clean gravels; gravel-sand mixes	GP	30c
Silty gravels, poorly graded gravel-sand mixes	GM	40c
Clayey gravels, poorly graded gravel-and-clay mixes	GC	45c
Well-graded, clean sands; gravelly sand mixes	SW	30c
Poorly graded clean sands; sand-gravel mixes	SP	30c
Silty sands, poorly graded sand-silt mixes	SM	45c
Sand-silt clay mix with plastic fines	SM-SC	45d
Clayey sands, poorly graded sand-clay mixes	SC	60d
Inorganic silts and clayey silts	ML	45d
Mixture of inorganic silt and clay	ML-CL	60d
Inorganic clays of low to medium plasticity	CL	60d

- Design lateral soil loads are given for moist conditions for the specified soils at their optimum densities. Actual field conditions shall govern. Submerged or saturated soil pressures shall include the weight of the buoyant soil plus the hydrostatic loads.
- Unsuitable as backfill material.
- For relatively rigid walls, as when braced by floors, the design lateral soil load shall be increased for sand and gravel type soils to 60 pounds per square foot per foot of depth. Basement walls extending not more than 8 feet below grade and supporting flexible floor systems are not considered as being relatively rigid walls.
- For relatively rigid walls, as when braced by floors, the design lateral load shall be increased for silt and clay type soils to 100 pounds per square foot per foot of depth. Basement walls extending not more than 8 feet below grade and supporting flexible floor systems are not considered as being relatively rigid walls.
- The definition and classification of soil materials shall be in accordance with ASTM D 2487.

- CHAMFER OF ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" 45° CHAMFERS UNLESS OTHERWISE NOTED.
- ALL REINFORCEMENT BARS SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, IN ACCORDANCE WITH ACI 318, CHAPTER 12, UNLESS OTHERWISE NOTED. SPLICES SHALL BE LOCATED AWAY FROM POINTS OF MAXIMUM TENSILE STRESS.

STRUCTURAL AND MISCELLANEOUS STEEL

- ALL STEEL SHALL BE PREFORMED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. ALL WELDING SHALL CONFORM WITH AWS D1.1
- ALL STRUCTURAL STEEL SHAPES, PLATES, BARS, FABRICATIONS AND ALL HARDWARE SHALL BE GALVANIZED BY THE HOT-DIPPED PROCESS IN ACCORDANCE WITH THE SPECIFICATIONS.
- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
 - SHEET PILES.....ASTM A 890, GRADE 50
 - MISC. SHAPES, PLATES AND BARS.....ASTM A 572, GRADE 50, GALV.
 - FENDER SYSTEM BOLTS.....ASTM F 593, TYPE 316
 - FENDER SYSTEM NUTS.....ASTM F 594, TYPE 316
 - PIPE PILES.....ASTM A 252, GRADE 3
 - ANCHOR BOLTS.....ASTM A 449, GALV.
 - PIPE.....ASTM A 53



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER
Zerega Avenue Realty, Corp
1180 Commerce Ave
Bronx, NY 10462
(347) 810-9984
Contact: Chris Todino

ENGINEER
Galli Engineering, P.C.
35 Pinelawn Road - Suite 209E
Melville, NY 11747
(631) 271-9292
Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

09-08-20	REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19	SUBMITTED TO NYSDEC FOR FILING	SC

REV. DATE DESCRIPTION BY

PROJECT
ZEREGA AVENUE REALTY, CORP
BULKHEAD

LOCATION
1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE
NOTES

Galli Engineering, P.C.
35 Pinelawn Road, Suite 209E
Melville, NY 11747
Ph: 631-271-9292 Fax: 631-271-9345

PROJECT NO.	0794-02-005	DRAWN BY	SC	CHECKED BY	WHT
DATE		APPROVED BY	RDG		

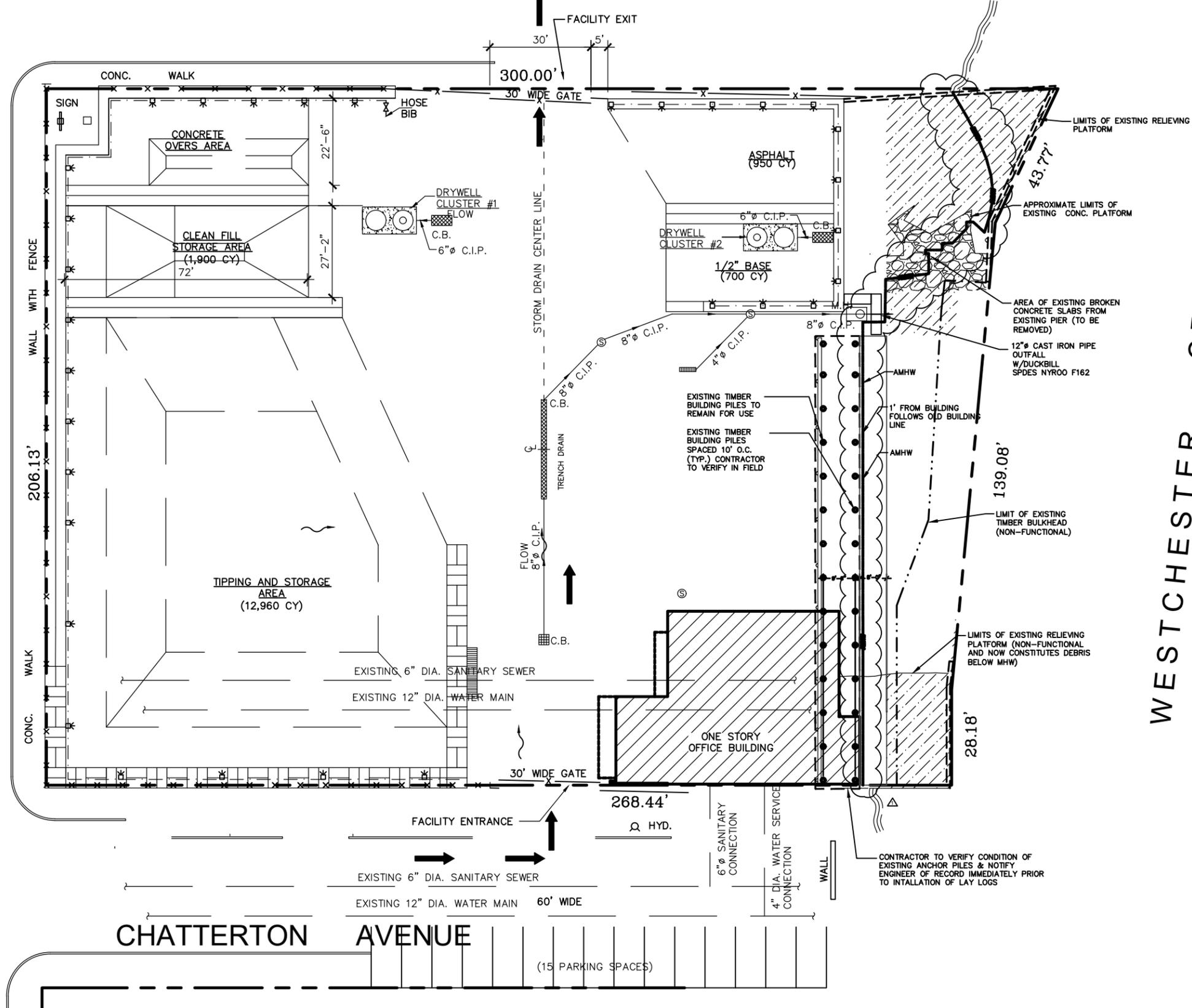
APPLICATION NO.	START DATE	SHEET NO.
	03-15-18	2 OF 16
DRAWING NO.	T-101.00	



ZEREGA AVENUE

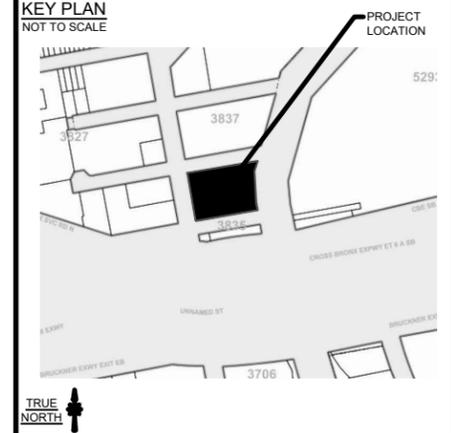
BLACKROCK AVENUE

WESTCHESTER CREEK



1 EXISTING SITE PLAN
SCALE: 1/16" = 1'-0"

LEGEND	DESCRIPTION
	PROPERTY LINE
	APPARENT MEAN HIGH WATER LINE



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER
Zerega Avenue Realty, Corp
1180 Commerce Ave
Bronx, NY 10462
Contact: Chris Todino

ENGINEER
Galli Engineering, P.C.
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Melville, NY 11747
(631) 271-9292
Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

PROJECT
ZEREGA AVENUE REALTY, CORP
BULKHEAD

LOCATION
1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE
EXISTING SITE PLAN

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Melville, NY 11747
Ph: 631-271-9292 Fax: 631-271-9345

