

## TOWN OF YORKTOWN PLANNING BOARD

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Albert. A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone: (914) 962-6565, Fax: (914) 962-3986

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### PUBLIC MEETING AGENDA VIDEO CONFERENCE

June 14, 2021

7:00 PM

This meeting will be broadcast Live on the Town's YGTV stations, Optimum channel 20 and FiOS channel 33, and on the Town's website at [yorktownny.org/ygtv/live](http://yorktownny.org/ygtv/live).

To participate in the video conference, please register in advance:

[https://us02web.zoom.us/meeting/register/tZYkc-mgqjwjHnK0vAt03oKgc\\_kciCyNwaPd](https://us02web.zoom.us/meeting/register/tZYkc-mgqjwjHnK0vAt03oKgc_kciCyNwaPd)

1. Correspondence
2. Meeting Minutes – May 24, 2021

### REGULAR SESSION

3. **Stahmer Subdivision**  
**Decision SWPPP-Tree Permit**  
Location: 59.10-1-10; 600 Birdsell Drive  
Contact: Insite Engineering  
Description: Revised SWPPP-Tree Permit to only include proposed work for subdivision Lot 1.
4. **Wells Fargo Bank**  
**Decision Lighting Plan**  
Location: 16.09-2-14; 1342 East Main Street, Shrub Oak  
Contact: Natalia Sell, Bureau Veritas  
Description: Proposed lighting upgrades for existing sites.
5. **Nantucket Sound, LLC**  
**Decision Site Plan**  
Location: 37.18-2-86; 385 Kear Street  
Contact: Site Design Consultants  
Description: Proposed three-story, 8,100 sf building consisting of 2,500 square foot retail use on the first floor and two upper floors of 2,800 square foot, and 3 apartments each on 0.36 acres in the C-2R zone.
6. **McDonalds Restaurant**  
**Public Hearing Amended Site Plan**  
Location: 36.05-1-10; 3481 Crompond Road  
Contact: Keith Brown, Esq.  
Description: Applicant proposes to amend the recently approved site plan to include a 886 square foot addition for storage space.

### WORK SESSION

7. **Town Board Referral**  
**Lajqi Stormwater Permit**  
Location: 47.16-1-29; 1039 Underhill Avenue  
Contact: Site Design Consultants  
Description: Proposed renovation of existing residence with associated grading, reconstruction of the driveway, and construction of a rain garden for stormwater management.

**8. Nadine's Restaurant**

**Discussion Special Use Permit for Outdoor Seating**

*Location:* 59.14-1-23 & 24; 715 Saw Mill River Road

*Contact:* Cronin Engineering

*Description:* Applicant request to make permanent the 70 seat outdoor seating area created in response to the pandemic.

**9. 650 Pines Bridge Road**

**Discussion Subdivision**

*Location:* 70.10-1-29; 650 Pines Bridge Road

*Contact:* Alex Cochran

*Description:* Proposed 3-lot subdivision on 8.06 acres in the R1-80 zone with one existing residence.

**10. Kitchawan Farm Solar Farm**

**Discussion Site Plan & Special Use Permit**

*Location:* 70.06-1-2 & 3; 716 Kitchawan Road

*Contact:* Ecofy Kitchawan Community Solar Farm, LLC

*Description:* Proposed 2 MW ground mounted large-scale solar energy system.

**11. Arcadia Farm Solar Farm**

**Discussion Site Plan & Special Use Permit**

*Location:* 47.11-1-4; 1300 Baptist Church Road

*Contact:* Croton Energy Group

*Description:* Proposed 800 kW ground mounted large-scale solar energy system.

**12. Large-Scale Solar Power Generation System at Shrub Oak Plaza**

**Discussion Special Permit**

*Location:* 16.09-2-13, 1426 East Main Street, Shrub Oak

*Contact:* Ecofy New York

*Description:* Proposed installation of a 2 MW Large-Scale Roof-mounted and Ground-mounted solar energy system at the existing Shrub Oak Plaza. Ground-mounted solar energy system will be three separate accessory canopy structures over existing parking.

**Last Revised – June 11, 2021**



# Correspondence

1401 Front Street Associates, LLC  
BREWSTER BUSINESS PARK  
1944 Rt 22, Brewster, NY 10509  
845 279-6111 fax 845 179-7410

RECEIVED  
PLANNING DEPARTMENT

JUN 3 2021

TOWN OF YORKTOWN

June 3, 2021

Town of Yorktown  
Engineering Department  
363 Underhill Ave. P.O. Box 703  
Yorktown Heights, NY 10598

Re: Performance Bond \$48,847.00  
Erosion Control \$5,000.00 check #050512 copy attached

Gentlemen:

We are requesting the return of our Performance Bond and a return of the \$5,000.00 that was put up for the Erosion Control due to the project not moving forward and the project was abandoned.

Sincerely,

1401 FRONT STREET ASSOCIATES, LLC



Lorraine D Xavier  
Representative

## Robyn Steinberg

---

**From:** John Tegeder  
**Sent:** Saturday, June 12, 2021 10:33 AM  
**To:** Richard Falcone; Joseph Riina [jriina@sitedesignconsultants.com]; Dan Ciarcia; Rob Garrigan; Matthew Slater; Robyn Steinberg  
**Subject:** Re: 3511 & 3515 buckhorn st final CO

Rich,

We inspected both sites on June 12, 2021. We found that the conservation easement established by the subdivision approval has been encroached into and disturbed, cleared, graded, and seeded. The easement area was required to be left in its natural state, and marked with appropriate monuments. The encroachment has occurred for approximately 20-35 feet. The area will need to be restored.

Therefore, we request that the certificate of occupancy for both sites not be issued, until a plan for remediation is offered, accepted and executed.

Please contact us if you have any questions.

John Tegeder  
Yorktown Planning Department

Sent from my iPhone

On Jun 9, 2021, at 10:56 AM, John Tegeder <jtegeder@yorktownny.org> wrote:

Thanks rich I'll let you know by tomorrow

Sent from my iPhone

On Jun 9, 2021, at 10:48 AM, Richard Falcone <rfalcone@yorktownny.org> wrote:

Ok john sounds good please let me know if there are any issues on your end.Thanks

Regards,  
Richard Falcone  
Assistant Building Inspector  
Building Department  
Town of Yorktown  
914-962-5722 Ext. 233

---

**From:** John Tegeder <jtegeder@yorktownny.org>  
**Sent:** Wednesday, June 09, 2021 9:27 AM  
**To:** Richard Falcone <rfalcone@yorktownny.org>; David Paganelli <dpaganelli@yorktownny.org>; Kenny Rundle <krundle@yorktownny.org>; Dan Ciarcia <dciarcia@yorktownny.org>  
**Subject:** RE: 3511 & 3515 buckhorn st final CO

Rich,

Thanks. We would like to take a look at the subdivision prior to that.

John A. Tegeder, R.A.  
Director of Planning  
*Town of Yorktown, N.Y.*  
*1974 Commerce Street*  
*Yorktown Heights, N.Y. 10598*  
Tel. (914)962-6565 x 326  
Fax (914)962-3986  
[www.yorktownny.org](http://www.yorktownny.org)  
[jtegeder@yorktownny.org](mailto:jtegeder@yorktownny.org)

---

**From:** Richard Falcone

**Sent:** Wednesday, June 09, 2021 9:24 AM

**To:** John Tegeder <[jtegeder@yorktownny.org](mailto:jtegeder@yorktownny.org)>; David Paganelli <[dpaganelli@yorktownny.org](mailto:dpaganelli@yorktownny.org)>; Kenny Rundle <[krundle@yorktownny.org](mailto:krundle@yorktownny.org)>; Dan Ciarcia <[dciarcia@yorktownny.org](mailto:dciarcia@yorktownny.org)>

**Subject:** 3511 & 3515 buckhorn st final CO

Good day gentle man I am in the process of issuing the CO for 3511 & 3515 Buckhorn street if anyone has any objections to this matter please let me know thanks for your help and have a great day

Regards,  
Richard Falcone  
Assistant Building Inspector  
Building Department  
Town of Yorktown  
914-962-5722 Ext. 233



PROPERTY  
CORNER





Lot 8













Lot 8.1







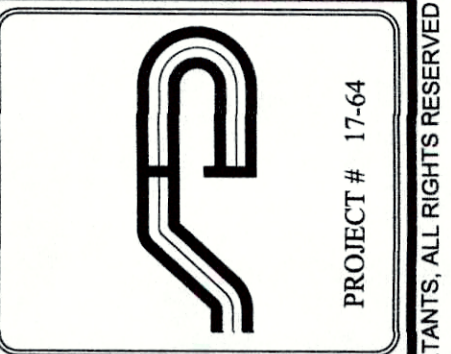








APPROVED  
 Resolution Number 18-15  
 Date Sep. 17, 2018  
 Reapproved # 19-23, Aug 12, 2019



**Site Design Consultants**  
 Civil Engineers • Land Planners  
 251-F Underhill Avenue, Yorktown Heights, NY 10598  
 (914) 962-4488 - Fax: (914) 962-7386  
 www.sitedesignconsultants.com



NO.	DATE	COMMENTS
1.	3/14/18	Plan Update
2.	4/12/18	Res. Area Update
3.	5/29/18	ABACA
4.	4/05/19	H/D Comments

SCALE: 1"=20'  
 DRAWN BY: MD  
 DATE: 12-6-17

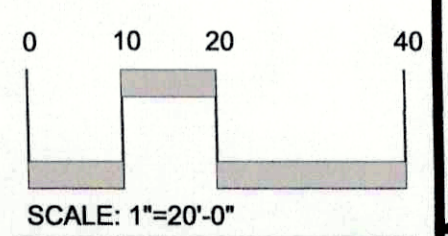
## EROSION & SEDIMENT CONTROL PLAN

PROPOSED SUBDIVISION PREPARED FOR  
**PRESTIGE RENOVATIONS AND REMODELING**  
 3511 BUCKHORN STREET  
 Westchester County, NY  
 Town of Yorktown

Sheet 4 of 7

### LEGEND

- 222 --- EXISTING GRADING
- x 222.8 EXISTING SPOT GRADE
- 200 — PROPOSED GRADING
- — — PROPERTY LINE / RIGHT OF WAY
- — — PROPOSED DRIVEWAY CENTERLINE
- — — PROPOSED CURB
- — — EDGE OF WETLAND
- — — 100' WETLAND BUFFER
- — — EXISTING STONE WALL
- W — EXISTING WATER LINE
- S — EXISTING FIRE HYDRANT
- S — EXISTING SANITARY LINE
- — — EXISTING DRAINAGE INLET
- WS — PROPOSED WATER SERVICE CONNECTION
- SS — PROPOSED SEWER SERVICE CONNECTION
- FD — PROPOSED FOOTING DRAIN
- RD — PROPOSED ROOF DRAIN
- UE — PROPOSED UNDERGROUND ELECTRIC SERVICE
- SS ○ PROPOSED SOIL STOCKPILES
- — — PROPOSED SILT FENCE
- — — PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- — — EXISTING TREE TO BE PROTECTED
- — — EXISTING TREE TO BE REMOVED



SCALE: 1"=20'-0"  
**SAFE DIG**  
 Before You Dig, Drill or Blast!  
 CALL US TODAY! 800-451-4511 or 405-942-7362  
 www.digsaferest.com

**NOTE:**  
 THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY BADEY & WATSON ENGINEERING & SURVEYING, DATED 11/30/17. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

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## TOWN OF YORKTOWN CONSERVATION BOARD

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Town of Yorktown Town Hall, 363 Underhill Avenue, Yorktown Heights, New York 10598, Phone (914) 962-5722

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### MEMORANDUM

RECEIVED  
PLANNING DEPARTMENT

JUN 3 2021

TOWN OF YORKTOWN

**To:** Planning Board

**From:** Conservation Board

**Date:** May 24, 2021

**Re:** Par 3 Golf Course: Route 6

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The Conservation Board at its May 19, 2021 meeting reviewed the landscape plans to restore the former Shallow Creek Golf Course, now called the Par 3 Golf Course, with Jim Martorano and Sean Murphy. On Saturday May 22, 2021, members of the Conservation Board (Bock/Francois/Pruyne) attended a joint site walk with members of the Yorktown Planning Board, Supervisor Slater, Planning Department representatives and site managers. The Conservation Board had the opportunity to walk the perimeter of the nine-hole executive course and identified the following areas of concern:

The site of the former Shallow Creek Golf Course lies within a network of meandering streams and wetlands that connect Osceola Lake to the east to the Shrub Oak Brook, which is the main stream that ambles through the property before exiting beside the Taconic Parkway into Shrub Oak.

Site managers indicated that the stream is being choked out by existing vegetation and algae, and are very concerned that the “stagnant creek breeds mosquitos that will impact golfers enjoyment of the course.” We did not observe algae nor phragmites, a widespread invasive wetland plant; instead, the stream contains large stands of cattails, pickerelweed and floating masses of duckweed, all native plants indicating a healthy wetland. Although the stream is currently at a low flow due to the Town’s upstream bridge replacement work on Hill Blvd., the vegetation operates as a natural filtration system, and slows the water in times of heavy rains, preventing the stream from eroding the banks. The edges of the streambed have virtually no vegetation and are spongy. Recommendations include enhancing vegetation along the apron of the streambed with native shrubs and perennials.

A large (apparently natural) cistern (old well) is present on the site, adjacent to the contemplated ninth tee box. We noted the cistern populated by frogs and containing duckweed.

It appears that there has recently been grading and seeding done to an area adjacent to the widest part of the stream in the east corner of the property. Cattails re-emerging through this area indicate that this area was marshy. This appears to be an instance of ongoing work done in regulated wetlands without a permit. We recommend the Planning Board address this.

Site managers indicated that the plan is to divert water from the existing stream for course irrigation. This is a serious concern and we recommend against this.

Site managers indicated that they will filter existing soil and return it to the site and no outside fill will be used. Managers also stated that no pesticides would be used per Town Code. These actions are supported.

Any cartpaths or footpaths should be made of permeable material (i.e. gravel) rather than blacktop, if contemplated.

The Site should include signage not to disturb wildlife or litter in streambed. The area should be enhanced with bluebird/woodduck/batboxes to increase natural predator population, as mosquitoes can be anticipated as a concern.

On review of the tree mitigation plan, the Tree Commission noted serious concerns with the amount and type of mitigation planned. The Conservation Board agrees that a better plan should be presented, and plants that are not native such as forsythia and Norway spruce should be eliminated. On the site visit, John Tegeder indicated that the forested area to the south of the course, also Town property, could be cleared of invasive species and replanted with native understory trees and shrubs. The outer perimeter of the site closest to Route 6 and the TSP exit presents another opportunity for mitigation and should be cleared of invasive plants and enhanced with native trees.

The Board would like to see an amended tree mitigation and landscape plan, and wetland mitigation plan for any work proposed along the stream as well as for work already done on the site. In addition, the site developers should employ current "green" greens practices utilized by many golf courses. The NY Golf Course Foundation and Cornell University Best Management Practices for NYS Golf Courses link below.

[https://www.gcsaa.org/docs/default-source/environment/new-york-bmps-2nd-edition.pdf?sfvrsn=65faf83e\\_2](https://www.gcsaa.org/docs/default-source/environment/new-york-bmps-2nd-edition.pdf?sfvrsn=65faf83e_2)

Respectfully submitted:

*Phyllis Beck*

For the Conservation Board

CC: Town Board  
Planning Board  
Supervisors Office  
Engineering Dept.  
Applicant





**Parks, Recreation,  
and Historic Preservation**

**ANDREW M. CUOMO**  
Governor

**ERIK KULLESEID**  
Commissioner

May 27, 2021

RECEIVED  
PLANNING DEPARTMENT

MAY 28 2021

TOWN OF YORKTOWN

Alexandra Ryan  
General Engineer/Project Manager  
USACE Operations  
Regulatory 16-406  
26 Federal Plaza  
New York, NY 10278

Re: USACE  
Soundview -Underhill Farms Development  
Town of Yorktown, Westchester County, NY  
21PR02382

Dear Alexandra Ryan:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the provided documentation in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Flora Villa, also known as the Underhill Estate and Soundview Preparatory School is eligible for listing in the State and National Registers of Historic Places. First developed in 1828, the estate appears to be eligible under Criterion A and C. Criteria A for Abraham and Edward B. Underhill's contribution to the settlement and economic development of Yorktown and C, as an intact example of a Federal style building adapted to the Italianate style reflecting the evolution of popular architectural tastes throughout the mid-to-late 19<sup>th</sup> century. The mansion, outbuildings, farmland, parklike lawns and stone walls all contribute to the property and retain integrity.

Our office has reviewed the proposed development of the property. With the intensity of construction proposed the setting and feeling of the property would be significantly altered. We further note that the majority of the contributing outbuildings on site are proposed for removal. Under the provisions of Section 106, demolition of historic resources is deemed an Adverse Effect.

This finding triggers an exploration of prudent and feasible alternatives that might avoid or reduce the project effects. As a matter of policy and practice, this exploration must occur before mitigation measures can be developed and before demolition can occur. If no prudent and feasible alternatives are identified in the analysis, we would begin development of a formal agreement document, which would document the reasons for the adverse finding and identify proper mitigation measures to be incorporated into the work.

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**Division for Historic Preservation**

P.O. Box 189, Waterford, New York 12188-0189 • (518) 237-8643 • parks.ny.gov

During the Section 106 process, consulting parties should be invited to participate in the process. Please note that the Yorktown Heritage Preservation Commission and the Underhill Society of America, Inc., may be interested in being included as consulting parties as required under 36 CFR Part 800.2. If you have any questions, I am best reached by email.

Sincerely,

A handwritten signature in black ink, appearing to read 'DR', with a long horizontal flourish extending to the right.

Derek Rohde  
Historic Site Restoration Coordinator  
e-mail: [derek.rohde@parks.ny.gov](mailto:derek.rohde@parks.ny.gov)

via e-mail only





# RE/MAX<sup>®</sup>

## Town & Country

RECEIVED  
PLANNING DEPARTMENT

JUN 4 2021

TOWN OF YORKTOWN

*Dear Planning Board & To Whom It May Concern,*

*My Name is Howard Payson. I am the Broker-Owner of RE/MAX Town & Country. We are excited to be opening a new office in Yorktown. With this new venture, we see a great opportunity to continue the efforts of enhancing our community.*

*We understand 2013 Crompond, has been considered an eye sore by the community and while we don't own the building. We take pride in everything we do. Hence, we are proposing a beautiful, elegant mural showcasing the great features of Yorktown. So that our community can be proud of its heritage. It is with a humble request that we are give permission to trim the hedges that cover the building. So that visitors and community members can see what culture we have here. As I have been told the hedge was designed to hide the building because of its current state. With the update, in our opinion the mural would negate the original purpose.*



RE/MAX<sup>®</sup>

*Town & Country*

*Please feel free to contact me with any questions, suggestions, or recommendations.*

*Thank You for your consideration*

*Howard Payson*

*Broker-Owner*

## Robyn Steinberg

---

**From:** Robyn Steinberg  
**Sent:** Monday, June 14, 2021 10:40 AM  
**To:** Rich Fon; William LaScala; Aaron Bock; Robert Garrigan; Roxanne Visconti; JWGlatthaar (JWGlatthaar@bpslaw.com); Dan Ciarcia; John Tegeder; Nancy Calicchia; Matthew Slater; Ed lachterman  
**Subject:** FW: Latest version from Chris  
**Attachments:** cablevision2.jpg

Below is the latest version of the mural proposed on the old cablevision building along with the attached photo of the existing conditions on the site. Mr. Payson is requesting to add the mural on the side of the building and lower the row of hedges along the road so it can be seen. Information on this request was included in the correspondence section of the book. You can briefly discuss and refer to ABACA for their next meeting on June 22.

\*\*\*\*\*

**Robyn A. Steinberg, AICP, CPESC**  
Town of Yorktown Planning Department  
Albert A. Capellini Community & Cultural Center  
1974 Commerce Street, Room 222  
Yorktown Heights, NY 10598  
Phone | 914-962-6565  
Email | [rsteinberg@yorktownny.org](mailto:rsteinberg@yorktownny.org)  
Web | <http://www.yorktownny.org/planning>

---

**From:** Matthew Slater  
**Sent:** Monday, June 14, 2021 10:28 AM  
**To:** Robyn Steinberg <[rsteinberg@yorktownny.org](mailto:rsteinberg@yorktownny.org)>  
**Subject:** FW: Latest version from Chris

See below.

Matt Slater  
Yorktown Town Supervisor  
914-962-5722 X200  
[mslater@yorktownny.org](mailto:m Slater@yorktownny.org)

---

**From:** Howard Payson <[hjpayson@gmail.com](mailto:hjpayson@gmail.com)>  
**Sent:** Monday, June 14, 2021 10:05 AM  
**To:** Matthew Slater <[m Slater@yorktownny.org](mailto:m Slater@yorktownny.org)>  
**Subject:** Re: Latest version from Chris

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Matt,  
I know things are crazy. According to the planning receptionist I am not on the agenda for the planning meeting tonite. If there is anything, you or I can do to expedite the process, please let me know. I would ultimately have this completed by September for a grand opening coordination.

On Sun, Jun 13, 2021 at 1:48 PM Matthew Slater <[m Slater@yorktownny.org](mailto:m Slater@yorktownny.org)> wrote:

Howard,

Looks great!

Matt

On Jun 13, 2021 8:00 AM, Howard Payson <[hipayson@gmail.com](mailto:hipayson@gmail.com)> wrote:

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



ELUP  
CONDITIONING



# WELCOME TO YORKTOWN



Franklin D. Roosevelt  
State Park







# WELCOME TO YORKTOWN





John A. Tegeder, R.A.

Director of Planning

[Town of Yorktown, N.Y.](#)

[1974 Commerce Street](#)

[Yorktown Heights, N.Y. 10598](#)

Tel. (914)962-6565 x 326

Fax (914)962-3986

[www.yorktownny.org](http://www.yorktownny.org)

[jtegeder@yorktownny.org](mailto:jtegeder@yorktownny.org)

---

**From:** Howard Payson [mailto:[hjpayson@gmail.com](mailto:hjpayson@gmail.com)]

**Sent:** Friday, June 04, 2021 10:36 AM

**To:** Matthew Slater <[m Slater@yorktownny.org](mailto:m Slater@yorktownny.org)>; John Tegeder <[jtegeder@yorktownny.org](mailto:jtegeder@yorktownny.org)>

**Cc:** Diane Butterman <[dbuttermax@gmail.com](mailto:dbuttermax@gmail.com)>

**Subject:** Re:

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

John,

Please confirm receipt. Thank You

On Thu, Jun 3, 2021 at 9:35 PM Howard Payson <[hjpayson@gmail.com](mailto:hjpayson@gmail.com)> wrote:

John & Matt,

It was a pleasure meeting you at the building today. Please let me know your thoughts. I have added some other images that we can add too.

I have attached pictures of initial design, envision on the wall, pics of the area, what I believe is the site plan? Which application do I need to submit?

Size is approximate 10 Ft High by 50/60 ft Wide.

Thank You I appreciate all your help

--

Sincerely,

**Howard Payson**

*G.R.I (Graduate Realtor Institute), E-Pro (Electronic Professional)*

*Licensed Real Estate Broker/Owner*

*"For service before, during & after the sale in NY & CT"*



**RE/MAX**  
*Town & Country*

[584 Route 9, Ste 106](#)

[Fishkill, NY 12524](#)

**Cell: (203) 240-7233**

Direct: (845) 232-0844

Direct (914) 340-4345

Email: [hjpayson@gmail.com](mailto:hjpayson@gmail.com)

[View homes on the Market via my website](#)

[Check me out on Facebook](#)

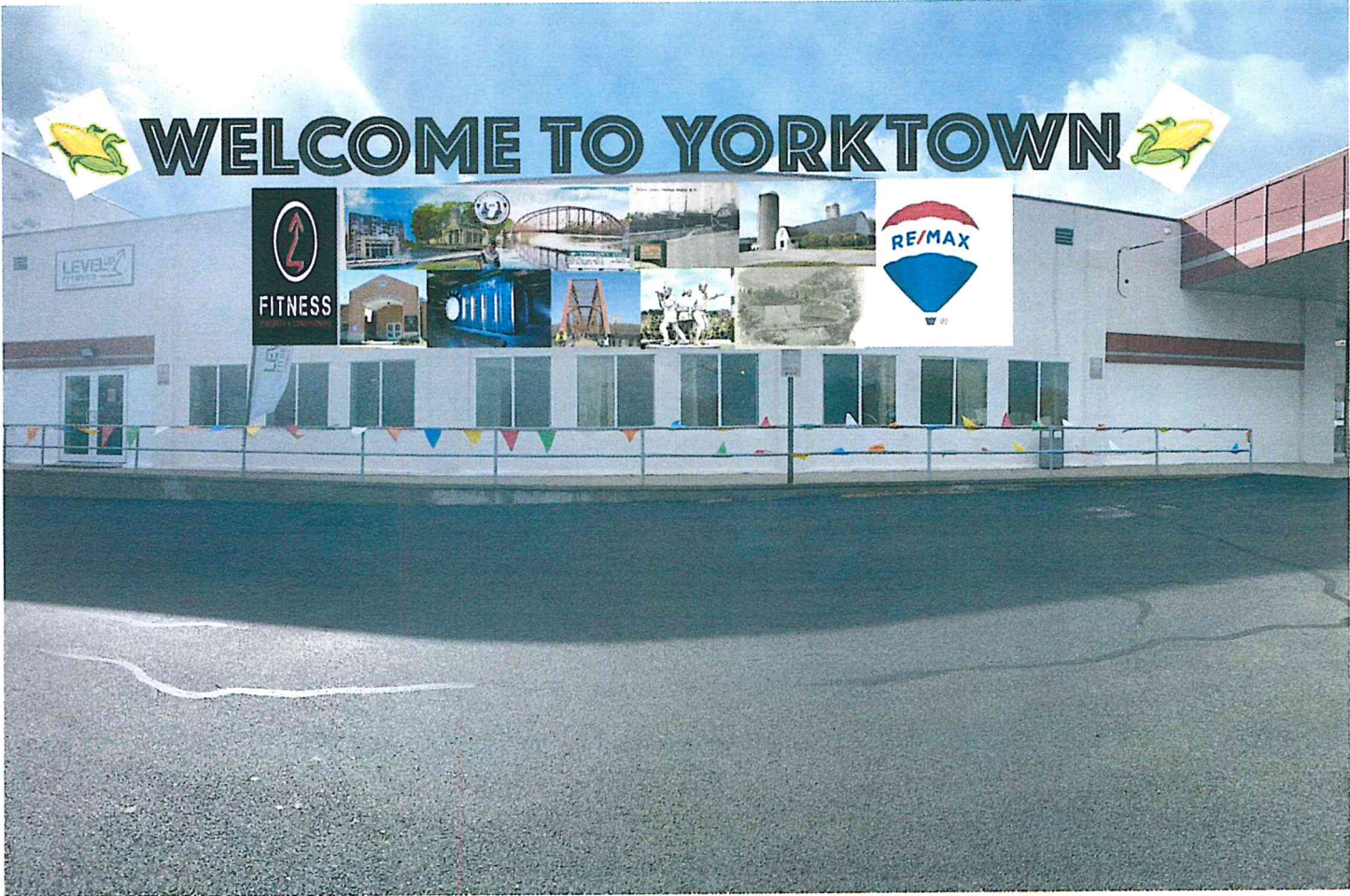
[Video Tour of How I Market Homes](#)

Sent from my iphone



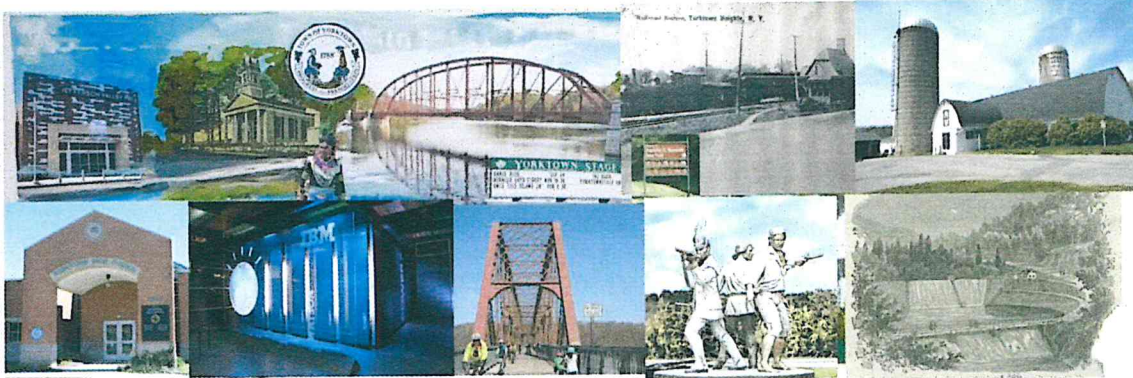
Acme Realty – Proposed Mural

June 4, 2021





# WELCOME TO YORKTOWN

















LEASE  
914-987-8867

2

500 sq. ft. AVAILABLE

500 sq. ft. AVAILABLE

500 sq. ft. AVAILABLE

STOP  
11





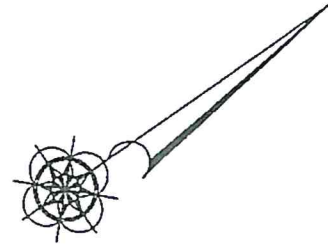








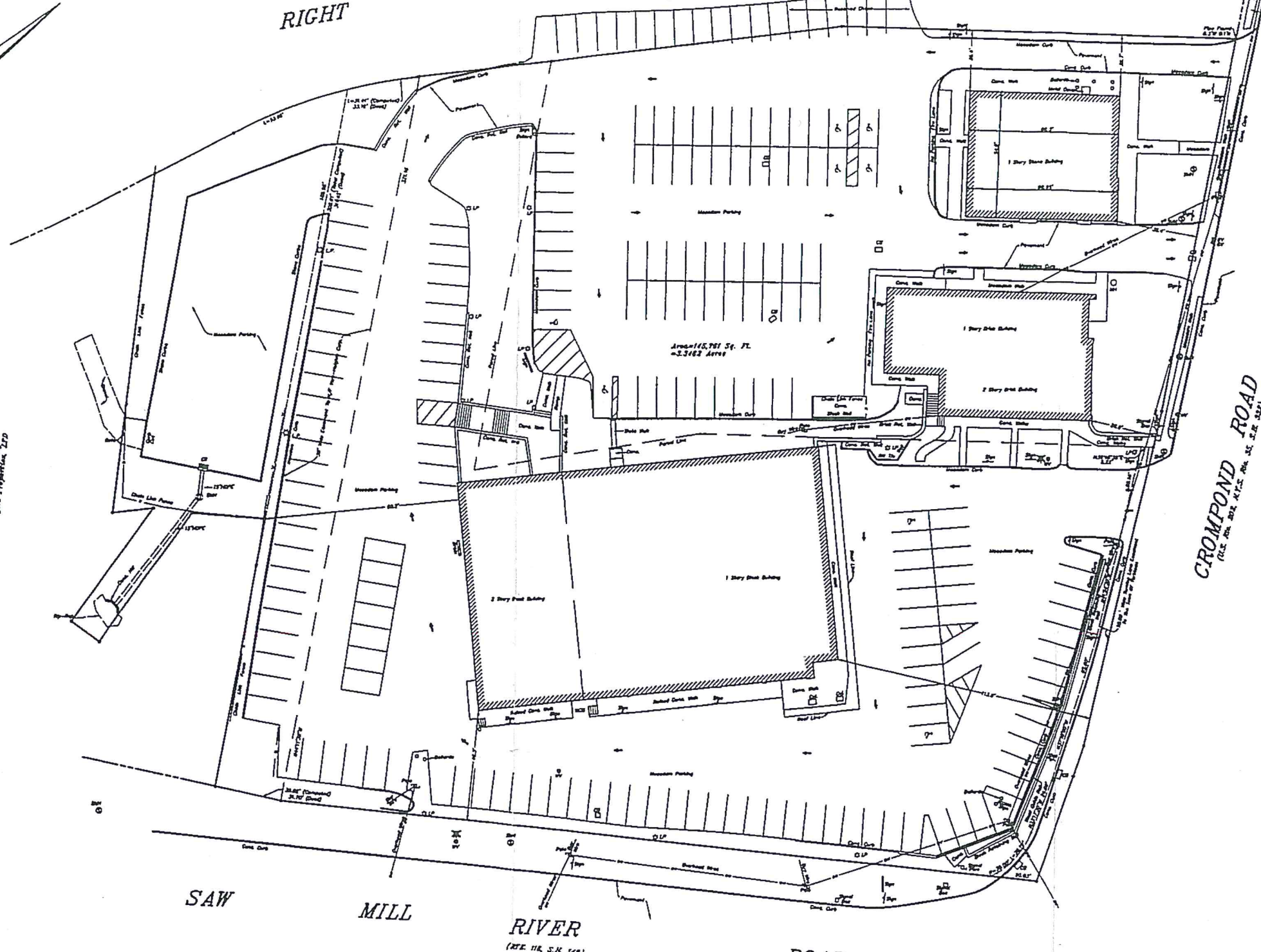




RIGHT OF WAY

How Dr. Property  
Municipal Property, LTD

CROMPOND ROAD  
(SEE MAPS 202, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000)



SAW MILL RIVER ROAD

MAP OF PROPERTY PREPARED  
For  
**ACME REALTY**

Situate in the  
**TOWN OF YORKTOWN**  
**COUNTY OF WESTCHESTER, NY**  
Scale: 1"=20' April 21, 2016

PREPARED BY:  
COPYRIGHT © 2016 DONNELLY LAND SURVEYING, P.C. ALL RIGHTS RESERVED

*Donald D. Coleman*

**DONNELLY LAND  
SURVEYING, P.C.**

1929 COMMERCE STREET  
YORKTOWN HEIGHTS, NY 10594  
PHONE: (914) 962-2215  
FAX: (914) 962-2209

DONALD D. COLEMAN, L.S., N.Y.S. LIC. NO. 49822



Christopher Taormina, RA  
Chairman

Matthew Slater  
Town Supervisor

## TOWN OF YORKTOWN

### ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (ABACA)

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6365

RECEIVED  
PLANNING DEPARTMENT

JUN 11 2021

**To:** Planning Department

**From:** ABACA

**Date:** June 10, 2021

**Subject:** Extra Space Storage at Staples Plaza / SBL: 36.06-2-76; 3333 Crompond Road

TOWN OF YORKTOWN

- Review of proposed alterations to tenant space 2, formerly occupied by A.C. Moore, to expand the self-storage use into approximately 16,000SF of this space with a rear entrance.
- Review of faux storage doors installed below the existing Extra Space Storage sign without approval.

*Documents Reviewed:*

Title:	Date:	Produced By:
Staples Plaza – Tenant Space 2 - Proposed Expansion - Plan Set, Sheets 1-16 Photos	4-9-2021	Studio Architecture

The Advisory Board on Architecture and Community Appearance reviewed the above referenced subject via video conference at the Board meeting held on Tuesday, June 8, 2021. Chris Raffaelli of Studio Architecture was present.

The ABACA has the following comments:

1. **Proposed Extra Space storage expansion** – The ABACA has no objections to the proposal as presented and discussed.
2. **Installation of faux storage doors on the front façade of the building below the existing Extra Space Storage sign without approval (photo attached)** – Mr. Raffaelli informed the Board that the applicant is no longer seeking approval for the installation of this display. The display will be removed within the next month and revert back to what it was previously.

*Christopher Taormina*

Christopher Taormina, RA  
Chairman

/nc

cc: Applicant



Christopher Taormina, RA  
Chairman

Matthew Slater  
Town Supervisor

## TOWN OF YORKTOWN

### ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (ABACA)

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565

ABACA Memo – Extra Space Storage

June 10, 2021

Page 2

#### EXISTING FAUX STORAGE DOOR DISPLAY TO BE REMOVED BY APPLICANT





MAY 26 2021

TOWN OF YORKTOWN



Environmental  
Protection

May 26, 2021

Robyn A. Steinberg, Town Planner  
Town of Yorktown  
363 Underhill Avenue, P.O. Box 703  
Yorktown Heights, NY 10598

Vincent Sapienza P.E.  
Commissioner

Re: **Notice of Intent to be Lead Agency  
Dell Avenue Solar Farm  
Dell Avenue  
Town of Yorktown; Westchester County, NY  
Tax Map #: 70.15-1-2  
DEP Log #: 2010-CNC-0479-SQ.2**

Paul V. Rush, P.E.  
Deputy Commissioner  
Bureau of Water Supply  
prush@dep.nyc.gov

Dear Ms. Steinberg and Members of the Planning Board:

465 Columbus Avenue  
Valhalla, NY 10595

T: (845) 340-7800  
F: (845) 334-7175

The New York City Department of Environmental Protection (DEP) has reviewed the Town of Yorktown Planning Board's (Board) Notice of Intent to act as Lead Agency and short Environmental Assessment Form (EAF) for the above-referenced project. DEP does not object to the Board acting as Lead Agency for the Coordinated Review of the proposed action pursuant to the New York State Environmental Quality Review Act (SEQRA).

The proposed site is located in the New Croton Reservoir drainage basin of New York City's Water Supply. New Croton Reservoir is phosphorous restricted; as such, water quality impacts to the receiving reservoir from pollutant-laden runoff must be avoided or mitigated.

The proposed action involves the construction and installation of a new 3,652 kWac fixed-tilt ground-mounted solar array and ~15MW (4 hour) energy storage system.

DEP's status as an involved agency stems from its review and approval authority for a Stormwater Pollution Prevention Plan (SWPPP) pursuant to Section 18-39 of the *Rules and Regulations for the Protection from Contamination, Degradation, and Pollution of the New York City Water Supply and Its Sources* (Watershed Regulations).

Based upon the review of the submitted documents, DEP respectfully submits the following comments for the Board's consideration:

1. According to the EAF, approximately 16.23 acres of disturbance is proposed. As such, it appears this activity would be considered a Type I action rather than an unlisted; and, a long form EAF should be required.



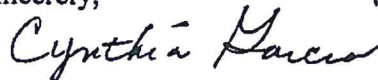
2. There is no detail provided on how the solar panels will be mounted although the examples show flat or tilted panels. The submission mentions storing lithium batteries onsite, however additional information of how and what type of batteries will be stored should be provided. Batteries comprised of harmful chemical substances to be located near wetlands and stream buffers is prohibited under Section 18-41 of the Watershed Regulations. The applicant should provide detailed information about the battery use and storage to determine the extent of the project's permit requirements.

As stated, the EAF indicates over 16 acres of physical disturbance for the proposed action. Per Section 18-39(b) (3) (ii) of the Watershed Regulations, it appears that the surface hydrology of the land may change by more than 5% from pre- to post-development conditions and therefore a full SWPPP with post construction stormwater controls may be required. The site plan does not depict any information on where and what type of stormwater practices would be proposed to provide adequate mitigation and how runoff would be treated. It is advised that the applicant contact DEP representative, Mariyam Zachariah @ (914)749-5357 to schedule a virtual pre-application meeting to discuss details of the project and to confirm any DEP permit requirements and prohibitions.

3. Since local wetlands are present on site, watercourses as defined by DEP may also be present on site. The applicant's representative is encouraged to schedule a site walk with DEP at their earliest convenience to locate the presence and status of any waterbodies or watercourses on site. The applicant's representative may Mariyam Zachariah at [mzachariah@dep.nyc.gov](mailto:mzachariah@dep.nyc.gov) to make arrangements.
4. It appears that some of the solar panels proposed may be within the 100 foot limiting distance of the watercourse situated near the intersection of Dell Avenue and Pines Bridge Road. The construction of new impervious surfaces is generally prohibited within 100 feet of a watercourse. Furthermore, land disturbance within stream buffer areas must be avoided and or mitigated.

Thank you for the opportunity to provide comments. You may reach the undersigned at [cgarcia@dep.nyc.gov](mailto:cgarcia@dep.nyc.gov) or (914) 749-5302 with any questions or if you care to discuss the matter further.

Sincerely,



Cynthia Garcia, Supervisor  
SEQRA Coordination Section

X: J. Petronella, NYSDEC Region 3  
N. Drummond, WCPD



# **Draft Minutes**



# **Stahmer Lot 1**



**TOWN OF YORKTOWN  
PLANNING BOARD**

**RESOLUTION APPROVING  
STORMWATER POLLUTION PREVENTION AND TREE PERMIT  
#FSWPPP-T-075-16 FOR STAHMER SUBDIVISION LOT 1**

**RESOLUTION NUMBER: #**

**DATE:**

Upon motion by \_\_\_\_\_, seconded by \_\_\_\_\_, and unanimously voted in favor by Fon, LaScala, Bock, Garrigan, and Visconti, the following resolution was adopted:

**WHEREAS** a subdivision plat and improvement plan for the Stahmer Subdivision was approved by Resolution #18-01 dated February 26, 2018 and amended as a result of NYC DEP approval by Resolution #19-19 dated July 15, 2019; and

**WHEREAS** Resolution #18-01 approved a Stormwater Pollution Prevention Plan Permit #FSWPPP-T-075-16 for a three-lot subdivision including the subject parcel; and

**WHEREAS** Lots 2 and 3 of the subdivision have been purchased by a different property owner and are subject to separate amended stormwater and tree permits; and

**WHEREAS** Andrew Fiore (the “Applicant”), has applied to amend Permit #FSWPPP-T-075-16 to reflect only the proposed development on subdivision Lot 1, also known as Section 59.10, Block 1, Lot 10 on the Town of Yorktown Tax Map, and as shown on the following maps and documents submitted in support of this application:

1.  Improvement Plans, 4 sheets, titled, “Fiore Residence,” prepared by Insite Engineering, Surveying, and Landscape Architecture, P.C., and dated April 28, 2021; and
2.  Addendum to the Stormwater Pollution Prevention Plan for Lot 1 of the Stahmer Subdivision (Fiore Residence), prepared by Insite Engineering, Surveying, and Landscape Architecture, P.C., and dated April 28, 2021; and

**WHEREAS** no significant changes have been made from the approved improvement plan for Lot 1; and

**WHEREAS** after full review of the SWPPP and consideration of the staff comments regarding the Stormwater Pollution and Prevention Plan, the Board found the plan to be acceptable; and

**NOW THEREFORE BE IT RESOLVED** that stormwater permit #FSWPPP-T-075-16 is hereby approved subject to the conditions listed therein.



**BE IT FURTHER RESOLVED** Permit #FSWPP-T-075-16 shall not be valid until it has been signed by the Chairman of this Board.





April 29, 2021

Town of Yorktown Planning Board  
Planning Department  
Yorktown Community & Cultural Center  
1974 Commerce Street, Room 222  
Yorktown Heights, N.Y. 10598

RE: Fiore Residence (Lot 10 of Stahmer Subdivision)  
600 Birdsall Drive, Town of Yorktown  
Tax Map #59.10-1-10

Dear Chairman Fon and Members of the Board:

Enclosed please find the following information:

- Site Plans (4 Sheets) dated April 28, 2021 (3 copies).
- Addendum to the Stormwater Pollution Prevention Plan (SWPPP) dated April 28, 2021 (2 copies).
- Revised MS4 Stormwater Management Permit Application dated April 29, 2021 (1 copy)

The subject project consists of the construction a single-family residence including a driveway, patio and associated appurtenances. This property is Lot 10 of the Stahmer subdivision filed in December of 2019. At the time of the subdivision approval a single stormwater permit was issued for all three lots of the subdivision. As individual lots are sold it is necessary for each lot to obtain its own permit.

The current owner of Lot 10, Mr. Andrew Fiore, is proposing a revised house footprint, revised landscaping and slightly different driveway layout. As such, enclosed is an Addendum to the previously approved Stormwater Pollution Prevention Plan (SWPPP) and revised MS4 Stormwater Permit Application. The original permit number was #FSWPPP-T-075-16.

We respectfully request this matter to be placed on the May 24 Work Session agenda for issuance of the updated stormwater permit for the individual lot.

Should you have any questions or comments regarding this information, please feel free to contact our office.

Very truly yours,

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

By:

  
Richard D. Williams, P.E.  
Principal Engineer

RDW/jwm

Enclosure(s)

cc: Andrew Fiore (email only)

Insite File No. 20213.100





**Addendum**  
to the  
**STORMWATER POLLUTION PREVENTION PLAN**  
For  
**Lot 1 of the Stahmer Subdivision (Fiore Residence)**  
**600 Birdsall Drive**  
**Town of Yorktown, New York**  
**April 28, 2021**

**Owner / Applicant Information:**

Andrew Fiore  
37 South 8<sup>th</sup> Street, Unit #306  
Brooklyn, New York 11249

**Note: This report in conjunction with the project plans make up the complete Stormwater Pollution Prevention Plan.**

Prepared by:  
Insite Engineering, Surveying & Landscape Architecture, P.C.  
3 Garrett Place  
Carmel, New York 10512



## 1.0 INTRODUCTION

The following Addendum is for the previously approved Stormwater Pollution Prevention Plan (SWPPP) prepared for the Stahmer Subdivision. Lot 10 of the subdivision has been purchased and the new owner is proposing to construct a single-family residence including a driveway, patio and associated appurtenances. The subject property is identified as Section 59.10-1-10 in the Town of Yorktown.

The project is proposing modifications to the driveway and house footprint. Approximately 0.24 acres of impervious surfaces are proposed (0.23 acres were previously proposed on this lot.) Also, the project proposes an alternate tank manufacturer for the proposed Stormwater Cistern than what was previously approved. The alternate Stormwater Cistern has been designed to capture and treat the runoff from the proposed impervious surfaces and does not change the previously approved design assumptions.

Design Lines (Design Lines 1 & 3) and Design Point (Design Point 2) utilized in our previously analysis have not changed. The portion of the subject property that drains west are tributary to Design Line 1 & 3. These areas are consistent with what was shown on the approved SWPPP for the subdivision and are not the subject of this addendum. This report analyzes the subcatchments tributary to Design Point 2 as these are revised based on the modified house footprint, driveway and cistern tank manufacturer.

The following report has been prepared to address the proposed modifications to the approved Stormwater Pollution Prevention Plan (SWPPP). As shown in the following sections of this report, the stormwater quality and quantity for the proposed development have been treated in accordance with the requirements of the NYSDEC General Permit, GP-0-20-001, the requirements of Town of Yorktown, the New York City Department of Environmental Protection (NYCDEP) and the previously approval.

## 2.0 STORMWATER MANAGEMENT

The following summary demonstrates that the revised house footprint and driveway and alternate Stormwater Cistern still provide the required stormwater quality and quantity treatment for the proposed development:

- The following table summarizes the required and provided  $WQ_v$  /  $RR_v$  for the approved and amended SWPPP as calculated in Attachment B.

**Table 1 –  $WQ_v$  /  $RR_v$  Summary Table**

SMP ID	Initial $WQ_v$	Volume provided below overflow pipe <sup>1</sup>
2.1P (Previously Approved)	0.049 a.f.	0.058 a.f.
2.1P (Amended)	0.051 a.f.	0.059 a.f.

<sup>1</sup> The volume below the overflow pipe can be verified in the HydroCAD output contained in Attachment B.

- The proposed Cistern is sized to capture and store the entire  $WQ_v$  generated from the 1-year storm. Therefore, the NYSDEC Stream Channel Protection Volume (CP<sub>v</sub>) requirement does not apply, and the criterion is still met in this SWPPP Amendment.
- The Stormwater Cistern Sizing Calculations shown on Attachment E demonstrate that the proposed Cistern has been sized in general accordance with the NYSDEC Design Manual.
- The peak flows for Design Point 2 were recalculated and are summarized for the approved and amended SWPPP in the table below.



**Table 2 Pre and Post-Development Peak Flows at Design Point/Line**

24-HOUR DESIGN STORM PEAK FLOWS (c.f.s.)						
	10-YEAR (Overbank Flood Control)			100-YEAR (Extreme Flood Control)		
	Pre	Post (Previously Approved)	Post (Amended)	Pre	Post (Previously Approved)	Post (Amended)
Design Point 2	5.08	4.90	4.91	11.29	10.45	11.19

As shown in the above table, the site meets the requirements for  $Q_p$  and  $Q_f$  for the Amended Site Plan. For additional information see attached HydroCAD output in Attachment A & B.

- Per the Rules and Regulations, the stormwater treatment volume used shall be the greater of the runoff volume from the 1-year, 24-hour storm event or the volume generated by the 90% storm. The initial WQv from the 1-year storm event was discussed above. The following equation, per Chapter 4, was used to determine the water quality volume for the 90% storm event for for the approved and amended SWPPP:

**Table 3 - Water Quality Volume Calculation Summary 90% Storm vs. 1-Year Storm Comparison**

Subcatchments	P (in.)	%I	$R_v$ <sup>1</sup>	A (ac.)	WQ <sub>v90</sub> (a.f.)	WQ <sub>v</sub> 1-year (a.f.)
2.1S (Previously Approved)	1.5	79.3	0.76	0.29	0.028	0.049
2.1S (Amended)	1.5	92.3	0.88	0.26	0.029	0.051

<sup>1</sup> A minimum  $R_v$  of 0.2 is required

As shown in the table above, the volume produced by the 1-year, 24-hour design storm for subcatchments 2.1S & 2.2S are larger than the volume produced by the 90% storm. Therefore, the 1-year, 24-hour design storm volumes shall still be used for the WQv sizing in this report.

- The stormwater collection and conveyance systems have been slightly modified to accommodate the revised building footprint and driveway. Revised Pipe Sizing Calculations can be found in Attachment C.
- Hydrodynamic Separator Sizing and Information can be found in Attachment D.

### 3.0 CONCLUSION

Based on the above, the slight increase in impervious area, and the change in tank manufacturer do not alter the previous design, its assumptions, or the approvals. The proposed modifications are consistent with Town of Yorktown, NYSDEC and NYCDEP Stormwater requirements.



**ATTACHMENTS**

Attachment A	Pre-development HydroCAD Output
Attachment B	Revised Post-development HydroCAD Output
Attachment C	Revised Pipe Sizing Calculations
Attachment D	Hydrodynamic Separator Information
Attachment E	Revised Stormwater Cistern Sizing Calculations

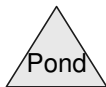
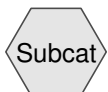
**FIGURES**

Figure 2: Pre-Development Drainage Map
Figure 3: Revised Post-Development Drainage Map



**ATTACHMENT A**  
**Pre-development HydroCAD Output**





**Routing Diagram for A - Pre-development Drainage**

Prepared by Insite Engineering, Surveying and Landscape Architecture, P.C., Printed 4/27/2021

HydroCAD® 10.00-15 s/n 00891 © 2015 HydroCAD Software Solutions LLC



# A - Pre-development Drainage

Precip.net 24-hr S1 10-yr Rainfall=5.12"

Prepared by Insite Engineering, Surveying and Landscape Architecture, P.C. Printed 4/27/2021  
 HydroCAD® 10.00-15 s/n 00891 © 2015 HydroCAD Software Solutions LLC Page 2

## Summary for Subcatchment 2.0S:

Runoff = 5.08 cfs @ 12.10 hrs, Volume= 0.454 af, Depth= 2.29"

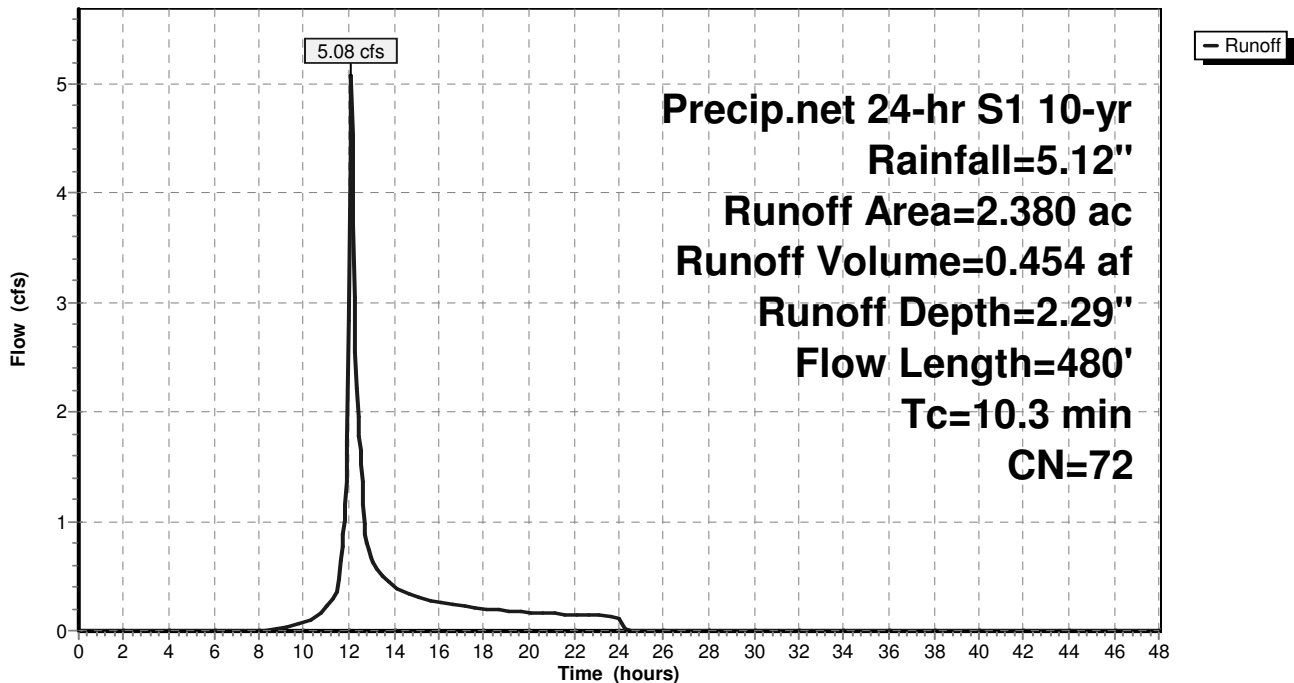
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs  
 Precip.net 24-hr S1 10-yr Rainfall=5.12"

Area (ac)	CN	Description
* 0.350	70	Woods, Fair, HSG C
1.210	71	Meadow, non-grazed, HSG C
0.060	98	Paved parking, HSG C
0.760	74	>75% Grass cover, Good, HSG C
2.380	72	Weighted Average
2.320		97.48% Pervious Area
0.060		2.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.0350	0.22		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.40"
2.6	360	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0270	3.34		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
10.3	480	Total			

## Subcatchment 2.0S:

Hydrograph





# A - Pre-development Drainage

Precip.net 24-hr S1 100-yr Rainfall=9.29"

Prepared by Insite Engineering, Surveying and Landscape Architecture, P.C. Printed 4/27/2021  
 HydroCAD® 10.00-15 s/n 00891 © 2015 HydroCAD Software Solutions LLC Page 3

## Summary for Subcatchment 2.0S:

Runoff = 11.29 cfs @ 12.10 hrs, Volume= 1.159 af, Depth= 5.84"

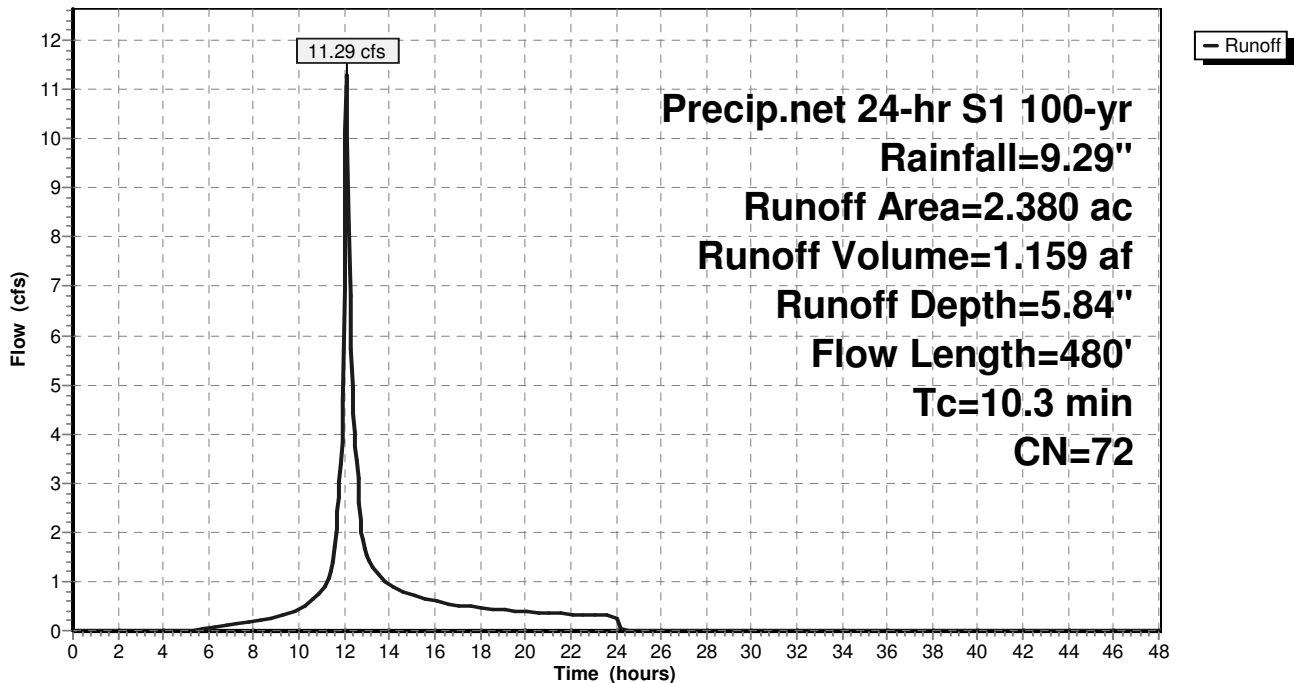
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs  
 Precip.net 24-hr S1 100-yr Rainfall=9.29"

Area (ac)	CN	Description
* 0.350	70	Woods, Fair, HSG C
1.210	71	Meadow, non-grazed, HSG C
0.060	98	Paved parking, HSG C
0.760	74	>75% Grass cover, Good, HSG C
2.380	72	Weighted Average
2.320		97.48% Pervious Area
0.060		2.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.0350	0.22		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.40"
2.6	360	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0270	3.34		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
10.3	480	Total			

## Subcatchment 2.0S:

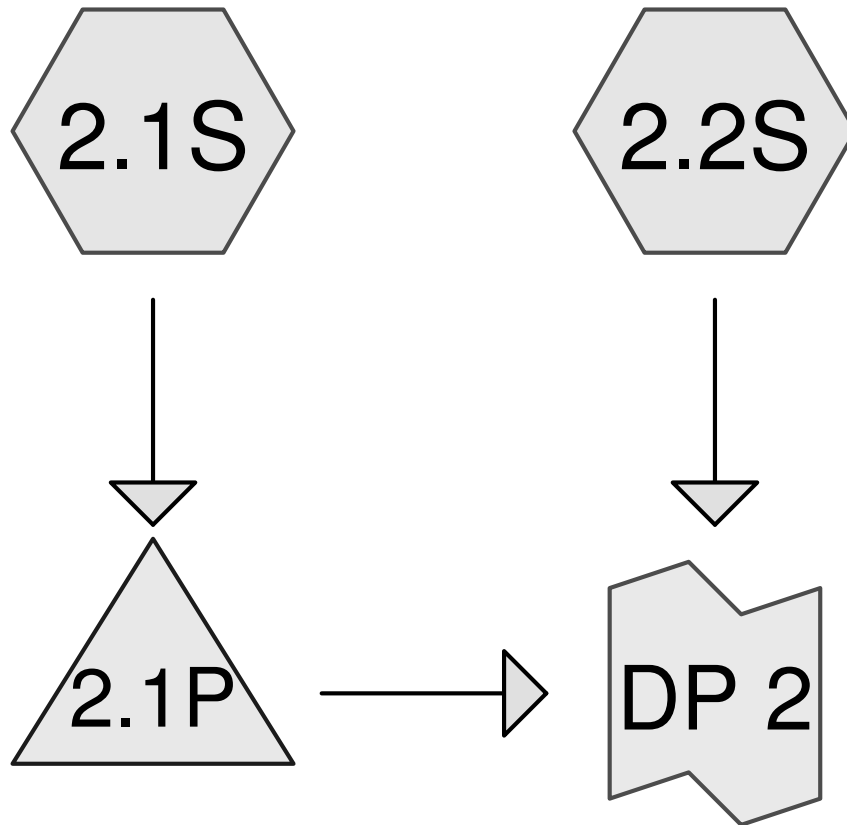
Hydrograph



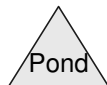
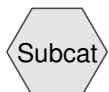


**ATTACHMENT B**  
**Post-development HydroCAD Output**





Design Point 2





## B- Post-development Drainage

Precip.net 24-hr S1 1-yr Rainfall=2.78"

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### Summary for Subcatchment 2.1S:

Runoff = 0.76 cfs @ 12.04 hrs, Volume= 0.051 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Precip.net 24-hr S1 1-yr Rainfall=2.78"

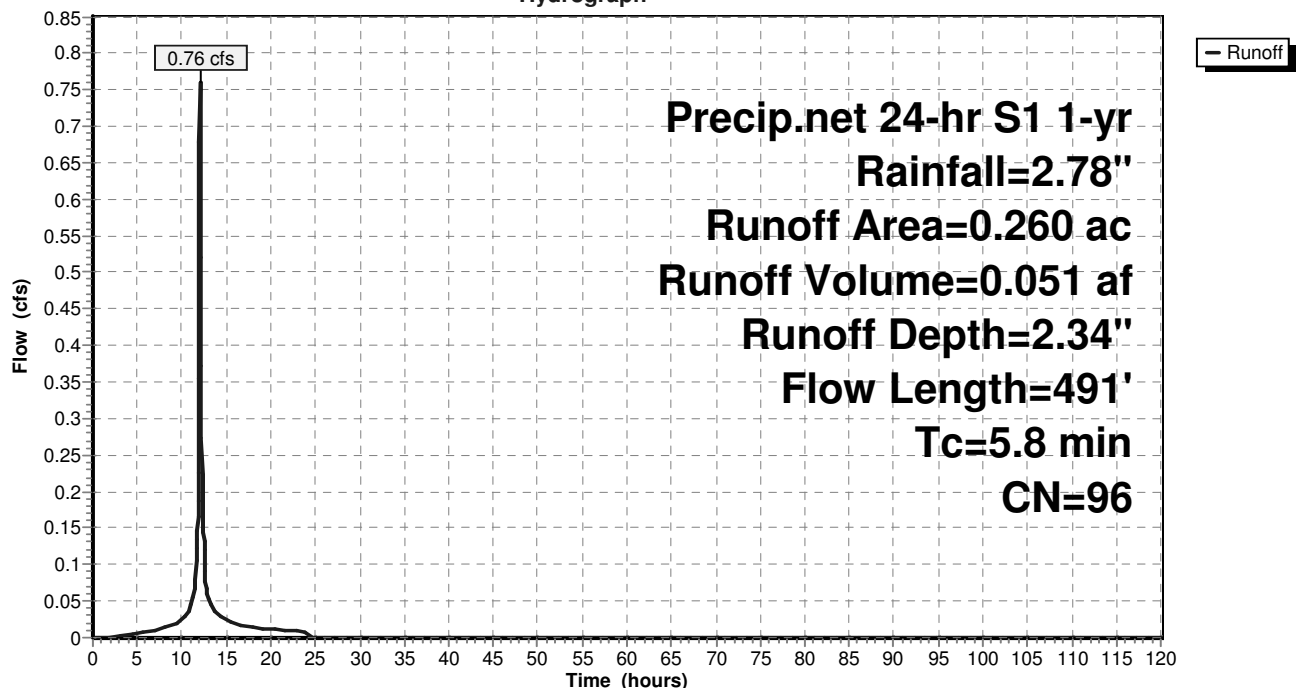
Area (ac)	CN	Description
0.240	98	Paved parking, HSG D
0.020	74	>75% Grass cover, Good, HSG C
0.260	96	Weighted Average
0.020		7.69% Pervious Area
0.240		92.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	47	0.0200	0.15		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.40"
0.3	150	0.0590	7.52	1.48	<b>Pipe Channel,</b> 6.0" Round Area= 0.2 sf Perim= 1.6' r= 0.13' n= 0.012
0.3	294	0.0950	15.15	11.90	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
5.8	491	Total			

### Subcatchment 2.1S:

Hydrograph





## B- Post-development Drainage

Precip.net 24-hr S1 1-yr Rainfall=2.78"

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### Summary for Subcatchment 2.2S:

Runoff = 1.58 cfs @ 12.10 hrs, Volume= 0.134 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Precip.net 24-hr S1 1-yr Rainfall=2.78"

Area (ac)	CN	Description
1.730	74	>75% Grass cover, Good, HSG C
0.300	70	Woods, Good, HSG C
0.060	98	Paved parking, HSG D
2.090	74	Weighted Average
2.030		97.13% Pervious Area
0.060		2.87% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.0350	0.22		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.40"
1.4	177	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	25	0.3000	8.22		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.1	50	0.0800	8.04	24.13	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=1.00' D=1.00' Z= 2.0 '/' Top.W=5.00' n= 0.035 Earth, dense weeds
0.1	67	0.0300	8.51	6.69	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
0.1	38	0.0180	7.65	9.39	<b>Pipe Channel,</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
0.3	167	0.0240	8.83	10.84	<b>Pipe Channel,</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
9.7	624	Total			



**B- Post-development Drainage**

Precip.net 24-hr S1 1-yr Rainfall=2.78"

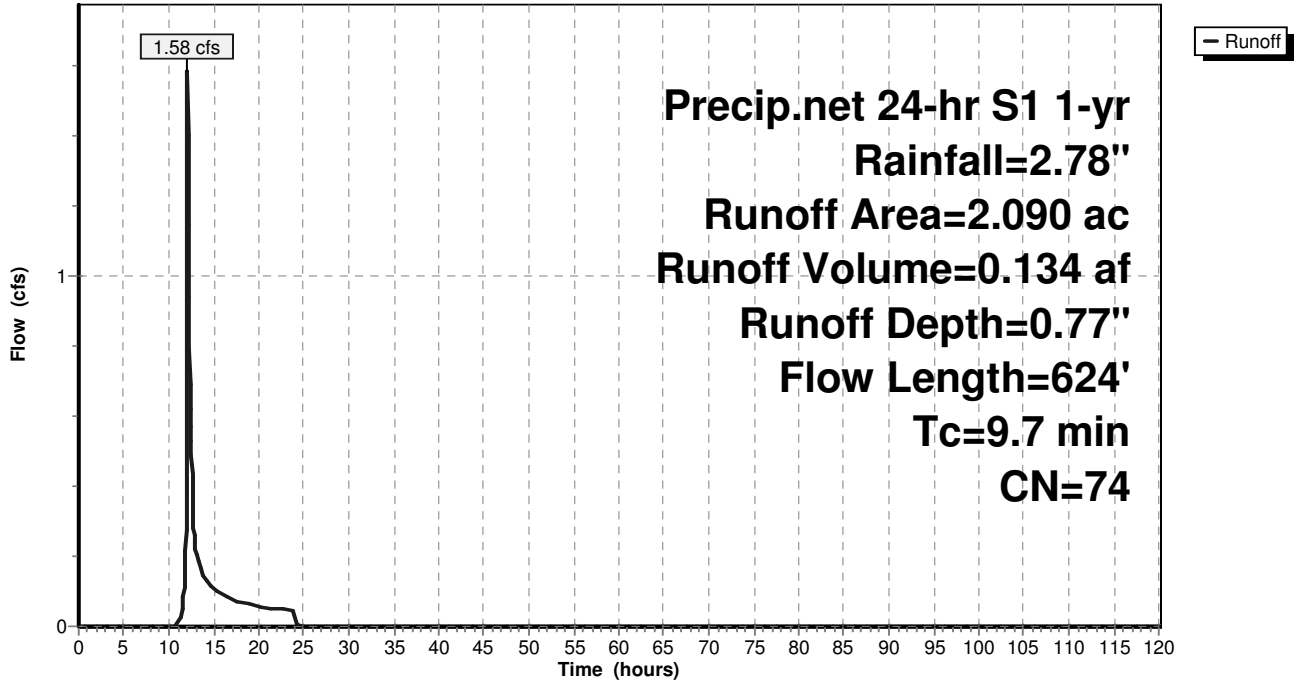
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Page 4

**Subcatchment 2.2S:**

Hydrograph





## B- Post-development Drainage

Precip.net 24-hr S1 1-yr Rainfall=2.78"

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### Summary for Pond 2.1P:

Inflow Area = 0.260 ac, 92.31% Impervious, Inflow Depth = 2.34" for 1-yr event  
 Inflow = 0.76 cfs @ 12.04 hrs, Volume= 0.051 af  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs / 2  
 Peak Elev= 385.14' @ 24.40 hrs Surf.Area= 0.024 ac Storage= 0.051 af

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= (not calculated: no outflow)

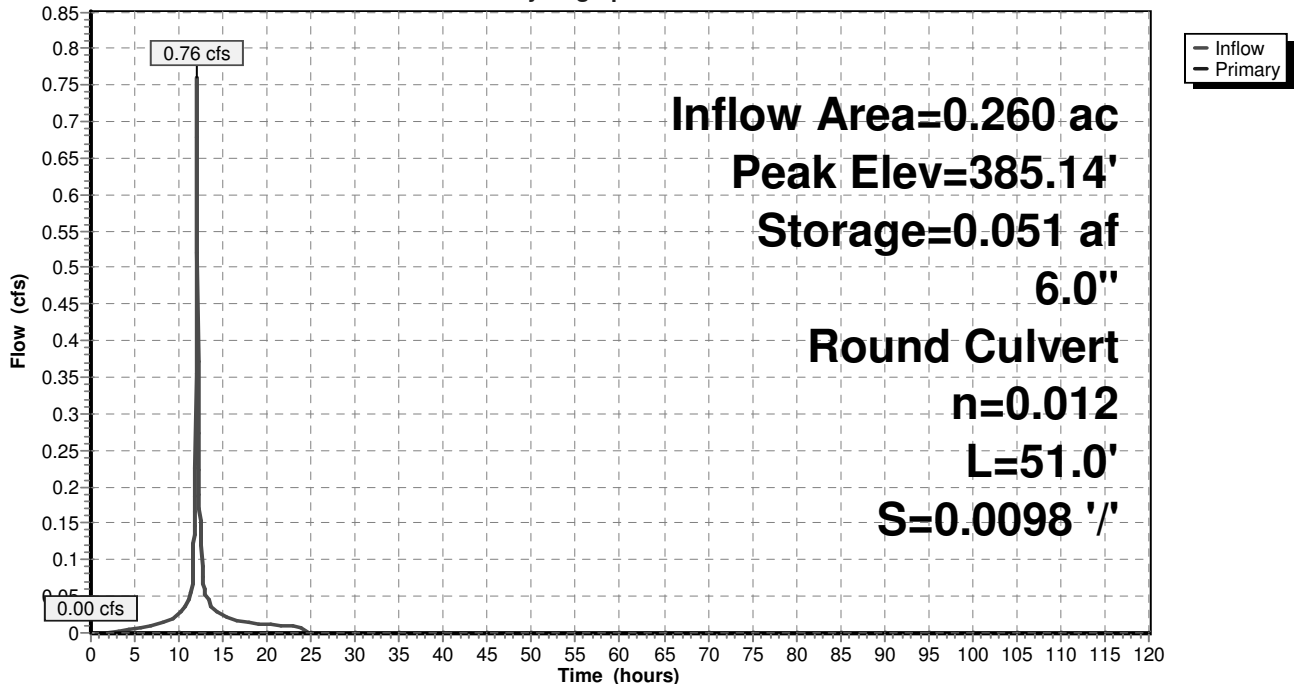
Volume	Invert	Avail.Storage	Storage Description
#1	383.00'	0.078 af	<b>6.00'W x 11.50'L x 6.16'H Prismaoid</b> x 8
#2	383.00'	0.060 af	<b>6.00'W x 13.25'L x 5.50'H Prismaoid</b> x 6
		0.138 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	385.50'	<b>6.0" Round Culvert</b> L= 51.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 385.50' / 385.00' S= 0.0098 '/' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf

**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=383.00' TW=0.00' (Dynamic Tailwater)  
 ↑1=Culvert ( Controls 0.00 cfs)

### Pond 2.1P:

Hydrograph





**B- Post-development Drainage***Precip.net 24-hr S1 1-yr Rainfall=2.78"*

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Page 6

**Stage-Area-Storage for Pond 2.1P:**

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
383.00	0.000	385.08	0.049	387.16	0.098
383.04	0.001	385.12	0.050	387.20	0.099
383.08	0.002	385.16	0.051	387.24	0.100
383.12	0.003	385.20	0.052	387.28	0.101
383.16	0.004	385.24	0.053	387.32	0.102
383.20	0.005	385.28	0.054	387.36	0.103
383.24	0.006	385.32	0.055	387.40	0.104
383.28	0.007	385.36	0.056	387.44	0.105
383.32	0.008	385.40	0.057	387.48	0.106
383.36	0.009	385.44	0.058	387.52	0.107
383.40	0.009	385.48	0.059	387.56	0.108
383.44	0.010	385.52	0.060	387.60	0.109
383.48	0.011	385.56	0.060	387.64	0.110
383.52	0.012	385.60	0.061	387.68	0.111
383.56	0.013	385.64	0.062	387.72	0.111
383.60	0.014	385.68	0.063	387.76	0.112
383.64	0.015	385.72	0.064	387.80	0.113
383.68	0.016	385.76	0.065	387.84	0.114
383.72	0.017	385.80	0.066	387.88	0.115
383.76	0.018	385.84	0.067	387.92	0.116
383.80	0.019	385.88	0.068	387.96	0.117
383.84	0.020	385.92	0.069	388.00	0.118
383.88	0.021	385.96	0.070	388.04	0.119
383.92	0.022	386.00	0.071	388.08	0.120
383.96	0.023	386.04	0.072	388.12	0.121
384.00	0.024	386.08	0.073	388.16	0.122
384.04	0.025	386.12	0.074	388.20	0.123
384.08	0.026	386.16	0.075	388.24	0.124
384.12	0.026	386.20	0.076	388.28	0.125
384.16	0.027	386.24	0.077	388.32	0.126
384.20	0.028	386.28	0.077	388.36	0.127
384.24	0.029	386.32	0.078	388.40	0.128
384.28	0.030	386.36	0.079	388.44	0.129
384.32	0.031	386.40	0.080	388.48	0.129
384.36	0.032	386.44	0.081	388.52	0.130
384.40	0.033	386.48	0.082	388.56	0.131
384.44	0.034	386.52	0.083	388.60	0.131
384.48	0.035	386.56	0.084	388.64	0.132
384.52	0.036	386.60	0.085	388.68	0.132
384.56	0.037	386.64	0.086	388.72	0.133
384.60	0.038	386.68	0.087	388.76	0.133
384.64	0.039	386.72	0.088	388.80	0.134
384.68	0.040	386.76	0.089	388.84	0.134
384.72	0.041	386.80	0.090	388.88	0.135
384.76	0.042	386.84	0.091	388.92	0.135
384.80	0.043	386.88	0.092	388.96	0.136
384.84	0.043	386.92	0.093	389.00	0.136
384.88	0.044	386.96	0.094	389.04	0.137
384.92	0.045	387.00	0.094	389.08	0.137
384.96	0.046	387.04	0.095	389.12	0.138
385.00	0.047	387.08	0.096	389.16	<b>0.138</b>
385.04	0.048	387.12	0.097		



## B- Post-development Drainage

Precip.net 24-hr S1 1-yr Rainfall=2.78"

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Page 7

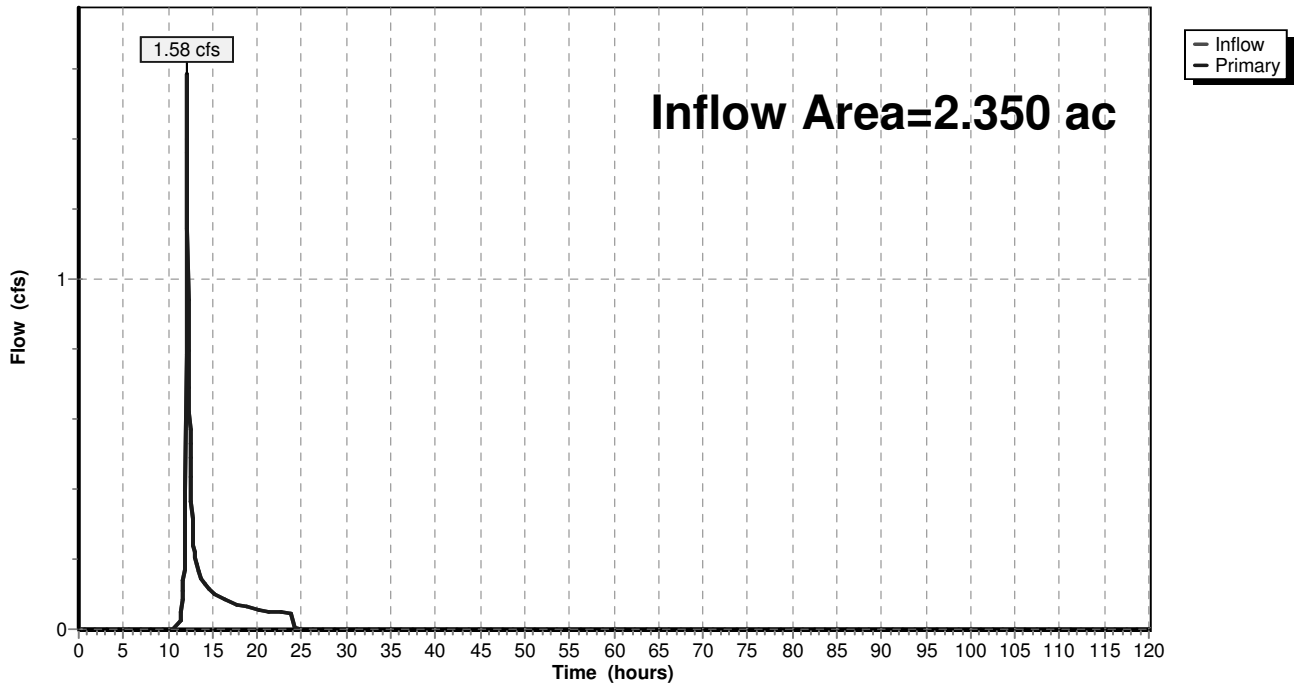
### Summary for Link DP 2: Design Point 2

Inflow Area = 2.350 ac, 12.77% Impervious, Inflow Depth = 0.69" for 1-yr event  
Inflow = 1.58 cfs @ 12.10 hrs, Volume= 0.134 af  
Primary = 1.58 cfs @ 12.10 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

### Link DP 2: Design Point 2

Hydrograph





## B- Post-development Drainage

Precip.net 24-hr S1 10-yr Rainfall=5.12"

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### Summary for Subcatchment 2.1S:

Runoff = 1.25 cfs @ 12.04 hrs, Volume= 0.101 af, Depth= 4.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Precip.net 24-hr S1 10-yr Rainfall=5.12"

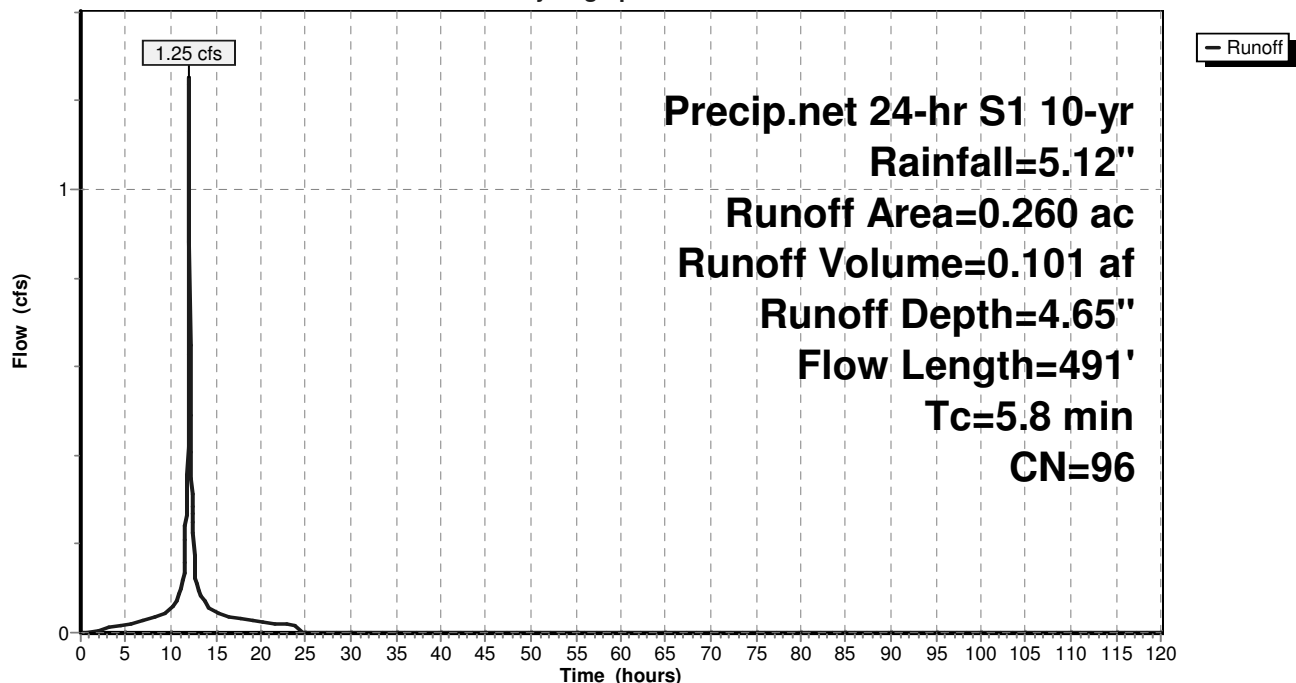
Area (ac)	CN	Description
0.240	98	Paved parking, HSG D
0.020	74	>75% Grass cover, Good, HSG C
0.260	96	Weighted Average
0.020		7.69% Pervious Area
0.240		92.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	47	0.0200	0.15		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.40"
0.3	150	0.0590	7.52	1.48	<b>Pipe Channel,</b> 6.0" Round Area= 0.2 sf Perim= 1.6' r= 0.13' n= 0.012
0.3	294	0.0950	15.15	11.90	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
5.8	491	Total			

### Subcatchment 2.1S:

Hydrograph





## B- Post-development Drainage

Precip.net 24-hr S1 10-yr Rainfall=5.12"

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### Summary for Subcatchment 2.2S:

Runoff = 4.91 cfs @ 12.09 hrs, Volume= 0.429 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Precip.net 24-hr S1 10-yr Rainfall=5.12"

Area (ac)	CN	Description
1.730	74	>75% Grass cover, Good, HSG C
0.300	70	Woods, Good, HSG C
0.060	98	Paved parking, HSG D
2.090	74	Weighted Average
2.030		97.13% Pervious Area
0.060		2.87% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.0350	0.22		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.40"
1.4	177	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	25	0.3000	8.22		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.1	50	0.0800	8.04	24.13	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=1.00' D=1.00' Z= 2.0 '/' Top.W=5.00' n= 0.035 Earth, dense weeds
0.1	67	0.0300	8.51	6.69	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
0.1	38	0.0180	7.65	9.39	<b>Pipe Channel,</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
0.3	167	0.0240	8.83	10.84	<b>Pipe Channel,</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
9.7	624	Total			



**B- Post-development Drainage**

Precip.net 24-hr S1 10-yr Rainfall=5.12"

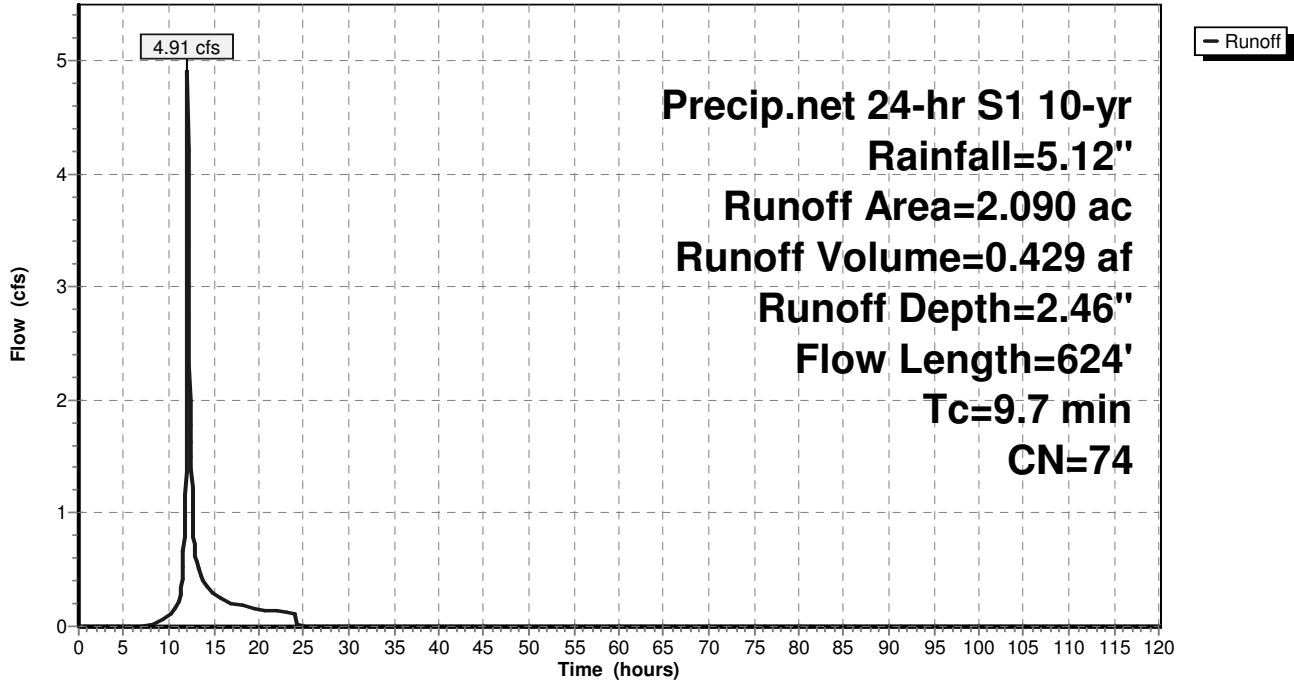
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Page 10

**Subcatchment 2.2S:**

Hydrograph





## B- Post-development Drainage

Precip.net 24-hr S1 10-yr Rainfall=5.12"

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### Summary for Pond 2.1P:

Inflow Area = 0.260 ac, 92.31% Impervious, Inflow Depth = 4.65" for 10-yr event  
 Inflow = 1.25 cfs @ 12.04 hrs, Volume= 0.101 af  
 Outflow = 0.13 cfs @ 12.72 hrs, Volume= 0.042 af, Atten= 90%, Lag= 40.8 min  
 Primary = 0.13 cfs @ 12.72 hrs, Volume= 0.042 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs / 2  
 Peak Elev= 385.72' @ 12.72 hrs Surf.Area= 0.024 ac Storage= 0.064 af

Plug-Flow detention time= 427.4 min calculated for 0.042 af (41% of inflow)  
 Center-of-Mass det. time= 251.8 min ( 1,017.1 - 765.3 )

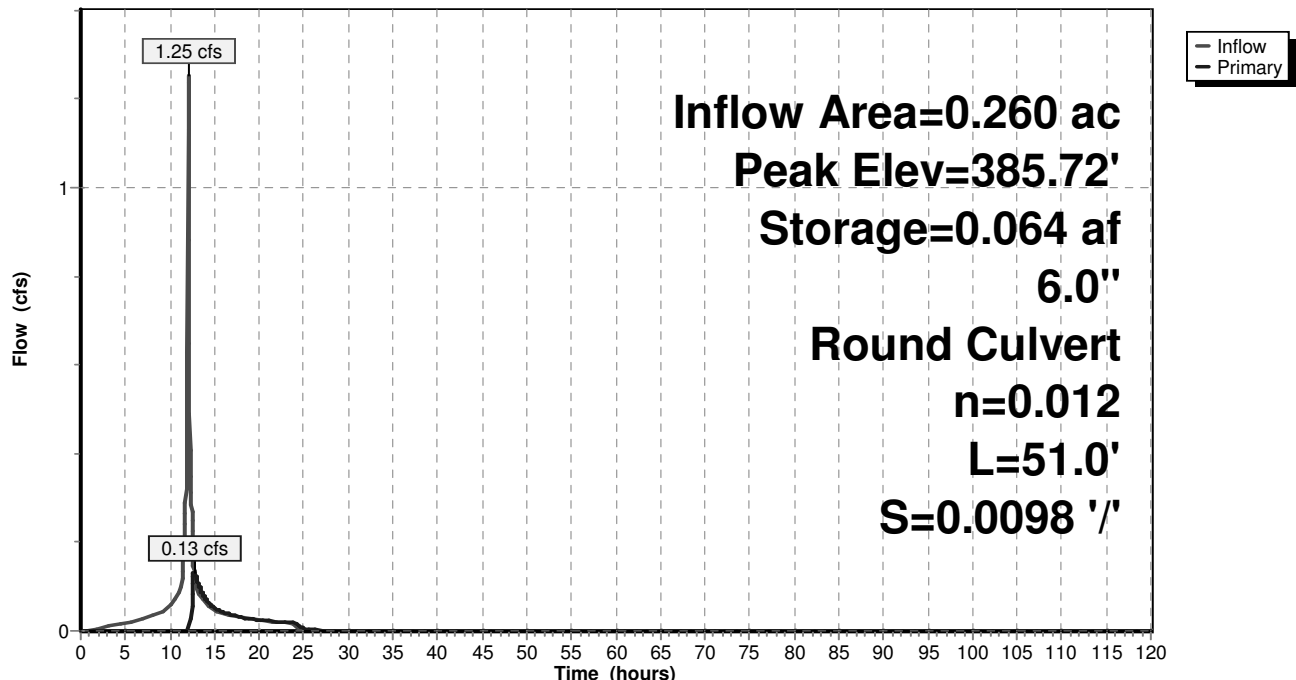
Volume	Invert	Avail.Storage	Storage Description
#1	383.00'	0.078 af	<b>6.00'W x 11.50'L x 6.16'H Prismaoid</b> x 8
#2	383.00'	0.060 af	<b>6.00'W x 13.25'L x 5.50'H Prismaoid</b> x 6
		0.138 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	385.50'	<b>6.0" Round Culvert</b> L= 51.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 385.50' / 385.00' S= 0.0098 '/' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf

**Primary OutFlow** Max=0.13 cfs @ 12.72 hrs HW=385.72' TW=0.00' (Dynamic Tailwater)  
 ↑1=Culvert (Barrel Controls 0.13 cfs @ 2.32 fps)

### Pond 2.1P:

Hydrograph





**B- Post-development Drainage***Precip.net 24-hr S1 10-yr Rainfall=5.12"*

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Page 12

**Stage-Area-Storage for Pond 2.1P:**

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
383.00	0.000	385.08	0.049	387.16	0.098
383.04	0.001	385.12	0.050	387.20	0.099
383.08	0.002	385.16	0.051	387.24	0.100
383.12	0.003	385.20	0.052	387.28	0.101
383.16	0.004	385.24	0.053	387.32	0.102
383.20	0.005	385.28	0.054	387.36	0.103
383.24	0.006	385.32	0.055	387.40	0.104
383.28	0.007	385.36	0.056	387.44	0.105
383.32	0.008	385.40	0.057	387.48	0.106
383.36	0.009	385.44	0.058	387.52	0.107
383.40	0.009	385.48	0.059	387.56	0.108
383.44	0.010	385.52	0.060	387.60	0.109
383.48	0.011	385.56	0.060	387.64	0.110
383.52	0.012	385.60	0.061	387.68	0.111
383.56	0.013	385.64	0.062	387.72	0.111
383.60	0.014	385.68	0.063	387.76	0.112
383.64	0.015	385.72	0.064	387.80	0.113
383.68	0.016	385.76	0.065	387.84	0.114
383.72	0.017	385.80	0.066	387.88	0.115
383.76	0.018	385.84	0.067	387.92	0.116
383.80	0.019	385.88	0.068	387.96	0.117
383.84	0.020	385.92	0.069	388.00	0.118
383.88	0.021	385.96	0.070	388.04	0.119
383.92	0.022	386.00	0.071	388.08	0.120
383.96	0.023	386.04	0.072	388.12	0.121
384.00	0.024	386.08	0.073	388.16	0.122
384.04	0.025	386.12	0.074	388.20	0.123
384.08	0.026	386.16	0.075	388.24	0.124
384.12	0.026	386.20	0.076	388.28	0.125
384.16	0.027	386.24	0.077	388.32	0.126
384.20	0.028	386.28	0.077	388.36	0.127
384.24	0.029	386.32	0.078	388.40	0.128
384.28	0.030	386.36	0.079	388.44	0.129
384.32	0.031	386.40	0.080	388.48	0.129
384.36	0.032	386.44	0.081	388.52	0.130
384.40	0.033	386.48	0.082	388.56	0.131
384.44	0.034	386.52	0.083	388.60	0.131
384.48	0.035	386.56	0.084	388.64	0.132
384.52	0.036	386.60	0.085	388.68	0.132
384.56	0.037	386.64	0.086	388.72	0.133
384.60	0.038	386.68	0.087	388.76	0.133
384.64	0.039	386.72	0.088	388.80	0.134
384.68	0.040	386.76	0.089	388.84	0.134
384.72	0.041	386.80	0.090	388.88	0.135
384.76	0.042	386.84	0.091	388.92	0.135
384.80	0.043	386.88	0.092	388.96	0.136
384.84	0.043	386.92	0.093	389.00	0.136
384.88	0.044	386.96	0.094	389.04	0.137
384.92	0.045	387.00	0.094	389.08	0.137
384.96	0.046	387.04	0.095	389.12	0.138
385.00	0.047	387.08	0.096	389.16	<b>0.138</b>
385.04	0.048	387.12	0.097		



## B- Post-development Drainage

Precip.net 24-hr S1 10-yr Rainfall=5.12"

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Page 13

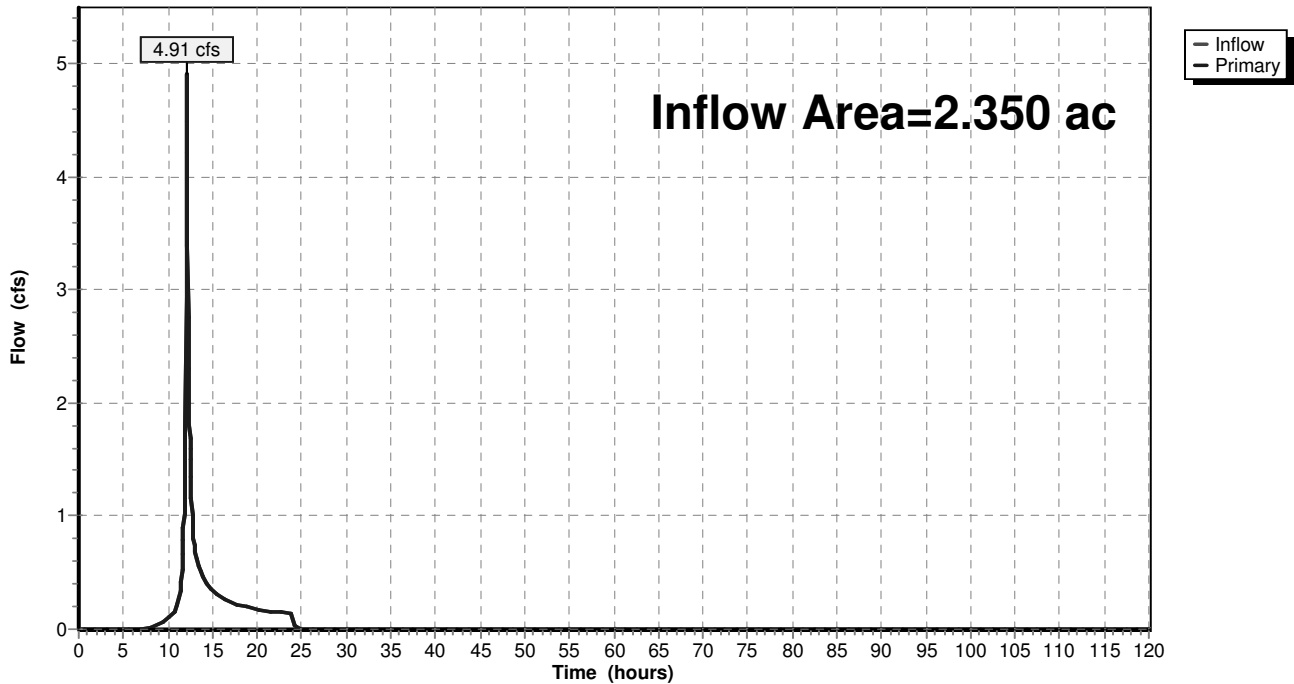
### Summary for Link DP 2: Design Point 2

Inflow Area = 2.350 ac, 12.77% Impervious, Inflow Depth = 2.40" for 10-yr event  
Inflow = 4.91 cfs @ 12.09 hrs, Volume= 0.470 af  
Primary = 4.91 cfs @ 12.09 hrs, Volume= 0.470 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

