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TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT: SHOPPES AT UNION SQUARE AMENDED SITE PLAN

PROJECT NO.: 2018-10

PROJECT LOCATION: SECTION 96 – BLOCK 1 – LOT 6.2

REVIEW DATE: 29 AUGUST, 2018 MEETING DATE: 6 SEPTEMBER, 2018

PROJECT REPRESENTATIVE: KARC PLANNING CONSULTANTS/LANGAN ENGINEERING

The Applicants have responded to our previous comments on the Amended Site Plan. Several items continue to be outstanding, including the following:

- 1. Engineer's evaluation regarding Operation and Maintenance of the Stormwater Management Facilities installed during Phase One which were designed and constructed in support of both Phase One and Phase Two. It is noted that during the original design of the Stormwater collection conveyance and treatment systems, that additional water quality volume treatment was requested of the Applicant, based on Town of Newburgh Planning Board policy for projects located within the Washington Lake Watershed. The original design included 110% of the required water quality volume treatment to be provided. This provides 10% additional water quality treatment volume above that which is required by the NYSDEC Design Standards.
- 2. The proposed project is an Amended Site Plan addressing the previous approved Phase Two project which included a proposed 18,102 square foot retail building identified at the time as a Staples Office Supply store. The current project proposes a site plan amending Phase Two portion of the project consisting of two retail buildings totaling 19,190 square feet, including provisions for a fast-food facility with a drive-up window. The redesigned facility has resulted in a slight reduction in overall site disturbance of approximately 0.1 acres.
- **3.** A City of Newburgh flow acceptance letter was issued for the project dated 20 June 2008. The flow acceptance letter was for a hydraulic loading of 13,889 gpd. Projected hydraulic loading from the proposed amended. Plan totals 13,085 gpd, 804 gallons less than the original sewer flow acceptance allocation.
 - Regional Office 111 Wheatfield Drive Suite 1 Milford, Pennsylvania 18337 570-296-2765 •



- 4. Supplemental Environmental information has been submitted, including a threatened endangered habitat suitability assessment performed by Ecological Solutions of Southburgh, Connecticut. Correspondence from the United States Fish and Wildlife Service has been received identifying potential threatened endangered species on the site. Each of these is addressed in the Ecological Solutions report.
- 5. Supplemental Traffic information has been received from the Applicant's Traffic Consultant identifying that the current proposal would generate an additional 17 pm peak hour trips and a corresponding reduction of 18 Saturday peak hour trips based on the change in the retail component mix.
- 6. Egological Solutions has re-evaluated the Federal Jurisdictional Wetlands on the site. A 14 August 2018 letter regarding the wetlands delineation identifies that the there are no Federal-US Army Corps. Engineers or State NYSDEC Wetlands located within the Phase Two area of the project.
- **7.** Architectural plans as prepared by the Applicant's Architectural Consultant have been submitted for the Planning Board's review.
- **8.** A Part One of the Full Environmental Assessment Form has been prepared by the Applicant's various consultants addressing modifications to the plans and comparing changes to the original SEQRA Negative Declaration and reaffirmed Negative Declaration previously issued for the project.
- 9. A Planning Board should determine whether a Public Hearing for the project is to be held.
- **10.** Submission of the complete application to the Orange County Department of Planning is required. Sufficient information has been provided to allow for circulation of the plans and reports to the Orange County Planning Department.

Respectfully submitted,

McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.

Patrick J. Hines
Principal



August 23, 2018

Chairman John P. Ewasutyn, Chairman and Members of the Town of Newburgh Planning Board 308 Gardnertown Road Newburgh NY 12550

HAND DELIVERED

Re: The Shoppes at Newburgh Town of Newburgh Project # 2018-10

Dear Chairman Ewasutyn and Members of the Board,

Enclosed find the following for your review:

- 1. Sixteen (16) copies of Amended Site Plan prepared by Langan Engineering dated 8/22/2018.
- 2. Sixteen (16) copies of Key Plan and Elevations prepared by DeGraw & DeHaan Architects
- 3. Sixteen (16) copies of amended EAF from KARC dated 08.21.18.
- 4. Sixteen (16) copies of Federal Threatened and Endangered Species Habitat Suitability Assessment Report from Michael Nowicki dated 08.03.2018.
- 5. Sixteen (16) copies of United States Department of the Interior Fish and Wildlife Service dated 08.03.18.
- 6. Sixteen (16) copies of Amended Memorandum re: Trip Generation Comparison dated 08.08.18, prepared by Maser Consulting.

Below, please find our responses to comments received from our previous submission to the Town of Newburgh Planning Board on July 19, 2018.

Please find below our summary of responses to the Comments received from Patrick Hines, McGoey, Hauser, and Edsall in a letter dated August 2, 2018:



1. The project is back before the Planning Board for an amendment to the Phase II retail component eliminating a former Staples retail in favor of 2 separate retail buildings approximately 1,028 sq. ft. larger than the previous proposal.

Response: No comment.

 The EAF submitted identifies that further ecological studies will be performed to identify threatened, endangered, rare or species of special concern. This information should be provided to the Planning Board.

Response: See attached study which is appended to the EAF.

3. Stormwater management plans and reports were reviewed during the initial project review and approval. The original stormwater management plan and report identified treatment of 110% of the required water quality volume through the conveyance collection and treatment system. Under pipe storage for quantity control and a sand filter for water quality improvements were incorporated in the original design. All Phase II stormwater treatment improvements were installed during the Phase I construction of the project. It is requested the Applicant's representatives evaluate the condition of the improvements as installed and provide an updated report as to the function and design of the system.

<u>Response:</u> Langan Will complete an inspection of the stormwater management system installed during Phase 1 and will either confirm the system appears to be maintained and in working order or will identify needed maintenance which will be completed by the applicant.

4. A revised Phase II project will slightly decrease (0.1 acres) the tributary watershed or the impervious area tributary to the previous improvements. The project is an amended site plan based on the 2010 (2008 design manual) standards which were in place during the SEQR review and site plan review for the project.

Response: No comment.

Ken Werstend's comments regarding traffic impacts should be received. NYSDOT comments regarding the proposal should be received based on updated traffic information.

Response: See the response from our Traffic Consultant appended to the EAF.



The Applicant's representatives are requested to evaluate the proposed increases in sewer hydraulic loading over that which was previously approved for the entire project. The City of Newburgh flow authorization letter for the original 2010 approval should be evaluated with regard to flow from the amended Phase II of the project.

Response: In the City of Newburgh letter dated 20 June 2008, the City granted approval for a sewage flow not to exceed 13,889 gallons per day for the Shoppes at Union Square development. Phase 1 of the development has since been built, which is a 4,820 SF retail building. This accounts for 482 gallons per day of the original 13,889 gallons per day allocation. Phase 2 is projected to use 5,021 gallons per day.

After the construction of Phase 1 and Phase 2, a total of 5,503 gallons per day is projected, which is less than the originally approved 13,889 gallons per day. When Phase 3 is constructed, a 71,000 SF supermarket, an additional sewage flow rate of 7,100 gallons per day is anticipated. The total projected sewage flow rate of all three phases is 482 + 5,503 + 7,100 = 13,085 gallons per day, which is less than the originally approved allocation of 13,889 gallons per day.

7. The Applicant's representatives have noted that the Phase III stream crossing will not be proposed at this time.

Response: Correct

8. Landscaping plans should identify compliance with Section 85-13 #9(a).

Response: Figure entitled "Internal Landscaping Area for Phase II Parking Lot" is included in this submission, which shows 7.7% of landscaping provided greater than the 5% required.

9. Health Department approval for the internal water system is required as hydrants are proposed to be added.

Response: The Orange County Department of Health application for approval of plans for public water supply improvement was filed with the County simultaneously with this resubmission package to the Town of Newburgh.

10. Information provided for sizing of the grease trap proposed to serve retail D should be submitted.



<u>Response:</u> Langen Engineering is currently completing the submission to the OCDOH and will provide this information to the board shortly.

11. Standard Town of Newburgh water and sewer system notes must be updated on the plans. Copies of which are attached.

<u>Response:</u> The plans were revised to reflect the Standard Town of Newburgh water and sewer system notes provided.

12. The federal jurisdictional wetland boundary identified in 2008 depicted to be confirmed. Jurisdictional wetland delineation should be provided.

Response: Comment Noted and will be discussed with the Town Engineer.

13. Erosion sediment control plan should identify the discharge for the temporary sediment trap. Sediment trap may need to be phased as filling of the area is proposed.

<u>Response</u>: The soil erosion and sediment control plan has been revised to show the discharge for the temporary sediment trap.

14. Our NYSDEC permits required for filling of the embankment and the westerly most portion of the site.

Response: With the exception of a SPDES stormwater permit, we understand no NYSDEC permits are required for the phase 2 work. We note that there are no wetlands directly adjacent to this area and no filling is proposed within the stream bed-and-banks.

15. A slope stabilization detail is provided. Areas for this to be used should be delineated on erosion control plans.

<u>Response:</u> The soil erosion and sediment control plan has been revised to delineate the areas where the slope stabilization blanket shall be used.

Please find below our summary of responses to the Comments received from Kenneth Wersted, P.E., Creighton Manning Engineering, LLP, in a letter dated July 27, 2018:

 The last trip generation and analysis received by our office as part of the original analysis and subsequently approved, was dated September 8, 2009 from JCE. It



included 22,922 SF of retail (not including the supermarket), generating 152 total trips in the PM peak hour, and 206 trips in the Saturday peak hour based on ITE 8th Edition data. Updating the original analysis to 10th Edition yields about 20% more trips in the PM peak hour, and 6% fewer trips in the Saturday peak hour. (See table below). The updated trip generation estimate provided by Maser Consulting, P.A. (7/18/2018), applies an average rate to the retail square footage rather than using the ITE regression equation for LUC 820. Adding in the restaurant with drive-thru yields a total of 120 trips in the PM and 168 trips in the Saturday peak hours. The average rate is near the low end of the data points for this use; therefore, the regression equation has a better correlation to the data. Using the equation for the retail yields a total trip generation of 203 trips in the PM and 247 in the Saturday peak hour. Use of the average rate yields results that are less than originally studies (79 to 82%), while the regression equation is greater than studies (120 to 134%). There is a Smoothie King in Wappinger's Falls and it appears to operate like a Starbucks but with a menu limited to smoothies. The Maser analysis assumed it to operate like a fast-food restaurant with a drive-through, which we agree is appropriate given the lack of data on a smoothie shop, but this type of use has a much higher trip generation rate on a per square-foot basis that retail, which, in part, yields a proposed trip generation of higher than originally studies. If a fast-food restaurant is overestimating the trips generated by a use with a very limited menu, transaction data from Wappinger's Falls could help identify the expected number of trips and substantiate that even the proposed use, the expected operations will be similar to that originally studied.

Condition	Total Trips	
	PM Peak Hour	Saturday Peak Hour
Original-ITE 8th Edition (22,922 SF)	152 (-%)	206 (-%)
Original-ITE 10 th Edition (22,922 SF)	183 (120%)	193 (94%)
Proposed-Using Average Rate for Retail	120 (79%)	168 (82%)
Proposed-Using Regression Equation	203 (134%)	247 (120%)

<u>Response:</u> See attached response memo from Maser Consulting appended to the EAF.

2. The applicant has updated the parking tables on the Phase 2 site plan, indicating that Phase 2 provides enough parking to meet zoning and that the sum of existing, Phase 1, and Phase 2 exceeds the required amount.



Response: Agreed

 Although the west side of the building is indicated to be the rear of the building, with no customer access, two handicap accessible parking spaces are proposed to be added.

Response: Correct.

4. The architectural plans (A101) do not indicate any protrusion from the building towards the drive-through lane, while the Front and Left elevations (A102) suggest there to be - the site plan shows none. In addition, the Left elevation doesn't show a drive-thru window as one would expect.

Response: See attached amended Architectural drawings.

Please find below our summary of responses to the Comments received from Karen Arent Landscape Architect, in a letter dated August 6, 2018:

The consultant made all requested changes. The plant proposed to replace one
of the ornamental grasses that does not do well in this area is Equisetum
hyemale. I could not find it on the drawing. If it is in a location that is confined,
for example, between curbs, it is fine. However, if it is near the edges of the side
without curb surrounding it, another grass should be specified.

<u>Response</u>: This plant is proposed to be located within the sidewalk planting beds between the proposed buildings, which are completely surrounded by pavement and building.

2. The Town of Newburgh requires a landscape bond and several inspections to ensure work is done in accordance with plans. Please submit a landscape cost estimate to this office for review.

Response: Estimates for bond shall be provided upon site plan approval.

Thank you for your assistance with this matter.

Sincerely,

Kelly Libolt cc: w/enclosures



Karen Arent

12 Old Minisink Lane Goshen, New York 10924

Kenneth W. Wersted

Creighton Manning Engineering, LLP (CME) 2 Winners Circle Albany, New York 12205

Michael H. Donnelly, Esquire P.O. Box 610 Goshen, New York 10924

Patrick J. Hines

McGoey, Hauser and Edsall Consulting Engineers P.C. 33 Airport Drive Suite 202 New Windsor, New York 12553

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 project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project:			
The Shoppes at Union Square			
Project Location (describe, and attach a general location map):		-	
Northwest of the intersection of NYS Route 300 and Orr Avenue Town of Newburgh,	Orange County,NY		
Brief Description of Proposed Action (include purpose or need):		<u> </u>	
The Applicant is proposing to Modify Phase 2 of the previously Approved Developme single 18,102 sq. ft. Staples structure and associated parking and infrastructure.	nt Project. Phase 2 of the projec	t included the construction of a	
The current plan proposes to construct two retail buildings which are approximately 1 approved Staples building.	9,130 square feet in the same loo	cation as the proposed previously	
This EAF is intended to address the modifications to the plan and will compare chang original project.	es to the SEQRA Negative Decla	aration that was issued for the	
Name of Applicant/Sponsor:	Telephone:	····	
N&N Union LLC	E-Mail:		
Address: 1089 Little Britian Road			
City/PO: New Windsor	State: NY	Zip Code:	
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 845-243-2	L 2500	
Kelly Libolt/ KARC Planning Consultants	E-Mail: kelly@karcpc		
Address: PO Box 924	·		
City/PO:	State:	Zip Code:	
Poughkeepsie	NY	12602	
Property Owner (if not same as sponsor):	Telephone:	Telephone:	
Same as Applicant/Sponsor	E-Mail:		
Address:			
City/PO:	State:	Zip Code:	
·			

B. Government Approvals

B. Government Approvals Funding, or Spons assistance.)	sorship. ("Funding" includes grants, loans, tax	relief, and any other	forms of financial
Government Entity	If Yes: Identify Agency and Approval(s) Required	Applicat (Actual or	
a. City Council, Town Board, □Yes☑No or Village Board of Trustees			
b. City, Town or Village ✓Yes□No Planning Board or Commission	Amended Site Plan Approval		-
c. City Council, Town or ☐Yes ☑No Village Zoning Board of Appeals			
d. Other local agencies Yes \(\overline{\sigma}\)No			
e. County agencies ✓ Yes□No	GML - 239 M County Review, possible Department of Health for water service		_
f. Regional agencies Yes INo			
g. State agencies ✓ Yes□No	NYSDEC SWPPP		
h. Federal agencies ☐Yes ✓No			
	the waterfront area of a Designated Inland Wa	iterway?	□Yes Z No
If Yes, ii. Is the project site located in a community with iii. Is the project site within a Coastal Erosion	with an approved Local Waterfront Revitalizati Hazard Area?	on Program?	☐ Yes No ☐ Yes No
C. Planning and Zoning			
C.1. Planning and zoning actions.			
 Will administrative or legislative adoption, or an only approval(s) which must be granted to enable If Yes, complete sections C, F and G. If No, proceed to question C.2 and complete sections C.2. 	nendment of a plan, local law, ordinance, rule of the proposed action to proceed? plete all remaining sections and questions in Pa	-	∐Yes ⊠ No
C.2. Adopted land use plans.			***************************************
a. Do any municipally- adopted (city, town, villa where the proposed action would be located? If Yes, does the comprehensive plan include spec would be located?	- · · · · ·		□Yes ☑ No
b. Is the site of the proposed action within any lo Brownfield Opportunity Area (BOA); designa or other?) If Yes, identify the plan(s):	cal or regional special planning district (for exa ted State or Federal heritage area; watershed m	ample: Greenway anagement plan;	□Yes ☑ No
c. Is the proposed action located wholly or partia or an adopted municipal farmland protection If Yes, identify the plan(s):		al open space plan,	∐Yes ⊠ No

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 District	
b. Is the use permitted or allowed by a special or conditional use permit?	∠ Yes□No
c. Is a zoning change requested as part of the proposed action?	Yes No
If Yes, i. What is the proposed new zoning for the site?	1056110
C.4. Existing community services.	
a. In what school district is the project site located? Newburgh	
b. What police or other public protection forces serve the project site? Town of Newburgh	
c. Which fire protection and emergency medical services serve the project site? Orange Lake	
d. What parks serve the project site?	
NA	
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)? Commercial Property	include all
b. a. Total acreage of the site of the proposed action? 11.39 acres	
b. Total acreage to be physically disturbed? 3.28 acres c. Total acreage (project site and any contiguous properties) owned	
or controlled by the applicant or project sponsor?11.39 acres	
c. Is the proposed action an expansion of an existing project or use?	☐ Yes No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, l square feet)? % Units:	iousing units,
d. Is the proposed action a subdivision, or does it include a subdivision?	□Yes Z No
If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)	
ii. Is a cluster/conservation layout proposed?	□Yes□No
iii. Number of lots proposed?iv. Minimum and maximum proposed lot sizes? Minimum Maximum	
e. Will proposed action be constructed in multiple phases? i. If No, anticipated period of construction: 24 months	☐ Yes Z No
i. If No, anticipated period of construction:ii. If Yes:	
Total number of phases anticipated Anticipated and the first of the state of	
 Anticipated commencement date of phase 1 (including demolition) month year Anticipated completion date of final phase month year 	
Generally describe connections or relationships among phases, including any contingencies where progress determine timing or duration of future phases:	of one phase may

	ct include new resid				☐ Yes Z No
If Yes, show nun	bers of units propo		וי כו יו	36 12 1 D 22 (0	
	One Family	Two Family	Three Family	Multiple Family (four or more)	
Initial Phase					
At completion					
of all phases		<u> </u>			
g. Does the propo	sed action include	new non-residenti	al construction (inclu	iding expansions)?	Z Yes□No
If Yes,				,	
	of structures				
ii. Dimensions (in feet) of largest p	roposed structure:	1 story_height;	90 width; and 114 length	
iii. Approximate	extent of building	space to be heated	or cooled:	20,000 (+/-) square feet	
				l result in the impoundment of any	□Yes Z No
	s creation of a wate	r supply, reservoir	, pond, lake, waste la	agoon or other storage?	
If Yes, <i>i</i> . Purpose of the	impoundment				
	oundment, the prin	cinal source of the	water:	☐ Ground water ☐ Surface water stream	ns DOther specify:
If a water map	ouncinoni, ino prin	erpar source or me	water.	Ground water Estatace water stream	in Contrapectiy.
iii. If other than w	rater, identify the ty	pe of impounded/	contained liquids and	d their source.	
iv. Approximate	size of the propose	d impoundment.	Volume:	million gallons; surface area:	acres
v. Dimensions of	f the proposed dam	or impounding sta	ructure:	height;length	
vi. Construction	method/materials f	for the proposed da	m or impounding str	ructure (e.g., earth fill, rock, wood, cond	rete):
DA Bullio					
D.2. Project Ope					
				uring construction, operations, or both?	✓ Yes□No
(Not including ;		ition, grading or in	stallation of utilities	or foundations where all excavated	
If Yes:	emani onsite)				
	rpose of the excava	tion or dredging?	Foundations		
				be removed from the site?	
	(specify tons or cul				
 Over wh 	at duration of time?	3-4 months			
iii. Describe natur	e and characteristic	s of materials to b	e excavated or dredg	ed, and plans to use, manage or dispose	of them.
All materials w	vill be used on site.				
iv Will there he	onsite dewatering	or processing of av	cavated materials?		☐Yes ✓ No
If yes, describ	onsite dewatering (n processing of ex	cavated materials:		1 Cs [y 140
v. What is the tot	al area to be dredg	ed or excavated?		acres	
	aximum area to be			acres	
			or dredging?	feet	
	vation require blast				∐Yes ∏ No
ix. Summarize site	reclamation goals	and plan:			
b. Would the prop			on of, increase or dec	crease in size of, or encroachment	∐Yes √ No
b. Would the prop					☐Yes No
b. Would the prop into any existin If Yes:	g wetland, waterbo	ody, shoreline, bea	on of, increase or dec	crease in size of, or encroachment	
b. Would the prop into any existin If Yes:	etland, waterbo	ody, shoreline, bea	on of, increase or dec ch or adjacent area? affected (by name, w		