FILE USE ONLY	PROJECT NO.	DRAWN BY	CHECKED
	0794-02-005	SC	WHT

APPLICATION NO.	START DATE	SHEET NO.
	03-15-18	3 OF 16

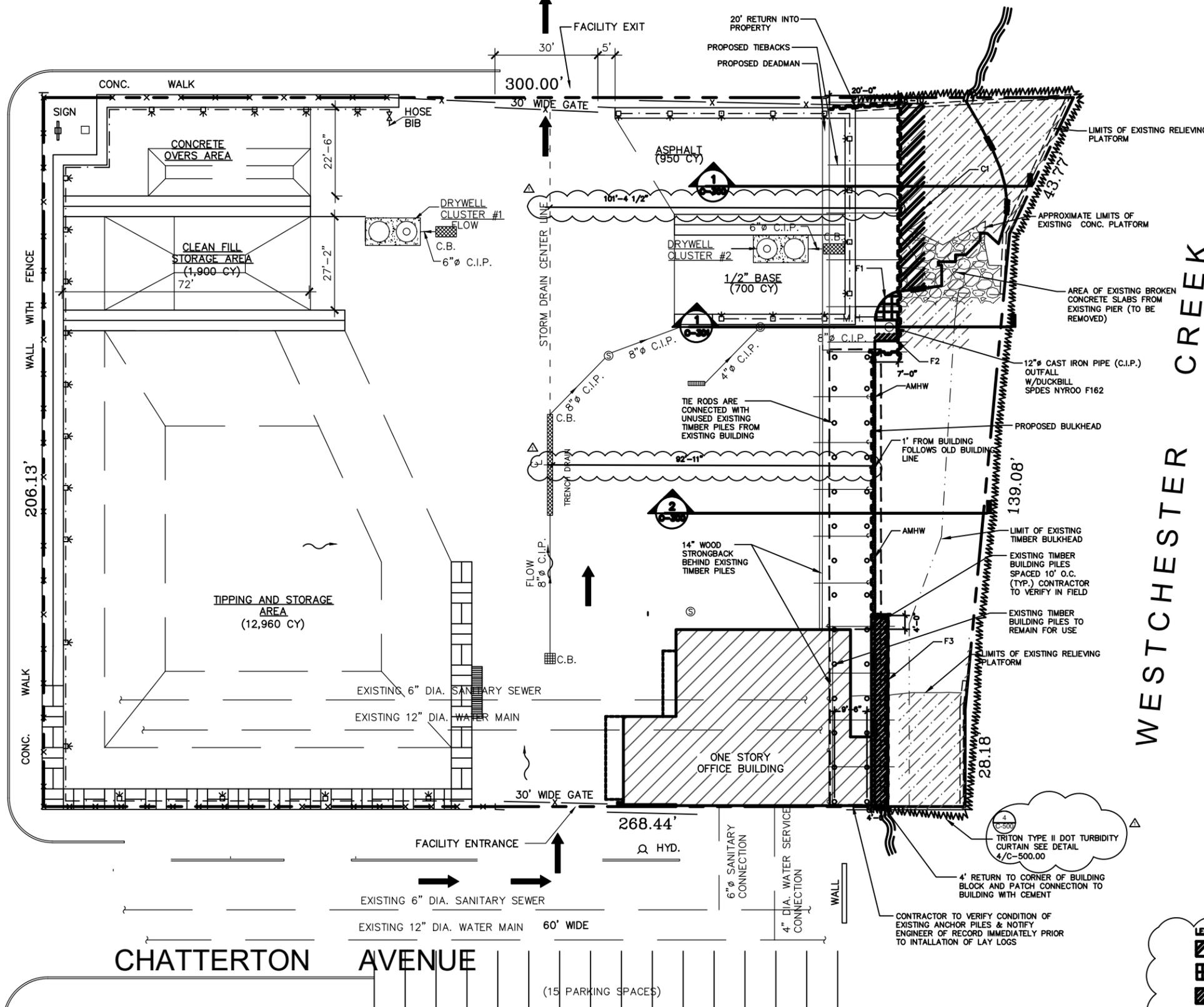
DRAWING NO.
C-100.00

ZEREGA AVENUE

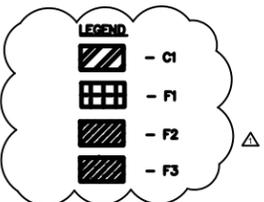
BLACKROCK AVENUE

CHATTERTON AVENUE

WESTCHESTER CREEK

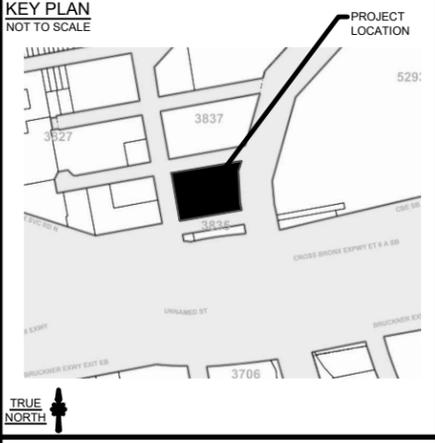


FILLING	CUTTING
F1 = 40 SQ FT	C1 = 330.8 SQ FT
F2 = 13 SQ FT	
F3 = 271 SQ FT	
40 SQ FT	324 SQ FT
13 SQ FT	330.8 SQ FT
+ 271 SQ FT	
TOT = 324 SQ FT	NET FILL = -6.2 SQ FT



LEGEND	DESCRIPTION
	TURBIDITY CURTAIN LINE
	PROPERTY LINE
	APPARENT MEAN HIGH WATER LINE

1 PROPOSED SHEET BULKHEAD PLAN
SCALE: 1/16" = 1'-0"



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER: Zerega Avenue Realty, Corp
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Bronx, NY 10462
Contact: Chris Todino

ENGINEER: Galli Engineering, P.C.
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Melville, NY 11747
(347) 810-9984
Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

PROJECT: ZEREGA AVENUE REALTY, CORP BULKHEAD

LOCATION: 1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE: PROPOSED BULKHEAD PLAN

Galli Engineering, P.C.
35 Pinelawn Road, Suite 209E
Melville, NY 11747
Ph: 631-271-9292 Fax: 631-271-9345

DATE	BY	DATE	BY
0794-02-005	WHT	03-15-18	RDG
SC	RDG		

APPLICATION NO. START DATE SHEET NO. 03-15-18 4 OF 16
DRAWING NO. C-101.00

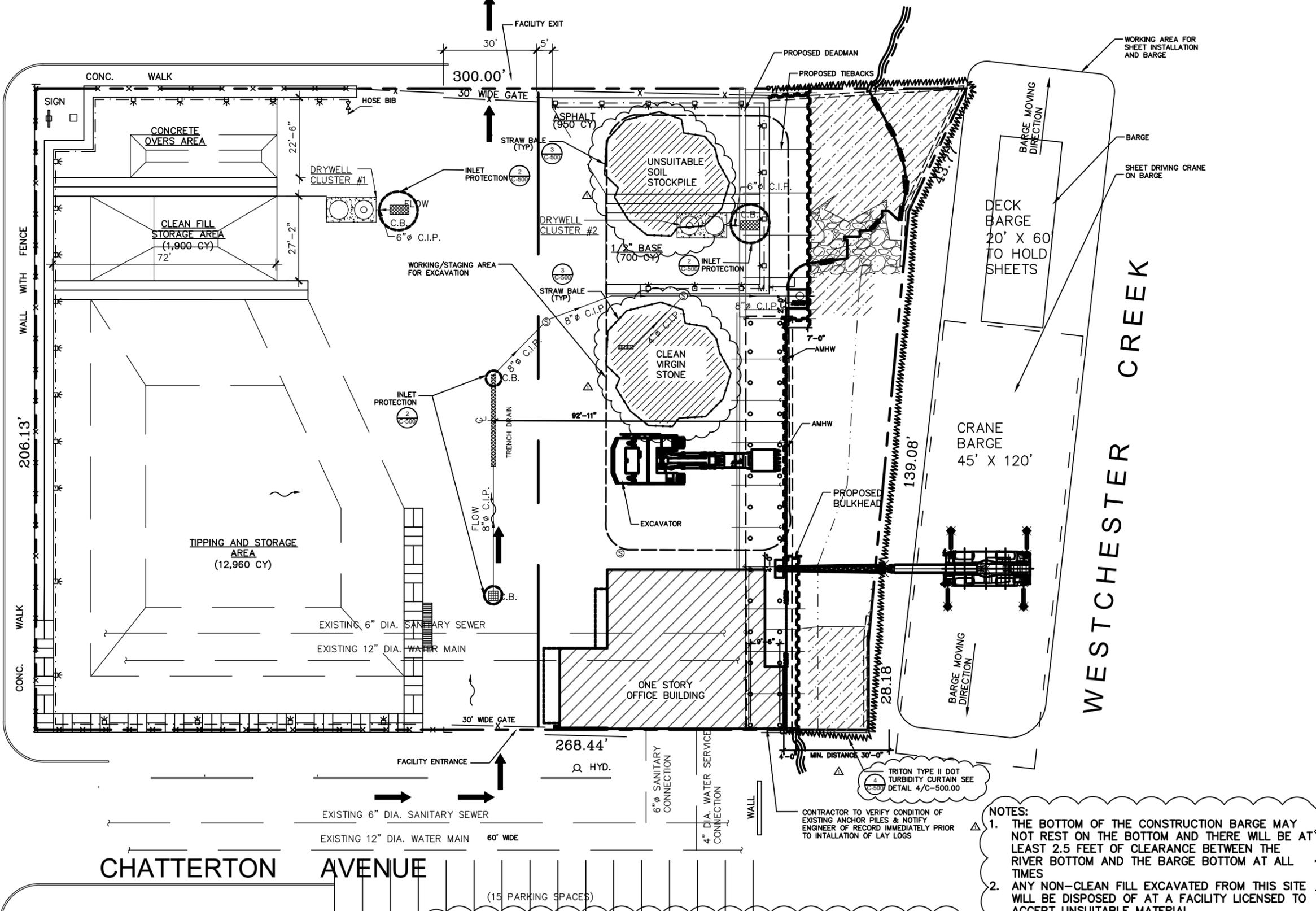
UNAUTHORIZED ALTERATION OF, OR ADDITION TO PLANS OR DOCUMENTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. ANY ALTERATION TO THIS DOCUMENT MUST BE DONE BY A PERSON ACTING UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL IN ACCORDANCE WITH THE STATE EDUCATION LAW. COPIES OF THIS DOCUMENT NOT MARKED WITH AN ORIGINAL OF THE PROFESSIONAL ENGINEER'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED NOT TO BE VALID TRUE COPIES.

ZEREGA AVENUE

BLACKROCK AVENUE

CHATTERTON AVENUE

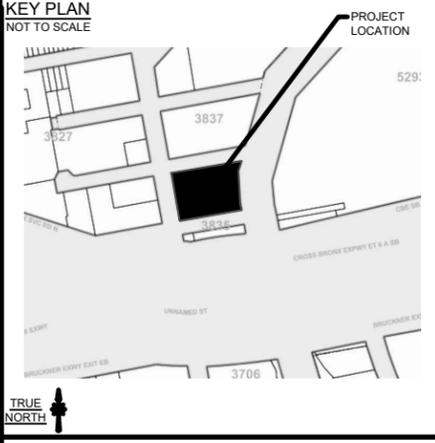
WESTCHESTER CREEK



1 EQUIPMENT STAGING LOCATION PLAN
SCALE: 1/16" = 1'-0"

LEGEND	DESCRIPTION	LEGEND	DESCRIPTION
	TURBIDITY CURTAIN LINE		BARGE LINE
	STAKED HAY BALE LINE		PROPERTY LINE
			APPARENT MEAN HIGH WATER LINE

- NOTES:
1. THE BOTTOM OF THE CONSTRUCTION BARGE MAY NOT REST ON THE BOTTOM AND THERE WILL BE AT LEAST 2.5 FEET OF CLEARANCE BETWEEN THE RIVER BOTTOM AND THE BARGE BOTTOM AT ALL TIMES
 2. ANY NON-CLEAN FILL EXCAVATED FROM THIS SITE WILL BE DISPOSED OF AT A FACILITY LICENSED TO ACCEPT UNSUITABLE MATERIAL
 3. BEST MANAGEMENT PRACTICES ARE STRAW BALES AND GRATE GATOR INLET PROTECTION



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER
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Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

PROJECT
ZEREGA AVENUE REALTY, CORP
BULKHEAD

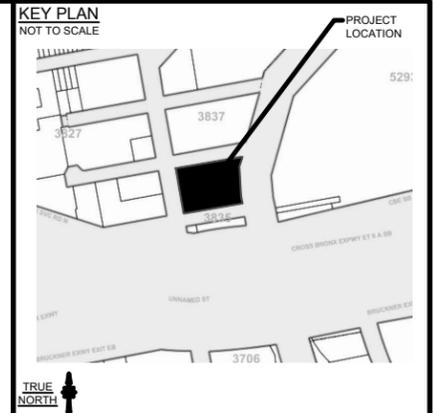
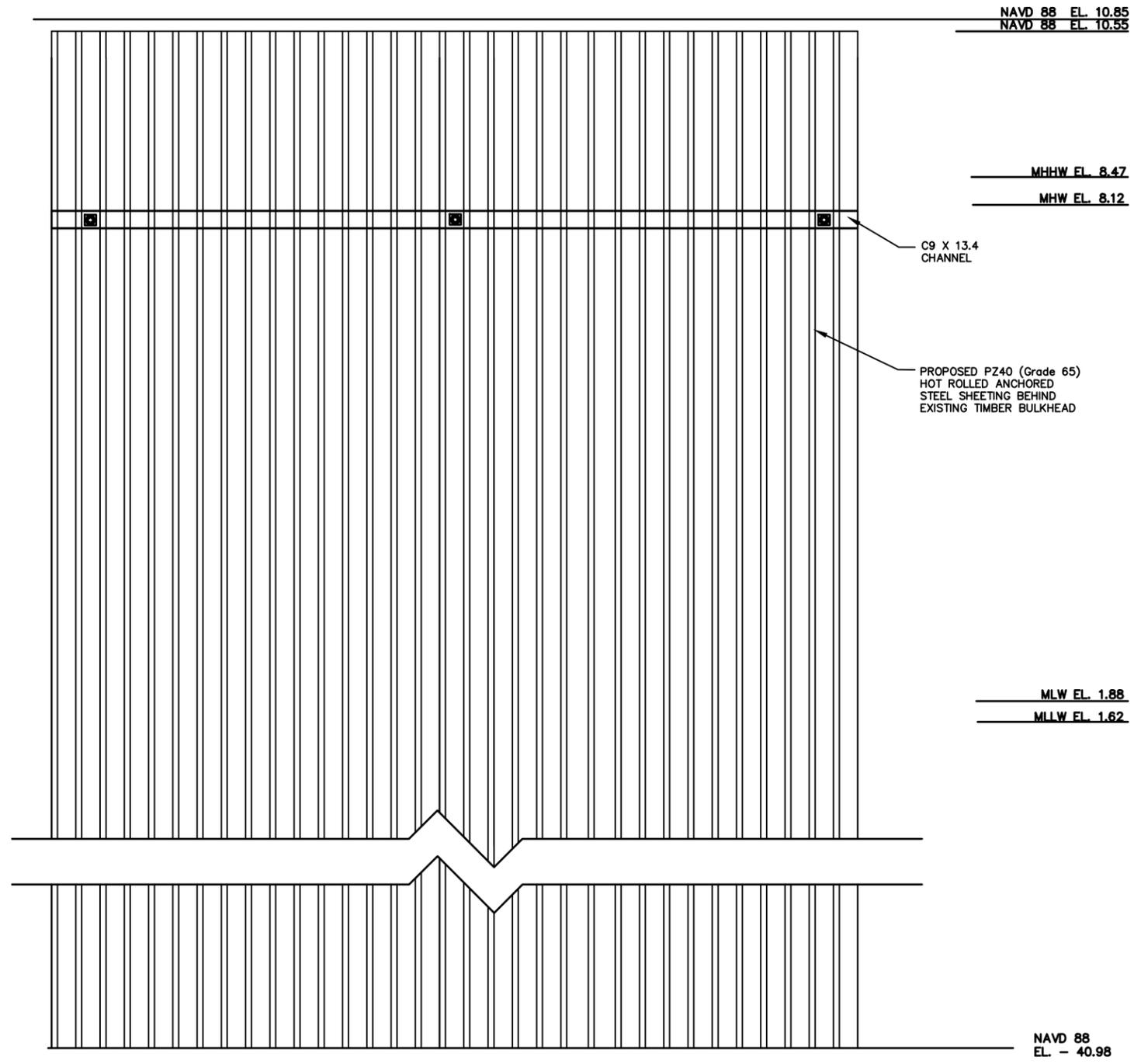
LOCATION
1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE
EQUIPMENT STAGING LOCATION
PLAN

Galli Engineering, P.C.
35 Pinelawn Road, Suite 209E
Melville, NY 11747
Ph: 631-271-9292 Fax: 631-271-9345

DATE	BY	DATE	BY
0794-02-005	WHT		
SC	RDG		

APPLICATION NO. START DATE 03-15-18 SHEET NO. 6 OF 16
DRAWING NO. C-103.00



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER
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ENGINEER
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 (631) 271-9292
 Contact: Richard D. Galli, P.E.

