

Town of Manlius

Planning Board Meeting Agenda

July 11, 2022

6:30PM

1. Zoom Meeting Instructions

Documents:

[ZOOM PLANNING BOARD MEETING INSTRUCTIONS JULY 11, 2022.PDF](#)

2. Pledge Of Allegiance

3. Fayetteville Veterinary Hospital - 8122 East Genesee Street, Fayetteville, NY 13066 - Public Hearing - Site Plan - New Veterinary Hospital - Same Address - Tax Map # 091.-01-0.2

Documents:

[8122 EAST GENESEE STREET - FVH - ELEVATIONS.PDF](#)
[8122 EAST GENESEE STREET - FVH - FLOOR PLAN.PDF](#)
[8122 EAST GENESEE STREET - FVH - SHORT FORM EAF-SIGNED.PDF](#)
[8122 EAST GENESEE STREET - FVH SITE PLANS.PDF](#)
[8122 EAST GENESEE STREET - LOT LINE ADJUSTMENT MAP.PDF](#)
[8122 EAST GENESEE STREET - SIGNED APPLICATION AND DISCLOSURE AFFIDAVIT.PDF](#)
[OCPB - RESOLUTION - FAYETTEVILLE VET HOSPITAL.PDF](#)
[OCPB REFERRAL - 8122 GENESEE STREET - FVH.PDF](#)
[UPDATED - 8122 EAST GENESEE STREET - FVH PB SUBMISSION.PDF](#)
[UPDATED - FVH FULL PACKAGE.PDF](#)
[UPDATED - NYSDOT PERM 33 APPROVAL EMAIL.PDF](#)

4. Shashank Bhatt - 4579 Southwood Heights Drive, Jamesville, NY 13078 - Recommendation To Town Board For Zone Change (CA & RA To RM) - Seven Pines Project - 8104, 8108, 8112 & 8116 Manlius-Cazenovia Road, Manlius, NY 13104 - Tax Map #'s 112.-02-2.7, 112.-02-06.0, 112.-02-07.0 And 112.-02-2.9

Documents:

[8104-8110 CAZENOVIA ROAD - ZONE CHANGE APP-PB APP-SHORT FORM EAF.PDF](#)
[8104-8110 CAZENOVIA ROAD - LEGAL DESCRIPTION.PDF](#)
[8104-8110 CAZENOVIA ROAD - PHOTOPACKAGE - SEVEN PINES RESIDENTIAL CONVERSION.PDF](#)
[8104-8110 CAZENOVIA ROAD - SURVEY 1.PDF](#)
[8104-8110 CAZENOVIA ROAD - SURVEY 2.PDF](#)

5. Twin Shores Properties, LLC - 1333 13th Street, East Moline, IL 61244 - Initial Presentation - Twin Shores - Fietta Properties - North Burdick Street, Fayetteville, NY 13066 - Tap Map #'s 086.-02-02.1, 086.-02-03.0, 086.-02-04.1, 086.-02-05.1, 086.-02-05.3 And 086.-02-06.1

Documents:

TWIN SHORES - INITIAL APPEARANCE APPLICATION.PDF
TWIN SHORES - INITIAL APPEARANCE APPLICATION SUBDIVISION.PDF
TWIN SHORES - LONG SEQR PART 1.PDF
TWIN SHORES - COMPILED APPENDICES [COMPLETE].PDF
TWIN SHORES - DISCLOSURE AFFIDAVIT.PDF
TWIN SHORES - SWPPP [DRAFT].PDF
TWIN SHORES - BOUNDARY SURVEY.PDF
TWIN SHORES - SOCPA RESPONSE.PDF
TWIN SHORES - OP-1 (OVERALL SITE PLAN).PDF
TWIN SHORES - SP-1 (SUBDIVISION PLAN).PDF
TWIN SHORES - TWIN LAKES PROPOSED SIGN.PDF

6. Other Business

7. Adjournment



July 11, 2022

Virtual Planning Board Meeting

Instructions to attend the July 11, 2022 virtual Planning Board meeting:

The easiest way to join is to go to our website www.TownOfManlius.org and click on the link that is located on the homepage. You can also watch on our Facebook page by searching for "Town of Manlius"

Enter the meeting url web address as listed below:

<https://us02web.zoom.us/j/82670879599?>

Password to join when prompted:

Password: 384888

Enter your email address and name and join the meeting!

Join by telephone by dialing the number below:

1-(929) -436-2866

When prompted to enter the Webinar ID, use the number below followed by #

Webinar ID: 826 7087 9599

Press # again to skip the personal id and enter the password below followed by #

Password: 384888

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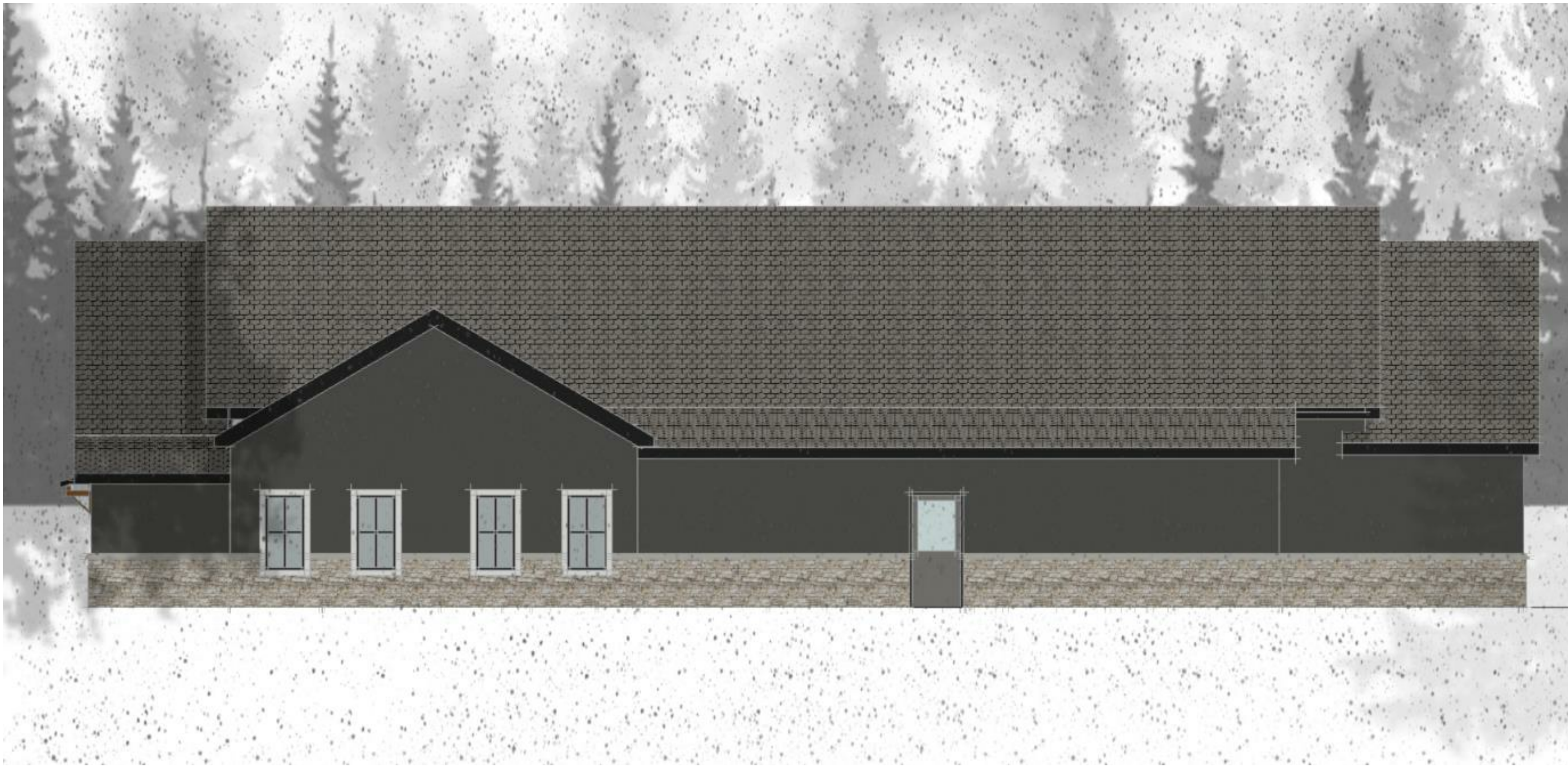
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3D VIEW



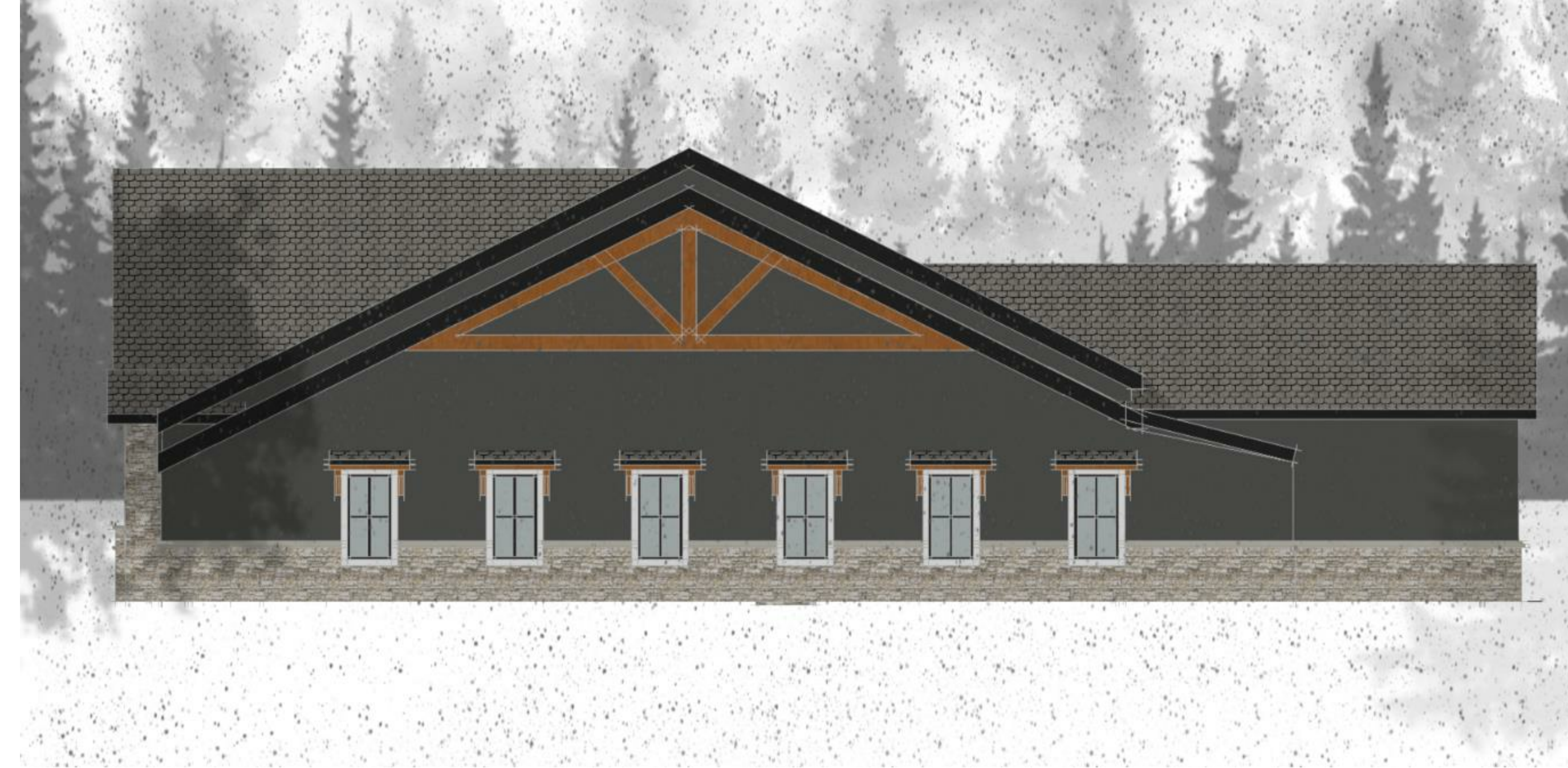
FRONT ELEVATION



REAR ELEVATION



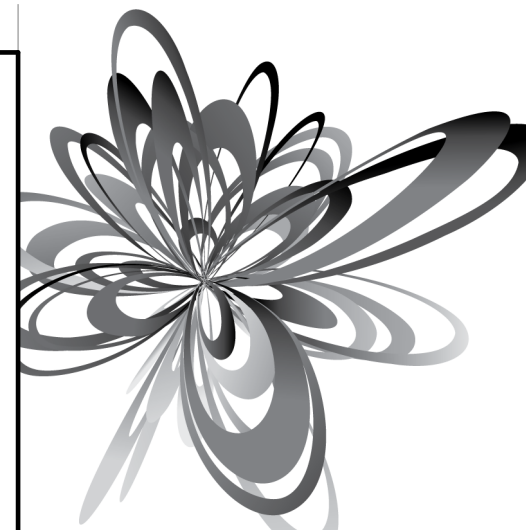
3D VIEW



RIGHT ELEVATION



LEFT ELEVATION



ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:

SEAL:



OWNER:

FAYETTEVILLE VETERINARY HOSPITAL
8122 E GENESEE ST
FAYETTEVILLE, NY 13066

NEW BUILDING

FAYETTEVILLE VETERINARY HOSPITAL

8122 E GENESEE ST, FAYETTEVILLE, NY 13066

AM JOB NO.

17012

REV. NO.

DATE

DATE ISSUED:

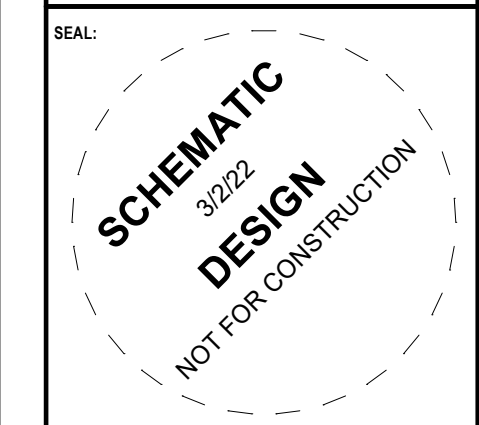
3/2/22

BUILDING
ELEVATIONS

A201



CONSULTANT



OWNER-

NEW BUILDING

FAYETTEVILLE VETERINARY HOSPITAL

8122 E GENESSEE ST, FAYETTEVILLE, NY 13066

AM JOB NO.

17012

FLOOR PLANS

A101

Short Environmental Assessment Form

Part 1 - Project Information

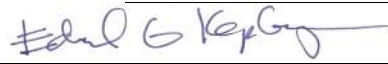
Instructions for Completing

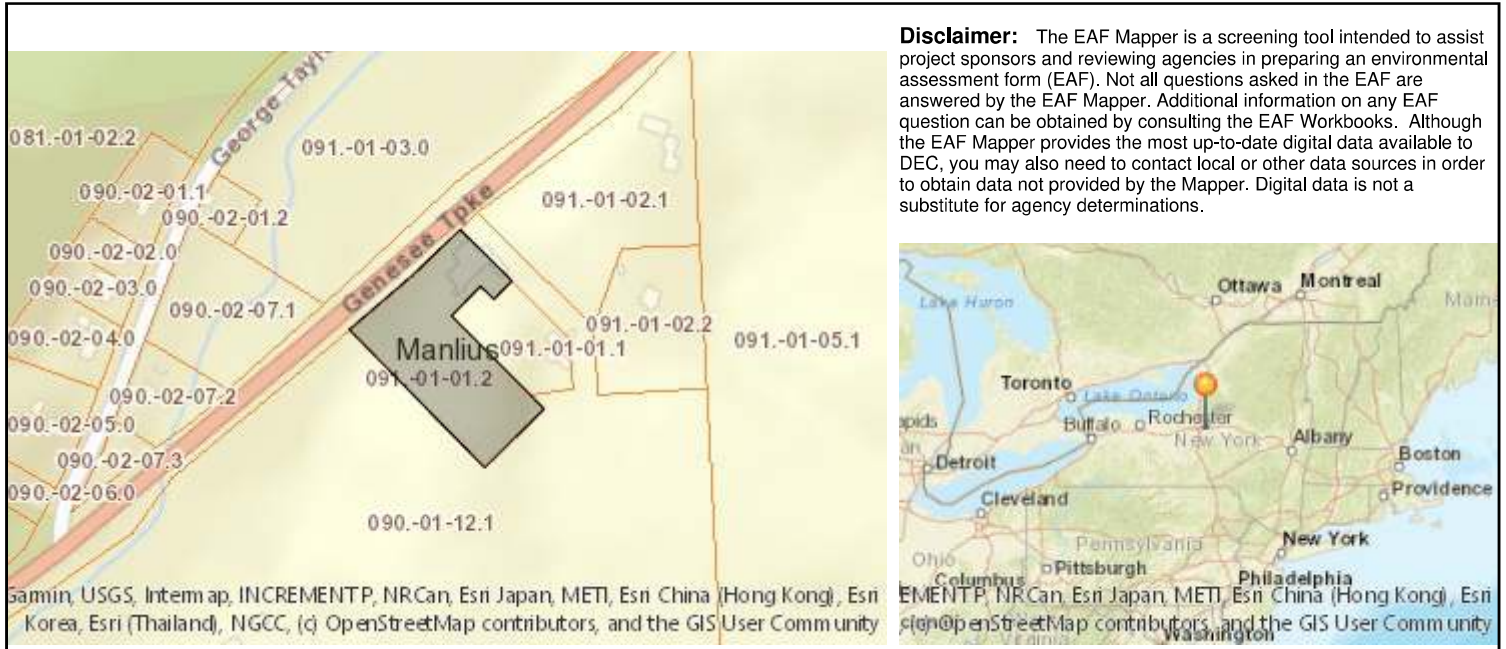
Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available.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

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information			
Name of Action or Project: Fayetteville Veterinary Hospital			
Project Location (describe, and attach a location map): 8122 E. Genesee Street, Fayetteville, NY 13066			
Brief Description of Proposed Action: To build new Veterinary Hospital and demolish the existing building. The project will include parking, site utilities, and storm water mitigation. The project site will also include site amenities such as sidewalks and landscaping.			
Name of Applicant or Sponsor: Mike Bunnell		Telephone: 315-637-9801	
		E-Mail:	
Address: 8122 E. Genesee Street			
City/PO: Fayetteville		State: NY	Zip Code: 13066
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.		NO ☒	YES ☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:		NO ☒	YES ☐
3. a. Total acreage of the site of the proposed action?		2.89 acres	
b. Total acreage to be physically disturbed?		2.89 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		2.89 acres	
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. ☐ Urban ☒ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☐ Residential (suburban)			
☒ Forest ☒ Agriculture ☐ Aquatic ☐ Other(Specify):			
☐ Parkland			

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	☐	☒	☐
b. Consistent with the adopted comprehensive plan?	☐	☒	☐
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	☐	☒	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?	NO	YES	
If Yes, identify: _____	☒	☐	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES	
	☒	☐	
b. Are public transportation services available at or near the site of the proposed action?	☒	☐	
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☒	☐	
9. Does the proposed action meet or exceed the state energy code requirements?	NO	YES	
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	☐	☒	
10. Will the proposed action connect to an existing public/private water supply?	NO	YES	
If No, describe method for providing potable water: _____ _____	☐	☒	
11. Will the proposed action connect to existing wastewater utilities?	NO	YES	
If No, describe method for providing wastewater treatment: _____ _____	☐	☒	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	NO	YES	
	☒	☐	
b. 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?	☒	☐	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	NO	YES	
	☐	☒	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☒	☐	
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____			

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: ☐ Shoreline ☒ Forest ☒ Agricultural/grasslands ☐ Early mid-successional ☐ Wetland ☐ Urban ☐ Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	☒	☐
16. Is the project site located in the 100-year flood plan?	NO	YES
	☒	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,	NO	YES
a. Will storm water discharges flow to adjacent properties?	☒	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☐	☒
If Yes, briefly describe: _____ Stormwater will be conveyed to existing swale located withing NYS Route 5 Right-of-Way. _____		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____ _____	NO	YES
	☒	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO	YES
	☒	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO	YES
	☒	☐
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor/name: <u>Edward G. Keplinger , RLA</u> Date: <u>3/2/2022</u> Signature: <u></u> Title: <u>Partner</u>		



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No

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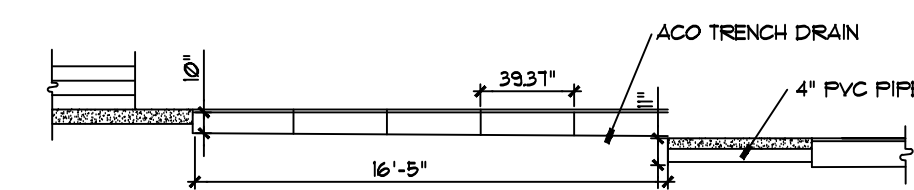
X-FAY ANIMAL-GEN NOTES

LII-SITE-PREP-NOTES

X-FAY, ANIMAL HOSF

X-PARKING DATA

PROJECT LOCATION



L2.0-GDU-NOTES

- ## GRADING and UTILITY GENERAL NOTES

- SEAL:
- NOT FOR CONSTRUCTION

Rev. No.	Date	Desc.
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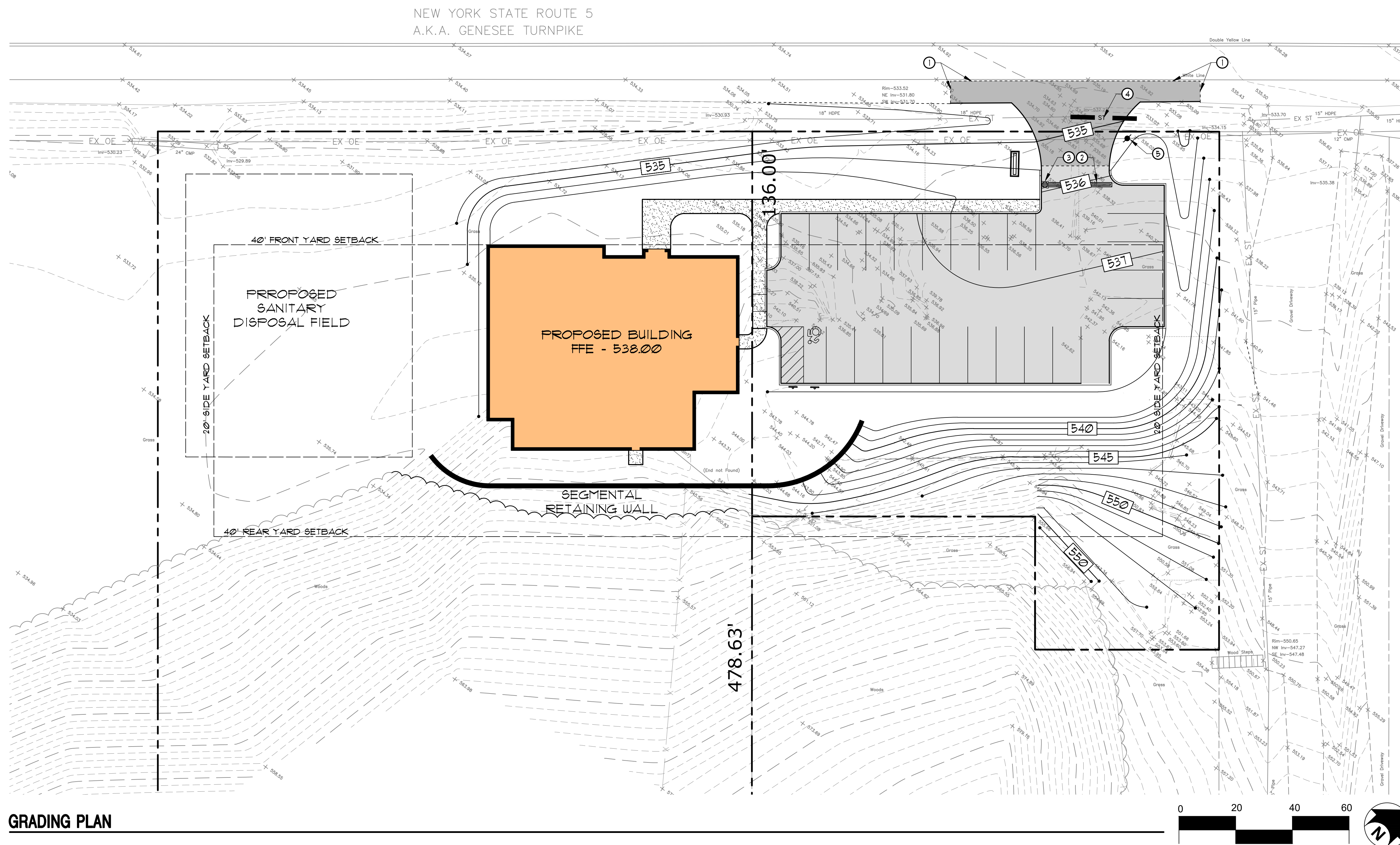
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GRADING, DRAINAGE and UTILITY PLAN

DATE ISSUED: 03/03/22

L2.1

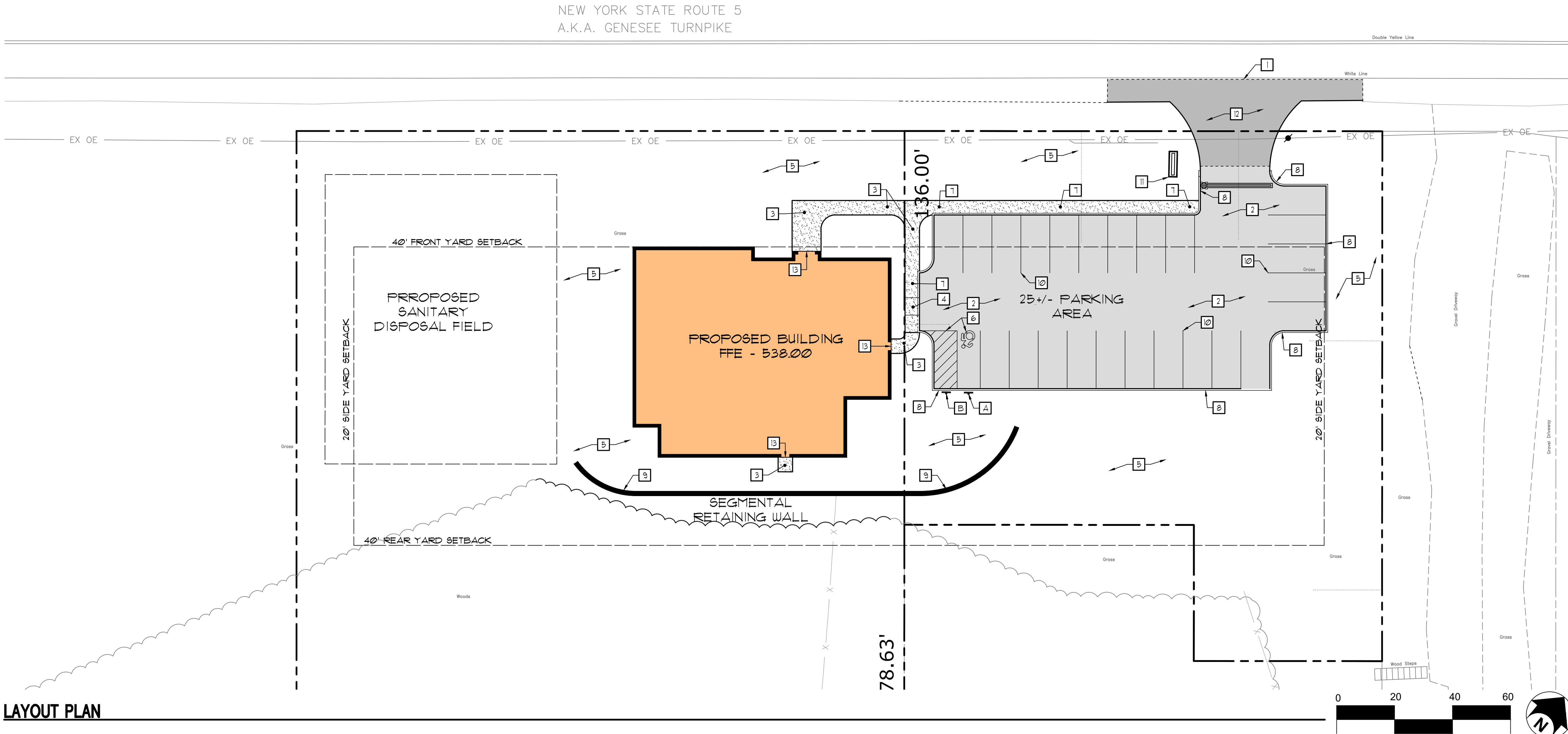
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LAYOUT PLAN

SIGN SCHEDULE			
L3.0-SIGN-SCHEDULE			
KEY	SIGN PLATE	SIGN SIZE MOUNTING HT.	NYSDOT MUTCD NO. / COMMENTS
A	 RESERVED PARKING W/ ACCESSIBLE SYMBOL	12" X 18" 7'-0" HT.	SIGN NO.: P4-6 COLORS: WHITE BACKGROUND, BLUE ICON, GREEN TEXT/ BORDER COMMENTS:
B	 NO PARKING ANY TIME	12" X 18" 7'-0" HT.	SIGN NO.: - R7-1 COLORS: WHITE BACKGROUND, RED TEXT AND BORDER
NOTES: 1. REFER TO TRAFFIC CONTROL SIGN DETAIL 11/L5.1 FOR INSTALLATION. 2. ALL REGULATORY SIGNS SHALL CONFORM TO THE MOST CURRENT NYSDOT "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."			