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placen alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in so	nent of structures, or quare feet or acres:
iii. Will proposed action cause or result in disturbance to bottom sediments?	□ Yes□No
If Yes, describe: iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? If Yes:	☐ Yes ☐ No
 acres of aquatic vegetation proposed to be removed: 	
expected acreage of aquatic vegetation remaining after project completion:	
• purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):	
proposed method of plant removal:	
if chemical/herbicide treatment will be used, specify product(s):	
v. Describe any proposed reclamation/mitigation following disturbance:	
·	
c. Will the proposed action use, or create a new demand for water? If Yes:	∠ Yes □No
i. Total anticipated water usage/demand per day: TBD based on uses gallons/day	
ii. Will the proposed action obtain water from an existing public water supply?	∠ Yes □No
If Yes:	
Name of district or service area: Town of Newburgh Water	
 Does the existing public water supply have capacity to serve the proposal? 	∠ Yes No
• Is the project site in the existing district?	∠ Yes No
• Is expansion of the district needed?	☐ Yes ✓ No
Do existing lines serve the project site?	✓ Yes No
iii. Will line extension within an existing district be necessary to supply the project? If Yes:	□Yes ∠ No
Describe extensions or capacity expansions proposed to serve this project:	
Source(s) of supply for the district: Town of Newburgh Water	
iv. Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	☐ Yes Z 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), maximum pumping capacity: gallons/m	inute.
d. Will the proposed action generate liquid wastes?	Z Yes □No
If Yes:	
 i. Total anticipated liquid waste generation per day: <u>TBD based on uses</u> gallons/day ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe a 	II components and
approximate volumes or proportions of each):	ii components and
Sanitary Sewage	
iii. Will the proposed action use any existing public wastewater treatment facilities? If Yes:	✓ Yes No
Name of wastewater treatment plant to be used:City of Newburgh WWTP	
Name of district: Town of Newburgh Sewer District	
Does the existing wastewater treatment plant have capacity to serve the project?	Z Yes □No
• Is the project site in the existing district?	✓ Yes ☐ No
• Is expansion of the district needed?	☐ Yes ☑ No

<u> </u>	
Do existing sewer lines serve the project site?	Z Yes□No
 Will line extension within an existing district be necessary to serve the project? 	□Yes ☑ No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
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? If while for illustrating and describe about the second describe about the second described and the second described as a second descr	-iG.i
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spectreceiving water (name and classification if surface discharge, or describe subsurface disposal plans):	riying 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	Z Yes□No
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:	
i. How much impervious surface will the project create in relation to total size of project parcel?	
Square feet or 3.28 acres (impervious surface) Square feet or acres (parcel size)	
ii. Describe types of new point sources. Surface runoff from new impervious surfaces (roads/parking/buildings)	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p	properties,
groundwater, on-site surface water or off-site surface waters)?	
On-site stormwater management structures	
TO. 0 . 11 ./0 ./1 ./ 1 // ./ 1	
If to surface waters, identify receiving water bodies or wetlands:	
Will stormwater runoff flow to adjacent properties?	☐Yes Z No
iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	☐Yes Z No
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	✓Yes □No
combustion, waste incineration, or other processes or operations?	2 100 110
If Yes, identify:	
i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
Heavy construction equipment during construction period	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
Potential temp. heating / AC during construction	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)HVAC units to provide heat and AC to the buildings.	_
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit,	□Yes ☑ No
or Federal Clean Air Act Title IV or Title V Permit?	
If Yes:	
i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes□No
ambient air quality standards for all or some parts of the year)	
ii. In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO ₂)	
•Tons/year (short tons) of Nitrous Oxide (N2O)	
•Tons/year (short tons) of Perfluorocarbons (PFCs)	
•Tons/year (short tons) of Sulfur Hexafluoride (SF ₆)	
•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 (including, but not limited to, sewage treatment plants, landfills, composting facilities)?	☐Yes Z No
If Yes:	
i. Estimate methane generation in tons/year (metric):	. 1
ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to electricity, flaring):	generate heat or
i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as	∐Yes Z No
quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):	
11 165. Deserted operations and nature of chissions (e.g., dieser exhaust, fock particulates/dust).	
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial	☐Yes Z No
new demand for transportation facilities or services?	
If Yes:	*See attached Traffic
i. When is the peak traffic expected (Check all that apply):	Memo prepared Creighton Manning
ii. For commercial activities only, projected number of semi-trailer truck trips/day:	_
iii. Parking spaces: Existing Proposed Net increase/decrease	
iv. Does the proposed action include any shared use parking?v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing	r esno
7. 11 the proposed action includes any incumental of existing loads, election of new loads of change in existing	g access, describe.
vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site?	
vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric	□Yes□No □Yes□No
or other alternative fueled vehicles?	
viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing	□Yes□No
pedestrian or bicycle routes?	
k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand	✓ Yes No
for energy?	
If Yes: i. Estimate annual electricity demand during operation of the proposed action:	
TBD based on uses	
ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grie	d/local utility, or
other):	• /
Central Hudson Gas & Electric	
iii. Will the proposed action require a new, or an upgrade to, an existing substation?	∐Yes∐No
l. Hours of operation. Answer all items which apply.	
i. During Construction: ii. During Operations:	
Monday - Friday:8:00AM - 10:00PM	Ises
Saturday: 8:00AM - 10:00PM	 ,
• Sunday: 8:00AM - 10:00PM • Sunday:	
Holidays:	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?	☐ Yes Z No
If yes: i. Provide details including sources, time of day and duration:	
ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? Describe:	□Yes□No
n Will the proposed action have outdoor lighting? If yes:	Z Yes □No
i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: Parking lot lighting and building lighting for safety	
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Describe:	□Yes ☑ No
o. Does the proposed action have the potential to produce odors for more than one hour per day?	☐ Yes Z No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:	
	-
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:	☐ Yes ☑ No
i. Product(s) to be stored ii. Volume(s) per unit time (e.g., month, year)	
iii. Generally describe proposed storage facilities:	
 q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? If Yes: 	☐ Yes Z No
i. Describe proposed treatment(s):	
ii. Will the proposed action use Integrated Pest Management Practices?	☐ Yes ☐No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? If Yes:	✓ Yes □No
i. Describe any solid waste(s) to be generated during construction or operation of the facility:	
 Construction: TBD tons per (unit of time) Operation: TBD tons per (unit of time) 	
ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:	:
Construction: All materials which can be recycled will be stored and recycled accordingly	
Operation: All materials which can be recycled will be stored and recycled accordingly	_
 iii. Proposed disposal methods/facilities for solid waste generated on-site: Construction: <u>Licensed Hauler</u> 	
Operation: Licensed Hauler	

s. Does the proposed action include construction or mod	lification of a solid waste n	nanagement facility?	Yes 🗸 No
If Yes: i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or			a landfill or
other disposal activities):	a for the she (e.g., recycling	g of transfer station, composting	s, randim, or
ii. Anticipated rate of disposal/processing:			
• Tons/month, if transfer or other non-		nent, or	
• Tons/hour, if combustion or thermal	treatment		
	years		
t. Will proposed action at the site involve the commercia	al generation, treatment, sto	orage, or disposal of hazardous	☐Yes Z No
waste?			
If Yes:			
i. Name(s) of all hazardous wastes or constituents to b	e generated, handled or ma	naged at facility:	
ii. Generally describe processes or activities involving	hazardous wastes or consti	tuents:	
	· · · · · · · · · · · · · · · · · · ·		
iii. Specify amount to be handled or generated	tons/month		
iv. Describe any proposals for on-site minimization, re-	cycling or reuse of hazardo	us constituents:	
v. Will any hazardous wastes be disposed at an existing	g offsite hazardous waste fa	acility?	□Yes□No
If No: describe proposed management of any hazardous	wastes which will not be so	ent to a hazardous waste facility	/ :
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	project site.		
☐ Urban ☐ Industrial ☐ Commercial ☐ Resid		ral (non-farm)	
✓ Forest ☐ Agriculture ☐ Aquatic ☐ Othe <i>ii.</i> If mix of uses, generally describe:	r (specify):		
ii. If this of uses, generally describe.			
b. Land uses and covertypes on the project site.			
Land use or	Current	Acreage After	Change
Covertype	Acreage	Project Completion	(Acres +/-)
 Roads, buildings, and other paved or impervious surfaces 		3.28	
		0.20	- ·
	3.28		
 Meadows, grasslands or brushlands (non- agricultural, including abandoned agricultural) 			
Agricultural			
(includes active orchards, field, greenhouse etc.)			
Surface water features			
(lakes, ponds, streams, rivers, etc.)			
 Wetlands (freshwater or tidal) 			
Non-vegetated (bare rock, earth or fill)	-		
Other			
Describe:			
		1	

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: People with disabilities People with disabilities	c. Is the project site presently used by members of the community for public recreation? i. If Yes: explain:	□Yes☑No
If Yes: i. Dimensions of the dam and impoundment: Dam leight: Dam leight: Surface area: Surface ar	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,	☐Yes Z No
If Yes: i. Dam height: Dam height: Dam height: Dam height: Dam height: Dam height: Dam height: Dam height: Dam height: Dam height: Dam height: Dam height: Dam		
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: [III. Provide date and summarize results of last inspection: [III. Provide date and summarize results of last inspection: [III. Provide date and summarize results of last inspection: [III. Provide date and summarize results of last inspection: [IV. Provide date and summarize results of last inspection: [IV. Provide date and summarize results of last inspection: [IV. Provide date and summarize results of last inspection: [IV. Provide date and summarize results of last inspection: [IV. Provide date and summarize results of last inspection: [IV. Provide date and summarize results of last inspection: [IV. Provide date and summarize results of last inspection: [IV. Provide date and summarize results of last inspection: [IV. Provide describe date and summarize results of last inspection: [IV. Describe and development constraints due to the prior solid waste activities: [IV. Describe and development constraints due to the prior solid waste activities: [IV. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: [IV. Provide Describe waste(s) handled and waste management activities, including approximate time when activities occurred: [IV. Provide Describe waste(s) handled and waste management activities, including approximate time when activities occurred: [IV. Provide Describe activities occurred: [IV. Provide		☐Yes ✓ No
Dam height: Dam length: Eet Dam length: Eet Surface area:		
Dam length: Surface area: Sur	•	
Surface area: Volume impounded: Ballons 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, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: i. Has the facility been formally closed? 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: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If Yes: i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Yes No Remediation database? Check all that apply: Yes = Environmental Site Remediation database Provide DEC ID number(s): Provide DEC ID number(s): Yes = Decident within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No If yes, provide DEC ID number(s): Yes No If yes, p		
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☐ Yes - Spills Incidents database Provide DEC ID number(s): ☐ Yes - Environmental Site Remediation database Provide DEC ID number(s): ☐ Neither database Provide DEC ID number(s): ii. If site has been subject of RCRA corrective activities, describe control measures: iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes☐No If yes, provide DEC ID number(s): ☐ Yes☐No	 i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: 	
Yes - Environmental Site Remediation database Provide DEC ID number(s): Neither database Neither data	☐ Yes – Spills Incidents database Provide DEC ID number(s):	
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes☐No If yes, provide DEC ID number(s):	Yes - Environmental Site Remediation database Provide DEC ID number(s):	
If yes, provide DEC ID number(s):	ii. If site has been subject of RCRA corrective activities, describe control measures:	
		□Yes□No
iv. If yes to (1), (11) or (111) above, describe current status of site(s):		
	iv. If yes to (1), (11) or (111) above, describe current status of sne(s):	

ν. 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? > 5.0 feet	
b. Are there bedrock outcroppings on the project site?	☐ Yes Z No
If Yes, what proportion of the site is comprised of bedrock outcroppings?%	
c. Predominant soil type(s) present on project site: Erie 100	%
	%
	%
d. What is the average depth to the water table on the project site? Average: >5.0 feet	
e. Drainage status of project site soils: Well Drained: % of site	
✓ Moderately Well Drained: 100 % of site	
Poorly Drained % of site	
f. Approximate proportion of proposed action site with slopes: 2 0-10%: 84 % of site	
2 10-15%: 7 % of site	
✓ 15% or greater: 9% of site	
g. Are there any unique geologic features on the project site? If Yes, describe:	☐ Yes Z No
h. Surface water features. i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers,	∠ Yes□No
ponds or lakes)? ii. Do any wetlands or other waterbodies adjoin the project site?	∠ Yes□No
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?	☑ Yes □No
iv. For each identified regulated wetland and waterbody on the project site, provide the following information: • Streams: Name862-222, 862-223 Classification C, A	
Lakes or Ponds: Name Classification	
Lakes or Ponds: Name Classification Wetlands: NameUnnamed Federal Wetlands Approximate Size 0.79	5
 Wetland No. (if regulated by DEC) v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? 	□Yes ☑ No
If yes, name of impaired water body/bodies and basis for listing as impaired:	
i. Is the project site in a designated Floodway?	□Yes Z No
j. Is the project site in the 100 year Floodplain?	☐Yes Z No
k. Is the project site in the 500 year Floodplain?	□Yes Z No
l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? If Yes:	☐Yes Z No
i. Name of aquifer:	

m. Identify the predominant wildlife species that occupy or use the project site:	
See attached field inspection	
performed by Ecological Solutions	
n. Does the project site contain a designated significant natural community? If Yes:	☐ Yes Z No
i. Describe the habitat/community (composition, function, and basis for designation):	
i. Describe the habitate community (composition, function, and basis for designation).	
ii. Source(s) of description or evaluation:	
iii. Extent of community/habitat:	
Currently: acres	
Following completion of project as proposed: acres	
• Gain or loss (indicate + or -):	
	·
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as	☐ Yes Z No
endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened sp	ecies?
See attached field inspection by Ecological Solutions	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of	☐ Yes N o
special concern?	
See attached field inspection by Ecological Solutions	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing?	□Yes ☑ No
If yes, give a brief description of how the proposed action may affect that use:	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to	□Yes ☑ No
Agriculture and Markets Law, Article 25-AA, Section 303 and 304?	
If Yes, provide county plus district name/number:	
b. Are agricultural lands consisting of highly productive soils present?	□Yes Z No
i. If Yes: acreage(s) on project site?	
ii. Source(s) of soil rating(s):	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National	□Yes☑No
Natural Landmark?	
If Yes:	
i. Nature of the natural landmark:	
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:	
A Trade modern for the Artificial	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area?	□Yes☑No
If Yes:	
i. CEA name:	·
ii. Basis for designation:	
iii. Designating agency and date:	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? If Yes:	Yes 2 No
i. Nature of historic/archaeological resource: Archaeological Site Historic Building or District	
iii. Brief description of attributes on which listing is based:	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	□Yes Z No
g. Have additional archaeological or historic site(s) or resources been identified on the project site? If Yes: i. Describe possible resource(s):	□Yes ZNo
ii. Basis for identification:	
h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? If Yes:	∐Yes Z No
ž Ždentifiz regource:	
ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or etc.):	scenic byway,
iii. Distance between project and resource: miles.	
 i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? If Yes: 	☐ Yes Z No
i. Identify the name of the river and its designation:	
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	□Yes □No
F. Additional Information Attach any additional information which may be needed to clarify your project. If you have identified any adverse impacts which could be associated with your proposal, please describe those immeasures which you propose to avoid or minimize them.	ipacts plus any
G. Verification I certify that the information provided is true to the best of my knowledge. Applicant/Sponsor Name Kelly Libolt Date July 19, 2018 / Rev. Aug. 21, 2018	· · · · · ·
Signature Title Agent for Applicant	

APPENDIX A

Federal Threatened and Endangered Species Habitat Suitability
Assessment Report

Federal Threatened and Endangered Species Habitat Suitability Assessment Report

The Shoppes at Union Square - Phase 2 1217 Route 300 Town of Newburgh Orange County, NY

August 3, 2018

Prepared by:

Michael Nowicki

Ecological Solutions, LLC 1248 Southford Road Southbury, CT 06488 (203) 910-4716

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1.0 INTRODUCTION

The Applicant is proposing to Modify Phase 2 of the previously Approved Development Project. Phase 2 of the project included the construction of a single 18,102 sq. ft. Staples structure and associated parking and infrastructure. The current plan proposes to construct two retail buildings which are approximately 19,130 square feet in the same location as the proposed previously approved Staples building.

A Habitat Suitability Assessment was completed for five federally listed species including the dwarf wedgemussel (*Alasmidonta heterodon*), small whorled pogonia (*Isotria medeoloides*), Indiana bat (*Myotis sodalis*), Northern long-eared bat (*Myotis septentrionalis*), and bog turtle (*Glyptemys muhlenbergii*) and as part of the US Army Corps of Engineers (USACE) Nationwide Permit requirements for the project and US Fish and Wildlife Service species list for the site (*Attachment 1*). Field assessments were completed on May 18 and June 16, 2018 to determine whether suitable habitat for these species is present on the site. Habitat cover types were also observed and are described below.

TABLE 1
COVER TYPES IDENTIFIED ON THE SITE

HABITAT COVER TYPES			
NO.	DESCRIPTION	Coverage (acres)	DISTURBANCE (ACRES)
1	Wetland/ Tributary	2.5	0.4
2	Upland Forest	6.5	3.0
2	Previously Developed Area	2.39	2.39

2.0 HABITAT SUITABILITY ASSESSMENT/CONCLUSION

2.1 Dwarf wedgemussel

The dwarf wedge mussel is a small freshwater mussel that rarely exceeds 1.5 inches (38 mm) in length. It is brown or yellowish-brown in color. Adult mussels are filter-feeders, feeding on algae and other small suspended particles. They spend most of their time buried almost completely in the bottom of streams and rivers. Typical habitat for this mussel includes running waters of all sizes, from small brooks to large rivers. Bottom substrates include silt, sand and gravel, which may be distributed in relatively small patches behind larger cobbles and boulders. The river velocity is usually slow to moderate. Dwarf wedge mussels appear to select or are at least tolerant of relatively low levels of calcium in the water.

Conclusion - There is no potential habitat for this species on the site since the tributary is a Class C watercourse and is culverted at Orr Avenue and Route 300.

2.2 Small whorled pogonia

The small whorled pogonia is a member of the orchid family. It usually has a single grayish-green stem that grows about 10 inches tall when in flower and about 14 inches when bearing fruit. The plant is named for the whorl of five or six leaves near the top of the stem and beneath the flower. The leaves are grayish-green, somewhat oblong and 1 to 3.5 inches long. The single or paired greenish-yellow flowers are about 0.5 to 1 inch long and appear in May or June. The fruit, an upright ellipsoid capsule, appears later in the year. This orchid grows in older hardwood stands of beech, birch, maple, oak, and hickory that have an open understory. Sometimes it grows in stands of softwoods such as hemlock. It prefers acidic soils with a thick layer of dead leaves, often on slopes near small streams.

Conclusion - There is no potential habitat for this species since there is no older growth forest on the site but rather young woods with a thick dense understory.

2.3 Indiana bats

The Indiana bat typically hibernates in caves/mines in the winter and roosts under bark or in tree crevices in the spring, summer, and fall. Suitable potential summer roosting habitat is characterized by trees (dead, dying, or alive) or snags with exfoliating or defoliating bark, or containing cracks or crevices that could potentially be used by Indiana bats as a roost. The minimum diameter of roost trees observed to date is 2.5 inches for males and 4.3 inches for females. However, maternity colonies generally use trees greater than or equal to 9 inches dbh. Overall, roost tree structure appears to be more important to Indiana bats than a particular tree species or habitat type. Females appear to be more habitat specific than males presumably because of the warmer temperature requirements associated with gestation and rearing of young. As a result, they are generally found at lower elevations than males may be found. Roosts are warmed by direct exposure to solar radiation, thus trees exposed to extended periods of direct sunlight are preferred over those in shaded areas. However, shaded roosts may be preferred in very hot conditions. As

larger trees afford a greater thermal mass for heat retention, they appear to be preferred over smaller trees.

Streams associated with floodplain forests, and impounded water bodies (ponds, wetlands, reservoirs, etc.) where abundant supplies of flying insects are likely found provide preferred foraging habitat for Indiana bats, some of which may fly up to 2-5 miles from upland roosts on a regular basis. Indiana bats also forage within the canopy of upland forests, over clearings with early successional vegetation (e.g., old fields), along the borders of croplands, along wooded fencerows, and over farm ponds in pastures. While Indiana bats appear to forage in a wide variety of habitats, they seem to tend to stay fairly close to tree cover.

