

# TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME: MATRIX 1-84 DISTRIBUTION CENTER- SITE PLAN

PROJECT NO.: 22-29

PROJECT LOCATION: SECTION 86, BLOCK 1, LOT 97/ ROUTE 17K

**SECTION 89, BLOCK 1, LOTS 66 & 69.11** 

REVIEW DATE: 15 OCTOBER 2023

MEETING DATE: 19 OCTOBER 2023

PROJECT REPRESENTATIVE: LANGAN ENGINEERING

- 1. The applicants identified that approximately 160,000 cubic yards of material must be removed from the site. Finish floor elevation for the site were established based on the Airport Overlay District and reviewed by the FAA regarding building heights. This restriction has precluded changes in the site grading based on maximum elevations permitted. The applicants have revised the Grading Plan in order to reduce the amount of fill to be removed on the site. Additional grading was provided along the retaining walls eliminating approximately 160 feet of retaining wall. The revised Grading Plan has increased the area of disturbance to 1.2 acres. This disturbed area will be re-vegetated as grassed lawn.
- 2. The revised SWPPP is under review by this office.
- Securities and Inspection Fees are required for Stormwater Management/Erosion and Sediment Control, Landscaping, and Tree Preservation Ordinance compliance, and Clearing and Grading. These securities require approval by the Town Board prior to establishing the Securities and Inspection Fees.
- 4. A Clearing and Grading Permit has been provided in the latest submission. Any authorization for clearing and the grading of the site requires NYSDOT Access Approval, coverage under the NYSDEC Construction Stormwater Permit, establishment of securities for clearing and grading. Issuance of a Clearing and Grading Permit by the Town of Newburgh Building Department and filing of the Lot Consolidation Plan transferring ownership to the applicant. It is noted that an export of fill material is required. If the location of the fill material is within the Town of Newburgh a separate Clearing and Grading Permit may be required for the disposal site.
- 5. Status of the NYSDOT review for access utilities and any off-site improvements should be addressed with the Board.
- 6. Access Easement document for emergency access drive must be approved by the Planning Board Attorney.
- 7. Provisions to protect the Town water systems from water hammer conditions when fire flow

pumps are running, should be evaluated.

- 8. Design Report for the sanitary sewer pump station should be submitted identifying all details of the pump station design.
- 9. Detail for the emergency access road should be revised as access road is to be paved per Planning Board meeting discussions.
- 10. Parking lot striping should be per Town of Newburgh Standards with double stripe. Typical Detail attached.
- 11. Orange County Health Department approval for the water main extension is required.
- 12. A Restraint Joint Pipe Chart should be added to the plans for the water main installation.
- 13. Water Utilities Plan should be updated to identify the size of the existing main within Route 17K
- 14. A Stormwater Facilities Maintenance Agreement must be executed and filed. Approval from the Town of Newburgh Town Board is required.
- 15. Limits of disturbance should be delineated in the field with orange construction fence per the Orange Construction Fence Detail. Silt fence should not be utilized for limits of disturbance.

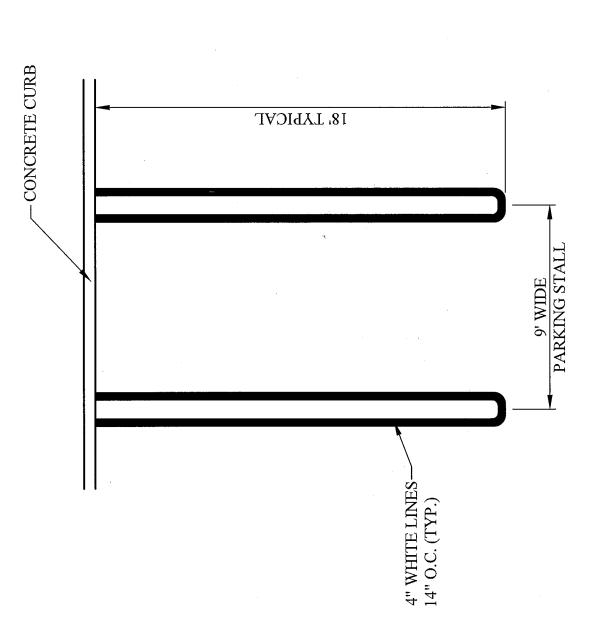
Respectfully submitted,

MHE Engineering, D.P.C.

Patril & Offenes

Patrick J. Hines

Principal PJH/kbw



# TYPICAL PARKING SPACE DETAIL SCALE: N.T.S.



Matrix Development Group Forsgate Drive, CN4000 Cranbury, NJ 08512 Tel: (732) 521-2900 Fax: (609) 395-8289 www.matrixcompanies.com

October 12, 2023

Via Hand Delivery

Town of Newburgh Planning Board 21 Hudson Valley Professional Plaza Newburgh NY 12550 Attn: John P. Ewasutyn, Chairman

Re: Site Plan Submission PB #22-029 Matrix I-84 Distribution Center

Dear Mr. Ewasutyn,

Enclosed are updated plans related to our site plan application for Matrix I-84 Distribution Center. These plans contain minor revisions to address SWPPP, grading and landscaping; details are provided in the comment response letters. A revised SEQR EAF is also included along with a detailed summary of the changes (attached). A copy of the clarification letter addressing anticipated soil export previously sent to the Board is also enclosed. We believe that these changes will have no negative impact and are consistent with the Board's finding of a Negative Declaration for the project.

### The submission includes:

- 12 hard copy sets of detailed site plans (selected sheets)
- 12 copies comment response letters
- 12 copies updated EAF and SEQR clarification letter dated October 03, 2023
- 12 Copies updated Clearing and Grading Permit Application (updated area of disturbance)
- Revised SWPPP (MHE and Board record copy only)
- 1 full submission set of all plans reports and correspondence for record purposes

A hard copy of all plans and correspondence, along with an electronic copy of same will also be sent directly to all Board consultants, namely Mr. Hines, Ms. Arent, Mr. Cordisco, and Mr. Wersted.

We would like to request that the Board grant the approvals below after the public hearing, if all public comments have been adequately addressed to the Board's satisfaction:

- Clearing and Grading Permit
- Site Plan Approval
- Subdivision/Lot Line Change
- ARB Approval

We look forward to meeting with the Board to continue our ongoing site plan review; in the meantime, please contact me if you have any questions.

Sincerely,

Raymond Aquino P.E/

Director of Land Development



MO (FAR) 2797 & FAR) 9818. 🔳 MO 1797 + SA MANAGES 🔃 MO 1891 + MANAGES AND SA MA

# EAF Update Summary - I-84 Distribution Center October 12, 2023

The following changes were made to the EAF as outlined below:

- **B. Governmental Approval, Funding or Sponsorship** list of approvals and corresponding dates have been updated to reflect current status of the project this change is informational only and does not relate to any environmental impacts resulting from the project
- **D.1.b Proposed and Potential Development** See attached letter dated October 03, 2023. Area of disturbance increased 1.2 acres due to grading changes made to minimize soil export from the site.
- **D.2.a Project Operations** See attached letter dated October 03, 2023. This section has been updated to reflect current excavation and grading of the site including anticipated soil export.
- **D.2.c and d. Project Operations** anticipated water and sewer usage updated to reflect anticipated water and sewer demand of 11,700 gpd. This allotment is approved by the City of Newburgh for treatment. The additional demand as approved, will have no negative impact to the water and sewer infrastructure serving the project.
- **E.1.b Land Uses on and surrounding the project site** See attached letter dated October 03, 2023. Forested acreage post development was reduced by 1.2 acres due to grading changes made to minimize soil export from the site.
- **E.1.h. Potential contamination history** this section was updated to reflect recent removal of soils impacted by prior dumping on the property, resulting in a positive environmental impact.

### Full Environmental Assessment Form Part 1 - Project and Setting

### **Instructions for Completing Part 1**

**Part 1 is to be completed by the applicant or project sponsor.** 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; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

### A. Project and Applicant/Sponsor Information.

Name of Action or Project:  Matrix I-84 Distribution Center		
Project Location (describe, and attach a general location map):		
The site is located on Route 17K in the Town of Newburgh. It is located 0.75 miles east of t	the intersection of I-84. S/B/L:	89-1-66; 89-1-69.11; 86-1-97
Brief Description of Proposed Action (include purpose or need):		
The proposed development is a +/- 595,900-square foot warehouse that meets the requirer associated loading and parking spaces, utilities, and stormwater management practices. As is included in the project narrative.		
Name of Applicant/Sponsor:	Telephone: (732) 718-689	96
Matrix Newburgh Route 17K Development, LLC	E-Mail: kgriffin@matrixcompanies.com	
Address: 3 Center Drive		
City/PO: Monroe Township	State: New Jersey	Zip Code: 08831
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 914-323-7410	)
W. Charles Utschig Jr., Senior Associate	E-Mail: cutschig@langan.	com
Address: 1 North Broadway		
City/PO: White Plains	State: New York	Zip Code: 10601
Property Owner (if not same as sponsor): * See note at bottom of page	Telephone:	
Manheim Remarketing, Inc.	E-Mail:	
Address: 6205 Peachtree Dunwoody Road		
City/PO: Atlanta	State: GA	Zip Code: <sub>30328</sub>

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<sup>\*</sup> The applicant is the owner of S/B/L: 89-1-66. Manheim Remarking, Inc. is the current owner of S/B/L: 89-1-69.11 and 86-1-97.

## \* See note at bottom of page for B. Government Approvals additional approvals/permits

Government	Entity	If Yes: Identify Agency and Approval(s)	s) Application Date	
		Required	(Actual or	projected)
. City Counsel, Town Boa or Village Board of Trus				
. City, Town or Village Planning Board or Comr	<b>∠</b> Yes No mission	Town of Newburgh Planning Board - Site Plan Approval, SEQR Determination	Initial SEQR Submission SEQR Determination: S	
. City, Town or Village Zoning Board of	□Yes ✓No Appeals			
Other local agencies	<b>✓</b> Yes □No	Town Engineer and Health Department - Water Main Approval	Projected date: Decemb	per 2023
. County agencies	<b>∠</b> Yes <b>N</b> o	Orange County Dept of Planning- Site Plan Review Department of Health - Water Connection	Projected date: Decemb	er 2023
Regional agencies	□Yes <b>∠</b> No			
. State agencies	<b>∠</b> Yes□No	NYSDOT - Highway Work Permit, NYSDEC - SPDES	NYSDOT Stage 1 Subn	nission: June 2023
Federal agencies	<b>∠</b> Yes <b>N</b> o	FAA Notice of Construction/Hazard to Air Nav. Determination	Determination Issued: \$ 2023	September/Octobe
i. is the project site with	nın a Coastal Area, o	or the waterfront area of a Designated Inland W	aterway?	□Yes <b>☑</b> No
ii. Is the project site loca	ated in a community	with an approved Local Waterfront Revitaliza	•	Yes No
<ul><li>ii. Is the project site loca</li><li>iii. Is the project site with</li><li>Planning and Zoning</li></ul>	ated in a community iin a Coastal Erosior	with an approved Local Waterfront Revitaliza	•	□ Yes <b>☑</b> No
<ul><li>ii. Is the project site loca</li><li>iii. Is the project site with</li><li>Planning and Zoning</li><li>1. Planning and zoning</li></ul>	ated in a community in a Coastal Erosion actions.	with an approved Local Waterfront Revitaliza  1 Hazard Area?	tion Program?	☐ Yes ✓ No ☐ Yes ✓ No
<ul> <li>ii. Is the project site localii. Is the project site with</li> <li>Planning and Zoning</li> <li>Planning and zoning</li> <li>Il administrative or legishly approval(s) which mu</li> <li>If Yes, complete see</li> </ul>	actions. lative adoption, or a st be granted to enal ections C, F and G.	with an approved Local Waterfront Revitalizate Hazard Area?  mendment of a plan, local law, ordinance, rule ple the proposed action to proceed?	tion Program?  or regulation be the	□ Yes No
<ul> <li>ii. Is the project site localii. Is the project site with</li> <li>Planning and Zoning</li> <li>Planning and zoning</li> <li>Il administrative or legismally approval(s) which mu</li> <li>If Yes, complete set</li> <li>If No, proceed to contact the project site of the project si</li></ul>	actions. lative adoption, or a st be granted to enal ections C, F and G. question C.2 and con	with an approved Local Waterfront Revitalizate Hazard Area?  mendment of a plan, local law, ordinance, rule	tion Program?  or regulation be the	□ Yes  No □ Yes  No
<ul> <li>ii. Is the project site localii. Is the project site with</li> <li>Planning and Zoning</li> <li>1. Planning and zoning</li> <li>iil administrative or legis and approval(s) which mu</li> <li>If Yes, complete set If No, proceed to complete set</li> <li>2. Adopted land use planning</li> </ul>	actions. lative adoption, or a st be granted to enal ections C, F and G. question C.2 and conns.	with an approved Local Waterfront Revitalizate Hazard Area?  mendment of a plan, local law, ordinance, rule ple the proposed action to proceed?  mplete all remaining sections and questions in Hazard Area?	or regulation be the	☐ Yes ✓ No ☐ Yes ✓ No ☐ Yes ✓ No
<ul> <li>ii. Is the project site localii. Is the project site with</li> <li>ii. Planning and Zoning</li> <li>ii. Planning and zoning</li> <li>ii. Planning and zoning</li> <li>iii. Planning and zoning</li> <li>i</li></ul>	actions. lative adoption, or a st be granted to enable ections C, F and G. question C.2 and comms.  pted (city, town, vil n would be located?	with an approved Local Waterfront Revitalizate Hazard Area?  mendment of a plan, local law, ordinance, rule ple the proposed action to proceed?  mplete all remaining sections and questions in Hazard Area?	or regulation be the Part 1	□ Yes  No □ Yes  No
ii. Is the project site loca iii. Is the project site with  Planning and Zoning  1. Planning and zoning  Ill administrative or legis inly approval(s) which mu  If Yes, complete se  If No, proceed to ce  2. Adopted land use pla  Do any municipally- adop where the proposed actio Yes, does the comprehen ould be located?  Is the site of the proposed Brownfield Opportunity or other?) Yes, identify the plan(s):	actions. lative adoption, or a st be granted to enable ections C, F and G. question C.2 and comms.  pted (city, town, vil n would be located? sive plan include spend action within any l Area (BOA); design	with an approved Local Waterfront Revitalizate Hazard Area?  mendment of a plan, local law, ordinance, rule ple the proposed action to proceed?  mplete all remaining sections and questions in Hazard Area?	or regulation be the  Part 1  ) include the site  proposed action  example: Greenway;	☐ Yes  No ☐ Yes  No ☐ Yes  No

Additional City, Town or Village Planning Board or Commission Approvals Required: Architectural Review Board Approval, NYSDEC 5-acre Disturbance Waiver, Clearing and Grading Permit, City of Newburgh Sewer Connection & Approval of Developers Agreement

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C.3. Zoning	
a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance.  If Yes, what is the zoning classification(s) including any applicable overlay district?  IB - Interchange Business District; Stewart Airport Overlay District	<b>∠</b> Yes No
b. Is the use permitted or allowed by a special or conditional use permit?	<b>∠</b> Yes <b>N</b> o
c. Is a zoning change requested as part of the proposed action?  If Yes,  i. What is the proposed new zoning for the site?	□ Yes <b>☑</b> No
C.4. Existing community services.	
a. In what school district is the project site located? Valley Central School District	
b. What police or other public protection forces serve the project site?  Town of Newburgh Police Department	
c. Which fire protection and emergency medical services serve the project site?  Orange Lake Fire District; Town of Newburgh Emergency Medical Services	
d. What parks serve the project site?  Stewart State Forest ( 2 miles west), Algonquin Park (2.3 miles east), Cronomer Hill Park (2.7 miles east), San Giacomo Park (3.	7 miles south east)
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed components)? Industrial - Warehouse building	, include all
b. a. Total acreage of the site of the proposed action?  b. Total acreage to be physically disturbed?  c. Total acreage (project site and any contiguous properties) owned  ±62.0 acres  ±44.5 acres	
or controlled by the applicant or project sponsor?	
c. Is the proposed action an expansion of an existing project or use?  i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, square feet)? % Units:	☐ Yes  No housing units,
d. Is the proposed action a subdivision, or does it include a subdivision?	<b>∠</b> Yes <b>□</b> No
If Yes,  i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)  Industrial subdivision/lot merge	
ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed?	□Yes <b>☑</b> No
iv. Minimum and maximum proposed lot sizes? Minimum Maximum e. Will the proposed action be constructed in multiple phases?	<b>∠</b> Yes <b>□</b> No
<ul> <li>i. If No, anticipated period of construction:</li> <li>ii. If Yes:</li> <li>18 months * See note a page</li> </ul>	
<ul> <li>Total number of phases anticipated</li> <li>Anticipated commencement date of phase 1 (including demolition)</li> <li>11 month 2023 year</li> </ul>	
<ul> <li>Anticipated completion date of final phase</li> <li>Generally describe connections or relationships among phases, including any contingencies where progressing the connection of the connection</li></ul>	es of one phase may
determine timing or duration of future phases:	

<sup>\*</sup> A 5 acre waiver will be requested for this project

	t include new resid				□Yes☑No
If Yes, show num	bers of units propo One Family	rsed.  Two Family	Three Family	Multiple Family (four or more)	
Luid of Discour	<u>One runny</u>	1 wo 1 anniy	Timee Tunniy	Multiple Lamily (Total of more)	
Initial Phase At completion				<del></del>	
of all phases					
If Yes,  i. Total number	of structures	1_	l construction (inclu		<b>☑</b> Yes □ No
liquids, such as If Yes,	s creation of a wate	er supply, reservoir,	pond, lake, waste la	result in the impoundment of any agoon or other storage?  pasins will temporarily impound water during	✓ Yes ☐ No
		cipal source of the		Ground water Surface water stream	
Drainage from site	<u>-</u>			<del>-</del>	
N/A	<u> </u>	· · · · · · · · · · · · · · · · · · ·	contained liquids and		
		ed impoundment.  In or impounding str			TBD acres
vi. Construction:	method/materials	for the proposed da		ructure (e.g., earth fill, rock, wood, con-	crete):
D.2. Project Ope	erations				
	general site prepar			uring construction, operations, or both? or foundations where all excavated	✓ Yes No
	rpose of the excav	ation or dredging? ا	and grading - export		
		ck, earth, sediments bic yards): <u>+/-160,0</u>		be removed from the site?	
	at duration of time				
			e excavated or dredg n will be developed pric	ged, and plans to use, manage or dispos or to construction.	e of them.
. W7'11 db b .					
		or processing of ex			☐Yes No
v. What is the to	tal area to be dredg				notes at
vi. What is the m	aximum area to be	worked at any one	time?		f page
			or dredging?	31_ feet	
	vation require blas				□Yes □No
ix. Summarize sit	e reclamation goals	s and plan:			
			on of, increase or dech or adjacent area?	crease in size of, or encroachment	∏Yes <b>№</b> No
				vater index number, wetland map numb	

<sup>\* 44.5</sup> acres is the overall limit of disturbance
\* 20 acres is the max area to be worked on at one time per the 5-ac waiver.
\* 31 feet is the largest cut that will occur on the site.

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<i>ii.</i> Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square	
iii. Will the proposed action cause or result in disturbance to bottom sediments?  If Yes, describe:	□Yes□No
<ul><li>iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation?</li><li>If Yes:</li></ul>	□Yes□No
acres of aquatic vegetation proposed to be removed:	
<ul> <li>expected acreage of aquatic vegetation remaining after project completion:</li> <li>purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):</li> </ul>	
proposed method of plant removal:	
• if chemical/herbicide treatment will be used, specify product(s):	
c. Will the proposed action use, or create a new demand for water?  If Yes:	<b>∠</b> Yes <b></b> No
i. Total anticipated water usage/demand per day:11,700_ gallons/day	
<ul><li>ii. Will the proposed action obtain water from an existing public water supply?</li><li>If Yes:</li></ul>	<b>∠</b> Yes <b>N</b> o
Name of district or service area: Town of Newburgh consolidated water district	
<ul> <li>Does the existing public water supply have capacity to serve the proposal?</li> </ul>	<b>∠</b> Yes No
• Is the project site in the existing district?	✓ Yes  ☐ No
<ul> <li>Is expansion of the district needed?</li> </ul>	☐ Yes ✓ No
<ul> <li>Do existing lines serve the project site?</li> </ul>	<b>✓</b> Yes No
<i>iii.</i> Will line extension within an existing district be necessary to supply the project? If Yes:	□Yes <b>∠</b> No
Describe extensions or capacity expansions proposed to serve this project:	
Source(s) of supply for the district:	
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	☐ Yes ✓ No
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
Proposed source(s) of supply for new district:	
v. If a public water supply will not be used, describe plans to provide water supply for the project:	
vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: ga	llons/minute.
d. Will the proposed action generate liquid wastes?  If Yes:	<b>∠</b> Yes □No
i. Total anticipated liquid waste generation per day:11,700 gallons/day	
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all combination of the combination of	omponents and
approximate volumes or proportions of each):  Sanitary Wastewater	
<ul><li>iii. Will the proposed action use any existing public wastewater treatment facilities?</li><li>If Yes:</li></ul>	<b>∠</b> Yes <b></b> No
<ul> <li>Name of wastewater treatment plant to be used: <u>City of Newburgh - Renwick Street wastewater treatment plant</u></li> </ul>	ınt
Name of district: Town of Newburgh Sewer District (Crossroads Sewer District in the Joint Sewer District Consol	
<ul> <li>Does the existing wastewater treatment plant have capacity to serve the project?</li> </ul>	<b>∠</b> Yes <b>N</b> o
• Is the project site in the existing district?	<b>∠</b> Yes <b>□</b> No
• Is expansion of the district needed?	☐ Yes <b>☑</b> No

Do existing sewer lines serve the project site?  Will be a serve the project site?	✓ Yes ☐ No
<ul> <li>Will a line extension within an existing district be necessary to serve the project?</li> <li>If Yes:</li> </ul>	□Yes <b>☑</b> No
<ul> <li>Describe extensions or capacity expansions proposed to serve this project:</li> </ul>	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?	□Yes ✓No
If Yes:	
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
• What is the receiving water for the wastewater discharge?	ifying proposed
receiving water (name and classification if surface discharge or describe subsurface disposal plans):	irying proposed
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	<b>∠</b> Yes <b>N</b> o
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	
source (i.e. sheet flow) during construction or post construction?	
If Yes:	
<ul> <li>i. How much impervious surface will the project create in relation to total size of project parcel?</li> <li>Square feet or26.3 acres (impervious surface)</li> </ul>	
Square feet or62.0 acres (parcel size)	
ii. Describe types of new point sources. Conveyance pipes	
<ul> <li>iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pregroundwater, on-site surface water or off-site surface waters)?</li> <li>On-site stormwater runoff will be treated for water quality and detained by various stormwater management basins and features, included the stormwater water stormwater water detailed by various stormwater management basins and features, included the stormwater water water water stormwater water water water water stormwater water water</li></ul>	_
<ul> <li>detention chambers. Stormwater discharge will be directed to match existing watersheds and flow patterns.</li> <li>If to surface waters, identify receiving water bodies or wetlands:</li> </ul>	
Will stormwater runoff flow to adjacent properties?	☐ Yes ☑ No
<i>iv.</i> Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	<b>∠</b> Yes <b>□</b> No
combustion, waste incineration, or other processes or operations?  If Yes, identify:	
<i>i</i> . Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
Fruck fleet	
<ul> <li>ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)</li> <li>Generators, concrete batch plants, soil screener and heavy construction equipment</li> </ul>	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
Rooftop HVAC units, generators	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit?	□Yes <b>☑</b> No
If Yes:	<b></b> -
i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes <b>☑</b> No
ambient air quality standards for all or some parts of the year)	
<ul> <li>ii. In addition to emissions as calculated in the application, the project will generate:</li> <li>Tons/year (short tons) of Carbon Dioxide (CO<sub>2</sub>)</li> </ul>	
•Tons/year (short tons) of Carbon Dioxide (CO <sub>2</sub> ) •Tons/year (short tons) of Nitrous Oxide (N <sub>2</sub> O)	
<ul> <li>Tons/year (short tons) of Perfluorocarbons (PFCs)</li> </ul>	
<ul> <li>Tons/year (short tons) of Fernancearbons (11'es)</li> <li>Tons/year (short tons) of Sulfur Hexafluoride (SF<sub>6</sub>)</li> </ul>	
•Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)	
Tons/year (short tons) of Hazardous Air Pollutants (HAPs)	

h. Will the proposed action generate or emit methane (includin landfills, composting facilities)?  If Yes:  i. Estimate methane generation in tons/year (metric):		∐Yes <b>☑</b> No
ii. Describe any methane capture, control or elimination meas electricity, flaring):	sures included in project design (e.g., combustion to g	enerate heat or
Will the proposed action result in the release of air pollutant quarry or landfill operations?  If Yes: Describe operations and nature of emissions (e.g., dies		□Yes <b>☑</b> No
<ul> <li>j. Will the proposed action result in a substantial increase in tr new demand for transportation facilities or services?</li> <li>If Yes: <ul> <li>i. When is the peak traffic expected (Check all that apply):</li> <li>□ Randomly between hours of to to</li></ul></li></ul>	✓ Morning ✓ Evening ☐Weekend	✓ Yes No
<ul> <li>iii. Parking spaces: Existing 0 spaces Proposed iv. Does the proposed action include any shared use parking?</li> <li>v. If the proposed action includes any modification of existing Access to the route will be provided from NYS route 17K. Modifications in vi. Are public/private transportation service(s) or facilities availies will will the proposed action include access to public transport or other alternative fueled vehicles?</li> <li>viii. Will the proposed action include plans for pedestrian or be pedestrian or bicycle routes?</li> </ul>	ing roads, creation of new roads or change in existing to NYS Route 17K will be required to allow for access into the ailable within ½ mile of the proposed site? tation or accommodations for use of hybrid, electric	☐Yes ☑No access, describe:
<ul> <li>k. Will the proposed action (for commercial or industrial projet for energy?</li> <li>If Yes: <ul> <li>i. Estimate annual electricity demand during operation of the 450 KW</li> </ul> </li> <li>ii. Anticipated sources/suppliers of electricity for the project (other): <ul> <li>Grid/ local utility (Central Hudson Gas and Electric - Coldenham subsiti.</li> <li>iii. Will the proposed action require a new, or an upgrade, to a</li> </ul> </li> </ul>	e proposed action:	✓Yes No  ocal utility, or  ☐Yes ✓No
Hours of operation. Answer all items which apply.     i. During Construction:	<ul> <li>ii. During Operations:</li> <li>Monday - Friday:</li> <li>Saturday:</li> <li>Sunday:</li> <li>Holidays:</li> <li>24 hours</li> <li>24 hours</li> <li>24 hours</li> </ul>	

<ul><li>m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?</li><li>If yes:</li></ul>	☐ Yes <b>☑</b> No
i. Provide details including sources, time of day and duration:	
<ul><li>ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?</li><li>Describe:</li></ul>	☐ Yes <b>☑</b> No
n. Will the proposed action have outdoor lighting?  If yes:  i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	✓ Yes □No
Full cut-off lighting will be installed to provide light along driveways, walkways and parking areas to ensure clear and safe circulation adverse impacts on surrounding areas. The lighting plan will be submitted with future submissions and will include standard pole-more	ount and wall fixtures.
<ul><li>ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen?</li><li>Describe:</li></ul>	☐ Yes <b>☑</b> No
o. Does the proposed action have the potential to produce odors for more than one hour per day?  If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:	☐ Yes 🗹 No
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage?  If Yes:  i. Product(s) to be stored  ii. Volume(s) per unit time (e.g., month, year)  iii. Generally, describe the proposed storage facilities:	☐ Yes ☑ No
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation?  If Yes:  i. Describe proposed treatment(s):	☐ Yes ☑ No
<ul><li>ii. Will the proposed action use Integrated Pest Management Practices?</li><li>r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)?</li><li>If Yes:</li></ul>	☐ Yes ☑No ☑ Yes ☐No
<ul> <li>i. Describe any solid waste(s) to be generated during construction or operation of the facility:         <ul> <li>Construction:Approximately 125 tons perN/A (unit of time)</li> <li>Operation:Approximately 90 tons peryear (unit of time)</li> </ul> </li> <li>ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:         <ul> <li>Construction: On-site recycling will be provided and privately hauled to a recycling facility.</li> </ul> </li> </ul>	
Operation: On-site recycling will be provided and privately hauled to a recycling facility.	
<ul> <li>iii. Proposed disposal methods/facilities for solid waste generated on-site:</li> <li>Construction: Solid waste will be handled by a private contractor.</li> </ul>	
Operation: Solid waste will be handled by a private contractor.	

s. Does the proposed action include construction or modification of a solid waste management facility?  Yes  No				
<ul><li>If Yes:</li><li>i. Type of management or handling of waste proposed</li></ul>	for the site (a.g. recycling o	r transfer station composting	a landfill or	
other disposal activities):			g, ianum, or	
ii. Anticipated rate of disposal/processing:				
• Tons/month, if transfer or other non-co		t, or		
• Tons/hour, if combustion or thermal t				
iii. If landfill, anticipated site life:				
t. Will the proposed action at the site involve the commer	cial generation, treatment, st	orage, or disposal of hazard	ous □Yes ☑No	
waste? If Yes:				
<i>i.</i> Name(s) of all hazardous wastes or constituents to be	generated, handled or mana	ged at facility:		
· · · · · · · · · · · · · · · · · · ·		·		
<i>ii.</i> Generally describe processes or activities involving h	azardous wastes or constitue	nte:		
u. Generally describe processes of activities involving in	azardous wastes of constitue	nts		
<i>iii.</i> Specify amount to be handled or generated to <i>iv.</i> Describe any proposals for on-site minimization, recommendation of the control of the contr		aanstituants		
iv. Describe any proposais for on-site minimization, rec	yening of feuse of flazardous	constituents.		
v. Will any hazardous wastes be disposed at an existing If Yes: provide name and location of facility:			□Yes□No	
if res. provide name and location of facility.				
If No: describe proposed management of any hazardous v	wastes which will not be sent	to a hazardous waste facilit	y:	
E. Site and Setting of Proposed Action				
E.1. Land uses on and surrounding the project site				
a. Existing land uses.				
i. Check all uses that occur on, adjoining and near the		1 (n on form)		
☐ Urban ☑ Industrial ☑ Commercial ☑ Resid ☑ Forest ☐ Agriculture ☐ Aquatic ☑ Other	(specify): Stewart Internationa		Base	
ii. If mix of uses, generally describe:	(speeny). eterrare memanena	Tanona Cana -		
The general mix of uses is characterized by uses associated with scattered residential uses.	a transportation corridor includir	ng transportation, industrial and	commercial uses, with	
scattered residential uses.				
b. Land uses and covertypes on the project site.				
Land use or	Current	Acreage After	Change	
Covertype	Acreage	Project Completion	(Acres +/-)	
<ul> <li>Roads, buildings, and other paved or impervious surfaces</li> </ul>	0.55	±26	+25.45	
• Forested	39.25	±11.95	-27.3	
Meadows, grasslands or brushlands (non-				
• Meadows, grasslands or brushlands (non- agricultural, including abandoned agricultural) 17.0 ±18.85 +1.85				
Agricultural	0	0	0	
(includes active orchards, field, greenhouse etc.)				
Surface water features	0	0	0	
<ul><li>(lakes, ponds, streams, rivers, etc.)</li><li>Wetlands (freshwater or tidal)</li></ul>	5.2	5.2	0	
Non-vegetated (bare rock, earth or fill)			-	
	0	0	0	
Other     Describe:				
Describe.				

c. Is the project site presently used by members of the community for public recreation?  i. If Yes: explain:	□Yes☑No
d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site?  If Yes,  i. Identify Facilities:	☐ Yes  No
e. Does the project site contain an existing dam?  If Yes:	□Yes☑No
i. Dimensions of the dam and impoundment:	
• Dam height: feet	
• Dam length: feet	
• Surface area: acres	
Volume impounded: gallons OR acre-feet	
ii. Dam's existing hazard classification:	
iii. Provide date and summarize results of last inspection:	
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility,	☐ Yes ✓ No
or does the project site adjoin property which is now, or was at one time, used as a solid waste management facili	
If Yes:	
i. Has the facility been formally closed?	☐Yes☐ No
If yes, cite sources/documentation:	
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:	
iii. Describe any development constraints due to the prior solid waste activities:	
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes:	☐ Yes  No
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurre	d: 
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any	✓ Yes No
remedial actions been conducted at or adjacent to the proposed site? Excavations have been completed to address so historic surface disposal activities. Soils to be determined by the complete of the proposed site?	
<i>i.</i> Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:	□Yes□No
☐ Yes – Spills Incidents database Provide DEC ID number(s):	
☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): ☐ Neither database	
<ul><li>ii. If site has been subject of RCRA corrective activities, describe control measures:</li></ul>	
<i>iii.</i> Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s): 336088, 336002, 336057	✓Yes□No
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):	

Site code 336088 is Stewart International Airport (South of the Proposed Development), which was previously used as an Air National Guard Base. Aqueous film-forming form (AFFF), in which perfluorooctanesulfonic acid (PFOS) is a key ingredient, has been used over the years at the airport to put out fires and in training exercises. PFOS was detected in groundwater, surface water and catch basins at the airport and in Lake Washington and its tributaries.

Site code 336002 and 336057 are in reference to the F&T Darrigo site located at 84 Lakeside Road (750 North of the Proposed Development). Hazardous wastes including spent cleaning solution from metal finishing, furniture stripping waste, battery waste containing lead, and septic waste were disposed of in the on-site lagoons from 1948 to 1985. Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were chromium, copper, lead, nickel, and zinc in soil. Remedial actions have successfully achieved soil cleanup objectives for commercial use. Remaining contamination at the site is being managed under a Site Management Plan.

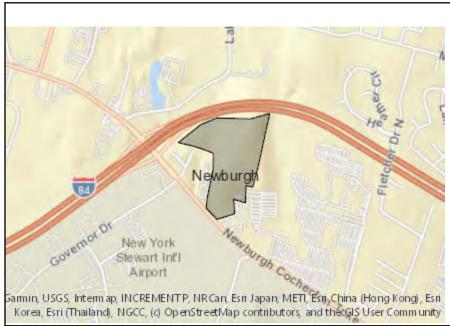
v. Is the project site subject to an institutional control limiting property uses?	☐ Yes  No
If yes, DEC site ID number:	
Describe the type of institutional control (e.g., deed restriction or easement):	
Describe any use limitations:	
Describe any engineering controls:	
• Will the project affect the institutional or engineering controls in place?	☐ Yes ☐ No
• Explain:	
E.2. Natural Resources On or Near Project Site	
a. What is the average depth to bedrock on the project site?15 feet	
b. Are there bedrock outcroppings on the project site?	☐ Yes ✓ No
If Yes, what proportion of the site is comprised of bedrock outcroppings?%	
	0/
c. Predominant soil type(s) present on project site: ESB - Erie extremely stony soils 20	
MdB - Mardin gravelly silt loam 24  SXC - Swartswood and Mardin soils 34	
	/0
	not encountered
e. Drainage status of project site soils: Well Drained:	
Moderately Well Drained: 100 % of site	
Poorly Drained0% of site	
f. Approximate proportion of proposed action site with slopes: 0-10%:	
$\square$ 10-15%: $\underline{}_{+20}$ % of site	
$\square$ 15% or greater: $\underline{+39}$ % of site	
g. Are there any unique geologic features on the project site?	☐ Yes ✓ No
If Yes, describe:	
If Yes, describe:	
h. Surface water features. *See note at bottom of page	
h. Surface water features. *See note at bottom of page  i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers,	✓Yes□No
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h. Surface water features. *See note at bottom of page  i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)?  ii. Do any wetlands or other waterbodies adjoin the project site?	✓Yes□No
h. Surface water features. *See note at bottom of page  i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)?  ii. Do any wetlands or other waterbodies adjoin the project site?  If Yes to either i or ii, continue. If No, skip to E.2.i.	<b>∠</b> Yes <b>N</b> o
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h. Surface water features. *See note at bottom of page  i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)?  ii. Do any wetlands or other waterbodies adjoin the project site?  If Yes to either i or ii, continue. If No, skip to E.2.i.  iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency?  iv. For each identified regulated wetland and waterbody on the project site, provide the following information:  • Streams: Name 862-136 Classification C  • Lakes or Ponds: Name 1/2 Classification C  • Wetlands: Name 1/2 Classification Approximate Size Wetland No. (if regulated by DEC) 1/2  v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies?  If yes, name of impaired water body/bodies and basis for listing as impaired:  i. Is the project site in the 100-year Floodplain?  k. Is the project site in the 500-year Floodplain?  l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? If Yes:	✓Yes No  Yes No  Yes ✓No  Yes ✓No  Yes ✓No  Yes ✓No
h. Surface water features. *See note at bottom of page  i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)?  ii. Do any wetlands or other waterbodies adjoin the project site?  If Yes to either i or ii, continue. If No, skip to E.2.i.  iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency?  iv. For each identified regulated wetland and waterbody on the project site, provide the following information:  • Streams: Name 862-136 Classification C  • Lakes or Ponds: Name n/a Classification  • Wetlands: Name Federal Waters, Federal Waters, Federal Waters, Approximate Size  • Wetland No. (if regulated by DEC) n/a  v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies?  If yes, name of impaired water body/bodies and basis for listing as impaired:  i. Is the project site in the 100-year Floodplain?  k. Is the project site in the 500-year Floodplain?  l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer?	✓Yes No  ✓Yes No  ✓Yes ✓No  ✓Yes ✓No  ✓Yes ✓No  ✓Yes ✓No  ✓Yes ✓No

\* Section E.2.h is automatically filled out through the NYSDEC EAF Mapper Generator. A wetland delineation is in the process of being complete. The proposed development shall not disturb any existing on-site wetlands. Any existing on-site wetlands will be protected during construction.  $p_{age\ 11\ of\ 13}$ 

T1 40 4 1 1 1 11110	4	
m. Identify the predominant wildlife specie	2 0	
white-tailed deer	grey squirrel	wild turkey
eastern cottontail	chipmunk	
various songbirds	groundhog	
n. Does the project site contain a designated	significant natural community?	<b>∠</b> Yes <b>N</b> o
If Yes:		
<i>i</i> . Describe the habitat/community (compo	sition, function, and basis for designation): _	
Red Maple-Hardwood Swamp		
ii. Source(s) of description or evaluation:	Regulatory map: NYSDEC EAF Mapper Generator	
iii. Extent of community/habitat:		
<ul><li>Currently:</li></ul>	1460.0 acre	S
<ul> <li>Following completion of project as</li> </ul>	proposed: acres	<b>S</b>
• Gain or loss (indicate + or -):	acres	
,		
	lant or animal that is listed by the federal gov	
endangered or threatened, or does it conta	in any areas identified as habitat for an endan	gered or threatened species?
If Yes:		
	ed):	
Indiana Bat, Upland Sandpiper		
n. Doos the project site centain any species	of plant or animal that is listed by NVC as re-	re, or as a species of Yes No
	of plant or animal that is listed by NYS as rai	e, or as a species of
special concern?		
If Yes:		
i. Species and listing:		· · · · · · · · · · · · · · · · · · ·
g. Is the project site or adjoining area currer	itly used for hunting, trapping, fishing or shell	fishing? Yes No
	oposed action may affect that use:	
ar yes, gree werrer description or now une pr		
E.3. Designated Public Resources On or	Near Project Site	
	•	
	ated in a designated agricultural district certif	ied pursuant to
Agriculture and Markets Law, Article 25		
If Yes, provide county plus district name/n	ımber:	
b. Are agricultural lands consisting of highly	v productive soils present?	☐Yes ✓ No
	y productive sons present.	
	f, or is it substantially contiguous to, a registe	red National □Yes ✓No
Natural Landmark?		
If Yes:		
	Biological Community Geologic	
ii. Provide brief description of landmark, i	ncluding values behind designation and appro	oximate size/extent:
1 0	oin a state listed Critical Environmental Area	? ☐Yes ✓ No
If Yes:		
_		
iii. Designating agency and date:		

<sup>\*</sup> Section E.2.n is automatically filled out through the NYSDEC EAF Mapper Generator, which looks at significant natural communities, as well as a 1/2 mile buffer. The significant natural community that was flagged through the EAF Generator, is the Red Maple-Hardwood Swamp, which is located 1,000 ft North of the project site (North of I-84). There are no significant natural communities located within the project site.

e. Does the project site contain, or is it substantially contiguous to, a bui which is listed on the National or State Register of Historic Places, or Office of Parks, Recreation and Historic Preservation to be eligible fo If Yes:  i. Nature of historic/archaeological resource:   Archaeological Site  ii. Name:  iii. Brief description of attributes on which listing is based:	that has been determined by the Commission	
f. Is the project site, or any portion of it, located in or adjacent to an are archaeological sites on the NY State Historic Preservation Office (SH	PO) archaeological site inventory? * See no	✓ Yes ☐No te at the f the page
g. Have additional archaeological or historic site(s) or resources been ide If Yes:		☐Yes <b>☑</b> No
i. Describe possible resource(s):ii. Basis for identification:		
h. Is the project site within fives miles of any officially designated and pascenic or aesthetic resource?  If Yes:  i. Identify resource: Stewart State Forest; Newburgh-Beacon Bridge/Hudson	publicly accessible federal, state, or local	<b>∠</b> Yes □No
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlocetc.): State forest land; State Scenic Road	ook, state or local park, state historic trail or	scenic byway,
<ul> <li>iii. Distance between project and resource:3_6 m</li> <li>i. Is the project site located within a designated river corridor under the Program 6 NYCRR 666?</li> <li>If Yes:</li> <li>i. Identify the name of the river and its designation:</li> </ul>	Wild, Scenic and Recreational Rivers	☐ Yes ✓ No
<i>ii.</i> Is the activity consistent with development restrictions contained in		□Yes□No
* Section E.3.f is automatically filled out through the NYSDEC EAI archaeological sensitive area surrounding the adjacent Newburgh		n isolated ———
<b>F. Additional Information</b> Attach any additional information which may be needed to clarify you	r project.	
If you have identified any adverse impacts which could be associated measures which you propose to avoid or minimize them.	with your proposal, please describe those im	apacts plus any
<b>G. Verification</b> I certify that the information provided is true to the best of my knowle	dge.	
Applicant/Sponsor Name Sponsor - Langan (W. Charles Utschig Jr., PE)	Date_October 11, 2023	·
Signature	Title Senior Associate	



**Disclaimer:** The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	336088, 336002, 336057
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	862-136
E.2.h.iv [Surface Water Features - Stream Classification]	С
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No

E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	No
E.2.I. [Aquifers]	No
E.2.n. [Natural Communities]	Yes
E.2.n.i [Natural Communities - Name]	Red Maple-Hardwood Swamp
E.2.n.i [Natural Communities - Acres]	1460.0
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Indiana Bat, Upland Sandpiper
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No



October 12, 2023

Chairman John Ewasutyn and Planning Board Members Town of Newburgh Planning Board Town of Newburgh Town Hall 1496 Route 300 Newburgh, NY 12550

Re: Matrix I-84 Distribution Center

226 Route 17K

Town of Newburgh, New York

PB No. 2022-29

Langan Project No.: 190063302

Dear Chairman Ewasutyn and Planning Board Members:

The following is an itemized response to the Town Planning Board Consultant comments for the above referenced application (comments are italicized and our responses are in bold text):

Comment 1. Design Comments. The design of the plantings along the road was a neat strip of

Karen Arent, Landscape Architect Review Comments dated September 20, 2023

lawn leading up to a 30-36" height stone wall in line with Newburgh design guidelines with thick layered plantings of meadow mix, understory shrubs and trees, and forested shade trees, all working together to create a manicured edge near the road with more naturalized screen planting further into the site. A stone wall, 30" in height, is shown at the mouth of the site, many of the previously proposed understory plantings are missing, and there is a large gap between proposed tree plantings, undermining the design that was a large selling point of the project. Additionally, a detail for the wall is referenced in the response letter but no detail has been included in the latest plan set. Provide details for the proposed stone retaining wall. The board should determine whether the length of stone wall is sufficient. Regardless, add understory plantings and additional trees

and the previous submission in July.

Response:

There is an existing drainage way that traverses the property frontage from west to east. Wetland C drains through an existing 8-inch culvert and an existing 15-inch culvert before getting to the existing 39"x27" culvert that discharges water from the site to the other side of Route 17K. The culverts onsite are undersized in the existing condition which means larger culverts are being proposed. There are three 15-inch RCP culverts under the proposed driveway. In the proposed condition, water will flow from Wetland C,

in the planting bed along the road to fill in the gaps, returning the design to the original intent and to mesh the site design with the well-landscaped properties along 17K. See Figures 1 and 2 for comparison of design between the submission

through the new driveway culverts, and ultimately leave the site through the current discharge point. The discharge from detention basin B will also merge with this waterway. The current proposed plan balances protection of the existing wetland, front yard buffer landscaping, a defined waterway for stormwater runoff, and the entrance walls. With the addition of the entrance walls, the hedge rows were removed, however front buffer trees were not removed. The two rows of front buffer plantings were shifted to provide a defined waterway and to protect plantings from inundation. The western entrance wall length is limited by the proposed driveway culvert and existing wetland. It is proposed to be ±60-LF. The eastern entrance wall length is also limited by the proposed driveway culvert. It is proposed to be ±100-LF. A detail of the stone retaining wall is included on Drawing CS502.