LAND INFORMATION
 Block: 3836
 Lot: 1
 Zone: M-3
 BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

ZEREGA AVENUE REALTY, CORP
BULKHEAD

1000 ZEREGA AVE., BRONX, N.Y.

SHEET ELEVATION

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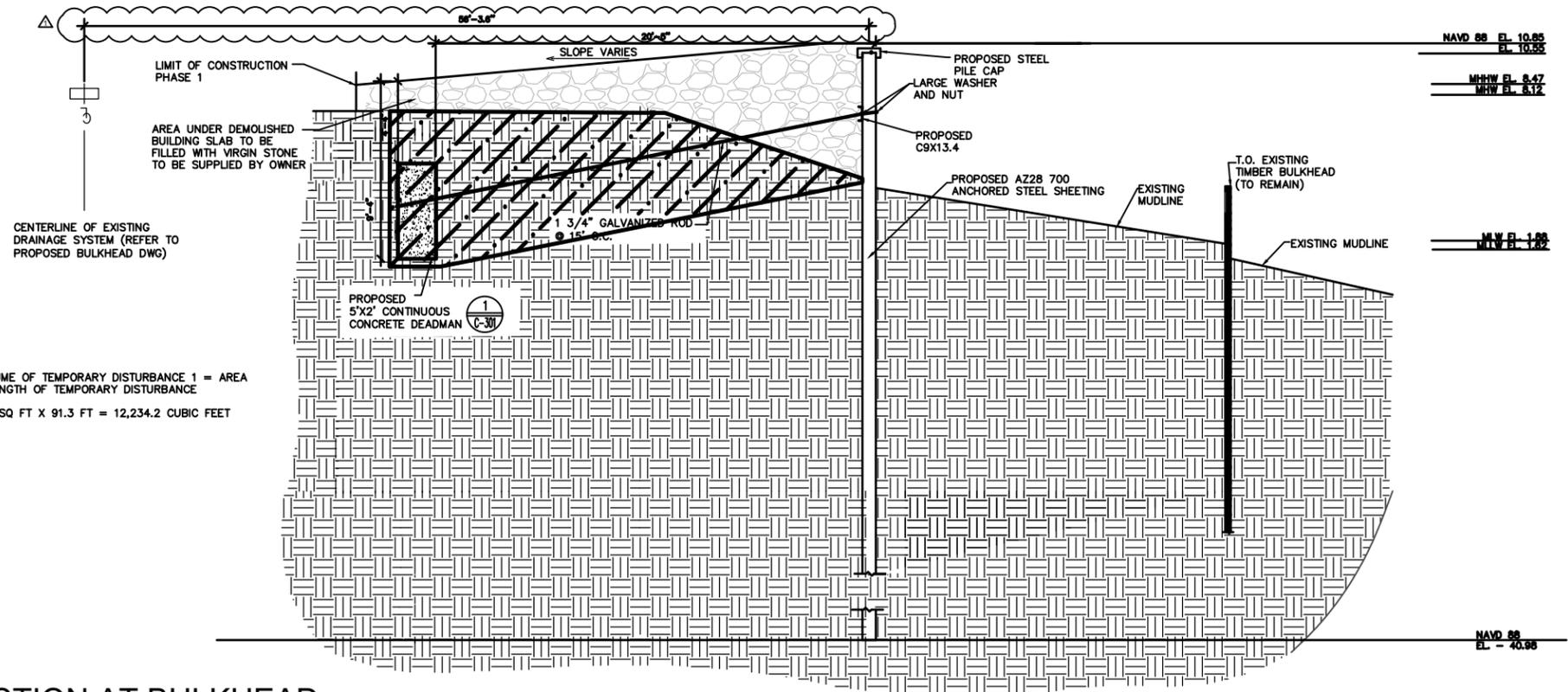
PROJECT NO.	0794-02-005	DRAWN BY	SC	CHECKED	WHT
		APPROVED	RDG		

APPLICATION NO.	START DATE	SHEET NO.
	03-15-18	7 OF 16

DRAWING NO. **C-200.00**

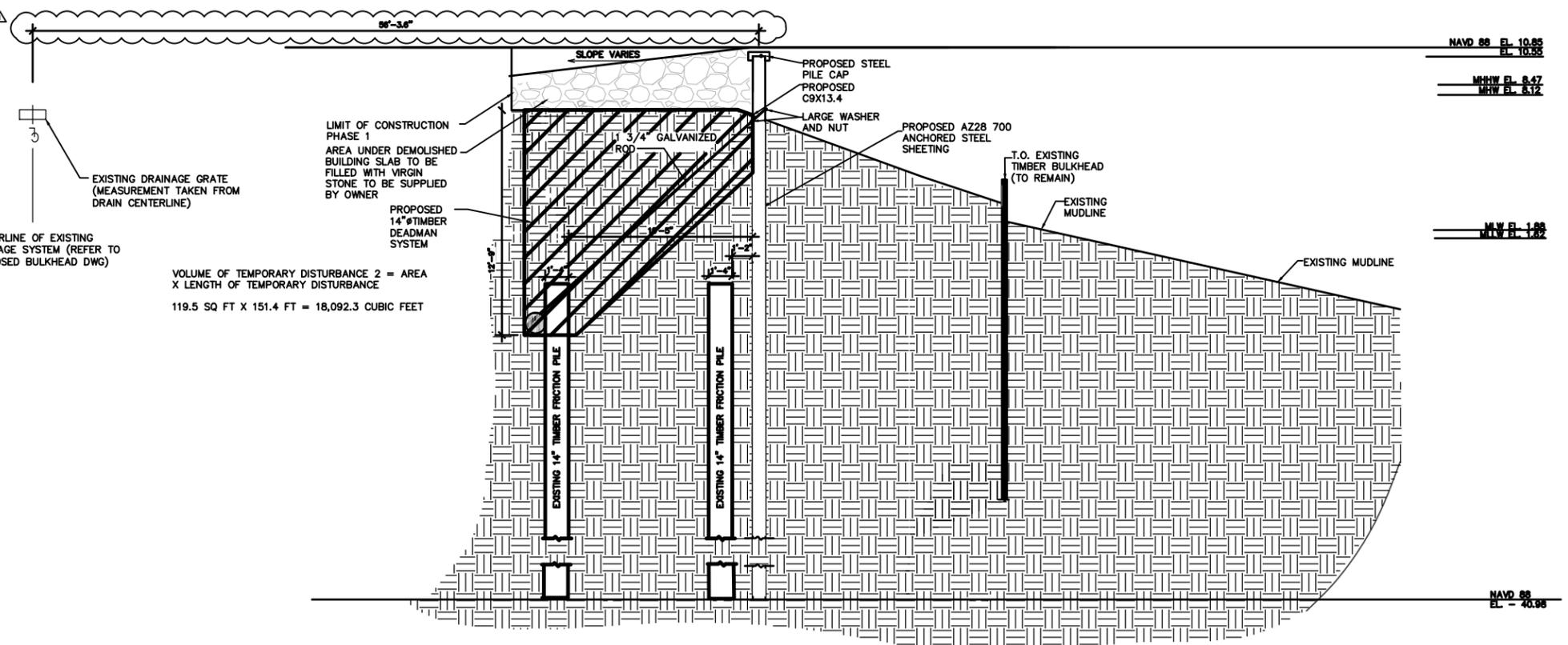
1 SHEET ELEVATION
 SCALE: NTS

- Hydrographic Note:
- Hydrographic survey performed by Rogers Surveying, PLLC 2420 Arthur Kill Road, Staten Island, N.Y. 10309 Date: 05/16/19
 - Water elevations are based on NAVD 88 by NOAA Elevation for station 8518639 Port Morris, NY



1 SECTION AT BULKHEAD
SCALE: NTS

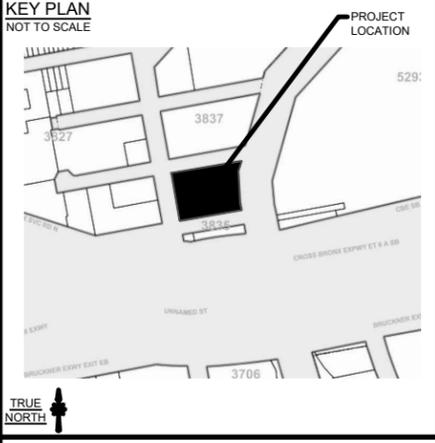
VOLUME OF TEMPORARY DISTURBANCE 1 = AREA X LENGTH OF TEMPORARY DISTURBANCE
134 SQ FT X 91.3 FT = 12,234.2 CUBIC FEET



2 SECTION AT BULKHEAD
SCALE: NTS

VOLUME OF TEMPORARY DISTURBANCE 2 = AREA X LENGTH OF TEMPORARY DISTURBANCE
119.5 SQ FT X 151.4 FT = 18,092.3 CUBIC FEET

NOTE: BULKHEAD AT BUILDING IS 4' SEAWARD OF PILE



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

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(631) 271-9292
Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