Conclusion - Approximately 3 acres of young growth forest will be impacted as a result of the proposed expansion. The trees in this area include maple, oak, black cherry, quaking aspen, and ash all in the 4-12 inch dbh range. Although there were no likely roost or maternal colony trees observed the Applicant will only conduct tree clearing activities between October 1 and April 1. A note has been placed on the plan "To avoid impacts to Indiana and Northern long eared bats during construction tree-clearing will be completed between October 1st and April 1st so that the project is not likely to adversely affect these species".

2.4 Northern long-eared bat

Winter Habitat: Same as the Indiana bat northern long-eared bats spend winter hibernating in caves and mines, called hibernacula. They typically use large caves or mines with large passages and entrances; constant temperatures; and high humidity with no air currents. Specific areas where they hibernate have very high humidity, so much so that droplets of water are often seen on their fur. Within hibernacula, surveyors find them in small crevices or cracks, often with only the nose and ears visible.

Summer Habitat: During summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees. Males and non-reproductive females may also roost in cooler places, like caves and mines. This bat seems opportunistic in selecting roosts, using tree species based on suitability to retain bark or provide cavities or crevices. It has also been found, rarely, roosting in structures like barns and sheds.

Feeding Habits: Northern long-eared bats emerge at dusk to fly through the understory of forested hillsides and ridges feeding on moths, flies, leafhoppers, caddisflies, and beetles, which they catch while in flight using echolocation. This bat also feeds by gleaning motionless insects from vegetation and water surfaces.

Conclusion - The northern long eared bat requires/occupies practically the same habitat niche as the Indiana bat. Impacts to habitat and mitigation would be consistent with the recommendations for the Indiana bat.

2.5 Bog turtle

According to the U.S. Fish and Wildlife Service, in the 2001 Bog Turtle (*Clemmys muhlenbergii*), Northern Population Recovery Plan. Hadley, Massachusetts. 103 pp. last revised on April 13, 2006 bog turtle habitat is recognized by three criteria:

- 1. **Suitable hydrology**. Bog turtle wetlands are typically spring-fed with shallow surface water or saturated soils present year-round, although in summer the wet area(s) may be restricted to near spring head(s). Typically these wetlands are interspersed with dry and wet pockets. There is often subsurface flow. In addition, shallow rivulets (less than 4 inches deep) or pseudo-rivulets are often present.
- 2. **Suitable soils**. Usually a bottom substrate of permanently saturated organic or mineral soils. These are often soft, mucky-like soils (this does not refer to a technical soil type); you will usually sink to your ankles (3-5 inches) or deeper in muck, although in degraded wetlands or summers of dry years this may be limited to areas near spring heads or drainage ditches. In some portions of the species' range, the soft substrate consists of scattered pockets of peat instead of muck.
- 3. **Suitable vegetation**. Dominant vegetation of low grasses and sedges (in emergent wetlands), often with a scrub-shrub wetland component. Common emergent vegetation includes, but is not limited to: tussock sedge (*Carex stricta*), soft rush (*Juncus effusus*), rice cut grass (*Leersia oryzoides*), sensitive fern (*Onoclea sensibilis*), tearthumbs (*Polygonum spp.*), jewelweeds (*Impatiens spp.*), arrowheads (*Saggitaria spp.*), skunk cabbage (*Symplocarpus foetidus*), panic grasses (*Panicum spp.*), other sedges (*Carex spp.*), spike rushes (*Eleocharis spp.*), grass-of-Parnassus (*Parnassia glauca*), shrubby cinquefoil (*Dasiphora fruticosa*), sweet-flag (*Acorus calamus*), and in disturbed sites, reed canary grass (*Phalaris arundinacea*) or purple loosestrife (*Lythrum salicaria*). Common scrub-shrub species include alder (*Alnus spp.*), red maple (*Acer rubrum*), willow (*Salix spp.*), tamarack (*Larix laricina*), and in disturbed sites, multiflora rose (*Rosa multiflora*). Some forested wetland habitats are suitable given hydrology, soils and/or historic land use. These forested wetlands include red maple, tamarack, and cedar swamps.

Conclusion - The wetland on the site is a small densely vegetated forested wetland that is dry at the surface. This surface flow has inconsistent hydrology and no groundwater seeps. There is no potential bog turtle habitat on or in the vicinity of the site.

3.0 PHOTOGRAPHS

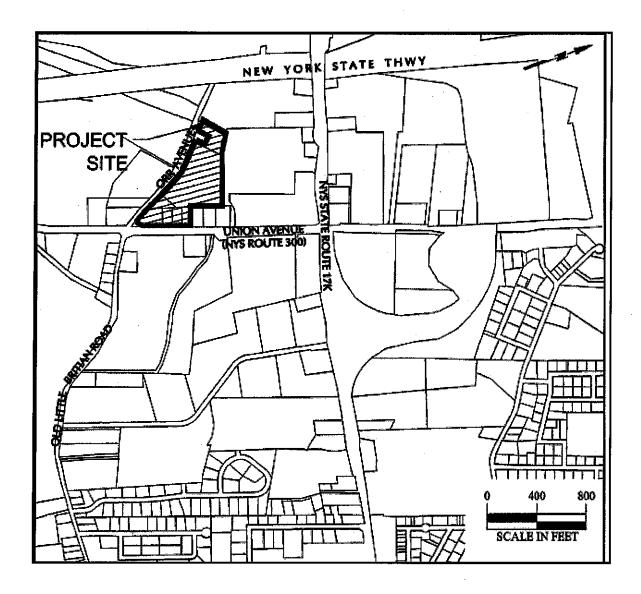
Wooded area on the site



Orr Avenue and The Shoppes at Union Square site



Figure 1 Location Map



USFWS List



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New York Ecological Services Field Office 3817 Luker Road Cortland, NY 13045-9385

Phone: (607) 753-9334 Fax: (607) 753-9699 http://www.fws.gov/northeast/nyfo/es/section7.htm



August 03, 2018

In Reply Refer To:

Consultation Code: 05E1NY00-2018-SLI-2934

Event Code: 05E1NY00-2018-E-08715 Project Name: The Shoppes at Union Square

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: http://www.fws.gov/northeast/nyfo/es/section7.htm

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/

<u>eagle_guidance.html</u>). Additionally, wind energy projects should follow the Services wind energy guidelines (<u>http://www.fws.gov/windenergy/</u>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office 3817 Luker Road Cortland, NY 13045-9385 (607) 753-9334

Project Summary

Consultation Code: 05E1NY00-2018-SLI-2934

Event Code:

05E1NY00-2018-E-08715

Project Name:

The Shoppes at Union Square

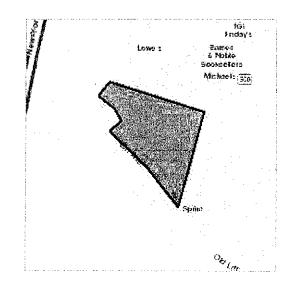
Project Type:

DEVELOPMENT

Project Description: Retail Stores

Project Location:

Approximate location of the project can be viewed in Google Maps: https:// www.google.com/maps/place/41.50137407961384N74.07245129277327W



Counties: Orange, NY

Endangered Species Act Species

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME

STATUS

Indiana Bat *Myotis sodalis*

Endangered

There is final critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

Northern Long-eared Bat Myotis septentrionalis

Threatened

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Reptiles

NAME

STATUS

Bog Turtle Clemmys muhlenbergii

Threatened

Population: Wherever found, except GA, NC, SC, TN, VA No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6962

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/182/office/52410.pdf

Habitat assessment guidelines:

https://ecos.fws.gov/ipac/guideline/assessment/population/182/office/52410.pdf

Event Code: 05E1NY00-2018-E-08715

Clams

NAME

STATUS

Dwarf Wedgemussel Alasmidonta heterodon

Endangered

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/784

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/363/office/52410.pdf

Flowering Plants

NAME

STATUS

Small Whorled Pogonia Isotria medeoloides

Threatened

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1890

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/742/office/52410.pdf

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

APPENDIX B Creighton Manning Traffic Memo



Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

400 Columbus Avenue, Suite 180E Valhalla, NY 10595 T; 914.347.7500 F: 914.347.7266 www.maserconsulting.com

MEMORANDUM

To:

John Ewasutyn

From:

A. Peter Russillo, P.E., PTOE

Date:

August 8, 2018

Re:

Shoppes at Union Square

Orr Avenue

Town of Newburgh, Orange County, NY

Trip Generation Comparison MC Project No. 17000583B

We are in receipt of the comments provided to you and the Planning Board by Ken Wersted, P.E. dated July 27, 2018 on our July 18, 2018 submission relative to trip generation estimates. We offer the following explanation:

Our evaluation utilized average trip generation rates for the retail portion of the project (17,475 s.f.) and also used average rates for the Smoothie King establishment (1,655 s.f.) assuming it would generate traffic similar to a fast-food restaurant with a drive-thru window.

Mr. Westred suggested using the ITE regression equation for the retail component in lieu of the average rate because it would provide a better correlation to the project size. The result would yield a higher level of generated trips.

Mr. Wersted had also noted that the Smoothie King would likely generate less traffic than a typical fast-food restaurant.

We have obtained information from Smoothie King representatives that indicates approximately 145 trips on average are generated during a typical weekday and some 160 trips on average are generated during a typical Saturday.

During the PM Peak Hour, the Smoothie King could be expected to generate approximately 6.5% of their daily volume equaling 20 total trips (entering and exiting) and some 10% of the Saturday daily volume equaling some 32 total trips (entering and exiting).

Applying the regression equation to the retail component (17,475 s.f.), the total retail generation would equate to 149 trips during the weekday PM Peak Hour and some 156 trips during the Saturday Peak Hour. Combining the above-mentioned Smoothie King trip generation data with



Mr. John Ewasutyn MC Project No.17000583B August 8, 2018 Page 2 of 2

the retail data, the total site would generate 169 weekday PM Peak Hour trips and some 188 Saturday Peak Hour trips.

Comparing these values to the original traffic volume projections (152 PM Peak Hour trips and 206 Saturday Peak Hour trips), the current proposal would generate an additional 17 PM Peak Hour trips and a reduction of 18 trips during the Saturday Peak Hour. We believe these changes are inconsequential with respect to future traffic operations.

R:\Projects\2017\17000583B_Shoppes at Union Square\Correspondence\OUT\180808APR_Ewasutyn.docx

APPENDIX B

Ecological Solutions Wetlands Correspondence

Connecticut 1248 Southford Road Southbury, CT 06488 Phone (203) 910-4716 ecolsol@aol.com

August 14, 2018

Jerame Secaras, PE LEED AP Langan Engineering 300 Kimball Drive, 4th Floor Parsippany, NJ 07054

Re: Federal Wetland Assessment
The Shoppes at Newburgh (Phase 2) and (Phase 3) - 1217 Route 300
Town of Newburgh, Orange County, New York

Dear Jerame:

Ecological Solutions, LLC completed a wetland assessment on August 8, 2018 for Phase 2 of the project known as The Shoppes at Newburgh located at 1217 Route 300. There are no Federal - US Army Corps of Engineers (USACE) or State - New York State Department of Environmental Conservation (NYSDEC) wetlands located on Phase 2. The assessment was completed in accordance with the Army Corps of Engineers (USACE) Wetlands Delineation Manual (January 1987), Routine Determination Method and Northcentral/Northeast supplement. There is no New York State Department of Environmental Conservation (NYSDEC) regulated wetland at this location.

Phase 2 of the site was assessed for Federal wetlands based upon the identification of the three mandatory criteria for wetland determination as outlined in the 1987 Federal Manual and supplement: dominant hydrophytic vegetation, hydric soils, and evidence of wetland hydrology. The Routine Methodology procedure for wetland determination was used. Transects consisting of at several sample points were walked. Dominant vegetation around each sample point was identified and its percent cover quantified. The areas were checked in detail for the presence of wetland hydrologic indicators. Soil profiles were then observed and characterized at each point and no hydric soils exist.

The detailed field investigation included:

- 1. Identification of vegetation species to determine whether there was a dominance of hydrophytic plants and areas containing transitional but primarily wetland-oriented species.
- 2. Determination of soil features for hydric (poorly and very poorly drained) natural soils.
- 3. Observation of site features displaying evidence of wetland hydrology based on the presence of inundated areas, apparent high seasonal water tables, and evidence of saturation within 12 inches of the surface (considered the root zone) during sufficient periods during the growing season to provide for anaerobic/hydric soil conditions.

Based on observed field conditions there is no federal wetland located on Phase 2 of the site.

In addition a wetland delineation was completed for Phase 3 on August 8, 2018 and a federal wetland area was delineated on the site and drains to the tributary that flows through the site. This tributary is a Class "C" watercourse and is not regulated by the NYSDEC under Article 15 Protection of Waters (*Attachment*). The wetland and tributary are however regulated by the USACE.

If you need any additional information, please contact me.

Sincerely,

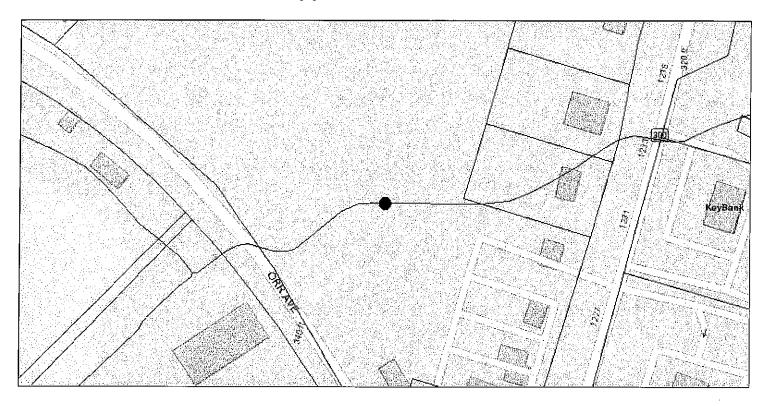
ECOLOGICAL SOLUTIONS, LLC

Michael Nowicki

Biologist

Attachment - NYSDEC Environmental Resource Mapper

Environmental Resource Mapper



The coordinates of the point you clicked on are:

UTM 18

Easting: 577

577452.816

Northing:

4594789.957

Longitude/Latitude

Longitude:

-74.072

Latitude:

41.501

The approximate address of the point you clicked on is:

12-98 Orr Ave, Newburgh, New York, 12550

County: Orange Town: Newburgh

USGS Quad: NEWBURGH

DEC Region

Region 3:

(Lower Hudson Valley) Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester counties. For more information visit http://www.dec.ny.gov/about/607.html.

Waterbody Classifications for Rivers/Streams

Regulation: 862-222

Standard: C Classification: C

Rare Plants and Rare Animals

This location is in the vicinity of Rare Animals

This location is in the vicinity of State-Listed Bats

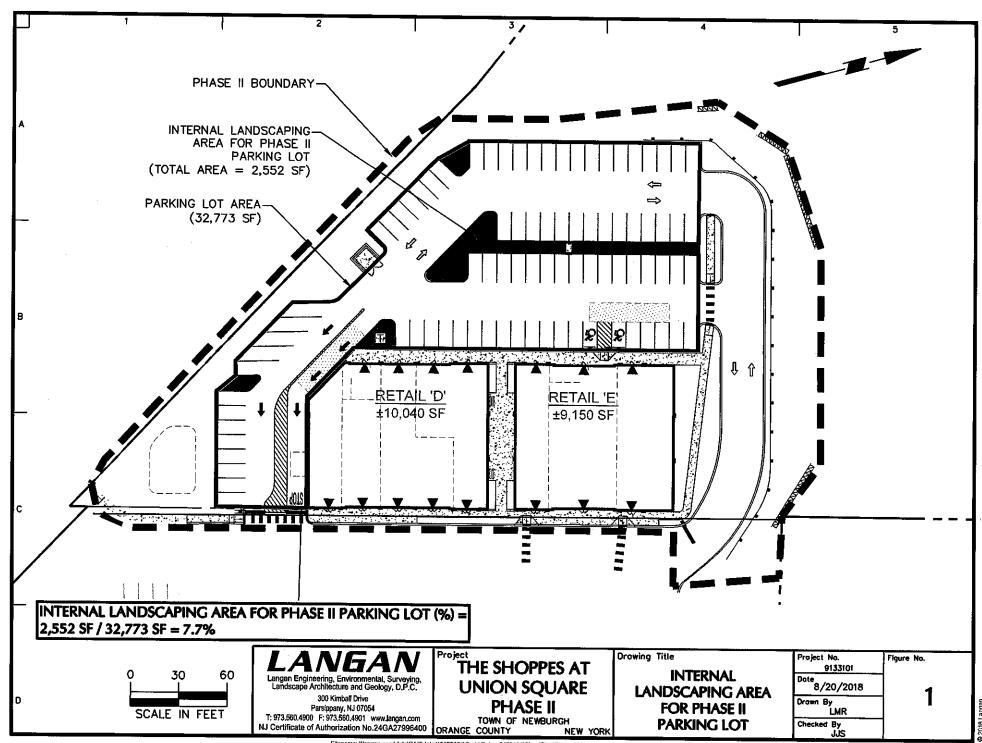
If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

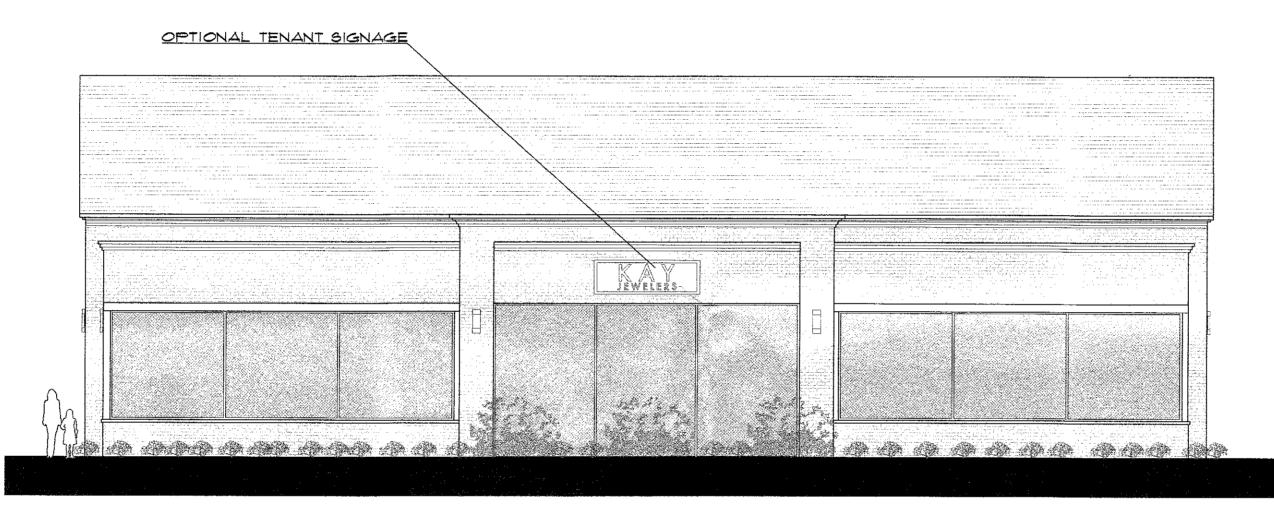
Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.