### Link DP 2: Design Point 2

Hydrograph





## B- Post-development Drainage

Precip.net 24-hr S1 100-yr Rainfall=9.29"

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### Summary for Subcatchment 2.1S:

Runoff = 1.96 cfs @ 12.04 hrs, Volume= 0.191 af, Depth= 8.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Precip.net 24-hr S1 100-yr Rainfall=9.29"

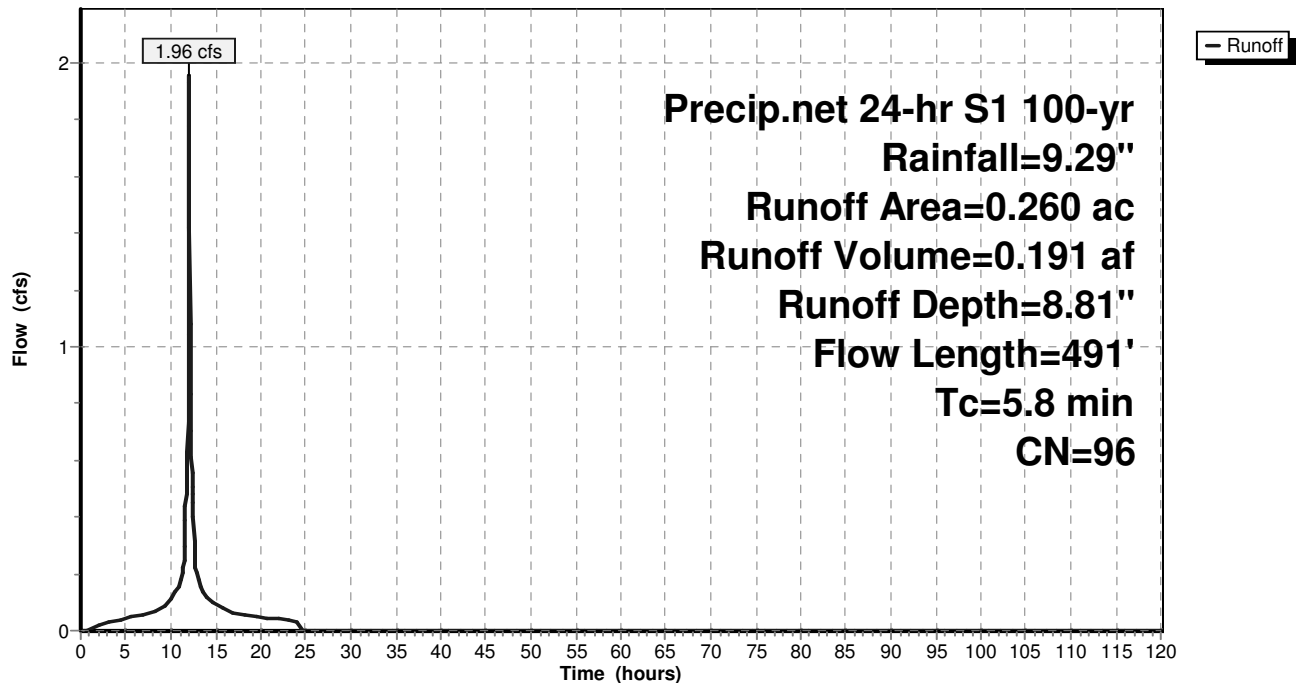
Area (ac)	CN	Description
0.240	98	Paved parking, HSG D
0.020	74	>75% Grass cover, Good, HSG C
0.260	96	Weighted Average
0.020		7.69% Pervious Area
0.240		92.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	47	0.0200	0.15		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.40"
0.3	150	0.0590	7.52	1.48	<b>Pipe Channel,</b> 6.0" Round Area= 0.2 sf Perim= 1.6' r= 0.13' n= 0.012
0.3	294	0.0950	15.15	11.90	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
5.8	491	Total			

### Subcatchment 2.1S:

Hydrograph





## B- Post-development Drainage

Precip.net 24-hr S1 100-yr Rainfall=9.29"

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### Summary for Subcatchment 2.2S:

Runoff = 10.48 cfs @ 12.09 hrs, Volume= 1.061 af, Depth= 6.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Precip.net 24-hr S1 100-yr Rainfall=9.29"

Area (ac)	CN	Description
1.730	74	>75% Grass cover, Good, HSG C
0.300	70	Woods, Good, HSG C
0.060	98	Paved parking, HSG D
2.090	74	Weighted Average
2.030		97.13% Pervious Area
0.060		2.87% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.0350	0.22		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.40"
1.4	177	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	25	0.3000	8.22		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.1	50	0.0800	8.04	24.13	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=1.00' D=1.00' Z= 2.0 '/' Top.W=5.00' n= 0.035 Earth, dense weeds
0.1	67	0.0300	8.51	6.69	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
0.1	38	0.0180	7.65	9.39	<b>Pipe Channel,</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
0.3	167	0.0240	8.83	10.84	<b>Pipe Channel,</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
9.7	624	Total			



**B- Post-development Drainage**

Precip.net 24-hr S1 100-yr Rainfall=9.29"

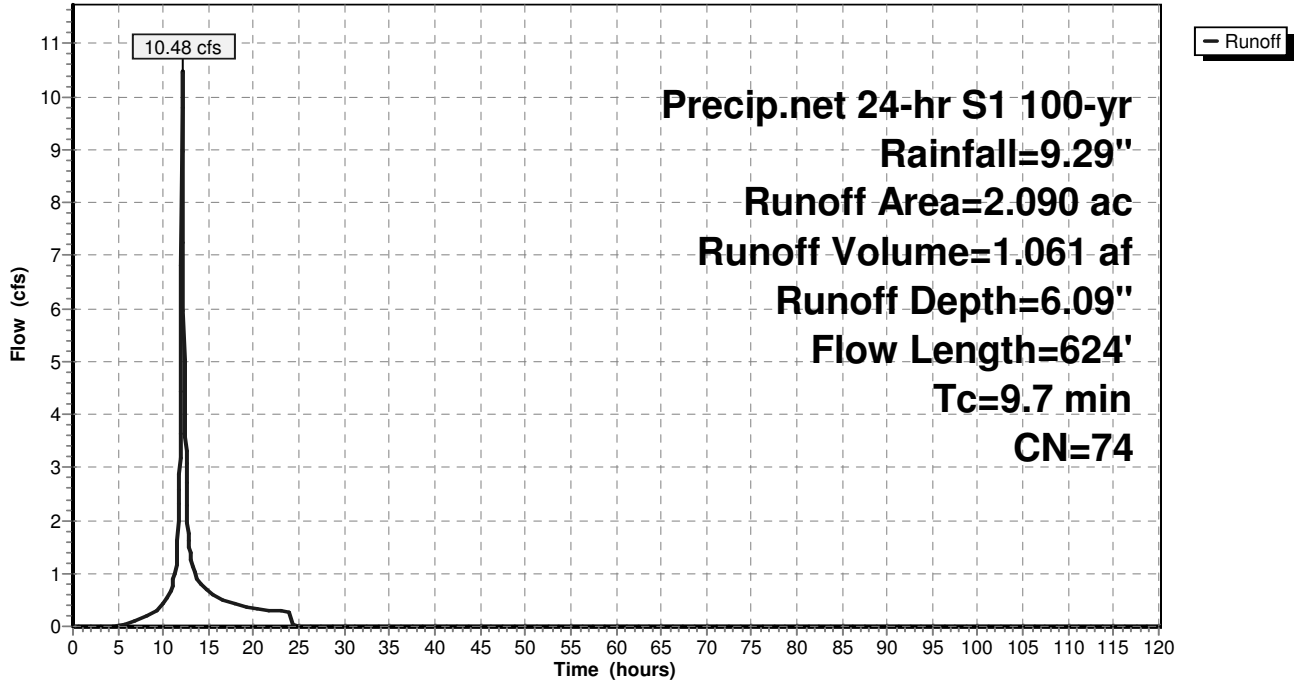
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Page 16

**Subcatchment 2.2S:**

Hydrograph





## B- Post-development Drainage

Precip.net 24-hr S1 100-yr Rainfall=9.29"

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### Summary for Pond 2.1P:

Inflow Area = 0.260 ac, 92.31% Impervious, Inflow Depth = 8.81" for 100-yr event  
 Inflow = 1.96 cfs @ 12.04 hrs, Volume= 0.191 af  
 Outflow = 0.76 cfs @ 12.23 hrs, Volume= 0.132 af, Atten= 61%, Lag= 11.4 min  
 Primary = 0.76 cfs @ 12.23 hrs, Volume= 0.132 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs / 2  
 Peak Elev= 386.66' @ 12.23 hrs Surf.Area= 0.024 ac Storage= 0.086 af

Plug-Flow detention time= 275.4 min calculated for 0.132 af (69% of inflow)  
 Center-of-Mass det. time= 148.4 min ( 899.8 - 751.4 )

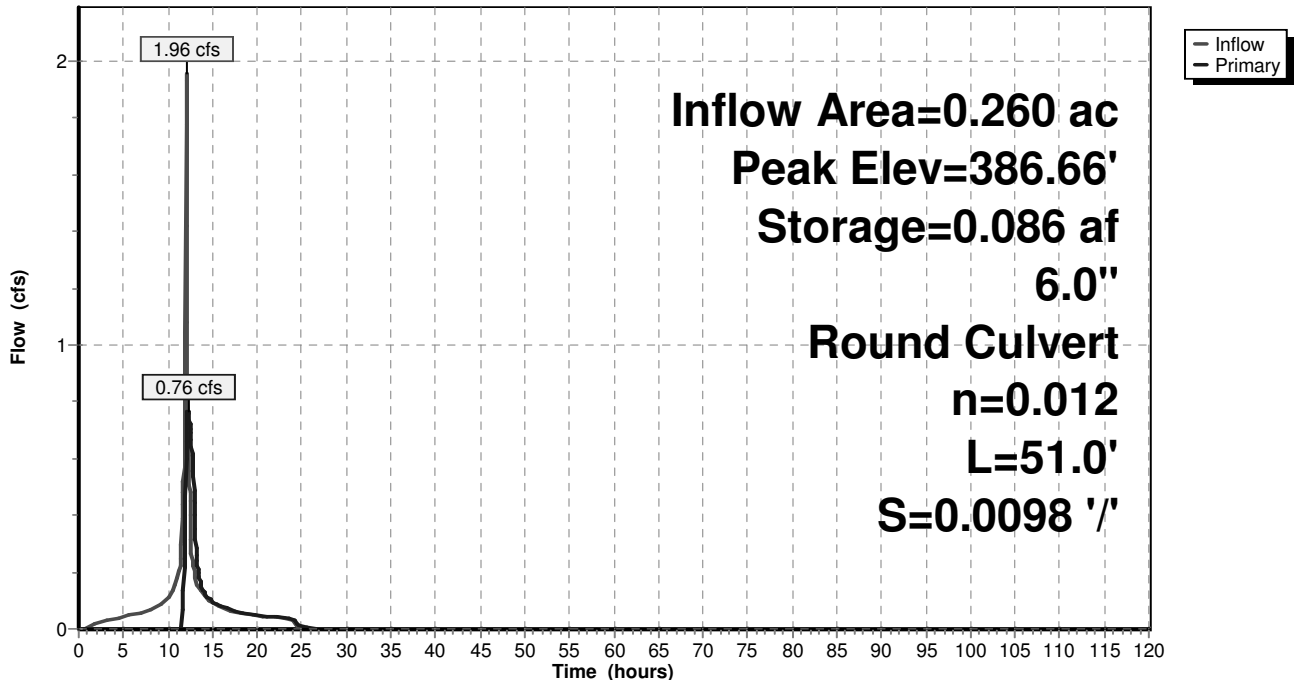
Volume	Invert	Avail.Storage	Storage Description
#1	383.00'	0.078 af	<b>6.00'W x 11.50'L x 6.16'H Prismaoid</b> x 8
#2	383.00'	0.060 af	<b>6.00'W x 13.25'L x 5.50'H Prismaoid</b> x 6
		0.138 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	385.50'	<b>6.0" Round Culvert</b> L= 51.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 385.50' / 385.00' S= 0.0098 '/' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf

**Primary OutFlow** Max=0.76 cfs @ 12.23 hrs HW=386.66' TW=0.00' (Dynamic Tailwater)  
 ↑1=Culvert (Barrel Controls 0.76 cfs @ 3.89 fps)

### Pond 2.1P:

Hydrograph





**B- Post-development Drainage***Precip.net 24-hr S1 100-yr Rainfall=9.29"*

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Page 18

**Stage-Area-Storage for Pond 2.1P:**

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
383.00	0.000	385.08	0.049	387.16	0.098
383.04	0.001	385.12	0.050	387.20	0.099
383.08	0.002	385.16	0.051	387.24	0.100
383.12	0.003	385.20	0.052	387.28	0.101
383.16	0.004	385.24	0.053	387.32	0.102
383.20	0.005	385.28	0.054	387.36	0.103
383.24	0.006	385.32	0.055	387.40	0.104
383.28	0.007	385.36	0.056	387.44	0.105
383.32	0.008	385.40	0.057	387.48	0.106
383.36	0.009	385.44	0.058	387.52	0.107
383.40	0.009	385.48	0.059	387.56	0.108
383.44	0.010	385.52	0.060	387.60	0.109
383.48	0.011	385.56	0.060	387.64	0.110
383.52	0.012	385.60	0.061	387.68	0.111
383.56	0.013	385.64	0.062	387.72	0.111
383.60	0.014	385.68	0.063	387.76	0.112
383.64	0.015	385.72	0.064	387.80	0.113
383.68	0.016	385.76	0.065	387.84	0.114
383.72	0.017	385.80	0.066	387.88	0.115
383.76	0.018	385.84	0.067	387.92	0.116
383.80	0.019	385.88	0.068	387.96	0.117
383.84	0.020	385.92	0.069	388.00	0.118
383.88	0.021	385.96	0.070	388.04	0.119
383.92	0.022	386.00	0.071	388.08	0.120
383.96	0.023	386.04	0.072	388.12	0.121
384.00	0.024	386.08	0.073	388.16	0.122
384.04	0.025	386.12	0.074	388.20	0.123
384.08	0.026	386.16	0.075	388.24	0.124
384.12	0.026	386.20	0.076	388.28	0.125
384.16	0.027	386.24	0.077	388.32	0.126
384.20	0.028	386.28	0.077	388.36	0.127
384.24	0.029	386.32	0.078	388.40	0.128
384.28	0.030	386.36	0.079	388.44	0.129
384.32	0.031	386.40	0.080	388.48	0.129
384.36	0.032	386.44	0.081	388.52	0.130
384.40	0.033	386.48	0.082	388.56	0.131
384.44	0.034	386.52	0.083	388.60	0.131
384.48	0.035	386.56	0.084	388.64	0.132
384.52	0.036	386.60	0.085	388.68	0.132
384.56	0.037	386.64	0.086	388.72	0.133
384.60	0.038	386.68	0.087	388.76	0.133
384.64	0.039	386.72	0.088	388.80	0.134
384.68	0.040	386.76	0.089	388.84	0.134
384.72	0.041	386.80	0.090	388.88	0.135
384.76	0.042	386.84	0.091	388.92	0.135
384.80	0.043	386.88	0.092	388.96	0.136
384.84	0.043	386.92	0.093	389.00	0.136
384.88	0.044	386.96	0.094	389.04	0.137
384.92	0.045	387.00	0.094	389.08	0.137
384.96	0.046	387.04	0.095	389.12	0.138
385.00	0.047	387.08	0.096	389.16	<b>0.138</b>
385.04	0.048	387.12	0.097		



## B- Post-development Drainage

Precip.net 24-hr S1 100-yr Rainfall=9.29"

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Page 19

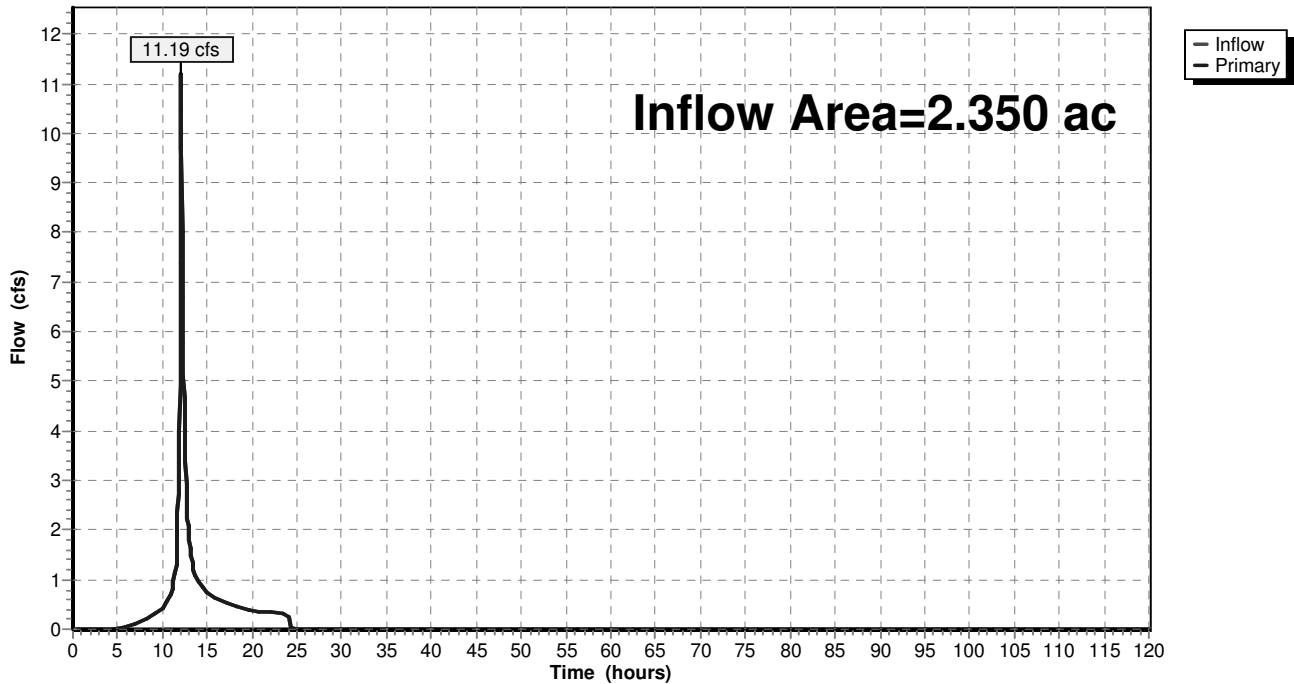
### Summary for Link DP 2: Design Point 2

Inflow Area = 2.350 ac, 12.77% Impervious, Inflow Depth = 6.09" for 100-yr event  
Inflow = 11.19 cfs @ 12.09 hrs, Volume= 1.193 af  
Primary = 11.19 cfs @ 12.09 hrs, Volume= 1.193 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

### Link DP 2: Design Point 2

Hydrograph





**ATTACHMENT C**  
**Revised Pipe Sizing Calculations**





**DRAINAGE SYSTEM CALCULATIONS**

Design Storm: 100-Year

**PROJECT: Stahmer Subdivision**

**JOB NUMBER: 16140.100**

BY: JWM

DATE: 4-28-21

CHK: RDW

DATE: 4-28-21

STRUCTURE		IMPERVIOUS AREA			PERVIOUS AREA			CA	TIME OF CONC. (min.)			I	Q (cfs)		PIPE DESIGN				
FROM	TO	A (ac.)	C	CA	A (ac.)	C	CA		INLET	PIPE	TOTAL		DESIGN	CAP.	V(ft/s)	n	s (%)	L (ft)	DIA (in)
YD 8	DI 7	0.02	0.9	0.02	0.02	0.3	0.01	0.03	6	-	6	8.9	0.3	1.5	5.7	0.012	5.9	150	6
DI 7	CB 6	0.14	0.9	0.13	0.00	0.3	0.00	0.17	<6	-	6	8.9	1.5	12.0	10.5	0.012	9.6	120	12
CB 6	CB 5	0.04	0.9	0.04	0.00	0.3	0.00	0.21	<6	-	6	8.9	1.9	11.1	10.6	0.012	8.3	123	12
CB 5	HDS 3A	0.04	0.9	0.04	0.00	0.3	0.00	0.25	<6	-	6	8.9	2.2	13.7	12.9	0.012	12.6	19	12
HDS 3A	SMP 2.1	0.00	0.9	0.00	0.00	0.3	0.00	0.27	<6	-	6	8.9	2.4	13.6	13.1	0.012	12.4	25	12
DI 7A	DI 7	0.01	0.9	0.01	0.00	0.3	0.00	0.01	<6	-	6	8.9	0.1	0.6	2.2	0.012	1.0	210	6
DI 4	DI 3	0.00	0.9	0.00	1.00	0.3	0.30	0.30	9	-	9	8	2.4	6.7	7.8	0.012	3.0	67	12
DI 3	DMH 2	0.00	0.9	0.00	0.11	0.3	0.03	0.33	<9	-	9	8	2.6	9.4	6.6	0.012	1.8	38	15
DMH 2	DI 1	0.00	0.9	0.00	0.00	0.3	0.00	0.33	<9	-	9	8	2.6	10.8	7.3	0.012	2.4	167	15
DI 2B	HDS 3A	0.02	0.9	0.02	0.00	0.3	0.00	0.02	<6	-	6	8	0.2	0.5	2.4	0.012	0.8	36	6
SMP 2.1	DMH 2	Pipe Sized in HydroCAD																	



## ATTACHMENT D

### Hydrodynamic Separator Information

The proposed hydrodynamic separator for the project is sized to provide pretreatment for the 1-YR WQ<sub>v</sub> event. As the units are proposed to be used for pre-treatment, the units are sized based on the manufacturers water quality treatment flow rates. Included in this Attachment is a copy of the letter prepared by the New Jersey Department of Environmental Protection, which is utilized by the manufacturer to determine water quality treatment rates. This letter will serve as verification that the HydroStorm Hydrodynamic Separator is an approved practice based on the New Jersey Corporation for Advanced Technology (NJCAT) Standards.

Utilizing the calculated flows from Attachment B and the design criteria stated on the attached documents the appropriate model of hydrodynamic separator was determined as follows:

Hydrodynamic Separator ID	1-Year Peak Flow (cfs) <sup>1</sup>	Required Hydrodynamic Separator
HDS 3A	0.76	HS-4

1-year peak flows obtained from HydroCAD output provided in Attachment C.





## State of New Jersey

PHILIP D. MURPHY  
*Governor*

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Mail Code – 401-02B

CATHERINE R. McCABE  
*Acting Commissioner*

SHEILA Y. OLIVER  
*Lt. Governor*

Division of Water Quality  
Bureau of Nonpoint Pollution Control  
P.O. Box 420 – 401 E. State St.  
Trenton, NJ 08625-0420

Phone: (609) 633-7021 / Fax: (609) 777-0432

[http://www.state.nj.us/dep/dwq/bnpc\\_home.htm](http://www.state.nj.us/dep/dwq/bnpc_home.htm)

**March 27, 2018**

Graham Bryant, M.Sc., P.E.  
President  
Hydroworks, LLC  
136 Central Avenue  
Clark, NJ 07066

Re: MTD Lab Certification  
HydroStorm Hydrodynamic Separator by Hydroworks, LLC  
Online Installation

### **TSS Removal Rate 50%**

Dear Mr. Bryant:

The Stormwater Management rules under N.J.A.C. 7:8-5.5(b) and 5.7 (c) allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards at N.J.A.C. 7:8-5 if the pollutant removal rates have been verified by the New Jersey Corporation for Advanced Technology (NJCAT) and have been certified by the New Jersey Department of Environmental Protection (NJDEP). Hydroworks, LLC has requested an MTD Laboratory Certification for the Hydroworks HydroStorm Hydrodynamic Separator.

The project falls under the “Procedure for Obtaining Verification of a Stormwater Manufactured Treatment Device from New Jersey Corporation for Advance Technology” dated January 25, 2013. The applicable protocol is the “New Jersey Laboratory Testing Protocol to Assess Total Suspended Solids Removal by a Hydrodynamic Sedimentation Manufactured Treatment Device” dated January 25, 2013.

NJCAT verification documents submitted to the NJDEP indicate that the requirements of the aforementioned protocol have been met or exceeded. The NJCAT letter also included a recommended certification TSS removal rate and the required maintenance plan. The NJCAT Verification Report with the Verification Appendix (dated February 2018) for this device is published online at <http://www.njcat.org/verification-process/technology-verification-database.html>.

**The NJDEP certifies the use of the HydroStorm by Hydroworks, LLC at a TSS removal rate of 50% when designed, operated, and maintained in accordance with the information provided in the Verification Appendix and the following conditions:**



1.  The maximum treatment flow rate (MTFR) for the manufactured treatment device (MTD) is calculated using the New Jersey Water Quality Design Storm (1.25 inches in 2 hrs) in N.J.A.C. 7:8-5.5.
2.  The HydroStorm shall be installed using the same configuration reviewed by NJCAT and shall be sized in accordance with the criteria specified in item 6 below.
3.  This HydroStorm cannot be used in series with another MTD or a media filter (such as a sand filter) to achieve an enhanced removal rate for total suspended solids (TSS) removal under N.J.A.C. 7:8-5.5.
4.  Additional design criteria for MTDs can be found in Chapter 9.6 of the New Jersey Stormwater Best Management Practices (NJ Stormwater BMP) Manual, which can be found online at [www.njstormwater.org](http://www.njstormwater.org).
5.  The maintenance plan for a site using this device shall incorporate, at a minimum, the maintenance requirements for the Hydrostorm. A copy of the maintenance plan is attached to this certification. However, it is recommended to review the maintenance website at <http://www.hydroworks.com/hydrostormo&m.pdf> for any changes to the maintenance requirements.
6.  Sizing Requirement:

The example below demonstrates the sizing procedure for the Hydrostorm:

Example:        A 0.25-acre impervious site is to be treated to 50% TSS removal using a HydroStorm. The impervious site runoff (Q) based on the New Jersey Water Quality Design Storm was determined to be 0.79 cfs.

Maximum Treatment Flow Rate (MTFR) Evaluation:

The site runoff (Q) was based on the following:

- time of concentration = 10 minutes
- i = 3.2 in/hr (page 5-8, Fig. 5-3 of the NJ Stormwater BMP Manual)
- c = 0.99 (runoff coefficient for impervious)
- $Q = ciA = 0.99 \times 3.2 \times 0.25 = 0.79 \text{ cfs}$

Given the site runoff is 0.79 cfs and based on Table 1 below, the HydroStorm Model HS4 with a MTFR of 0.88 cfs could be used for this site to remove 50% of the TSS from the impervious area without exceeding the MTFR.

The sizing table corresponding to the available system models is noted below. Additional specifications regarding each model can be found in the Verification Appendix under Table A-1.



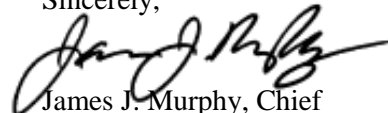
**Table 1 HydroStorm Sizing Information**

<b>HydroStorm Model</b>	<b>NJDEP 50% TSS Maximum Treatment Flow Rate (cfs)</b>	<b>Treatment Area (ft<sup>2</sup>)</b>	<b>Hydraulic Loading Rate (gpm/ft<sup>2</sup>)</b>	<b>50% Maximum Sediment Storage (ft<sup>3</sup>)</b>
HS3	0.50	7.1	31.4	3.6
HS4	0.88	12.6	31.4	6.3
HS5	1.37	19.6	31.4	9.8
HS6	1.98	28.3	31.4	14.2
HS7	2.69	38.5	31.4	19.3
HS8	3.52	50.3	31.4	25.2
HS9	4.45	63.6	31.4	31.8
HS10	5.49	78.5	31.4	39.3
HS11	6.65	95.0	31.4	47.5
HS12	7.91	113.0	31.4	56.5

A detailed maintenance plan is mandatory for any project with a Stormwater BMP subject to the Stormwater Management Rules, N.J.A.C. 7:8. The plan must include all of the items identified in the Stormwater Management Rules, N.J.A.C. 7:8-5.8. Such items include, but are not limited to, the list of inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional information can be found in Chapter 8: Maintenance and Retrofit of Stormwater Management Measures.

If you have any questions regarding the above information, please contact Brian Salvo or Nick Grotts of my office at (609) 633-7021.

Sincerely,



James J. Murphy, Chief  
Bureau of Nonpoint Pollution Control

Attachment: Maintenance Plan

cc: Chron File  
Richard Magee, NJCAT  
Vince Mazzei, NJDEP - DLUR  
Ravi Patraju, NJDEP - BES  
Gabriel Mahon, NJDEP - BNPC  
Brian Salvo, NJDEP – BNPC  
Nick Grotts, NJDEP – BNPC







## **Introduction**

Hydroworks® HydroStorm is a powerful tool for simulating and analyzing the hydrodynamic behavior of coastal structures and systems. This document provides an overview of the software's capabilities and features.

The software is designed to be user-friendly and efficient, allowing users to quickly set up and run simulations. It includes a comprehensive set of tools for data input, model setup, and result visualization.

Key features of Hydroworks® HydroStorm include:

- Advanced hydrodynamic modeling capabilities
- Flexible and customizable simulation environments
- Robust and reliable numerical solvers
- Comprehensive data analysis and reporting tools

## **Hydroworks® HydroStorm Operation**

This section details the operational procedures for using Hydroworks® HydroStorm. It covers the steps from initial setup to final simulation results.

The software is installed on a Windows operating system. The installation process is straightforward and includes all necessary components for running the software.

Before running a simulation, users must define the geometry of the structure and the hydrodynamic parameters. This is done through the software's graphical user interface (GUI).

The simulation process involves solving the governing equations of fluid flow. The software uses a finite element method (FEM) for discretizing the domain and a time-stepping scheme for solving the equations.

Results are displayed in a variety of formats, including 2D and 3D plots, tables, and reports. Users can customize the output to meet their specific needs.

For more information on the software's operation, please refer to the user manual and the online help system.

















Frequency

Frequency is the number of cycles per second. It is measured in Hertz (Hz). The frequency of a wave is inversely proportional to its period. The frequency of a wave is also related to its energy. Higher frequency waves have higher energy. The frequency of a wave is also related to its wavelength. Higher frequency waves have shorter wavelengths. The frequency of a wave is also related to its speed. Higher frequency waves travel faster.

**Frequency**

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**Reporting**

Reporting is the process of providing information to a specific audience. It is a key part of many business and organizational processes. Reporting can be done in many ways, including written reports, presentations, and dashboards. Reporting is essential for making informed decisions and for communicating progress.

Reporting is the process of providing information to a specific audience.

2. Reporting is the process of providing information to a specific audience.

Reporting is the process of providing information to a specific audience.

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2. Reporting is the process of providing information to a specific audience.

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Standard Dimensions for HydroStorm Models
  

  
 The diameter of the storm model is denoted by R. The diameter of the storm model is 2 feet for HS-3, 4 feet for HS-4, 5 feet for HS-5, 6 feet for HS-6, 7 feet for HS-7, 8 feet for HS-8, 9 feet for HS-9, 10 feet for HS-10, 11 feet for HS-11, and 12 feet for HS-12. The total water depth is denoted by TWD. The sediment maintenance depth is denoted by SMD. The sediment maintenance depth is 1 foot for HS-3 through HS-10, 1 foot for HS-11, and 1 foot for HS-12. The sediment maintenance depth is 1 foot for HS-3 through HS-10, 1 foot for HS-11, and 1 foot for HS-12.

**Table 1 Standard Dimensions for Hydroworks HydroStorm Models**

Model	Diameter (ft)	Total Water Depth (ft)	Sediment Maintenance Depth for Table 1 Total Water Depth(ft)
HS-3	3	3	1
HS-4	4	4	1
HS-5	5	4	1
HS-6	6	4	1
HS-7	7	6	1
HS-8	8	7	1
HS-9	9	7.5	1
HS-10	10	8	1
HS-11	11	9	1
HS-12	12	9.5	1











Hydroworks, LLC

12345 Main Street  
Denver, CO 80202

Hydroworks, LLC ("Hydroworks") warrants that the Hydroworks product ("Product") will perform substantially in accordance with the published specifications for the Product. Hydroworks warrants that the Product will be free from defects in material and workmanship under normal use and service for a period of 24 months from the date of installation. This warranty is limited to the original purchaser of the Product and is not transferable.

Hydroworks warrants that the Product will be free from defects in material and workmanship under normal use and service for a period of 24 months from the date of installation. However, Hydroworks, LLC will not be obligated to repair or replace the Product if the defect is caused by misuse, abuse, or neglect, or if the Product has been modified or altered in any way. Hydroworks warrants that the Product will be free from defects in material and workmanship under normal use and service for a period of 24 months from the date of installation.

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## ATTACHMENT E

### Revised Stormwater Cistern (2.1P) Sizing Calculations

The following equation is for the sizing of the stormwater cistern:

Water Quality Volume (WQ<sub>v</sub>)

$$WQ_v = 0.051 \text{ acre-feet} = 2,222 \text{ cubic feet from Attachment C}$$

Required Storage Volume of Stormwater Cisterns:

$$V_f = (WQ_v \times 7.5 \text{ gal/c.f.})$$

The following applies for the detention system:

$$\begin{array}{ll} WQ_v & = 2,222 \text{ cf} \\ 7.5 \text{ gal/c.f.} & = \text{conversion factor} \end{array}$$

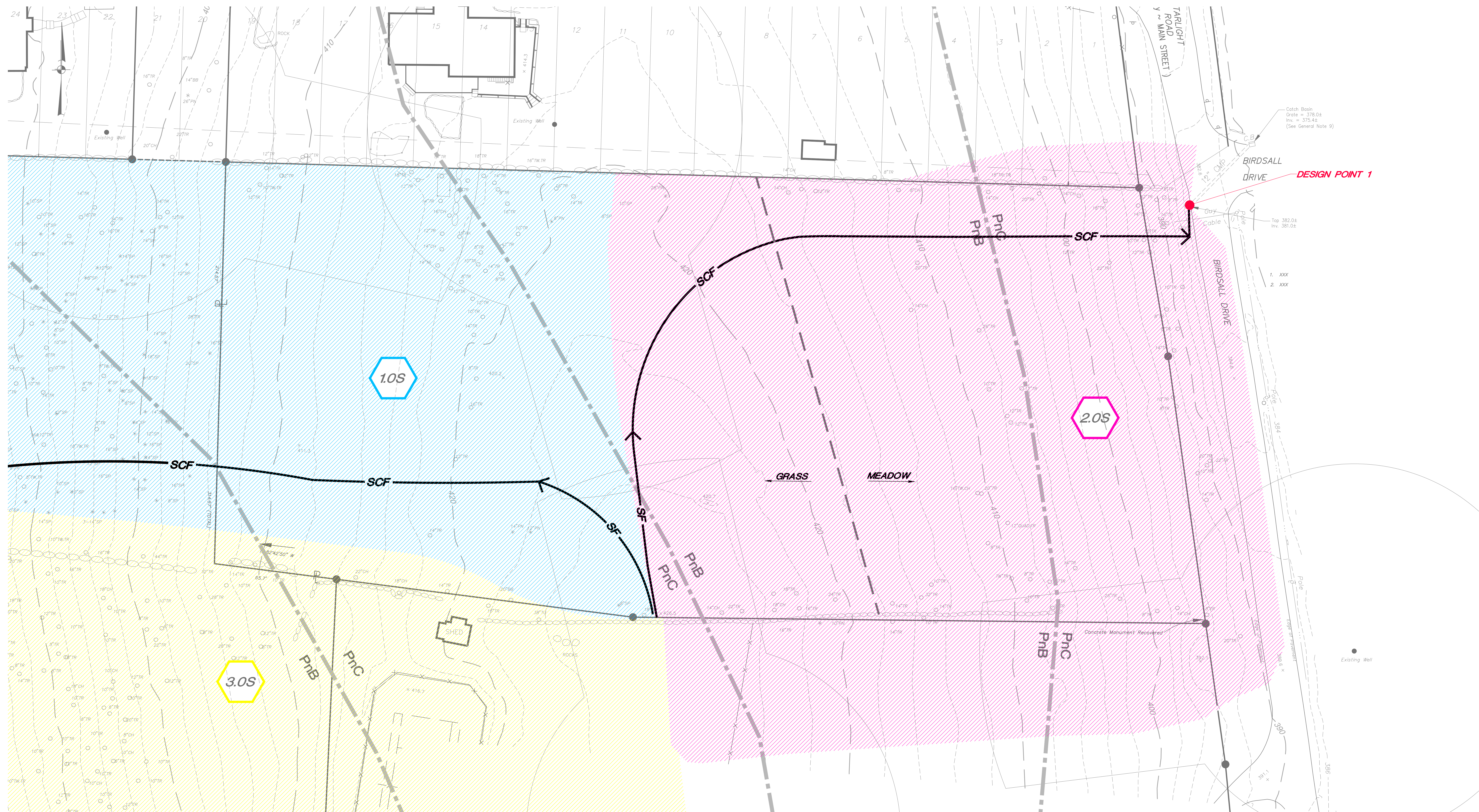
Therefore,

$$V_f = (2,222 \text{ c.f.})(7.5 \text{ gal/c.f.})$$

$$V_f = 16,665 \text{ gallons storage volume required}$$

The stormwater cistern shown on the project plans provides a volume of 19,275 gallons below the overflow pipe which is greater than the WQ<sub>v</sub> of 16,665 gallons. Therefore, the stormwater cistern has been sized in general accordance with the NYSDEC Design Manual. A pump and irrigation system will be provided to dewater the system every 2.5 days.





Catch Basin  
Grate = 378.0±  
Inv. = 375.44  
(See General Note 9)

Top 382.0±  
Inv. 381.0±

1. XXX  
2. XXX

- General Notes:**
- Property line and existing features shown hereon obtained from final plat subdivision of property prepared by Baxter Land Surveying dated 7-15-15.
  - Topography shown hereon is based upon aerial photogrammetry provided by Baxter Land Surveying. The contour interval is 2'.
  - Topography shown on N/F Robert Stahmer obtained from Westchester County GIS website.
  - The spot elevation that separates Subcatchment 1.0S, 2.0S and 3.0S along the existing stonewall was visually inspected and verified in the field.

**LEGEND**

**1.0S** Subcatchment

**CF** Existing Channel Section Modeled as Reach in HydroCAD

**SF** Time of Concentration Sheet Flow

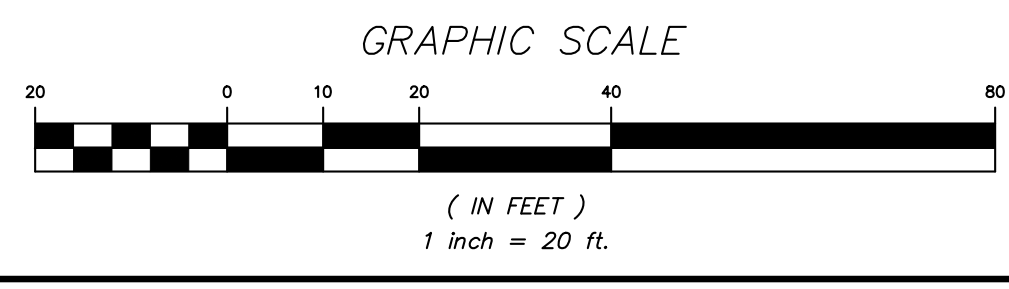
**SCF** Time of Concentration Shallow Concentrated Flow

**CF** Time of Concentration Channel Flow

**SOILS LEGEND**

SOILS	DESCRIPTION	HYDROLOGICAL GROUP
CuD	Chatfield-Halls-Rock outcrop complex, hilly	C
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	C
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	C

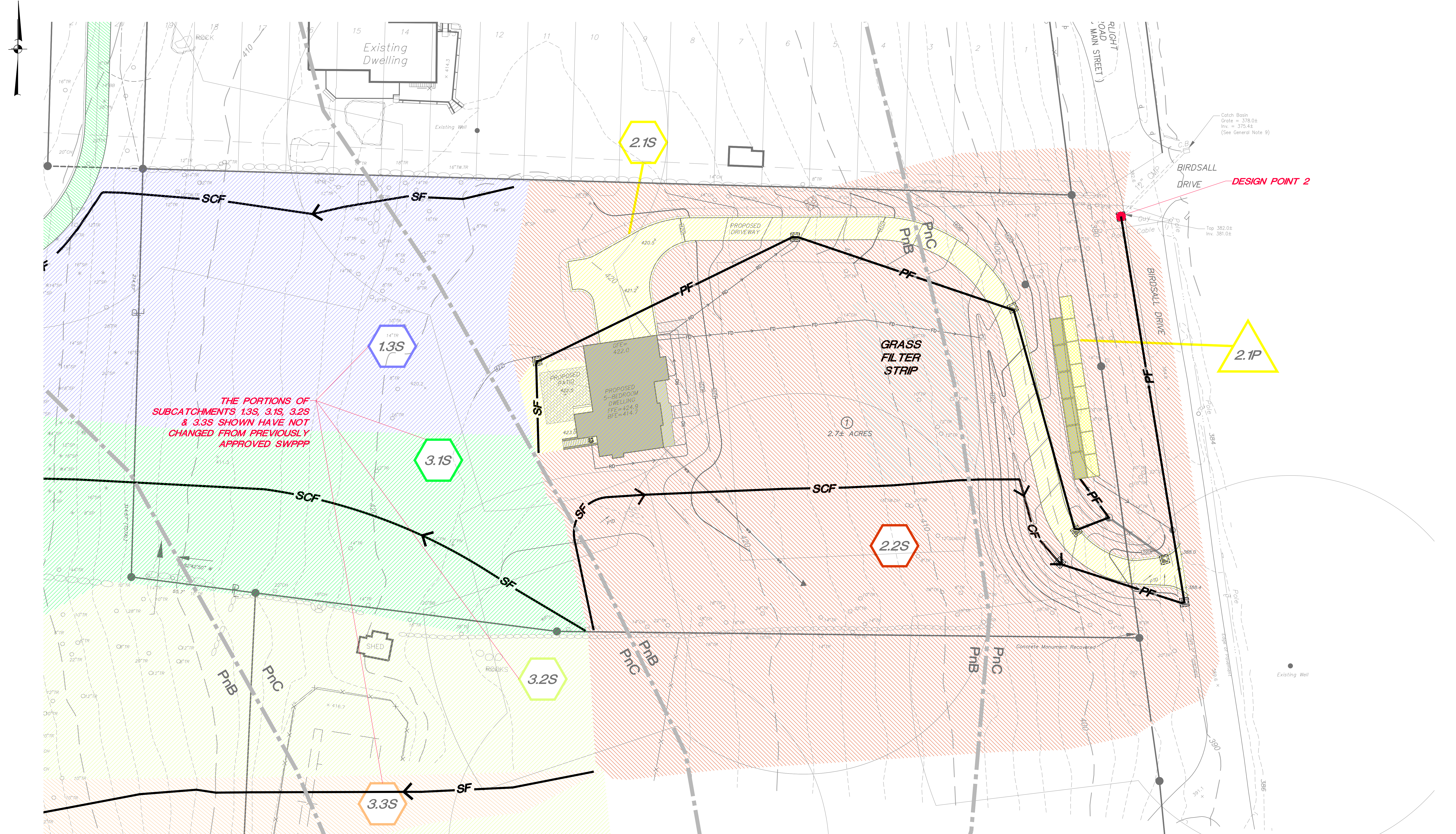
NO.	DATE	REVISION	BY
<b>PROJECT:</b> STAHER SUBDIVISION (LOT 1)			
<b>DRAWING:</b> PRE-DEVELOPMENT DRAINAGE MAP			
PROJECT NUMBER	20213.100	PROJECT MANAGER	R.D.W.
DATE	4-27-21	DRAWN BY	J.W.M.
SCALE	1" = 20'	CHECKED BY	R.D.W.
DRAWING NO.	2	SHEET	3



ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.

2:02022021 From 400 Internal Drive\stahmer\paxton\paxton.dwg - 4/28/2021 10:00 AM - jwmm



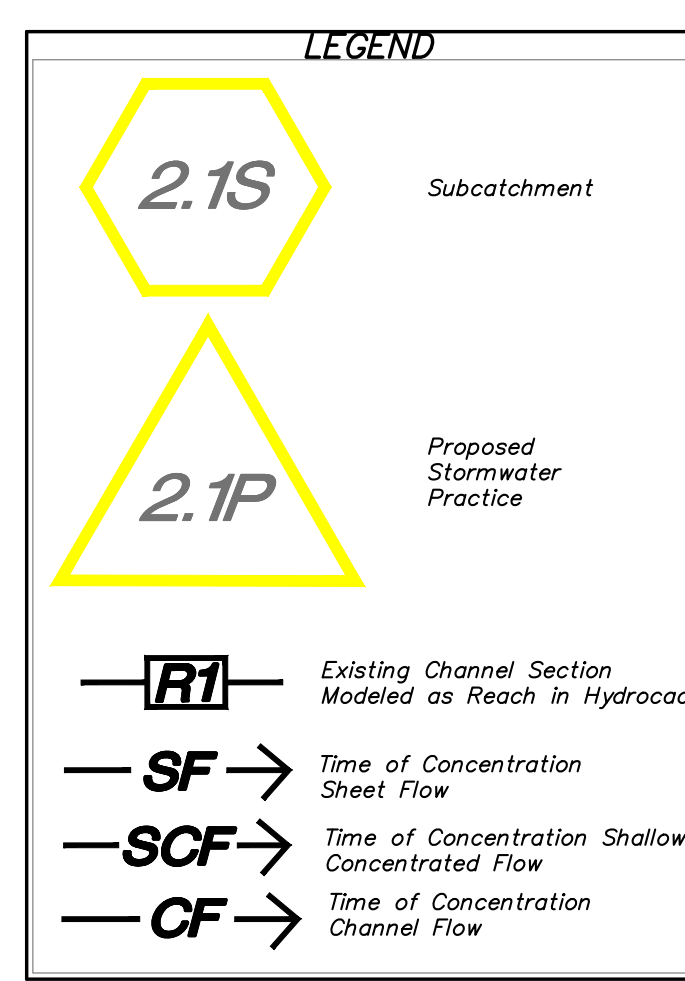


THE PORTIONS OF SUBCATCHMENTS 1.3S, 3.1S, 3.2S & 3.3S SHOWN HAVE NOT CHANGED FROM PREVIOUSLY APPROVED SWPPP

DESIGN POINT 2

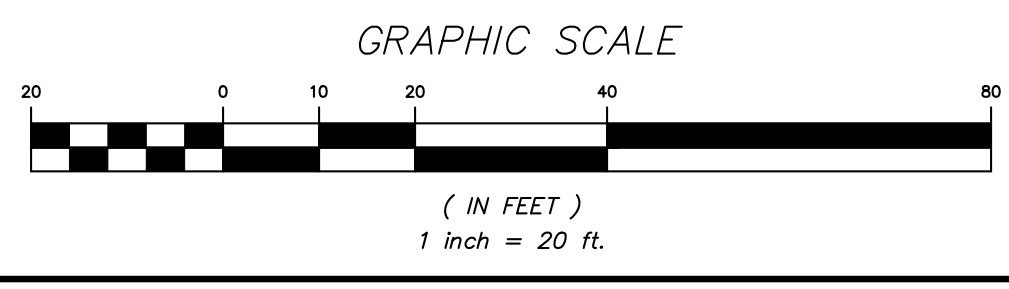
2.1P

- General Notes:**
1. Property line and existing features shown hereon obtained from final plat subdivision of property prepared by Baxter Land Surveying dated 7-13-15.
  2. Topography shown hereon is based upon aerial photogrammetry provided by Baxter Land Surveying. The contour interval is 2'.
  3. Topography shown on N/F Robert Stahmer obtained from Westchester County GIS website.
  4. The spot elevation that separates Subcatchment 2.2S, 3.1S and 3.2S along the existing stonewall was visually inspected and verified in the field.
  5. The onsite tributary areas associated with subcatchments 1.3S, 3.1S, 3.2S and 3.3S are consistent with what was shown on the approved SWPPP for the subdivision. The SWPPP only evaluates subcatchment 2.1S and 2.2S to demonstrate the revised house footprint and updated cistern (2.1P) still provide the required quality and quantity treatment.



**SOILS LEGEND**

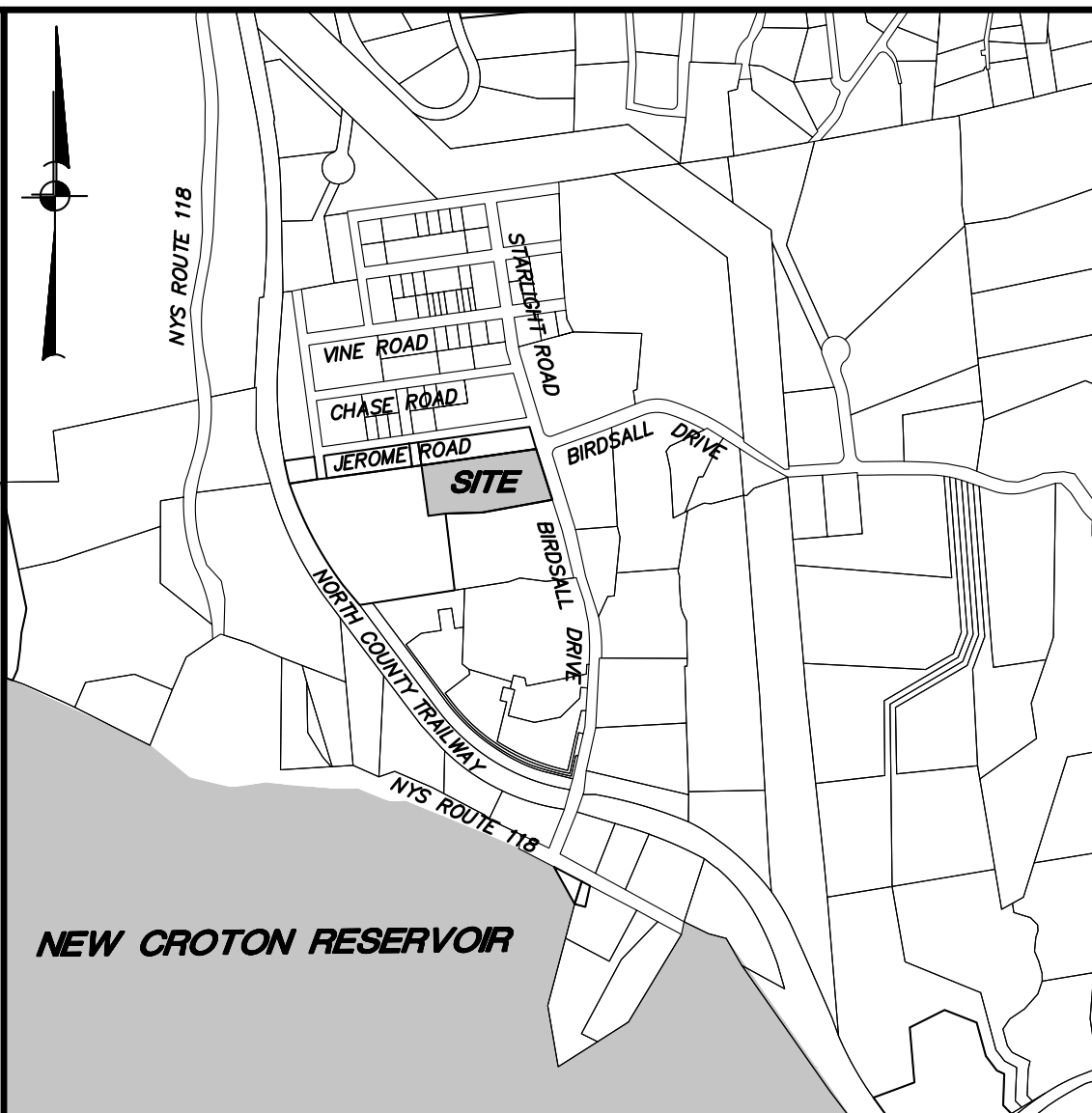
SOILS	DESCRIPTION	HYDROLOGICAL GROUP
CuD	Chatfield-Hollis-Rock outcrop complex, hilly	C
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	C
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	C



NO.	DATE	REVISION	BY
PROJECT:		STAHMER SUBDIVISION (LOT 1)	
DRAWING:		POST-DEVELOPMENT DRAINAGE MAP	
PROJECT NUMBER	20213.100	PROJECT MANAGER	R.D.W.
DATE	4-21-17	DRAWN BY	J.W.M.
SCALE	1" = 20'	CHECKED	R.D.W.
DRAWING NO.			SHEET
3			3

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.





**Location Map**  
**Owner/Applicant:**  
 Andrew Fiore  
 37 South 8th Street, Unit #306  
 Brooklyn, NY 11249

**Project Location:**  
 800 Birdsell Drive  
 Yorktown Heights, NY 10598

**Site Data:**  
 Zone: R-80 Residential  
 Total Acreage: 2.7 AC.  
 Tax Map No.: 59.10-7-10  
 Watershed Basin: New Croton Reservoir  
 RS Name: Stahmer Minor Subdivision  
 RS Lot No.: 10  
 Filed Map No.: 29353  
 Date Filed: 12/18/19

- General Notes:**
- Property line and existing features shown hereon obtained from final plot subdivision of property prepared by Baxter Land Surveying dated 7-13-15.
  - Topography shown hereon is based upon aerial photography provided by Baxter Land Surveying. The contour interval is 2'.
  - No soil stockpiles, materials or equipment will be stored in areas to be used for the subsurface sewage treatment system.
  - The electric and communication utilities shall be installed in accordance with the utility provider specifications including but not limited to providing the proper bedding, cover, and detectable warning tape / tracer wire.
  - The rim elevation of the existing catch basin at the corner of Birdsell Drive and Starlight Road was determined by interpolating existing topographic information. The invert was determined by field measurements between the rim and invert and relating the invert to the interpolated rim elevation.

**LEGEND**

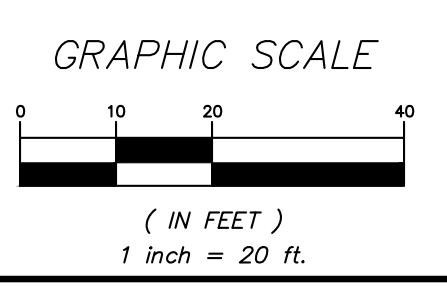
- PROPERTY LINE
- - - EXISTING PROPERTY LINE TO BE EXTINGUISHED
- - - EXISTING UTILITY POLE W/ OVERHEAD WIRES
- EXISTING STONE WALL
- - - EXISTING TREE LINE
- EXISTING WELL
- EMP EXISTING ELECTRIC METER POST
- ⊕ Pole EXISTING UTILITY POLE
- 8"TR 10"SP EXISTING TREE TO REMAIN
- ✕ 8"TR ✕ 10"SP EXISTING TREE TO BE REMOVED

**TREE LEGEND**

- Deciduous Tree
- \* Evergreen
- TRI Triple
- TW Twin
- QUAD. Quadruple
- BB Black Birch
- BE Birch
- CH Cherry
- HK Hickory
- OA Oak
- PN Pine
- SP Spruce
- TR Tree

**SOILS LEGEND**

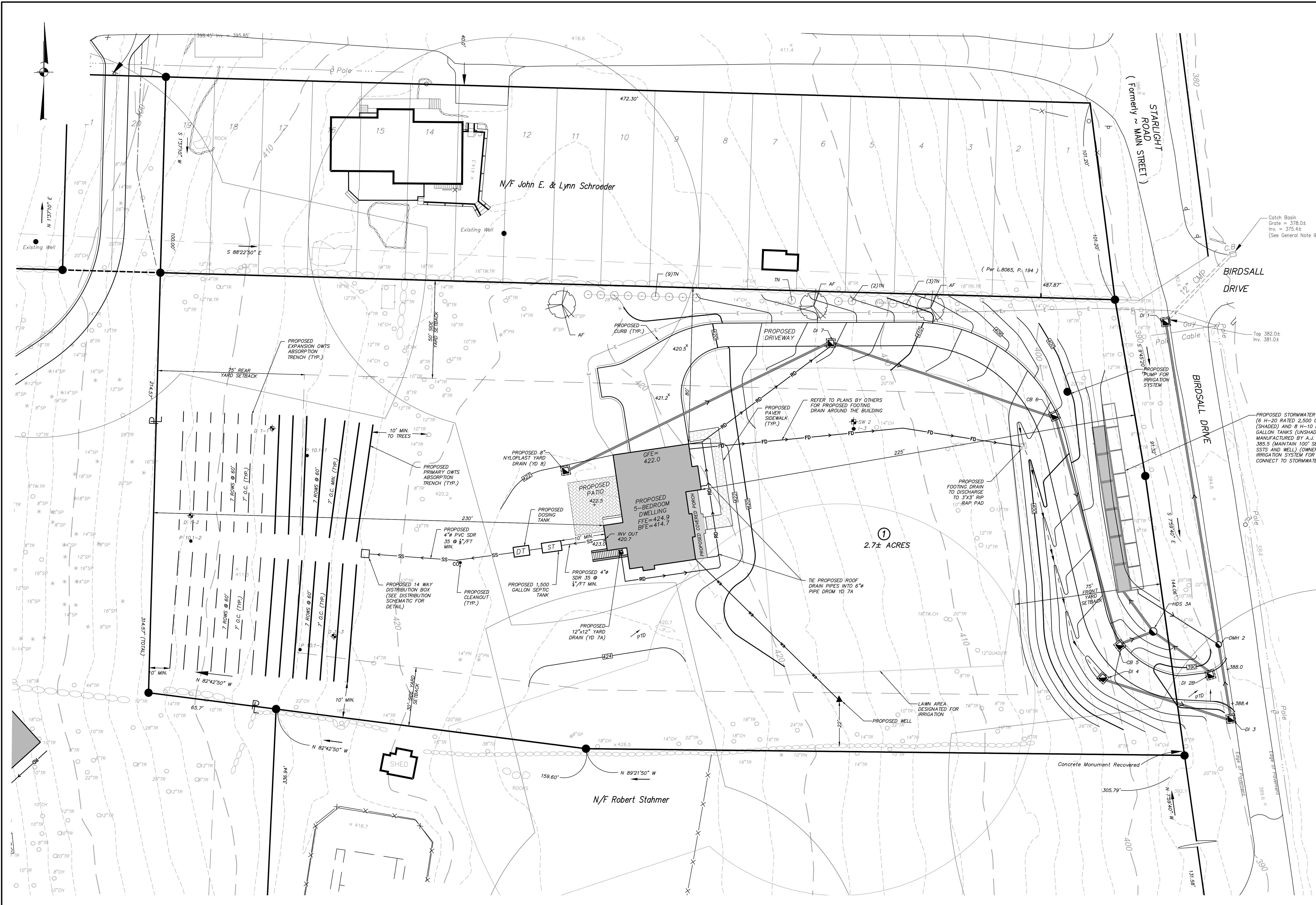
SOILS	DESCRIPTION	HYDROLOGICAL GROUP
CuD	Chattfield-Halls-Rock outcrop complex, hilly	C
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	C
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	C



NO.	DATE	REVISION	BY
PROJECT:		FIORE RESIDENCE	
800 BIRDELL DRIVE, TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK			
DRAWING:		EXISTING CONDITIONS & REMOVALS PLAN	
PROJECT NUMBER	20213.100	PROJECT MANAGER	R.D.W.
DATE	4-28-21	DRAWN BY	J.W.M.
SCALE	1" = 20'	CHECKED BY	R.D.W.
DRAWING NO.	SHEET		EX-1
			1 / 4

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**LEGEND**

- PROPOSED PROPERTY LINE
- PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED BELGIUM BLOCK CURB
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 4" PVC SDR 35 ROOF LEADER DRAIN
- PROPOSED 4" PVC SDR 35 FOOTING DRAIN
- PROPOSED SPOT GRADE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED DRAIN INLET/CATCH BASIN
- PROPOSED YARD DRAIN
- PROPOSED END SECTION
- DEEP TEST HOLE LOCATION
- INFILTRATION TEST LOCATION
- PROPOSED DRAINAGE PIPE
- PROPOSED ELECTRICAL LINE
- PROPOSED RIP/RAP PAD
- PROPOSED RETAINING WALL
- PROPOSED GRASS SWALE
- PROPOSED DRAINAGE SWALE
- EXPANSION ABSORPTION TRENCH
- DISTRIBUTION BOX (DB)
- SEPTIC TANK
- FOOTING DRAIN
- WATER SERVICE CONNECTION
- PROPOSED WELL

**R1-80 Zone Requirements:**

Requirement	Required	Provided
Lot Area: (sf)	80,000	117,530
Lot Width At Main Bldg	200'	234'±
Lot Depth: (ft)	200'	510'±
Front Yard: (ft)	75'	225'±
Side Yard: (ft)	100' <sup>(1)</sup>	
Main or Accessory Bldg, Minimum Either Side	30'	80'
Two Combined	80'	140'±
Accessory Bldg. If in Rear Yard, Minimum Either Side	10'	N/A
Rear Yard: (ft)		
Main Bldg.	75'	230'±
Accessory Bldg. or Structure	10'	N/A
Maximum Height: (ft)		
Main Bldg.	35'	<35'
Accessory Bldg.	15'	N/A
Minimum Usable Floor Area of Dwelling Unit: (sf)	1,200	4,300 (AS SHOWN)
Maximum Bldg. Coverage (All Buildings)	10%	26%± (AS SHOWN)
Required Off-Street Parking Spaces Per Dwelling Unit	1	2
Road Frontage: (ft)	200'	235'±

(1) ON STREETS WITH LESS THAN 50-FOOT RIGHT-OF-WAY, THE FRONT YARD SETBACK SHALL BE MEASURED FROM THE CENTER LINE OF THE EXISTING ROADWAY AND 25 FEET SHALL BE ADDED TO THE REQUIRED FRONT YARD SETBACK.

**STORMWATER MANAGEMENT PRACTICE TEST RESULTS**

DEEP TEST PERFORMED ON AUGUST 28, 29 AND 30, 2017 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED.

SW-1: 0"-6" TOPSOIL, COMPACT BROWN FINE SAND GROUNDWATER SEEP @ 132" GROUNDWATER OR LEDGE ENCOUNTERED @ 144"

SW-2: 0"-6" TOPSOIL, LIGHT BROWN FINE SANDY LOAM SPOT MOTTLING OBSERVED @ 32" NO GROUNDWATER OR LEDGE ENCOUNTERED

INFILTRATION TEST RESULTS  
E-1: 12 INCHES/HOUR

**DRAINAGE TABLE**

STRUCTURE	INV.	BASE	PIPE SIZE	LENGTH	SLOPE
			(Inches)	(Linear Feet (L.F.))	(Percent %)
YD 8	422.0	419.5	6" HDPE	150 L.F.	5.9
DI 7	414.7	407.9	12" HDPE	123 L.F.	8.3
CB 6	401.8	398.7	12" HDPE	120 L.F.	9.6
CB 5	392.0	388.5	12" HDPE	19 L.F.	12.6
HDS 3A	395.0	386.1	12" HDPE	25 L.F.	12.4
SMP 2.1P		383.0			
YD 7A	413.0	410.5	6" HDPE	210 L.F.	1.0
DI 7	395.0	408.3			
DI 4	391.0	387.5	12" HDPE	67 L.F.	3.0
DI 3	389.0	385.5	15" HDPE	38 L.F.	1.8
DMH 2	388.0	384.5	15" HDPE	167 L.F.	2.4
DI 1	382.0	380.5			
SMP 2.1P		385.5			
DMH 2	395.0	385.0	6" HDPE	51 L.F.	1.0
DI 2B	387.9	386.4	6" HDPE	36 L.F.	0.8
HDS 3A	395.0	386.1			

**PLANT LIST**

QUANTITY	KEY	BOTANICAL/COMMON NAME	SIZE	ROOT/SPACING
3	AF	Acer X Freemanii / Autumn Blaze Maple	2" CAL.	B&B/10' O.C. MIN.
15	TN	Thuja 'North Pole' / Emerald Green Arborvitae	4'-5' HT.	B&B/6' O.C. MIN.

GRAPHIC SCALE  
0 10 20  
(IN FEET)  
1 inch = 20 ft.

**INSITE**  
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

3 Garrett Place  
Carmel, NY 10512  
(845) 225-9690  
(845) 225-9717 fax  
www.insite-eng.com

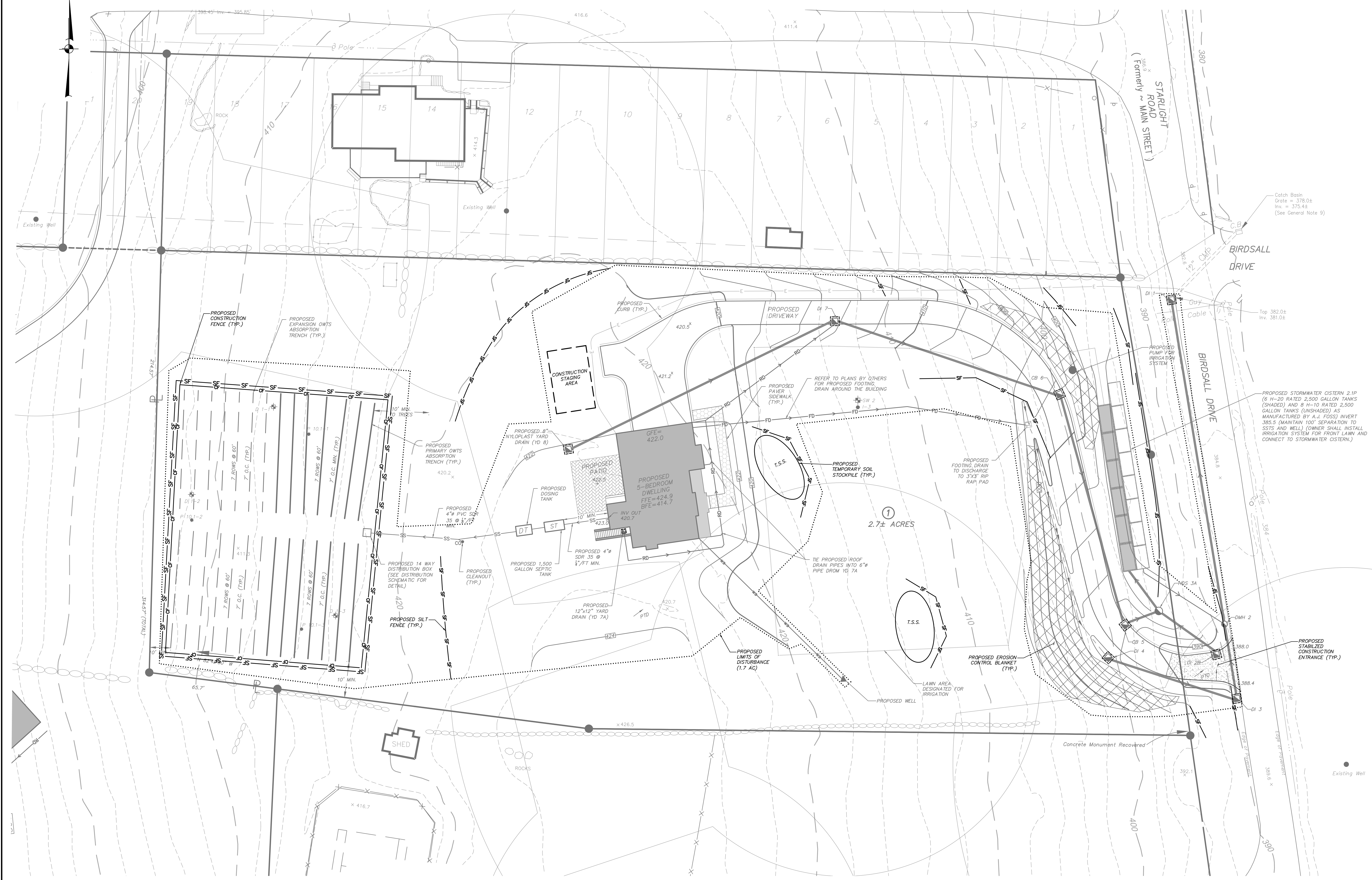
PROJECT: **FIORE RESIDENCE**  
800 BIRDSALL DRIVE, TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

DRAWING: **SITE DEVELOPMENT PLAN**

PROJECT NUMBER	20213.100	PROJECT MANAGER	R.D.W.	DRAWING NO.	SHEET
DATE	4-28-21	DRAWN BY	J.W.M.		2
SCALE	1" = 20'	CHECKED BY	R.D.W.		4

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LEGEND	
	PROPOSED PROPERTY LINE
	PROPERTY LINE
	EXISTING STONE WALL
	EXISTING 2' CONTOUR
	EXISTING 10' CONTOUR
	PROPOSED EDGE OF PAVEMENT
	PROPOSED BELGIUM BLOCK CURB
	PROPOSED 10' CONTOUR
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	PROPOSED RIP RAP PAD
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	DISTRIBUTION BOX (DB)
	SEPTIC TANK
	FOOTING DRAIN
	ROOF DRAIN
	WATER SERVICE CONNECTION
	PROPOSED WELL

SOIL RESTORATION REQUIREMENTS	
TYPE OF DISTURBANCE	SOIL RESTORATION REQUIREMENTS
Areas where topsoil is striped only - no change in grade	Aerate <sup>1</sup> and apply 6 inches of topsoil
Areas of cut or fill	Apply full Soil Restoration <sup>1</sup>
Heavy traffic areas on site (especially in a zone 5-25 feet around buildings but not within a 5-foot perimeter around foundation walls)	Apply full Soil Restoration (decompaction and compost enhancement)
Areas where Runoff Reduction and/or infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.

1. Aeration includes the use of machines such as roller-tines or tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which functions like a mini-subsoiler.
2. Per "Deep Ripping and De-compaction, DEC 2008". Compost shall be aged, from plant derived materials, free of viable weed seeds, have no visible free water or dust produced when handling, pass through a half inch screen and have a pH suitable to grow desired plants.

**REQUIRED POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICE COMPONENTS:**

1. Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-15-002), all construction projects needing post-construction stormwater management practices shall prepare a SWPPP that also includes practices designed in conformance with the most current version of the technical standard, New York State Stormwater Management Design Manual ("Design Manual"). Where post-construction stormwater management practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of SWPPP components is provided in accordance with Part II.B.2-a) and II.B.3.
  - a. Identification of all post-construction stormwater management practices to be constructed as part of the project. This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
  - b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice. This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
  - c. A Stormwater Modeling and Analysis Report including pre-development conditions, post-development conditions, the results of the stormwater modeling, a summary table demonstrating that each practice has been designed in conformance with the aizing criteria, identification of and justification for any deviations from the Design Manual, and identification of any design criteria that are not required. The required analysis is provided in the project Stormwater Pollution Prevention Plan.
  - d. Soil testing results and locations. This SWPPP requirement is shown hereon.
  - e. Infiltration testing results. This SWPPP requirement is shown hereon.
  - f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice. The project Stormwater Pollution Prevention Plan serves to satisfy this requirement.
2. Enhanced Phosphorus Removal Standards - Beginning on September 30, 2008, all construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the most current version of the technical standard, New York Stormwater Management Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 1.a - 1.f above. The permanent stormwater practices for this project have been sized according to chapter 10 of the Design Manual Enhanced Phosphorus Removal Standards. Please see 1.a - 1.f above.

**CONSTRUCTION SEQUENCE:**

1. Stake out limit of disturbance, establish staging area and mark trees to be removed.
2. Septic Area shall be cordoned off with construction fence prior to start of site work.
3. Install silt fence in general locations indicated on the plan.
4. Install stabilized construction entrance/anti-tracking pad at driveway entrance.
5. Begin clearing and grubbing operations associated with house, driveway and SSTS.
6. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
7. Begin grading and construction of individual driveway.
  - 7.1. During this step, drainage improvements along Birdsell drive shall be constructed (Specifically installation and associated piping for DI 1, DMH 2 and DI 3).
  - 7.2. Install remaining utilities and drainage structures (Specifically DI 2B, HOS 3A, DI 4, CB 5, CB 6, DI 7) and associated piping. Install Clatern SMP 2.1P and connect Roof Leader Drains to the structures as shown on the plan. The pipe discharging to the Hydrodynamic Separator (from CB 5 and DI 2B) to be plugged until final stabilization is achieved.
  - 7.3. Complete grading for driveway and stabilize associated grading in shoulder areas. Area downhill of footing drains shall be stabilized prior to footing drain installation.
  - 7.4. Slopes steeper than 2:1 shall be stabilized immediately after grading with Erosion Control Blanket.
  - 7.5. The Irrigation System shall be installed at the same time as the Clatern.
  - 7.6. Begin house construction, individual lot grading and installation of SSTS and well. Install Footing Drains and Rip Rap Pads.
  - 7.7. Upon completion of grading operations, install finished driveway surfaces.
  - 7.8. Prior to application of topsoil, all areas in the limit of disturbance must undergo soil restoration.
  - 7.9. Topsoil, seed, and mulch all disturbed areas as soon as practical in accordance with the Erosion and Sediment Control Notes contained on this page.
  - 7.10. Upon achieving final stabilization (as determined by the project qualified professional performing the erosion and sediment control inspections) remove the plugs discharging to the stormwater practices and pretreatment devices.

**EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE**

PRACTICE	MONITORING REQUIREMENTS			MAINTENANCE REQUIREMENTS	
	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	-	Inspect	Inspect	Clean/Replace	Remove
STABILIZED CONSTRUCTION ENTRANCE	Inspect	-	Inspect	Clean/Replace Stone and Fabric	Remove
DUST CONTROL	Inspect	-	Inspect	Mulching/Spraying Water	N/A
VEGETATIVE ESTABLISHMENT	-	Inspect	Inspect	Water/Reseed/Retain	Reseed to 80% Coverage
SOIL STOCKPILES	-	Inspect	Inspect	Mulching/Silt Fence Repair	Remove

\* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized.

GRAPHIC SCALE  
 ( IN FEET )  
 1 inch = 20 ft.

**INSITE**  
 ENGINEERING, SURVEYING &  
 LANDSCAPE ARCHITECTURE, P.C.

PROJECT: **FIORE RESIDENCE**

DRAWING: **EROSION & SEDIMENT CONTROL PLAN**

PROJECT NUMBER	20213.100	PROJECT MANAGER	R.D.W.	DRAWING NO.		SHEET	3
DATE	4-28-21	DRAWN BY	J.W.M.	CHECKED BY	R.D.W.		4

SCALE: 1" = 20'



**EROSION & SEDIMENT CONTROL NOTES:**

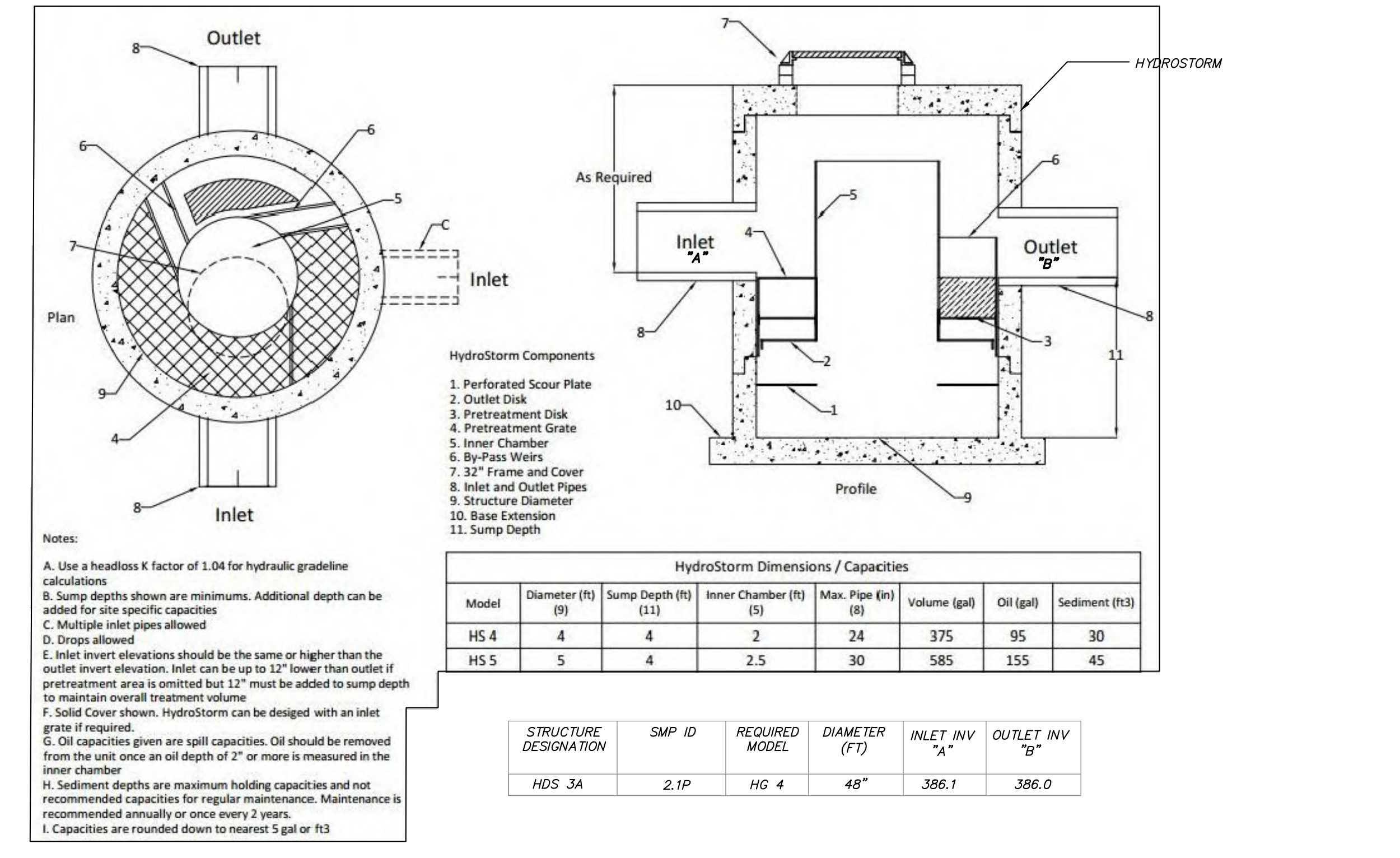
- The owner's field representative (O.F.R.) will be responsible for the implementation and maintenance of erosion and sediment control measures on this site prior to and during construction.
- All construction activities involving the removal or disposal of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment disposal within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
- Wherever feasible, natural vegetation shall be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time.
- When land is exposed during development, the exposure shall be kept to the shortest practical period of time. In the areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. Disturbance shall be minimized to the areas required to perform construction.
- Silt fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
- All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded for temporary stabilization. Ryegrass (annual or perennial) at a rate of 30 lbs. per acre shall be used for temporary seeding in spring, summer or early fall. "Aristock" winter rye (cereal rye) shall be used for temporary seeding in late fall and winter.
- Any disturbed areas not subject to further disturbance or construction traffic, permanent or temporary, shall have soil stabilization measures initiated for permanent vegetation cover in combination with a suitable mulch within 1 business day of final grading. All seeded areas to receive a minimum 4" topsoil (from stockpile area) and be seeded and mulched as follows:
  - Seed mixture to be planted between March 21 and May 20, or between August 15 and October 15 or as directed by project representative at a rate of 100 pounds per acre in the following proportions:
    - Kentucky Bluegrass 20%
    - Creeping Red Fescue 40%
    - Perennial Ryegrass 20%
    - Annual Ryegrass 20%
  - Mulch: Silt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and ordered according to "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
- Grass seed mix may be applied by either mechanical or hydroseeding methods. Seeding shall be performed in accordance with the current edition of the "NYSDOT Standard Specification, Section 209-1.08B" hydroseeding shall be performed using materials and methods as approved by the site engineer.
- Cut or fill slopes steeper than 3:1 shall be stabilized immediately after grading with Curlex 1 Single Net Erosion Control Blanket, or approved equal.
- Paved roadways shall be kept clean at all times.
- The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
- All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
- Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
- Erosion and sediment control measures shall be inspected and maintained on a daily basis by the O.F.R. to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all silt ditches and silt fences are intact. Any failure of erosion and sediment control measures shall be immediately repaired by the contractor and inspected for approval by the O.F.R. and/or site engineer.
- Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the O.F.R.
- Cut and fills shall not endanger adjoining property, nor divert water onto the property of others.
- All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
- The O.F.R. shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rain events.
- As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer and/or the Town Engineer shall be installed by the contractor.
- Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.

**REQUIRED EROSION CONTROL SWPPP CONTENTS:**

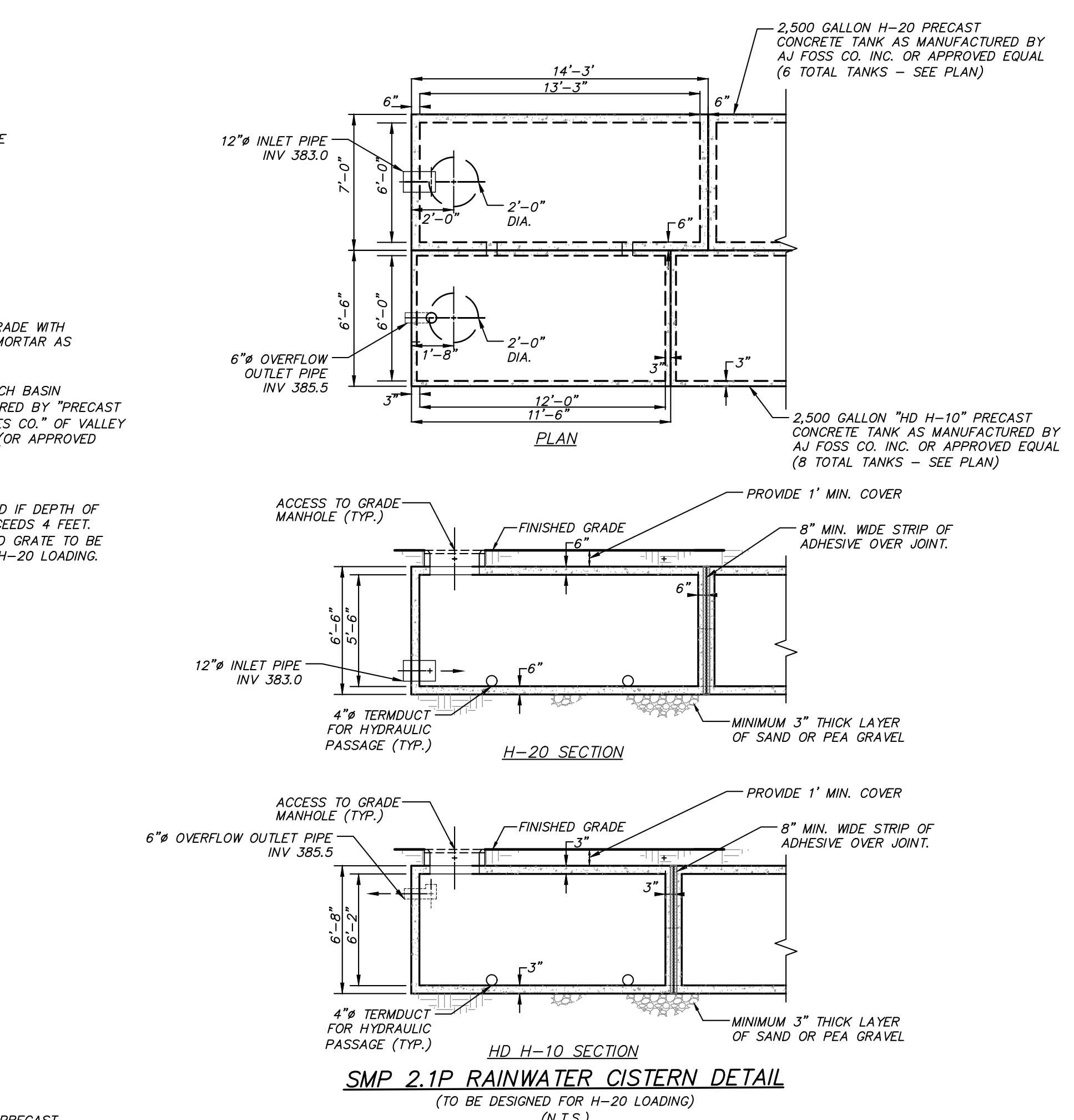
- Pursuant to the NYSDEC "SPDES" General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all Stormwater Pollution Prevention Plans (SWPPP) shall include erosion and sediment control practices designed in conformance with the most current version of the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." Where erosion and sediment control practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of required SWPPP contents is provided in accordance with Part 116.11(a)-(1) of General Permit GP-0-20-001:
- Background information: The subject project consists of a single family residential dwelling.
  - Site map / construction drawing: These plans serve to satisfy this SWPPP requirement.
  - Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Paxton Fine Sandy Loam (PnB & PnC), and Chatterfield-Hollis, Rock Outcrop (CUD) as identified on the Soil Conservation Service Web Soil Survey. These soil types belong to the Hydrologic Soil Group "C".
  - Construction phasing plan / sequence of operations: The Construction Sequence and phasing plan on these plans provide the required phasing. A Construction Sequence and Erosion and Sediment Control Maintenance Schedule has been provided. The Sedimentation and Erosion Control Notes contained hereon outline a general sequence of operations for the proposed project. In general all erosion and sediment control facilities shall be installed prior to commencement with land disturbing activities, and areas of disturbance shall be limited to the shortest period of time as practicable.
  - Description of erosion and sediment control practices: This plan, and details / notes shown hereon serve to satisfy this SWPPP requirement.
  - Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and Details provided hereon identify temporary and permanent stabilization measures to be employed with respect to specific elements of the project, and at the various stages of development.
  - Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.
  - The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices: The details and Erosion and Sediment Control Notes serve to satisfy this SWPPP requirement.
  - An inspection schedule: inspections are to be performed twice weekly and by a qualified professional as required by the General Permit GP-0-20-001. In addition the NYSDEC Trained Contractor shall perform additional inspections as cited in the Sedimentation and Erosion Control Notes.
  - A description of pollution prevention measures that will be used to control litter, construction chemicals and construction debris: In general, all construction litter, debris shall be collected and removed from the site. The general contractor shall supply either waste barrels or dumpster for proper waste disposal. Any construction chemicals utilized during construction shall either be removed from site daily by the contractor or stored in a structurally sound and weatherproof building. No hazardous waste shall be disposed of on site, and shall ultimately be disposed of in accordance with all federal, state and local regulations. Material Safety Data Sheets (MSDS), material inventory, and emergency contact numbers shall be maintained by the general contractor for all construction chemicals utilized onsite. Finally, temporary sanitary facilities (portable toilets) shall be provided for the construction crew.
  - A description and location of any stormwater discharges associated with industrial activity other than construction at the site: There are no known industrial stormwater discharges present or proposed at the site.
  - Identification of any elements of the design that are not in conformance with the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." All proposed elements of this SWPPP have been designed in accordance with the "New York Standards and Specifications for Erosion and Sediment Control."

SMP LONG TERM INSPECTION/MAINTENANCE REQUIREMENTS			
PRACTICE ID	MONTHLY INSPECTION/MAINTENANCE REQUIREMENTS	ANNUAL INSPECTION/MAINTENANCE REQUIREMENTS	INSPECTION/MAINTENANCE AFTER MAJOR STORM EVENTS
Stormwater Cistern (2.1P)	Not Applicable	Inspect and clear debris/sediment from units and verify operation. Flush or vacuum units to remove sediment as needed. Inspect orifices, inlets & outlets for clogging, & stabilize and/or repair immediately. The cistern will be manually lowered at the end of fall/beginning of the winter season.	Inspect orifices, inlets & outlets for clogging, & stabilize and/or repair immediately. Inspect sediment depths and general condition of units.
Hydro-dynamic Separator	Not Applicable	Remove cover and inspect chamber and discharge pipes. Flush or vacuum accumulated sediment as needed. Refer to Attachment D of the project SWPPP for additional information.	Remove cover and inspect chamber and discharge pipes. Flush or vacuum accumulated sediment as needed. Refer to Attachment D of the project SWPPP for additional information.
Catch Basin / Drain Manhole	Not Applicable	Clean sumps/remove debris. Inspect well wall for deformation and/or repair immediately.	Clean sumps/remove debris. Inspect well wall for deformation and/or repair immediately.
Drain Inlets / Yard Drains	Clean sumps/remove debris	Clean sumps/remove debris	Clean sumps/remove debris
Grass Swales	Inspect first few months after construction for eroding soils & slumpage & repair immediately.	Inspect & clean mow & remove debris & litter. Revegetate as needed. Inspect for & remove accumulated sediment every 5 to 10 years.	Not Applicable
Drainage Pipes	Not Applicable	Clean sumps/remove debris	Clean sumps/remove debris

Note: The party responsible for implementation of the maintenance schedule during and after construction, as well as implementation of the long term maintenance plan is: Andrew Fiore 37 South 8th Street, Unit #306 Brooklyn, NY 11249 and/or the current owner(s) of the subject property.



**PROPOSED HYDRODYNAMIC SEPARATOR DETAIL (N.T.S.)**

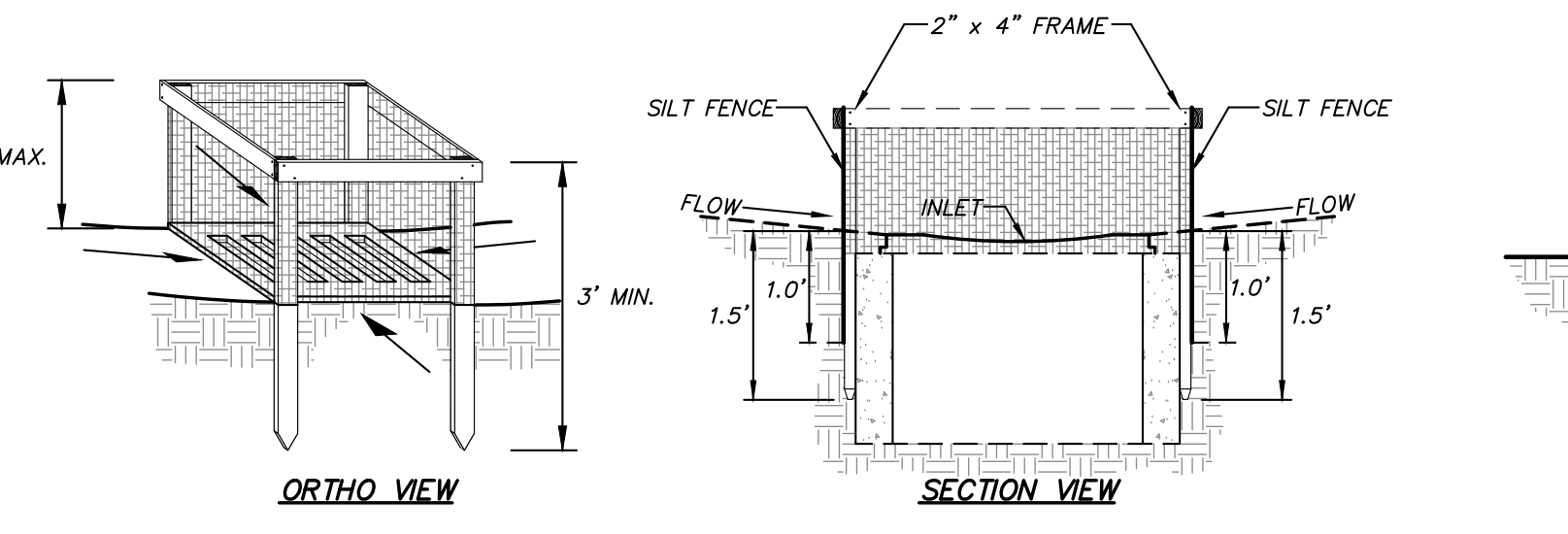


**IRRIGATION SYSTEM NOTES:**

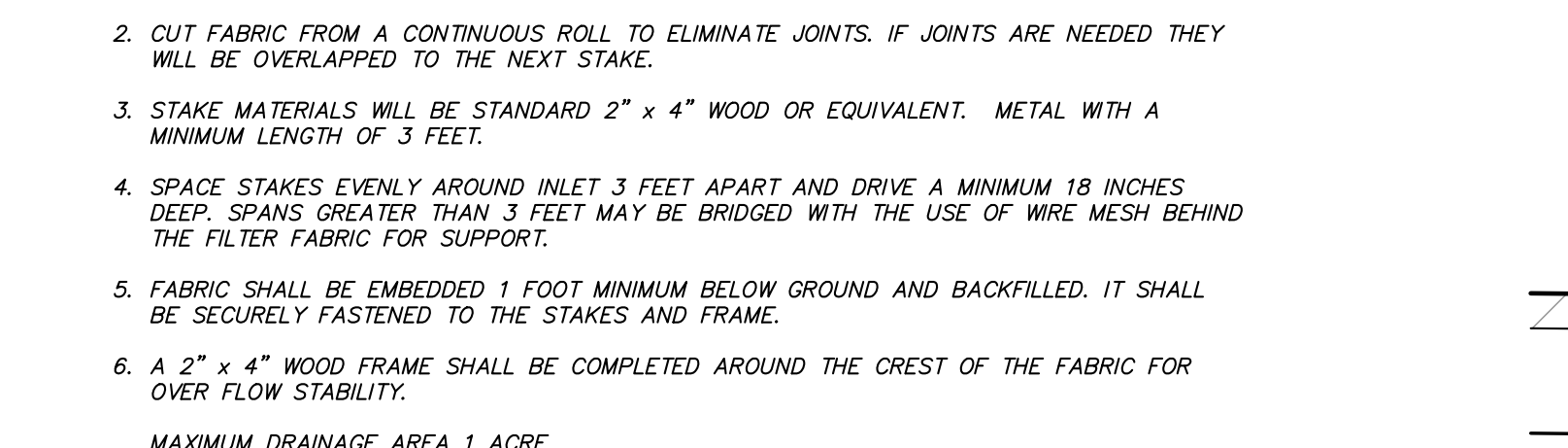
- Stormwater Cistern (SMP 2.1) shall be installed with a pump and distribution piping capable of servicing Lawn Area as shown on Drawing IRR-1. Final design of the irrigation system by irrigation contractor.
- Irrigation distribution and piping shall be installed prior to the installation of finished asphalt and concrete surfaces.
- Irrigation contractor to provide as-built of system to Design Engineer.

**CISTERN DEWATERING NOTES:**

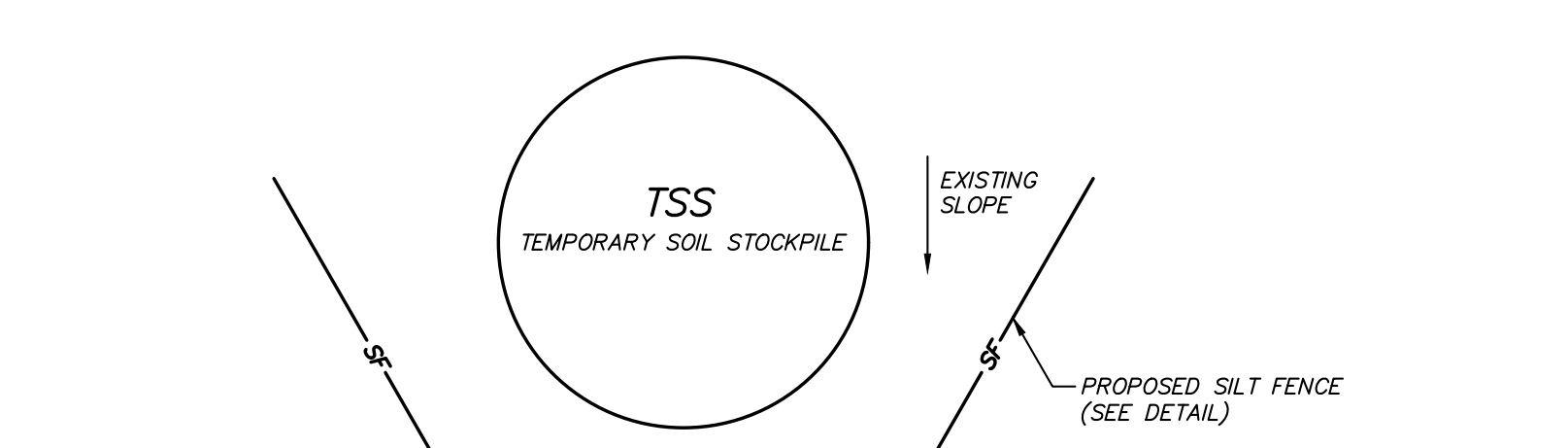
- The cistern is proposed to provide the primary source of water to irrigate the lawn area on lot 1.
- The cistern will be used as the primary source of irrigation water, when available, for the lawn area. An alternate source of irrigation water will be utilized by the owner when the storage in the cistern has been depleted.
- The Owner will monitor the irrigation system during the growing season to ensure volume within the cistern is provided prior to rainfall events. Should impending weather dictate the need for additional storage within the cistern, a longer duration of pumping than what is contemplated in note #5 below shall be used to lower the static water level in the cistern prior to a rainfall event.
- A pump with a minimum output of 20 gallons per minute shall be used to dewater the cistern and supply the irrigation system.
- The anticipated irrigation schedule during the growing season is 2.5 hours a day, every day. As stated above the cistern dewatering pump must be capable of pumping 20 gallons a minute. Therefore, it is conservatively estimated that 3,000 gallons will be used during one irrigation cycle. The cistern volume, if completely full, would be depleted in just over 3 irrigation cycles or once every 5 days. Based on the EPA WaterSense Home Specification tool, the site requires 96,557 gallons/month (24,139 gallons/week, 3,448 gallons/day).
- Per the recommendations for cisterns in the New York State Stormwater Management Design Manual (Design Manual) the cistern will be manually lowered by the owner at the beginning of and during the winter season. The lowering of the water elevation in the cistern provides the needed storage for spring ice melt and will help prevent possible winter ice damage within the cistern.