Comment 2.

Mitigating Impacts with Trees. Tree plantings are vital as they provide a wealth of benefits and methods of mitigating impacts of new developments. For the board's information, list of benefits of trees can be found at the end of this comment. On a site where 26 acres of trees are being removed, we do not believe enough trees have been added to the plan (147 deciduous trees and 65 evergreen trees are proposed). Although there is a net gain of 11 deciduous trees on the latest submitted plans, many understory plantings were removed from the planting beds along the road and there is now a large gap between layers of trees there. The view from the road provides the strongest and most immediate visual impact on the site. Eleven additional trees will do nothing to mitigate impacts of the site. It is our recommendation to add many more trees to mitigate impacts of the proposed development. Trees can be small in size and planted along steep hills and around the dry detention basins. Our recommendation after speaking with the landscaper for the Route 300 site that 1-1 1/2" trees are manageable to plant on slopes, are installed at a height tall enough to withstand competition from herbaceous meadow plants and will have a good survival rate if tree species tolerant of compacted soils are selected.

### Response:

The proposed planting plan includes all front buffer planting, basin planting, and parking lot planting as required. In addition, we have included additional accent planting at the office entrances and as a means of buffering between adjacent neighbors and have included the planting of restoration sized trees along the upper hill, all as a means of providing additional trees throughout the site.

As noted in the comment above, some understory planting has been removed to install the front entrance walls, however, all trees in this area were not removed. There was some shifting of these trees to accommodate the waterways, and there will be an understory of meadow mix to stabilize the ground and fill in the space between trees. We believe that these shifts in the front buffer trees add the visual mitigation by creating a more layered tree planting between the development and the road.

Comment 3. In our experiences at the Matrix site along Route 300, as well as in other locations in the Town of Newburgh, invasive vines have run rampant and pose a large risk to trees. Vines will quickly grow up trunks, suffocating trees and blocking out the

sun. Because trees are proposed within meadow areas at the front of the site, especially along the road, and because they are such a large part of the design, there needs to be more aggressive weed control during establishment of meadow plantings and during the life of the meadow. Please note along Route 84 between the road and the river there are large masses of dead trees which were choked out by invasive vines. This is present in other locations in Newburgh as well. We recommend a 5-10 year pest management control to remove any of the very dangerous invasive vines.

### Response:

Weed eradication will be done prior to the installation of meadow mix throughout the site per the meadow mix notes. All installed plant material will be maintained through construction and for a period of two years following installation for allow for establishment of plant material. Maintenance beyond the establishment period will be continual via a landscape company retained by the owner.

Comment 4. Additional notes regarding replacement of washed-out soil, not just mulch, must be added to the plans. It is imperative to have a strategy in place for washed out soils to avoid erosion in the landscape and to ensure plants have sufficient depth of soil needed to thrive.

### Response:

Instances of washed out soil shall be addressed as part of the erosion and sediment control measures on site. Additional notes have been added to confirm that washed soil is addressed in the Stabilization of Disturbed Surfaces Notes on Sheet CS002.

Comment 5.

Updated details for Bioretention Basins were not included in this submission. Provide details for the basins which reflect previously issued comment 7.

### Response:

The bioretention detail on Drawing CS505 has been revised.

Comment 6.

There has not been a chance to review the locations of the sample plots, that they are in ideal locations and that they sufficiently represent density, species, and sizes of trees within the wooded areas on site. Please let us know how and if the plots are marked so an inspection can be performed.

### Response:

As was noted in previous letters, the plots are surveyed and were marked with flags in the field for review.

If you have any questions or require any additional information, please do not hesitate to contact this office.



Respectfully submitted,

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

W. Charles Utschig, Jr. PE Associate

WCU:mj

cc: Matrix Companies

# TOWN OF NEWBURGH APPLICATION FOR CLEARING AND GRADING

Name of applicant:	Matrix Newburgh Route 17K Development, LLC					
Name of owner on premises:	Manheim Remarketing, Inc./Matrix Newburgh Route 17K Development, LLC					
Address of owner:	722 524 2000					
Telephone number of owner:						
- Telephone number of applica	nt: 732 521-2900					
<del>-</del> -	ner, lessee, agent, architect, engineer or contractor: purchaser under contract for portion of SBL 89-1-69.11 and SBL 86-1-97					
Location of land on which pro Newburgh Toyota SBL 89-1-66, 8						
Section: see above Block: _	Lot: Sub. Div.:					
Zoning District of Property:	IB Size of Lot: 62 acres					
Area of lot to be cleared or gra	aded: 27.3 acres cleared, 44.5 acres total graded and disturbed					
Proposed completion of date:	F-11045-4 2024/2025					
Name of contractor/agent, if d	lifferent than owner:TBD					
Address:	TBD					
Telephone number:	TBD					
Date of Planning Board Appr	oval: Review concurrent with site plan (if required)					
	wn of Newburgh harmless from any claims arising					
from the proposed activity.						
Signature of owner:	Date: 10/11/23					
Signature of applicant (if diffe	erent than owner):					
TOWN ACTION:						
Examined:	20					
Approved:						
Disampared						



October 02, 2023

Chairman John Ewasutyn and Planning Board Members Town of Newburgh Planning Board Town of Newburgh Town Hall 1496 Route 300 Newburgh, NY 12550

Re: Matrix I-84 Distribution Center

226 Route 17K

Town of Newburgh, New York

PB No. 2022-29

Langan Project No.: 190063302

Dear Chairman Ewasutyn and Planning Board Members:

At the planning board meeting on September 21, 2023, a negative declaration was issued for the above mentioned project. The purpose of this letter is to clarify an impact regarding question D.2. a., which states "Does the proposed action include any excavation, mining, dredging, during construction, operations, or both?" The answer had been checked off as no and the Town subsequently classified this item a small impact. Pat Hines noted at the planning board meeting that this indicated the site would be balanced from a cut/fill perspective. Balancing the site was a design objective but various constraints led to a final site design that we and our contractor have determined to require an export of material.

Multiple factors influenced the finished floor elevation of the proposed building including but not limited to retaining wall heights, the FAA application, entrance road grade limitations, and getting the development as close to a balanced site as possible. Ultimately, the building elevation of 569.5 was accepted by the FAA and satisfied other design criteria which generates a net export for the site. There is approximately 160,000 CY of export (90,000 CY of topsoil and 70,000 CY of general fill) expected to be produced.

It is anticipated that 15 dump trucks per day will each drive 8 round trips for a total of 120 truck trips in, 120 trips out. This will be required over an 8-hour workday for this export until the site is brought to its final grade. The primary travel route will be to / from I-84. The truck trips generated are nominal and will be accommodated on the construction access and adjacent road. Not only will there be fewer dump truck trips during export than WB-64 truck trips when the building is operational, but the smaller truckers have less of a traffic impact than the larger trucks.

Revised grading plans, included with this letter, have been produced to place additional fill onsite, in efforts to reduce export to the greatest extent possible. The revised plan places additional fill in two areas: in between retaining wall 1 and 1A, as shown on CG101, and to the west of retaining wall 1, as shown on Sheet CG102. The additional fill placed in between retaining wall 1 and 1A, reduces the need for ±160-If of wall which allows access for maintenance of the 3:1 sloped area. Maintenance access paths are provided around the slope. This space, which was previously inaccessible, is proposed as lawn now that it is an accessible and maintainable area. Additional fill has also been placed to west of retaining wall 1, as shown on CG102. The construction of this 3:1 slope will increase the limit of disturbance an additional ±1.2 acres, which is less than 2% of the entire parcel. Additional clearing and grading is required, however the proposed development will remain in compliance with the Town's tree ordinance. Clearing restrictions previously required for this project will apply. A 30-ft minimum wooded buffer is maintained in this area to mitigate any visual impact to the adjacent commercial property. A revised SWPPP will be submitted prior to the public hearing encompassing the additional tree clearing, however the impacts will not affect the overall stormwater design of the project. The additional slope will runoff to an existing drainage path along the property line, as it does in existing conditions. The bottom of ditch is ±6-10-ft below the bank on the adjacent property, therefore there are no concerns of runoff impacting the adjacent property.

In conclusion, no significant impacts are generated from this change and, as a result, these revisions are covered by the previous Neg Dec.

If you have any questions or require any additional information, please do not hesitate to contact this office.

Respectfully submitted,

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Lawcen Mc Makon

Lauren McMahon, PE Project Manager

LM:Im

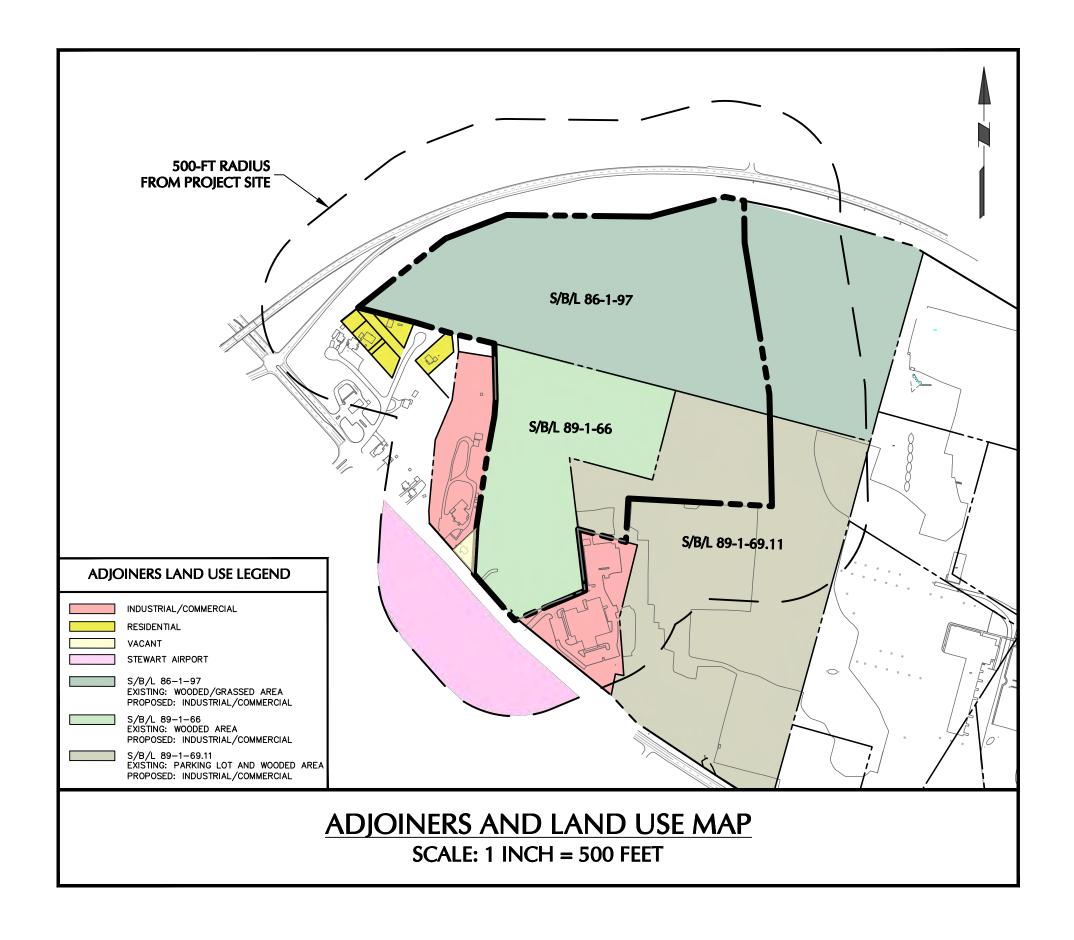
cc: Patrick Hines, MHE Engineering, D.P.C., Ken Wersted, Creighton Manning Engineering, LLP Ken Griffin and Ray Aquino, Matrix Companies Chuck Utschig, Langan Engineering

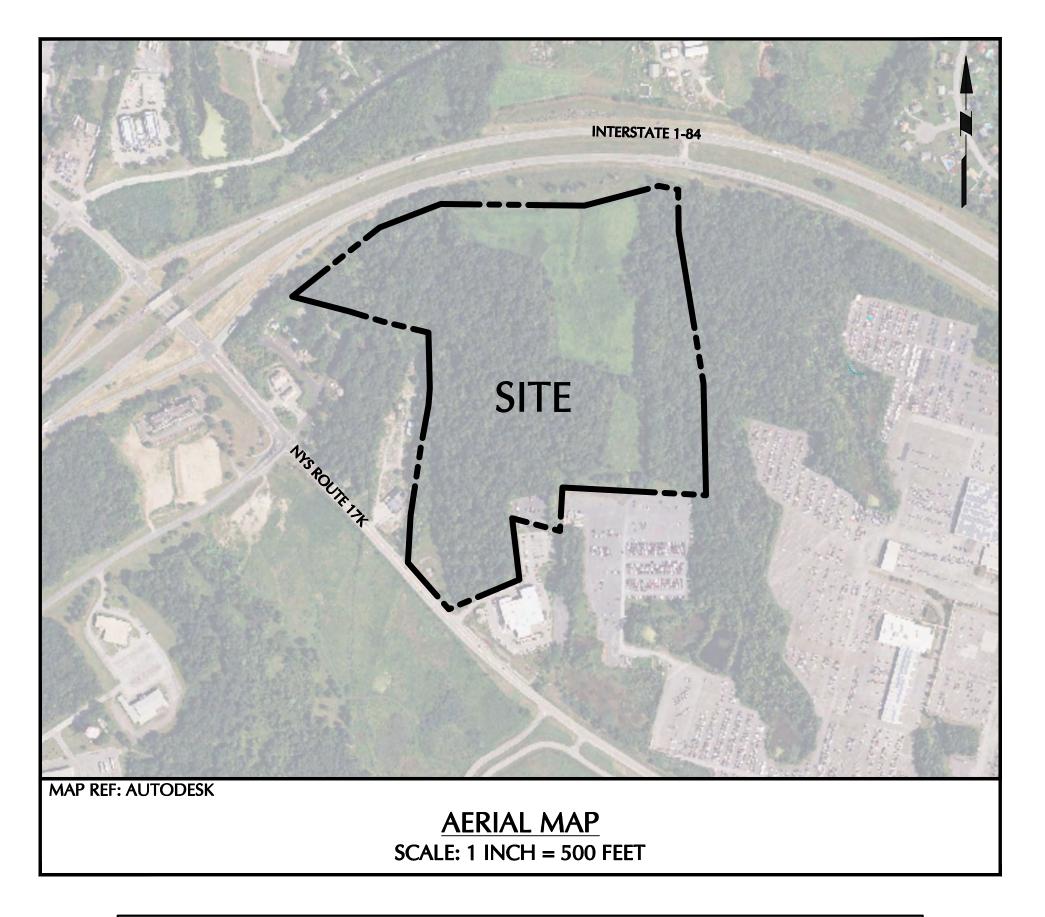
\\langan.com\data\\\P\W\data\\19063302\\Project Data\\Correspondence\Letters\\2023-10-02 Matrix I-84 SEQR Clarification - Export Letter.docx

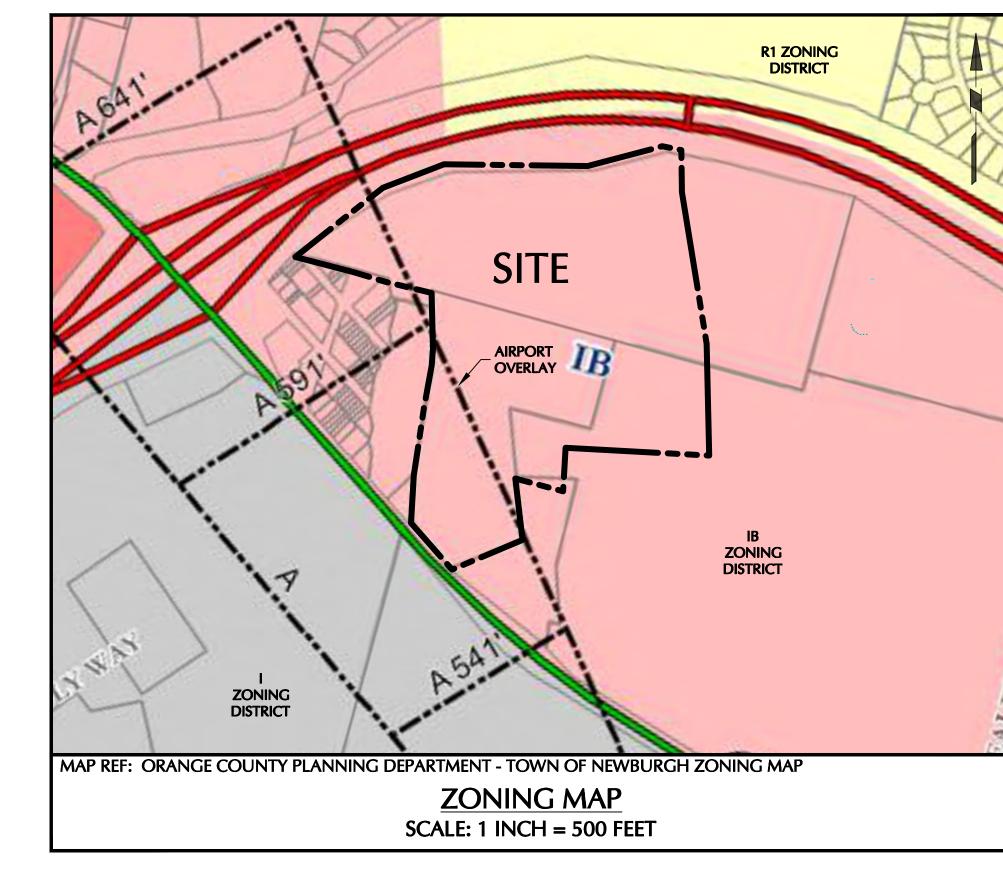


# SITE PLAN APPROVAL DOCUMENTS FOR MATRIX I-84 DISTRIBUTION CENTER

TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK SECTION 89, BLOCK 1, LOTS 66 AND 69.11; SECTION 86, BLOCK 1, LOT 97 PLANNING BOARD PROJECT No: 2022-29





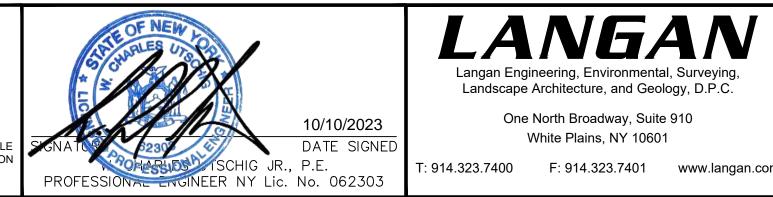


DRAWING LIST				
RAWING NO.	SHEET NO.	DRAWING TITLE		
CS001	1 OF 45	COVER SHEET		
CS002	2 OF 45	LEGEND & NOTES		
CD100	3 OF 45	EXISTING CONDITIONS AND SITE REMOVALS PLAN		
CB100	4 OF 45	LOT LINE CHANGE (1 OF 2)		
CB200	5 OF 45	LOT LINE CHANGE (2 OF 2)		
CS100	6 OF 45	OVERALL SITE PLAN		
CS101	7 OF 45	SITE PLAN (1 OF 2)		
CS102	8 OF 45	SITE PLAN (2 OF 2)		
CS200	9 OF 45	EMERGENCY ACCESS ROUTE		
CS300	10 OF 45	MANHEIM ZONING ANALYSIS		
TM100	11 OF 45	TRUCK TURNING MOVEMENT PLAN		
CP100	12 OF 45	PAVEMENT PLAN		
CG100	13 OF 45	OVERALL GRADING PLAN		
CG101	14 OF 45	GRADING PLAN (1 OF 2)		
CG102	15 OF 45	GRADING PLAN (2 OF 2)		
CG201	16 OF 45	ROADWAY PROFILE		
CG301	17 OF 45	SITE SECTIONS		
CG400	18 OF 45	OVERALL DRAINAGE PLAN		
CG401	19 OF 45	DRAINAGE PLAN (1 OF 2)		
CG402	20 OF 45	DRAINAGE PLAN (2 OF 2)		
CG501	21 OF 45	DRAINAGE PROFILES (1 OF 2)		
CG502	22 OF 45	DRAINAGE PROFILES (2 OF 2)		
CU100	23 OF 45	OVERALL UTILITY PLAN		
CU101	24 OF 45	UTILITY PLAN (1 OF 2)		
CU102	25 OF 45	UTILITY PLAN (2 OF 2)		
CU201	26 OF 45	SANITARY SEWER PROFILE		
CU202	27 OF 45	WATERMAIN PROFILE PHASING PLAN		
CE100	28 OF 45	EROSION & SEDIMENT CONTORL PLAN (1 OF 2)		
CE101 CE102	29 OF 45 30 OF 45	EROSION & SEDIMENT CONTROL PLAN (1 OF 2)		
CS501	31 OF 45	SITE DETAILS (1 OF 2)		
CS502	32 OF 45	SITE DETAILS (2 OF 2)		
CS502 CS503	33 OF 45	WATER DETAILS		
CS504	34 OF 45	SEWER DETAILS		
CS505	35 OF 45	DRAINAGE DETAILS (1 OF 2)		
CS506	36 OF 45	DRAINAGE DETAILS (2 OF 2)		
CS507	37 OF 45	EROSION & SEDIMENT CONTROL DETAILS		
00001		ANDSCAPE ARCHITECTURE DRAWINGS		
LP100	38 OF 45	OVERALL PLANTING PLAN		
LP101	39 OF 45	PLANTING PLAN (1 OF 2)		
LP102	40 OF 45	PLANTING PLAN (2 OF 2)		
LP501	41 OF 45	PLATING NOTES AND DETAILS		
LL100	42 OF 45	OVERALL SITE LIGHTING PLAN		
LL101	43 OF 45	SITE LIGHTING PLAN (1 OF 2)		
LL102	44 OF 45	SITE LIGHTING PLAN (2 OF 2)		
LL501	45 OF 45	SITE LIGHTING NOTES AND DETAILS		
<u> </u>		TREE PRESERVATION DRAWINGS		
TP100	1 OF 6	OVERALL TREE PRESERVATION PLAN		
TP101	2 OF 6	TREE PRESERVATION PLAN - TILE 1		
TP102	3 OF 6	TREE PRESERVATION PLAN - TILE 2		
TP103	4 OF 6	TREE PRESERVATION PLAN - TILE 3		
TP104	5 OF 6	TREE PRESERVATION PLAN - TILE 4		
TP105	6 OF 6	TREE PRESERVATION PLAN - TILE 5		



TOWN OF NEWBURGH APPROVAL BOX **TOWN PROJECT # 2022-29** PLANNING BOARD CHAIRPERSON JOHN P. EWASUTYN

10/12/2023 PLANNING BOARD SUBMISSION 8/28/2023 | PLANNING BOARD SUBMISSION **WARNING:** IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLI Description 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR Revisions GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.



Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C. One North Broadway, Suite 910 White Plains, NY 10601

**MATRIX I-84** DISTRIBUTION CENTER SECTION No. 86, BLOCK No. 1, LOT No. 97 SECTION No. 89, BLOCK No. 1, LOT No. 66 and 69.11 TOWN OF NEWBURGH

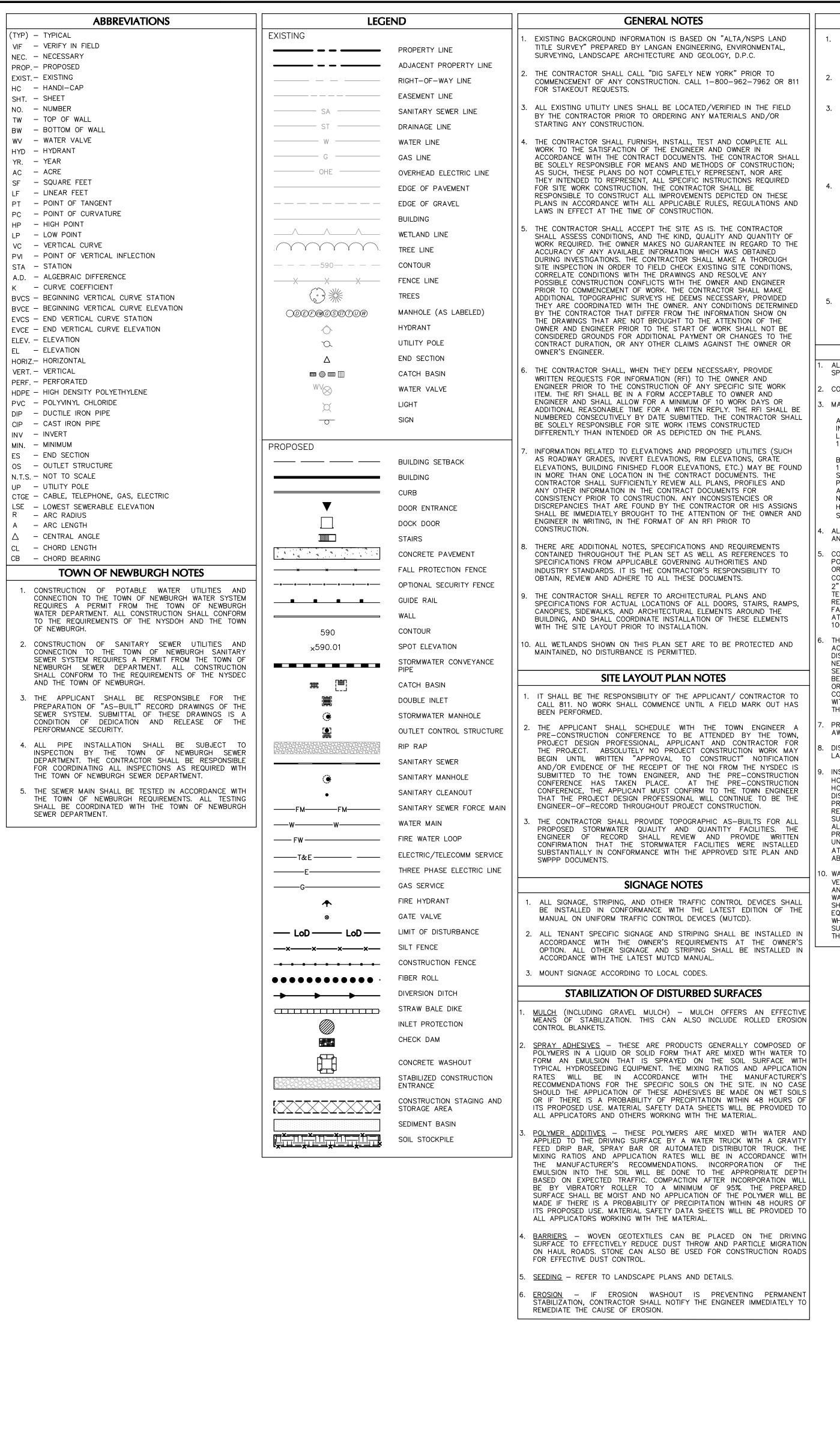
**NEW YORK** 

ORANGE COUNTY

**COVER SHEET** 

190063302 CS00 Checked By

Date: 10/10/2023 Time: 16:29 User: brchambers Style Table: Langan.stb Layout: CS001 Document Code: 190063302-0501-CS001-0101



UNLESS INDICATED OTHERWISE ON PLANS. ORDINANCES, AND STATUTES. CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK. OTHER HAZARDOUS MATERIALS. CONTROL MEASURES AND MAKING REQUIRED NOTIFICATIONS. SPECIFICATIONS AND ORDINANCES. CONTRACTOR SHALL SECURE ALL PERMITS AT HIS/HER OWN EXPENSE. MATERIAL FOR WATERMAINS: SPECIFICATION C 151 LATEST REVISION FOR HYDRANT ASSEMBLIES. THE TOWN ENGINEER A MINIMUM OF 24 HOURS PRIOR TO SAMPLING. AWWA C-600 STANDARDS. LATEST REVISION. THE TABLET METHOD IS NOT ALLOWED. HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER MAIN. ABOVE THE TOP OF THE SEWER. THE WATER MAIN.

**DEMOLITION NOTES** 

WATER NOTES

CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SPECIFICATIONS AND ORDINANCES. SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING STRUCTURES, PAVEMENTS, SLABS, FENCES, UTILITY POLES, SIGNS, ETC. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATION, THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY REMOVAL, ABATEMENT, OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES, OR POLLUTANTS AT THE PROJECT SITE, THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS. DAMAGE EXPENSE, DELAY, INJURY, OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER. THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVER, REMOVAL, ABATEMENT, OR DISPOSAL OR ASBESTOS OR THE CONTRACTOR SHALL VERIFY THAT A SOIL EROSION AND SEDIMENT CONTROL PERMIT HAS BEEN OBTAINED FOR DEMOLITION ACTIVITIES. CONTRACTOR SHALL COMPLY WITH THE CONDITIONS THEREON BY INSTALLING AND MAINTAINING ALL SOIL EROSION AND SEDIMENT ALL CONSTRUCTION TO COMPLY WITH CURRENT TOWN OF NEWBURGH A) POLY-VINYL CHLORIDE (P.V.C.) PLASTIC MUNICIPAL WATER PIPE WITH INTEGRAL BELL AND SPIGOT JOINTS, PIPE SHALL CONFORM TO LATEST REVISION OF AWWA C-900 SPECIFICATION AND SHALL BE CLASS | | B) CEMENT LINED DUCTILE IRON PIPE MINIMUM THICKNESS CLASS 52 WITH PSI WORKING PRESSURE AND SHALL CONFORM TO AWWA PIPE SHALL BE ENCASED WITH A MINIMUM 8 MIL. POLYETHYLENE WRAP. AS PER AWWA C 105 SPECIFICATION. TYPE MECHANICAL JOINT TEES AND NIPPLES. HYDRANTS SHALL BE PLACED A MAXIMUM OF 500± APART. HYDRANTS SHALL BE "BAGGED" UNTIL READY FOR USE. HYDRANTS SHALL OPEN COUNTERCLOCKWISE [LEFT], AND CLOSE CLOCKWISE RIGHT. ALL FIELD INSTALLED BOLTS SHALL BE CAPPED WITH SACRIFICIAL ZINC CONTRACTOR WILL BE RESPONSIBLE TO FURNISH AND INSTALL TEST POINTS AT THE APPROXIMATE LOCATIONS AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE TOWN ENGINEER. THE TEST POINTS SHALL CONSIST OF A 1" OR 2" CORPORATION STOP, AND THE NECESSARY 1" OR 2" COPPER PIPE TO ADEQUATELY CONDUCT THE REQUIRED TESTS. AFTER TESTING HAS BEEN COMPLETED AND APPROVED, THE CONTRACTOR SHALL REMOVE THE CORPORATION STOPS AND INSTALL STANDARD AWWA FACTORY THREADED BRASS PLUGS. SAMPLE POINTS SHALL BE LOCATED AT THE BEGINNING AND END OF EACH LINE WITH A MAXIMUM SPACING OF THE WATER MAIN SHALL BE TESTED, DISINFECTED, AND FLUSHED I ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION, AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO PUTTING THE WATER MAIN IN SERVICE SATISFACTORY TESTING RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT AND ORANGE COUNTY HEALTH DEPARTMENT. THE TEST SAMPLES MUST OLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT. THE CONTRACTOR SHALL NOTIFY PRESSURE AND LEAKAGE TEST SHALL BE DONE IN ACCORDANCE WITH DISINFFCTION SHALL BE COMPLETED IN ACCORDANCE WITH AWWA C651, INSTALLATION SHALL COMPLY WITH THE 2018 "TEN STATES STANDARDS." HORIZONTAL SEPARATION-WATERMAIN SHALL BE LAID AT LEAST 1 DISTANCE SHALL BE FROM EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION. THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE BY CASE BASIS. I SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE WATERMAIN CLOSER TO A SEWER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH. OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" WATERMAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE TH WATER MAIN IS EITHER ABOVE, OR BELOW THE SEWER. THE CROSSINGS SHALL BE ARRANGED SO THAT THE WATERMAIN JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM SEWER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE 1

MATERIALS FOR SANITARY SEWER: AND FORCEMAIN SHALL BE PVC SDR-21. B. EQUAL APPROVED BY TOWN ENGINEER. WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER. THE WATER MAIN. WITHIN TWO WEEKS OF THE DATE OF NOTIFICATION. NEWBURGH REQUIREMENTS AND ASTM C-1244, LATEST VERSION. NEWBURGH REQUIREMENTS AND AWWA C900, LATEST VERSION. OF NEWBURGH. THE TOWN OF NEWBURGH SEWER DEPARTMENT. GASKET CONFORMING ASTM D-3212. FITTINGS SHALL BE AS BELL AND SPIGOT CONFIGURATION COMPATIBLE WITH THE PIPE. THE TOWN OF NEWBURGH SEWER DEPARTMENT. THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER APPROVAL OF THE WATER DEPARTMENT. COMPACT FITTINGS, LATEST REVISION. CONFORMING TO ANSI\AWWA C509 SUCH AS MUELLER MODEL (COUNTERCLOCKWISE). ALL HYDRANTS SHALL BE CLOW-EDDY F-2640 CONFORMING TO AWWA STANDARD C502, LATEST REVISION. ALL HYDRANTS SHALL INCLUDE A 5 1/4 INCH MAIN VALVE OPENING, TWO 2 1/2 INCH DIAMETER NPT HOSE NOZZLES, ONE 4 INCH NPT STEAMER NOZZLE, A 6 INCH DIAMETER INLET CONNECTION AND A 1 ½ INCH PENTAGON OPERATING NUT. ALL HYDRANTS SHALL OPEN LEFT (COUNTER-CLOCKWISE). HYDRANTS ON MAINS TO BE DEDICATED TO THE TOWN SHALL BE EQUIPMENT YELLOW. HYDRANTS LOCATED ON PRIVATE PROPERTY SHALL BE RED. ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-15020N FOR ¾ AND 1 INCH, MUELLER H-15000N OR B-25000N FOR 1 1/2 AND 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1502-2N FOR 34 AND 1 INCH AND MUELLER B-25204N FOR 1 ½ AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10314N FOR ¾ AND 1 INCH AND MUELLER H-10310N FOR 1 ½ AND 2 INCH SIZES. ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. . THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE SATISFACTORY SANITARY RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT, THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE . THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND/OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND OR SEWER CONNECTION. UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT.

SEWER NOTES ALL CONSTRUCTION TO COMPLY WITH CURRENT TOWN OF NEWBURGH CONTRACTOR SHALL SECURE ALL PERMITS AT HIS OWN EXPENSE. A. POLYVINYL CHLORIDE (P.V.C) SANITARY SEWER PIPE WITH INTEGRAL BELL AND SPIGOT JOINTS, PÍPE SHALL CONFORM TO ASTM D3034, SPECIFICATION LATEST REVISION. GRAVITY SEWER SHALL BE PVC SDR-35 HORIZONTAL SEPARATION: SEWERS SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE TEN FOOT SEPARATION THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE BY CASE BASIS. IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH, OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE CROSSINGS-SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE ! A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE, OR BELOW THE SEWER. THE CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM WATERMAIN JOINTS. WHERE | A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO ALL TRENCHING IN THE ROW SHALL BE RESTORED TO ORIGINAL CONDITION NOTWITHSTANDING SATISFACTORY TEST RESULTS. IF EXCESSIVE INFILTRATION IS DISCOVERED WITHIN TWO YEARS OF ACCEPTANCE OF THE SEWER SYSTEM, THE CONTRACTOR WILL BE REQUIRED TO CORRECT THE SITUATION. THE CONTRACTOR SHALL, UPON WRITTEN NOTICE FROM THE ENGINEER. TAKE THE NECESSARY STEPS TO CORRECT THE LEAK AT NO ADDITIONAL COST TO THE OWNER. SUCH WORK SHALL BE ACCOMPLISHED GRAVITY SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS AND ASTM F-1417, LATEST VERSION. SEWER MANHOLES SHALL BE TESTED IN ACCORDANCE WITH THE TOWN OF FORCEMAIN SHALL BE TESTED IN ACCORDANCE WITH THE TOWN OF TOWN OF NEWBURGH SEWER NOTES CONSTRUCTION OF SANITARY SEWER FACILITIES AND CONNECTION TO THE TOWN OF NEWBURGH SANITARY SEWER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH SEWER DEPARTMENT. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDEC AND THE TOWN ALL SEWER PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH SEWER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH ALL GRAVITY SANITARY SEWER SERVICE LINES SHALL BE 4 INCHES IN DIAMETER OR LARGER AND SHALL BE SDR-35 PVC PIPE CONFORMING T ASTM D-3034-89. JOINTS SHALL BE PUSH-ON WITH ELASTOMERIC RING MANUFACTURED BY THE PIPE SUPPLIER OR EQUAL AND SHALL HAVE A THE SEWER MAIN SHALL BE TESTED IN ACCORDANCE WITH TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING SHALL BE COORDINATED WITH CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND/OR SEWER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT. TOWN OF NEWBURGH WATER NOTES "CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE FOWN OF NEWBURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDOH AND THE TOWN ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT LINED CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSI\AWWA C151\A21.51 FOR DUCTILE IRON PIPE, LATEST REVISION. JOINTS SHALL BE EITHER PUSH-ON OR MECHANICAL JOINT AS REQUIRED. THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCKS ARE NOT ACCEPTABLE. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. RETAINER GLANDS SHALL BE EBBA IRON MEGALUG SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON, MECHANICAL JOINT, CLASS 250 AND CONFORM TO ANSI\AWWA C110\A21.10 FOR DUCTILE AND GRAY IRON FITTINGS OR ANSI\AWWA C153\A21.53 FOR DUCTILE IRON ALL VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES A-2360-23 OR APPROVED EQUAL. ALL GATE VALVES SHALL OPEN LEFT TAPPING SLEEVE SHALL BE MECHANICAL JOINT SUCH AS MUELLER H-615 OR EQUAL. TAPPING VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI\AWWA C509 SUCH AS MUELLER MODEL T-2360-19 OR APPROVED EQUAL. ALL TAPPING SLEEVES AND VALVES SHALL BE TESTED TO 150 PSL MINIMUM: TESTING OF THE TAPPING SLEEVE AND VALVE MUST BE WITNESSED AND ACCEPTED L BY THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO CUTTING

**EROSION & SEDIMENT CONTROL NOTES** 

ADDITIONAL REQUIREMENTS.

REFER TO THE SPDES GENERAL PERMIT COMPLIANCE NOTES FOR | 1

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT

PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL EROSION AND

PLANS. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE |

THE SCOPE AND DURATION OF SOIL DISRUPTION. EXISTING VEGETATION

SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH TH

THE CONTRACTOR AND THEIR SUBCONTRACTOR(S) SHALL IDENTIFY THE

IMPLEMENTATION AND MAINTENANCE OF THE EROSION AND SEDIMENT

PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES

TRAINED INDIVIDUAL THAT WILL BE RESPONSIBLE FOR

CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.

FOR EROSION AND SEDIMENT CONTROL", LATEST REVISIONS.

SHALL BE PRESERVED AS MUCH AS IS PRACTICAL.

COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS

OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION TRAINED INDIVIDUAL(S) THAT WILL BE RESPONSIBLE FOR TH ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE IMPLEMENTATION AND MAINTENANCE OF THE SWPPP. THE TRAINED | BULK GRADING CONSTRUCTION INDIVIDUAL(S) SHALL READ AND SIGN THE CERTIFICATION STATEMENT PROVIDED IN THE SWPPP. A COPY OF THE SIGNED CERTIFICATION DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND STATEMENT SHALL BE PLACED IN THE SITE LOG BOOK AND GIVEN TO THE SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS TOWN FOR THEIR RECORDS. AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES. ). THE TRAINED INDIVIDUAL(S) SHALL PROVIDE DOCUMENTATION THAT STOCKPILED TOPSOIL SHALL BE TEMPORARILY SEEDED, MULCHED, AN HE/SHE HAS RECEIVED TRAINING IN PROPER EROSION AND SEDIMENT FNCI OSFD WITH SILT FENCING. ALL GRASS SEED WILL CONTAIN AT CONTROL PRINCIPLES FROM A SOIL AND WATER CONSERVATION DISTRICT, LEAST 25 PERCENT RAPID GERMINATING PERENNIAL RYE GRASS. OR OTHER NYSDEC ENDORSED ENTITY TO THE TOWN FOR THEIR RECORDS. EROSION AND SEDIMENT CONTROL INSPECTIONS: THE CONTRACTOR SHALL OBTAIN ALL REQUIRED CONSTRUCTION PERMITS NECESSARY FOR THE WORK OUTLINED HEREIN. A. THE TRAINED INDIVIDUAL SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS TO ENSURE PROPER THE TRAINED CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION PERFORMANCE. ANY SEDIMENT BUILD-UP SHALL BE CLEANED. AL OF ALL STORMWATER POLLUTION PREVENTION MEASURES OUTLINED IN DAMAGES TO EROSION AND SEDIMENT CONTROLS SHALL BE REPAIRED THE SWPPP AND PROJECT PLANS. EITHER AT THE BEGINNING OR AT THE END OF EACH WORKING DAY. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE QUALIFIED INSPECTOR SHALL CONDUCT SITE INSPECTIONS EVERY THE OWNER (AND/OR OWNER'S REPRESENTATIVES), TRAINED INDIVIDUAL(S). 7 DAYS DURING CONSTRUCTION. ANY DEFICIENCIES NOTED IN THE TOWN ENGINÈER, TOWN WATER SUPERINTENDENT, AND THE QUALIFIED REPORTS SHALL BE CORRECTED IMMEDIATELY BY THE CONTRACTOR. PROFESSIONAL AT LEAST ONE WEEK PRIOR TO COMMENCEMENT O :. IF SOIL DISTURBANCE ACTIVITIES ARE SUSPENDED FOR WINTER SHUTDOWN, TEMPORARY STABILIZATION MEASURES WILL BE APPLIED . THE CONTRACTOR OR OWNER SHALL HAVE THE QUALIFIED PROFESSIONAL TO ALL DISTURBED AREAS. IN THIS CASE AND SUBJECT TO TH AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT, CONDUCT AN APPROVAL OF THE NYSDEC AND THE TOWN, THE FREQUENCY INITIAL SITE ASSESSMENT AND CERTIFY THAT THE APPROPRIATE EROSION INSPECTIONS BY THE QUALIFIED PROFESSIONAL MAY BE REDUCED 1 AND SEDIMENT CONTROL STRUCTURES AS DEPICTED ON THE PLANS HAVE AT LEAST ONE INSPECTION EVERY 30 CALENDAR DAYS. BEEN ADEQUATELY INSTALLED AND IMPLEMENTED PRIOR COMMENCEMENT OF CONSTRUCTION. REFER TO SWPPP FOR THE INITIAL IF NYSDEC OR THE TOWN AUTHORIZES SOIL DISTURBANCES GREATER SITE ASSESSMENT GUIDELINES. THAN 5-ACRES, THE QUALIFIED PROFESSIONAL WILL CONDUCT . LEAST 2 SITE INSPECTIONS, SEPARATED BY AT LEAST 2 CALENDAR THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL EROSION AN DAYS, EVERY 7 CALENDAR DAYS TO ENSURE THE STABILITY AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A LOG BOOK. EFFECTIVENESS OF ALL PROTECTIVE MEASURES AND PRACTICES UNTIL THE SITE LOG BOOK SHALL BE MAINTAINED ON-SITE AND BE MADE SUCH TIME THAT LESS THAN 5-ACRES OF SOIL REMAIN DISTURBED. AVAILABLE TO THE PERMITTING AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING ONCE CONSTRUCTION ACTIVITIES ARE COMPLETE, THE OWNER/OPERATOR EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE SHALL HAVE A QUALIFIED PROFESSIONAL CONDUCT A FINAL SITE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER. ASSESSMENT TO DETERMINE IF THE SITE MEETS THE FINAL STABILIZATION CRITERIA AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT. IF THE EARTHWORK ACTIVITIES SHALL BE CONSISTENT WITH THE PLANS. THE SITE IS DETERMINED TO MEET THE FINAL STABILIZATION CRITERIA, A NOTICE EARTHWORK OPERATION AREAS SHALL BE STABILIZED ON AN ONGOING OF TERMINATION (NOT) SHALL BE COMPLETED AND SUBMITTED TO BASIS WITH NO AREAS. WHICH ARE NOT CURRENTLY UNDER NYSDEC TO TERMINATE COVERAGE UNDER THE SPDES GENERAL PERMIT. CONSTRUCTION, LEFT WITHOUT AT LEAST TEMPORARY COVER FOR MORE POLLUTION PREVENTION CONTROL NOTES EROSIVE MATERIAL TEMPORARILY STOCKPILED ON THE SITE DURING THE GOOD HOUSEKEEPING PRACTICES ARE DESIGNED TO MAINTAIN A CLEAN AN CONSTRUCTION PROCESS SHALL BE LOCATED IN AN AREA AWAY FROM ORDERLY WORK ENVIRONMENT. GOOD HOUSEKEEPING MEASURES SHALL BE STORM DRAINAGE AND SHALL BE PROPERLY PROTECTED BY A MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS BY THOSE PARTIES SURROUNDING SILT FENCE BARRIER. INVOLVED WITH THE DIRECT CARE AND DEVELOPMENT OF THE SITE. FOLLOWING MEASURES SHOULD BE IMPLEMENTED TO CONTROL THE POSSIBLE FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY | EXPOSURE OF HARMFUL SUBSTANCES AND MATERIALS TO STORMWATER | PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED | | RUNOFF: ON ALL EXPOSED LANDSCAPE SOILS. MATERIAL RESULTING FROM THE CLEARING AND GRUBBING OPERATION IF CONSTRUCTION TAKES PLACE IN "WET SOILS", CURTAIN DRAINS OR SUBSURFACE DRAINAGE SHALL BE INSTALLED TO DEWATER THE SOILS. DEWATERING DISCHARGES WILL NOT BE DIRECTED INTO WETLANDS, WATER EXPOSED NO LONGER THAN 14 DAYS BEFORE SEEDING. COURSES, WATER-BODIES, OR STORM SEWER SYSTEMS. TEMPORARY DRAINAGE SWALES WITH A MINIMUM GRADE OF ONE PERCENT SHALL BE INSTALLED TO DIRECT RUNOFF AWAY FROM EXCAVATED AREAS. SWALES SHALL BE INSTALLED WITH STAKED AND SECURED HAY BALE BERMS TO PREVENT DOWNSTREAM SILTATION. LOCATION OF THE DRAINAGE SWALES AND HAY BALES WILL BE AT THE DIRECTION OF THE DESIGN ENGINEER. SILT FENCE SHALL BE PROPERLY INSTALLED DOWN LOCATED WITHIN AREAS DRAINING TO SEDIMENT CONTROL DEVICES. GRADE OF ALL DISTURBED AREAS. SILT FENCE SHALL BE INSTALLED ALONG CONTOURS TO FILTER SEDIMENT FROM RUNOFF. INSPECTION BY CONTRACTOR SHOULD BE FREQUENT AND REPAIR OR REPLACEMENT PAVEMENT SURFACES, ETC.) WASHING IS PROHIBITED. SHOULD BE MADE PROMPTLY AS NEEDED. SILT FENCE SHOULD BE RFMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL REMOVED WHEN ALL DISTURBED AREAS HAVE UNDERGONE FINAL STABILIZATION, UPGRADIENT SURFACES HAVE BEEN PROPERLY STABILIZED. AND ALL STORMWATER MANAGEMENT SYSTEMS ARE IN PLACE AND OPERABLE. ALL AREAS DISTURBED BY THE REMOVAL OF THE TEMPORARY SOLID WASTE OR CHEMICAL DISPOSAL FACILITY. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FILLED IN TOPSOILED, SEEDED, AND MULCHED. FINAL STABILIZATION IS ACHIEVED WHEN ALL SOIL DISTURBING ACTIVITIES ARE COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80 PERCENT COVERAGE IS ESTABLISHED. OR EQUIVALENT STABILIZATION MEASURES. SUCH AS PLACEMENT OF MULCH OR GEOTEXTILE IS COMPLETED ON ALL AREAS NOT PAVED OR COVERED BY PERMANENT STRUCTURES. ENSURE THAT FINAL STABILIZATION OF ALL TRIBUTARY AREAS IS ACHIEVED PRIOR TO THE CONSTRUCTION OF THE BIORETENTION BASINS. ATTACHED TO THE SWPPP. TELEPHONE NOTES PORTABLE SANITARY WASTE FACILITIES SHALL BE PROVIDED ON-SITE FOR WORKERS AND SHALL BE PROPERLY MAINTAINED. ALL UNDERGROUND TELEPHONE RELATED INSTALLATIONS SHALL E COORDINATED BY THE CONTRACTOR WITH THE TELEPHONE COMPANY. DUMPSTERS AND OR DEBRIS CONTAINERS SHALL BE LOCATED ON-SITE | AREAS ARE COMPLETE. AND SHALL BE OF ADEQUATE SIZE TO MANAGE RESPECTIVE MATERIALS. TELEPHONE CONDUIT SHALL BE SCH. 40 PVC OR AS REQUIRED BY THE REGULAR COLLECTION AND DISPOSAL OF WASTES SHALL OCCUR AS TELEPHONE COMPANY. MINIMUM TELEPHONE CONDUIT BURIAL DEPTH SHALL BE TWO FEET, O TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A CONSTRUCTION FOR AS LONG AS MORE THAN 5-ACRES OF LAND REMAINS GREATER IF REQUIRED BY THE TELEPHONE COMPANY. BUILDING CONTRACTOR SHALL ROUTE TELEPHONE SERVICE INSIDE OF THE BUILDING TO ONE COMMON POINT FOR CONNECTION TO THE SITE TELEPHONE CONDUIT. **ELECTRICAL SERVICE NOTES** ALL ABOVEGROUND AND UNDERGROUND ELECTRICAL SERVICE RELATED INSTALLATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ELECTRIC COMPANY, CENTRAL HUDSON. ELECTRICAL CONDUIT SHALL BE SCH. 80 PVC OR AS REQUIRED BY THE AND MULCHED FOR FINAL STABILIZATION. ELECTRIC COMPANY. MINIMUM ELECTRICAL CONDUIT BURIAL DEPTH SHALL BE THREE FEET, OR GREATER IF REQUIRED BY THE ELECTRIC COMPANY. GAS NOTES ALL UNDERGROUND GAS SERVICE RELATED INSTALLATIONS SHALL BE THE TEMPORARY SEDIMENT BASINS UNTIL IT EVAPORATES. COORDINATED BY THE CONTRACTOR WITH THE GAS COMPANY, CENTRAL GAS PIPING (SIZE AND MATERIAL) SHALL BE AS REQUIRED BY THE GAS APPROPRIATE CONTROL MEASURES. MINIMUM GAS PIPING BURIAL DEPTH SHALL BE THREE FEET, OR GREATER WASTEWATER DISCHARGES FROM WASHOUT AND CLEANOUT OF STUCCO, | | REDEVELOPMENT PROJECTS IF REQUIRED BY THE GAS COMPANY PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS IS PROHIBITED.

SPDES GENERAL PERMIT COMPLIANCE NOTES CLEARING AND GRUBBING ACTIVITIES . THE NOTICE OF INTENT (NOI) AND SIGNED MS4 SWPPP ACCEPTANCE FORM | (IF APPLICABLE) SHALL BE FILED WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC). A COPY OF THE NOI, SIGNED MS4 SWPPP ACCEPTANCE FORM (IF APPLICABLE), AND THE NOI ACKNOWLEDGEMENT SHALL BE MAINTAINED AT THE SITE IN THE LOG BOOK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH TH A. THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL READ AND

(NYSDEC SPDES GENERAL PERMIT) IN EFFECT.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

.THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL READ AND SIG

. THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL IDENTIFY TH

THE CERTIFICATION STATEMENT PROVIDED IN THE APPENDICES OF THE

FLAG THE DISTURBANCE LIMITS PRIOR TO THE COMMENCEMENT CLEARING AND GRUBBING ACTIVITIES. INSTALL PERIMETER SILT FENCE AND TREE PROTECTION MEASURES AS SHOWN ON THE PROJECT PLANS. CLEARING AND GRUBBING ACTIVITIES SHALL BE LIMITED TO A MAXIMUM

**CONSTRUCTION SEQUENCING NOTES** 

OF 5-ACRES, UNLESS REQUIRED APPROVALS ARE RECEIVED TO DISTURB A GREATER AMOUNT FROM THE TOWN OF NEWBURGH. STABILIZE CONCURRENTLY WITH THE CLEARING ACTIVITIES SUCH THAT NO MORE UNDERSTAND THE CONDITIONS OF THE "NYSDEC SPDES GENERAL PERMIT THAN 5-ACRES ARE CLEARED AND GRUBBED AT ANY ONE TIME. WOODS FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES" CHIPS AND/OR SPRAY MULCH SHALL BE USED TO TEMPORARILY

TO PRODUCE WOOD CHIPS.

INSPECT ALL EROSION CONTROL MEASURES DURING CLEARING AND GRUBBING ACTIVITIES. REPAIR ANY DAMAGED EROSION CONTROL MEASURES UPON DISCOVERY

STABILIZE THE CLEARED AREA. CHIPPING TREES AND STUMP GRINDINGS

GENERATED AS PART OF THE CLEARING OPERATIONS WILL ALSO BE USED

THE CONTRACTOR SHALL DEMARCATE THE DISTURBANCE LIMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF EACH PHASE. INSTALL TEMPORARY DIVERSION MEASURES TO ENSURE TH STORMWATER RUNOFF IS CONVEYED TO THE TEMPORARY SEDIMENT BASINS. TEMPORARY DIVERSION MEASURES SHALL BE LOCATED IN A MANNER THAT WILL ENSURE THAT THE TRIBUTARY AREA TO EACH DIVERSION MEASURE SHALL NOT EXCEED 5-ACRES.

THE TEMPORARY SEDIMENT BASINS SHALL BE GRADED TO THE TOP THE GRAVEL LAYER IN THE BIORETENTION PRACTICES AND GRADED THE TOP OF THE AQUATIC BENCH IN THE STORMWATER PONDS. INSTALL DEWATERING DEVICES AND OUTLET CONTROL STRUCTURES WITH DEWATERING RISER IN ACCORDANCE WITH THE PROJECT PLANS. COVER HE PRIMARY INLET OF THE OUTLET CONTROL STRUCTURE WITH AMOCO TYPE 4545 OR APPROVED EQUAL CONSTRUCTION FABRIC TO PREVENT FINES FROM ENTERING THE STORMWATER DISCHARGES. THE EARTHWORK OPERATIONS WILL GENERALLY PROCEED AS SHOWN ON THE PHASING PLANS. TO MINIMIZE THE NEED TO IMPORT OR EXPORT

MATERIAL. THE EXCESS CUT MATERIAL CAN BE PLACED IN A PHASE REQUIRING FILL AS LONG AS THE OVERALL TOTAL DISTURBANCE BETWEEN THE PHASES DOES NOT EXCEED 20 ACRES. ANY TEMPORARY OR TOPSOIL STOCKPILES SHALL BE PROTECTED FROM EROSION WITH SEED/MULCH AND SHALL BE COVERED IN RAIN EVENTS AS CONDITIONS WARRANT. (REFER TO PROJECT DETAILS FOR ADDITIONAL INFORMATION.)

OPERATION, BUT NO MORE THAN 24-HOURS PRIOR TO PLACEMENT OF

REPLACED ONCE THE SUBBASE MATERIAL HAS BEEN INSTALLED.

CONSTRUCTION FABRIC FROM OUTLET CONTROL STRUCTURES.

PONDS UPON COMPLETION OF CONSTRUCTION ACTIVITIES.

THE SUBBASE MATERIAL. INLET PROTECTION MEASURES SHALL BE

INSTALL PROPOSED CURBING AND BINDER COURSE. INLET PROTECTION

NO MORE THAN 24-HOURS PRIOR TO PLACEMENT OF THE SUBBASE

MATERIAL. INLET PROTECTION MEASURES SHALL BE REPLACED ONCE THE

FINISH GRADING AND STABILIZE ALL DISTURBED AREAS. ALL CATCH

BASINS, DRAINAGE MANHOLES, AND DRAINAGE LINES SHALL BE CLEANED

REMOVE ALL ACCUMULATED SEDIMENT WITHIN THE TEMPORARY SEDIMENT

BASINS. REMOVE THE TEMPORARY PERFORATED RISERS AND

FINALIZE CONSTRUCTION OF THE BIORETENTION AREAS AND STORMWATER

PLACE PAVEMENT TOP COURSE AND PAVEMENT MARKINGS, AS

REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

ESTABLISH PERMANENT VEGETATIVE COVER AND INSTALL ALL

OCCUR. THE ENTIRE DISTURBANCE AREA WILL BE CLEARED INITIALLY FOR

LIBULK GRADING ACTIVITIES. PORTIONS OF THE PHASE WILL BE STABILIZED WITH

APPROPRIATE STABILIZATION MEASURES WHILE CONSTRUCTION IS OCCURRING IN

OTHER PORTIONS OF THE SITE. STABILIZATION METHODS WILL INCLUDE, BUT

CHIPS OVER THE DISTURBED AREAS ONCE CONSTRUCTION WITHIN THOSE

MINIMUM OF TWO SITE INSPECTIONS WILL BE CONDUCTED EVERY SEVEN

CALENDAR DAYS BY THE QUALIFIED INSPECTOR TO ENSURE THE STABILITY AND  $\mid$ 

FECTIVENESS OF ALL PROTECTIVE MEASURES AND PRACTICES DURING

NOT LIMITED TO, HYDRO-SEEDING, MULCHING, HAYING, AND SPREADING WOOD

IMMEDIATELY STABILIZE THE AREAS DISTURBED DURING THEIR REMOVAL.

INSTALL ALL PLANTINGS IN ACCORDANCE WITH THE PROJECT PLANS.

MEASURES MAY BE REMOVED TEMPORARILY DURING THIS OPERATION, BUT

HAVE BEEN CONSTRUCTED AND STABILIZED.

BINDER COURSE HAS BEEN INSTALLED.

LANDSCAPING.

OF ANY ACCUMULATED SILT AND SEDIMENT.

TO MINIMIZE UNNECESSARY DISTURBANCES, EXCAVATION AND FILL AREAS SHALL BE MANAGED TO ENABLE THE INSTALLATION OF UTILITIES AS THE FILL PROGRESSES, WHEREVER POSSIBLE. THE DISTURBED AREAS SHALL BE ACTIVELY STABILIZED AS WORK

REPEAT THE ABOVE PROCESS FOR EACH OF THE PHASES UNTIL THE NECESSARY FILL MATERIAL HAS BEEN OBTAINED. THE TEMPORARY SEDIMENT BASINS SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBANCE ACTIVITIES THAT CONTRIBUTE TO THE TEMPORARY SEDIMENT BASINS HAVE BEEN COMPLETED. THE PERMANENT STORMWATER MANAGEMENT PRACTICES SHALL NOT BE COMPLETED UNTIL ALL OF THE CONTRIBUTING AREAS TO THE PRACTICES

BULK GRADING OPERATIONS SHALL OCCUR FIRST. PREPARE PAVEMENT SUBGRADE AND INSTALL SUBBASE MATERIAL. INLET PROTECTION MEASURES MAY BE REMOVED TEMPORARILY DURING THIS

SHALL BE STOCKPILED AWAY FROM STORM DRAINAGE. WATER BODIES AND/OR WATERCOURSES AND SURROUNDED WITH ADEQUATE EROSION AND SEDÍMENT CONTROL MEASURES. SOIL STOCKPILE LOCATIONS SHALL BE EQUIPMENT MAINTENANCE AREAS SHALL BE PROTECTED FROM STORMWATER FLOWS AND SHALL BE SUPPLIED WITH APPROPRIATE WASTE RECEPTACLES FOR SPENT CHEMICALS, SOLVENTS, OILS, GREASES, GASOLINE, AND ANY POLLUTANTS THAT MIGHT CONTAMINATE THE SURROUNDING HABITAT AND OR WATER SUPPLY. EQUIPMENT WASH-DOWN ZONES SHALL BE

THE USE OF DETERGENTS FOR LARGE-SCALE (I.E., VEHICLES, BUILDINGS MATERIAL STORAGE LOCATIONS AND FACILITIES (I.E., COVERED STORAGE) AREAS, STORAGE SHEDS, ETC.) SHALL BE LOCATED ON-SITE AND SHALL BE STORED ACCORDING TO THE MANUFACTURER'S STANDARDS IN A DEDICATED STAGING AREA. CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIAL MUST BE STORED IN WATERPROOF CONTAINERS. RUNOFF CONTAINING SUCH MATERIALS MUST BE COLLECTED

REMOVED FROM THE SITE, TREATED AND DISPOSED AT AN APPROVED HAZARDOUS SPILLS SHALL BE IMMEDIATELY CONTAINED TO PREVENT SUCH POLLUTANTS FROM ENTERING THE SURROUNDING HABITAT AND/OR WATER SUPPLY. SPILL KITS SHALL BE PROVIDED ON-SITE AND SHALL BE DISPLAYED IN A PROMINENT LOCATION FOR EASE OF ACCESS AND USE. SPILLS GREATER THAN FIVE (5) GALLONS SHALL BE REPORTED TO THE NYSDEC RESPONSE UNIT AT 1-800-457-7362. IN ADDITION, A RECORD | THE LIMITS OF DISTURBANCE WILL BE FLAGGED BY THE CONTRACTOR PRIOR TO OF THE INCIDENT(S) AND/OR NOTIFICATIONS SHALL BE DOCUMENTED AND THE COMMENCEMENT OF CONSTRUCTION TO ENSURE OVER CLEARING DOES NOT

MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE | DISTURBED. FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING. A SIGN SHOULD BE INSTALLED ADJACENT TO  $| \ 
ight |$ EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO JILIZE THE PROPER FACILITIES. WHEN TEMPORARY CONCRETE WASHOUT lacksquareFACILITIES ARE NO LONGER REQUIRED FOR THE WORK. THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED ' CONSTRUCT THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE NO SOIL DISTURBANCE REMOVED AND DISPOSED OF. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE | MINIMAL SOIL DISTURBANCE (E.G., WASHOUT FACILITIES SHALL BE BACKFILLED AND/OR REPAIRED, SEEDED, | | CLEARING AND GRUBBING ACTIVITIES)

NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE | AREAS OF CUT OR FILL SITE, MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL | | APPROVED BY THE HEALTH DEPARTMENT. WATER USED FOR HEAVY TRAFFIC AREAS ON SITE CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC | | (ESPECIALLY IN 5' TO 25' AROUND SUPPLY MUST NOT DISCHARGE FROM THE SITE. IT CAN BE RETAINED IN | | BUILDINGS BUT NOT WITHIN 5'

SOIL RESTORATION NOTES SOIL RESTORATION SHALL BE PERFORMED IN THE DISTURBED AREAS. THE SOILS SHALL BE RESTORED AS FOLLOWS: TYPE OF SOIL DISTURBANCE SOIL RESTORATION REQUIREMENT RESTORATION NOT PERMITTED RESTORATION NOT REQUIRED AREAS WHERE TOPSOIL IS STRIPPED | AERATE AND APPLY 6" OF TOPSOIL ||ONLY (NO CHANGE IN GRADE) PPLY FULL SOIL RESTORATION APPLY FULL RESTORATION IPERIMETER AROUND FOUNDATION DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM | | AREAS WHERE RUNOFF REDUCTION | RESTORATION MY NOT BE REQUIRED, DEWATERING TRENCHES AND EXCAVATIONS, MUST BE MANAGED BY | | AND OR INFILTRATION PRACTICES ARE BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR THE APPROPRIATE PRACTICE OIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING IMPERVIOUS AREA WILL BE CONVERTED TO PERVIOUS

> INCLUDING CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE, SITE CLEANUP AND TRAFFICKING. SHOULD BE FINISHED AND THE SITE CLOSED OFF TO FURTHER DISTURBANCE. FULL SOIL RESTORATION IS IMPLEMENTED IN A TWO DEEP RIP THE AFFECTED THICKNESS OF EXPOSED SUBSOIL MATERIAL. AGGRESSIVELY FRACTURING IT BEFORE THE PROTECTED TOPSOIL IS REAPPLIED ON THE SITE.

PRIOR TO APPLYING FULL SOIL RESTORATION, ALL CONSTRUCTION ACTIVITY,

DECOMPACT, SIMULTANEOUSLY THROUGH THE RESTORED TOPSOIL LAYER AND UPPER HALF OF THE AFFECTED SUBSOIL.

190063302

**JULY 10, 2023** 

Checked By

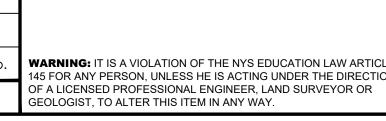
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TOWN OF NEWBURGH APPROVAL BOX **TOWN PROJECT # 2022-29** 

PLANNING BOARD CHAIRPERSON JOHN P. EWASUTYN

10/12/2023 PLANNING BOARD SUBMISSION 8/28/2023 PLANNING BOARD SUBMISSION Date Description

Revisions







White Plains, NY 10601

**MATRIX I-84 DISTRIBUTION CENTER** SECTION No. 86, BLOCK No. 1, LOT No. 97 SECTION No. 89, BLOCK No. 1, LOT No. 66 and 69.11 **TOWN OF NEWBURGH** 

**NEW YORK** 

ORANGE COUNTY

**LEGENDS** & NOTES

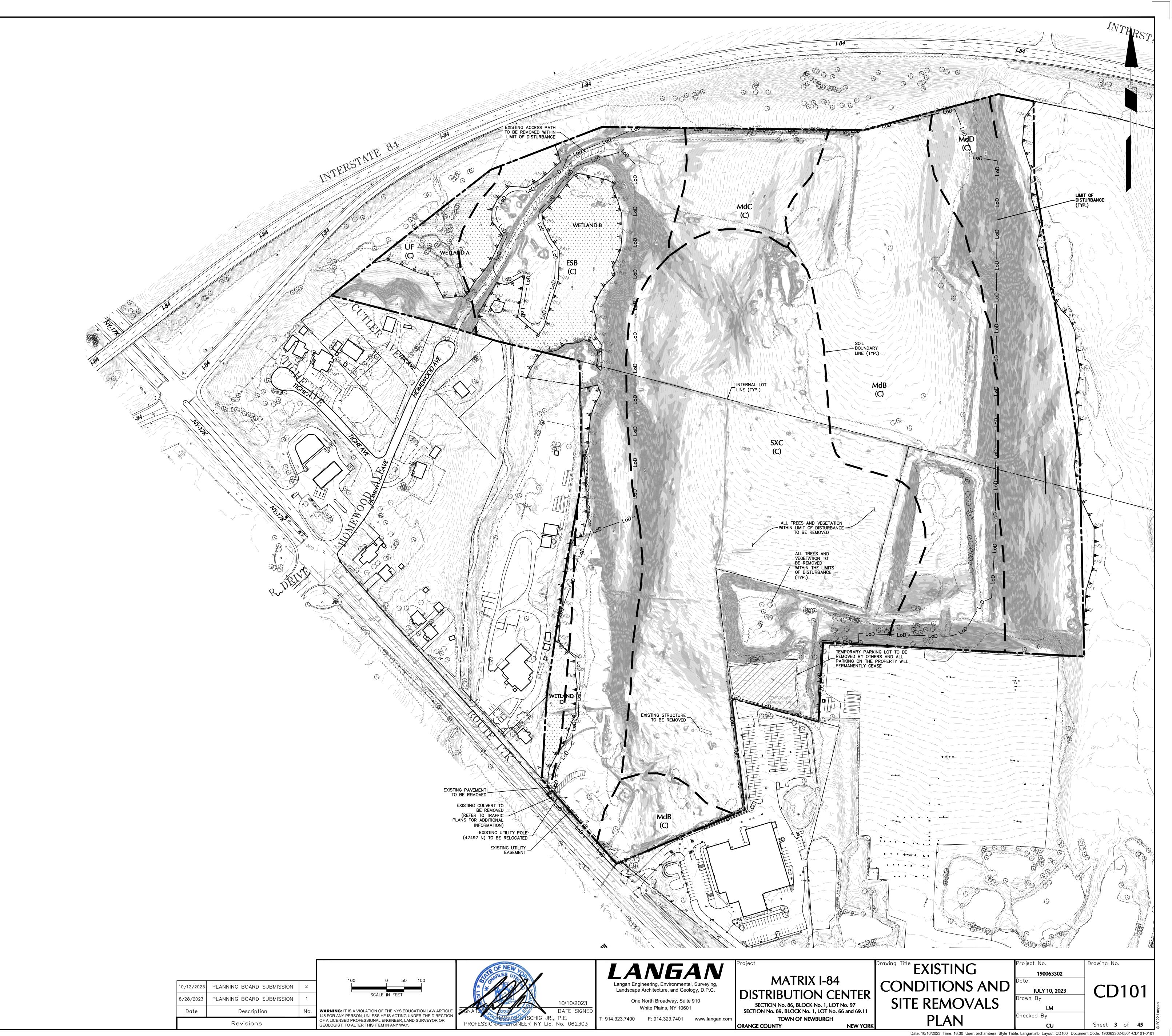
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Drawing No. **CS002** 

# **REFERENCE NOTES**

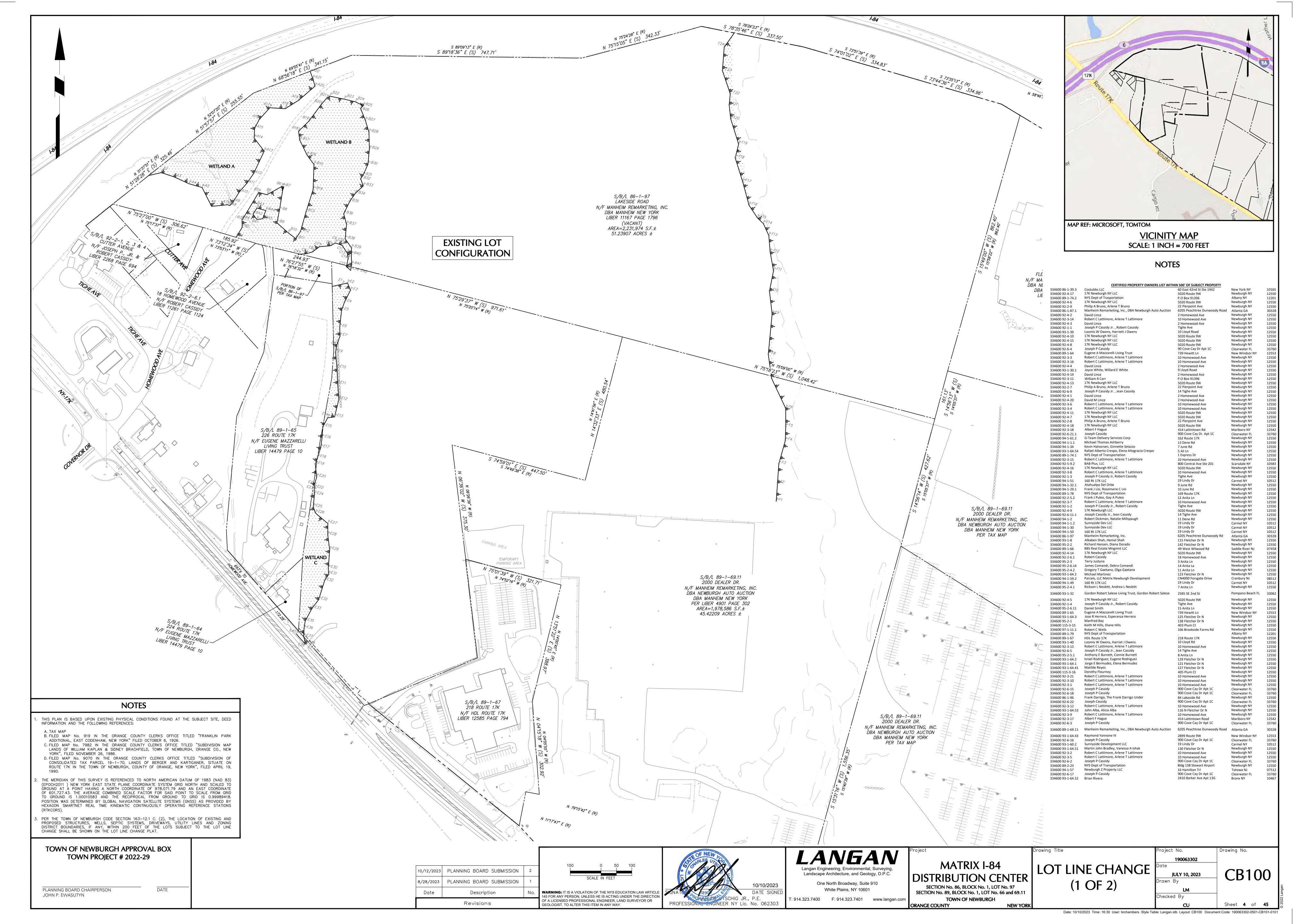
- EXISTING SITE FEATURES, TOPOGRAPHIC, AND UTILITY INFORMATION SHOWN HEREON ARE FROM AN ALTA/NSPS LAND TITLE SURVEY PREPARED BY LAGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE, AND GEOLOGY, D.P.C
- . THE HORIZONTAL DATUM REFERENCED IS THE NORTH AMERICAN DATUM OF 1983 (NAD83), NEW YORK STATE EAST STATE PLANE. THE VERTICAL DATUM REFERENCED IS THE NORTH AMERICAN VERTICAL DATUM OF 1988
- 4. ONSITE WETLANDS HAVE BEEN DELINEATED AND LOCATED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C. WETLAND SCIENTISTS ON 11/01/2022 AND 11/02/2022.
- . TREE REMOVAL SHALL OCCUR BETWEEN NOVEMBER 1 AND MARCH 31.

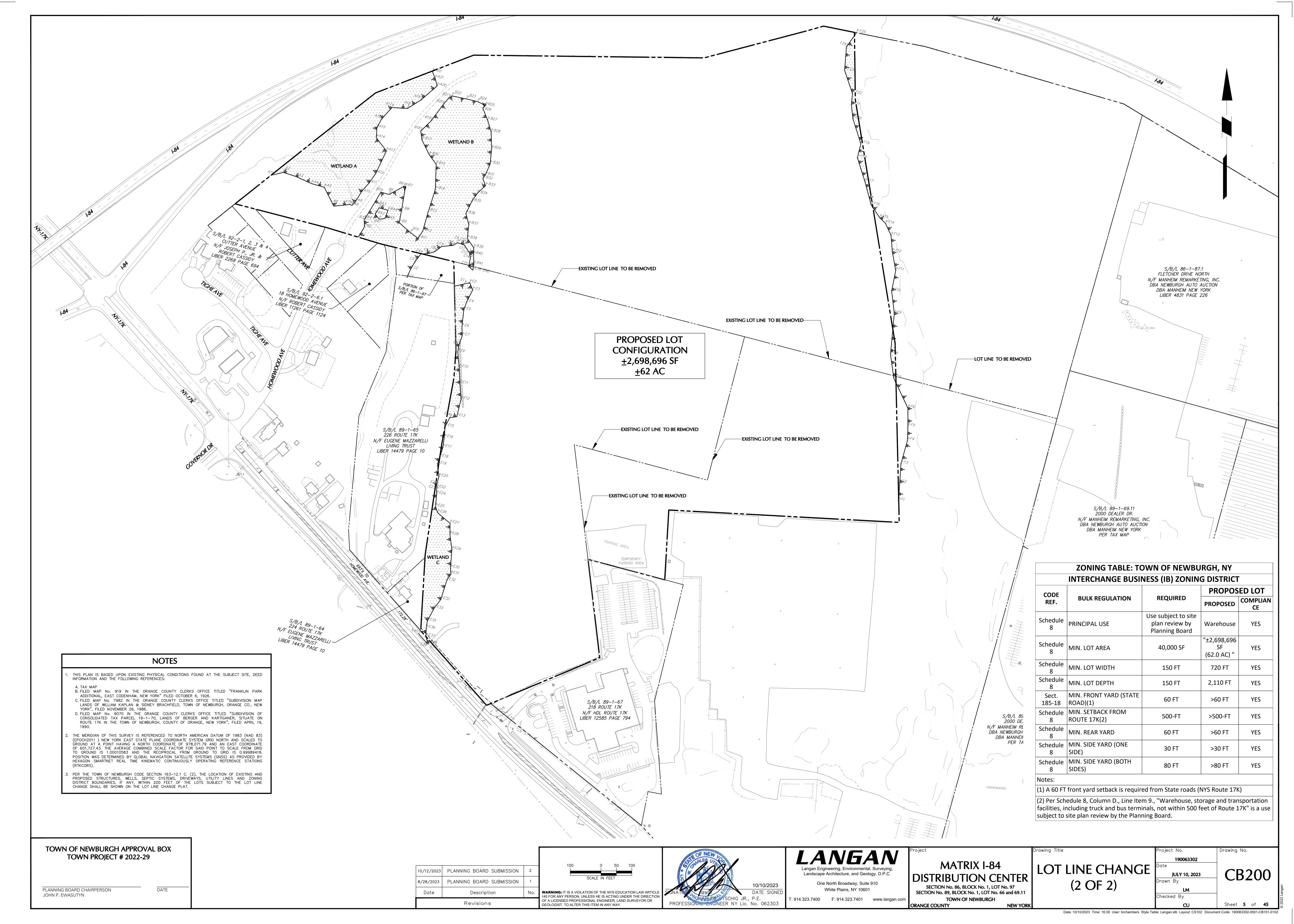
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NUMBER	MIN. SLOPE	MAX. SLOPE	AREA (SF)	AREA (AC)	COLOR	
1	15.0%	20.0%	319,807	7.34		
2	20.0%	25.0%	193,050	4.43		
3	25.0%	Vertical	537,263	12.33		

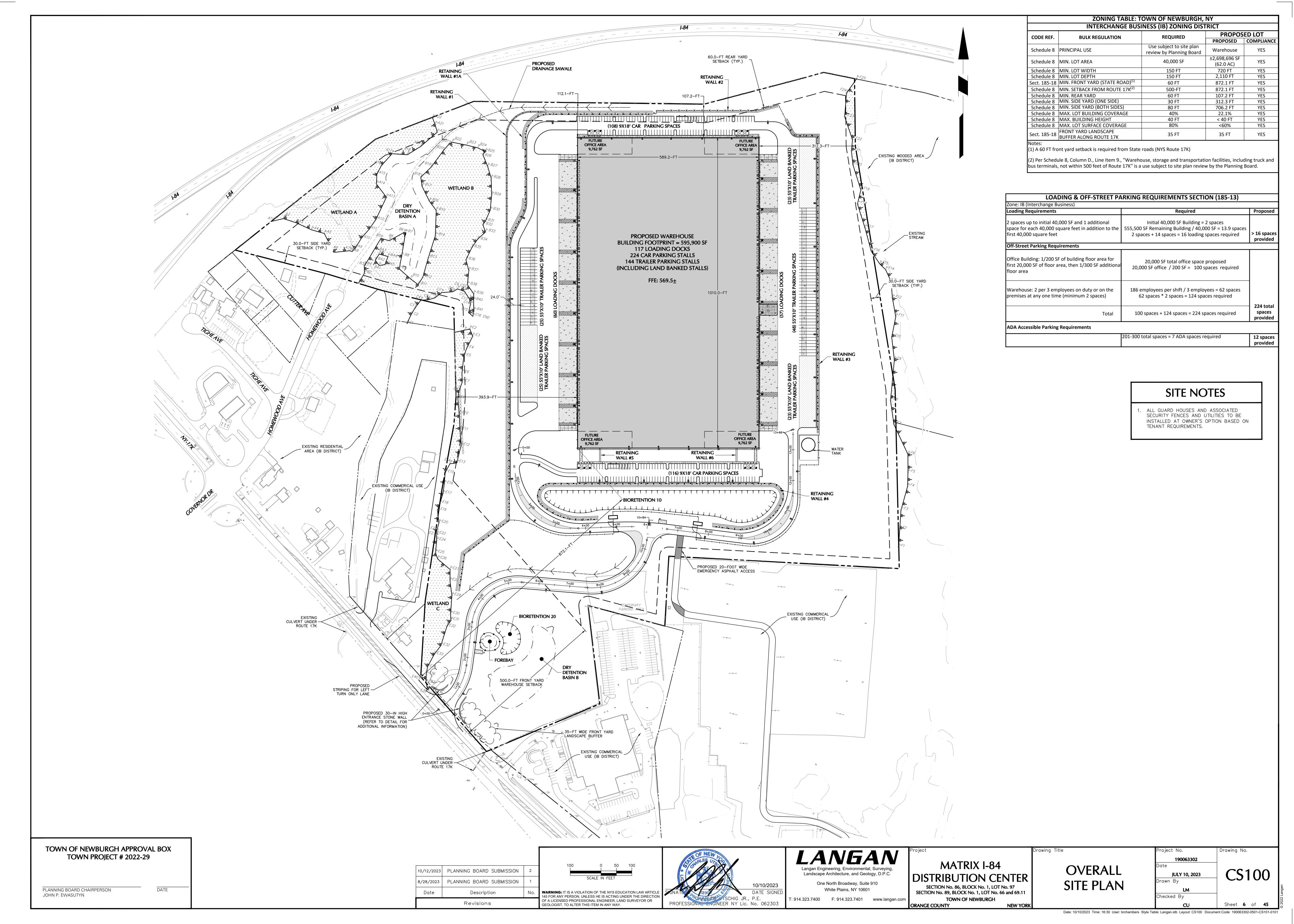


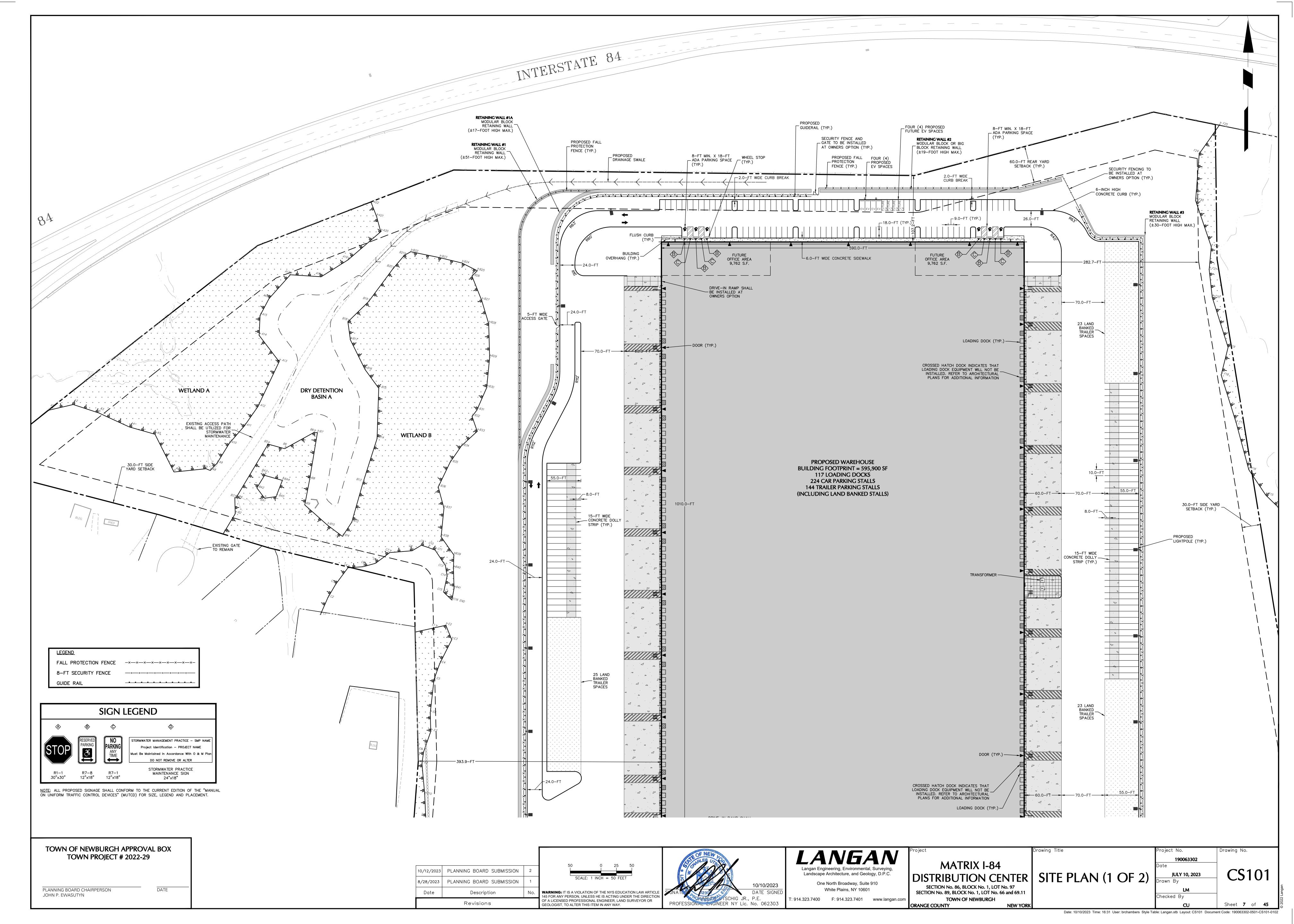
TOWN OF NEWBURGH APPROVAL BOX TOWN PROJECT # 2022-29

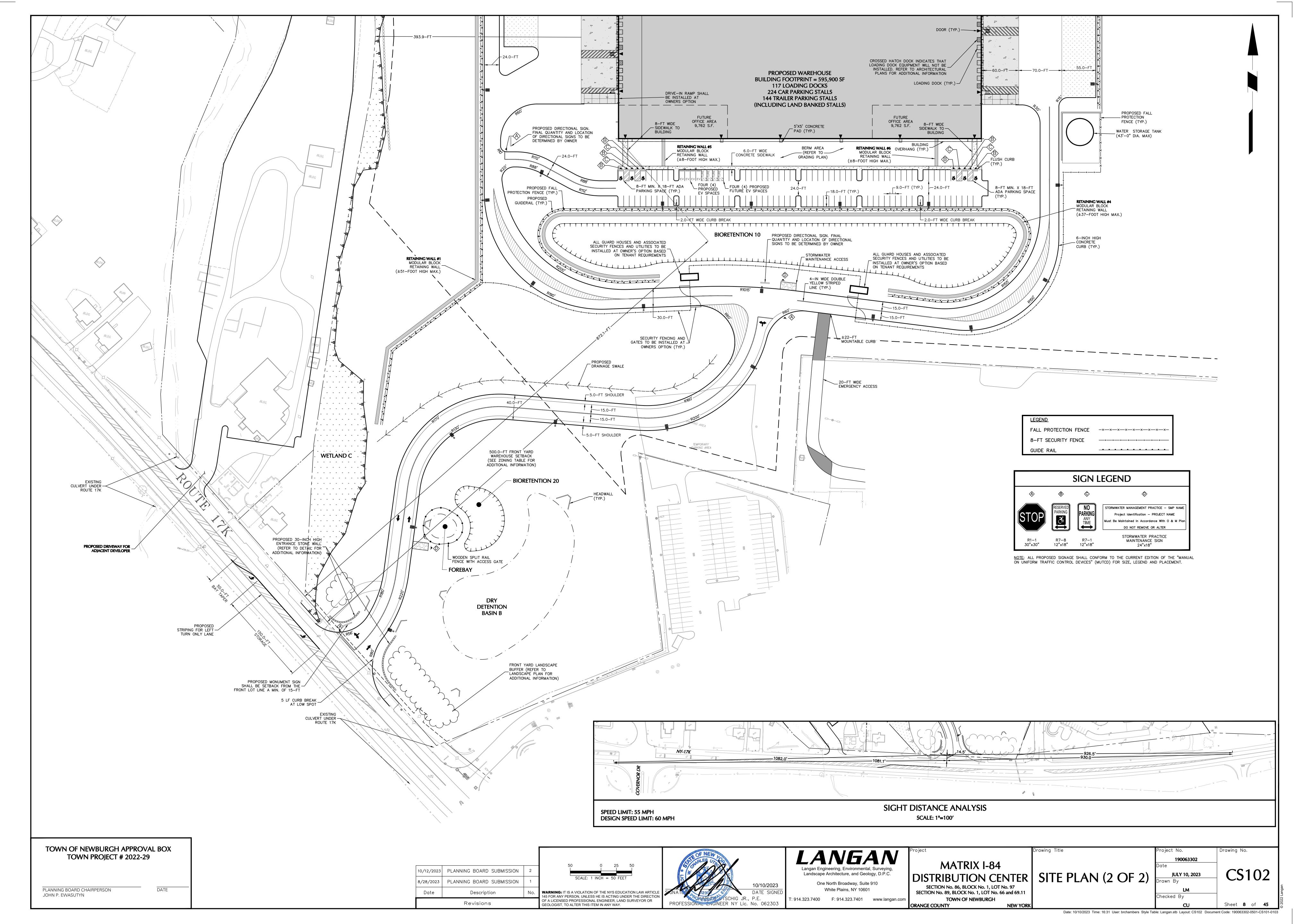
PLANNING BOARD CHAIRPERSON JOHN P. EWASUTYN