Zone: IB - Interchange Business District - Town of Newburgh						
	SIGNAGE					
Permanent Wall Signage	Regulation	Allowed	Proposed			
Maximum Sign Area of Building Front Wall	2 SQ. FT. SIGNAGE PER LINEAR FT OF BUILDING	430 SQ. FT. 53.75 PER SIGN	200 SQ. FT. 25.00 PER SIGN			
Maximum Sign Area of Building Side Walls	I SQ. FT. SIGNAGE PER LINEAR FT OF BUILDING	90 SQ. FT.	25 SQ. FT.			
Maximum Sign Area of Building Rear Walls	I SQ. FT. SIGNAGE PER LINEAR FT OF BUILDING	215 SQ. FT.	7 SQ. FT. .89 PER SIGN PLAQUE			



Right Alley Elevation

Scale: 1/8" = 1'-0"

OPTIONAL TENANT SIGNAGE

TENANT

TENANT

2 Left Alley Elevation
Scale: 1/8" = 1'-0"

Consultants:		PROGRESS DRAWINGS DATE July 13, 2018 Prior dated documents voided by this issue	NOT FOR CONSTRUCTION
	Revisions: Date Description Drawn Check		
Union Square	Drawings on this page:		hese drawings is a violation of Section 7209 (2) of The New York State
The Shoppes at	Nick & Nick Town of Newburgh Orange County, NY	FIFTY-FIVE	Unauthorized addition or alteration of these drawings Education Law
DeGraw & E copyright pro Code, Chapt Architectural but is not lim	DeHaan Architects LLP © Copy tection as an "Architectural Wo er 1, Circular 92 §102, as ame Works Copyright Protection Act (nited to the overall form as we	NORTH STREET SUITE 101 MIDDLETOWN NEW YORK 10940 PHONE 845.343 FAX 845.956.9 rright. These documents are wise under Title 17 of the Uninded December 1990 and know (AWCPA) in 1990. The protectic as the arrangement and come is the arrangement and come.	3 • 8 5 1 0 5 1 3 subject to sted States wn as the on includes
spaces and documents, of any other particular particula	elements of design. Under super work represented, can legality urpose without the expressed P is a violation of Federal Copyrism. The Shat Union Town of Nev	result in the penalties provide written consent of DeGraw aght Law. All rights reserved. OPPES Square	e of these d. Use for & DeHaan
	Elevat Alley		
Seal		Date: Drawn By: Checked By: Drawing No. A10	KEM TJD



1 A102

Front Entry Elevation

Scale: 1/8" = 1'-



A102

Back Elevation

Scale: 1/8" = 1'-0"



Right Elevation
A102 Scale: 1/8" = 1'-0"



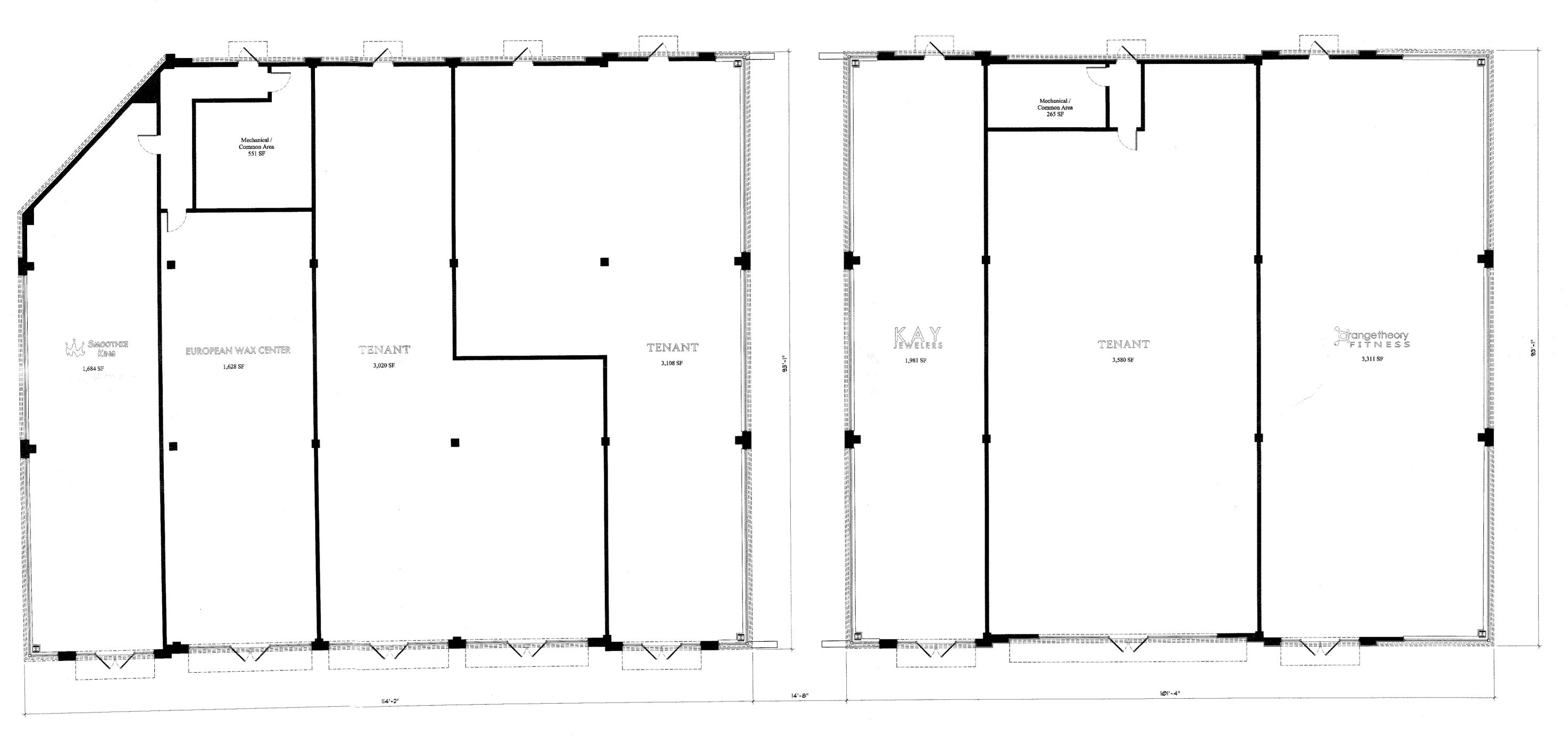
4 Left Elevation
Scale: 1/8" = 1'-0"

Square The Shoppes at Union DEGRAM

NORTH STREET
SUITE 101

MIDDLETOWN
NEW YORK
10940

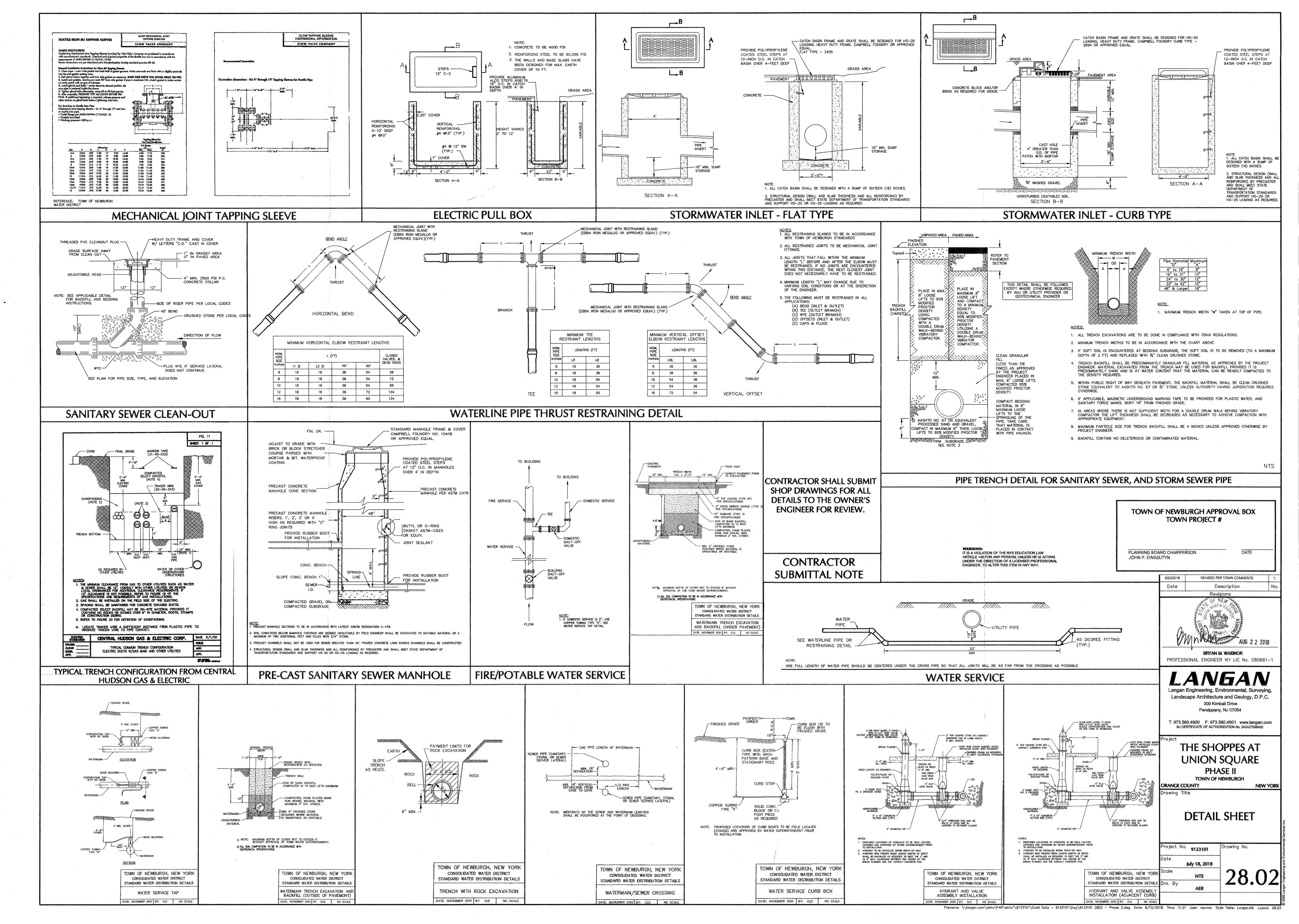
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FAX 845.956.9513 DeGraw & DeHaan Architects LLP © Copyright. These documents are subject to copyright protection as an "Architectural Works" under Title 17 of the United States Code, Chapter 1, Circular 92 \$102, as amended December 1990 and known as the Architectural Works Copyright Protection Act (AWCPA) in 1990. The protection includes but is not limited to the overall form as well as the arrangement and composition of spaces and elements of design. Under such protection, unauthorized use of these documents, or work represented, can legally result in the penalties provided. Use for any other purpose without the expressed written consent of DeGraw & DeHaan Architects LLP is a violation of Federal Copyright Law. All rights reserved. Project The Shoppes
at Union Square
Town of Newburgh, NY **Elevations** Drawn By: Checked By: Drawing No.

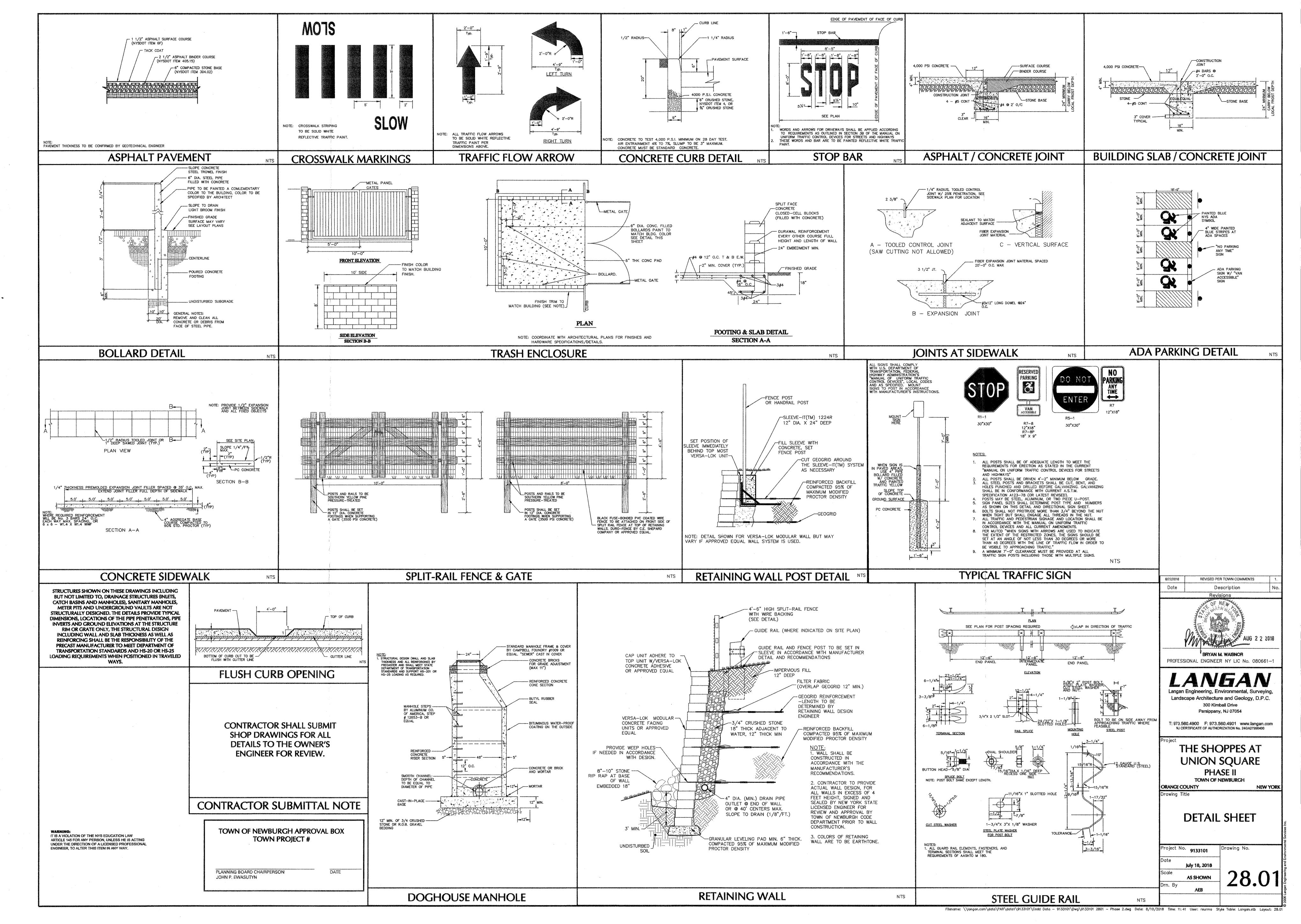


Sevisions:
Data
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at Union Square
Town of Newburgh, NY Key Plan Drawn By: Checked By:

(1) (A101)

Key Plan





LIGHTING NOTES:

- I. 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 20 FT. LEFT TO RIGHT AND 20 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.

COMPLIANCE

- 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 FOOTINGS

- 10. 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.
- 11. 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 UNSATISFACTORY CONDITIONS.
- 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 FIXTURES

- 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
- 18. CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE

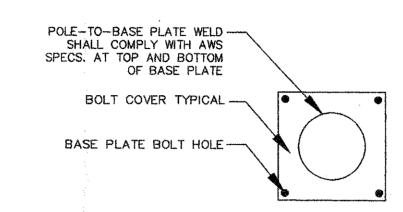
REQUIREMENTS FOR ALTERNATES

- 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 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. . THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE F. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE

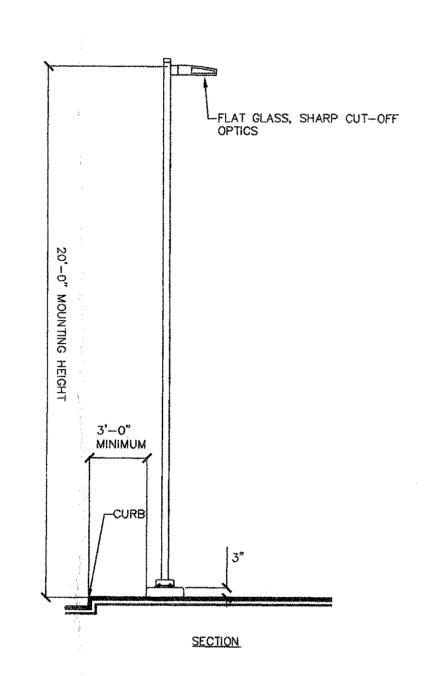
FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.

PHOTOMETRIC LIGHTING TEMPLATE; __ 0.25 FOOTCANDLES ∠−0.50 FOOTCANDLES \ FIXTURE~ @

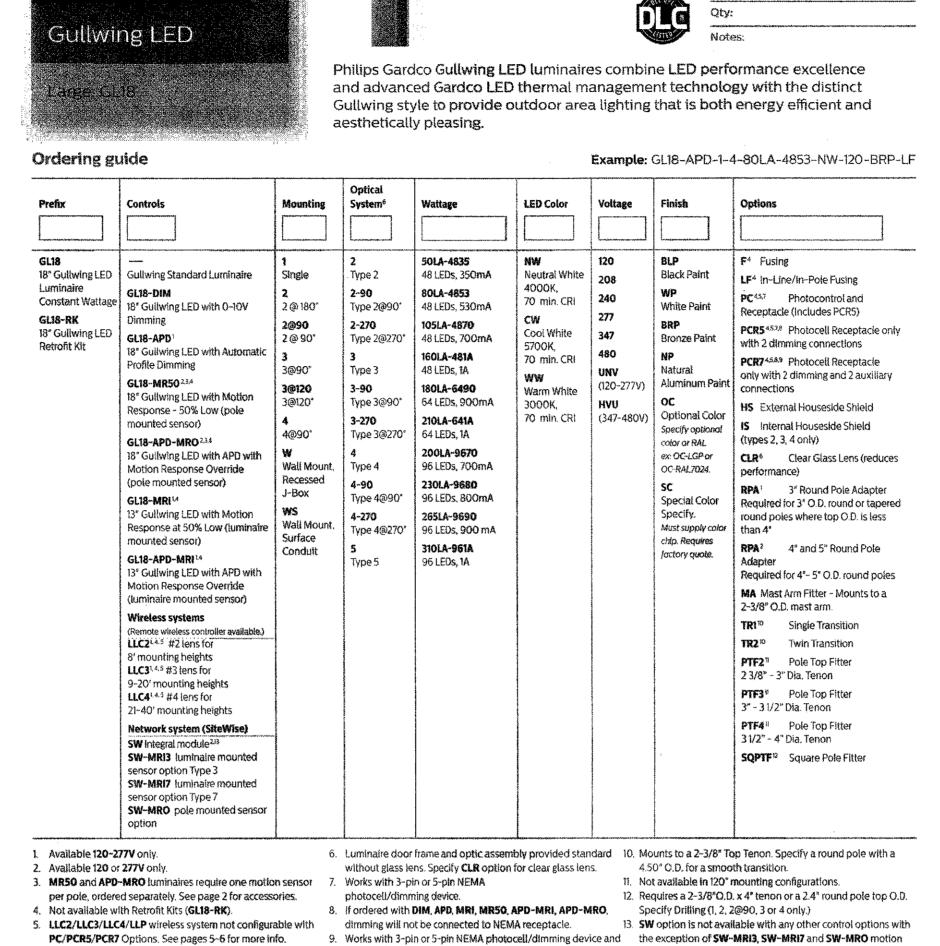
NOTE: THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE AND DOES NOT REPRESENT LIGHT COMING FROM OTHER SOURCES.



PLAN



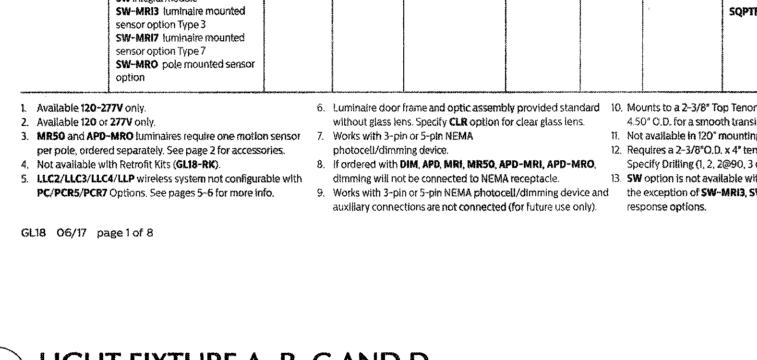
LIGHT FIXTURE AND POLE

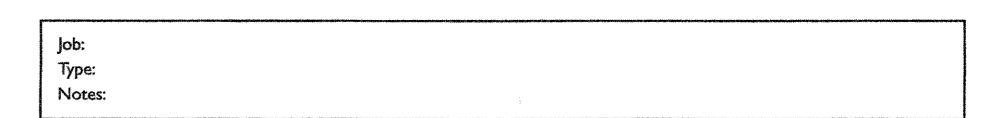


G GARDCO

Site & Area

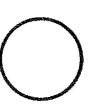
PHILIPS





Tapered Round Aluminum - Cast Base

The Philips Gardco TRA tapered round aluminum pole consists of a one-piece design fabricated aluminum tubing circumferentially welded to a structural quality hot rolled carbon steel plate. The poles are finished with either Architectural Class I anodizing or electrostatically applied TGIC polyester powdercoat. All poles include anchor bolts, hand hole, ground lug and top cap.