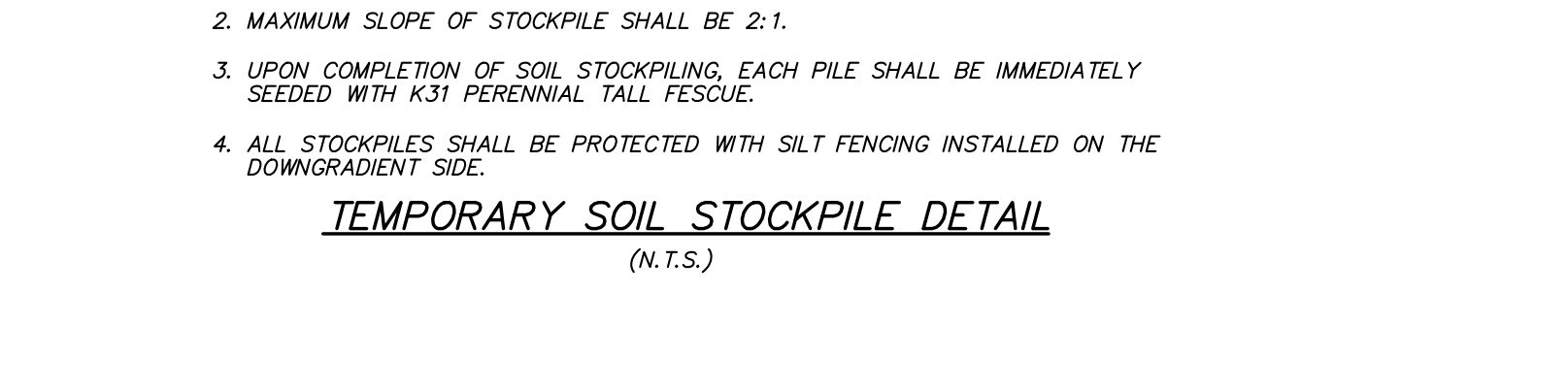
**ASPHALT PAVEMENT DETAIL (N.T.S.)**



**FILTER FABRIC INLET PROTECTION DETAIL (N.T.S.)**



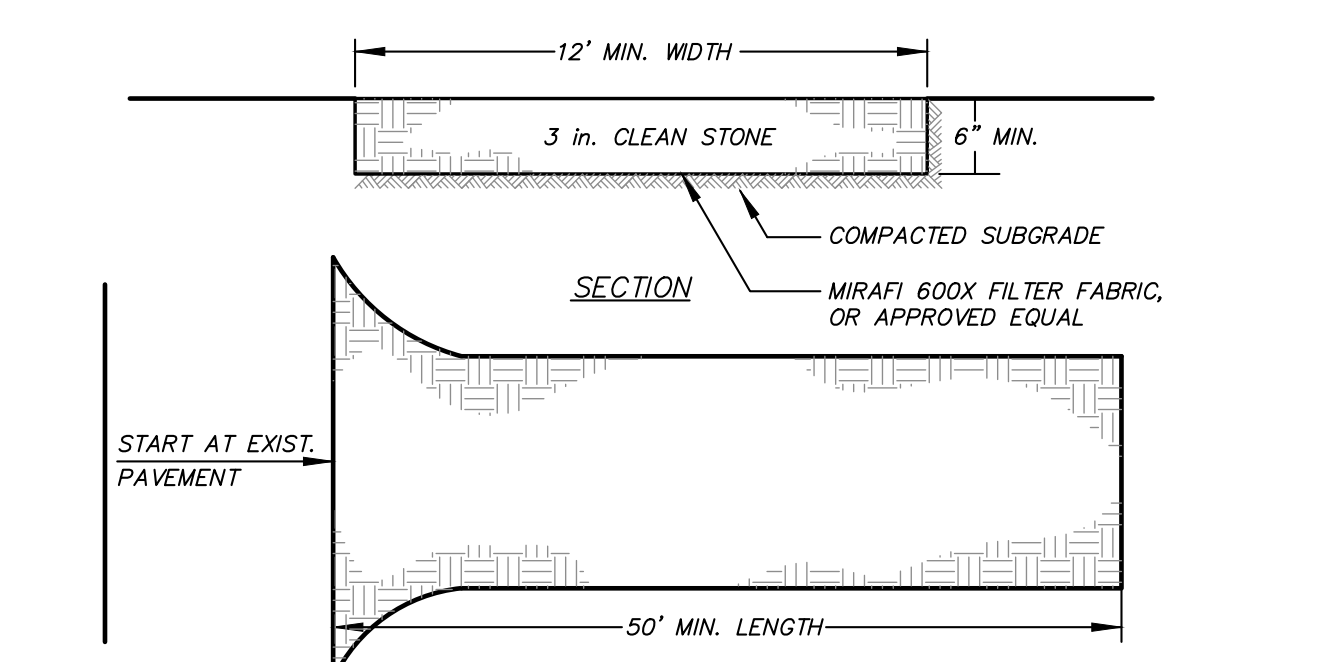
**DRAINAGE LINE TRENCH DETAIL (N.T.S.)**



**EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE**

PRACTICE	MONITORING REQUIREMENTS		MAINTENANCE REQUIREMENTS	
	DAILY	WEEKLY	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	-	Inspect	Inspect	Remove
STABILIZED CONSTRUCTION ENTRANCE	Inspect	-	Inspect	Remove
DUST CONTROL	Inspect	-	Inspect	N/A
*VEGETATIVE ESTABLISHMENT	-	Inspect	Inspect	Reseed to 80% Coverage
INLET PROTECTION	-	Inspect	Inspect	Remove
SOIL STOCKPILES	-	Inspect	Inspect	Remove
SWALES	-	Inspect	Inspect	Remove
CONCRETE DRAINAGE STRUCTURES	-	Inspect	Inspect	Remove
PAVEMENT	-	Inspect	Inspect	Clean
*SEDIMENT TRAP	-	Inspect	Inspect	N/A
STONE CHECK DAM	-	Inspect	Inspect	Remove
CONCRETE TRUCK WASHOUT AREA	-	Inspect	Inspect	Remove
LEVEL SPREADER/ROCK OUTLET PROTECTION	-	Inspect	Inspect	Remove

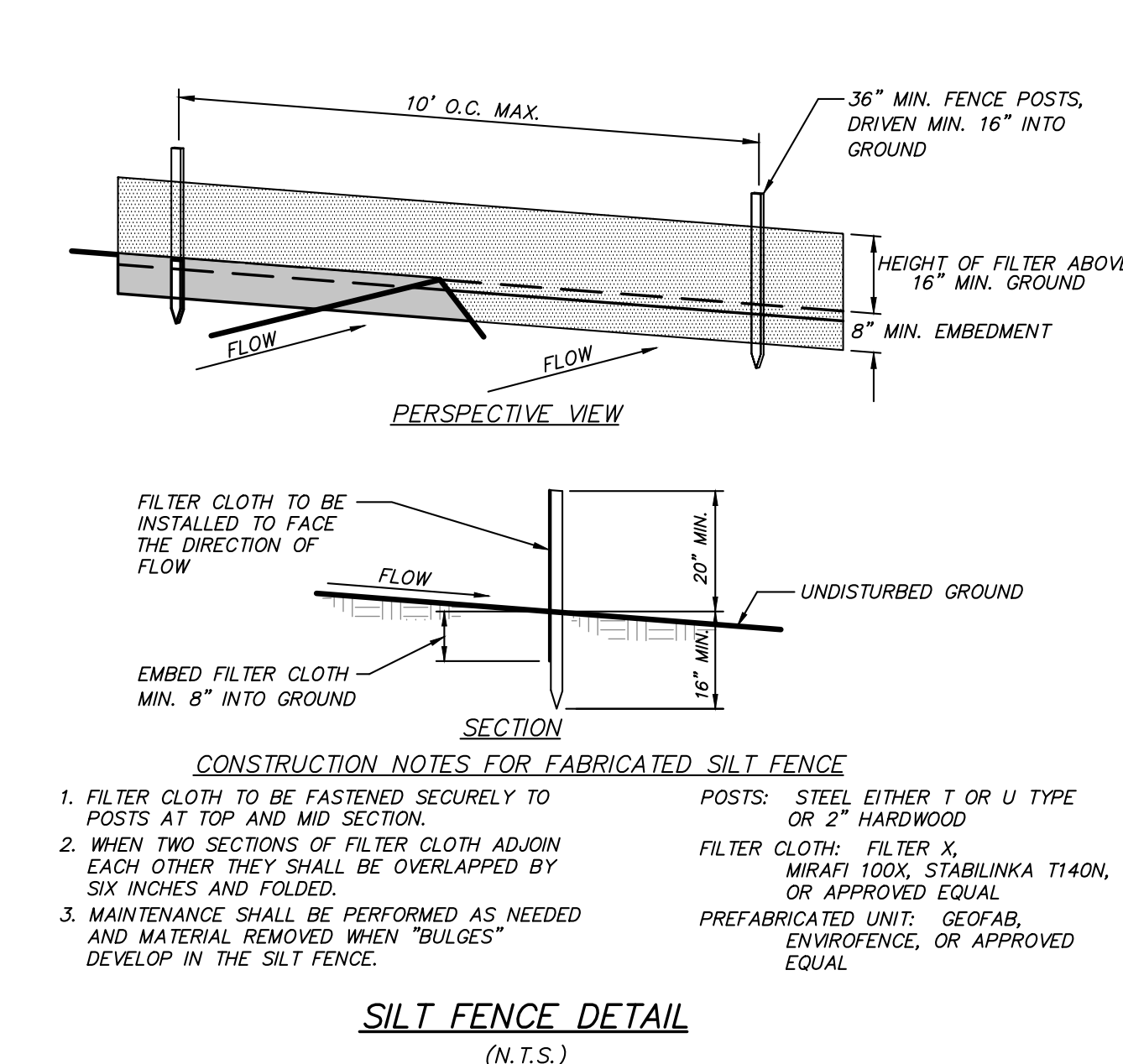
\* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized. Note: The party responsible for implementation of the maintenance schedule during and after construction, as well as implementation of the long term maintenance plan is: Andrew Fiore 37 South 8th Street, Unit #306 Brooklyn, NY 11249 and/or the current owner(s) of the subject property.



**INSTALLATION NOTES**

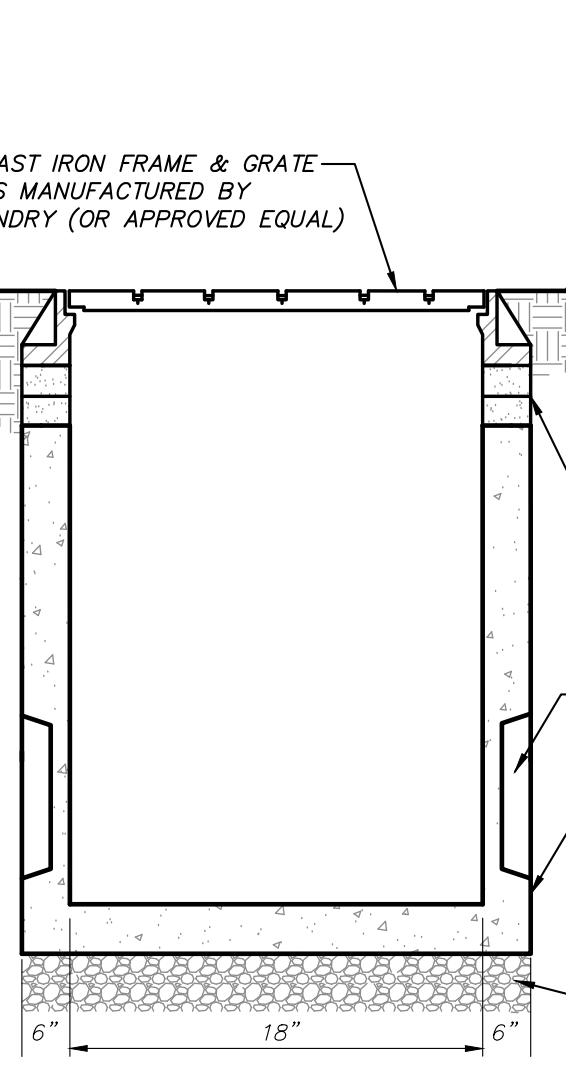
- STONE SIZE - USE 3" STONE
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE THERE IS EXCESS GRADE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTAINABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**SILT FENCE DETAIL (N.T.S.)**



ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.

**CATCH BASIN DETAIL (N.T.S.)**



**INSITE**  
 ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

3 Garrett Place  
 Carmel, NY 10512  
 (845) 225-9690  
 (845) 225-9717 fax  
 www.insite-eng.com

PROJECT: **FIORE RESIDENCE**  
 600 BRIDGEMAN DRIVE TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

DRAWING: **NOTES & DETAILS**

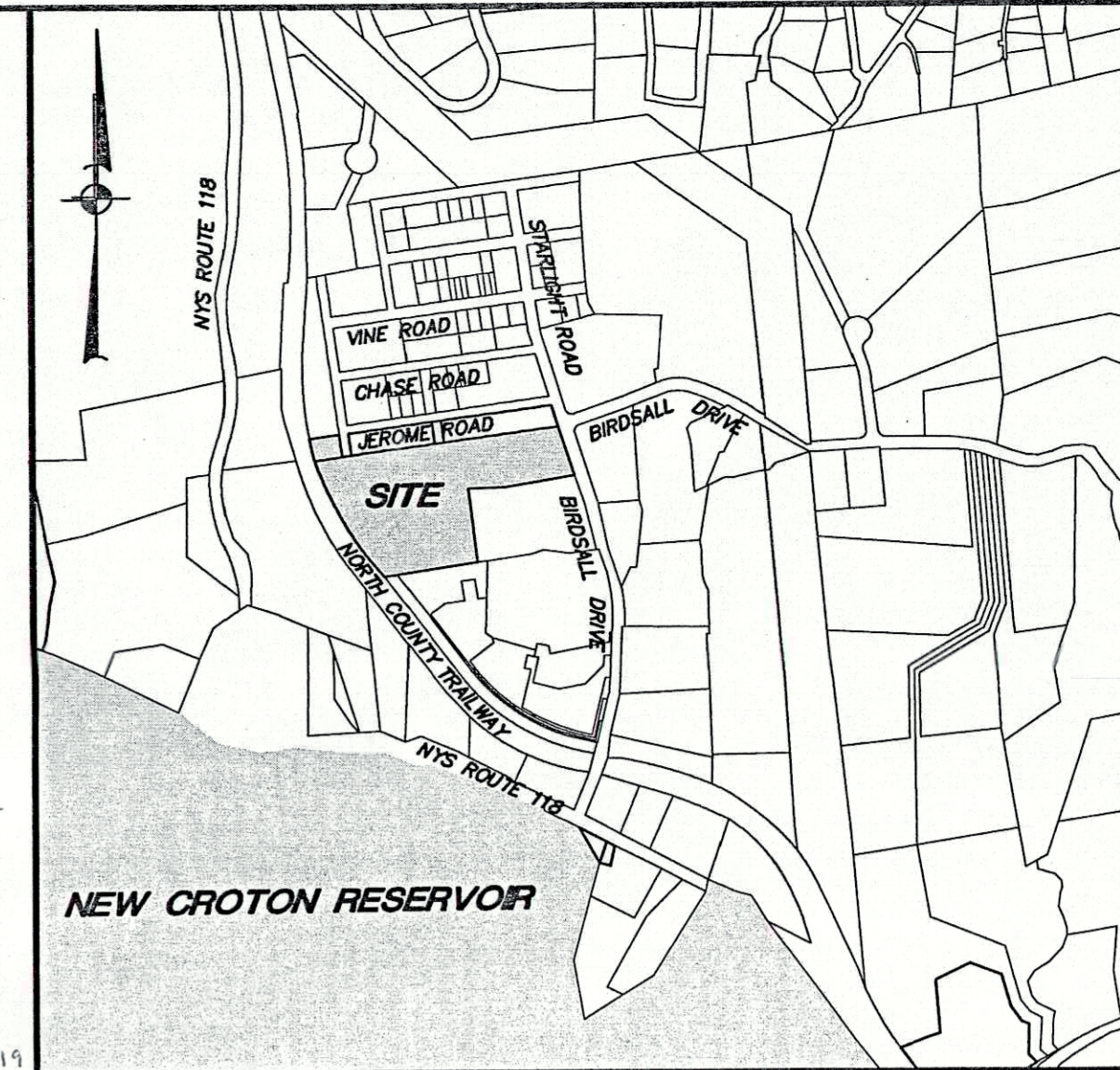
PROJECT NUMBER	20213.100	PROJECT MANAGER	R.D.W.	DRAWING NO.		SHEET	
DATE	4-28-21	DRAWN BY	J.W.M.				
SCALE	AS SHOWN	CHECKED BY					

D-1



ACCEPTED AS IMPROVEMENT PLANS  
OCT - 4 2019  
WEST CO. DEPT. OF HEALTH

APPROVED on the 26<sup>th</sup> day of February 2018  
Planning Board, Town of Yorktown, NY  
by Resolution Number 18-01  
Date: 02-24-2018  
Chairman  
Reapproved 11-19-20, Feb. 25, 2019  
Resolutions Approval # 19-19, July 15, 2019



Location Map Scale: 1" = 800'  
Owner/Applicant: Robert H. Stahmer, 610 Birdsell Drive, Yorktown Heights, New York 10598  
Site Data: R1-80 Residential, Total Acreage 10.0 AC, Tax Map No.: 58.10-1-10, 12 & 16

- General Notes:**
- Property line and existing features shown herein obtained from final plot subdivision of property prepared by Baxter Land Surveying dated 7-13-15.
  - Topography shown herein is based upon aerial photogrammetry provided by Baxter Land Surveying. The contour interval is 2'.
  - There are no wells within 200' of OWTs unless otherwise shown on plan.
  - There are no OWTs within 200' of a proposed well unless otherwise shown on plan.
  - No soil stockpiles, materials or equipment will be stored in areas to be used for the stormwater infiltration practice and for the subsurface sewage treatment system.
  - The subdivision Stormwater Pollution Prevention Plan has been designed to treat: 0.3 Ac. of Impervious surfaces on Lot 1, 0.3 Ac. of Impervious surfaces on Lot 2, 0.2 Ac. of Impervious surfaces on Lot 3.
  - The electric and communication utilities shall be installed in accordance with the utility provider specifications including but not limited to provided the proper bedding, cover, and detectable warning tape / tracer wire.
  - Primary and absorption trenches have been shown for subdivision purposes only. A site specific SSTS Design must be submitted to WCDOH at the time of individual lot construction.
  - The rim elevation of the existing catch basin was determined by interpolating existing topographic information. The invert was determined by field measurements between the rim and invert and relating the invert to the interpolated rim elevation.

**R1-80 Zone Requirements:**

Required:	LOT 1	LOT 2	LOT 3	
Lot Area: (sf)	80,000	117,530	186,500	133,470
Lot Width At Main Bldg Line: (ft)	200'	234'±	278'±	236'±
Lot Depth: (ft)	200'	510'±	561'±	571'±
Front Yard: (ft)	75'	273'±	320'±	273'±
Side Yard: (ft)	100'	320'±	273'±	273'±
Main or Accessory Bldg. Minimum Either Side	30'	56'	61'±	65'±
Two Combined	80'	140'±	195'±	132'±
Accessory Bldg. If in Rear Yard Minimum Either Side	10'	N/A	N/A	N/A
Rear Yard: (ft)	75'	194'±	258'±	215'±
Main Bldg. or Structure	10'	N/A	N/A	N/A
Maximum Height: (ft)	35'	<35'	<35'	<35'
Accessory Bldg.	15'	N/A	N/A	N/A
Minimum Usable Floor Area of Dwelling Units (sf)	1,200	2,100 (AS SHOWN)	2,100 (AS SHOWN)	2,100 (AS SHOWN)
Maximum Bldg. Coverage (All Buildings)	10%	2.5% ± (AS SHOWN)	1.6% ± (AS SHOWN)	2.4% ± (AS SHOWN)
Required Off-Street Parking Spaces Per Dwelling Unit	1	2	2	2
Road Frontage: (ft)	200'	235'±	50'±	140'±

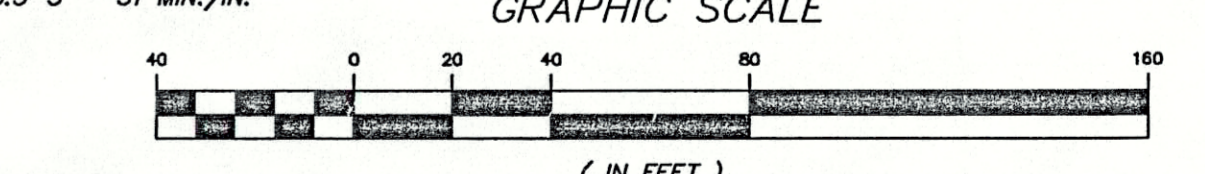
(1) ON STREETS WITH LESS THAN 50-FOOT RIGHT-OF-WAY, THE FRONT YARD SETBACK SHALL BE MEASURED FROM THE CENTER LINE OF THE EXISTING ROADWAY AND 25 FEET SHALL BE ADDED TO THE REQUIRED FRONT YARD SETBACK.  
(2) ZONING VARIANCES FOR FRONTAGE FOR LOTS 2 & 3 GRANTED BY ZONING BOARD OF APPEALS ON 4-27-2006 RESOLUTION #22/06.

**SSTS PERCOLATION TEST RESULTS**

LOT 1: (TESTING PERFORMED 8-4-10 BY JACK GOLDSTEIN, P.E. AND WITNESSED BY WCDOH)  
P 10.1-1 11 MIN./IN.  
P 10.1-2 30 MIN./IN.  
P 10.1-3 30 MIN./IN.

LOT 2: (TESTING PERFORMED BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECT ON 8-13-2017)  
P 2-1 15 MIN./IN.  
P 2-2 15 MIN./IN.  
P 2-3 15 MIN./IN.

LOT 3: (TESTING PERFORMED 7-30-10 BY JACK GOLDSTEIN, P.E. AND WITNESSED BY WCDOH)  
P 10.3-1 42 MIN./IN.  
P 10.3-2 30 MIN./IN.  
P 10.3-3 31 MIN./IN.



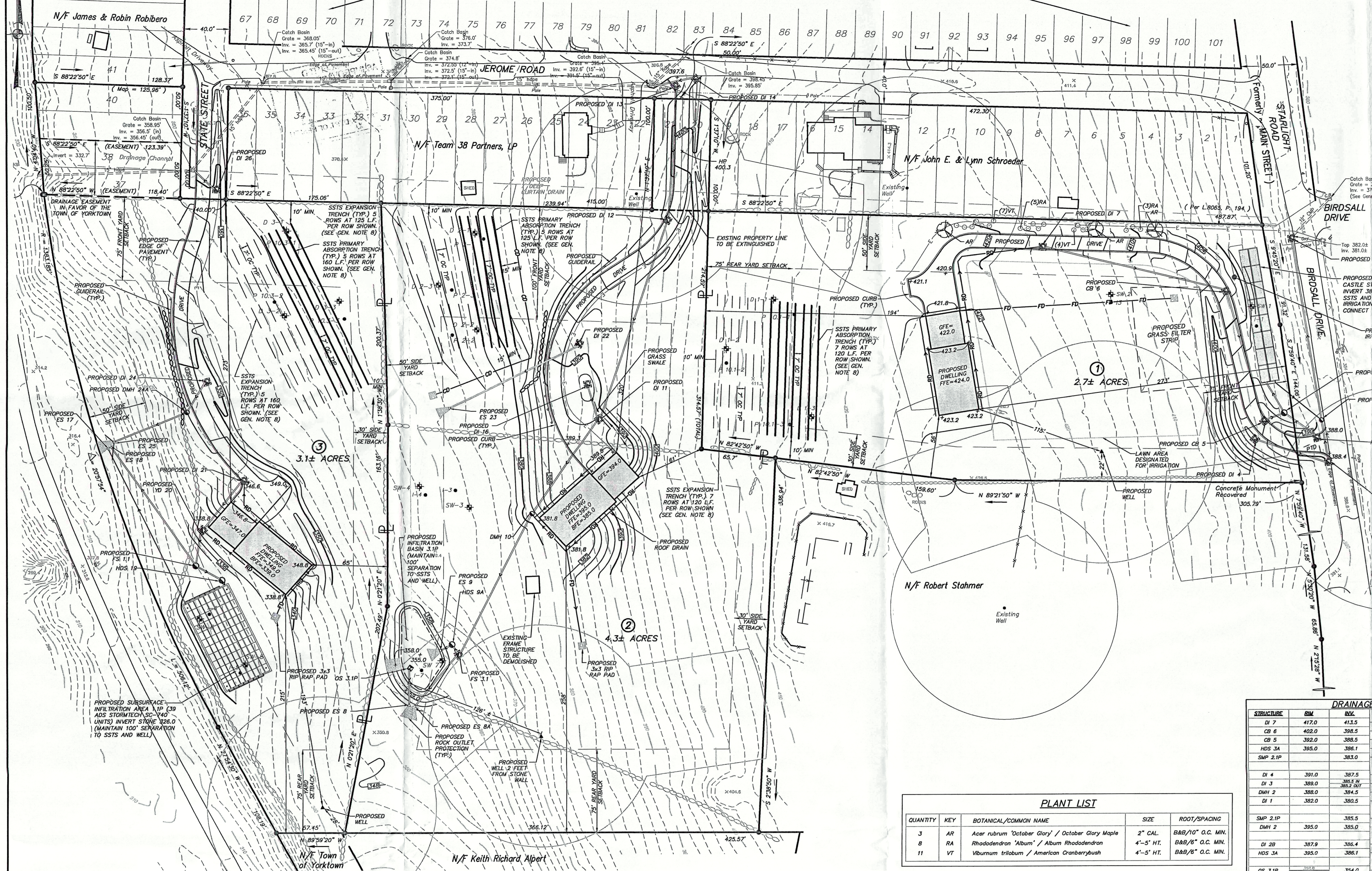
NO.	DATE	REVISION	BY
9	8-27-19	REVISED FOR PLAT COORDINATION	KAM
8	6-4-19	REVISED PER TOWN COMMENTS	JMM
7	4-10-19	REVISED PER DEP COMMENTS	JMM
6	3-19-19	REVISED PER DEP COMMENTS	JMM
5	1-23-19	REVISED PER DEP COMMENTS	JMM
4	11-16-18	REVISED PER DEP COMMENTS	JMM
3	7-09-18	REVISED PER DEP COMMENTS	JLR
2	4-24-18	GENERAL REVISIONS	LLR
1	10-25-17	GENERAL REVISIONS	KMS

**INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.**  
3 Garrett Place, Carmel, NY 10512, (845) 225-0501, (845) 225-9717 fax, www.insite-eng.com

PROJECT: STAHMER SUBDIVISION  
TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

DRAWING: INTEGRATED PLOT PLAN

PROJECT NUMBER: 16140.100, PROJECT MANAGER: R.D.W., DRAWING NO.: IPP-1, SHEET: 1/6  
DATE: 10-5-16, DRAWN: C.T.O., CHECKED BY: J.L.L.



**LEGEND**

- PROPOSED PROPERTY LINE
- PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2" CONTOUR
- EXISTING 10" CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED BELUM BLOCK CURB
- PROPOSED 10" CONTOUR
- PROPOSED 2" CONTOUR
- PROPOSED 4" PVC SDR 35 ROOF LEADER DRAIN
- PROPOSED 4" PVC SDR 35 FOOTING DRAIN
- PROPOSED SPOT GRADE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED DRAIN INLET/CATCH BASIN
- PROPOSED YARD DRAIN
- PROPOSED END SECTION
- DEEP TEST HOLE LOCATION
- INFILTRATION TEST LOCATION
- PROPOSED DRAINAGE PIPE
- PROPOSED ELECTRICAL LINE
- PROPOSED RIP RAP PAD
- PROPOSED RETAINING WALL
- PROPOSED DRAINAGE SWALE

**STORMWATER MANAGEMENT PRACTICE TEST RESULTS**

DEEP TEST PERFORMED ON AUGUST 28, 29 AND 30, 2017 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED.

SW.1: 0'-6" TOPSOIL, 6"-144" COMPACT BROWN FINE SAND GROUNDWATER SEEP @ 12" 17 INCHES/HOUR  
NO GROUNDWATER OR LEDGE ENCOUNTERED @ 144"

SW.2: 0'-6" TOPSOIL, 6"-80" LIGHT BROWN FINE SANDY LOAM SPOT MOTTLING OBSERVED @ 32" NO GROUNDWATER OR LEDGE ENCOUNTERED

SW.3: 0'-6" TOPSOIL, 6"-96" LIGHT BROWN FINE SANDY LOAM SPOT MOTTLING OBSERVED @ 32" NO GROUNDWATER OR LEDGE ENCOUNTERED

SW.4: 0'-6" TOPSOIL, 6"-96" LIGHT BROWN FINE SANDY LOAM SPOT MOTTLING OBSERVED @ 32" NO GROUNDWATER OR LEDGE ENCOUNTERED

SW.5: 0'-6" TOPSOIL, 6"-108" COMPACT RED BROWN SAND WITH TRACE OF SILT AND COBBLES, 108"-120" MOTTLED GRAY BLACK SAND WITH SOME SILT, MOTTLING @ 108" NO GROUNDWATER OR LEDGE ENCOUNTERED

SW.6: 0'-6" TOPSOIL, 6"-54" MEDIUM BROWN FINE SAND WITH SILT AND TRACE OF GRAVEL, 54"-96" COMPACT MEDIUM BROWN FINE SAND WITH SILT AND TRACE OF GRAVEL, 96"-120" DARK GRAY COMPACT SAND WITH SILT, 120"-126" DARK GRAY COMPACT SAND WITH SILT, MOTTLING @ 126" NO GROUNDWATER OR LEDGE ENCOUNTERED

SW.7: 0'-3" TOPSOIL, 3"-42" LIGHT BROWN MODERATELY COMPACT FINE SAND WITH TRACE OF SILT, 42"-90" COMPACT LIGHT BROWN FINE SAND WITH TRACE OF SILT AND GRAVEL, MOTTLING @ 90" NO GROUNDWATER OR LEDGE ENCOUNTERED

**PLANT LIST**

QUANTITY	KEY	BOTANICAL/COMMON NAME	SIZE	ROOT/SPACING
3	AR	Acer rubrum 'October Glory' / October Glory Maple	2" CAL.	B&B/10" O.C. MIN.
8	RA	Rhododendron 'Album' / Album Rhododendron	4"-5" HT.	B&B/6" O.C. MIN.
11	VT	Viburnum trilobum / American Cranberrybush	4"-5" HT.	B&B/6" O.C. MIN.

**SSTS SCHEDULE**

Lot Number	Lot Area (in s.f.)	Deep Test Hole Description	Mottling and/or Ground Water Elevation	Impervious Layer Elevation	Percolation Rate (Min./In.)	S.S.T.S. Area	Required Amount of Absorption Trenches (ft)			R.O.B. Gravel Fill	Curtain Drain	Remarks	
							3 Bedroom	4 Bedroom	5 Bedroom				
1	117,530	D1-1: 0 to 6" Topsoil, 6" to 60" Sandy loam.	N/A	N/A	21 to 30	4x	504	672	840	N/A	N/A	Dosing required for 4 or 5 bedroom residence.	
		D1-2: 0 to 6" Topsoil, 6" to 90" Sandy loam.											
		D1-3: 0 to 6" Topsoil, 6" to 60" Sandy loam, 60" to 90" Compact sandy loam. (Lot 1 testing performed on 10-13-09 by Jack Goldstein, PE and witnessed by WCDOH.)											
2	186,500	D2-1: 0 to 6" Topsoil, 6" to 60" Medium brown moderately compact fine sandy loam, 60" to 84" Compacted medium to fine sandy loam. No groundwater or ledge rock encountered.	Water at 61" (02-3)	N/A	11 to 15	9x	375	500	625	1.5'	800 CY	7' 145'	Dosing required for 4 or 5 bedroom residence. 1' R.O.B. fill required. 7' Curtain drain required.
		D2-2: 0 to 6" Topsoil, 6" to 60" Medium brown moderately compact fine sandy loam, 60" to 84" Compacted medium to fine sandy loam. No groundwater or ledge rock encountered.											
		D2-3: 0 to 6" Topsoil, 6" to 60" Medium brown moderately compact fine sandy loam, 60" to 84" Compacted medium to fine sandy loam. Groundwater at 78". No ledge rock encountered. (Lot 2 testing performed on 8-28-17 by Insite Engineering, Surveying & Landscape Architecture, P.C.)											
3	124,784	D3-1: 0 to 6" Topsoil, 6" to 36" Sandy loam, 36" to 84" Compact sandy loam.	N/A	N/A	31 to 45	7x	600	800	-	N/A	N/A	N/A	Pump system required. R.O.B. fill for grading.
		D3-2: 0 to 6" Topsoil, 6" to 36" Sandy loam, 36" to 84" Compact sandy loam.											
		D3-3: 0 to 6" Topsoil, 6" to 36" Sandy loam, 36" to 84" Compact sandy loam. (Lot 3 testing performed on 10-13-09 by Jack Goldstein, PE and witnessed by WCDOH.)											

**DRAINAGE TABLE**

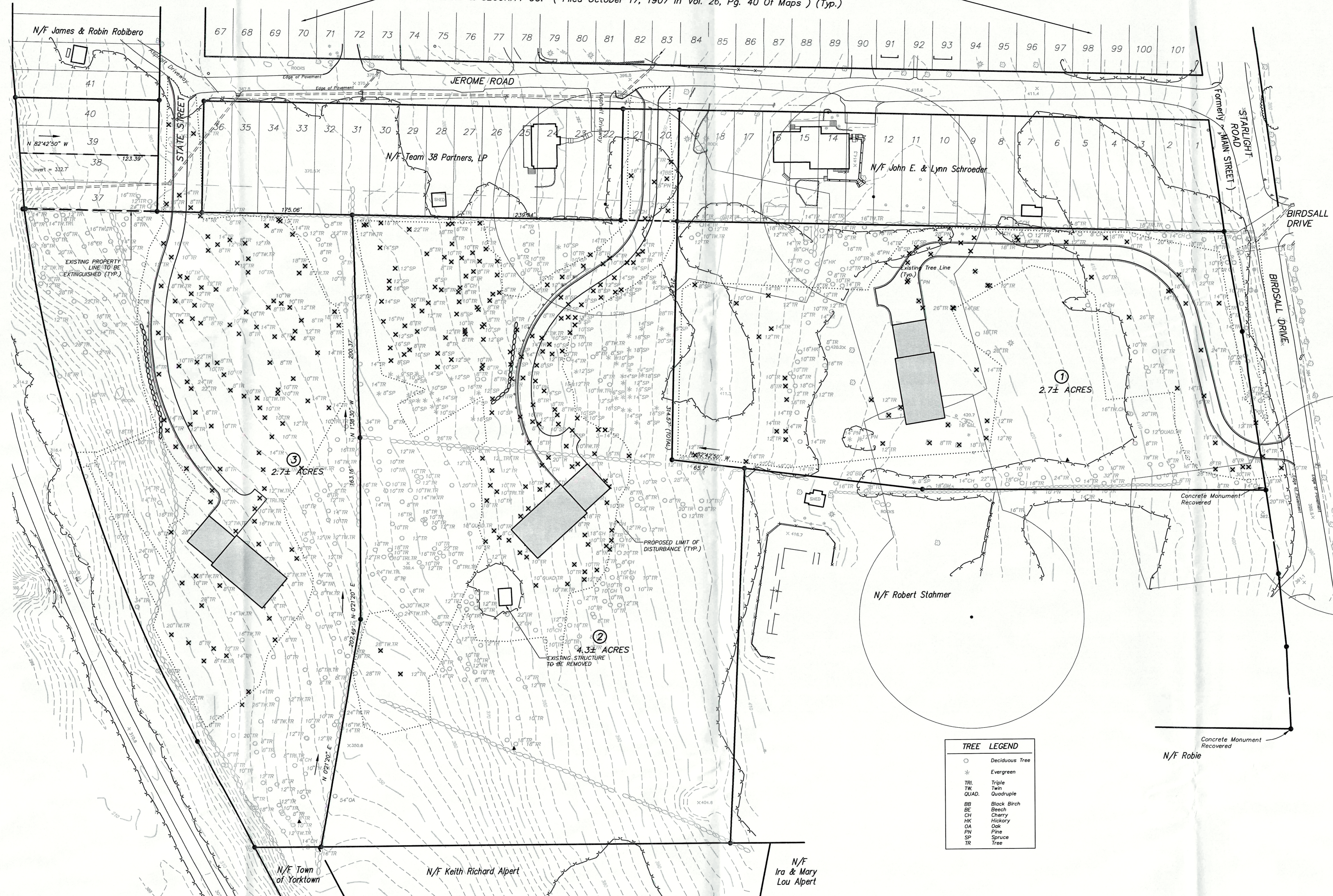
STRUCTURE	INVERT	INLET	PIPE SIZE	LENGTH	SLOPE
DI 7	417.0	413.5	12" HOPE	156 L.F.	8.0
CB 6	402.0	398.5	12" HOPE	123 L.F.	8.1
CB 5	392.0	388.5	12" HOPE	19 L.F.	12.6
HDS 3A	385.0	386.1	12" HOPE	32 L.F.	8.7
SMP 2.1P	383.0	383.0			
DI 3	381.0	387.5	12" HOPE	67 L.F.	3.0
DI 2	380.0	384.5	15" HOPE	40 L.F.	1.8
DI 1	382.0	384.5	15" HOPE	167 L.F.	2.4
DMH 2	385.0	385.0	6" HOPE	51 L.F.	1.0
DI 2B	387.9	386.4	6" HOPE	36 L.F.	0.8
HDS 3A	385.0	386.1	12" HOPE	32 L.F.	8.7
OS 1.1P	359.0	354.0	12" HOPE	27 L.F.	3.7
ES 8	353.0	354.0			
DI 13	397.5	393.5	12" HOPE	122 L.F.	1.1
DI 12	397.5	392.2	12" HOPE	188 L.F.	4.4
DI 11	397.5	394.0	12" HOPE	105 L.F.	7.3
DMH 10	380.0	376.5	12" HOPE	145 L.F.	14.1
FS 3.1	360.0	355.8	10" HOPE	10 L.F.	8.0
HDS 3A	359.8	355.0	12" HOPE	10 L.F.	10.0
ES 9	354.0	354.0			
FS 3.1	360.0	355.8	10" HOPE	58 L.F.	3.1
ES 8A	354.0	354.0			
DI 16	387.0	384.5	8" HOPE	32 L.F.	1.6
DI 11	387.5	384.0	8" HOPE	32 L.F.	1.6
DI 14	398.5	395.5	12" HOPE	37 L.F.	7.3
EX CB	395.4	392.8			
DI 21	346.6	341.0	12" HOPE	57 L.F.	13.2
YD 20	338.0	333.5	12" HOPE	32 L.F.	12.5
FS 1.1	332.5	329.5	12" HOPE	130 L.F.	11.1
ES 18	318.0	318.0			
FS 1.1	332.5	329.8	12" HOPE	25 L.F.	4.4
HDS 1.1P	333.0	327.5	12" HOPE	7 L.F.	14.2
INF. 1.1P	329.5	326.5	6" HOPE	150 L.F.	9.1
ES 17	318.0	318.0			
DI 22	391.0	388.0	8" HOPE	130 L.F.	11.9
ES 23	372.0	372.0			
DI 24	349.5	343.0	12" HOPE	32 L.F.	9.4
DMH 24A	348.0	342.0	12" HOPE	70 L.F.	39.6
ES 25	315.0	315.0			
DI 26	358.5	356.8	12" HOPE	27 L.F.	0.7
EX CB	359.0	356.6			

ALTERATION OF THIS DOCUMENT, IN ANY WAY, CONSTITUTES A VIOLATION OF THE STATE OF NEW YORK EDUCATION LAW § 7209 (2).



# APPROVED IMPROVEMENT PLANS

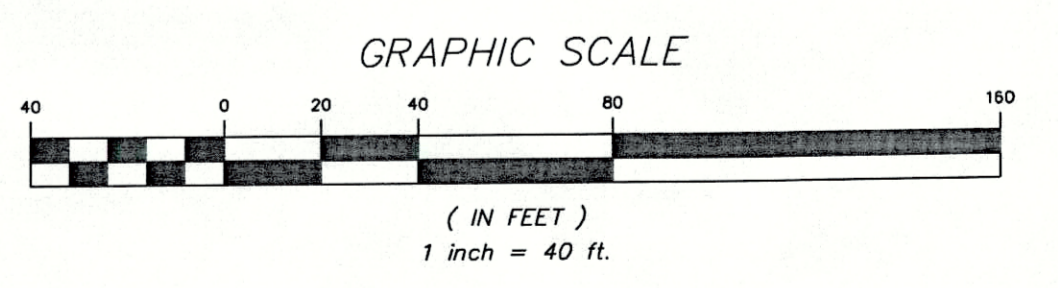
Lands Shown On A Map Entitled "MAP OF MANHATTAN PARK, CROTON LAKE, ... OWNED BY MANHATTAN LAND & SECURITY CO." ( Filed October 17, 1907 In Vol. 26, Pg. 40 Of Maps ) (Typ.)



TREE LEGEND	
○	Deciduous Tree
*	Evergreen
TL	Triple
TW	Twin
QUAD.	Quadruple
BB	Black Birch
BE	Beech
CH	Cherry
HK	Hickory
OA	Oak
PN	Pine
SP	Spruce
TR	Tree

LEGEND	
—	PROPERTY LINE
- - -	EXISTING PROPERTY LINE TO BE EXTINGUISHED
- - -	EXISTING UTILITY POLE W/ OVERHEAD WIRES
○ ○ ○ ○	EXISTING STONE WALL
—	EXISTING TREE LINE
○ EMP	EXISTING ELECTRIC METER POST
○	EXISTING UTILITY POLE
○ 8"TR 10"SP	EXISTING TREE TO REMAIN
✕ 8"TR 10"SP	EXISTING TREE TO BE REMOVED
.....	PROPOSED LIMITS OF DISTURBANCE

- General Notes:**
- Property line and existing features shown hereon obtained from final plot subdivision of property prepared by Baxter Land Surveying dated 7-15-15.
  - Topography shown hereon is based upon aerial photogrammetry provided by Baxter Land Surveying. The contour interval is 2'.
  - There are no wells within 200' of DWTs unless otherwise shown on plan.
  - There are no DWTs within 200' of a proposed well unless otherwise shown on plan.
  - No soil stockpiles, materials or equipment will be stored in areas to be used for the stormwater infiltration practice and for the subsurface sewage treatment system.



NO.	DATE	REVISION	BY
7	6-4-19	REVISED PER TOWN COMMENTS	JMM
6	4-10-19	REVISED PER DEP COMMENTS	JMM
5	3-19-19	REVISED PER DEP COMMENTS	JMM
4	1-23-19	REVISED PER DEP COMMENTS	JMM
3	11-16-18	REVISED PER DEP COMMENTS	JMM
2	7-09-18	REVISED PER DPH COMMENTS	JJR
1	4-24-18	GENERAL REVISIONS	J.E.

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Carmel, NY 10512  
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(845) 225-9717 fax  
www.insite-eng.com

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PROJECT: **STAHMER SUBDIVISION**  
BIRDSALL DRIVE AND JEROME ROAD  
TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

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DRAWING: **EXISTING CONDITIONS AND TREE PLAN**

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PROJECT NUMBER: 16140.100	PROJECT MANAGER: R.D.W.	DRAWING NO. SHEET: 2
DATE: 10-25-17	DRAWN BY: C.T.O.	EX-1
SCALE: 1" = 40'	CHECKED BY: J.L.L.	6

ALTERATION OF THIS DOCUMENT IN ANY WAY, CONSTITUTES A VIOLATION OF THE STATE OF NEW YORK EDUCATION LAW § 2209 (2).



# APPROVED IMPROVEMENT PLANS

## EROSION & SEDIMENT CONTROL NOTES:

1. The owner's field representative (O.F.R.) will be responsible for the implementation and maintenance of erosion and sediment control measures on this site prior to and during construction.
2. All construction activities involving the removal or disposition of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
3. Wherever feasible, natural vegetation should be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time.
4. When land is exposed during development, the exposure shall be kept to the shortest practical period of time. In the areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. Disturbance shall be minimized to the areas required to perform construction.
5. Silt fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
6. All topsoil to be stripped from the area being developed shall be stockpiled and seeded with Lolium perenne or Lolium perenne multiflorum for permanent vegetation cover in temporary; shall be used for winter seeding and Lolium perenne multiflorum shall be used for spring and summer seeding.
  - Seed mixture to be planted between March 21 and May 20, or between August 15 and October 15 or as directed by project representative at a rate of 100 pounds per acre in the following proportions:
    - Kentucky Bluegrass 20%
    - Annual Ryegrass 40%
    - Perennial Ryegrass 20%
    - Annual Ryegrass 20%
  - Mulch: Salt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and anchored according to "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
7. Any areas requiring temporary stabilization during construction shall be seeded with the following at a rate of 30 lbs. per acre shall be used for temporary seeding in spring and/or fall: "Aristo" Winter Rye (cereal rye) shall be used for temporary seeding in late fall and winter.
8. Grass seed mix may be applied by either mechanical or hydroseeding methods. Hydroseeding shall be performed in accordance with the current edition of the "NYSDOT Standard Specification, Construction and Materials, Section 810-3.02, Method No. 11."
9. Cut or fill slopes steeper than 2:1 shall be stabilized after grading with Curlex I Single Net Erosion Control Blanket, or approved equal.
10. Paved roadways shall be kept clean at all times.
11. The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
12. All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
13. Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond or discharge into other drainage systems.
14. Erosion and sediment control measures shall be inspected and maintained on a daily basis by the O.F.R. to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all straw bales and silt fences are intact. Any failure of erosion and sediment control measures shall be reported by the contractor and inspected for approval by the O.F.R. and/or site engineer within 24 hours.
15. Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the O.F.R.
16. Cut and fill shall not endanger adjoining property, nor divert water onto the property of others.
17. All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
18. The O.F.R. shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rainstorms.
19. As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer and for the Town Engineer shall be installed by the contractor.
20. Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.

## REQUIRED EROSION CONTROL SWPPP CONTENTS:

- Pursuant to the NYSDDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-15-002), all Stormwater Pollution Prevention Plans (SWPPP) shall include erosion and sediment control practices designed in conformance with the most current version of the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." Where erosion and sediment control practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of required SWPPP components is provided in accordance with Part III.B.1-a-i of General Permit GP-0-15-002:
- a. Background information: The subject project consists of a 3 lot single family residential subdivision.
  - b. Site map / construction drawing: These plans serve to satisfy this SWPPP requirement.
  - c. Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Paxton Fine Sandy Loam (Pax, Pvc & Pnd), Chatfield-Hollis, Rock Outcrop (CuD), and Charlton-Chatfield Complex (C/C) as identified on the Soil Conservation Service Web Soil Survey. These soil types belong to the Hydrologic Soil Group "B" and "C".
  - d. Construction phasing plan / sequence of operations: The Construction Sequence and Erosion and Sediment Control Maintenance Schedule has been provided. The Sedimentation and Erosion Control Notes contained herein outline a general sequence of operations for the proposed project. In general all erosion and sediment control facilities shall be installed prior to commencement with land disturbing activities, and areas of disturbance shall be limited to the shortest period of time as practicable.
  - e. Description of erosion and sediment control practices: This plan, and details / notes shown herein serve to satisfy this SWPPP requirement.
  - f. Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and details provided herein identify temporary and permanent stabilization measures to be employed with respect to specific elements of the project, and at the various stages of development.
  - g. Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.
  - h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices: The details and Erosion and Sediment Control Notes serve to satisfy this SWPPP requirement.
  - i. An inspection schedule: Inspections are to be performed twice weekly and by a qualified professional as required by the General Permit (GP-0-15-002). In addition the NYSDDEC Trained Contractor shall perform additional inspections as cited in the Sedimentation and Erosion Control Notes.
  - j. A description of pollution prevention measures that will be used to control litter, construction chemicals and construction debris: In general, all construction litter / debris shall be collected and removed from the site. The general contractor shall supply either waste barrels or dumpster for proper waste disposal. Any construction chemicals utilized during construction shall either be removed from site daily by the contractor or stored in a structurally sound and weatherproof building. No hazardous waste shall be disposed of onsite, and shall ultimately be disposed of in accordance with all federal, state and local regulations. Material Safety Data Sheets (MSDS), material inventory, and emergency contact numbers shall be maintained by the general contractor for all construction chemicals utilized onsite. Finally, temporary sanitary facilities (portable toilets) shall be provided onsite during the entire length of construction, and inspected weekly for evidence of leaking holding tanks.
  - k. A description and location of any stormwater discharges associated with industrial activity other than construction at the site: There are no known industrial stormwater discharges present or proposed at the site.

## CONSTRUCTION SEQUENCE:

The following construction sequence is intended to be used on each lots specific construction. Individual lot construction may occur simultaneously or sequentially.

### LOT #1 CONSTRUCTION SEQUENCE:

1. Stake out limit of disturbance, establish staging area and mark trees to be removed.
2. Septic Area shall be cordoned off with construction fence prior to start of site work.
3. Install silt fence in general locations indicated on the plan.
4. Install stabilized construction entrance/anti-tracking pad at driveway entrance.
5. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
6. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
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19. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
20. Strip and stockpile topsoil on site for later use in lawn and landscape areas.

### LOT #2 CONSTRUCTION SEQUENCE:

1. Stake out limit of disturbance, establish staging area and mark trees to be removed.
2. Septic and Infiltration Basin shall be cordoned off with construction fence prior to start of site work.
3. Install silt fence in general locations indicated on the plan.
4. Install stabilized construction entrance/anti-tracking pad at driveway entrance.
5. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
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20. Strip and stockpile topsoil on site for later use in lawn and landscape areas.

### LOT #3 CONSTRUCTION SEQUENCE:

1. Stake out limit of disturbance, establish staging area and mark trees to be removed.
2. Septic and Subsurface Infiltration Areas shall be cordoned off with construction fence prior to start of site work.
3. Install silt fence in general locations indicated on the plan.
4. Install stabilized construction entrance/anti-tracking pad at driveway entrance.
5. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
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20. Strip and stockpile topsoil on site for later use in lawn and landscape areas.

## SOIL RESTORATION REQUIREMENTS

TYPE OF DISTURBANCE	SOIL RESTORATION REQUIREMENTS
Areas where topsoil is stripped only - no change in grade	Aerated and apply 6 inches of topsoil
Areas of cut or fill	Apply Full Soil Restoration <sup>1</sup>
Heavy traffic areas on-site (especially in a zone 5-25 feet around buildings but not within a 5-foot perimeter around foundation walls)	Apply Full Soil Restoration (decompaction and compost Enhancement) <sup>2</sup>
Areas where Reduction and/or Infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.

## REQUIRED POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICE COMPONENTS:

1. Pursuant to the NYSDDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-15-002), all construction projects needing post-construction stormwater management practices shall prepare a SWPPP that also includes practices designed in conformance with the most current version of the technical standard, "New York State Stormwater Management Design Manual (Design Manual)", where post-construction stormwater management practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of SWPPP components is provided in accordance with Part III.B.2-a-i and III.B.3:
- a. Identification of all post-construction stormwater management practices to be constructed as part of the project. This plan, and details/notes shown herein serve to satisfy this SWPPP requirement.
- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice. This plan, and details/notes shown herein serve to satisfy this SWPPP requirement.
- c. A Stormwater Modeling and Analysis Report including pre-development conditions, post-development conditions, the results of the stormwater modeling, a summary table demonstrating that each practice has been designed in conformance with the design criteria, identification of any deviations from the Design Manual, and identification of any design criteria that are not required. The required analysis is provided in the project Stormwater Pollution Prevention Plan.
- d. Soil testing results and locations. This SWPPP requirement is shown herein.
- e. Infiltration testing results. This SWPPP requirement is shown herein.
- f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice. The project Stormwater Pollution Prevention Plan serves to satisfy this requirement.
- g. Enhanced Phosphorus Removal Standards - Beginning on September 30, 2008, all construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the most current version of the technical standard, "New York State Stormwater Management Design Manual". At a minimum, the post-construction stormwater management practices component of the SWPPP shall include items 1.a - 1.f above. The project Stormwater Pollution Prevention Plan project has been sized according to chapter 10 of the Design Manual Enhanced Phosphorus Removal Standards. Please see 1.a - 1.f above.

### LEGEND

	PROPOSED EDGE OF PAVEMENT
	PROPOSED BELIUM BLOCK CURB
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED SILT FENCE
	PROPOSED CONSTRUCTION FENCE
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED TEMPORARY SOIL STOCKPILE
	PROPOSED 4" PVC SDR 35 ROCK LEADER DRAIN
	PROPOSED 4" PVC SDR 35 FOOTING DRAIN
	PROPOSED END SECTION
	PROPOSED RIP RAP PAD

1. Aeration includes the use of machines such as tractor-drawn implements with cutters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.
2. Per "Deep Ripping and De-compaction, DEC 2008".
3. Compost shall be aged, from plant derived materials. Free of viable weed seeds, have no viable free water or dust produced when handling, pass through a half inch screen and have a pH suitable to grow desired plants.



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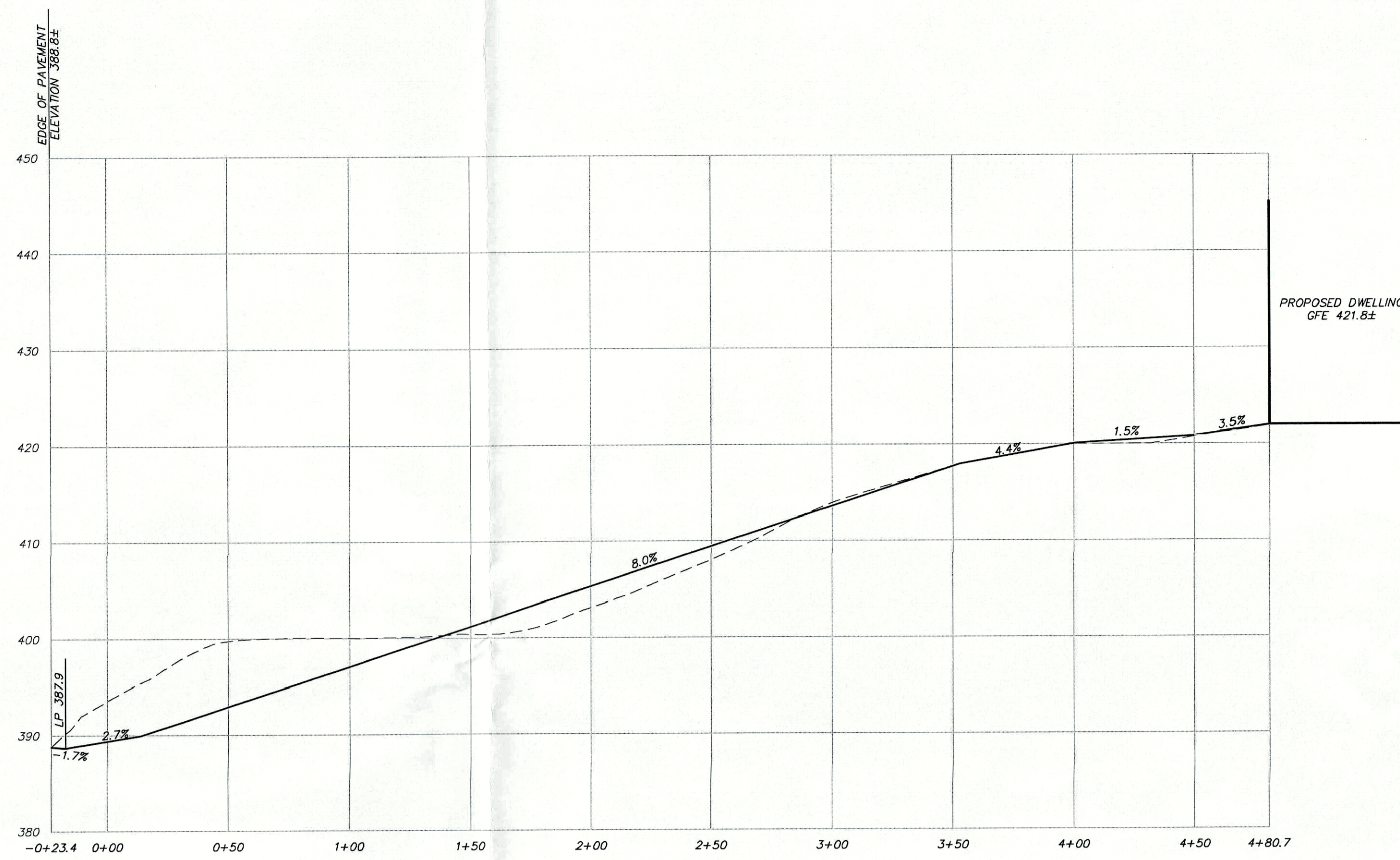
3 Garrett Place  
Carmel, NY 12512  
(845) 225-8990  
(845) 225-8990  
www.insite-eng.com

PROJECT: <b>STAMMER SUBDIVISION</b>		DRAWING NO. <b>EC-1</b>		SHEET <b>3</b>	
DRAWING: <b>EROSION &amp; SEDIMENT CONTROL PLAN</b>		PROJECT MANAGER: <b>R.D.W.</b>		CHECKED BY: <b>J.L.L.</b>	
PROJECT NUMBER: <b>16140.100</b>	DATE: <b>9-16-16</b>	DRAWN BY: <b>C.T.Q.</b>	CHECKED BY: <b>J.L.L.</b>	SCALE: <b>1" = 40'</b>	

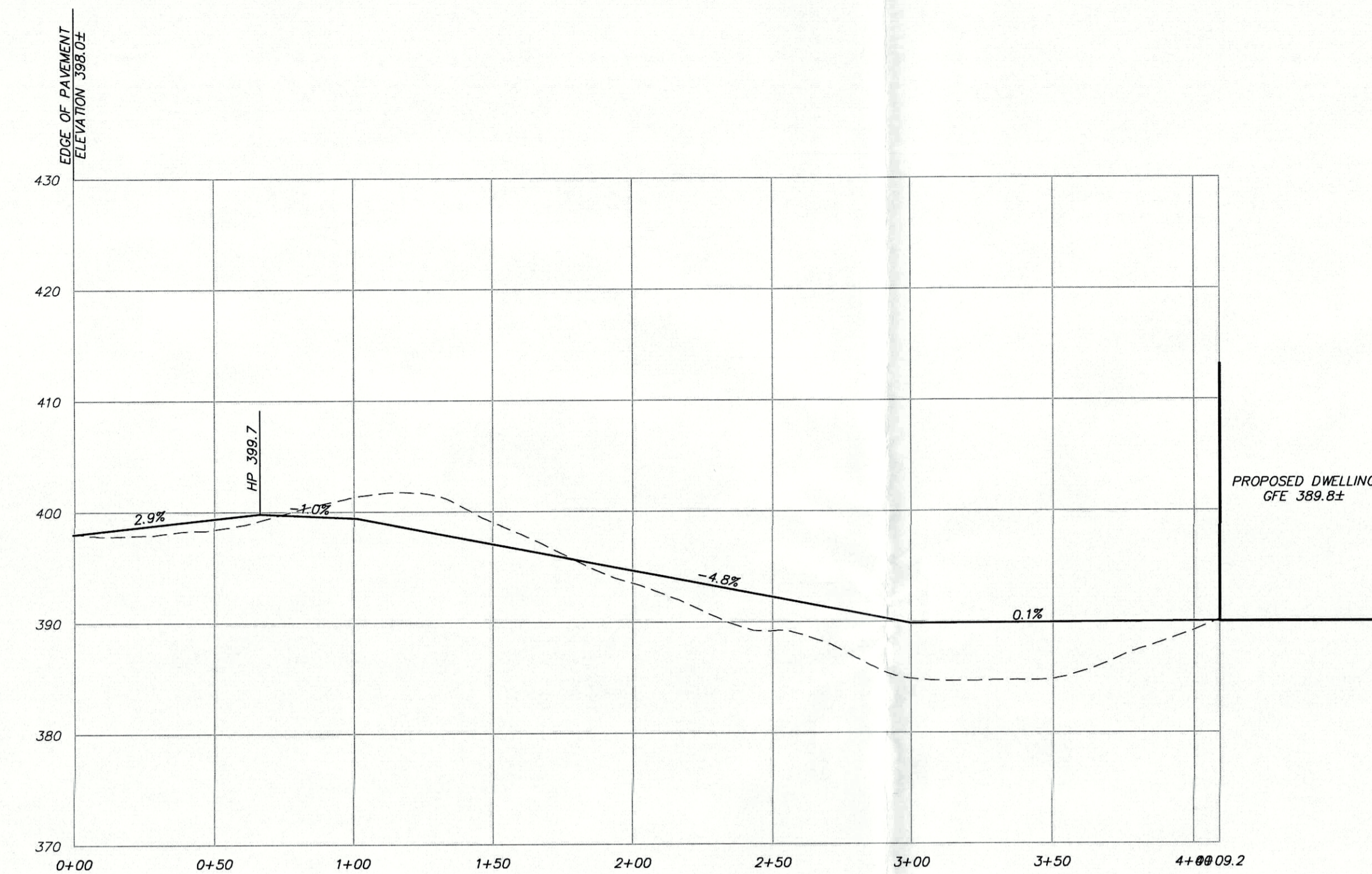
ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2009 OF ARTICLE 143 OF THE EDUCATION LAW.



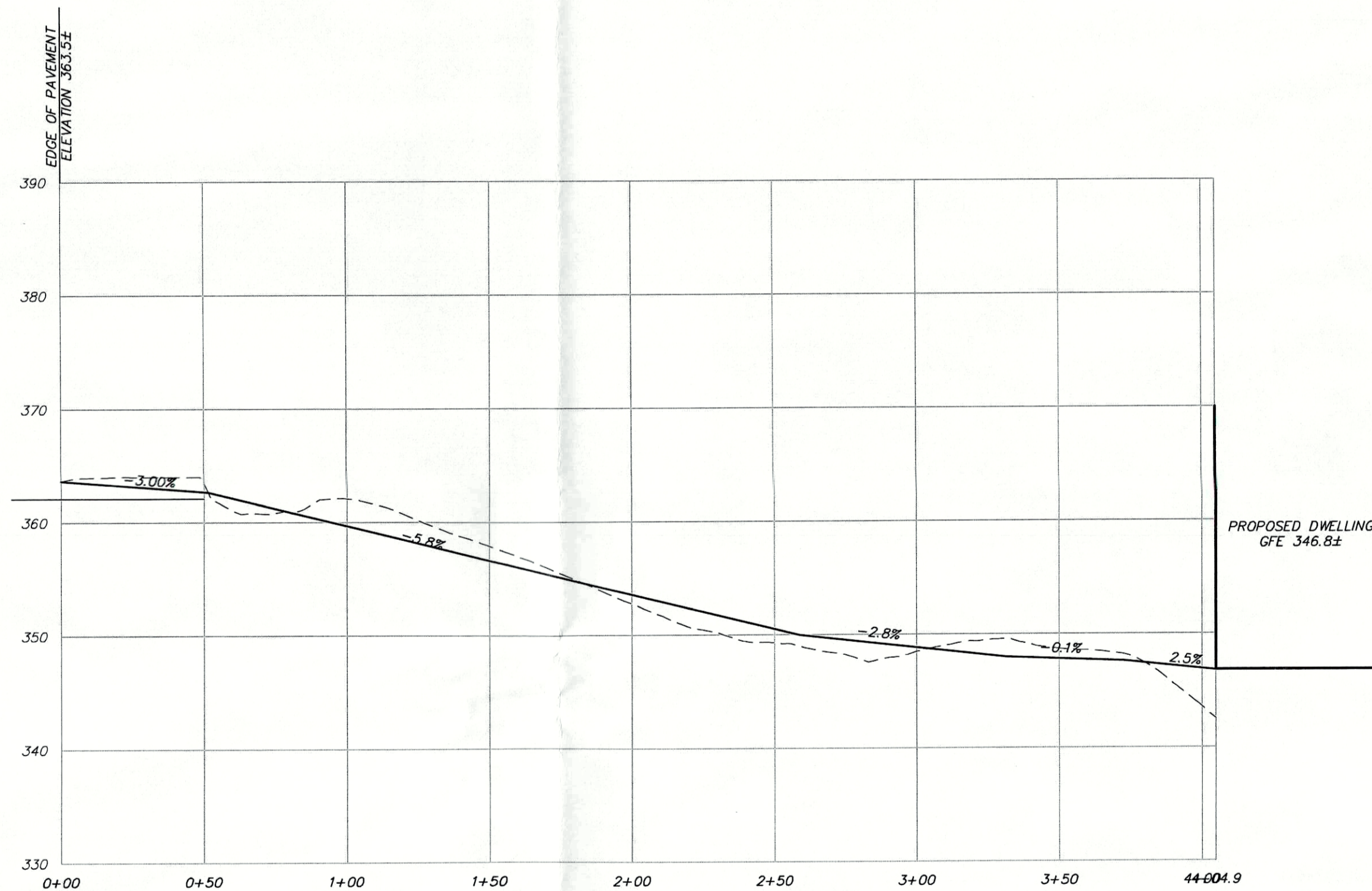
# APPROVED IMPROVEMENT PLANS



**LOT 1 - DRIVEWAY PROFILE**  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'



**LOT 2 - DRIVEWAY PROFILE**  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'



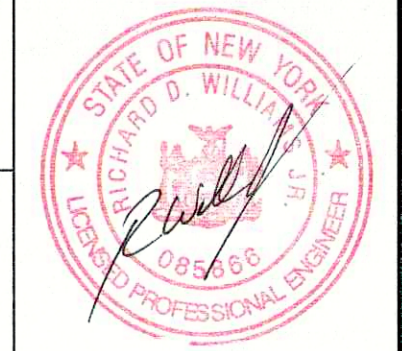
**LOT 3 - DRIVEWAY PROFILE**  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'

NO.	DATE	REVISION	BY
5	6-4-19	REVISED PER TOWN COMMENTS	JWM
4	4-10-19	REVISED PER DEP COMMENTS	JWM
3	1-23-19	REVISED PER DEP COMMENTS	JWM
2	11-16-18	REVISED PER DEP COMMENTS	JWM
1	4-24-18	GENERAL REVISIONS	J.L.L.

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PROJECT: **STAMMER SUBDIVISION**  
 BRISALL DRIVE AND JEROME ROAD  
 TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

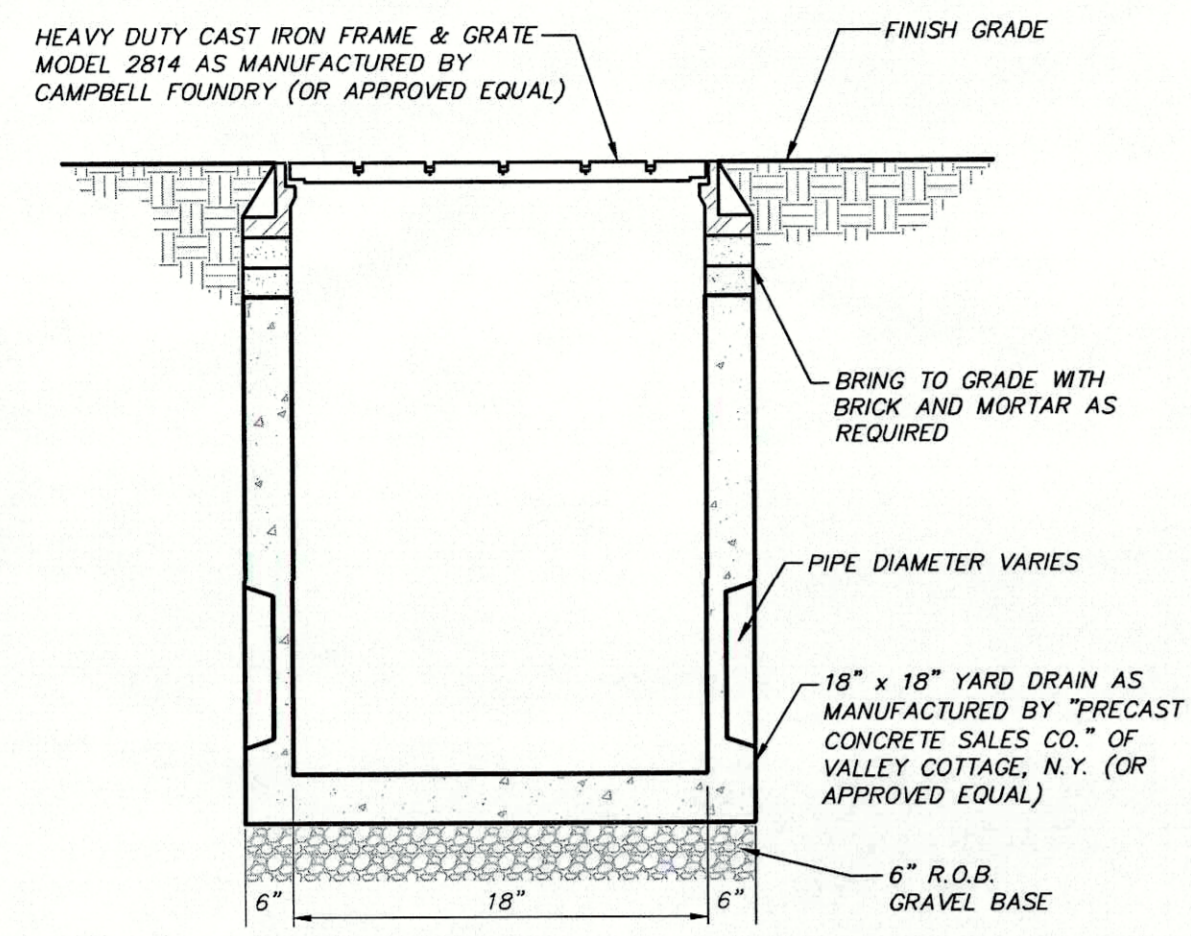
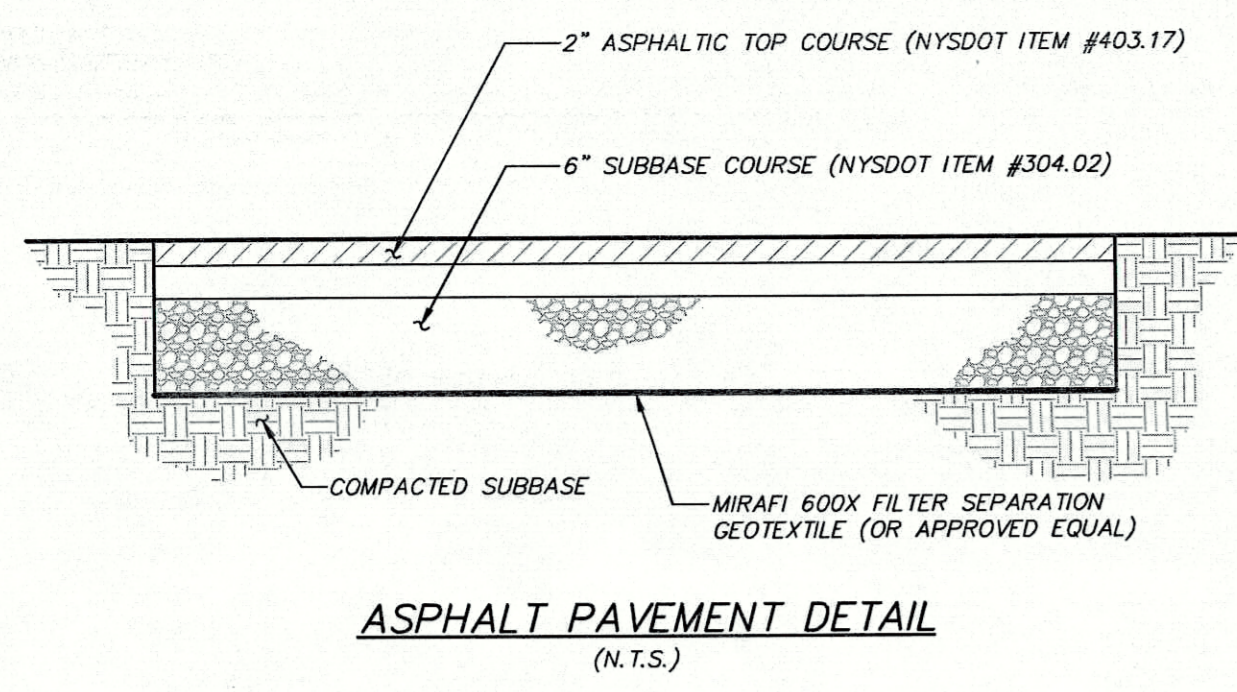
DRAWING: **PROFILES**



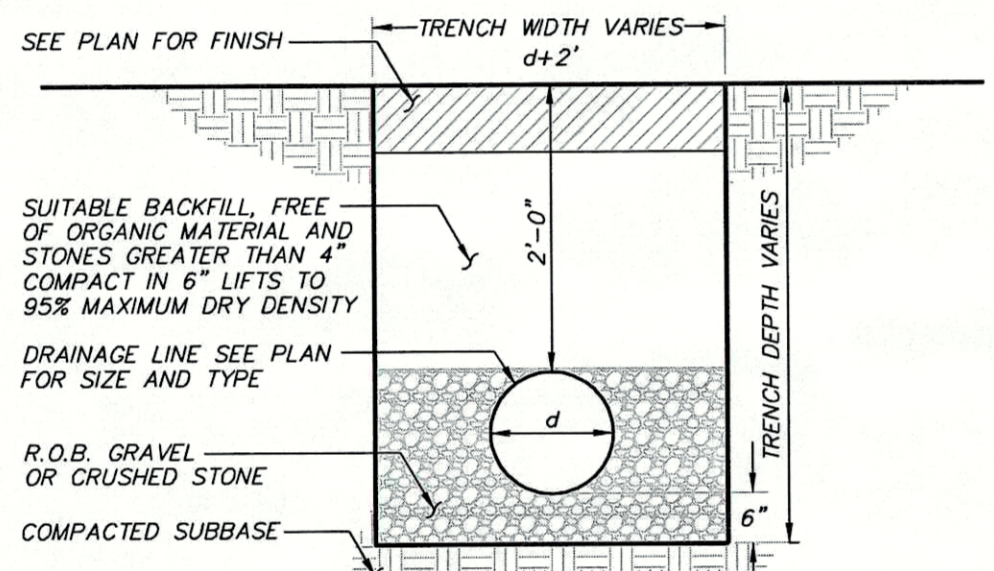
PROJECT NUMBER	PROJECT MANAGER	R.D.W.	DRAWING NO.	SHEET
16140.100			PR-1	4
DATE	DRAWN BY	C.T.O.	CHECKED BY	BY
10-25-17			J.L.L.	6
SCALE	1" = 40'			

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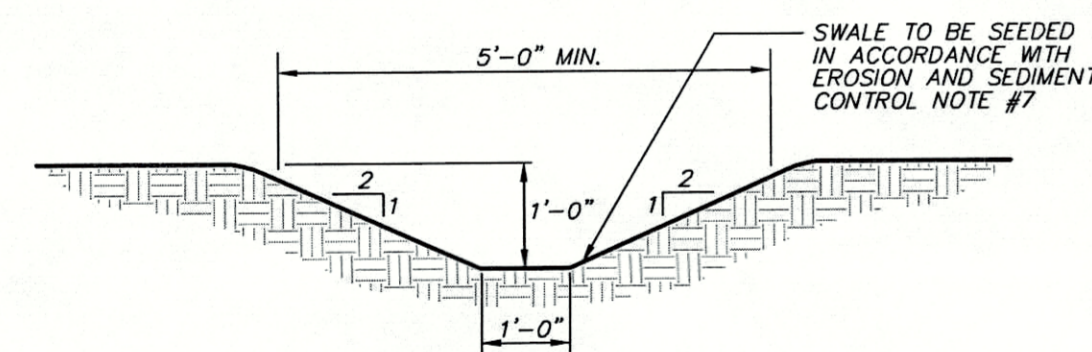




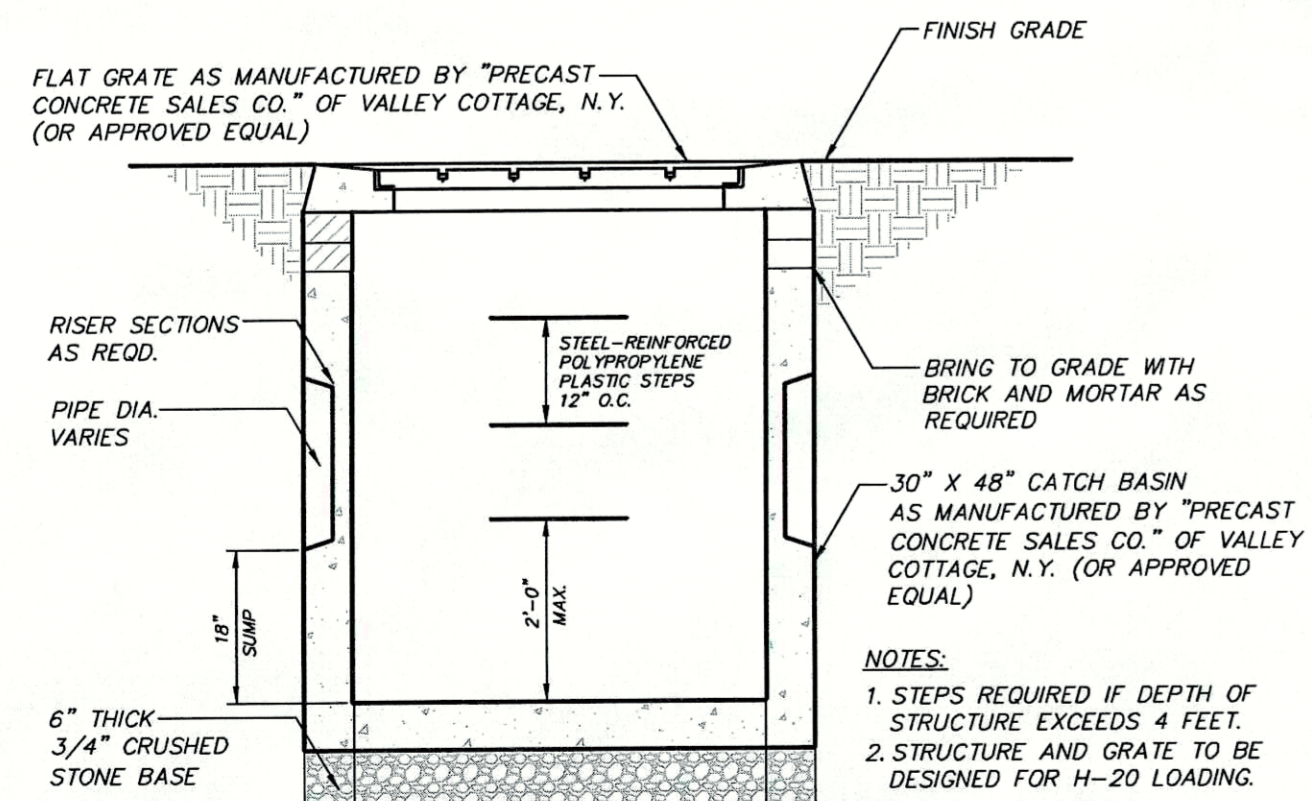
18" X 18" YARD DRAIN DETAIL (N.T.S.)



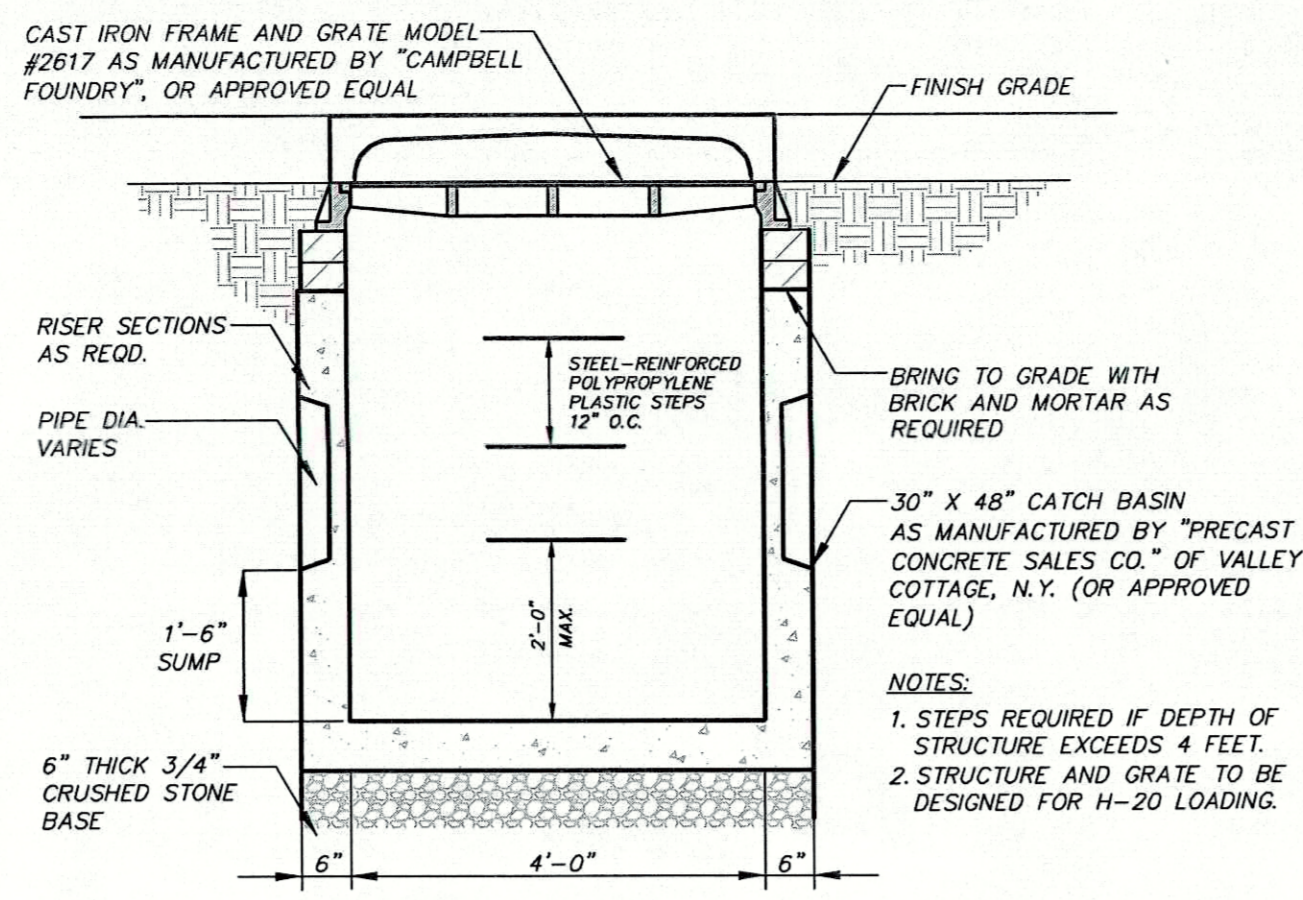
DRAINAGE LINE TRENCH DETAIL (N.T.S.)



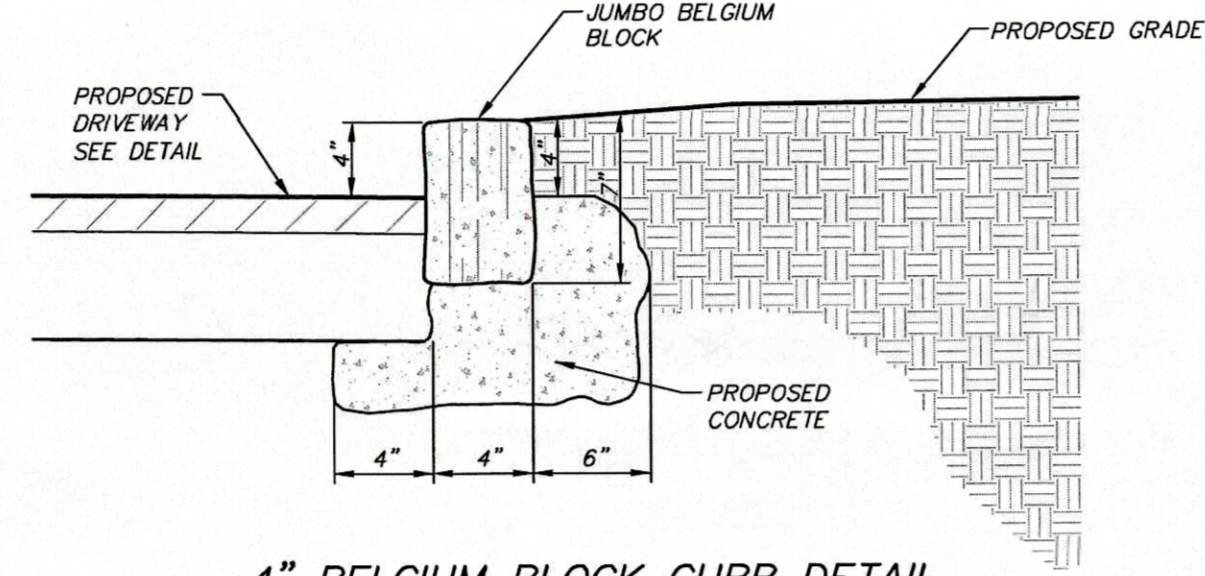
GRASS SWALE DETAIL (N.T.S.)



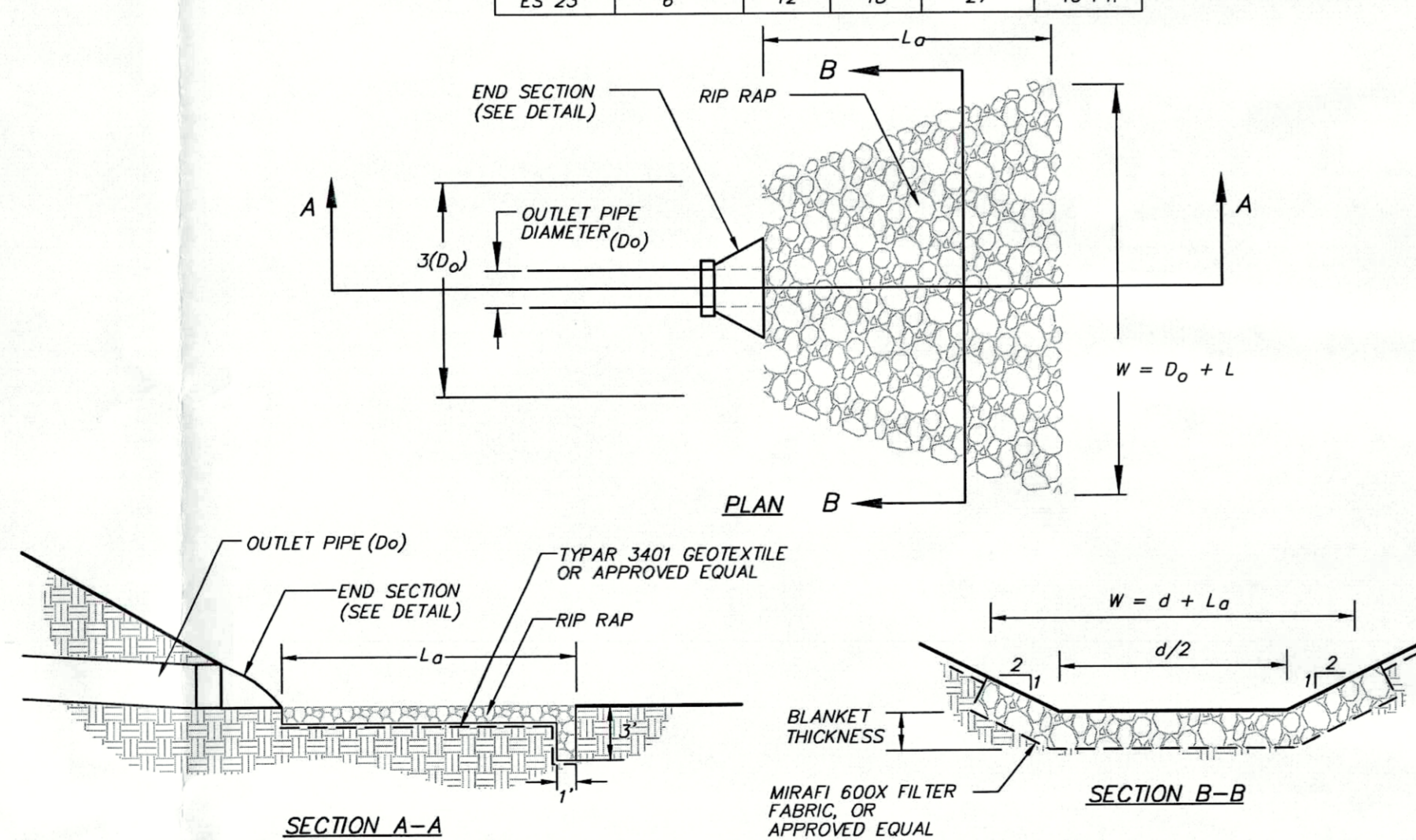
DRAIN INLET DETAIL (N.T.S.)



CATCH BASIN DETAIL (N.T.S.)

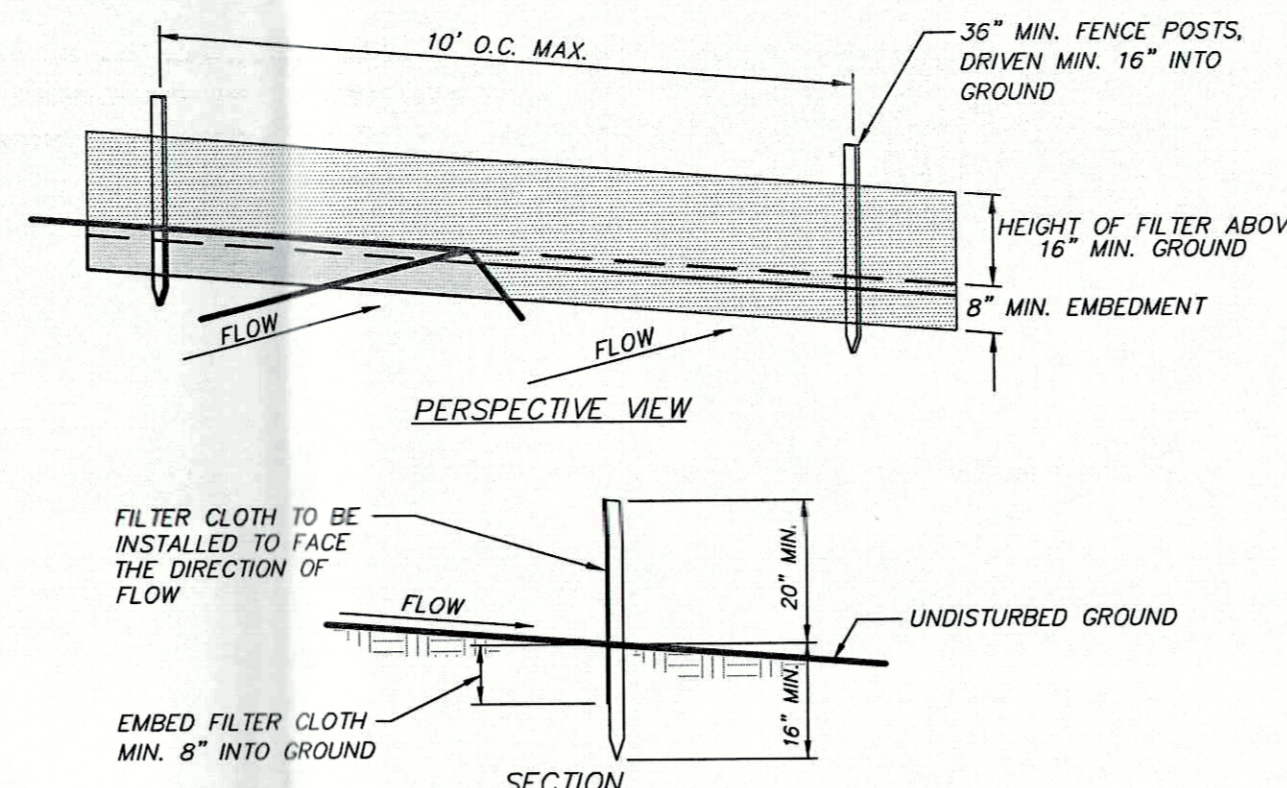


4" BELGIUM BLOCK CURB DETAIL (N.T.S.)



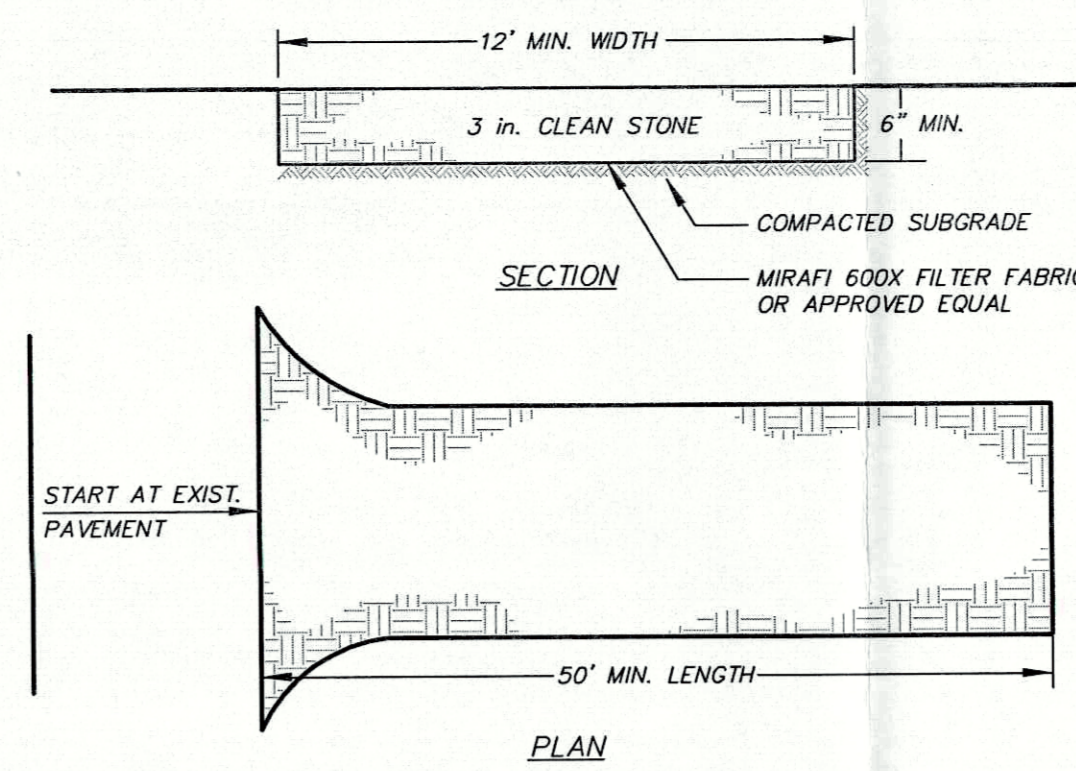
ROCK OUTLET PROTECTION DETAIL (N.T.S.)

END SECTION	OUTLET PIPE DIAMETER (Do)	MAX. RIP RAP SIZE	MIN. RIP RAP THICKNESS	LA (MN.)	
ES 8	12"	12"	18"	27"	10 FT.
ES 8A	10"	12"	18"	27"	10 FT.
ES 9	12"	12"	18"	27"	10 FT.
ES 17	12"	12"	18"	27"	10 FT.
ES 18	12"	12"	18"	27"	15 FT.
ES 25	6"	12"	18"	27"	10 FT.
ES 23	6"	12"	18"	27"	10 FT.