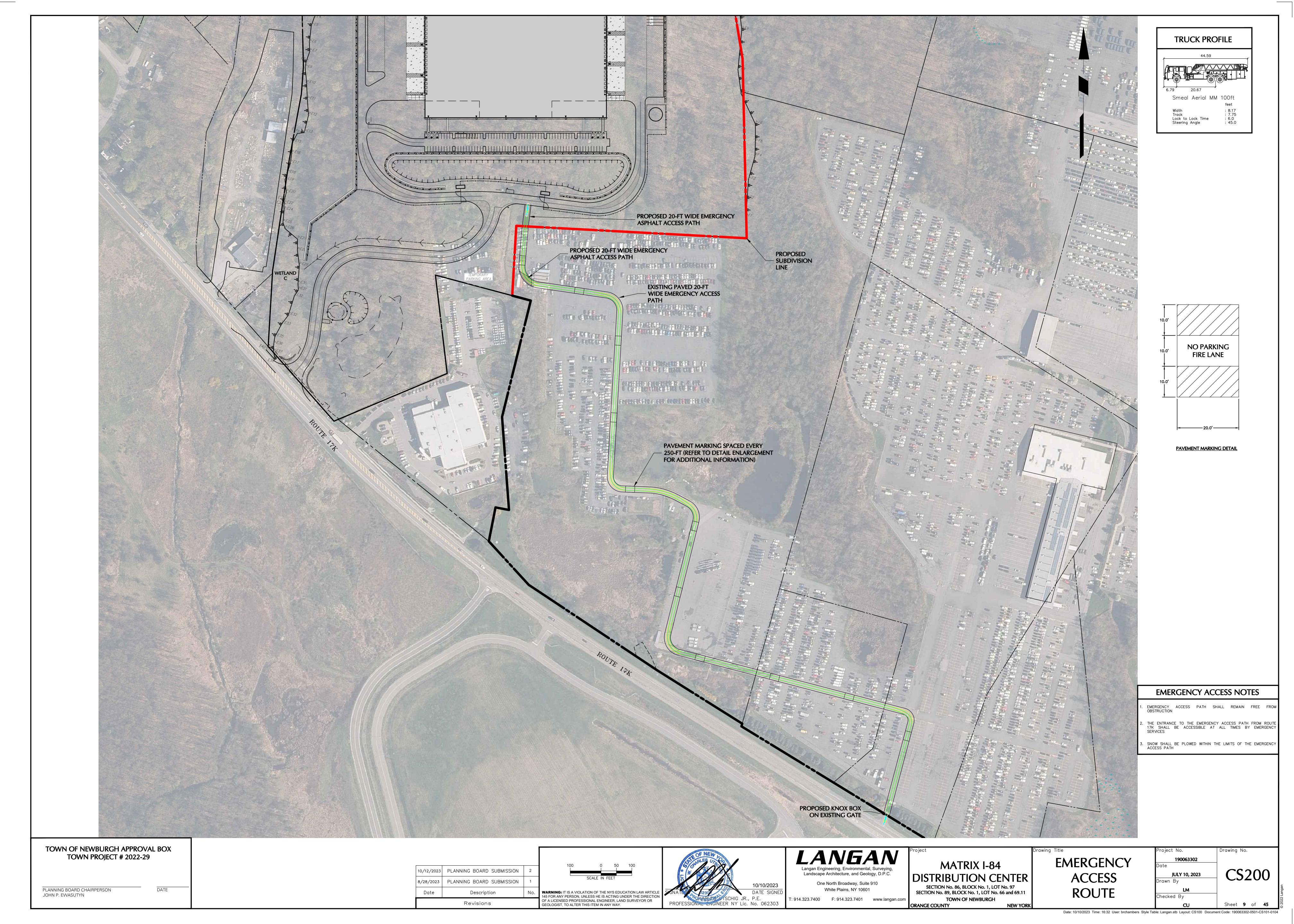


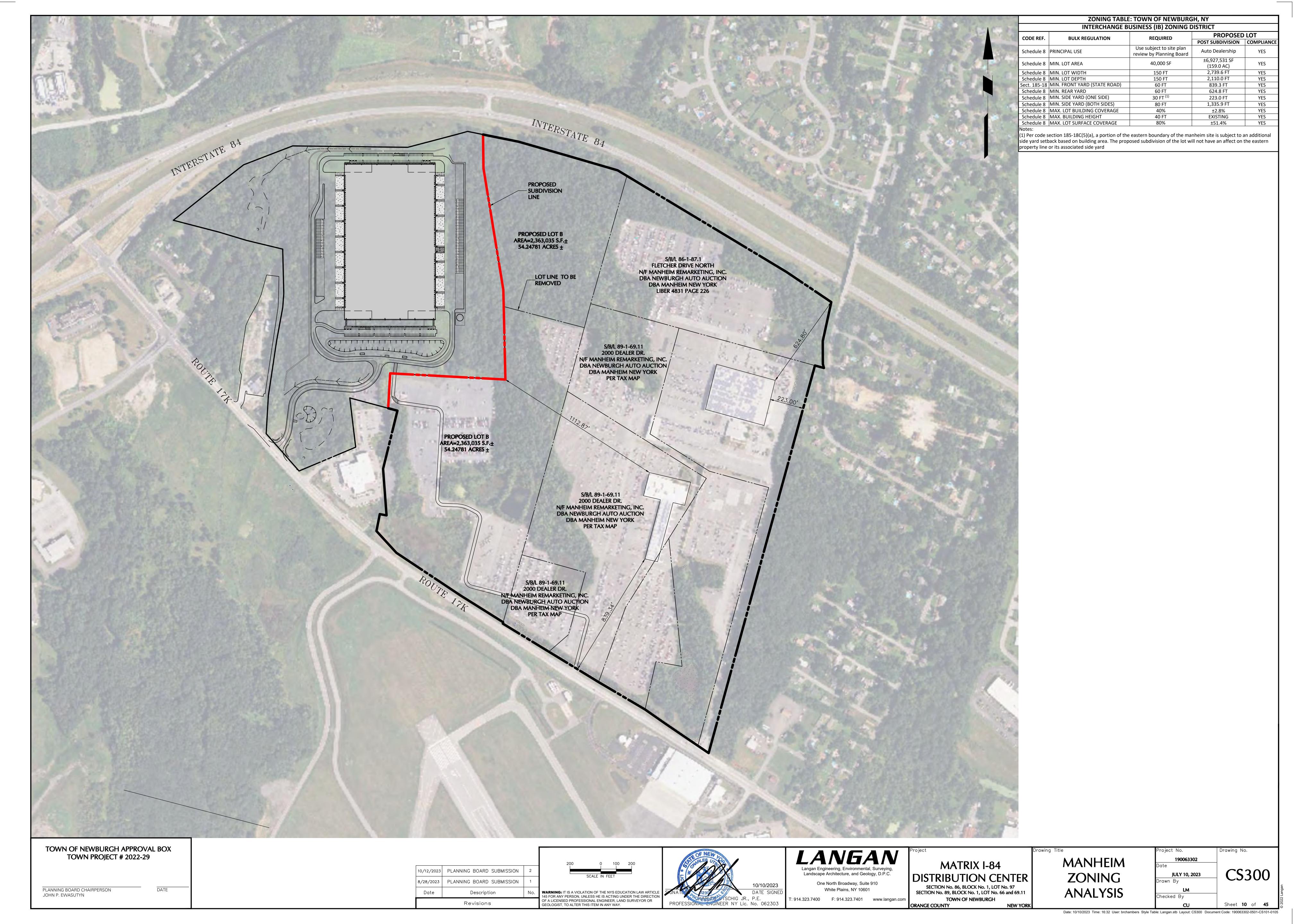


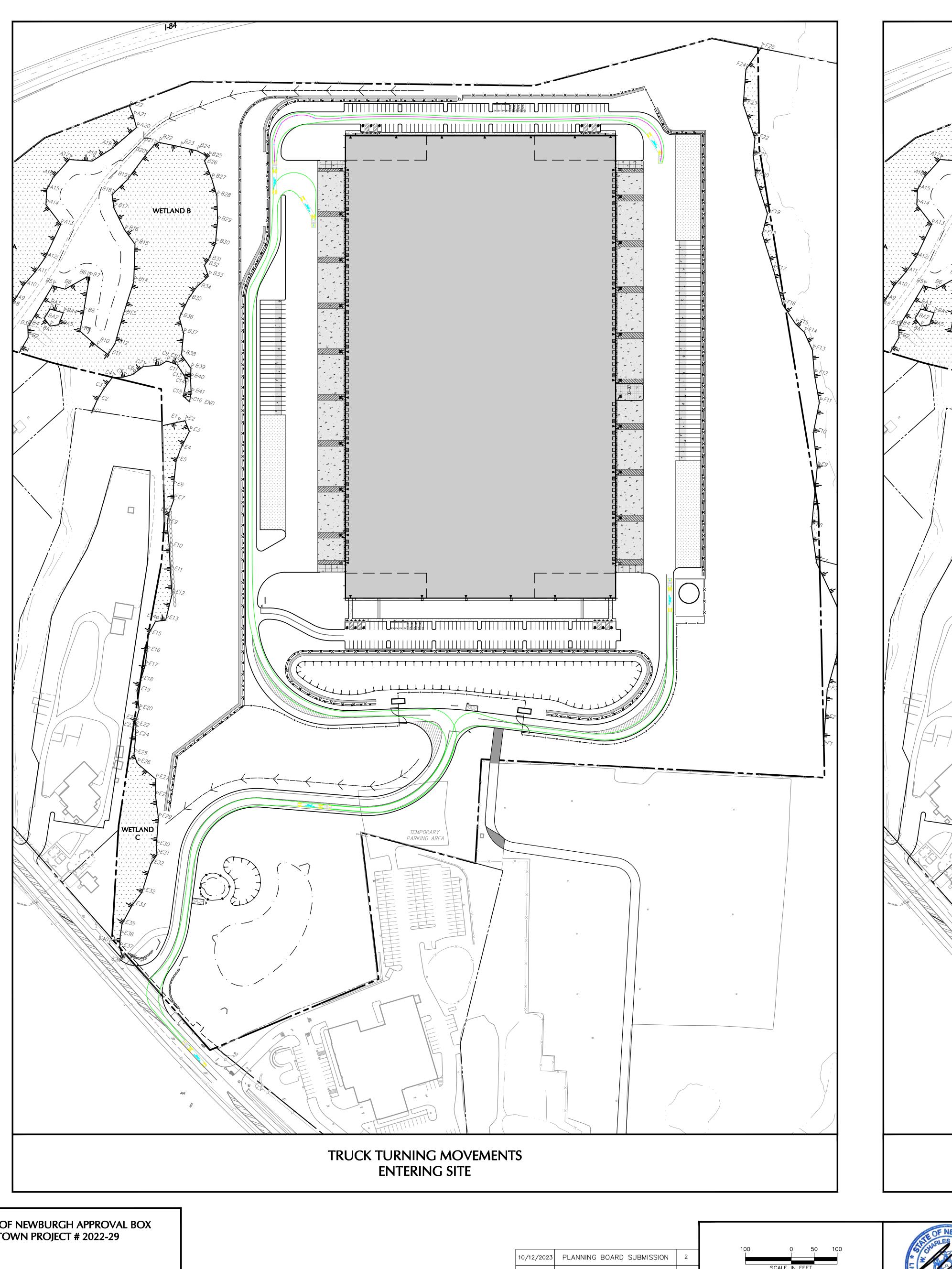


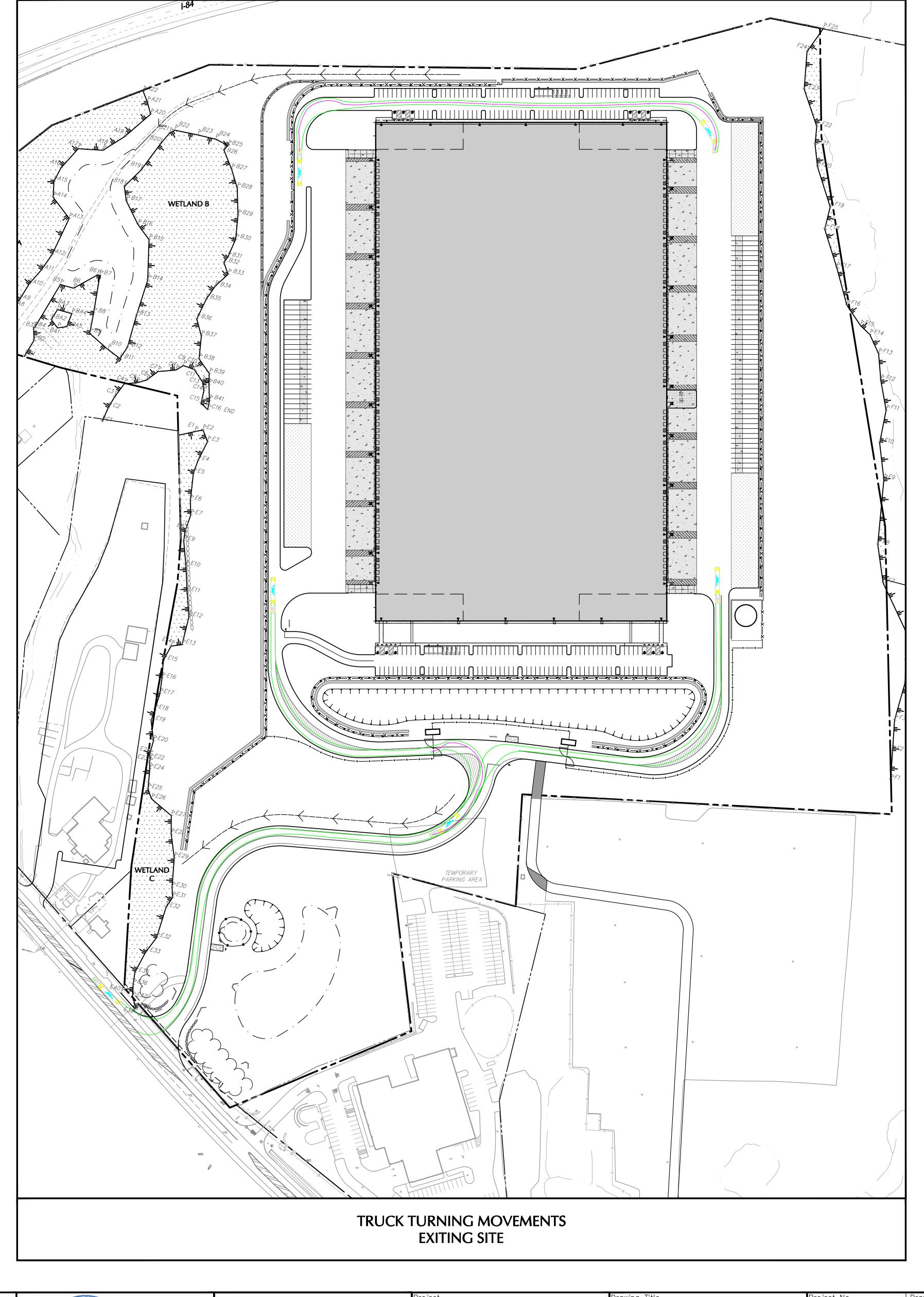












TOWN OF NEWBURGH APPROVAL BOX TOWN PROJECT # 2022-29

PLANNING BOARD CHAIRPERSON JOHN P. EWASUTYN

8/28/2023 PLANNING BOARD SUBMISSION Description Revisions

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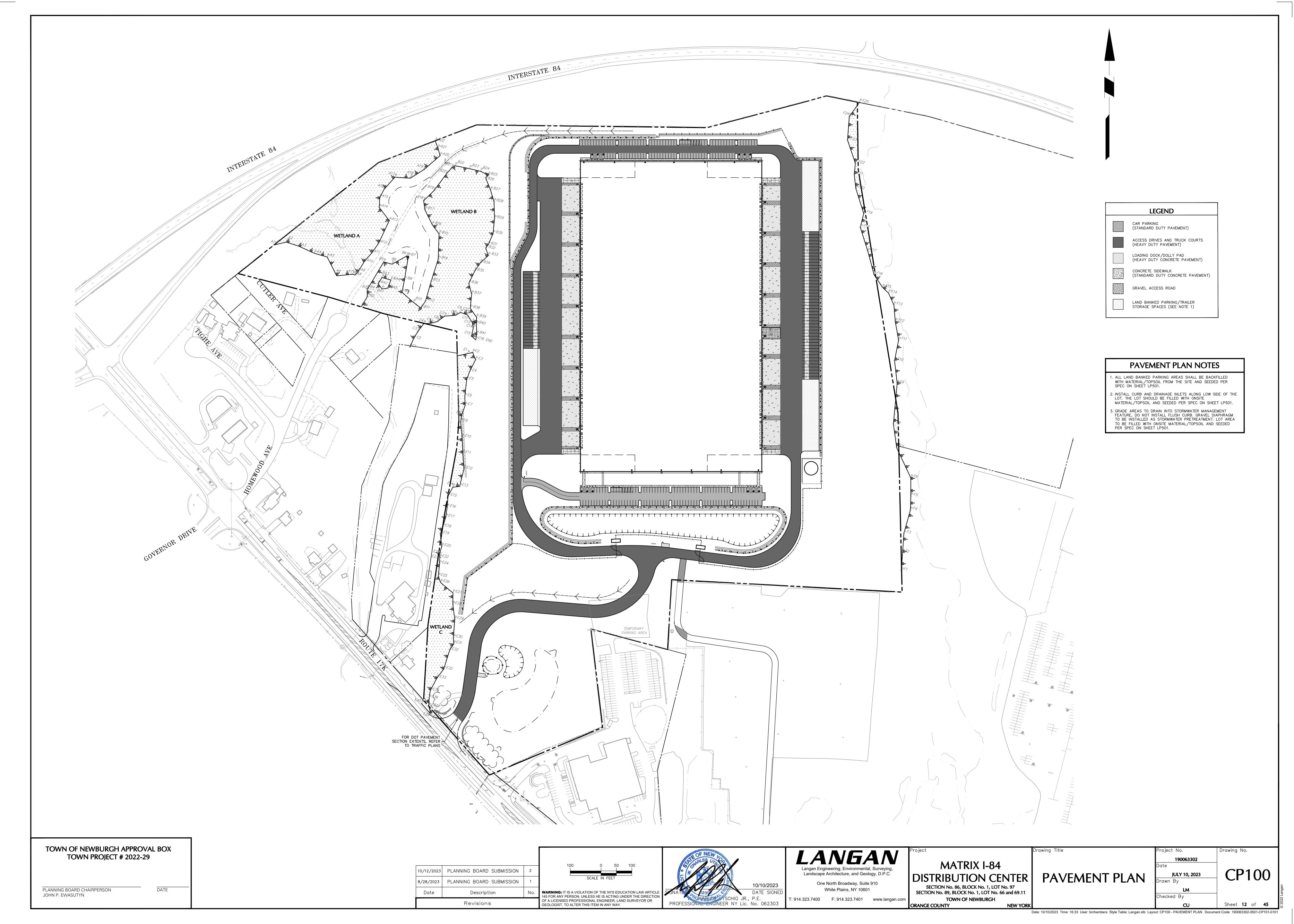
LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C. One North Broadway, Suite 910 White Plains, NY 10601 7: 914.323.7400 F: 914.323.7401 www.langan.com

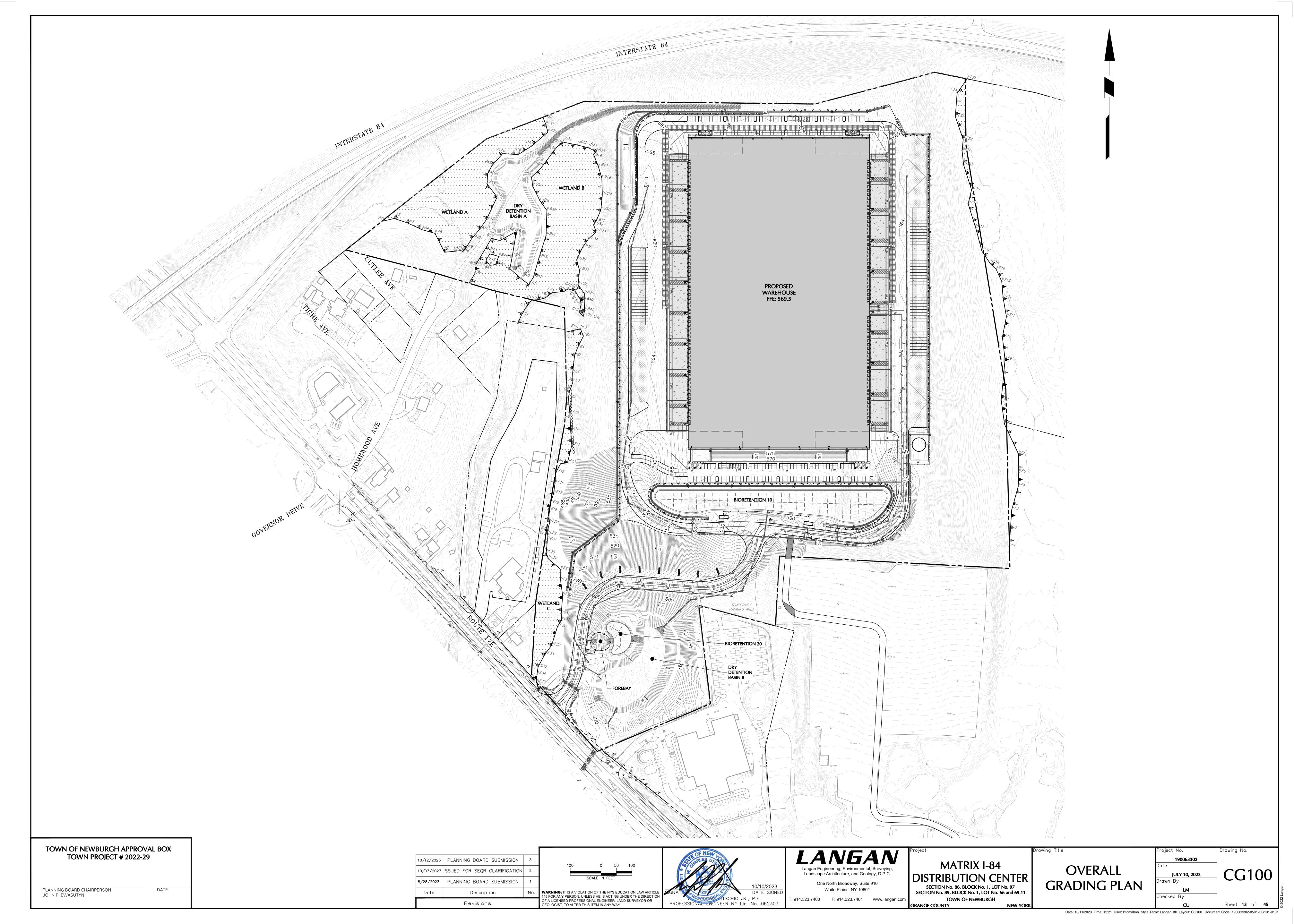
MATRIX I-84 DISTRIBUTION CENTER SECTION No. 86, BLOCK No. 1, LOT No. 97 SECTION No. 89, BLOCK No. 1, LOT No. 66 and 69.11 **TOWN OF NEWBURGH** ORANGE COUNTY **NEW YORK** 

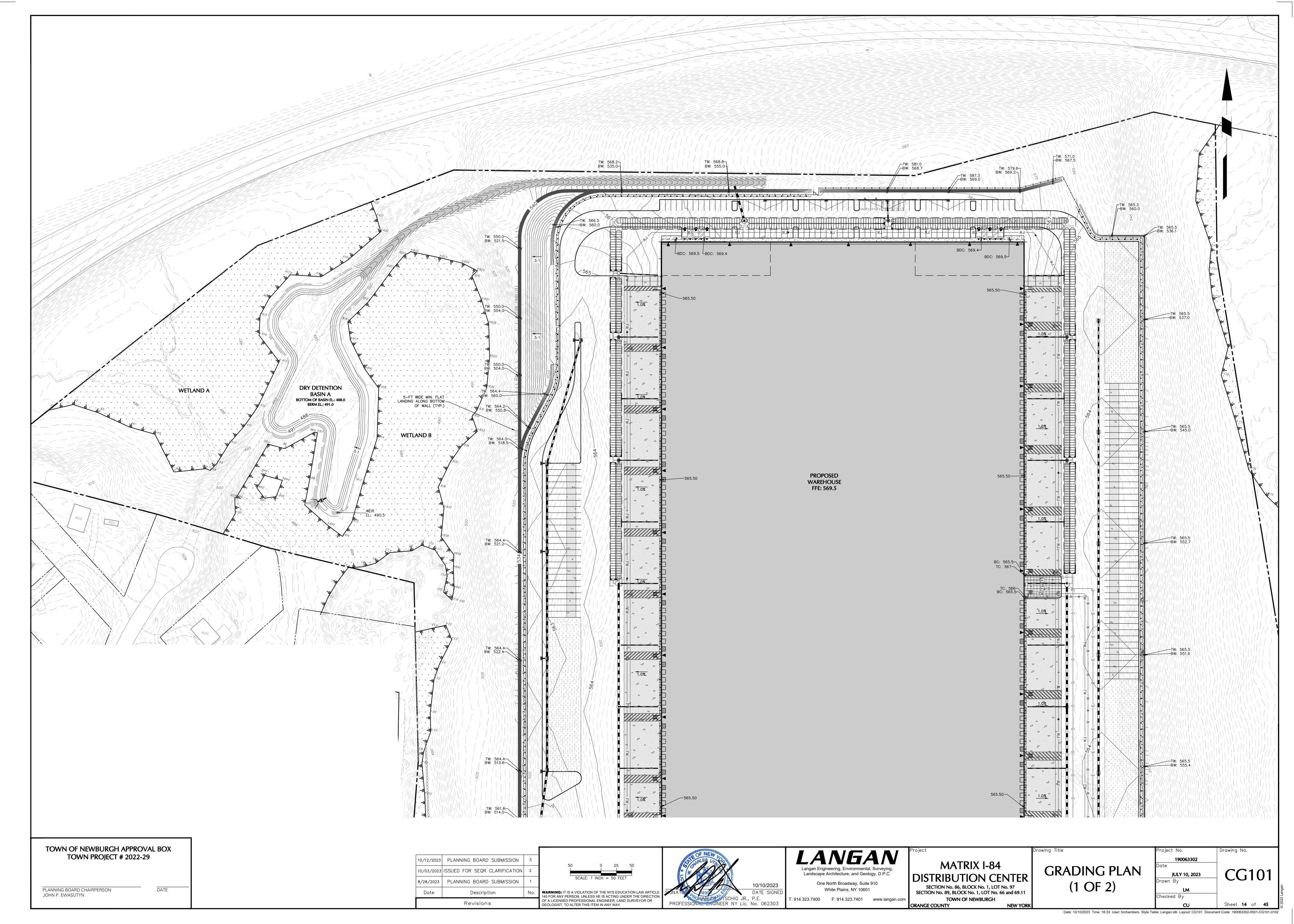
TRUCK TURNING MOVEMENT PLAN

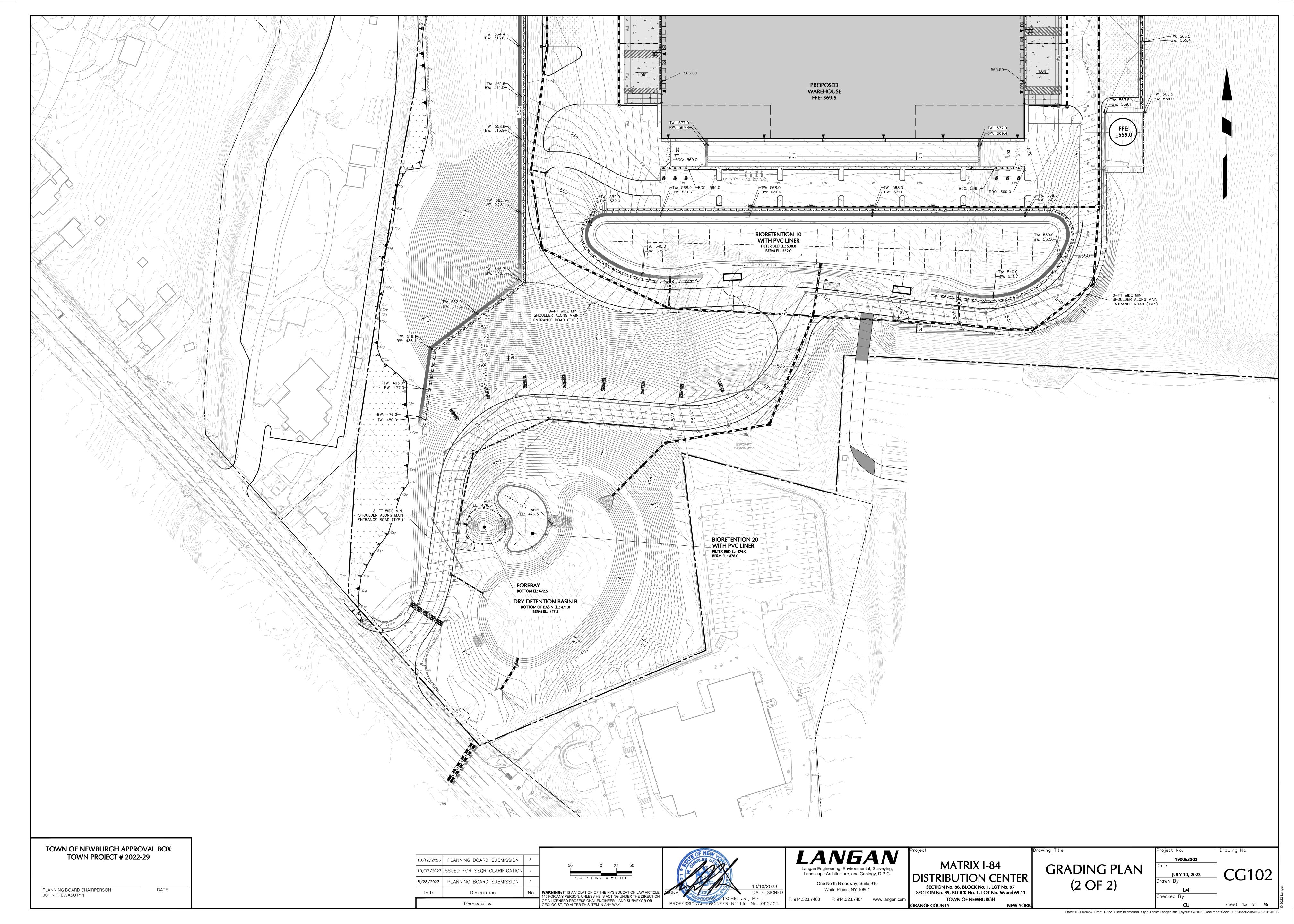
Drawing No. 190063302 TM100 JULY 10, 2023 Checked By

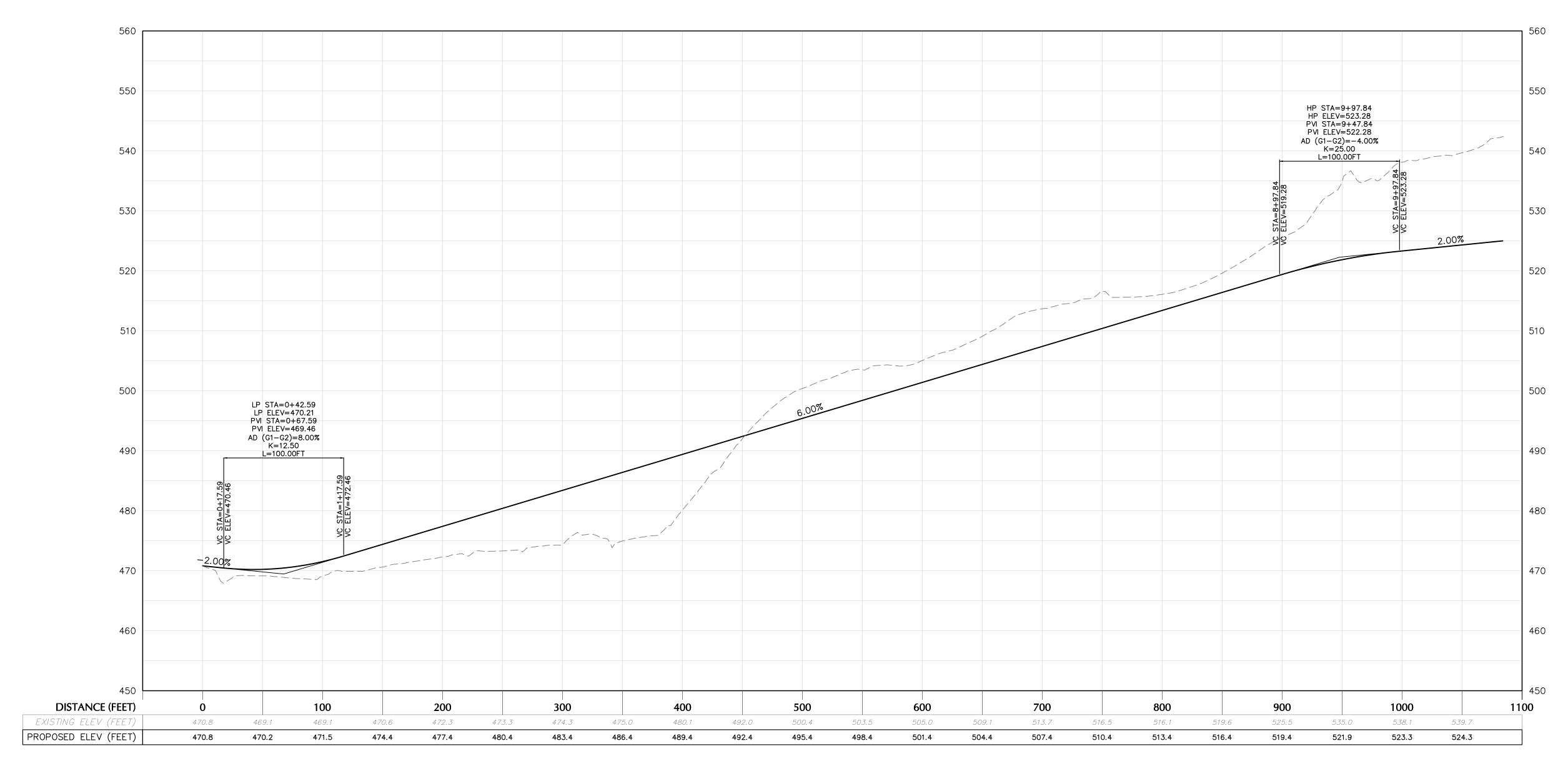
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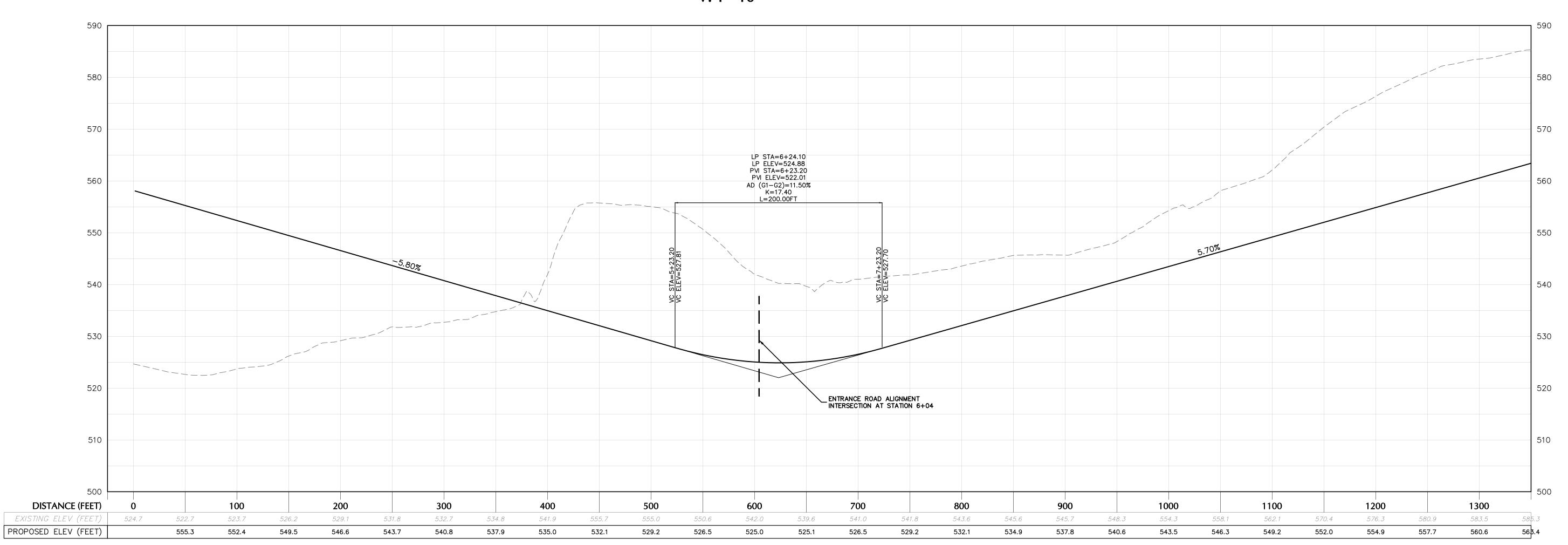








### ENTRANCE ROAD PROFILE SCALE: H: 1"=50' V: 1'=10'



MAIN ENTRANCE LOOP ROAD SCALE: H: 1"=50' V: 1'=10'

TOWN OF NEWBURGH APPROVAL BOX
TOWN PROJECT # 2022-29

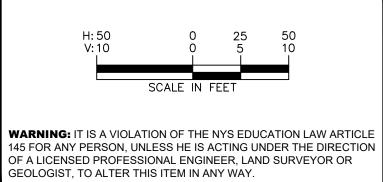
PLANNING BOARD CHAIRPERSON
JOHN P. EWASUTYN

DATE

10/12/2023 PLANNING BOARD SUBMISSION 2

8/28/2023 PLANNING BOARD SUBMISSION 1

Date Description No.





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TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK

ROADWAY PROFILE Project No.