LAYOUT CONSTRUCTION NOTES	
L3.0-LAYOUT-NOTES	
1	MEET EXISTING LINE AND GRADE OF ADJACENT SURFACE.
2	INSTALL ASPHALT PARKING PAVEMENT PER DETAIL 11/L5.1.
3	INSTALL CONCRETE PAVEMENT PER DETAIL 3/L5.1.
4	INSTALL ACCESSIBLE RAMP PER DETAIL 9/L5.1.
5	INSTALL SEEDED LAWN PER DETAIL 13/L5.1.
6	INSTALL RESERVED PARKING STALL PER DETAIL 10/L5.1.
7	INSTALL INTEGRAL CONCRETE CURB AND PAVEMENT PER DETAIL 7/L5.1.
8	INSTALL CONCRETE CURB PER DETAIL 6/L5.1.
9	INSTALL RETAINING WALL A PER DETAIL 17/L5.1.
10	4" WIDE PAINTED LINES, (TYP.).
11	PROPOSED LOCATION OF STOCKPILED SIGN AND PLANTER.
12	INSTALL NYSDOT RIGHT-OF-WAY PAVEMENT PER DETAIL 2/L5.1.
13	INSTALL CONCRETE DOUELING AT DOORWAY PER DETAIL 8/L5.1.

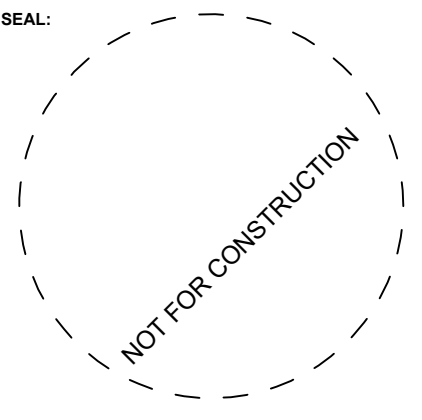


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HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

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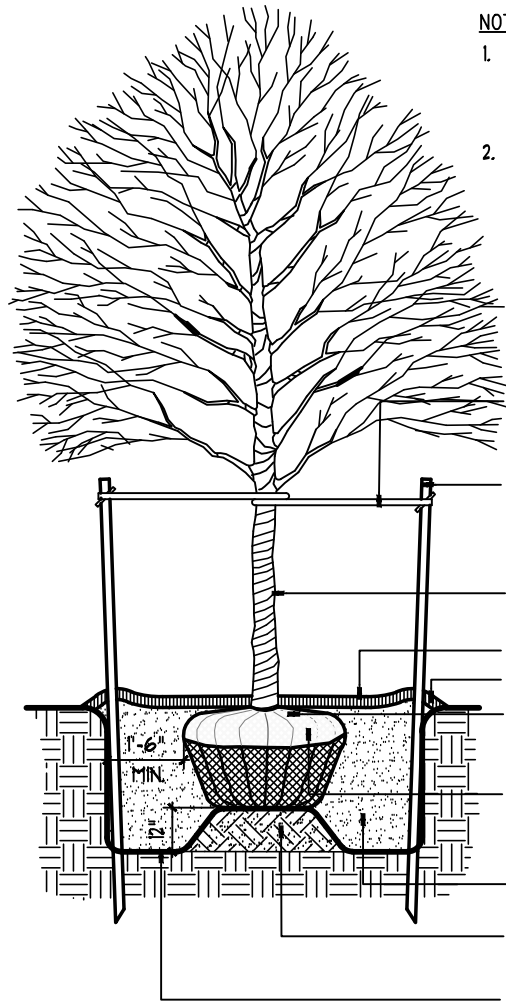
SITE LAYOUT

DATE ISSUED:
03/03/22

L3.1

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NOTES:

1. REMOVE ALL NONBIODEGRADABLE MATERIAL FROM THE ROOT BALL AND TREE PIT.
2. PRUNE TOP 1/3 OF CROWN BY THINNING AND SPACING BRANCHES. DO NOT CUT THE LEADER.

TREE GUYING - INSTALL WITH ARBORISTE (www.arborist.com) OR APPROVED EQUAL PER MANUFACTURER'S SPECIFICATIONS

TREE WRAP TO HOSE GUARDS

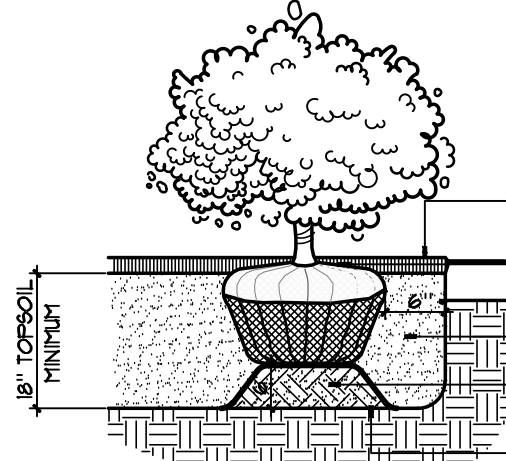
3" DEPTH MULCH
SOIL SAUCER
INSTALL ROOT FLARE FLUSH WITH ADJACENT FINISH GRADE.

REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL AND ALL SOIL MATERIAL ABOVE ROOT FLARE

PLANTING SOIL MIX

COMPACTED PLANTING SOIL MIX

UNDISTURBED SUBGRADE OR SOIL FILL



NOTES:

1. REMOVE ALL NONBIODEGRADABLE MATERIAL FROM THE ROOT BALL AND TREE PIT.
2. PRUNE TOP 1/3 OF ALL TOP GROWTH INCLUDING ALL BROKEN BRANCHES.
3. SPACE PLANTS WITHIN SHRUB BED AS SHOWN AND BASED ON NUMBER OF PLANTS REQUIRED.

3" DEPTH MULCH BED TO LIMITS SHOWN FLUSH TO ADJONING SURFACES

INSTALL ROOT FLARE FLUSH WITH ADJACENT FINISH GRADE.

PLANTING SOIL MIX

COMPACTED PLANTING SOIL MIX

UNDISTURBED SUBGRADE

SECTION

2
L32 TREE PLANTING
NOT TO SCALE

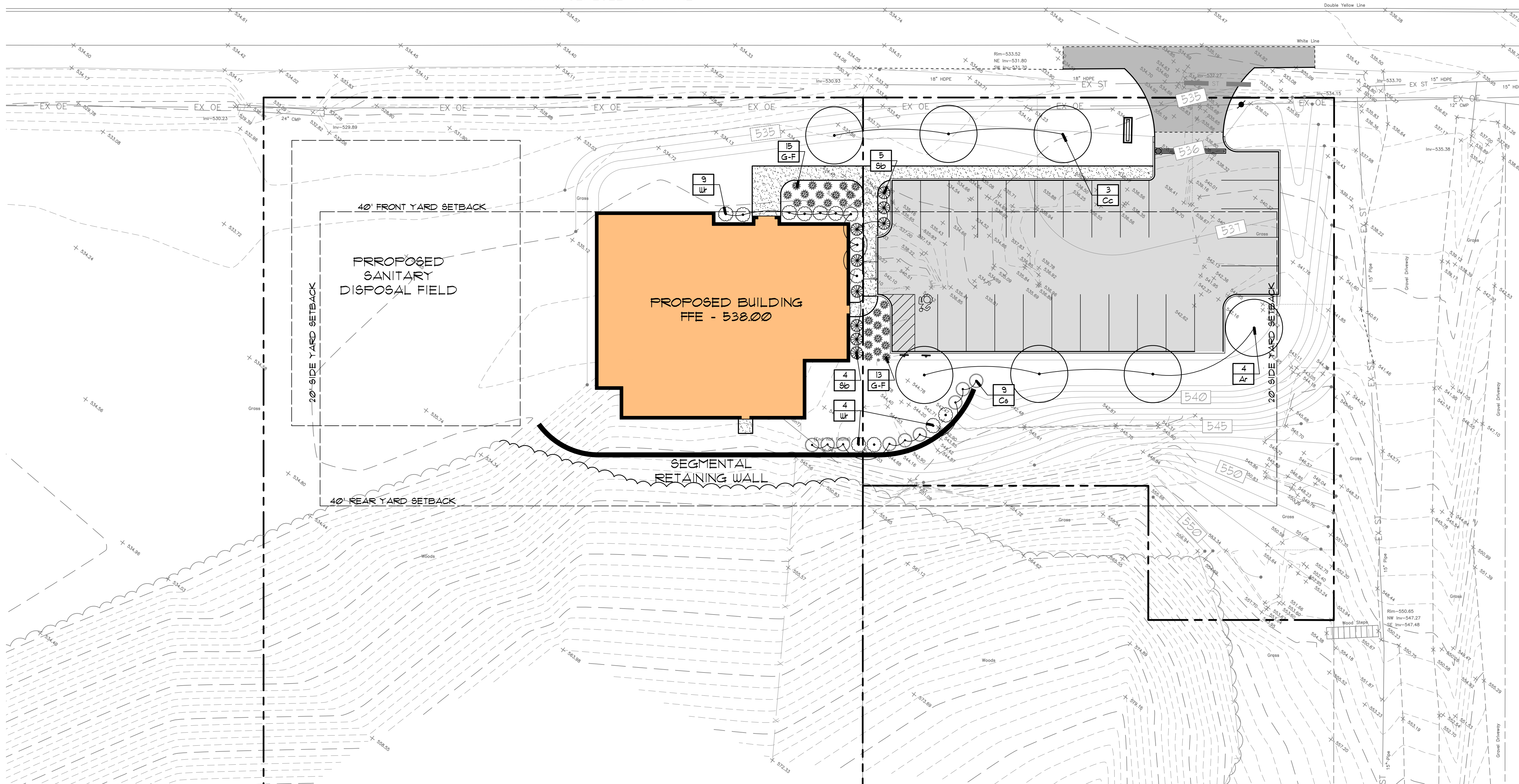
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SECTION

1
L32 SHRUB PLANTING
NOT TO SCALE

32-9300-02

NEW YORK STATE ROUTE 5
A.K.A. GENESEE TURNPIKE



LAYOUT PLAN

PLANT LIST

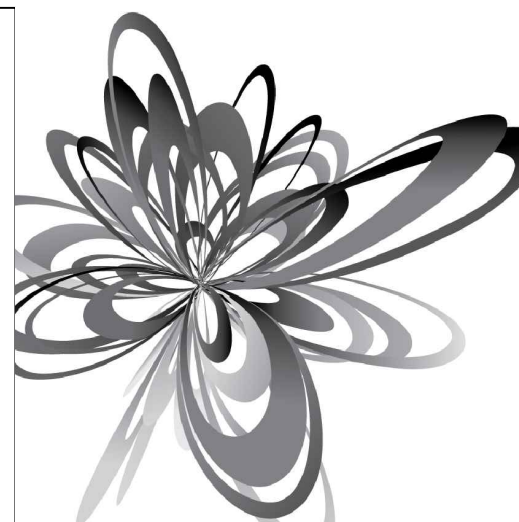
KEY	COMMON NAME	BOTANICAL NAME	CALIPER	HEIGHT	CONDITION
TREES					
Ar	AUTUMN BLAZE RED MAPLE	ACER FREEMANI	3" CAL.	-	B4B
Cc	AMERICAN REDBUD	CERCIS CANADENSIS	2.5" CAL.	-	B4B
EVERGREENS					
SHRUBS					
So	GOLD FLAME SPIREA	SPIREA BUMALDA 'GOLD FLAME'	-	18"-24"	-
Wf	WINE & ROSES WEIGELA	WEIGELA FLORIDA	-	-	5 GAL
Cc	Arctic Fire Dogwood	CORNUS STOLONIFERA	-	-	5 GAL
PERENNIALS and GRASSES					
G-F	DWARF FOUNTAIN GRASS	PENNISETUM 'HAMELN'	--	-	1 GAL

PLANT NOTES

3" DEPTH SHREDDED BARK MULCH WITH 18" OF SCREENED TOPSOIL.

INSTALL LANDSCAPE EDGING AS SPECIFIED.

GENERAL NOTE: ALL LANDSCAPING AND LAWN AREAS SHALL BE MAINTAINED BY OWNER. DEAD MATERIAL SHALL BE REGULARLY PRUNED AND NOURISHED TO MAINTAIN HEALTH.



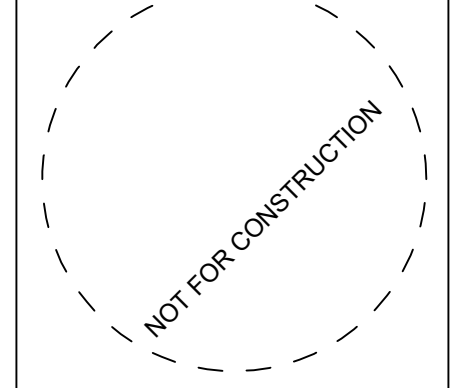
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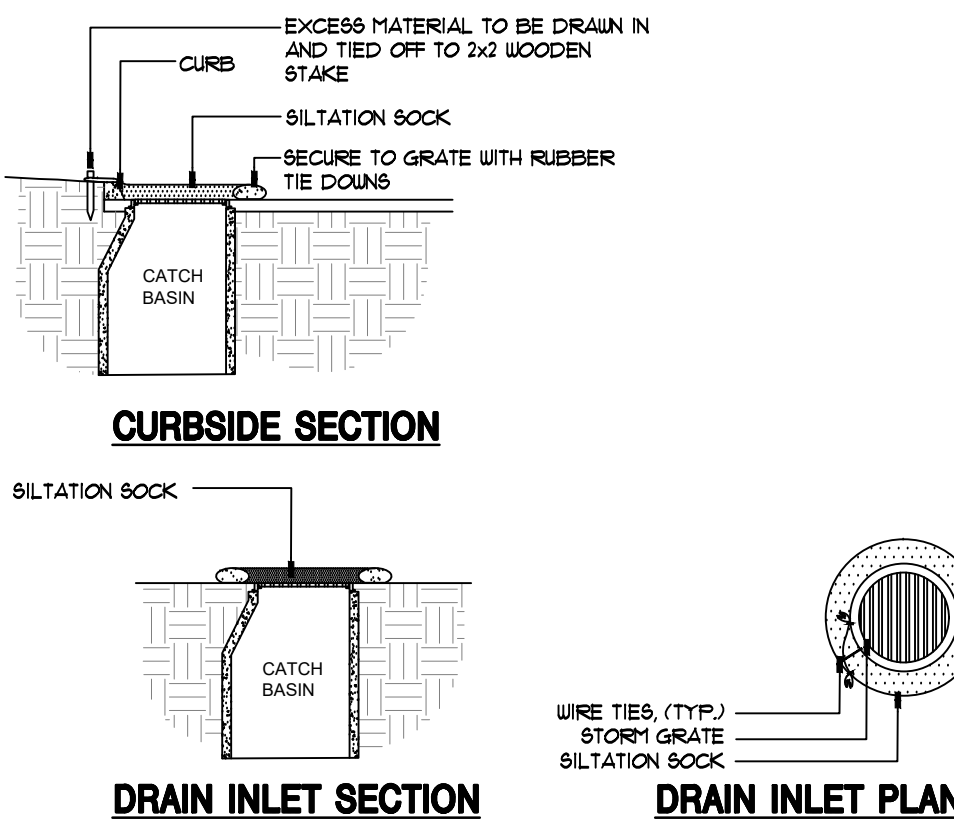
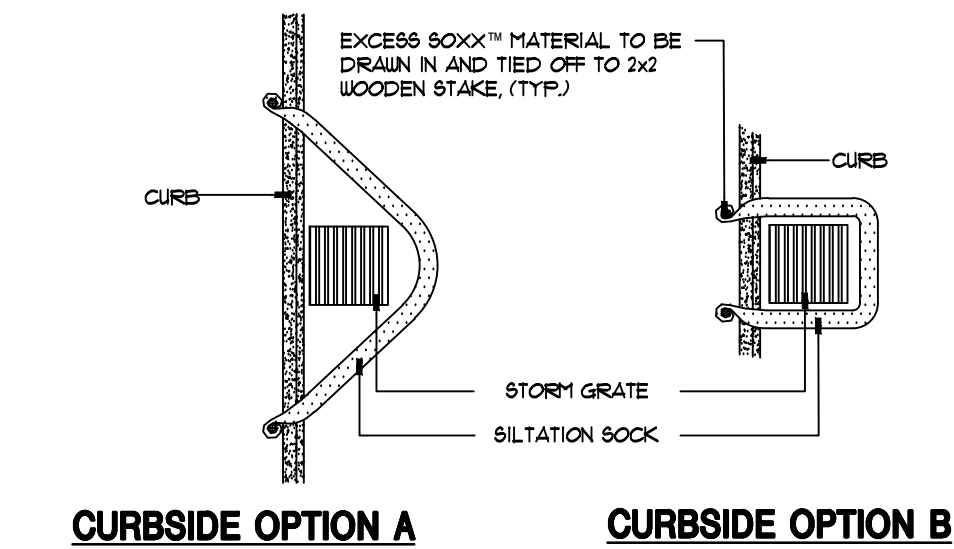
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PLANTING PLAN

DATE ISSUED: 03/03/22

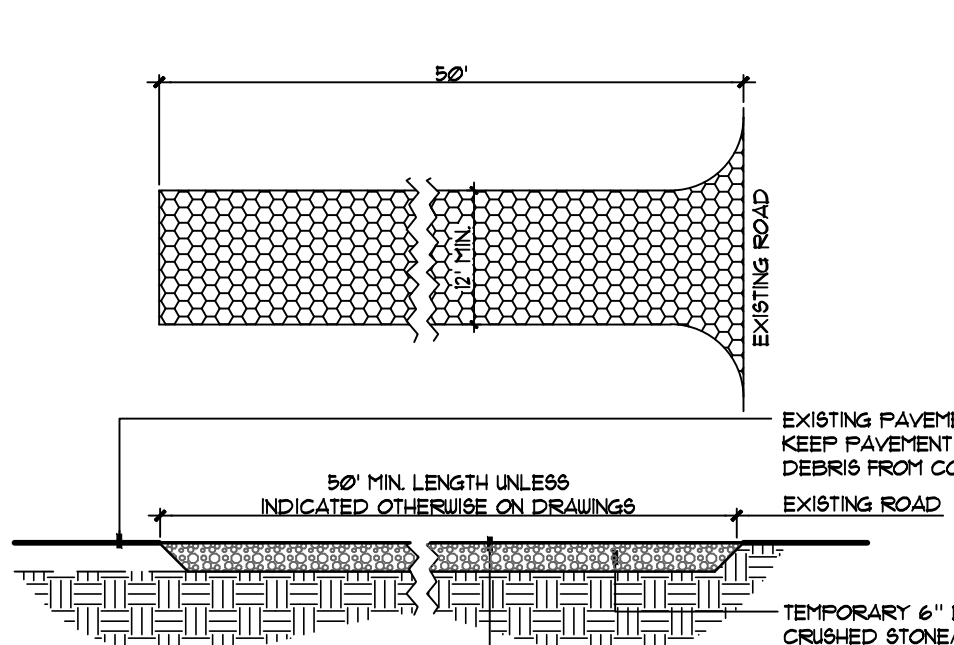
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NOTES:
1. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS.
2. FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

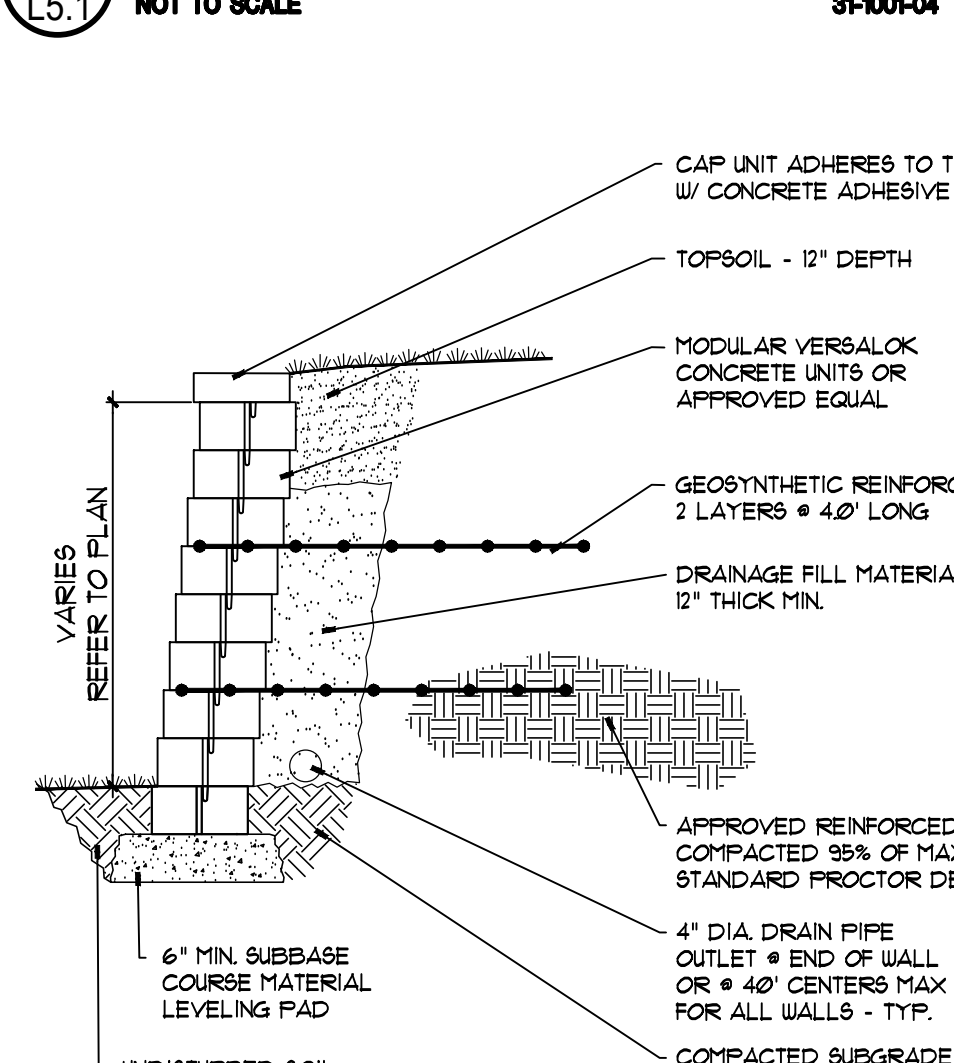
19 SILTATION SOCK INLET PROTECTION
NOT TO SCALE



NOTE: UNLESS OTHERWISE INDICATED ON THE DRAWINGS, INSTALL IN AREAS WHERE FREQUENT ON-SITE OFF-SITE TRAFFIC OCCURS.