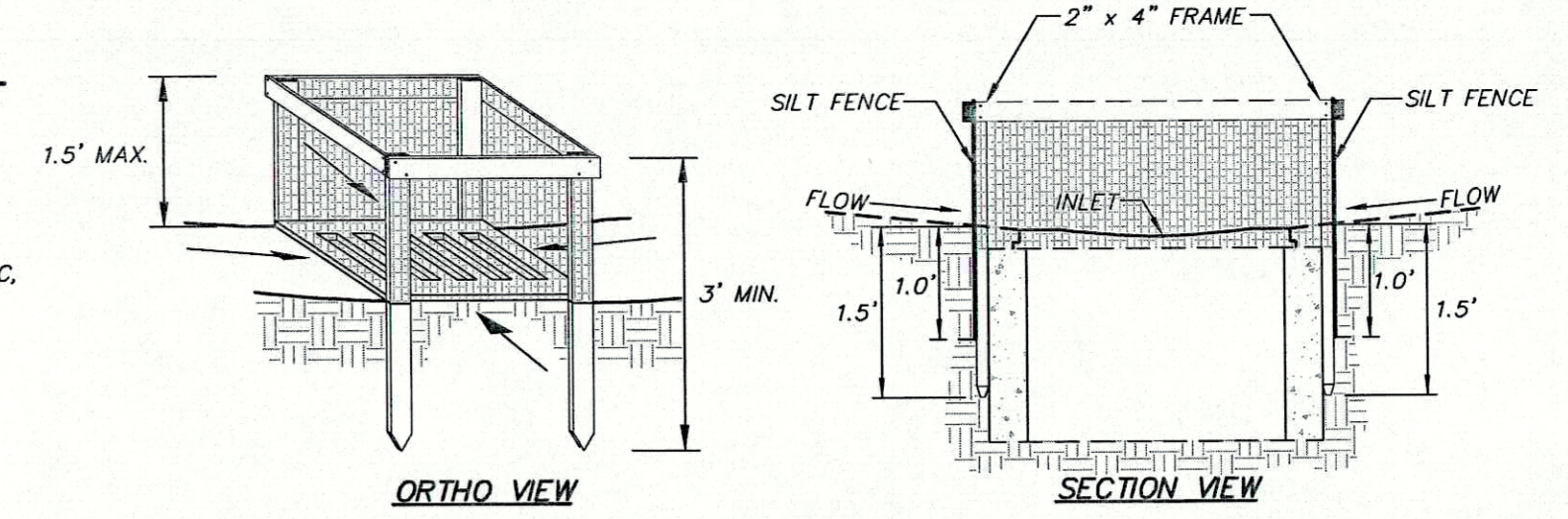
SILT FENCE DETAIL (N.T.S.)

- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
  2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



STABILIZED CONSTRUCTION ENTRANCE DETAIL (N.T.S.)

- INSTALLATION NOTES**
1. STONE SIZE - USE 3" STONE
  2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 30 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
  3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
  4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR.
  5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
  6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
  7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
  8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



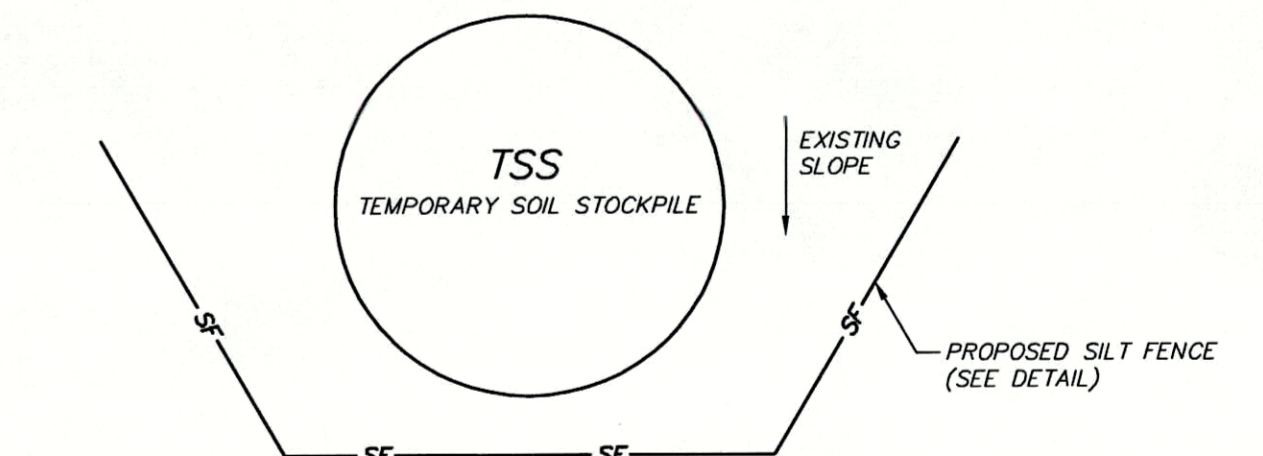
FILTER FABRIC INLET PROTECTION DETAIL (N.T.S.)

- INSTALLATION NOTES**
1. FILTER FABRIC SHALL HAVE AN EGS OF 40-85. BURLAP MAYBE USED FOR SHORT TERM APPLICATIONS.
  2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
  3. STAKE MATERIALS WILL BE STANDARD 2" X 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
  4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
  5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
  6. A 2" X 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

PRACTICE	MONITORING REQUIREMENTS			MAINTENANCE REQUIREMENTS	
	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	-	Inspect	Inspect	Clean/Replace	Remove
STABILIZED CONSTRUCTION ENTRANCE	-	-	Inspect	Clean/Replace Stone and Fabric	Remove
DUST CONTROL	Inspect	-	Inspect	Mulching/Spraying Water	N/A
*VEGETATIVE ESTABLISHMENT	-	Inspect	Inspect	Water/Reseed/Remove	Reseed to 80% Coverage
INLET PROTECTION	-	Inspect	Inspect	Clean/Repair/Replace	Remove
SOIL STOCKPILES	-	Inspect	Inspect	Mulching/Silt Fence Repair	Remove
SWALES	-	Inspect	Inspect	Clean/Mulch/Repair	Mow Permanent Grass/Replace Repair Rip Rap
CONCRETE DRAINAGE STRUCTURES	-	Inspect	Inspect	Clean Sumps/Remove Debris/Repair/Replace	Clean Sumps/Remove Debris/Repair/Replace
PAVEMENT	-	Inspect	Inspect	Clean	Clean
*SEDIMENT TRAP	-	Inspect	Inspect	Clean/Mulch/Repair/Reseed	N/A
STONE CHECK DAM	-	Inspect	Inspect	Remove Silt/Debris and Repair Rip Rap	Remove
CONCRETE TRUCK WASHOUT AREA	-	Inspect	Inspect	Remove Concrete From Site when Full and Re-establish	Remove
LEVEL SPREADER/ROCK OUTLET PROTECTION	-	Inspect	Inspect	Remove Silt/Debris and Repair Rip Rap	Remove Debris and Repair Rip Rap

\* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized. Note: The party responsible for implementation of the maintenance schedule during and after construction, as well as implementation of the long term maintenance plan is: Robert Stahmer, 610 Bridgall Drive, Yorktown Heights, NY 10598 (914) 962-2639 and/or the current owner(s) of the subject property.



- NOTES:**
1. AREA CHOSEN FOR STOCKPILE LOCATION SHALL BE DRY AND STABLE.
  2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
  3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE IMMEDIATELY SEEDED WITH K31 PERENNIAL TALL FESCUE.
  4. ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED ON THE DOWNGRADIENT SIDE.

TEMPORARY SOIL STOCKPILE DETAIL (N.T.S.)

**SMP LONG TERM INSPECTION/MAINTENANCE REQUIREMENTS**

PRACTICE ID	MONTHLY INSPECTION/MAINTENANCE REQUIREMENTS	ANNUAL INSPECTION/MAINTENANCE REQUIREMENTS	INSPECTION/MAINTENANCE AFTER MAJOR STORM EVENTS
Infiltration Basin (3.1P)	Remove debris. Inspect for evidence of erosion. Mow when grass height is greater than 6 inches. Inspect for evidence of standing water and practice dewaters between storms.	Inspect outlet and overflow spillway for evidence of erosion. Inspect the condition of filter bed.	Inspect outlet and overflow spillway for evidence of erosion.
Infiltration System (1.1P)	Not Applicable	Confirm infiltrators dewater within 48 hours	Inspect outlet structures & remove accumulated sediment.
Stormwater Cistern (2.1P)	Not Applicable	Inspect and clear debris/sediment from units and verify operation. Flush or vacuum units to remove sediment as needed. Inspect orifices, inlets & outlets for clogging, & stabilize and/or repair immediately. The cistern will be manually lowered at the end of fall/beginning of the winter season.	Inspect orifices, inlets & outlets for clogging, & stabilize and/or repair immediately. Inspect sediment depths and general condition of units.
Hydro-dynamic Separator	Not Applicable	Remove cover and inspect chamber and discharge pipes. Flush or vacuum accumulated sediment as needed. Refer to Appendix H of the project SWPPP for additional information.	Remove cover and inspect chamber and discharge pipes. Flush or vacuum accumulated sediment as needed. Refer to Appendix H of the project SWPPP for additional information.
Catch Basin / Drain Manhole / Flow Splitter	Not Applicable	Clean sumps/remove debris. Inspect weir wall for deformation and/or repair immediately.	Clean sumps/remove debris. Inspect weir wall for deformation and/or repair immediately.
Drain Inlets / Yard Drains	Clean sumps/remove debris	Clean sumps/remove debris	Clean sumps/remove debris
Grass Swales	Inspect first few months after construction for eroding soils & slumping & repair immediately	Inspect & clean Mow & remove debris & filter. Revegetate as needed. Inspect for & remove accumulated sediment every 5 to 10 years.	Not Applicable
Drainage Pipes	Not Applicable	Clean sumps/remove debris	Clean sumps/remove debris

Note: The party responsible for implementation of the maintenance schedule during and after construction, as well as implementation of the long term maintenance plan is: Robert Stahmer or current owner of each lot 610 Bridgall Drive, Yorktown Heights, NY 10598 (914) 962-2639 and/or the current owner(s) of the subject property.

APPROVED IMPROVEMENT PLANS

NO.	DATE	REVISION	BY
6	6-4-19	REVISED PER TOWN COMMENTS	JMM
5	4-10-19	REVISED PER DEP COMMENTS	JMM
4	1-23-19	REVISED PER DEP COMMENTS	JMM
3	11-16-18	GENERAL REVISIONS	JMM
2	4-24-18	GENERAL REVISIONS	J.L.
1	10-25-17	GENERAL REVISIONS	KMS

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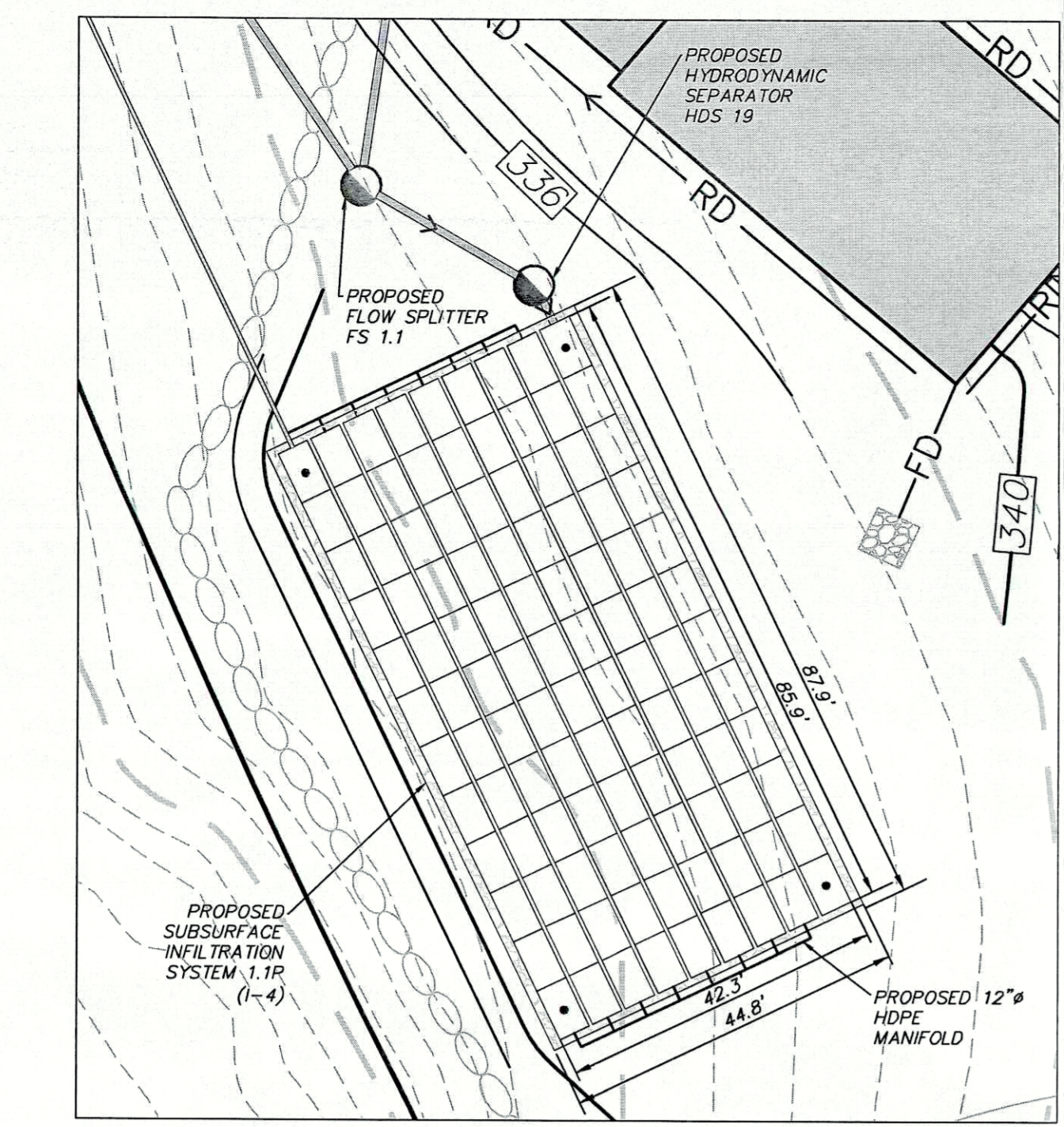
PROJECT: **STAHMER SUBDIVISION**  
BIRDSALL DRIVE AND JEROME ROAD  
TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

DRAWING: **DETAILS**

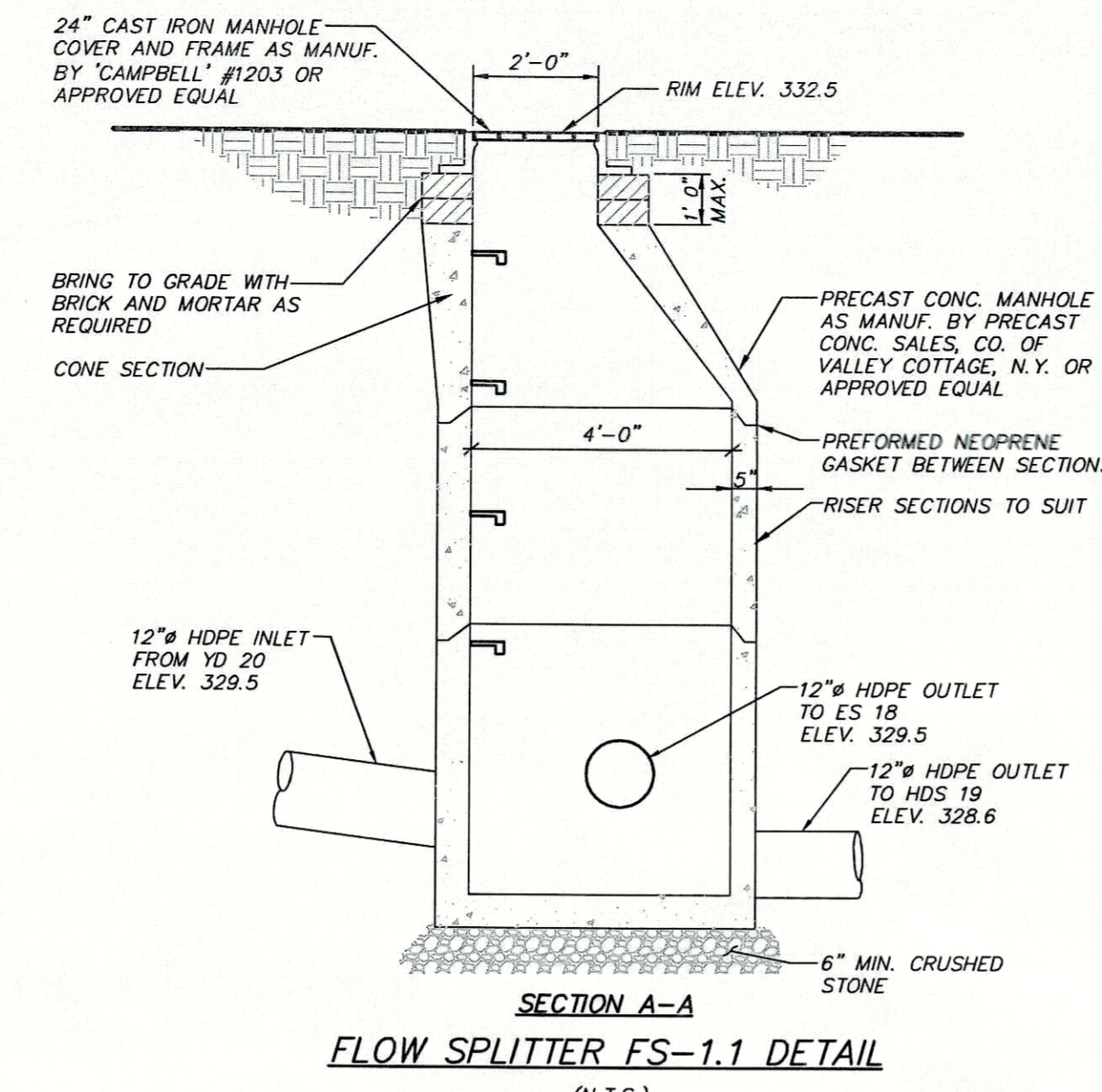
PROJECT NUMBER: 16140.100 PROJECT MANAGER: R.D.W.  
DATE: 10-5-16 DRAWN BY: C.T.Q.  
SCALE: 1" = 40' CHECKED BY: J.L.L.

DRAWING NO. SHEET 5 OF 6  
D-1

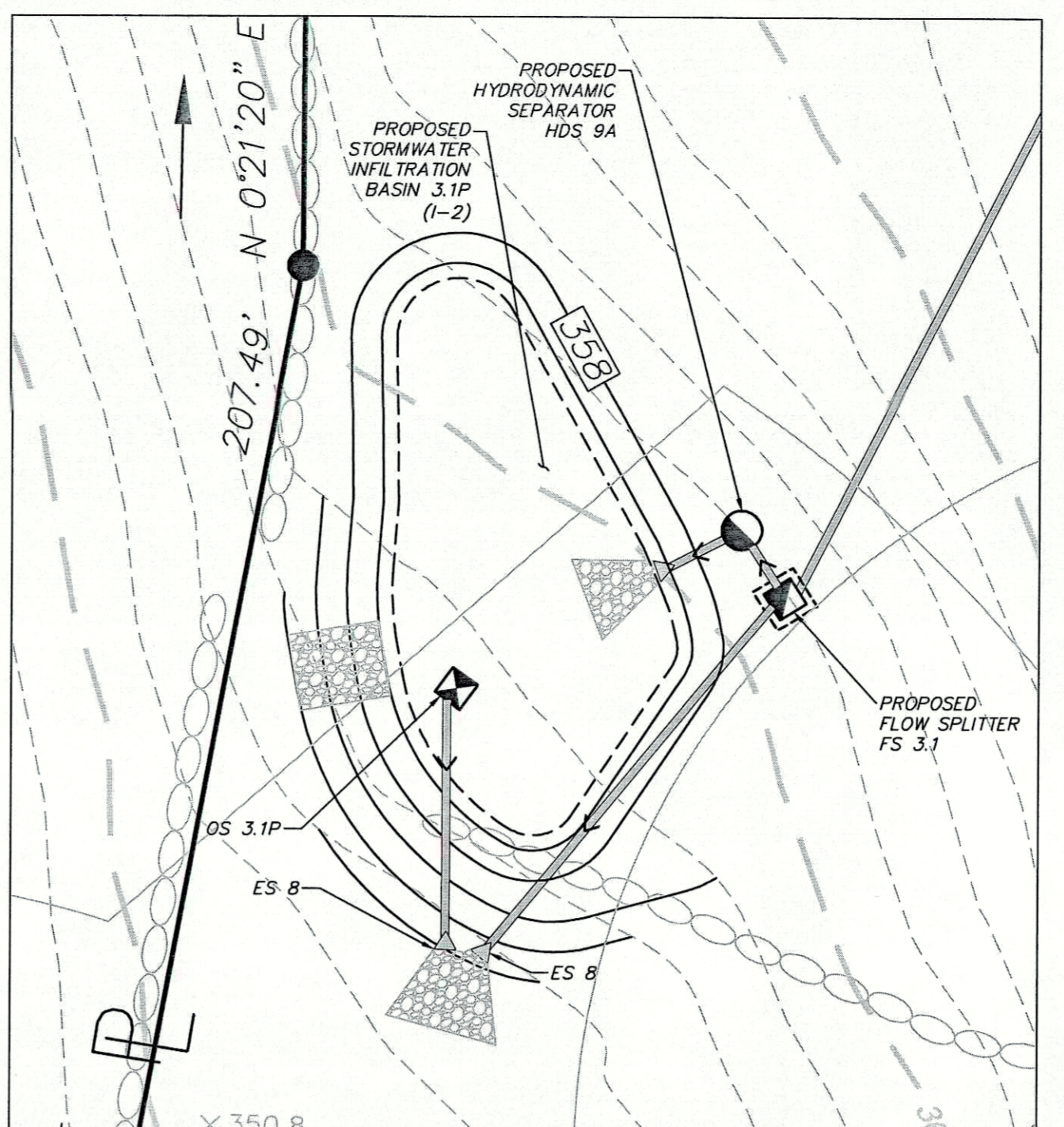




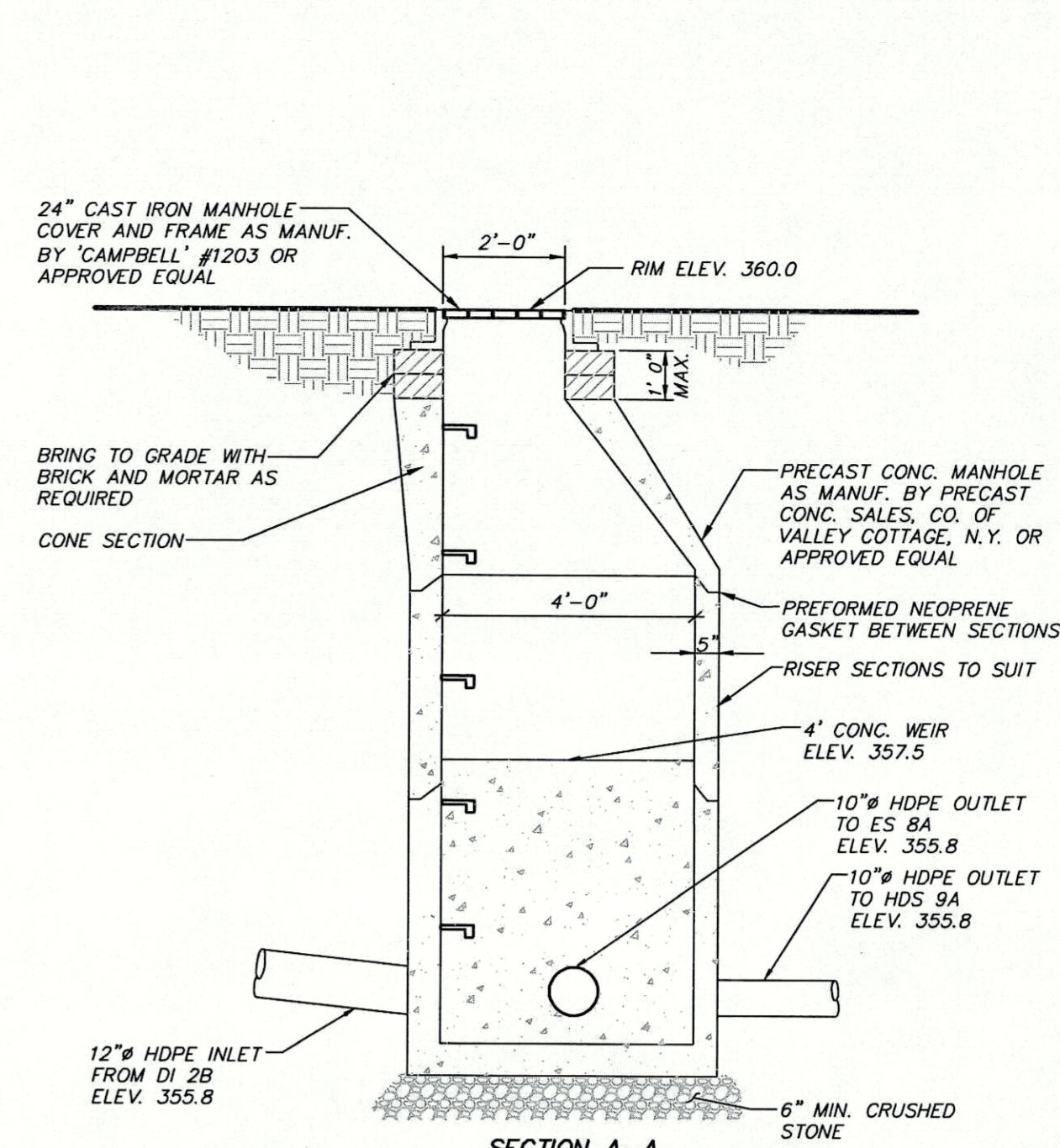
STORMWATER INFILTRATION SYSTEM 1.1P ENLARGED PLAN VIEW  
SCALE: 1" = 20'



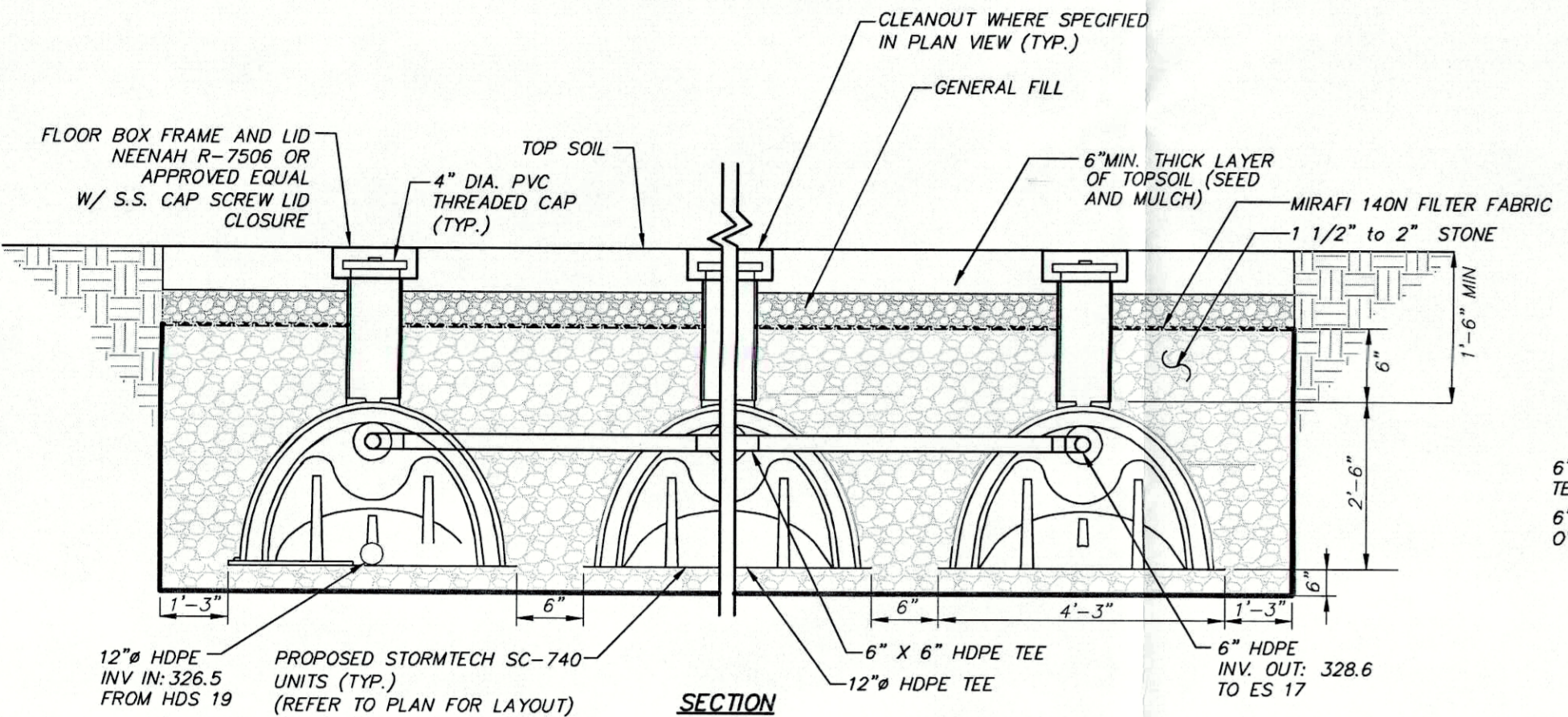
SECTION A-A  
FLOW SPLITTER FS-1.1 DETAIL  
(N.T.S.)



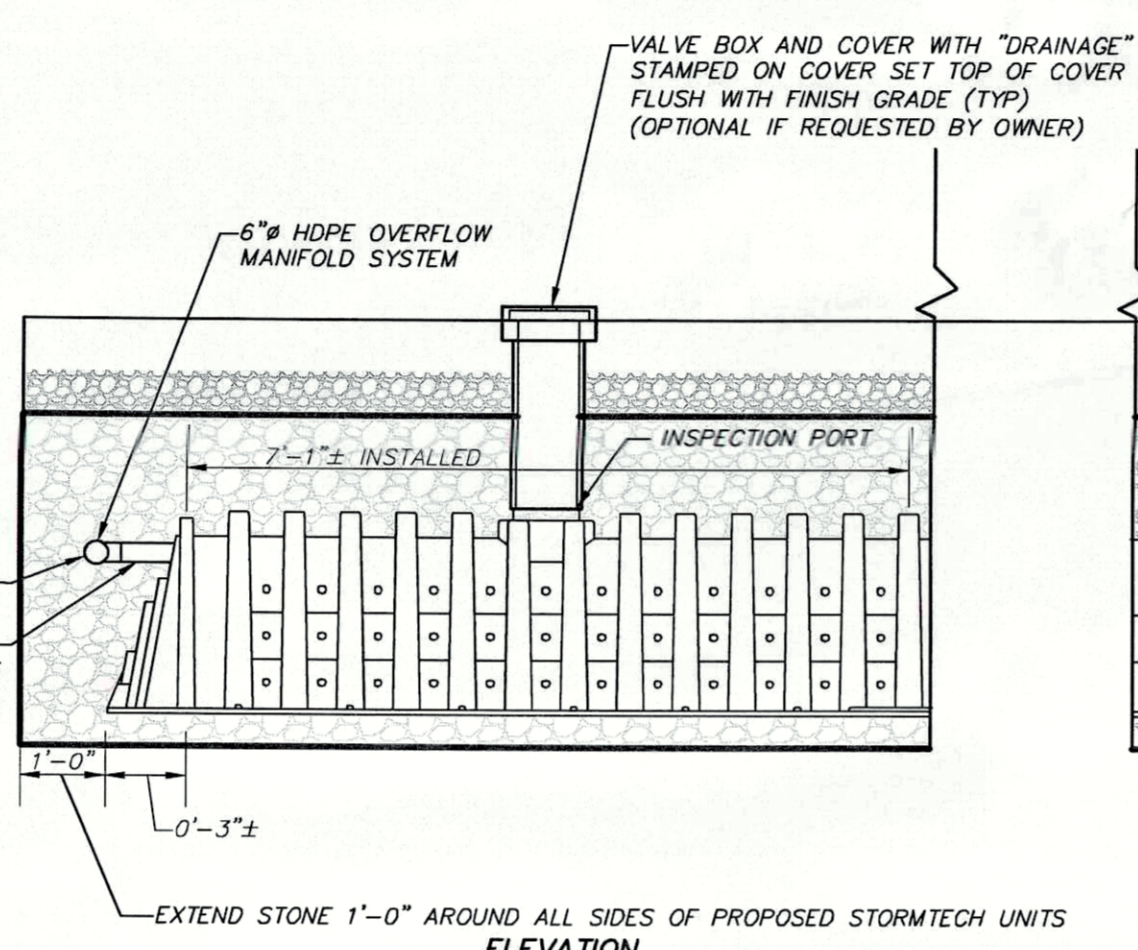
STORMWATER INFILTRATION BASIN 3.1P ENLARGED PLAN VIEW  
SCALE: 1" = 20'



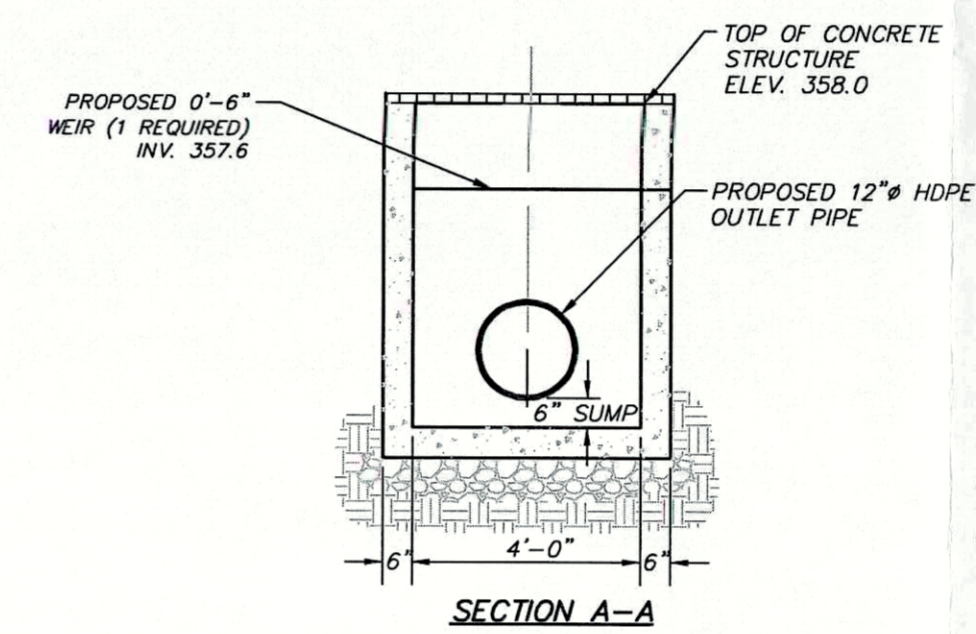
SECTION A-A  
FLOW SPLITTER FS-3.1 DETAIL  
(N.T.S.)



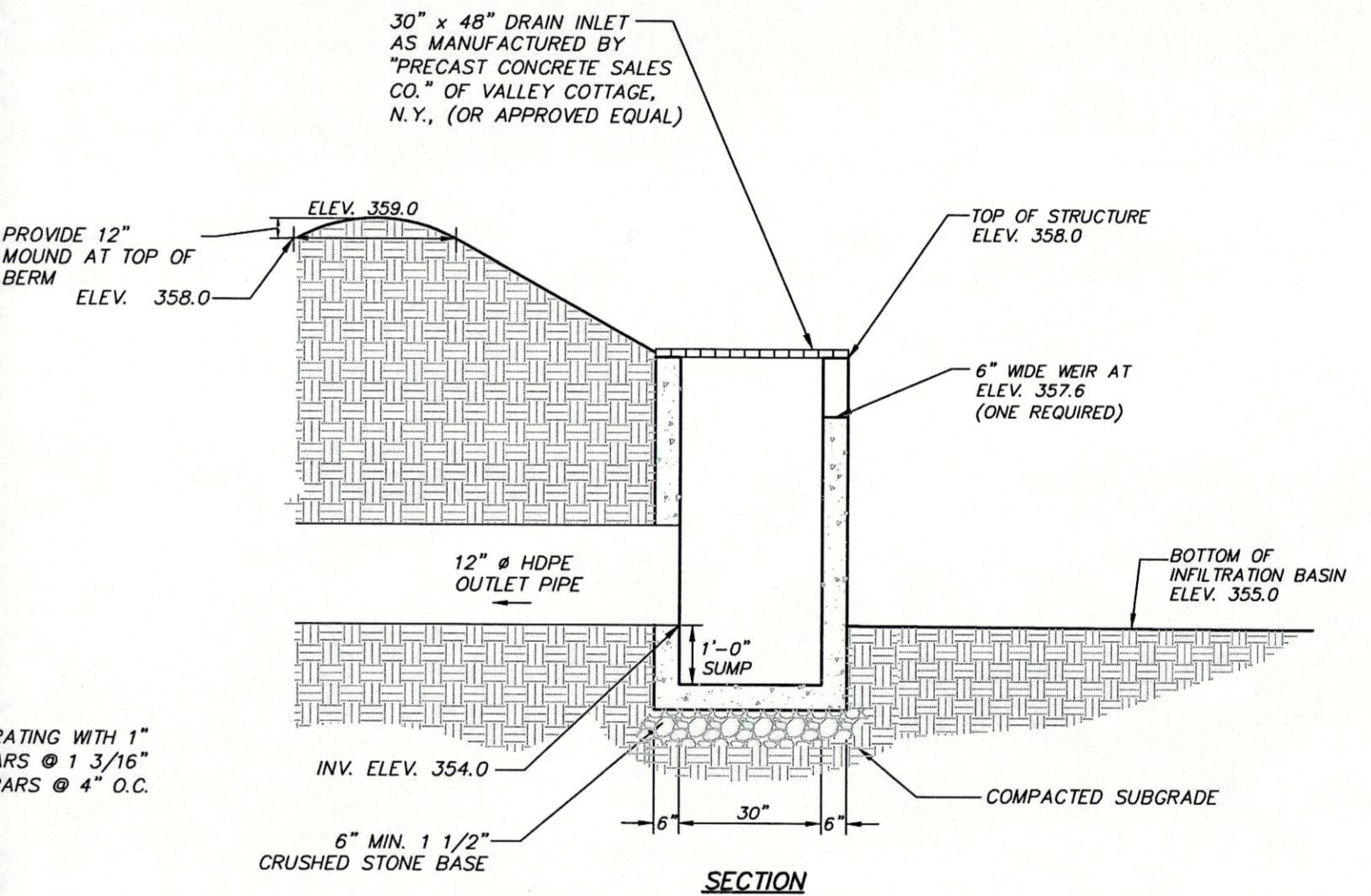
STORMWATER INFILTRATION SYSTEM 1.1P (NYSDEC DESIGN 1-4) DETAIL  
(N.T.S.)



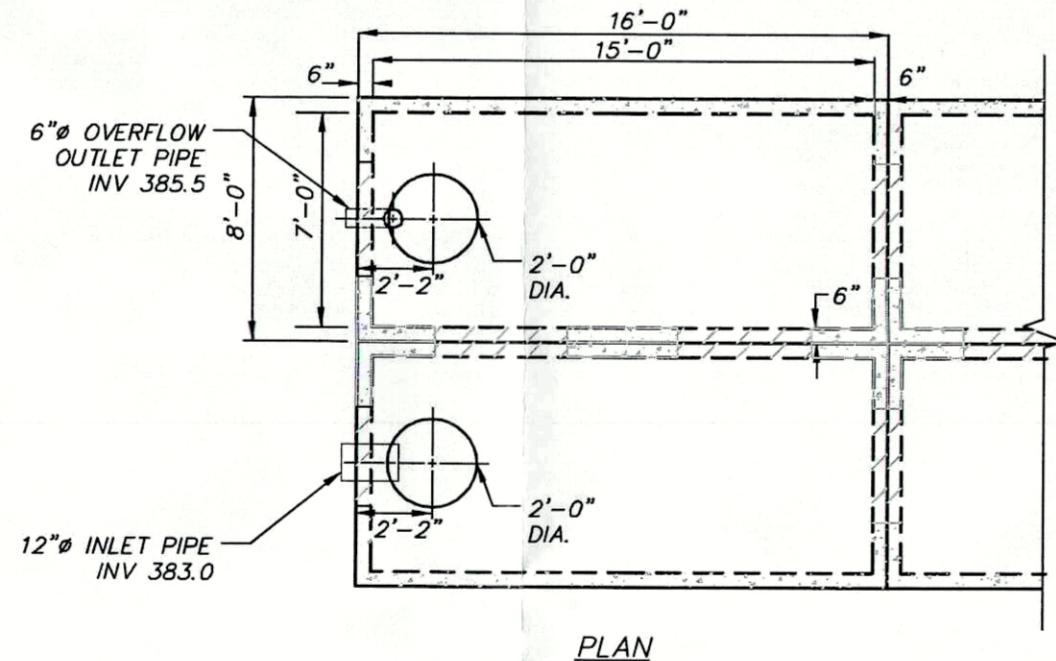
ELEVATION



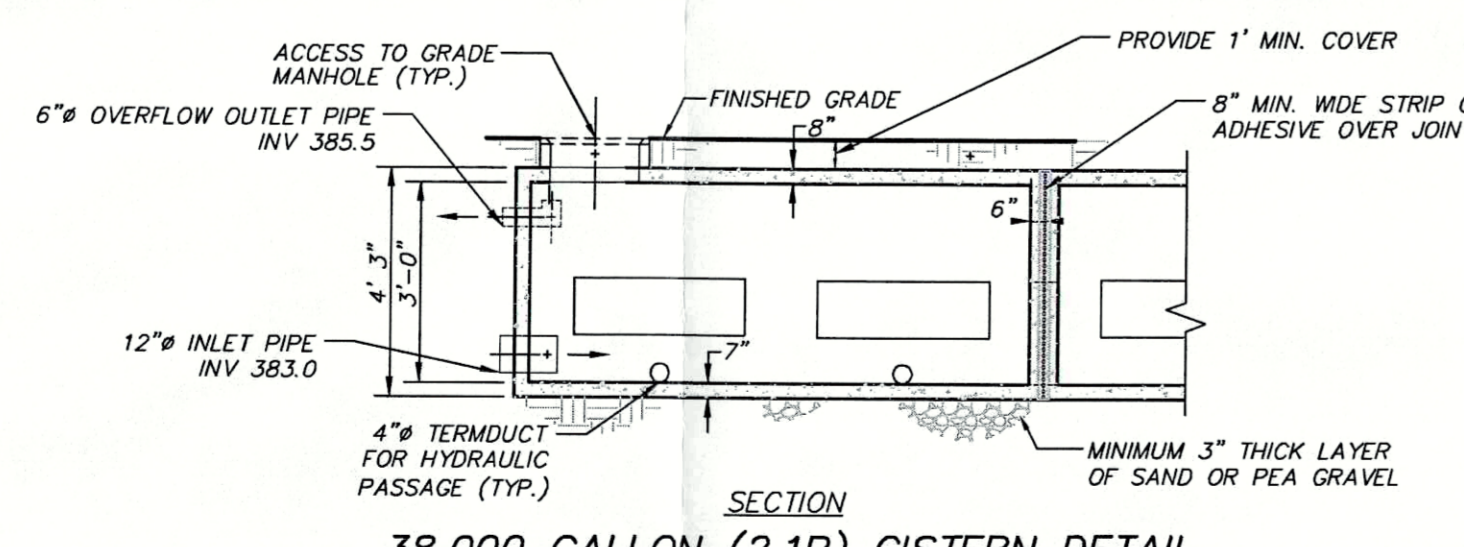
SECTION A-A



OS 3.1P (NYSDEC DESIGN 1-2) OUTLET STRUCTURE DETAIL  
(N.T.S.)



PLAN



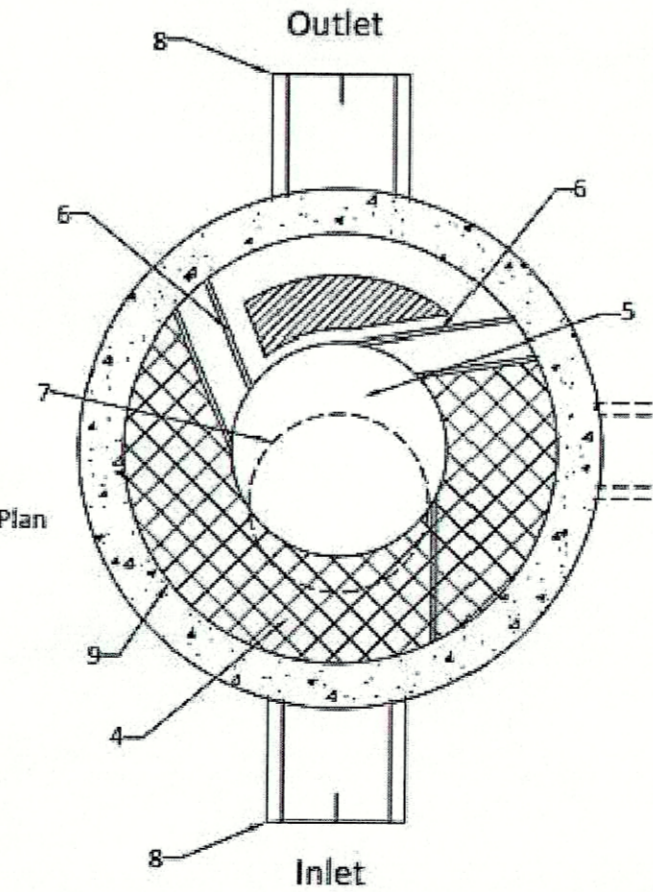
SECTION  
38,000 GALLON (2.1P) CISTERN DETAIL  
(TO BE DESIGNED FOR H-20 LOADING)  
(N.T.S.)

IRRIGATION SYSTEM NOTES:

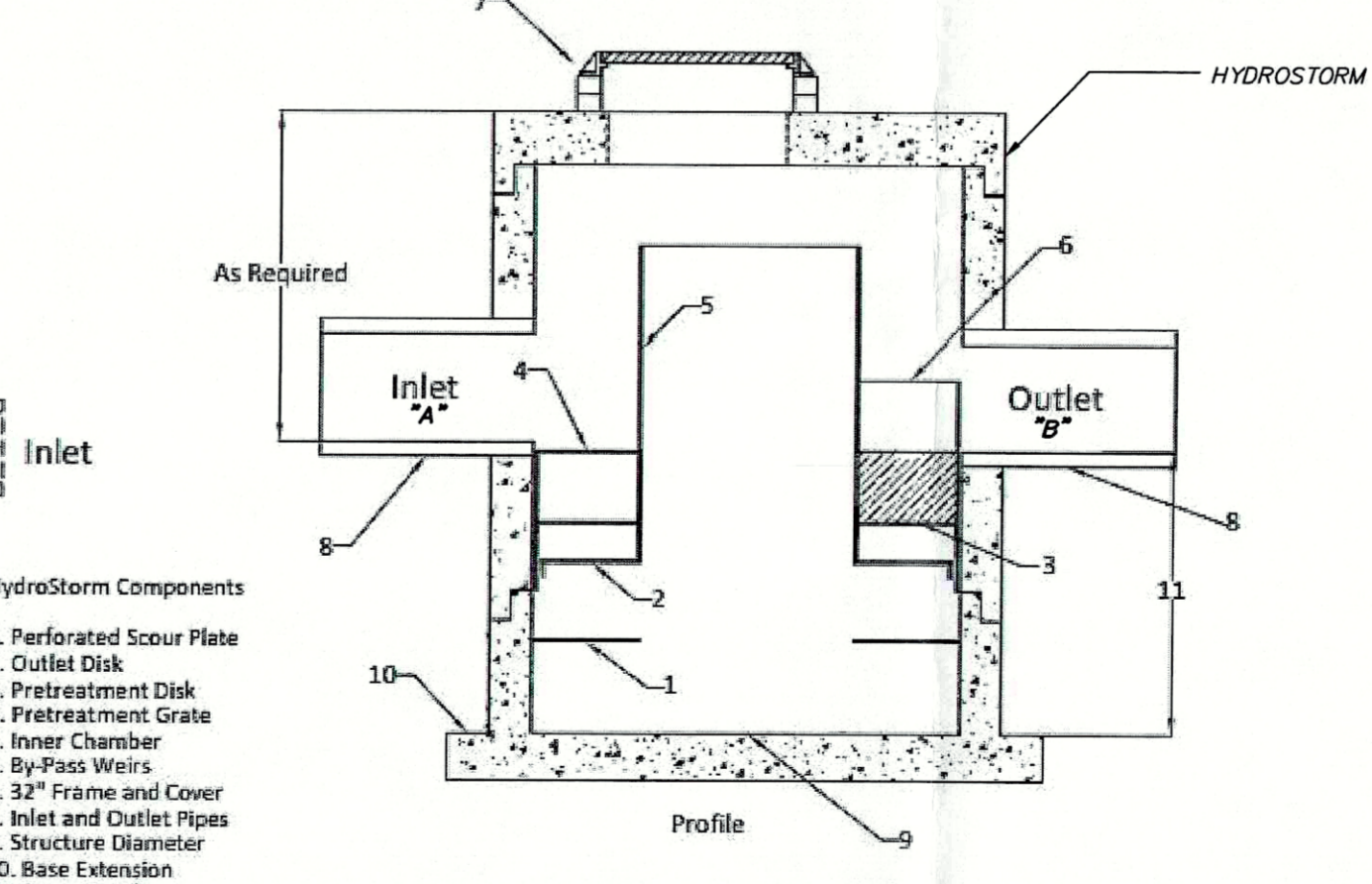
- Stormwater Cistern (SMP 2.1) shall be installed with a pump and distribution piping capable of servicing Low Area as shown in Drawing IFF-1. Final design of the irrigation system by irrigation contractor.
- Irrigation distribution and piping shall be installed prior to the installation of finished asphalt and concrete surfaces.
- Irrigation contractor to provide as-built system to Design Engineer.

CISTERN DEWATERING NOTES:

- The cistern is proposed to provide the primary source of water to irrigate the lawn area on lot 2.
- The cistern will be used as the primary source of irrigation water, when available, for the lawn area. An alternate source of irrigation water will be utilized by the owner when the storage in the cistern has been depleted.
- The owner will monitor the irrigation system during the growing season to ensure volume within the cistern is provided prior to rainfall events. Should impending weather dictate the need for additional storage within the cistern, a longer duration of pumping than what is contemplated in note #2 below shall be used to lower the static water level in the cistern prior to a rainfall event.
- A pump with a minimum output of 20 gallons per minute shall be used to dewater the cistern and supply the irrigation system.
- The anticipated irrigation schedule during the growing season is 2.5 hours a day, every day. As stated above the cistern dewatering pump must be capable of pumping 20 gallons a minute. Therefore it is conservatively estimated that 5,000 gallons will be used during one irrigation cycle. The cistern volume, if completely full, would be depleted in just over 5 irrigation cycles or once every 5 days. Based on the EPA WaterSense New Home Specification tool, the site requires 96,557 gallons/month (24,139 gallons/week, 3,448 gallons/day).
- Per the recommendations for cisterns in the New York State Stormwater Management Design Manual (Design Manual) the cistern will be manually lowered by the owner at the beginning of and during the winter season. The lowering of the water elevation in the cistern provides the needed storage for spring ice melt and will help prevent possible winter ice damage within the cistern.



PLAN



PROFILE

Model	Diameter (ft) (8)	Sump Depth (ft) (11)	Inner Chamber (ft) (5)	Max. Pipe (ft) (8)	Volume (gal)	Oil (gal)	Sediment (ft <sup>3</sup> )
HS 4	4	4	2	24	375	95	30
HS 5	5	4	2.5	30	585	155	45

STRUCTURE DESIGNATION	SMP ID	REQUIRED MODEL	DIAMETER (FT)	INLET INV "A"	OUTLET INV "B"
HDS 19	1.1P	HS 5	60"	327.5	327.4
HDS 3A	2.1P	HG 4	48"	386.1	386.0
HDS 9A	3.1P	HG 5	60"	355.0	354.9

PROPOSED HYDRODYNAMIC SEPARATOR DETAIL  
(N.T.S.)

NO.	DATE	REVISION	BY
4	6-4-19	REVISED PER TOWN COMMENTS	JWM
3	4-10-19	REVISED PER DEP COMMENTS	JWM
2	3-19-19	REVISED PER DEP COMMENTS	JWM
1	1-23-19	REVISED PER DEP COMMENTS	JWM

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www.insite-eng.com

PROJECT: **STAMMER SUBDIVISION**  
BIRDSALL DRIVE AND JEROME ROAD  
TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

DRAWING: **DETAILS**

PROJECT NUMBER: 16140.100 PROJECT MANAGER: R.D.W.  
DATE: 11-16-18 DRAWN BY: J.W.M.  
SCALE: 1" = 40' CHECKED BY: J.L.L.

DRAWING NO. **D-2** SHEET **6** OF **6**

APPROVED IMPROVEMENT PLANS

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.



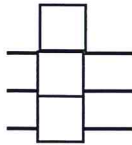




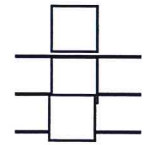
**PROPOSED ACTIVITY - If not located in wetland/wetland buffer (skip to 2b)**

**1. Description of wetlands (check all that apply):**

a. Lake/pond



Control area of lake/pond



b. Stream/River/Brook

Control area of stream/river/brook

c. Wetlands

Control area of wetlands

**2a. Description of activity in the wetland and/or wetland buffer. Describe the proposed work including the following: i.e. maintenance, construction of dwelling, addition, driveway, culverts, including size and location.**

Not applicable

**2b. Stormwater/Excavation - Description of proposed activity:**

This revised application is for Lot 1 of the previously approved Stahmer Subdivision. The lot has been sold to the owner noted above. It is proposed to constructed a single-family residence including a driveway, patio and associated appurtenances. The Addendum to the Stormwater Pollution Prevention Plan has been designed in accordance with Chapter 248 of the Town of Yorktown Code and the New York State SPDES General Permit for Stormwater Discharges from construction activities, GP-0-20-001.

**3. Tree Removal:**

Amount of trees and/or stumps to be removed: 77

Sizes; approximate DBH: Varies (See Plan)

Species of trees to be removed (i.e. Birch, Spruce - if known): Varies (See Plan)

Reason for removal: Ancillary to site work associated with residential construction

Trees marked in field (trees must be marked prior to inspection): Yes:  No:


Tree removal contractor: To be determined

Unknown

Attach survey/sketch indicating property boundaries, existing structures, driveways, roadways and location of existing trees. Trees must be marked in the field before inspection.

**4. PROPERTY OWNER CONSENT: If another entity (e.g. contractor, consultant) is applying on the owner's behalf, the PROPERTY OWNER is to complete, sign and date this authorization:**

I, Andrew Fiore hereby authorize Richard D. Williams, Insite Engineering to apply for this Stormwater/Wetland Permit/Tree Permit on my behalf.

Signature: 

Date: April 28, 2021

No application will be processed without the above-mentioned, required information.



**GENERAL CONDITIONS**

- 1. The permittee is responsible for maintaining an active application. If no activity occurs within a six (6) month period, as measured from the date of application, the application will become null and void. Applications fees are non-refundable.
- 2. The Town of Yorktown reserves the right to modify, suspend or revoke this permit at any time after due notice when:
  - a. Scope of the project is exceeded or a violation of any condition of the permit or provision of the law pertinent regulations are found; or
  - b. Permit was obtained by misrepresentation or failure to disclose relevant facts; or
  - c. Newly discovered information or significant physical changes are discovered.
- 3. The permittee is responsible for keeping the permit active by requesting renewal from the Approval Authority. Any supplemental information that may be required by the Approval Authority, including forms and fees, must be submitted 30 days prior to the expiration date. The expiration date is one year from the date the bond is paid to the Engineering Department. In accordance with Chapter 178 of the Town Code, Freshwater Wetlands, Section 178-16 -Expiration of a Permit.
- 4. This permit shall not be construed as conveying to the applicant any right to trespass upon private lands or interfere with the riparian rights of others in order to perform the permitted work or as authorizing the impairment of any right, title or interest in real or personal property held or vested in person not party to this permit.
- 5. The permittee is responsible for obtaining any other permits, approvals, easements and right-of-way , which may be required.
- 6. An modification of this permit granted by the Approval Authority must be in writing and attached hereto.
- 7. Granting of this permit does not relieve the applicant of the responsibility of obtaining any other permission, consent or approval from the U.S. Army Corps of Engineers, N.Y.C. Department of Environmental Protection, N.Y.S. Department of Environmental Conservation or local government, which may be required.

Andrew Fiore

\_\_\_\_\_  
PRINT NAME

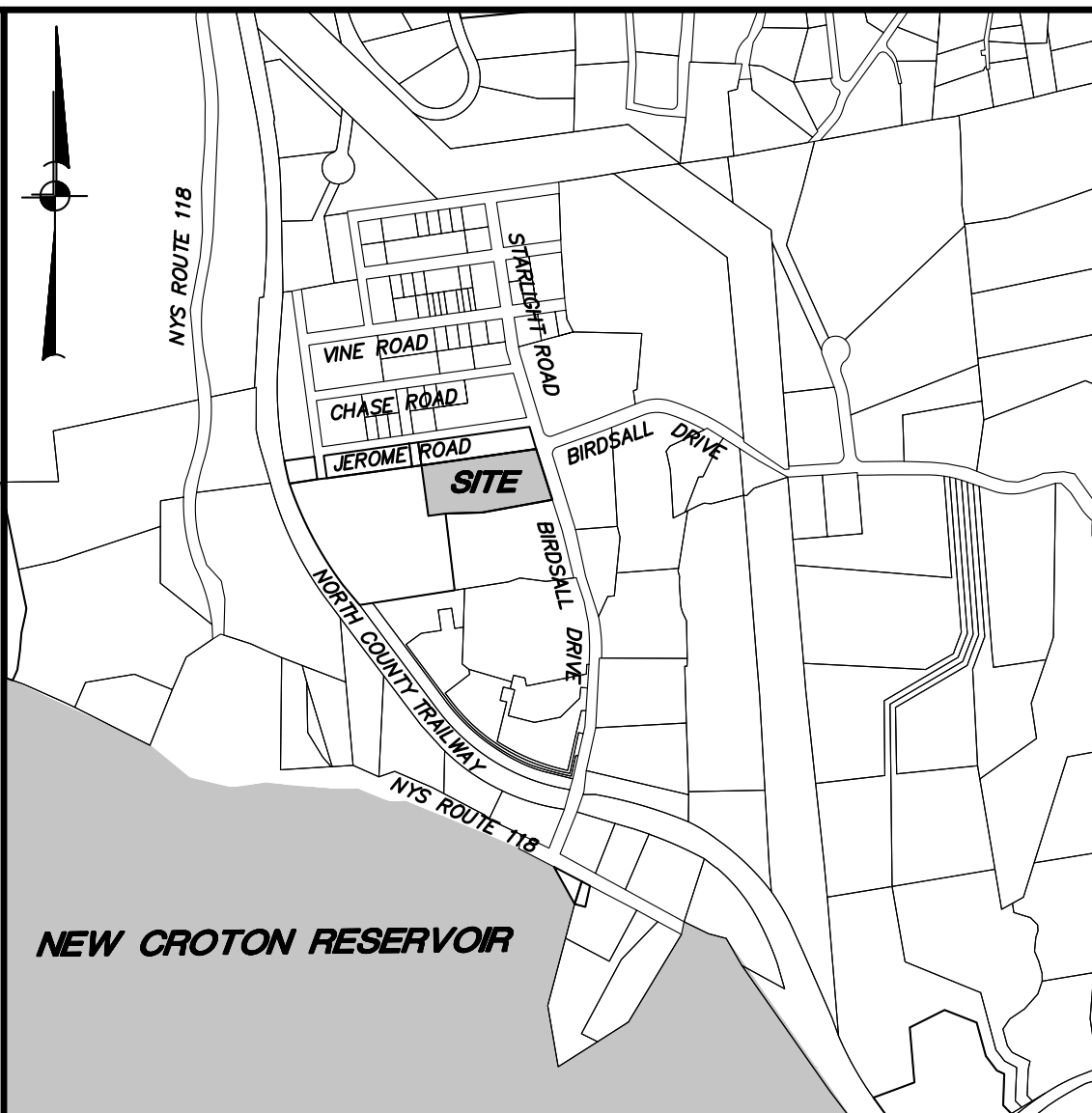


\_\_\_\_\_  
SIGNATURE F APPLICANT

April 28, 2021

\_\_\_\_\_  
DATE





**Location Map**  
**Owner/Applicant:**  
 Andrew Fiore  
 37 South 8th Street, Unit #306  
 Brooklyn, NY 11249

**Project Location:**  
 800 Birdsell Drive  
 Yorktown Heights, NY 10598

**Site Data:**  
 Zone: R-80 Residential  
 Total Acreage: 2.7 AC.  
 Tax Map No.: 59.10-7-10  
 Watershed Basin: New Croton Reservoir  
 RS Name: Stahmer Minor Subdivision  
 RS Lot No.: 10  
 Filed Map No.: 29353  
 Date Filed: 12/18/19

- General Notes:**
- Property line and existing features shown hereon obtained from final plot subdivision of property prepared by Baxter Land Surveying dated 7-13-15.
  - Topography shown hereon is based upon aerial photography provided by Baxter Land Surveying. The contour interval is 2'.
  - No soil stockpiles, materials or equipment will be stored in areas to be used for the subsurface sewage treatment system.
  - The electric and communication utilities shall be installed in accordance with the utility provider specifications including but not limited to providing the proper bedding, cover, and detectable warning tape / tracer wire.
  - The rim elevation of the existing catch basin at the corner of Birdsell Drive and Starlight Road was determined by interpolating existing topographic information. The invert was determined by field measurements between the rim and invert and relating the invert to the interpolated rim elevation.

**LEGEND**

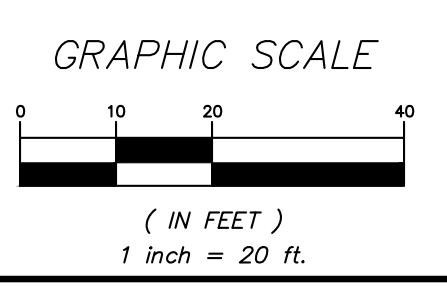
- PROPERTY LINE
- - - EXISTING PROPERTY LINE TO BE EXTINGUISHED
- - - EXISTING UTILITY POLE W/ OVERHEAD WIRES
- EXISTING STONE WALL
- - - EXISTING TREE LINE
- EXISTING WELL
- EMP EXISTING ELECTRIC METER POST
- ⊕ Pole EXISTING UTILITY POLE
- 8"TR 10"SP EXISTING TREE TO REMAIN
- ✕ 8"TR ✕ 10"SP EXISTING TREE TO BE REMOVED

**TREE LEGEND**

- Deciduous Tree
- \* Evergreen
- TRI. Triple
- TW. Twin
- QUAD. Quadruple
- BB Black Birch
- BE Birch
- CH Cherry
- HK Hickory
- OA Oak
- PN Pine
- SP Spruce
- TR Tree

**SOILS LEGEND**

SOILS	DESCRIPTION	HYDROLOGICAL GROUP
CuD	Chattfield-Halls-Rock outcrop complex, hilly	C
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	C
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	C



NO.	DATE	REVISION	BY

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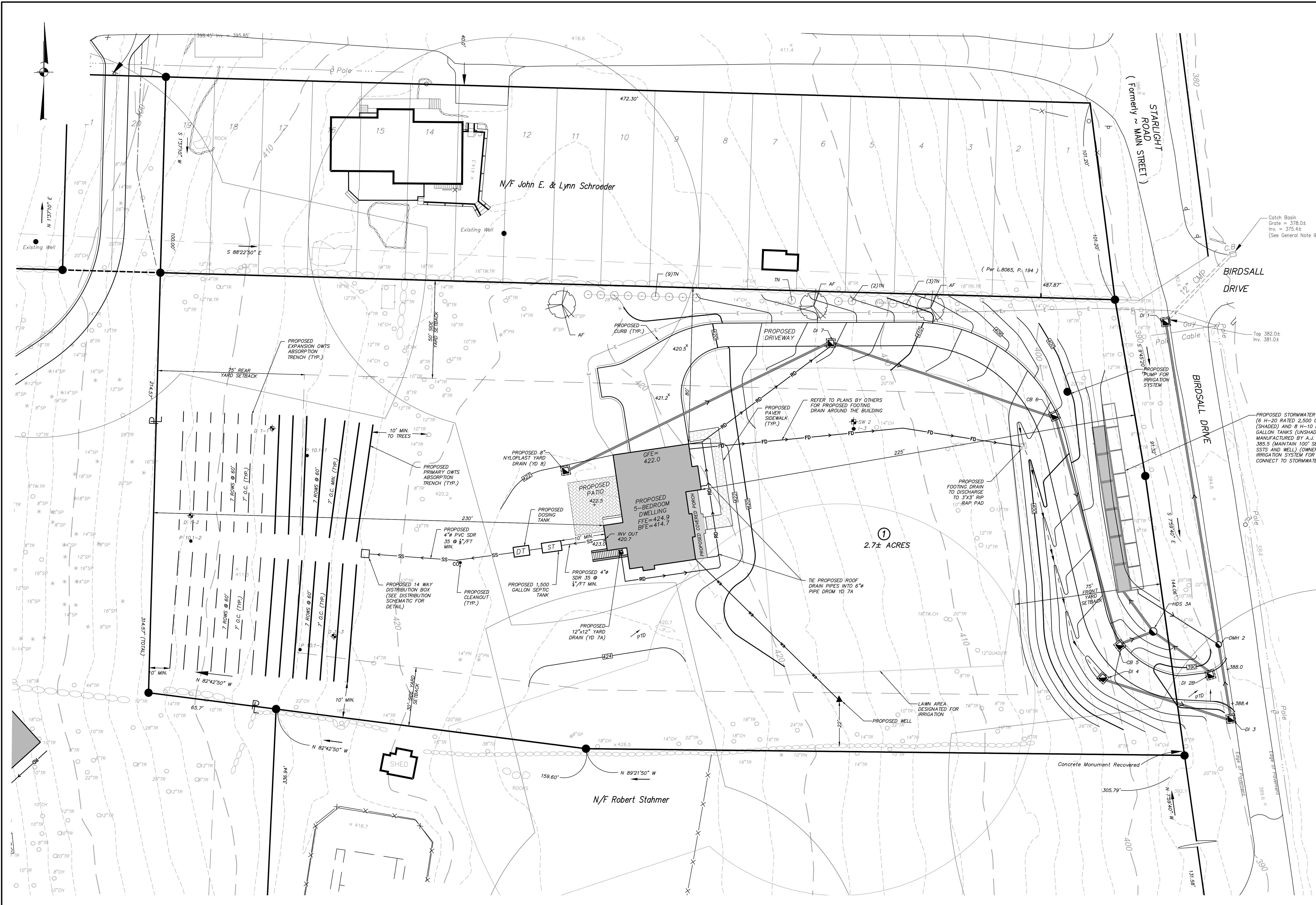
**PROJECT:**  
 FIORE RESIDENCE  
 800 BIRDELL DRIVE, TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

**DRAWING:**  
 EXISTING CONDITIONS &  
 REMOVALS PLAN

PROJECT NUMBER	DATE	SCALE	PROJECT MANAGER	DRAWN BY	CHECKED BY	R.D.W.	J.W.M.	R.D.W.	DRAWING NO.	SHEET
20213.100	4-28-21	1" = 20'	R.D.W.	J.W.M.	R.D.W.				EX-1	1 / 4

ALTERATION OF THIS DOCUMENT, IN ANY WAY, CONSTITUTES A VIOLATION OF THE STATE OF NEW YORK EDUCATION LAW § 7209 (2).





**LEGEND**

- PROPOSED PROPERTY LINE
- PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED BELGIUM BLOCK CURB
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- RD PROPOSED 4" PVC SDR 35 ROOF LEADER DRAIN
- FD PROPOSED 4" PVC SDR 35 FOOTING DRAIN
- +0.11.7 PROPOSED SPOT GRADE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED DRAIN INLET/CATCH BASIN
- PROPOSED YARD DRAIN
- ▶ PROPOSED END SECTION
- DEEP TEST HOLE LOCATION
- INFILTRATION TEST LOCATION
- PROPOSED DRAINAGE PIPE
- PROPOSED ELECTRICAL LINE
- PROPOSED RIP RAP PAD
- PROPOSED RETAINING WALL
- PROPOSED GRASS SWALE
- PROPOSED DRAINAGE SWALE
- EXPANSION ABSORPTION TRENCH
- DB DISTRIBUTION BOX (DB)
- ST SEPTIC TANK
- FOOTING DRAIN
- ROOF DRAIN
- WATER SERVICE CONNECTION
- ▲ PROPOSED WELL

**R1-80 Zone Requirements:**

Requirement	Required	Provided
Lot Area: (sf)	80,000	117,530
Lot Width At Main Bldg	200'	234'±
Lot Depth: (ft)	200'	510'±
Front Yard: (ft)	75'	225'±
Side Yard: (ft)	100' <sup>(1)</sup>	
Main or Accessory Bldg, Minimum Either Side	30'	80'
Two Combined	80'	140'±
Accessory Bldg. If in Rear Yard, Minimum Either Side	10'	N/A
Rear Yard: (ft)		
Main Bldg.	75'	230'±
Accessory Bldg. or Structure	10'	N/A
Maximum Height: (ft)		
Main Bldg.	35'	<35'
Accessory Bldg.	15'	N/A
Minimum Usable Floor Area of Dwelling Unit: (sf)	1,200	4,300 (AS SHOWN)
Maximum Bldg. Coverage (All Buildings)	10%	26%± (AS SHOWN)
Required Off-Street Parking Spaces Per Dwelling Unit	1	2
Road Frontage: (ft)	200'	235'±

(1) ON STREETS WITH LESS THAN 50-FOOT RIGHT-OF-WAY, THE FRONT YARD SETBACK SHALL BE MEASURED FROM THE CENTER LINE OF THE EXISTING ROADWAY AND 25 FEET SHALL BE ADDED TO THE REQUIRED FRONT YARD SETBACK.

**STORMWATER MANAGEMENT PRACTICE TEST RESULTS**  
 DEEP TEST PERFORMED ON AUGUST 28, 29 AND 30, 2017 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.  
 NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED.

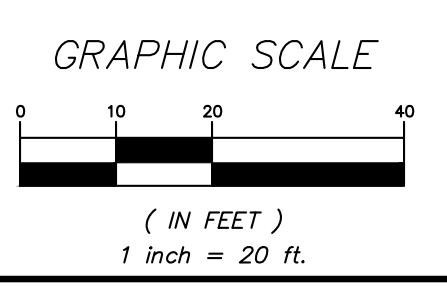
**SW-1:** 0"-6" TOPSOIL, COMPACT BROWN FINE SAND, GROUNDWATER SEEP @ 132" GROUNDWATER OR LEDGE ENCOUNTERED @ 144"  
**SW-2:** 0"-6" TOPSOIL, LIGHT BROWN FINE SANDY LOAM, SPOT MOTTLING OBSERVED @ 32" NO GROUNDWATER OR LEDGE ENCOUNTERED

**DRAINAGE TABLE**

STRUCTURE	INV.	INVERT	PIPE SIZE	LENGTH	SLOPE
			(Inches)	(Linear Feet (L.F.))	(Percent %)
YD 8	422.0	419.5	6" HDPE	150 L.F.	5.9
DI 7	414.7	402.8	12" HDPE	123 L.F.	8.3
CB 6	401.8	398.7	12" HDPE	120 L.F.	9.6
CB 5	392.0	388.5	12" HDPE	19 L.F.	12.6
HDS 3A	395.0	386.1	12" HDPE	25 L.F.	12.4
SMP 2.1P		383.0			
YD 7A	413.0	410.5	6" HDPE	210 L.F.	1.0
DI 7	395.0	408.3			
DI 4	391.0	387.5	12" HDPE	67 L.F.	3.0
DI 3	389.0	385.5	15" HDPE	38 L.F.	1.8
DMH 2	388.0	384.5	15" HDPE	167 L.F.	2.4
DI 1	382.0	380.5			
SMP 2.1P		385.5			
DMH 2	395.0	385.0	6" HDPE	51 L.F.	1.0
DI 2B	387.9	386.4	6" HDPE	36 L.F.	0.8
HDS 3A	395.0	386.1			

**PLANT LIST**

QUANTITY	KEY	BOTANICAL/COMMON NAME	SIZE	ROOT/SPACING
3	AF	Acer X Freemanii / Autumn Blaze Maple	2" CAL.	B&B/10' O.C. MIN.
15	TN	Thuja 'North Pole' / Emerald Green Arborvitae	4'-5' HT.	B&B/6' O.C. MIN.



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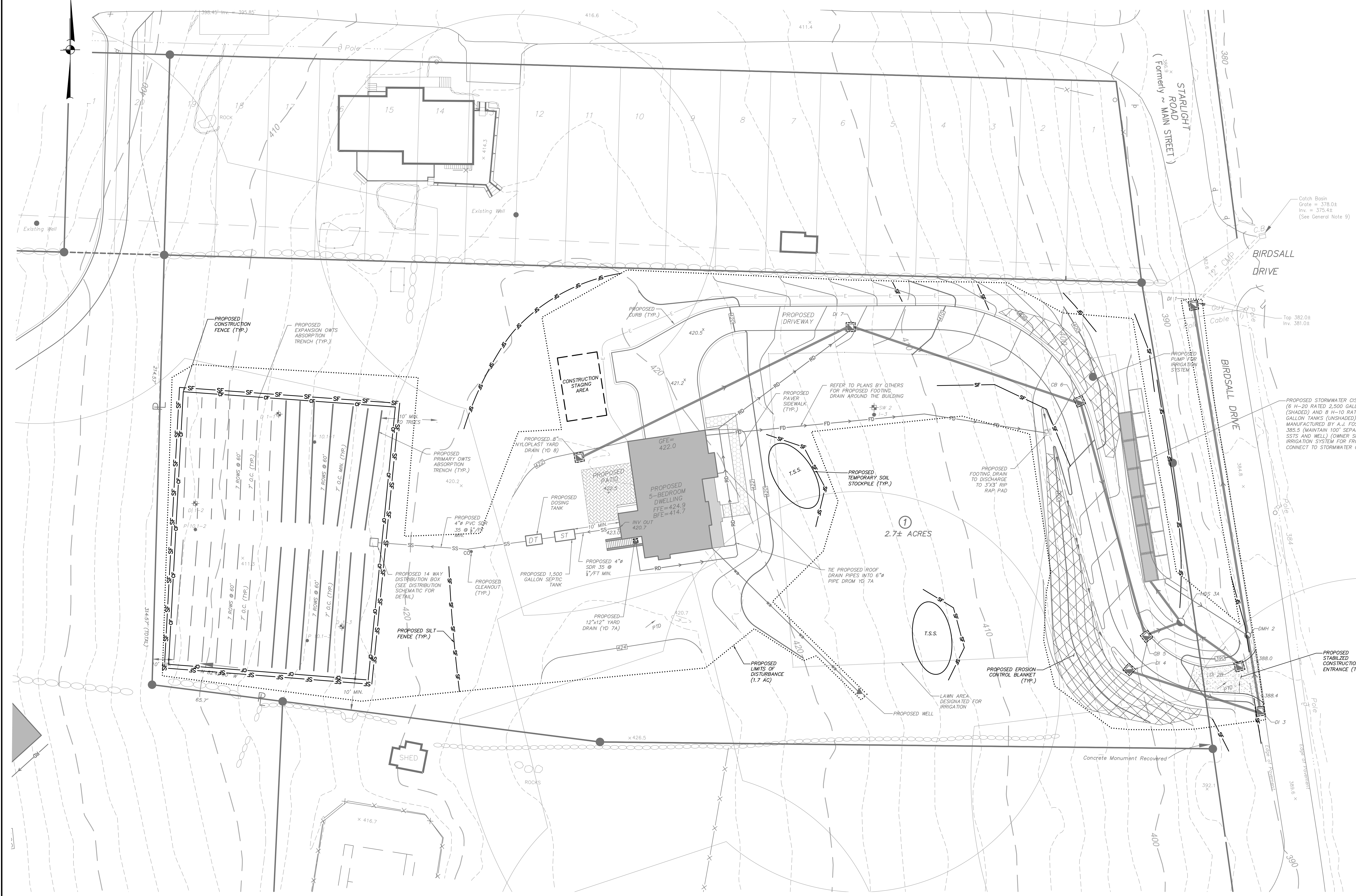
PROJECT: **FIORE RESIDENCE**  
 800 BIRDSALL DRIVE, TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

DRAWING: **SITE DEVELOPMENT PLAN**

PROJECT NUMBER	DATE	PROJECT MANAGER	DRAWN BY	CHECKED BY	DRAWING NO.	SHEET
20213.100	4-28-21	R.D.W.	J.W.M.	R.D.W.	SP-1	2

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LEGEND	
	PROPOSED PROPERTY LINE
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	EXISTING STONE WALL
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	SEPTIC TANK
	FOOTING DRAIN
	ROOF DRAIN
	WATER SERVICE CONNECTION
	PROPOSED WELL

SOIL RESTORATION REQUIREMENTS	
TYPE OF DISTURBANCE	SOIL RESTORATION REQUIREMENTS
Areas where topsoil is striped only - no change in grade	Aerate <sup>1</sup> and apply 6 inches of topsoil
Areas of cut or fill	Apply full Soil Restoration <sup>1</sup>
Heavy traffic areas on site (especially in a zone 5-25 feet around buildings but not within a 5-foot perimeter around foundation walls)	Apply full Soil Restoration (decompaction and compost enhancement)
Areas where Runoff Reduction and/or infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.

1. Aeration includes the use of machines such as roller-tines or tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which functions like a mini-subsoiler.
2. Per "Deep Ripping and De-compaction, DEC 2008". Compost shall be aged, from plant derived materials, free of viable weed seeds, have no visible free water or dust produced when handling, pass through a half inch screen and have a pH suitable to grow desired plants.

**REQUIRED POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICE COMPONENTS:**

1. Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-15-002), all construction projects needing post-construction stormwater management practices shall prepare a SWPPP that also includes practices designed in conformance with the most current version of the technical standard, New York State Stormwater Management Design Manual ("Design Manual"). Where post-construction stormwater management practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of SWPPP components is provided in accordance with Part II.B.2-a) and II.B.3.
  - a. Identification of all post-construction stormwater management practices to be constructed as part of the project. This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
  - b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice. This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
  - c. A Stormwater Modeling and Analysis Report including pre-development conditions, post-development conditions, the results of the stormwater modeling, a summary table demonstrating that each practice has been designed in conformance with the aizing criteria, identification of and justification for any deviations from the Design Manual, and identification of any design criteria that are not required. The required analysis is provided in the project Stormwater Pollution Prevention Plan.
  - d. Soil testing results and locations. This SWPPP requirement is shown hereon.
  - e. Infiltration testing results. This SWPPP requirement is shown hereon.
  - f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice. The project Stormwater Pollution Prevention Plan serves to satisfy this requirement.
2. Enhanced Phosphorus Removal Standards - Beginning on September 30, 2008, all construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the most current version of the technical standard, New York Stormwater Management Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 1.a - 1.f above. The permanent stormwater practices for this project have been sized according to chapter 10 of the Design Manual Enhanced Phosphorus Removal Standards. Please see 1.a - 1.f above.

**CONSTRUCTION SEQUENCE:**

1. Stake out limit of disturbance, establish staging area and mark trees to be removed.
2. Septic Area shall be cordoned off with construction fence prior to start of site work.
3. Install silt fence in general locations indicated on the plan.
4. Install stabilized construction entrance/anti-tracking pad at driveway entrance.
5. Begin clearing and grubbing operations associated with house, driveway and SSTS.
6. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
7. Begin grading and construction of individual driveway.
  - 7.1. During this step, drainage improvements along Birdsall drive shall be constructed (Specifically installation and associated piping for DI 1, DMH 2 and DI 3).
  - 7.2. Install remaining utilities and drainage structures (Specifically DI 2B, HOS 3A, DI 4, CB 5, CB 6, DI 7) and associated piping. Install Clatern SMP 2.1P and connect Roof Leader Drains to the structures as shown on the plan. The pipe discharging to the Hydrodynamic Separator (from CB 5 and DI 2B) to be plugged until final stabilization is achieved.
  - 7.3. Complete Grading for driveway and stabilize associated grading in shoulder areas. Area downhill of footing drains shall be stabilized prior to footing drain installation.
  - 7.4. Slopes steeper than 2:1 shall be stabilized immediately after grading with Erosion Control Blanket.
  - 7.5. The Irrigation System shall be installed at the same time as the Clatern.
  - 7.6. Begin house construction, individual lot grading and installation of SSTS and well. Install Footing Drains and Rip Rap Pads.
  - 7.7. Upon completion of grading operations, install finished driveway surfaces.
  - 7.8. Prior to application of topsoil, all areas in the limit of disturbance must undergo soil restoration.
  - 7.9. Topsoil, seed, and mulch all disturbed areas as soon as practical in accordance with the Erosion and Sediment Control Notes contained on this page.
  - 7.10. Upon achieving final stabilization (as determined by the project qualified professional performing the erosion and sediment control inspections) remove the plugs discharging to the stormwater practices and pretreatment devices.

**EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE**

PRACTICE	MONITORING REQUIREMENTS			MAINTENANCE REQUIREMENTS	
	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	-	Inspect	Inspect	Clean/Replace	Remove
STABILIZED CONSTRUCTION ENTRANCE	Inspect	-	Inspect	Clean/Replace Stone and Fabric	Remove
DUST CONTROL	Inspect	-	Inspect	Mulching/Spraying Water	N/A
VEGETATIVE ESTABLISHMENT	-	Inspect	Inspect	Water/Reseed/Retain	Reseed to 80% Coverage
SOIL STOCKPILES	-	Inspect	Inspect	Mulching/Silt Fence Repair	Remove

\* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized.



**INSITE**  
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PROJECT: **FIORE RESIDENCE**

DRAWING: **EROSION & SEDIMENT CONTROL PLAN**

PROJECT NUMBER	20213.100	PROJECT MANAGER	R.D.W.	DRAWING NO.	SHEET
DATE	4-28-21	DRAWN BY	J.W.M.		3
SCALE	1" = 20'	CHECKED BY	R.D.W.		4



**EROSION & SEDIMENT CONTROL NOTES:**

- The owner's field representative (O.F.R.) will be responsible for the implementation and maintenance of erosion and sediment control measures on this site prior to and during construction.
- All construction activities involving the removal or disposal of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment disposal within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
- Wherever feasible, natural vegetation shall be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time.
- When land is exposed during development, the exposure shall be kept to the shortest practical period of time. In the areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. Disturbance shall be minimized to the areas required to perform construction.
- Silt fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
- All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded for temporary stabilization. Ryegrass (annual or perennial) at a rate of 30 lbs. per acre shall be used for temporary seeding in spring, summer or early fall. "Aristoak" winter rye (cereal rye) shall be used for temporary seeding in late fall and winter.
- Any disturbed areas not subject to further disturbance or construction traffic, permanent or temporary, shall have soil stabilization measures initiated for permanent vegetation cover in combination with a suitable mulch within 1 business day of final grading. All seeded areas to receive a minimum 4" topsoil (from stockpile area) and be seeded and mulched as follows:
  - Seed mixture to be planted between March 21 and May 20, or between August 15 and October 15 or as directed by project representative at a rate of 100 pounds per acre in the following proportions:
    - Kentucky Bluegrass 20%
    - Creeping Red Fescue 40%
    - Perennial Ryegrass 20%
    - Annual Ryegrass 20%
  - Mulch: Salt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and ordered according to "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
- Grass seed mix may be applied by either mechanical or hydroseeding methods. Seeding shall be performed in accordance with the current edition of the "NYSDEC Standard Specification, Section 209-1.08B" hydroseeding shall be performed using materials and methods as approved by the site engineer.
- Cut or fill slopes steeper than 3:1 shall be stabilized immediately after grading with Curlex 1 Single Net Erosion Control Blanket, or approved equal.
- Paved roadways shall be kept clean at all times.
- The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
- All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
- Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
- Erosion and sediment control measures shall be inspected and maintained on a daily basis by the O.F.R. to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all silt dikes and silt fences are intact. Any failure of erosion and sediment control measures shall be immediately repaired by the contractor and inspected for approval by the O.F.R. and/or site engineer.
- Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the O.F.R.
- Cut and fills shall not be completed adjoining property, nor divert water onto the property of others.
- All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
- The O.F.R. shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rain events.
- As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer and/or the Town Engineer shall be installed by the contractor.
- Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.

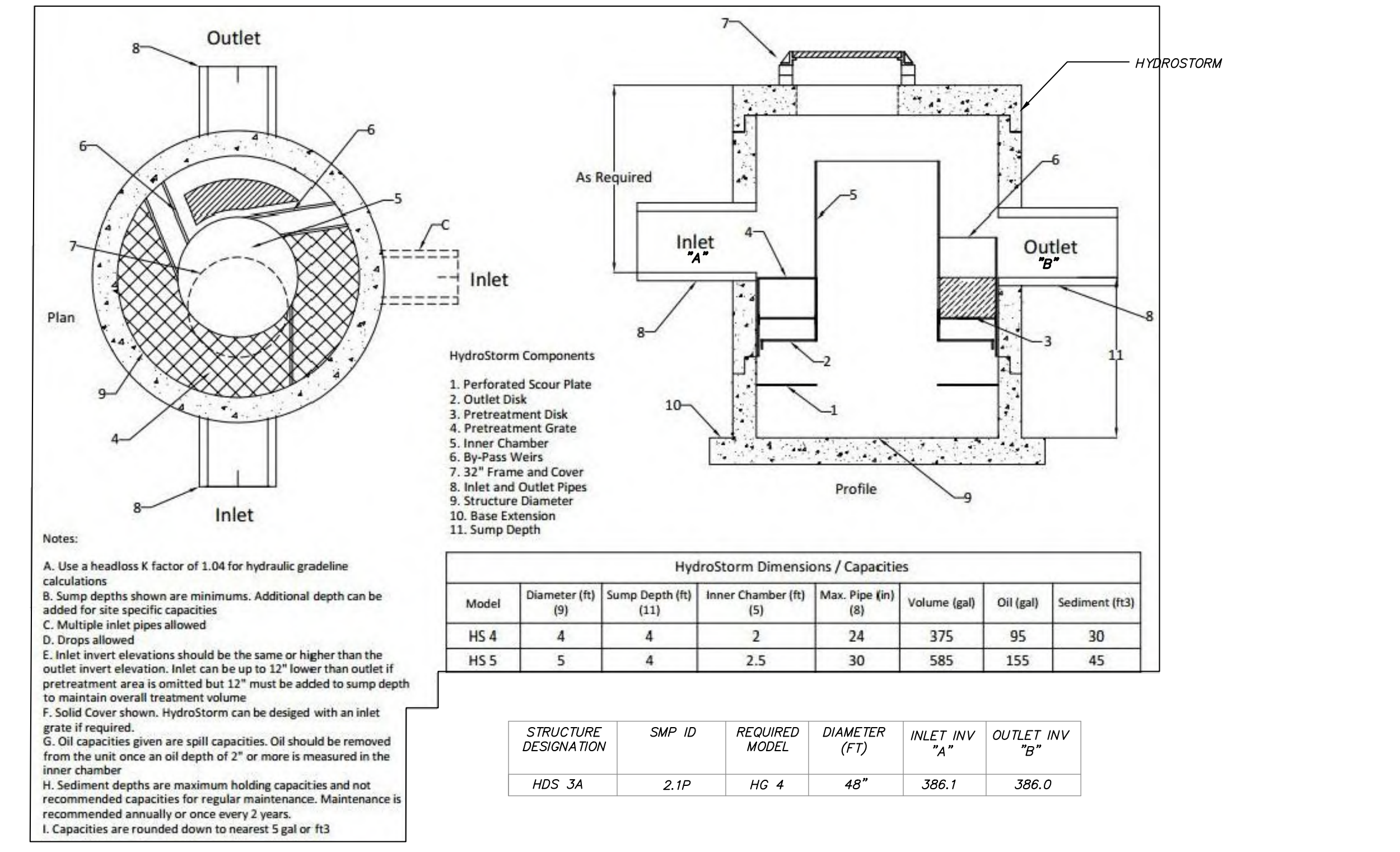
**REQUIRED EROSION CONTROL SWPPP CONTENTS:**

- Pursuant to the NYSDEC "SPDES" General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all Stormwater Pollution Prevention Plans (SWPPP) shall include erosion and sediment control practices designed in conformance with the most current version of the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." Where erosion and sediment control practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of required SWPPP contents is provided in accordance with Part III.B.11-a-1 of General Permit GP-0-20-001:
- Background information: The subject project consists of a single family residential dwelling.
  - Site map / construction drawing: These plans serve to satisfy this SWPPP requirement.
  - Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Paxton Fine Sandy Loam (PnB & PnC), and Chatterfield-Hollis, Rock Outcrop (C2) as identified on the Soil Conservation Service Web Soil Survey. These soil types belong to the Hydrologic Soil Group "C".
  - Description of erosion and sediment control practices: This plan, and details / notes shown hereon serve to satisfy this SWPPP requirement.
  - Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and Details provided hereon identify temporary and permanent stabilization measures to be employed with respect to specific elements of the project, and at the various stages of development.
  - Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.
  - The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices: The details and Erosion and Sediment Control Notes serve to satisfy this SWPPP requirement.
  - An inspection schedule: inspections are to be performed twice weekly and by a qualified professional as required by the General Permit GP-0-20-001. In addition the NYSDEC Trained Contractor shall perform additional inspections as cited in the Sedimentation and Erosion Control Notes.
  - A description of pollution prevention measures that will be used to control litter, construction chemicals and construction debris: In general, all construction litter, debris shall be collected and removed from the site. The general contractor shall supply either waste barrels or dumpster for proper waste disposal. Any construction chemicals utilized during construction shall either be removed from site daily by the contractor or stored in a structurally sound and weatherproof building. No hazardous waste shall be disposed of on site, and shall ultimately be disposed of in accordance with all federal, state and local regulations. Material Safety Data Sheets (MSDS), material inventory, and emergency contact numbers shall be maintained by the general contractor for all construction chemicals utilized onsite. Finally, temporary sanitary facilities (portable toilets) shall be provided on-site during the entire length of construction, and inspected weekly for evidence of leaking holding tanks.
  - A description and location of any stormwater discharges associated with industrial activity other than construction at the site: There are no known industrial stormwater discharges present or proposed at the site.
  - Identification of any elements of the design that are not in conformance with the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." All proposed elements of this SWPPP have been designed in accordance with the "New York Standards and Specifications for Erosion and Sediment Control."

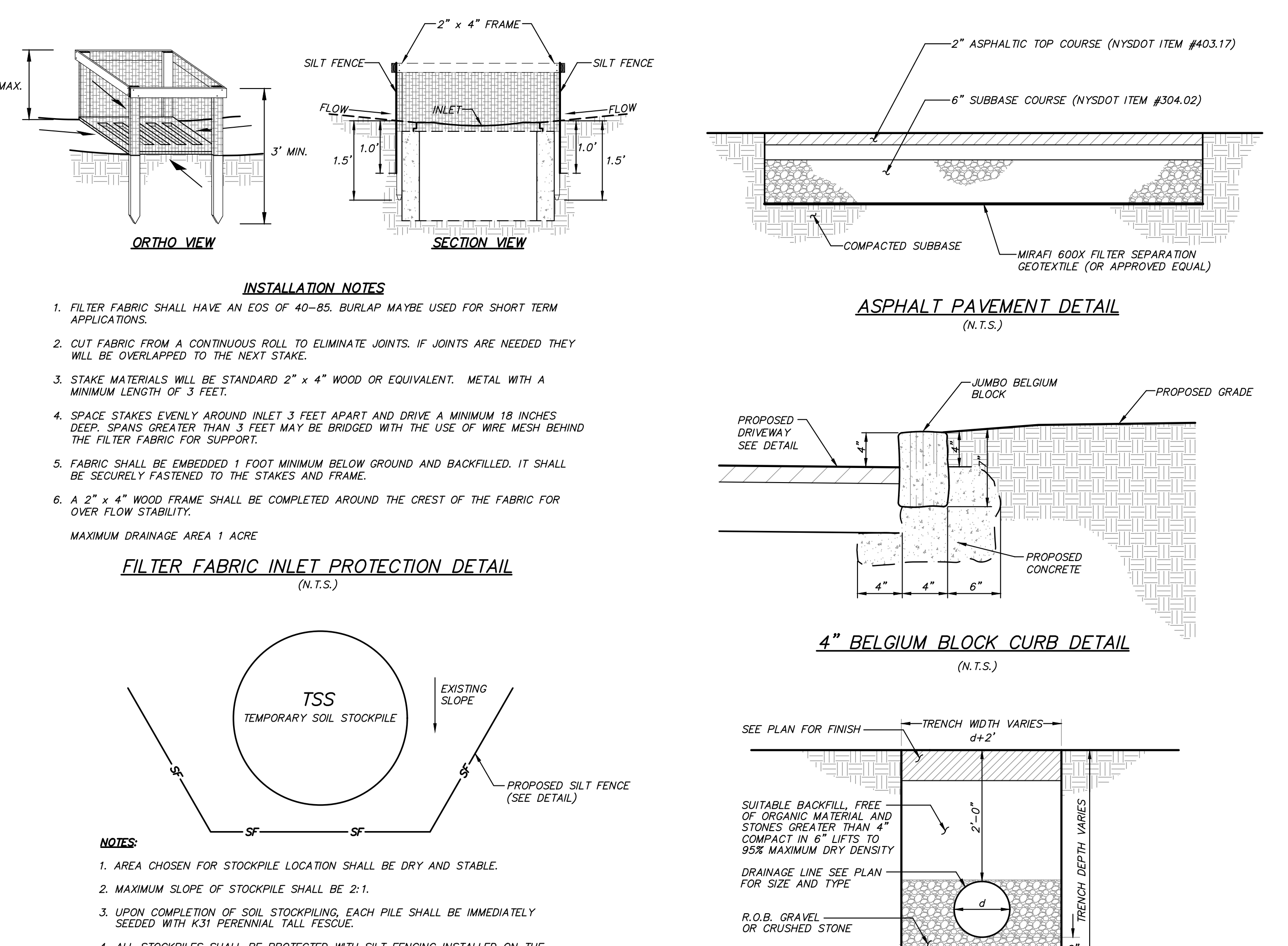
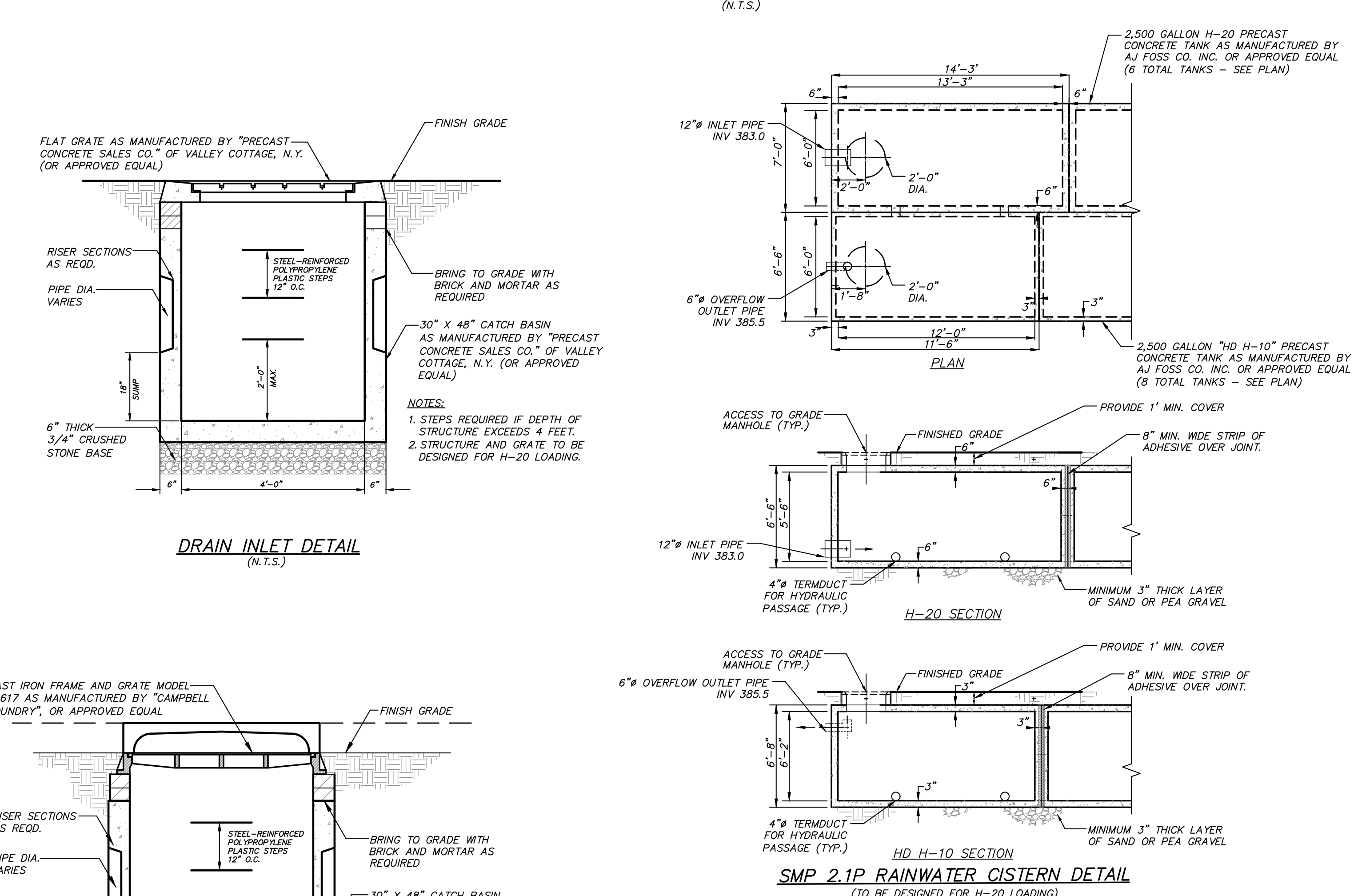
Note: The party responsible for implementation of the maintenance schedule during and after construction, as well as implementation of the long term maintenance plan is:  
 Andrew Fiore  
 37 South 8th Street, Unit #306  
 Brooklyn, NY 11249  
 and/or the current owner(s) of the subject property.