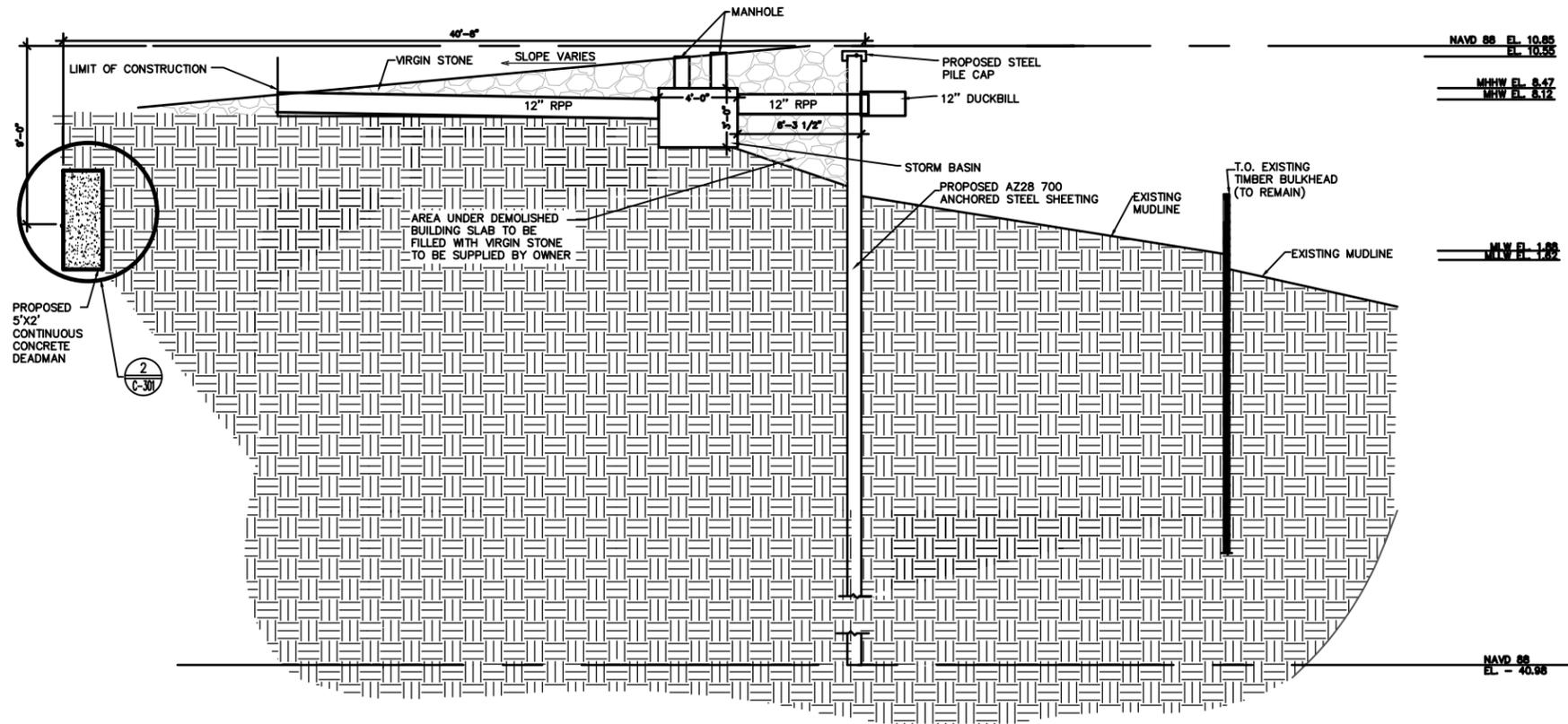
ZEREGA AVENUE REALTY, CORP
BULKHEAD

1000 ZEREGA AVE., BRONX, N.Y.

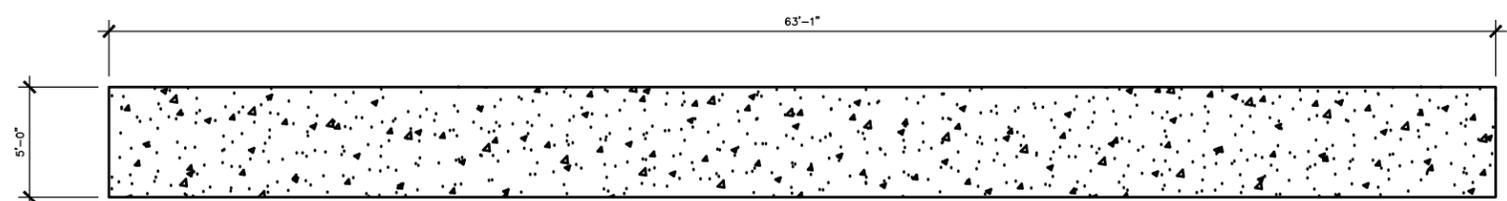
BULKHEAD SECTIONS

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35 Pinelawn Road, Suite 209E
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Ph: 631-271-9292 Fax: 631-271-9345

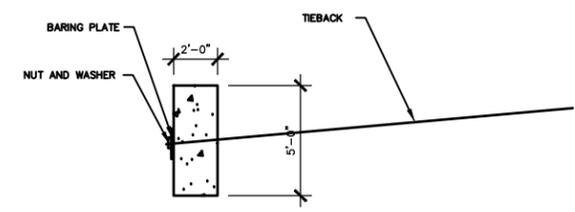
PROJECT NO. 0794-02-005	CHECKED BY WHT
DRAWN BY SC	APPROVED BY RDG
APPLICATION NO.	START DATE 03-15-18
	SHEET NO. 8 OF 16
DRAWING NO. C-300.00	



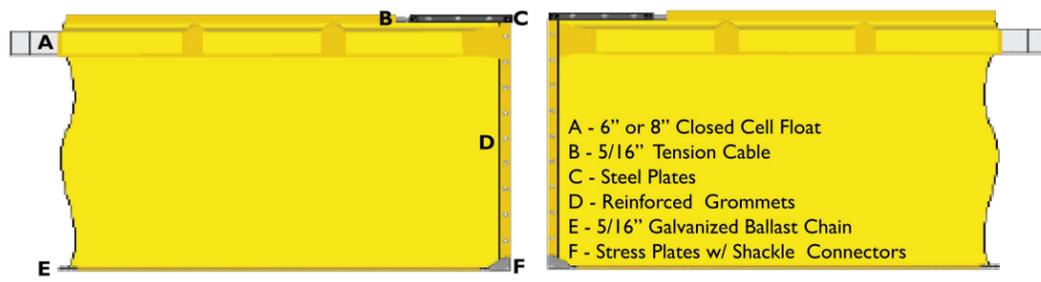
1 SECTION AT BULKHEAD
SCALE: NTS



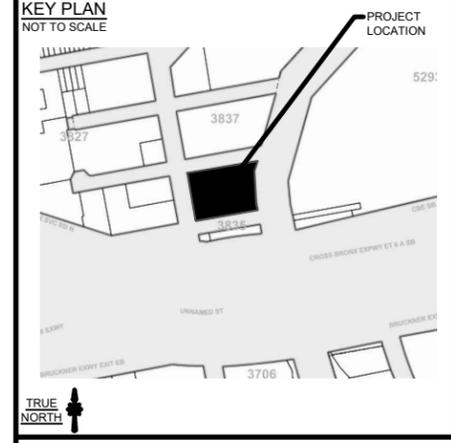
2 CONCRETE DEADMAN DETAIL
SCALE: 1/4"=1'-0"



3 TURBIDITY CURTAIN DETAIL
SCALE: NTS



Hydrographic Note:
 1. Hydrographic survey performed by Rogers Surveying, PLLC 2420 Arthur Kill Road, Staten Island, N.Y. 10309 Date: 05/16/19
 2. Water elevations are based on NAVD 88 by NOAA Elevation for station 8518639 Port Morris, NY



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186
 OWNER: Zerega Avenue Realty, Corp 1180 Commerce Ave Bronx, NY 10462 (347) 810-9984 Contact: Chris Todino
 ENGINEER: Galli Engineering, P.C. 35 Pinelawn Road - Suite 209E Melville, NY 11747 (631) 271-9292 Contact: Richard D. Galli, P.E.

LAND INFORMATION
 Block: 3836
 Lot: 1
 Zone: M-3
 BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

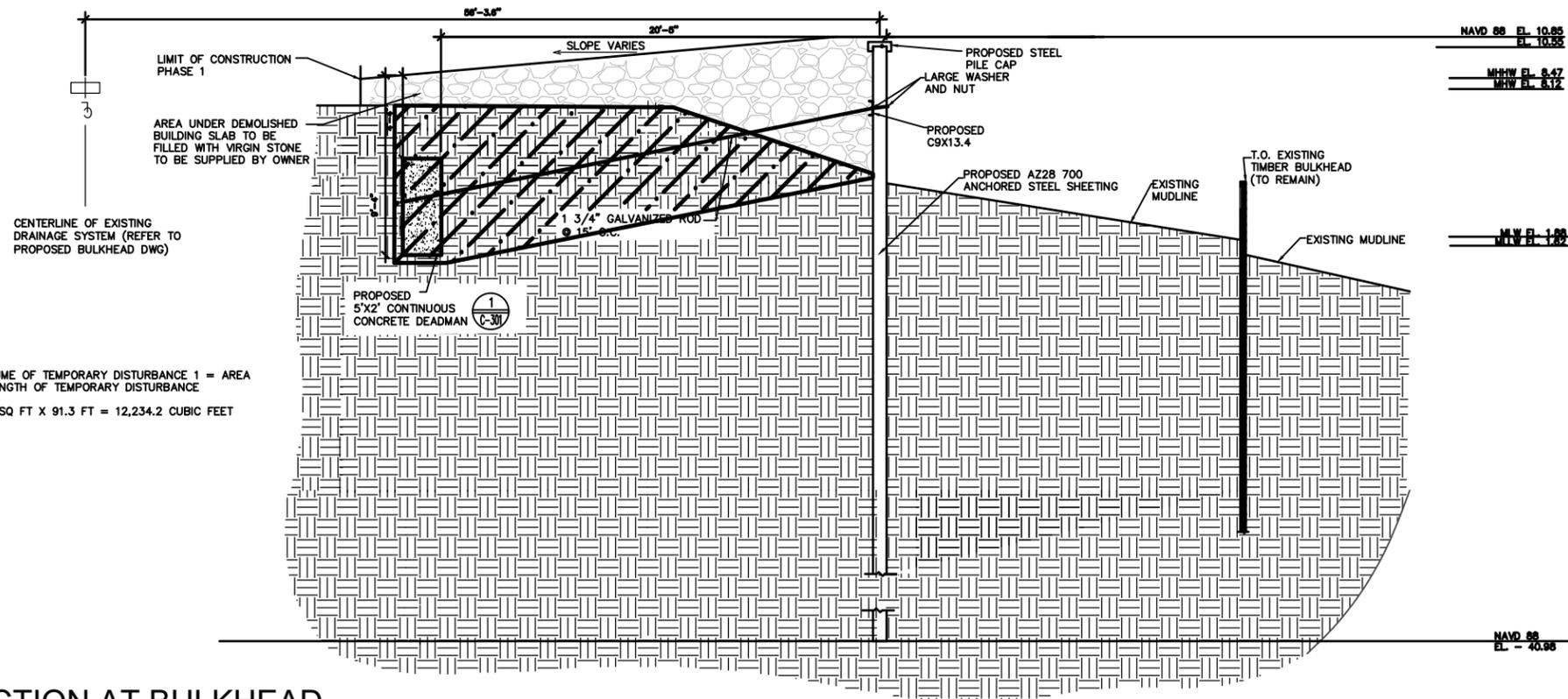
PROJECT: ZEREGA AVENUE REALTY, CORP BULKHEAD
 LOCATION: 1000 ZEREGA AVE., BRONX, N.Y.
 DRAWING TITLE: BULKHEAD SECTION AND DETAILS

Galli Engineering, P.C.
 35 Pinelawn Road, Suite 209E
 Melville, NY 11747
 Ph: 631-271-9292 Fax: 631-271-9345

PROJECT NO.	DATE	SHEET NO.
0794-02-005	03-15-18	9 OF 16

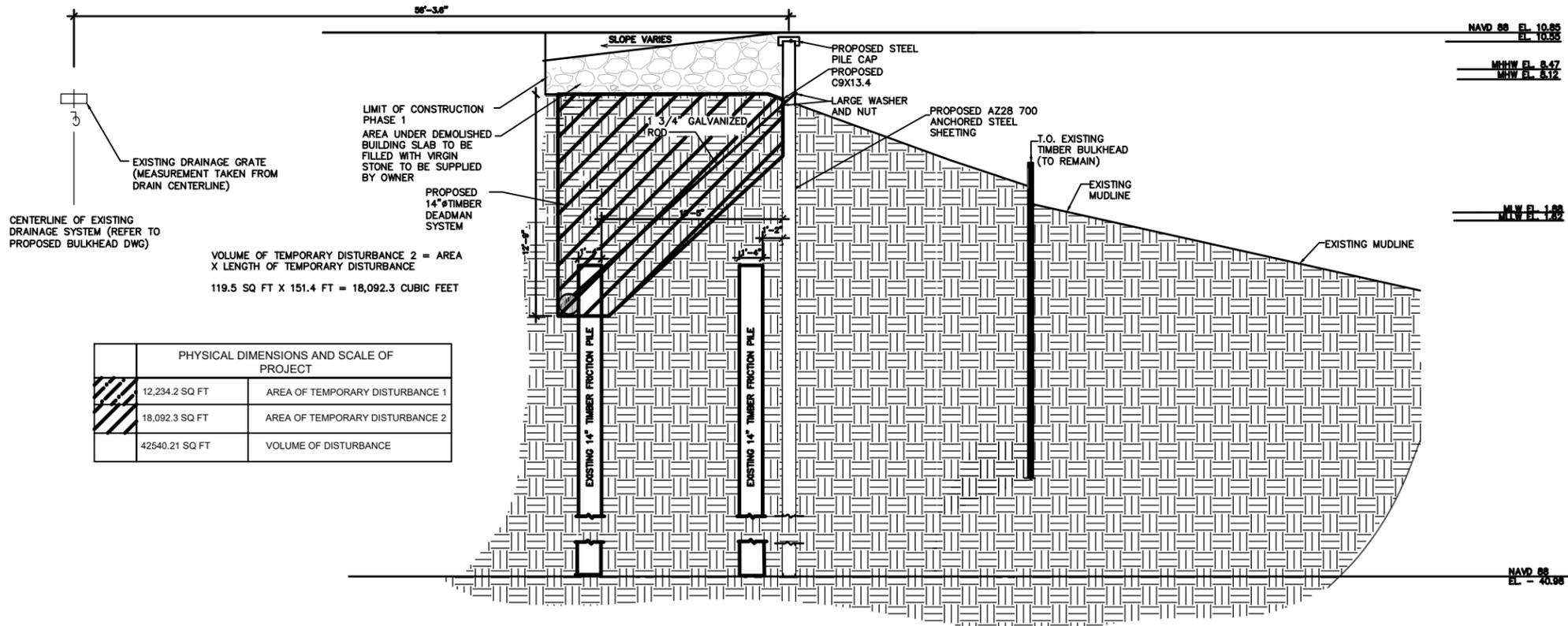
SCALE: 1/4"=1'-0"