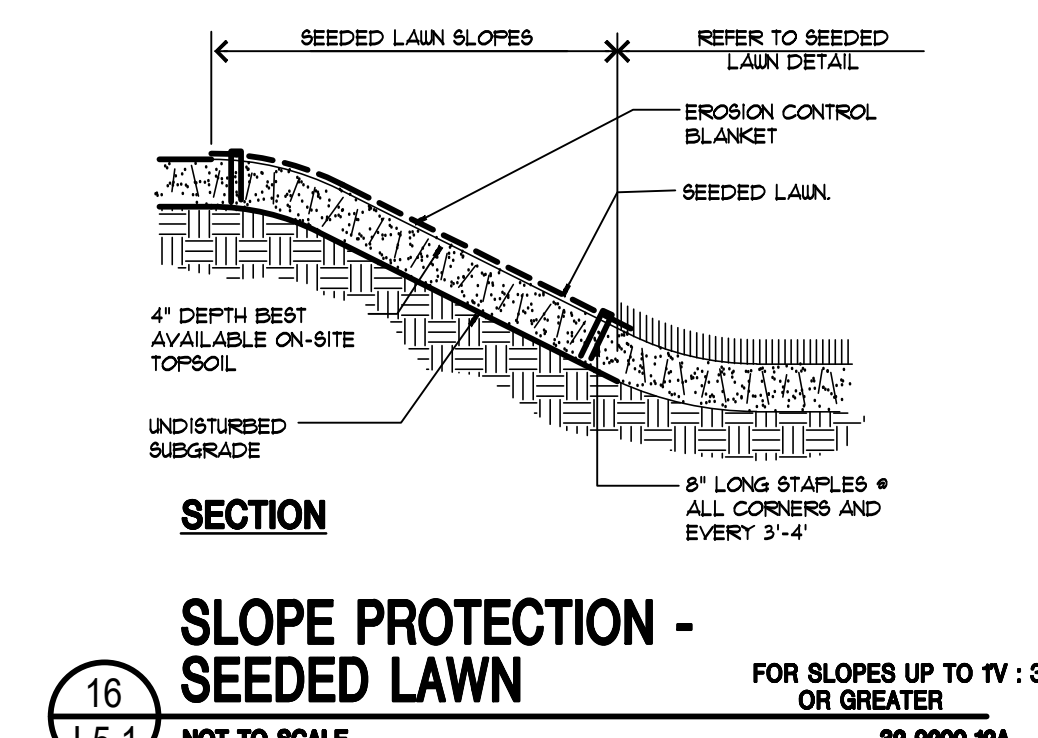
NOTES:
1. WIDTH-TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS, TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
2. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
3. SURFACE WATER-ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERT WITH 5:1 SLOPES WILL BE PERMITTED.
4. MAINTENANCE-THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
6. REFER TO SUPPLY SECTION 1 FOR NY'S STANDARDS AND SPECIFICATIONS FOR STABILIZED CONSTRUCTION ENTRANCE.

18 CONSTRUCTION ENTRANCE (MUDRACK)
NOT TO SCALE

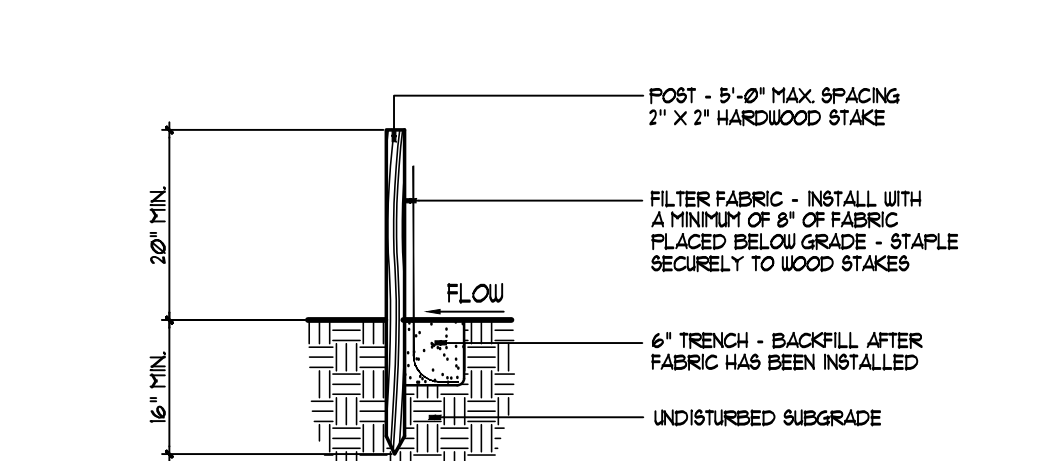


17 RETAINING WALL
NOT TO SCALE

NOTE: PROVIDE ENGINEERED AND PE STAMPED DRAWINGS OF RETAINING WALL FOR APPROVAL PRIOR TO CONSTRUCTION.

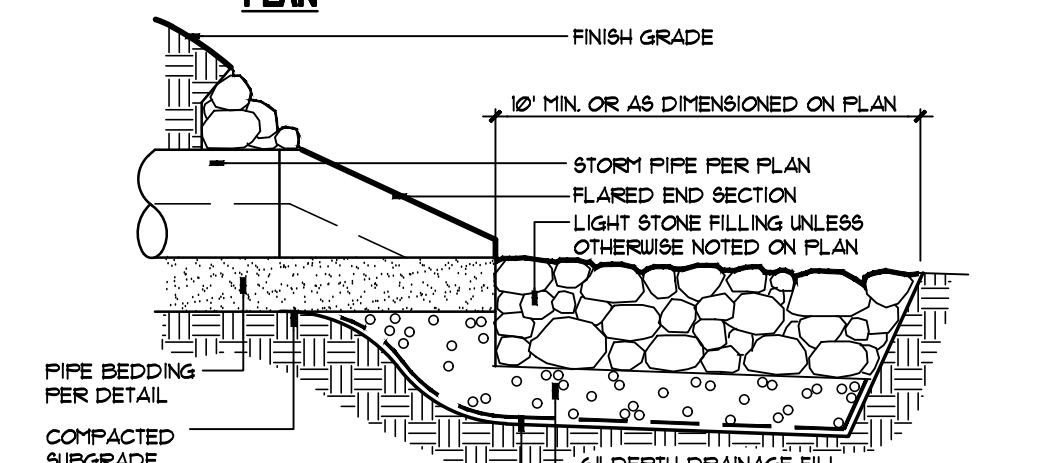
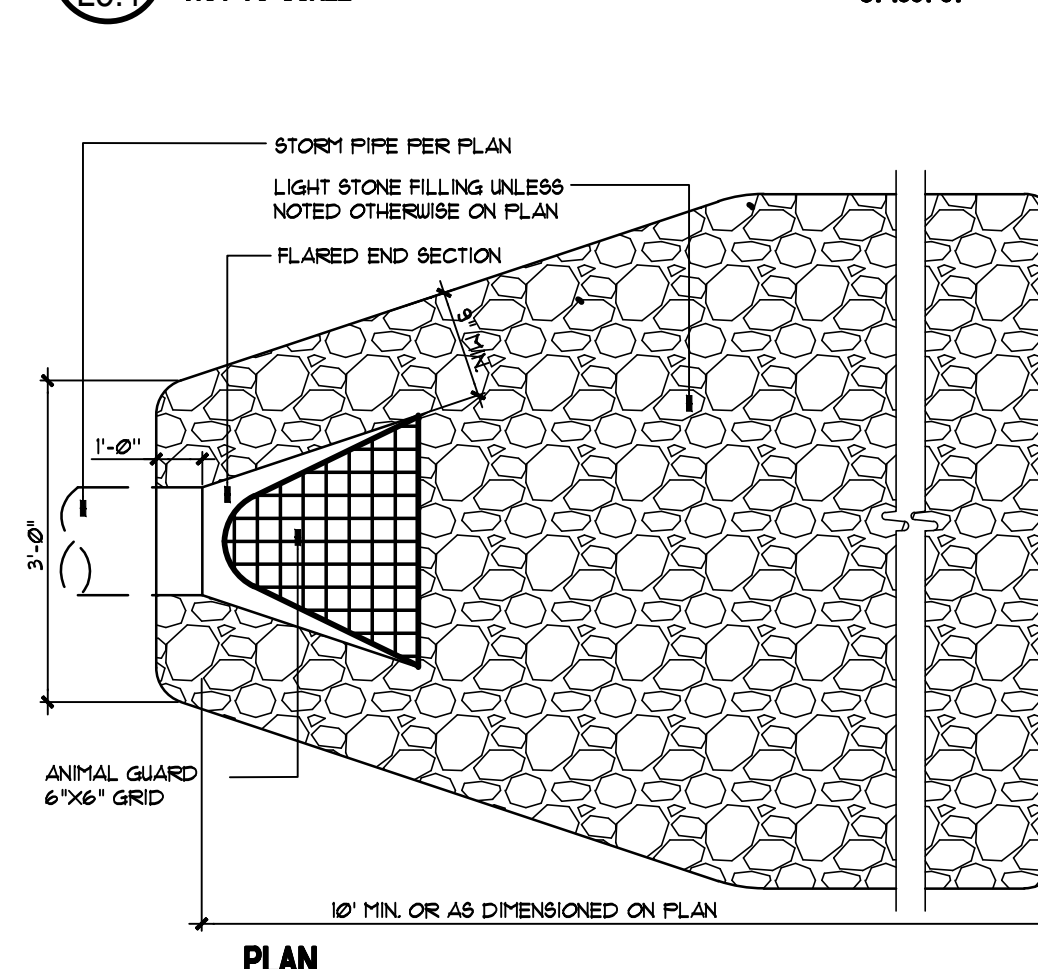


FOR SLOPES UP TO 1V: 3H OR GREATER
32-9200-12A



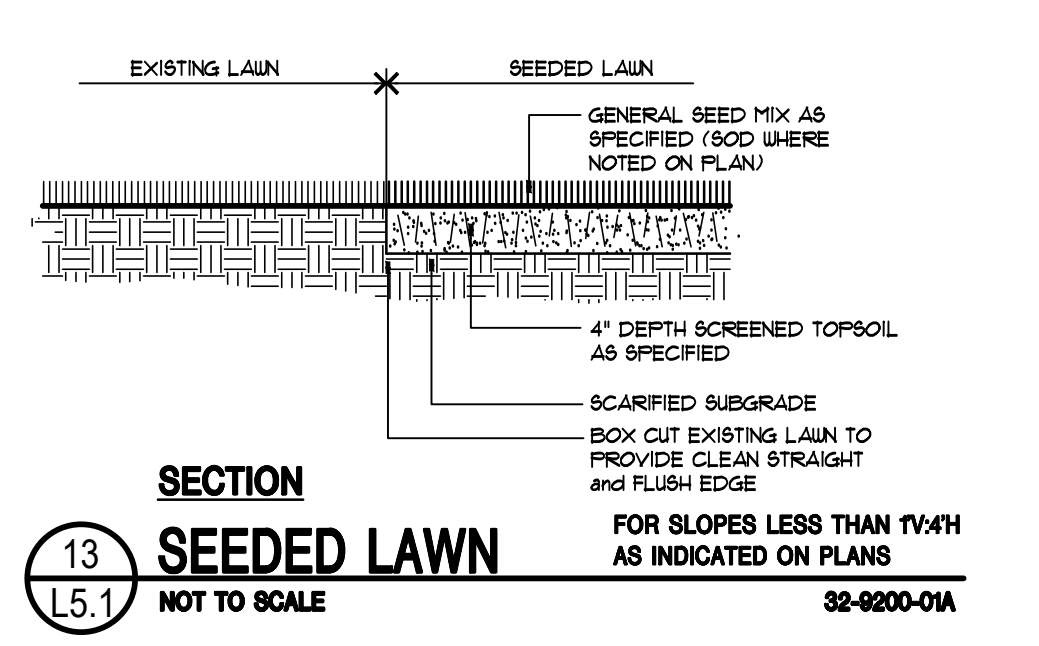
NOTES:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX (6) INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. FENCING SHALL BE INSPECTED MONTHLY, AND FOLLOWING MAJOR RAINFALLS.
5. THE FOLLOWING MATERIALS SHALL BE USED FOR CONSTRUCTION OF THE SILT FENCE:
POSTS: STEEL EITHER 1" OR 1 1/2" TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE 4-1/2 GA. 6" MAX MESH OPENING
FILTER CLOTH: FILTER X, TIRAFIL 100%, STABILINKA TADON OR APPROVED EQUAL.
6. REFER TO NY'S STANDARDS & SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR ADDITIONAL GUIDANCE.

15 SILT FENCE (SF)
NOT TO SCALE

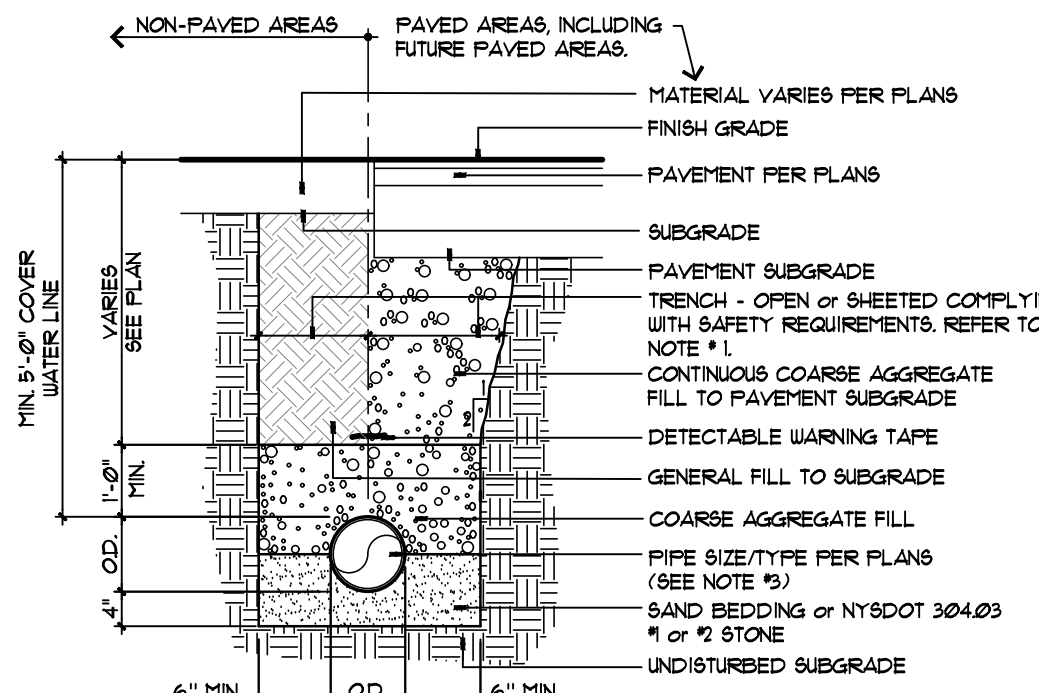


14 FLARED END SECTION
NOT TO SCALE

NOTE: FLARED END SECTION SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR ALUMINUM WITH SAFETY BAR SYSTEM ON END SECTIONS 15" OR LARGER.

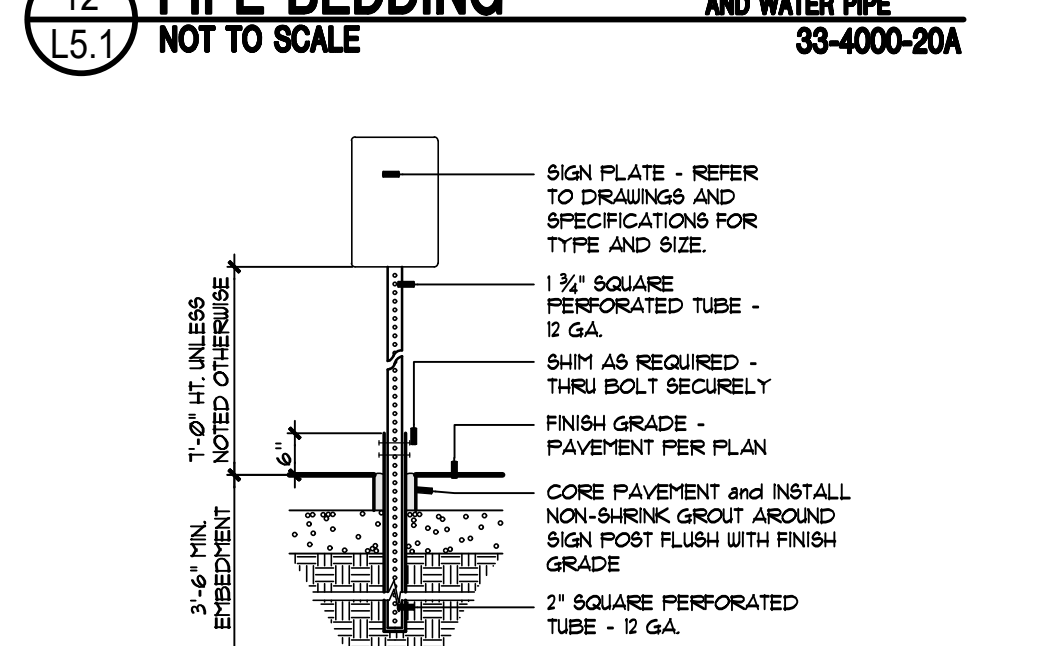


FOR SLOPES LESS THAN 1V:4H AS INDICATED ON PLANS
32-9200-01A



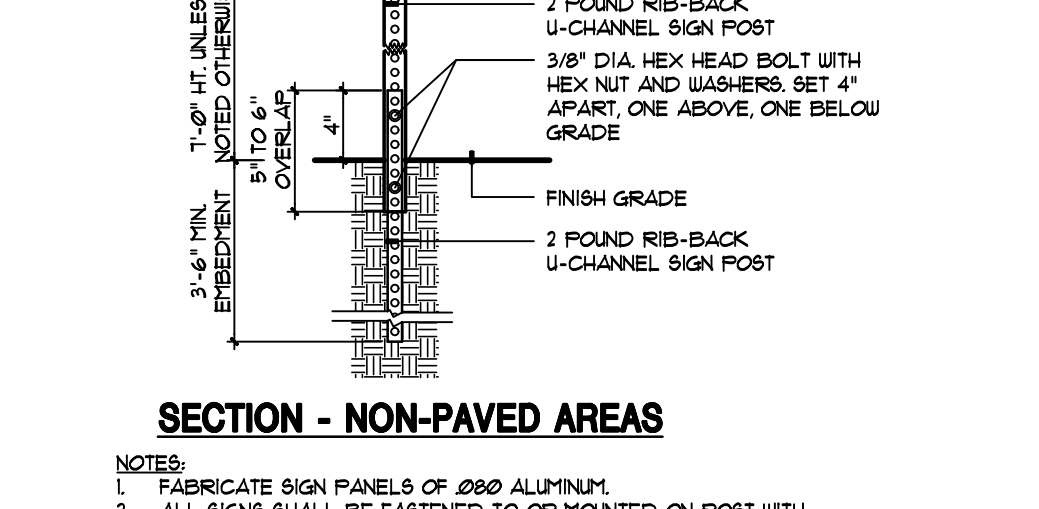
FOR STORM, SANITARY, AND WATER PIPE
33-4000-20A