190063302

Date

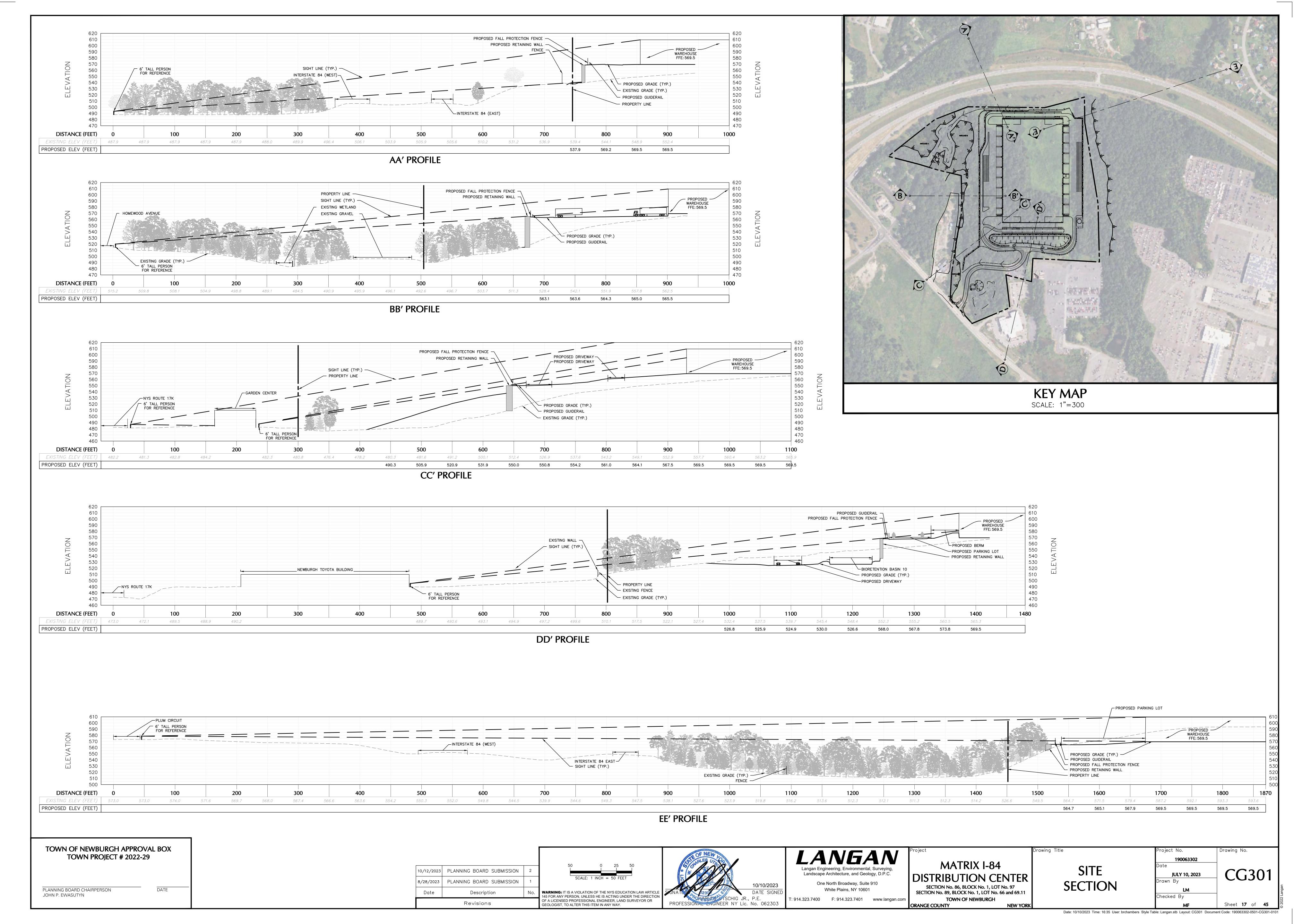
JULY 10, 2023

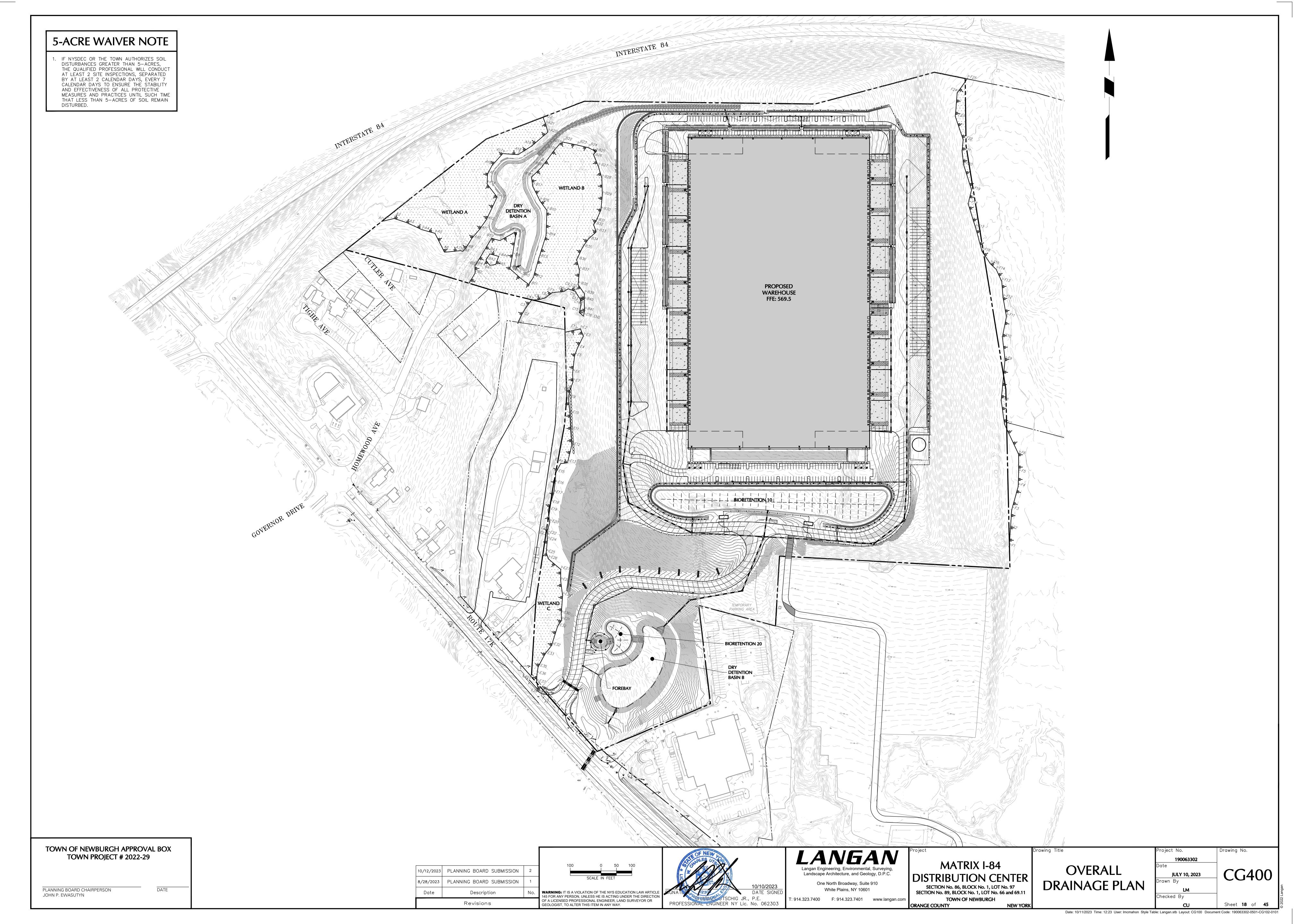
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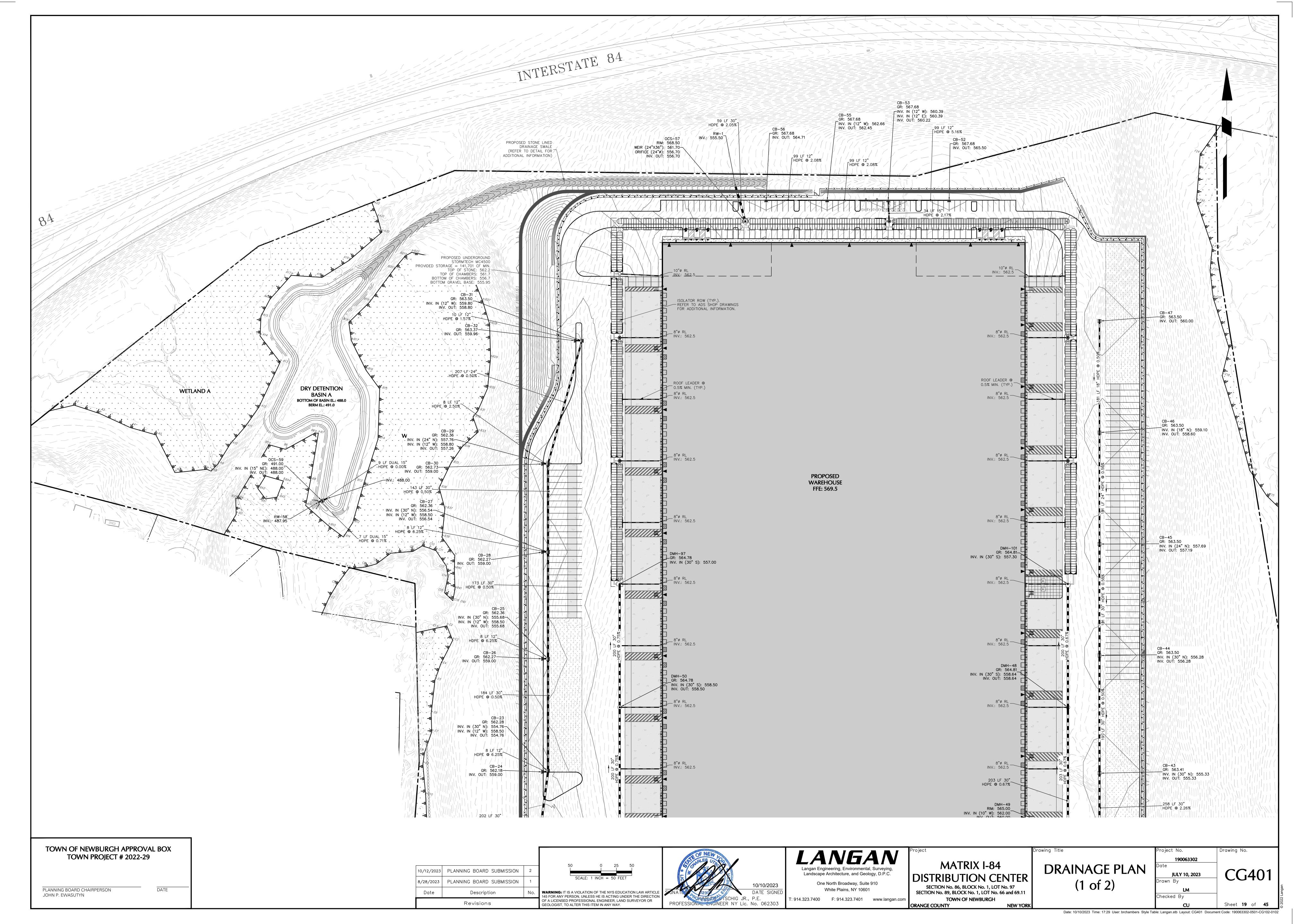
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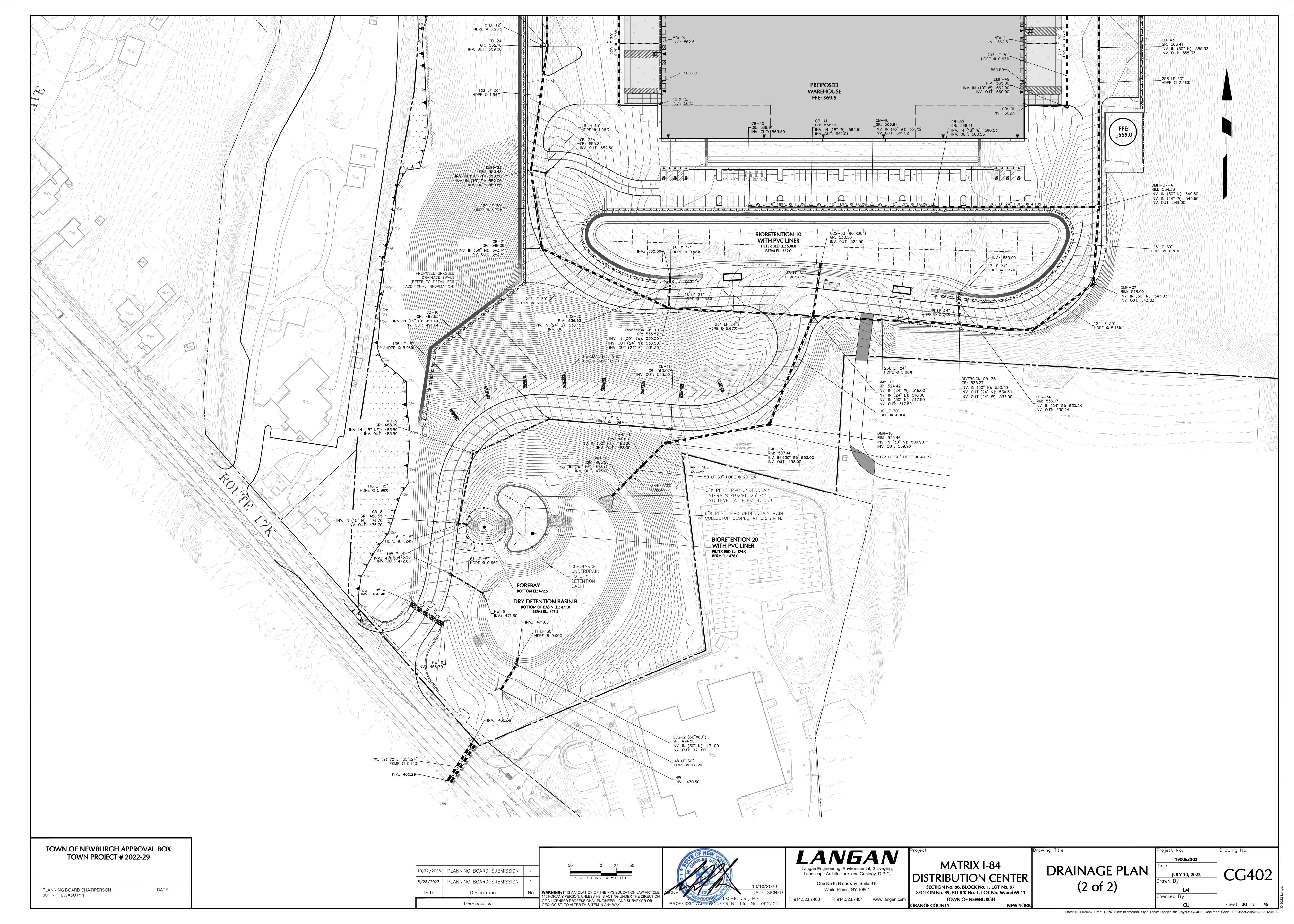
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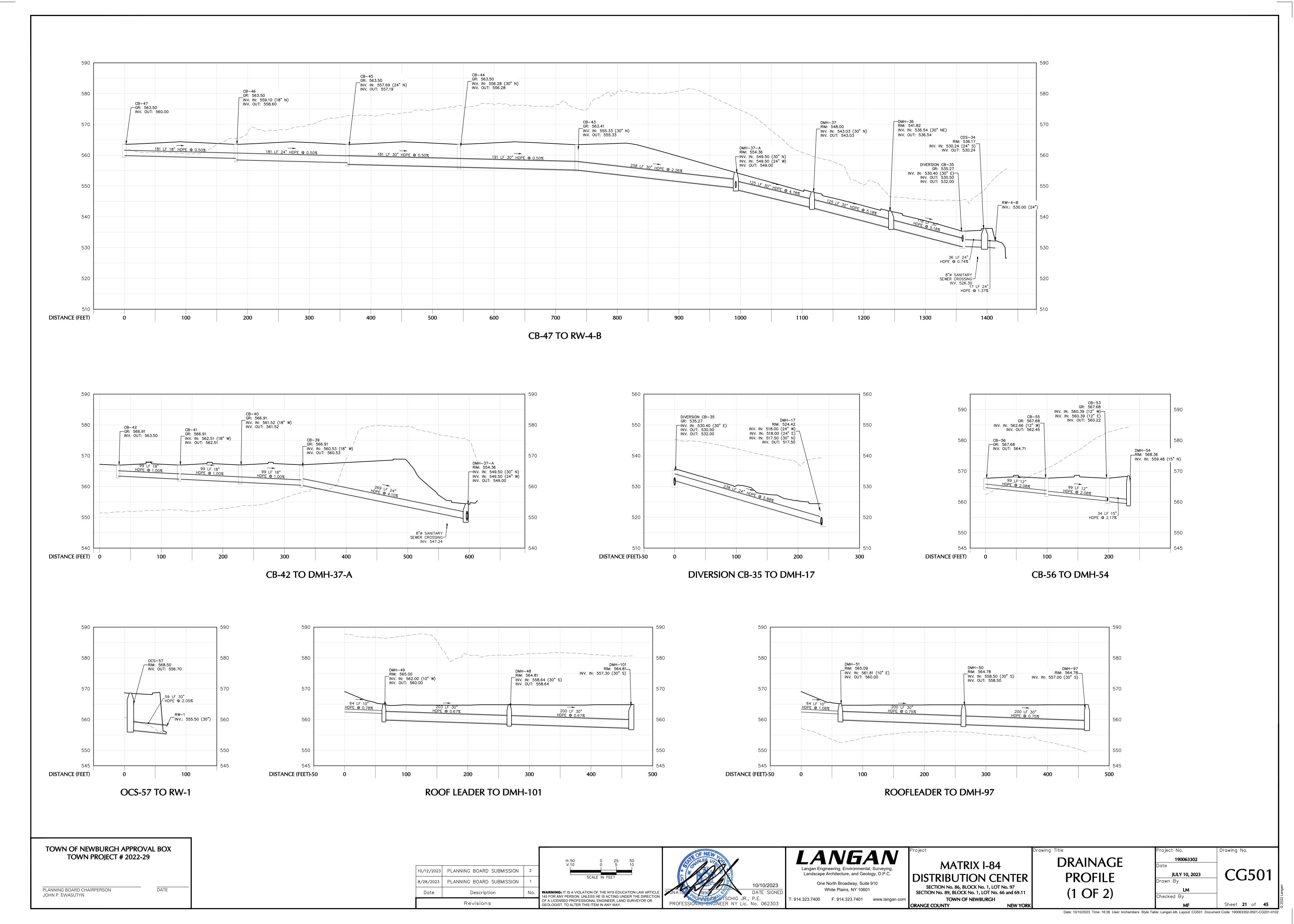
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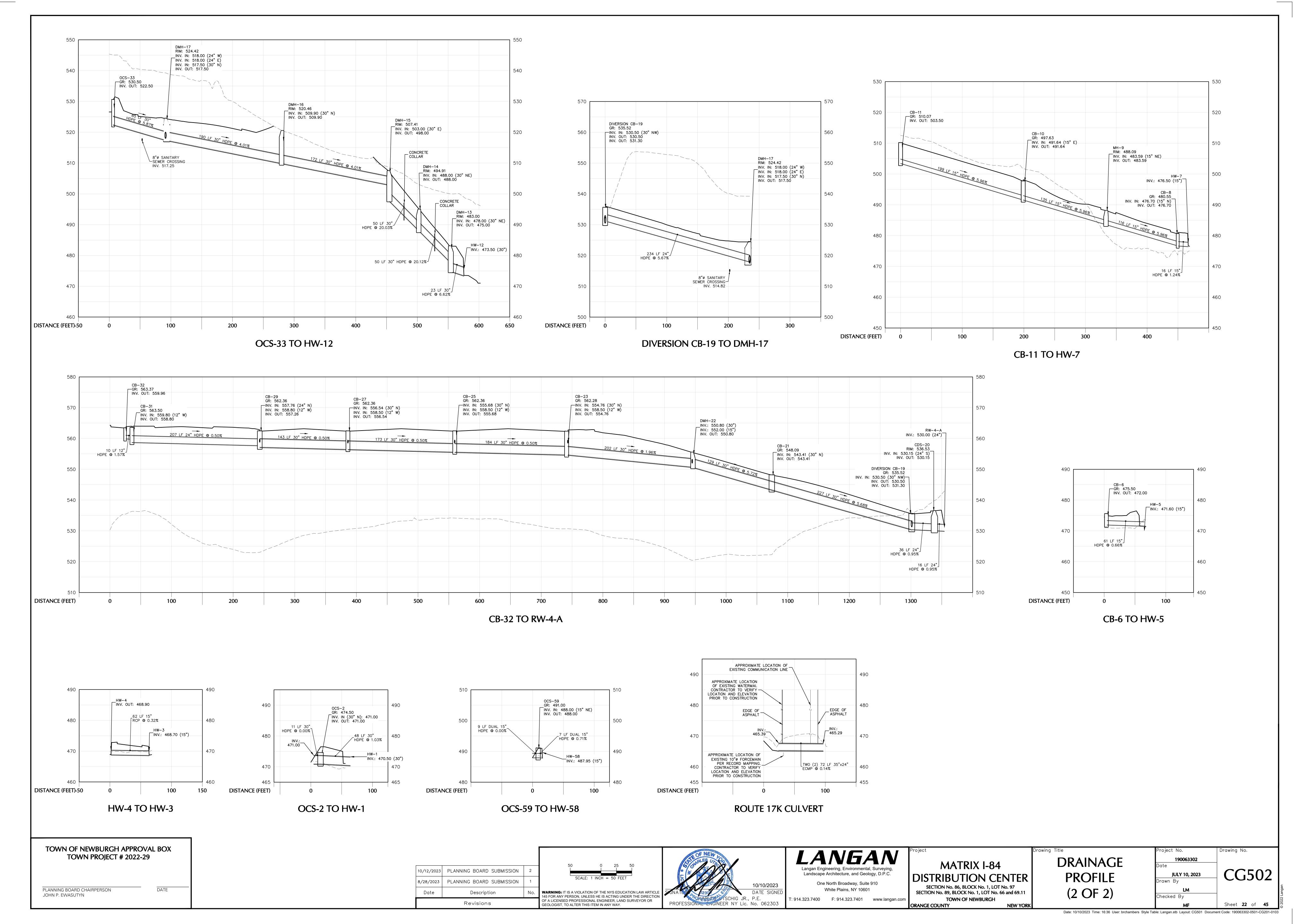


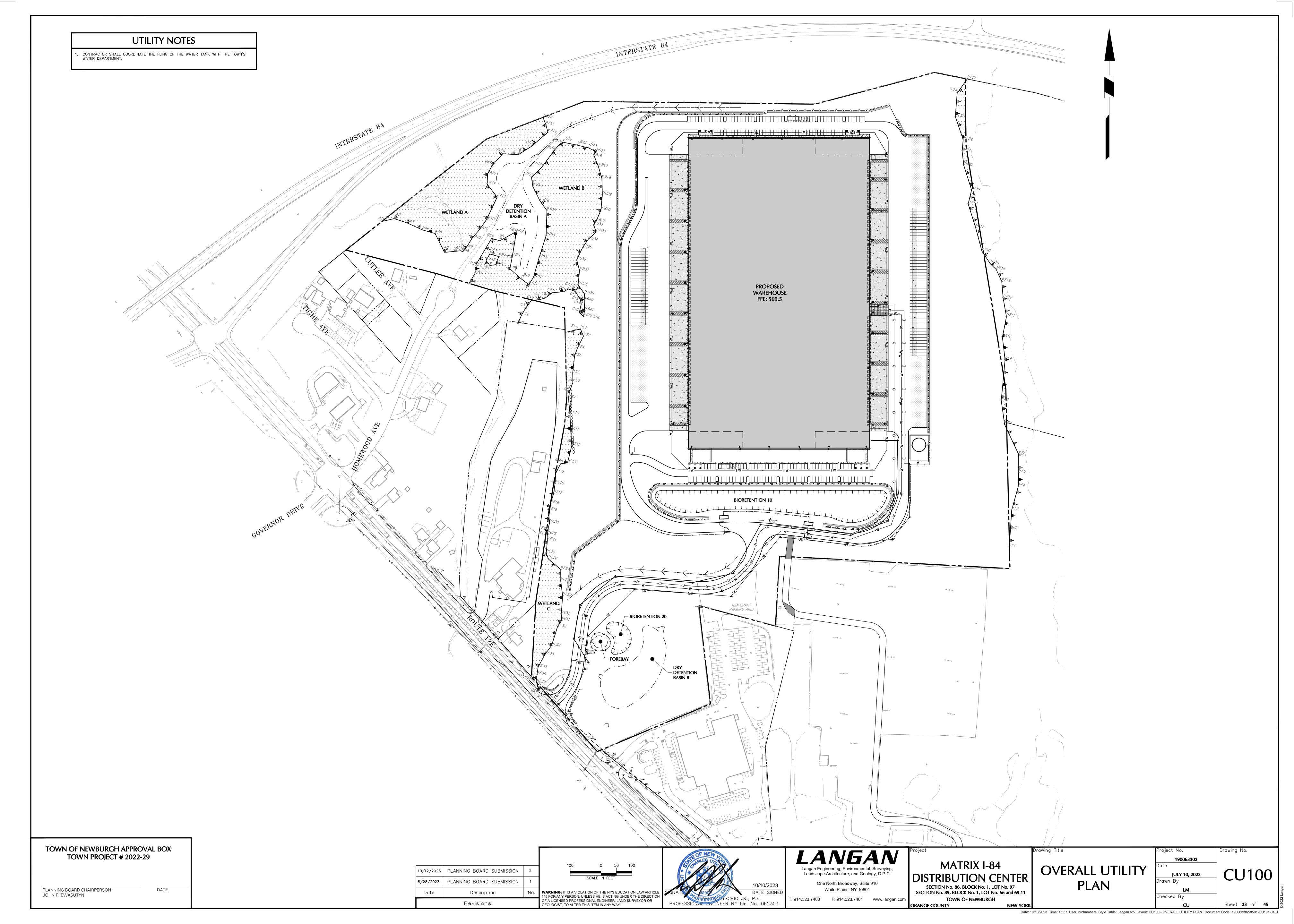


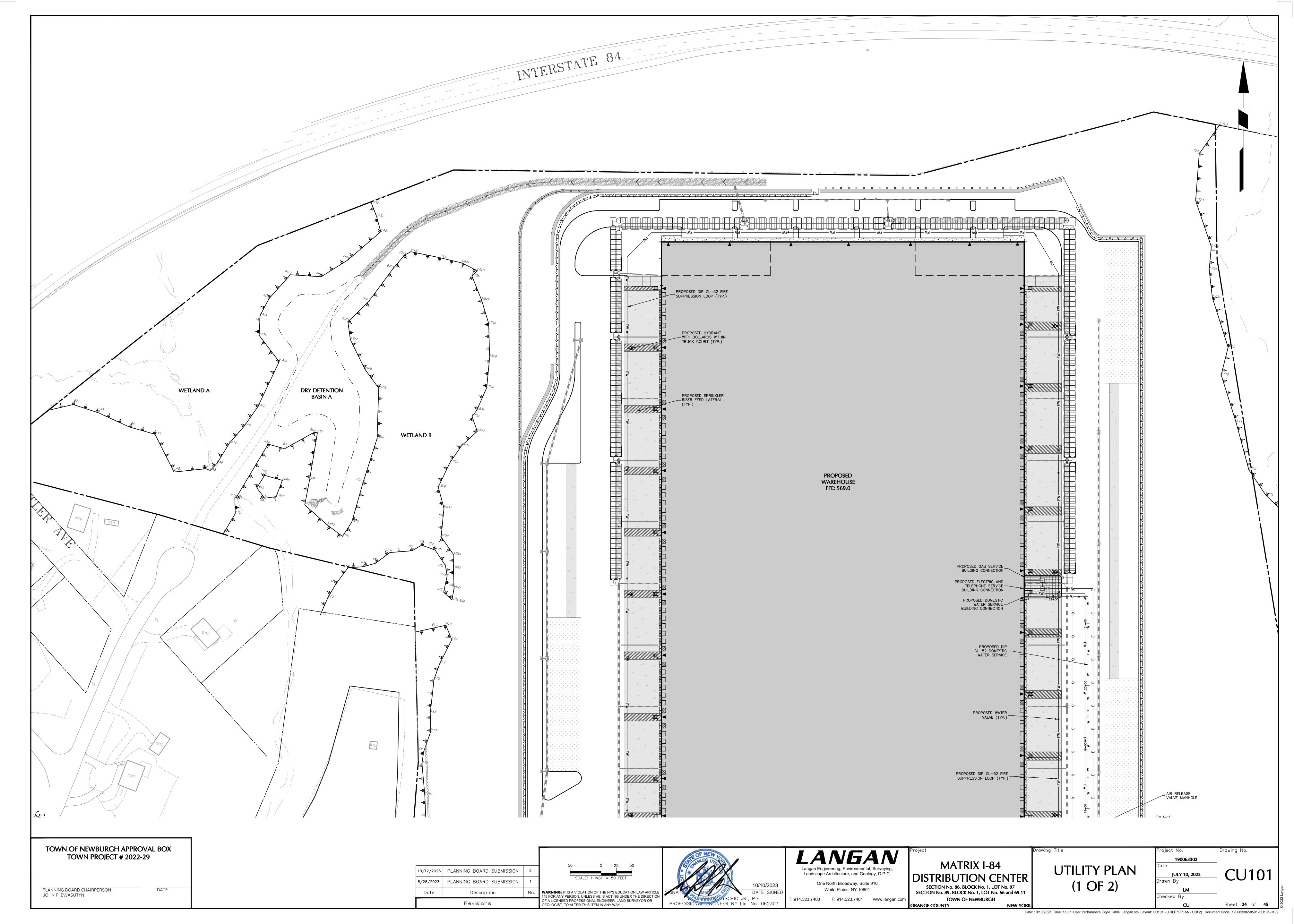


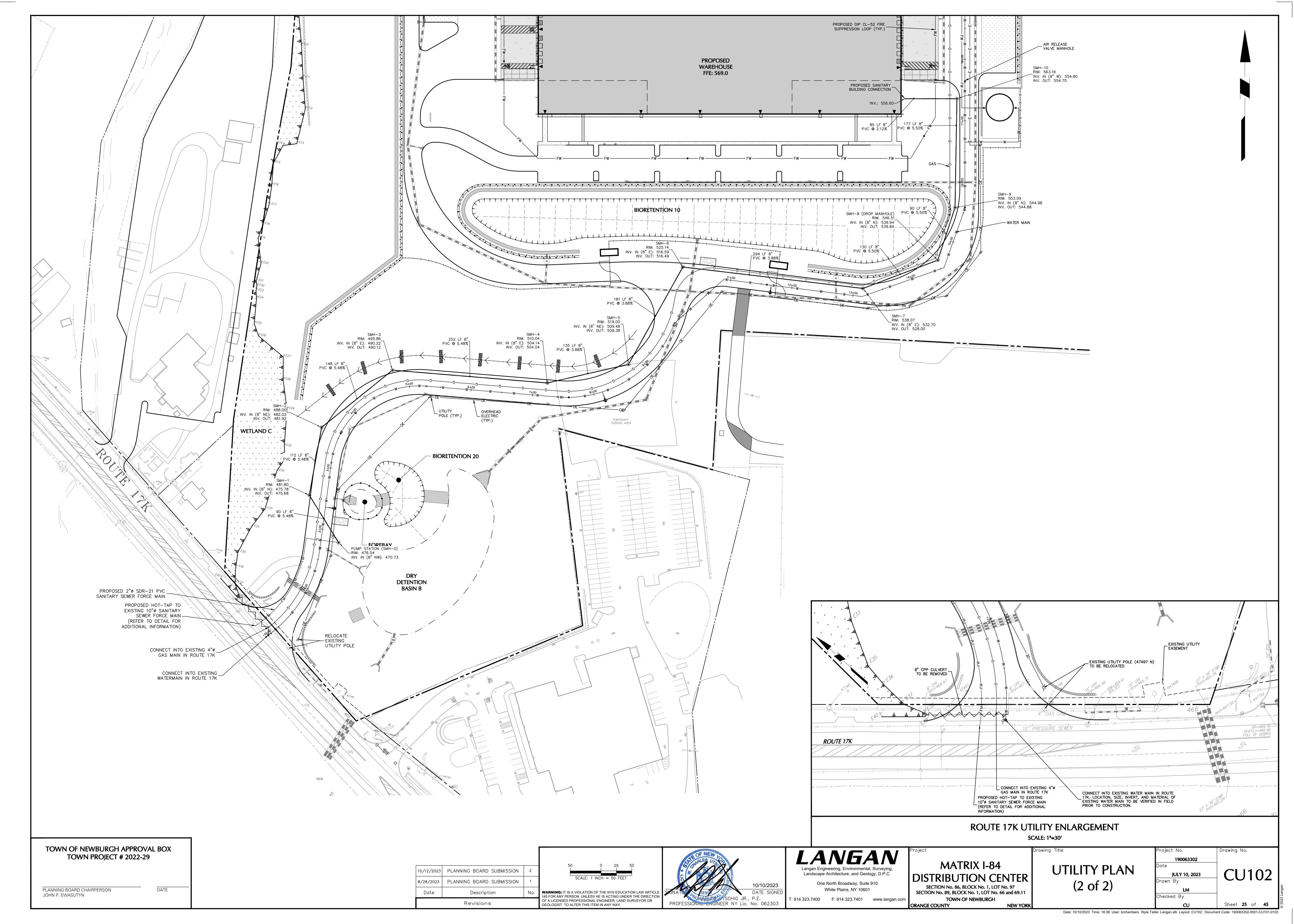


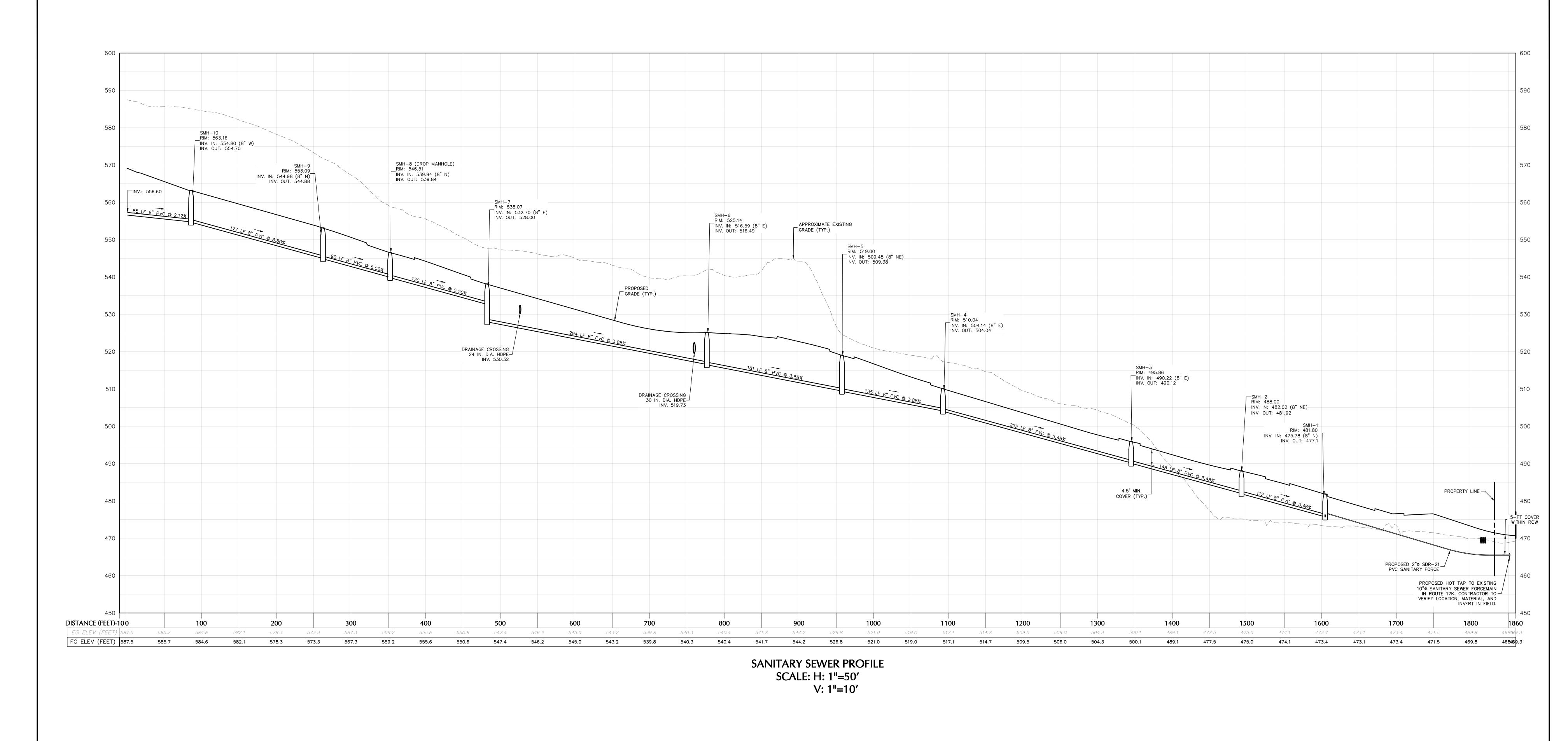












TOWN OF NEWBURGH APPROVAL BOX
TOWN PROJECT # 2022-29

PLANNING BOARD CHAIRPERSON
JOHN P. EWASUTYN

DATE

10/12/2023 PLANNING BOARD SUBMISSION 2

8/28/2023 PLANNING BOARD SUBMISSION 1

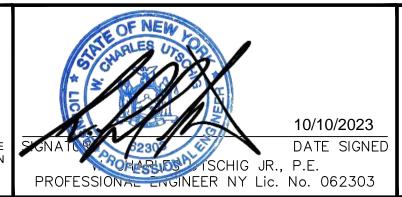
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Revisions

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SCALE IN FEET

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SANITARY
SEWER
PROFILE

Project No.

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Date

JULY 10, 2023

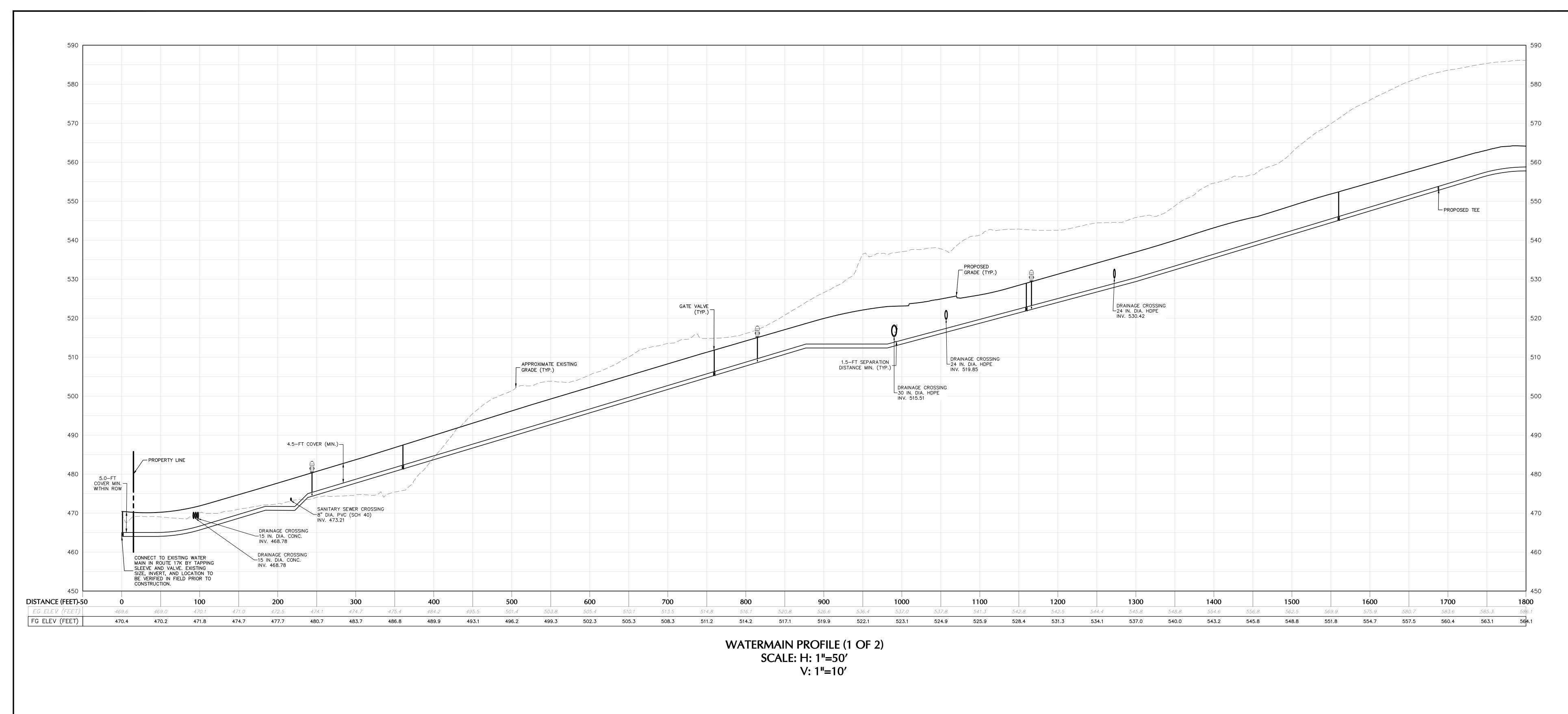
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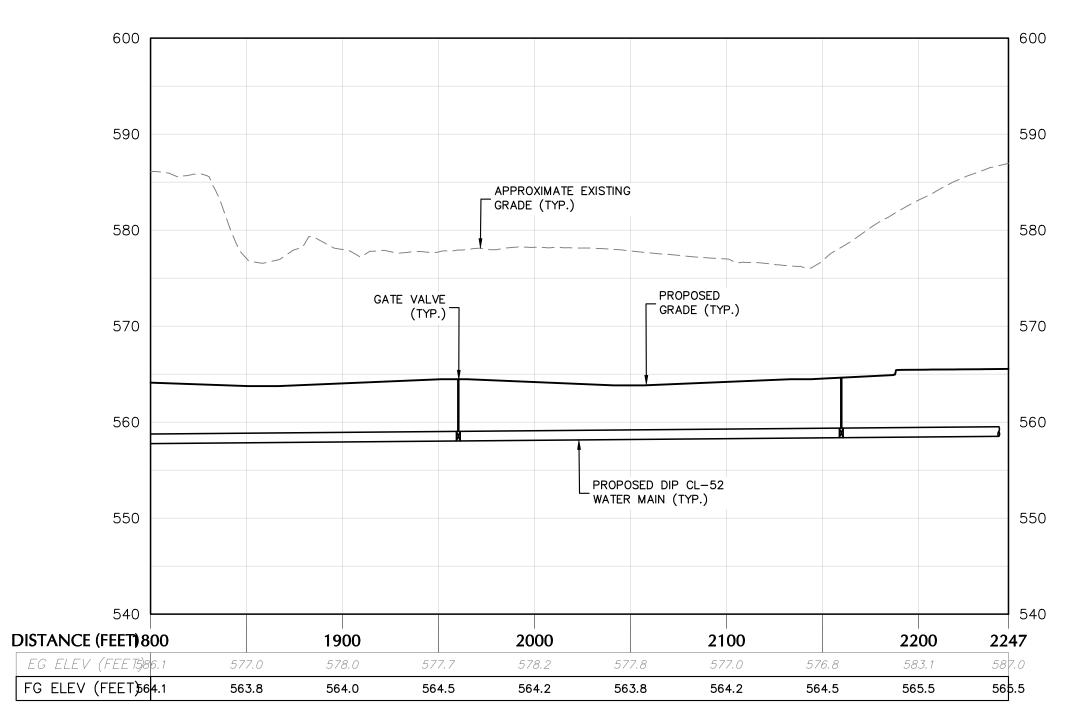
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WATERMAIN PROFILE (2 OF 2) SCALE: H: 1"=50' V: 1"=10'

TOWN OF NEWBURGH APPROVAL BOX TOWN PROJECT # 2022-29

PLANNING BOARD CHAIRPERSON DATE JOHN P. EWASUTYN

10/12/2023 PLANNING BOARD SUBMISSION 2

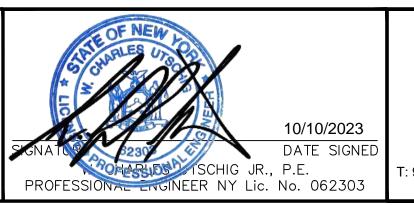
8/28/2023 PLANNING BOARD SUBMISSION 1

Date Description No.

Revisions

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TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK

WATER MAIN PROFILE Project No.