APPLICATION NO. START DATE: 03-15-18 SHEET NO.: 9 OF 16
 DRAWING NO.: C-301.00



1 SECTION AT BULKHEAD
SCALE: NTS

VOLUME OF TEMPORARY DISTURBANCE 1 = AREA X LENGTH OF TEMPORARY DISTURBANCE
134 SQ FT X 91.3 FT = 12,234.2 CUBIC FEET

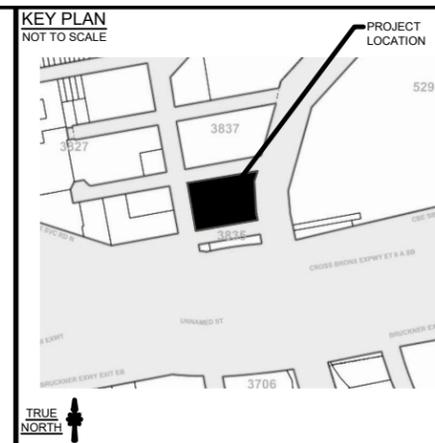


2 SECTION AT BULKHEAD
SCALE: NTS

VOLUME OF TEMPORARY DISTURBANCE 2 = AREA X LENGTH OF TEMPORARY DISTURBANCE
119.5 SQ FT X 151.4 FT = 18,092.3 CUBIC FEET

PHYSICAL DIMENSIONS AND SCALE OF PROJECT	
	12,234.2 SQ FT AREA OF TEMPORARY DISTURBANCE 1
	18,092.3 SQ FT AREA OF TEMPORARY DISTURBANCE 2
	42540.21 SQ FT VOLUME OF DISTURBANCE

NOTE: BULKHEAD AT BUILDING IS 4' SEAWARD OF PILE



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER
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1180 Commerce Ave
Bronx, NY 10462
Contact: Chris Todino

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(631) 271-9292
Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

PROJECT
ZEREGA AVENUE REALTY, CORP
BULKHEAD

LOCATION
1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE
BULKHEAD SECTIONS

Hydrographic Note:
1. Hydrographic survey performed by Rogers Surveying, PLLC 2420 Arthur Kill Road, Staten Island, N.Y. 10309 Date: 05/16/19
2. Water elevations are based on NAVD 88 by NOAA Elevation for station 8518639 Port Morris, NY

Galli Engineering, P.C.
35 Pinelawn Road, Suite 209E
Melville, NY 11747
Ph: 631-271-9292 Fax: 631-271-9345

PROJECT NO.	DATE	SHEET NO.
0794-02-005	03-15-18	10 OF 16

APPLICATION NO. _____

START DATE: 03-15-18

SHEET NO.: 10 OF 16

DRAWING NO.: _____

C-310.00

ICE® Model 44B Hydraulic Vibratory Driver/ Extractor with Model 595G Power Unit



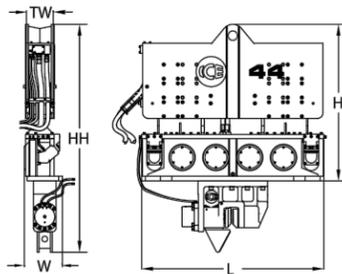
WWW.ICEUSA.COM
888-ICE-USA1

Highest frequency (1800 vpm) and driving force (207 tons, 1844 kN) in its class.
595HP (444 kW) CAT C15 Tier 3 (Stage IIIA) engine meets all EPA & EU emission regulations.
Up to 100 tons (900 kN) line pull for extraction.



ICE Model 44B Vibratory Pile Hammer			
Eccentric moment	4400 in-lbs	51 kg-m	
Maximum frequency	1800 vpm		
Driving Force	207 tons	1845 kN	
Centrifugal force	202 tons	1790 kN	
Amplitude (free w/o clamp)	1.1 in	28 mm	
Standard line pull for extracting	65 tons	600 kN	
Maximum line pull for extracting	100 tons	900 kN	
Weight (no clamp or hoses)	12450 lbs	5650 kg	
Non-vibrating Weight	4560 lbs	2070 kg	
Height without clamp (H)	84 in	2135 mm	
Length (L)	98 in	2485 mm	
Width (W)	21 in	530 mm	
Throat width (TW)	14.25 in	362 mm	
Hydraulic hose length	150 ft	45 m	
Hydraulic hose weight	1555 lbs	705 kg	
Height with sheeting clamp (HH)	122 in	3095 mm	
Weight with sheeting clamp & 1/2 hoses	15430 lbs	7000 kg	
Height with beam & caisson clamps	115 in	2915 mm	
Weight with beam, caisson clamps & 1/2 hoses	19345 lbs	8775 kg	

ICE Model 595G Power Unit			
Engine	Caterpillar C15		
EPA/EU Emissions rating	EPA Flex	EU Flex	
Power	595 HP	444 kW	
Operating speed	1800 rpm	1800 rpm	
Maximum motors pressure	5500 psi	380 bar	
Motors flow (no load)	160 gpm	610 lpm	
Clamp pressure	4500 psi	310 bar	
Clamp flow	6 gpm	20 lpm	
Weight (w/ full fluid & 1/2 fuel)	16350 lbs	7420 kg	
Length	160 in	4040 mm	
Width	73 in	1855 mm	
Height	100 in	2540 mm	
Hydraulic oil capacity	430 gal	1630 liters	
Fuel Capacity	150 gal	570 liters	

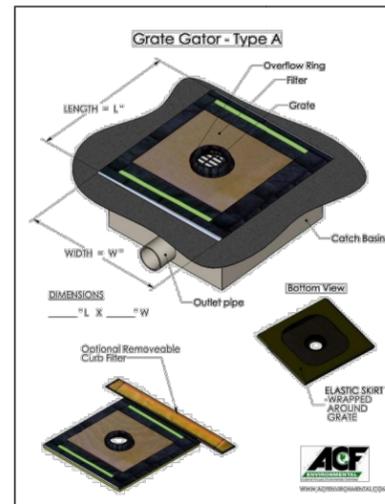


DESIGNED AND MANUFACTURED IN USA BY ICE®
WORLD LEADER IN COST-EFFECTIVE FOUNDATION EQUIPMENT SINCE 1974.

Constant improvement and engineering progress make it necessary that ICE®, Inc reserve the right to make specification changes without notice.
Please consult ICE® for the latest available information.

1 VIBRATORY HEAD SPECIFICATION

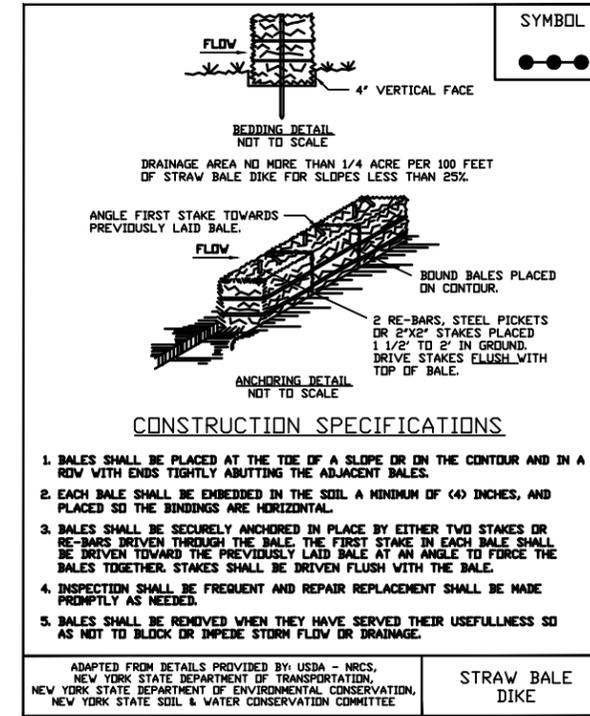
SCALE: NTS



- THE CONTRACTOR SHALL INSTALL THE GRATEGATOR FROM ACF ENVIRONMENTAL OR APPROVED EQUAL.
- TYPE A GRATEGATOR SLIDES OVER THE GRATE AND HAS A FLIP TOP FOR MAINTENANCE.

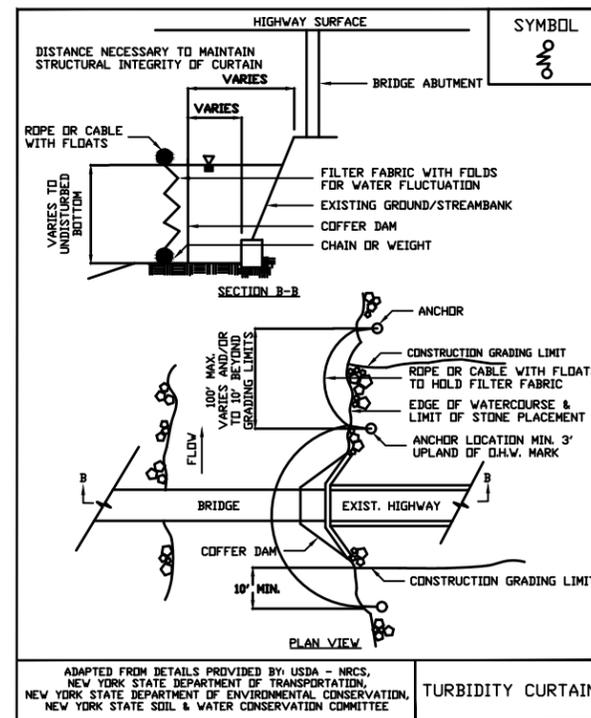
2 GRATE GATOR DETAILS

NTS



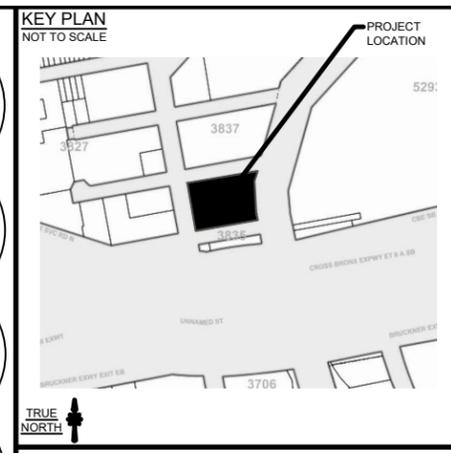
3 STAKED HAY BALE DETAILS

NTS



4 TURBIDITY CURTAIN DETAILS

NTS



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER: Zerega Avenue Realty, Corp
1180 Commerce Ave
Bronx, NY 10462
Contact: Chris Todino

ENGINEER: Galli Engineering, P.C.
35 Pinelawn Road - Suite 209E
Melville, NY 11747
(631) 271-9292
Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

PROJECT: ZEREGA AVENUE REALTY, CORP BULKHEAD

LOCATION: 1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE: VIBRATORY HEAD SPECIFICATION AND SITE DETAILS

Galli Engineering, P.C.
35 Pinelawn Road, Suite 209E
Melville, NY 11747
Ph: 631-271-9292 Fax: 631-271-9345