12 PIPE BEDDING
NOT TO SCALE



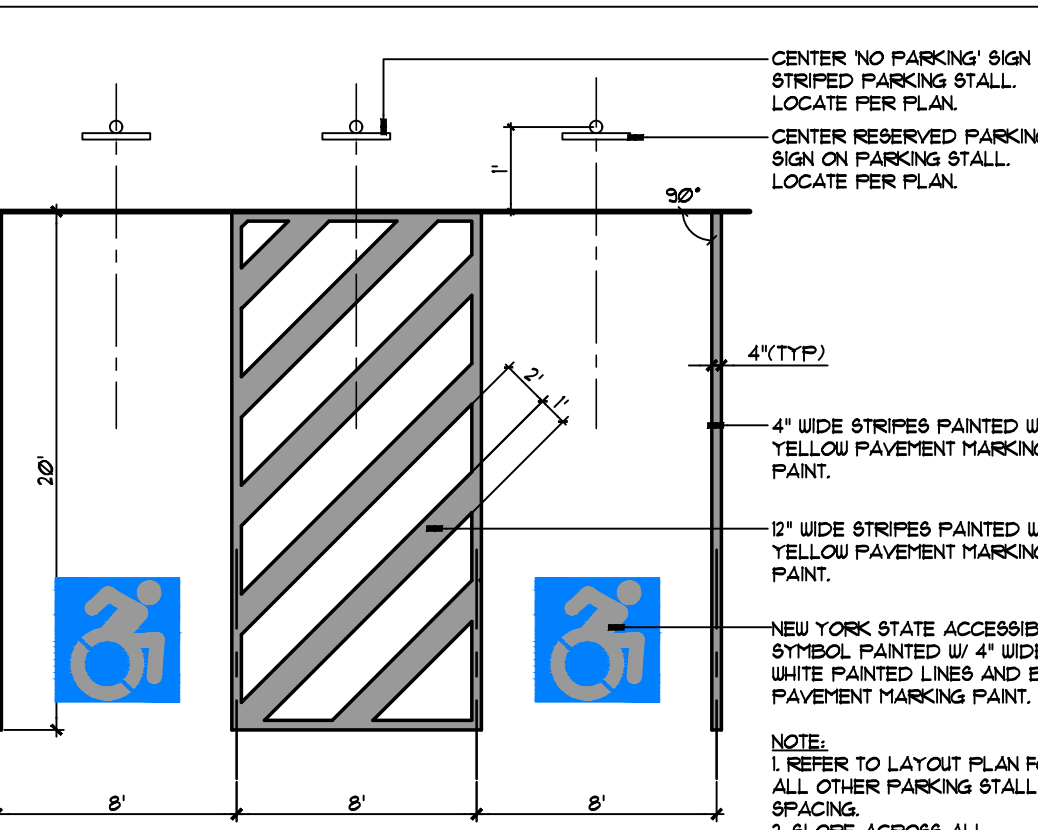
32-1919-100

8 CONCRETE DOWELING @ DOORWAY
NOT TO SCALE



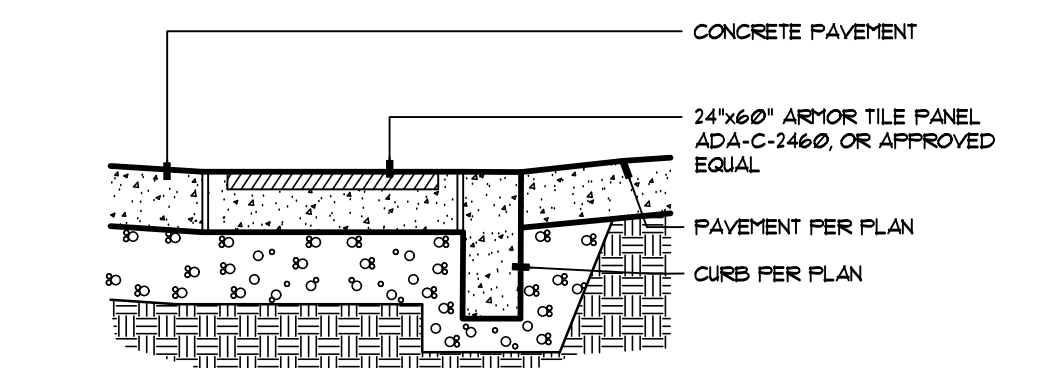
32-1919-05

7 CONCRETE CURB - INTEGRAL
NOT TO SCALE



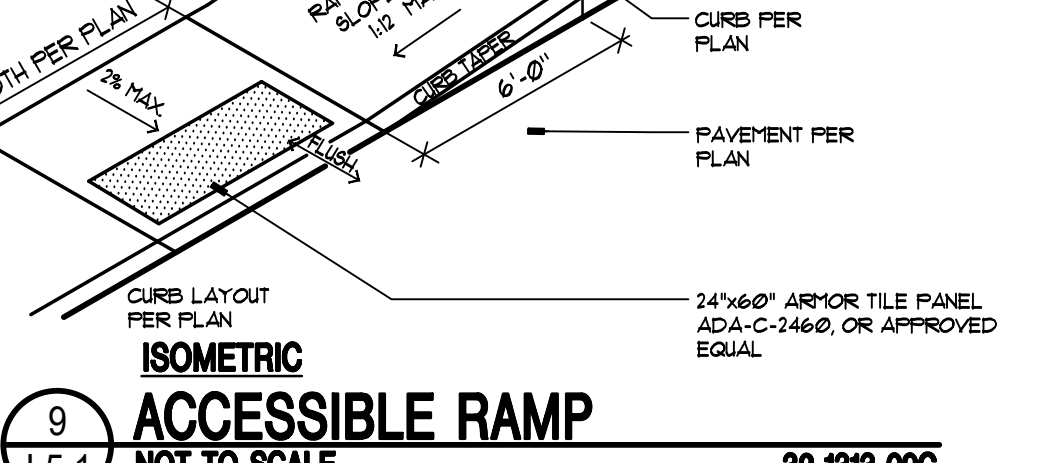
32-1723-01

10 RESERVED PARKING STALL
NOT TO SCALE



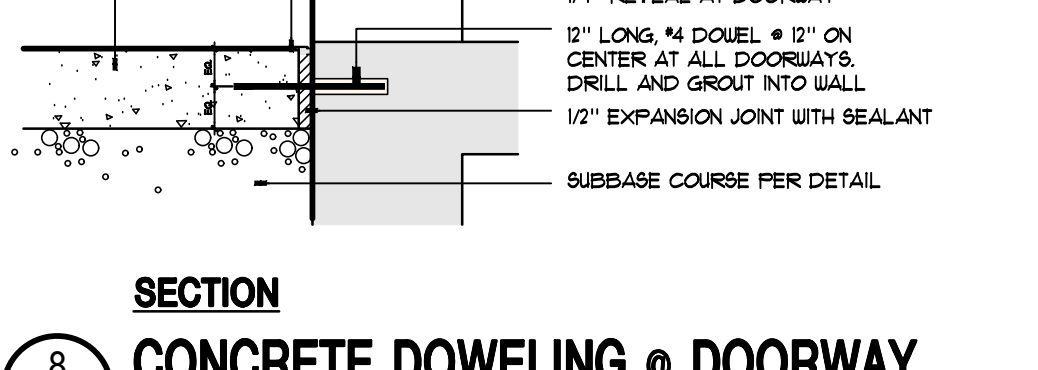
32-1919-09G

9 ACCESSIBLE RAMP
NOT TO SCALE



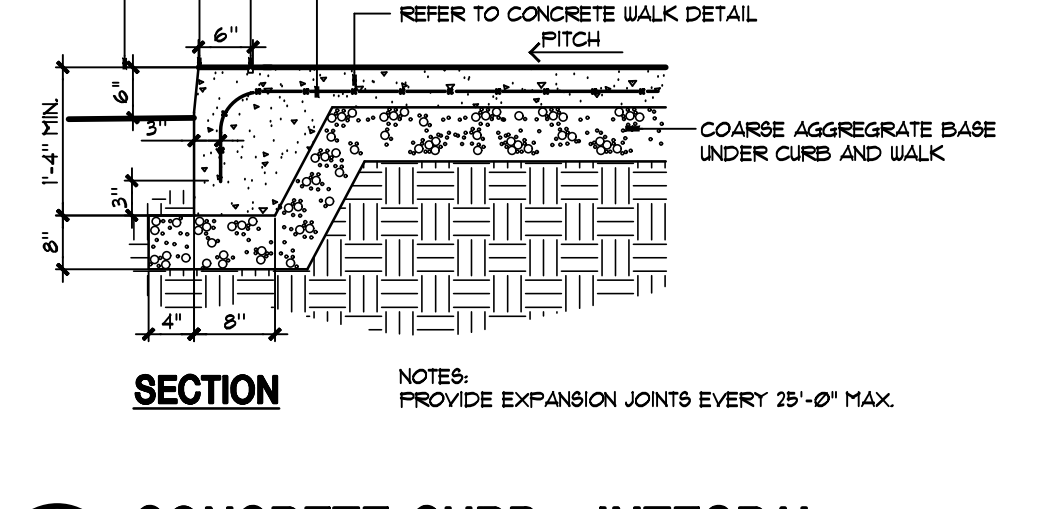
32-1919-01A

3 CONCRETE PAVEMENT
NOT TO SCALE



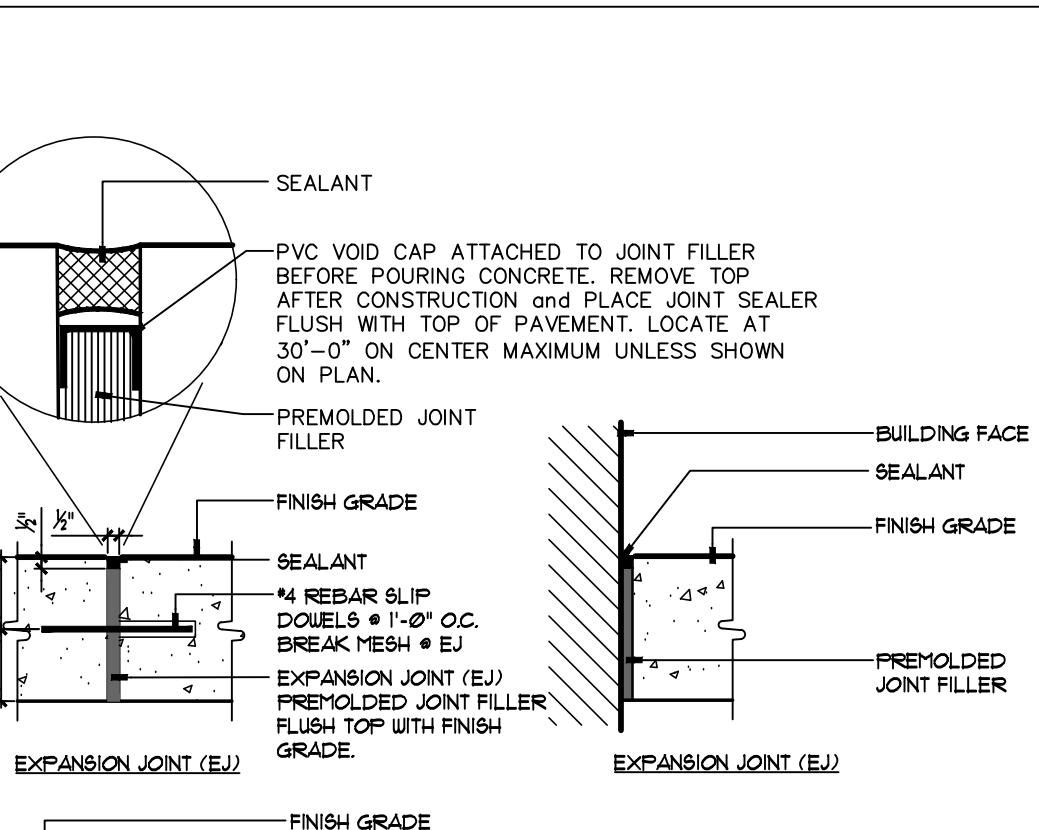
D2510-14

2 NYS DOT ASPHALT R.O.W. PAVEMENT
NOT TO SCALE



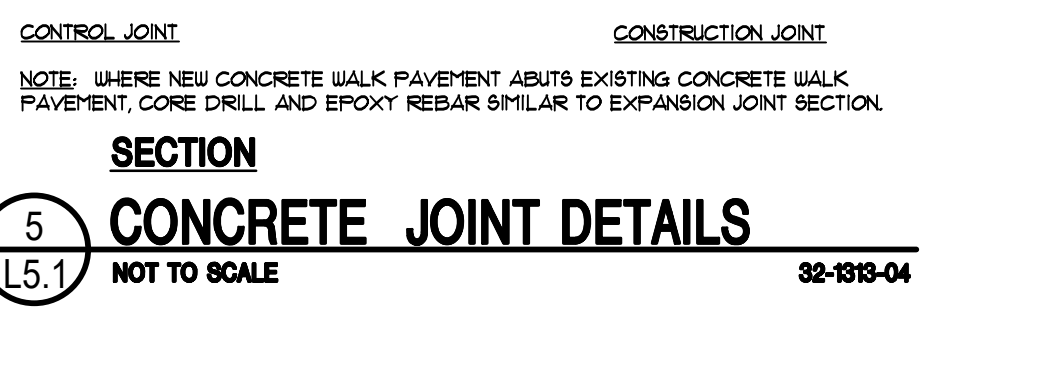
32-1919-02

1 ASPHALT PAVEMENT - PARKING
NOT TO SCALE



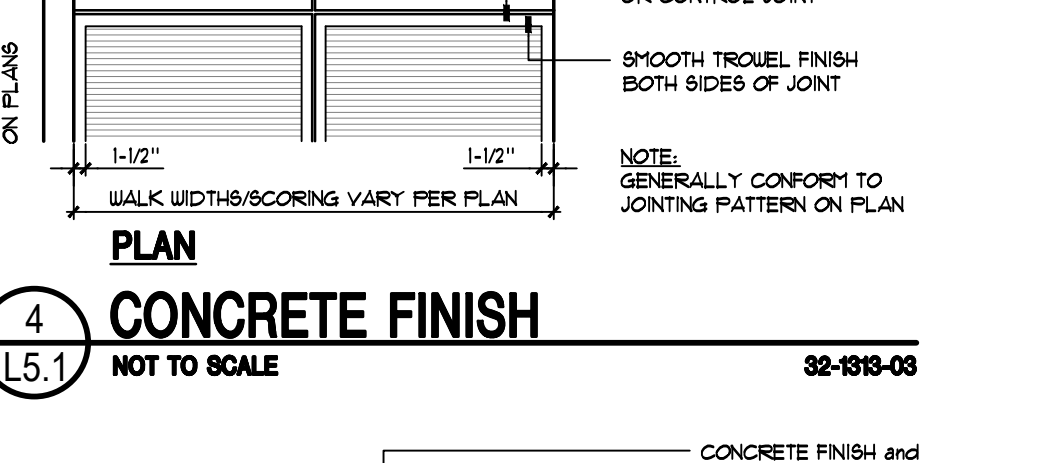
32-1919-04

5 CONCRETE JOINT DETAILS
NOT TO SCALE



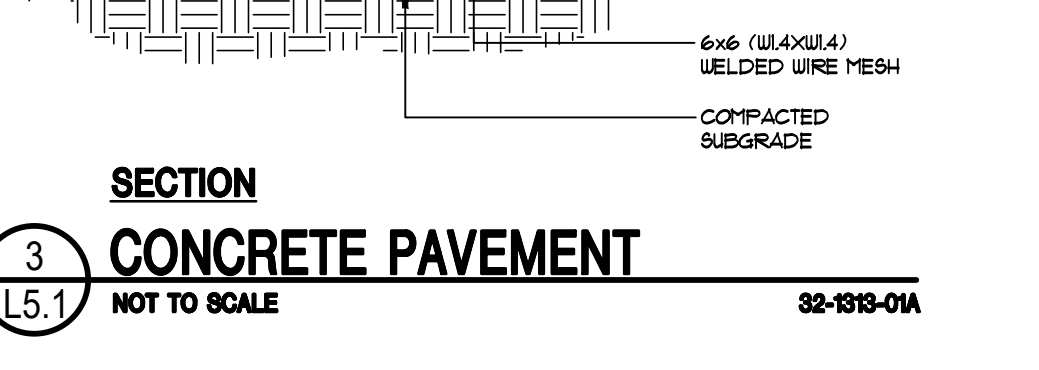
32-1919-03

4 CONCRETE FINISH
NOT TO SCALE



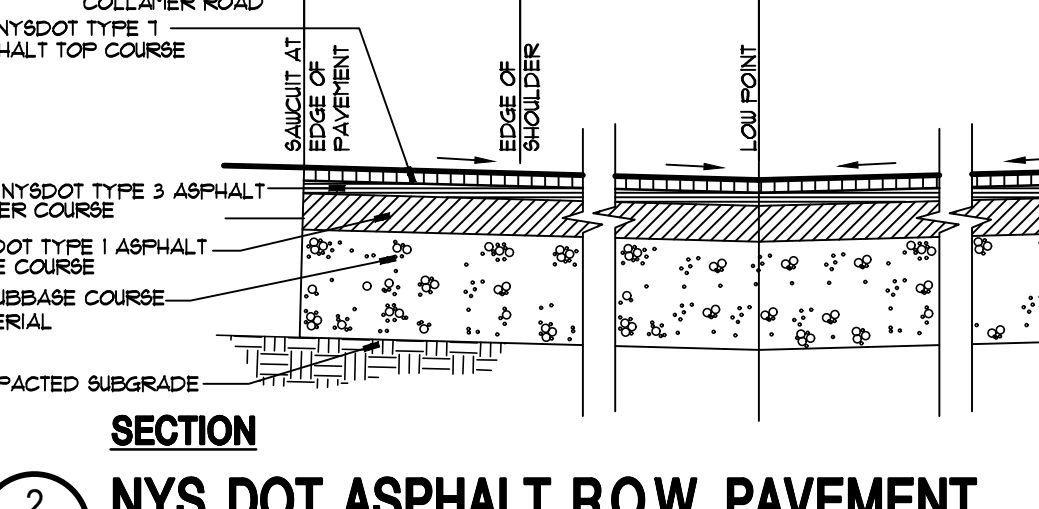
32-1919-100

8 CONCRETE DOWELING @ DOORWAY
NOT TO SCALE



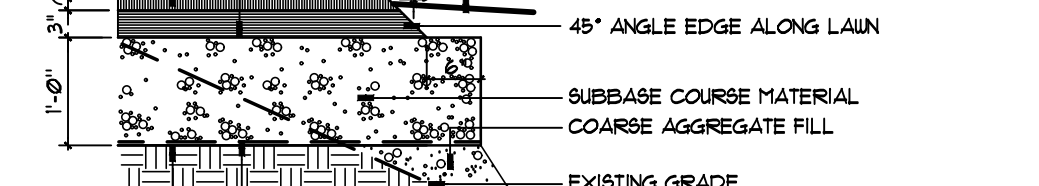
32-1919-05

7 CONCRETE CURB - INTEGRAL
NOT TO SCALE



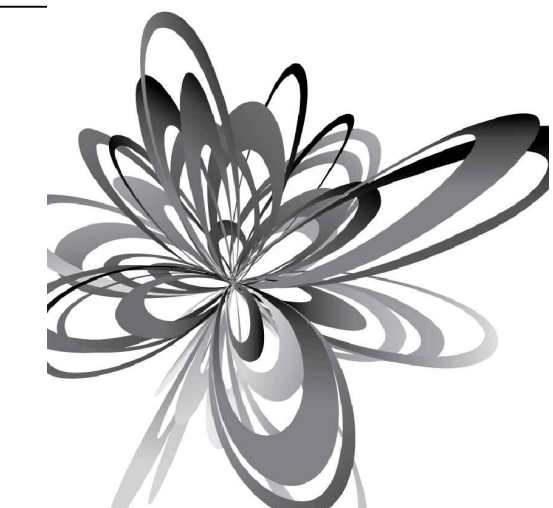
32-1919-01A

3 CONCRETE PAVEMENT
NOT TO SCALE



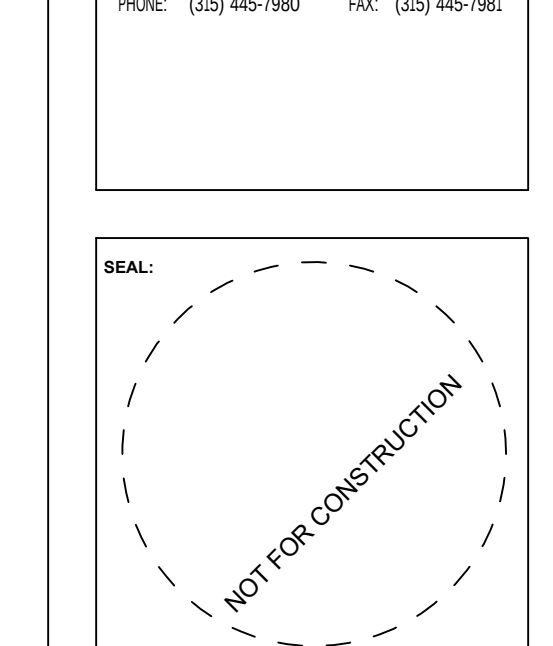
D2510-14

2 NYS DOT ASPHALT R.O.W. PAVEMENT
NOT TO SCALE



ASHLEY MCGRAW
25 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:
KEPLINGER FREEMAN ASSOCIATES
LANDSCAPE ARCHITECTURE & LAND PLANNING
6320 FLY ROAD, SUITE 209 EAST SYRACUSE, NEW YORK 13207
PHONE: (315) 445-7980 FAX: (315) 445-7981



FAYETTEVILLE VETERINARY HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
AM JOB NO.		

DETAILS

DATE ISSUED:
03/03/22

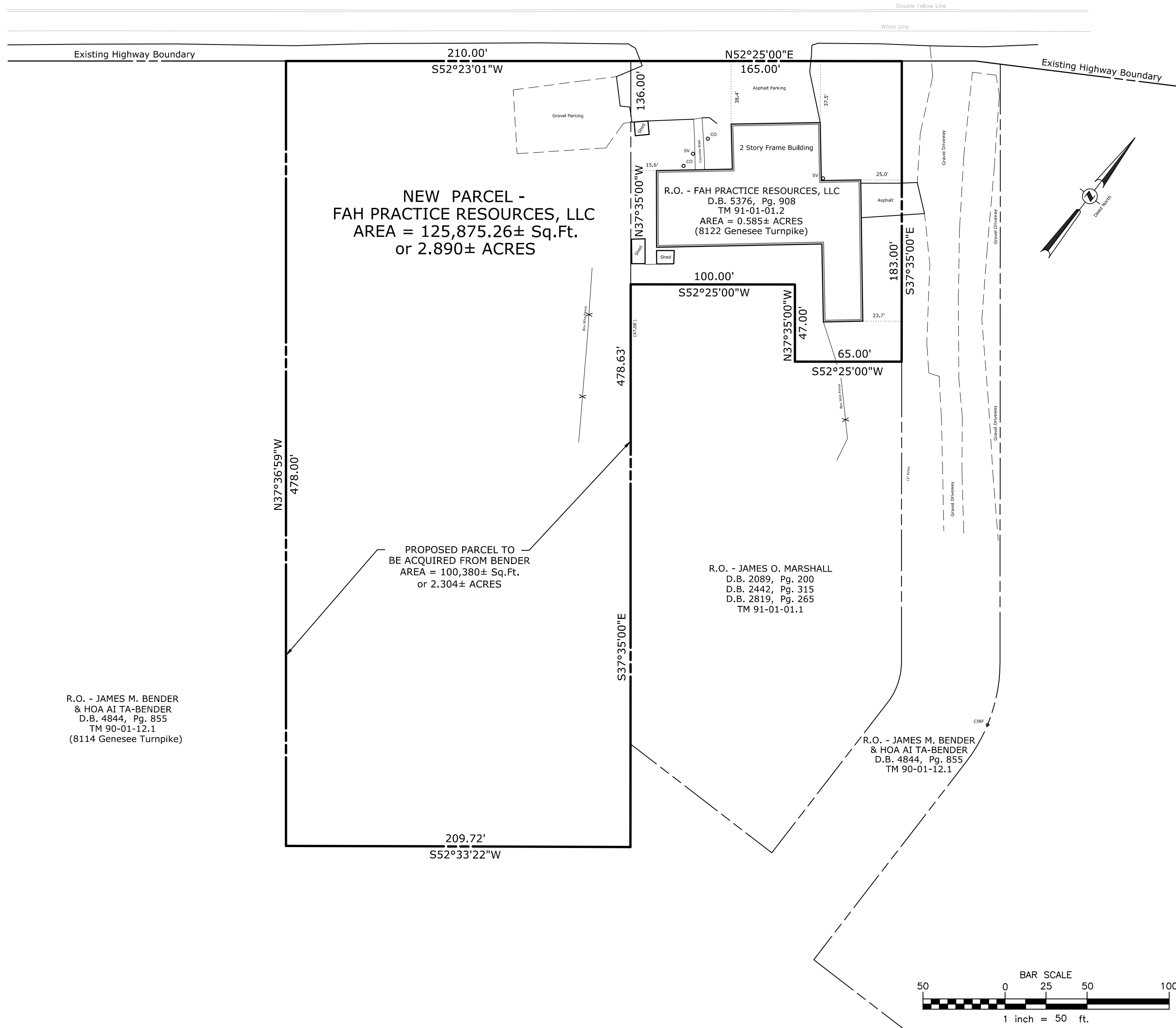
L5.1



- 1) NORTH ORIENTATION IS BASED ON DEED NORTH PER D.B. 5376, PG. 908.
- 2) VERTICAL DATUM BASED ON NAVD 1988 DATUM PER RTK GPS OBSERVATIONS.
- 3) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR UP TO DATE TITLE REPORT AND IS THEREFORE SUBJECT TO ANY EASEMENTS, RESTRICTIONS, COVENANTS OR ANY STATEMENT OF FACTS THAT SUCH DOCUMENTS MAY DISCLOSE.
- 4) UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM DATA OBTAINED BY FIELD SURVEY, PREVIOUS MAPS AND RECORDS, (AND PAROL TESTIMONY), THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION.
- 5) SURVEY WAS PERFORMED IN THE FIELD ON FEBRUARY 2 & 7, 2017.
- 6) SUBJECT TO A 20 FOOT UTILITY EASEMENT RESERVED EDWARD B. CHAPMAN, HIS SUCCESSORS AND ASSIGNS, PER D.B. 5376, PG. 908. EASEMENT TO CENTER ON EXISTING UTILITY LINES.



(S.H. 8025 - Fayetteville- Chittenango, Part 1)
(a.k.a. Genesee Turnpike)
(Width Varies)



	DAVID M. SLUSKI P.L.S. NO. 50105	DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.	LOT LINE ADJUSTMENT MAP FOR THE LANDS OF FAYETTEVILLE ANIMAL HOSPITAL & JAMES M. & HOA AI TA-BENDER 8114 & 8122 GENESEE TURNPIKE			
	8/28/18	△	Fix address in Title Block	dms	dms	dms	© 2018 C.T. MALE ASSOCIATES	PART OF LOT 67			
	△						APPROVED:	TOWN OF MANLIUS			
	△						DRAFTED : DMS	ONONDAGA COUNTY, NEW YORK			
	△						CHECKED : DMS	C.T. MALE ASSOCIATES			
	△						PROJ. NO : 16-6687	Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.			
	△						SCALE : 1" = 50 FT.	 			
	△						DATE : JULY 25, 2018	200 GATEWAY PARK DRIVE, BLDG. C, P.O. BOX 3246 SYRACUSE, NY 13229-3246 315-458-6498 • FAX 315-458-4427			
								SHEET 1 OF 1			
								DWG. NO: 17-0158			

I HEREBY CERTIFY THAT THIS SUBDIVISION PLAT WAS PREPARED BY ME AND WAS MADE FROM AN ACTUAL FIELD SURVEY ORIGINALLY COMPLETED BY US ON FEBRUARY 7, 2018.

Paul M. Hill

August 28, 2018

DAVID M. SLISKI, P.L.S. #50105

DATE _____

Expected
Fee: _____

TOWN OF MANLIUS
PLANNING DEPARTMENT
INITIAL APPEARANCE APPLICATION

DATE: 01/27/22

Name of Project: Fayetteville Veterinary Hospital

Applicant must submit 12 copies of all site plans, surveys, and supporting data with the final application before a planning board meeting can be scheduled.

Location of Project: 8122 E. Genesee St. Fayetteville, NY 13066

Type of Project:

☐ Division of Land ☐ Subdivision ☐ Accessory Use ☐ Zone Change ☒ Site Review ☐ Other _____

Developer: Fayetteville Veterinary Hospital

Phone: 315-637-9801

Address: 8122 E. Genesee St. Fayetteville, NY

Zip: 13066

Tax Map Number(#)/s: 091.-01-01.2

Present Zoning: (RA) Restricted Ag

Desired Zoning: _____

Total Acreage: 2.890

Total Number of Lots: 1

Property Owner/s: Fayetteville Veterinary Hospital

Phone: _____

Address: 8122 E. Genesee St. Fayetteville, NY

Zip: 13066

Tax Map#(s): 091.-01-01.2

Owner's Signature: Mike Bunnell

Printed Name: Mike Bunnell

Property Owner/s: _____

Phone: _____

Address: _____

Zip: _____

Tax Map#(s): _____

Owner's Signature: _____

Printed Name: _____

Use next page for additional known property owners' information

Planning Board Meeting Date Assignment: _____

Fee: _____

Paid: _____

Per: ☐ Credit/Debit Card ☐ Check ☐ Cash

Planning Board - Initial

TOWN OF MANLIUS
PLANNING DEPARTMENT
INITIAL APPEARANCE APPLICATION
(continued)

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

TOWN OF MANLIUS

DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit.*

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

I. Michael Bunnell, being duly sworn, deposes and says that (s) he is:

applicant, corporation officer, & property owner
(applicant, petitioner, corporation officer, property owner, etc.)

II. That deponent has read and is familiar with the provisions of the General Municipal Law, Section 809 which states:

- A. Every application, petition or request submitted for a site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provisions or any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state officer or any officer or employee of such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.
- B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:
- 1) is the applicant, or
 - 2) is an officer, director, partner or employee of the applicant, or
 - 3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
 - 4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.
- C. Ownership of less than five percent (5%) of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.
- D. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

CORPORATE ACKNOWLEDGEMENT

STATE OF NEW YORK)

) SS:

COUNTY OF ONONDAGA)

Michael Bunnett, being duly sworn, deposes and says the
s(he) is the managing member / President of Fayetteville Animal Hospital
corporation named in the within Application/Petition, that s(he) has read the foregoing affidavit and
knows the contents thereof; that the same is true of s(he) own knowledge, except as to those matters
therein stated to be alleged upon information and belief, and as to those matters s(he) believes it to be
true.

Michael Bunnett
Applicant Signature

Subscribed to me before this day 1st
day Of march, 20 22


Notary Public

LOURDES PILAR ROSARIO
Notary Public, State of New York
Qual. in Onon. Co. No. 02R06232755
My Commission Expires Dec. 13, 2022

III. That no Town of Manlius officer, employee or a relative of either, as defined in Section 809 General Municipal Law has any interest in this application.

-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: March 1, 20 22.

Date: _____, 20____.

Michael Bunnell
(Print Name)

(Print Name)

Michael Bunnell
(Signature)

(Signature)

Fayetteville Animal Hospital
(Entity Name)

(Entity Name)

Managing Member & President
By (Officer) (Title)

By (Officer) (Title)

8122 E. Genesee St., Fayetteville, NY 13064
(Mailing Address of Applicant)

(Mailing Address of Applicant)

315-637-9801
(Telephone Number)

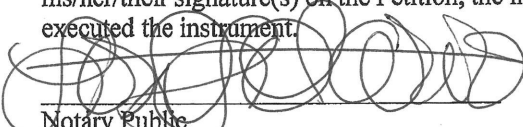
(Telephone Number)

ACKNOWLEDGEMENTS

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

On this 1st day of March in the year 20 22, before me, the undersigned, a notary public in and for said state, personally appeared Michael Bunnell,

_____, and _____ personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.


Notary Public

LOURDES PILAR ROSARIO
Notary Public, State of New York
Qual. in Onon. Co. No. 02R06232755
My Commission Expires Dec. 13, 2022



Joanne M. Mahoney
County Executive

Onondaga County Planning Board

RESOLUTION OF THE ONONDAGA COUNTY PLANNING BOARD

Meeting Date: March 23, 2022

OCPB Case # Z-22-52

- WHEREAS, the Onondaga County Planning Board, pursuant to General Municipal Law, Section 239 l, m and n, has considered and reviewed the referral for a SITE PLAN from the Town of Manlius Planning Board at the request of Fayetteville Veterinary Hospital for the property located at 8122 East Genesee Street; and
- WHEREAS, General Municipal Law Section 239-m allows the County Planning Board to review approval of site plans and the site is located within 500 feet of East Genesee Street (Route 5), a state highway, and a farm operation located in a NYS Agricultural District; and
- WHEREAS, the applicant is proposing to demolish an existing building and construct a new Veterinary Hospital facility with associated amenities on a 2.89-acre parcel in a Restricted Agriculture (RA) zoning district; and
- WHEREAS, the site is located to the southeast of Green Lakes State Park in a mostly wooded rural area with frontage on East Genesee Street; surrounding land uses include agricultural uses and residential uses, with sporadic commercial uses along East Genesee Street; and
- WHEREAS, per the Site Preparation Plan dated March 3, 2022, the site contains an existing two-story building that serves as the current Fayetteville Veterinary Hospital, a freestanding sign in front of the building, several stone walls and a retaining wall behind the building, and a concrete sidewalk to a small parking lot, all to be demolished; the remainder of the parcel contains a steep undeveloped hillside that slopes down to Route 5, and approximately half of an acre of farmland in the western corner of the parcel along Route 5; and
- WHEREAS, per the Site Layout plan dated March 3, 2022, the applicant proposes to remove all structures and construct a new 4,767 sf building to serve as the new animal hospital, with a new parking area, driveway and associated retaining walls in a new location at the front of the site; and
- WHEREAS, per the Site Layout plan, a new asphalt parking area for approximately 25 spaces is proposed where the existing building is located, connected with a new sidewalk; a new 20' wide driveway is proposed onto NYS Route 5 (E Genesee Street); per aerial photography, an informal field drive, presumed to remain, appears to the west on the parcel accessing the remainder of the parcel;
ADVISORY NOTE: Per the NYS Department of Transportation, all existing or proposed driveways on East Genesee Street must meet Department requirements and any proposed work within the state right-of-way is subject to a work permit; and
- WHEREAS, the applicant proposes to remove topsoil in strategic locations to level out the site; there is an existing segmental retaining wall to the southwest of the building that will remain; the applicant proposes to remove the vegetation in front of the wall; and
- WHEREAS, per the Planting Plan dated March 3, 2022, trees will be planted on the front and back sides of the parking lot and shrubs will be planted in front of part of the

segmental retaining wall and as landscaping on the front and side of the building; a sign is proposed in between the parking lot and the State right-of-way; ADVISORY NOTE: Per the NYS Department of Transportation, any existing or proposed signage must not obstruct sight distance and signage is not permitted in the state right-of-way; and

WHEREAS, per the referral notice, the site is served by an individual well and septic system; per the Environmental Assessment Form dated March 2, 2022 no new connections are proposed; per the Site Layout plan dated March 3, 2022, a new sanitary disposal field is proposed for the western corner of the property; the current septic field is not shown on any referral materials; and

WHEREAS, per the EAF, 2.89 acres of the site will be disturbed by the proposed project; the EAF states that stormwater will be conveyed to an existing swale located within the NYS Route 5 right-of-way; the Grading, Drainage and Utility Plan shows a trench drain and storm inlet to be installed in the entrance of the parking lot and an 18" culvert to be extended under the proposed driveway within the State right-of-way; the Site Erosion Control Plan dated March 3, 2022, shows silt fences, siltation socks, and slope protection will be used for erosion control; ADVISORY NOTE: Per the NYS Department of Transportation, additional stormwater runoff into the state's drainage system is prohibited; ADVISORY NOTE: Any project that cumulatively disturbs one acre or more of land must be covered under the NYS SPDES Permit; the municipality is advised to ensure that the applicant has obtained the appropriate permits from the NYS Department of Environmental Conservation prior to municipal approval; and

WHEREAS, surrounding lands are enrolled in NYS Agricultural District 3 and appear to contain active farmland; ADVISORY NOTE: Any application for a special use permit, site plan approval, use variance, or subdivision approval requiring municipal review and approval that would occur on or within 500 feet of a property within a NYS Certified Agricultural District is required by the NYS Agricultural and Markets Law to include an Agricultural Data Statement; and

WHEREAS, the site may contain the following natural communities: Maple-Basswood Rich Mesic Forest (per EAF Mapper); ADVISORY NOTE: Per the NYS Department of Environmental Conservation (DEC), a careful on-site evaluation should be done to confirm the size, status, and specific locations of any natural communities on the parcel, and to document the presence of any significant plants or wildlife; The applicant is advised to contact the DEC to determine if the project should be reviewed as part of the State Environmental Quality Review (SEQR) process; and

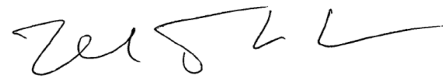
NOW THEREFORE BE IT RESOLVED, that the Onondaga County Planning Board recommends the following MODIFICATION(S) to the proposed action prior to local board approval of the proposed action:

1. Per the New York State Department of Transportation, a drainage study or Stormwater Pollution Prevention Plan (SWPPP) is required to show that the proposed development would not create additional stormwater runoff into the state's drainage system. The applicant must contact the Department to determine the scope of the study. The municipality must ensure any mitigation as may be determined by the Department is reflected on the project plans prior to, or as a condition of, municipal approval.