PREFIX	BASE		HEIGHT		DRILLIN	
TRA	СВ	Fixed Cast Base	8' 10' 12' L,M ¹ 14' L,M ¹ 16' L,H ¹	25' L,H ¹ 28' L,H ¹ 30' L,H ¹ 35' L,H ¹ 39' L,H ¹	D1 D2 D2@90 D3	I Way 2 Way 2 Way at 90° 3 Way 3 Way at 120°

2 3/8" OD Tenon on wind load factors. L=Light; T4 4" OD Tenon M = Medium; H = Heavy.**OPTIONS** FINISH Bronze Paint **DR** Duplex Receptacle

1. Refers to relative strength based

BLP Black Paint GFCI Ground Fault Receptacle White Paint VDA Vibration Dampener Natural Aluminum Paint Nipples and Couplings **Bronze Anodized** Indicate size (1/2", 3/4", 1", 1 1/4", 1 1/2".) Indicate Black Anodized height above base and orientation to hand hole. See Natural Anodized Pole Orientataion Information on Page 4.

Optional Color Paint

Specify Optional Color or CL Coupling - Internal thread RAL ex: OC-LGP or OC-RAL7024. Special Color Paint Single Mount Bullhorn Brackets Specify. Must supply color chip. Indicate height above base and orientation to hand hole. See Pole Orientation Information on Page 4. A15BH-19 Single - 1.9" OD

A15BH-24 Single - 2.4" OD A215BH-19 2-Tenon - 1.9" OD

NL Nipple - External thread

A215BH-24 2-Tenon - 2.4" OD

Motion Response Provisions Provision for Gardco HID Motion Response System Minimum Pole Height is 18', Includes a 1/2" coupling placed 180° to the hand hole, 12' above the pole base.

Motion Sensor Mounting Provision for LED Luminaires available with Motion Response Minimum Pale Height is 18'. Includes a special hand hole with 1/2" coupling placed in the cover plate, 180° to the hand hole, 15' above the pole base.

1611 Clovis Barker Road, San Marcos, TX 78666 (800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com © 2011 Koninklijke Philips Electronics N.V. All Rights Reserved. Philips Gardoo reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program. 79415-24/0611

PHILIPS

LIGHT FIXTURE A, B, C AND D LIGHT POLE

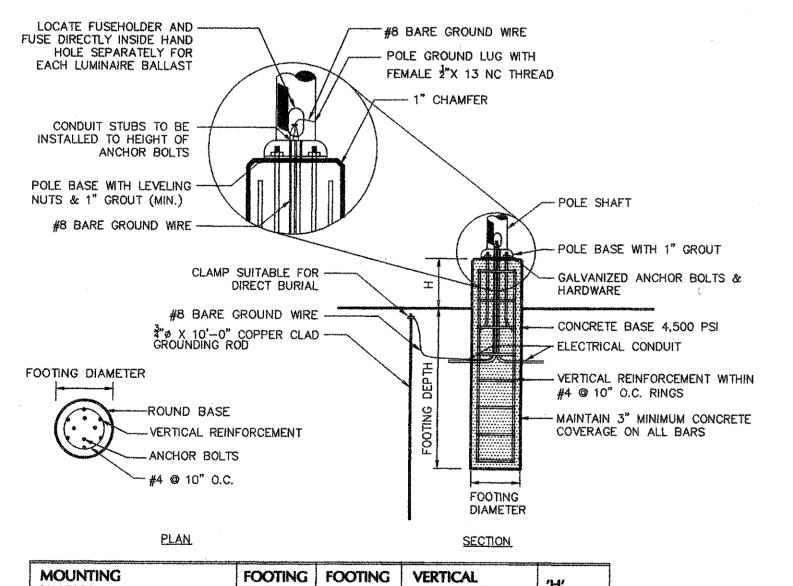
LED

Project:

Cat No:

Location:

Page I of 4



MOUNTING	FOOTING	FOOTING	VERTICAL	'H'
HEIGHT	DEPTH	DIAMETER	REINFORCEMENT	
20'-0"	4'-6"	2'-0"	6 #5 BARS	3"

- 1. 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.
- 2. 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. 3. CONTRACTOR TO ENSURE CONCRETE POLE BASES ARE POURED / PLACED ABSOLUTELY VERTICAL & LEVEL. 4. POLE BASE SHALL BE ONE CONTINUOUS POUR. EXPOSED PORTION OF BASE SHALL BE HAND-RUBBED SMOOTH.
- 5. CONTRACTOR TO COMPACT SUBGRADE AROUND POLE BASE PER EARTHWORK SPECIFICATIONS / GEOTECH REPORT. 6. 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.

LIGHT POLE BASE

8/22/2018 REVISED PER TOWN COMMENTS Date Description Revisions NY Registered Landscape Architect No. 001901-

Langan Engineering, Environmental, Surveying Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054

T: 973,560,4900 F: 973,560,4901 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

THE SHOPPES AT **UNION SQUARE** TOWN OF NEWBURGH

Drawing Title LIGHTING SCHEDULE, NOTES,

AND DETAILS

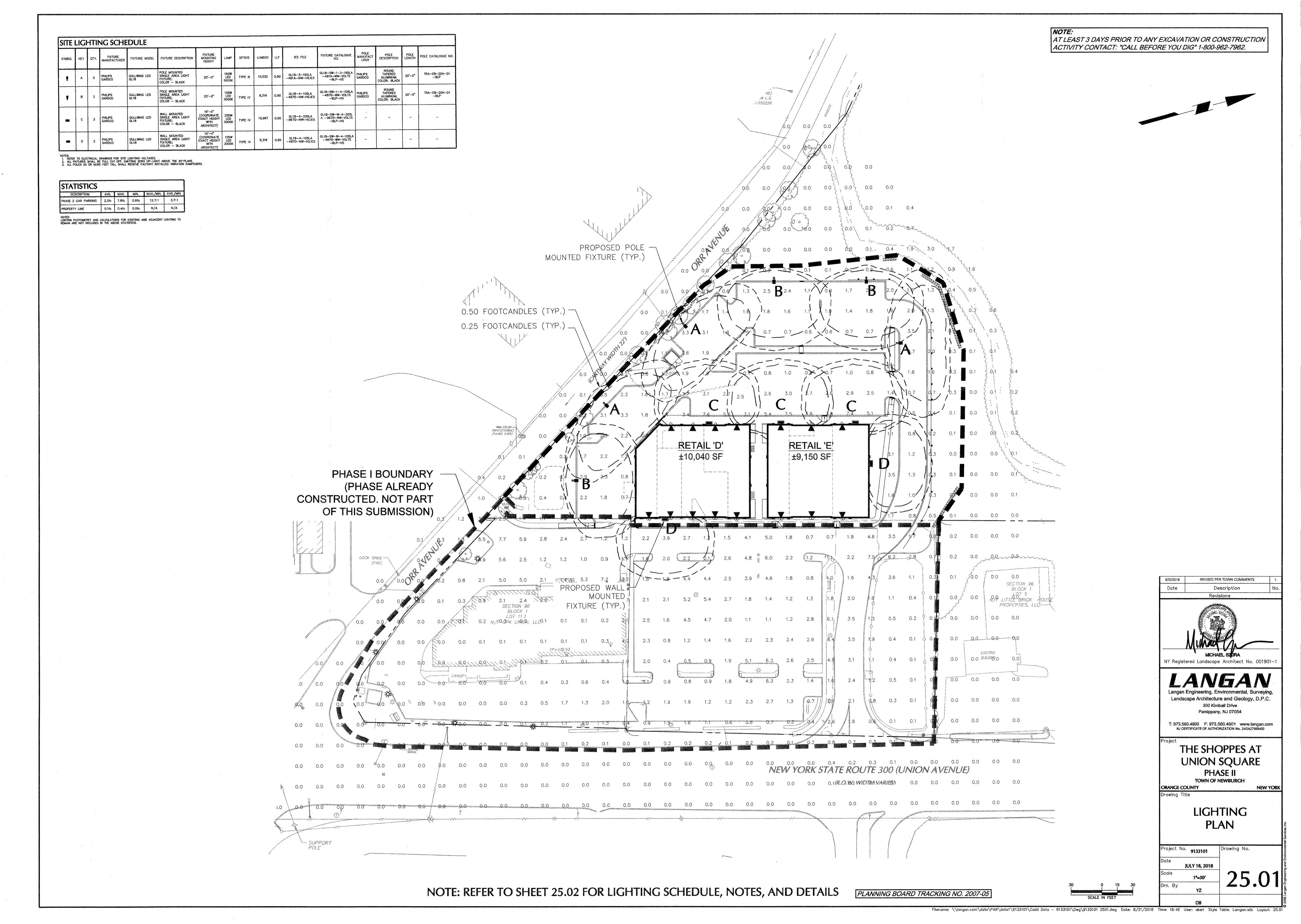
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ORANGE COUNTY

NEW YORK

PLANNING BOARD TRACKING NO. 2007-05



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. . 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 NURSERY AND LANDSCAPE ASSOCIATION. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH
- AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION. . 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 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. ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS SPECIFIED. ANY TREE THAT LOSES THE MAIN LEADER SHALL BE
- 4. THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.

ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.

- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND SUBGRADE DRAINAGE OR PERCOLATION CHARACTERISTICS, WHETHER THE SUBGRADE SOILS ARE EXISTING TO REMAIN OR IMPORTED AND PLACED. CONTRACTOR TO ENSURE POSITIVE VERTICAL DRAINAGE THROUGHOUT PLANTED AREAS. DISCREPANCIES SHALL BE ADDRESSED WITH THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PURCHASING PLANT MATERIALS.
- 6. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE FINISH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER. 7. 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.
- 8. ALL FENCE AND GUIDE RAIL INSTALLATIONS SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE
- . PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF CONSTRUCTION, NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.
- 10. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL
- UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION. 1. 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 OWNER,
- TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL. 12. 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
- 13. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE 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.
- 14. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, MISSING, 25% OR MORE DEAD, WHICH DO NOT DEVELOP FROM PLANTING STOCK, THAT APPEAR UNHEALTHY OR UNSIGHTLY AND/OR HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES DEAD, OR REJECTED FOR ANY OTHER REASON (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTL REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
- 16. DELIVERY, STORAGE, AND HANDLING
 A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY, AND
- 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
- 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 MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE
- . ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FIN GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND UNEVEN SURFACES PRIOR TO
- 18. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE ANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURE 19. CONTRACTOR'S GUARANTEE: ALL PLANTINGS AND PLANTING AREAS SHALL BE PERMANENTLY MAINTAINED. 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, PRUNING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE DURATION OF THE GUARANTEED PERIOD. 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.
- 20. 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
- 11. 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.
- 22. 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.
- 23. ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NO COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH FROM A LOCAL SOURCE HARVESTED IN A SUSTAINABLE MANNER THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST. MULCH SHALL BE A FIBROUS DOUBLE SHREDDED HARDWOOD MULCH. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK, FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN SHALL GOVERN.
- 25. LANDSCAPE PUNCH LIST SITE VISITS TO BE PERFORMED BY THE PROJECT LANDSCAPE ARCHITECT, IF UNDER CONTRACT FOR SUCH WORK, WILL NOT BE SCHEDULED UNTIL CONFIRMATION IS RECEIVED THAT ALL PROPOSED LANDSCAPE ITEMS HAVE BEEN INSTALLED, OR DEFICIENCIES NOTED IN THE PRIOR PUNCH LIST REPORT HAVE BEEN CORRECTED. THE PUNCH LIST SITE VISIT WILL THEN BE PERFORMED WITHIN 10 BUSINESS DAYS.

PLANTING SOIL SPECIFICATIONS

I, 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.

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 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 ROSION. AFTER MIXING, SOIL MATERIALS SHALL BE COVERED WITH A TARPAULIN UNTIL TIME OF ACTUAL USE. 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 a. PARTICLE SIZE ANALYSIS - LOAMY SAND: 70-85% SAND, 15-30% SILT AND 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

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

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

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

a. Ground Limestone (with a min. of 88% of Calcium and Magnesium Carbonates) used pending results of soil - 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. 4. 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. 5. CLEAN SOIL FILL IN LANDSCAPE AREAS; 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.

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") MINIMUM DEPTH PLANTING SOIL LAYER IN TREE

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.

SOIL CONDITIONING:

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

B. ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

d. 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 WEND STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.0. PEAT MOSS MAY NOT BE USED AS OPENALLY 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 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.

LAWN SEED MIX

- PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2"
- THE FOLLOWING SEED MIX SHALL BE SOWN AT THE RATES AS DEPICTED: 1 1/2 LBS./1,000 SF
- 1 1/2 LBS./1,000 SF SPREADING FESCUE 1 LBS./1,000 SF
- S. SEEDED LAWN AREAS SHALL BE MULCHED TO PRESERVE SOIL MOISTURE AND PREVENT EROSION DURING THE ESTABLISHMENT PERIOD UNTIL A STAND OF COVER IS ACCEPTED BY THE OWNER. STANDARD MULCH MAY INCLUDE HYDROMULCH, SALT HAY OR SMALL GRAIN STRAW ANCHORED WITH TACKIFIER AS NECESSARY. AREAS PRONE TO EROSION SHALL BE PROTECTED AS NECESSARY WITH BIODEGRADABLE EROSION CONTROL MATERIALS IN ADDITION TO THE
- SEEDING DATES FOR THIS MIXTURE SHALL BE AS FOLLOWS: SPRING: APRIL 1 - MAY 31 FALL: AUGUST 16 - OCTOBER 31
- 5. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

STANDARD MULCH. ALL MULCH MATERIALS AND HYDROSEED/MULCH MIX MUST BE REMOVED FROM ANY ADJACENT

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 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.

- 1. SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT SPECIFICATIONS. 2. AFTER THE SEEDBED IS PREPARED, SEED IS INSTALLED, AND MULCH IS APPLIED, WATER LIGHTLY TO KEEP THE TOP 2 INCHES OF OIL CONSISTENTLY MOIST, NOT SATURATED. AT NO TIME SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE
- 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.
- 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.

SOD SPECIFICATIONS (IF USED):

- SOD IS TO BE A FESCUE/BLUEGRASS BLEND APPROXIMATELY 70/30% SOD IS TO BE INDIGENOUS TO THE AREA AND BE FURNISHED BY A REPUTABLE GROWER WITH A MINIMUM 5 YEARS EXPERIENCE.
- PRIOR TO SODDING ALL AREAS ARE TO BE TOPSOILED, FINE GRADED, RAKED, WATERED LIGHTLY, AND FERTILIZED WITH A STARTER FERTILIZER.
- 3. ALL STONES GREATER THAN 2" DIAMETER SHALL BE REMOVED.
- SOD TO BE INSTALLED PERPENDICULAR TO ALL SLOPED AREAS. SOD STRIPS TO BE LAID OUT SO JOINTS ARE NOT CLOSER THAN ONE FOOT (1'-0") FROM EACH OTHER.
- 5. SOD IS TO BE WATERED AT A RATE OF AT LEAST ONE AND A HALF INCHES ($1\frac{1}{2}$ ") PER WEEK UNTIL ROOT MASS MENDS WITH SOIL AFTER THIS HAS OCCURRED NORMAL WATERING OF AT LEAST ONE INCH (1") PER
- 6. ALL SOD AREAS ARE TO BE ROLLED IF ANY HEAVING OR DEPRESSIONS OCCUR.

COMPACTED SOIL LOOSENING 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. LOOSEN SUBRADE SOILS TO A DEPTH OF 18 INCHES. IN ADDITION, IMPORTED OR AMMENDED EXISTING SOILS SHALL BE MIXED WITH SUBGRADE SOILS WHERE THEY MEET IN ORDER TO

MEADOW SEEDING NOTES: I. <u>MEADOW SEED MIX 'A'</u> ERNST SEED MIX ERNMX-168 "NORTHEAST PERENNIAL & ANNUAL WILDFLOWER MIX"

COREOPSIS TINCTORIA LINUM GRANIFLORUM RUBRUM CHEIANTHUS ALLIONII COSMOS SUPHUREUS **DELPHINIUM AJACIS** GYPSOPHILA ELEGANS HESPERIS MATRONALIS LINARIA MORACCANA RUDBECKIA HIRTA CHRYSANTHEMUM MAXIMUM

SILENE ARMERIA

ECHINACEA PURPUREA

GAILLARDIA ARISTATA

RUDBECKIA TRILOBA

GAILLARDIA PULCHELLA

PAPAVER RHOEAS, SHIRLEY MIX

BACHELOR'S BUTTON TALL MIXED/CONEFLOWER LANCE LEAVED COREOPSIS SULPHUR COSMOS ROCKET LARKSPUR ANNUAL BABY'S BREATH DAME'S ROCKET SPURRED SNAPDRAGON-NORTHERN LIGHTS BLACK-EYED SUSAN EWIS PERENNIAL BLUE FLAX CORN POPPY/SHIRLEY MIX

PURPLE CONEFLOWER PERENNIAL GAILLARDIA (BLANKET FLOWER) ANNUAL GAILLARDIA (INDIAN BLANKET) GREY HEADED CONEFLOWER BROWN EYED SUSAN

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 20 LBS./ACRE. 3. FOR FALL SEEDING, APPLY A NURSE CROP OF BARLEY AT A RATE OF 20 LBS./ACRE

2. MEADOW SEED MIX 'B' ERNST SEED MIX ERNMX-127 "RETENTION BASIN FLOOR SEEDING MIX" 20% AGROSTIS STOLONIFERA % ALOPECURUS ARUNDINACEUS GARRISON CREEPING FOXTAIL 25% ELYMUS VIRGINICUS 5% FESTUCA RUBRA 5% BIDENS CERNUA SPARGANIUM EURYCARPUM 4% SCIRPUS ATROVIRENS 4% SCIRPUS POLYPHYLLUS

MANY LEAVED BULRUSH BLUE VERVAIN WOOLGRASS MONKEY FLOWER

. 90% ERNMX-127 : . 10% NURSE CROP OF ANNUAL RYEGRASS 3. APPLY ALL SEED AT A RATE OF 20 LBS./ ACRE OF 100% PURE LIVE SEED.

- 3. GENERAL SEEDING NOTES SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 1) OR THE FALL (SEPTEMBER 1 TO OCTOBER 1 ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A BROAD-SPECTRUM NON-SELECTIVE HERBICIDE PER
- MANUFACTURER'S SPECIFICATIONS.

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

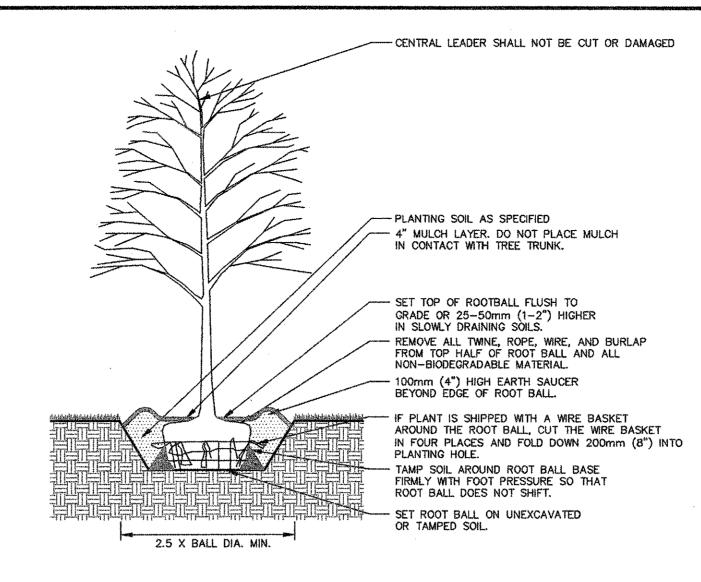
 4. CONTINUOUS MOISTURE FOR 4-6 WEEKS MUST BE INSURED TO ALLOW PROPER GERMINATION.
- 4. WEED CONTROL/MAINTENANCE NOTES: 1. MOWING MEADOW AREAS SHALL BE DONE VIA STRING TRIMMER.