SCALE	PROJECT NO.	DRAWN BY	CHECKED BY
AS SHOWN	0794-02-005	SC	WHT
		RDG	

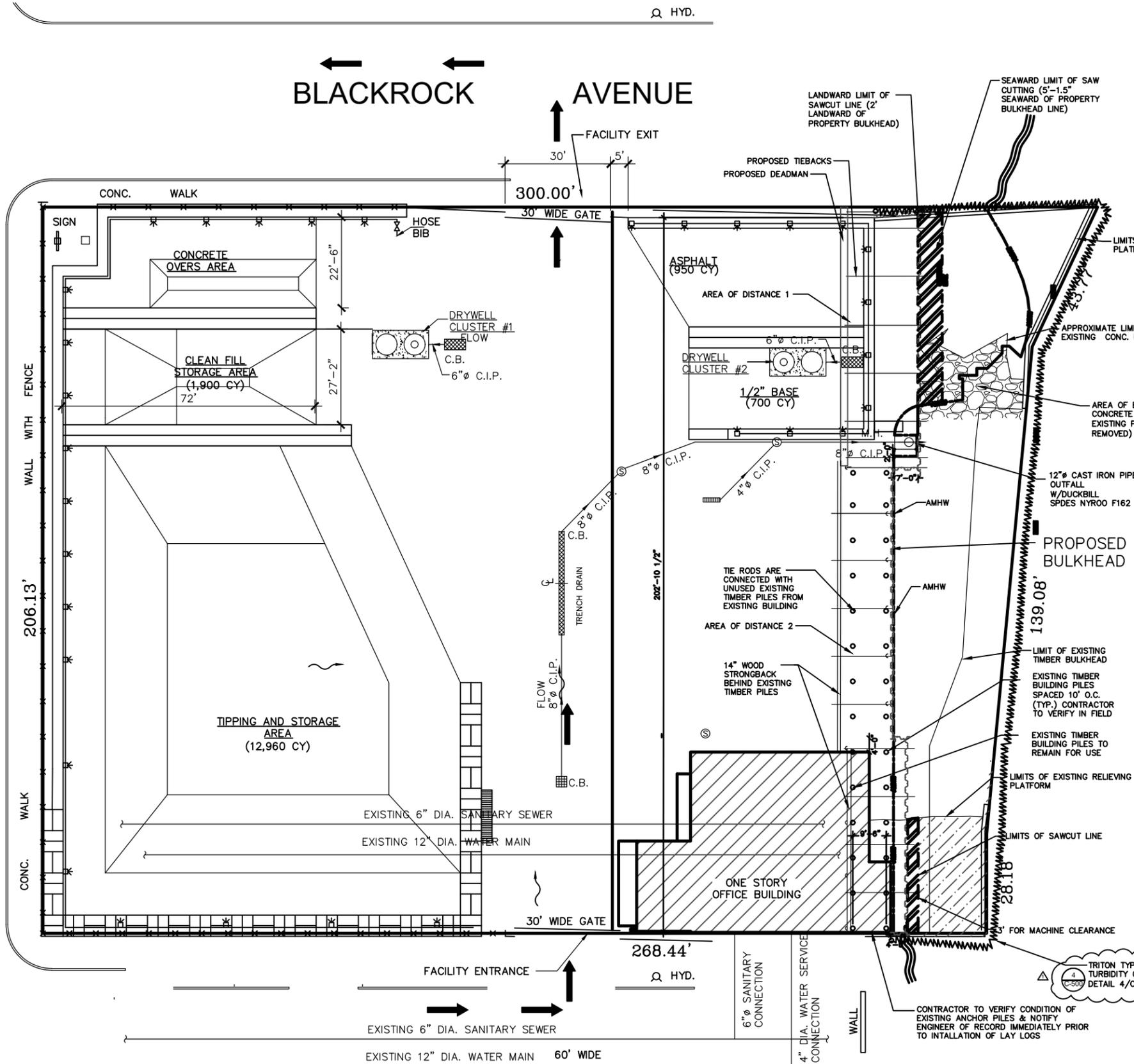
APPLICATION NO. START DATE: 03-15-18 SHEET NO. 11 OF 16
DRAWING NO. C-500.00

ZEREGA AVENUE

BLACKROCK AVENUE

WESTCHESTER CREEK

CHATTERTON AVENUE



CONSTRUCTION NOTES:
 1. SAWCUT AREAS AS SHOWN ON THE DEMOLITION PLAN
 2. EXCAVATIONS SHALL BE DEEP ENOUGH TO PERMIT SEAWATER TO BE ABLE TO REACH SHEETS AT HIGH TIDE

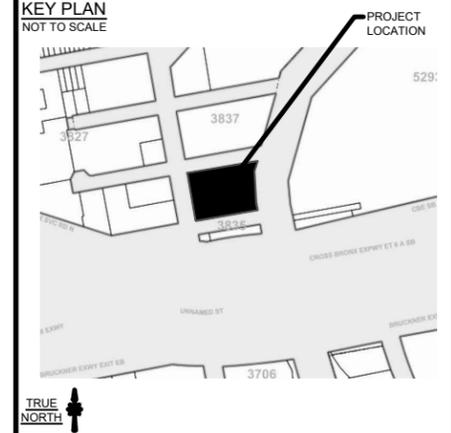
TRITON TYPE II DOT TURBIDITY CURTAIN SEE DETAIL 4/C-500.00

CONTRACTOR TO VERIFY CONDITION OF EXISTING ANCHOR PILES & NOTIFY ENGINEER OF RECORD IMMEDIATELY PRIOR TO INSTALLATION OF LAY LOGS

1 SHEET ELEVATION
 SCALE: NTS

LEGEND	DESCRIPTION	LEGEND	DESCRIPTION
	TURBIDITY CURTAIN LINE		BARGE LINE
	AREA TO BE DEMOLISHED		PROPERTY LINE
			APPARENT MEAN HIGH WATER LINE

HYDROGRAPHIC NOTE:
 1. HYDROGRAPHIC SURVEY PERFORMED BY ROGERS SURVEYING, PLLC 2420 ARTHUR KILL ROAD, STATEN ISLAND, N.Y. 10309 DATE: 05/16/19
 2. WATER ELEVATIONS ARE BASED ON NAVD 88 BY NOAA ELEVATION FOR STATION 8518639 PORT MORRIS, NY



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186
 OWNER: Zerega Avenue Realty, Corp 1180 Commerce Ave Bronx, NY 10462 (347) 810-9984 Contact: Chris Todino
 ENGINEER: Galli Engineering, P.C. 35 Pinelawn Road - Suite 209E Melville, NY 11747 (631) 271-9292 Contact: Richard D. Galli, P.E.

LAND INFORMATION
 Block: 3836
 Lot: 1
 Zone: M-3
 BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

PROJECT: ZEREGA AVENUE REALTY, CORP BULKHEAD

LOCATION: 1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE: DEMOLITION PLAN

Galli Engineering, P.C.
 35 Pinelawn Road, Suite 209E
 Melville, NY 11747
 Ph: 631-271-9292 Fax: 631-271-9345

DATE	BY	DATE	BY
0794-02-005	WHT	03-15-18	RDG

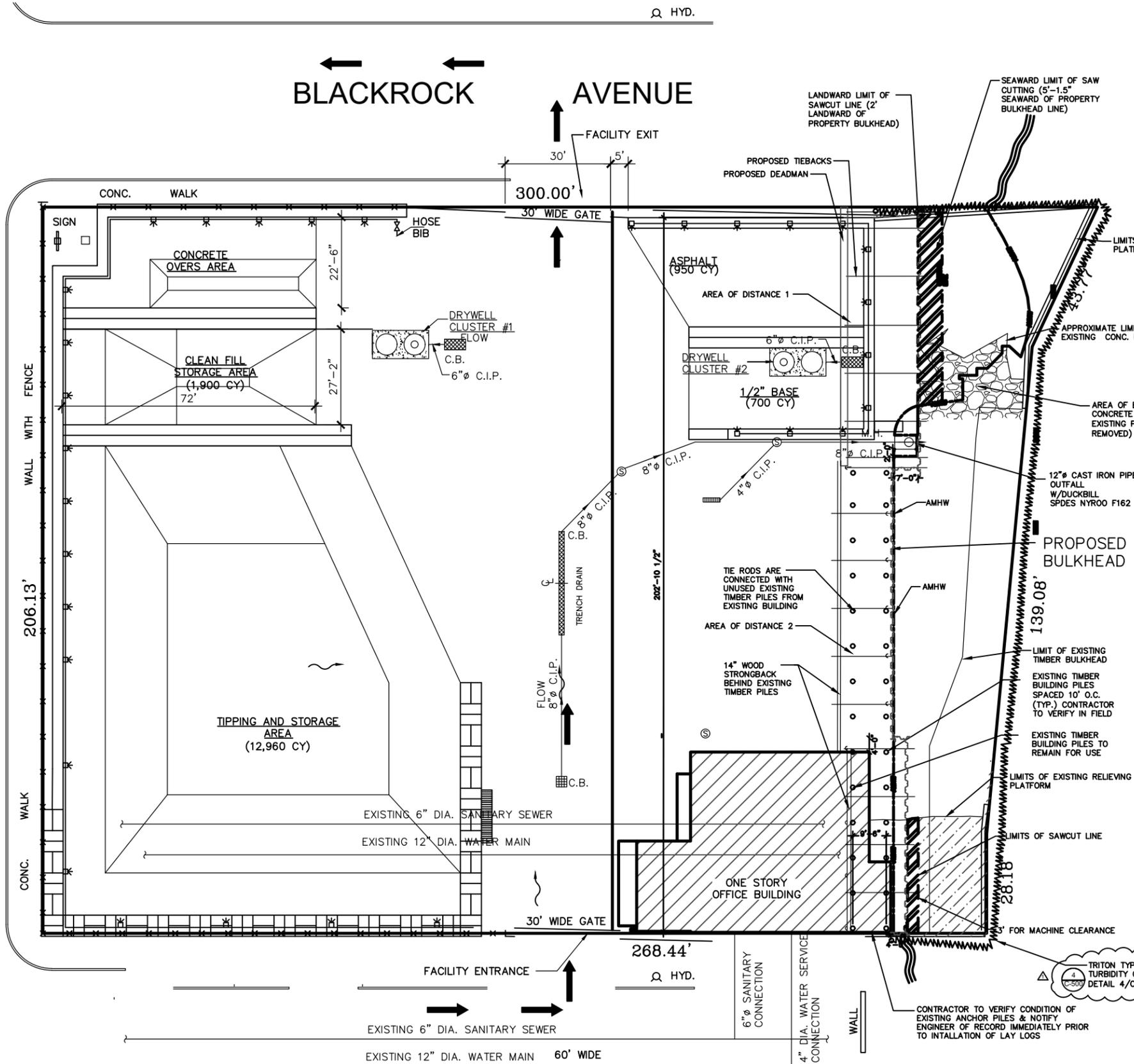
START DATE: 03-15-18 SHEET NO: 12 OF 16
 DRAWING NO: DM-100.00

ZEREGA AVENUE

BLACKROCK AVENUE

WESTCHESTER CREEK

CHATTERTON AVENUE



CONSTRUCTION NOTES:
 1. SAWCUT AREAS AS SHOWN ON THE DEMOLITION PLAN
 2. EXCAVATIONS SHALL BE DEEP ENOUGH TO PERMIT SEAWATER TO BE ABLE TO REACH SHEETS AT HIGH TIDE

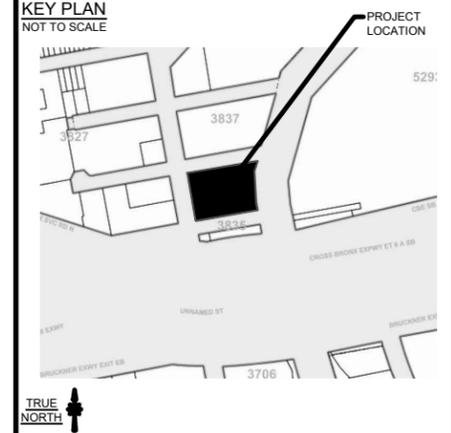
PHYSICAL DIMENSIONS AND SCALE OF PROJECT	
1055 SQ FT	AREA OF DISTANCE 1
1987 SQ FT	AREA OF DISTANCE 2
30,326.5 SQ FT	AREA OF TOTAL TEMPORARY DISTURBANCE
330.8 SQ FT	AREA OF PERMANENT DISTURBANCE
91,971.9 SQ FT	VOLUME OF DISTURBANCE