2. The applicant must contact the Onondaga County Health Department's Bureau of Public Health Engineering to confirm the location of the existing sewage disposal system to ensure it will not be impacted by the proposed animal hospital and parking lot. The Department must also formally accept or approve, respectively, any existing or proposed septic system to service this property prior to, or as a condition of, municipal approval of the site plan.

The Board also offers the following comment:

The applicant and municipality are encouraged to consider the use of green infrastructure, such as bioswales, permeable pavement, and planting islands to further reduce stormwater runoff and improve stormwater quality and avoid drainage into the Route 5 right-of-way.

A handwritten signature in black ink, appearing to read 'Martin E. Voss', with a stylized flourish at the end.

Martin E. Voss, Chairman
Onondaga County Planning Board

GML 239 Report of Final Action

NYS GML § 239-m.6. and n.6. require the referring body to file a report of the final action it has taken on a referred matter with the county planning agency within 30 days after the final action (separate from the minutes taken at the meeting). A referring body which acts contrary to a County Planning Board recommendation of MODIFICATION or DISAPPROVAL of a referred matter shall also set forth the reasons for the contrary action in such report.

This section to be completed by the Syracuse-Onondaga County Planning Agency

To: Onondaga County Planning Board **From:** Town of Manlius Planning Board

Fax: 435-2439 **Phone:** 435-2611

Re: Applicant: Fayetteville Veterinary Hospital

Address: at 8122 East Genesee Street

Referral Type: SITE PLAN

OCPB Date: March 23, 2022

OCPB Action: Modification

OCPB Case #: Z-22-52

The local board took the following action regarding the above referenced referral (Check one box. If checking Other, please specify the final action taken. Use the space at the bottom of the report to identify reasons if acting contrary to the OCPB recommendation.):

- ☐ Approved the proposed action with regard to the OCPB's No Position or No Position with Comment.
- ☐ Approved the proposed action as modified by the OCPB.
- ☐ Approved the proposed action contrary to some of the modifications recommended by the OCPB.*
- ☐ Approved the proposed action contrary to all of the modifications recommended by the OCPB.*
- ☐ Approved the proposed action contrary to the disapproval recommended by the OCPB.*

- ☐ Disapproved the proposed action with regard to the OCPB's no position or no position with comment.
- ☐ Disapproved the proposed action with regard to the recommended modification(s) by the OCPB.
- ☐ Disapproved the proposed action as recommended and for reasons set forth by the OCPB.
- ☐ Disapproved the proposed action as recommended but for reasons other than those set forth by the OCPB. (Please list reasons below for local disapproval.)

☐ Other _____

Local Board Date: _____

*List reasons for acting contrary to the OCPB recommendation and include a copy of the local board resolution. Attach additional reasons on a separate sheet of paper as necessary.



Onondaga County Planning Board

GML 239 Referral Notice

Referring Municipality/Board: Town of Manlius Planning Board

Referral Contact: Lisa Beeman

Contact Email/Phone: lbeeman@townofmanlius.org/ 315-637-8619

Type of Referral: ☒ General Municipal Law §239 Review ☐ Informal Review ☐ 3-Mile Limit Review

1. Project Applicant: Fayetteville Veterinary Hospital 2. Site Address: 8122 East Genesee Street 13066

3. Tax ID Number(s): 091.-01-01.2 4. Total Acres: 2.89

5. Current Zoning: RA/CA 6. Current Land Use: Vet Hospital

7. Project Description: Demolish existing building and Build a new Vet Hospital.

Please indicate the existing AND proposed water and wastewater service. The notes field is available to provide further details which may better describe the proposed conditions, particularly for projects with multiple lots/structures.

Water Service

8a. Existing: ☐ Municipal
☒ Individual Well
☐ None

Provider: _____

8b. Proposed: ☐ New or Additional Municipal Connection
☐ New or Additional Individual Well
☒ No Change

Wastewater Service

9a. Existing: ☐ Municipal Sanitary Sewer
☒ Individual Septic System
☐ None

Provider: _____

9b. Proposed: ☐ New or Additional Municipal Connection
☐ New or Additional Individual Septic System
☒ No Change

Notes: _____

10. ☒ OCPB Jurisdiction (check ALL that apply and specify)

- ☐ Text Adoption/Amendment -or- ☒ Site is located within 500 feet of:
- ☐ a municipal boundary: _____
 - ☒ a state or county thruway/highway/roadway: State Route 5
 - ☐ an existing or proposed state or county park/recreation area: _____
 - ☐ an existing or proposed county-owned stream or drainage channel: _____
 - ☐ a parcel containing a state or county-owned building/institution: _____
 - ☐ a farm operation located in a New York State Agricultural District (include Ag Data Statement pursuant to AML §305-a)

Referred Action(s)

If referring multiple actions related to the same project, identify the referring municipal board if different from above.

11. ☐ Text Adoption -or- ☐ Text Amendment Referring Board: _____

(Includes: adoption of and amendments to comprehensive plans, local laws, zoning ordinances, subdivision regulations)

Please enclose a document with changes tracked OR the existing and proposed text with a summary of the proposed change(s).

Summary of the proposed additions/changes: _____

12. ☐ Zone Change (Includes map amendments)

Referring Board: _____

Proposed Zoning District: _____ Number of Acres Affected: _____

Purpose and Proposed Use: _____

13. ☒ Site Plan -or- ☐ Project Site Review**Referring Board:** Town of Manlius Planning BoardProposed Use/Improvements: Demolish existing building and Build a new Vet Hospital.**14. ☐ Special Permit****Referring Board:**

Section of local zoning code that requires a special permit for this use: _____

Purpose: _____

15. ☒ Preliminary Subdivision -or- ☐ Final Subdivision **Referring Board:** Town of Manlius Planning BoardName of Subdivision: Fayetteville Veterinary Hospital

Number of Proposed Lots and Use Type (residential and/or commercial): _____

Is this a cluster subdivision pursuant to Section 278 of the New York State Town Law? ☐ Yes ☒ No**16. ☐ Use Variance****Referring Board:**

Section(s) of local zoning code to which the variance is being sought: _____

Describe how the proposed project varies from the above code section: _____

17. ☐ Area Variance**Referring Board:**

Section(s) of local zoning code to which the variance is being sought: _____

Describe how the proposed project varies from the above code section: _____

18. ☐ Other Authorization**Referring Board:**

Indicate the referable action and provide any other applicable details: _____

SEQR Information**Action (check one):**

- ☐ Type I
☐ Type II
☐ Unlisted Action

Determination of Significance (if known):

- ☐ Positive Declaration – Draft EIS Required
☐ Conditional Negative Declaration (for Unlisted Actions only)
☐ Negative Declaration
☐ No Finding (Type II Actions only)

Lead Agency (if known): _____ **Date Lead Agency Assigned:** _____

In order for a referral to be considered complete, *the Type of Action must be classified, and the appropriate EAF (Short or Long EAF) must be filled out as required under SEQR*, except in the case of Type II Actions which do not require an EAF. If the municipality possesses or will be requiring additional materials in order to make a determination under SEQR, or if a determination has been made, those materials are also required for the referral to be considered complete.

Attachments

- | | | | |
|---|--|---|--------------------------------------|
| ☒ Survey | ☒ Subdivision Plat | ☒ EAF/Related Materials | ☐ Laws/Texts |
| ☒ Site Plan | ☒ Local Application Form | ☐ Ag Data Statement | ☐ Other _____ |

This referral, as required by NYS GML §239 l, m & n, includes all materials required by and submitted to the referring body as an application on the proposed action, including all materials required by the referring body in order to make its determination of significance pursuant to SEQRA.

Lisa Beeman/ Clerk

315-637-8619/ lbeeman@townofmanlius.org

Name/Title of Person Completing This Form

Phone/Email

Transmittal Date

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PROJECT LOCATION



NOTE: THE PROPERTY OWNER IS RESPONSIBLE FOR ALL REQUIRED FUTURE MAINTENANCE OF ON-SITE STORMWATER FACILITIES.

GENERAL NOTES

X-RAY ANIMAL GEN NOTES

- TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY CT MALE ASSOCIATES SURVEYORS, D.P.C. SYRACUSE, NY, DATED JANUARY 6, 2017.
- OWNER AND ARCHITECT DO NOT CONFIRM THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION. CONTRACTOR IS RESPONSIBLE FOR THOROUGH EXAMINATION AND VERIFICATION OF ALL EXISTING SURFACE AND SUBSURFACE CONDITIONS AFFECTING THE NATURE, SCOPE, COMPLEXITY AND COST OF THE CONTRACT WORK. ADDITIONAL INFORMATION ON EXISTING CONDITIONS HAS BEEN ADDED TO THE DRAWINGS BASED ON THE LANDSCAPE ARCHITECT'S OBSERVATIONS BUT IS NOT INTENDED TO AND DOES NOT ALTER THE SURVEY INFORMATION. REFER TO SURVEY NOTES FOR ADDITIONAL INFORMATION.
- SAW CUT FOR PAVING REMOVALS. EXTEND REMOVAL LINES TO INCLUDE ANY ADJOINING BROKEN OR DETERIORATING PAVING. CAREFULLY REMOVE STOCKPILE AND PROTECT ANY ITEMS NOTED FOR SALVAGE. ALL DEMOLITION RUBBLE, DEBRIS AND EXCESS SOILS TO BE PROMPTLY REMOVED FROM SITE. STRIP AND STOCKPILE SUFFICIENT EXISTING ORGANIC TOPSOILS FOR RESPREADING AS REQUIRED ON DISTURBED AND REGRADED AREAS TO BE ESTABLISHED AS LAWN AND FOR REPAIR OF DISTURBED EXISTING LAWNS TO REMAIN. STOCKPILE ALL MATERIALS IN APPROVED LOCATIONS WITHOUT INTERFERING WITH OTHER CONTRACTOR WORK, SCHOOL TRAFFIC OR DRAINAGE.
- ALL FILL/BACKFILL OF EXCAVATIONS AND VOIDS RESULTING FROM REMOVALS AND RELATED WORK UNDER PROPOSED OR REPLACEMENT PAVING AREAS SHALL ONLY BE COARSE AGGREGATE FILL OR SUBBASE COURSE MATERIAL THOROUGHLY COMPACTED.
- PROTECT ALL FACILITIES AND IMPROVEMENTS ON AND ADJOINING THE PROPERTY WHICH ARE NOT SPECIFICALLY IDENTIFIED FOR REMOVAL. VERIFY LOCATIONS AND DEPTHS OF ALL SUBSURFACE UTILITIES TO REMAIN PRIOR TO ANY ADJACENT REMOVAL AND EXCAVATION WORK.
- ALL EXISTING FEATURES SHALL REMAIN UNLESS OTHERWISE NOTED. IF THE CONTRACTOR DAMAGES ANY OF THE EXISTING ON-SITE FACILITIES TO REMAIN (TREES, PAVEMENTS, UNDERGROUND UTILITIES, STRUCTURES, ETC.) WHETHER SHOWN ON THE PLANS OR NOT, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE SUCH ITEMS AT HIS OWN EXPENSE AND ASSUME ALL RESPONSIBILITY FOR SUCH DAMAGE WITHOUT ANY ADDITIONAL COST TO THE OWNER. REPLACEMENT MATERIAL SHALL BE SAME QUALITY AND QUANTITY AS ORIGINAL.
- THE CONTRACTOR SHALL CONFIRM EXISTING GRADES AND LOCATIONS OF ALL EXISTING FEATURES WITHIN THE CONTRACT LIMIT LINE. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND AT (315) 445-7980.
- ADJUST RIMS OF UTILITY STRUCTURES TO REMAIN WITHIN AREAS OF GRADE CHANGES TO MEET PROPOSED LINES AND GRADES.
- ALL NON-PAVED AREAS ARE TO BE LAWN UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BLEND NEW WORK SMOOTHLY AND EVENLY WITH EXISTING LINES AND GRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE WITHIN THE CONTRACT LIMIT LINE. EXISTING LAWNS SHALL BE MOVED AS MUCH AS PRACTICAL TO KEEP AREA FROM LOOKING UNSIGHTLY. ALL TRASH AND DEBRIS SHALL BE PICKED UP AND DISPOSED OF PROPERLY.

EXISTING CONDITIONS & REMOVAL/DEMOLITION NOTES

LI-SITE-FREP-NOTES

- REMOVE EXISTING PAVEMENTS - SEE NOTE 2 BELOW
- SAWCUT ASPHALT OR CONCRETE PAVEMENT. SAWCUT ASPHALT IN NEAT STRAIGHT LINE AND SAWCUT CONCRETE PAVEMENT AT NEAREST SCORE JOINT.
 - REMOVE EXISTING ASPHALT PAVEMENT AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING TREE / VEGETATION, INCLUDING ROOT SYSTEM AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING TOPSOIL AND STOCKPILE IN OWNER APPROVED LOCATION.
 - REMOVE EXISTING GRAVEL SURFACING AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING STONE WALL AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING RETAINING WALL AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING CONCRETE PAVEMENT AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING BUILDING AND DISPOSE OF OFF SITE. REFER TO ARCHITECTURAL PLAN.
 - REMOVE EXISTING YARD LIGHT AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING SIGN AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING RAILING AND DISPOSE OF OFF SITE.
 - REMOVE AND DISPOSE OF EXISTING SIGN AND PLANTER.
 - CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITIES TO SHUT OFF SERVICES BEFORE DEMOLITION WORK STARTS.
 - REMOVE EXISTING STONE SURFACING AND DISPOSE OF OFF SITE.
 - EXISTING UTILITY POLE TO BE REMOVED/RELOCATED TO LOCATION SHOWN ON SHEET L2.1. COORDINATE WITH PROPER UTILITY.
 - REMOVE EXISTING STRUCTURE AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING 18" STORM PIPE AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING END SECTION AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING 24" STORM CULVERT, REGRADE AREA PER SHEET L2.1
 - EXISTING UTILITY POLE TO REMAIN AND BE PROTECTED.
 - APPROXIMATE LOCATION OF PROPOSED ON-SITE SANITARY DISPOSAL SYSTEM. PROTECT FIELD AREA FROM CONSTRUCTION ACTIVITIES.

LEGEND

X-RAY ANIMAL HOSE

EXISTING	PROPOSED	DESCRIPTION
100		CONTOUR
+377.7		SPOT ELEVATION
CT/CE		CURB TAPER/END
TC/BC		TOP/BOTTOM OF CURB
HP/LP		HIGH / LOW POINT
TP-2		TEST PIT
B-1		BORING (SEE SPECIFICATIONS FOR BORING INFO)
		GUIDERAIL
		FENCE
		UTILITY POLE
		WATER LINE
		FIRE HYDRANT
EX 4" FM	4" FM	FORCE MAIN SANITARY LINE
EX ST	ST	STORM PIPE
EX SAN	UD	UNDERDRAIN
E/T		SANITARY PIPE
E		OVERHEAD ELECTRIC
I		UNDERGROUND ELECTRIC
		TELEPHONE
		FORCE MAIN MANHOLE
		STORM STRUCTURE
		DRYWELL
		INLET
		CATCH BASIN/MANHOLE
		CLEAN OUT
		SANITARY MANHOLE
		ASPHALT PAVEMENT-WALK
		ASPHALT PAVEMENT-PARKING
		ASPHALT PAVEMENT-DRIVE
		CONCRETE PAVEMENT
		SAFETY SURFACING
		MAINTENANCE STRIP
		STONE SHOULDER
		OUTLET PROTECTION
		OUTLET PROTECTION FOR 6" PIPE OR LESS
		OUTLET PROTECTION FOR 8" - 12" PIPE
		OUTLET PROTECTION FOR 15" PIPE, DIMENSIONS PER PLANS
		TRAFFIC SIGN
		TRAFFIC SIGN - SET IN BOLLARD
		TRAFFIC SIGN - MOVABLE
		LIGHT POLE (SEE ELECTRICAL PLANS FOR WIRING)
		CURB
		CURB FLUSH (1" REVEAL UNLESS OTHERWISE NOTED)
		SILT FENCE
		ATHLETIC FIELD TURF OR SOD
		TREE
		SHRUB
		PLANT KEY
		VEGETATION

ZONING DATA CHART - TOWN OF MANLIUS

CURRENT ZONE RA - RESTRICTED AGRICULTURAL DISTRICT

	REQUIRED	PROVIDED
LOT AREA (NO SEWER)	100,000 SF	125,815 SF
FRONT YARD SETBACK	40 FT.	40 FT.
REAR YARD SETBACK	40 FT.	40 FT.
SIDE YARD SETBACK	20 FT.	20 FT.

PARKING DATA CHART

	REQUIRED	PROVIDED
PARKING STALL DIMENSIONS	10 FT. X 20 FT.	10 FT. X 20 FT.
OFFICES (1 SPACE/ 300 SQ. FT.)	20 SPACES	25 SPACES



SITE DEMOLITION PLAN



ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:
KEPLINGER FREEMAN ASSOCIATES
LANDSCAPE ARCHITECTURE & LAND PLANNING
6320 TY ROAD, SUITE 100 EAST SYRACUSE, NEW YORK 13207
PHONE: (315) 445-7980 FAX: (315) 445-7981

SEAL:

PLANNING BOARD SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION

AM JOB NO.

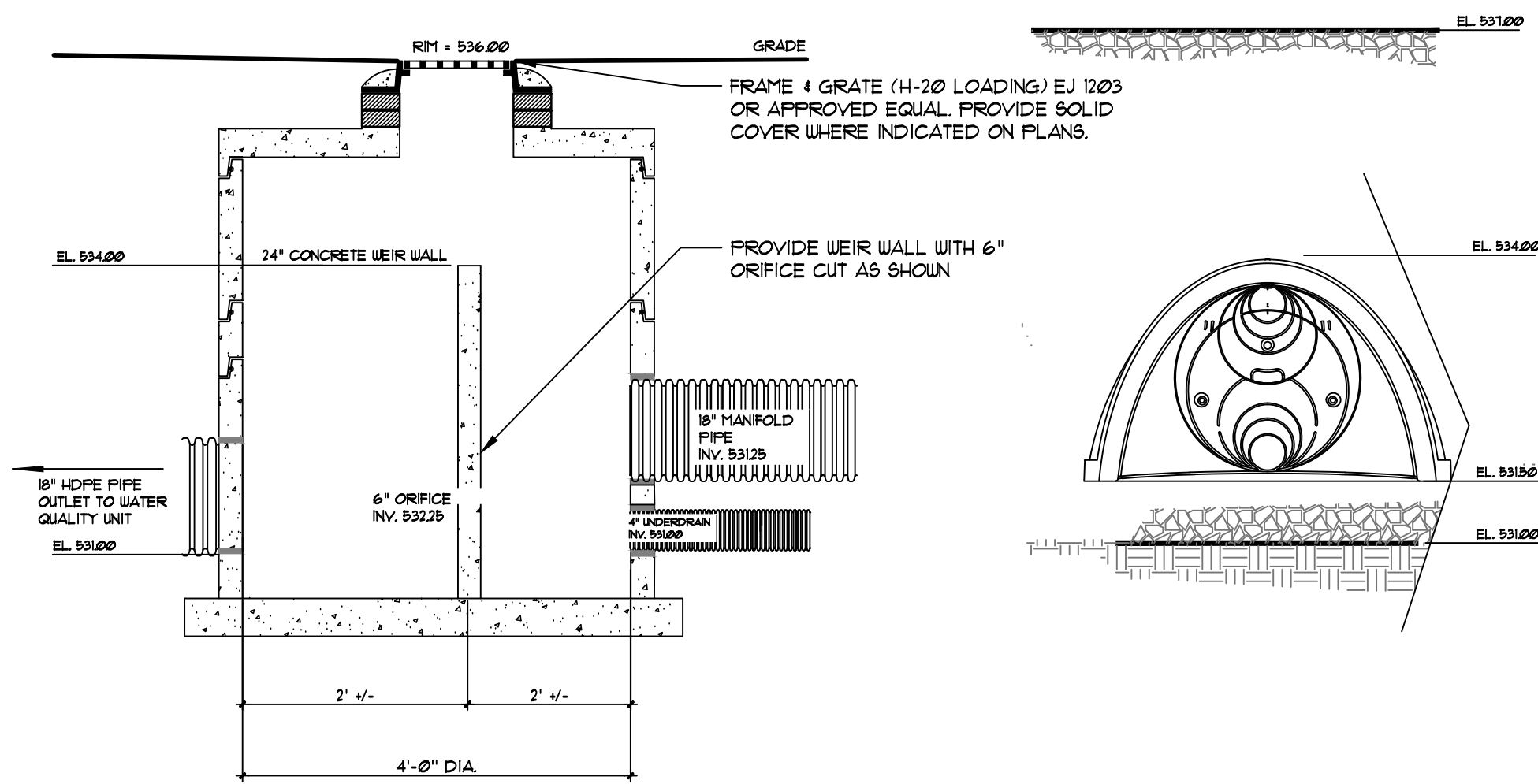
SITE PREPARATION PLAN

DATE ISSUED: 05/02/22

L1.1

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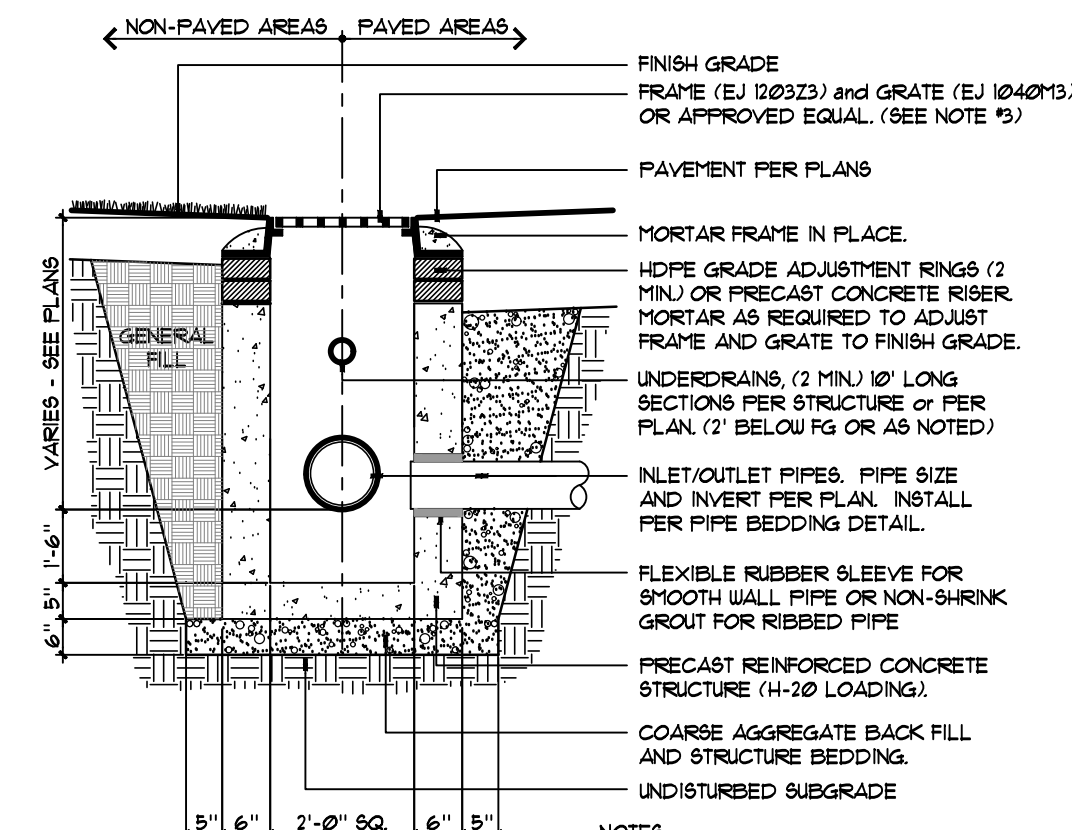