190063302

Date

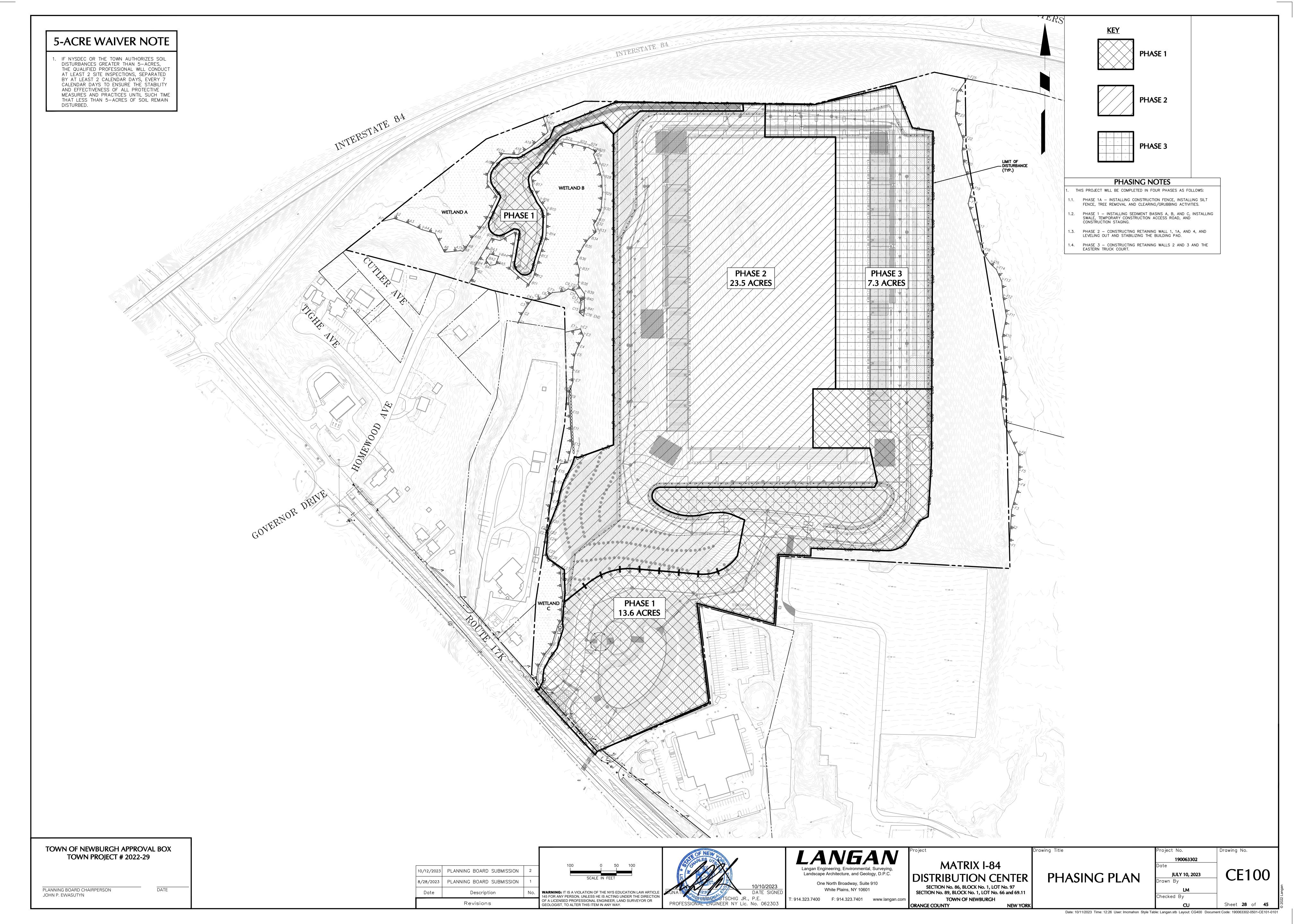
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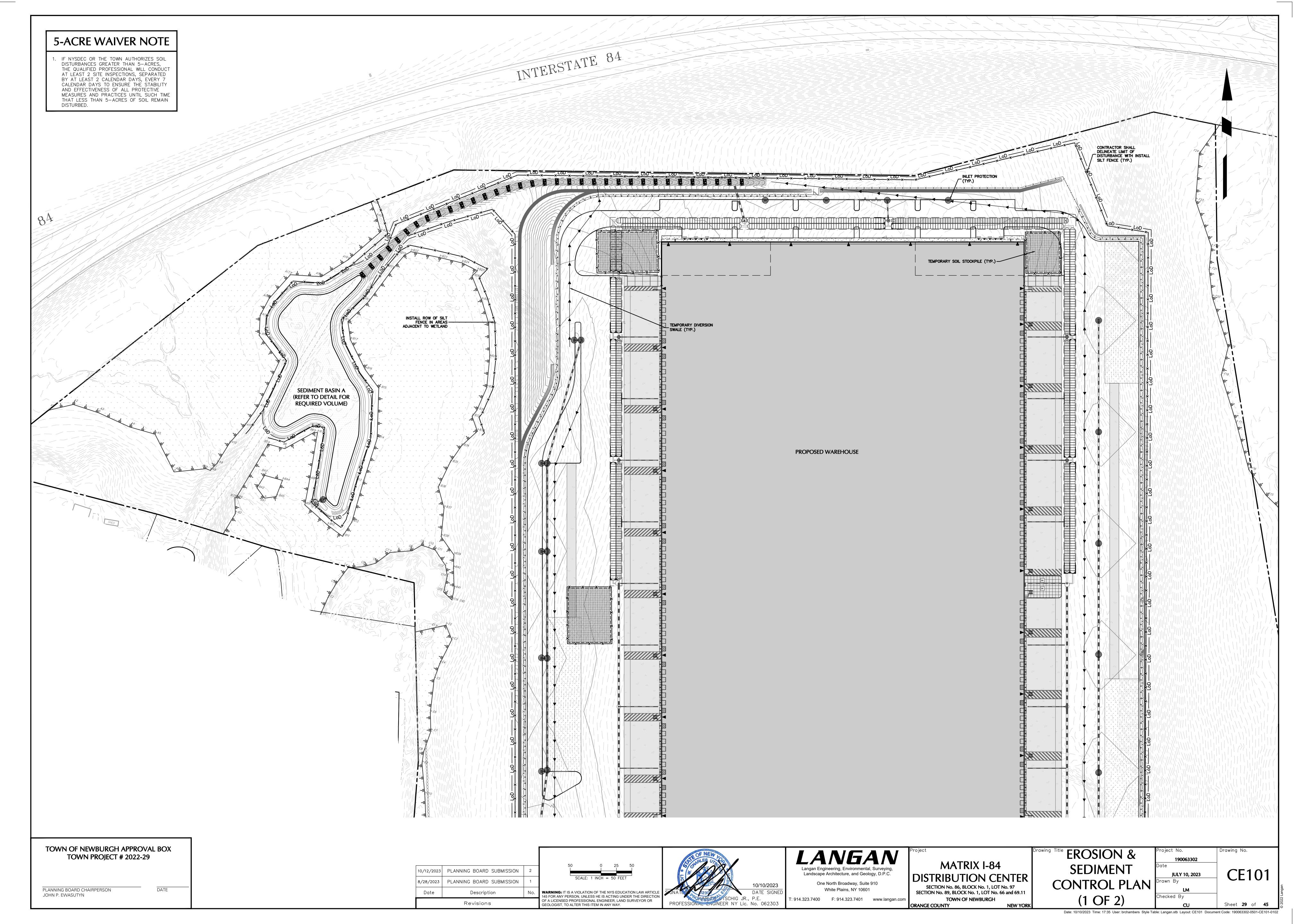
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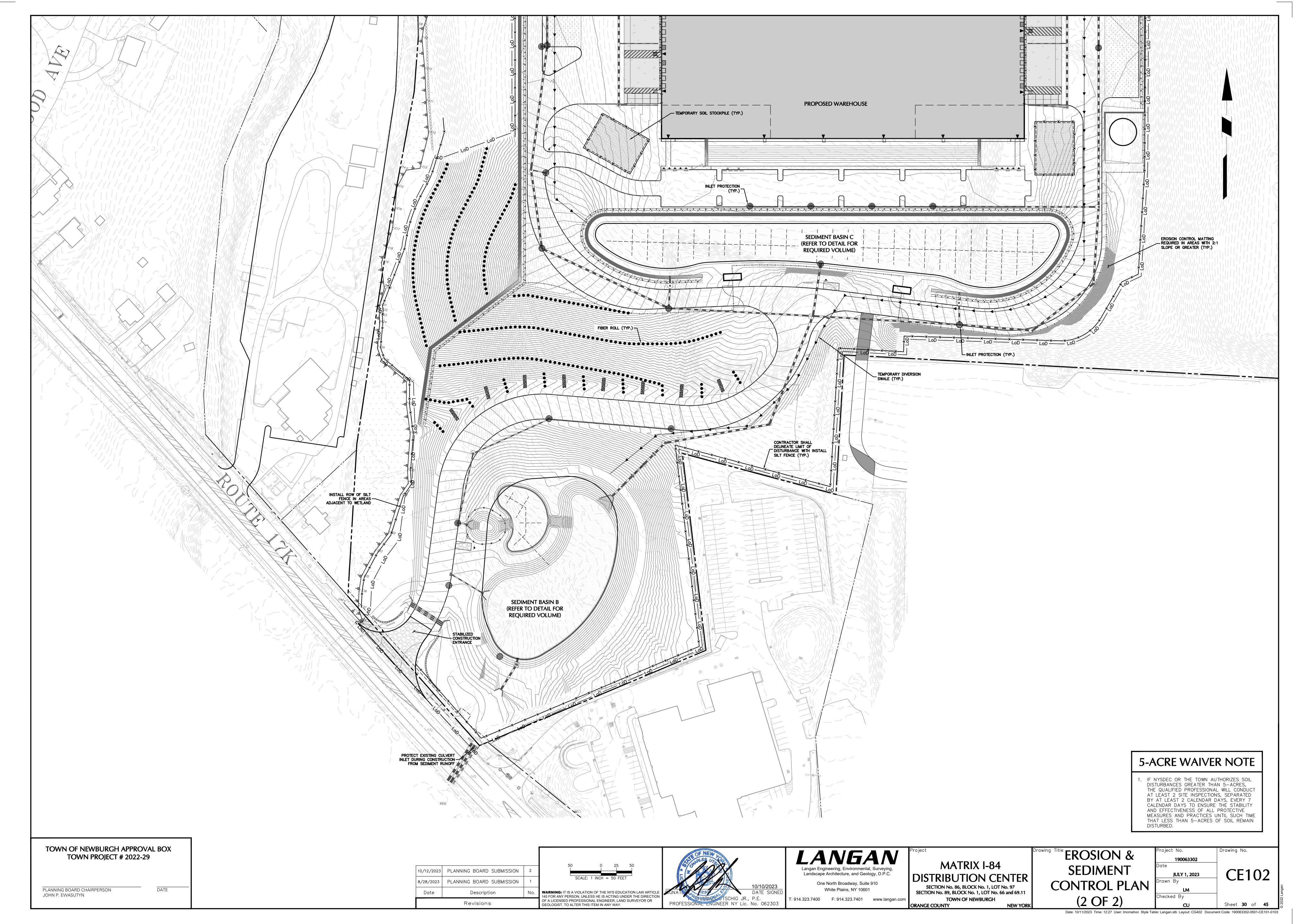
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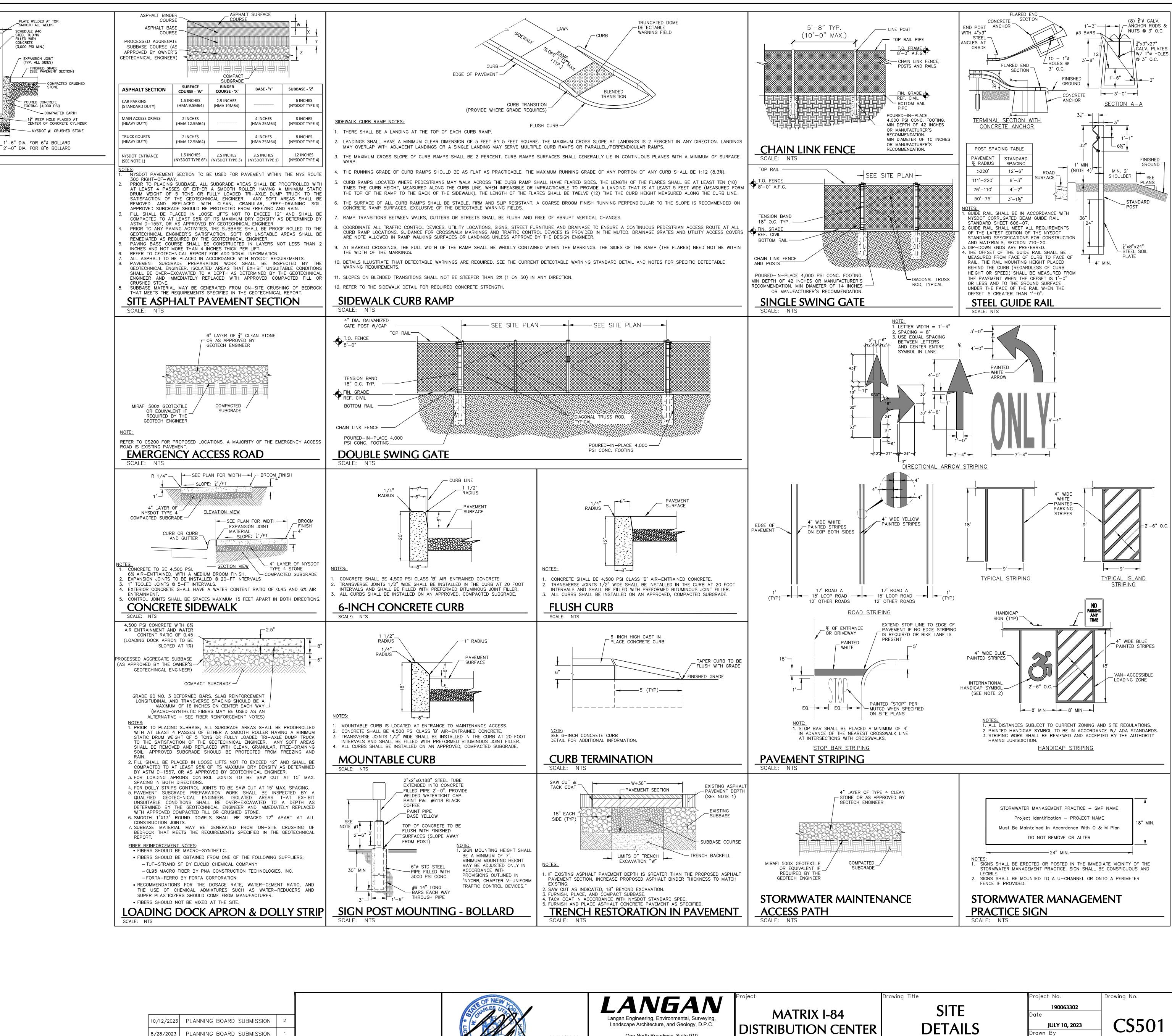
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TOWN OF NEWBURGH APPROVAL BOX **TOWN PROJECT # 2022-29** PLANNING BOARD CHAIRPERSON

JOHN P. EWASUTYN

VARIES REFER TO PLANS

(6"ø OR 8"ø)

8/28/2023 PLANNING BOARD SUBMISSION Description 45 FOR ANY PERSON. UNLESS HE IS ACTING UNDER THE DIRECTIO OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR Revisions SEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.



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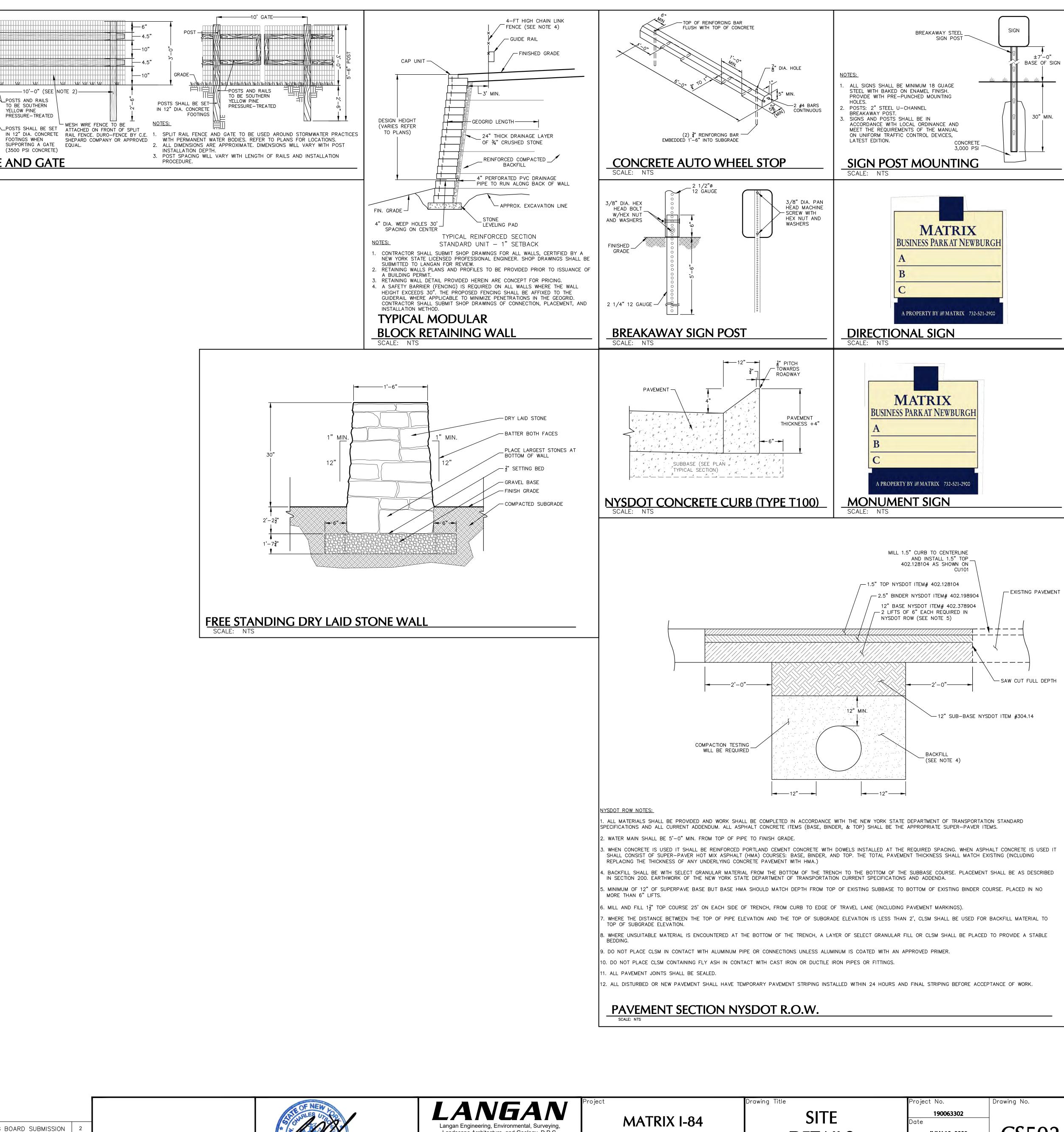
ORANGE COUNTY

TOWN OF NEWBURGH

**DETAILS** (1 OF 2)

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**TOWN PROJECT # 2022-29** PLANNING BOARD CHAIRPERSON JOHN P. EWASUTYN

TOWN OF NEWBURGH APPROVAL BOX

10/12/2023 PLANNING BOARD SUBMISSION 8/28/2023 | PLANNING BOARD SUBMISSION WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLI Description 45 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR Revisions GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

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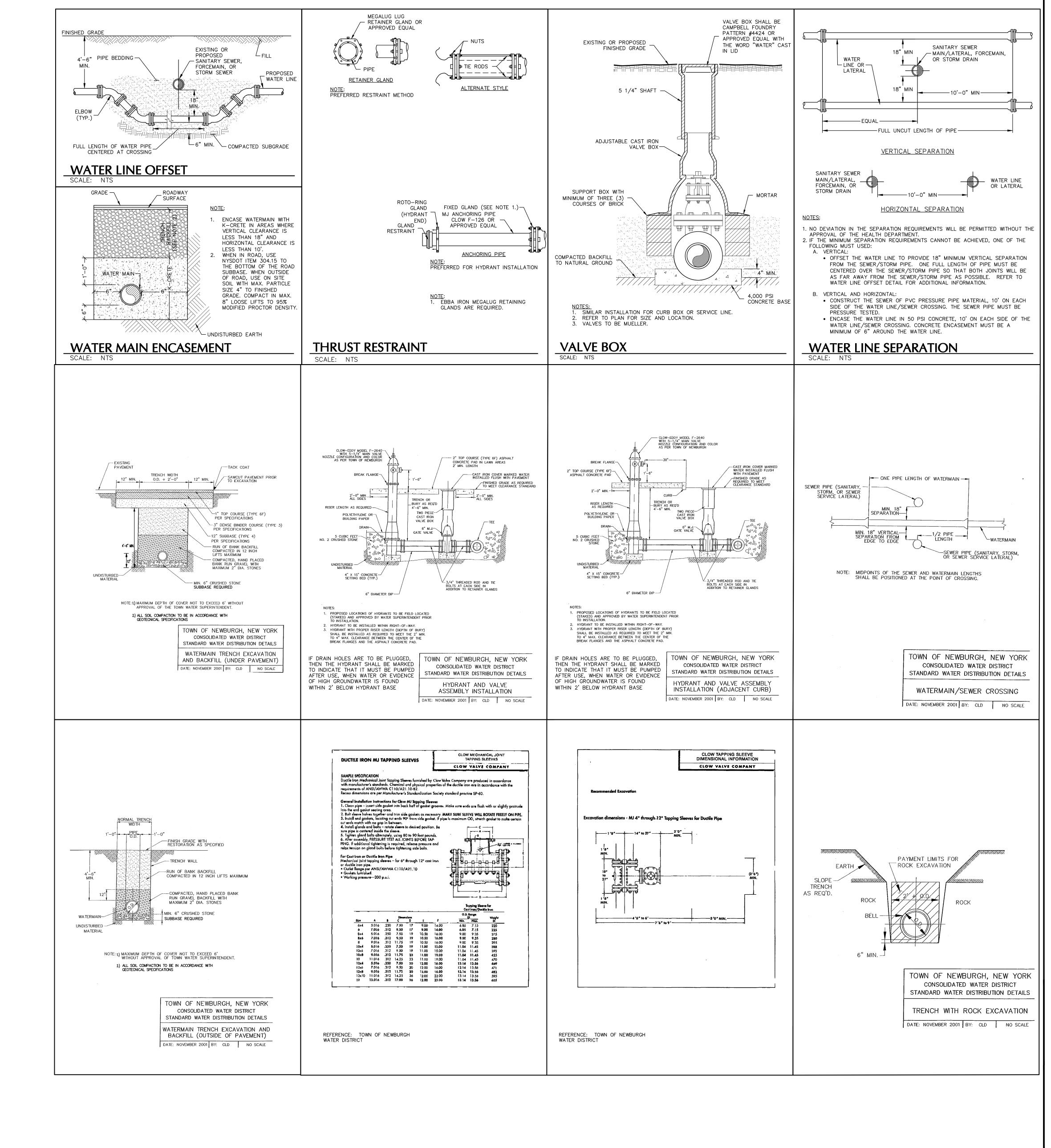
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ORANGE COUNTY

**DETAILS** (2 OF 2)

CS502 **JULY 10, 2023** Drawn By Checked By

Date: 10/10/2023 Time: 16:40 User: brchambers Style Table: Langan.stb Layout: CS502 Document Code: 190063302-0501-CS501-0102



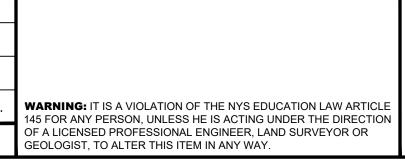
TOWN OF NEWBURGH APPROVAL BOX TOWN PROJECT # 2022-29

PLANNING BOARD CHAIRPERSON DATE
JOHN P. EWASUTYN

10/12/2023 PLANNING BOARD SUBMISSION 2

8/28/2023 PLANNING BOARD SUBMISSION 1

Date Description No.





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**NEW YORK** 

ORANGE COUNTY

WATER DETAILS

Project No.

190063302

Date

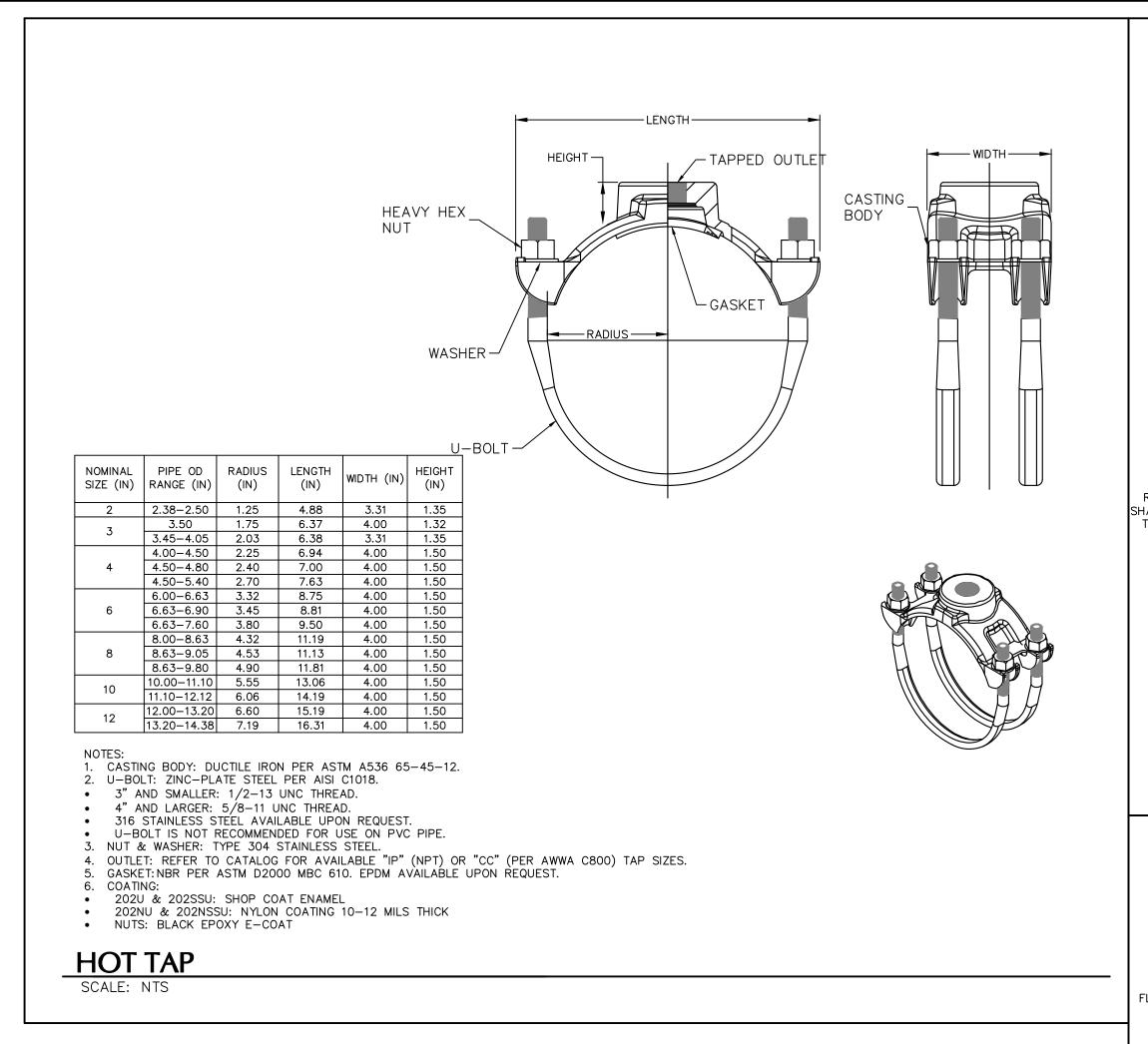
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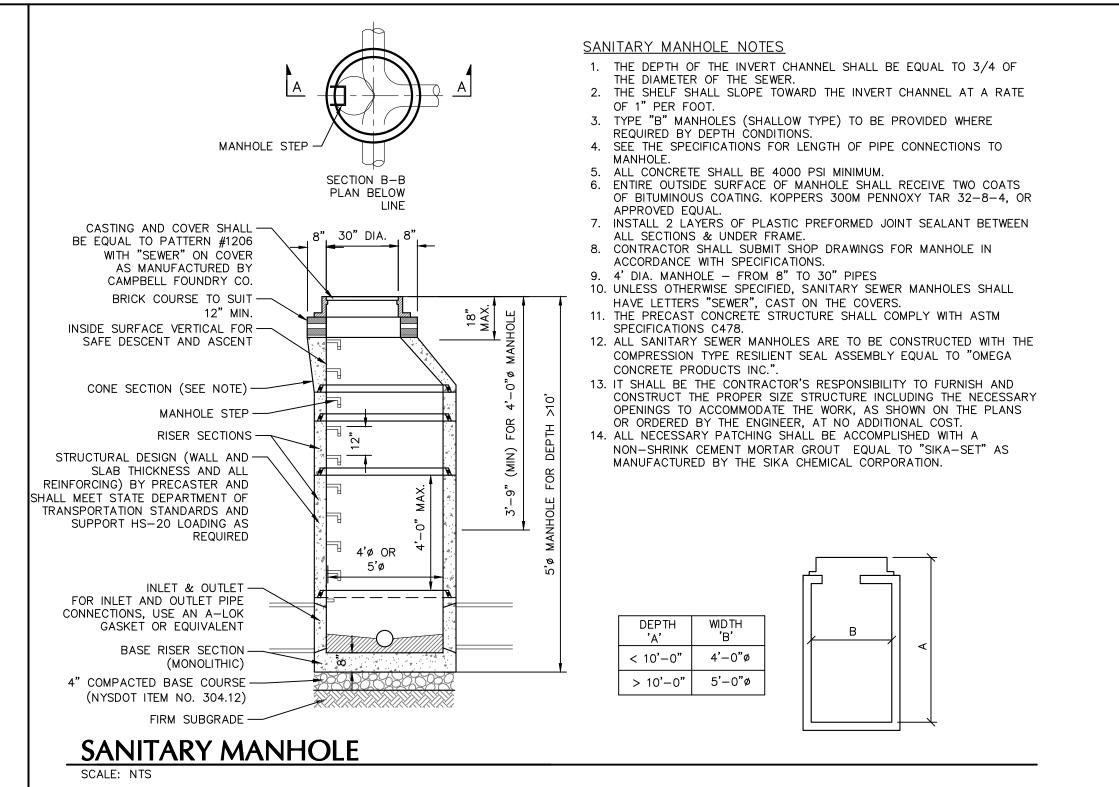
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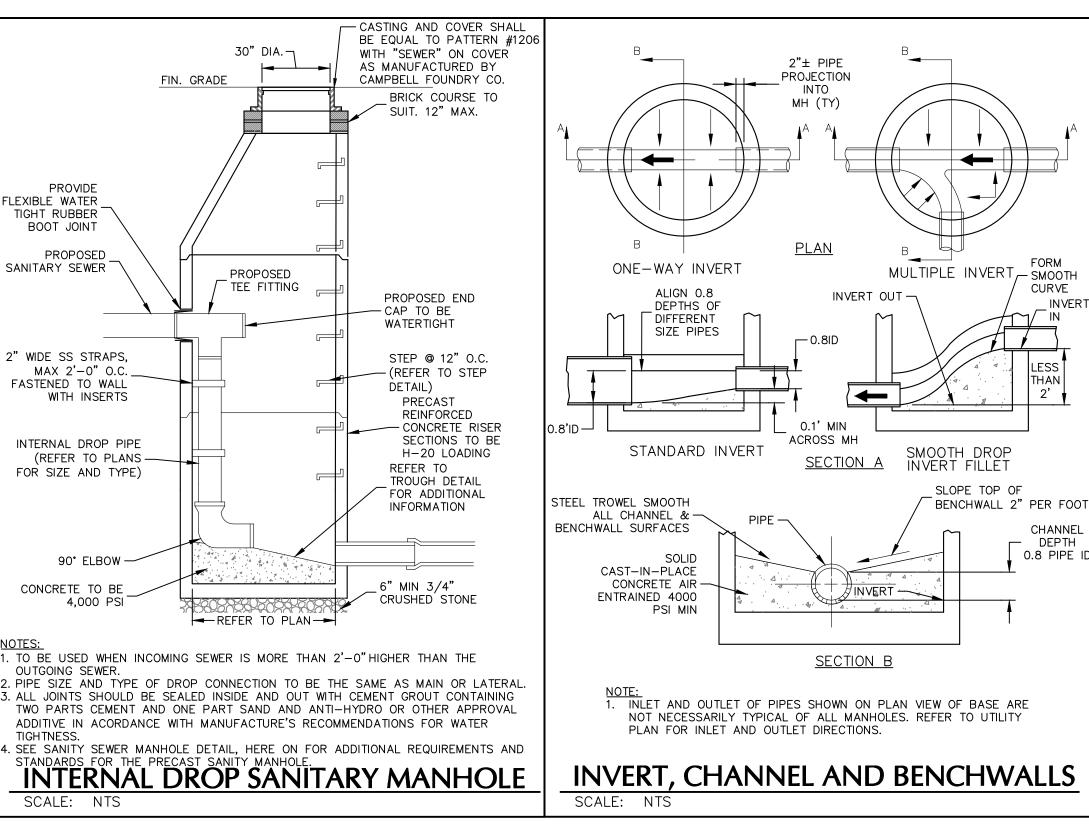
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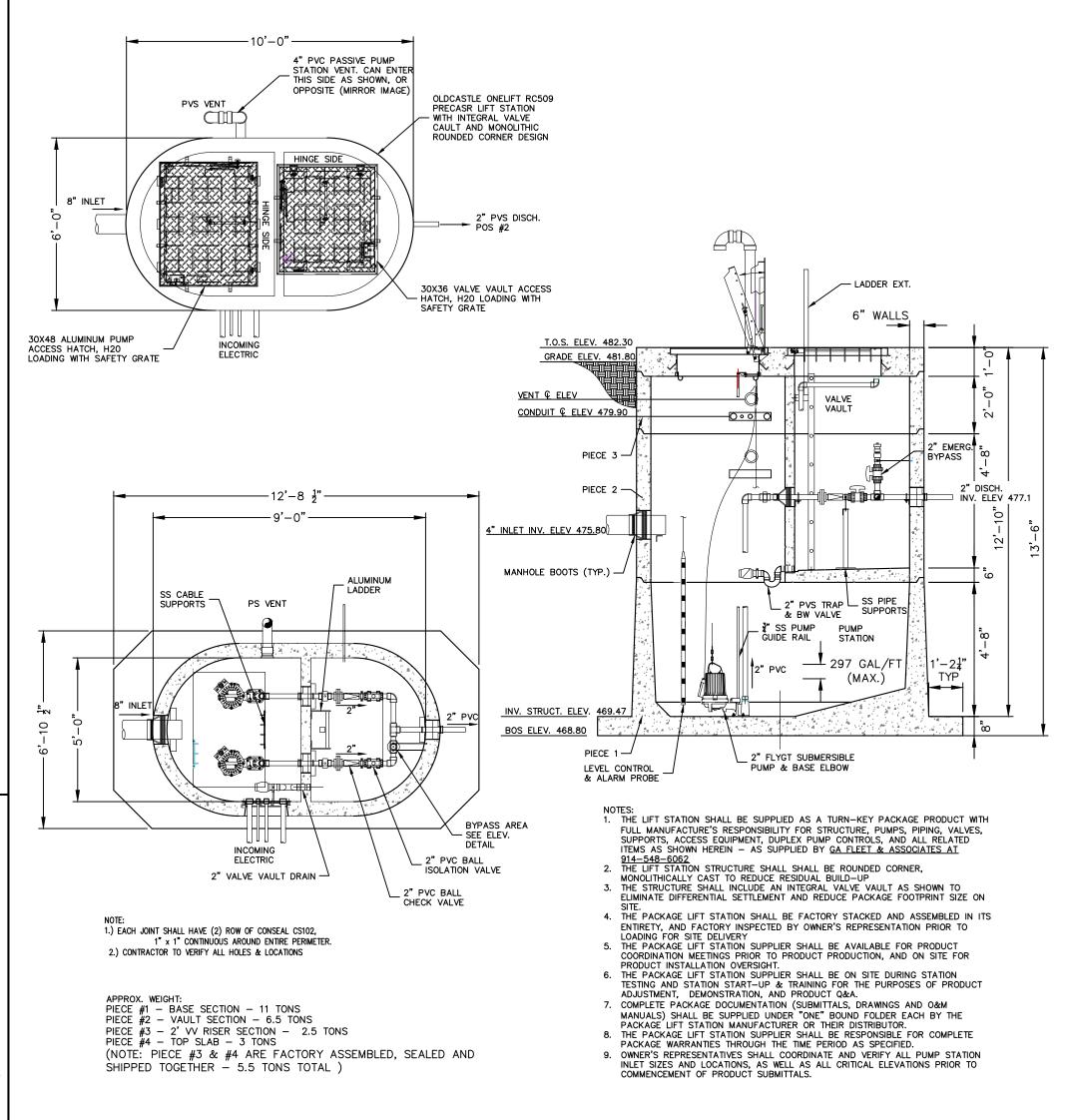
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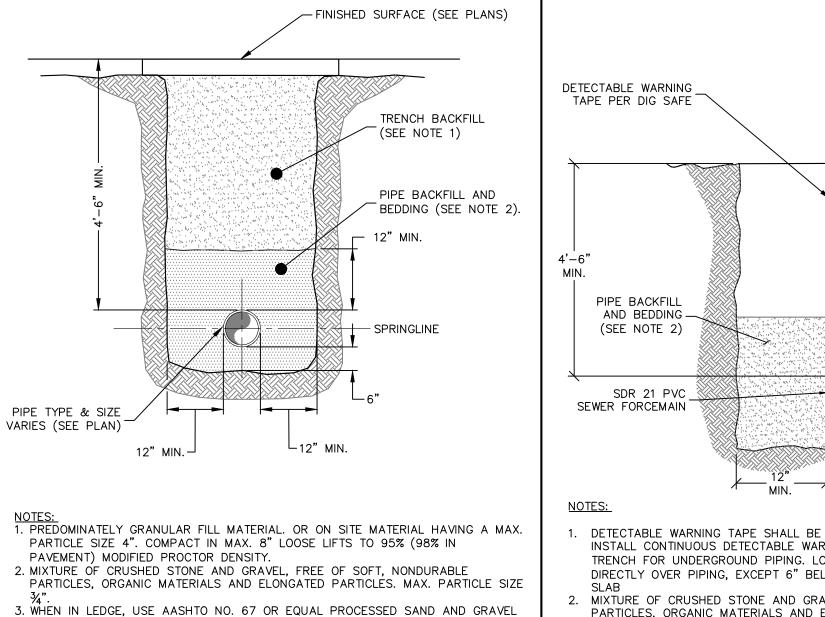
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FREE OF DEBRIS, CLAY LUMPS, ORGANIC, OR OTHER DELETERIOUS MATERIAL.

4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

COMPACT TO THE SPRINGLINE.

**SEWER PIPE TRENCH** 

NOTES:

1. DETECTABLE WARNING TAPE SHALL BE GREEN AND MARKED "SEWER LINE". INSTALL CONTINUOUS DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB

2. MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES. MAX. PARTICLE SIZE 3/4".

3. WHEN IN LEDGE, USE AASHTO NO. 67 OR EQUAL PROCESSED SAND AND GRAVEL FREE OF DEBRIS, CLAY LUMPS, ORGANIC, OR OTHER DELETERIOUS

4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

FINISHED GRADE -

SUITABLE BACKFIL

FREE OF ORGANIC

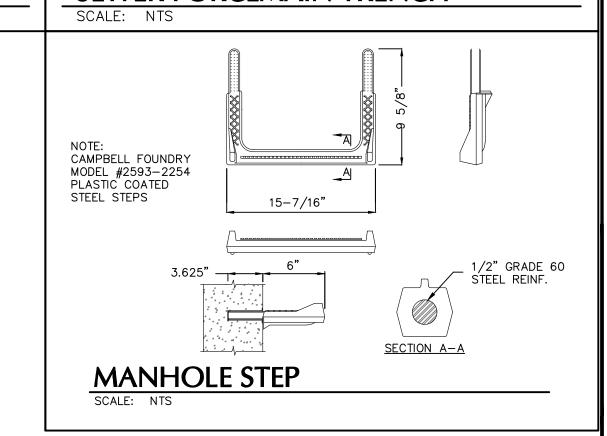
MATERIAL AND

STONE GREATER

THAN 4"

SEWER FORCEMAIN TRENCH

MATERIAL. COMPACT TO THE SPRINGLINE.

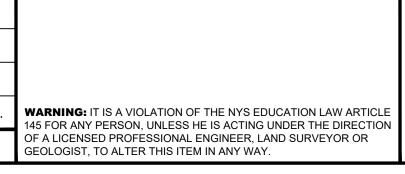


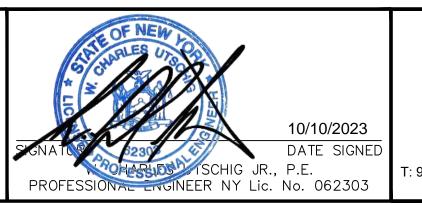
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TOWN OF NEWBURGH APPROVAL BOX TOWN PROJECT # 2022-29

PLANNING BOARD CHAIRPERSON DATE
JOHN P. EWASUTYN

23	2/2023 PLANNING BOARD SUBMISSION	2	
3	/2023 PLANNING BOARD SUBMISSION	1	
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Revisions			







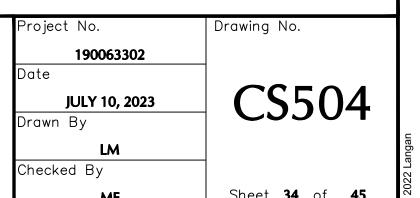


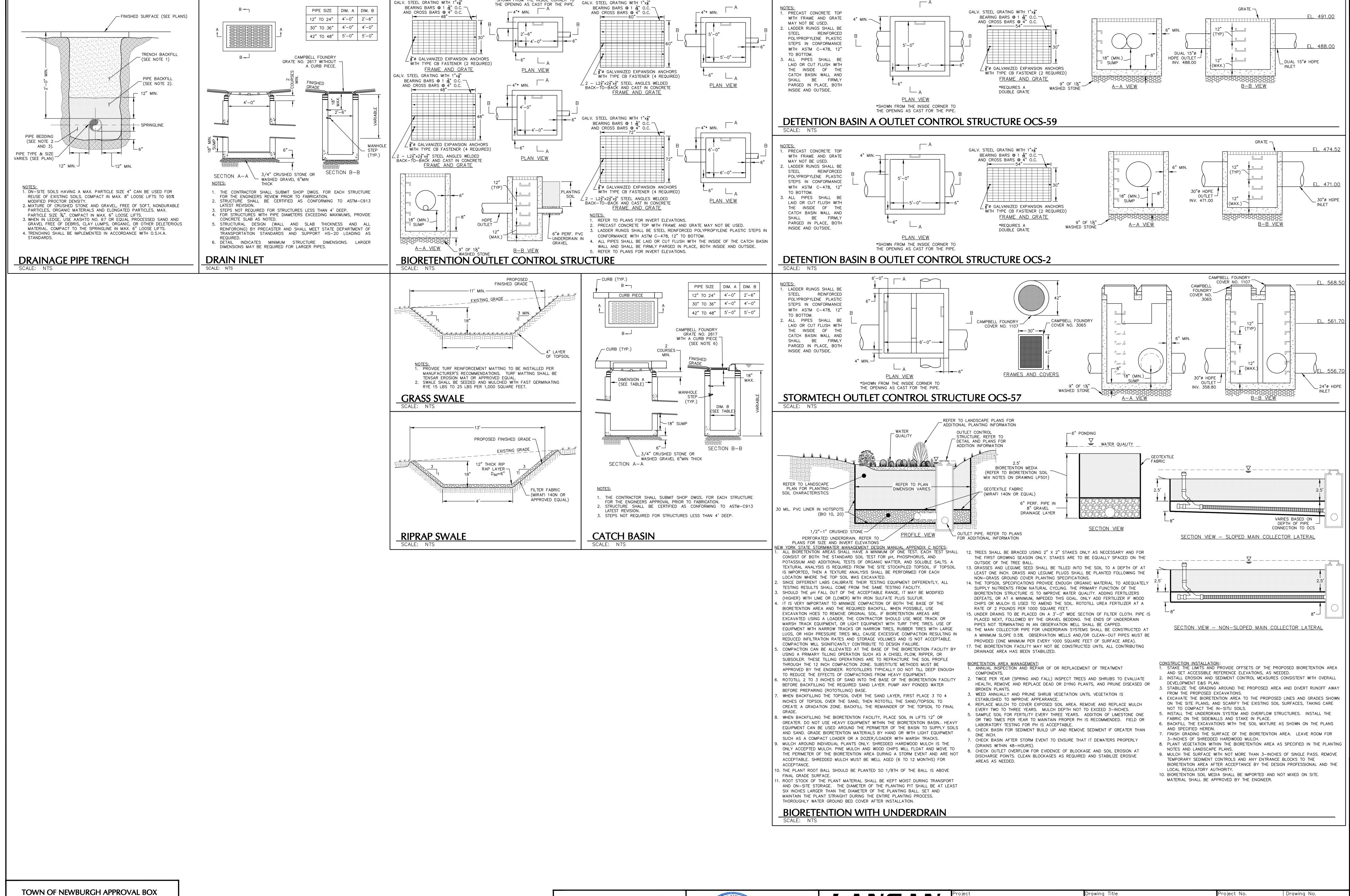
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ORANGE COUNTY

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**TOWN PROJECT # 2022-29** PLANNING BOARD CHAIRPERSON JOHN P. EWASUTYN

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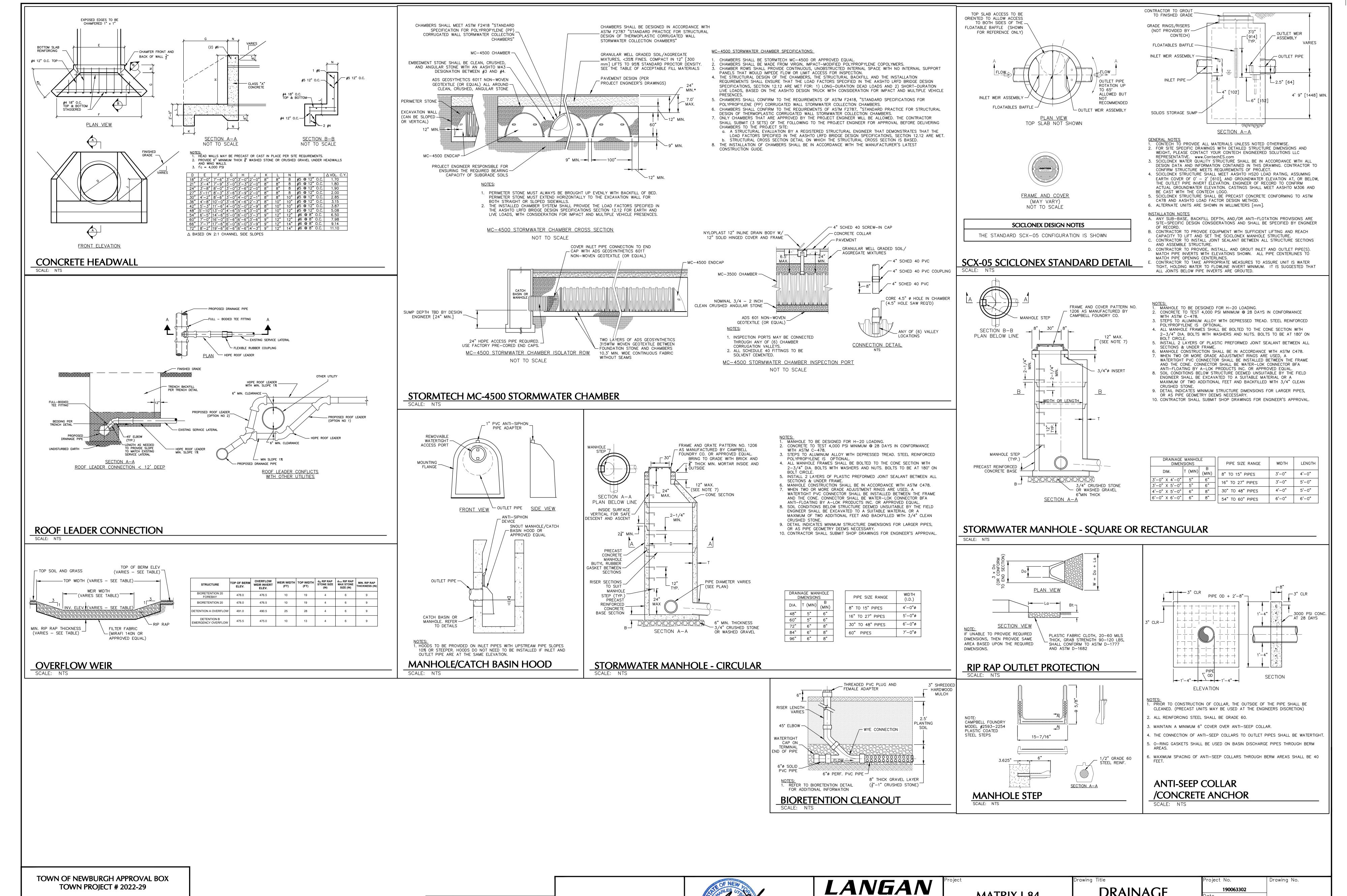
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**DRAINAGE DETAILS** (1 OF 2)