CALCULATIONS
 WIDTH OF BULKHEAD X LENGTH
 $9.1 \text{ IN} \times 2911 \text{ IN} = 26490.1 \text{ SQ IN} / 12 \text{ IN/FT} = 2207.5 \text{ SQ FT AREA OF BULKHEAD}$
 AREA OF BULKHEAD X DEPTH
 $2207.5 \text{ SQ FT} \times 3 \text{ FT} = 6622.5 \text{ CUBIC FEET OF BULKHEAD}$
 VOLUME OF TEMPORARY DISTURBANCE 1 + VOLUME OF TEMPORARY DISTURBANCE 2 = TOTAL VOLUME OF TEMPORARY DISTURBANCE
 $12,234.2 \text{ CUBIC FEET} + 18,092.3 \text{ CUBIC FEET} = 30,326.5 \text{ CUBIC FEET}$
 $30,326.5 \text{ SQ FT} \times 330.8 \text{ FT} \times 3 \text{ FT} = 91,971.9 \text{ CUBIC FEET OF DISTURBANCE}$

HYDROGRAPHIC NOTE:
 1. HYDROGRAPHIC SURVEY PERFORMED BY ROGERS SURVEYING, PLLC 2420 ARTHUR KILL ROAD, STATEN ISLAND, N.Y. 10309 DATE: 05/16/19
 2. WATER ELEVATIONS ARE BASED ON NAVD 88 BY NOAA ELEVATION FOR STATION 8518639 PORT MORRIS, NY

1 SHEET ELEVATION
 SCALE: NTS

LEGEND	DESCRIPTION	LEGEND	DESCRIPTION
	TURBIDITY CURTAIN LINE		BARGE LINE
	PROPERTY LINE		APPARENT MEAN HIGH WATER LINE



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186
OWNER
 Zerega Avenue Realty, Corp
 1180 Commerce Ave
 Bronx, NY 10462
 (347) 810-9884
 Contact: Chris Todino
ENGINEER
 Galli Engineering, P.C.
 35 Pinelawn Road - Suite 209E
 Melville, NY 11747
 (631) 271-9292
 Contact: Richard D. Galli, P.E.

LAND INFORMATION
 Block: 3836
 Lot: 1
 Zone: M-3
 BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

**ZEREGA AVENUE REALTY, CORP
 BULKHEAD**
 LOCATION
 1000 ZEREGA AVE., BRONX, N.Y.
 DRAWING TITLE
 CEQR CALCULATIONS

Galli Engineering, P.C.
 35 Pinelawn Road, Suite 209E
 Melville, NY 11747
 Ph: 631-271-9292 Fax: 631-271-9345

PROJECT NO.	DATE	SHEET NO.
0794-02-005	03-15-18	13 OF 16

APPROVED BY: SC RDG
 SEAL: [Signature Area]
 DRAWING NO.: DM-110.00

BORING LOG		BORING No. B-1		
GALLI ENGINEERING, P.C.		SURFACE ELEV 15.76		
PROJECT NAME: AllCity Bulkhead		DATUM Bronx Boro		
PROJECT LOCATION: 1000 ZEREGA AVENUE, BRONX, NY 10462		SHEET 1 OF 10		
BORING LOCATION: B-1		GALLI INSPECTOR: WHT		
DATE: 1-14-2014		TOTAL DEPTH: 52 ft		
DRILL RIG:		DRILLING COMPANY: Independent Testing		
Depth (ft)	Blow Counts or PID ppm	Sample No.	Description	Notes
0	0.00 T.O	12"	Concrete Relief Platform (RP) Drill Through RP	
0-2'	8,5,4,6	B-1	black chdr fill	19' Recovery
		S-2	mud	
		S-1	Clay / LL+ - mud small - min sand	
5			black mud	
			gray mud	
5-7'	1,3,1,R	B-1	Wood Platform	1" left to wooden dock (B--7)
		S-7	wet black mud	drill thru wood sub platform
		S-2		19' recovery - 12" bl + 9' gr with 1" wood platform
10				
10-12'	3,4,3,5	B-1	black mud with gravel	7' recovery after void
		S-12	fills sand	
		S-3	-B19"	
15				
15-17'	2,2,8,9	B-1	black mud with silt and sand	4' recovery
		S-17	3/16 - 5/16 gr	
		S-4	bounces 2" ch	
			1" ch 3/4" ch	
20				
20-22'	6,6,9,6	B-1	black sand and gravel	2' recovery
		S-22		weed?
		S-6		easy drilling
25			black sand, silt, clay	
25-27'	4,2,1,2	B-1	no gravel	7' recovery
		S-27		
		S-6		
30			clay thru sand	
30-32'	7,11,8,13	B-1	dark brown fine sand and silt	10' recovery woody / marshy
		S-32		
		S-7	harder to drill	slower drilling - hard binding - some bounce
35			sand with gravel and silt	
35-37'	10,8,14,18	B-1	black sand / mud with gravel	19' recovery
		S-37	3/16" 3/8"	hard drilling - bounce 43" from top of rp
		S-8		
40				bounce hard
40-42'	51,30,19,16	B-1	silt with gravel coarse sand	19' recovery
		S-42		slow drilling - bounce
		S-9		
45				
45-47'	30 over 2"	B-1	sandy silt thru decomposed rock	slow hard drilling
		S-42		11 1/2' recovery
		S-10		34-11" ARP (above relief platform)
50				bounce hard
50-52'		B-1	rock 50-50"	50' - rock
		S-52		
		S-11		

Down Hole Measurements:

PID =	ppm	Groundwater:	SWL to top of PVC =
COI =	LEL =	Initial Sampling SWL =	PVC to ground surface =
	O ₂ =	Sample time at:	
	H ₂ S =	CO =	Sample SWL =

NOTES:

WCH	-Height of Hole	Blow Count / Compaction	Packet No. (Chip only)	Blow Description	Blow Description (cont)
WCH	-Height of Hammer	0 - 10 - Loose	+0.5 - 0.6	F - FB	Y
BDH	-Bottom of Hole	11 - 20 - Med. Compact	0.5 - 1.0 - Medium	O - Organic Deposits	T
NS	-No Split Spoon Sample	21 - 30 - Compact	1.0 - 1.5 - Stiff	S - Preconsolidated Sand	D
S _u	-Split Spoon Sample	> 30 - V. Compact	> 1.5 - Hard	M - Preconsolidated Silty	R
U _u	-Unsplit Spoon Sample	80F - Refusal	C - Preconsolidated Clay		

BORING LOG		BORING No. B-2		
GALLI ENGINEERING, P.C.		SURFACE ELEV 15.76		
PROJECT NAME: AllCity Bulkhead		DATUM Bronx Boro		
PROJECT LOCATION: 1000 ZEREGA AVENUE, BRONX, NY 10462		SHEET 2 OF 10		
BORING LOCATION: B-2		GALLI INSPECTOR: WHT		
DATE: 1-14-2014		TOTAL DEPTH: 47 ft		
DRILL RIG:		DRILLING COMPANY: Independent Testing		
Depth (ft)	Blow Counts or PID ppm	Sample No.	Description	Notes
0	0	12"	12" concrete relief platform (RP)	
0-2'	5,3,3,3	B-2	dry sand with gravel	12' recovery
		S-2		
		S-1	to damp sand gravel	
5				
5-7'	4,3,3,1	B-2	black mud with gravel and cinder	wet wooden platform
		S-7		6' recovery
		S-2	some wood	
10				
10-12'	3,4,3,5	B-1	black mud with gravel and cinder	1' recovery
		S-12		
		S-3		
15				
15-17'	3,3,2,2	B-2	mud with brown sand with gravel	19' recovery
		S-17	gray brgs	
		S-4		
20				
20-22'	4,3,1,1	B-2	course black sand gravel	12' recovery
		S-22	dark gray clay last 2" no gravel	
		S-6		easy drilling
25				
25-27'	1,1,1,1	B-2	dark gray clay no gravel	11' recovery
		S-27		
		S-6		start bounce - slow drilling
30				
35-37'	23,8,13,12	B-2	gray sand with gravel	17' recovery
		S-37	3/8-3/4" bottom 10"	
		S-8		bounce - slow drilling
40				
40-42'	80 for 3"	B-2	dark gray large grain sand + gravel	19' recovery
		S-42	brown sand with gravel with decomposed rock	bounce thru jam, bedrock - blow, shear pin.
		S-9		
45				
45-47'	30 over 2"	B-2	sandy silt thru	slow hard drilling
		S-42		11 1/2' recovery
		S-9		34-19" 48 Rock (from top of RP)

Down Hole Measurements:

PID =	ppm	Groundwater:	SWL to top of PVC =
COI =	LEL =	Initial Sampling SWL =	PVC to ground surface =
	O ₂ =	Sample time at:	
	H ₂ S =	CO =	Sample SWL =

NOTES:

WCH	-Height of Hole	Blow Count / Compaction	Packet No. (Chip only)	Blow Description	Blow Description (cont)
WCH	-Height of Hammer	0 - 10 - Loose	+0.5 - 0.6	F - FB	Y
BDH	-Bottom of Hole	11 - 20 - Med. Compact	0.5 - 1.0 - Medium	O - Organic Deposits	T
NS	-No Split Spoon Sample	21 - 30 - Compact	1.0 - 1.5 - Stiff	S - Preconsolidated Sand	D
S _u	-Split Spoon Sample	> 30 - V. Compact	> 1.5 - Hard	M - Preconsolidated Silty	R
U _u	-Unsplit Spoon Sample	80F - Refusal	C - Preconsolidated Clay		

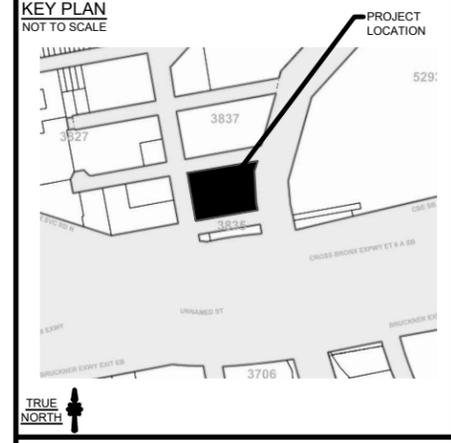
BORING LOG		BORING No. B-3		
GALLI ENGINEERING, P.C.		SURFACE ELEV 15.76		
PROJECT NAME: AllCity Bulkhead		DATUM Bronx Boro		
PROJECT LOCATION: 1000 ZEREGA AVENUE, BRONX, NY 10462		SHEET 3 OF 10		
BORING LOCATION: B-3		GALLI INSPECTOR: WHT		
DATE: 1-14-2014		TOTAL DEPTH: 24 ft		
DRILL RIG:		DRILLING COMPANY: Independent Testing		
Depth (ft)	Blow Counts or PID ppm	Sample No.	Description	Notes
0			borishole in water middle area	
0-2'	1,1,1,1	B-3	dark brown mud with gravel	2' Recovery
		S-2		
		S-1		
2				
2-4'	1,2,4,3	B-3	dark brown mud with gravel and sand	4 1/2' Recovery
		S-4		
4				
4-6'	3,2,4,7	B-3	dark brown mud, gravel, sand and rocks	8' Recovery
		S-4		
6				
6-8'	1,1,1,1	B-3	dark brown mud, gravel, sand, Petroleum smell	8' Recovery
		S-8		
8				
8-10'	1,3,7,2	B-3	dark brown mud, silt, sand, and some clay	9 1/2' Recovery
		S-10		
10				
10-12'	7,11,2,5	B-3	dark gray clay with some rocks	19' Recovery
		S-12		
		S-6		
12				
12-14'	7,11,4,3	B-3	dark gray sand and gravel	8' Recovery
		S-14		
14				
14-16'	3,1,1,1	B-3	dark brown sand and gravel	3' Recovery
		S-16		
		S-8		
16				
16-18'	7,8,11,15	B-3	dark gray clay end gravel	18' Recovery
		S-18		
		S-9		strong petroleum smell
18				
18-20'	13,9,17,11	B-3	gray clay	28' Recovery
		S-20		
		S-10		
20				
20-22'	80 refusal 4"	B-3	gray clay	18' Recovery
		S-22		
		S-11		
22				
22-24'	63,72,80 R	B-3	gray green hard clay	13 1/2' Recovery
		S-24		
		S-5		
		S-12		

Down Hole Measurements:

PID =	ppm	Groundwater:	SWL to top of PVC =
COI =	LEL =	Initial Sampling SWL =	PVC to ground surface =
	O ₂ =	Sample time at:	
	H ₂ S =	CO =	Sample SWL =