3% VERBERA HASTATA 3% SCIRPUS CYPERINUS

1% SOLIDAGO PATULA

2. DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDING IF WEED HEIGHT EXCEEDS MEADOW MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NO MOW CLOSE, AS SOME OF THE MEADOW MIX MAY BE DAMAGED. 3. 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. 4. MOW IN WETLAND AND WETLAND TRANSITION AREAS DURING DRIER SITE CONDITIONS WHEN SOIL DISTURBANCE WILL NOT OCCUR. MAINTENANCE FOR WETLAND AND WETLAND TRANSITION AREAS SHALL OCCUR DURING LATE SUMMER (JULY 1 TO

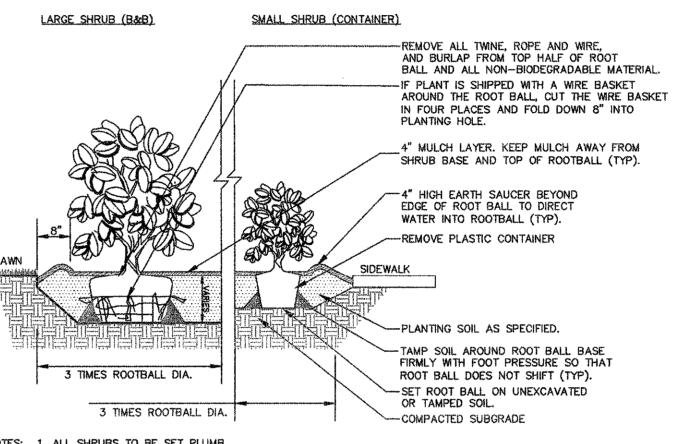
AUGUST 15) WHEN THE WATER TABLE IS USUALLY AT ITS LOWEST POINT OF THE YEAR. DO NOT MOW IN WETLAND OR WETLAND TRANSITION AREAS ESTABLISHMENT OF MEADOW MIX.



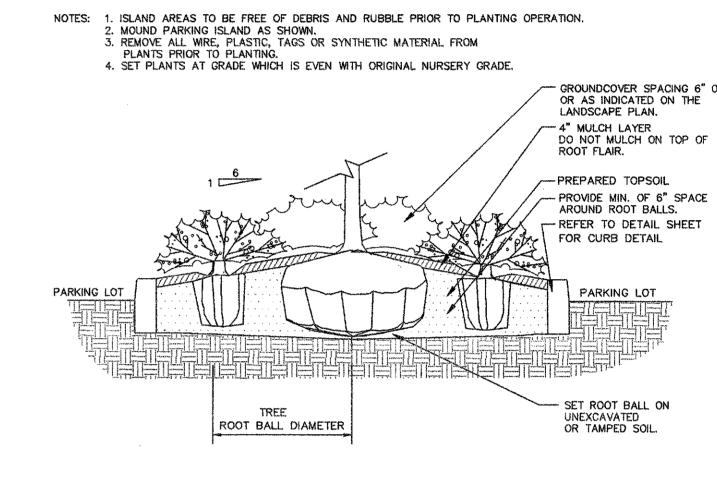
- 4" MULCH LAYER. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. - SET TOP OF ROOTBALL FLUSH TO IN SLOWLY DRAINING SOILS. 4" HIGH FARTH SALICER BEYOND EDGE OF ROOT BALL. - PLANTING SOIL AS SPECIFIED - REMOVE ALL TWINE, ROPE, WRE, AND BURLAP FROM TOP HALF OF ROOT BALL AND ALL NON-BIODEGRADABLE MATERIAL. - IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 8" INTO TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT. 2.5 X BALL DIA. MIN. - SET ROOT BALL ON UNEXCAVATED

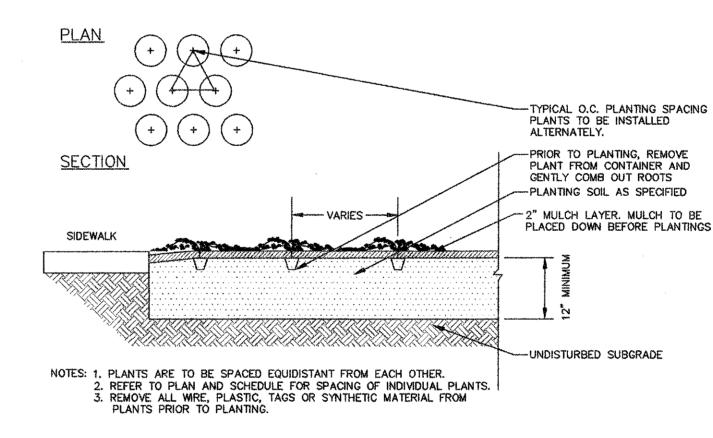
EVERGREEN TREE PLANTING

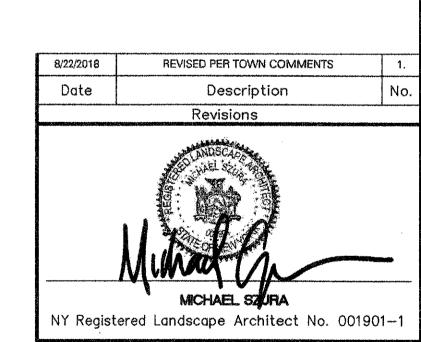
- CENTRAL LEADER SHALL NOT BE CUT OR



1. ALL SHRUBS TO BE SET PLUMB. 2. REFER TO LANDSCAPE PLAN FOR SPACING OF INDIVIDUAL PLANTS. 5. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.







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THE SHOPPES AT **UNION SQUARE** PHASE II TOWN OF NEWBURGH

ORANGE COUNTY

LANDSCAPE SCHEDULE, NOTES, AND DETAILS

JULY 18, 2018

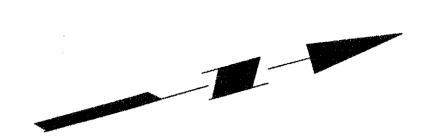
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PLANNING BOARD TRACKING NO. 2007-05

PLANT SCHEDULE BOTANICAL NAME COMMON NAME SIZE REMARKS SHADE TREE(S) AROG 2 ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE 2 1/2-3" CAL. 2 1/2-3" CAL GLEDITSIA TRIACANTHOS VAR. INERMIS 'SHADEMASTER' SHADEMASTER HONEYLOCUST 2 1/2-3" CAL. PLATANUS OCCIDENTALIS AMERICAN SYCAMORE 2 1/2-3" CAL. ULMUS PARVIFOLIA 'ALLEE' ALLEE CHINESE ELM ZELKOVA SERRATA 'VILLAGE GREEN' VILLAGE GREEN ZELKOVA 2 1/2-3" CAL. ORNAMENTAL TREE(S) CORNUS FLORIDA WHITE FLOWERING DOGWOOD 2-2 1/2" CAL. B+B EVERGREEN TREE(PSEUDOTSUGA MENZIESII SERBIAN SPRUCE PICEA OMORIKA PINUS STROBUS EASTERN WHITE PINE EVERGREEN SHRUB(S) BUXUS 'GREEN VELVET' GREEN VELVET BOXWOOD JAPANESE PLUM YEW CEPHALOTAXUS HARRINGTONIA 'FASTIGIATA' BLUE PACIFIC SHORE JUNIPER 15-18" SPRD. #3 CAN JUNIPERUS CONFERTA 'BLUE PACIFIC' 18-24" JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER CONTAINER JCSG 40 18-24" SPRD JUNIPERUS HORIZONTALIS 'YOUNGSTOWN' ANDORRA JUNIPER 24-30" SPRD. #3 CAN JUNIPERUS X PFITZERIANA 'ARMSTRONGII' ARMSTRONG PFITZER JUNIPER 30-36" NORTHERN BAYBERRY MYRICA PENSYLVANICA 'SILVER SPRITE' DENSIFORMIS YEW TAXUS X MEDIA 'DENSIFORMIS' DECIDUOUS SHRUB(S) RED OSIER DOGWOOD CORNUS SERICEA 'ALLEMANS' 24-36" CONTAINER HYDRANGEA MACROPHYLLA 'PIA' BIGLEAF HYDRANGEA VIBURNUM X RHYTIDOPHYLLOIDES 'ALLEGHANY' ALLEGHANY VIBURNUM GROUND COVER PERIWNKLE/MYRTLE 2 1/4" PEAT POTS 2 YR. PLANT spaced @ 24" o.c. VM 69 VINCA MINOR PERENNIAL(S) LIRIOPE MUSCARI 'BIG BLUE' BIG BLUE LILYTURF spaced @ 15" o.c. WOODLAND PHLOX 1 GAL. CONTAINER PHLOX DIVARICATA 'LONDON BLUE MOON' GOLDSTURM/BLACK-EYED SUSAN 2 GAL. CONTAINER RUDBECKIA FULGIDA 'GOLDSTURM' spaced @ 18" o.c. 2 GAL. SALVIA SUPERBA 'MAYNIGHT' MAYNIGHT MEADOW SAGE CONTAINER spaced @ 18" o.c. ORNAMENTAL GRASS(ES CALAMAGROSTIS ARUNDINACEA 'KARL FOERSTER' CONTAINER FEATHER REED GRASS EQUISETUM HYEMALE SCOURINGRUSH HORSETAIL CONTAINER spaced @ 24" o.c. NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. EXISTING TREE TO REMAIN (TYP. PHASE I BOUNDARY (PHASE ALREADY CONSTRUCTED. NOT PART OF THIS SUBMISSION) SECTION 96 BLOCK 1 N/F LITTLE BRICK A SECTION 96 BLOCK 1 LOT 11.1 N/F CPK UNION, LLC. EXISTING BUILDING NEW YORK STATE ROUTE 300 (UNION AVENUE) (R.O.W. WIDTH VARIES)

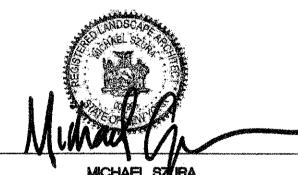
NOT

AT LEAST 3 DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY CONTACT: "CALL BEFORE YOU DIG" 1-800-962-7962.



8/22/2018 REVISED PER TOWN COMMENTS

Date Description



Revisions

NY Registered Landscape Architect No. 001901

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THE SHOPPES AT UNION SQUARE PHASE II