Drawing No. 190063302 **CS505 JULY 10, 2023** Drawn By Checked By

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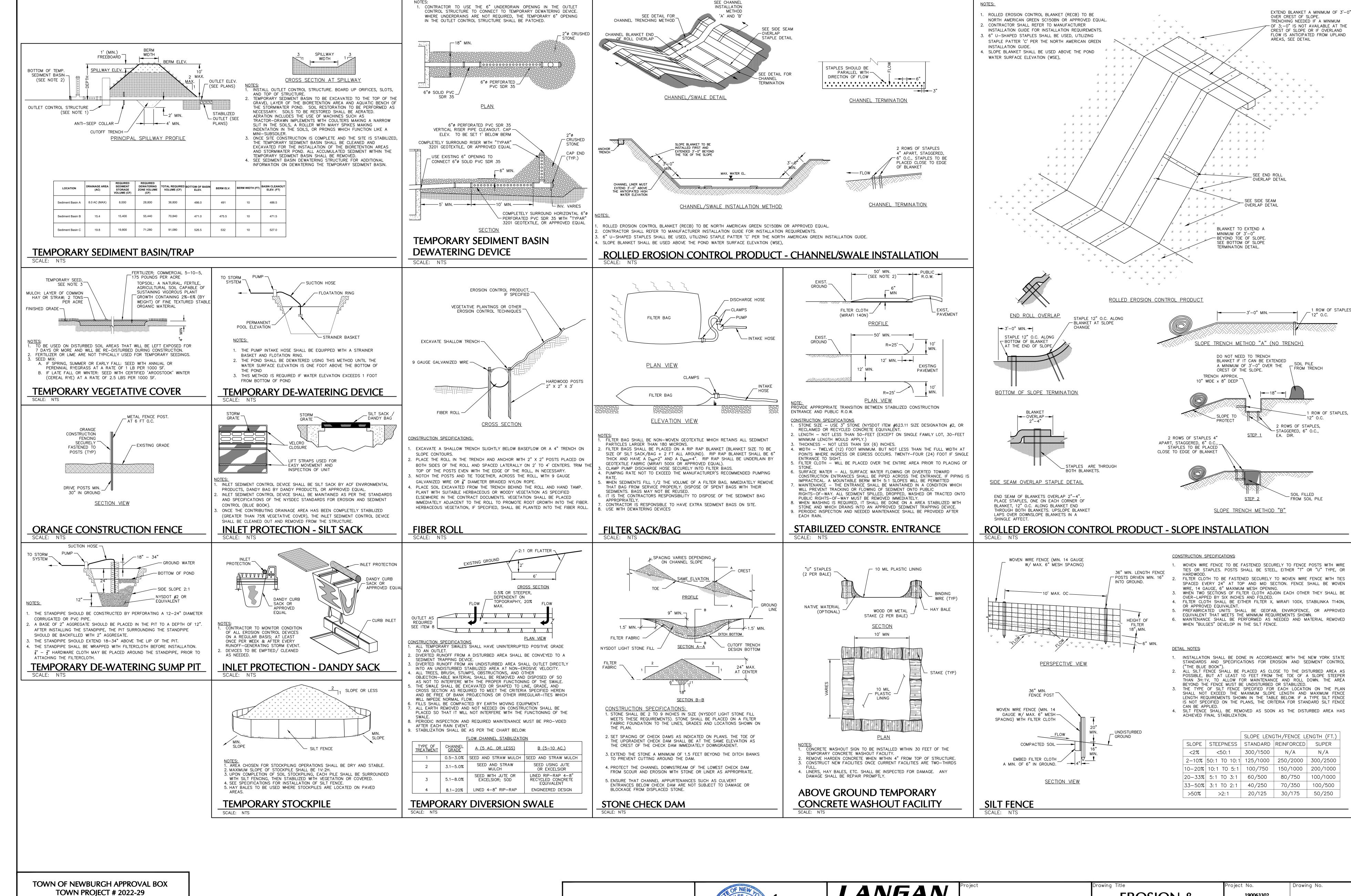


PLANNING BOARD CHAIRPERSON

JOHN P. EWASUTYN

**DRAINAGE** 190063302 MATRIX I-84 10/12/2023 PLANNING BOARD SUBMISSION DISTRIBUTION CENTER **DETAILS JULY 10, 2023** 8/28/2023 PLANNING BOARD SUBMISSION Drawn By One North Broadway, Suite 910 10/10/2023 SECTION No. 86, BLOCK No. 1, LOT No. 97 White Plains, NY 10601 (2 OF 2) WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICL SECTION No. 89, BLOCK No. 1, LOT No. 66 and 69.11 Description Checked By 45 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION : 914.323.7400 F: 914.323.7401 www.langan.co TOWN OF NEWBURGH OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR Revisions GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY. ORANGE COUNTY **NEW YORK** Date: 10/10/2023 Time: 16:41 User: brchambers Style Table: Langan.stb Layout: CS506 Document Code: 190063302-0501-CS501-0106

**CS506** 



PLANNING BOARD CHAIRPERSON JOHN P. EWASUTYN

10/12/2023 PLANNING BOARD SUBMISSION 8/28/2023 PLANNING BOARD SUBMISSION Description Revisions

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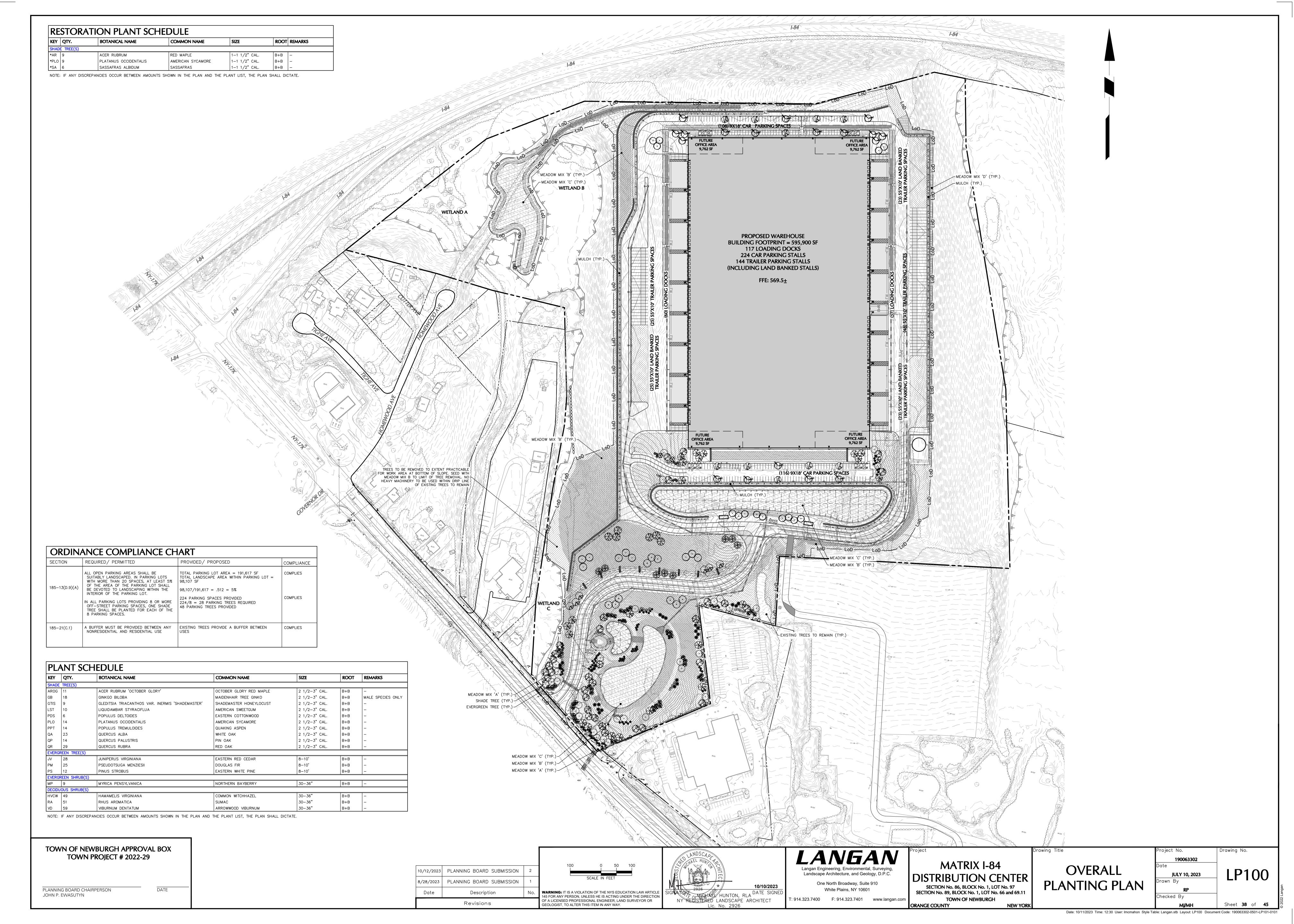
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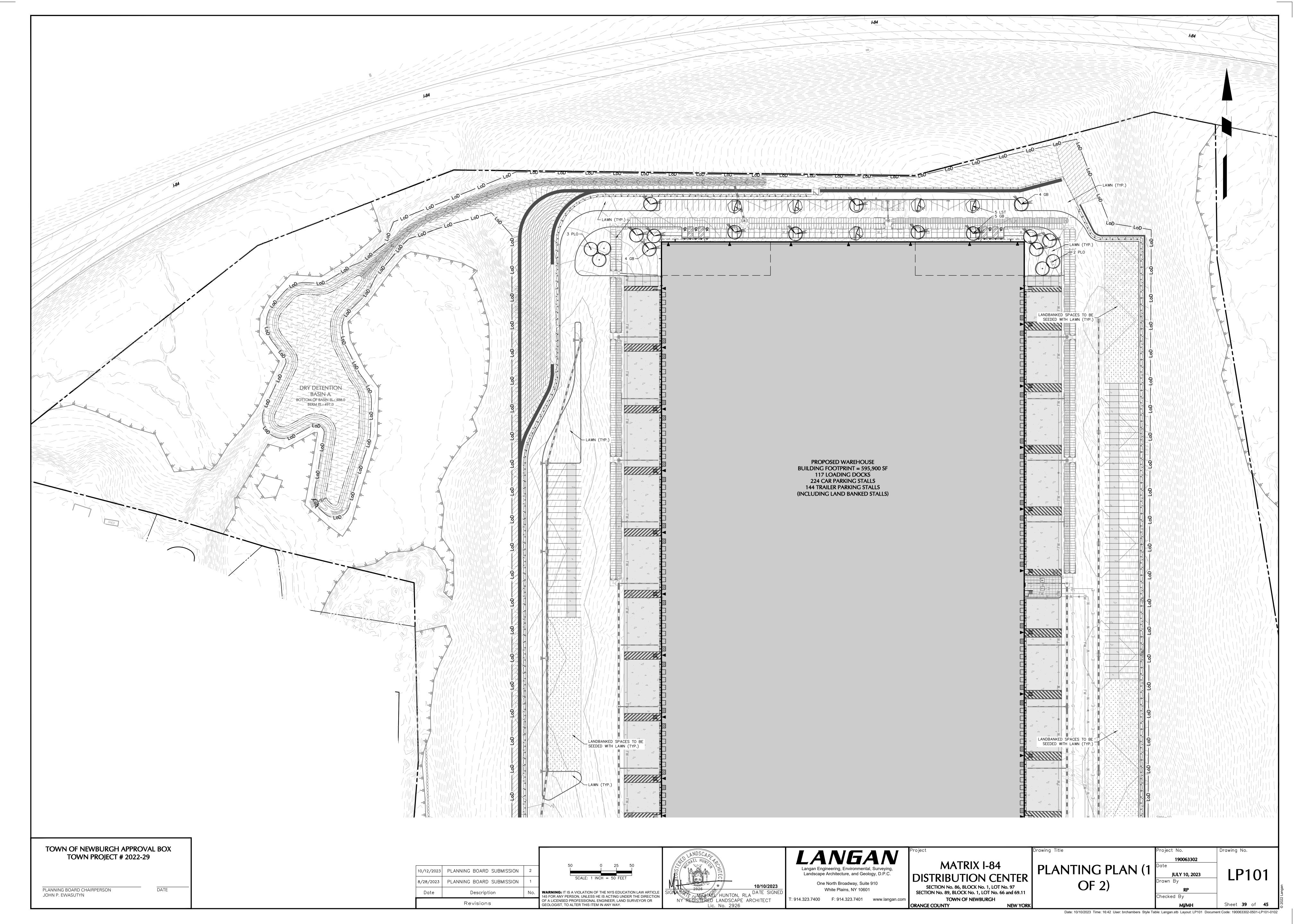
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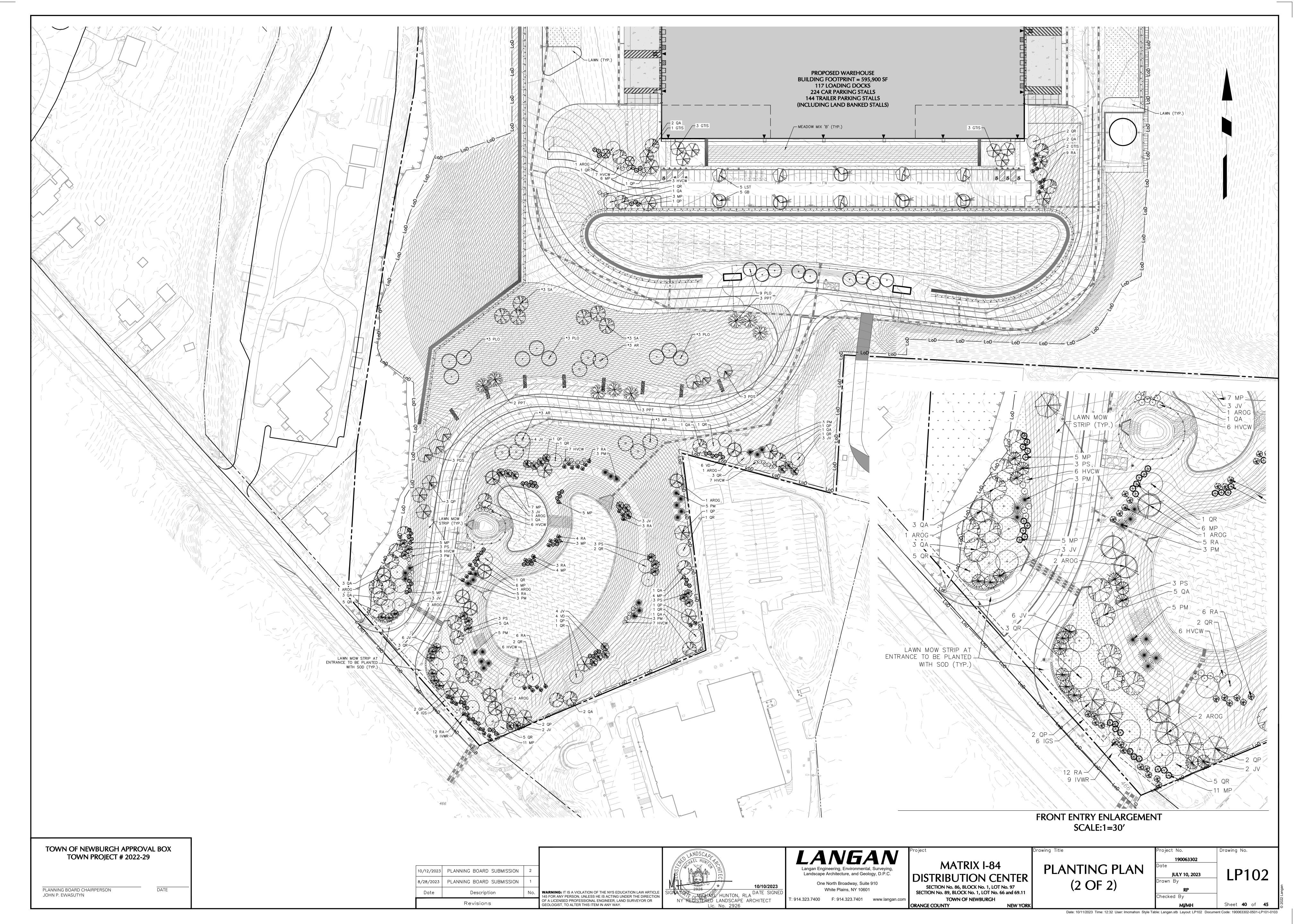
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190063302 **CS507 JULY 10, 2023** 

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### GENERAL LANDSCAPE PLANTING NOTES

- NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE.
   ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
   STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED
- BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION.

  5. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN
- PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES.

  6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES PRIOR
- TO THE START OF EXCAVATION ACTIVITIES. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.

  7. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND
- 8. LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.
- 9. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. THE CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
- 10. DELIVERY, STORAGE, AND HANDLING
  A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT,

OWNER, TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.

- ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY, AND WHILE STORED AT SITE.

  B. TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND—TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING
- TRANSIT. DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING.

  C. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOTBALL WRAPPING AND BINDING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO

MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE

- SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK,
  THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO
  LOCATIONS.

  D. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING
  HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER
  DELIVERY, THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND
- 11. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND AND UNEVEN SURFACES PRIOR TO PLANTING OR MULCHING
- 12. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.
- 13. PER TOWN LANDSCAPE BOND REQUIREMENTS, NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF TWO YEARS FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. PLANTS WILL BE INSPECTED UPON COMPLETIION OF INSTALLATION ONCE A REQUEST FOR INSPECTION HAS BEEN SUBMITTED BY THE CONTRACTOR AND WILL BE INSPECTED AGAIN THE FOLLOWING FOUR GROWING SEASONS.
- 14. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF—SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
- 15. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24—HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.
- 16. THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.

MEANS OF RETAINING MOISTURE

- 17. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE PULLED DOWN SO 1/3 OF THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMOVED AFTER INSTALLATION.
- 18. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.
- AND GRASSES, OR IRRIGATION WORK.

  20. FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN

D. ALL FENCE INSTALLATION SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE PLANTING, LAWN

- 21. PLANT MATERIALS SHALL NOT BE PLANTED UNTIL THE FINISHED GRADING HAS BEEN COMPLETED.
- 21. PLANT MATERIALS SHALL NOT BE PLANTED UNTIL THE FINISHED GRADING HAS BEEN COMPLETED.
- 22. ALL PLANT INSTALLATIONS SHALL BE COMPLETED EITHER BETWEEN APRIL 1 JUNE 15 OR AUGUST 15 NOVEMBER 1, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. SEE LAWN SEEDING DATES IN SEEDING NOTES.

### LAWN WATERING SCHEDULE

- THE FOLLOWING WATERING SCHEDULE COVERS ROUGHLY 8 WEEKS TO ESTABLISH A HEALTHY STAND OF GRASS FROM SEED. THE CONTRACTOR SHALL BE OBLIGATED TO ENSURE A HEALTHY STAND OF GRASS AT THE END OF THE MAINTENANCE/BOND PERIOD. ANY BARE OR DEAD AREAS IN THE LAWN SHALL BE PREPARED, RESEEDED AND REESTABLISHED PRIOR TO THE END OF THE MAINTENANCE/BOND PERIOD AND TO THE SATISFACTION OF THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER.
- IMPORTANT ASPECTS TO ATTAINING AND SUSTAINING A HEALTHY STAND OF GRASS ARE THE INSTALLATION OF TOPSOIL, SEED BED PREPARATION, ATTAINING OPTIMAL pH FOR THE INTENDED PLANT SPECIES, FERTILIZING, MULCH COVERING, AND SUFFICIENT WATERING PER THESE NOTES AND/OR PROJECT SPECIFICATIONS.
- . SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT
- 2. AFTER THE SEEDBED IS PREPARED, SEED IS INSTALLED, AND MULCH IS APPLIED, WATER LIGHTLY TO KEEP THE TOP 2 INCHES OF SOIL CONSISTENTLY MOIST, NOT SATURATED. AT NO TIME SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE DISPLACEMENT OF SEED.
- 3. DEPENDING ON SOIL TEMPERATURES, IT MAY TAKE SEVERAL WEEKS FOR GERMINATION TO OCCUR. DIFFERENT SPECIES WITHIN THE MIX GERMINATE AT DIFFERENT TIMES AND THEREFORE CONTRACTOR SHOULD CONTINUE THE
- LIGHT WATERING, AS DESCRIBED ABOVE, UNTIL THERE IS AT LEAST 2 INCHES OF GROWTH THROUGHOUT.

  4. AT THIS POINT, WATERING FREQUENCY MAY BE REDUCED TO EVERY 3 TO 5 DAYS. WATER SHALL BE APPLIED TO WET A 6 INCH MINIMUM SOIL DEPTH TO PROMOTE HEALTHY DEEP ROOTS.
- 5. BEGIN MOWING ONCE PER WEEK AFTER THE GRASS HAS REACHED 3 INCHES HEIGHT. MOW TO A HEIGHT OF NO
- LESS THAN 2-1/2 INCHES. AFTER 2 TO 3 WEEKS OF MOWING, CONTINUE TO WATER TO A 6 INCH MINIMUM SOIL DEPTH AS NECESSARY PER WEATHER CONDITIONS, AND SOIL MOISTURE SENSORS IF APPLICABLE.

### LAWN SEED MIX

- 1. <u>LAWN SEED MIX</u>: LESCO GRASS SEED ALL PRO TRANSITION MIX (3 TURF—TYPE TALL—FESCUE GRASSES)

  NOTES:
  A) SEED RATE:
  - 1) NEW ESTABLISHMENT: SEED AT A RATE OF 6-8 LBS/1000 SQ FT
    2) RENOVATION: 20-50% EXISTING COVER: 5-7 LBS/1000 SQ FT
    50-75% EXISTING COVER: 4-6 LBS/1000 SQ FT
- 2. GENERAL SEED NOTES:
- A) FINAL SEED MIXTURES, RATES, AND SPECIES TO BE DETERMINED BASED ON PROJECT LANDSCAPE ARCHITECTREVIEW.
   B) SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO
- OCTOBER 15).

  C) ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A GLYPHOSATE—BASED HERBICIDE PER
- MANUFACTURER'S SPECIFICATIONS.

  D) IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL
- SEEDER WHERE APPLICABLE.

  E) THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW FOR PROPER GERMINATION.

### PLANTING SOIL SPECIFICATIONS

- PLANTING SOIL, ALTERNATELY MAY BE REFERRED TO AS TOPSOIL, SHOULD BE FRIABLE, FERTILE, WELL DRAINED, FREE OF DEBRIS, TOXINS, TRASH AND STONES OVER 1/2" DIA., IT SHOULD HAVE A HIGH ORGANIC CONTENT SUITABLE TO SUSTAIN HEALTHY PLANT GROWTH AND SHOULD LOOK AESTHETICALLY PLEASING HAVING NO NOXIOUS ODORS.
   PLANTING SOIL:
- REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. IF ON—SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING, THE CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON—SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES BLANS AND SPECIFICATIONS.
- INDICATED IN NOTES PLANS AND SPECIFICATIONS.

  SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL—DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR CONTAMINATED SITES.
- CONTRACTOR SHALL TEST SOILS AND FURNISH SAMPLES UPON REQUEST. PACKAGED MATERIALS SHALL BE UNOPENED BAGS OR CONTAINERS, EACH BEARING A NAME, GUARANTEE, AND TRADEMARK OF THE PRODUCER, MATERIAL COMPOSITION, MANUFACTURER'S CERTIFIED ANALYSIS, AND THE WEIGHT OF THE MATERIALS. SOIL OR AMENDMENT MATERIALS SHALL BE STORED ON SITE TEMPORARILY IN STOCKPILES PRIOR TO PLACEMENT AND SHALL BE PROTECTED FROM INTRUSION OF CONTAMINANTS AND EROSION. AFTER MIXING, SOIL MATERIALS SHALL BE
- ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.
- A. THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT FOR APPROVAL BEFORE INSTALLATION:

  a. PARTICLE SIZE ANALYSIS LOAMY SAND: 60—75% SAND, 25—40% SILT, AND 5—15% CLAY.

  b. FERTILITY ANALYSIS: pH (5.5—6.5), SOLUBLE SALTS (LESS THAN 2 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM, CALCIUM AND MAGNESIUM

  c. ORGANIC MATTER CONTENT: 2.5—5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS
- d. TOXIC SUBSTANCE ANALYSIS
   e. MATERIAL DRAINAGE RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED
   f. NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE

COVERED WITH A TARPAULIN UNTIL TIME OF ACTUAL USE.

3. BIORETENTION SOIL MIX

a. BIORETENTION SOIL MIX IS TO BE USED IN ALL DETENTION BASINS AND RAIN GARDENS.
b. MIX TO CONSIST OF 60% COARSE SAND, 40% SUBMITTED TOPSOIL/HORTICULTURAL SOIL MIX
c. TOPSOIL/HORTICULTURAL SOIL MIX: REFER TO SPECIFICATIONS LISTED IN SECTION ABOVE

10-30

2-10

2-5

- d. COARSE SAND

  1) PARTICLE SIZE ANALYSIS
  SIEVE PERCENT PASSING
  3/8 INCH (9.5 MM) 100
  NO 4 (4.75 MM) 95-100
  NO 8 (2.36 MM) 80-100
  NO 16 (1.18 MM) 50-85
  NO 30 (.60 MM) 25-60
- 2) CHEMICAL ANALYSIS
  PH: LOWER THAN 7.0

TOXIC SUBSTANCE ANALYSIS

e. FINAL BIORETENTION MIX

NO 50 (.30 MM)

NO 100 (.15 MM)

NO 200 (0.75 MM

- 1) PARTICLE SIZE ANALYSIS a) SAND — 80—85%
- b) SILT 10-15% c) CLAY - 2-5%
- NOT MORE THAN 1% OF MATERIAL TO BE RETAINED BY A #4 SIEVE
- 2) CHEMICAL ANALYSIS

8. SOIL CONDITIONING

a) PH - 5.5-6.5 b) SOLUBLE SALTS: LESS THAN 2 MMHO/CM

C. AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS:

- 3) CONTRACTOR TO SUBMIT TOXIC SUBSTANCE ANALYSIS AND MATERIAL DRAINAGE RATE IN ADDITION TO INFORMATION LISTED ABOVE. DRAINAGE RATE OF MATERIAL TO EXCEED 1 INCH/HOUR
- 4. SOIL AMENDMENT FOR PLANT MATERIAL:

  IF SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR ACCEPTABLE, WEED FREE, ORGANIC MATTER. ORGANIC AMENDMENT SHALL BE WELL COMPOSTED, PH RANGE OF 6-8; MOISTURE CONTENT 35-55% BY WEIGHT 100% PASSING THROUGH 1" SIEVE; SOLUBLE SALT CONTENT LESS THAN 0.5 MM HOS/CM;
- MEETING ALL APPLICABLE ENVIRONMENTAL CRITERIA FOR CLEAN FILL.

  A. ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MOLD WITH 60-90% ORGANIC CONTENT BY WEIGHT. SHREDDED LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, STONES OVER 1/2" WOOD.
- LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, STONES OVER 1/2", WOOD CHIPS OVER 1".
- B. SOIL IN BEDS AND PLANTING ISLANDS OTHER THAN BACKFILL MATERIAL AND TOPSOIL, SHOULD BE FRIABLE, WELL DRAINED, AND FREE OF DEBRIS, INCLUDING STONES AND TRASH.
- GROUND LIMESTONE (WITH A MIN. OF 88% OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING RESULTS OF SOIL ANALYSIS.
   BRING PH LEVELS TO 5.5 MIN. TO 6.5 FOR NON—ERICACEOUS PLANTS
   BRING PH LEVELS TO 4.5 MIN. TO 5.5 FOR ERICACEOUS PLANTS
- b. TERRA-SORB BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN PLANTER BACKFILL MIXTURE WITH TREES AND SHRUBS.
   c. MYCOR-ROOT SAVER BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN BACKFILL MIXTURE WITH TREES.
- 5. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2%) OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS AND NOTES.
- 6. <u>Clean Soil fill in Landscape areas;</u>
  Landscape fill material, below planting soils, shall have the physical properties of a sandy loam with an organic content of less than 2% and a ph between 5 7.
- . <u>SOIL PLACEMENT:</u>
  A. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM DEPTH PLANTING SOIL LAYER IN LAWN AREAS, TWELVE INCHES (12") MINIMUM DEPTH PLANTING SOIL LAYER IN GROUNDCOVER AND PERENNIAL AREAS, EIGHTEEN INCHES (18") MINIMUM DEPTH PLANTING SOIL LAYER IN SHRUB AREAS, AND THIRTY—SIX INCHES (36") MINIMU
- INCHES (18") MINIMUM DEPTH PLANTING SOIL LAYER IN SHRUB AREAS, AND THIRTY—SIX INCHES (36") MINIMUM DEPTH PLANTING SOIL LAYER IN TREE PLANTING AREAS.

  B. SCARIFY AND/OR TILL COMPACTED SUBSOILS TO A MINIMUM DEPTH OF 6 INCHES. THOROUGHLY MIX A 6 INCH
- DEPTH LAYER OF PLANTING SOIL INTO THE SUBSOIL PRIOR TO PLACING PLANTING SOIL AT THE DEPTHS INDICATED ABOVE. PLANTING SOIL SHALL BE PLACED IN 12–18" LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. REPEAT UNTIL DEPTHS AND FINISH GRADES HAVE BEEN ACHIEVED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.
- C. PLANTING SOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON—SITE PLANTING SOIL UTILIZED IN ALL PLANTING AREAS.
- USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LIMESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 88% CALCIUM AND MAGNESIUM CARBONATES AND SHALL HAVE TOTAL 100% PASSING THE 10 MESH SIEVE, MINIMUM 90% PASSING 20 MESH SIEVE, AND MINIMUM 60% PASSING 100 MESH SIEVE.

A. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER pH

- B. ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- C. <u>SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS)</u>:

  a. THOROUGHLY TILL ORGANIC MATTER (LEAF COMPOST) INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.0. PEAT MOSS MAY NOT BE USED AS ORGANIC MATTER AMENDMENT.
- b. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.
- c. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

### **MEADOW SEED NOTES**

- 1. <u>MEADOW SEED MIX A</u> ERNST SEED MIX ERNMX-123 "NATIVE UPLAND WILDLIFE FORAGE & COVER MEADOW MIX"
- 34.9% ANDROPOGON GERARDII, 'NIAGARA'
  27.0% PANICUM VIRGATUM, 'CAVE-IN-ROCK'
  21.0% ELYMUS VIRGINICUS, 'MADISON'
- 9.0% SORGHASTRUM NUTANS, 'TOMAHAWK'
  3.0% RUDBECKIA HIRTA, PA ECOTYPE
  2.0% CHAMAECRISTA FASCICULATA, PA ECOTYPE
  1.5% HELIOPSIS HELIANTHOIDES, PA ECOTYPE
  1.0% COREOPSIS TINCTORIA
  0.4% DESMODIUM CANADENSE, PA ECOTYPE
  0.1% ASCLEPIAS SYRIACA

0.1% MONARDA FISTULOSA, PA ECOTYPE

PANICUM RIGIDULUM

2.00% SOLIDAGO BICOLOR

2.00% VERNONIA NOVEBORACENSIS

1.00% PENSTEMON LAEVIGATUS

VIRGINIA WILDRYE, 'MADISON'
INDIANGRASS, 'TOMAHAWK'
BLACKEYED SUSAN, PA ECOTYPE
PARTRIDGE PEA, PA ECOTYPE
OXEYE SUNFLOWER, PA ECOTYPE
PLAINS COREOPSIS
SHOWY TICKTREFOIL, PA ECOTYPE
COMMON MILKWEED
WILD BERGAMOT, PA ECOTYPE

BIG BLUESTEM, 'NIAGARA'

SWITCHGRASS, 'CAVE-IN-ROCK'

- NOTES:

  SEED AT A RATE OF 20 LB/ACRE OF 100% PURE LIVE SEED
- 2. MEADOW SEED MIX B ERNST SEED MIX ERNMX-183 "NATIVE DETENTION AREA MIX"

  32% PANICUM CLANDESTINUM. 'TIOGA' DEERTONGUE, 'TIOGA'
- 20% CAREX VULPINOIDEA FOX SEDGE
  20% ELYMUS VIRGINICUS VIRGINIA WILDRYE
  20% PANICUM VIRGATUM, 'SHAWNEE' SWITCHGRASS, 'SHAWNEE'
  4% AGROSTIS PERENNANS, ALBANY PINE BUSH
  2% JUNCUS TENUIS PATH RUSH
  1% JUNCUS EFFUSUS SOFT RUSH
- NOTES:
  1. SEED AT A RATE OF 20 LBS/ACRE OF 100% PURE LIVE SEED.
  2. FOR SPRING SEEDING, APPLY A NURSE CROP OF OATS AT A RATE OF 30 LBS/ACRE.
  3. FOR FALL SEEDING, APPLY A NURSE CROP OF WINTER RYE AT A RATE OF 30 LBS/ACRE.

REDTOP PANICGRASS

- . MEADOW SEED MIX C ERNMX-181 "NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS"
- 31% SORGHASTRUM NUTANS INDIANGRASS 20% LOLIUM MULTIFLORUM ANNUAL RYEGRASS 14% ANDROPOGON GERARDII, 'NIAGARA' BIG BLUESTEM 'NIAGARA' 10% ELYMUS VIRGINICUS VIRGINIA WILDRYE 7% ELUYMUS CANADENSIS CANADA WILDRYE 4% AGROSTIS PERENNANS AUTUMN BENTGRASS 4% PANICUM VIRGATUM 'CARTHAGE' SWITCHGRASS, 'CARTHAGE' 3% PANICUM CLANDESTINUM, TIOGA DEERTONGUE, TIOGA 1.5% FCHINACEA PURPUREA PURPLE CONEFLOWER 1.3% CHAMAECRISTA FASCICULATA PARTRIDGE PEA 1.2% HELIOPSIS HELIANTHOIDES OXEYE SUNFLOWER COREOPSIS LANCEOLATA LANCELEAF COREOPSIS
- 1% COREOPSIS LANCEOLATA
  1% RUDBECKIA HIRTA
  1.3% MONARDA FISTULOSA
  1.2% ASCLEPIAS SYRIACA
  1.2% SOLIDAGO RUGOSA
  1.1% ASTER LATERIFLORUS
  1.1% ASTER PILOSUS

  LANCELEAF COREOPSIS
  BLACKEYED SUSAN
  WILD BERGAMOT
  COMMON MILKWEED
  WRINKLELEAF GOLDENROD
  CALICO ASTER
  HEATH ASTER
- NOTES:
  SEED AT A RATE OF 60 LBS/ACRE OF 100% PURE LIVE SEED.
- 4. MEADOW SEED MIX D ERNST SEED MIX ERNMX-140 "PARTIALLY SHADED AREA MIX"
- 0.00% ELYMUS HYSTRIX BOTTLEBRUSH GRASS 0.00% FLYMUS VIRGINICUS VIRGINIA WILD RYE 10.00% SCHIZACHYRIUM SCOPARIUM LITTLE BLUESTEM 6.00% PENSTEMON DIGITALIS TALL WHITE BEARD TONGUE 6.00% ZIZIA AUREA OLDEN ALEXANDER 5.00% CHAMAECRISTA FASCICULATA PARTRIDGE PEA 5.00% PANICUM CLANDESTINUM DEER TONGUE, 'TIOGA' 5.00% RUDBECKIA HIRTA BLACK EYED SUSAN 3.00% ASTER PRENANTHOIDES ZIGZAG ASTER 2.00% AGROSTIS PERENNANS AUTUMN BENTGRASS 2.00% GEUM CANADENSE WHITE AVENS 2 00% HELIOPSIS HELIANTHOIDES OX EYE SUNFLOWER 2.00% MONARDA FISTULOSA WILD BERGAMOT 2.00% MONARDA MEDIA PURPLE BERGAMO1
- NOTES:

  1. SEED AT A RATE OF 20 LBS./ACRE OF 100% PURE LIVE SEED.

  2. FOR SPRING SEEDING, APPLY A NURSE CROP OF OATS AT A RATE OF 30 LBS./ ACRE.

  3. FOR FALL SEEDING, APPLY A NURSE CROP OF WINTER RYE AT A RATE OF 30 LBS./ ACRE.

  GENERAL SEEDING NOTES:

WHITE (SILVER ROD) GOLDENROD

APPALACHIAN BEARD TONGUE

NEW YÖRK IRONWEÉD

- SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO OCTOBER 15).
   ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A NON-SELECTIVE HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
   IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL WHERE APPLICABLE.
- 4. THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW PROPER GERMINATION.
   5. NO DRILL SEEDING IS TO TAKE PLACE UNDER EXISTING TREES TO REMAIN.
   WEED CONTROL / MAINTENANCE
- DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDING IF WEED HEIGHT EXCEEDS MEADOW MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NOT MOW CLOSE, AS SOME OF THE MEADOW MIX MAY BE DAMAGED.
   AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL BE MOWED ONLY ONCE ANNUALLY. ANNUAL MAINTENANCE MOWING SHALL BE DONE IN LATE WINTER DURING THE MONTH OF MARCH. IF SEED MIX IS NOT WELL ESTABLISHED AFTER THE FIRST GROWING SEASON, OVERSEEDING MUST BE COMPLETED IN THE NEXT SEEDING WINDOW. OVERSEEDING IS TO BE COMPLETED IN ALL AREAS THAT ARE NOT ESTABLISHED.
   MOW IN DETENTION BASIN AND WETLAND TRANSITION AREAS DURING DRIER SITE CONDITIONS WHEN SOIL DISTURBANCE WILL NOT OCCUR. MAINTENANCE FOR DETENTION BASIN AND WETLAND TRANSITION AREAS SHALL OCCUR DURING LATE SUMMER (JULY 15 AUGUST 15) WHEN THE WATER TABLE IS USUALLY AT ITS LOWEST POINT OF THE YEAR. DO NOT MOW IN DETENTION BASIN, WETLAND OR WETLAND TRANSITION AREAS AFTER ESTABLISHMENT OF

### LANDSCAPE MAINTENANCE NOTES

. MAINTENANCE OPERATIONS BEFORE APPROVAL:

PLANTS IN A HEALTHY CONDITION.

- A. PLANT CARE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS SATISFACTORILY INSTALLED AND SHALL CONTINUE THROUGHOUT THE LIFE OF THE CONTRACT UNTIL FINAL
- ACCEPTANCE OF THE PROJECT.

  B. CARE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR OTHER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS, MAINTAINING STAKES AND GUYS AS ORIGINALLY INSTALLED, WATERING WHEN NEEDED OR DIRECTED, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE
- C. CONTRACTOR SHALL REMOVE AND REPLACE ALL DEAD, DEFECTIVE AND/OR REJECTED PLANTS AS REQUIRED BEFORE FINAL ACCEPTANCE.
  2. MAINTENANCE DURING CONSTRUCTION:
- A. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING. PLANTS SHALL BE WATERED, MULCHED, WEEDED, PRUNED, SPRAYED, FERTILIZED, CULTIVATED, AND OTHERWISE MAINTAINED AND PROTECTED UNTIL PROVISIONAL ACCEPTANCE. SETTLED PLANTS SHALL BE RESET TO PROPER GRADE AND POSITION, PLANTING SAUCER RESTORED AND DEAD MATERIAL REMOVED. STAKES AND WIRES SHALL BE TIGHTENED AND REPAIRED. DEFECTIVE WORK SHALL BE CORRECTED AS SOON AS POSSIBLE AFTER IT BECOMES APPARENT AND WEATHER AND SEASON PERMIT.
- B. IF A SUBSTANTIAL NUMBER OF PLANTS ARE SICKLY OR DEAD AT THE TIME OF INSPECTION, ACCEPTANCE SHALL NOT BE GRANTED AND THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF ALL PLANTS SHALL BE EXTENDED FROM THE TIME REPLACEMENTS ARE MADE OR EXISTING PLANTS ARE DEEMED ACCEPTABLE BY THE
- LANDSCAPE ARCHITECT.

  C. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE SPECIFIED ON THE PLANT LIST OR THAT WHICH WAS TO REMAIN OR BE RELOCATED. THEY SHALL BE FURNISHED AND PLANTED AS SPECIFIED. THE COST SHALL BE BORNE BY THE CONTRACTOR. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, VANDALISM, PHYSICAL DAMAGE BY ANIMALS VEHICLES, ETC., AND LOSSES DUE TO CURTAILMENT OF WATER BY LOCAL AUTHORITIES
- SHALL BE APPROVED AND PAID FOR BY THE OWNER.

  D. PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER INSPECTION AND PROVISIONAL ACCEPTANCE.
- E. AT THE END OF THE ESTABLISHMENT PERIOD, INSPECTION SHALL BE MADE AGAIN. ANY PLANT REQUIRED UNDER THIS CONTRACT THAT IS DEAD OR UNSATISFACTORY TO THE LANDSCAPE ARCHITECT OR OWNER SHALL BE REMOVED FROM THE SITE AND REPLACED DURING THE NORMAL PLANTING SEASON.
   JAWN MAINTENANCE:
- A. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH PORTION OF LAWN IS PLANTED AND CONTINUE FOR 8 WEEKS AFTER ALL LAWN PLANTING IS COMPLETED.
- B. WATER TO KEEP SURFACE SOIL MOIST, REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL, LIMING, FERTILIZING AND RE-SEEDING; MOW TO 2 1/2 3 INCHES AFTER GRASS REACHES 3 1/2 INCHES IN HEIGHT, AND MOW FREQUENTLY ENOUGH TO KEEP GRASS FROM EXCEEDING 3 1/2 INCHES. WEED BY LOCAL SPOT APPLICATION OF SELECTIVE HERBICIDE ONLY AFTER GRASS IS WELL-ESTABLISHED.

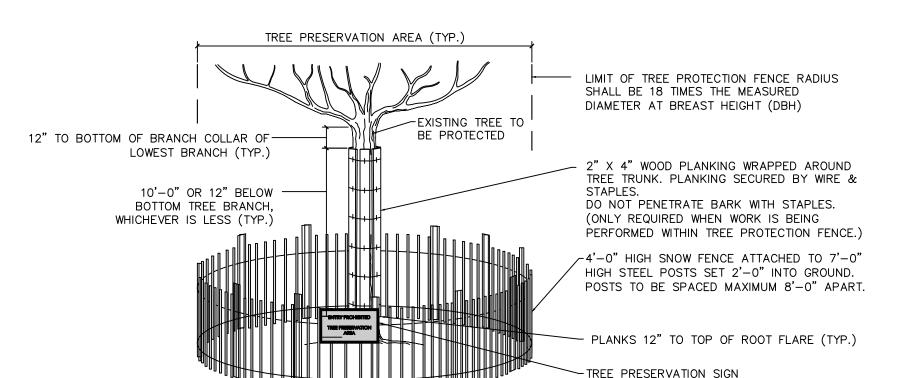
## TREE PROTECTION NOTES:

- ALL EXISTING TREES WITHIN THE LIMITS OF TREE PROTECTION FENCING. SHALL BE PROTECTED THOUGHOUT THE DURATION OF WORK. TREE PROTECTION FENCING SHALL BE INSTALLED AT THE DRIP—LINE OF THE PROTECTED TREE UNLESS CONDITIONS WARRANT THE FENCE TO BE LOCATED WITHIN THE LIMIT OF BRANCHING. THE PROJECT LANDSCAPE ARCHITECT TO APPROVE THE LOCATION OF ALL FENCING PRIOR TO EXCAVATION.
   TREE PROTECTION PLANKING SHALL BE INSTALLED AROUND ALL EXISTING TREES AS NOTED ON THIS DRAWING. REFER TO DETAIL ON THIS SHEET.
- 3. TREE PROTECTION FENCING SHALL BE MAINTAINED TO PROTECT TREES AT ALL TIMES. ANY DAMAGED FENCING SHALL BE IMMEDIATELY REPLACED WHEN DAMAGED.
- 4. IF TREE PROTECTION FENCING NEEDS TO BE MOVED OR BREACHED DUE TO TEMPORARY CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION ZONE, THE FENCING WILL BE RESET TO ITS ORIGINAL LOCATION IMMEDIATELY AFTER CONSTRUCTION WITHIN THE TREE PROTECTION ZONE IS COMPLETE.
- MASS AGAINST DAMAGE DURING EXCAVATION. ANY TREE ROOTS THAT ARE DISTURBED, BROKEN, OR CUT SHALL BE PRUNED BACK WITH CLEAN SHARP TOOLS.

  6. ALL EXPOSED TREE ROOTS SHALL BE THOROUGHLY IRRIGATED ON A DAILY BASIS AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.

  7. ALL WORK TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF EITHER THE OWNER'S REPRESENTATIVE OR THE PROJECT LANDSCAPE

5. DEMOLITION WORK ADJACENT TO PROTECTED TREES SHALL BE PERFORMED BY NON-MECHANICAL METHODS. CONTRACTOR TO PROTECT ROOT



# 1 TREE PROTECTION FENCE AND PLANKING

GENERAL NOTE:

DUE TO GENERAL CONSTRUCTION ACTIVITIES AND ADJACENT SITE COMPACTION REQUIREMENTS, SUBGRADE SOILS WITHIN PROPOSED PLANTING AREAS TEND TO BECOME HIGHLY COMPACTED. IN ORDER TO CREATE A HEALTHY GROWTH MEDIUM TO ALLOW PROPOSED PLANTINGS TO ESTABLISH A VIGOROUS ROOT MASS, THIS SUBGRADE SOIL MUST UNDERGO A RESTORATION PROCESS. IN ADDITION, IMPORTED OR AMENDED EXISTING SOILS SHALL BE MIXED WITH SUBGRADE SOILS WHERE THEY MEET IN ORDER TO CREATE A TRANSITIONAL GRADIENT TO ALLOW FOR PROPER DRAINAGE.

6" IMPORTED PLANTING SOIL (OR AMENDED EXISTING PLANTING SOIL) SHALL BE ROTO—TILLED INTO SUBGRADE TO A DEPTH OF 12".