NOTE: SECTION SHOWN FOR SCHEMATIC PURPOSES ONLY

SECTION

3 OUTFLOW STRUCTURE

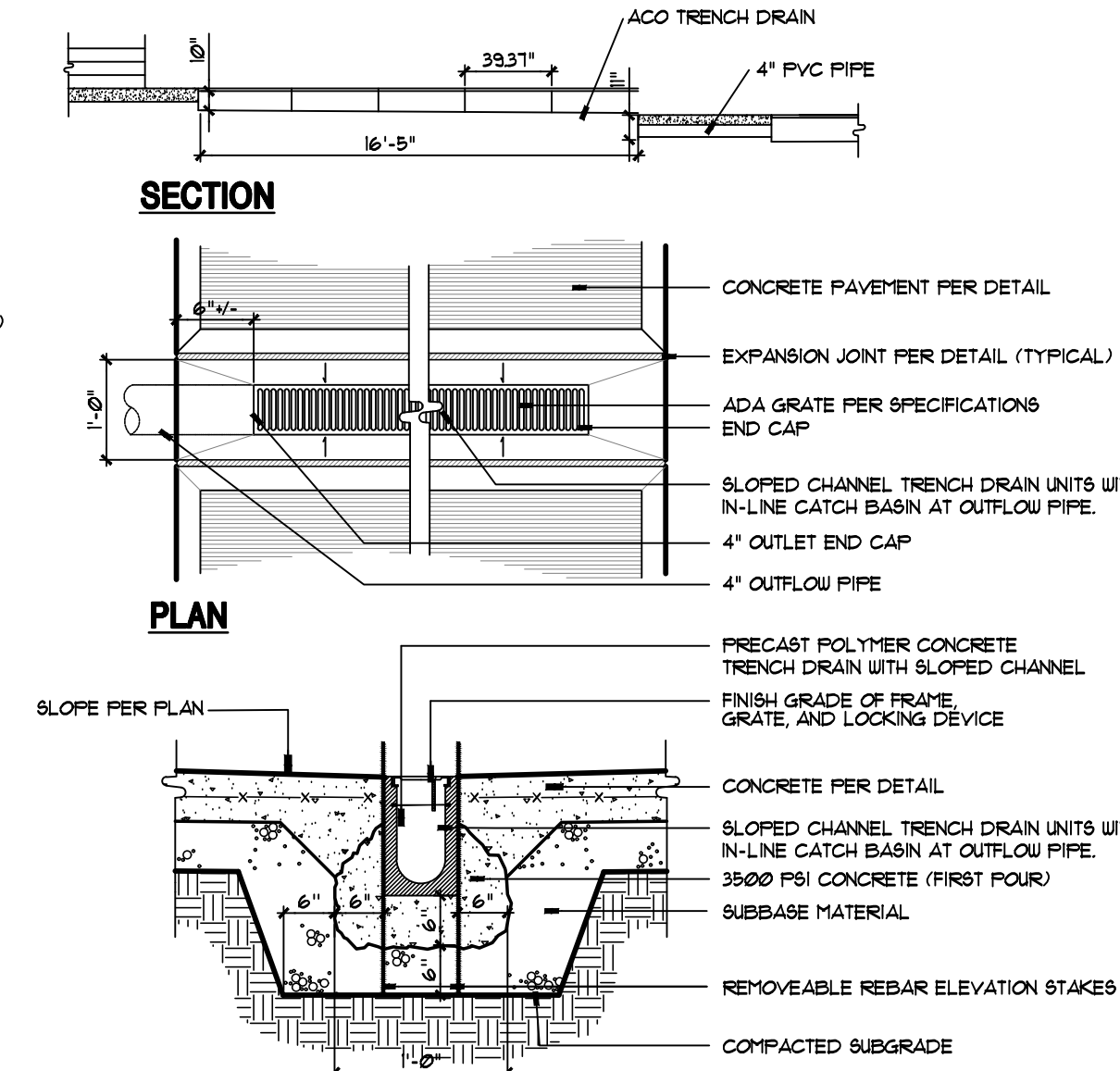
NOT TO SCALE



SECTION

2 STORM INLET (SI)

NOT TO SCALE



SECTION

1 TRENCH DRAIN

NOT TO SCALE

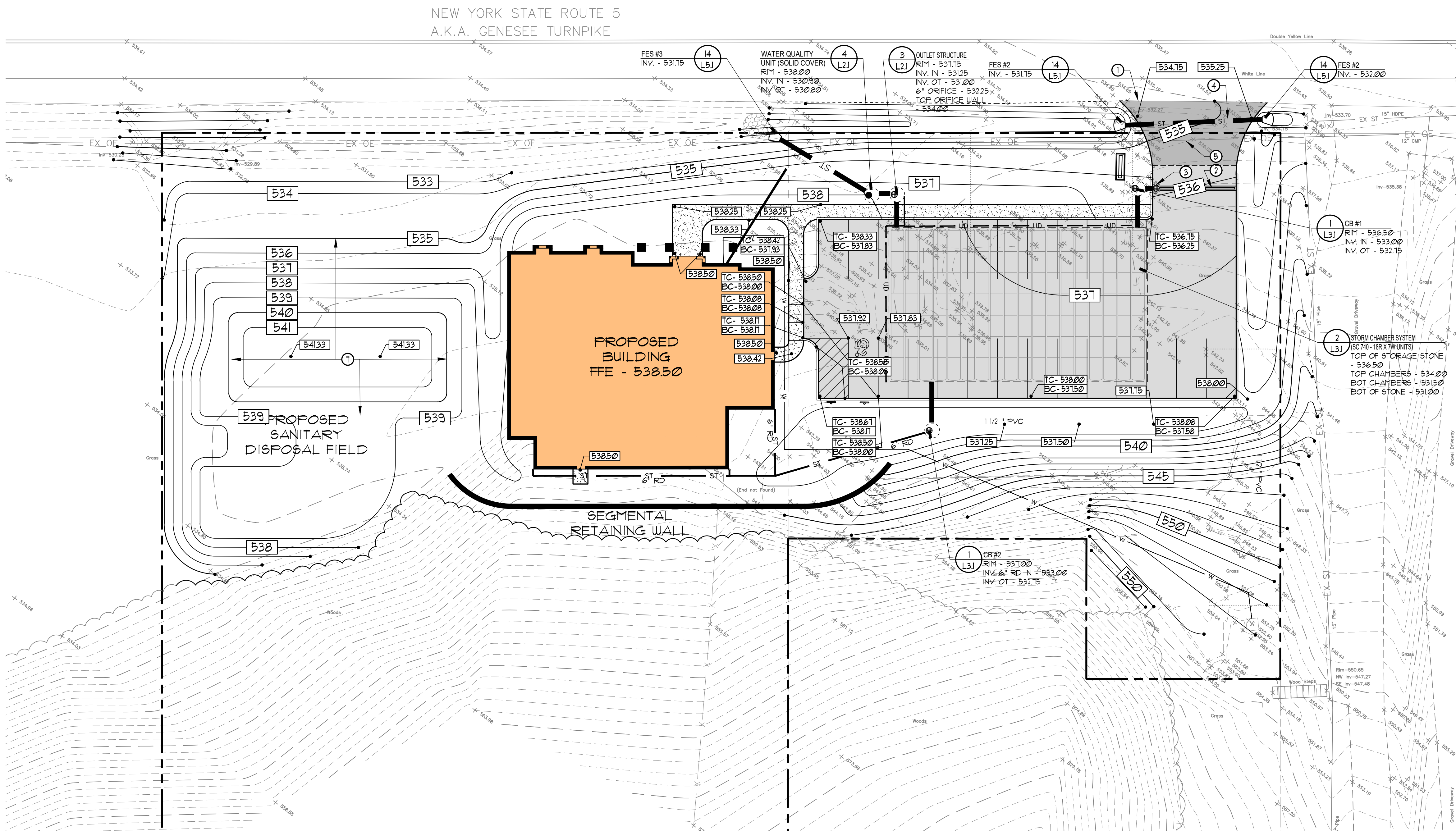
GRADING and UTILITY GENERAL NOTES

1. ANY/ALL FILL REQUIRED BELOW PAVING SUBGRADE SHALL ONLY BE COARSE AGGREGATE FILL OR SUBBASE COARSE MATERIALS.
2. WHEREVER EXISTING STORM STRUCTURES ARE TO BE ABANDONED AND REMOVED, CUT AND PLUG CONNECTING PIPES AND/OR REMOVE PORTIONS OF PIPES WHICH MAY INTERFERE WITH OTHER WORK.
3. ALL CONCRETE PAVING AT ALL DOORS SHALL BE FLUSH WITH BUILDING FLOOR ELEVATION. CONCRETE PAVEMENT SHALL BE COULED TO FOUNDATION WALL PER DETAILS.
4. ALL GRAVITY SANITARY SEWER LINES SHALL BE SDR-35 PVC WITH 48" MIN. COVER.
5. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
6. ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
7. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND THE CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
8. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM KEPLINGER FREEMAN ASSOCIATES (KFA/RZ ENGINEERING AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. KFA AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
9. ANY ELECTRIC AND LIGHT POLES AND/OR EQUIPMENT IS SHOWN FOR COORDINATION PURPOSES ONLY. LOCATIONS ARE APPROXIMATE ONLY. REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATIONS AND DETAILED INFORMATION.
10. PROVIDE BENDS ON WATER LINE AS NECESSARY TO ACHIEVE PROPOSED LAYOUT. ALL BENDS TO BE INSTALLED WITH A THRUST BLOCK. REFER TO DETAIL.

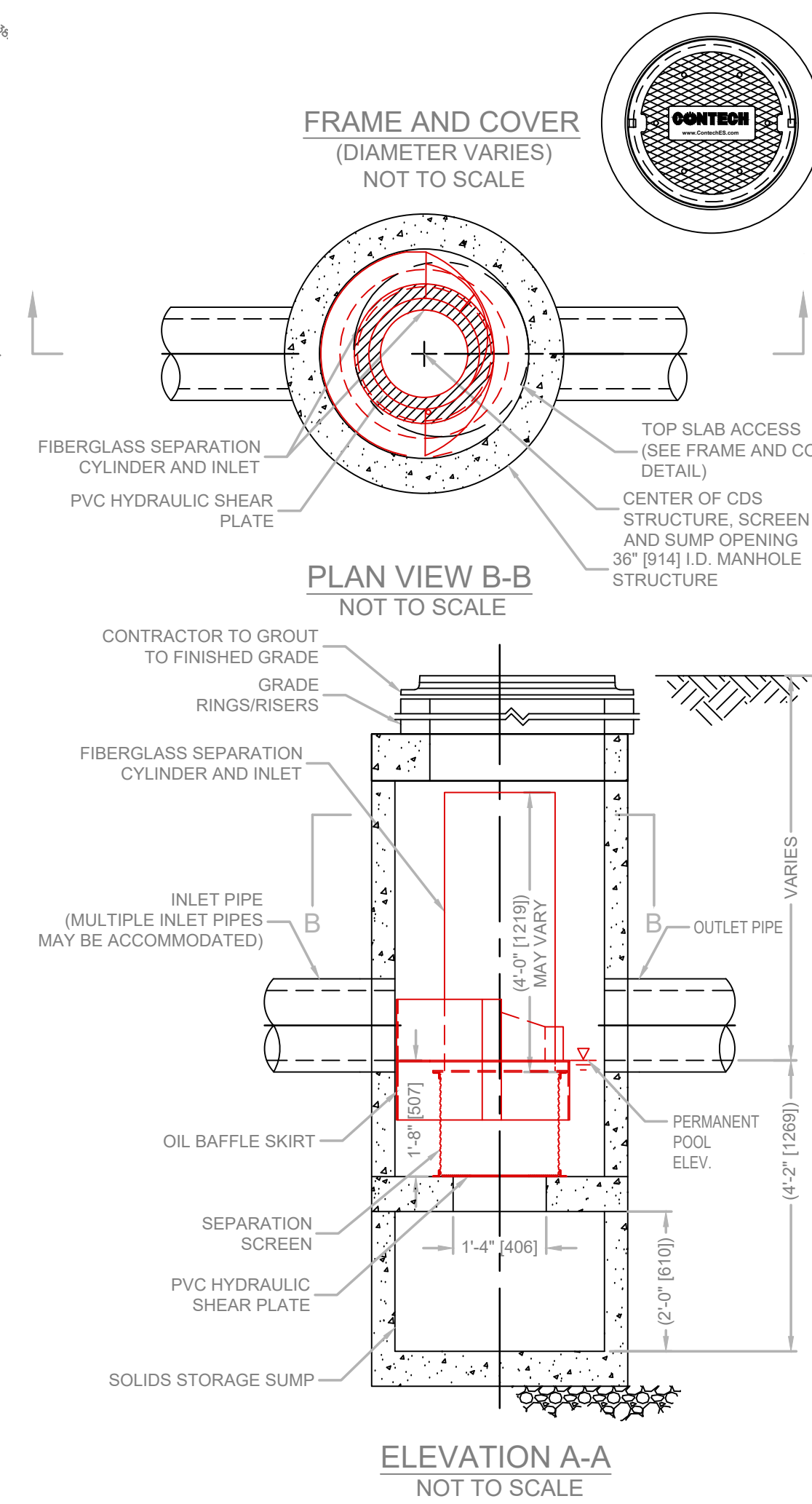
GRADING, DRAINAGE AND UTILITY NOTES

L2.0-GDU-NOTES

1. MEET EXISTING LINE AND GRADE OF ADJACENT MATERIAL.
2. INSTALL TRENCH DRAIN PER DETAIL 1/2.1.
3. INSTALL STORM INLET PER DETAIL 2/L2.1.
4. INSTALL 18" CULVERT UNDER PROPOSED DRIVEWAY.
5. PROPOSED RELOCATION OF UTILITY POLE. CONTRACTOR TO COORDINATE WITH PROPER UTILITY FOR WORK.
6. INSTALL PIPE BEDDING PER DETAIL 12/L.5.1.
7. LOCATION OF MODIFIED MOUND ON-SITE SEWAGE DISPOSAL SYSTEM REFER TO DRAWINGS S-1 AND S-2 PREPARED BY RZ ENGINEERING FOR SPECIFIC DESIGN DETAILING AND REQUIREMENTS.



GRADING PLAN



ELEVATION A-A

NOT TO SCALE

4 WATER QUALITY UNIT

NOT TO SCALE



ASHLEY MCGRAW

25 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:
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6320 ELY ROAD, SUITE 100, EAST SYRACUSE, NEW YORK 13207
PHONE: (315) 445-7980 FAX: (315) 445-7981

SEAL:

PLANNING
BOARD
SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY
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8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

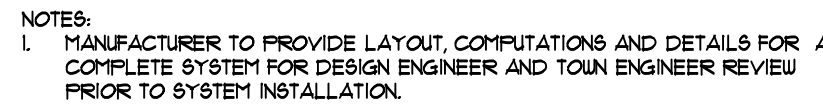
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1.	3/14/22	PB SUBMISSION
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AW JOB NO.

GRADING,
DRAINAGE and
UTILITY PLAN

DATE ISSUED:
05/02/22

L2.1



2 CROSS SECTION - SC 740
L3.1 NOT TO SCALE



1 CATCH BASIN (CB)
L3.1 NOT TO SCALE

33-4000-02

NOTES:

1. REFER TO TRAFFIC CONTROL SIGN DETAIL 11/L5.1 FOR INSTALLATION
2. ALL REGULATORY SIGNS SHALL CONFORM TO THE MOST CURRENT M
"MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

L3.0-LAYOUT-NOTES

- II INSTALL MONUMENT SIGN PER TOWN CODE.

ASHLEY MCGRAW

CONSULTANT:

LANDSCAPE ARCHITECTURE & LAND PLANNING
6320 FLY ROAD, SUITE 109 EAST SYRACUSE, NEW YORK 13067
PHONE: (315) 445-7980 FAX: (315) 445-7981

SEAL:

6/1/2022

**TEVILLE VETERINARY
HOSPITAL**
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

AM JOB NO.

ISSUED:

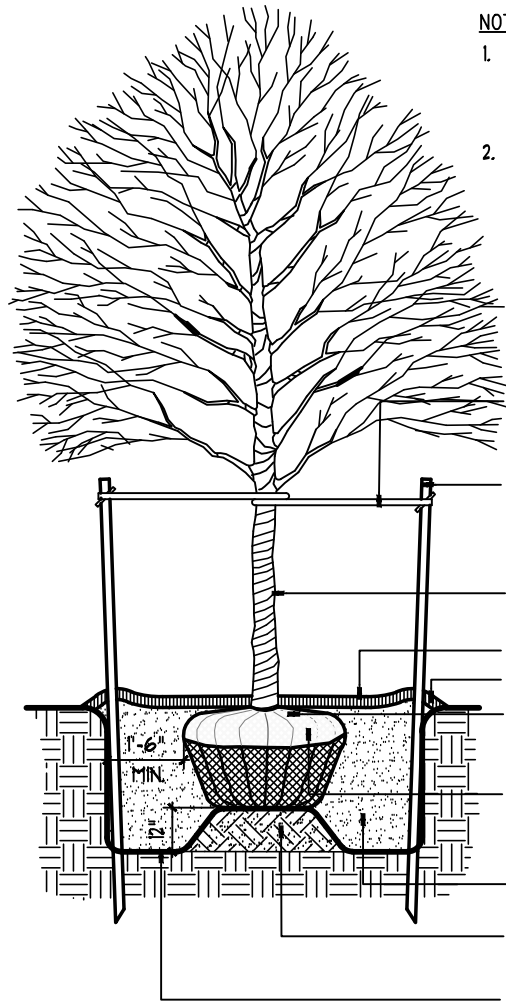
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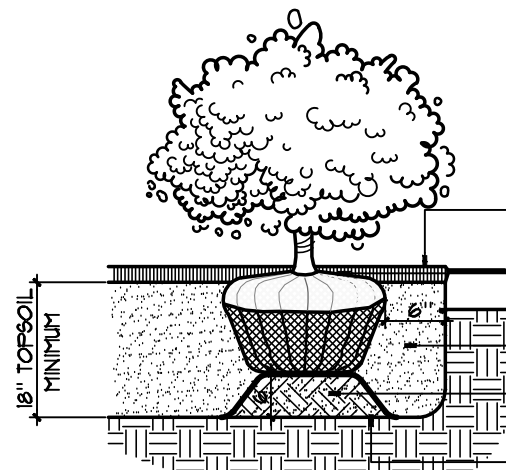
NOTES:

1. REMOVE ALL NONBIODEGRADABLE MATERIAL FROM THE ROOT BALL AND TREE PIT.
2. PRUNE TOP 1/3 OF CROWN BY THINNING AND SPACING BRANCHES. DO NOT CUT THE LEADER.
3. TREE GUYING - INSTALL WITH ARBORISTE (www.arboriste.com) OR APPROVED EQUAL PER MANUFACTURER'S SPECIFICATIONS.
4. TWO 3/4" DIA. CEDAR 1-1/2" GALV. PIPE OR PLASTIC TREE STAKES-8" MIN. LENGTH (ALIGN IN ROWS WITH CURBS OR PAVING LINES).
5. TREE WRAP TO HOSE GUARDS.
6. 3" DEPTH MULCH.
7. SOIL SAUCER.
8. INSTALL ROOT FLARE FLUSH WITH ADJACENT FINISH GRADE.
9. REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL AND ALL SOIL MATERIAL ABOVE ROOT FLARE.
10. PLANTING SOIL MIX.
11. COMPACTED PLANTING SOIL MIX.
12. UNDISTURBED SUBGRADE OR SOIL FILL.

SECTION

2
L32
TREE PLANTING
NOT TO SCALE

32-9300-01



NOTES:

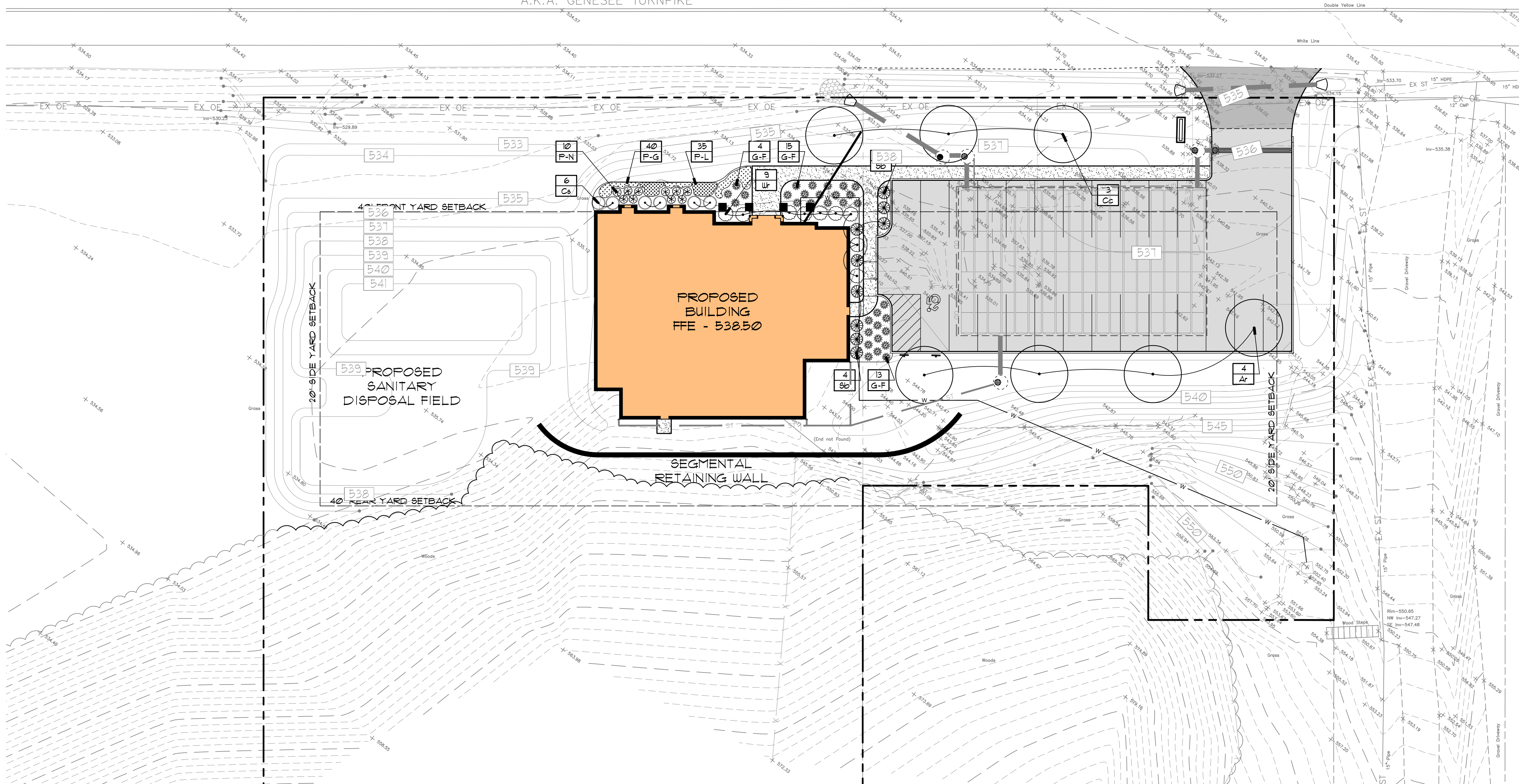
1. REMOVE ALL NONBIODEGRADABLE MATERIAL FROM THE ROOT BALL AND TREE PIT.
2. PRUNE TOP 1/3 OF ALL TOP GROWTH INCLUDING ALL BROKEN BRANCHES.
3. SPACE PLANTS WITHIN SHRUB BED AS SHOWN AND BASED ON NUMBER OF PLANTS REQUIRED.
4. 3" DEPTH MULCH BED TO LIMITS SHOWN FLUSH TO ADJACENT SURFACES.
5. INSTALL ROOT FLARE FLUSH WITH ADJACENT FINISH GRADE.
6. PLANTING SOIL MIX.
7. COMPACTED PLANTING SOIL MIX.
8. UNDISTURBED SUBGRADE.

SECTION

1
L32
SHRUB PLANTING
NOT TO SCALE

32-9300-02

NEW YORK STATE ROUTE 5
A.K.A. GENESEE TURNPIKE



LAYOUT PLAN

PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	CALIPER	HEIGHT	CONDITION
TREES					
Ar	AUTUMN BLAZE RED MAPLE	ACER FREEMANI	3" CAL.	-	B4B
Cc	AMERICAN REDBUD	CERCIS CANADENSIS	2.5" CAL.	-	B4B
SHRUBS					
Sb	GOLD FLAME SPIREA	SPIREA BIMALDA 'GOLD FLAME'	-	18"-24"	-
W	WINE & ROSES WEIGELA	WEIGELA FLORIDA	-	-	5 GAL
Cs	MIDWINTER FIRE BLOODTWIG DOGWOOD	CORNUS SANGUINEA 'MIDWINTER FIRE'	2-3'	3 CONT.	4 CANES MIN.
PERENNIALS and GRASSES					
G-F	DWARF FOUNTAIN GRASS	FENISETUM 'HAEMEL'	-	-	1 GAL
P-G	RED BLANKET FLOWER	GAILLARDIA ARISTATA 'BARBICAN'	-	-	1 CONT.
P-L	BIG BLUE LIRIOPE	LIRIOPE MUSCARI 'BIG BLUE'	-	-	1 GAL
P-N	'WALKER'S LOW' CATMINT	NEPETA RACEMOSA 'WALKER'S LOW'	12"-18"	2 CONT.	

PLANT NOTES

- 3" DEPTH SHREDDED BARK MULCH WITH 18" OF SCREENED TOPSOIL.
- INSTALL LANDSCAPE EDGING AS SPECIFIED.
- GENERAL NOTE: ALL LANDSCAPING AND LAWN AREAS SHALL BE MAINTAINED BY OWNER. DEAD MATERIAL SHALL BE REGULARLY PRUNED AND NOURISHED TO MAINTAIN HEALTH.



ASHLEY MCGRAW

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WASTE DISPOSAL / SPILL PREVENTION NOTES

X-WASTE DISPOSAL NOTES

WASTE DISPOSAL NOTES:

- COLLECT AND STORE ALL WASTE MATERIALS AND DEBRIS IN DUMPSTERS OR OTHER ACCEPTABLE WASTE FACILITIES. ALL COLLECTED WASTE MATERIALS SHALL BE LEGALLY REMOVED AND DISPOSED OF OFF SITE. DUMPSTER SHALL BE EMPTIED ON A PERIODIC BASIS DEPENDING ON GENERATION OF WASTE MATERIAL. NO BURNING OR BURYING OF WASTE MATERIALS WILL BE ALLOWED.

- STORE, HANDLE AND DISPOSE OF ALL HAZARDOUS MATERIALS AS SPECIFIED BY LOCAL OR STATE LAWS.