**SMP LONG TERM INSPECTION/MAINTENANCE REQUIREMENTS**

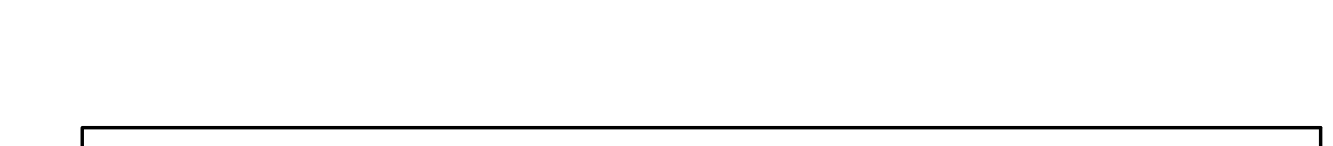
PRACTICE ID	MONTHLY INSPECTION/MAINTENANCE REQUIREMENTS	ANNUAL INSPECTION/MAINTENANCE REQUIREMENTS	INSPECTION/MAINTENANCE AFTER MAJOR STORM EVENTS
Stormwater Cistern (2.1P)	Not Applicable	Inspect and clear debris/sediment from units and verify operation. Flush or vacuum units to remove sediment as needed. Inspect orifices, inlets & outlets for clogging, & stabilize and/or repair immediately. The cistern will be manually lowered at the end of fall/beginning of the winter season.	Inspect orifices, inlets & outlets for clogging, & stabilize and/or repair immediately. Inspect sediment depths and general condition of units.
Hydro-dynamic Separator	Not Applicable	Remove cover and inspect chamber and discharge pipes. Flush or vacuum accumulated sediment as needed. Refer to Attachment D of the project SWPPP for additional information.	Remove cover and inspect chamber and discharge pipes. Flush or vacuum accumulated sediment as needed. Refer to Attachment D of the project SWPPP for additional information.
Catch Basin / Drain Manhole	Not Applicable	Clean sumps/remove debris. Inspect well wall for deformation and/or repair immediately.	Clean sumps/remove debris. Inspect well wall for deformation and/or repair immediately.
Drain Inlets / Yard Drains	Clean sumps/remove debris	Clean sumps/remove debris	Clean sumps/remove debris
Grass Swales	Inspect first few months after construction for eroding soils & slumpage & repair immediately.	Inspect & clean mow & remove debris & litter. Revegetate as needed. Inspect for & remove accumulated sediment every 5 to 10 years.	Not Applicable
Drainage Pipes	Not Applicable	Clean sumps/remove debris	Clean sumps/remove debris



**PROPOSED HYDRODYNAMIC SEPARATOR DETAIL**



**TEMPORARY SOIL STOCKPILE DETAIL**

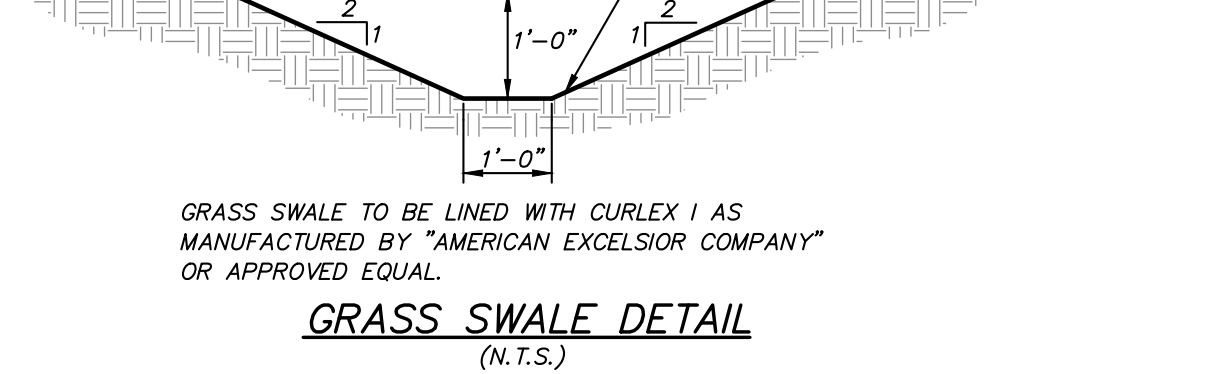
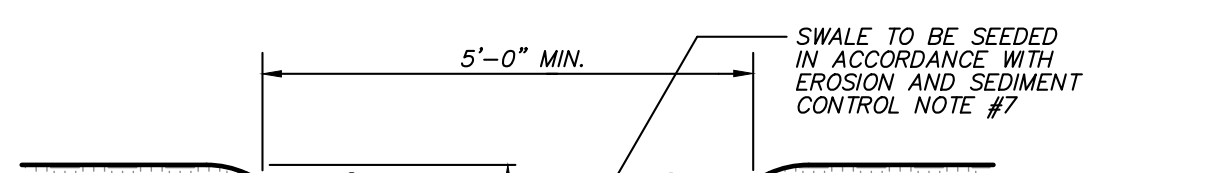
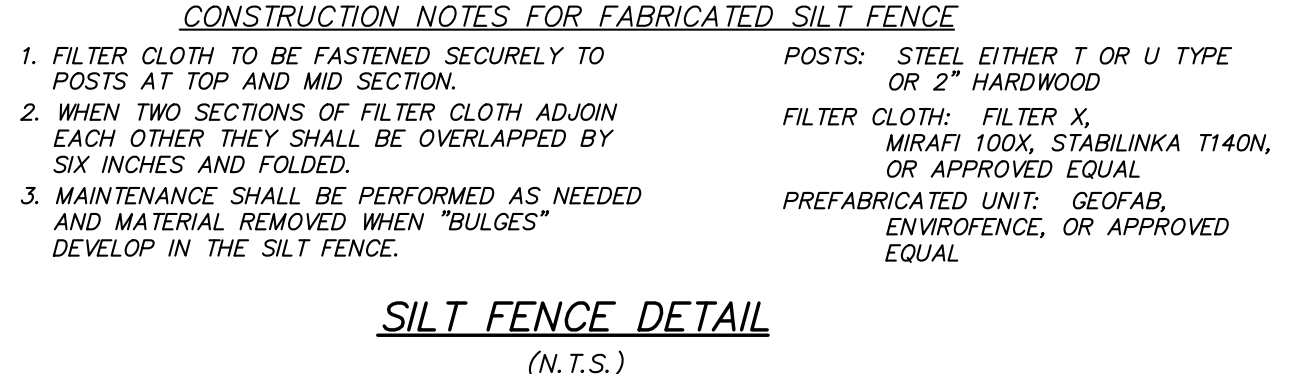
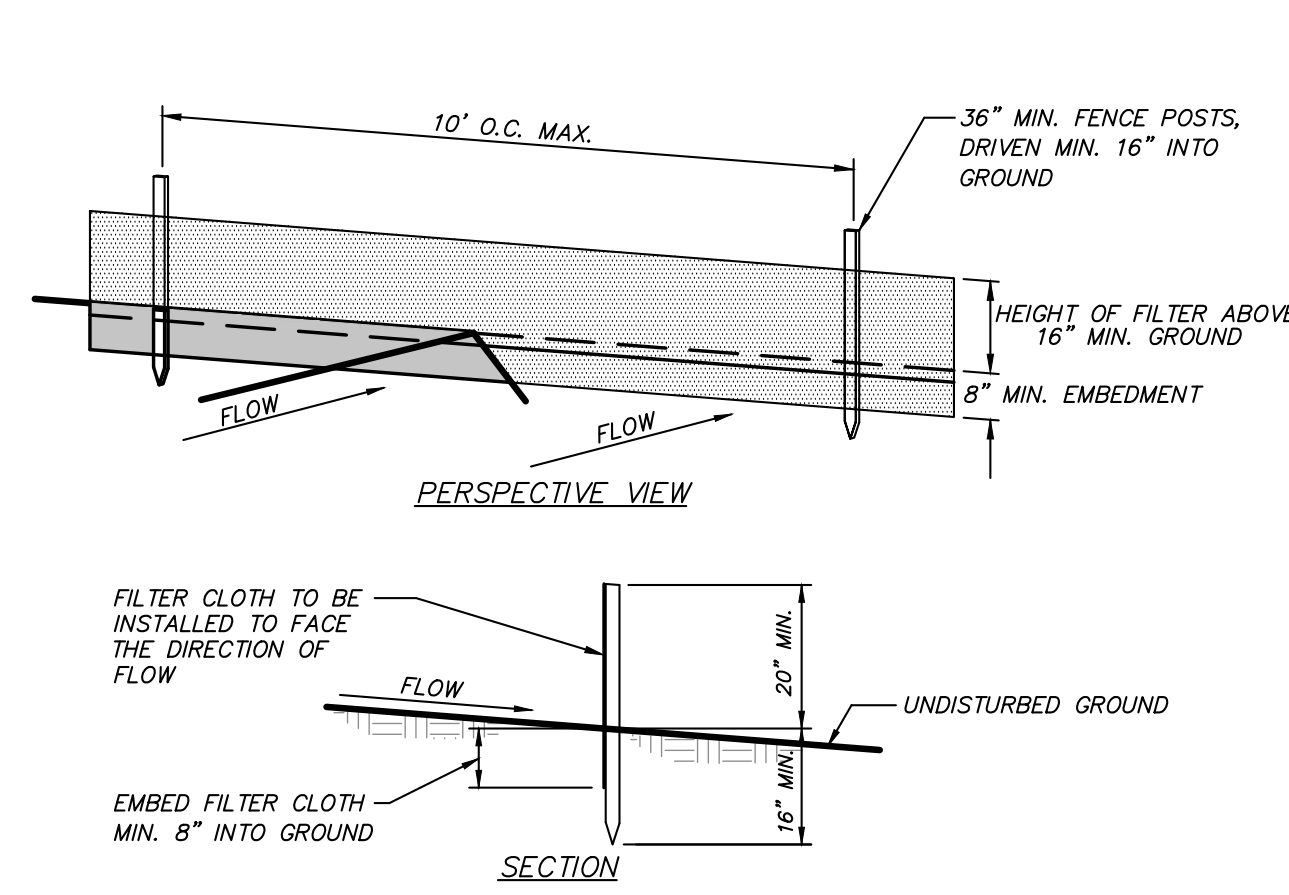


**EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE**

PRACTICE	MONITORING REQUIREMENTS			MAINTENANCE REQUIREMENTS	
	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	-	Inspect	Inspect	Clean/Replace	Remove
STABILIZED CONSTRUCTION ENTRANCE	Inspect	-	Inspect	Clean/Replace Stone and Fabric	Remove
DUST CONTROL	Inspect	-	Inspect	Mulching/Spraying Water	N/A
*VEGETATIVE ESTABLISHMENT	-	Inspect	Inspect	Water/Reseed/Remove	Reseed to 80% Coverage
SILT PROTECTION	-	Inspect	Inspect	Clean/Repair/Replace	Remove
SOIL STOCKPILES	-	Inspect	Inspect	Mulching/Silt Fence Repair	Remove
SWALES	-	Inspect	Inspect	Clean/Mulch/Repair	Mow Permanent Grass/Replace/Repair Rip Rap
CONCRETE DRAINAGE STRUCTURES	-	Inspect	Inspect	Clean Sumps/Remove Debris/Repair/Replace	Clean Sumps/Remove Debris/Repair/Replace
PAVEMENT	-	Inspect	Inspect	Clean	Clean
*SEDIMENT TRAP	-	Inspect	Inspect	Clean/Mulch/Repair/Reseed	N/A
STONE CHECK DAM	-	Inspect	Inspect	Remove Silt/Debris and Repair Rip Rap	Remove
CONCRETE TRUCK WASHOUT AREA	-	Inspect	Inspect	Remove Concrete From Site when Full and Re-embed	Remove
LEVEL SPREADER/ROCK OUTLET PROTECTION	-	Inspect	Inspect	Remove Silt/Debris and Repair Rip Rap	Remove Debris and Repair Rip Rap

\* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized. Note: The party responsible for implementation of the maintenance schedule during and after construction, as well as implementation of the long term maintenance plan is:  
 Andrew Fiore  
 37 South 8th Street, Unit #306  
 Brooklyn, NY 11249  
 and/or the current owner(s) of the subject property.

**STABILIZED CONSTRUCTION ENTRANCE DETAIL**



**IRRIGATION SYSTEM NOTES:**

- Stormwater Cistern (SMP 2.1) shall be installed with a pump and distribution piping capable of servicing Lawn Area as shown on Drawing IRR-1. Final design of the irrigation system by irrigation contractor.
- Irrigation distribution and piping shall be installed prior to the installation of finished asphalt and concrete surfaces.
- Irrigation contractor to provide as-built of system to Design Engineer.

**CISTERN DEWATERING NOTES:**

- The cistern is proposed to provide the primary source of water to irrigate the lawn area on lot 1.
- The cistern will be used as the primary source of irrigation water, when available, for the lawn area. An alternate source of irrigation water will be utilized by the owner when the storage in the cistern has been depleted.
- The Owner will monitor the irrigation system during the growing season to ensure volume within the cistern is provided prior to rainfall events. Should impending weather dictate the need for additional storage within the cistern, a longer duration of pumping than what is contemplated in note #5 below shall be used to lower the static water level in the cistern prior to a rainfall event.
- A pump with a minimum output of 20 gallons per minute shall be used to dewater the cistern and supply the irrigation system.
- The anticipated irrigation schedule during the growing season is 2.5 hours a day, every day. As stated above the cistern dewatering pump must be capable of pumping 20 gallons a minute. Therefore, it is conservatively estimated that 3,000 gallons will be used during one irrigation cycle. The cistern volume, if completely full, would be depleted in just over 3 irrigation cycles or once every 3 days. Based on the EPA WaterSense Home Specification tool, the site requires 96,557 gallons/month (24,139 gallons/week, 3,448 gallons/day).
- Per the recommendations for cisterns in the New York State Stormwater Management Design Manual (Design Manual) the cistern will be manually lowered by the owner at the beginning of and during the winter season. The lowering of the water elevation in the cistern provides the needed storage for spring ice melt and will help prevent possible winter ice damage within the cistern.

NO.	DATE	REVISION	BY

**INSITE**  
 ENGINEERING, SURVEYING &  
 LANDSCAPE ARCHITECTURE, P.C.

3 Garrett Place  
 Carmel, NY 10512  
 (845) 225-9690  
 (845) 225-9717 fax  
 www.insite-eng.com

**PROJECT:**  
 FIORE RESIDENCE  
 600 BRIDGEMAN DRIVE TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

**DRAWING:**  
 NOTES & DETAILS

PROJECT NUMBER	20213.100	PROJECT MANAGER	R.D.W.	DRAWING NO.	SHEET
DATE	4-28-21	DRAWN BY	J.W.M.	D-1	4
SCALE	AS SHOWN	CHECKED BY			



**Wells Fargo**  
**Lighting Shrub Oak**



Christopher Taormina, RA  
Chairman

Matthew Slater  
Town Supervisor

# TOWN OF YORKTOWN

## ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (ABACA)

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565

RECEIVED  
PLANNING DEPARTMENT

JUN 11 2021

TOWN OF YORKTOWN

**To:** Planning Department  
**From:** ABACA  
**Date:** June 10, 2021  
**Subject:** Wells Fargo Bank, Shrub Oak – Review of Alternate Lighting Fixture  
SBL: 16.09-2-14; 1342 East Main Street, Shrub Oak

*Documents Reviewed:*

Title:	Date:	Produced By:
Wells Fargo, Shrub Oak – Review of alternate lighting fixture	6-2-2021	Wells Fargo, GMR

The Advisory Board on Architecture and Community Appearance reviewed the above referenced subject via video conference at the Board meeting held on Tuesday, June 8, 2021. Alex Andrup, Associate Project Manager of GMR was present.

The ABACA has the following comments:

1. As discussed at the previous meeting of 5/18/2021, the applicant submitted an alternate lighting fixture to work better with the building architecture and still provide the required illumination. Based on the proposed fixture submitted and attached, the ABACA has no objection to the proposed lighting fixture for this location.

*Christopher Taormina*

Christopher Taormina, RA  
Chairman

/nc

Attachment

cc: Applicant



# TOWN OF YORKTOWN

## ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (ABACA)

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565

ABACA Memo – Wells Fargo, Shrub Oak

June 10, 2021

Page 2

### Wells Fargo, Shrub Oak – Proposed Lighting Fixture

#### TYPE UU1

##### DESCRIPTION

The EPIC Collection delivers custom luminaire flexibility with high quality, yet availability expectations of standard specification grade product. The EPIC Collection can be dressed to suit any application. Recognizing evolving environmental and legislative trends, the EPIC Collection delivers world class LED optical and performance solutions to the decorative luminaire marketplace.

**GC TO VERIFY THAT FIXTURES CAN BE MOUNTED PER PLAN AND ALL NECESSARY HARDWARE IS SPECIFIED FOR INSTALLATION PRIOR TO PURCHASING**

##### SPECIFICATION FEATURES

###### Construction

**TOP:** Cast aluminum top housing attaches to cast aluminum mounting arm hub with four stainless steel fasteners. One-piece silicone gasket between mounting hub and top casting seals out moisture and contaminants. (See the mounting accessories section for a full selection of mounting arms. (Only these arms are compatible with the Epic luminaire). **MIDSECTION:** Continuous silicone gaskets seal lens to top casting and shade. The mid section features cast aluminum construction and stainless steel assembly. **SHADES:** Heavy gauge precision spun aluminum shades offer superior surface finish and consistency in form. **DOORFRAME:** Die-cast aluminum 1/8" thick door and doorframe seal to underside of shade with a thick wall continuous silicone gasket. Mounting hub ships attached to mounting arm.

###### Optics

Choice of twelve patented, high-efficiency AccuLED Optic™ technology manufactured from

injection-molded acrylic. Optics are precisely designed to shape the optics, maximizing efficiency and application spacing. AccuLED Optic technology, creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and nominal 70 CRI. Optional 3000K CCT and 5000K CC. For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed. The house-side shield is designed to seamlessly integrate with the SL2, SL3 or SL4 optics.

###### Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard

with 10kV/10kA common – and differential – mode surge protection. LightBARs feature and IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Occupancy sensor and dimming options available.

###### Finish

Housing is finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. LightBAR™ cover plates are standard white and may be specified to match finish of luminaire housing. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection.

###### Warranty

Five-year warranty.

#### ECM-E04-LED-E1-T4-SO-BL-BK-A

#### Invue

Catalog #		Type	
Project		Date	
Comments			
Prepared by			



#### ECM/EMM EPIC MEDIUM LED

1 - 4 LightBARs  
Solid State LED

DECORATIVE AREA LUMINAIRE



**CERTIFICATION DATA**  
UL/cUL Listed  
DesignLights Consortium® Qualified\*  
IP66 LightBARs  
LM79 / LM80 Compliant  
2G Vibration Tested  
ISO 9001

**ENERGY DATA**  
Electronic LED Driver  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V 50/60Hz, 347V/60Hz,  
480V/60Hz  
-40°C Minimum Temperature  
40°C Ambient Temperature Rating

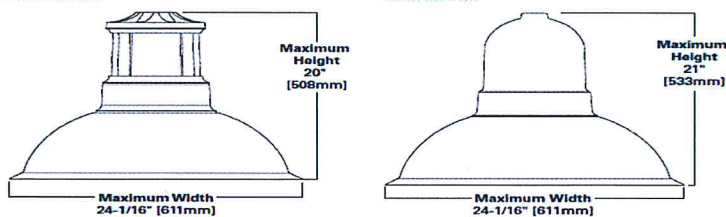
**EPA**  
Effective Projected Area: (Sq. Ft.) 0.94

**SHIPPING DATA**  
Approximate Net Weight:  
45 lbs. [20 kgs.]

##### DIMENSIONS

ECM Classical

EMM Modern



See configurations for more detailed information.



\*www.designlights.org

TD500028EN  
July 31, 2020 1:14 PM







**Reasons Supporting This Determination:**

(See 617.7(a)-(c) for requirements of this determination ; see 617.7(d) for Conditioned Negative Declaration)

**If Conditioned Negative Declaration**, provide on attachment the specific mitigation measures imposed, and identify comment period (not less than 30 days from date of publication in the ENB)

**For Further Information:**

Contact Person:

Address:

Telephone Number:

**For Type 1 Actions and Conditioned Negative Declarations, a Copy of this Notice is sent to:**

Chief Executive Officer , Town / City / Village of

Other involved agencies (If any)

Applicant (If any)

Environmental Notice Bulletin, 625 Broadway, Albany, NY 12233-1750 (Type One Actions only)



**PLANNING BOARD  
TOWN OF YORKTOWN**

**RESOLUTION APPROVING  
AMENDED LIGHTING PLAN FOR  
WELLS FARGO BANK  
LOCATED WITHIN THE SHRUB OAK SHOPPING CENTER**

**RESOLUTION NUMBER: #21-00**

**DATE:**

On motion of \_\_\_\_\_, seconded by \_\_\_\_\_, and unanimously voted in favor by Fon, LaScala, Bock, Garrigan, Visconti, the following resolution was adopted:

WHEREAS pursuant to Chapter 200-7, of the Town Code lighting plan approval is to follow the procedure of a site plan approval process; and

WHEREAS in accordance with the Town's Land Development Regulations, Town of Yorktown Town Code Chapter 195, adopted February 4, 1969 and as amended, a formal application for the approval of an amended lighting plan, prepared by Independence Engineering, LLC, dated February 13, 2020 and last revised December 8, 2020, was submitted to the Planning Board on behalf of Wells Fargo (hereinafter referred to as "the Applicant"); and

WHEREAS the property is located at 1342 East Main Street, Shrub Oak, also known as Section 16.09, Block 2, Lot 14 on the Town of Yorktown Tax Map (hereinafter referred to as "the Property"), and the applicant has represented to this board that they are the lawful owners of the land represented on said lighting plan; and

WHEREAS pursuant to SEQRA:

1. The action has been identified as an Unlisted action.
2. The Planning Board has been declared lead agency on \_\_\_\_\_.
3. A negative declaration has been adopted on \_\_\_\_\_, on the basis of a Short EAF dated \_\_\_\_\_.

WHEREAS the Applicant has submitted as part of his application the following maps and documents:

**Additional Documents & Reports**

1.  A cover sheet, titled "Wells Fargo 2019 Lighting Design," prepared by GMR Facility Analysis & Engineering, dated \_\_\_\_\_; and
2.  A drawing, sheet LU-1, titled "General Notes," prepared by GMR Facility Analysis & Engineering, dated \_\_\_\_\_; and
3.  A drawing, sheet LU-2, titled "Luminaire Schedule," prepared by GMR Facility Analysis & Engineering, dated \_\_\_\_\_; and



4.  A drawing, sheet LU-3, titled "Overall Site Plan," prepared by GMR Facility Analysis & Engineering, dated \_\_\_\_\_; and
5.  A drawing, sheet LU-4, titled "Full Site Photometrics," prepared by GMR Facility Analysis & Engineering, dated \_\_\_\_\_; and
6.  A drawing, sheet LU-5, titled "Fixture Removal & Dimensioning Plan," prepared by GMR Facility Analysis & Engineering, dated \_\_\_\_\_; and
7.  A drawing, sheet LU-6, titled "ATM Compliance Area Photometrics Plan," prepared by GMR Facility Analysis & Engineering, dated \_\_\_\_\_; and

WHEREAS the Planning Board has referred this application to the following boards and agencies and has received and considered reports of the following:

<b>Boards &amp; Agencies</b>	<b>Report Date</b>
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ABACA	
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WHEREAS the requirements of this Board's Land Development Regulations, Town Code Chapter 195, have been met; and

WHEREAS a Public Informational Hearing and Public Hearing were waived by the Planning Board; and

BE IT NOW RESOLVED that the application of Beatrice and Charles DeMilo for the approval of an amended lighting plan, prepared by Titan LED Lighting Solutions, dated and last revised September, 2019, be approved subject to the modifications and conditions listed below, and that the Chairman of this Board be and hereby is authorized to endorse this Board's approval of said plan upon compliance by the applicant with such modifications and requirements as noted below:

**Modify plans to show:**

1.  \_\_\_\_\_

**Additional requirements prior to signature by the Planning Board Chairman:**

1. Submission of 5 full size plans to the Planning Department to the satisfaction of the Planning Director.

**Additional requirements:**

8.  Proposed plan must comply with all current applicable ADA standards.
9.  Applicant must obtain all necessary permits from outside agencies.



BE IT FURTHER RESOLVED that unless a building permit has been issued by \_\_\_\_\_, or a time extension has been granted by the Planning Board, this approval will be null and void.







**Product Specifications**


**CONSTRUCTION & MATERIALS**

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks
- DA and DL mount utilizes convenient interlocking mounting method. Mounting is rugged die cast aluminum, mounts to 3-6" (76-152mm) square or round pole and secures to pole with 5/16-18 UNC bolts spaced on 2" (51mm) centers
- AA and SA mounts are rugged die cast aluminum and mount to 2" (51mm) IP, 2.375" (60mm) O.D. tenons
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight Charts on pages 1 and 22

**ELECTRICAL SYSTEM**

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- DA and DL mounts designed with integral weathertight electrical box with terminal strips (12Ga-20Ga) for easy power hookup
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Consult factory if in-luminaire fusing is required
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA; 20 LED (525 & 700mA) and 40-80 LED: 0.15mA; 100-160 LED: 0.30mA

**REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA, DA and DL mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Refer to <https://www.designlights.org/search/> for most current information
- Meets Buy American requirements within ARRA
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

Electrical Data*							
LED Count (x10)	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
<b>350mA</b>							
02	25	0.21	0.13	0.11	0.10	0.08	0.07
04	46	0.36	0.23	0.21	0.20	0.15	0.12
06	66	0.52	0.31	0.28	0.26	0.20	0.15
08	90	0.75	0.44	0.38	0.34	0.26	0.20
10	110	0.92	0.53	0.47	0.41	0.32	0.24
12	130	1.10	0.63	0.55	0.48	0.38	0.28
14	158	1.32	0.77	0.68	0.62	0.47	0.35
16	179	1.49	0.87	0.77	0.68	0.53	0.39
<b>525mA</b>							
02	37	0.30	0.19	0.17	0.16	0.12	0.10
04	70	0.58	0.34	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
08	133	1.13	0.66	0.58	0.51	0.39	0.28
10	171	1.43	0.83	0.74	0.66	0.50	0.38
12	202	1.69	0.98	0.86	0.77	0.59	0.44
14	232	1.94	1.12	0.98	0.87	0.68	0.50
16	263	2.21	1.27	1.11	0.97	0.77	0.56
<b>700mA</b>							
02	50	0.41	0.25	0.22	0.20	0.15	0.12
04	93	0.78	0.46	0.40	0.36	0.27	0.20
06	134	1.14	0.65	0.57	0.50	0.39	0.29

\* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

THE EDGE® Series Ambient Adjusted Lumen Maintenance <sup>1</sup>					
Ambient	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Estimated <sup>3</sup> LMF	100K hr Estimated <sup>3</sup> LMF
5°C (41°F)	1.04	1.01	0.99	0.98	0.96
10°C (50°F)	1.03	1.00	0.98	0.97	0.95
15°C (59°F)	1.02	0.99	0.97	0.96	0.94
20°C (68°F)	1.01	0.98	0.96	0.95	0.93
25°C (77°F)	1.00	0.97	0.95	0.94	0.92

<sup>1</sup> Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions

<sup>2</sup> In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED

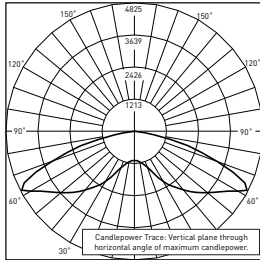
<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED



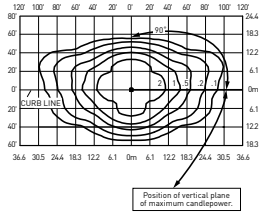
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**2M**



**RESTL Test Report #:** PL10270-004B  
**ARE-EDG-2M-\*\*-06-E-UL-525-40K**  
**Initial Delivered Lumens:** 10,053

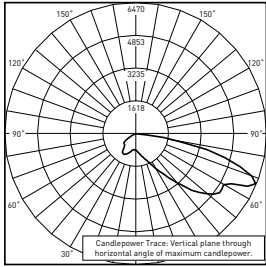




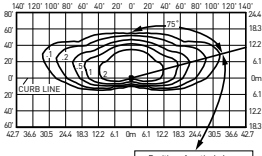
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**2MB**



**RESTL Test Report #:** PL10023-003B  
**ARE-EDG-2MB-\*\*-06-E-UL-525-40K**  
**Initial Delivered Lumens:** 7,784



**ARE-EDG-2MB-\*\*-10-E-UL-525-40K**  
**Mounting Height:** 25' (7.6m) A.F.G.  
**Initial Delivered Lumens:** 13,185  
 Initial FC at grade

Type II Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	1,884	B0 U0 G1	1,921	B0 U0 G1
04	3,768	B1 U0 G1	3,843	B1 U0 G1
06	5,588	B1 U0 G1	5,698	B1 U0 G1
08	7,450	B1 U0 G2	7,598	B1 U0 G2
10	9,291	B1 U0 G2	9,475	B1 U0 G2
12	11,149	B1 U0 G2	11,370	B1 U0 G2
14	12,924	B1 U0 G2	13,181	B1 U0 G2
16	14,771	B1 U0 G2	15,063	B1 U0 G2
<b>525mA</b>				
02	2,674	B0 U0 G1	2,730	B0 U0 G1
04	5,348	B1 U0 G1	5,460	B1 U0 G1
06	7,930	B1 U0 G2	8,096	B1 U0 G2
08	10,573	B1 U0 G2	10,794	B1 U0 G2
10	13,185	B1 U0 G2	13,461	B1 U0 G2
12	15,821	B2 U0 G2	16,153	B2 U0 G3
14	18,341	B2 U0 G3	18,726	B2 U0 G3
16	20,962	B2 U0 G3	21,401	B2 U0 G3
<b>700mA</b>				
02	3,156	B0 U0 G1	3,220	B0 U0 G1
04	6,311	B1 U0 G1	6,440	B1 U0 G1
06	9,359	B1 U0 G2	9,549	B1 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

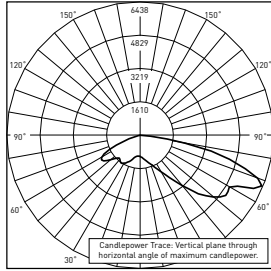
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



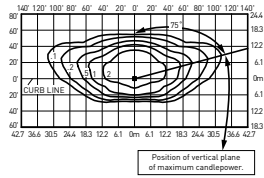
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**2MP**



RESTL Test Report #: PL10097-001B  
 ARE-EDG-2MP-\*\*-06-E-UL-525-40K  
 Initial Delivered Lumens: 9,149



ARE-EDG-2MP-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G.  
 Initial Delivered Lumens: 15,458  
 Initial FC at grade

Type II Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	2,209	B1 U0 G1	2,253	B1 U0 G1
04	4,418	B1 U0 G1	4,505	B1 U0 G1
06	6,551	B2 U0 G1	6,681	B2 U0 G1
08	8,735	B2 U0 G2	8,908	B2 U0 G2
10	10,892	B2 U0 G2	11,108	B2 U0 G2
12	13,071	B2 U0 G2	13,330	B2 U0 G2
14	15,153	B2 U0 G2	15,453	B2 U0 G3
16	17,317	B3 U0 G3	17,661	B3 U0 G3
<b>525mA</b>				
02	3,135	B1 U0 G1	3,200	B1 U0 G1
04	6,270	B1 U0 G1	6,401	B2 U0 G1
06	9,297	B2 U0 G2	9,492	B2 U0 G2
08	12,396	B2 U0 G2	12,656	B2 U0 G2
10	15,458	B2 U0 G3	15,782	B2 U0 G3
12	18,549	B3 U0 G3	18,938	B3 U0 G3
14	21,504	B3 U0 G3	21,954	B3 U0 G3
16	24,576	B3 U0 G3	25,091	B3 U0 G3
<b>700mA</b>				
02	3,700	B1 U0 G1	3,775	B1 U0 G1
04	7,400	B2 U0 G2	7,550	B2 U0 G2
06	10,973	B2 U0 G2	11,196	B2 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

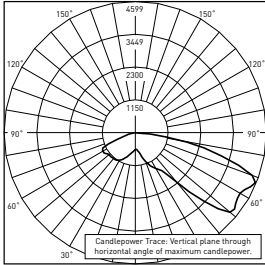
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



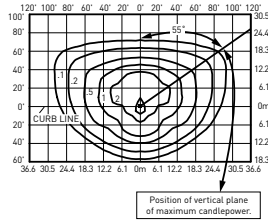
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**3M**



**RESTL Test Report #:** PL09405-001A  
**ARE-EDG-3M-\*\*-06-E-UL-525-40K**  
**Initial Delivered Lumens:** 9,460



**ARE-EDG-3M-\*\*-10-E-UL-525-40K**  
**Mounting Height:** 25' (7.6m) A.F.G.  
**Initial Delivered Lumens:** 16,594  
**Initial FC at grade**

Type III Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	2,371	B1 U0 G1	2,418	B1 U0 G1
04	4,743	B1 U0 G1	4,837	B1 U0 G1
06	7,033	B2 U0 G2	7,172	B2 U0 G2
08	9,377	B2 U0 G2	9,563	B2 U0 G2
10	11,693	B3 U0 G3	11,925	B3 U0 G3
12	14,032	B3 U0 G3	14,310	B3 U0 G3
14	16,267	B3 U0 G3	16,589	B3 U0 G3
16	18,591	B3 U0 G3	18,959	B3 U0 G3
<b>525mA</b>				
02	3,365	B1 U0 G1	3,436	B1 U0 G1
04	6,731	B2 U0 G2	6,872	B2 U0 G2
06	9,981	B3 U0 G3	10,190	B3 U0 G3
08	13,307	B3 U0 G3	13,586	B3 U0 G3
10	16,594	B3 U0 G3	16,942	B3 U0 G3
12	19,913	B3 U0 G3	20,330	B3 U0 G3
14	23,085	B3 U0 G3	23,569	B3 U0 G3
16	26,383	B4 U0 G4	26,936	B4 U0 G4
<b>700mA</b>				
02	3,972	B1 U0 G1	4,053	B1 U0 G1
04	7,944	B2 U0 G2	8,105	B2 U0 G2
06	11,779	B3 U0 G3	12,019	B3 U0 G3

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

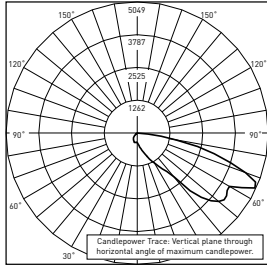
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



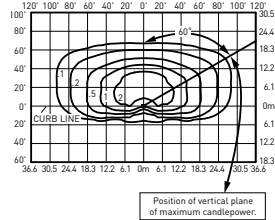
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**3MB**



RESTL Test Report #: PL10023-001B  
 ARE-EDG-3MB-\*\*-06-E-UL-525-40K  
 Initial Delivered Lumens: 7,602



ARE-EDG-3MB-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G.  
 Initial Delivered Lumens: 12,275  
 Initial FC at grade

Type III Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	1,754	B0 U0 G1	1,789	B0 U0 G1
04	3,508	B1 U0 G1	3,578	B1 U0 G1
06	5,202	B1 U0 G2	5,305	B1 U0 G2
08	6,936	B1 U0 G2	7,074	B1 U0 G2
10	8,650	B1 U0 G2	8,821	B1 U0 G2
12	10,380	B1 U0 G3	10,585	B1 U0 G3
14	12,033	B1 U0 G3	12,272	B1 U0 G3
16	13,752	B2 U0 G3	14,025	B2 U0 G3
<b>525mA</b>				
02	2,489	B0 U0 G1	2,542	B0 U0 G1
04	4,979	B1 U0 G2	5,083	B1 U0 G2
06	7,383	B1 U0 G2	7,538	B1 U0 G2
08	9,844	B1 U0 G2	10,050	B1 U0 G3
10	12,275	B1 U0 G3	12,532	B1 U0 G3
12	14,730	B2 U0 G3	15,039	B2 U0 G3
14	17,077	B2 U0 G3	17,434	B2 U0 G3
16	19,516	B2 U0 G3	19,925	B2 U0 G3
<b>700mA</b>				
02	2,938	B1 U0 G1	2,998	B1 U0 G1
04	5,876	B1 U0 G2	5,996	B1 U0 G2
06	8,714	B1 U0 G2	8,891	B1 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

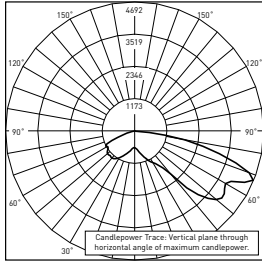
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



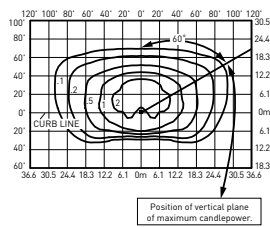
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**3MP**



**RESTL Test Report #:** PL10097-002B  
**ARE-EDG-3MP-\*\*-10-E-UL-525-40K**  
**Initial Delivered Lumens:** 8,670



**ARE-EDG-3MP-\*\*-10-E-UL-525-40K**  
**Mounting Height:** 25' (7.6m) A.F.G.  
**Initial Delivered Lumens:** 14,548  
**Initial FC at grade**

Type III Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	2,079	B1 U0 G1	2,120	B1 U0 G1
04	4,158	B1 U0 G1	4,240	B1 U0 G1
06	6,166	B1 U0 G2	6,288	B1 U0 G2
08	8,221	B2 U0 G2	8,384	B2 U0 G2
10	10,252	B2 U0 G2	10,455	B2 U0 G3
12	12,302	B2 U0 G3	12,546	B2 U0 G3
14	14,261	B3 U0 G3	14,544	B3 U0 G3
16	16,299	B3 U0 G3	16,622	B3 U0 G3
<b>525mA</b>				
02	2,950	B1 U0 G1	3,012	B1 U0 G1
04	5,901	B1 U0 G2	6,024	B1 U0 G2
06	8,750	B2 U0 G2	8,933	B2 U0 G2
08	11,667	B2 U0 G3	11,911	B2 U0 G3
10	14,548	B3 U0 G3	14,853	B3 U0 G3
12	17,458	B3 U0 G3	17,824	B3 U0 G3
14	20,239	B3 U0 G3	20,663	B3 U0 G3
16	23,130	B3 U0 G4	23,615	B3 U0 G4
<b>700mA</b>				
02	3,482	B1 U0 G1	3,553	B1 U0 G1
04	6,964	B2 U0 G2	7,106	B2 U0 G2
06	10,327	B2 U0 G2	10,537	B2 U0 G3

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

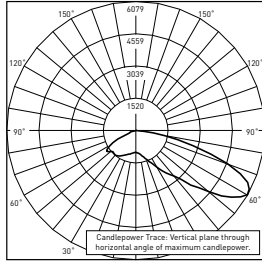
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



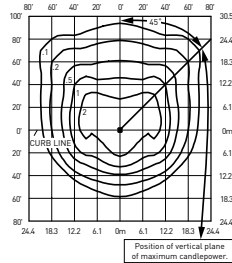
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**4M**



RESTL Test Report #: PL10270-001B  
 ARE-EDG-4M-\*\*-06-E-UL-525-40K  
 Initial Delivered Lumens: 10,483



ARE-EDG-4M-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G.  
 Initial Delivered Lumens: 17,504  
 Initial FC at grade

Type IV Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	2,501	B1 U0 G1	2,551	B1 U0 G1
04	5,003	B2 U0 G1	5,102	B2 U0 G1
06	7,418	B2 U0 G2	7,565	B2 U0 G2
08	9,891	B2 U0 G2	10,087	B2 U0 G2
10	12,334	B3 U0 G3	12,578	B3 U0 G3
12	14,801	B3 U0 G3	15,094	B3 U0 G3
14	17,158	B3 U0 G3	17,498	B3 U0 G3
16	19,609	B3 U0 G3	19,998	B3 U0 G3
<b>525mA</b>				
02	3,550	B1 U0 G1	3,624	B1 U0 G1
04	7,099	B2 U0 G2	7,248	B2 U0 G2
06	10,527	B2 U0 G2	10,748	B2 U0 G2
08	14,037	B3 U0 G3	14,331	B3 U0 G3
10	17,504	B3 U0 G3	17,870	B3 U0 G3
12	21,004	B3 U0 G3	21,444	B3 U0 G3
14	24,350	B4 U0 G3	24,860	B4 U0 G3
16	27,828	B4 U0 G3	28,411	B4 U0 G3
<b>700mA</b>				
02	4,189	B1 U0 G1	4,275	B1 U0 G1
04	8,379	B2 U0 G2	8,549	B2 U0 G2
06	12,425	B3 U0 G3	12,678	B3 U0 G3

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

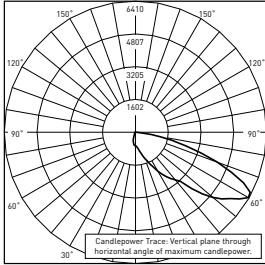
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



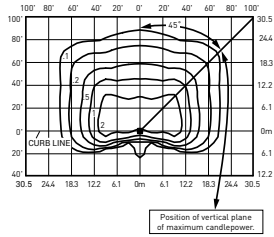
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**4MB**



RESTL Test Report #: PL01023-002B  
ARE-EDG-4MB-\*\*-06-E-UL-525-40K  
Initial Delivered Lumens: 7,985



ARE-EDG-4MB-\*\*-10-E-UL-525-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 13,185  
Initial FC at grade

Type IV Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	1,884	B0 U0 G1	1,921	B0 U0 G1
04	3,768	B1 U0 G1	3,843	B1 U0 G1
06	5,588	B1 U0 G1	5,698	B1 U0 G2
08	7,450	B1 U0 G2	7,598	B1 U0 G2
10	9,291	B1 U0 G2	9,475	B1 U0 G2
12	11,149	B1 U0 G2	11,370	B1 U0 G2
14	12,924	B1 U0 G2	13,181	B1 U0 G2
16	14,771	B2 U0 G2	15,063	B2 U0 G2
<b>525mA</b>				
02	2,674	B0 U0 G1	2,730	B0 U0 G1
04	5,348	B1 U0 G1	5,460	B1 U0 G1
06	7,930	B1 U0 G2	8,096	B1 U0 G2
08	10,573	B1 U0 G2	10,794	B1 U0 G2
10	13,185	B1 U0 G2	13,461	B1 U0 G2
12	15,821	B2 U0 G3	16,153	B2 U0 G3
14	18,341	B2 U0 G3	18,726	B2 U0 G3
16	20,962	B2 U0 G3	21,401	B2 U0 G3
<b>700mA</b>				
02	3,156	B1 U0 G1	3,220	B1 U0 G1
04	6,311	B1 U0 G2	6,440	B1 U0 G2
06	9,359	B1 U0 G2	9,549	B1 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

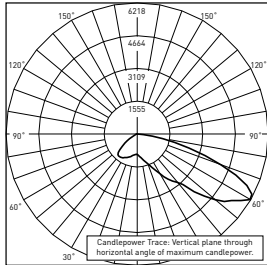
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



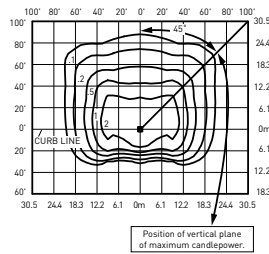
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**4MP**



RESTL Test Report #: PL10097-003B  
 ARE-EDG-4MP-\*\*-06-E-UL-525-40K  
 Initial Delivered Lumens: 9,410



ARE-EDG-4MP-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G.  
 Initial Delivered Lumens: 15,458  
 Initial FC at grade

Type IV Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	2,209	B1 U0 G1	2,253	B1 U0 G1
04	4,418	B1 U0 G1	4,505	B1 U0 G1
06	6,551	B2 U0 G1	6,681	B2 U0 G1
08	8,735	B2 U0 G2	8,908	B2 U0 G2
10	10,892	B2 U0 G2	11,108	B2 U0 G2
12	13,071	B2 U0 G2	13,330	B2 U0 G2
14	15,153	B3 U0 G2	15,453	B3 U0 G2
16	17,317	B3 U0 G2	17,661	B3 U0 G2
<b>525mA</b>				
02	3,135	B1 U0 G1	3,200	B1 U0 G1
04	6,270	B2 U0 G1	6,401	B2 U0 G1
06	9,297	B2 U0 G2	9,492	B2 U0 G2
08	12,396	B2 U0 G2	12,656	B2 U0 G2
10	15,458	B3 U0 G2	15,782	B3 U0 G2
12	18,549	B3 U0 G2	18,938	B3 U0 G3
14	21,504	B3 U0 G3	21,954	B3 U0 G3
16	24,576	B3 U0 G3	25,091	B3 U0 G3
<b>700mA</b>				
02	3,700	B1 U0 G1	3,775	B1 U0 G1
04	7,400	B2 U0 G2	7,550	B2 U0 G2
06	10,973	B2 U0 G2	11,196	B2 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

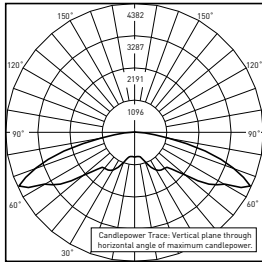
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



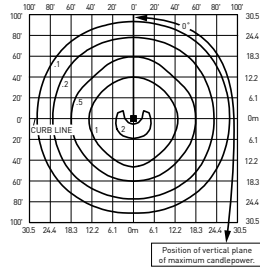
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**5M**



RESTL Test Report #: PL09285-001  
 ARE-EDG-5M-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 13,136



ARE-EDG-5M-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G.  
 Initial Delivered Lumens: 18,413  
 Initial FC at grade

Type V Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	2,631	B2 U0 G1	2,683	B2 U0 G1
04	5,262	B3 U0 G1	5,367	B3 U0 G1
06	7,804	B3 U0 G2	7,958	B3 U0 G2
08	10,405	B4 U0 G2	10,611	B4 U0 G2
10	12,975	B4 U0 G2	13,232	B4 U0 G2
12	15,570	B4 U0 G3	15,878	B4 U0 G3
14	18,049	B4 U0 G3	18,407	B4 U0 G3
16	20,628	B5 U0 G3	21,037	B5 U0 G3
<b>525mA</b>				
02	3,734	B2 U0 G1	3,812	B2 U0 G1
04	7,468	B3 U0 G2	7,625	B3 U0 G2
06	11,074	B4 U0 G2	11,306	B4 U0 G2
08	14,766	B4 U0 G2	15,075	B4 U0 G3
10	18,413	B4 U0 G3	18,799	B4 U0 G3
12	22,096	B5 U0 G3	22,558	B5 U0 G3
14	25,615	B5 U0 G3	26,151	B5 U0 G3
16	29,274	B5 U0 G3	29,887	B5 U0 G3
<b>700mA</b>				
02	4,407	B3 U0 G1	4,497	B3 U0 G1
04	8,814	B3 U0 G2	8,993	B3 U0 G2
06	13,070	B4 U0 G2	13,336	B4 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

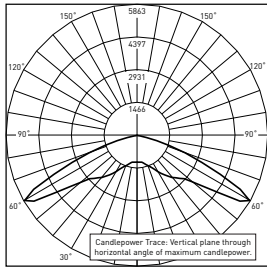
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



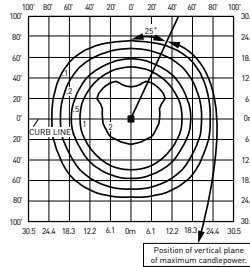
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

55



RESTL Test Report #: PL09286-001A  
 ARE-EDG-5S-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 14,123



ARE-EDG-5S-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G.  
 Initial Delivered Lumens: 20,459  
 Initial FC at grade

Type V Short Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>350mA</b>				
02	2,924	B2 U0 G0	2,982	B2 U0 G0
04	5,847	B3 U0 G1	5,963	B3 U0 G1
06	8,671	B3 U0 G1	8,842	B3 U0 G1
08	11,561	B3 U0 G2	11,790	B3 U0 G2
10	14,416	B4 U0 G2	14,702	B4 U0 G2
12	17,300	B4 U0 G2	17,642	B4 U0 G2
14	20,055	B4 U0 G2	20,453	B4 U0 G2
16	22,920	B4 U0 G2	23,374	B4 U0 G2
<b>525mA</b>				
02	4,149	B2 U0 G1	4,236	B2 U0 G1
04	8,298	B3 U0 G1	8,472	B3 U0 G1
06	12,305	B3 U0 G2	12,563	B3 U0 G2
08	16,406	B4 U0 G2	16,750	B4 U0 G2
10	20,459	B4 U0 G2	20,887	B4 U0 G2
12	24,551	B4 U0 G2	25,065	B4 U0 G2
14	28,461	B5 U0 G3	29,057	B5 U0 G3
16	32,527	B5 U0 G3	33,208	B5 U0 G3
<b>700mA</b>				
02	4,897	B2 U0 G1	4,996	B2 U0 G1
04	9,793	B3 U0 G1	9,993	B3 U0 G2
06	14,523	B4 U0 G2	14,818	B4 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

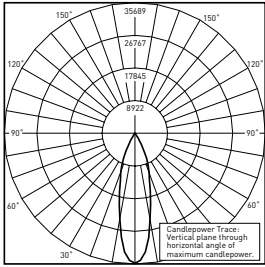
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



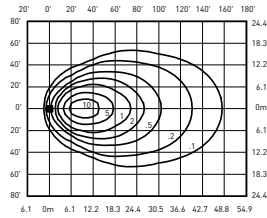
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**25°**



RESTL Test Report #: PL09832-003B  
 FLD-EDG-25-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 14,998



FLD-EDG-25-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt  
 Initial Delivered Lumens: 20,913  
 Initial FC at grade

25° Flood Distribution		
LED Count (x10)	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*
<b>350mA</b>		
02	2,989	3,048
04	5,977	6,096
06	8,863	9,039
08	11,818	12,052
10	14,737	15,029
12	17,684	18,035
14	20,501	20,907
16	23,429	23,894
<b>525mA</b>		
02	4,241	4,330
04	8,482	8,660
06	12,578	12,842
08	16,771	17,122
10	20,913	21,352
12	25,096	25,622
14	29,093	29,703
16	33,250	33,946
<b>700mA</b>		
02	5,006	5,107
04	10,011	10,215
06	14,845	15,147

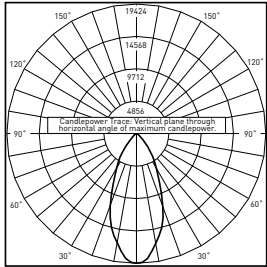
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens



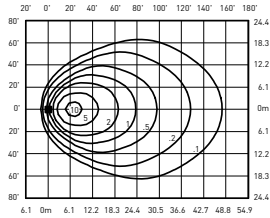
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

40°



RESTL Test Report #: PL09832-002B  
 FLD-EDG-40-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 13,808



FLD-EDG-40-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt  
 Initial Delivered Lumens: 20,459  
 Initial FC at grade

40° Flood Distribution		
LED Count (x10)	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*
<b>350mA</b>		
02	2,924	2,982
04	5,847	5,963
06	8,671	8,842
08	11,561	11,790
10	14,416	14,702
12	17,300	17,642
14	20,055	20,453
16	22,920	23,374
<b>525mA</b>		
02	4,149	4,236
04	8,298	8,472
06	12,305	12,563
08	16,406	16,750
10	20,459	20,887
12	24,551	25,065
14	28,461	29,057
16	32,527	33,208
<b>700mA</b>		
02	4,897	4,996
04	9,793	9,993
06	14,523	14,818

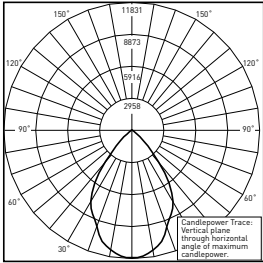
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens



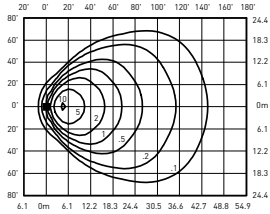
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: \_

**70°**



RESTL Test Report #: PL09832-001B  
 FLD-EDG-70-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 13,888



FLD-EDG-70-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt  
 Initial Delivered Lumens: 18,640  
 Initial FC at grade

70° Flood Distribution		
LED Count (x10)	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*
<b>350mA</b>		
02	2,664	2,716
04	5,327	5,433
06	7,900	8,056
08	10,533	10,742
10	13,135	13,395
12	15,762	16,074
14	18,272	18,635
16	20,883	21,297
<b>525mA</b>		
02	3,780	3,859
04	7,560	7,719
06	11,211	11,446
08	14,948	15,261
10	18,640	19,031
12	22,368	22,837
14	25,931	26,474
16	29,636	30,256
<b>700mA</b>		
02	4,461	4,552
04	8,923	9,104
06	13,232	13,501

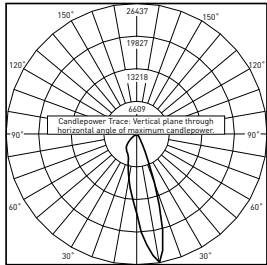
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens



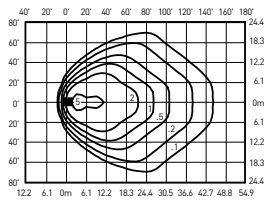
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**SN**



RESTL Test Report #: PL10142-001B  
 FLD-EDG-SN-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 13,701



FLD-EDG-SN-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt  
 Initial Delivered Lumens: 18,868  
 Initial FC at grade

SN Flood Distribution		
LED Count (x10)	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*
<b>350mA</b>		
02	2,696	2,750
04	5,392	5,499
06	7,996	8,155
08	10,662	10,873
10	13,295	13,559
12	15,954	16,270
14	18,495	18,862
16	21,137	21,556
<b>525mA</b>		
02	3,826	3,906
04	7,653	7,813
06	11,348	11,585
08	15,130	15,447
10	18,868	19,263
12	22,641	23,115
14	26,247	26,797
16	29,997	30,625
<b>700mA</b>		
02	4,516	4,608
04	9,032	9,215
06	13,393	13,665

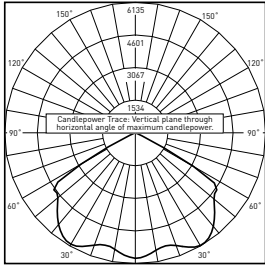
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens



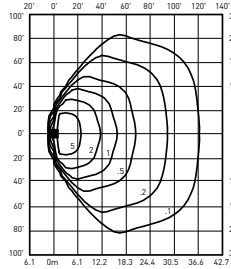
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/area/cree-edge-series-1>

**N6**



RESTL Test Report #: PL09832-004B  
 FLD-EDG-N6-\*\*-D6-E-UL-700-40K  
 Initial Delivered Lumens: 15,251









FLD-EDG-N6-\*\*-10-E-UL-525-40K  
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt  
 Initial Delivered Lumens: 20,913  
 Initial FC at grade










NEMA® 6 Flood Distribution		
LED Count (x10)	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*
<b>350mA</b>		
02	2,989	3,048
04	5,977	6,096
06	8,863	9,039
08	11,818	12,052
10	14,737	15,029
12	17,684	18,035
14	20,501	20,907
16	23,429	23,894
<b>525mA</b>		
02	4,241	4,330
04	8,482	8,660
06	12,578	12,842
08	16,771	17,122
10	20,913	21,352
12	25,096	25,622
14	29,093	29,703
16	33,250	33,946
<b>700mA</b>		
02	5,006	5,107
04	10,011	10,215
06	14,845	15,147

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens



**Luminaire EPA**










<b>Fixed Arm Mount – ARE-EDG-DA</b>						
LED Count (x10)	Single	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
						
02	0.60	0.87	1.20	1.47	1.47	1.75
04	0.60	0.87	1.20	1.47	1.47	1.75
06	0.60	0.92	1.20	1.51	1.51	1.83
08	0.60	0.96 N/A with 3" poles	1.20	1.55 N/A with 3" poles	1.55	1.91 N/A with 3" poles
10	0.60	1.00 N/A with 3" poles	1.20	1.60 N/A with 3" poles	1.60	2.00 N/A with 3" poles
12	0.60	1.04 N/A with 3" poles	1.20	1.64 N/A with 3" poles	1.64	2.08 N/A with 3" poles
14	0.60	1.08 N/A with 3" or 4" poles	1.20	1.68 N/A with 3" or 4" poles	1.68	2.16 N/A with 3" or 4" poles
16	0.60	1.12 N/A with 3" or 4" poles	1.20	1.72 N/A with 3" or 4" poles	1.72	2.24 N/A with 3" or 4" poles
<b>Fixed Arm Mount – ARE-EDG-DL</b>						
02	0.75	1.02	1.50	1.77	1.77	1.91
04	0.75	1.02	1.50	1.77	1.77	1.91
06	0.75	1.07	1.50	1.82	1.82	1.98
08	0.75	1.11	1.50	1.86	1.86	2.04
10	0.75	1.15	1.50	1.90	1.90	2.10
12	0.75	1.19	1.50	1.94	1.94	2.16
14	0.75	1.23	1.50	1.98	1.98	2.22
16	0.75	1.27	1.50	2.02	2.02	2.28

<b>Adjustable Arm Mount – ARE-EDG-AA/FLD-EDG-AA/SA</b>									
LED Count (x10)	Single	2 @ 90°	2 @ 180°	In-Line 2 @ 180°	3 @ 90°	3 @ 120°	In-Line 3 @ 180°	4 @ 90°	In-Line 4 @ 180°
<b>Tenon Configuration</b> If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA									
									
	Vertical: PB-1A*; PT-1; PW-1A3** Horizontal: By others	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(90); PT-2(90)	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(180); PT-2(180)	Vertical: PB-2A*; PB-2R2.375	Vertical: PB-3A*; PB-3R2.375 Horizontal: PD-3A4(90); PT-3(90)	Vertical: PB-3A*; PB-3R2.375 Horizontal: PT-3(120)	Vertical: PB-3A*; PB-3R2.375	Vertical: PB-4A*(90); PB-4R2.375 Horizontal: PD-4A4(90) PT-4(90)	Vertical: PB-4A*(180); PB-4R2.375
<b>0° Tilt</b>									
02	0.66	0.98	1.32	1.32	1.77	1.64	1.98	1.91	2.64
04	0.66	0.98	1.32	1.32	1.64	1.64	1.98	1.97	2.64
06	0.66	1.02	1.32	1.32	1.68	1.68	1.98	2.05	2.64
08	0.66	1.07	1.32	1.32	1.80	1.72	1.98	2.29	2.64
10	0.66	1.11	1.32	1.32	1.76	1.76	1.98	2.21	2.64
12	0.66	1.15	1.32	1.32	1.80	1.80	1.98	2.29	2.64
14	0.66	1.19	1.32	1.32	1.84	1.84	1.98	2.38	2.64
16	0.66	1.23	1.32	N/A	1.89	1.89	N/A	2.46	N/A

\* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation  
 \*\* These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")












**Luminaire EPA**

Adjustable Arm Mount – ARE-EDG-AA/FLD-EDG-AA/SA									
LED Count (x10)	Single	2 @ 90°	2 @ 180°	In-Line 2 @ 180°	3 @ 90°	3 @ 120°	In-Line 3 @ 180°	4 @ 90°	In-Line 4 @ 180°
<b>Tenon Configuration</b> If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA									
									
	Vertical: PB-1A*; PT-1; PW-1A3** Horizontal: By others	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(90); PT-2(90)	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(180); PT-2(180)	Vertical: PB-2A*; PB-2R2.375	Vertical: PB-3A*; PB-3R2.375 Horizontal: PD-3A4(90); PT-3(90)	Vertical: PB-3A*; PB-3R2.375 Horizontal: PT-3(120)	Vertical: PB-3A*; PB-3R2.375	Vertical: PB-4A*(90); PB-4R2.375 Horizontal: PD-4A4(90) PT-4(90)	Vertical: PB-4A*(180); PB-4R2.375
<b>30° Tilt</b>									
02	0.71	1.37	1.42	1.42	2.08	2.08	2.13	2.73	2.84
04	0.71	1.37	1.42	1.42	2.08	2.08	2.13	2.73	2.84
06	0.82	1.48	1.64	1.64	2.30	2.30	2.46	2.95	3.28
08	0.93	1.59	1.86	1.86	2.52	2.52	2.79	3.17	3.72
10	1.04	1.70	2.08	2.08	2.74	2.74	3.12	3.40	4.16
12	1.15	1.81	2.30	2.30	2.96	2.96	3.45	3.62	4.60
14	1.26	1.92	2.52	2.52	3.18	3.18	3.78	3.84	5.04
16	1.37	2.03	2.74	N/A	3.40	3.40	N/A	4.06	N/A
<b>45° Tilt</b>									
02	0.89	1.55	1.78	1.78	2.45	2.45	2.67	3.10	3.56
04	0.89	1.55	1.78	1.78	2.45	2.45	2.67	3.10	3.56
06	1.03	1.69	2.06	2.06	2.72	2.72	3.09	3.38	4.12
08	1.17	1.83	2.34	2.34	3.00	3.00	3.51	3.66	4.68
10	1.31	1.97	2.62	2.62	3.28	3.28	3.93	3.94	5.24
12	1.45	2.11	2.90	2.90	3.56	3.56	4.35	4.21	5.80
14	1.59	2.25	3.18	3.18	3.83	3.83	4.77	4.49	6.36
16	1.73	2.38	3.46	N/A	4.11	4.11	N/A	4.77	N/A
<b>60° Tilt</b>									
02	1.20	1.86	2.40	2.40	3.06	3.06	3.60	3.72	4.80
04	1.20	1.86	2.40	2.40	3.06	3.06	3.60	3.72	4.80
06	1.39	2.05	2.78	2.78	3.44	3.44	4.17	4.10	5.56
08	1.58	2.23	3.16	3.16	3.81	3.81	4.74	4.47	6.32
10	1.77	2.42	3.54	3.54	4.19	4.19	5.31	4.84	7.08
12	1.95	2.61	3.90	3.90	4.56	4.56	5.85	5.22	7.80
14	2.14	2.80	4.28	4.28	4.94	4.94	6.42	5.59	8.56
16	2.33	2.98	4.66	N/A	5.31	5.31	N/A	5.97	N/A

\* Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"] for single, double or triple luminaire orientation or 4 [4"], 5 [5"], or 6 [6"] for quad luminaire orientation  
 \*\* These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"]



**Luminaire EPA**

Adjustable Arm Mount – ARE-EDG-AA/FLD-EDG-AA/SA									
LED Count (x10)	Single	2 @ 90°	2 @ 180°	In-Line 2 @ 180°	3 @ 90°	3 @ 120°	In-Line 3 @ 180°	4 @ 90°	In-Line 4 @ 180°
<b>Tenon Configuration</b> If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA									
									
	Vertical: PB-1A*; PT-1; PW-1A3** Horizontal: By others	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(90); PT-2(90)	Vertical: PB-2A*; PB-2R2.375; PW-2A3** Horizontal: PD-2A4(180); PT-2(180)	Vertical: PB-2A*; PB-2R2.375	Vertical: PB-3A*; PB-3R2.375 Horizontal: PD-3A4(90); PT-3(90)	Vertical: PB-3A*; PB-3R2.375 Horizontal: PT-3(120)	Vertical: PB-3A*; PB-3R2.375	Vertical: PB-4A*(90); PB-4R2.375 Horizontal: PD-4A4(90) PT-4(90)	Vertical: PB-4A*(180); PB-4R2.375
<b>90° Tilt</b>									
02	1.85	2.51	3.70	3.64	4.36	4.36	5.55	5.02	7.40
04	1.85	2.51	3.70	3.64	4.36	4.36	5.55	5.02	7.40
06	2.14	2.80	4.28	4.22	4.94	4.94	6.42	5.59	8.56
08	2.43	3.09	4.86	4.78	5.51	5.51	7.29	6.17 N/A with horizontal tenon	9.72
10	2.71	3.37	5.42	5.34	6.08	6.08	8.13	6.74 N/A with horizontal tenon	10.84
12	3.00	3.66	6.00	5.90	6.66	6.66	9.00	7.31 N/A with horizontal tenon	12.00
14	3.29	3.95 N/A with PW-2A3**	6.58	6.48	7.23	7.23	9.87	7.89 N/A with horizontal tenon	13.16
16	3.57	4.23 N/A with PW-2A3**	7.14	N/A	7.81	7.81	N/A	8.46 N/A with horizontal tenon	N/A

\* Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"] for single, double or triple luminaire orientation or 4 [4"], 5 [5"], or 6 [6"] for quad luminaire orientation  
 \*\* These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"]

**Tenon EPA**

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

\* Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"] for single, double or triple luminaire orientation or 4 [4"], 5 [5"], or 6 [6"] for quad luminaire orientation  
 \*\* These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"]

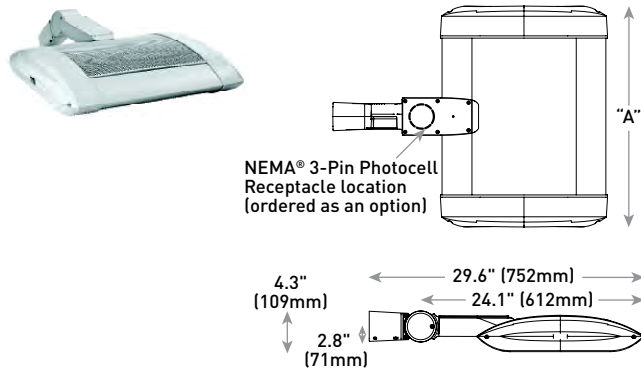
Tenons and Brackets <sup>†</sup> (must specify color)	
<p><b>Square Internal Mount Vertical Tenons (Steel)</b>                      - Mounts to 3-6" [76-152mm] square aluminum or steel poles                      PB-1A* – Single PB-4A*(90) – 90° Quad                      PB-2A* – 180° Twin PB-4A*(180) – 180° Quad                      PB-3A* – 180° Triple</p> <p><b>Square Internal Mount Horizontal Tenons (Aluminum)</b>                      - Mounts to 4" [102mm] square aluminum or steel poles                      PD-2A4(90) – 90° Twin PD-3A4(90) – 90° Triple                      PD-2A4(180) – 180° Twin PD-4A4(90) – 90° Quad</p> <p><b>Wall Mount Brackets</b>                      - Mounts to wall or roof                      WM-2 – Horizontal for AA and SA mounts                      WM-4 – L-Shape for AA and SA mounts                      WM-DM – Plate for DA and DL mounts</p>	<p><b>Round External Mount Vertical Tenons (Steel)</b>                      - Mounts to 2.375" [60mm] O.D. round aluminum or steel poles or tenons                      PB-2R2.375 – Twin PB-4R2.375 – Quad                      PB-3R2.375 – Triple</p> <p><b>Round External Mount Horizontal Tenons (Aluminum)</b>                      - Mounts to 2.375" [60mm] O.D. round aluminum or steel poles or tenons                      - Mounts to square pole with PB-1A* tenon                      PT-1 – Single (Vertical) PT-3(90) – 90° Triple                      PT-2(90) – 90° Twin PT-3(120) – 120° Triple                      PT-2(180) – 180° Twin PT-4(90) – 90° Quad</p> <p><b>Mid-Pole Bracket</b>                      - Mounts to square pole                      PW-1A3** – Single PW-2A3** – Double</p> <p><b>Ground Mount Post</b>                      - For ground mounted flood luminaires                      PGM-1                      - For use with AA and SA mounts</p>

<sup>†</sup> Refer to the [Bracket and Tenons spec sheet](#) for more details



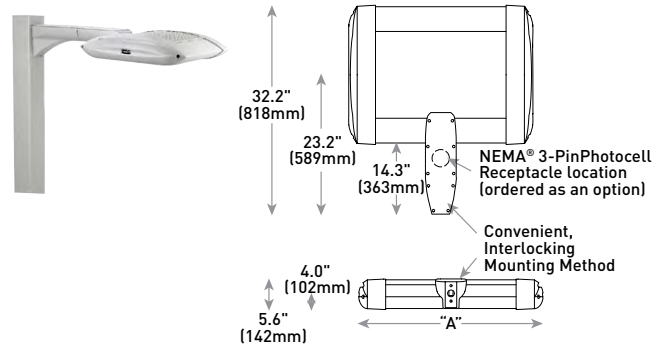
THE EDGE® LED Area/Flood Luminaire

**AA Mount**



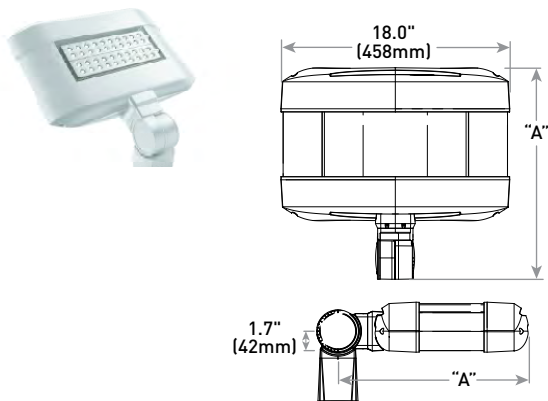
LED Count (x10)	Dim. "A"	Weight
02	12.1" (306mm)	21 lbs. (10kg)
04	12.1" (306mm)	24 lbs. (11kg)
06	14.1" (357mm)	27 lbs. (12kg)
08	16.1" (408mm)	28 lbs. (13kg)
10	18.1" (459mm)	32 lbs. (15kg)
12	20.1" (510mm)	34 lbs. (15kg)
14	22.1" (560mm)	37 lbs. (17kg)
16	24.1" (611mm)	41 lbs. (19kg)

**DL Mount**



LED Count (x10)	Dim. "A"	Weight
02	12.1" (306mm)	23 lbs. (10kg)
04	12.1" (306mm)	26 lbs. (12kg)
06	14.1" (357mm)	29 lbs. (13kg)
08	16.1" (408mm)	30 lbs. (14kg)
10	18.1" (459mm)	34 lbs. (15kg)
12	20.1" (510mm)	36 lbs. (16kg)
14	22.1" (560mm)	42 lbs. (19kg)
16	24.1" (611mm)	44 lbs. (20kg)

**SA Mount**



LED Count (x10)	Dim. "A"	Weight
02	16.0" (406mm)	25 lbs. (11kg)
04	18.0" (457mm)	26 lbs. (12kg)
06	20.0" (508mm)	28 lbs. (13kg)

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# **Nantucket Sound Sons Site Plan**



MAY 24 2021

TOWN OF YORKTOWN

To: Yorktown Planning Board  
From: Yorktown Tree Conservation Advisory Commission (TCAC)  
Date: May 24, 2021  
cc: Yorktown Planning Dept. (J. Tegeder, R. Steinberg, N. Calicchia);  
Conservation Board (K. Hughes); Town Supervisor (M. Slater);  
Town Clerk (D. Quast); Engineering Dept. (L. Kobiliak)

**Re: TCAC queries/comments on Nantucket Sound Sons, LLC (Kear St.) mitigation plan**

Dear Chairman Fon and members of the Planning Board:

1. Who is the owner(s) of the proposed off-site work area and by what criteria was it chosen? What are the dimensions of the proposed work area?
2. As the proposed work area appears to be along and adjacent to the Mohansic Trailway, the TCAC suggests, if it has not already done so, that the Yorktown Trail Town Committee review the mitigation proposal.
3. Assuming that The New York-New Jersey Trail Conference (NY-NJTC) will have maintenance responsibilities for this section of trail under the trail management agreement with the Town, the NY-NJTC should be consulted about the proposed mitigation plan. The NY-NJTC has developed a highly regarded program of invasive species mitigation for its trail network.

Sincerely,

Bill Kellner, Chair, Tree Conservation Advisory Commission  
Lawrence W. Klein, PE, Member  
Keith Schepart, ISA, Member  
Tom Schmitt, Member



Diane Dreier Co-Chair  
Phyllis Bock Co-Chair

Matthew Slater  
Town Supervisor

## TOWN OF YORKTOWN CONSERVATION BOARD

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Town of Yorktown Town Hall, 363 Underhill Avenue, Yorktown Heights, New York 10598, Phone (914) 962-5722

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### MEMORANDUM

**To:** Planning Board  
**From:** Conservation Board  
**Date:** May 20, 2021  
**Re:** Nantucket Sound LLC Kear Street

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RECEIVED  
PLANNING DEPARTMENT  
MAY 24 2021  
TOWN OF YORKTOWN

The Conservation Board at its May 19, 2021 meeting discussed Nantucket Sound LLC located on Kear Street with Joe Riina of Site Designs and Frank Giuliano. The Conservation Board has the following comments:

The applicant put forward a tree mitigation plan for off-site mitigation along the trail extension that leads from Rt. 118 into FDR State Park. The applicant proposes to remove invasive species and plant native trees, shrubs and an appropriate seed mix. The Conservation Board finds this as acceptable mitigation. The Board would like to see a completed landscape and tree mitigation plan.

Respectfully submitted:

*Phyllis Bock*

For the Conservation Board

CC: Town Board  
Planning Board  
Supervisors Office  
Engineering Dept.  
Applicant



State Environmental Quality Review  
**NEGATIVE DECLARATION**  
Notice of Determination of Non-Significance

Project Number: N/A

Date:

This notice is issued pursuant to Part 617 of the implementing regulations pertaining to Article 8 (State Environmental Quality Review Act) of the Environmental Conservation Law.

The Town of Yorktown Planning Board as lead agency, has determined that the proposed action described below will not have a significant environmental impact and a Draft Impact Statement will not be prepared.

**Name of Action:**

Nantucket Sound Sons Site Plan

**SEQR Status:** Type 1   
Unlisted

**Conditioned Negative Declaration:**  Yes  
 No

**Description of Action:**

The applicant has proposed to construct a three-story 8,169 sf building with 2,567 sf retail space on the first floor facing Kear Street and 3 apartments on each of the upper two floors.

**Location:** Location: 385 Kear Street, Town of Yorktown, County of Westchester  
Section 37.12, Block 2, Lot 86



**Reasons Supporting This Determination:**

(See 617.7(a)-(c) for requirements of this determination ; see 617.7(d) for Conditioned Negative Declaration)

- 1) This negative declaration is based on a Short Environmental Assessment Form dated February 10, 2020.
- 2) The plan conforms to the Town's Land Use and Zoning Policies.
- 3) For reason of its size this project will not have an impact on Town services.
- 4) After evaluating the relevant areas of environmental concern, the Planning Board concludes that there will be no significant adverse impacts on the environment as a result of the approval of the proposed development of the subject site.

**If Conditioned Negative Declaration**, provide on attachment the specific mitigation measures imposed, and identify comment period (not less than 30 days from date of publication in the ENB)

**For Further Information:**

Contact Person:        **Robyn Steinberg**

Address:                **1974 Commerce Street, Yorktown Heights, NY 10598**

Telephone Number:    **(914) 962-6565**

**For Type 1 Actions and Conditioned Negative Declarations, a Copy of this Notice is sent to:**

- Commissioner, Department of Environmental Conservation, 50 Wolf Road, Albany, New York 12233-0001
- Appropriate Regional Office of the DEC
- Office of the Chief Executive Officer of the political subdivision in which the action will be principally located.
  
- Applicant
- Other involved Agencies (if any)



**PLANNING BOARD  
TOWN OF YORKTOWN**

**RESOLUTION APPROVING  
SITE PLAN, A STORMWATER MANAGEMENT PLAN,  
AND A TREE REMOVAL PERMIT FOR  
NANTUCKET SOUND SONS, LLC AT 355 KEAR STREET**

**RESOLUTION NUMBER: #00-00**

**DATE:**

On motion of \_\_\_\_\_, seconded by \_\_\_\_\_, and unanimously voted in favor by Fon, LaScala, Bock, Garrigan, and Visconti, the following resolution was adopted:

WHEREAS in accordance with the Planning Board's Land Development Regulations, Town of Yorktown Town Code Chapter 195, adopted February 4, 1969 and as amended, a formal application for the approval of a site plan titled "Site Plan," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020, was submitted to the Planning Board on behalf of Nantucket Sound Sons, LLC (hereinafter referred to as "the Applicant"); and

WHEREAS the property owned by the Applicant is located at 355 Kear Street, Yorktown Heights, also known as Section 37.18, Block 2, Lot 86 on the Town of Yorktown Tax Map (hereinafter referred to as "the Property"), and the applicant has represented to this board that they are the lawful owners of the land within said site plan; and

WHEREAS an application fee of \$4,080.00 covering 0.36 acres has NOT been received by this Board; and

WHEREAS pursuant to SEQRA:

1. The action has been identified as an Unlisted action.
2. The Planning Board has been declared Lead Agency on \_\_\_\_\_.
3. A Negative Declaration has been adopted on \_\_\_\_\_ on the basis of a Short EAF dated February 10, 2020.

WHEREAS the applicant has submitted as part of his application the following maps and documents:

**Site Plans**

1.  A map, Sheet 1 of 12, titled "Site Plan," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
2.  A map, Sheet 2 of 12, titled "Existing Conditions," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
3.  A map, Sheet 3 of 12, titled "E&SC Plan," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and



4.  A map, Sheet 4 of 12, titled "Improvement Plan," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
5.  A map, Sheet 5 of 12, titled "Lighting," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
6.  A map, Sheet 6 of 12, titled "Landscape Plan," prepared by Site Design Consultants, dated February 20, 2020, and last revised August 25, 2020; and
7.  A map, Sheet 7 of 12, titled "Profiles," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
8.  A map, Sheet 8 of 12, titled "E&SC Notes & Details," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
9.  A map, Sheet 9 of 12, titled "Site Details," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
10.  A map, Sheet 10 of 12, titled "Site Details 2," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
11.  A map, Sheet 11 of 12, titled "Drainage Details," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and
12.  A map, Sheet 12 of 12, titled "Stormwater Details," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020; and

**Architectural Plans**

13.  A drawing, Sheet AR0.01 titled "Kear Street Building," prepared by Joseph G. Thompson Architect, PLLC, dated and last revised February 10, 2020; and
14.  A drawing, Sheet A1.01 titled "Kear Street Building," prepared by Joseph G. Thompson Architect, PLLC, dated and last revised February 10, 2020; and
15.  A drawing, Sheet A1.02 titled "Kear Street Building," prepared by Joseph G. Thompson Architect, PLLC, dated and last revised February 10, 2020; and
16.  A drawing, Sheet A2.01 titled "Kear Street Building," prepared by Joseph G. Thompson Architect, PLLC, dated and last revised February 10, 2020; and
17.

**Additional Documents & Reports**

18.  A report, titled "Stormwater Management Plan," prepared by Site Design Consultants, dated and last revised June, 2020; and

WHEREAS the building materials and colors have been reviewed by the Advisory Board on Architecture & Community Appearance and recommended for approval by this Board, pursuant to their memo dated \_\_\_\_\_; and

WHEREAS as per Section §300-21D(10)(a)[1][2] mixed use development is an allowed use in the C2-R Zone (Commercial Hamlet Center District); and

WHEREAS pursuant to Section §300-182A(1)&(3) of the Town of Yorktown Town Code,



the applicant has provided 2.2 parking spaces for every residential dwelling and four (4) parking spaces for every 1,000 square feet of GFA designated as retail use, thereby requiring a total of 23 parking spaces as shown on the site plan; and

WHEREAS the Property is located within a Designated Main Street Area and must receive approval from the New York City Department of Environmental Protection before the site plan is signed by the Planning Board Chairman; and

WHEREAS in accordance with Town Code Chapter 248, "Stormwater Management and Erosion Sediment Control", the applicant has proposed catch basins running to Downstream Defenders for Stormwater treatment and has provided details in the plan set. The stormwater is then stored in the proposed stormtech chambers after being treated by the Downstream Defenders. There is to be a drainage pipe that will be constructed in one day to prevent sediment from the property from flowing into the Kear Street drainage system as noted in the plan set. There are also details for the soil stock pile area, as noted in the plan set; and

WHEREAS pursuant to Town Code Chapter 270, "Trees", the is proposing to remove 43 trees totaling 514.94 inches and as shown on the Landscape Plan, Sheet 6 of 12 listed herein, the applicant is proposing to plant 93 trees and 155 shrubs/groundcovers of different species to mitigate the removed trees and landscape the property; and

WHEREAS the Planning Board has referred this application to the following boards and agencies and has received and considered reports of the following:

<b>Boards &amp; Agencies</b>	<b>Report Date</b>
ABACA	03/19/20, 08/26/20
Conservation Board	07/16/20, 05/20/21
Fire Inspector	07/09/20
Planning Department	05/03/19, 10/04/19, 02/04/20, 07/10/20
Town Engineer	09/09/20
Tree Conservation Advisory Commission	04/27/20, 07/13/20, 05/24/21
NYC DEP	04/28/20
Westchester County Planning Board	04/24/20

WHEREAS the requirements of this Board's Land Development Regulations, Town Code Chapter 195, have been met; and

WHEREAS a Public Informational Hearing was held via video conference in accordance with §195-39(B)(1) of the Yorktown Town Code on the said site plan application on April 27, 2020; and

WHEREAS having reviewed all current site plans, building plans, environmental plans and



reports, comments and reports from Town professional staff, the public, and other interested and involved agencies associated with the application before it; and having conducted a public hearing via video conference held in accordance with §195-39(B)(2) of the Yorktown Town Code on the said site plan application commencing and closing on March 8, 2021;

BE IT NOW RESOLVED that the application of Nantucket Sound Sons, LLC for the approval of a site plan titled "Site Plan," prepared by Site Design Consultants, dated March 14, 2020, and last revised August 25, 2020, be approved subject to the modifications and conditions listed below, and that the Chairman of this Board be and hereby is authorized to endorse this Board's approval of said plan upon compliance by the applicant with such modifications and requirements as noted below:

**Modify plans to show:**

- 1.  \_\_\_\_\_
- 2.  \_\_\_\_\_

**Additional requirements prior to signature by the Planning Board Chairman:**

- 1.  Submission of a Final Stormwater Pollution Prevention Plan acceptable to the Town Engineer and approved by the Planning Board.
- 2.  Submission of fees as per town requirements in the form of separate checks made payable to the Town of Yorktown:

Application Fee	\$4,080.00
ABACA Review	\$810.20
General Development	\$392.00

- 3.  Submission of inspection fees and security to the Engineering Department to the satisfaction of the Planning Board.

**Additional requirements:**

- 4.  Proposed plan must comply with all current applicable ADA standards.
- 5.  Prior to the issuance of a building permit, submission of all legal documents to effectuate the offers of cession, road dedications, easement, and other agreements set forth on the map or its notes, in form satisfactory to the Town Attorney.
- 6.  Applicant must obtain all necessary permits from outside agencies.



- 7.□ Upon completion of the project, the Applicant must submit an as-built survey, on paper and in digital AutoCAD DWG readable format, showing all improvements on the site.

BE IT NOW RESOLVED that in accordance with Chapter 248, the Planning Board finds the stormwater mitigation in this site plan to be compliant and to the Board's satisfaction; and

BE IT RESOLVED that in accordance with Chapter 270, the Planning Board finds the Tree mitigation in this site plan to be compliant and to the Board's satisfaction; and

BE IT FURTHER RESOLVED, that in accordance with Chapter 248 and Chapter 270, the application of Nantucket Sound Sons, LLC for the approval of Stormwater Pollution Prevention Plan and Tree Removal Permit **#FSWPP-T-000-00** is approved subject to the conditions listed therein; and

BE IT RESOLVED, Permit **#FSWPP-T-000-00** shall not be valid until it has been signed by the Chairman of this Board;

BE IT RESOLVED the Applicant will retain an independent third-party Environmental Systems Planner, a "Qualified Inspector" as defined by the New York State Department of Environmental Conservation in the SPDES General Permit for Stormwater Discharges from Construction Activity, to supervise and be present during the construction of the erosion control measures, and which Environmental Systems Planner will provide bi-weekly inspection reports regarding the status of erosion control measures to the approval authority via the Environmental Inspector and the Planning Department throughout construction; and

BE IT RESOLVED the Applicant must notify the Planning Board in writing stating the name of the Environmental Systems Planner or Firm that will be completing the bi-weekly inspection reports and shall notify the Planning Board in writing if this Planner or Firm changes; and

BE IT FURTHER RESOLVED that unless a building permit has been issued by \_\_\_\_\_, or a time extension has been granted by the Planning Board, this approval will be null and void.



**TOWN OF YORKTOWN - ENGINEERING DEPARTMENT  
MS4 STORMWATER MANAGEMENT PERMIT APPLICATION  
WETLAND PERMIT APPLICATION and/or TREE PERMIT APPLICATION**

Section 37.18  
Block 2  
Lot # 86

RECEIVED  
PLANNING DEPARTMENT  
MAR 6 2020  
TOWN OF YORKTOWN

Approval Authority: TE [ ] PB [ ] TB [ ]  
Application #: \_\_\_\_\_  
Date Received: \_\_\_\_\_  
Date Issued: \_\_\_\_\_  
Date Expires: \_\_\_\_\_  
Fee Paid: \$ \_\_\_\_\_

Job Site Address: \_\_\_\_\_  
City/State/Zip: Yorktown Heights  
NY 10598

NOTE: Application, Fee, Short/Long Form EAF, Map/Survey to be submitted to the Engineering

**APPLICANT:**  
YOUR NAME: Paul Guillaro/Patrick Murphy  
COMPANY: Nantucket Sound Sons Inc.  
ADDRESS: \_\_\_\_\_  
10 Julian Lane, Cold Spring, NY ZIP 10516  
PHONE: (845) 809-5969  
EMAIL: pguillaro@unicorncontracting.com

**OWNER:**  
YOUR NAME: Applicant  
COMPANY: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
ZIP \_\_\_\_\_  
PHONE: ( )  
EMAIL: \_\_\_\_\_

**APPROVED PLANS AND PERMIT SHALL BE ON-SITE AT ALL TIMES**

Select One	Type	Approval Authority	Cost
<input type="checkbox"/>	Wetland/Watercourse/Buffer Area Permit (Administrative)	Town Engineer	\$800.00
<input type="checkbox"/>	Wetland/Watercourse/Buffer Area Permit	Town Board/Planning Board	\$1,800.00
<input type="checkbox"/>	Renewal of Wetlands/Watercourse/Buffer Area Permit (1 Year)	Town Engineer	\$150.00
<input type="checkbox"/>	MS4 Stormwater Management Permit (Administrative)	Town Engineer	\$300.00
<input checked="" type="checkbox"/>	MS4 Stormwater Management Permit	Town Board/Planning Board	\$1,500.00
<input type="checkbox"/>	Renewal of a MS4 Stormwater Management Permit (1 Year)	Town Engineer	\$150.00
<input checked="" type="checkbox"/>	Tree Permit	Town Engineer	\$0.00

Application fees are doubled with issuance of a Stop Work Order as per Town Code.



**PROPOSED ACTIVITY - If not located in wetland/wetland buffer (skip to 2b)**

**1. Description of wetlands (check all that apply):**

- |                       |                          |                                    |                          |
|-----------------------|--------------------------|------------------------------------|--------------------------|
| a. Lake/pond          | <input type="checkbox"/> | Control area of lake/pond          | <input type="checkbox"/> |
| b. Stream/River/Brook | <input type="checkbox"/> | Control area of stream/river/brook | <input type="checkbox"/> |
| c. Wetlands           | <input type="checkbox"/> | Control area of wetlands           | <input type="checkbox"/> |

**2a. Description of activity in the wetland and/or wetland buffer. Describe the proposed work including the following: i.e. maintenance, construction of dwelling, addition, driveway, culverts, including size and location.**

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**2b. Stormwater/Excavation - Description of proposed activity:**

Construction of a 3-story building which has a 2,800 SF footprint and associated parking. Excavation will exceed 200 CY.

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**3. Tree Removal: To be Determined**

Amount of trees and/or stumps to be removed: \_\_\_\_\_

Sizes; approximate DBH: \_\_\_\_\_

Species of trees to be removed (i.e. Birch, Spruce - if known): \_\_\_\_\_

Reason for removal: \_\_\_\_\_

Trees marked in field (trees must be marked prior to inspection): Yes:  No:

Tree removal contractor: \_\_\_\_\_

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Attach survey/sketch indicating property boundaries, existing structures, driveways, roadways and location of existing trees. Trees must be marked in the field before inspection.

**4. PROPERTY OWNER CONSENT: If another entity (e.g. contractor, consultant) is applying on the owner's behalf, the PROPERTY OWNER is to complete, sign and date this authorization:**

I, \_\_\_\_\_ hereby authorize \_\_\_\_\_ to apply for this Stormwater/Wetland Permit/Tree Permit on my behalf.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

No application will be processed without the above-mentioned, required information.



**GENERAL CONDITIONS**

1. The permittee is responsible for maintaining an active application. If no activity occurs within a six (6) month period, as measured from the date of application, the application will become null and void. Applications fees are non-refundable.
2. The Town of Yorktown reserves the right to modify, suspend or revoke this permit at any time after due notice when:
  - a. Scope of the project is exceeded or a violation of any condition of the permit or provision of the law pertinent regulations are found; or
  - b. Permit was obtained by misrepresentation or failure to disclose relevant facts; or
  - c. Newly discovered information or significant physical changes are discovered.
3. The permittee is responsible for keeping the permit active by requesting renewal from the Approval Authority. Any supplemental information that may be required by the Approval Authority, including forms and fees, must be submitted 30 days prior to the expiration date. The expiration date is one year from the date the bond is paid to the Engineering Department. In accordance with Chapter 178 of the Town Code, Freshwater Wetlands, Section 178-16 -Expiration of a Permit.
4. This permit shall not be construed as conveying to the applicant any right to trespass upon private lands or interfere with the riparian rights of others in order to perform the permitted work or as authorizing the impairment of any right, title or interest in real or personal property held or vested in person not party to this permit.
5. The permittee is responsible for obtaining any other permits, approvals, easements and right-of-way, which may be required.
6. Any modification of this permit granted by the Approval Authority must be in writing and attached hereto.
7. Granting of this permit does not relieve the applicant of the responsibility of obtaining any other permission, consent or approval from the U.S. Army Corps of Engineers, N.Y.C. Department of Environmental Protection, N.Y.S. Department of Environmental Conservation or local government, which may be required.