SUBGRADE WITHIN 2'-6" OF FINISH GRADE IN

FOR PLANTING SOIL UPON APPROVAL BY THE

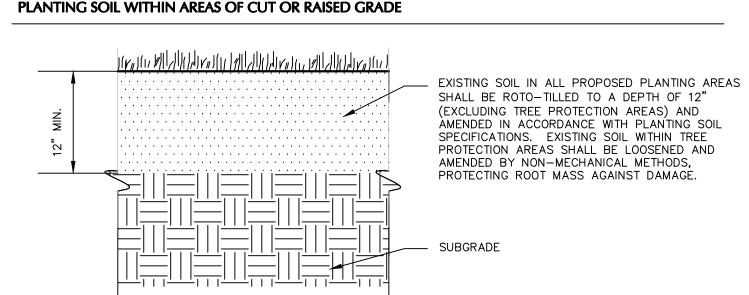
FOR REQUIRED SUBMITTALS.

PROJECT LANDSCAPE ARCHITECT. CONTRACTOR

SHALL REFER TO PLANTING SOIL SPECIFICATIONS

PLANTING AREAS SHALL CONSIST OF FREE DRAINING

\*EXISTING SOIL STRIPPED FROM SITE CAN BE USED



# PLANTING SOIL WITHIN AREAS OF UNCHANGED GRADE

- NOTES:

  1. CONTRACTOR IS RESPONSIBLE TO SEND SAMPLES OF EXISTING SOILS INTENDED FOR USE IN PLANTING AREAS (1 PER 500 CY.) TO TESTING LABORATORY OR UNIVERSITY COOPERATIVE EXTENSION FOR TESTING. ALL TESTING COSTS ARE AT THE
- CONTRACTOR'S EXPENSE.

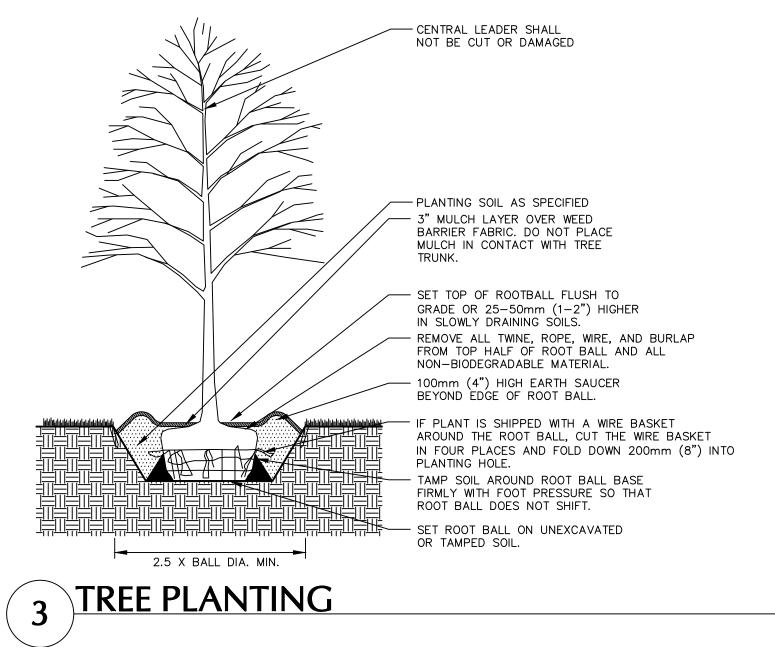
  2. RECYCLED CRUSHED CONCRETE AND ASPHALT MILLINGS SHALL NOT BE PLACED WITHIN 2'-6" OF FINISH GRADE IN PROPOSED LANDSCAPE AREAS.
- 3. IMPORTED FILL SHALL CONTAIN NO CONTAMINATION IN EXCEEDENCE OF THE APPLICABLE STATE ENVIRONMENTAL STANDARDS AND MEET THE ENVIRONMENTAL REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF COMPLIANCE PRIOR TO DELIVERY OF ANY FILL TO THE SITE.

4. CONTRACTOR TO LIGHTLY COMPACT ALL PLACED PLANTING SOILS AND RAISE GRADES ACCORDINGLY TO ALLOW FOR

5. NO STONES, WOOD CHIPS, OR DEBRIS LARGER THAN 1/2" SHALL BE ACCEPTABLE WITHIN PLANTING AREAS.

FUTURE SETTLEMENT OF PLANTING SOILS (TYP.)

TING SOIL

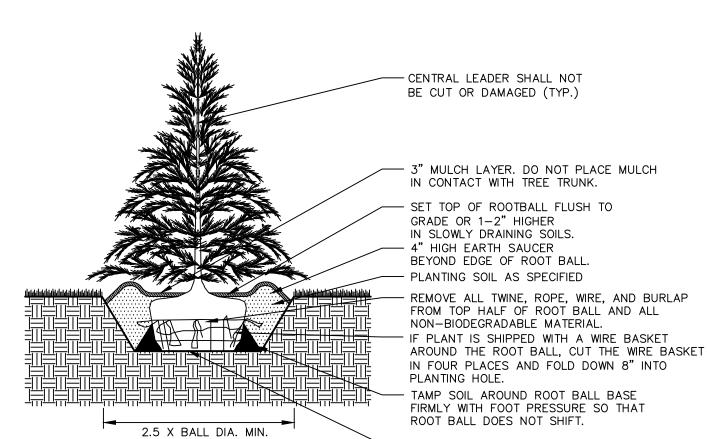


LARGE SHRUB (B&B) SMALL SHRUB (CONTAINER) REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF ROOT BALL AND ALL NON-BIODEGRADABLE MATERIAL - IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 8" INTO PLANTING HOLE. 3" MULCH LAYER. KEEP MULCH AWAY FROM SHRUB BASE AND TOP OF ROOTBALL (TYP.). -4" HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL TO DIRECT WATER INTO ROOTBALL (TYP.). - REMOVE PLASTIC CONTAINER -TAMP SOIL AROUND ROOT BALL BASE 3 TIMES ROOTBALL DIA. FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT (TYP.). — SET ROOT BALL ON UNEXCAVATED 3 TIMES ROOTBALL DIA OR TAMPED SOIL. NOTES: 1. ALL SHRUBS TO BE SET PLUMB 2. REFER TO LANDSCAPE PLAN FOR SPACING OF INDIVIDUAL PLANTS.

SHRUB AND ORNAMENTAL GRASS PLANTING

NT

3. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM



5 EVERGREEN TREE PLANTING

1

SET ROOT BALL ON UNEXCAVATED

OR TAMPED SOIL.

TOWN OF NEWBURGH APPROVAL BOX TOWN PROJECT # 2022-29

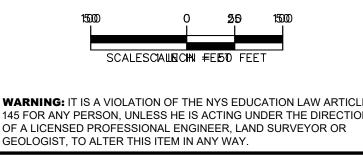
PLANNING BOARD CHAIRPERSON JOHN P. EWASUTYN

27.11.2

10/12/2023 PLANNING BOARD SUBMISSION 2

8/28/2023 PLANNING BOARD SUBMISSION 1

Date Description No.





Langan Engineering, Environmental, Surveying,
Landscape Architecture, and Geology, D.P.C.

One North Broadway, Suite 910
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T: 914.323.7400 F: 914.323.7401 www.langan.co

MATRIX I-84
DISTRIBUTION CENTER
SECTION No. 86, BLOCK No. 1, LOT No. 97
SECTION No. 89, BLOCK No. 1, LOT No. 66 and 69.11
TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK

PLANTING NOTES

SENTER
OT No. 97
No. 66 and 69.11
H

190063302

Date

JULY 10, 2023

Drawn By

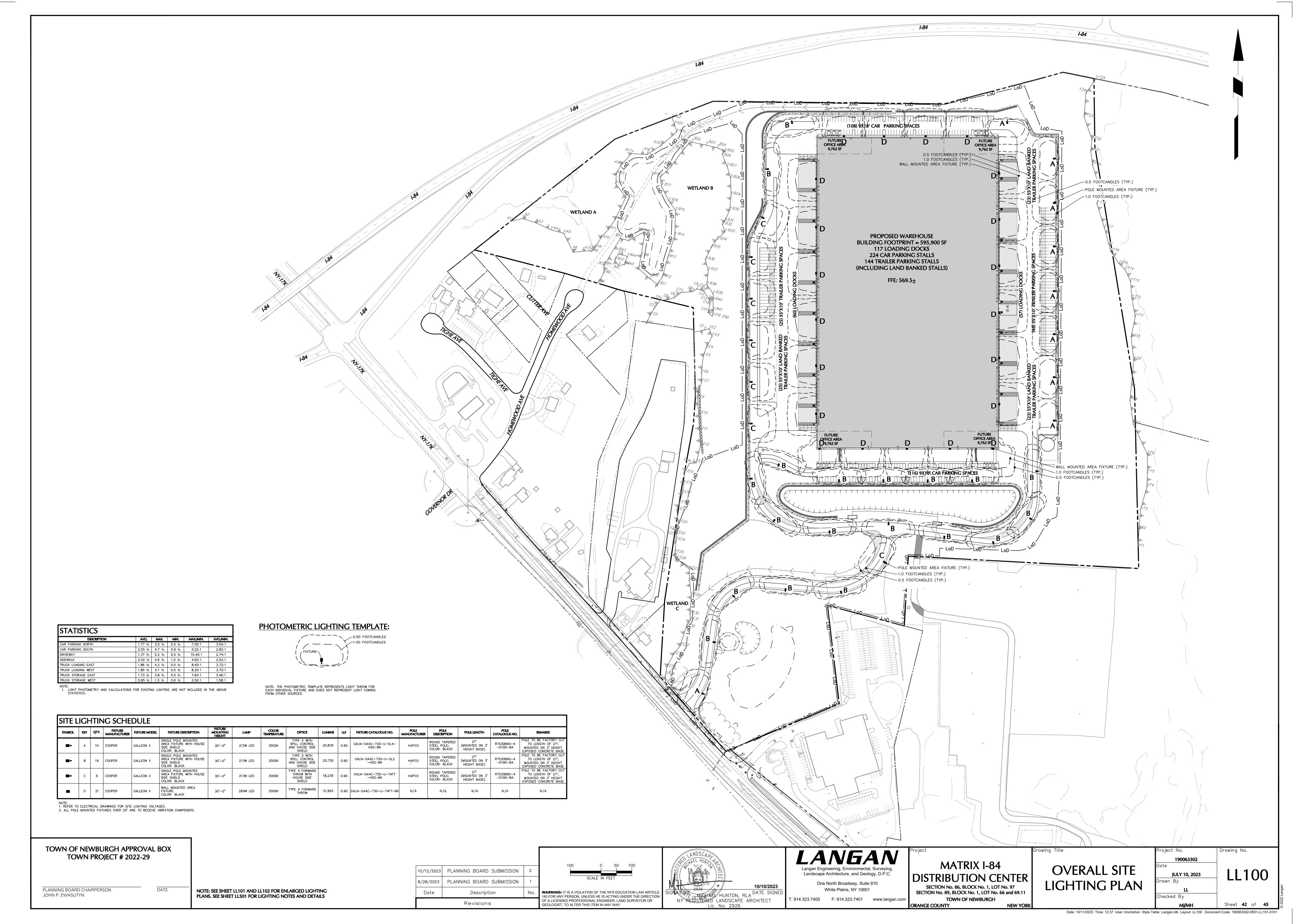
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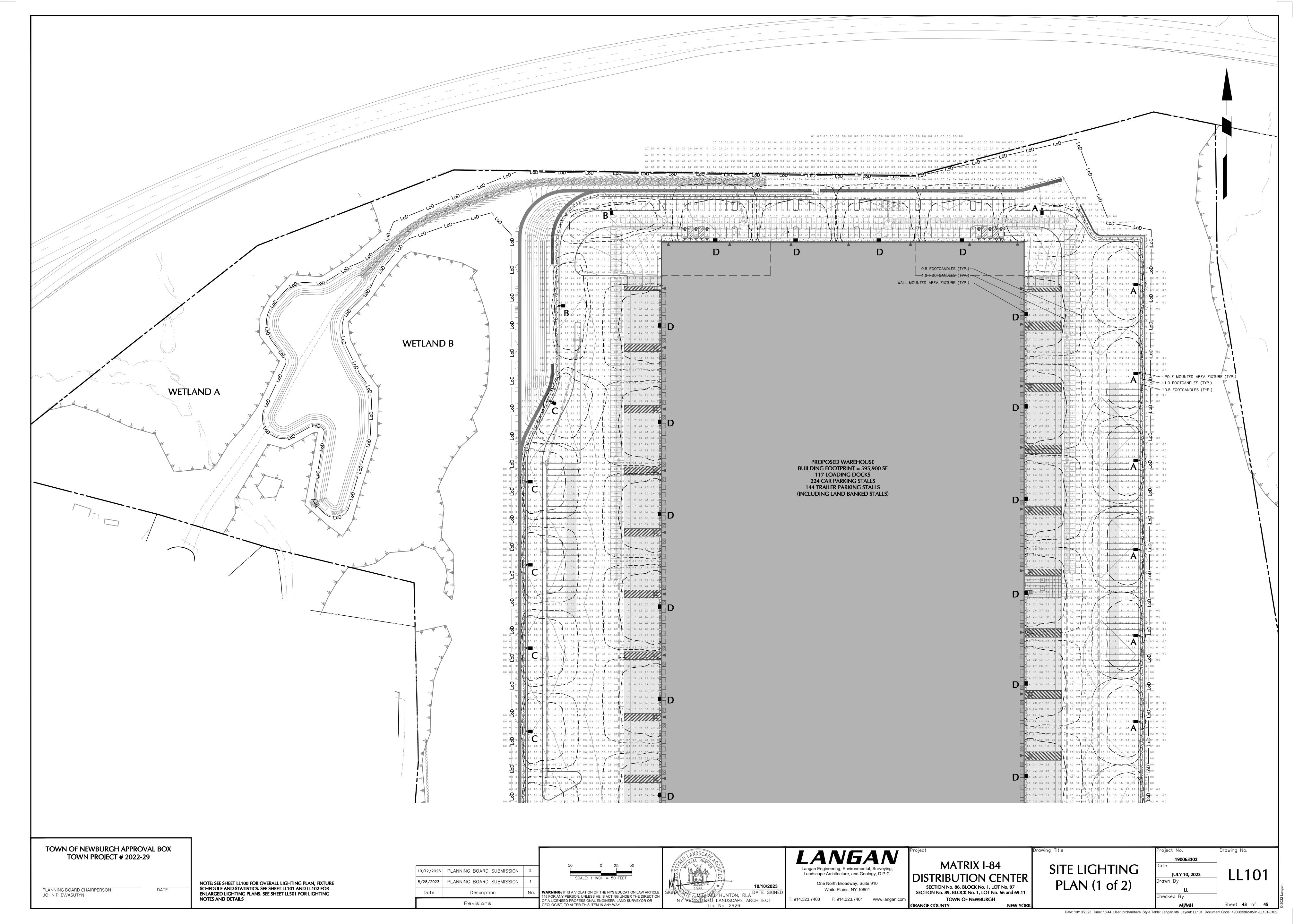
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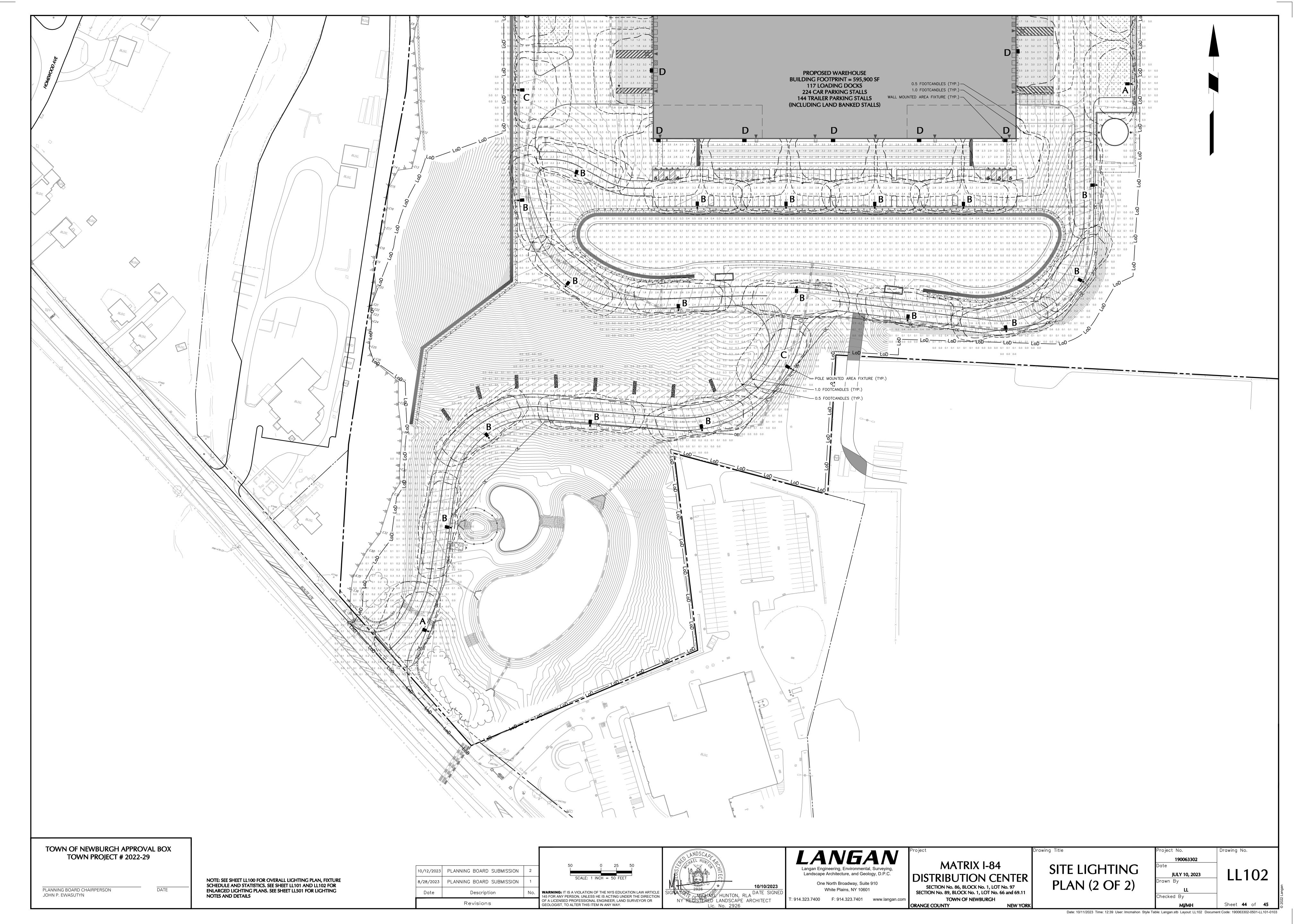
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Drawing No.







### SITE LIGHTING NOTES:

### GENERAL

1. POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/ DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS.NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE

2. LIGHT LEVEL POINT SPACING IS 10 FT. LEFT TO RIGHT AND 10 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.

#### COMPLIANO

3. ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.

4. LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.

### COORDINATION

5. CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.

- 6. REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- 7. CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- 8. INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- 9. CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

#### **POLES AND FOOTING**

- PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST—IN—PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.
   CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY
- 12. POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.

  13. ALL POLES HIGHER THAN 25 FT. SHALL BE EQUIPPED WITH FACTORY INSTALLED VIBRATION DAMPENERS.

#### **WALL MOUNTED FIXTU**

UNSATISFACTORY CONDITIONS.

- 14. CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.
- 15. INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

### ADJUSTMENT AND INSPECTION

- 16. CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- 17. CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- 18. CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

### REQUIREMENTS FOR ALTERNATES

19. ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:

A. ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER

- AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR

  B. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOFOOTCANDLE, THE SYSTEM'S PERFORMANCE.

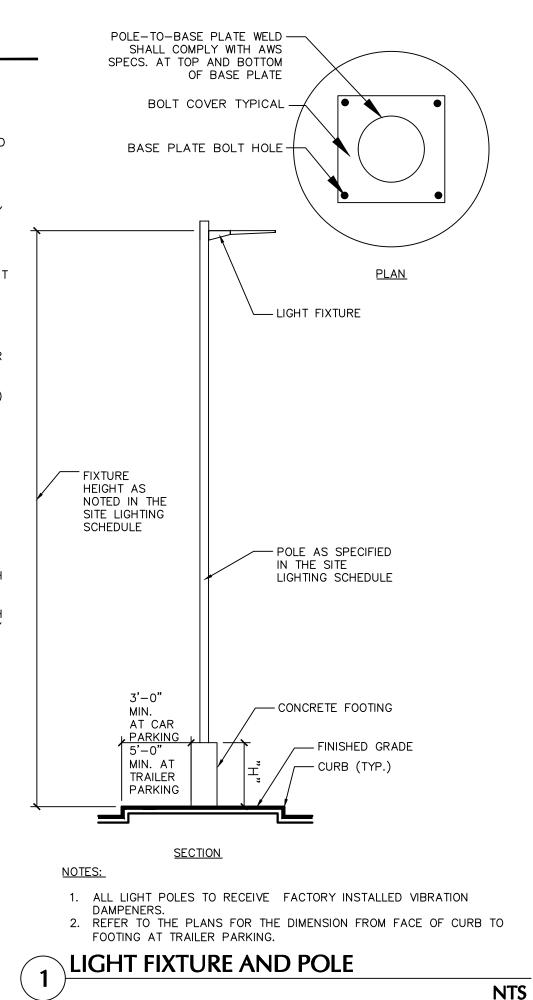
  C. A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS; IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY
- RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.

  D. POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN
- ACCORDANCE WITH THE CONTRACT DOCUMENTS.

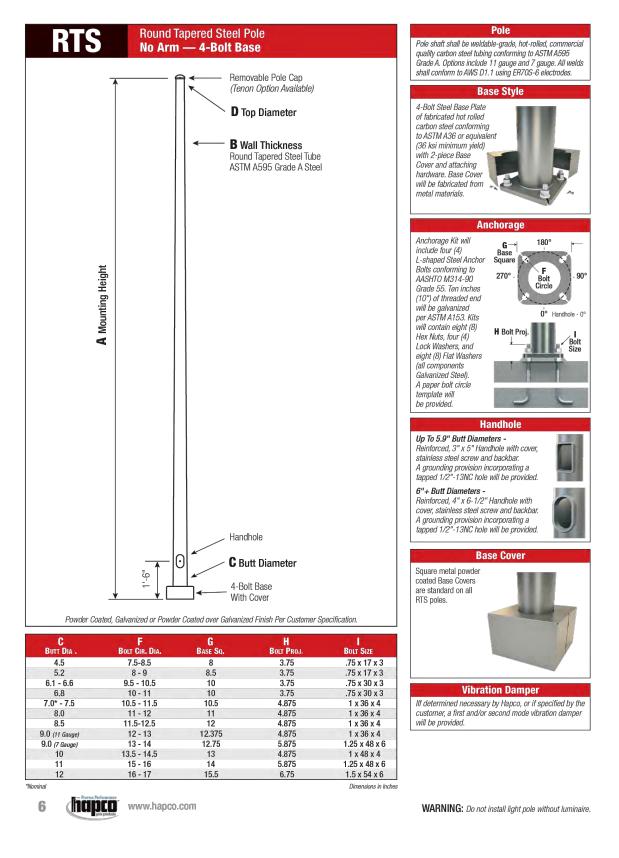
  E. THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.

  F. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE

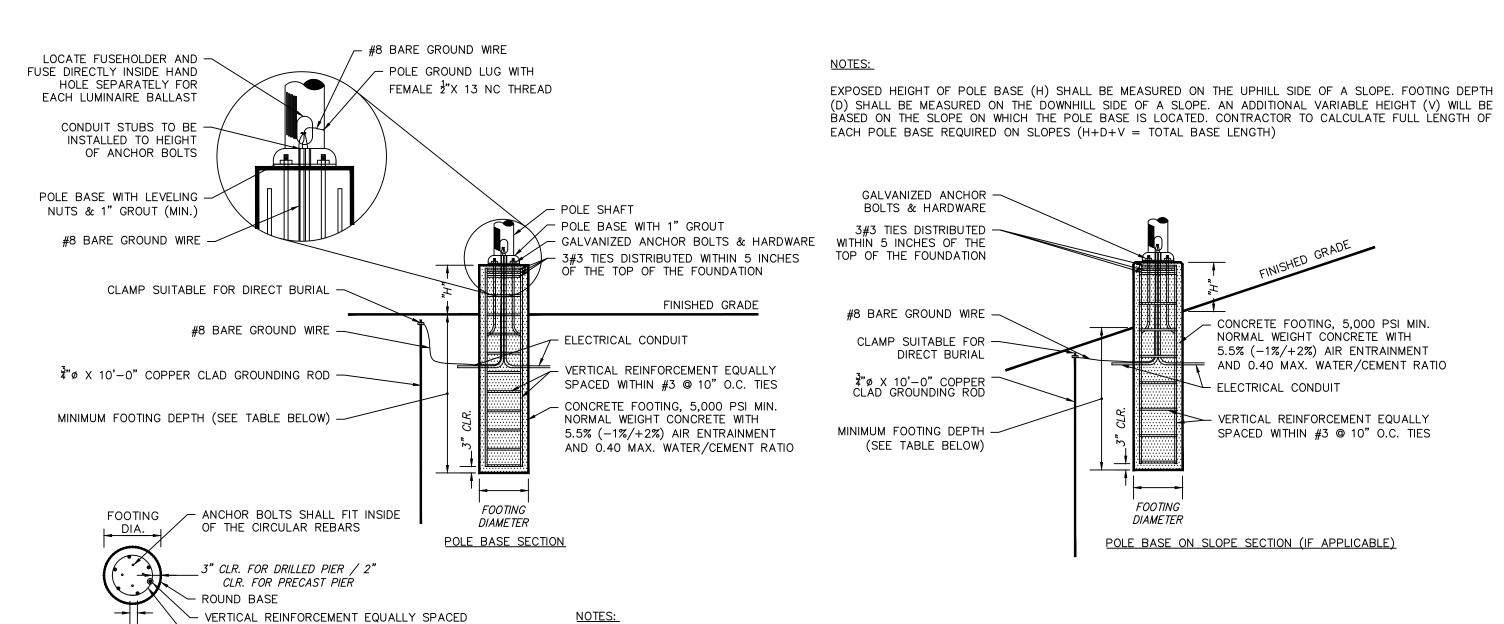
FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.











MOUNTING	FOOTING	FOOTING	VERTICAL	'H'
HEIGHT	DEPTH	DIAMETER	REINFORCEMENT	
30'-0"	8'-0"	2'-0"	6 #5 BARS	3'-0" EXPOSED CONCRETE BASE

<u>PLAN</u>

6" LAP ← #3 TIES AT 10" O.C. WITH 6" LAP

SHAFT CAP, ARMS, BASE FLANGE, ANCHOR BOLTS, LEVELING NUTS, CONNECTION HARDWARE, BOLT COVERS, HANDHOLE COVER, AND BOLT CIRCLE TEMPLATE SHALL BE FURNISHED BY POLE MANUFACTURER.
 EACH STANDARD TO BE PROTECTED AGAINST LIGHTNING WITH AN INTERCONNECTED GROUND ROD. THIS ROD SHALL BE BONDED PER SECTION NUMBER 250-86, N.E.C.
 CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENT OF ACI 318. CAST-IN-PLACE SHALL HAVE UNCONFINED COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI AT 28-DAYS. DEFORMED REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60.

4. CONTRACTOR TO ENSURE CONCRETE POLE BASES ARE POURED / PLACED ABSOLUTELY VERTICAL & LEVEL.
5. IF POLE BASE IS CAST—IN—PLACE, POLE BASE SHALL BE ONE CONTINUOUS POUR. EXPOSED PORTION OF BASE SHALL BE HAND—RUBBED SMOOTH.
6. CONTRACTOR TO COMPACT SUBGRADE AROUND POLE BASE PER EARTHWORK SPECIFICATIONS / GEOTECH REPORT.

CONTRACTOR TO COMPACT SUBGRADE AROUND POLE BASE PER EARTHWORK SPECIFICATIONS / GEOTECH REPORT.
 THE INFORMATION ILLUSTRATED IN THE LIGHT POLE FOUNDATION DETAIL HAS BEEN PROVIDED FOR GENERAL REFERENCE AND PRELIMINARY COST ESTIMATE PURPOSES. LIGHT POLE FOUNDATIONS SHOULD BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER BASED ON EXISTING SOIL CONDITIONS, LOCAL DESIGN STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
 CONTRACTOR TO CONFIRM GROUNDING DESIGN WITH MEP.

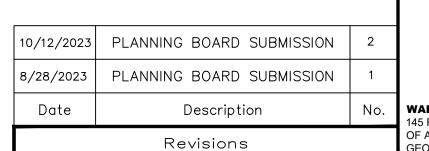
4 LIGHT POLE BASE

NTS

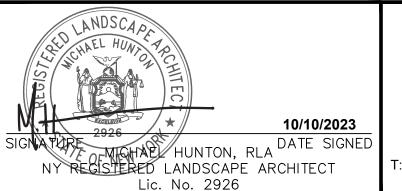
TOWN OF NEWBURGH APPROVAL BOX TOWN PROJECT # 2022-29

PLANNING BOARD CHAIRPERSON DATE
JOHN P. EWASUTYN

NOTE: SEE SHEET LL100 FOR OVERALL LIGHTING PLAN, FIXTURE SCHEDULE AND STATISTICS. SEE SHEET LL101 AND LL102 FOR ENLARGED LIGHTING PLANS.



WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE
145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR
GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.



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TOWN OF NEWBURGH

**NEW YORK** 

ORANGE COUNTY

SITE LIGHTING NOTES & DETAILS

Project No.

190063302

Date

JULY 10, 2023

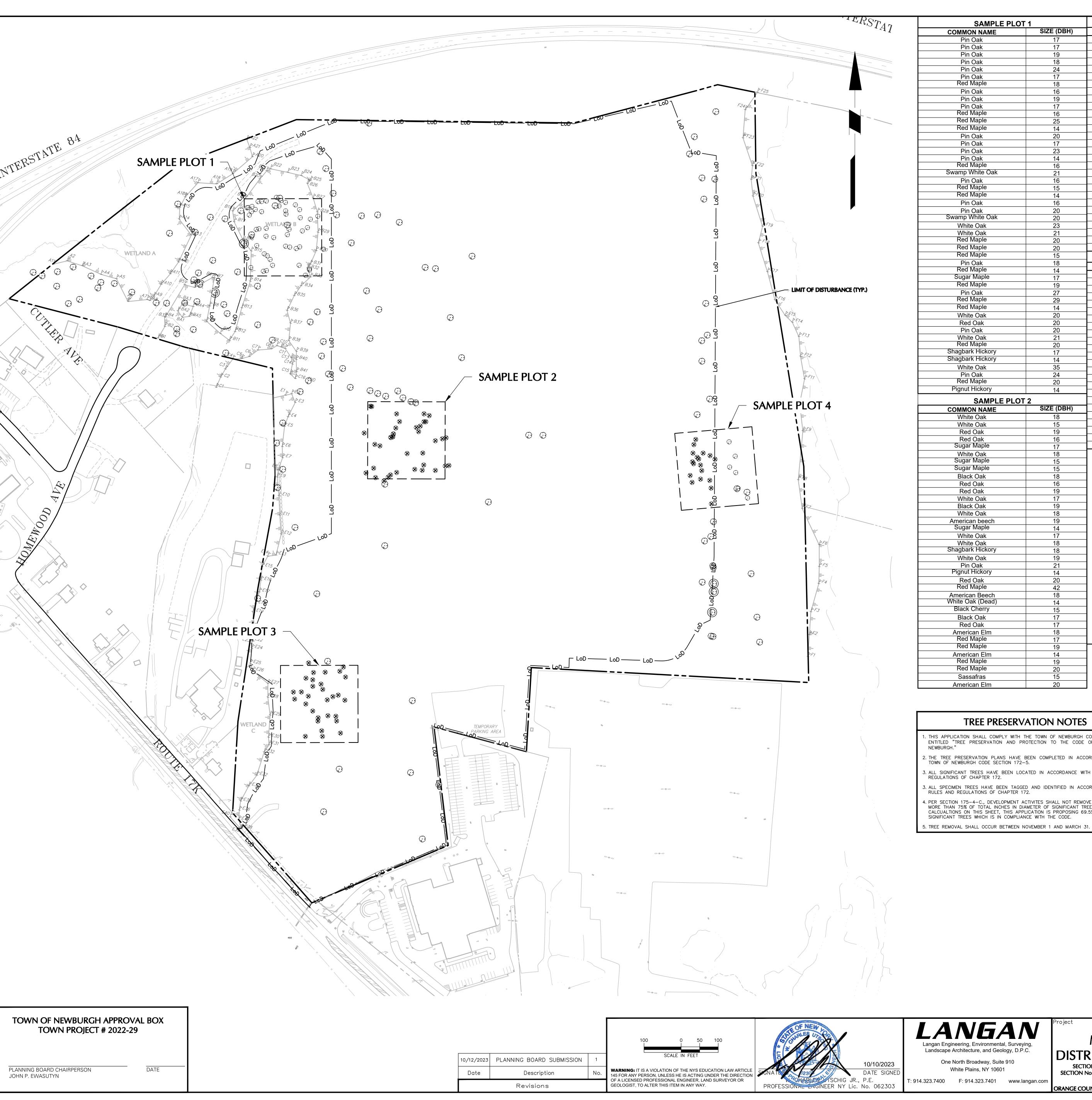
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Drawing No.



SAMDLE DLOT	4	SAMPLE PLOT 2	CAMPLE DLOT 2		
SAMPLE PLOT COMMON NAME	1 SIZE (DBH)	SAMPLE PLOT 3 COMMON NAME	SIZE (DBH)		
Pin Oak	17	American Elm	20		
Pin Oak	17	Norway Maple	15		
Pin Oak	19	American Elm (Dead)	14		
Pin Oak	18	White Oak	16		
Pin Oak	24	American Elm	15		
Pin Oak	17	Pin Oak	14		
Red Maple	18	Red Oak Sugar Maple	14 14		
Pin Oak Pin Oak	<u>16</u> 19	White Oak	14 18		
Pin Oak	17	Norway Maple	19		
Red Maple	16	White Oak	16		
Red Maple	25	Red Oak	20		
Red Maple	14	White Oak	14		
Pin Oak	20	Red Maple	19		
Pin Oak	17	Black Cherry	14		
Pin Oak	23	Sugar Maple	18		
Pin Oak Red Maple	14	Pin Oak	14		
Swamp White Oak	<u>16</u> 21	Pin Oak Black Oak	18 18		
Pin Oak	16	Sugar Maple	16		
Red Maple	15	Sugar Maple	20		
Red Maple	14	Sugar Maple	20		
Pin Oak	16	White Oak (Dead)	15		
Pin Oak	20	Black Oak	16		
Swamp White Oak	20	Pin Oak	16		
White Oak	23	Black Oak	22		
White Oak	21	Sugar Maple	16		
Red Maple	20	Eastern Red Cedar	14		
Red Maple	20	Shagbark Hickory	16		
Red Maple	15	SAMPLE PLOT 4	ļ		
Pin Oak Red Maple	18	COMMON NAME	SIZE (DBH)		
Sugar Maple	14 17		48		
Red Maple	17 19	Pignut Hickory	16		
Pin Oak	27	Tree-of-Heaven	18		
Red Maple	29	Sweet Birch	18		
Red Maple	14	White Oak	30		
White Oak	20	Sassafras Red Maple	14		
Red Oak	20	Pignut Hickory	18 21		
Pin Oak	20	Pignut Hickory	21 18		
White Oak	21	Red Oak	15		
Red Maple	20	Sugar Maple	14		
Shagbark Hickory	17	Tree-of-Heaven	14		
Shagbark Hickory	14	Yellow Birch	14		
White Oak Pin Oak	35 24	Pignut Hickory	15		
Red Maple	20	Shagbark Hickory	20		
Pignut Hickory	14	Sugar Maple	16		
		Pignut Hickory Pignut Hickory	25		
SAMPLE PLOT		White Oak	16 15		
COMMON NAME	SIZE (DBH)	White Oak	15		
White Oak	18	White Ash	19		
White Oak Red Oak	<u>15</u> 19	Red Oak	19		
Red Oak	16	Norway maple	20		
Sugar Maple	17	Norway maple	20		
White Oak	18	Total Significant Tree Inches			
Sugar Maple	15	Over 4 Acres	2,472		
Sugar Maple	15	(Excluding Dead Trees)			
Black Oak	18	_			
Red Oak	16	Existing Wooded Area Onsite (Acres)	39.25		
Red Oak	19		JJ.£J		
White Oak	17	4			
Black Oak	19	Total Significant			
White Oak	18	Tree Inches	24,257		
American beech Sugar Maple	19 14	Over Wooded Area Onsite			
White Oak	<u>14</u> 17	<del></del>			
White Oak	18	Tree Inches			
Shagbark Hickory	18	Over Wooded Area Onsite	18,192		
White Oak	19	(Allowable Removal in Inches)			
Pin Oak	21				
Pignut Hickory	14	Proposed Tree Removal	27.3		
Red Oak	20	(Acres)	۵۱.3		
Red Maple	42	4			
American Beech White Oak (Dead)	18	Proposed Significant Tree Removal			
Black Cherry	14 15	(Inches)	16,868		
Black Oak	15 17	┨ ` ` **′			
Red Oak	17	-1			
American Elm	18	Proposed Significant Tree Removal (%)	69.54%		
Red Maple	17	<b>-</b>	· <del>-</del>		
Red Maple	19				
American Elm	14				
D IM					
Red Maple	19	_			
Red Maple	20				
•					

# TREE PRESERVATION NOTES

1. THIS APPLICATION SHALL COMPLY WITH THE TOWN OF NEWBURGH CODE CHAPTER 172 ENTITLED "TREE PRESERVATION AND PROTECTION TO THE CODE OF THE TOWN OF

- 2. THE TREE PRESERVATION PLANS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE TOWN OF NEWBURGH CODE SECTION 172-5.
- 3. ALL SIGNIFICANT TREES HAVE BEEN LOCATED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF CHAPTER 172. 3. ALL SPECIMEN TREES HAVE BEEN TAGGED AND IDENTIFIED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF CHAPTER 172.
- 4. PER SECTION 175-4-C., DEVELOPMENT ACTIVITES SHALL NOT REMOVE OR DISTURB MORE THAN 75% OF TOTAL INCHES IN DIAMETER OF SIGNIFICANT TREES. PER THE CALCUALTIONS ON THIS SHEET, THIS APPLICATION IS PROPOSING 69.5% REMOVAL OF SIGNIFICANT TREES WHICH IS IN COMPLIANCE WITH THE CODE.

NO.	COMMON NAME	SIZE (DBH)	NOTES				
101 102	Swamp White White Oak	25 39	TO REMAIN TO REMAIN				
103	White Oak	26	TO REMAIN				
104	Sugar maple	33	TO REMAIN				
105 106	Black Oak Black Oak	30 24	TO REMAIN TO REMAIN				
107	Black Oak	26	TO REMAIN				
108	White Oak	38	TO REMAIN TO REMAIN				
109 110	Black Oak White Oak	25 26	TO REMAIN TO REMAIN				
111	Red Oak	26	TO REMAIN				
112 113	Pin Oak Eastern cottonwood	27 31	TO REMAIN TO REMAIN				
114	Red Maple	36	TO REMAIN				
115	Red Maple	28	TO REMAIN				
116 117	Eastern cottonwood Red Oak	24 25	TO BE REMOVED  TO BE REMOVED				
118	Red Maple	24	TO BE REMOVED				
119	Red Maple	25	TO BE REMOVED				
120 121	Swamp White Cottonwood	24 25	TO REMAIN TO REMAIN				
122	Swamp White	26	TO REMAIN				
123	Red Oak Swamp White	33	TO REMAIN				
124 125	Swamp White	25 30	TO REMAIN TO REMAIN				
126	Black Oak	38	TO BE REMOVED				
127 128	Red Oak	26 33	TO BE PROTECTED				
129	White Oak Black Oak	24	TO BE PROTECTED  TO BE REMOVED				
130	Black Oak	30	TO BE REMOVED				
131 132	Pin Oak Red Maple	25 24/20	TO REMAIN TO BE PROTECTED				
133	Red Maple	29	TO BE REMOVED				
134 135	Pin Oak Pin Oak	24 24	TO REMAIN TO REMAIN				
136 137	Red Oak Red Maple	24 26	TO BE REMOVED  TO REMAIN				
138	Red Oak	25	TO REMAIN				
139 140	Red Maple Pin Oak	25 32	TO REMAIN TO REMAIN				
141 142	Red Maple Cottonwood	27 24	TO REMAIN TO REMAIN				
143	Red Maple	27	TO REMAIN				
144 145	Cottonwood American Beech	37 24	TO BE REMOVED TO BE REMOVED				
146 147	Red Oak Black Oak	29 25	TO BE REMOVED TO BE REMOVED				
148	Red Oak	25	TO BE REMOVED				
149 150	White Oak White Oak	25 24	TO BE REMOVED TO BE REMOVED				
151 152	Red Oak Red Oak	33 24	TO BE REMOVED TO BE REMOVED				
153	White Oak	32	TO BE REMOVED				
154 155	Red Oak Black Oak	27 25	TO BE REMOVED TO BE REMOVED				
156 157	Red Oak Red Maple	37 36	TO BE REMOVED TO BE REMOVED				
158	Red Oak	30	TO BE REMOVED				
159 160	Red Oak White Oak	37 29	TO REMAIN TO REMAIN				
161 162	White Oak Red Oak	27 25	TO REMAIN TO REMAIN				
163	Red Oak	27	TO BE PROTECTED				
164 165	Black Oak Red Oak	27 25	TO BE REMOVED TO BE REMOVED				
166 167	White Oak White Oak	24 41	TO BE REMOVED TO BE REMOVED				
168	White Oak	25	TO BE REMOVED				
169 170	White Oak White Oak	27 25	TO BE REMOVED TO BE REMOVED				
171 172	Red Oak Red Maple	24 24	TO REMAIN TO REMAIN				
173	Swamp White	25	TO REMAIN				
174 175	White Oak Red Maple	35 25	TO REMAIN TO REMAIN				
176 177	Black Locust Silver maple	35 37	TO REMAIN TO BE REMOVED				
178	White Oak	24	TO REMAIN				
179 180	Pignuthickory Sugar maple	24 24	TO REMAIN TO BE REMOVED				
181 182	American Beech Norway Maple	24 25	TO BE REMOVED TO BE REMOVED				
183	Mockernut	25	TO BE REMOVED				
184 185	Red Oak Sugar maple	27 32	TO BE REMOVED TO BE REMOVED				
186 187	Norway Maple Black oak	27	TO BE REMOVED TO BE REMOVED				
188	Pignut	32	TO BE REMOVED				
189 190	Norway Maple Norway Maple	26 27	TO BE REMOVED TO BE REMOVED				
191 192	Sugar maple Sugar maple	26 27	TO BE REMOVED TO BE REMOVED				
193	Red Oak	34	TO BE REMOVED				
194 195	White Oak Red oak	33 24	TO REMAIN TO REMAIN				
196 197	White Oak Sugar maple	31 25	TO BE PROTECTED  TO BE PROTECTED				
198	Mockernut	25	TO BE PROTECTED				
199 200	Red Oak Pignut	25 24	TO BE REMOVED TO BE REMOVED				
201 202	White Oak Red Oak	25 25	TO BE REMOVED TO BE REMOVED				
203	Pignut	25 25 32	TO BE REMOVED				
204 205	Red Oak Red Oak	32	TO BE REMOVED TO BE REMOVED				
206 207	Pignut Tulip poplar	24 24	TO BE REMOVED TO BE REMOVED				
208	White Oak	26	TO BE REMOVED				
209 210	Red Oak Black Oak	33 24	TO BE REMOVED TO BE REMOVED				
211 212	Tulip poplar Black Oak	27/16 27	TO REMAIN TO REMAIN				
213	Sugar maple	24	TO BE REMOVED				
214 215	Pignuthickory White Oak	27 48	TO REMAIN TO REMAIN				
216 217	Red Oak Red Oak	24 25	TO BE REMOVED TO BE REMOVED				
218	Black Oak	26	TO REMAIN				
219 220	Tulip poplar Red Oak	24 24	TO REMAIN TO REMAIN				
221	Pin Oak Swamp White	26 26	TO BE REMOVED TO REMAIN				
	Total Specimen		I O NEIVIAIN				
Tree Inches							
	Total Specimen						
Tree	Total Specimen Inches To Be Removed	1,716					
<u> </u>							

**SPECIMEN TREES** 

NOTES

NO. COMMON NAME SIZE (DBH)

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C. One North Broadway, Suite 910 White Plains, NY 10601

ORANGE COUNTY

MATRIX I-84 DISTRIBUTION CENTER SECTION No. 86, BLOCK No. 1, LOT No. 97 SECTION No. 89, BLOCK No. 1, LOT No. 66 and 69.11 **TOWN OF NEWBURGH** 

**NEW YORK** 

**OVERALL TREE PRESERVATION** PLAN

Drawing No. 190063302 TP100 Checked By

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