SPILL PREVENTION NOTES:

- CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT EXCESS CONCRETE OR DRUM WASH WATER EXCEPT FOR AT DESIGNATED CONCRETE WASHOUT AREAS.
- ALL ONSITE FUELING OF EQUIPMENT AND VEHICLES SHALL BE CONDUCTED PER NYSDEC GUIDELINES FOR PETROLEUM BULK STORAGE.
- MONITOR ALL CONSTRUCTION VEHICLES AND EQUIPMENT FOR LEAKS.
- ALL PETROLEUM AND LUBRICANTS USED FOR THE OPERATION OF VEHICLES AND EQUIPMENT SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. WHEN POSSIBLE, STORE THESE PRODUCTS IN APPROPRIATE CONTAINERS OR UNDER ROOFED FACILITIES.

SOIL RESTORATION NOTES

- ACCORDING TO SECTION 5 OF THE NYS STORMWATER DESIGN MANUAL, SOIL RESTORATION PRACTICES MUST BE APPLIED ACROSS THE SITE IN AREAS OF SOIL DISTURBANCE.

SOIL RESTORATION REQUIREMENTS:

TYPE OF SOIL DISTURBANCE

NO SOIL DISTURBANCE

MINIMAL SOIL DISTURBANCE

AREAS WHERE TOPSOIL IS STRIPPED ONLY - NO CHANGE IN GRADE

AREAS OF CUT OR FILL

HEAVY TRAFFIC AREAS ON SITE (ESPECIALLY IN ZONE B-25 FEET AROUND BUILDINGS BUT NOT WITHIN A 5 FOOT PERIMETER AROUND FOUNDATION WALLS)

AREAS WHERE RUNOFF REDUCTION AND/OR INFILTRATION PRACTICES ARE APPLIED

REDEVELOPMENT PROJECTS

SOIL RESTORATION REQUIREMENT

RESTORATION NOT PERMITTED

RESTORATION NOT REQUIRED

HSG A1B - APPLY 6 INCHES OF TOPSOIL
HSG C1D AERATE* AND APPLY 6 INCHES OF TOPSOIL
HSG A1B - AERATE AND APPLY 6 INCHES OF TOPSOIL
HSG C1D - APPLY FULL SOIL RESTORATION**

APPLY FULL SOIL RESTORATION (DECOMPACTION AND COMPOST ENHANCEMENT*)

RESTORATION NOT REQUIRED, BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR APPROPRIATE PRACTICES.

SOIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING PAVED/PAVED AREA WILL BE CONVERTED TO PAVED/PAVED AREA.

*AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOIL, A ROLLER WITH MANY SPIKES MAKING INDENTATIONS IN THE SOIL, OR PRONGS WHICH FUNCTION LIKE A MINI-SUB-SOILER.

**PER "DEEP RIPPING AND DE-COMPACTION, DEC 2008".

SOIL RESTORATION PRACTICE IMPLEMENTATION:

DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE, THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS APPLIED:

- APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
- TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC OR TILLER, MIXING AND CIRCULATING AIR AND COMPOST INTO SUBSOILS.
- ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEARED OFF THE SITE.
- APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
- VEGETATE AS REQUIRED BY APPROVED PLAN.
- COMPOST SHALL BE AGED, FROM PLANT DERIVED MATERIALS, FREE OF VIABLE WEED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH A HALF INCH SCREEN AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.

FIGURES 5/6 AND 5/7 TO THE BELOW SHOW TWO ATTACHMENTS USED FOR SOIL DECOMPACTION, TILLING (STEP 2 ABOVE) SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATION THAT ARE WITHIN 24 INCHES OF THE SURFACE.

Figure 5. 16 Soil aerator implement



Figure 5. 17 Soil aerator implement



- AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH A 3/8" METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT.
- THE CONTRACTOR MUST KEEP THE SITE FREE OF VEHICULAR AND FOOT TRAFFIC OR OTHER WEIGHT LOADS. CONSIDER PEDESTRIAN FOOTPATHS, (SOMETIMES IT MAY BE NECESSARY TO DE-HATCH THE TURF EVERY FEW YEARS)
- ALL SOIL RESTORATION SHALL BE IN ACCORDANCE WITH NYSDEC REGULATIONS AND THE APPROVED SWPPP FOR THE PROJECT.

SWPPP LEGEND

- SILT FENCE
- SEDIMENT TRAP @ CB/INLET
- SLOPE PROTECTION
- CONSTRUCTION ENTRANCE
- CHECK DAM
- SEDIMENT FILTER LOG

EROSION CONTROL NOTES and EROSION CONTROL SEQUENCING

X-1.61 SWPPP-EC-902

EROSION AND SEDIMENT CONTROL NOTES:

- PRIOR TO THE START OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE STABILIZED, ALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE SITE PLAN AND AS OTHERWISE REQUIRED SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENTATION CONTROL AND THE SWPPP PREPARED FOR THE PROJECT, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- BARE SOILS SHALL BE MULCHED WITH STRAW AT A RATE OF TWO TONS PER ACRE WITHIN 14 DAYS OF EXPOSURE, UNLESS CONSTRUCTION WILL BEGIN WITHIN 21 DAYS. IF CONSTRUCTION ON AN AREA IS SUSPENDED, THE AREA SHALL BE SEEDED IMMEDIATELY.
 - ALL DISTURBED AREAS WITHIN THE NYSDEC RIGHT-OF-WAY SHALL BE STABILIZED BY STRAW, OR OTHER NYSDEC APPROVED METHOD, AT THE END OF EACH WORK WEEK, REGARDLESS OF WHEN THE SOIL WILL BE DISTURBED AGAIN.

3. SITE PREPARATION SHALL INCLUDE:

- SEEDBED PREPARATION - SCARIFY IF COMPACTED, REMOVE DEBRIS AND OBSTACLES SUCH AS ROOTS OR STUMPS.
- SOIL AMENDMENTS
- FERTILIZE WITH 600 LBS OF 5-10-10 OR EQUIVALENT PER ACRE (14 LBS/1000 SQ FT).
- SEED MIXTURES
 - TEMPORARY SEEDINGS
 - RYEGRASS (ANNUAL OR PERENNIAL) @ 30 LBS/ACRE (0.7 LBS/1000 SQ FT)
 - CERTIFIED "ARODSTOCK" WINTER RYE (CEREAL RYE) @ 100 LBS/ACRE (25 LBS/1000 SQ FT)
 - PERMANENT SEEDINGS
 - ROUGH OR OCCASIONALLY MOVED AREAS:

EMPIRE BIRDSFOOT	LBS/ACRE	LBS/1000 SQ FT
020	8	0.20
TREFOIL OR COMMON WHITE CLOVER PLUS*	8	0.20
TALL FESCUE PLUS*	20	0.45
REDTOP	2	0.05
RYEGRASS (PERENNIAL)	5	0.10

*ADD INOCULANT IMMEDIATELY PRIOR TO SEEDING

- METHOD OF SEEDING: BROADCASTING, DRILLING WITH CULTIPACK TYPE SEEDER OR HYDROSEEDING ARE ACCEPTABLE.

- DISTURBED AREAS SHALL BE SEEDED AS NOTED ABOVE AND MULCHED WITH CLEAN STRAW AS OUTLINED IN THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENTATION CONTROL. ON SLOPES GREATER THAN 3:1 SEEDED AREAS SHALL BE STAKED WITH JUTE MESH OR SODDED.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE STREET PAVEMENT AREAS CLEAN OF DIRT AND DEBRIS.

- ACCESS TO DISTURBED AREAS SHALL BE LIMITED TO THE AREAS SHOWN ON THE PLAN. THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE AT THE LOCATION SHOWN ON THE PLAN AND ANY OTHER LOCATIONS THE CONTRACTOR INTENDS TO ENTER THE SITE FROM THE ADJACENT ROADWAYS.

- ANY EXISTING DRAINAGE FACILITIES DISRUPTED BY CONSTRUCTION OR IMPACTED BY INSTALLATION OF EROSION CONTROL MEASURES SHALL BE REPLACED TO MATCH EXISTING CONDITIONS OR BETTER.

- ALL DESIGN AND MAINTENANCE MEASURES OUTLINED IN THE SWPPP PREPARED FOR THIS PROJECT SHALL BE IMPLEMENTED AND CARRIED OUT BY THE PARTIES DEEMED RESPONSIBLE FOR THOSE DUTIES.

- THE PERMITTEE & ITS SUBCONTRACTORS ARE RESPONSIBLE FOR MEANS & METHODS OF EROSION CONTROL FACILITIES DURING CONSTRUCTION. IT SHOULD BE NOTED THAT FACILITIES ON THIS DRAWING ARE CONSIDERED MINIMUM & ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS CONSTRUCTION PROGRESSES. THE PERMITTEE & ITS SUBCONTRACTORS ARE RESPONSIBLE FOR ANY ADDITIONAL MEASURES DEEMED NECESSARY BY THE ENGINEER, TOWN OR NYSDEC.

- PROVIDE EROSION CONTROL MEASURES AS NOTED ON THE PLANS AND AS OTHERWISE REQUIRED TO PREVENT EROSION AND SEDIMENTATION ONTO ADJOINING PROPERTY, STREETS, WATERWAYS, AND ON SITE IMPROVEMENTS BEYOND THE LIMITS OF WORK. COMPLY WITH THE LATEST ISSUE OF "GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL" AND THE NYSDEC'S "REDUCING THE IMPACTS OF STORMWATER RUNOFF FROM NEW DEVELOPMENT".
- MAINTENANCE - THE CONTRACTOR SHALL INSPECT ALL DRAINAGE STRUCTURES AND EROSION CONTROLS ON A WEEKLY BASIS AND AFTER ALL STORMS (1" RAINFALL OR GREATER) INCLUDING BUT NOT LIMITED TO THE FOLLOWING: REPLACING DAMAGED OR SLOTTED IN EROSION CONTROLS, CLEANING OUT STRUCTURES, AND STABILIZING ERODED OR WASHED OUT SLOPED AREAS.

- CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES UNTIL CONSTRUCTION IS COMPLETE, LAWS HAVE BECOME ESTABLISHED AND ALL SOURCES OF EROSION HAVE BEEN PERMANENTLY STABILIZED.

- CONTRACTOR SHALL PROVIDE DUST CONTROL IN ACCORDANCE WITH THE LATEST ISSUE OF "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL".

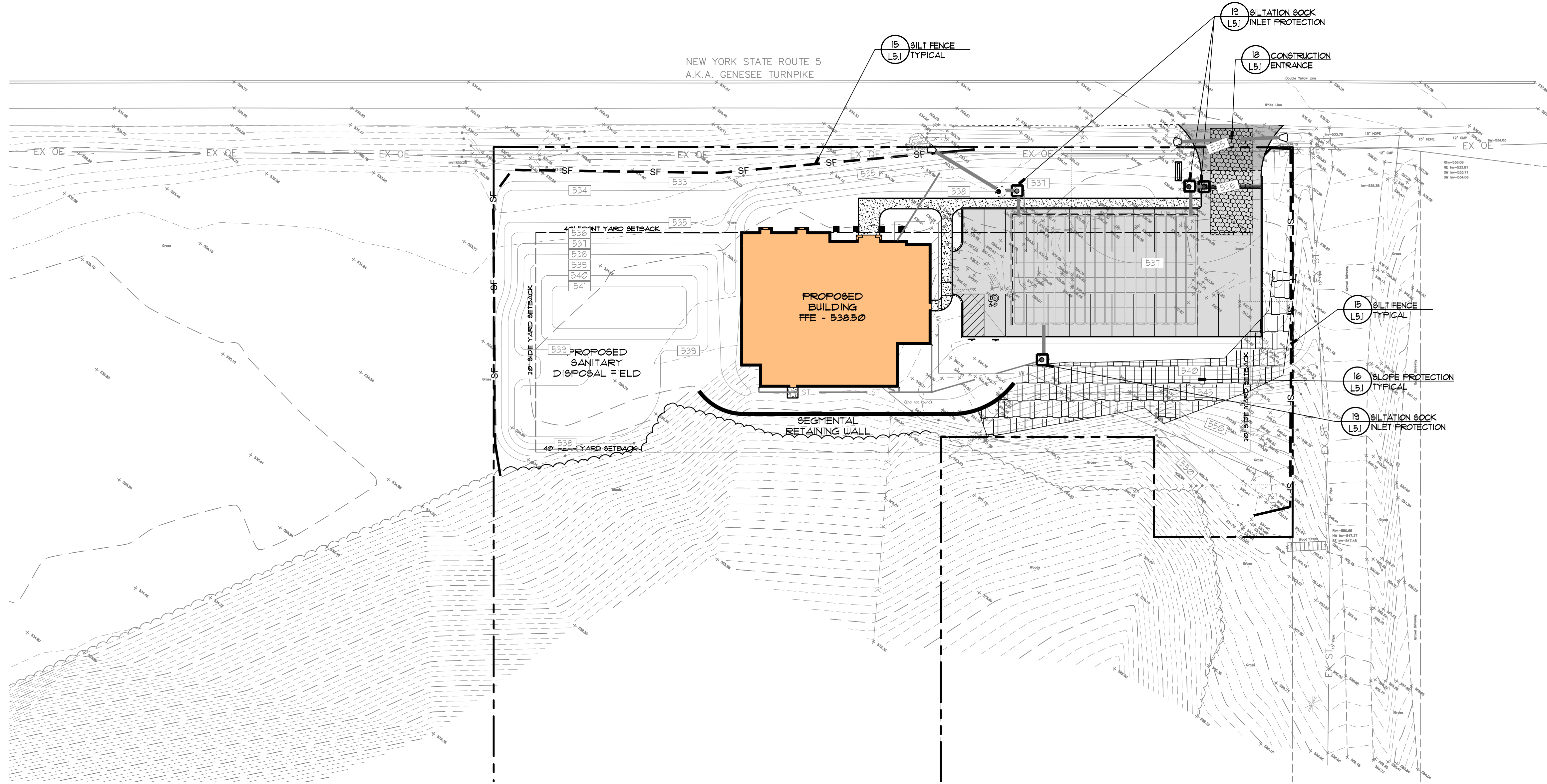
EROSION CONTROL and CONSTRUCTION SEQUENCE

- PRIOR TO SITE DISTURBANCE, CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AS DETAILED AT THE ENTRANCE LOCATION SHOWN ON THE DRAWING.
- SILT FENCE - INSTALL PERIMETER SILT FENCE AS SHOWN ON PLAN PRIOR TO EARTHWORK. SILT FENCE SHALL BE UTILIZED ONLY AS A TEMPORARY MEASURE. DISTURBED AREAS SHALL BE SEEDED IMMEDIATELY FOLLOWING THE COMPLETION OF ANY EARTHWORK PHASE.
- CLEARING AND GRUBBING - REMOVE ALL TREES, STUMPS AND BRUSH PRIOR TO EARTHWORK.
- PROVIDE ALL DRAINAGE CHANNELS AND INSTALL EROSION CONTROL MEASURES WITHIN DRAINAGEWAYS. INSTALL CHECK WHERE INDICATED ON THE PLANS
- PROVIDE DRAINAGE STRUCTURES AND PIPING, INCLUDING DRAINAGE INLET PROTECTION AS SHOWN ON THE DRAWING.
- EXCAVATE, FILL AND GRADE PARKING LOT SUBBASE AS SHOWN ON THE DRAWINGS. FINE GRADE, SEED AND MULCH ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS OF DISTURBANCE. AREAS TO RECEIVE ASPHALT PAVEMENT SHOULD BE PAVED WITH AT LEAST THE ASPHALT BINDER COURSE WITHIN SEVEN (7) DAYS OF PLACEMENT OF THE SUBBASE COURSE. MAINTAIN ALL DISTURBED SOIL AREAS AND DRAINAGE FACILITIES UNTIL AREAS ARE COMPLETELY STABILIZED AND VEGETATION IS ACHIEVED.

- EXCAVATE AND FILL REST OF SITE AREAS. FINE GRADE, SEED AND MULCH ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS OF DISTURBANCE. AREAS TO RECEIVE ASPHALT PAVEMENT SHOULD BE PAVED WITH AT LEAST THE ASPHALT BINDER COURSE WITHIN SEVEN (7) DAYS OF PLACEMENT OF THE SUBBASE COURSE. MAINTAIN ALL DISTURBED SOIL AREAS AND DRAINAGE FACILITIES UNTIL AREAS ARE COMPLETELY STABILIZED AND VEGETATION IS ACHIEVED.
- REMOVE TEMPORARY CONSTRUCTION ENTRANCE WHEN ASPHALT BINDER COURSE IS PLACED.
- CLEAN ALL STORMWATER BMP'S AFTER ALL UPSTREAM CONTRIBUTORY DRAINAGE AREAS ARE COMPLETELY STABILIZED AND VEGETATION IS ACHIEVED.
- REMOVE TEMPORARY SILT FENCING AFTER SITE IS COMPLETELY STABILIZED AND VEGETATION IS ACHIEVED/PROVIDE UNDERDRAIN WITHIN DETENTION BASIN PER PLANS.

FINAL CLEAN UP & PREVENTATIVE MAINTENANCE

- REMOVE AND/OR MAINTAIN STOCKPILE AREAS.
- REMOVE EROSION CONTROL MEASURES FROM STABILIZED AREAS.
- FINAL CLEAN UP - REMOVE EROSION CONTROL MEASURES AND CLEAN OUT ALL DRAINAGE STRUCTURES AND PIPES AFTER LAWN IS WELL ESTABLISHED. OWNER IS RESPONSIBLE FOR MAINTAINING SITE UPON PROJECT CLOSEOUT.
- CONTRACTOR, ARCHITECT, AND OWNER TO REVIEW SITE FOR COMPLETION. CONTRACTOR TO ADDRESS FINAL COMMENTS ON PUNCH LIST FROM ARCHITECT AND SWPPP INSPECTION REPORTS.
- SUBMIT NOTICE OF TERMINATION UPON FULL STABILIZATION OF SITE.



LAYOUT PLAN



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NYSDOT WORK ZONE GENERAL NOTES

- GENERAL**
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 618 OF THE STANDARD SPECIFICATIONS AND THE WORK ZONE TRAFFIC DETAILS IN THE PLANS AND PROPOSAL OR ADOBE.
 - FOR TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREA NOT SPECIFIED IN THE PROPOSAL, THE PROVISIONS OF THE MUTCD AND THE NEW YORK STATE SUPPLEMENT, INCLUDING ALL APPLICABLE REVISIONS, SHALL APPLY. THE STANDARDS OF APPLICATIONS NOTED THEREIN AND ON THE PROPOSAL ARE TO BE CONSIDERED MINIMAL STANDARDS. WHERE OPTIONS EXIST FOR SIGN SHAPE, THE DIAMOND SHAPE SHALL BE USED.
 - FOR ANY WORK ZONE SET-UP THE ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF ALL SIGNS, TRAFFIC CONTROL DEVICES AND WORK ZONE TRAFFIC CONTROL DEVICES.
 - PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETE. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.), FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.
 - PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL (WZTC) PLAN OR MODIFICATIONS TO THE 618 STANDARD SHEETS SHALL BE SUBMITTED TO THE ENGINEER FOR THE REVIEW AND APPROVAL BY THE REGIONAL TRAFFIC ENGINEER PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH REVISIONS OR MODIFICATIONS. THE CONTRACTOR SHALL NOT IMPLEMENT THE PROPOSED REVISIONS WITHOUT APPROVAL FROM THE REGIONAL TRAFFIC ENGINEER WHEN APPLICABLE.
 - TRAFFIC CONTROL (WZTC) TYPICAL APPLICATIONS SHALL BE USED.
 - ANY AND ALL WORK RELATED TO WORK ZONE TRAFFIC CONTROL IS CONSIDERED SKILLED AND SPECIALIZED WORK. ALL WORKERS ENGAGED IN WORK ZONE TRAFFIC CONTROL WORK SHALL HAVE THE NECESSARY TRAINING TO SATISFACTORILY PERFORM IT. IDENTIFICATION OF EACH WORKER, ALONG WITH DOCUMENTATION OF EXPERIENCE, SHALL BE PROVIDED TO THE ENGINEER PRIOR TO THE WORKER ENGAGING IN WORK ZONE TRAFFIC CONTROL WORK. THE TRAFFIC CONTROL SUPERVISOR SHALL BE IN COMPLIANCE WITH SECTION 618-3.20 OF THE STANDARD SPECIFICATIONS. DETERMINATION OF COMPETENCY AND DISCHARGING OF INDIVIDUALS SHALL BE AS PER SECTION 105-02 OF THE STANDARD SPECIFICATION.

LANE AND RAMP CLOSURES

- THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES IN EACH DIRECTION ARE AVAILABLE FOR CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN.
- NO WORK REQUIRING THE CLOSING OF LANES, RAMPS OR SHOULDERS SHALL BE PERMITTED ON THE FOLLOWING HOLIDAYS:

6:00 AM FRIDAY, SEPTEMBER 3, 2021 THRU 6:00 AM TUESDAY, SEPTEMBER 1, 2021 - (LABOR DAY HOLIDAY)
6:00 AM WEDNESDAY, NOVEMBER 24, 2021 THRU 6:00 AM MONDAY, NOVEMBER 29, 2021 - (THANKSGIVING HOLIDAY)
6:00 AM THURSDAY, DECEMBER 23, 2021 THRU 6:00 AM MONDAY, DECEMBER 21, 2021 - (CHRISTMAS HOLIDAY)
6:00 AM THURSDAY, DECEMBER 30, 2021 THRU 6:00 AM MONDAY, JANUARY 3, 2022 - (NEW YEAR'S HOLIDAY)
6:00 AM THURSDAY, DECEMBER 30, 2021 THRU 6:00 AM MONDAY, JANUARY 3, 2022 - (NEW YEAR'S HOLIDAY)
6:00 AM FRIDAY, MAY 21, 2022 THRU 6:00 AM TUESDAY, MAY 31, 2022 - (MEMORIAL DAY HOLIDAY)
6:00 AM FRIDAY, JULY 1, 2022 THRU 6:00 AM TUESDAY, JULY 5, 2022 - (JULY 4TH HOLIDAY)
6:00 AM FRIDAY, SEPTEMBER 2, 2022 THRU 6:00 AM TUESDAY, SEPTEMBER 6, 2022 - (LABOR DAY HOLIDAY)
6:00 AM WEDNESDAY, NOVEMBER 23, 2022 THRU 6:00 AM MONDAY, NOVEMBER 28, 2022 - (THANKSGIVING HOLIDAY)
6:00 AM FRIDAY, DECEMBER 23, 2022 THRU 6:00 AM TUESDAY, DECEMBER 21, 2022 - (CHRISTMAS HOLIDAY)
6:00 AM THURSDAY, DECEMBER 30, 2022 THRU 6:00 AM MONDAY, JANUARY 3, 2023 - (NEW YEAR'S HOLIDAY)

- IF, IN THE OPINION OF THE ENGINEER, LANE CLOSURES ARE CREATING SIGNIFICANT DELAYS TO TRAFFIC OR ARE CREATING A SAFETY CONCERN DUE TO SLOUED OR STOPPED TRAFFIC, AFFECTED LANE CLOSURES SHALL BE REMOVED AND THE ROADWAY OPENED TO TRAFFIC AS DIRECTED BY THE ENGINEER.
- UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER OR SHOWN IN THE WZTC PLANS, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: 11 FEET FOR FREEWAYS AND/OR EXPRESSWAYS AND 10 FEET FOR ALL OTHER TYPES OF ROADWAYS.
- WORK ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME ON DIVIDED ROADWAYS UNLESS APPROVED BY THE ENGINEER.
- WORK ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME ON UNDIVIDED HIGHWAYS.
- DAILY CLOSURES MAY OCCUR OFF OF LONG-TERM CLOSURES AND SHALL BE SUBJECT TO DAILY CLOSURE RESTRICTIONS.
- PEAK HOUR RESTRICTION: THERE SHALL BE NO LANE CLOSURE DURING THE AM (6:00-8:00) OR PM (4:00-6:00)

WORK AREA COORDINATION

- WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY UTILITY WORK, SUBCONTRACTOR WORK, PUBLIC MAINTENANCE OPERATIONS OR OTHER CONSTRUCTION ACTIVITIES IN THE AREA TO ENSURE THAT THERE ARE NO WORK ZONE TRAFFIC CONTROL, CONFLICTS, SIGNS, AND LANE CONTINUITY, AND THAT WORK ZONE TRAFFIC CONTROL IS PER STANDARDS.
- ALL VEHICLES, EQUIPMENT, WORKERS AND ACTIVITIES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME.

CHANNELIZING DEVICES

- ALL CHANNELIZING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2 FT OF CLEARANCE TO THE TRAVELED WAY UNLESS OTHERWISE SHOWN ON THE PLANS. WHERE POSSIBLE, A LATERAL BUFFER SPACED OF 2 FEET MINIMUM SHOULD BE PROVIDED BETWEEN THE WORK SPACE AND THE LINE OFF DELINEATION DEVICES.
- LONGITUDINAL SPACING SHALL BE 40 FEET FOR POSTED SPEED LIMITS OVER 40 MPH AND 20 FEET FOR SPEED LIMITS 35 MPH OR LESS. THROUGHOUT THE WORK ZONE, REDUCED SPACING MAY BE REQUIRED AS SHOWN IN THE PLANS, SPECIFICATIONS OR ADOBE. INTERSECTIONS AND DRIVEWAYS SHALL BE CHANNELIZED AT 5 FT SPACING.
- WHEN CLOSING A ROADWAY, TYPE III BARRICADES SHALL BE PLACED CONTINUOUSLY FROM EDGE OF CURB/SHOULDER TO EDGE OF CURB/SHOULDER, COMPLETELY CLOSING THE ROADWAY. BARRICADES TO THE RIGHT OF THE ROADWAY CENTERLINE SHALL BE STRIPPED DOWNWARD TO THE LEFT AND BARRICADES TO THE LEFT OF THE ROADWAY CENTERLINE SHALL BE STRIPPED DOWNWARD TO THE RIGHT. FOR OVERNIGHT USE, EACH BARRICADE SHALL BE EQUIPPED WITH "TYPE A" LIGHTING. PVC BARRICADES SHALL HAVE THE BATTERY PACKS LOCATED AT GROUND LEVEL. WHEN CLOSING A ROADWAY THROUGH TRAFFIC, TYPE III BARRICADES SHALL BE STRIPPED DOWNWARD TO THE SIDE LOCAL TRAFFIC IS TO PASS.
- DRUMS OR VERTICAL PANELS (8" x 36" OR 12" x 24") SHALL BE USED DURING THE HOURS OF DARKNESS. "TYPE B" LIGHTS SHALL BE REQUIRED ON THE FIRST DEVICE AND ON THE FIRST DEVICE AFTER EACH INTERSECTION.
- STANDARD CONES AND TUBULAR MARKERS SHALL NOT BE USED FOR CHANNELIZATION AND DELINEATION DURING THE HOURS OF DARKNESS, WHICH IS DEFINED AS THE PERIOD BETWEEN SUNSET AND SUNRISE.
- THE COST OF ANY DELINEATION AND GUIDING DEVICES (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.