Patrick J. Murphy

\_\_\_\_\_  
PRINT NAME



\_\_\_\_\_  
SIGNATURE OF APPLICANT

3/6/20

\_\_\_\_\_  
DATE



Michael Quinn, P.E.  
Town Engineer

Michael Grace  
Town Supervisor

**TOWN OF YORKTOWN  
ENGINEERING DEPARTMENT**

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Town of Yorktown Town Hall, 363 Underhill Avenue, Yorktown Heights, New York 10598

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**CERTIFICATION OF PROJECT COMPLETION**

Date: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

Permit Number(s): \_\_\_\_\_

Check/Bond # & Amount  
(If Applicable) \_\_\_\_\_

Street Name(s) To Be Dedicated  
(If Applicable) \_\_\_\_\_

**The undersigned hereby certifies that the work for the above referenced project has been completed in accordance with the terms and conditions of the Town approval resolution and/or the Town permit terms and conditions.**

Owner, Engineer or Authorized Representative:

(signed) \_\_\_\_\_

Printed Name:

Title:

Company:

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Yorktown Engineering Department

Date Received: \_\_\_\_\_

Date Accepted: \_\_\_\_\_

Disposition: \_\_\_\_\_



FEB 10 2020

TOWN OF YORKTOWN

617.20  
Appendix B  
Short Environmental Assessment Form

**Instructions for Completing**

**Part 1 - Project Information.** The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

<b>Part 1 - Project and Sponsor Information</b>			
Nantucket Sound, LLC			
Name of Action or Project: Nantucket Sound, LLC			
Project Location (describe, and attach a location map): Kear Street and Route 118, Yorktown Heights, NY			
Brief Description of Proposed Action:  The property owner is proposing an approximate three story commercial/residential building to accommodate 2,567 SF retail and six residential apartment units providing the required parking, driveway, and stormwater management. The project is located in a C2-R zone and consists of 0.363 acres. The building will be serviced by Town water and sewer.			
Name of Applicant or Sponsor: Joseph C. Riina, P.E., Site Design Consultants		Telephone: 914-962-4488	
		E-Mail: jriina@sitedesignconsultants.com	
Address: 251-F Underhill Avenue			
City/PO: Yorktown Heights		State: NY	Zip Code: 10598
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
3.a. Total acreage of the site of the proposed action?		0.363 acres	
b. Total acreage to be physically disturbed?		0.363 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		0.363 acres	
4. Check all land uses that occur on, adjoining and near the proposed action.			
<input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Parkland			







18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</b>		
Applicant/sponsor name: <u>Joseph C. Riina</u>		Date: <u>2-10-20</u>
Signature: _____		

**Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2.** Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>
2. Will the proposed action result in a change in the use or intensity of use of land?	<input type="checkbox"/>	<input type="checkbox"/>
3. Will the proposed action impair the character or quality of the existing community?	<input type="checkbox"/>	<input type="checkbox"/>
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	<input type="checkbox"/>	<input type="checkbox"/>
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will the proposed action impact existing:	<input type="checkbox"/>	<input type="checkbox"/>
a. public / private water supplies?	<input type="checkbox"/>	<input type="checkbox"/>
b. public / private wastewater treatment utilities?	<input type="checkbox"/>	<input type="checkbox"/>
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	<input type="checkbox"/>	<input type="checkbox"/>
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	<input type="checkbox"/>	<input type="checkbox"/>



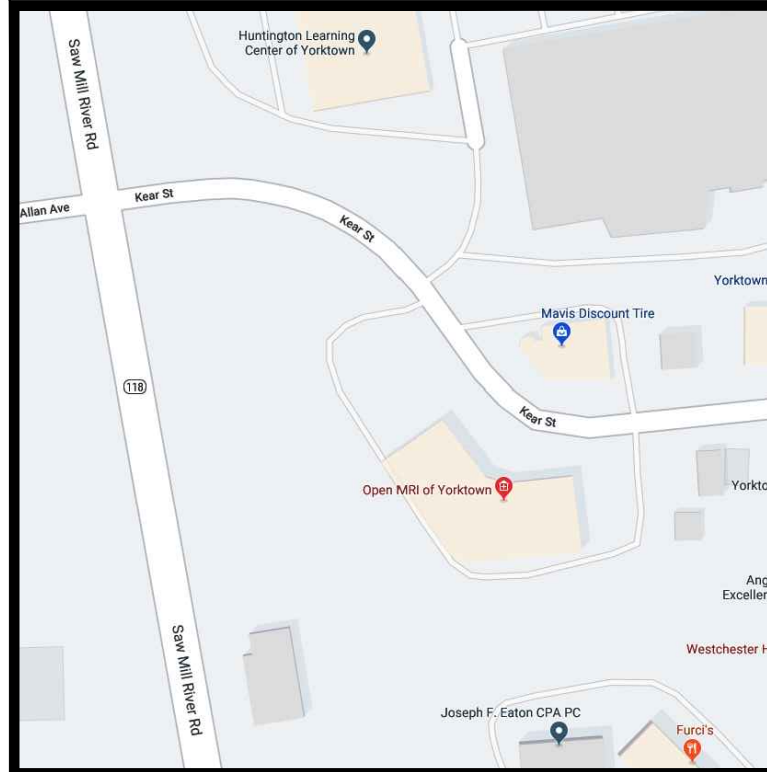
	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	<input type="checkbox"/>	<input type="checkbox"/>
11. Will the proposed action create a hazard to environmental resources or human health?	<input type="checkbox"/>	<input type="checkbox"/>

**Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3.** For every question in Part 2 that was answered “moderate to large impact may occur”, or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

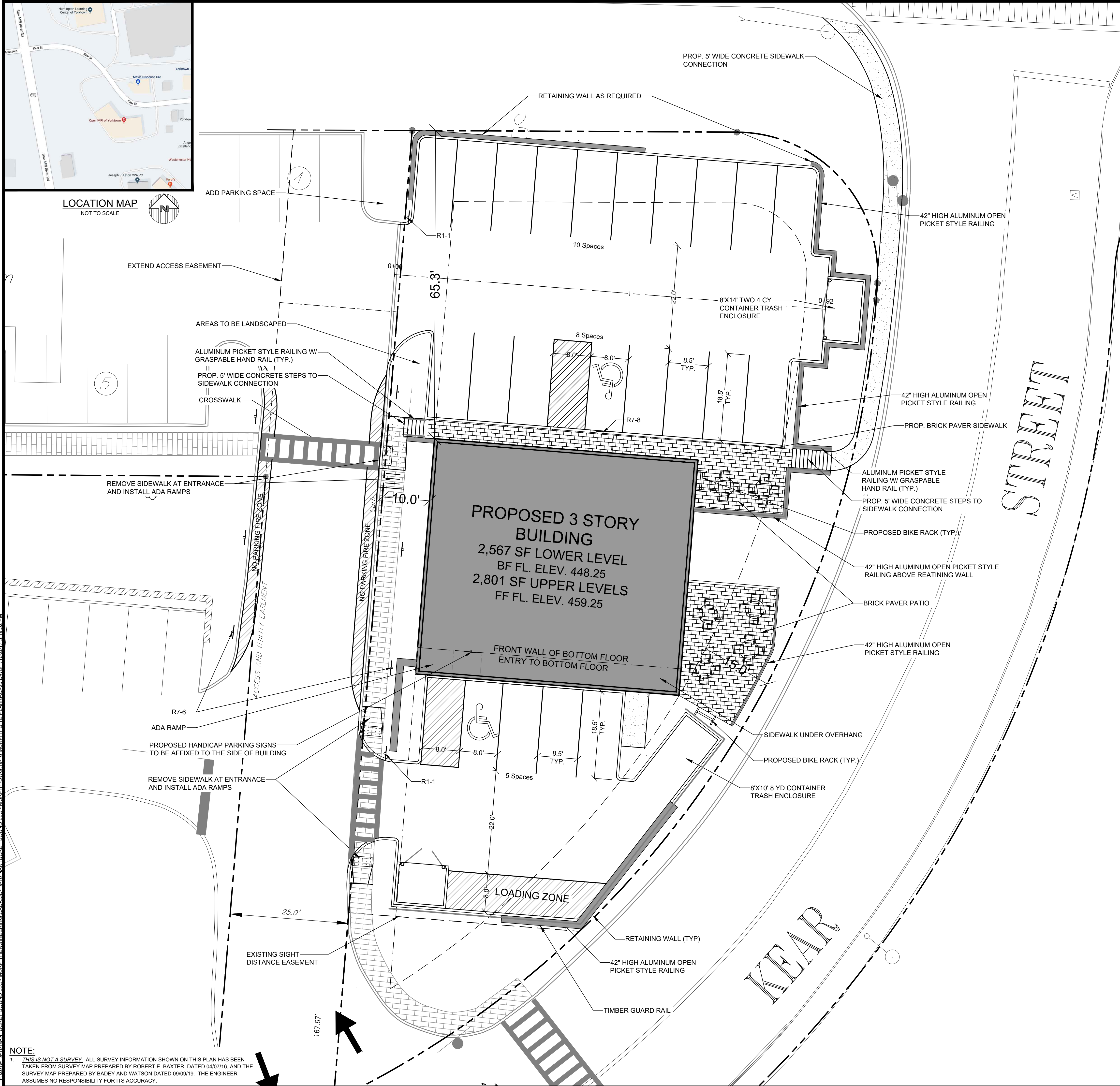
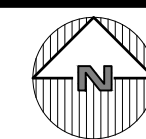
<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.
<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.
_____	_____
Name of Lead Agency	Date
_____	_____
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
_____	_____
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

**PRINT**





LOCATION MAP  
NOT TO SCALE



**SITE DATA:**

OWNER / DEVELOPER: NANTUCKET SOUND SONS, LLC.  
1672 MORNINGVIEW DRIVE  
YORKTOWN, NY, 10598

PROJECT LOCATION: KEAR STREET  
TOWN OF YORKTOWN

EXISTING TOWN ZONING: C2-R  
PROPOSED USE: C2-R

TOWN TAX MAP DATA: SECTION 37.12, BLOCK 2, LOT 86

SITE AREA: 0.36 ACRES (15,807 SF)

SEWAGE FACILITIES: PUBLIC SEWERS

WATER FACILITIES: PUBLIC WATER FACILITIES

**ZONING SCHEDULE:**

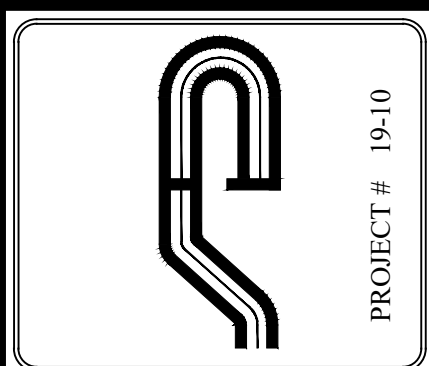
ZONING DISTRICT: C-2R, COMMERCIAL HAMLET CENTER DISTRICT			
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED	VARIANCE REQUIRED
MINIMUM SIZE OF LOT:			
MINIMUM LOT AREA:	NONE	15,807 S.F.	NONE
MINIMUM LOT WIDTH:	NONE	60 FT.	NONE
MINIMUM YARD DIMENSIONS:			
PRINCIPAL BUILDING:			
FRONT YARD SETBACK:	*15 FT.	15 FT.	NONE
REAR YARD SETBACK:	30 FT.	N/A	NONE
ONE SIDE YARD SETBACK:	**0 FT.	10 FT.	NONE
COMBINED SIDE YARD SETBACK:	NONE	N/A	NONE
ACCESSORY BUILDINGS:			
FRONT YARD SETBACK:	50 FT.	NONE	NONE
REAR YARD SETBACK:	30 FT.	NONE	NONE
ONE SIDE YARD SETBACK:	NONE	NONE	NONE
COMBINED SIDE YARD SETBACK:	NONE	NONE	NONE
MAXIMUM % OF LOT TO BE OCCUPIED:			
PRINCIPAL BUILDING COVERAGE:	30% OF LOT AREA	17.72 % OF LOT AREA	NONE
ACCESSORY BUILDING COVERAGE:	30% OF LOT AREA	N/A	NONE
MAXIMUM HEIGHT:			
PRINCIPAL BUILDING - FEET:	35 FEET	34 FT.	NONE
ACCESSORY BUILDING - FEET:	20 FEET	NONE	NONE
ACCESSORY BUILDING - STORIES:	2 1/2	NONE	NONE

**NOTE:**

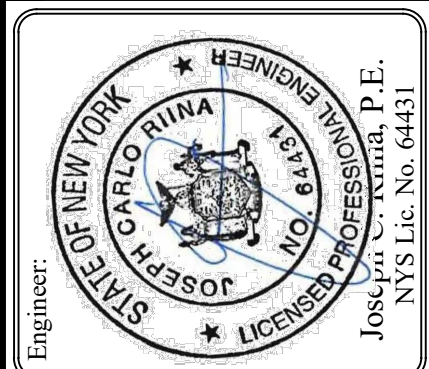
1. PARKING PLAN APPROVAL REQUIRED IN ACCORDANCE WITH §§ 300-179 THROUGH 300-182 AND 300-183 THROUGH 300-186. SEPARATE STRUCTURES LESS THAN 500 SQUARE FEET SHALL NOT BE PERMITTED.  
\*FRONT YARD SETBACK IS 75 FEET WITH PARKING.  
\*\*NONE, BUT IF PROVIDED SHALL BE 10 FEET; IF USED AS ONE-WAY VEHICULAR ACCESS, SHALL BE 17 FEET; TWO-WAY VEHICULAR ACCESS, 25 FEET; IF ADJOINS AN R DISTRICT, SHALL BE 50 FEET.

**PARKING SCHEDULE**

REQUIRED PARKING BUSINESS:	4 SPACES PER 1000 SF OF BUILDING
RESIDENTIAL:	2.2 SPACES PER RESIDENTIAL UNIT
BUSINESS BUILDING:	2,567 S.F. @ 4 SPACES/1000 S.F. = 10 SPACES
RESIDENTIAL BUILDING:	6 UNITS @ 2.2 SPACES/1 UNIT = 13 SPACES
TOTAL REQUIRED:	23 SPACES
PROVIDED PARKING:	21 STANDARD 2 HANDICAP
TOTAL PROVIDED PARKING:	23 SPACES
PARKING VARIANCE REQUIRED:	NONE



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Revisions:	No.	Date	Comments
	1	6/17/20	Plan Revisions
	2	8/25/20	Town Comments

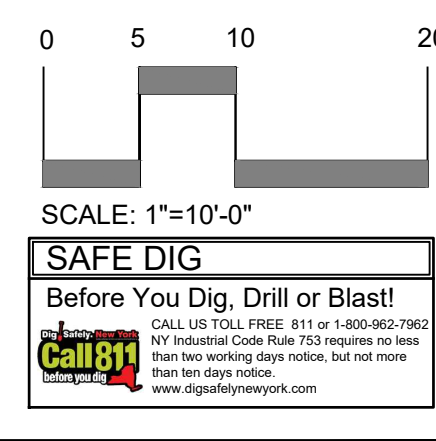
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**SITE PLAN**

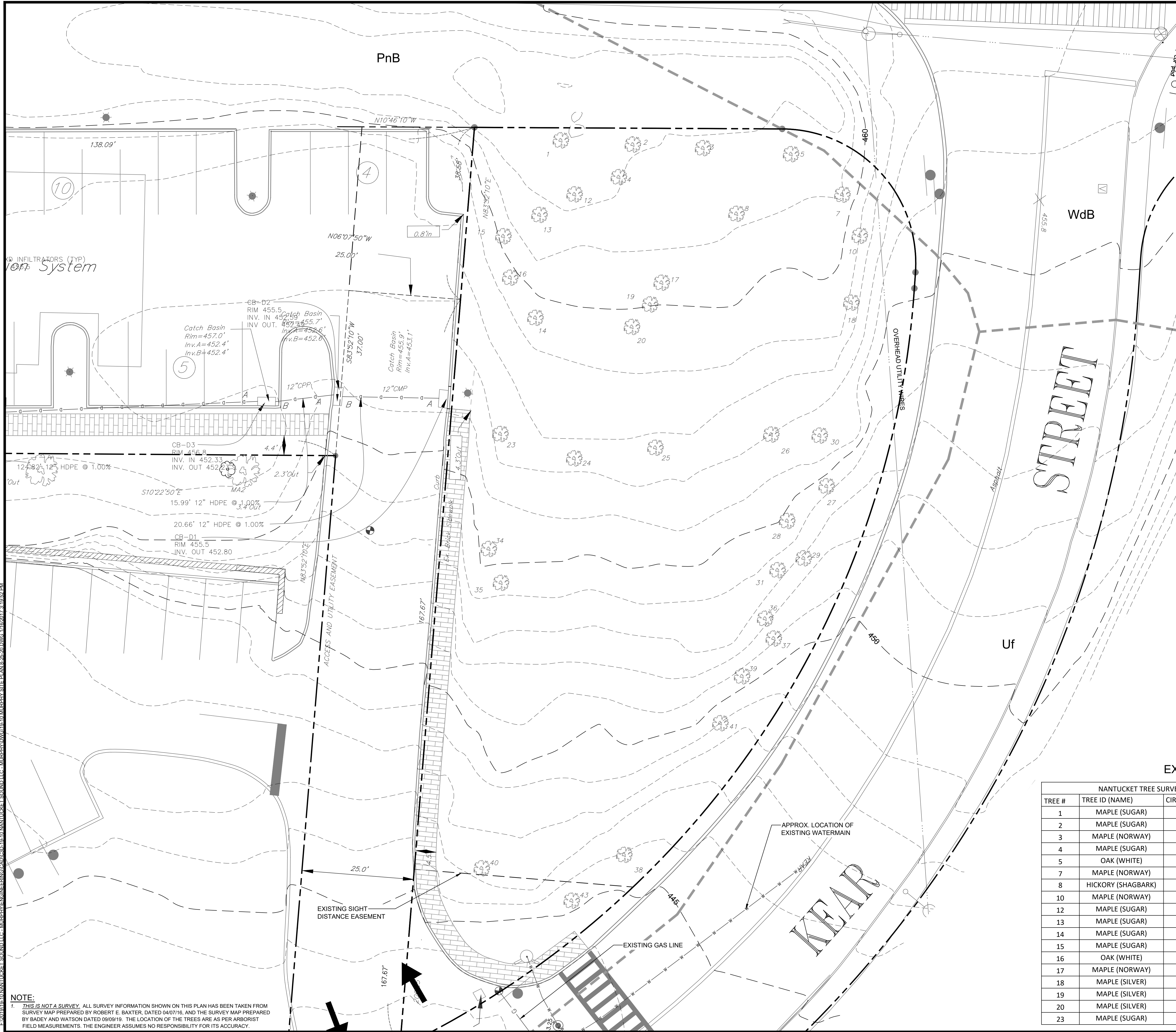
SITE PLAN PREPARED FOR  
**NANTUCKET SOUND SONS, LLC.**  
KEAR STREET  
Town of Yorktown  
Westchester County, NY

**NOTE:**  
1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY ROBERT E. BAXTER, DATED 04/07/16, AND THE SURVEY MAP PREPARED BY BADEY AND WATSON DATED 09/09/19. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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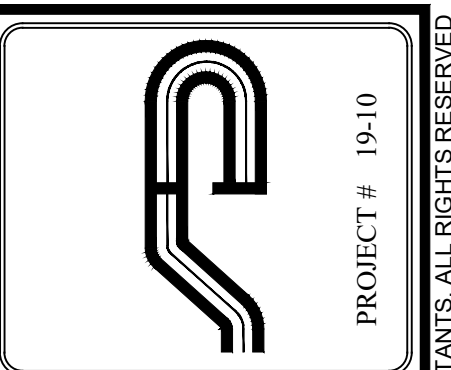


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EXISTING TREE LIST

NANTUCKET TREE SURVEY				NANTUCKET TREE SURVEY			
TREE #	TREE ID (NAME)	CIR. (")	DIA. (")	TREE #	TREE ID (NAME)	CIR. (")	DIA. (")
1	MAPLE (SUGAR)	44	14.01	24	MAPLE (SILVER)	51	16.24
2	MAPLE (SUGAR)	38	12.1	25	MAPLE (SUGAR)	42	13.38
3	MAPLE (NORWAY)	36	11.46	26	MAPLE (SUGAR)	60	19.11
4	MAPLE (SUGAR)	28	8.92	27	MAPLE (SILVER)	30	9.55
5	OAK (WHITE)	118	37.58	28	BLACK BIRCH	39	12.42
7	MAPLE (NORWAY)	66	21.02	29	CHERRY (BIRCH)	27	8.6
8	HICKORY (SHAGBARK)	30	9.55	30	LOCUST (BLACK)	61	19.43
10	MAPLE (NORWAY)	27	8.6	31	MAPLE (SUGAR)	44	14.01
12	MAPLE (SUGAR)	28	8.92	34	LOCUST (BLACK)	63	20.06
13	MAPLE (SUGAR)	27	8.6	35	MAPLE (SUGAR)	67	21.34
14	MAPLE (SUGAR)	32	10.19	36	MAPLE (SUGAR)	69	21.97
15	MAPLE (SUGAR)	44	14.01	37	MAPLE (SILVER)	32	10.19
16	OAK (WHITE)	46	14.65	38	MAPLE (SUGAR)	60	19.11
17	MAPLE (NORWAY)	26	8.28	39	MAPLE (SUGAR)	34	10.83
18	MAPLE (SILVER)	79	25.16	40	BEECH (AMERICAN)	52	16.56
19	MAPLE (SILVER)	31	9.87	41	MAPLE (SUGAR)	59	18.79
20	MAPLE (SILVER)	33	10.51	43	OAK (WHITE)	58	18.47
23	MAPLE (SUGAR)	36	11.46				



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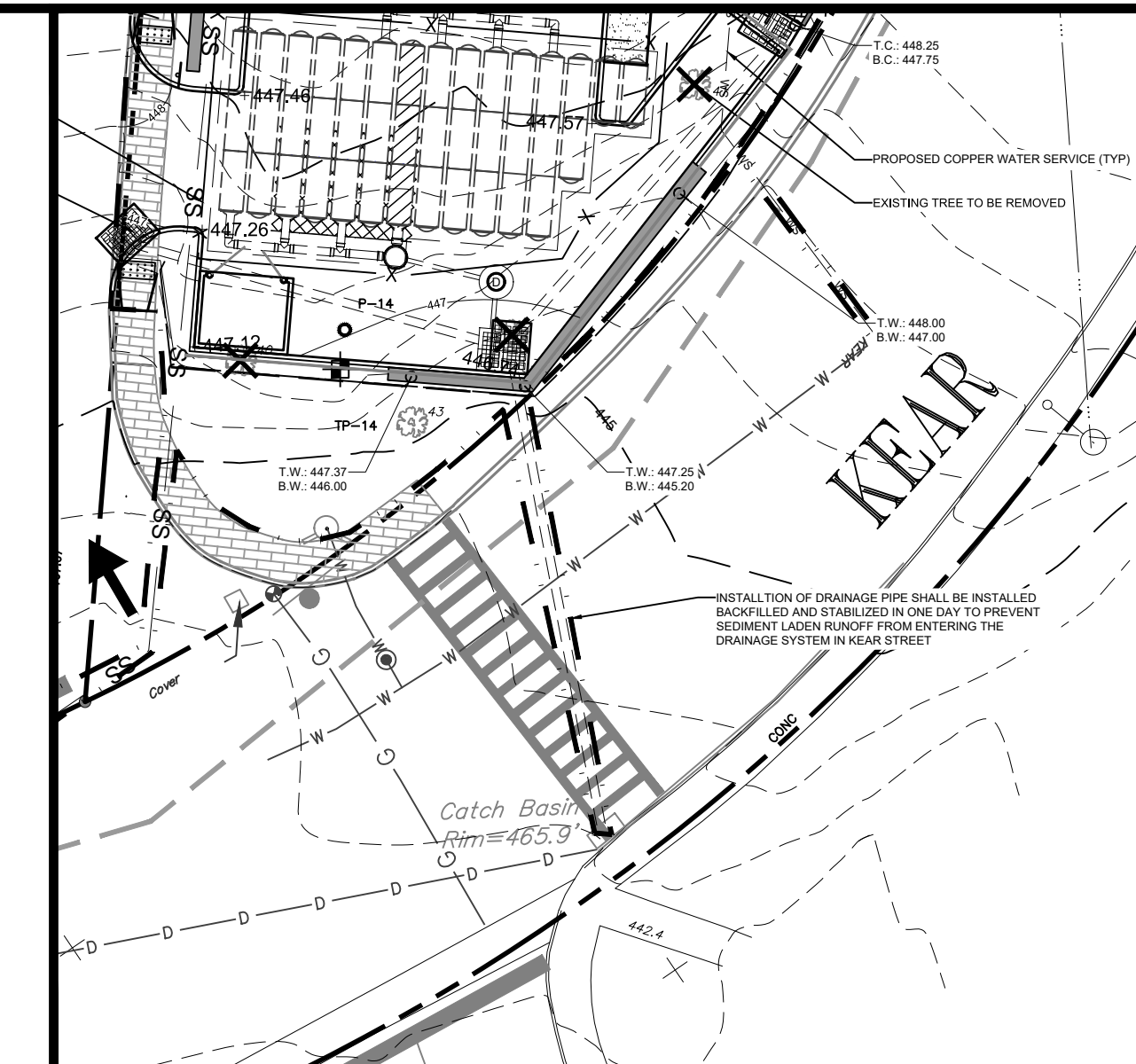
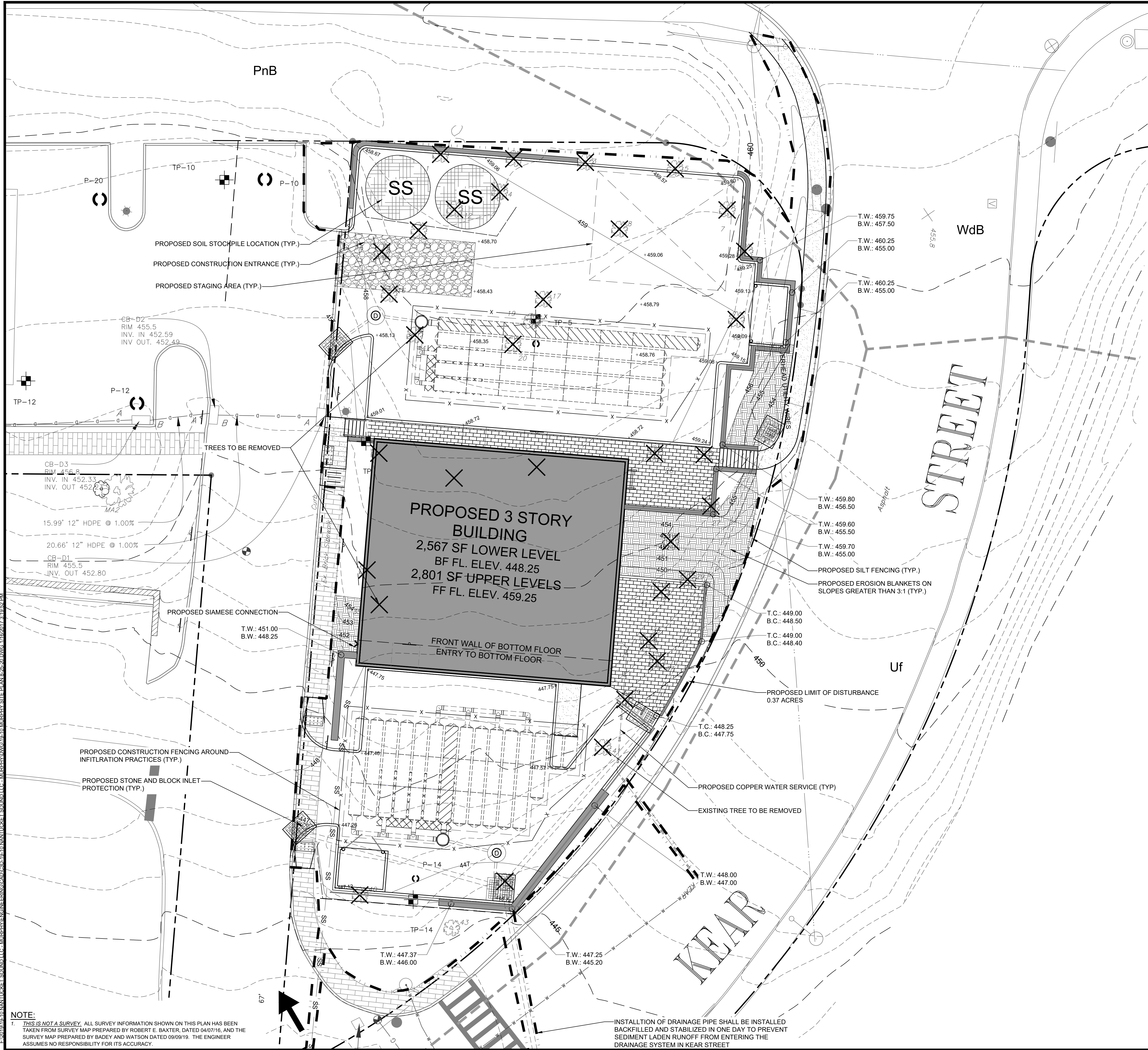
Revisions:	No.	Date	Comments
	1	6/17/20	Plan Revisions
	2	8/25/20	Final Comments

SCALE: 1" = 10'  
 DRAWN BY: TK  
 DATE: 3/14/20

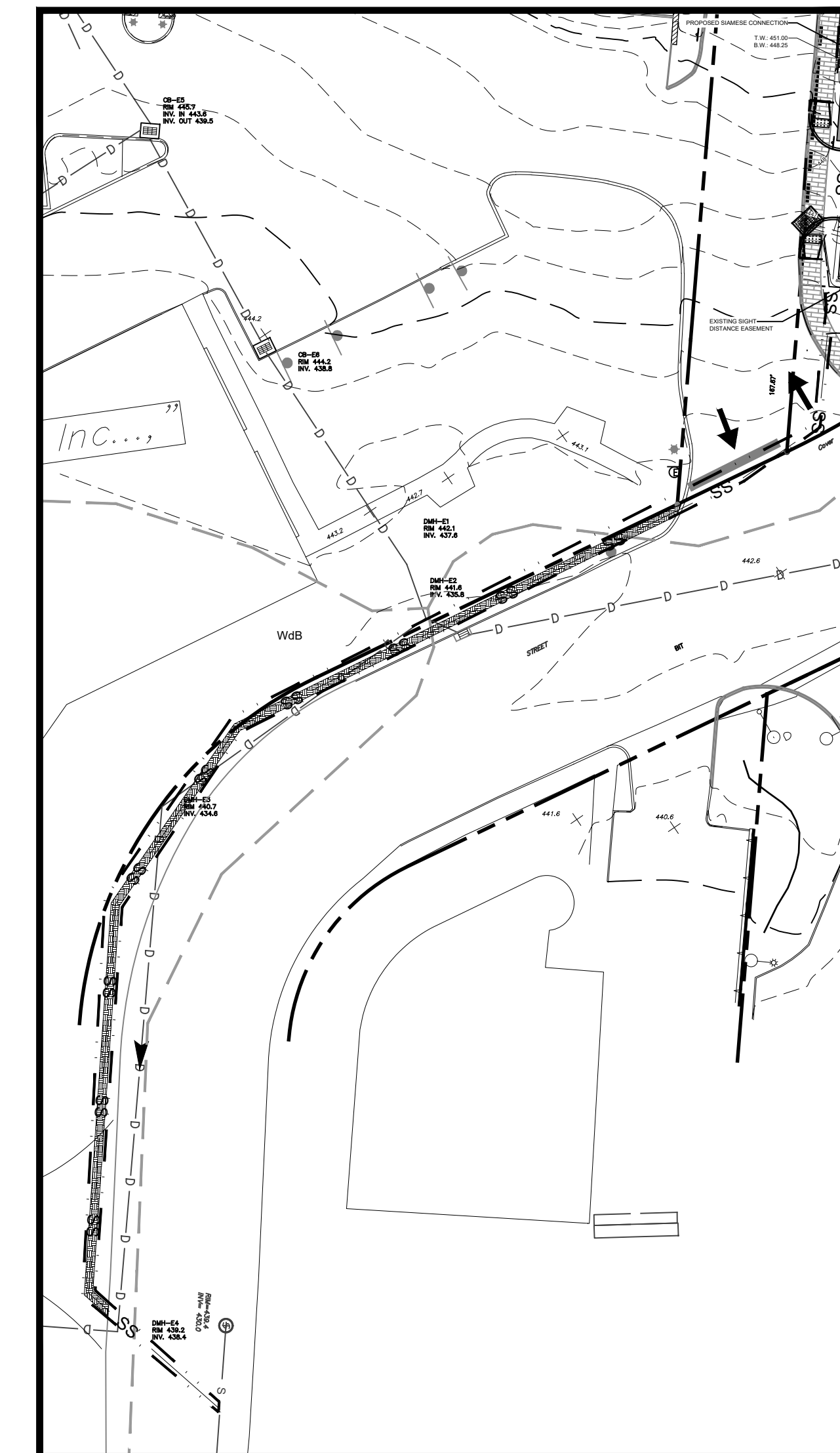
**EXISTING CONDITIONS**

SITE PLAN PREPARED FOR  
**NANTUCKET SOUND SONS, LLC.**  
 KEAR STREET  
 Town of Yorktown  
 Westchester County, NY





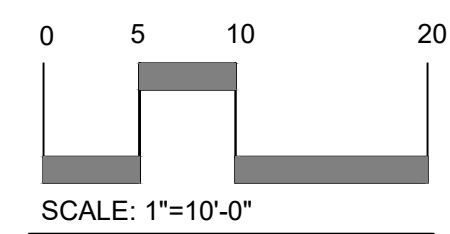
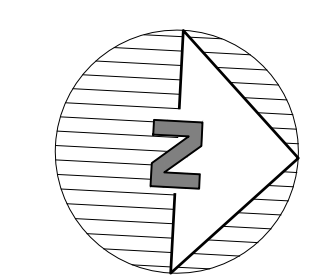
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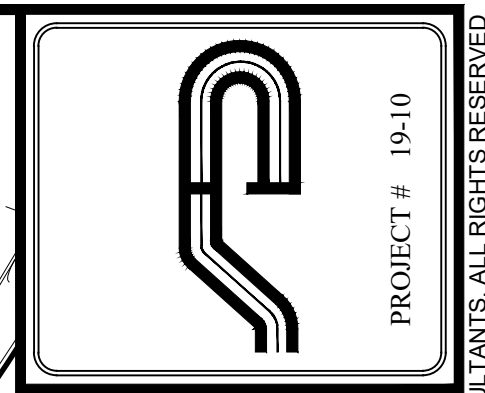
INSET 2  
SCALE 1" = 30'

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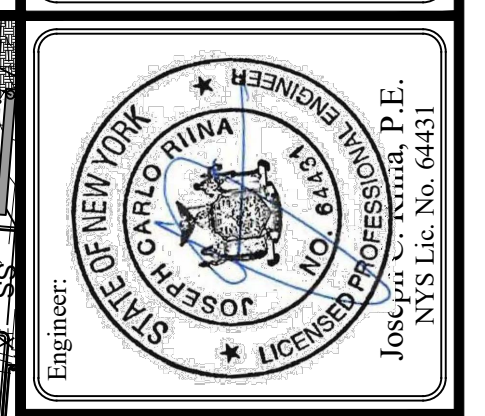
INSTALLATION OF DRAINAGE PIPE SHALL BE INSTALLED BACKFILLED AND STABILIZED IN ONE DAY TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE DRAINAGE SYSTEM IN KEAR STREET



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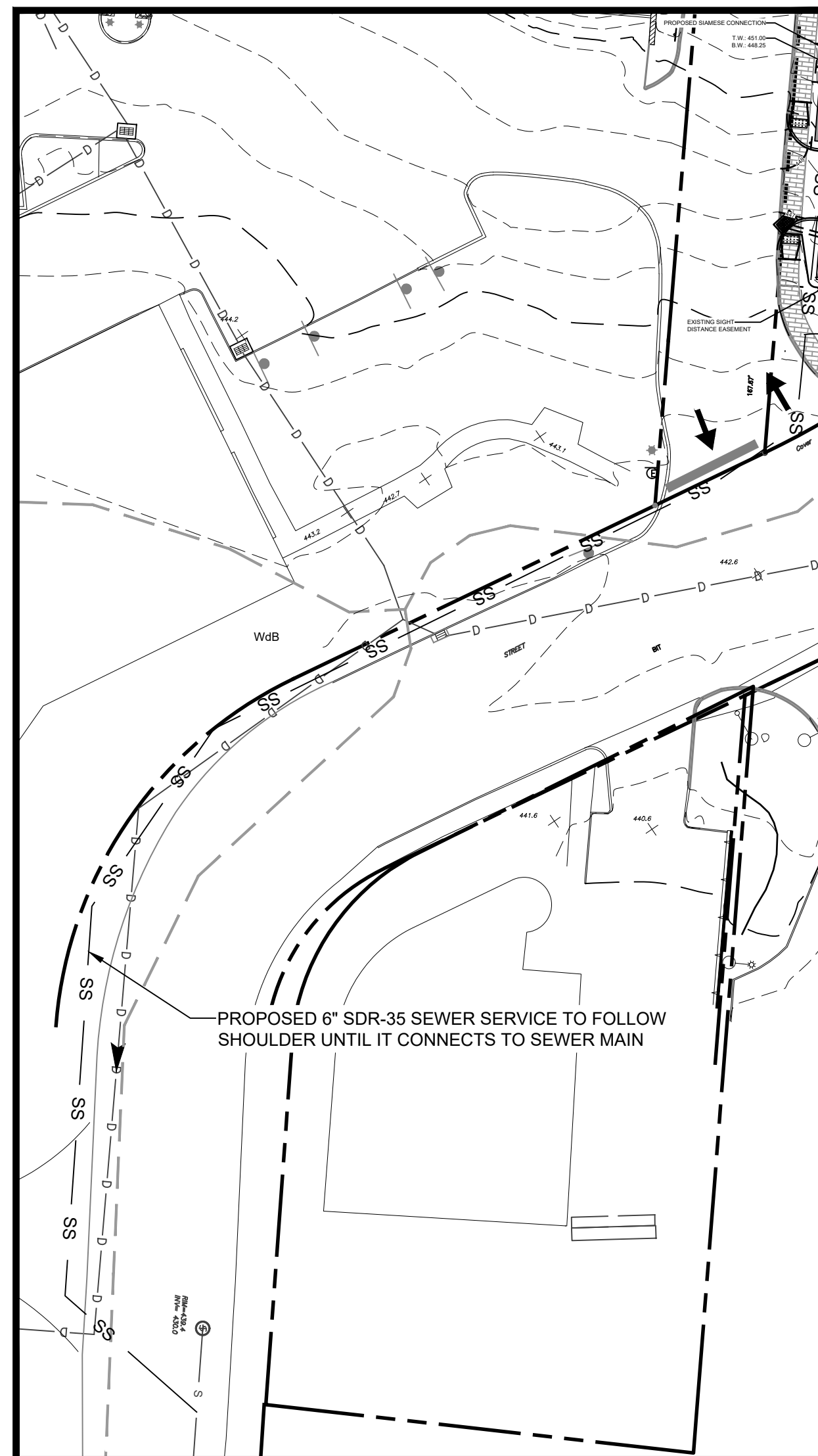
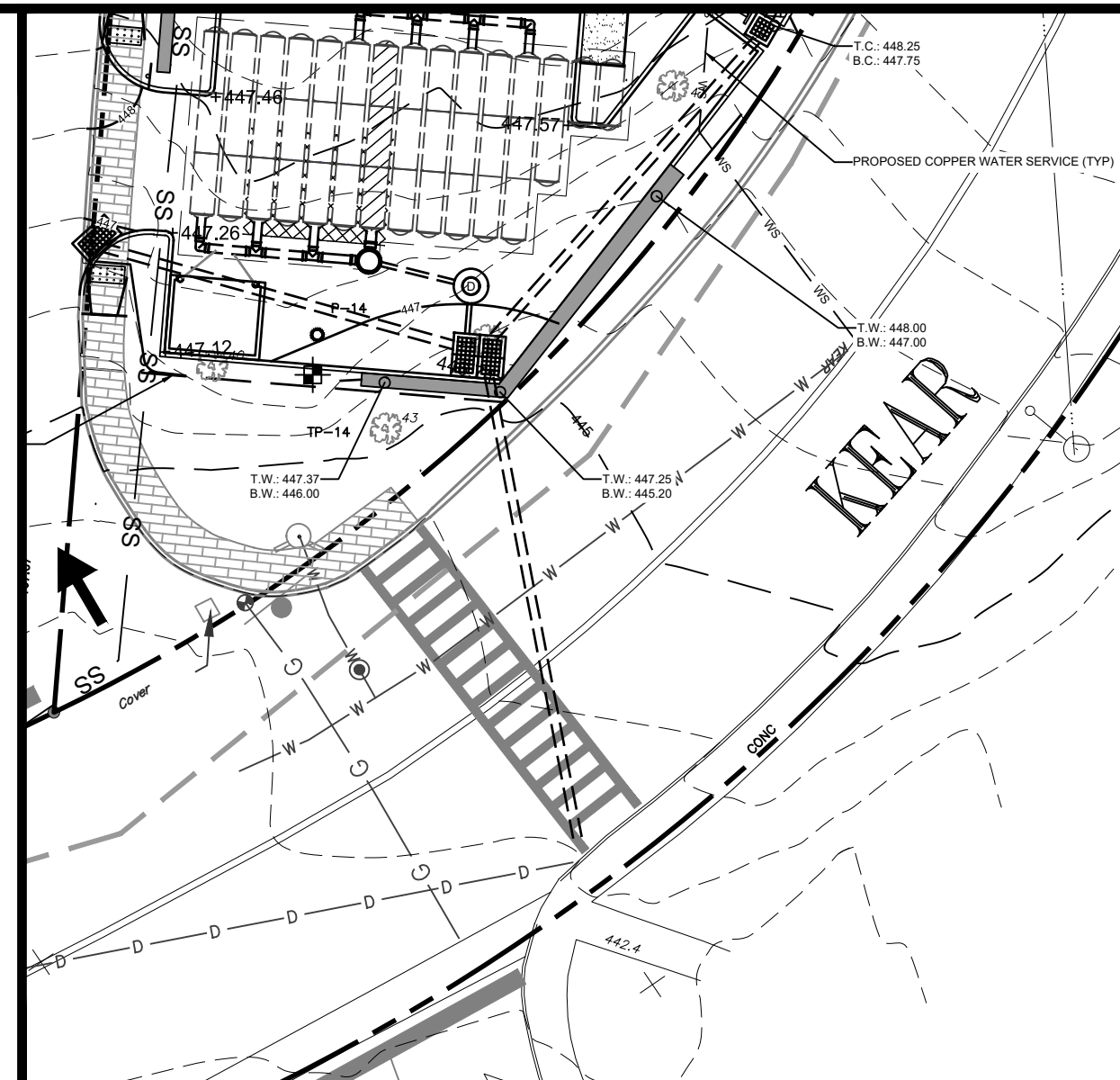
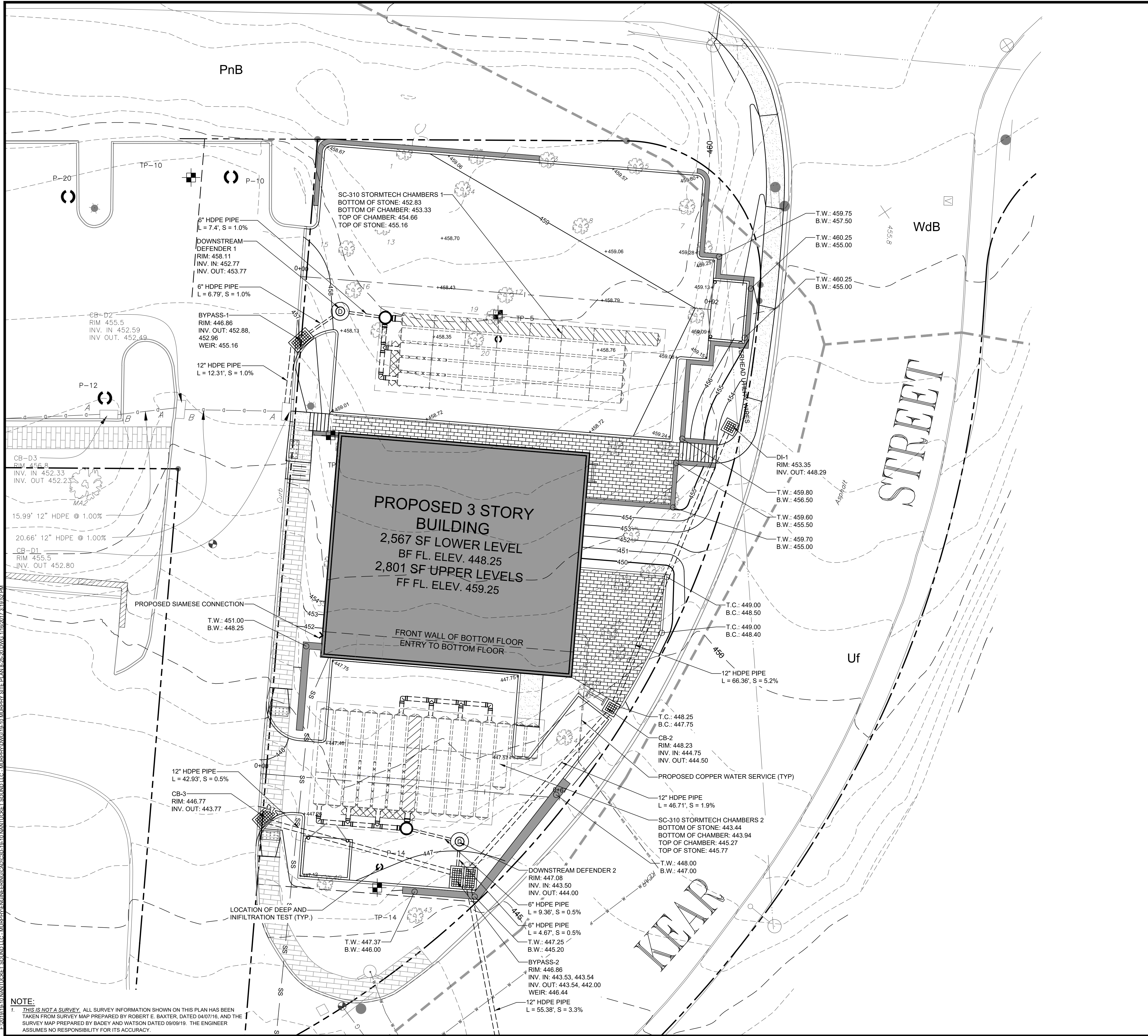
Revisions:	No.	Date	Comments
	1	6/17/20	Plan Revisions
	2	8/25/20	Town Comments

SCALE:	1" = 10'
DRAWN BY:	TK
DATE:	3/14/20

**E&S PLAN**

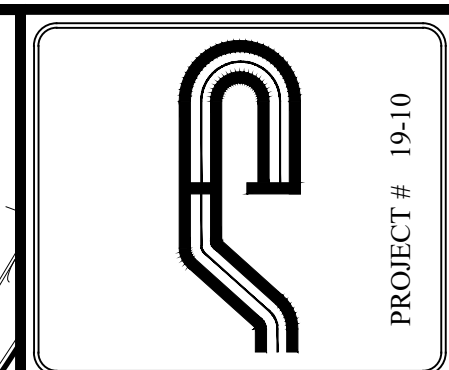
SITE PLAN PREPARED FOR  
**NANTUCKET SOUND SONS, LLC.**  
KEAR STREET  
Town of Yorktown Westchester County, NY



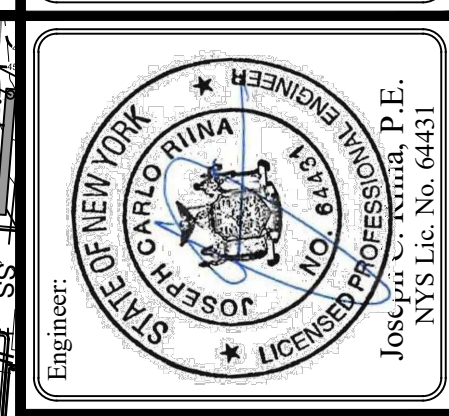


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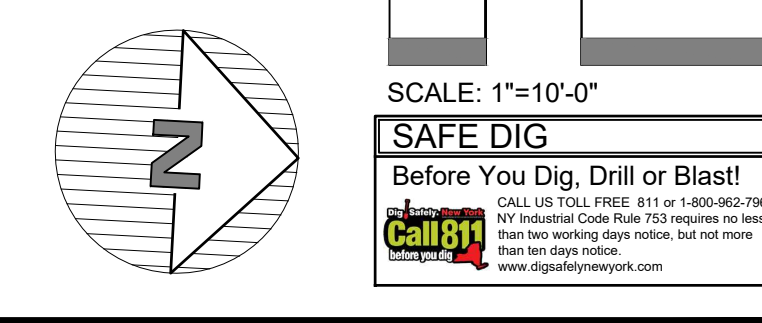


Revisions:	No.	Date	Comments
	1	6/17/20	Plan Revisions
	2	8/25/20	Town Comments

SCALE: 1" = 30'  
 DRAWN BY: TK  
 DATE: 3/14/20

**IMPROVEMENT PLAN**

SITE PLAN PREPARED FOR  
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 KEAR STREET  
 Westchester County, NY



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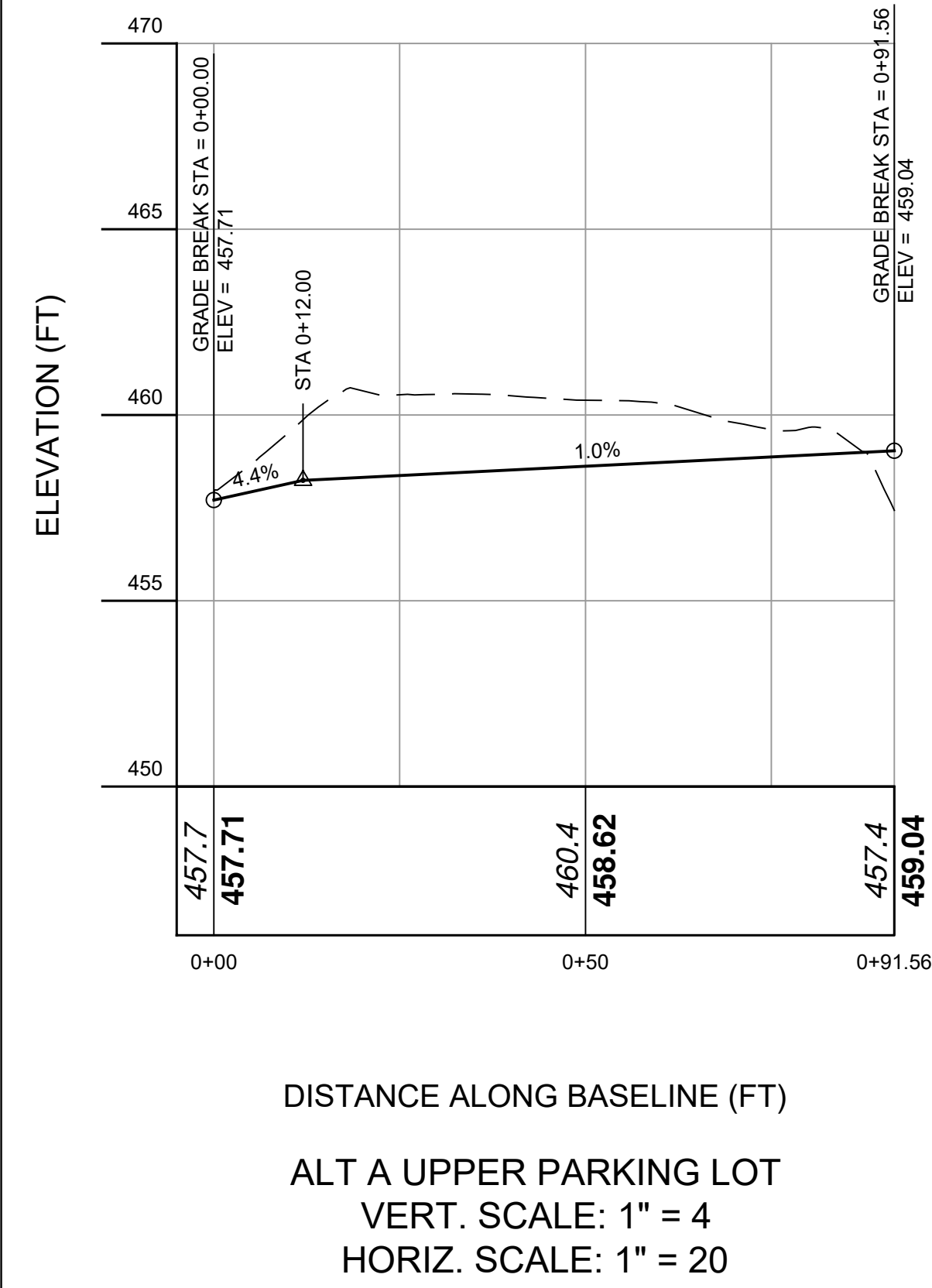
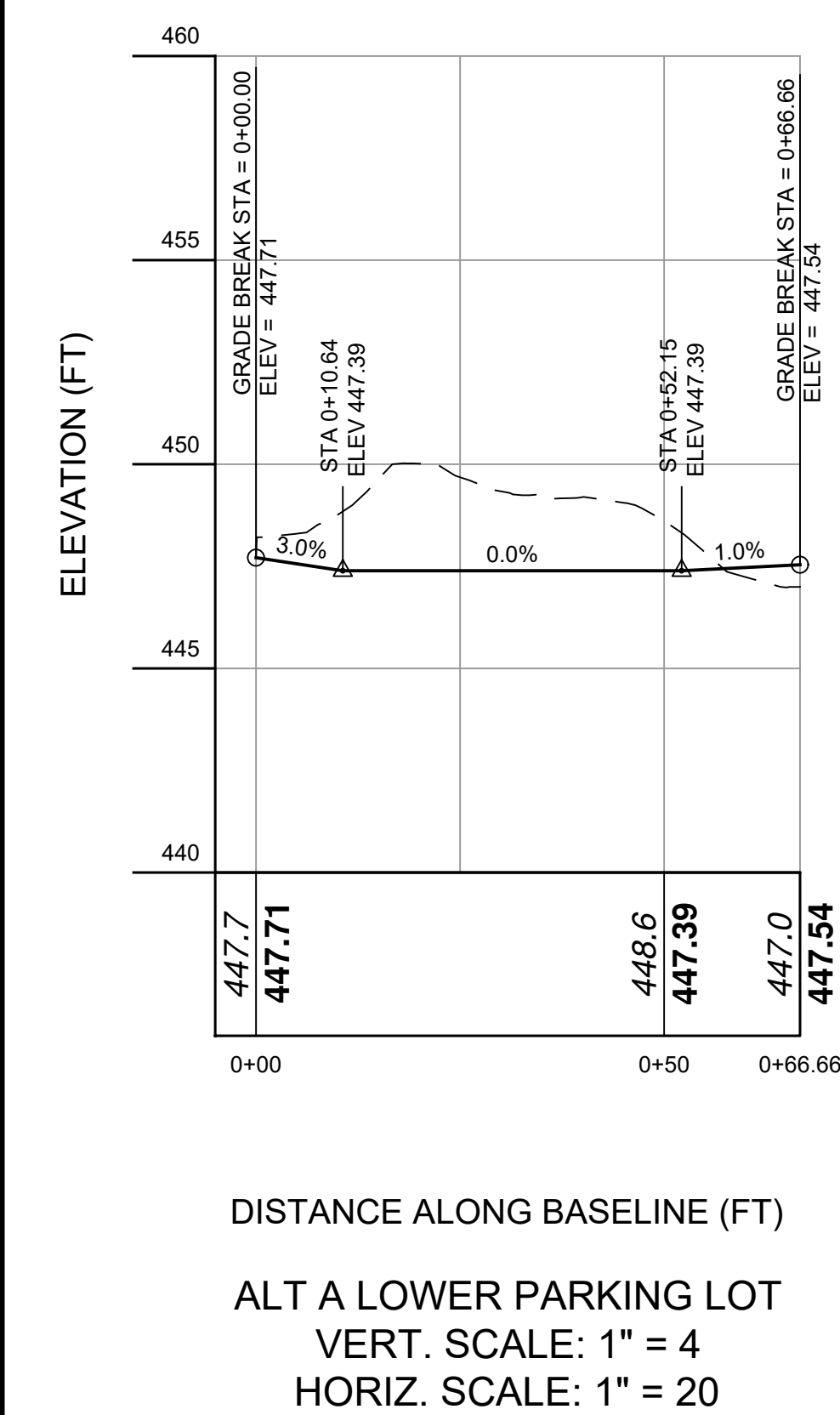
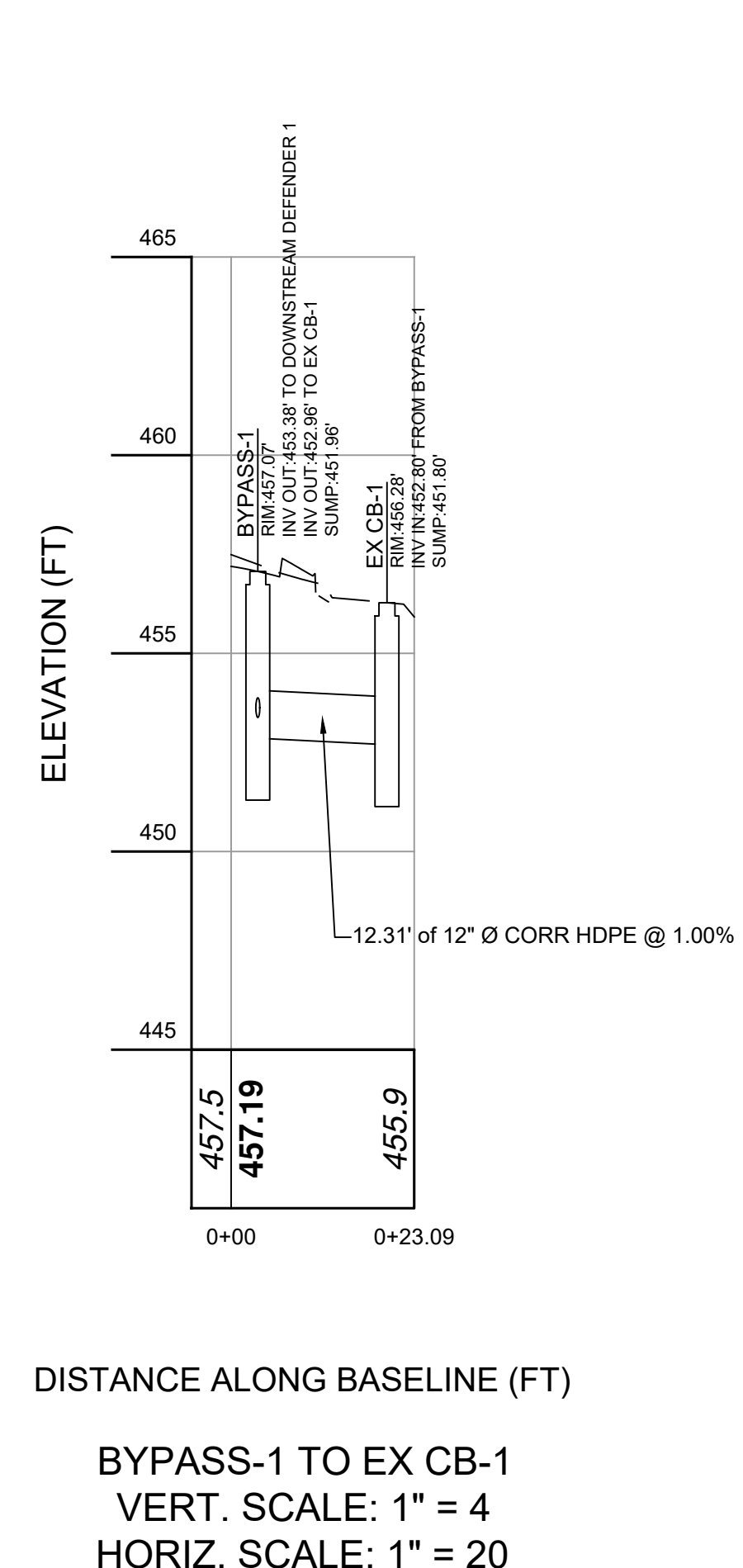
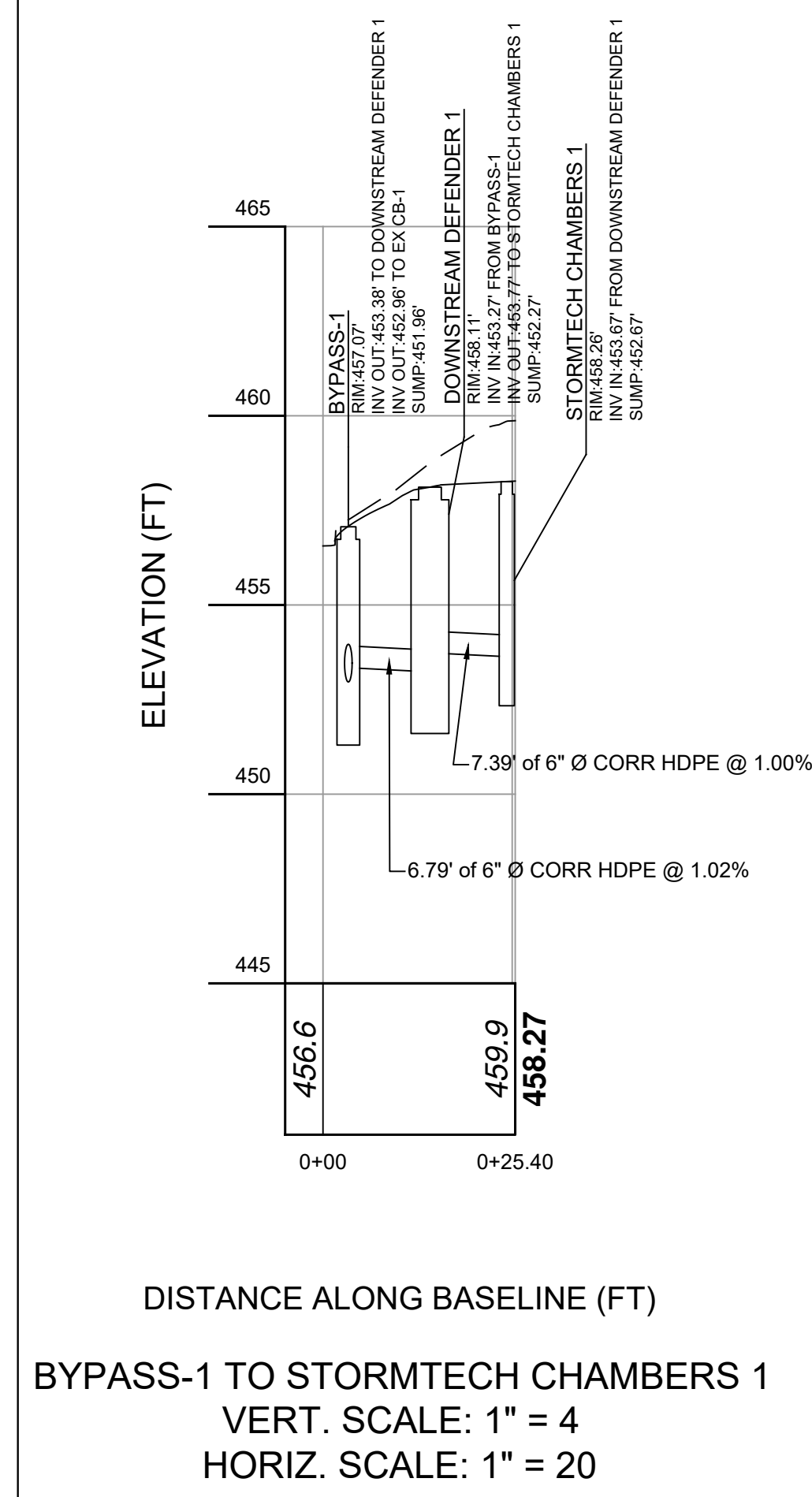
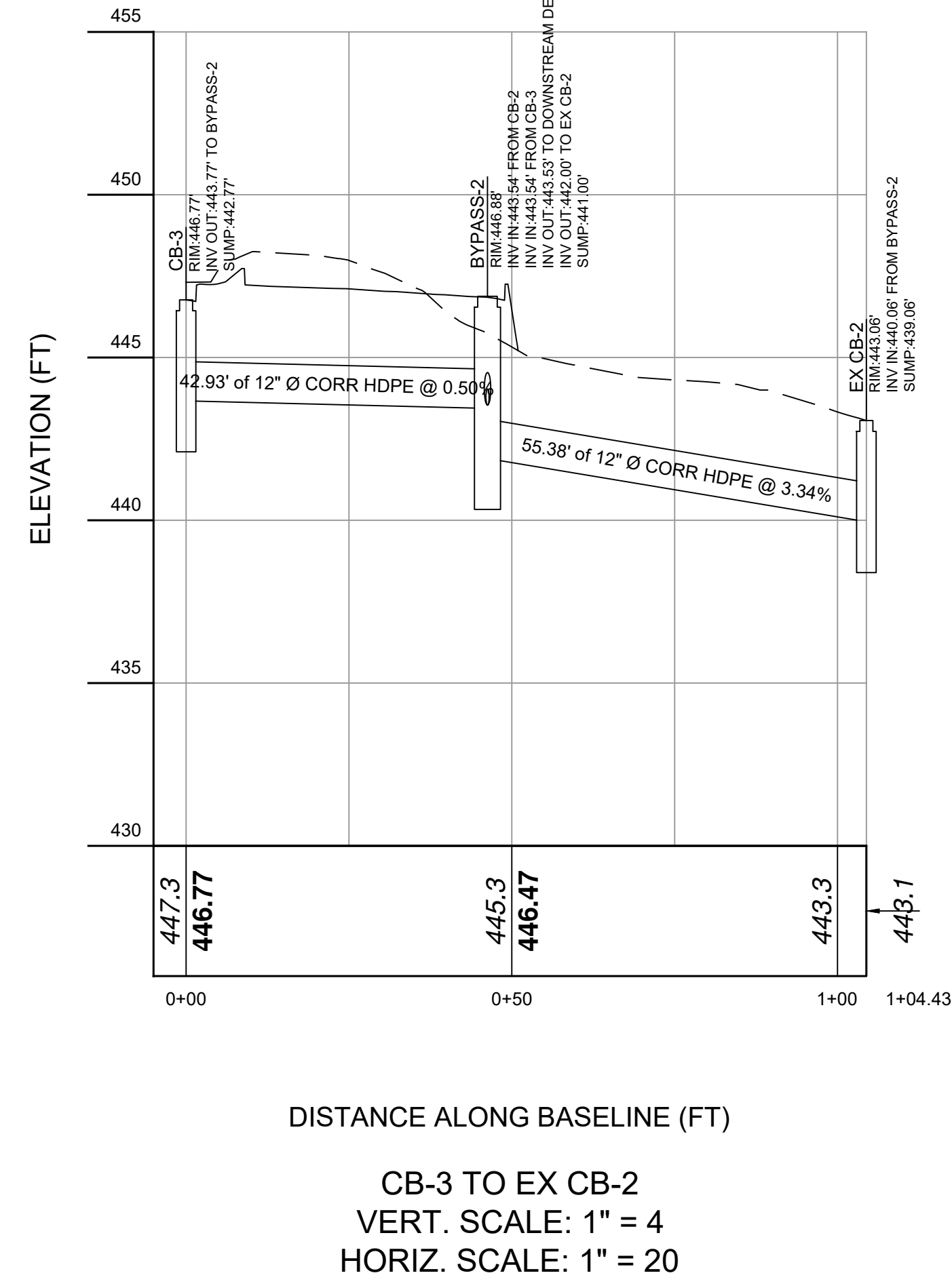
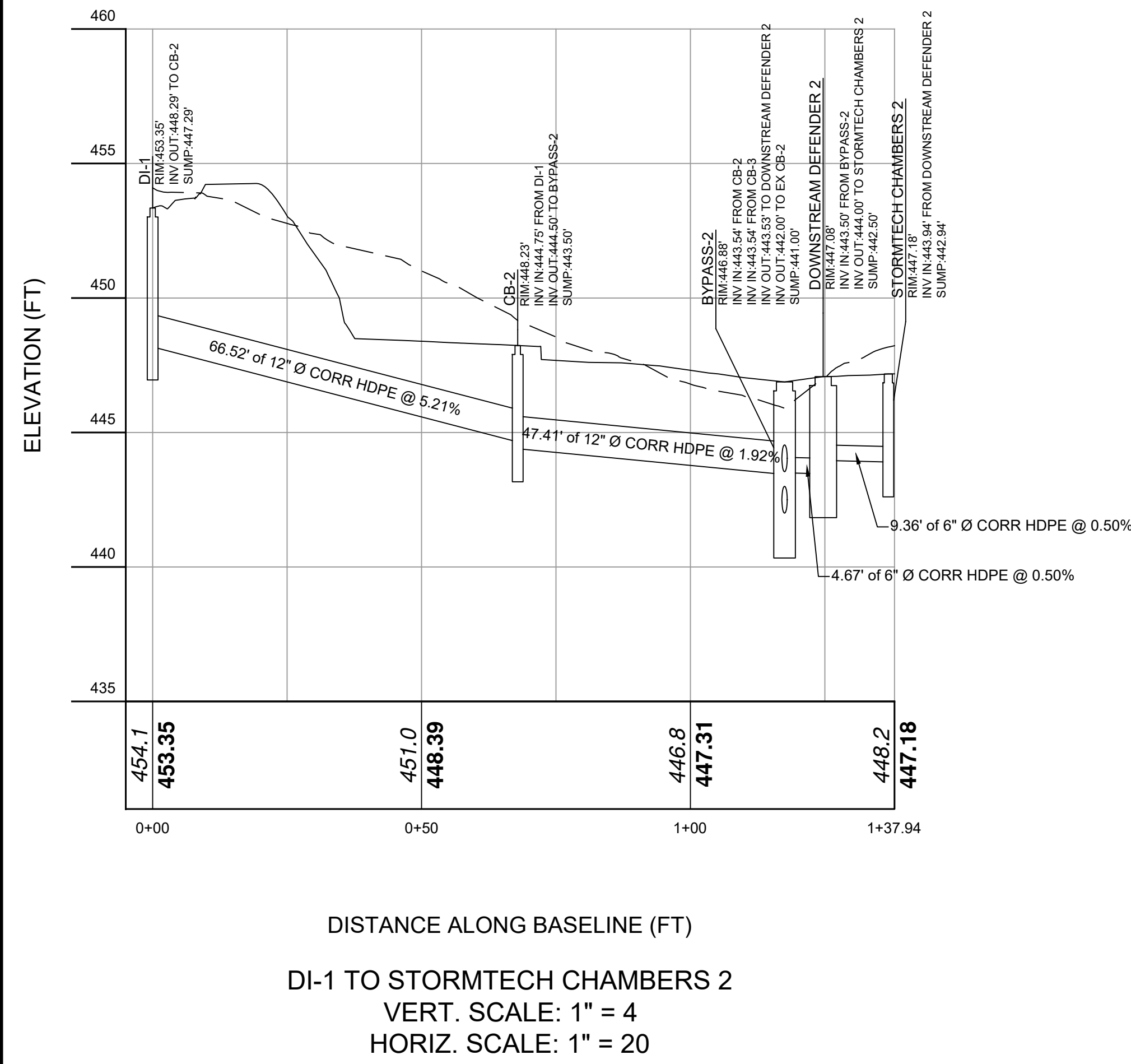






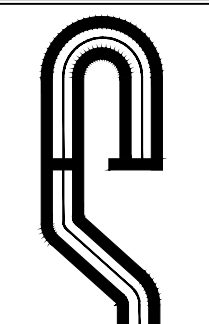


E:\2018\10\_MANTUCKET\_SOUND.LLC\_MIREBHYENGINEERING\CAD\CDD\10\_MANTUCKET\_SOUND.LLC\_MIREBHY\_SITE\_PLAN\8-25-20\_DWG\_1162017\_3\_19\_82.dwg



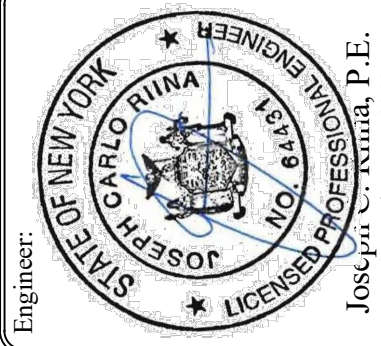
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PROJECT # 19-10



Revisions:	No.	Date	Comments
	1	6/17/20	Plan Revisions
	2	8/25/20	Toward Comments

SCALE:  
1" = 10'

DRAWN BY:  
TK

DATE:  
3/14/20

PROFILES

SITE PLAN  
PREPARED FOR  
**NANTUCKET SOUND  
SONS, LLC.**  
KEAR STREET  
Town of Yorktown

Westchester County, NY

Sheet  
7

of  
12



**GENERAL EROSION CONTROL NOTES:**

- Contractor shall be responsible for compliance with all sediment and erosion control practices. The sediment and erosion control practices are to be installed prior to any major soil disturbances, and maintained until permanent protection is established. Road surface flows from the site should be dissipated with tracking pad or appropriate measures during adjacent road shoulder grading. Contractor is responsible for the installation and maintenance of all soil erosion and sedimentation control devices throughout the course of construction.
- Catch basin inlet protection must be installed and operating at all times until tributary areas have been stabilized. When possible flows should be stabilized before reaching inlet protection structure. Timely maintenance of sediment control structures is the responsibility of the Contractor.
- All structures shall be maintained in good working order at all times. The sediment level in all sediment traps shall be closely monitored and sediment removed promptly when maximum levels are reached or as ordered by the engineer. All sediment control structures shall be inspected on a regular basis, and after each heavy rain to insure proper operation as designed. An inspection schedule shall be set forth prior to the start of construction.
- The locations and the installation times of the sediment capturing standards shall be as specified in these plans, as ordered by the Engineer, and in accordance with the latest edition of the "New York Standards and Specifications for Erosion and Sediment Control" (NYSSESC).
- All topsoil shall be placed in a stabilized stockpile for reuse on the site. All stockpile material required for final grading and stored on site shall be temporarily seeded and mulched within 7 days. Refer to soil stockpile details.
- Any disturbed areas that will be left exposed more than 7 days and not subject to construction traffic, shall immediately receive temporary seeding. Mulch shall be used if the season prevents the establishment of a temporary cover. Disturbed areas shall not be limed and subjected to temporary seeding.
- All disturbed areas within 500 feet of an inhabited dwelling shall be wetted as necessary to provide dust control.
- Contractor shall keep the roadways within the project clear of soil and debris and is responsible for any street cleaning necessary during the course of the project.
- Sediment and erosion control structures shall be removed and the area stabilized when the drainage area has been properly stabilized by permanent measures.
- All sediment and erosion control measures shall be installed in accordance with current edition of NYSSESC.
- All regraded areas must be stabilized appropriately prior to any rock blasting, cutting, and/or filling of soils. Special care should be taken during construction to insure stability during maintenance and integrity of control structures.
- Any slopes graded at 3:1 or greater shall be stabilized with erosion blankets to be staked into place in accordance with the manufacturers requirements. Erosion blankets may also be required at the discretion of Town officials or Project Engineer. When stabilized blanket is utilized for channel stabilization, place all of the volume of seed mix prior to laying net, or as recommended by the manufacturer.
- To prevent heavy construction equipment and trucks from tracking soil off-site, construct a pervious crushed stone pad. Locate and construct pads as detailed in these plans.
- Contractor is responsible for controlling dust by sprinkling exposed soil areas periodically with water as required. Contractor to supply all equipment and water.
- Contractor shall be responsible for construction inspections as per NYSDEC GP-0-15-002 and Town of Yorktown Code.

**MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES:**

N.Y.S.D.E.C. GP-0-15-002 EXPOSURE RESTRICTIONS - States that any exposed earthwork shall be stabilized in accordance with the guidelines of this plan.

- Trees and vegetation shall be protected at all times as shown on the detail drawing and as directed by the Engineer.
- Care should be taken so as not to channel concentrated runoff through the areas of construction activity on the site.
- Fill and site disturbances should not be created which causes water to pond off site or on adjacent properties.
- Runoff from land disturbances shall not be discharged or have the potential to discharge off site without first being intercepted by a control structure, such as a sediment trap or silt fence. Sediment shall be removed before exceeding 50% of the retention structure's capacity.
- For finished grading, adequate grade shall be provided so that water will not pond on lawns for more than 24 hours after rainfall, except in swale flow areas which may drain for as long as 48 hours after rainfall.
- All swales and other areas of concentrated flow shall be properly stabilized with temporary control measures to prevent erosion and sediment travel. Surface flows over cut and fill areas shall be stabilized at all times.
- All sites shall be stabilized with erosion control materials within 7 days of final grading.
- Temporary sediment trapping devices shall be removed from the site within 30 days of final stabilization.

**MAINTENANCE SCHEDULE:**

	DAILY	WEEKLY	MONTHLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION	AFTER APPROVAL OF INSPECTOR
SILT FENCE	---	INSP.	INSP.	INSP.	CLEAN/REPLACE	REMOVE
WHEEL CLEANER	CLEAN	---	---	---	REPLACE	REMOVE
INLET PROTECTION	---	INSP.	INSP.	CLEAN	REPLACE	REMOVE

**MAINTENANCE OF PERMANENT CONTROL STRUCTURES DURING CONSTRUCTION:**

The stormwater management system and outlet structure shall be inspected on a regular basis and after every rainfall event. Sediment build up shall be removed from the inlet protection regularly to insure detention capacity and proper drainage. Outlet structure shall be free of obstructions. All piping and drain inlets shall be free of obstruction. Any sediment build up shall be removed.

**MAINTENANCE OF CONTROLS AFTER CONSTRUCTION:**

Controls (including respective outlet structures) should be inspected periodically for the first few months after construction and on an annual basis thereafter. They should also be inspected after major storm events.

**DEBRIS AND LITTER REMOVAL:**

Twice a year, inspect outlet structure and drain inlets for accumulated debris. Also, remove any accumulations during each mowing operation.

**STRUCTURAL REPAIR/REPLACEMENT:**

Outlet structure must be inspected twice a year for evidence of structural damage and repaired immediately.

**EROSION CONTROL:**

Unstable areas tributary to the basin shall immediately be stabilized with vegetation or other appropriate erosion control measures.

**SEDIMENT REMOVAL:**

Sediment should be removed after it has reached a maximum depth of five inches above the stormwater management system floor.

**TOPSOIL:**

Existing topsoil will be removed and stored in piles sufficiently as to avoid mixing with other excavation. Stockpiles shall be surrounded by erosion control as outlined on these plans. The furnishing of new topsoil shall be of a better or equal to the following criteria (SS713.01 NYSDOT):

- The pH of the material shall be 5.5 to 7.6.
- The organic content shall not be less than 2% or more than 70%.
- Gradation:

SIEVE SIZE	% PASSING BY WGT.
2 INCH	100
1 INCH	85 TO 100
1/4 INCH	65 TO 100
NO. 200 MESH	20 TO 80

**PERMANENT VEGETATIVE COVER:**

- Site preparation:
  - Install erosion control measures.
  - Scarify compacted soil areas.
  - Lime as required to pH 6.5.
  - Fertilize with 10-6-4 4 lbs/1,000 S.F.
  - Incorporate amendments into soil with disc harrow.
- Seed mixtures for use on swales and cut and fill areas.

MIXTURE	LBS./ACRE
ALT. A	
KENTUCKY BLUE GRASS	20
CREeping RED FESCUE	28
RYE GRASS OR REDTOP	5
ALT. B	
CREeping RED FESCUE	20
REDTOP	2
TALL FESCUE/SMOOTH BLOOMGRASS	20
- SEEDING
  - Prepare seed bed by raking to remove stones, twigs, roots and other foreign material.
  - Apply soil amendments and integrate into soil.
  - Apply seed uniformly by cyclone seeder/cult-packer or hydro-seeder at rate indicated.
  - Stabilize seeded areas in drainage swales.
  - Irrigate to fully saturate soil layer, but not to dislodge planting soil.
  - Seed between April 1st and May 15th or August 15th and October 15th.
  - Seeding may occur May 15th and August 15th if adequate irrigation is provided.

**TEMPORARY VEGETATIVE COVER:**

- SITE PREPARATION:**
- Install erosion control measures.
  - Scarify areas of compacted soil.
  - Fertilize with 10-10-10 at 400/lb/acre.
  - Lime as required to pH 6.5.
- SEED SPECIES:**
- | MIXTURE   | LBS./ACRE |
|---|-----------|
| Rapidly germinating annual ryegrass (or approved equal) | 20        |
| Perennial ryegrass                                      | 20        |
| Cereal oats   | 36        |
- SEEDING:**
- Same as permanent vegetative cover

**CONSTRUCTION SEQUENCE:**

**General sequence: the general sequence applies to the start of all phases of the project. The requirements in this shall be applied as appropriate in that phase and shall be assumed in place prior to the start of the work outlined in the sequence for each phase.**

- Prior to the beginning of any site work the major features of the construction must be field staked by a licensed surveyor. These include the building, limits of disturbance, utility lines and stormwater practices.
- Prior to the start of the project, an on-site pre-construction meeting will be held. This will be attended by the project owner, the operator responsible for complying with the approved construction drawings including the erosion and sediment control (e&sc) plan and details, the design engineer, the engineer responsible for e&sc monitoring during construction, town representatives from the engineering department and code enforcement, and a representative from the NYC DEP. The DEP shall be notified 48 hrs prior to the start of the meeting.
- Cut and clear trees within the phase limits as necessary for the areas to be disturbed.
- Install all temporary erosion control measures as shown on the erosion and sediment control plan for the project's immediate disturbance areas. This shall include, but not limited to silt fence, stabilized construction entrances, construction fence, etc. This sequence must be followed to insure proper implementation of the erosion and sediment control plan (e&sc) and stormwater pollution prevention plan (swppp).
- Timbered trees and woodchips shall be temporarily stored in the stockpile and/or staging area if necessary before being removed off-site. Woodchips may be used for mulch to stabilize disturbed areas. Woodchip mulch shall be applied at a minimum rate of 500 lbs. Per 1000 sq ft (2" thick minimum).
- Remove existing vegetative cover, cut and clear trees, grub, remove stumps and other surface features in the limit of construction only. Any disturbance that results from tree clearing and grubbing shall be immediately stabilized with woodchips mulch, hydro-mulch, or straw and seed. Timbered trees, wood chips, and stumps shall be removed off-site unless otherwise directed. As staked woodchips may be stockpiled for use as stabilizing ground cover. These stockpiles shall be separate from soil stockpiles. Demolish and/or remove existing features, i.e. fence, concrete slab, asphalt, etc., and dispose of or stockpile as required by the owner. All construction debris shall be properly disposed of in accordance with all federal, state, and local requirements.

**Standard sequence notes for building construction**

- The surveyor shall stake-out the proposed driveway centerlines and the limits of cut and fill
- Implement the general sequence notes 1 through 6 where applicable prior to continuing.
- Once the tree removal operation is complete strip the topsoil within the work boundary and place excavated topsoil within the identified stockpile locations. Any soils so deemed by the design or monitoring engineer shall be stockpiled for future use as landscaped area topsoil. Contractor shall take every precaution feasible to reduce the amount of disturbed/exposed soils during construction.
- Any disturbed area that will not be further disturbed within seven (7) days shall be immediately stabilized with woodchips, hydro-mulch, or straw and seed.
- Prior to starting the work install all erosion and sediment controls including the installation of the stabilized construction entrance.
- Begin rough grading of driveways within work limits and adjacent areas. Slopes in excess of 3h:1v shall not be left exposed and must be stabilized.
- Stake-out the location of utilities and utility structures. Begin installation of subsurface infiltration chambers.
- Backfill as installation is complete and stabilize the area. If trenches are to be left open, place excavated material on the up-slope sides of the trench and protect and stabilize if it is to remain open for an extended period of seven (7) days or more.
- Upon completion of the subsurface chambers, Place construction fencing around the system to prevent compaction during the remainder of construction.
- Begin installation of proposed bypass and outlet structures. Install storm sewer piping, catch basins and manholes, working downstream to upstream. The upstream drainage structure shall be blocked so as to not allow sediment laden water from reaching the subsurface chambers. During the installation of catch basins, install inlet protection for each e&sc plan to assure that sediment laden water will not enter the storm system. Once the final grade above the system is achieved, put into place the final topsoil cover, seed mix, and erosion control blanket, or hydro-mulch. Refer to the landscape plan for the seed mix requirements.

**Note: no stormwater is permitted to enter the infiltration system from the upstream conveyance system and shall be blocked until the completion and stabilization of all phases tributary to the basin. An area shall be considered to have achieved final stabilization when it has a minimum uniform 80% perennial vegetative cover or other permanent non-vegetative cover of sufficient density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding and other movements.**

- Begin excavation of the building foundation for the building and adjacent areas.
- Install or check condition of all temporary erosion control measures as shown on the erosion and sediment control plan.
- Begin construction of the foundation. Upon completion and after proper curing time is achieved, backfill the foundation and bring site to rough grade. Areas which are to remain undisturbed for more than seven (7) days shall be stabilized with temporary seeding or mulch.
- Proceed with the construction of the buildings. This includes the building structure itself, retaining walls, and rough grades. At any point during this begin installation of the utilities including the water and sewer connections, power utilities.
- Once the utilities have been brought up to the building foundation, grade and install the base course for the driveways and parking areas.
- Complete construction of the buildings and remaining retaining walls.
- Stake out and install curbing as per plan. Once curbing is completed around catch basins, re-install inlet protection within catch basins. As curbing is complete, backfill with topsoil. Areas that are filled with topsoil are to be raked, seeded, and hay mulched.
- Upon completion of the majority of the infrastructure, install pavement binder course to the thickness and elevation as per the construction plans.
- As work is at the completion stage install final asphalt surface in the locations shown.
- Install hardscape such as patios, walk steps etc., and final vegetation including sod and landscaping. Refer to landscape plans for location and identification of ground cover and plantings. Clear site of debris and all unwanted materials. Disposal shall be in accordance with all federal, state, and local requirements.
- During the final phase of building construction, finish grade, topsoil, rake, and seed all areas as required. Where required or recommended, hydro-mulch or install erosion control blankets.
- Upon completion of work, the contractor shall be required to stabilize disturbed soils in the event the disturbed area will remain not worked for greater than seven (7) days, at the direction of the engineer of record or permitting entity inspector, and when significant precipitation is in the immediate forecast. All disturbed areas shall be temporarily stabilized with hydro-mulch or where appropriate woodchips. It is recommended that any grading that is at the finish stage will receive no further disturbance and that permanent stabilization such as topsoil, seed, mulching or blankets as per the plan be installed.

**Final site stabilization and completion of new construction:**

- Upon completion of all work, the site shall be inspected by the supervising engineer and town inspector to determine completion of all work and permanent stabilization of the site.
- Any areas deemed incomplete or not properly stabilized shall be done so to the satisfaction to the supervising engineer and town inspector.
- Once the site is deemed adequately stable the temporary erosion and sediment control measures can be removed. At that time if deemed appropriate drainage structures upstream from the subsurface stormwater management systems shall be cleaned of sediment and debris. They can then be unblocked to allow for flow of collected surface runoff.

Contact information during and after construction:

Terence Murphy  
1672 Morningview Drive  
Yorktown, NY 10598  
914-224-8348

**Winter Stabilization Notes:**

If construction activities are expected to extend into or occur during the winter season the contractor shall anticipate proper stabilization and sequencing. Construction shall be sequenced such that wherever possible areas of disturbance that can be completed and permanently stabilized shall be done by applying and establishing permanent vegetative cover before the first frost. Areas subject to temporary disturbance that will not be worked for an extended period of time shall be treated with temporary seed, mulch, and/or erosion blankets.

**OWNER / OPERATOR CERTIFICATION**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. I am aware that false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law."

Name (please print): \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Signature: \_\_\_\_\_

**POST CONSTRUCTION MAINTENANCE SCHEDULE:**

Control to be Inspected	Inspection Frequency	Maintenance Threshold Criteria	Maintenance Procedure
Drain Inlets	Quarterly	3" + Accumulated Sediment	Remove debris and sediment.
Infiltration Chambers	Bi-annually	3" + Accumulated Sediment	JetVac debris and sediment
Downstream Defender	Bi-annually	18" + Accumulated Sediment	Vacuum debris and sediment

**CONTRACTOR CERTIFICATION STATEMENT**

Certification Statement - All contractors and subcontractors as identified in a SWPPP, by the Owner or Operator, in accordance with Part III.A.5 of the SPDES General Permit for Stormwater Runoff from Construction Activity, GP-0-15-002, dated January 29, 2015, Page 10 of 40, shall sign a copy of the following Certification Statement before undertaking any construction activity at the Site identified in the SWPPP:

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the Qualified Inspector during a site inspection. I also understand that the Owner or Operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") General Permit for Stormwater Discharge from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings."

Individual Contractor: \_\_\_\_\_

Name and Title (please print): \_\_\_\_\_

Signature of Contractor: \_\_\_\_\_

Company / Contracting Firm: \_\_\_\_\_

Name of Company: \_\_\_\_\_

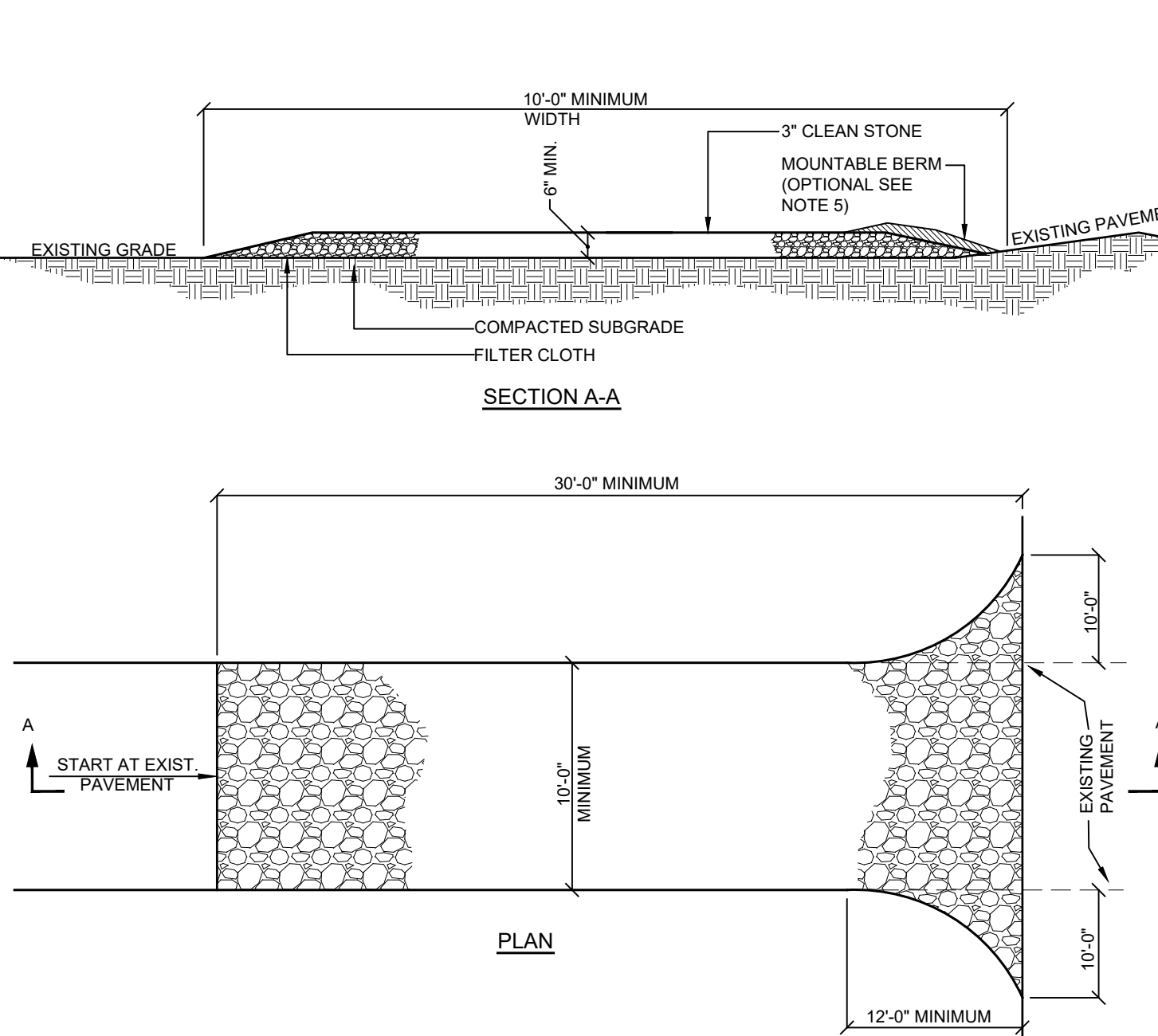
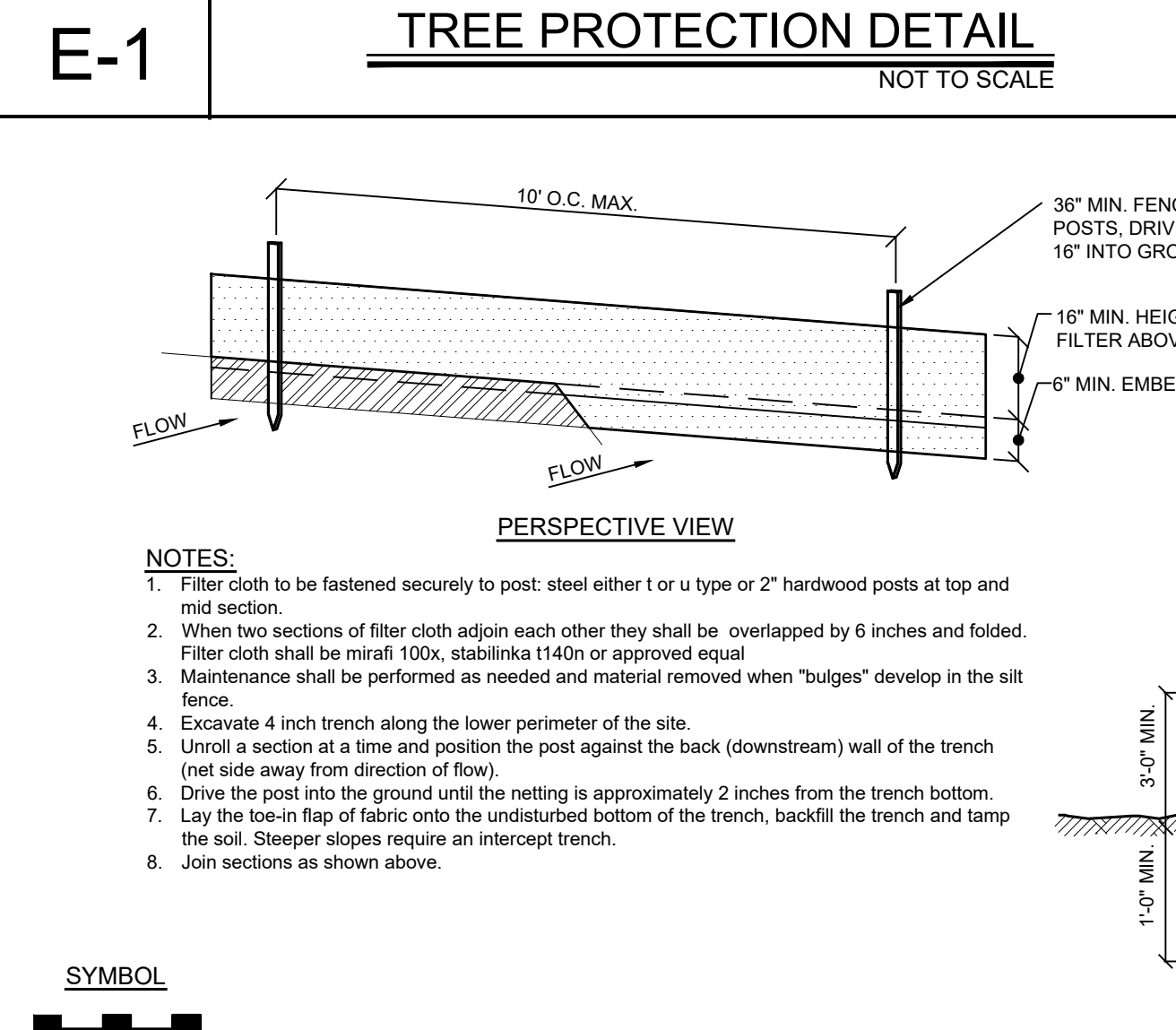
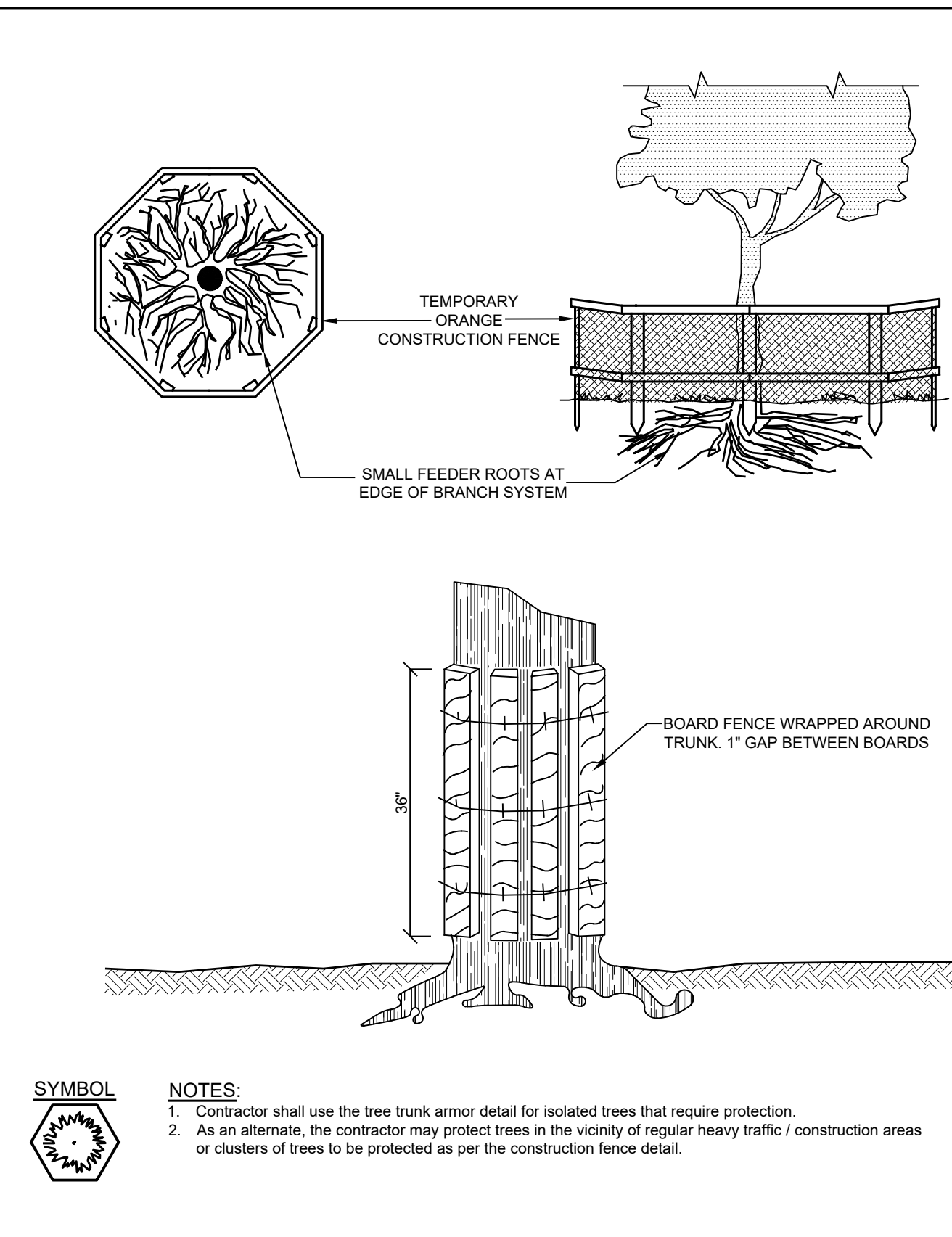
Address of Company: \_\_\_\_\_

Telephone Number / Cell Number: \_\_\_\_\_

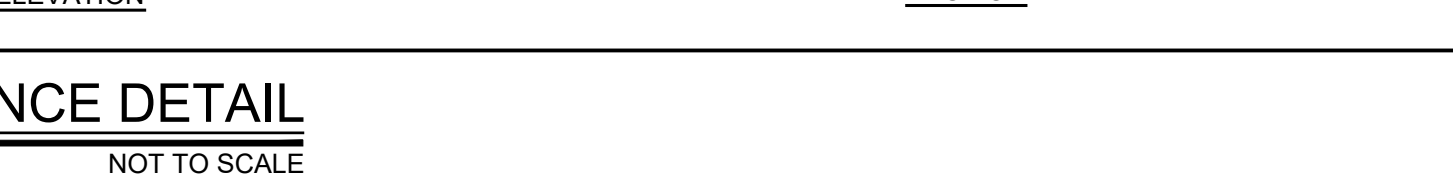
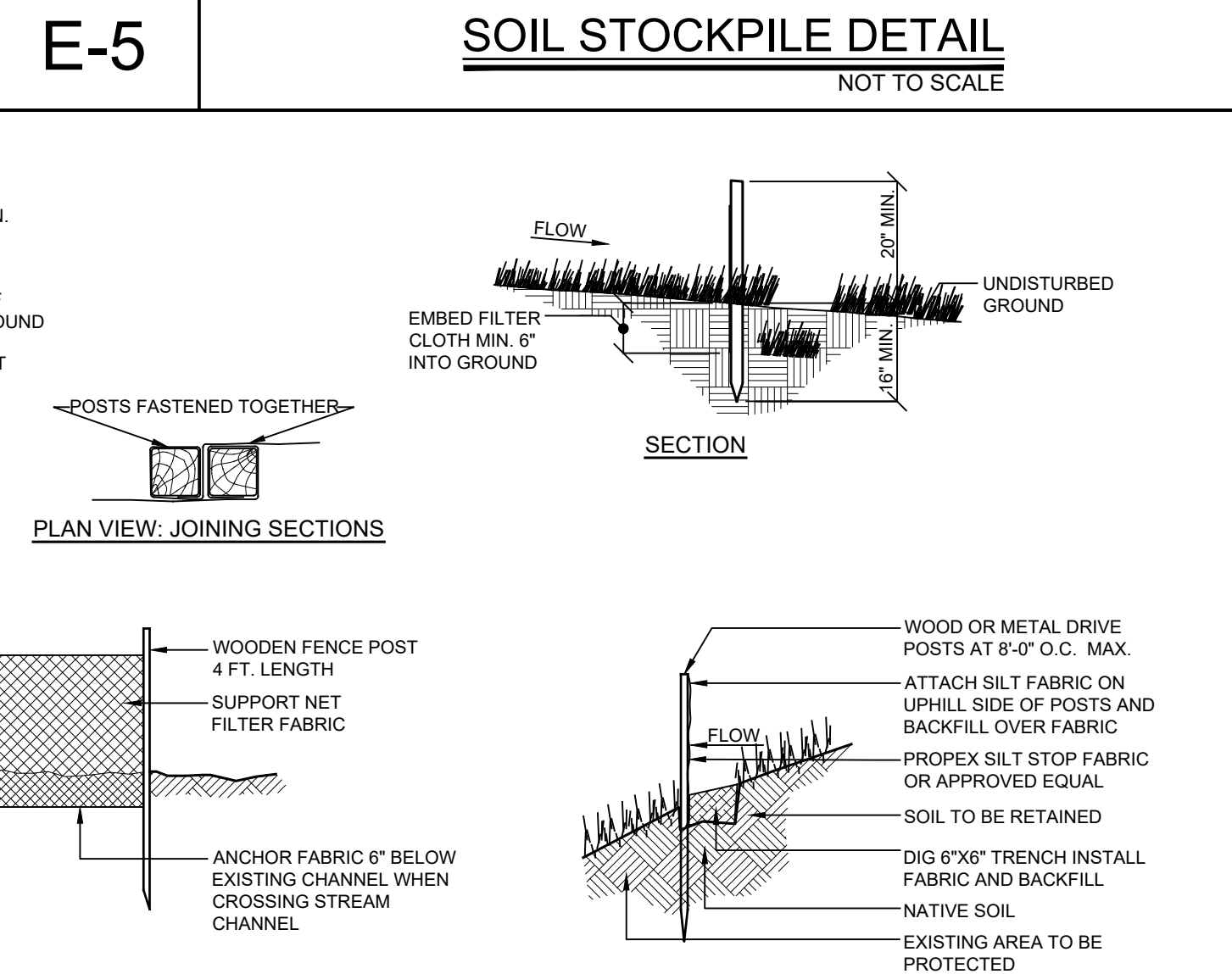
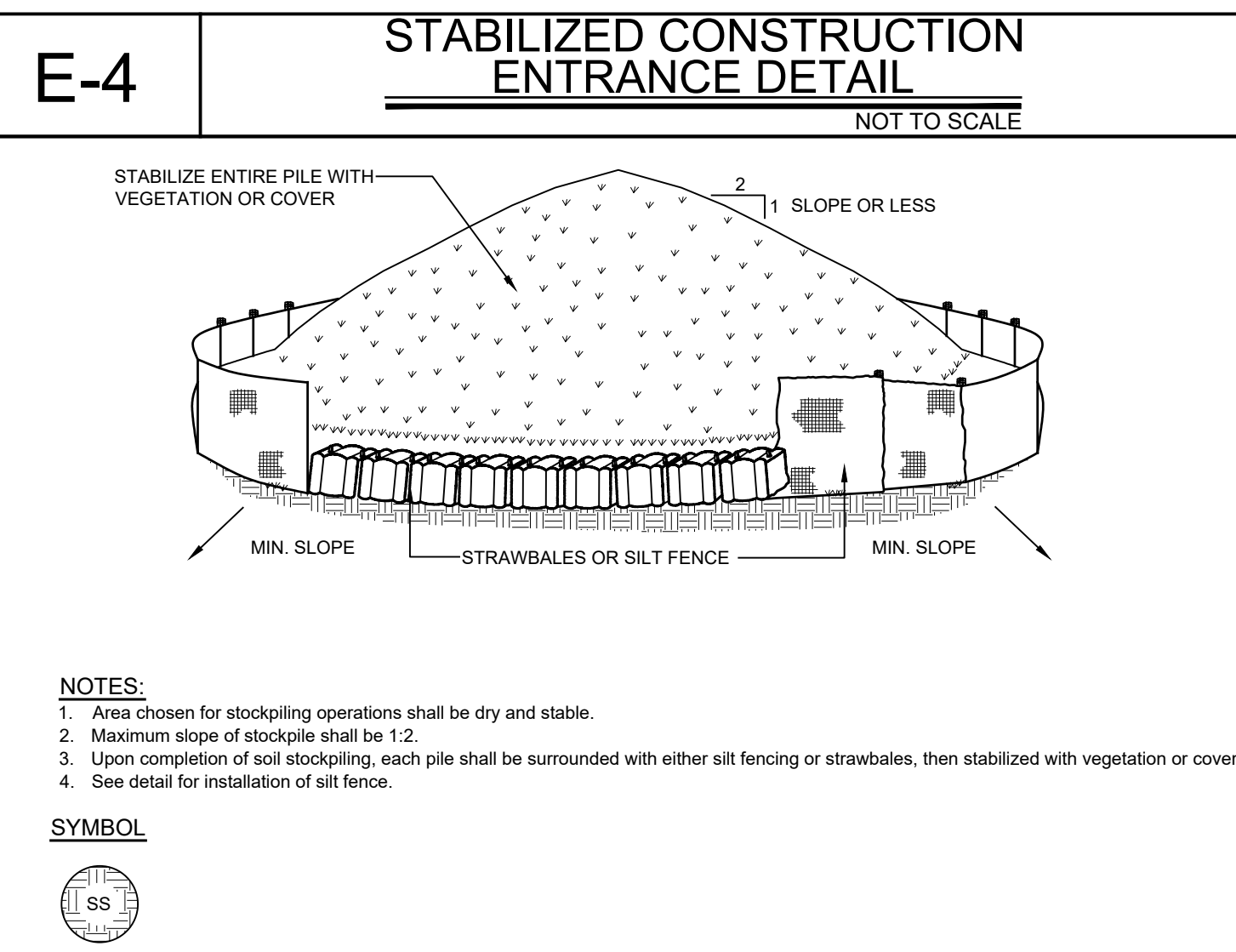
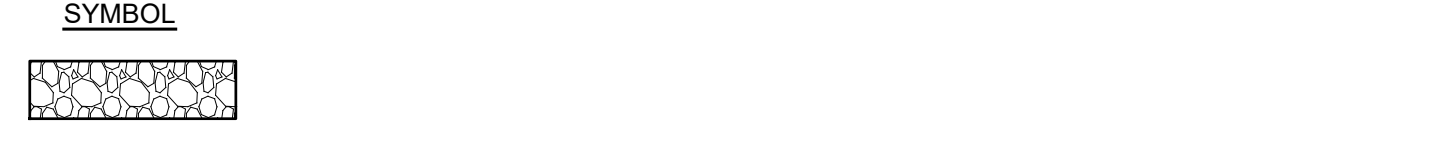
Site Information: \_\_\_\_\_

Address of Site: \_\_\_\_\_

Today's Date: \_\_\_\_\_



- INSTALLATION NOTES:**
- Stone size - use 3" min. Stone, or reclaimed or recycled concrete equivalent.
  - Length - as required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - not less than six (6) inches.
  - Width - 10 foot minimum, but not less than the full width at points where ingress or egress occur. 24 ft if single entrance to site.
  - Surface water - all surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 5:1 slopes will be permitted.
  - Maintenance - the entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right of way which may require periodic top dressing with additional stone as conditions demand and repair and/or cleanouts of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public right of way must be removed immediately.
  - Washing - wheels shall be cleaned to remove sediment prior to entrance onto public right of way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.