NOTES:

WCH	-Height of Hole	Blow Count / Compaction	Packet No. (Chip only)	Blow Description	Blow Description (cont)
WCH	-Height of Hammer	0 - 10 - Loose	+0.5 - 0.6	F - FB	Y
BDH	-Bottom of Hole	11 - 20 - Med. Compact	0.5 - 1.0 - Medium	O - Organic Deposits	T
NS	-No Split Spoon Sample	21 - 30 - Compact	1.0 - 1.5 - Stiff	S - Preconsolidated Sand	D
S _u	-Split Spoon Sample	> 30 - V. Compact	> 1.5 - Hard	M - Preconsolidated Silty	R
U _u	-Unsplit Spoon Sample	80F - Refusal	C - Preconsolidated Clay		



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER: Zerega Avenue Realty, Corp
1180 Commerce Ave
Bronx, NY 10462
Contact: Chris Todino

ENGINEER: Galli Engineering, P.C.
35 Pinelawn Road - Suite 209E
Melville, NY 11747
(631) 271-9292
Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

PROJECT: ZEREGA AVENUE REALTY, CORP BULKHEAD

LOCATION: 1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE: BORING LOGS

Galli Engineering, P.C.
35 Pinelawn Road, Suite 209E
Melville, NY 11747
Ph: 631-271-9292 Fax: 631-271-9345

PROJECT NO.	DATE	ENGINEER
0794-02-005	03-15-18	WHT

DRAWN BY	APPROVED
SC	RDG

APPLICATION NO.	START DATE	SHEET NO.
	03-15-18	15 OF 16

DRAWING NO.: B-500.00

1 BORING LOGS

NTS

BORING LOG		GALLI ENGINEERING, P.C.		
PROJECT NAME: AICity Bulkhead		PROJECT LOCATION: 1000 ZEREGA AVENUE, BRONX, NY 10462		
BORING LOCATION: B-4		GALLI INSPECTOR: WHT		
DRILL RIG:		DATE: 1-14-2014		
TOTAL DEPTH: 24 R		DRILLING COMPANY: Independent Testing		
Depth (ft)	Blow Counts or PID ppm	Sample No.	Description	Notes
0			borehole in water middle area	15.76-12.00 = 3.76 In water 12" down from TD deck
0-2'	1,3,1,2	B-4	dark brown mud with gravel and sand	2' Recovery
2		B-1		
2-4'	8,7,11,4	B-4	dark brown mud with gravel sand, rocks	9 1/2" Recovery
4		B-2		
4-6'	13,8,7,14	B-4	dark brown black mud, gravel, and some clay	12" Recovery
6		B-3		
6-8'	1,1,1,1	B-4	dark brown/black wet mud with gravel, sand.	19" Recovery
8		B-4		
8-10'	7,7,1,1	B-4	dark gray/black mud with clay, sand.	3" Recovery
10		B-5		
10-12'	4,3,1,1	B-4	dark grey wet mud with gravel, sand.	10" Recovery
12		B-6		
12-14'	5,6,1,1	B-4	dark grey sand and gravel	3" Recovery
14		B-7		
14-16'	4,1,1,1	B-4	dark grey mud, sand, rock, and gravel	4" Recovery
16		B-8		
16-18'	1,1,1,1	B-4	dark grey black mud with sand and gravel	20" Recovery
18		B-9		
18-20'	80 refusal	B-4	dark brown mud with sand and gravel	6" Recovery
20		B-10		
20-22'	80 R	B-4	dark grey sand, gravel, and wood bark	4 1/2" Recovery
22		B-11		went down 20" 3"
22-24'			End of borehole	

Down Hole Measurements:		Groundwater:	SWL to top of PVC =
PID =	ppm	Initial Sampling SWL =	PVC to ground surface =
CGI =	LEL =	Sample time at:	
	H2S =	Sample SWL =	

WCH	Weight of Hole	Blow Count Conversion	Point Pen. Class. and	Strata Description	Strata Description (cont.)
WCH	Weight of Hammer	5-15 - Loose	+10 - Soft	F - FS	Y
BH	Bottom of Hole	11-19 - Med. Compact	55-115 - Medium	O - Organic Deposits	T
NS	No Split Spoon Sample	20-30 - Compact	110-145 - Stiff	S - Predominantly Sand	D
S	Split Spoon Sample	+10 - V. Compact	+40 - Hard	M - Predominately Sil	R
U	Undisturbed Sample	300+ - Refusal		C - Predominately Clay	

1 BORING LOGS

NTS

BORING LOG		GALLI ENGINEERING, P.C.		
PROJECT NAME: AICity Bulkhead		PROJECT LOCATION: 1000 ZEREGA AVENUE, BRONX, NY 10462		
BORING LOCATION: B-5		GALLI INSPECTOR: WHT		
DRILL RIG:		DATE: 1-14-2014		
TOTAL DEPTH: 30 R		DRILLING COMPANY: Independent Testing		
Depth (ft)	Blow Counts or PID ppm	Sample No.	Description	Notes
0			borehole in water (southeast side)	15.36-11.41=3.95
0-2'	7,4,3,2	B-4	dark gray black mud with sand and gravel	9" Recovery
2		B-2		
2-4'	1,1,7,8	B-4	dark gray black wet mud with sand and gravel	7" Recovery
4		B-2		
4-6'	1,1,2,3	B-4	dark gray black wet mud with sand and gravel	9" Recovery
6		B-3		
6-8'	7,8,13,11	B-4	dark gray black wet mud with sand and gravel	9" Recovery
8		B-4		
8-10'	7,8,11,13	B-4	dark grey clay, rock	12" Recovery
10		B-5		
10-12'	1,1,1,1	B-4	dark grey wet mud with rock and gravel	9" Recovery
12		B-6		
12-14'	3,4,7,13	B-4	dark grey clay, slight moist	30" Recovery, fill spoon
14		B-7		
14-16'	1,1,5,2	B-4	dark grey black wet mud with sand and gravel	9" Recovery
16		B-8		
16-18'	5,3,8,26	B-4	dark grey sand, clay and gravel	10" Recovery
18		B-9	strong petroleum smell	
18-20'	5,4,11,17	B-4	dark grey clay, slight moist	12" Recovery
20		B-10		
20-22'	5,1,1,2	B-4	dark brown with sand and gravel	4" Recovery
22		B-11		
22-24'	20,22,20,21	B-4	dark grey clay	17" Recovery
24		B-12		
24-26'	11,21,17,23	B-4	dark grey, soft clay with silt	28" Recovery
26		B-13		
26-28'	10,15,43,80R (3 1/2")	B-4	dark grey, some silt, sand, and clay, maybe decomposed rock	12" Recovery
28		B-14		
28-30'	40,80R (2 1/2")	B-4	dark grey, sand, silt, sand, rocks and decomposed rocks	18" Recovery
end of boring		B-15		

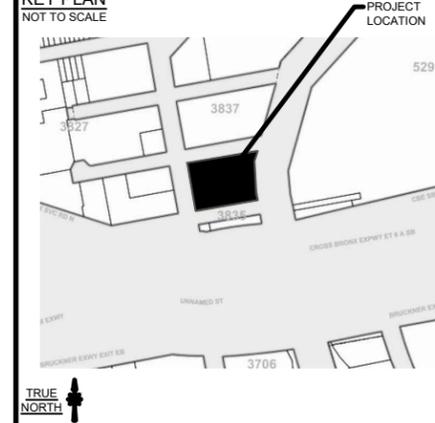
Down Hole Measurements:		Groundwater:	SWL to top of PVC =
PID =	ppm	Initial Sampling SWL =	PVC to ground surface =
CGI =	LEL =	Sample time at:	
	H2S =	Sample SWL =	

WCH	Weight of Hole	Blow Count Conversion	Point Pen. Class. and	Strata Description	Strata Description (cont.)
WCH	Weight of Hammer	5-15 - Loose	+10 - Soft	F - FS	Y
BH	Bottom of Hole	11-19 - Med. Compact	55-115 - Medium	O - Organic Deposits	T
NS	No Split Spoon Sample	20-30 - Compact	110-145 - Stiff	S - Predominately Sand	D
S	Split Spoon Sample	+10 - V. Compact	+40 - Hard	M - Predominately Sil	R
U	Undisturbed Sample	300+ - Refusal		C - Predominately Clay	

BORING LOG		GALLI ENGINEERING, P.C.		
PROJECT NAME: AICity Bulkhead		PROJECT LOCATION: 1000 ZEREGA AVENUE, BRONX, NY 10462		
BORING LOCATION: B-6		GALLI INSPECTOR: WHT		
DRILL RIG:		DATE: 1-14-2014		
TOTAL DEPTH: 32 R		DRILLING COMPANY: Independent Testing		
Depth (ft)	Blow Counts or PID ppm	Sample No.	Description	Notes
0			bottom 0.00' from top of concrete field platform	
0-2'	5,3,3,4	B-6	black mud 2' 35 gravel with silt	9 1/2" Recovery
2		B-1		
2-4'	2,2,2,2	B-6	black mud, silt, color gravel	6" Recovery
4		B-2		
4-6'	12,4,4,8	B-6	dark grey mud and clay with 2-3 pieces of gravel	16" Recovery
6		B-3		fill wood, with casing bounce
6-8'	3,2,3,3	B-6	dark grey clay	9" Recovery
8		B-4		
8-10'	3,3,3,2	B-6	dark grey clay to mud	20" Recovery
10		B-5		
10-12'	5,3,3,2	B-6	mud gravel clay with pieces of shell, wood and tile?	16" Recovery
12		B-6		
12-14'	4,2,2,2	B-6	silt mud gravel clay with shells	19" Recovery
14		B-7		
14-16'	3,4,4,4	B-6	9" med grey clay, 6" mix with gravel, then 1 1/2" sand	15 1/2" Recovery
16		B-8		
16-18'	2,2,2,5	B-6	10" grey clay with small gravel then sandy clay	24" Recovery
18		B-9		
18-20'	4,8,13,14	B-6	6" fine sand and clay, 8" med grey sand silt clay	17" Recovery
20		B-10		
20-22'	8,13,40,53	B-6	8" med grey sand	22" Recovery
22		B-11		
22-24'	9,13,58,80	B-6	8" dark clay with gravel	24" Recovery
24		B-12		
24-26'	13,8,11,48	B-6	8" med mud and clay with gravel	23" Recovery
26		B-13		
26-28'	65,86,100	B-6	dark grey mud, brown sand	12" Recovery
28		B-14		
28-30'	35,100R	B-6	mud with gravel, brown sand and gravel	12" Recovery
30		B-15		
30-32'	28,90,100R	B-6	dense med brown sand, 38" to 1/2 gravel	12" Recovery
end of boring		B-16		

Down Hole Measurements:		Groundwater:	SWL to top of PVC =
PID =	ppm	Initial Sampling SWL =	PVC to ground surface =
CGI =	LEL =	Sample time at:	
	H2S =	Sample SWL =	

WCH	Weight of Hole	Blow Count Conversion	Point Pen. Class. and	Strata Description	Strata Description (cont.)
WCH	Weight of Hammer	5-15 - Loose	+10 - Soft	F - FS	Y
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U	Undisturbed Sample	300+ - Refusal		C - Predominately Clay	



ZONE: M-3 BLOCK: 3836 LOT: 1 BIN #: 2027186

OWNER
ZEREGA AVENUE REALTY, CORP BULKHEAD

ENGINEER
Galli Engineering, P.C.
35 Pinelawn Road - Suite 209E
Melville, NY 11747
(631) 271-9292
Contact: Richard D. Galli, P.E.

LAND INFORMATION
Block: 3836
Lot: 1
Zone: M-3
BIN: 2027186

REV.	DATE	DESCRIPTION	BY
09-08-20		REV PER NYSDEC COMMENTS 10-1-19	SS
07-01-19		SUBMITTED TO NYSDEC FOR FILING	SC

PROJECT
ZEREGA AVENUE REALTY, CORP BULKHEAD

LOCATION
1000 ZEREGA AVE., BRONX, N.Y.

DRAWING TITLE
BORING LOGS

Galli Engineering, P.C.
35 Pinelawn Road, Suite 209E
Melville, NY 11747
Ph: 631-271-9292 Fax: 631-271-9345

PROJECT NO.	DRAWN BY	CHECKED
0794-02-005	SC	WHT
	RDG	

APPLICATION NO.	START DATE	SHEET NO.
	03-15-18	16 OF 16

B-501.00