NEW YORK

PHASE TOWN OF NEW

LANDSCAPE PLAN

Date

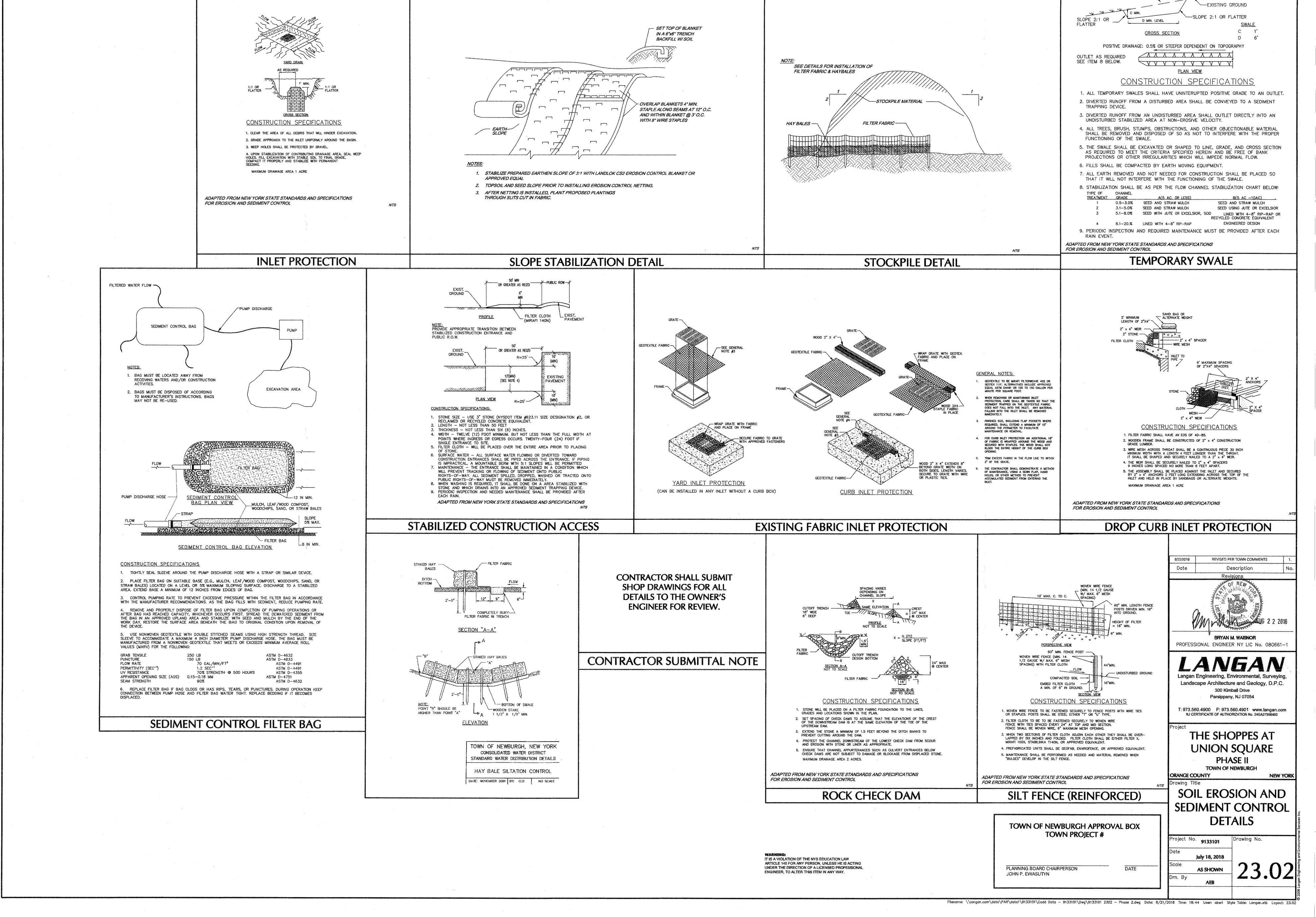
JULY 18, 2018

Scale

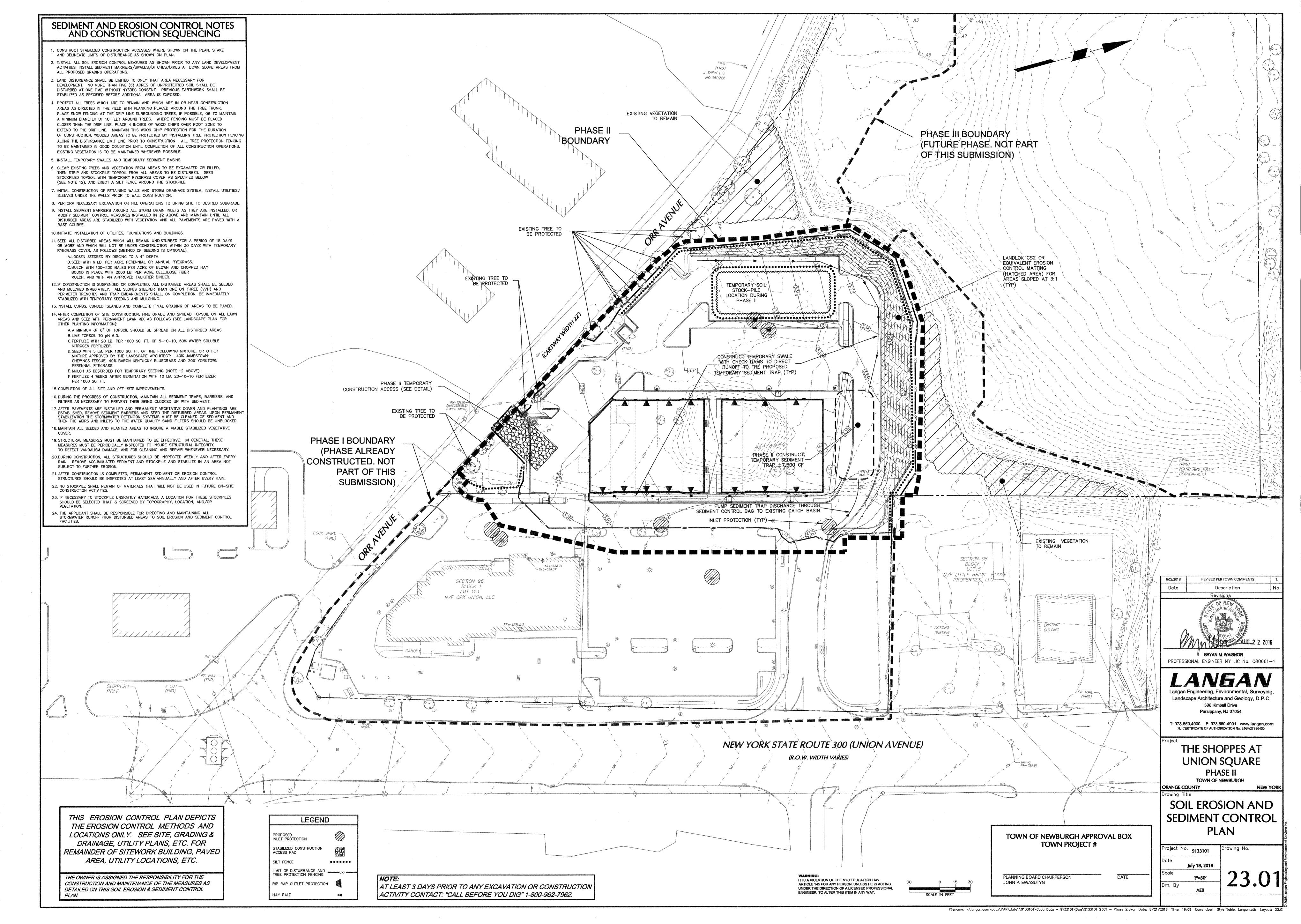
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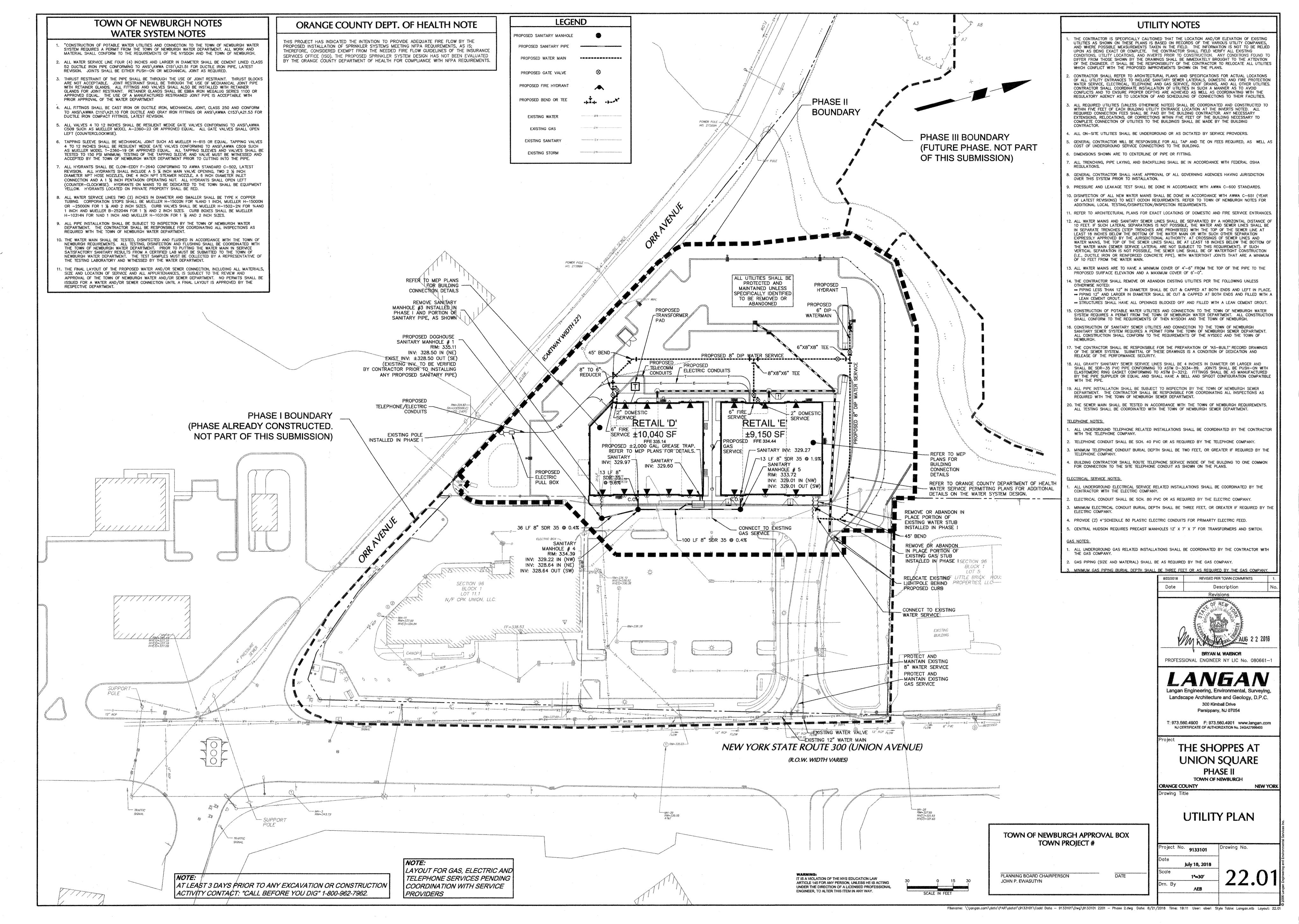
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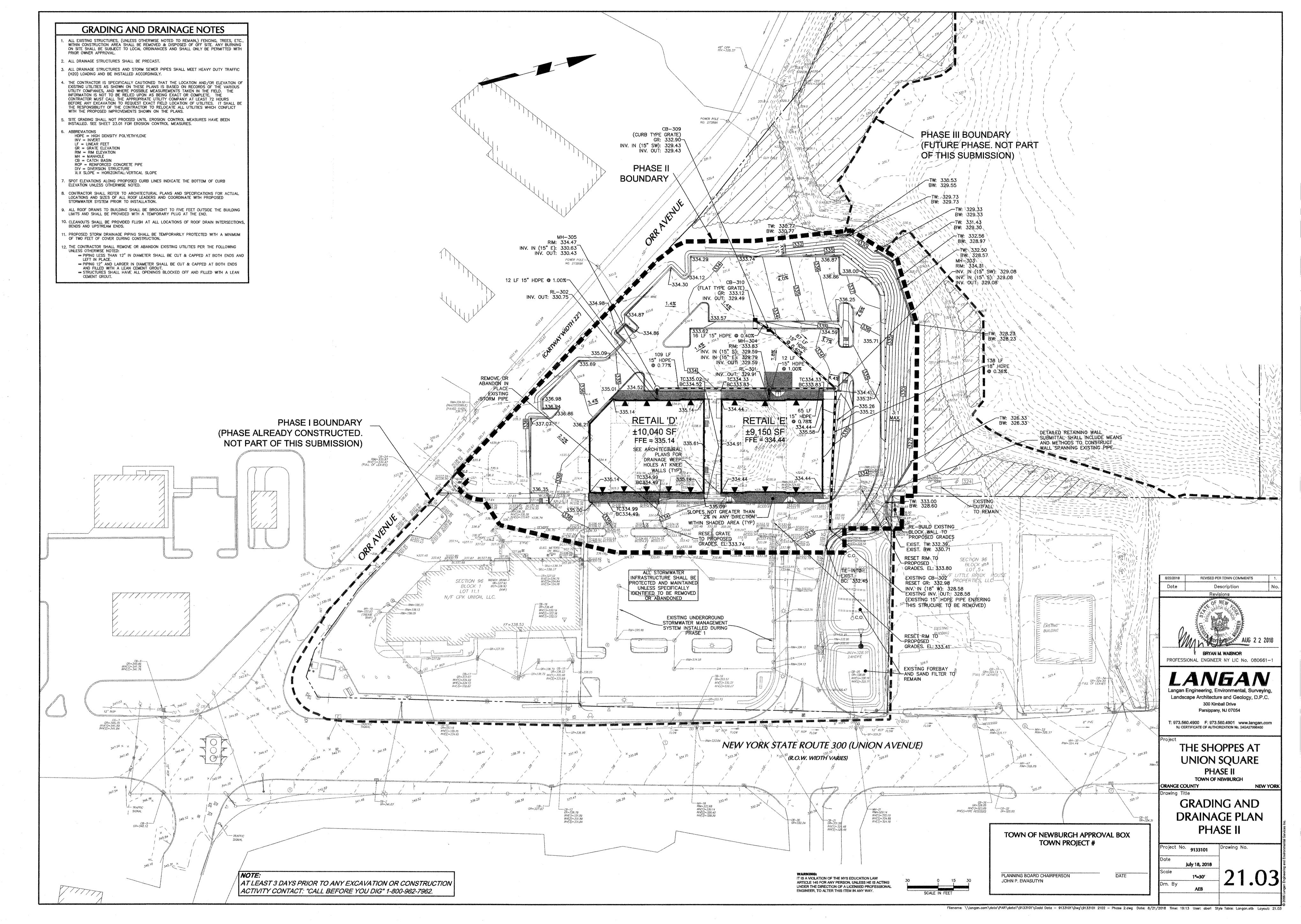
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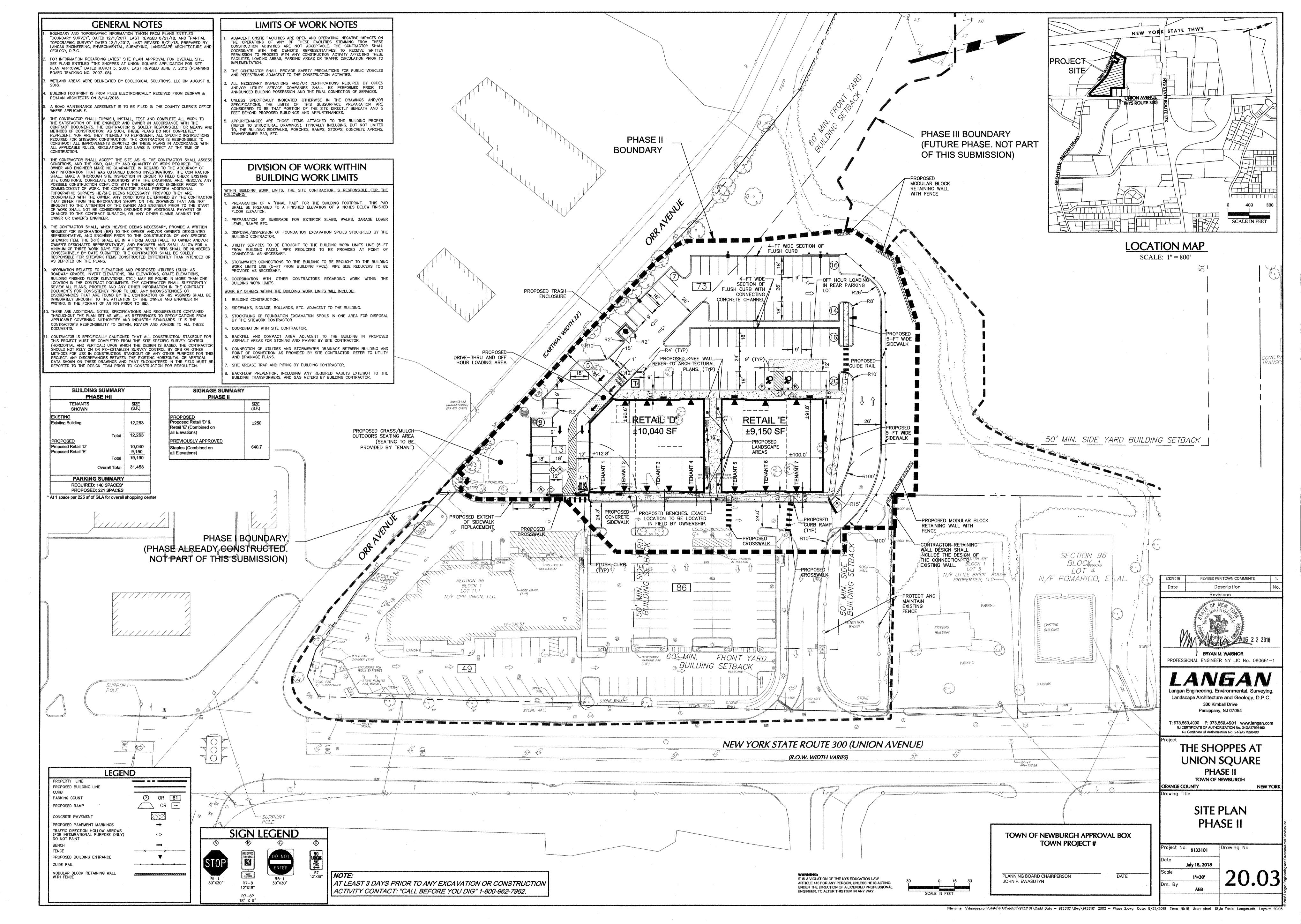


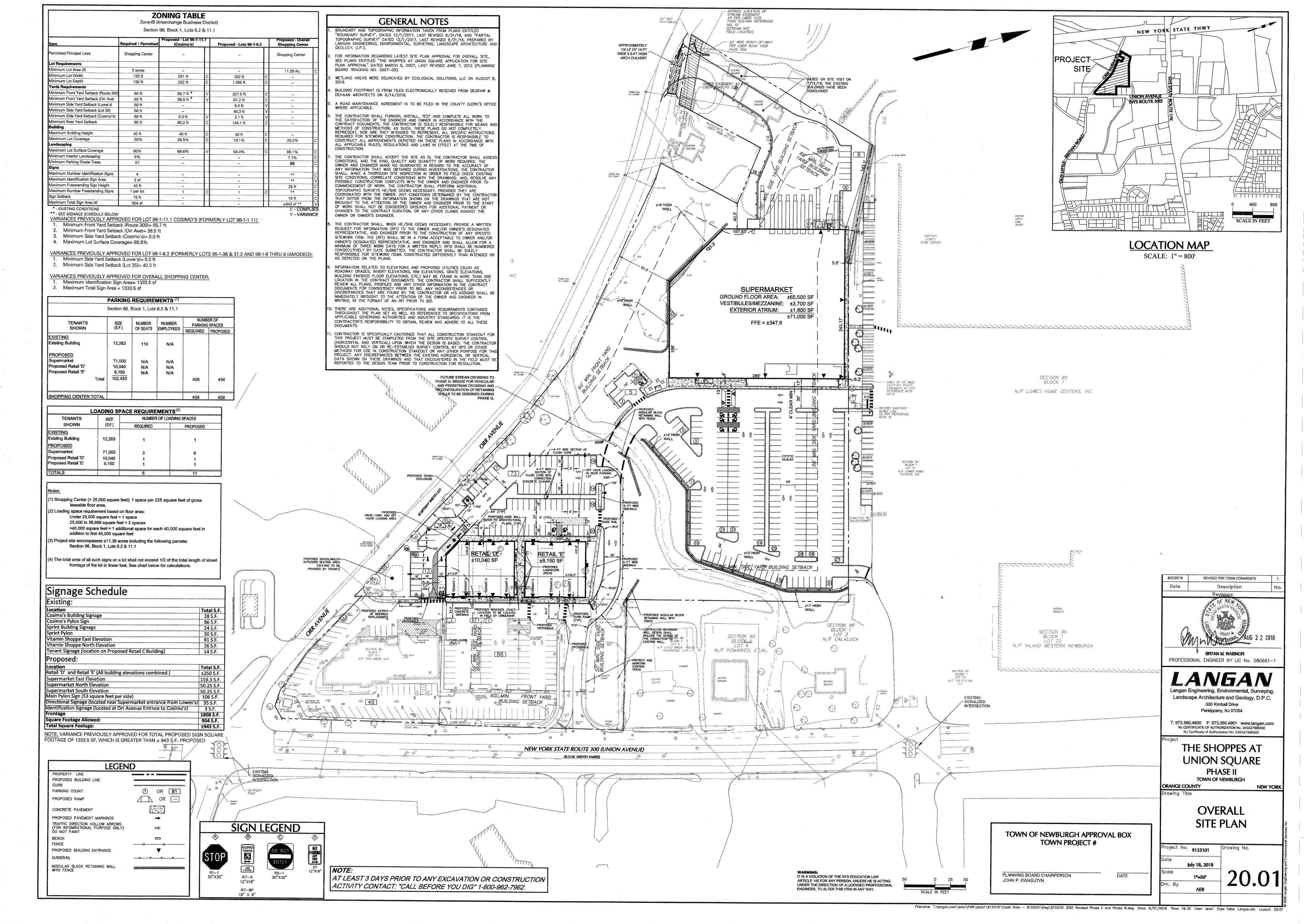
STORAGE AREA

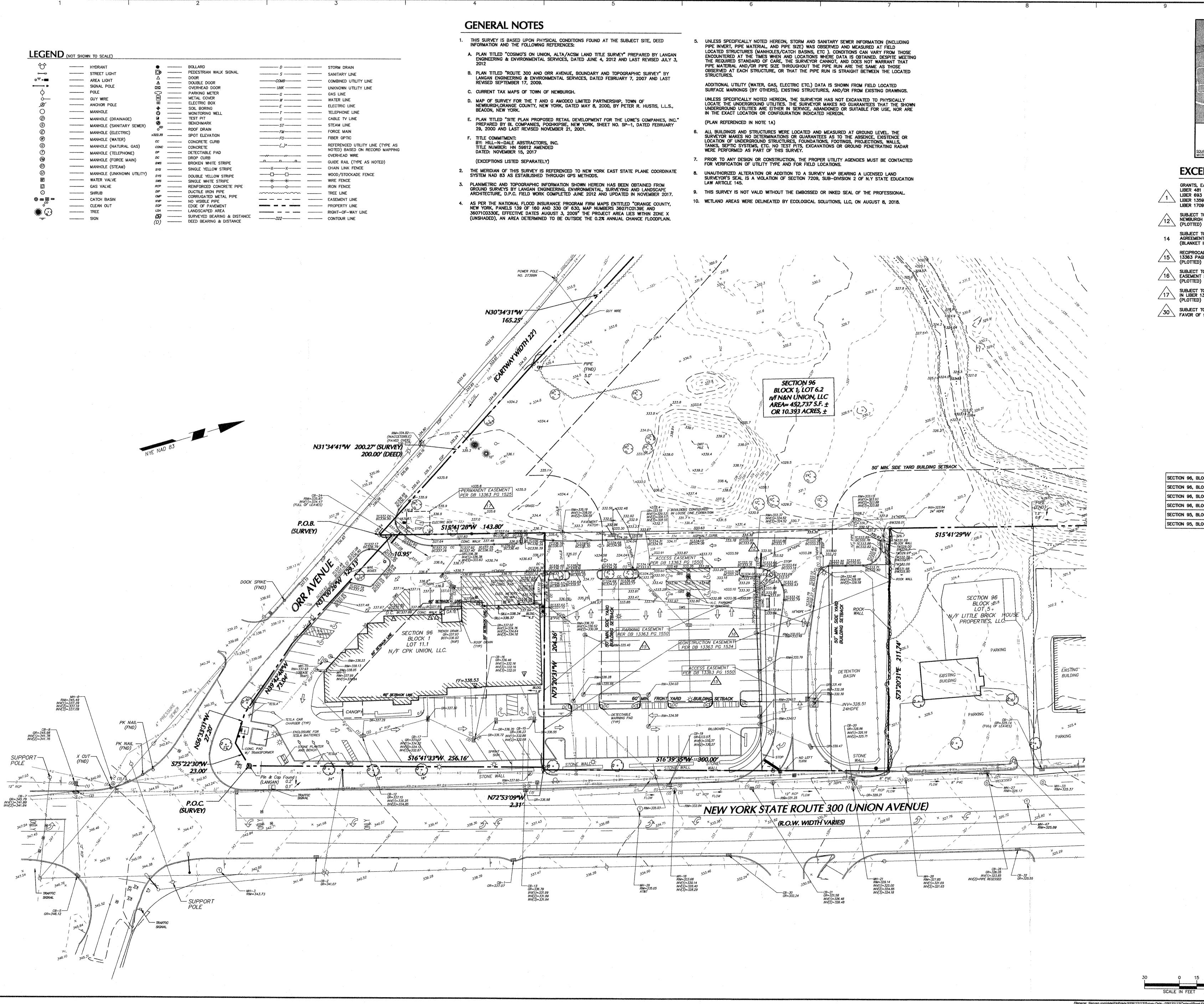


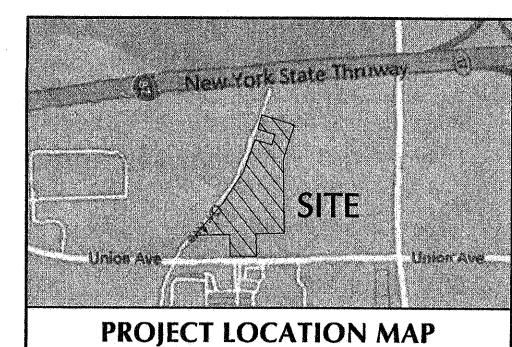












SCALE: N.T.S.

EXCEPTIONS

LIBER 1709 PAGE 39 (PLOTTED)

GRANTS, EASEMENTS, RIGHTS OF WAY:
LIBER 481 PAGE 311 (LOCATION UNKNOWN)
LIBER 693 PAGE 329 (LOCATION UNKNOWN)
LIBER 13595 PAGE 468 (PLOTTED)

SUBJECT TO UTILITY EASEMENT IN FAVOR OF THE TOWN OF NEWBURGH IN LIBER 3842 PAGE 205

SUBJECT TO STORMWATER CONTROL FACILITY MAINTENANCE
AGREEMENT IN LIBER 13346 PAGE 926

(BLANKET IN NATURE)

RECIPROCAL ACCESS AND PARKING EASEMENT AGREEMENT IN LIBER 13363 PAGE 1550, SUBJECT TO CHARGES IMPOSED THEREIN

SUBJECT TO GRANT OF RIGHT OF WAY AND CONSTRUCTION EASEMENT IN LIBER 13363 PAGE 1534

(PLOTTED)

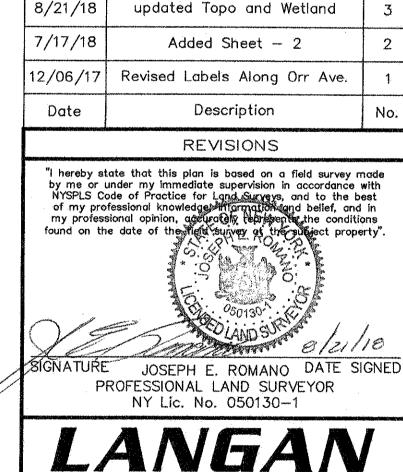
SUBJECT TO GRANT OF RIGHT OF WAY AND PERMANENT EASEMENT

IN LIBER 13363 PAGE 1525

SUBJECT TO 20' WIDE RIGHT OF WAY CROSSING PERMISES IN FAVOR OF 95-1-35 IN LIBER 1508 PAGE 558 (PLOTTED)

TABLE OF VESTING DEEDS

SECTION 96, BLOCK 1, LOT 6	BOOK 13288 PAGE 231
SECTION 96, BLOCK 1, LOT 7	BOOK 13288 PAGE 239
SECTION 96, BLOCK 1, LOT 8	BOOK 13288 PAGE 227
SECTION 96, BLOCK 1, LOT 9	BOOK 13288 PAGE 235
SECTION 95, BLOCK 1, LOT 36	BOOK 13288 PAGE 243
SECTION 95, BLOCK 1, LOT 37.2	BOOK 13288 PAGE 247



Langan Engineering, Environmental, Surveying Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com

THE SHOPPES AT UNION SQUARE

SECTION 96, BLOCK 1, LOT 6.2 TOWN OF NEWBURGH

ORANGE COUNTY
Drawing Title

PARTIAL TOPOGRAPHIC SURVEY

Project No.