**Site Design Consultants**  
Civil Engineers • Land Planners  
251-F Underhill Avenue, Yorktown Heights, NY 10598  
(914) 962-4488 - Fax: (914) 962-7386  
www.sitedesignconsultants.com

Project # 19-10

Engineer: Joseph C. Rima, P.E.  
NYS Lic. No. 64481

Revisions:

No.	Date	Comments
1	6/17/20	Plan Revisions
2	8/25/20	Town Comments

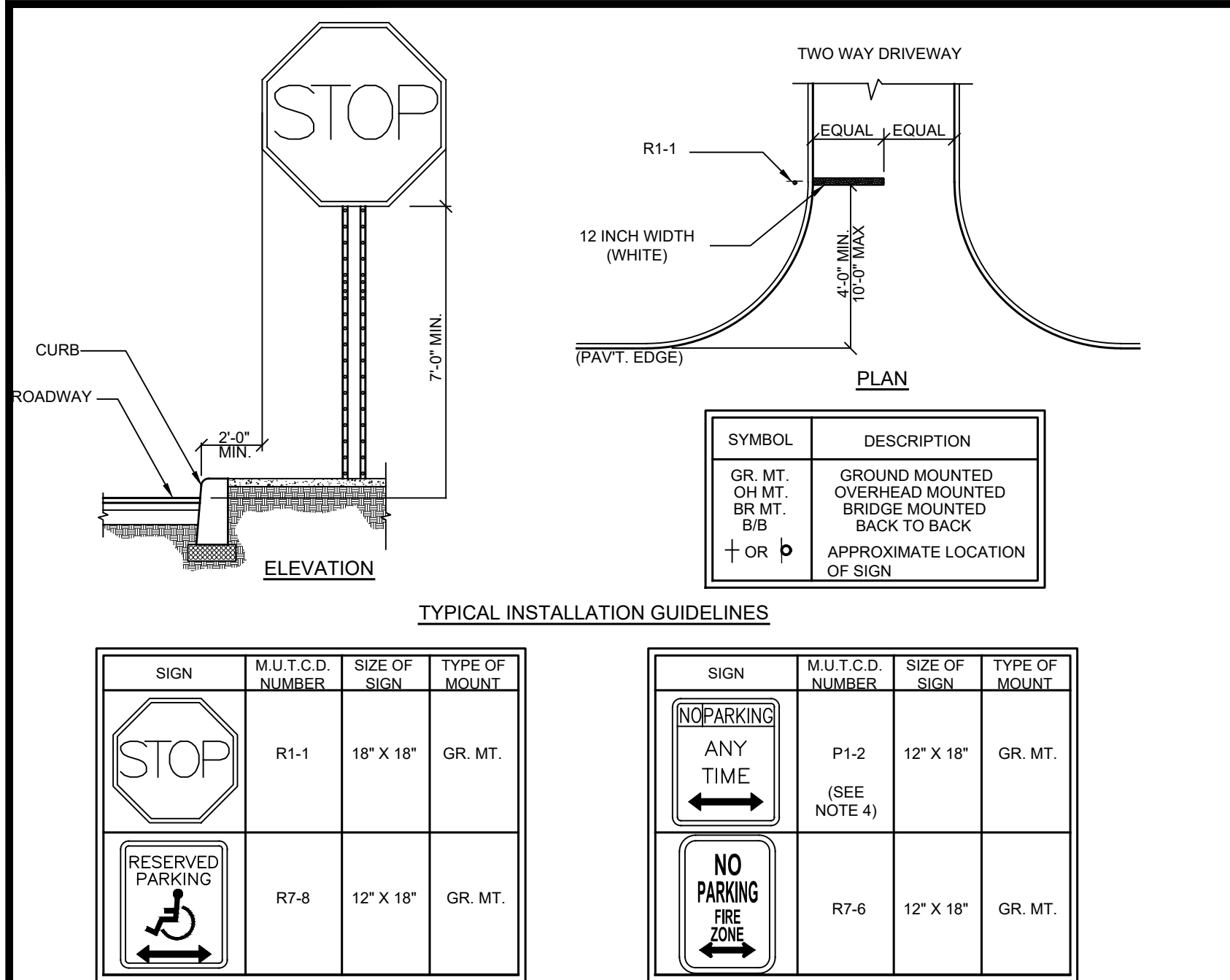
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DRAWN BY: TK  
DATE: 3/14/20

**E&SC NOTES & DETAILS**

**NANTUCKET SOUND SONS, LLC.**  
KEAR STREET  
Westchester County, NY  
Town of Yorktown

Sheet 8 of 12





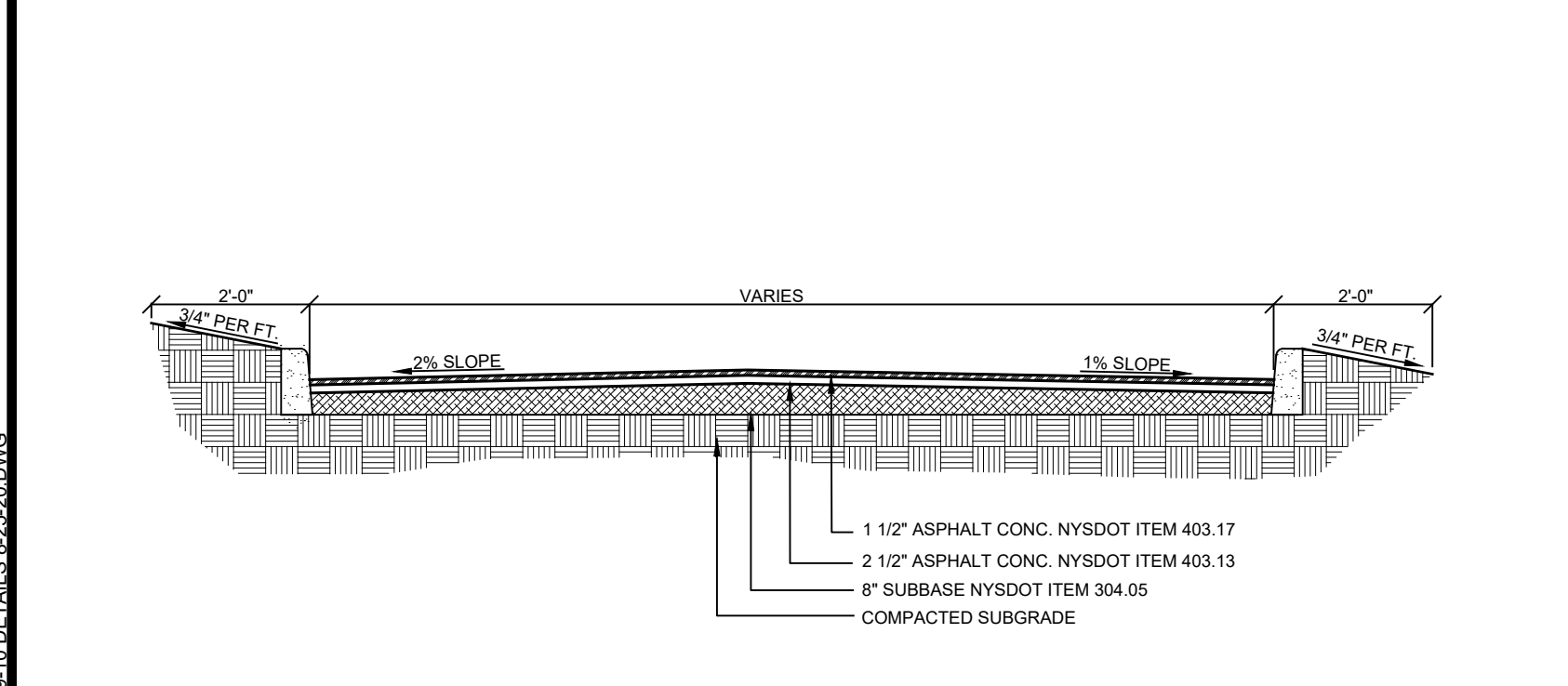
SIGN	M.U.T.C.D. NUMBER	SIZE OF SIGN	TYPE OF MOUNT
	R1-1	18" X 18"	GR. MT.
	R7-8	12" X 18"	GR. MT.

**GENERAL NOTES:**

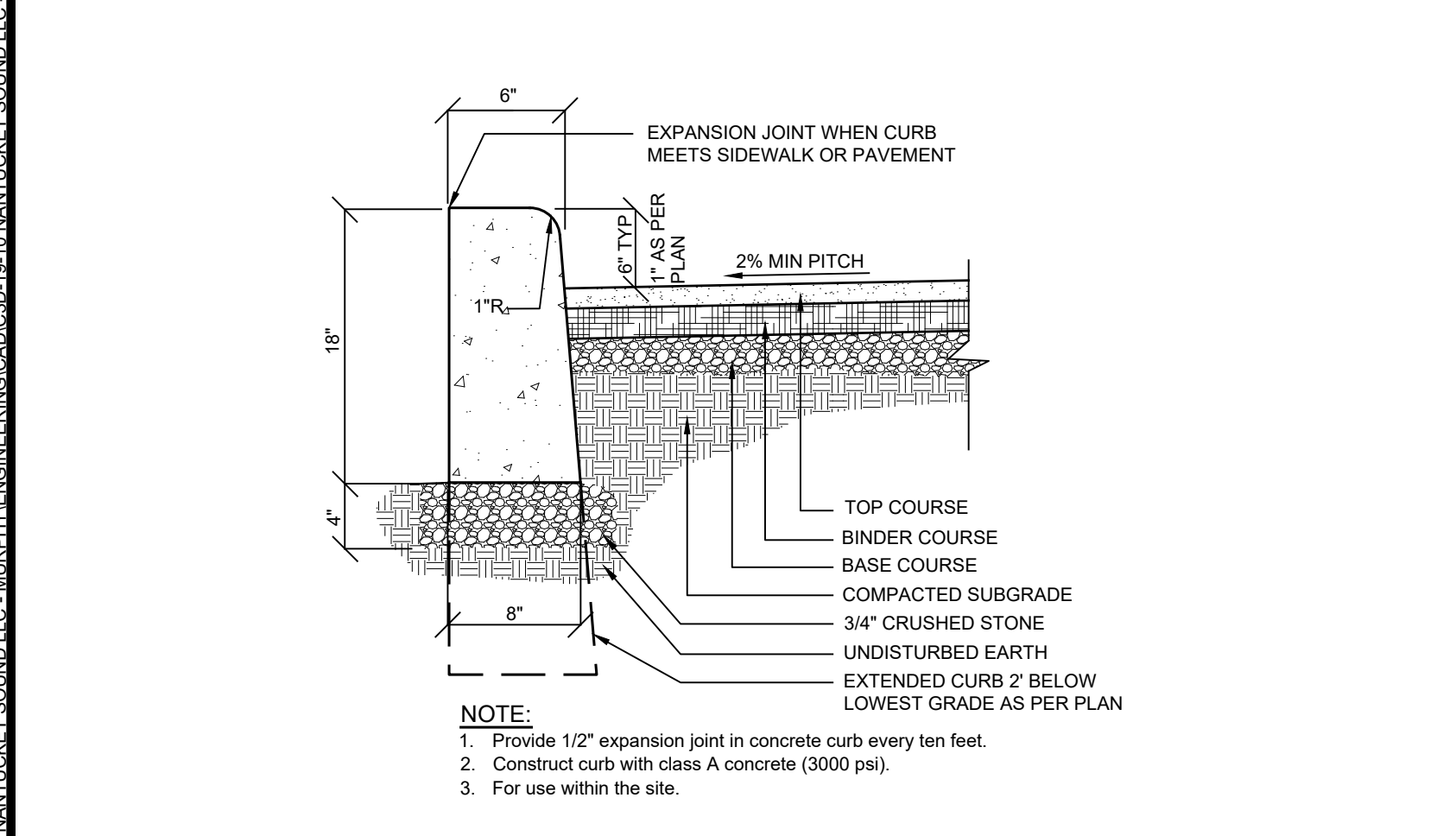
- All signage shall be in accordance with the latest edition of the national MUTCD and the N.Y.S Supplement (MUTCD), September 2007, including the following:
  - A. Letter size and series
  - B. Legend and background color
  - C. Reflectivity
  - D. Size of sign
- The type of characters as specified in the standard specifications shall be as follows:
 

MUTCD CODE LETTER	TYPE OF CHARACTER
R, P, W, M	TYPE IV
G, I	TYPE IV OR V
- Sign locations as shown on plans are approximate. The Contractor shall relocate existing signs and install new signs in accordance with the MUTCD, latest edition. The Contractor shall contact the Town Engineer to discuss/resolve problem areas.
- Except where otherwise specified, parking signs shall be placed facing approaching traffic at an angle of between 30 and 45 degrees with the line of traffic flow. Parking signs shall be placed at each end of a regulation (double-headed arrows), at intervals not to exceed 200 ft.
- Where new signs are installed the Contractor shall affix a label to the back of the sign panel. This label will show the date of installation and identification numbers.
- Placement of W3-17 sign is prescribed in the General Municipal Law.

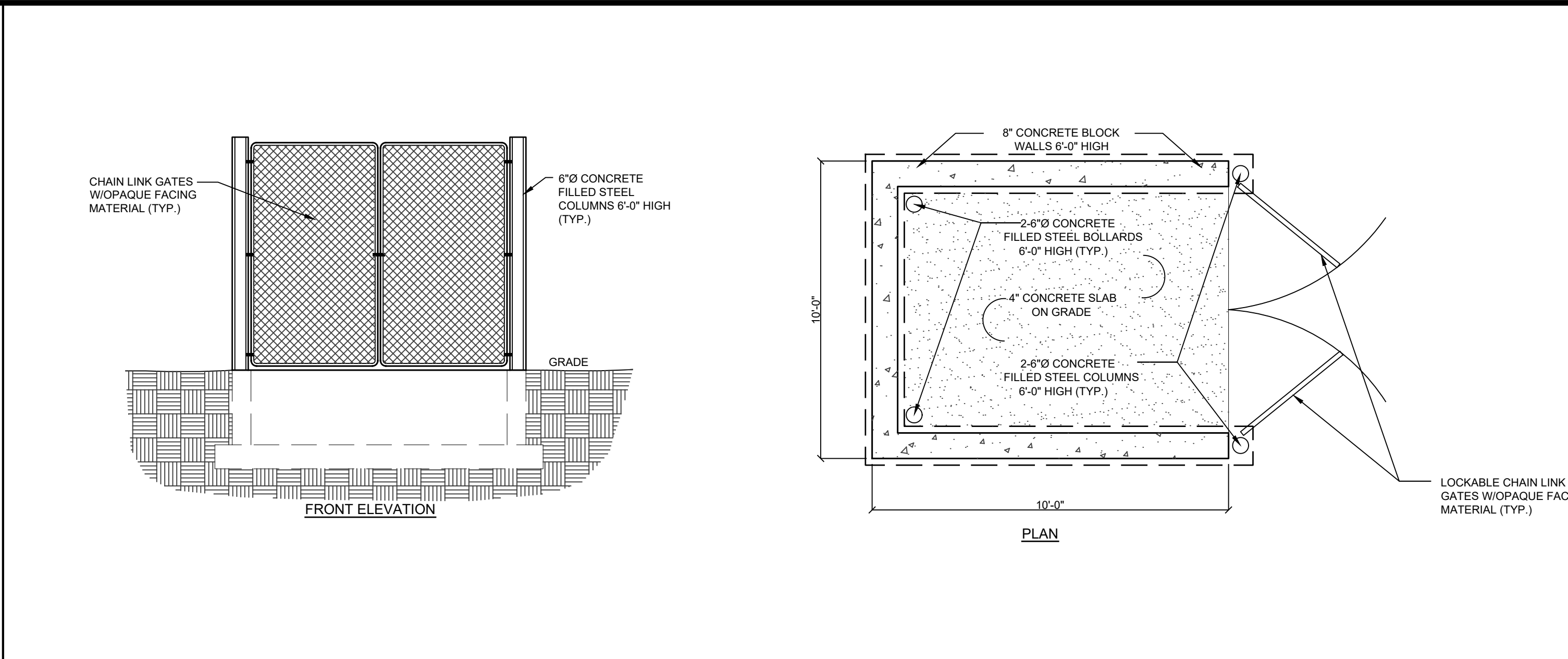
**R-1 TRAFFIC SIGN DETAIL**  
NOT TO SCALE



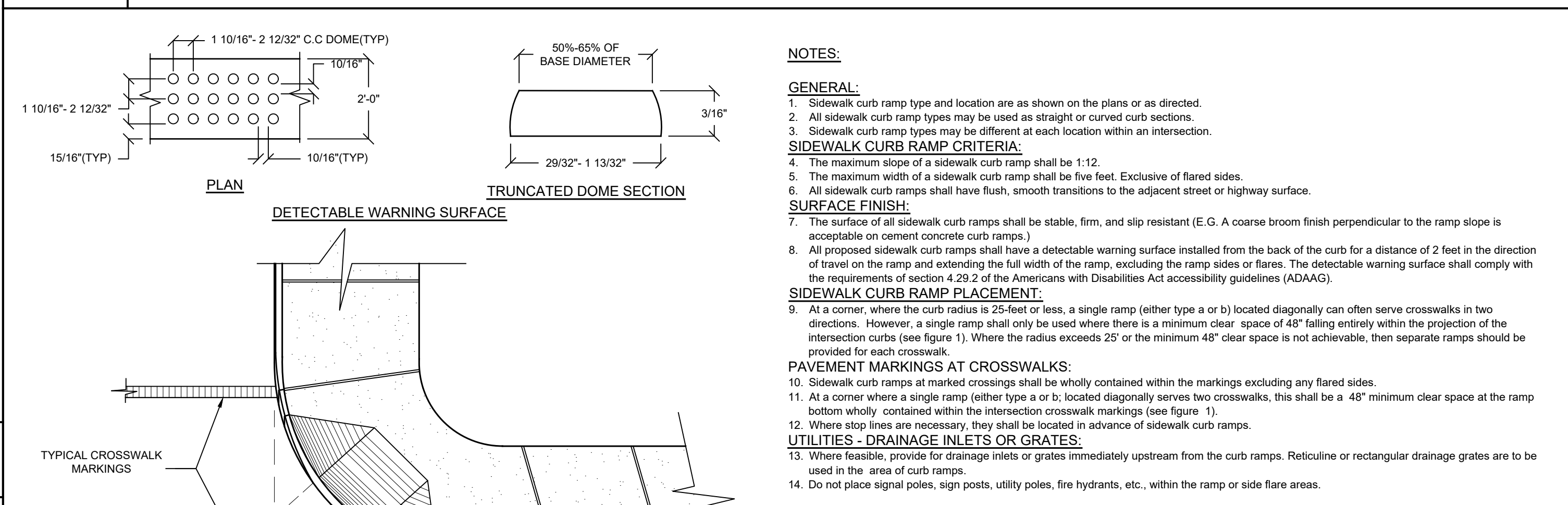
**R-2 TYPICAL DRIVEWAY AND PARKING LOT SECTION**  
NOT TO SCALE



**R-3 CONCRETE CURB DETAIL**  
NOT TO SCALE



**F-1 TRASH ENCLOSURE**  
NOT TO SCALE



**NOTES:**

**GENERAL:**

- Sidewalk curb ramp type and location are as shown on the plans or as directed.
- All sidewalk curb ramp types may be used as straight or curved curb sections.
- Sidewalk curb ramp types may be different at each location within an intersection.

**SIDEWALK CURB RAMP CRITERIA:**

- The maximum slope of a sidewalk curb ramp shall be 1:12.
- The maximum width of a sidewalk curb ramp shall be five feet. Exclusive of flared sides.
- All sidewalk curb ramps shall have flush, smooth transitions to the adjacent street or highway surface.

**SURFACE FINISH:**

- The surface of all sidewalk curb ramps shall be stable, firm, and slip resistant (E.G. A coarse broom finish perpendicular to the ramp slope is acceptable on cement concrete curb ramps.)

**SIDEWALK CURB RAMP PLACEMENT:**

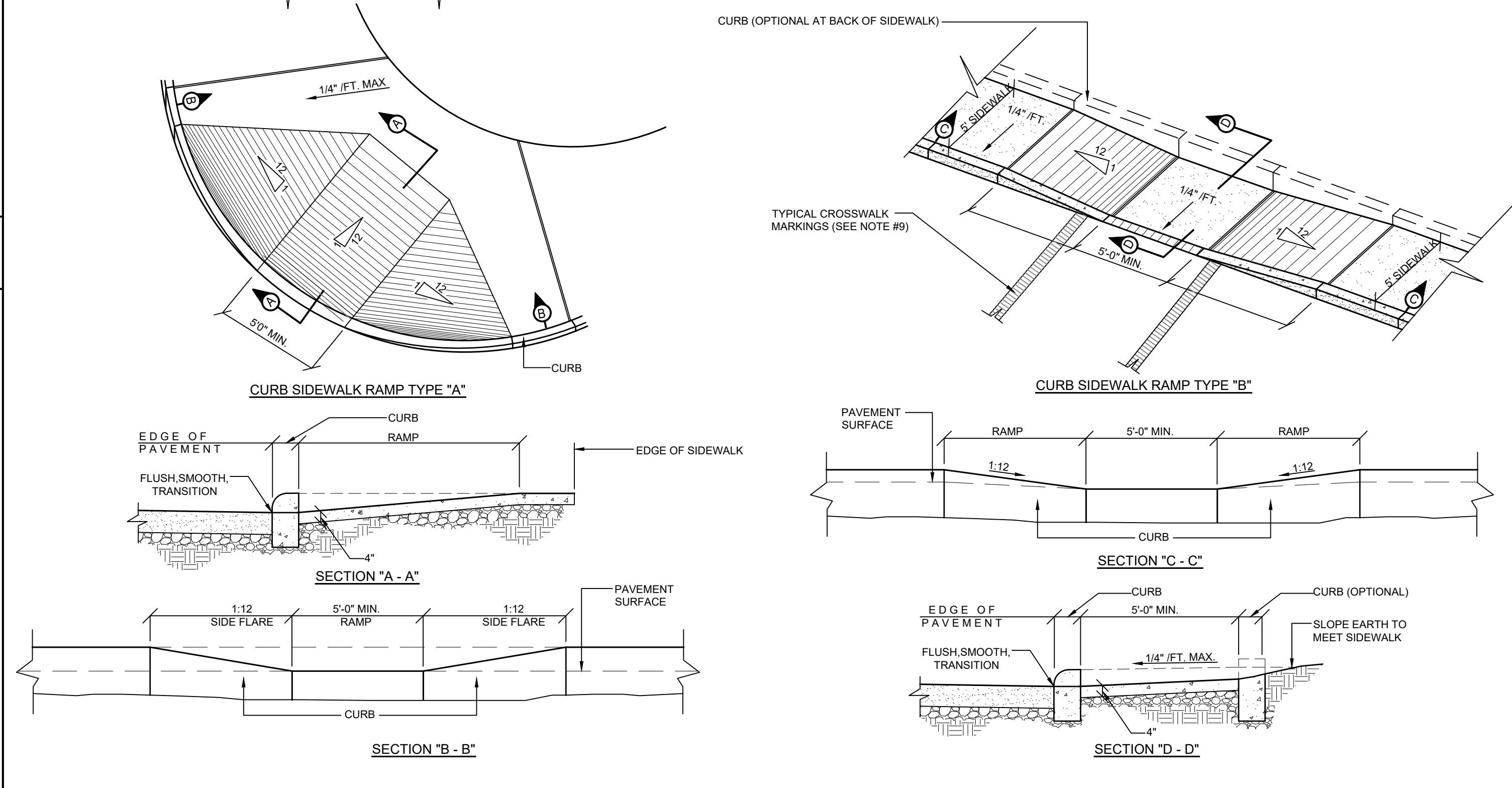
- At a corner, where the curb radius is 25-feet or less, a single ramp (either type a or b) located diagonally can often serve crosswalks in two directions. However, a single ramp shall only be used where there is a minimum clear space of 48" falling entirely within the projection of the intersection curbs (see figure 1). Where the radius exceeds 25' or the minimum 48" clear space is not achievable, then separate ramps should be provided for each crosswalk.

**PAVEMENT MARKINGS AT CROSSWALKS:**

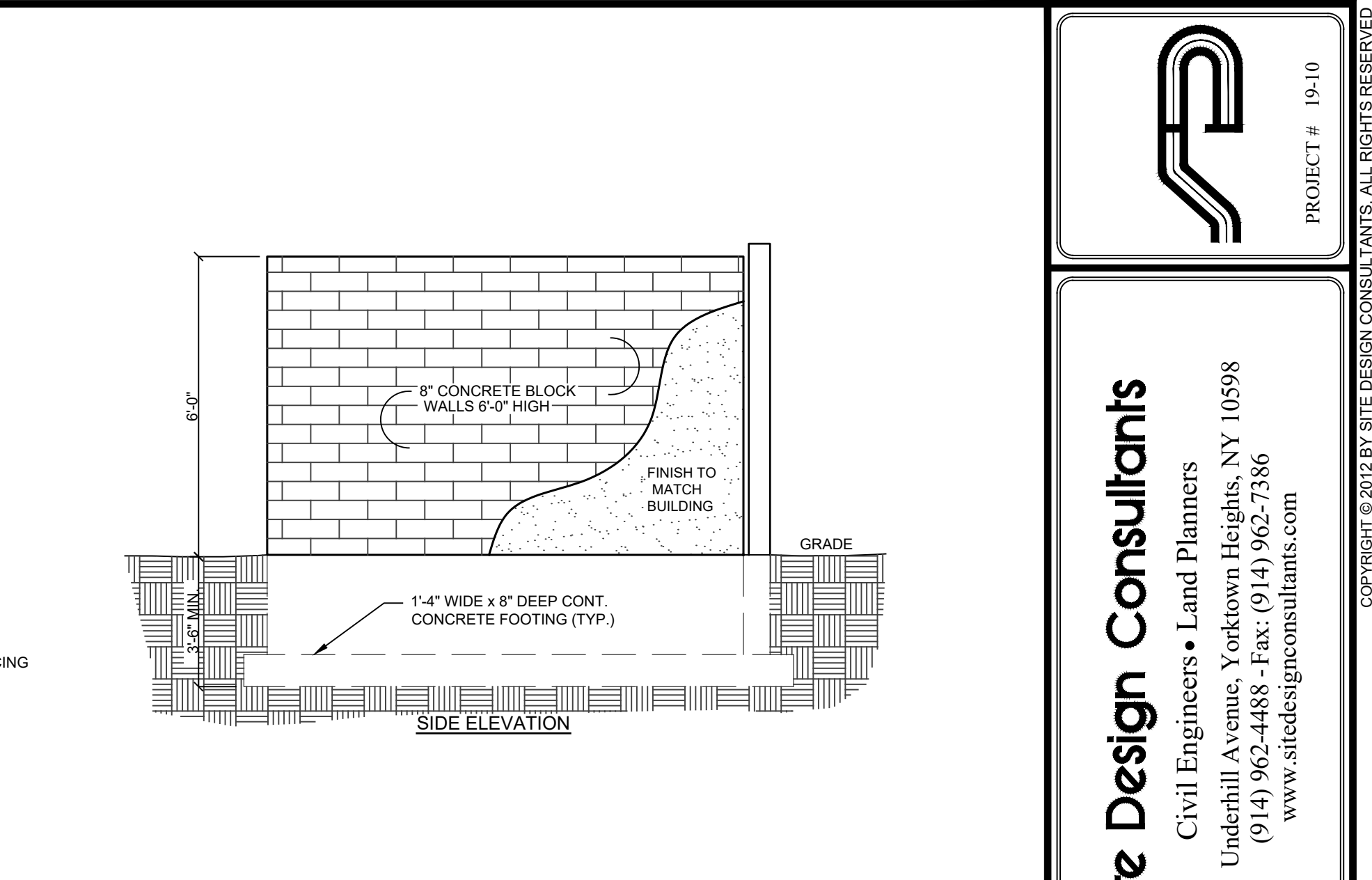
- Sidewalk curb ramps at marked crossings shall be wholly contained within the markings excluding any flared sides.
- At a corner where a single ramp (either type a or b, located diagonally serves two crosswalks, this shall be a 48" minimum clear space at the ramp bottom wholly contained within the intersection crosswalk markings (see figure 1).
- Where stop lines are necessary, they shall be located in advance of sidewalk curb ramps.

**UTILITIES - DRAINAGE INLETS OR GRATES:**

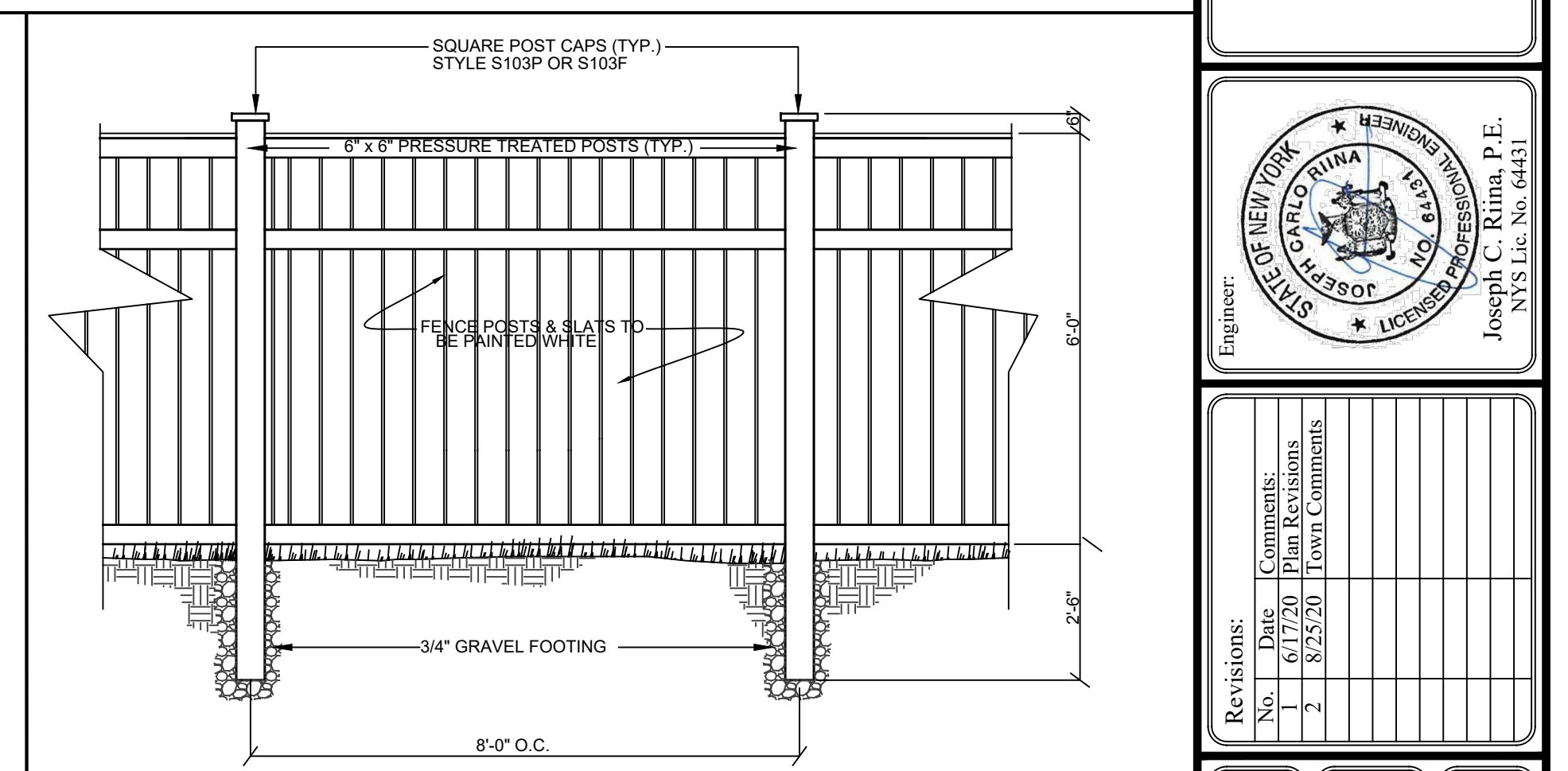
- Where feasible, provide for drainage inlets or grates immediately upstream from the curb ramps. Reticuline or rectangular drainage grates are to be used in the area of curb ramps.
- Do not place signal poles, sign posts, utility poles, fire hydrants, etc., within the ramp or side flare areas.



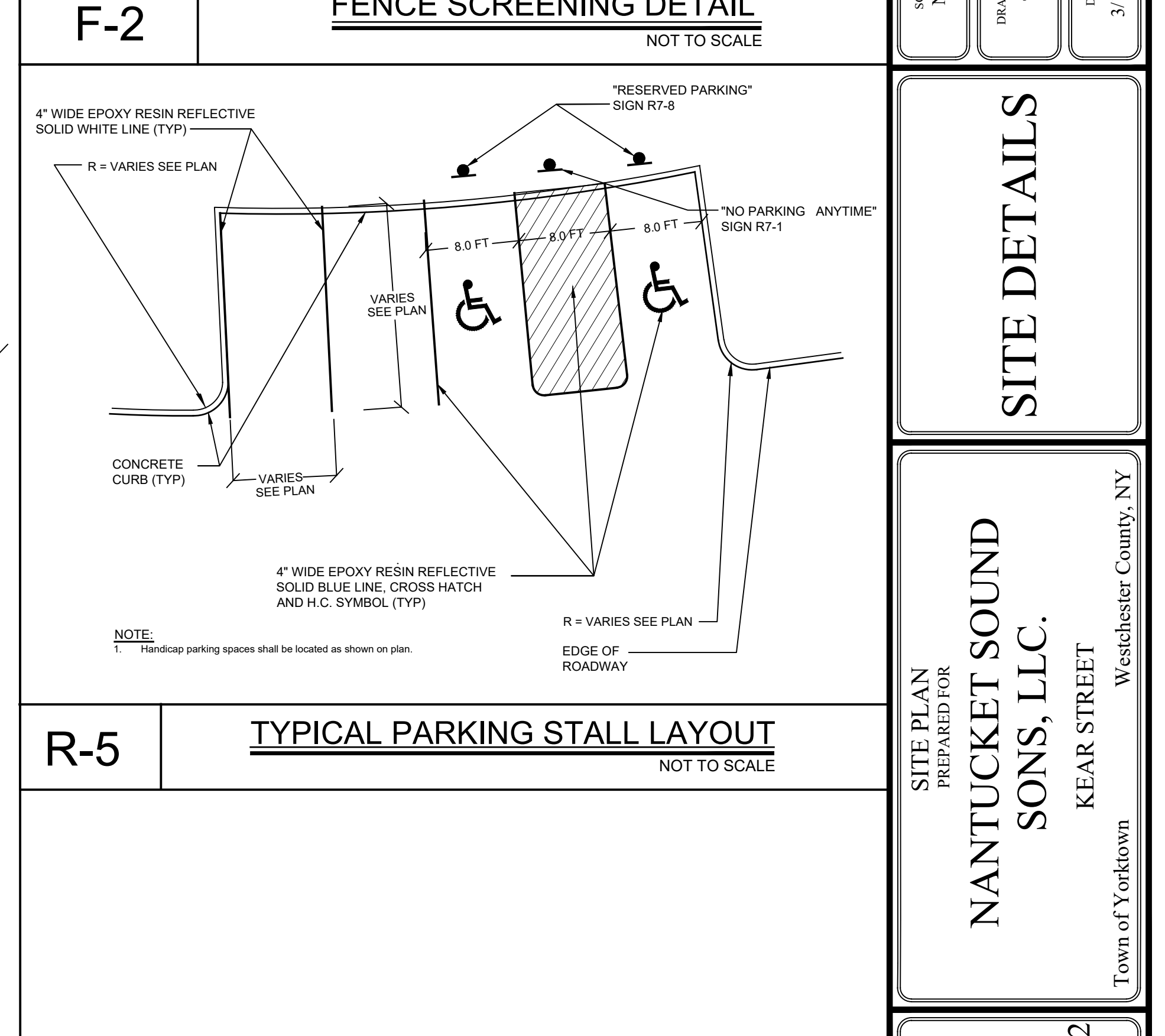
**R-4 SIDEWALK CURB-RAMP DETAIL**  
NOT TO SCALE



**F-2 FENCE SCREENING DETAIL**  
NOT TO SCALE



**R-5 TYPICAL PARKING STALL LAYOUT**  
NOT TO SCALE



**R-3 CONCRETE CURB DETAIL**  
NOT TO SCALE

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Project # 19-10

Engineer:

Revisions:	No.	Date	Comments
	1	6/17/20	Plan Revisions
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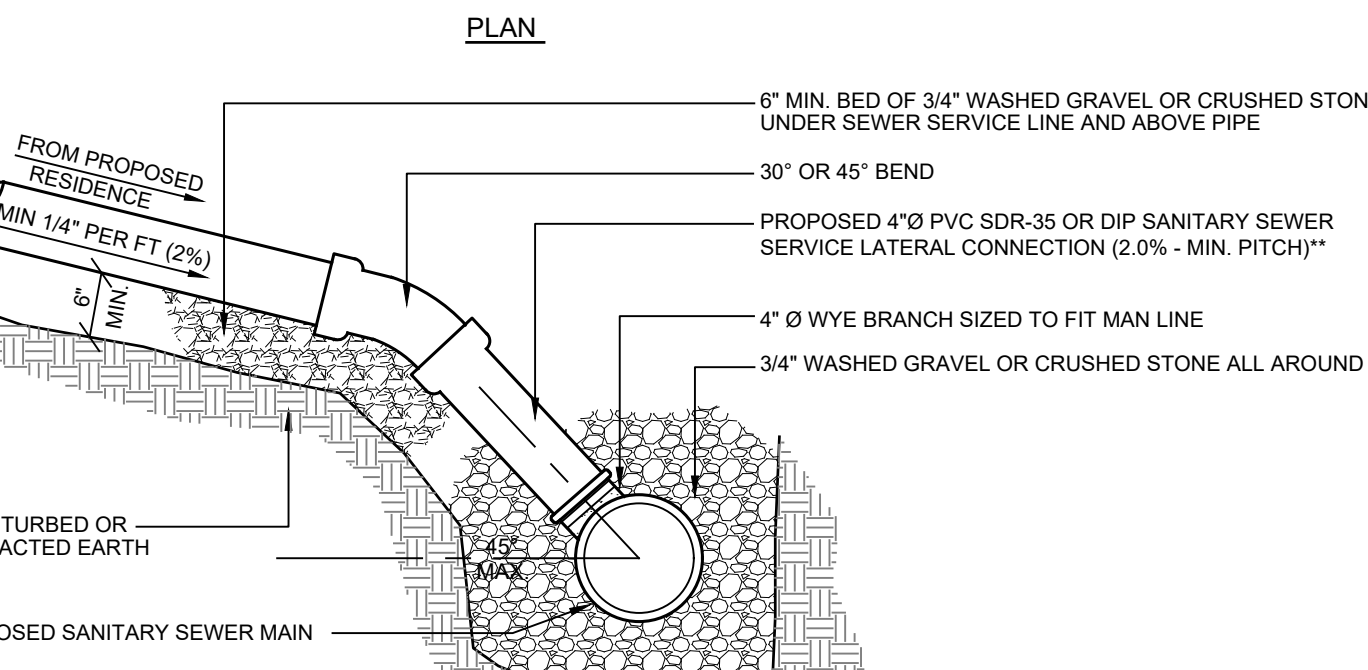
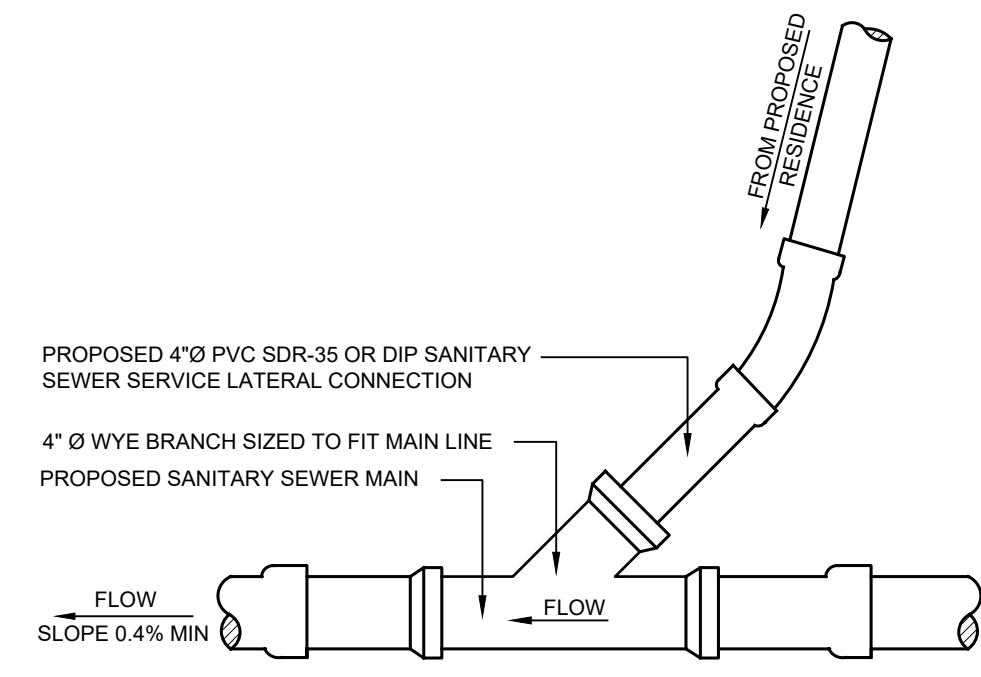
SCALE: NTS  
DRAWN BY: TK  
DATE: 3/14/20

**SITE DETAILS**

SITE PLAN PREPARED FOR  
**NANTUCKET SOUND SONS, LLC.**  
KEAR STREET  
Town of Yorktown  
Westchester County, NY

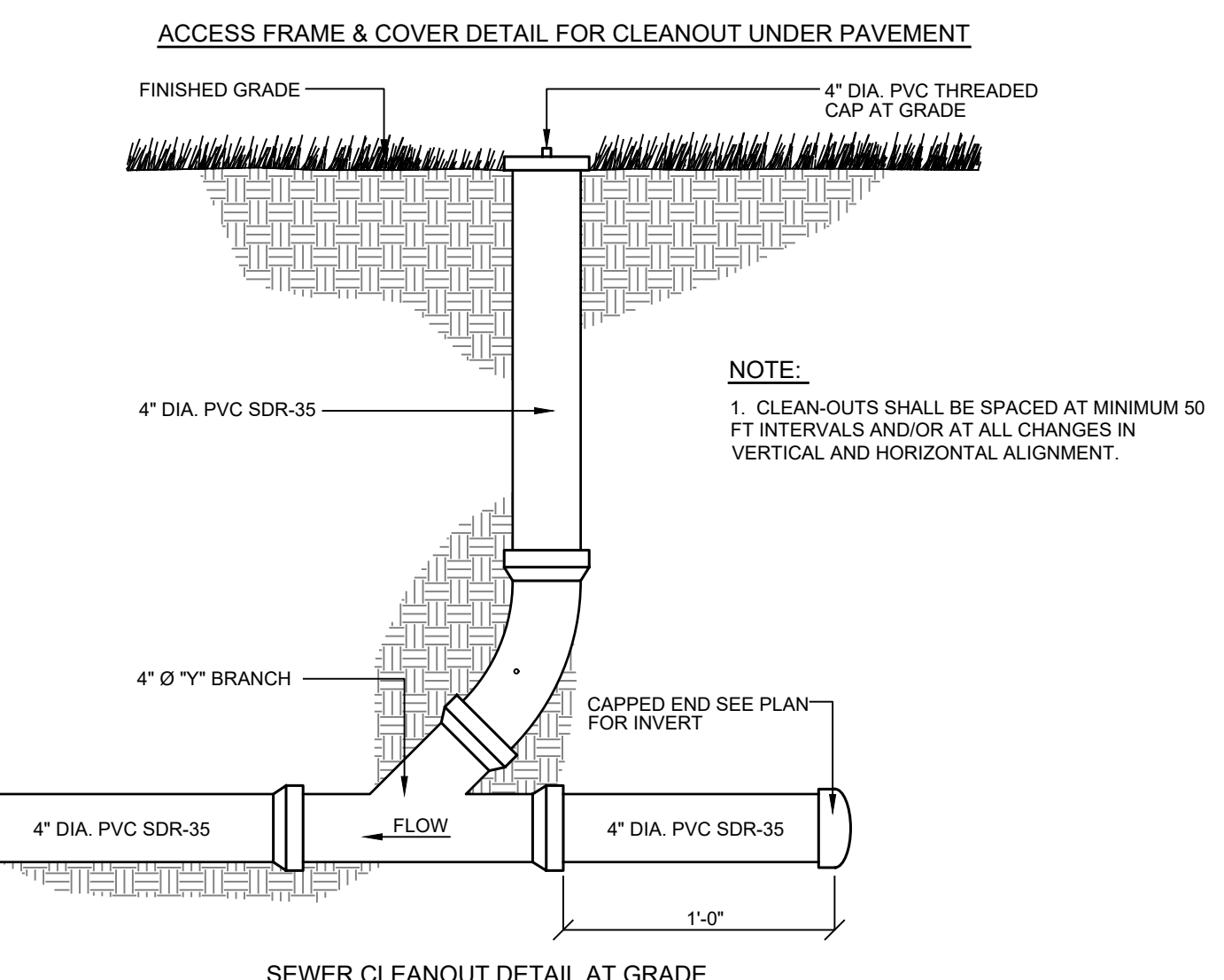
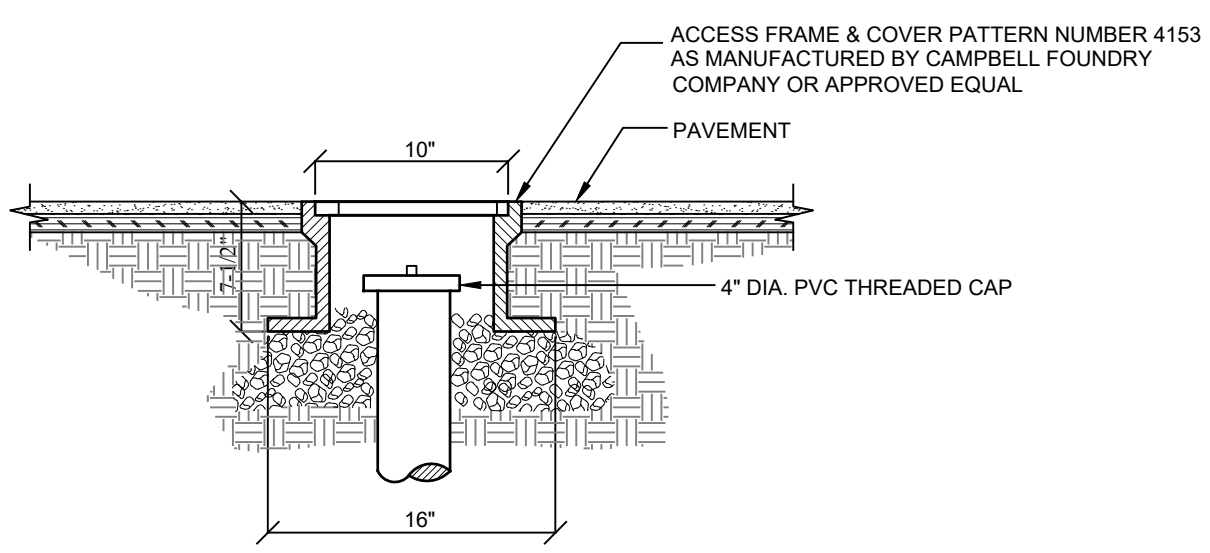
Sheet 9 of 12



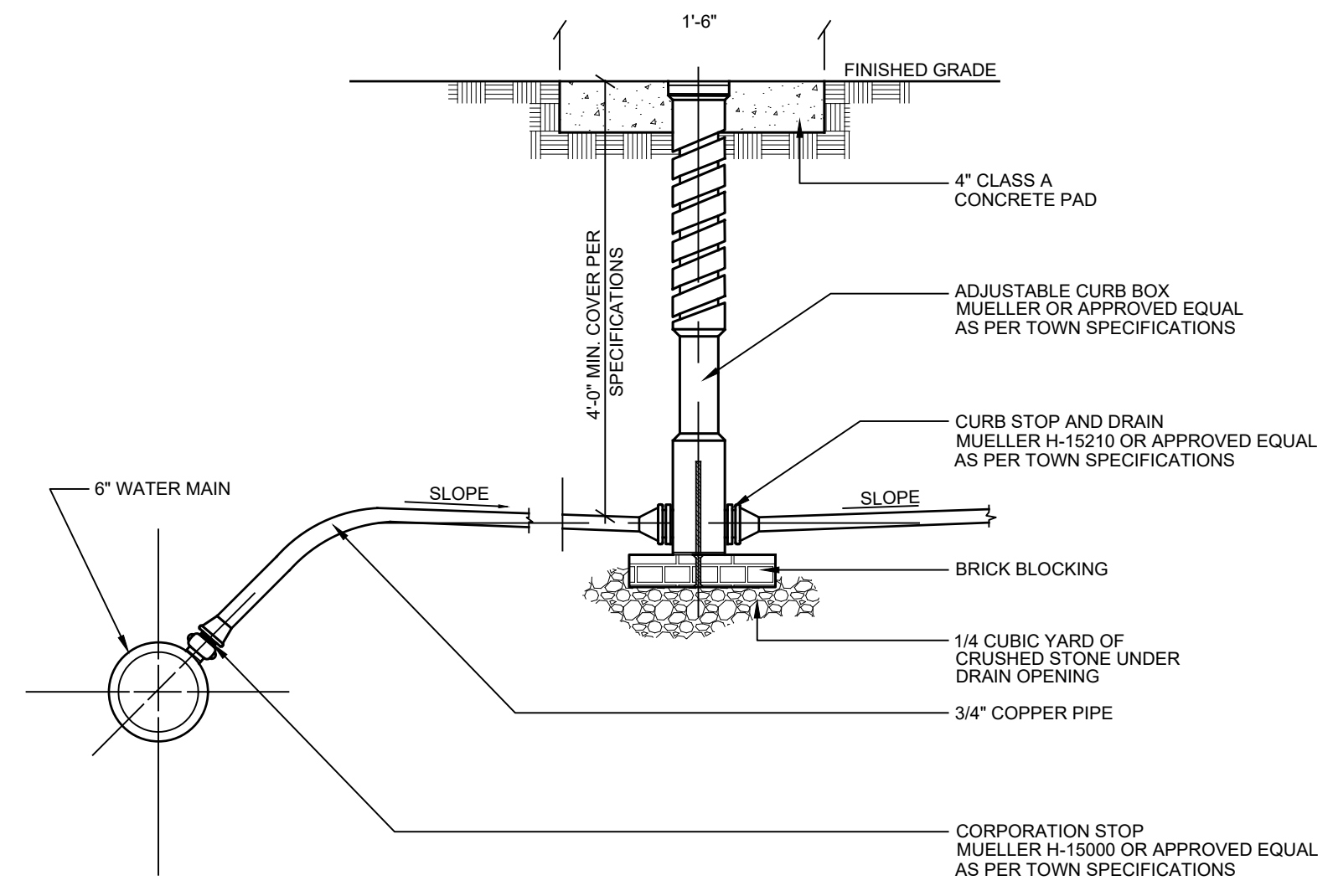


- NOTES:**
1. PROVIDE CLEANOUT AS REQUIRED (SEE DETAIL).
  2. CONTRACTOR TO FOLLOW MANUFACTURER'S INSTALLATION GUIDE.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PERSONS DURING CONSTRUCTION FROM HARM IN ACCORDANCE WITH ALL APPLICABLE CODES, RULES & REGULATIONS, STANDARDS AND GOOD PRACTICES.
  4. CONTRACTOR TO NOTIFY TOWN OF CORTLANDT 48 HOURS IN ADVANCE FOR TRENCH INSPECTION.
  5. ALL FITTINGS TO BE WHITE H.D. AS MANUFACTURED BY GPK PRODUCTS INC. OR PROVED EQUAL.
  6. FOR BACKFILLING REQUIREMENTS OF SEWER SERVICE SEE "SEWER MAIN/SEWER SERVICE TRENCH DETAIL".
  7. \*\*LOT 6-USE 6" PVC SDR 23 (1.0% MIN. PITCH)

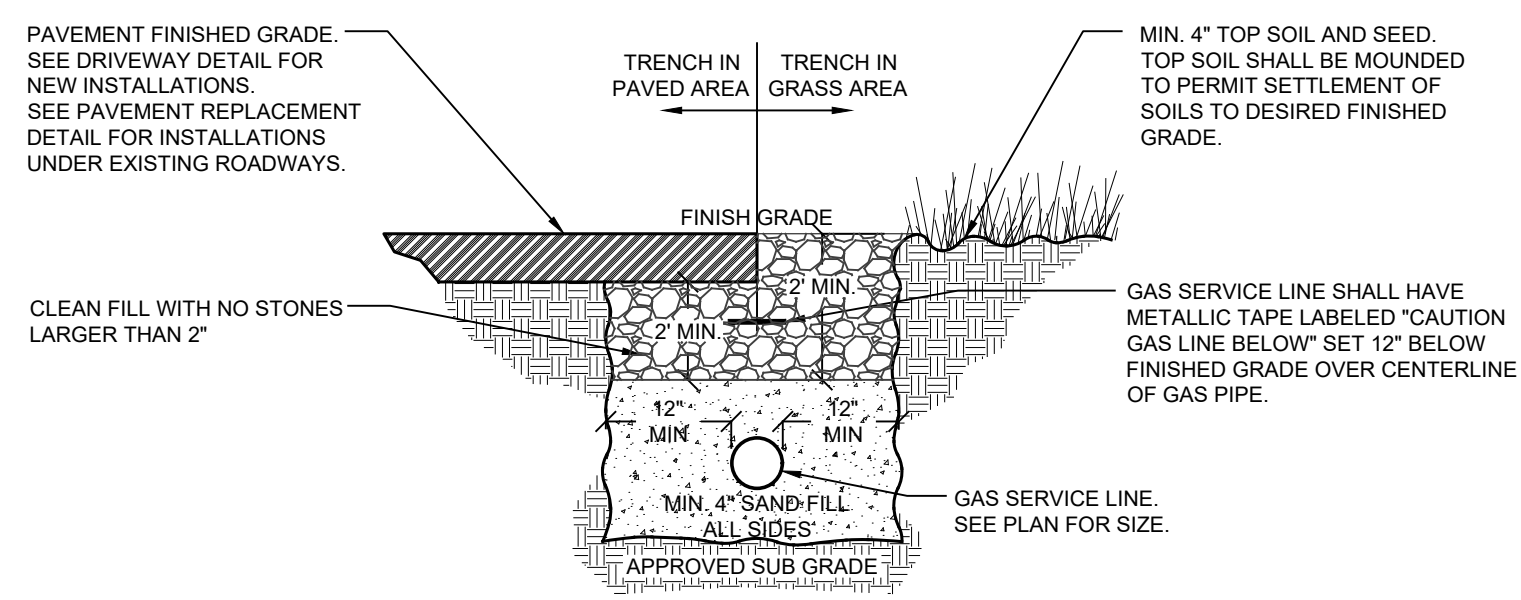
**S-1** SEWER CONNECTION TO PROPOSED MAIN-LINE DETAIL  
NOT TO SCALE



**S-2** GRAVITY SEWER CLEAN-OUT DETAIL  
NOT TO SCALE

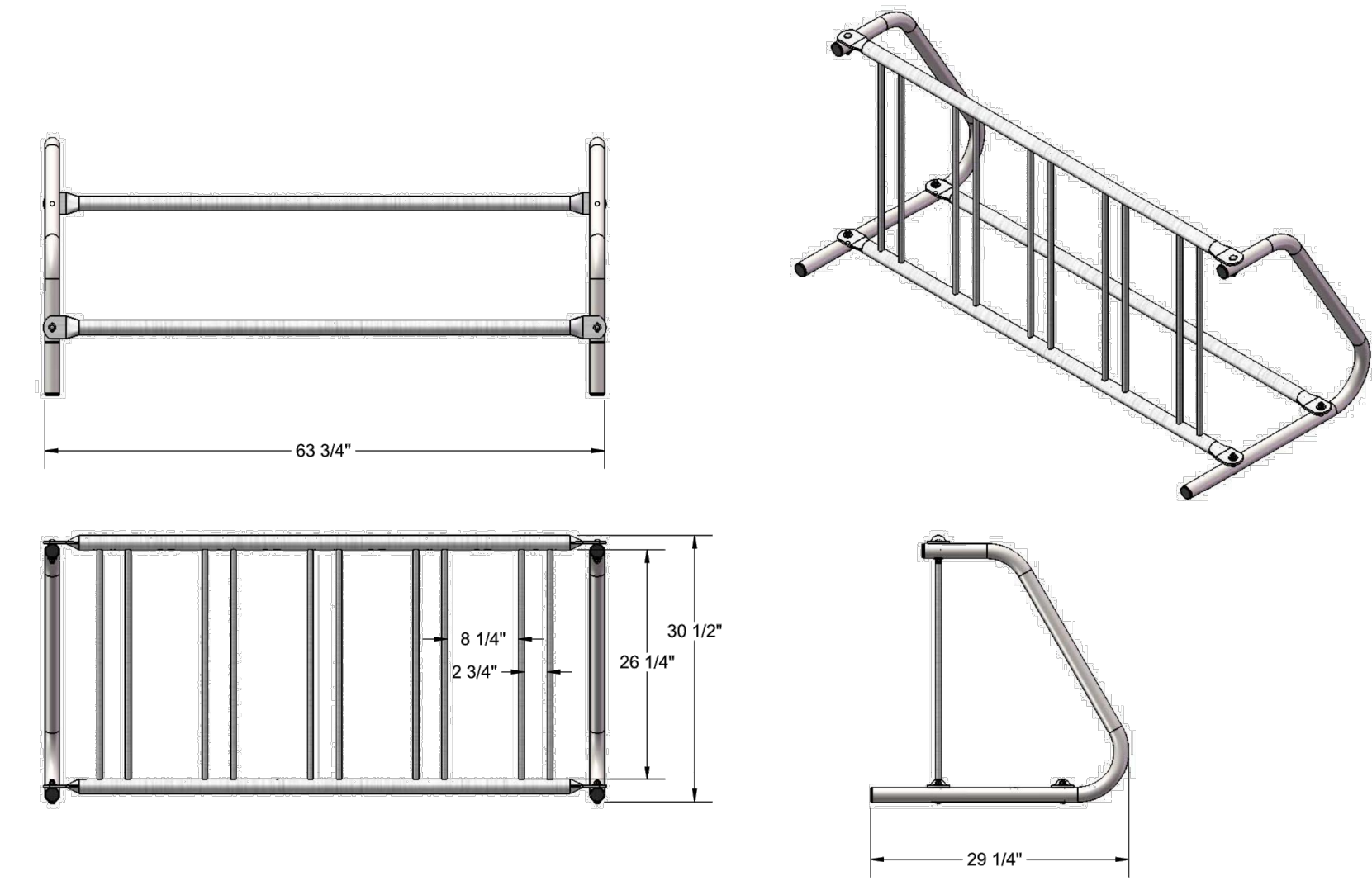


**W-1** WATER SERVICE CONNECTION DETAIL  
NOT TO SCALE

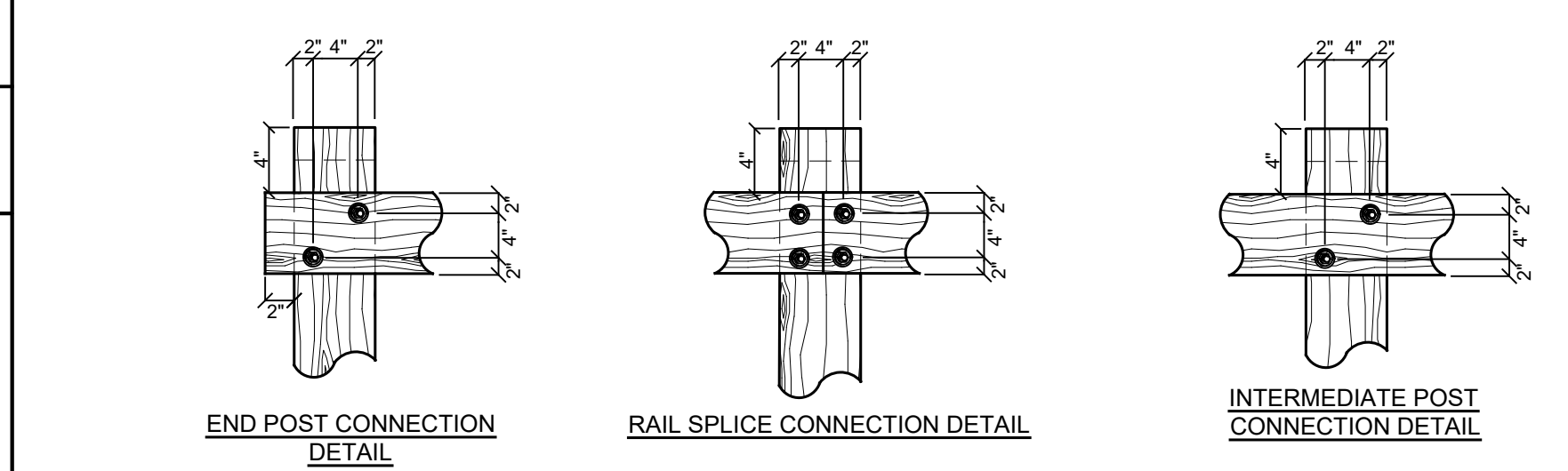
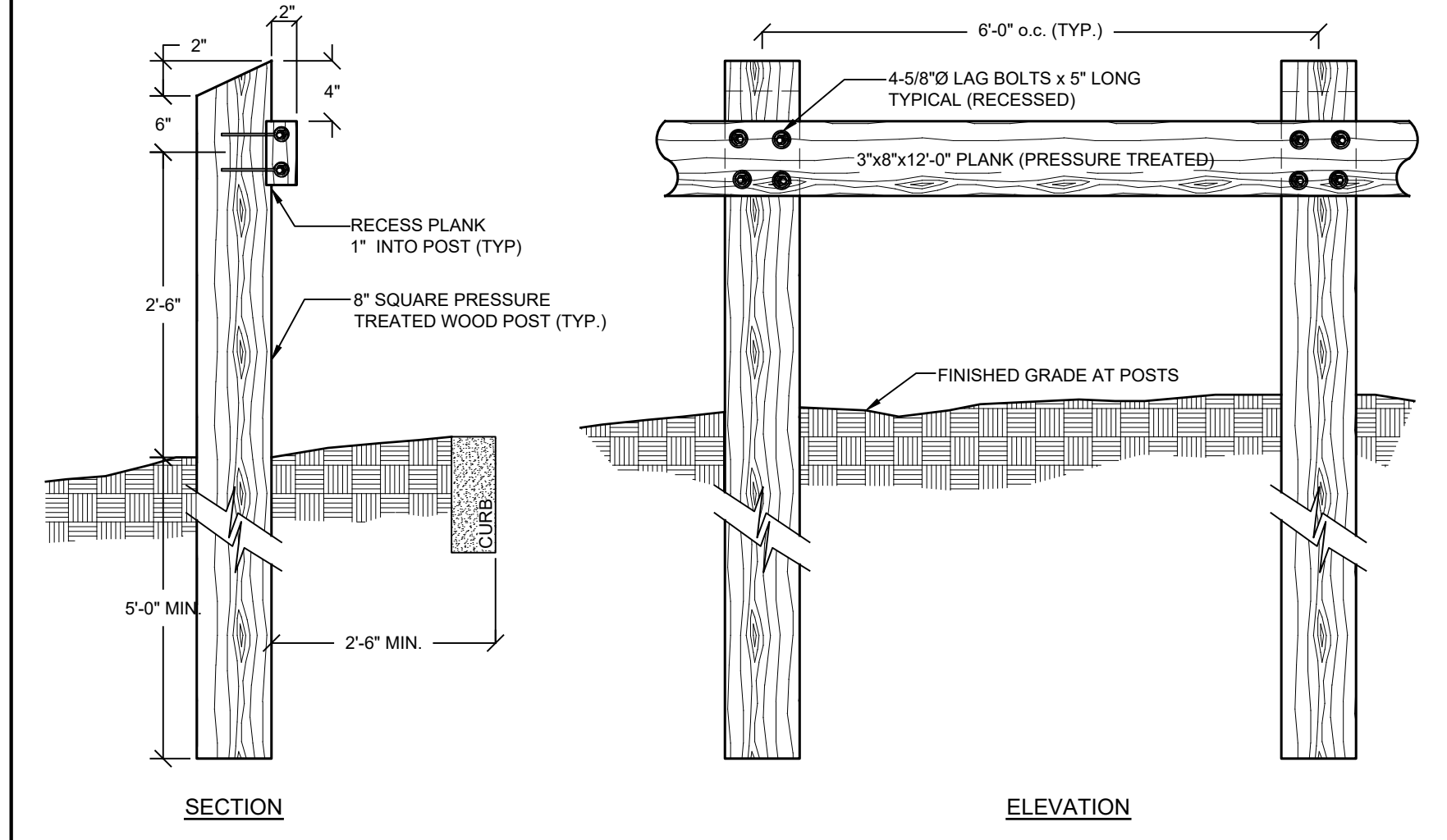


- NOTES:**
1. Contractor shall coordinate installation with utility owner. All materials and installation procedures shall meet or exceed minimal requirements of the utility owner.
  2. Pipe shall be laid and connected in the bedding which shall consist of:
    - A. Compacted existing subsoil when laid above ground water or;
    - B. 3/4" crushed stone when laid below ground water.
  3. If subsoil is determined to be unsuitable by the engineer, all unsuitable material shall be removed for at least 2'-6" below the pipe invert or twice the pipe diameter, whichever is greater, and replaced with compacted bedding material.

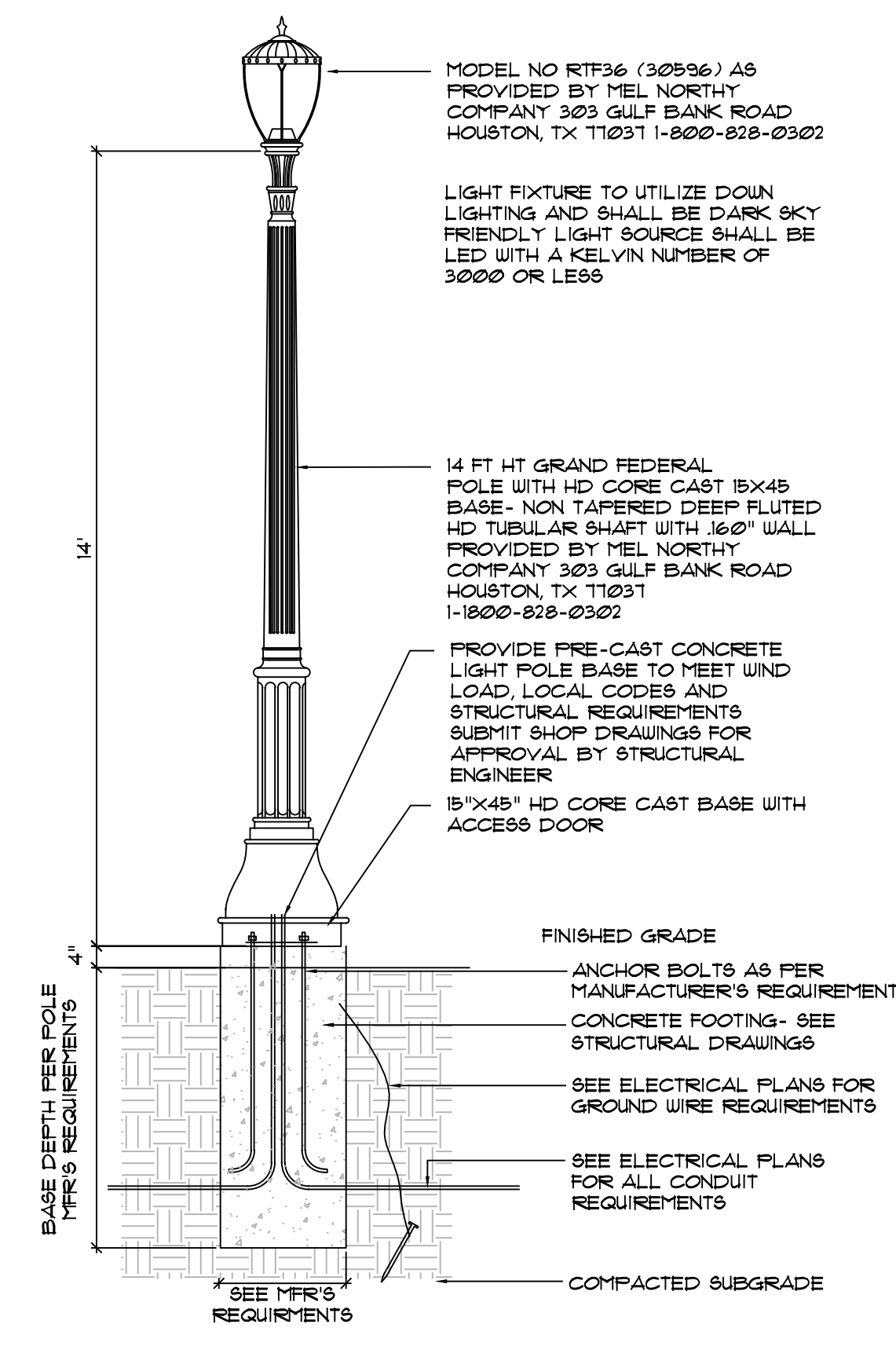
**G-1** GAS SERVICE BEDDING DETAIL  
NOT TO SCALE



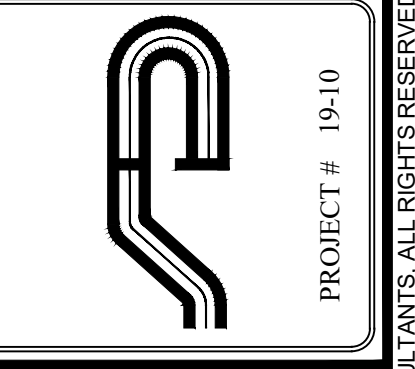
**R-7** BIKE RACK DETAIL  
NOT TO SCALE



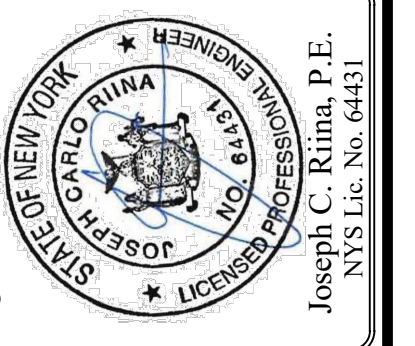
**R-6** TIMBER GUARDRAIL DETAIL  
NOT TO SCALE



**L-1** LIGHT POLE DETAIL  
NOT TO SCALE



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SCALE:	NTS
DRAWN BY:	TK
DATE:	3/14/20

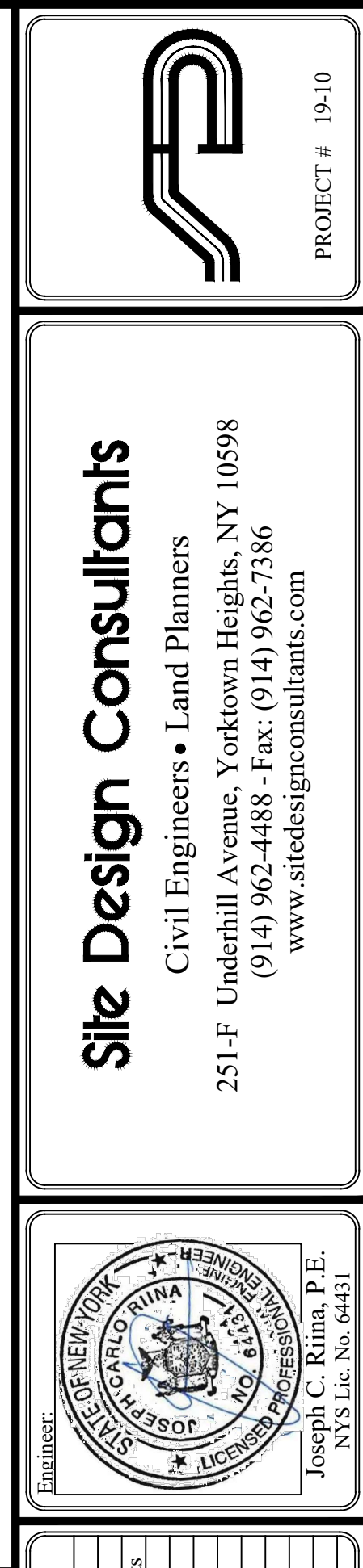
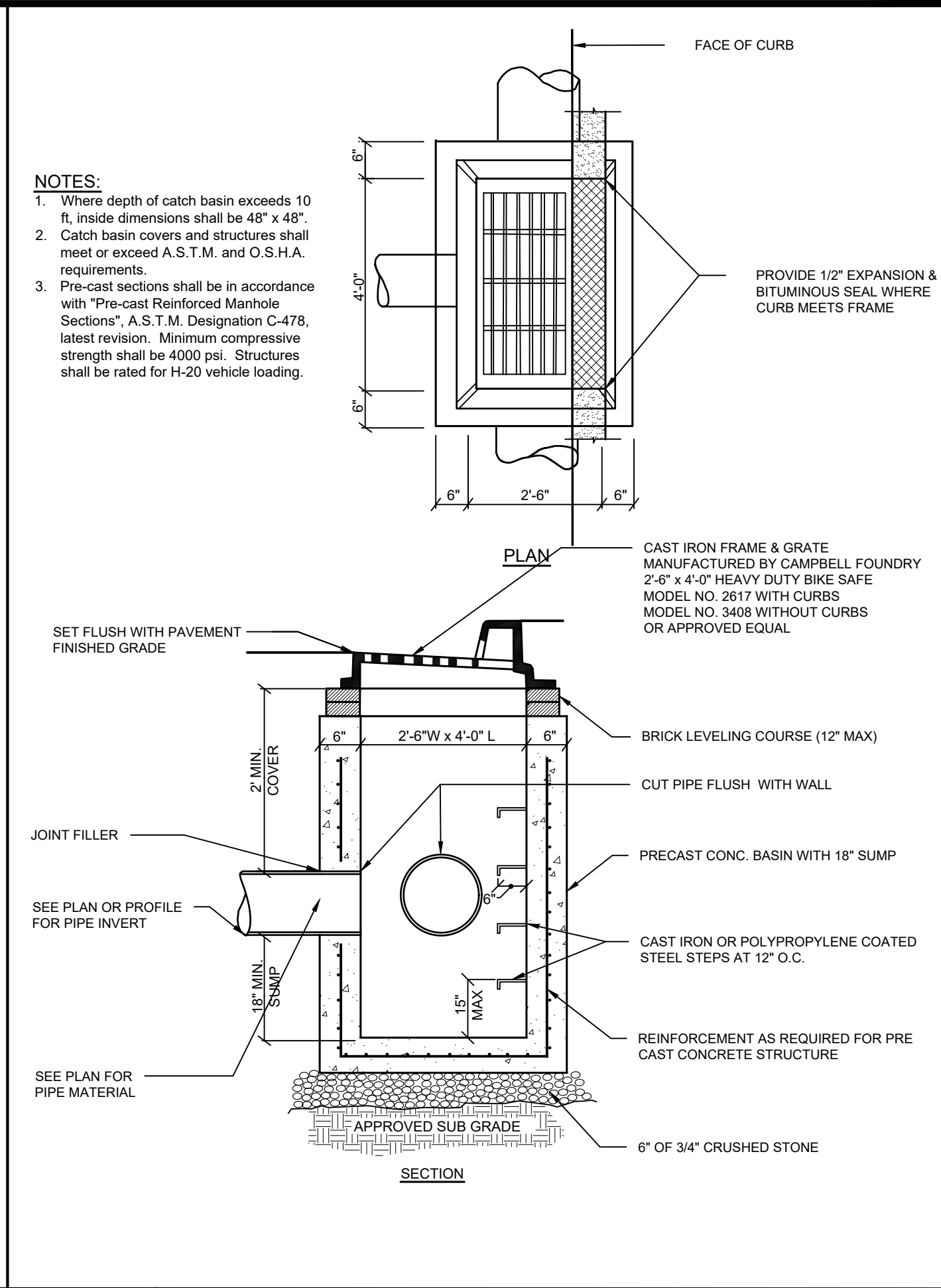
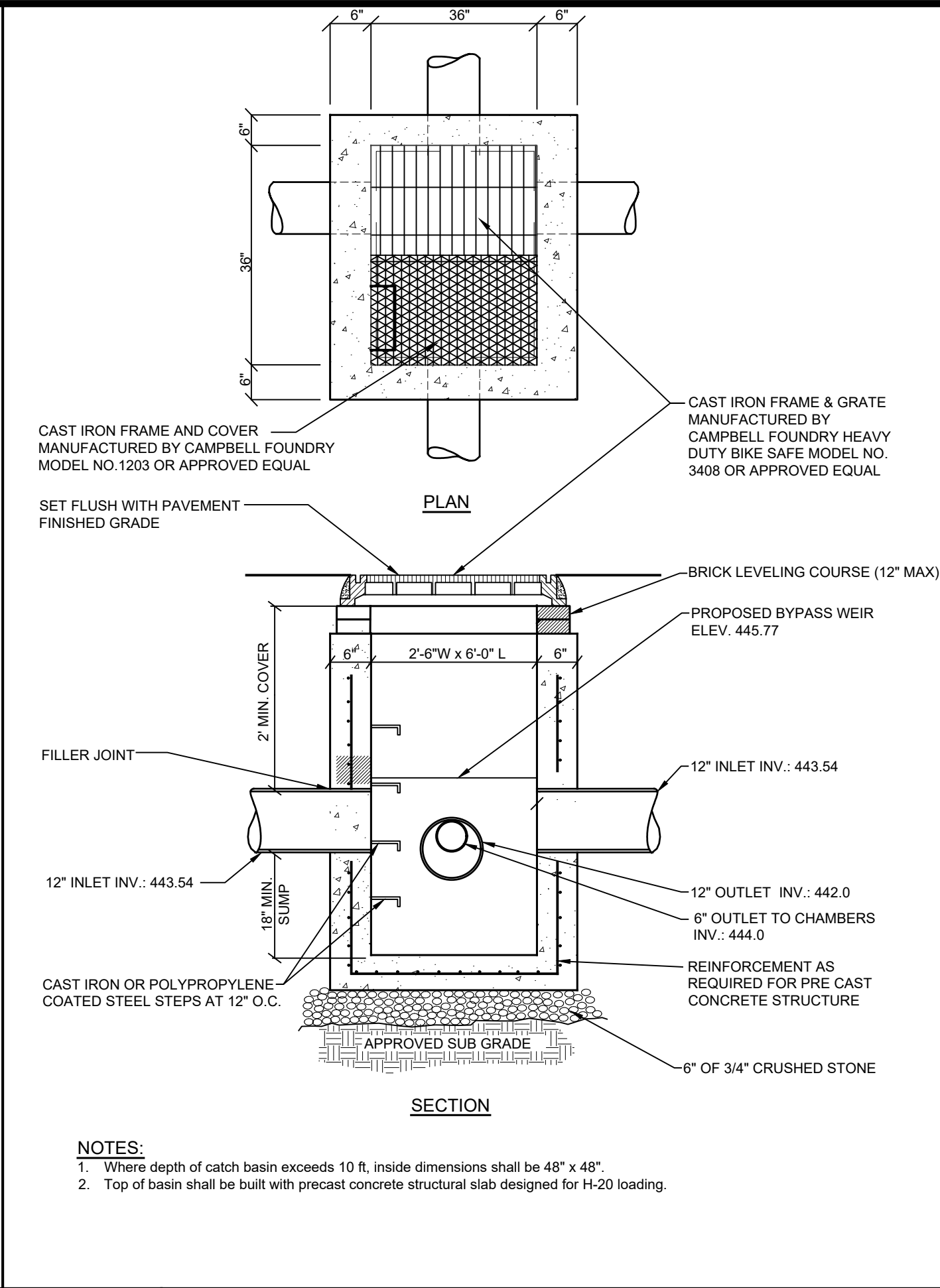
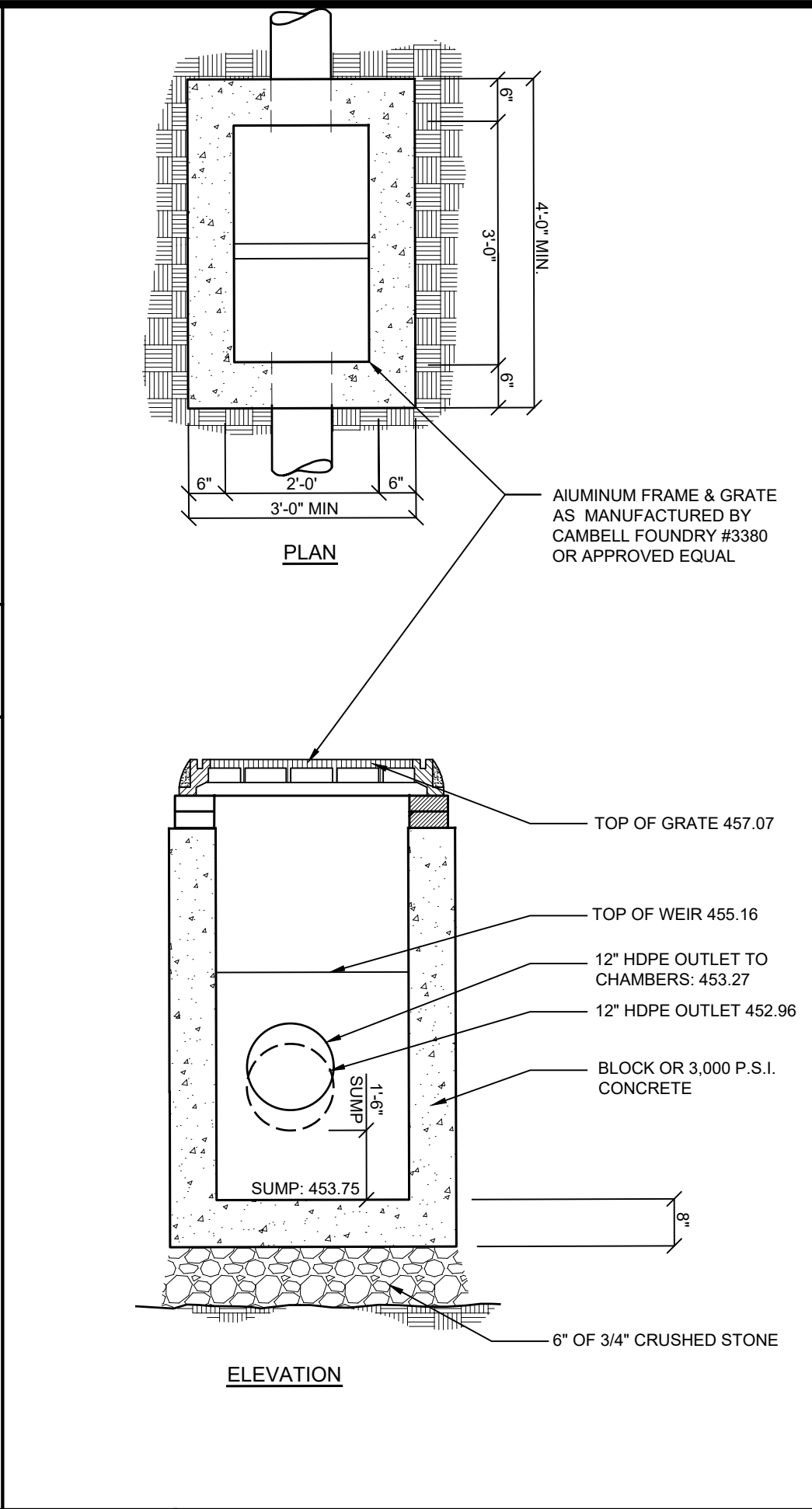
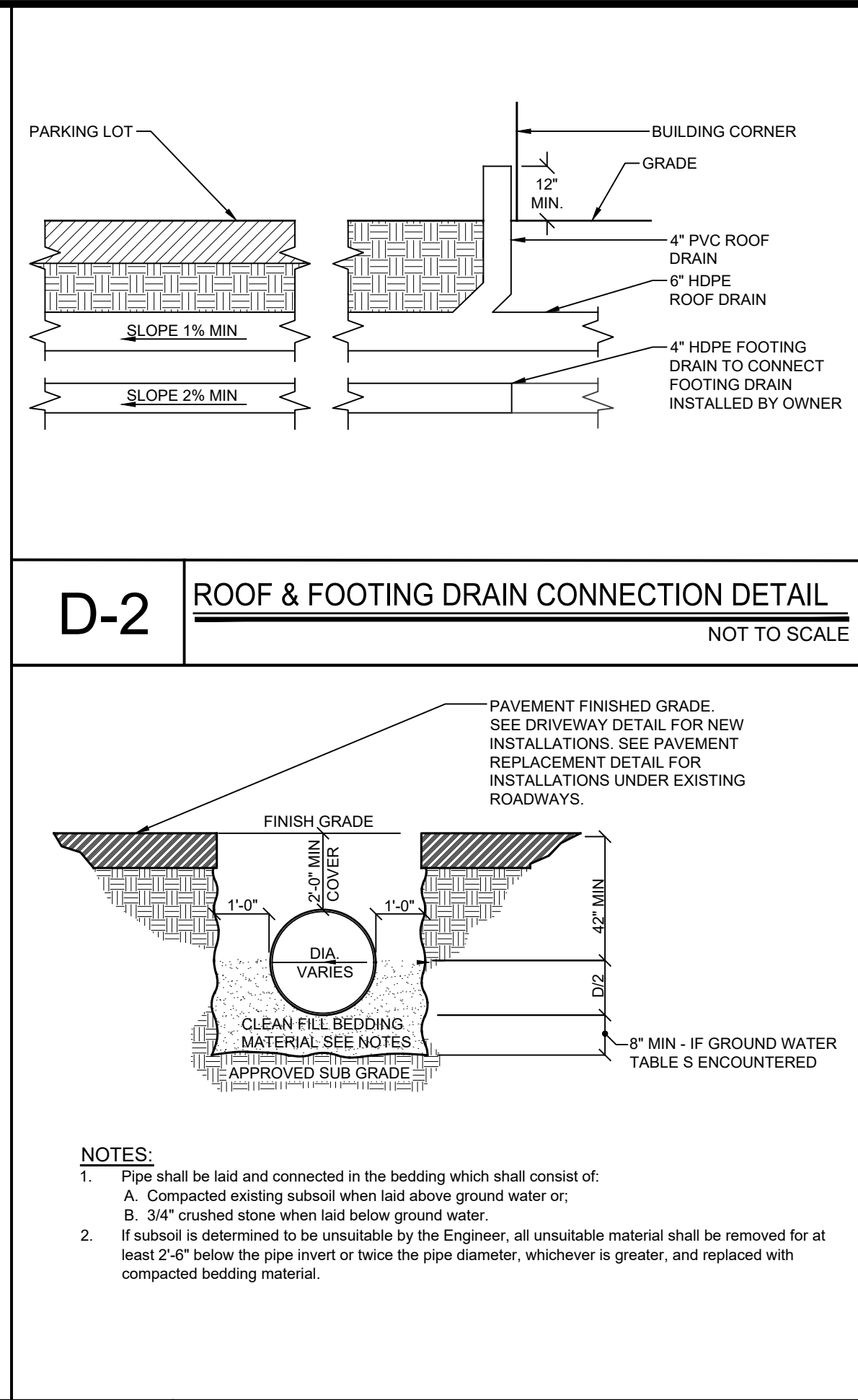
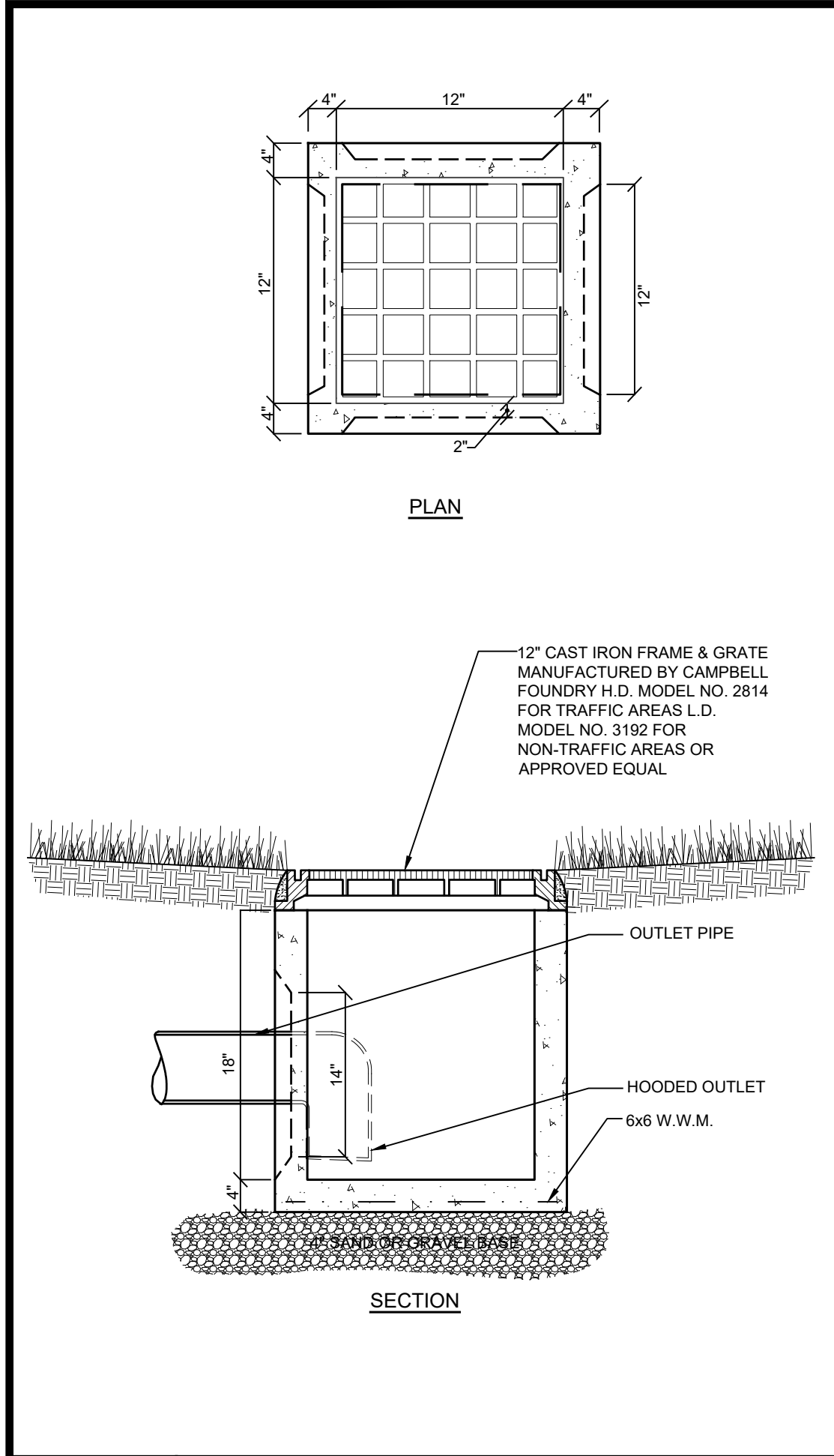
**SITE DETAILS 2**

SITE PLAN PREPARED FOR  
**NANTUCKET SOUND SONS, LLC.**  
KEAR STREET  
Westchester County, NY  
Town of Yorktown

E:\2018\18-10-NANTUCKET SOUND, LLC - MURPHY ENGINEERING\CAD\CAD-18-10-NANTUCKET SOUND, LLC - MURPHY ENGINEERING\DETAILS & 25-20.DWG

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**D-1 PRECAST DRAIN INLET DETAIL**  
NOT TO SCALE

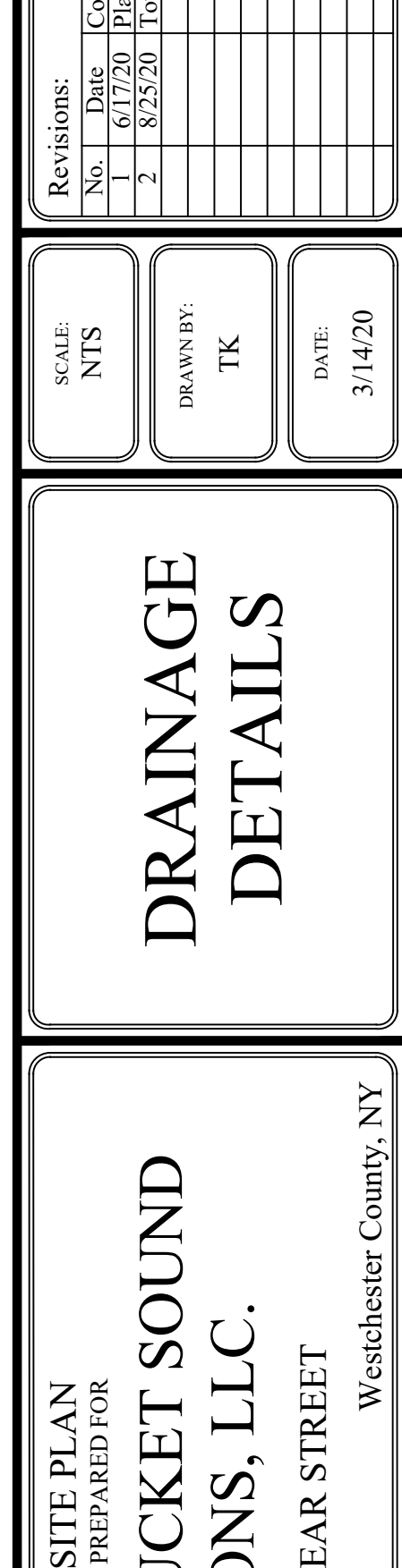
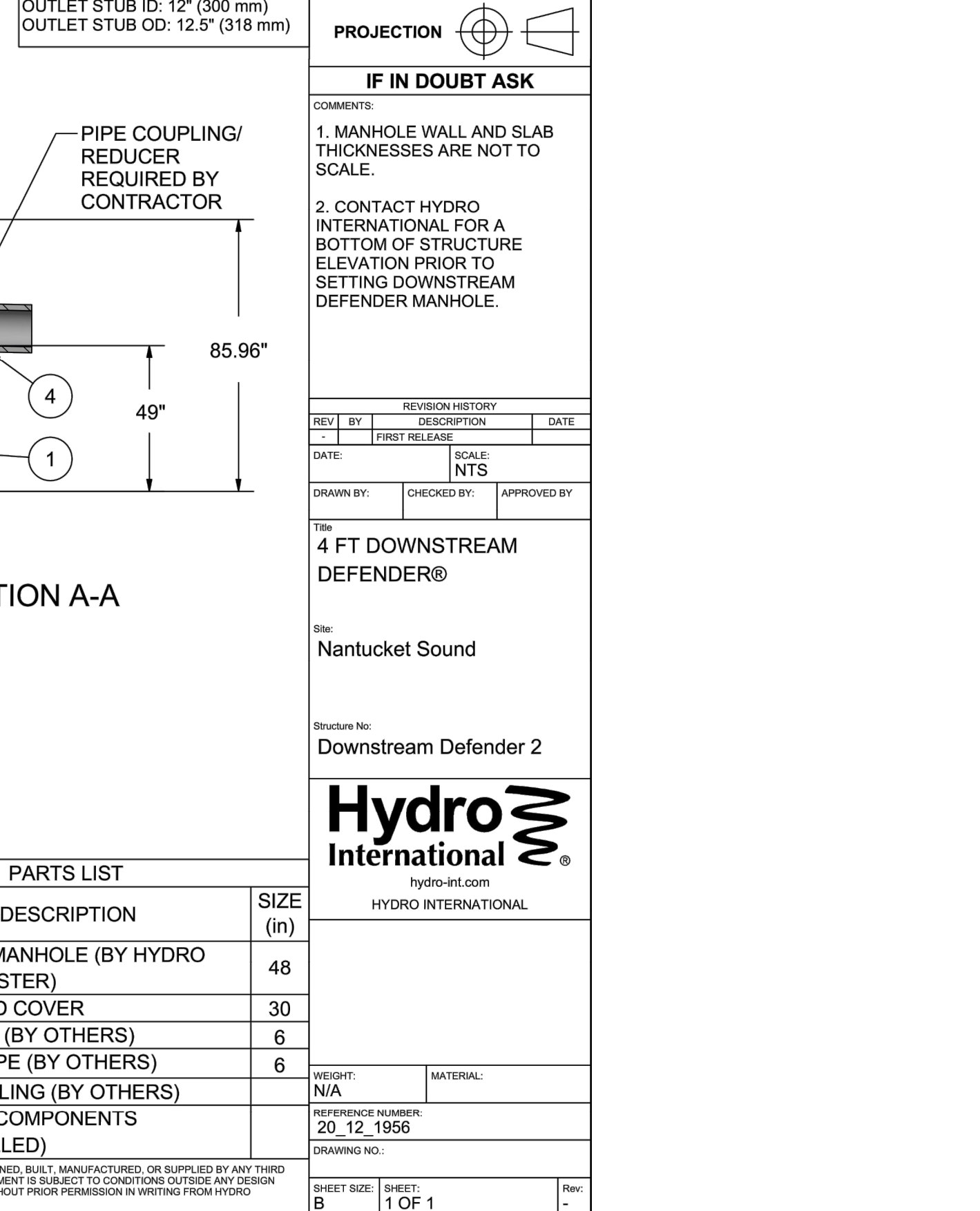
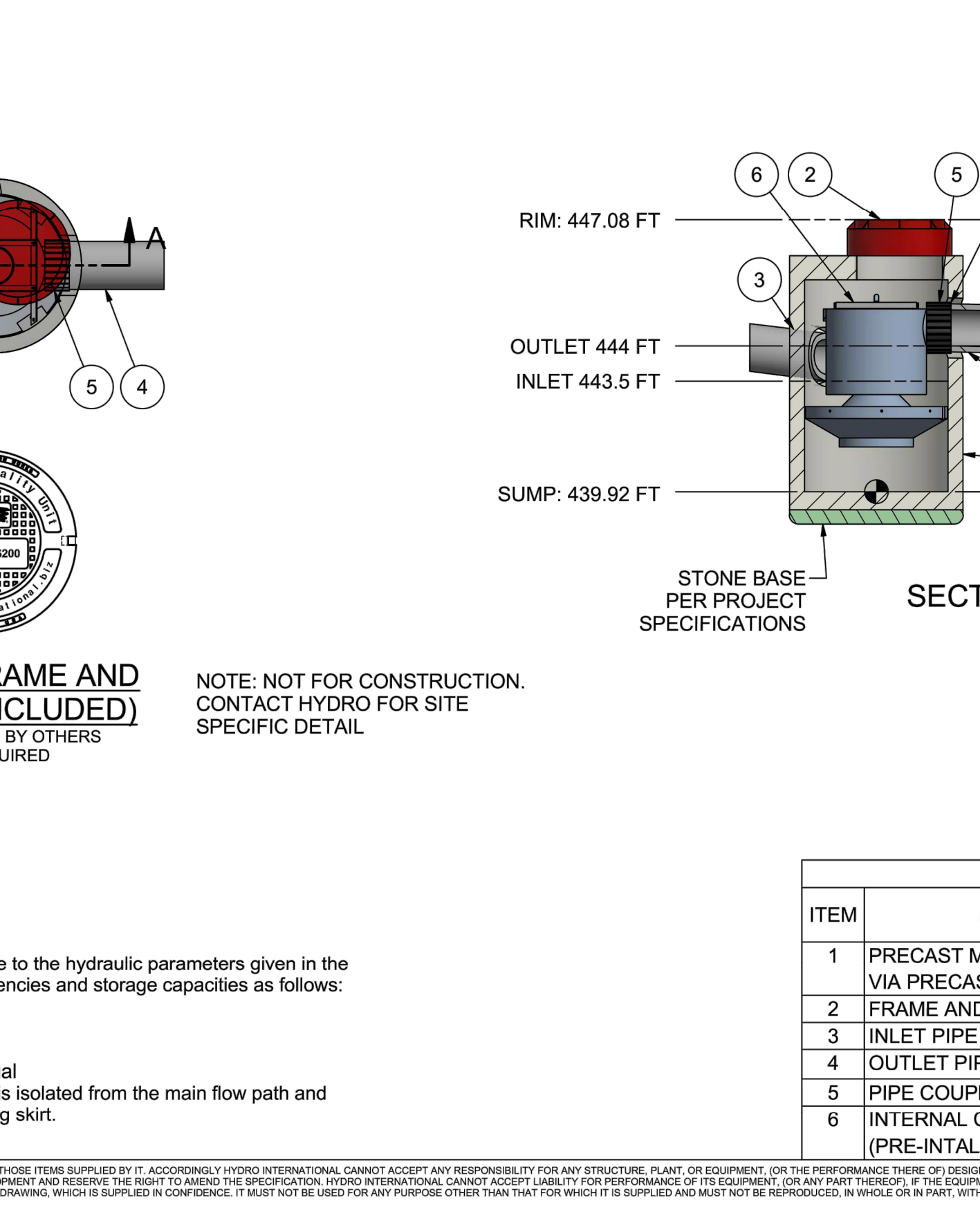
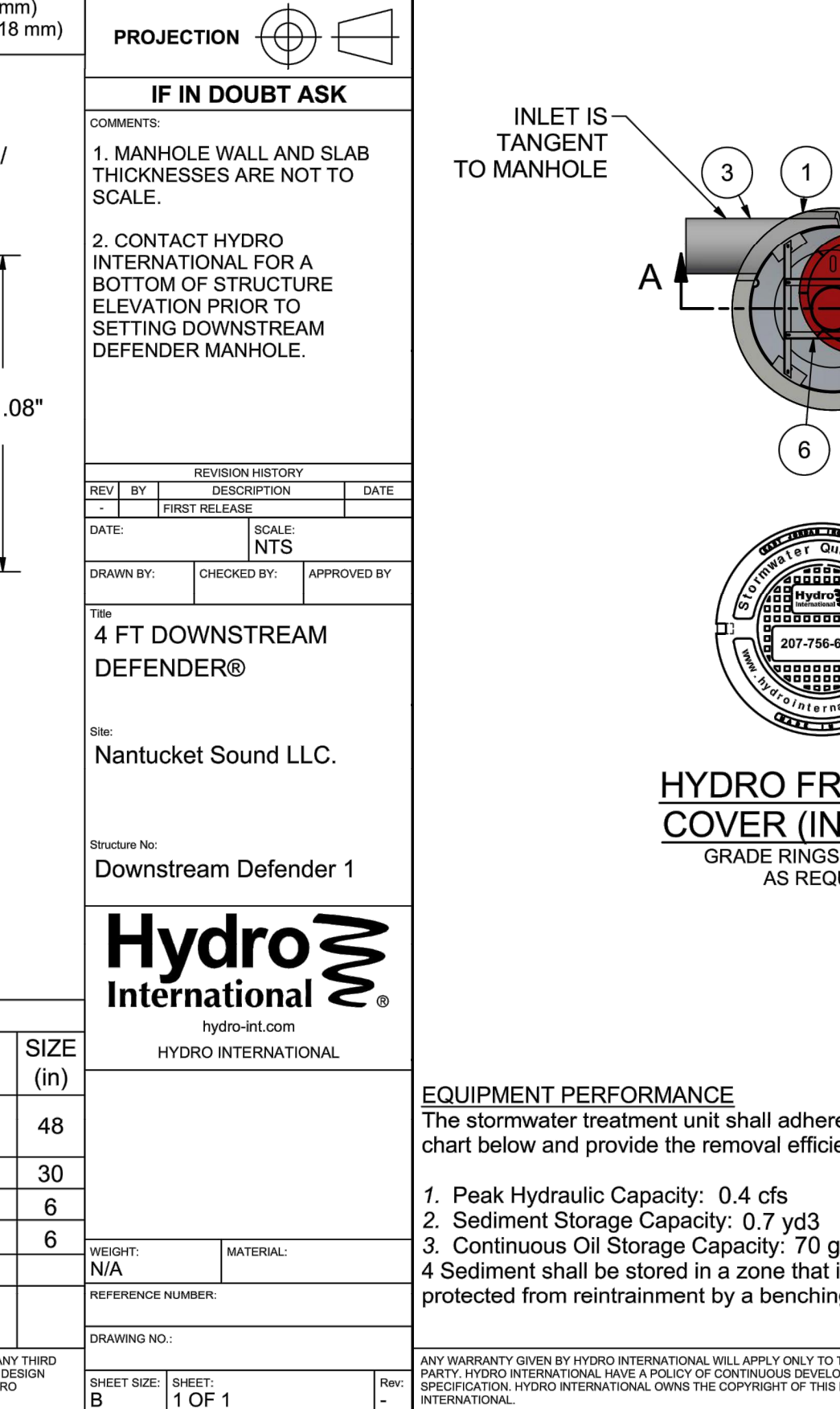
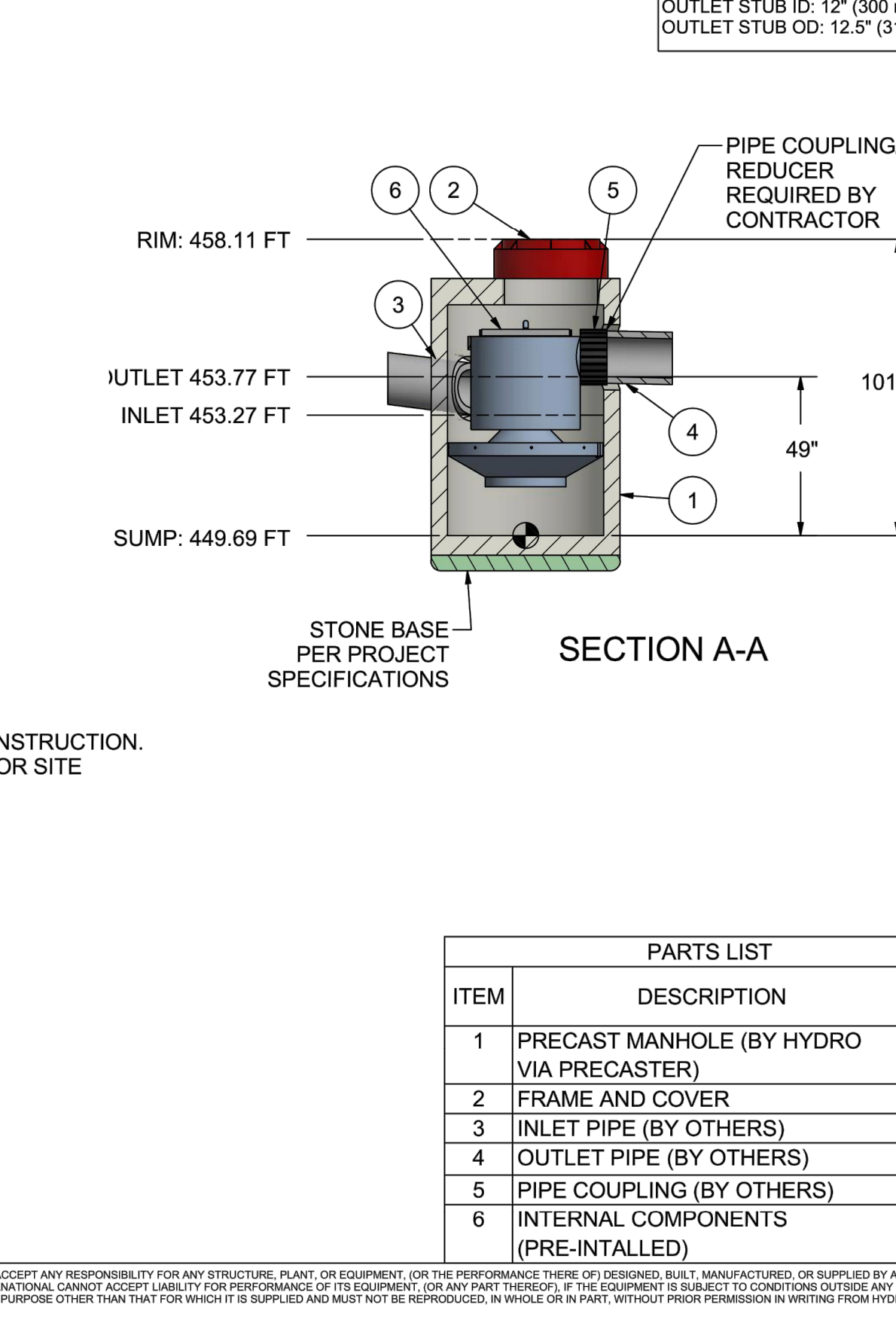
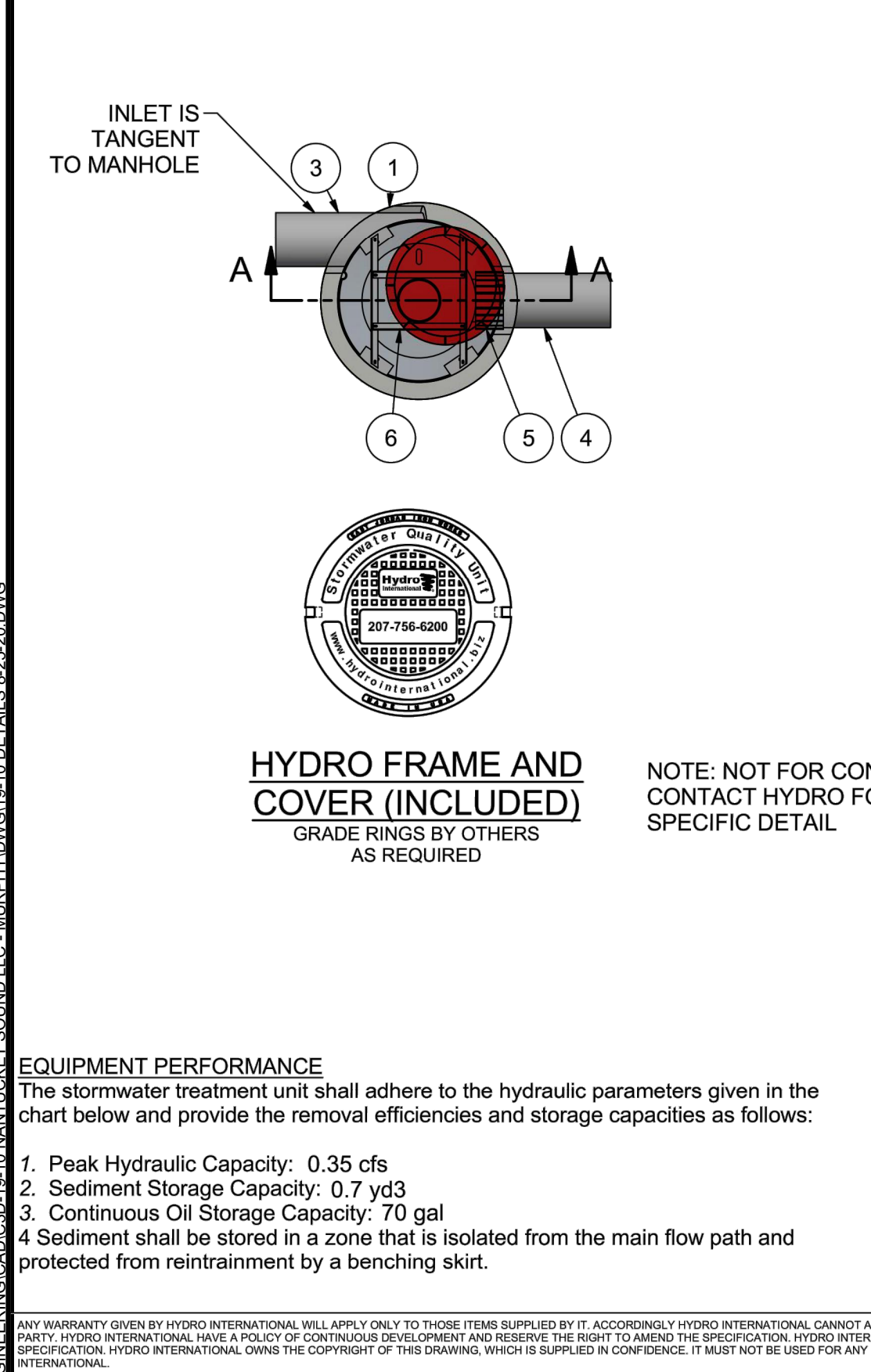
**D-2 ROOF & FOOTING DRAIN CONNECTION DETAIL**  
NOT TO SCALE

**D-3 STORM PIPE BEDDING DETAIL**  
NOT TO SCALE

**D-4 BYPASS STRUCTURE 1 DETAIL**  
NOT TO SCALE

**D-5 BYPASS STRUCTURE 2 DETAIL**  
NOT TO SCALE

**D-6 TYPICAL CATCH BASIN DETAIL**  
NOT TO SCALE



**EQUIPMENT PERFORMANCE**  
The stormwater treatment unit shall adhere to the hydraulic parameters given in the chart below and provide the removal efficiencies and storage capacities as follows:

1. Peak Hydraulic Capacity: 0.35 cfs
2. Sediment Storage Capacity: 0.7 yd<sup>3</sup>
3. Continuous Oil Storage Capacity: 70 gal
4. Sediment shall be stored in a zone that is isolated from the main flow path and protected from reentrainment by a benching skirt.

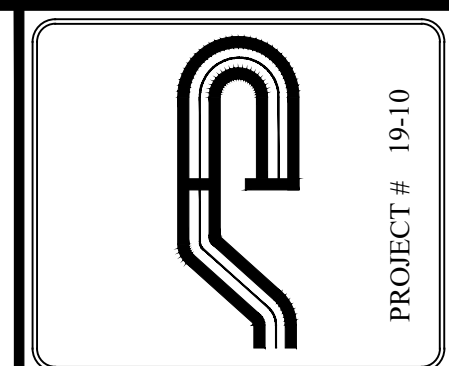
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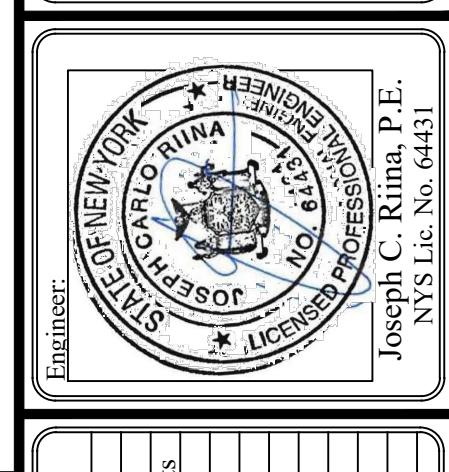
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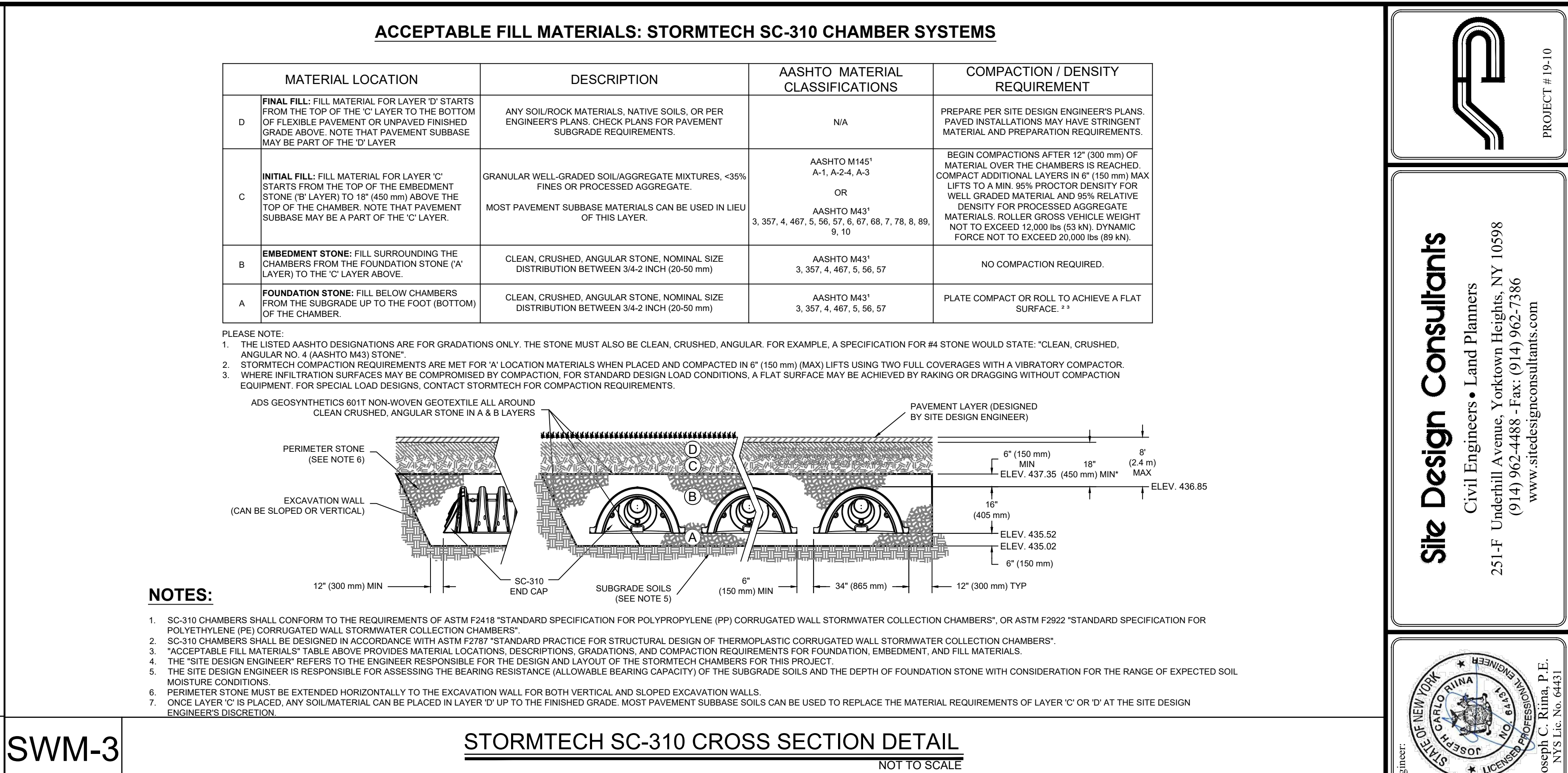
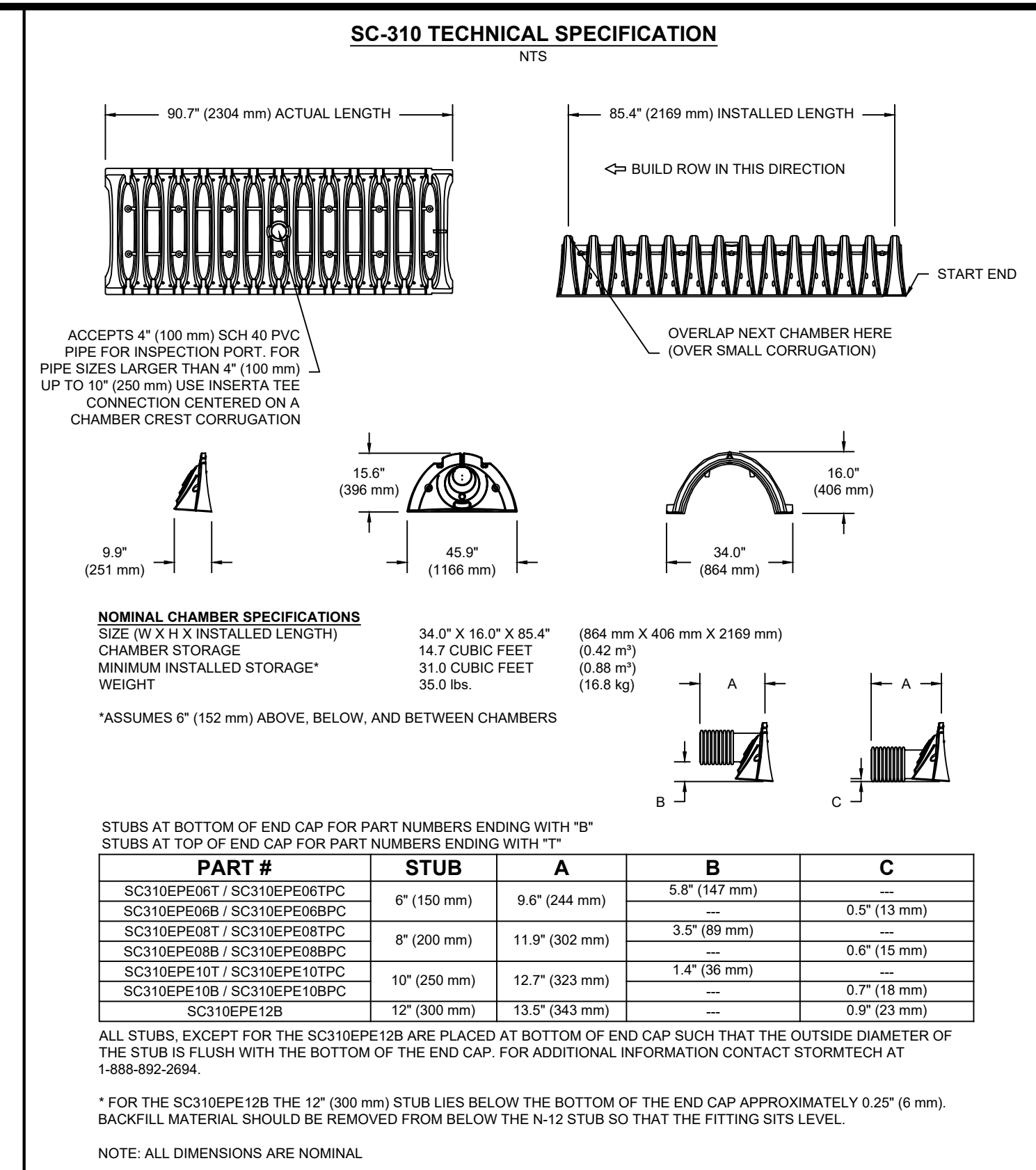
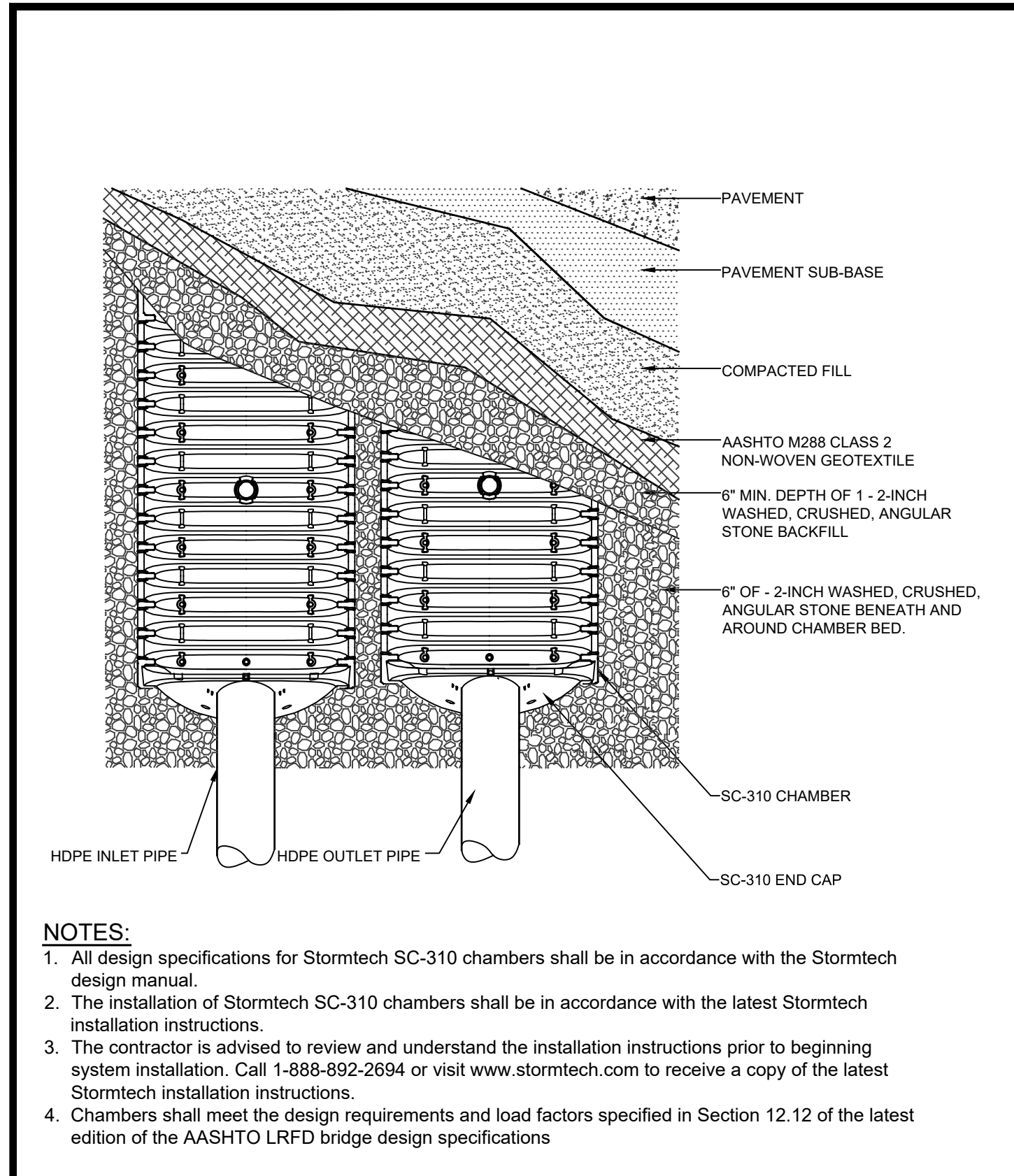
Revisions:	No.	Date	Comments
	1	6/17/20	Plan Revisions
	2	8/25/20	Toward Comments

SCALE: NTS  
DRAWN BY: TK  
DATE: 3/14/20

**DRAINAGE DETAILS**

**SITE PLAN PREPARED FOR**  
**NANTUCKET SOUND SONS, LLC.**  
KEAR STREET  
Town of Yorktown  
Westchester County, NY

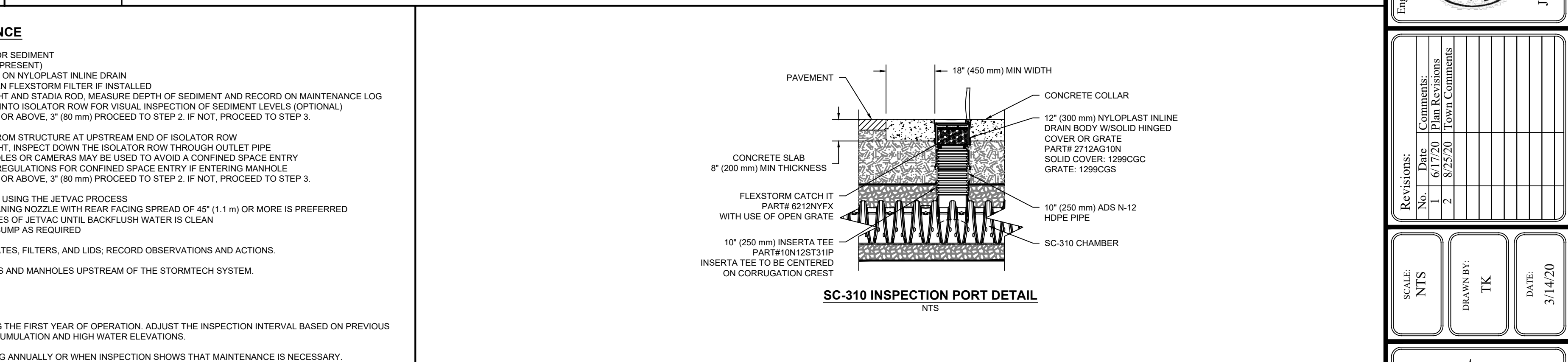
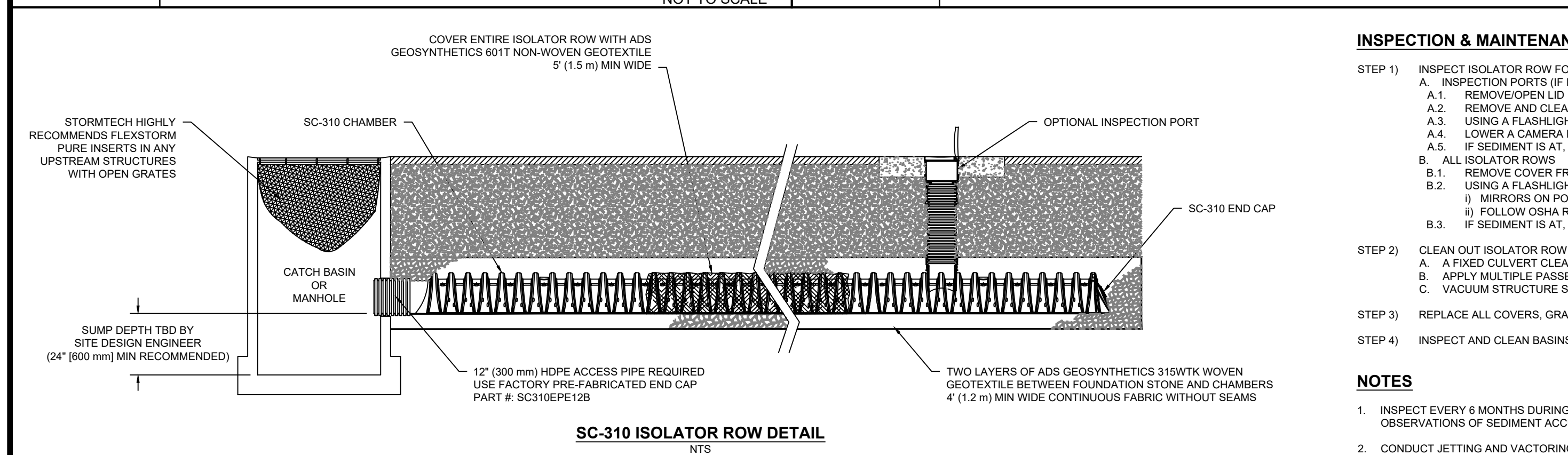




**SWM-1** STORMTECH SC-310 CHAMBER SYSTEM PLAN VIEW DETAIL NOT TO SCALE

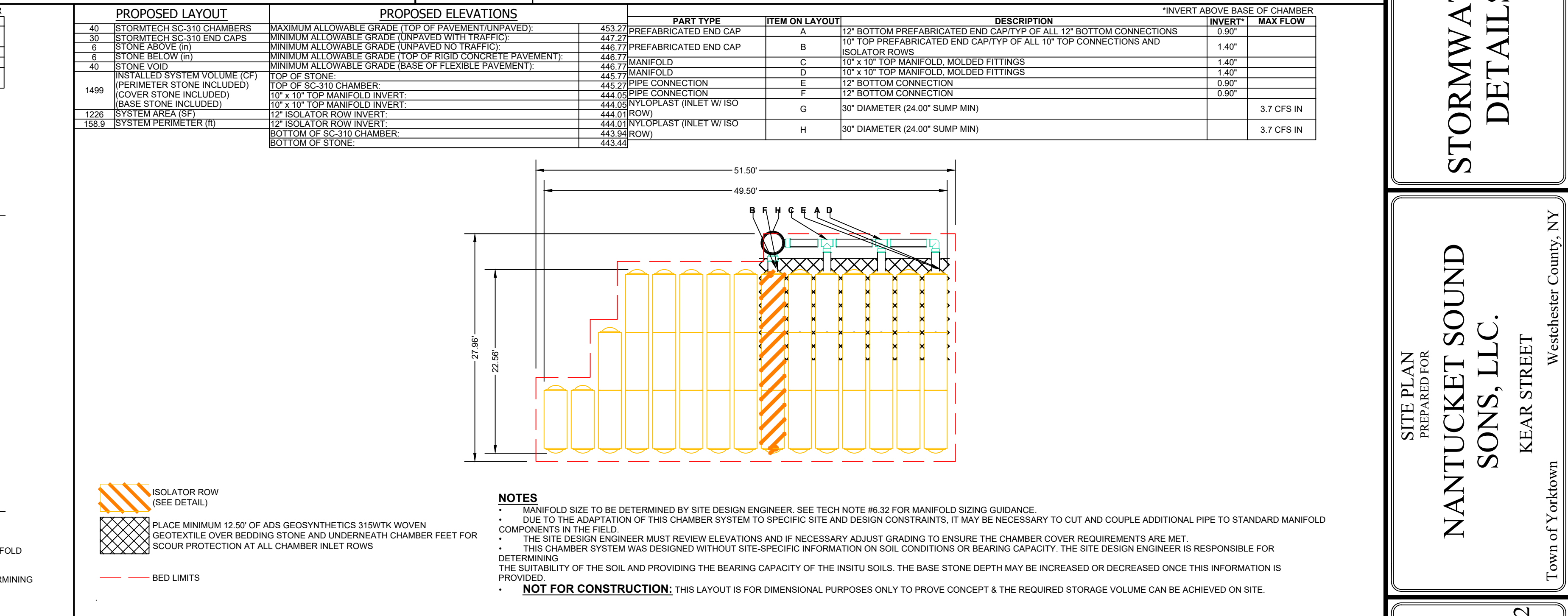
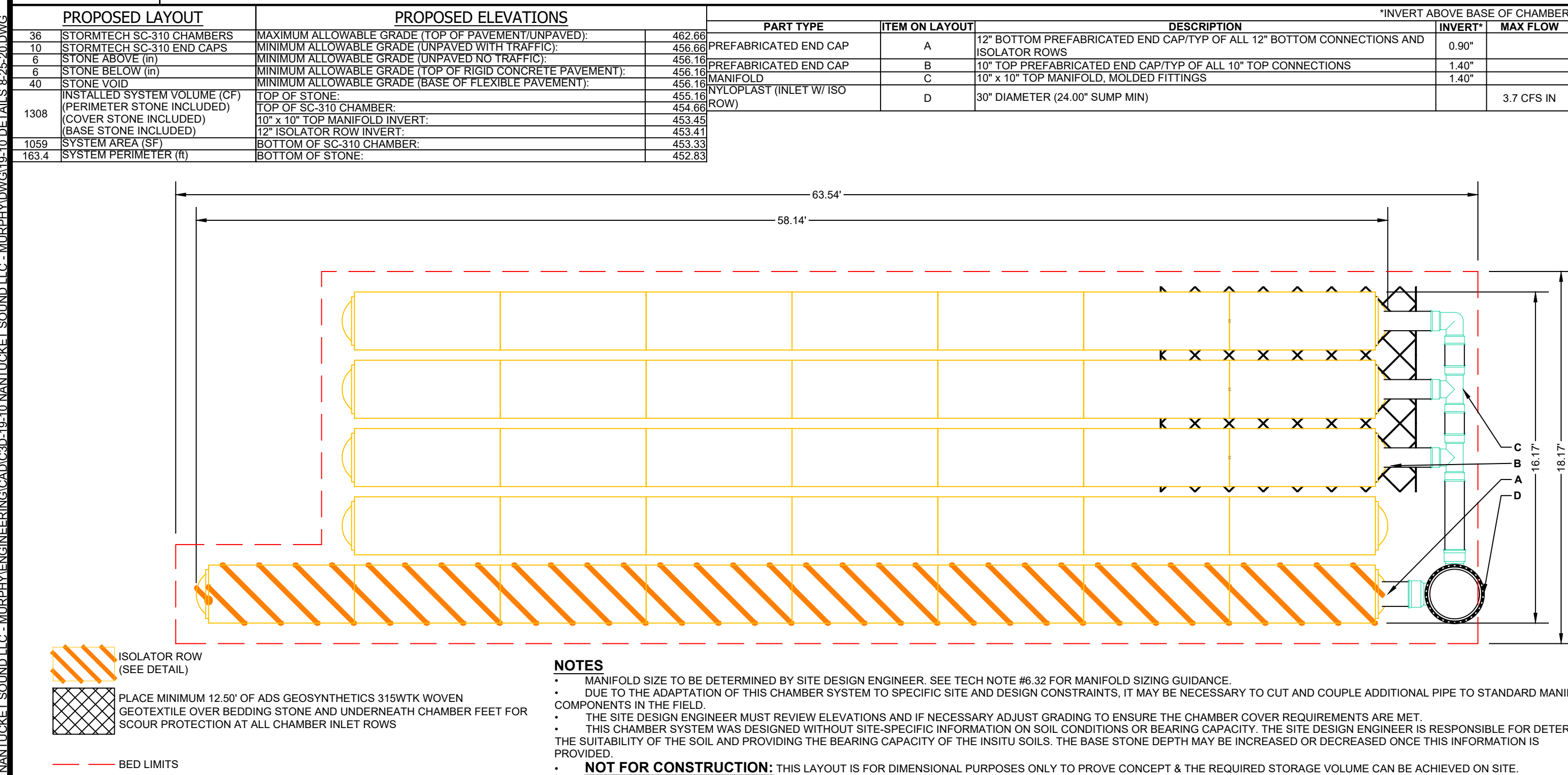
**SWM-2** STORMTECH SC-310 CHAMBER DETAIL NOT TO SCALE

**SWM-3** STORMTECH SC-310 CROSS SECTION DETAIL NOT TO SCALE



**SWM-4** STORMTECH SC-310 CHAMBER DETENTION ISOLATOR ROW DETAIL NOT TO SCALE

**SWM-5** STORMTECH FLUSING/INSPECTION PORT DETAIL NOT TO SCALE



**SWM-4** STORMTECH SC-310 CHAMBER DETENTION ISOLATOR ROW DETAIL NOT TO SCALE

**SWM-4** STORMTECH SC-310 CHAMBER DETENTION ISOLATOR ROW DETAIL NOT TO SCALE

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Project # 19-10

Engineer: [Signature]

Revisions:

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DATE: 3/14/20

**STORMWATER DETAILS**

**NANTUCKET SOUND SONS, LLC.**  
KEAR STREET  
Town of Yorktown  
Westchester County, NY

Sheet 12 of 12





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 Kear Street  
 Yorktown Heights, New York 10516  
 S-B-L: 37-12-2-86  
 Town of Yorktown - Westchester County

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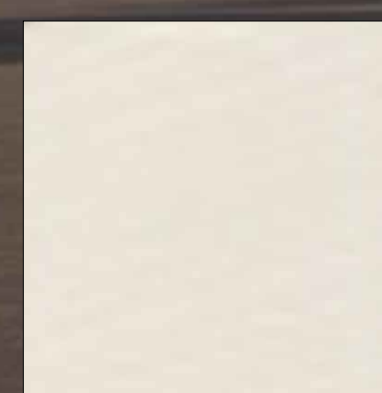
Date: August 25, 2020

Revisions:

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JAMES HARDIE  
 "HEATHERED MOSS"  
 SIDING



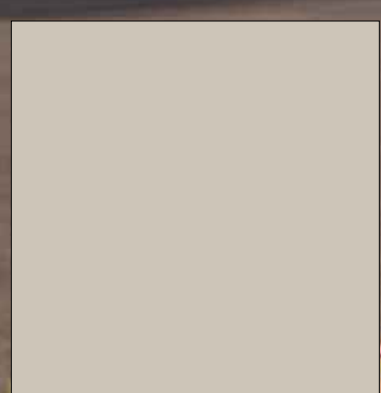
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 "NAVAJO BEIGE"  
 TRIM



BENJAMIN MOORE HC-166  
 "KENDALL CHARCOAL"  
 STOREFRONT TRIM



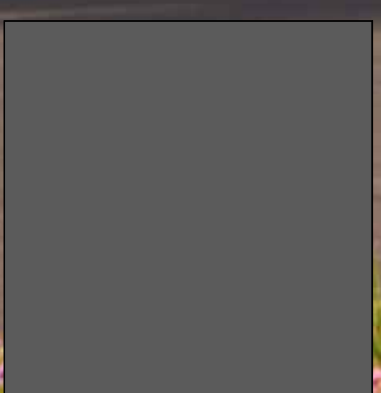
BENJAMIN MOORE  
 HC-168 "CHELSEA GREY"  
 PANEL MOULDING



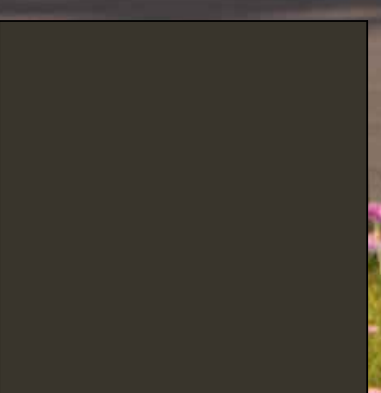
BENJAMIN MOORE  
 HC-175 "REVERE PEWTER"  
 STOREFRONT PANELS



TAMKO  
 "VIRGINIA SLATE"  
 ROOF SHINGLES



MBCI  
 "CHARCOAL GRAY"  
 METAL ROOFING



MARVIN  
 "BRONZE"  
 WINDOWS





**KEAR STREET BUILDING**

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Town of Yorktown - Westchester County

**FOR PLANNING BOARD REVIEW & APPROVAL**

Date: August 25, 2020

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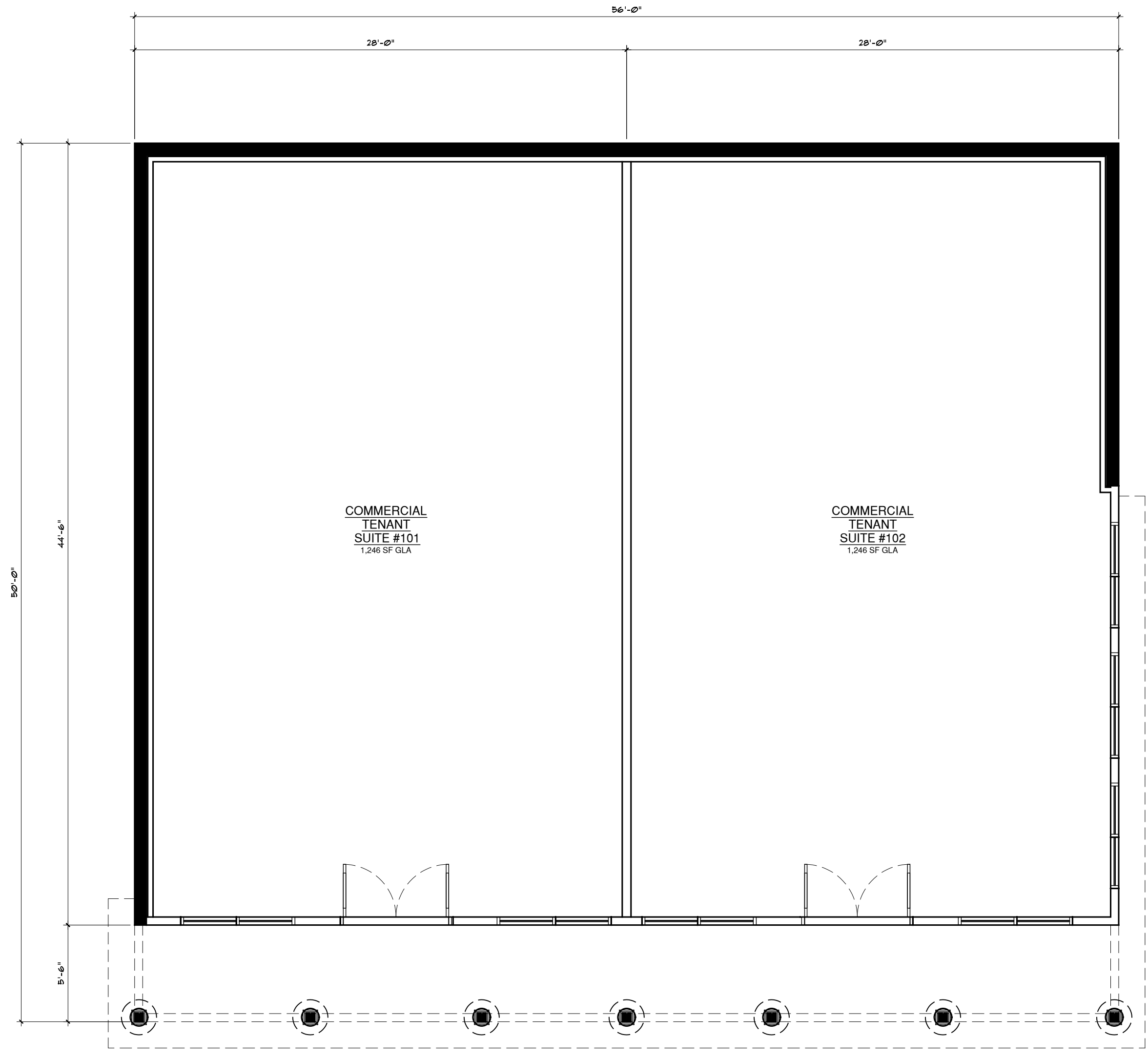
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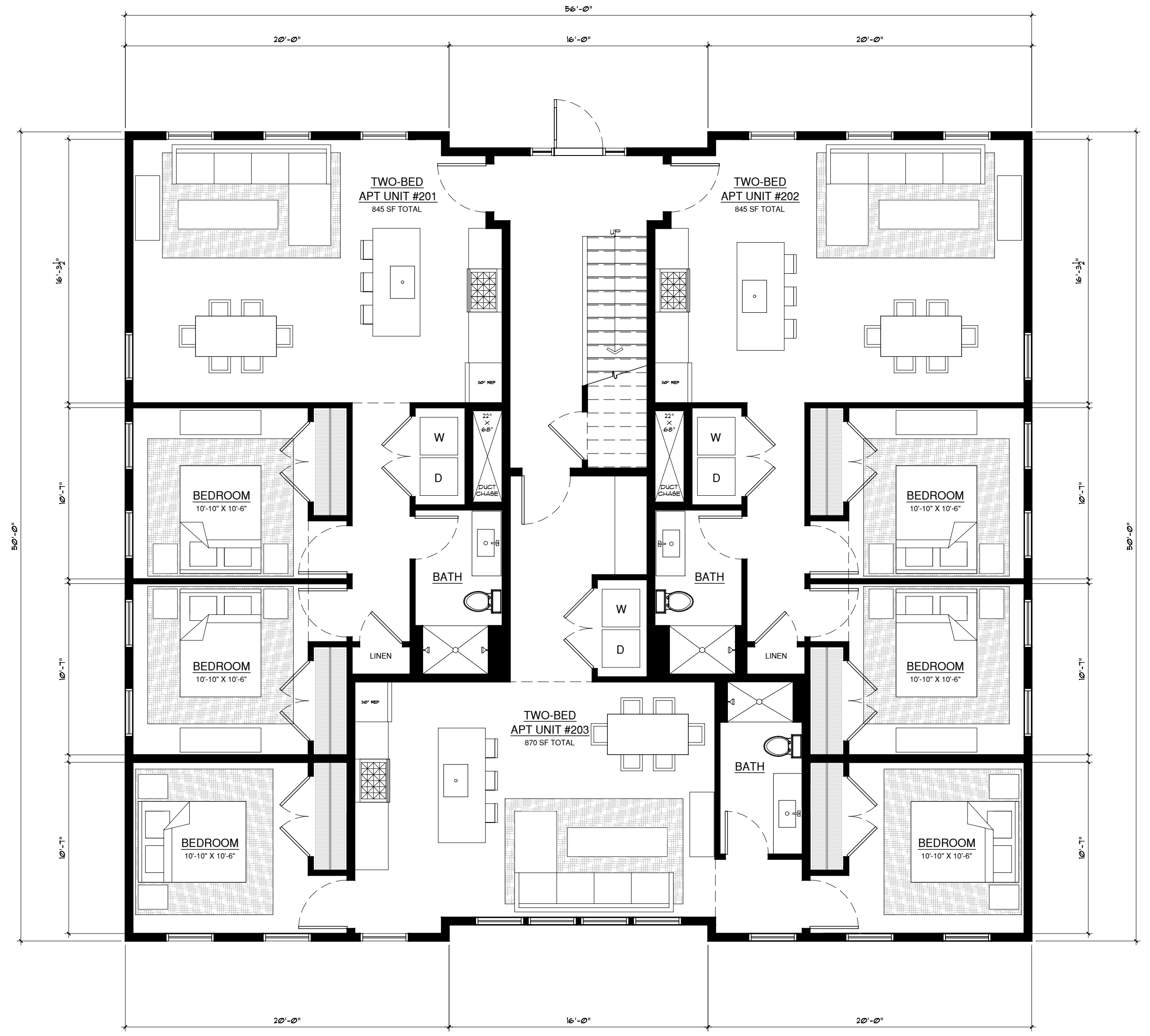
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**1** First Floor Architectural Plan (2,492 SF Footprint)  
Scale: 3/16" = 1'-0"



**2** Second Floor Architectural Plan (2,768 SF Footprint)  
Scale: 3/16" = 1'-0"

**KEAR STREET BUILDING**

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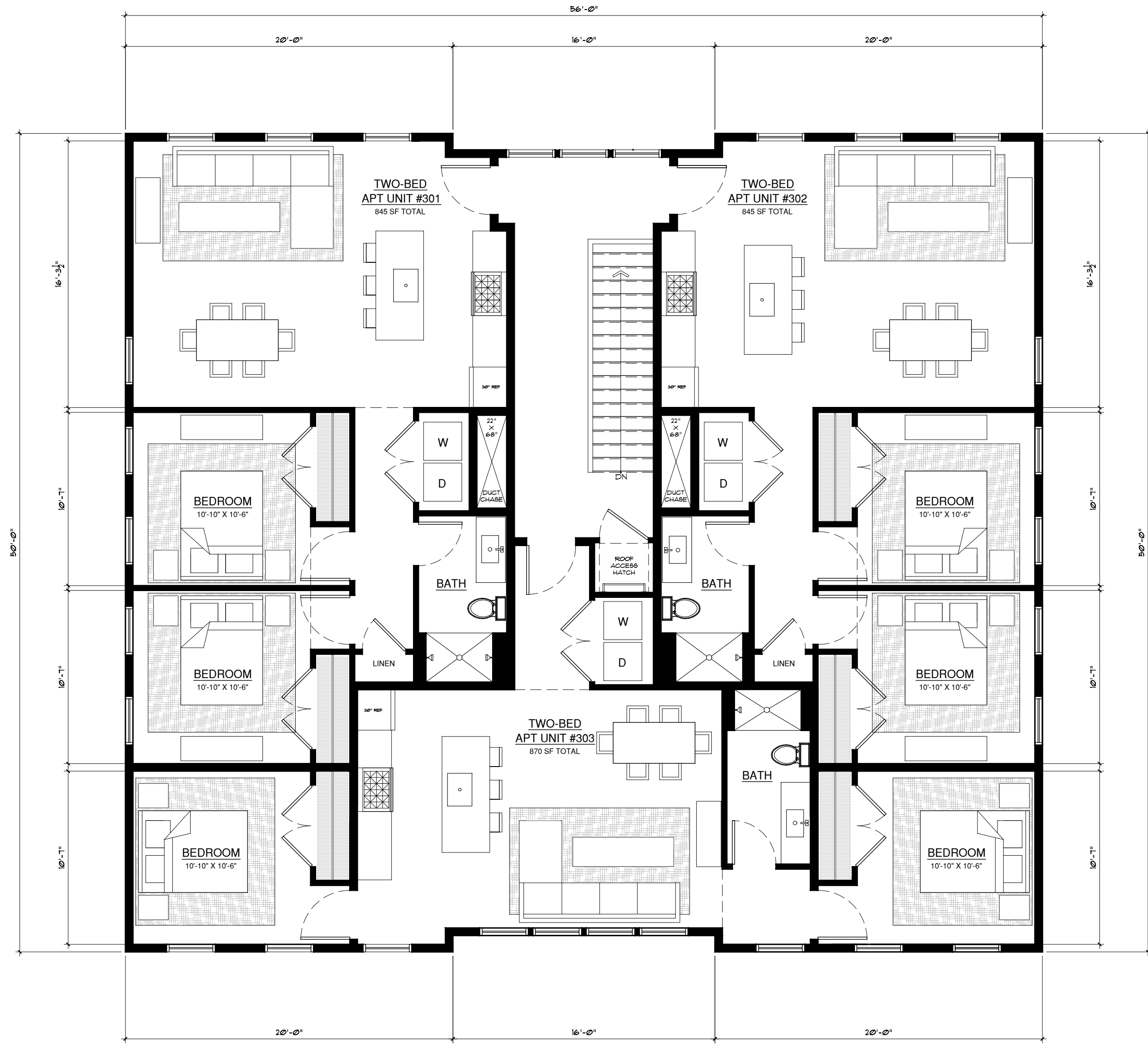
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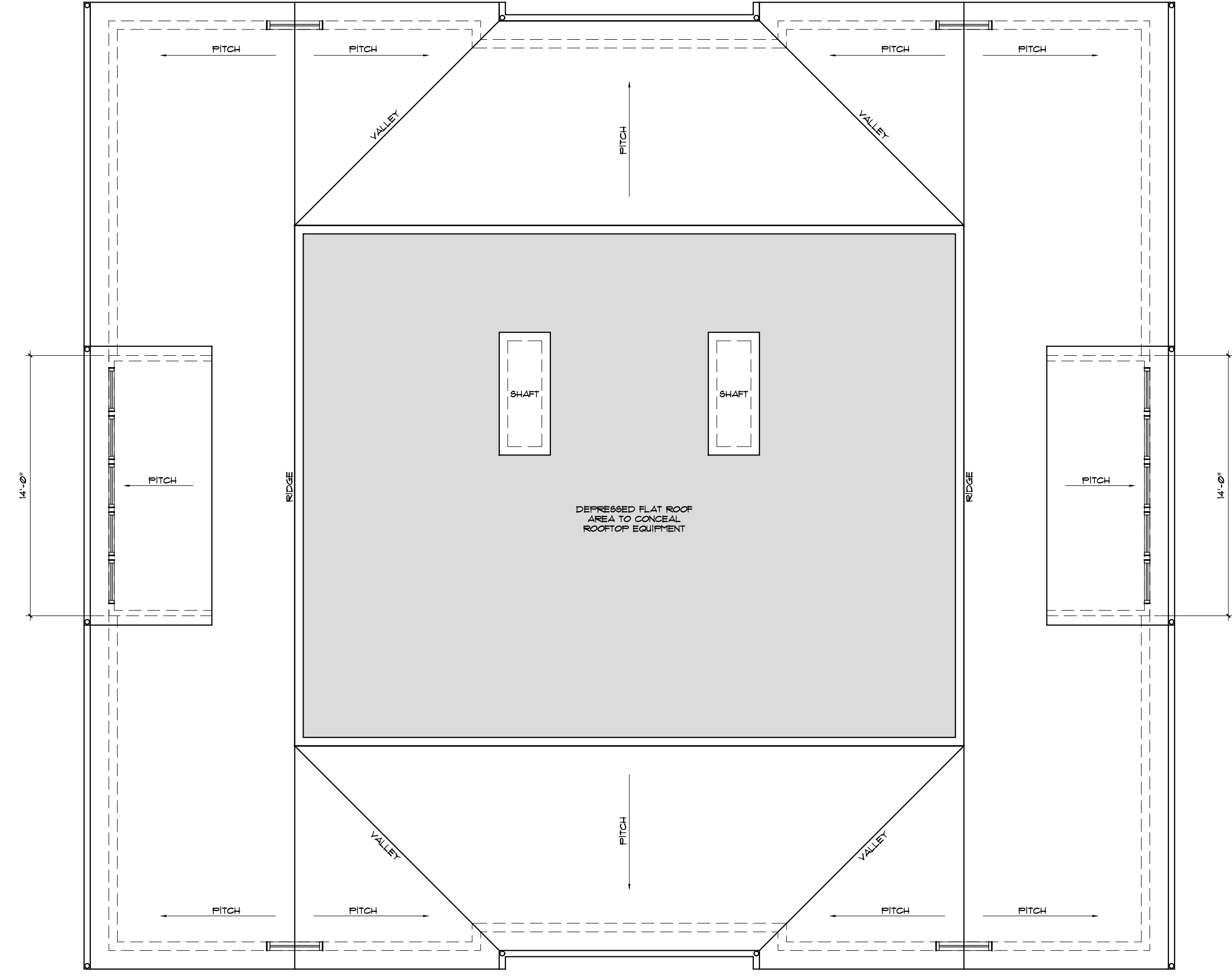
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**1** Third Floor Architectural Plan (2,768 SF Footprint)  
Scale: 3/16" = 1'-0"



**2** Roof Plan  
Scale: 3/16" = 1'-0"

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S-B-L: 37-12-2-86  
Town of Yorktown - Westchester County

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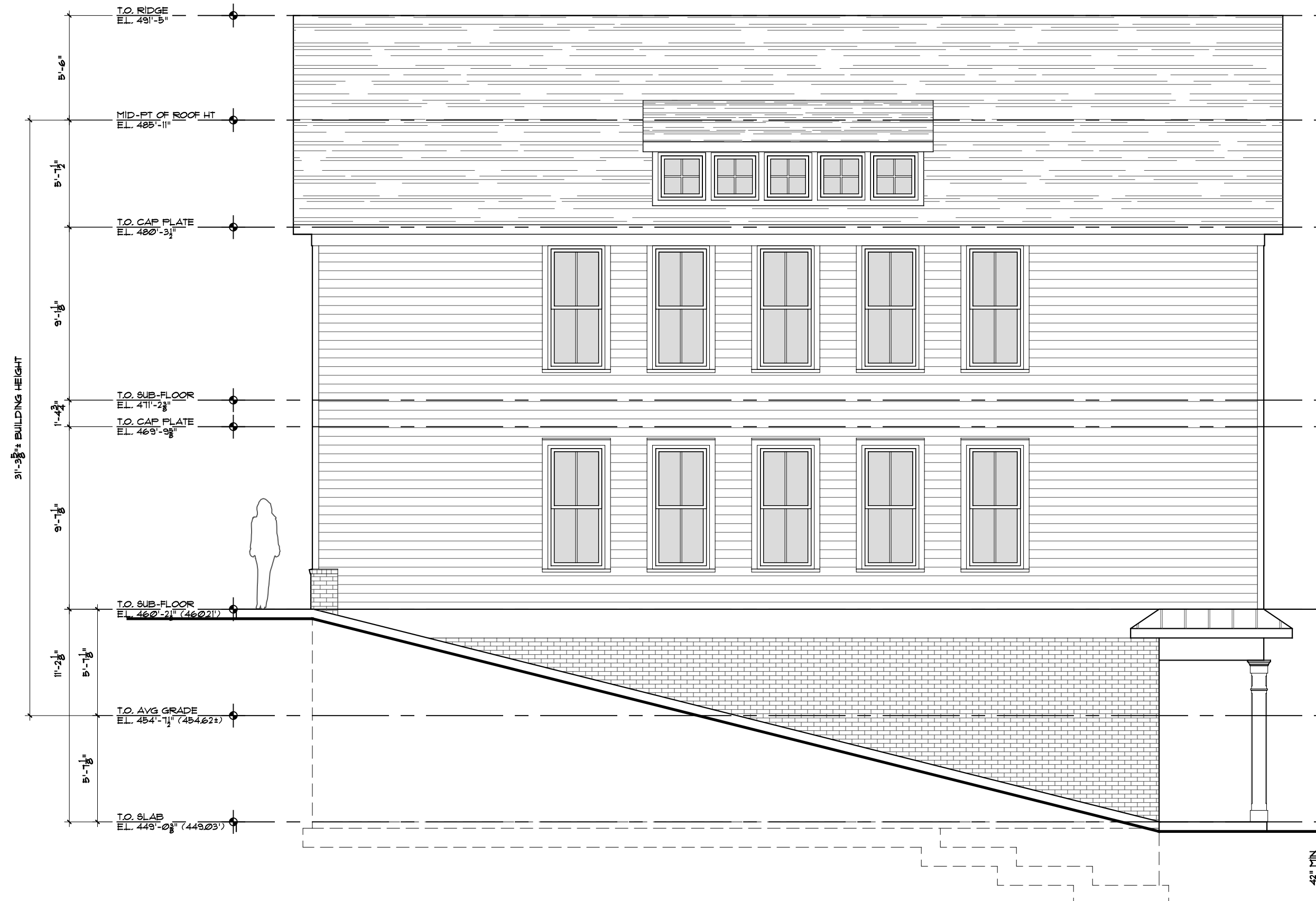
Revisions:

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**1** South Elevation  
A2.01 Scale: 3/16" = 1'-0"



**2** West Elevation  
A2.01 Scale: 3/16" = 1'-0"



**3** North Elevation  
A2.01 Scale: 3/16" = 1'-0"



**4** East Elevation  
A2.01 Scale: 3/16" = 1'-0"



**KEAR STREET BUILDING**

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Date: August 25, 2020

Revisions:

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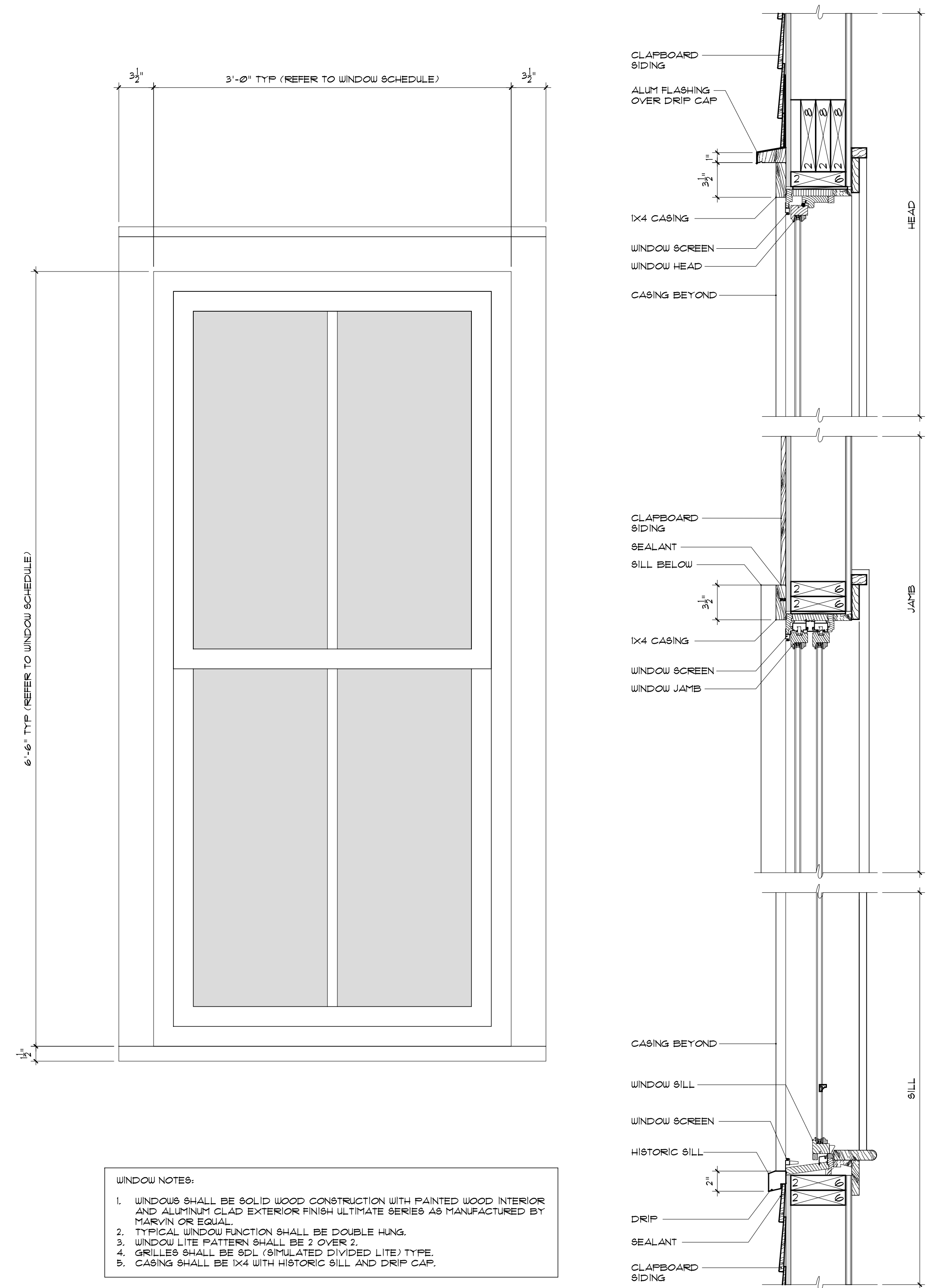
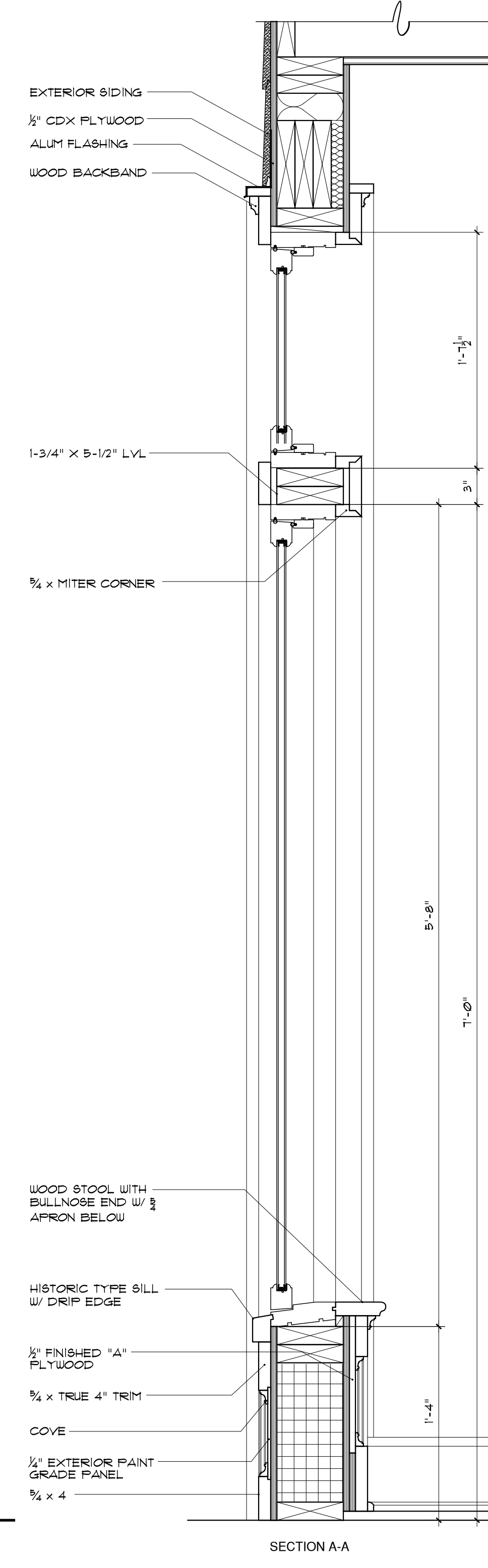
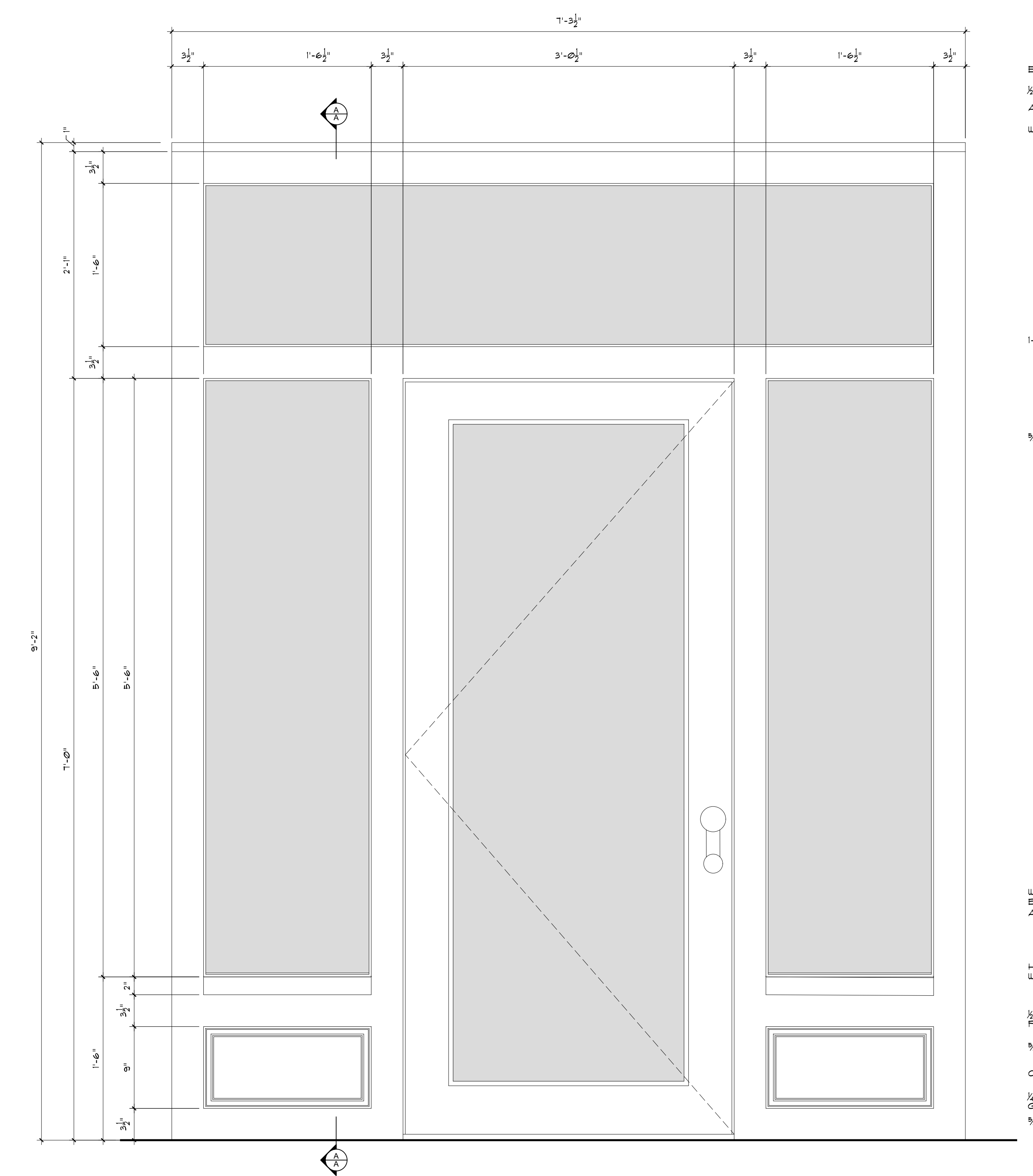
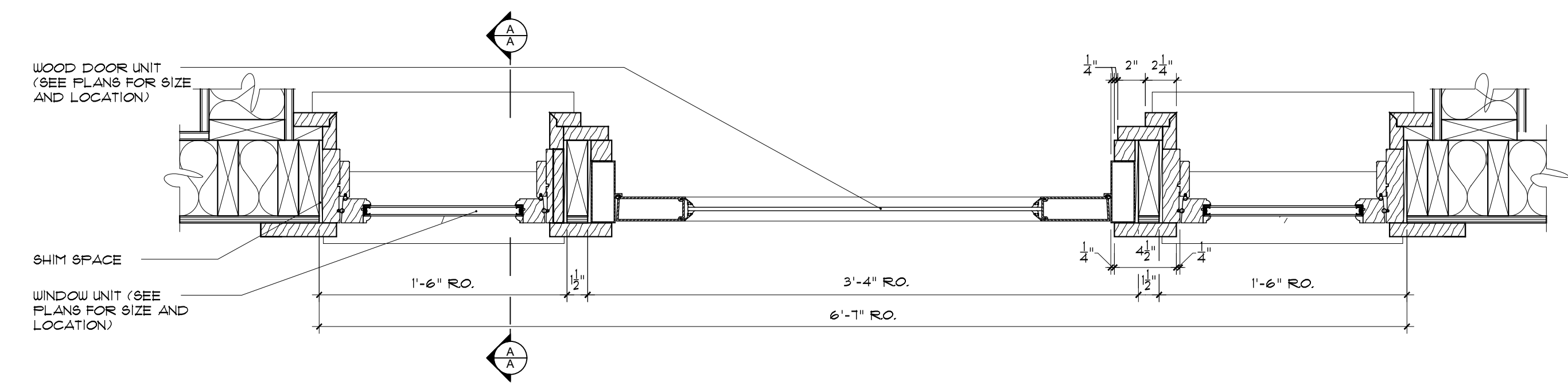
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**FOR PLANNING BOARD REVIEW & APPROVAL**

Date: August 25, 2020

Revisions:


**A5.01**



- WINDOW NOTES:
1. WINDOWS SHALL BE SOLID WOOD CONSTRUCTION WITH PAINTED WOOD INTERIOR AND ALUMINUM CLAD EXTERIOR FINISH ULTIMATE SERIES AS MANUFACTURED BY MARVIN OR EQUAL.
  2. TYPICAL WINDOW FUNCTION SHALL BE DOUBLE HUNG.
  3. WINDOW LITE PATTERN SHALL BE 7 OVER 2.
  4. GRILLES SHALL BE SOL (SIMULATED DIVIDED LITE) TYPE.
  5. CASING SHALL BE 1x4 WITH HISTORIC SILL AND DRIP CAP.

**1** New Typical Window Detail  
A5.01 Scale: 1-1/2" = 1'-0"

**2** New Entrance Door Detail  
A5.01 Scale: 1-1/2" = 1'-0"



NOTES:  
IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO HIS ITEM THE SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.  
DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN.  
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SEAL  
Joseph G. Thompson, RA  
New York State License #036057

**KEAR STREET BUILDING**

Nantuxet Sound Sons, LLC  
Kear Street  
Yorktown Heights, New York 10516  
S-B-L: 37-12-2-86  
Town of Yorktown - Westchester County

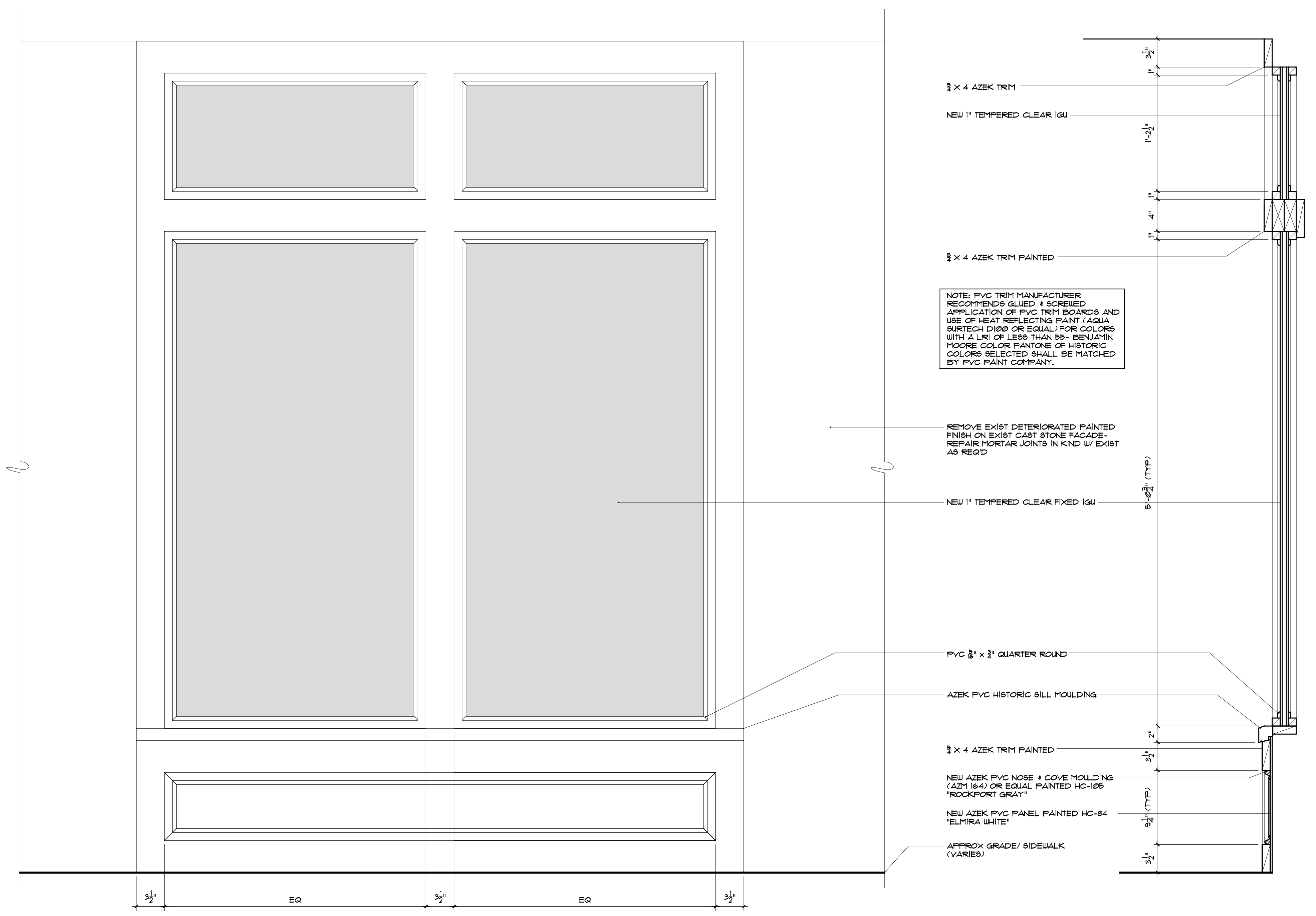
**FOR PLANNING BOARD REVIEW & APPROVAL**

Date: August 25, 2020

Revisions:

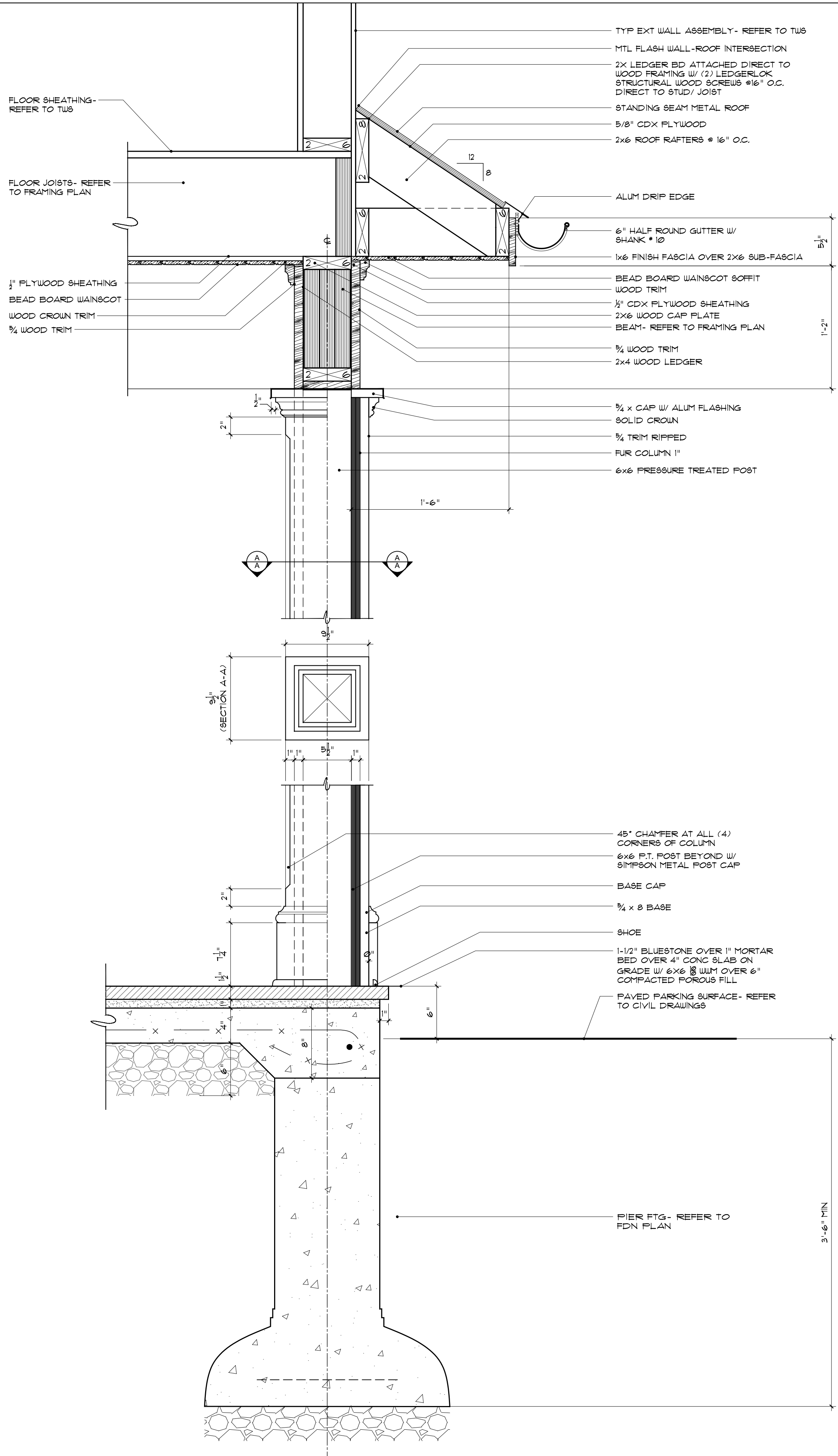
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**A5.02**



**1** Typical New Storefront Detail  
A5.02 Scale: 1-1/2" = 1'-0"





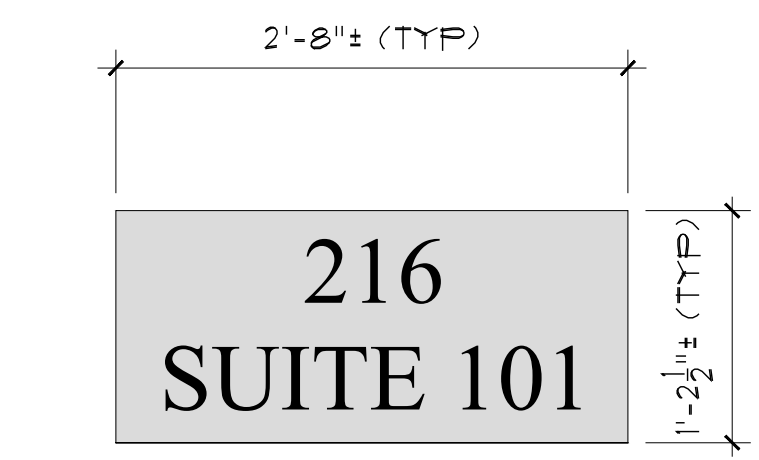
**1** Typical Covered Porch Detail  
A5.03 Scale: 1-1/2" = 1'-0"

TBD BY FUTURE TENANT

# NEW TENANT SIGNAGE

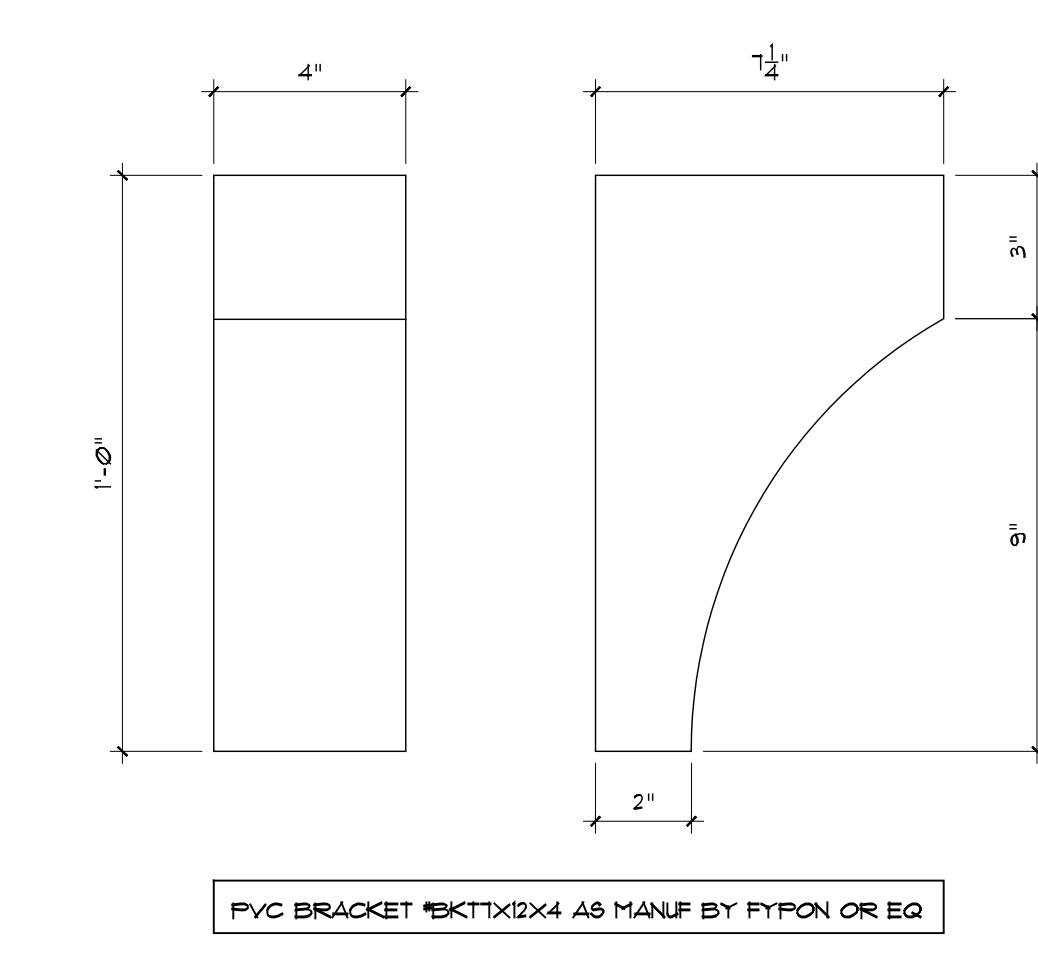
NOTE: DARK BRONZE ANODIZED ALUM "TIMES NEW ROMAN" FONT EXTERNALLY ILLUMINATED W/ VISUALLY CONCEALED 3,500K LED STRIP LIGHTING CONTROLLED VIA ASTRONOMICAL TIMER- PROJECTED JAMB NUT MOUNTED W/ SS THREADED RODS ATTACHED TO NEW SIGN BOARD AND SS JAMB NUTS TO SET SIGN DEPTH. SIGNAGE SHALL BE UNIFORM FOR ALL TENANTS. TEXT TBD BY FUTURE TENANT.

**2** New Typical Storefront Signage Detail  
A5.03 Scale: 1" = 1'-0"



- NEW TYPICAL TENANT SIGN NOTES:
1. SIGNAGE SHALL BE CUT VINYL GRAPHIC TYPE SURFACE APPLIED TO NEW TRANSOM GLAZING.
  2. FONT TYPE SHALL BE "TIMES NEW ROMAN".
  3. SIGN SIZE SHALL NOT EXCEED DIMENSIONS OF TRANSOM PANEL. LETTER SHALL BE WHITE.
  4. ALL NEW TENANT SIGNAGE SHALL CONFORM TO THE REQUIREMENTS NOTED ON THIS PLAN.
  5. 4" HT LETTERS DEPICTED BUT MAY VARY.

**3** Transom Signage Detail  
A5.03 Scale: 1" = 1'-0"



**4** Gable Bracket Detail  
A5.03 Scale: 3" = 1'-0"