9133101

Date

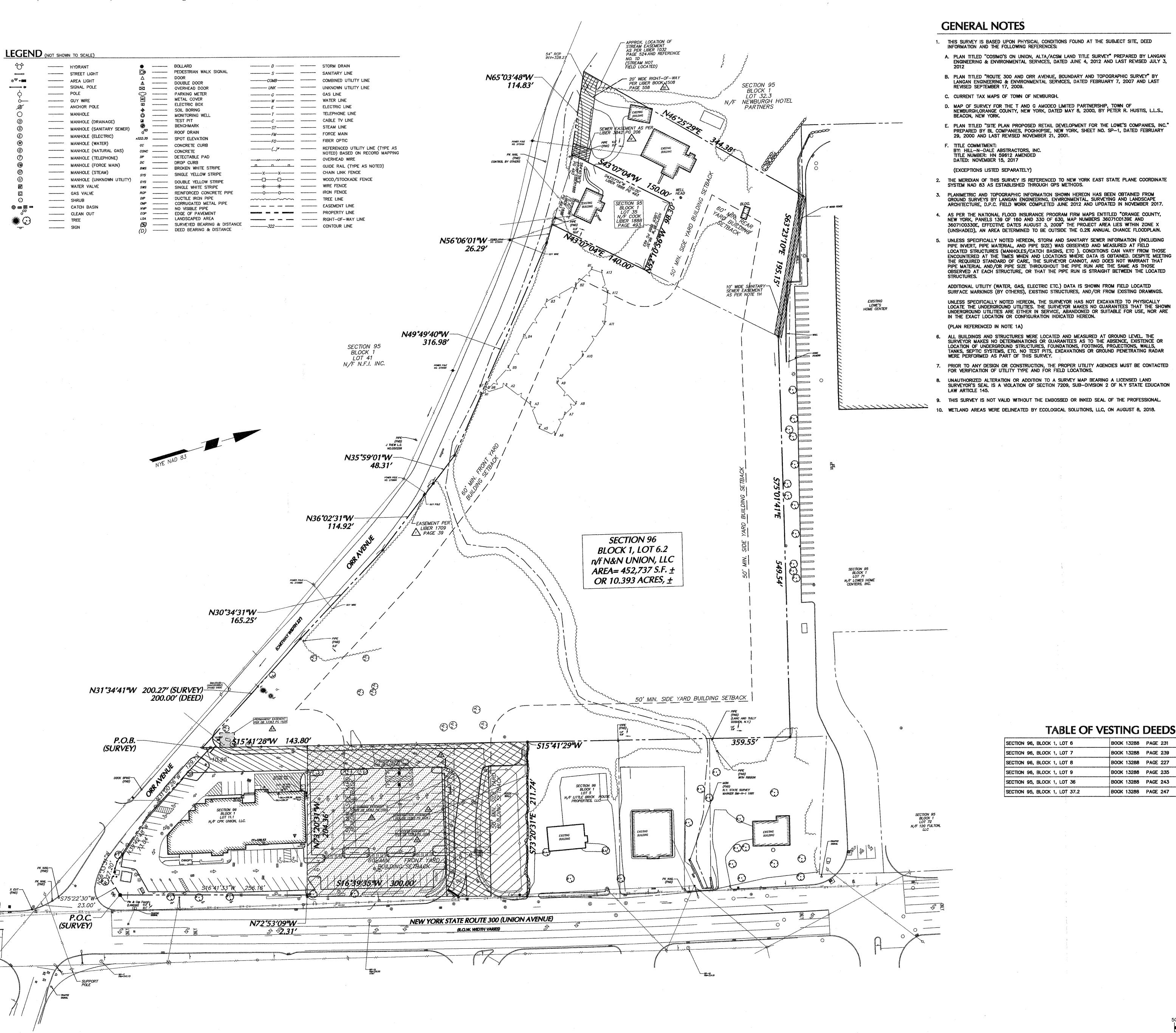
12/1/2017

Scale

1"=30'

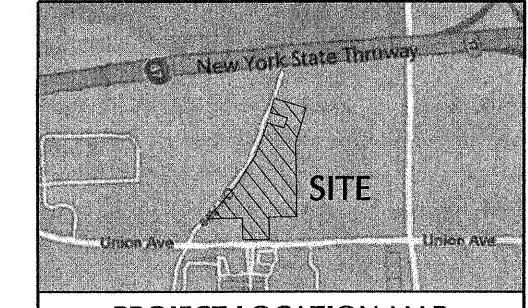
Drawn By Checked By KEC/HBV DRA

07/17/2018



- THIS SURVEY IS BASED UPON PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, DEED
- A. PLAN TITLED "COSIMO'S ON UNION, ALTA/ACSM LAND TITLE SURVEY" PREPARED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED JUNE 4, 2012 AND LAST REVISED JULY 3,
- B. PLAN TITLED "ROUTE 300 AND ORR AVENUE, BOUNDARY AND TOPOGRAPHIC SURVEY" BY
- D. MAP OF SURVEY FOR THE T AND G AMODEO LIMITED PARTNERSHIP, TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK, DATED MAY 8, 2000, BY PETER R. HUSTIS, L.L.S.,

- GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C. FIELD WORK COMPLETED JUNE 2012 AND UPDATED IN NOVEMBER 2017.
- 36071C0330E, EFFECTIVE DATES AUGUST 3, 2009" THE PROJECT AREA LIES WITHIN ZONE X (UNSHADED), AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
- PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE, THE SURVEYOR CANNOT, AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED
- ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC.) DATA IS SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS. UNLESS SPECIFICALLY NOTED HEREON, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE
- ALL BUILDINGS AND STRUCTURES WERE LOCATED AND MEASURED AT GROUND LEVEL. THE SURVEYOR MAKES NO DETERMINATIONS OR GUARANTEES AS TO THE ABSENCE, EXISTENCE OR LOCATION OF UNDERGROUND STRUCTURES, FOUNDATIONS, FOOTINGS, PROJECTIONS, WALLS, TANKS, SEPTIC SYSTEMS, ETC. NO TEST PITS, EXCAVATIONS OR GROUND PENETRATING RADAR WERE PERFORMED AS PART OF THIS SURVEY.
- 7. PRIOR TO ANY DESIGN OR CONSTRUCTION, THE PROPER UTILITY AGENCIES MUST BE CONTACTED
- 8. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF N.Y STATE EDUCATION
- 10. WETLAND AREAS WERE DELINEATED BY ECOLOGICAL SOLUTIONS, LLC, ON AUGUST 8, 2018.



PROJECT LOCATION MAP SCALE: N.T.S.

EXCEPTIONS

GRANTS, EASEMENTS, RIGHTS OF WAY: LIBER 481 PAGE 311 (LOCATION UNKNOWN) LIBER 693 PAGE 329 (LOCATION UNKNOWN) LIBER 13595 PAGE 468 (PLOTTED) LIBER 1709 PAGE 39 (PLOTTED)

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SUBJECT TO 20' WIDE RIGHT OF WAY CROSSING PERMISES IN \geq FAVOR OF 95-1-35 IN LIBER 1508 PAGE 558 (PLOTTED)

8/21/18	Updated Topo & wetland	3
7/17/18	Added Sheet — 2	2
12/06/17	Revised Labels Along Orr Ave.	1
Date	Description	No

REVISIONS "I hereby state that this plan is based on a field survey made by me or under my immediate supervision in accordance with NYSPLS Code of Practice for Land Surveys, and to the best of my professional knowledge, information and belief, and in my professional opinion accurately appresents the conditions found on the date of the field survey at the subject property".

TURE JOSEPH E. ROMANO DATE SIGNED PROFESSIONAL LAND SURVEYOR NY Lic. No. 050130-1

Landscape Architecture and Geology, D.P.C.

300 Kimball Drive Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com

THE SHOPPES AT **UNION SQUARE**

SECTION 96, BLOCK 1, LOT 6.2 TOWN OF NEWBURGH ORANGE COUNTY

> **BOUNDARY SURVEY**

9133101 12/1/2017 **VB101** 1" = 50'Drawn By Checked By

DRA

KEC/HBV

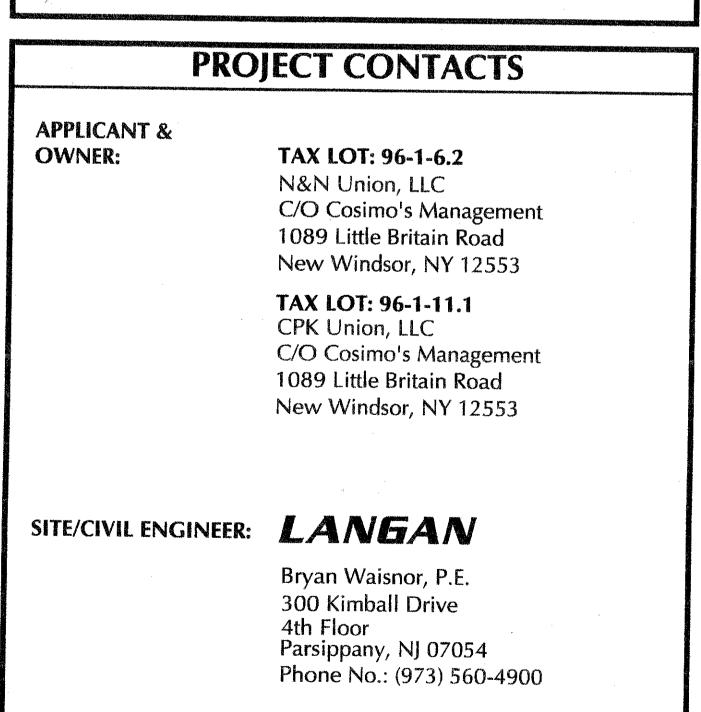
ibmission Date 07/17/2018

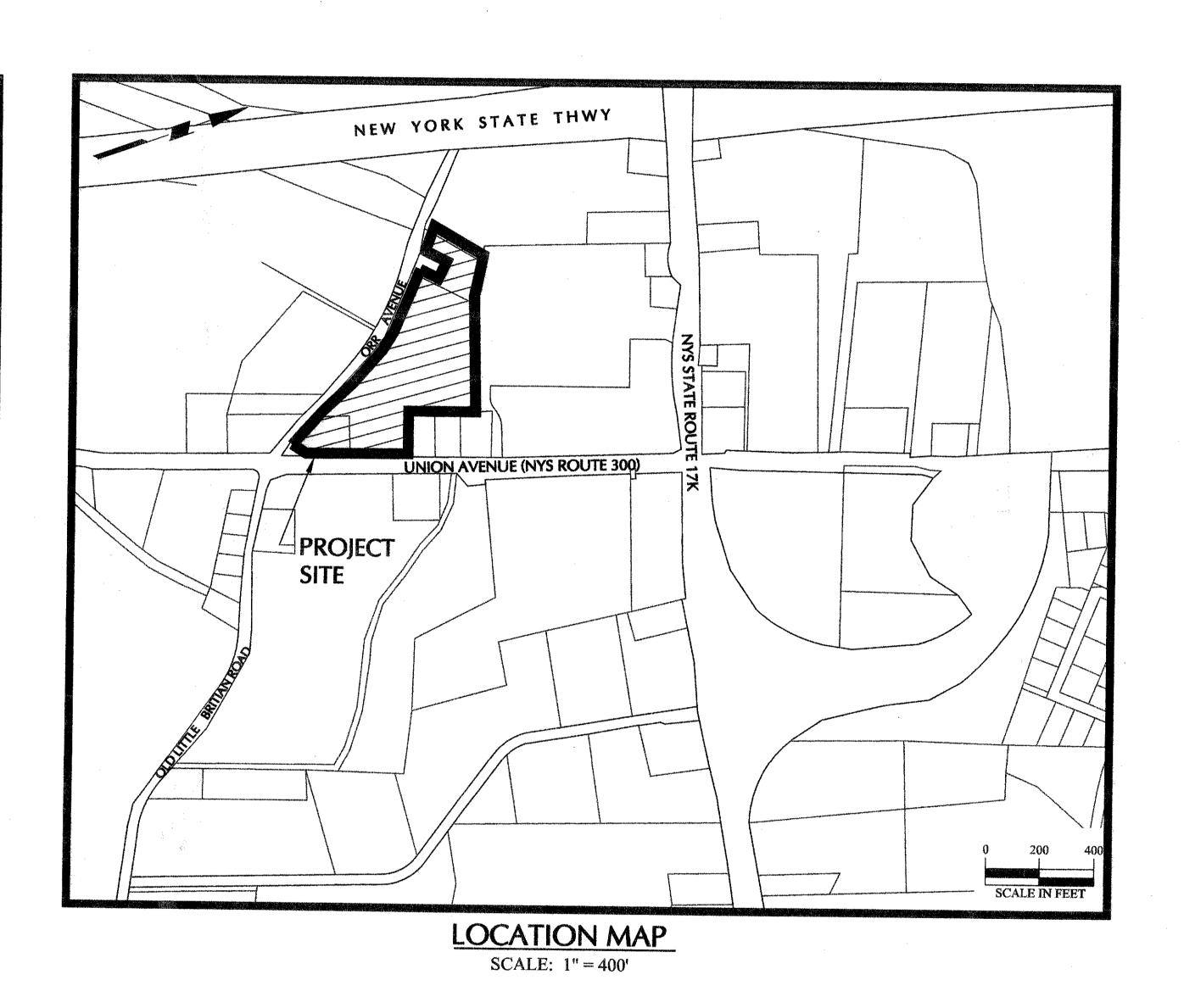
THE SHOPPES AT UNION SQUARE APPLICATION FOR AMENDED SITE PLAN APPROVAL

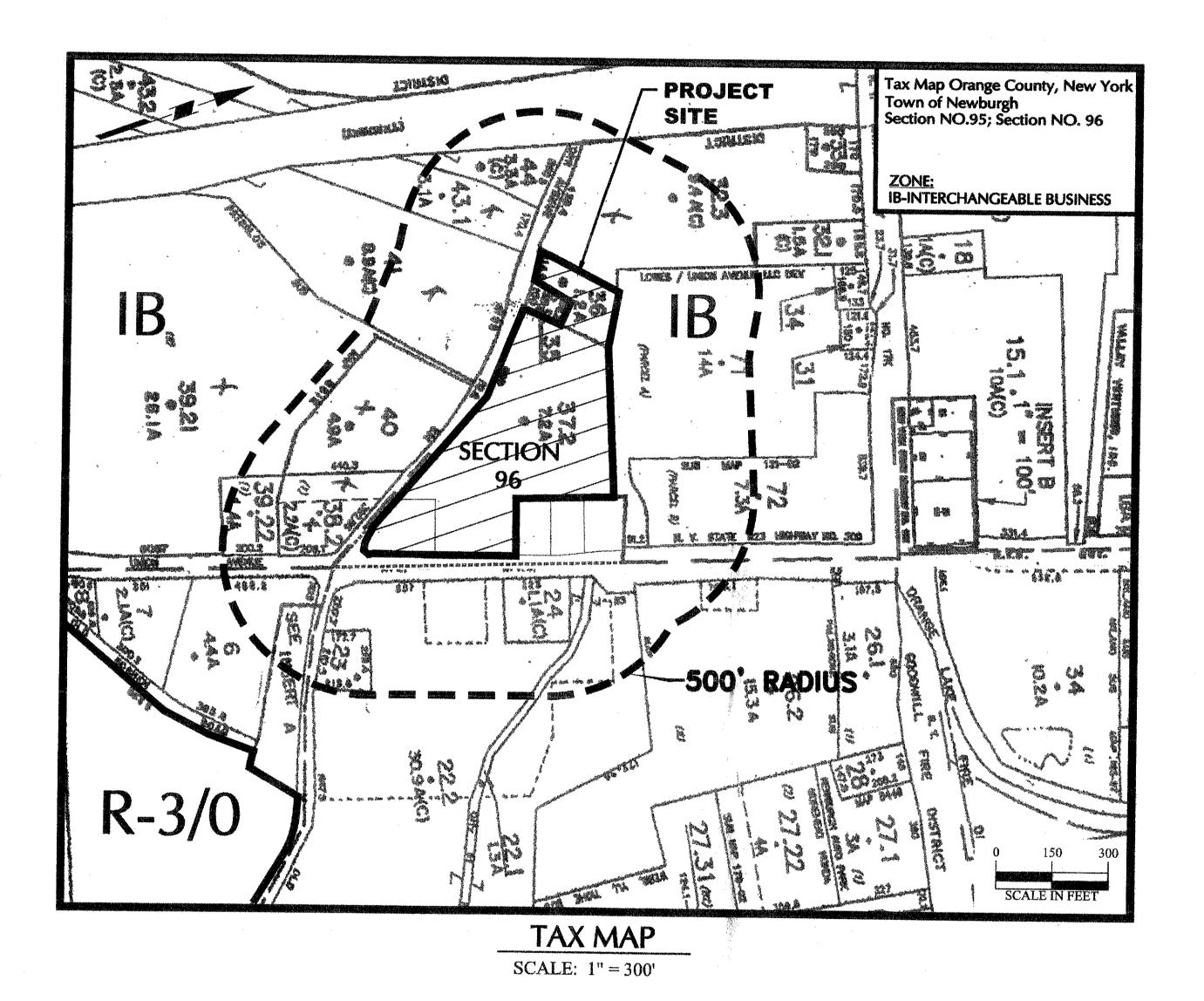
SECTION 96, BLOCK 1, LOTS 6.2 & 11.1

UNION AVENUE (NYS ROUTE 300) AND ORR AVENUE TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

LIST OF CONTACTS PLANNING BOARD CHAIRMAN **TOWN CLERK** Andrew J. Zarutskie Town Of Newburgh 1496 Route 300 343 Route 32 Newburgh, NY 12550 Newburgh, NY 12550 PHONE: (845) 564-4554 Mr. John Egitto FAX: (845) 564-8589 PHONE: (845) 564-2180 **ORANGE COUNTY** SEWER HEALTH DEPARTMENT Town Of Newburgh 124 Main Street 311 Route 32, Goshen, NY 10924 Newburgh, NY 12550 PHONE: (845) 291-2331 PHONE: (845) 564-7803 **SUPERVISOR** Time Warner Cable Gil Piaquadio 109-15 14th Avenue 1496 Route 300 College Point, NY 11356 Newburgh, NY 12550 PHONE: (845) 692-5339 PHONE: (845) 564-4552 FAX: (845) 566-9486 **ORANGE COUNTY SOIL & WATER** CONSERVATION DISTRICT 225 Dolson Avenue, Suite 103 Middletown, NY 10940 PHONE: (914) 343-1873/3811 FAX: (914) 344-1341







DRAWING LIST					
DRAWING NO.	DESCRIPTION	SCALE	DATED	REVISION DATE	
00.01	COVER SHEET	NTS	JULY 18, 2018	AUGUST 22, 2018	
VB101	BOUNDARY SURVEY	1"=50'	DEC 1, 2017	AUGUST 21, 2018	
VB101	PARTIAL TOPOGRAPHIC SURVEY	1"=30'	DEC 1, 2017	AUGUST 21, 2018	
20.01	OVERALL SITE PLAN	1"=50'	JULY 18, 2018	AUGUST 22, 2018	
20.03	SITE PLAN PHASE II	1"=30'	JULY 18, 2018	AUGUST 22, 2018	
21.03	GRADING AND DRAINAGE PLAN PHASE II	1"=30'	JULY 18, 2018	AUGUST 22, 2018	
22.01	UTILITY PLAN	1"=30'	JULY 18, 2018	AUGUST 22, 2018	
23.01	SOIL EROSION AND SEDIMENT CONTROL PLAN	1"=30'	JULY 18, 2018	AUGUST 22, 2018	
23.02	SOIL EROSION AND SEDIMENT CONTROL DETAILS	AS SHOWN	JULY 18, 2018	AUGUST 22, 2018	
24.01	LANDSCAPE PLAN	1"=30'	JULY 18, 2018		
24.04	LANDSCAPE SCHEDULE, NOTES, AND DETAILS	AS SHOWN	JULY 18, 2018	AUGUST 22, 2018	
25.01	LIGHTING PLAN	1"=30'	JULY 18, 2018	AUGUST 22, 2018	
25.02	LIGHTING SCHEDULE, NOTES, AND DETAILS	AS SHOWN	JULY 18, 2018	AUGUST 22, 2018	
28.01	DETAIL SHEET	AS SHOWN	JULY 18, 2018	AUGUST 22, 2018	
28.02	DETAIL SHEET	AS SHOWN	JULY 18, 2018	AUGUST 22, 2018 AUGUST 22, 2018	

IT IS A VIOLATION OF THE NYS EDUCATION LAW

ENGINEER, TO ALTER THIS ITEM IN ANY WAY

ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING

UNDER THE DIRECTION OF A LICENSED PROFESSIONAL

AT LEAST 3 DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY CONTACT: "CALL BEFORE YOU DIG" 1-800-962-7962.

1"=30'	JULY 18, 2018	AUGUST 22, 2018		T: 973.560.4900 F: 97	3.560.4901 www.langan.com
1"=30'	JULY 18, 2018	AUGUST 22, 2018		NJ CERTIFICATE OF AUT	HORIZATION No. 24GA27996400
AS SHOWN	JULY 18, 2018	AUGUST 22, 2018		Project	
1"=30'	JULY 18, 2018	AUGUST 22, 2018			OPPES AT
AS SHOWN	JULY 18, 2018	AUGUST 22, 2018			
1"=30'	JULY 18, 2018	AUGUST 22, 2018		UNION	SQUARE
AS SHOWN	JULY 18, 2018	AUGUST 22, 2018			ASE II
AS SHOWN	JULY 18, 2018	AUGUST 22, 2018			· · · · · · · · · · · · · · · · · · ·
AS SHOWN	JULY 18, 2018	AUGUST 22, 2018		ORANGE COUNTY	NEWBURGH NEW YORK
			-	Drawing Title	11244 IOW
ets.	TOWN OF NEWBURGH APPROVAL BOX TOWN PROJECT #				VER IEET
			AL BOX		
		WN PROJECT #	DATE	Project No. 9133101 Date July 18, 2018 Scale AS SHOWN Drn. By AEB	Drawing No.

8/22/2018

Date

REVISED PER TOWN COMMENTS

PROFESSIONAL ENGINEER NY LIC No. 080661-

LANGAN

Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054