SHOULDER AND BARRIER VEHICLES

- THE SHOULDER AND BARRIER VEHICLES SHALL BE PROVIDED AS PER TABLES NY1-A, NY1-B AND LOCATED AS PER TABLES NY2-A AND NY2-B AS APPROPRIATE. IF THE WORK SPACE MOVES WITHIN A STATIONARY LANE OR SHOULDER CLOSURE, SHADOW OR BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY.
- IF A SHOULDER AND BARRIER VEHICLE SHALL BE EQUIPPED WITH AN ARROU PANEL WHICH SHALL OPERATE IN THE "CAUTION MODE", AND WHEN IN USE ON A BARRIER VEHICLE PER SECTION 725-15 OF THE STANDARD SPECIFICATIONS.
- PAYMENT FOR BARRIER VEHICLES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.

SHOULDER BACK-UP

- UNTIL SUCH TIME AS THE SHOULDER BACK-UP MATERIAL IS PLACED, ANY DROP-OFF OF 2 INCHES OR MORE SHALL BE PROTECTED AS PER SECTION 618.02.2K OF THE STANDARD SPECIFICATIONS. 18" SA "SHOULDER DROP-OFF" SIGNS SHALL BE THE ONLY ONES PERMITTED. IN THE EVENT THAT SOLID WHITE EDGE OF PAVEMENT LINES ARE NOT INSTALLED, THE SHOULDER SHALL BE CLOSED IN ACCORDANCE WITH THE SHOULDER CLOSURE TRAFFIC CONTROL PLAN. FAILURE TO COMPLY WITH THE INSTALLATION OF THE SOLID WHITE EDGE LINE WILL RESULT IN THE WITHHOLDING OF ONE DAY'S PAYMENT FOR ITEM 618.01, AS PER SECTION 618-5.01 OF THE STANDARD SPECIFICATIONS TABLE 618-6 FOR EACH DAY THE EDGE LINES ARE NOT IN PLACE.
- SIGNS
- BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED.
- WHERE SHOULDER WIDTHS ARE LIMITED AND SIGNS CANNOT BE ERECTED BEYOND THE SHOULDER, TEMPORARY SIGNS MAY NEED TO BE MOUNTED ON CONCRETE MEDIAN BARRIERS OR BRIDGE PARAPETS, ETC. PRIOR TO ERECTING THOSE SIGNS THE CONTRACTOR SHALL PROVIDE MOUNTING DETAILS TO AND RECEIVE APPROVAL FROM THE ENGINEER.
- SIGNS SHALL NOT ENCRUMBER MORE THAN 4 INCHES INTO SHOULDERS USED BY PEDESTRIANS OR BICYCLES.
- ANY CONSTRUCTION SIGNS DEEMED NECESSARY BY THE ENGINEER AND ARE NOT IN THE PLAN OR PROPOSAL, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
- ALL CONSTRUCTION SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET ABOVE THE EDGE OF THE TRAVEL LANE.
- SIGNS NECESSARY FOR THE WORK ZONE TRAFFIC CONTROL (INCLUDING RELOCATIONS AND/OR MODIFICATIONS AND/OR RESTORATION OF EXISTING) AS NOTED IN THE PLANS, STANDARD SPECIFICATIONS, MUTCD, NEW YORK STATE SUPPLEMENT OR ADOBE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.

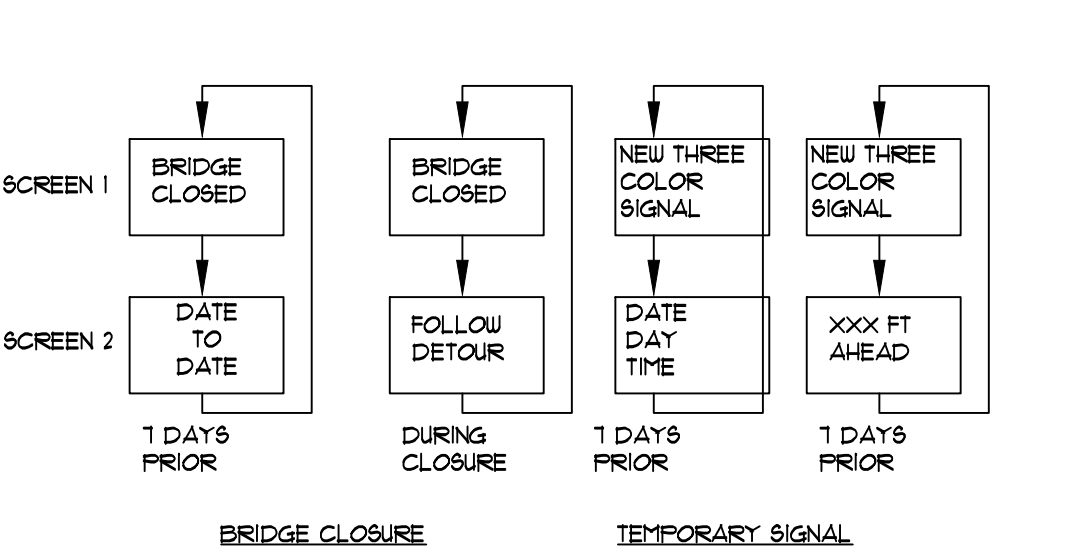
ACCESS

- THE CONTRACTOR SHALL ENSURE THAT ACTIVE LANES OF TRAFFIC ON FREEWAYS ARE NOT CROSSED BY PEDESTRIAN WORKERS, FOR ALL OTHER HIGHWAYS, THE CONTRACTOR SHALL ENSURE THAT PEDESTRIAN WORKERS DO NOT ENTER ACTIVE LANES OF TRAFFIC ONLY AT PROPERLY MARKED OR UNMARKED CROSSEWALKS AND/OR DEDICATED PEDESTRIAN WALKWAYS. IT IS REQUIRED THAT THE PROJECT SAFETY AND HEALTH PLAN ADDRESS ACCESS TO EACH WORK AND STAGING AREA.
- WHERE IT IS FEASIBLE, VEHICLES AND EQUIPMENT USED FOR WORK AND TRANSPORTING OF MATERIALS TO/FROM WORK SITE SHALL ENTER AND LEAVE THE AREA CLOSED BY CHANNELIZING DEVICES WITHIN THE TERMINATION AREA OF THE TEMPORARY TRAFFIC CONTROL ZONE, WHERE SUCH ACCESS WITHIN THE TERMINATIONS AREA IS NOT FEASIBLE, OTHER AREAS FOR ENTRY AND EXIT SHALL BE DETERMINED AND INCLUDED IN THE PROJECT SAFETY AND HEALTH PLAN, INCLUDING ILLUSTRATED EXAMPLES (TYPICALS) TO CLEARLY SHOW THE TEMPORARY TRAFFIC CONTROL ELEMENTS THAT WILL BE PROVIDED.

VARIABLE MESSAGE SIGN

- THE USE OF PORTABLE VARIABLE MESSAGE SIGNS (PVMS) IS INTENDED TO ADVISE TRAFFIC OF UPCOMING AND ACTUAL CHANGES TO REGULAR TRAFFIC PATTERNS.
- THE PVMS SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE WORK ZONE TRAFFIC CONTROL (WZTC) PLANS AND OTHER LOCATIONS SPECIFIED BY THE ENGINEER. THE PVMS SHALL BE PLACED SEVEN (7) DAYS BEFORE ANY BRIDGE/ROAD CLOSURE AND/OR ANY TEMPORARY SIGNAL PLACEMENT IS TO BEGIN AND WILL REMAIN IN PLACE UNTIL ALL WORK WITHIN A DESIGNATED WZTC PHASE HAS BEEN COMPLETED. SEVEN (7) DAYS PRIOR TO A CLOSURE TAKING PLACE, AND/OR ANY TEMPORARY SIGNAL PLACEMENT, THE INITIAL MESSAGE SHOWN IN THE CONTRACT PLANS SHALL BE DISPLAYED. ONCE CLOSURE HAS TAKEN PLACE AND/OR TEMPORARY SIGNAL IS ACTIVATED, THE PVMS'S SHALL REMAIN ON FOR THE DURATION OF THE CLOSURE AND/OR ACTIVATED TEMPORARY SIGNAL DISPLAYED WITH THE MESSAGE SHOWN IN THE PLANS.
- PVMS UNITS TO BE LOCATED WITHIN SHOULDER CLOSURE PER STANDARD SHEET 618-22 WHEN LOCATED WITHIN CLEAR ZONE.
- PVMS UNITS LOCATED BEHIND GUIDE RAIL SHALL NOT BE LOCATED WITHIN RAIL DEFLECTION DISTANCE. SEE SECTION 618 OF THE STANDARD SPECIFICATIONS.
- PVMS UNITS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 618 OF THE STANDARD SPECIFICATION AND ITEM 618.10XX.
- SEE DRAWING NOS. XX-XX FOR PORTABLE VARIABLE MESSAGE SIGN (PVMS) LOCATIONS.
- THE CONTRACTOR SHALL PROVIDE THE EIC WITH THE MODEL, MANUFACTURER DATE AND MANUFACTURER OF WHICH THE NATIONAL TRANSPORTATION COMMUNICATION FOR ITS PROTOCOL (NTCIP) COMPLIANT PVMS THE CONTRACTOR PLANS TO USE FROM THE DEPARTMENTS "APPROVED" LIST. THE PVMS WILL NEED TO ACCEPT ANY COMMUNICATIONS FROM THE NYSDOT REGIONAL TRANSPORTATION MANAGEMENT CENTER (RTMC) IN SYRACUSE, NY.

NOTE TO DESIGNER: THE FOLLOWING MESSAGE AND DURATIONS ARE EXAMPLES OF WHAT SHOULD BE SHOWN ON THE PLANS AT THE PVMS LOCATIONS.



PAVEMENT MARKINGS

- PAVEMENT MARKINGS TO BE DEACTIVATED SHALL BE COVERED WITH A TAPE OR DESIGNATED FOR PURPOSE. THE COST OF COVERING EXISTING PAVEMENT MARKING LINES SHALL BE PAID UNDER ITEM 618.02.03. LETTER/SYMBOL MARKINGS SHALL BE PAID UNDER ITEM 618.02.04.
- THE CONTRACTOR SHALL PROVIDE PAVEMENT MARKINGS AT ALL TIMES, ON ALL PAVEMENT, WHETHER EXISTING, TEMPORARY OR NEW, UNTIL PERMANENT MARKINGS ARE INSTALLED OR RESTORED. THIS SHALL INCLUDE AT ALL LOCATIONS, EDGE LINES, CENTERLINE, LANE LINES (SOLID OR BROKEN), CHANNELIZING LINES, DOTTED LINES, PLUS ANY MARKINGS ORDERED BY THE ENGINEER. ALL MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MUTCD AND NEW YORK STATE SUPPLEMENT AND SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES. THESE MARKINGS SHALL BE PAID FOR AS SHOWN IN THE CONTRACT PLANS.
- TEMPORARY OR INTERIM PAVEMENT MARKINGS COMPRISED OF TRAFFIC MARKING PAINT SHALL BE REPAINTED AT NO ADDITIONAL COST WHEN 10% OF THE UNDERLYING PAVEMENT IS VISIBLE THROUGH THE PAVEMENT MARKING OR WHEN THE ENGINEER DEEMS REFLECTIVITY IS INADEQUATE.
- PAVEMENT MARKINGS TO BE MAINTAINED OVER THE WINTER SHALL BE PERMANENT MARKINGS, PAID UNDER ITEM 618.03, REFLECTORIZED PAINT MARKINGS.

PUBLIC INGRESS AND EGRESS

- THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS, AS SHOWN IN THE PLANS AND ADOBE TO THEIR DRIVEWAYS AND SHALL MAINTAIN THEM THROUGH ALL PHASE WORK AREAS AND SHALL DELINEATE THEM BY MEANS OF SIGNS AND CHANNELIZING DEVICES. ADOBE, THE COST FOR SIGNS AND OTHER WORK ZONE TRAFFIC CONTROL (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
- WHEN DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH PLANS TO THE ENGINEER FOR APPROVAL. PROPERTY OWNERS/OCCUPANTS SHALL HAVE 24 HOURS NOTICE OF ANY CHANGES. COST OF THIS SERVICE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
- WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AND FLAGGERS STATIONED AT APPROPRIATE LOCATIONS FOR THE DURATION OF THE WORK. FLAGGERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.

FLAGGERS

- STOP/BLANK PADDLES SHALL BE USED FOR FLAGGING AND SHALL BE FABRICATED WITH ASTM TYPE IX SHEETING, SHALL BE A MINIMUM OF 24 INCHES AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD SPECIFICATION 179-05. THE COST OF THE PADDLES AND ALL FLAGGERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
- FLAGGERS SHALL NOT POSITION THEMSELVES DIRECTLY IN THE PATH OF ONCOMING TRAFFIC. THE FLAGGER SHALL STAND EITHER ON THE SHOULDER ADJACENT TO THE TRAFFIC BEING CONTROLLED OR IN THE CLOSED/CHANNELIZED LANE. AT ALL TIMES THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH A CLEAR ESCAPE PATH FREE OF PARKED VEHICLES, EQUIPMENT OR OTHER OBSTACLES.
- WHEN THE CONTRACTOR FLAGGER PROVIDES FLAGGERS, RIGHT OF WAY IS IMPAIRED BY THE OPERATIONS OR ANY OTHER SITUATION DUE TO THE PROJECT, ADOBE.
- FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF THE ENGINEER DEEMS IT NECESSARY. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
- FLAGGERS SHALL USE THE FREE HAND FOR EMPHASIS AS SHOWN IN CHAPTER 6E OF THE MUTCD AND THE NEW YORK STATE SUPPLEMENT. UNDER CERTAIN GEOMETRIC AND TRAFFIC SITUATIONS, MORE THAN ONE FLAGGER MAY BE REQUIRED. EACH FLAGGER SHALL CONTROL NO MORE THAN AN APPROACH OF TRAFFIC. MULTIPLE LANE APPROACHES SHALL BE REDUCED TO A SINGLE LANE PRIOR TO THE FLAGGER STATION.
- FLAGGER STATIONS SHOULD BE VISIBLE FAR ENOUGH AHEAD TO ALLOW ALL VEHICLES TO STOP AS PER TABLE 6A-2 OF THE MUTCD. FLAGGERS SHALL BE EQUIPPED WITH AN EMERGENCY AIRHORN TO ALERT WORKERS TO AN ERRANT VEHICLE OR ANY OTHER DANGEROUS SITUATION.
- PRIOR TO USING A FLAGGER, THE CONTRACTOR SHALL PROVIDE THE DOCUMENTATION OF THE FLAGGER TRAINING, PER SECTION 618-3.02 OF THE STANDARD SPECIFICATION.
- WHEN A PEDESTRIAN APPROACHES A FLAGGER STATION, THE FLAGGER SHALL STOP TRAFFIC AND DIRECT THE PEDESTRIAN TO A SAFE ROUTE THROUGH THE WORK AREA. FLAGGERS SHALL COORDINATE THE FLAGGING OF THE WORK ZONE TO ENSURE PEDESTRIANS CAN SAFELY PROCEED THROUGH THE WORK AREA. IF THERE IS MORE THAN ONE OCCASIONAL PEDESTRIAN WITHIN THE PROJECT LIMITS, REFER TO THE SITE SPECIFIC PEDESTRIAN WZTC PLAN.

PEDESTRIANS

- WHENEVER FEASIBLE, MAINTAIN SAFE PEDESTRIAN ACCESS ON EXISTING WALKWAYS.
- IF A TEMPORARY PEDESTRIAN WALKWAY IS LESS THAN 5 FEET WIDE AND OVER 200 FEET IN LENGTH, THE CONTRACTOR SHALL FURNISH A 5 FT AREA WHERE WHEELCHAIRS CAN PASS EVERY 200 FEET. THESE WALKWAYS SHALL BE A MINIMUM OF 4 FEET UNLESS OTHERWISE SHOWN ON THE PLANS.
- WHERE IT IS DETERMINED BY THE ENGINEER THAT THERE IS A LIKELIHOOD OF PEDESTRIANS LEAVING THE DEDICATED WALKWAY TO CROSS THE ACTIVE LANE OF TRAFFIC, THE CHANNELIZING DEVICES SHALL BE SUPPLEMENTED WITH A R3-38 "NO PEDESTRIAN CROSSING" SYMBOL SIGN TO RESTRICT THE PEDESTRIAN MOVEMENT.

WORK ZONE TRAFFIC CONTROL NOTIFICATION REQUIREMENTS

- REGION 3 HAS A WORK ZONE TRAFFIC CONTROL (WZTC) NOTIFICATION POLICY WHICH REQUIRES ENGINEERS/CONTRACTOR TO NOTIFY THE REGIONAL TRANSPORTATION MANAGEMENT CENTER (RTMC) PRIOR TO ALLOWING A CONTRACTOR TO IMPLEMENT WORK ZONE TRAFFIC CONTROL ACTIVITIES WITHIN THE HIGHWAY RIGHT-OF-WAY. WORK ZONE NOTIFICATION IS REQUIRED FOR THE FOLLOWING:
- FREEWAYS AND EXPRESSWAYS: ALL LANE, SHOULDER, ROAD, RAMP OR BRIDGE CLOSURES. (THIS INCLUDES MOBILE OPERATIONS WHICH OCCUPY THE LANE OR SHOULDERS.)
- ALL OTHER STATE HIGHWAYS: ALL LANE CLOSURES WHERE DURATION WILL BE GREATER THAN 1 HOUR AND ALL ROAD/BRIDGE CLOSURES.
- THE CONTRACTOR SHALL REPORT PROPOSED WZTC ACTIVITIES NOTED ABOVE TO THE RTMC BY NOON OF THE BUSINESS DAY (IE MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS) PRECEDING THE PROPOSED WZTC ACTIVITY. FAILURE TO DO SO WILL RESULT IN DISAPPROVAL TO PERFORM THE UNREPORTED WZTC ACTIVITY UNTIL THE ABOVE NOTIFICATIONS REQUIREMENTS ARE SATISFIED.
- NO PLANNED WZTC ACTIVITY SHALL BE IMPLEMENTED WITHOUT FIRST RECEIVING CLEARANCE FROM THE RTMC.

EMERGENCY ACCESS

- DURING WORK OPERATIONS ON OR NEAR SIDE ROADS AND DRIVEWAYS, THE CONTRACTOR SHALL MAINTAIN ACCESS TO THOSE SIDE ROADS AND DRIVEWAYS FOR EMERGENCY VEHICLES.
- OVERSIZE VEHICLE RESTRICTIONS
- THE CONTRACTOR SHALL REPORT ANY RESTRICTION (AS DEFINED BELOW) ON STATE HIGHWAYS, RAMPS OR BRIDGES AT LEAST SIX (6) BUSINESS DAYS (IE MONDAY THROUGH FRIDAY EXCLUDING HOLIDAY) IN ADVANCE OF THE RESTRICTION SIX (6) DAYS LEAD TIME IS NECESSARY TO PROVIDE THE RTMC ADEQUATE TIME TO PREVENT ISSUANCE OF SPECIAL HAULING PERMITS THAT WOULD ROUTE OVERSIZE VEHICLES OVER THE RESTRICTED SECTION OF THIS CONTRACT. RESTRICTIONS SHALL BE DEFINED AS ONE OR MORE OF THE FOLLOWING:
 - A COMPLETE CLOSURE OF A HIGHWAY, RAMP OR BRIDGE.
 - THE INSTALLATION OF BARRIER OR CHANNELIZING DEVICES THAT RESULT IN AN UNOBSTRUCTED WIDTH LESS THAN 18 FT ALONG A HIGHWAY, RAMP OR BRIDGE.
 - SUITABLE DRIVING SURFACES OF LESS THAN 18 FT IN WIDTH.
 - AVAILABLE VERTICAL CLEARANCE ABOVE THE HIGHWAY IS LESS THAN 14 FT IN HEIGHT.
 - WORK WOULD LIMIT VEHICLE LENGTH (IE TURNING ABILITY).
 - CHANGING THE LOAD CAPACITY OF A HIGHWAY, RAMP OR BRIDGE.
 - NO PLANNED WORK ACTIVITY RESULTING IN A RESTRICTION SHALL BE IMPLEMENTED WITHOUT FIRST RECEIVING CLEARANCE FROM THE RTMC.
 - THE COST OF THIS RESTRICTION REPORTING/NOTIFICATION SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
 - THE CONTRACTOR SHALL GIVE VERBAL NOTIFICATION AT LEAST SEVEN (7) BUSINESS DAYS (IE MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS) PRIOR TO AND AT THE END OF A RESTRICTION ON ANY ROADWAY TO THE ONONDAGA COUNTY EMERGENCY MANAGEMENT CENTER (315) 435-2525.

SIGNALIZED INTERSECTIONS

- WHEN CONSTRUCTION OPERATIONS EFFECT SIGNALIZED INTERSECTIONS, THE TRAFFIC SIGNAL SHALL BE TURNED OFF BEFORE PROCEEDING WITH THE FLAGGING OPERATION, AND ANY EXISTING W3-3 SIGNS COVERED.
- THE CONTRACTOR SHALL OBTAIN A POLICE PANEL KEY FROM, AND RETURN IT TO, THE REGIONAL POLICE DEPARTMENT.
- THE CONTRACTOR MUST RETURN THE SIGNAL TO 3-COLOR OPERATION AT THE END OF THE WORK OPERATION. IF THE SIGNAL DOES NOT RETURN TO 3-COLOR OPERATION, THE CONTRACTOR SHALL NOTIFY THE REGION 3 SIGNAL CREW AND MUST CONTINUE FLAGGING UNTIL THE SIGNAL IS RESTORED.
- THE NYSDOT SIGNAL CREW EIC CAN BE REACHED AT (315) 428-4064 or (315) 428-2191.

MISCELLANEOUS

- THE PERMITTEE SHALL BE AWARE THAT THE WORK ZONE TRAFFIC CONTROL IS A VERY CRITICAL ITEM OF THE PERMIT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 618 WORK ZONE TRAFFIC CONTROL OF THE STANDARD SPECIFICATIONS, THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT. THE PERMITTEE SHALL BE RESPONSIBLE FOR WORK ZONE TRAFFIC CONTROL AT ALL TIMES FOR THE DURATION OF THE PERMITTED WORK.
- ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS. DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY. SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBSCURED FROM SIGHT. ALL SIGN NUMBERS REFER TO THE 2009 EDITIONS OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK SUPPLEMENT.
- PEDESTRIAN ACCOMMODATIONS SHALL BE MAINTAINED FOR THE DURATION OF THE PROPOSED WORK. ANY DISTURBED AREAS WITH THE STATE RIGHT-OF-WAY SHALL BE ADEQUATELY FENCED TO PREVENT PEDESTRIAN ACCESS WHEN THE CONTRACTOR'S OPERATIONS ARE SHUT DOWN.
- MATERIALS, EQUIPMENT AND WORK VEHICLES SHALL NOT BE STORED OR PARKED WITHIN THE STATE RIGHT-OF-WAY BEFORE WORK BEGINS OR AFTER CONTRACTOR'S OPERATIONS ARE SHUT DOWN. STAGING AREAS OUTSIDE THE RIGHT-OF-WAY SHALL BE USED TO STOCKPILE ALL CONSTRUCTION MATERIALS. DURING WORKING HOURS, NO CONSTRUCTION MATERIAL MAY BE STORED OR PLACED ON THE ROADWAY OR ROADBED EXCEPT WITHIN A PROTECTED WORK AREA.
- VEHICLES BELONGING TO THE PERMITTEE OR WORKERS SHALL NOT BE PARKED WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC, UNLESS THEY ARE PARKED WITHIN A PROTECTED WORK AREA. DURING NON WORKING HOURS, CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITH 30 FEET OF THE EDGE OF PAVEMENT.
- W30-1A "FLAGGER" SIGNS SHALL BE USED WHENEVER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGNS SHALL BE PROMPTLY REMOVED, COVERED, OR FACED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES. ALL FLAGGING STATIONS AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM VISIBILITY.
- NO DROP OFF GREATER THAN SIX INCHES SHALL BE LEFT OVERNIGHT WITHIN 30 FEET OF THE EDGE OF PAVEMENT. DROP-OFFS LESS THAN SIX INCHES WILL BE PERMITTED IF PROPER DELINEATION AND SIGNING IS PROVIDED, AND PRIOR PERMISSION IS GRANTED IN WRITING BY A REPRESENTATIVE OF THE DEPARTMENT. A DROP OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 6 SLOPE OR FLATTER.
- CARE SHALL BE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO THE EXISTING PAVEMENT/SHOULDER/CURBS AREAS AS A RESULT OF CONSTRUCTION EQUIPMENT MOVEMENT.
- THE PERMITTEE MAY SUBMIT REVISIONS TO THE PLAN FOR APPROVAL, BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE REGIONAL DIRECTOR OR HIS DESIGNEE.

NYSDOT STANDARD GENERAL PLAN NOTES

- THE ROADWAY SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- ROADSIDE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
- MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.
- WORK ZONE TRAFFIC CONTROL SHALL COMPLY WITH THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT, AND SHALL BE IN ACCORDANCE WITH THE NYSDOT CONTRACT OR HIGHWAY WORK PERMIT DOCUMENTS AND AS DEEMED NECESSARY BY THE NY'S ENGINEER IN CHARGE.

ONONDAGA EAST 315-458-1910 ONONDAGA WEST 315-672-8151 CORTLAND/TOMPKINS 607-756-1072 OSWEGO 315-963-3730 CATTAGUS/GENECA 315-539-3172

- NOTIFY NEW YORK STATE DEPARTMENT OF TRANSPORTATION RESIDENT ENGINEER AT THE APPLICABLE RESIDENCY, THREE WORKING DAYS PRIOR TO WORKING IN THE STATE RIGHT-OF-WAY.

- NOTIFY DIG SAFELY NEW YORK THREE WORKING DAYS PRIOR TO DIGGING, DRILLING OR BLASTING AT 1-800-962-7362, FOR A UTILITY STAKE-OUT.

- ALL WORK CONTINGENT AND MATERIALS USED WITHIN THE NY'S RIGHT-OF-WAY SHALL BE COVERED BY AND IN CONFORMITY WITH THE NY'S DEPARTMENT OF TRANSPORTATION MAY 1, 2008 SPECIFICATIONS BOOK AND ANY SUBSEQUENT ADDENDA ALONG WITH ANY APPROPRIATE CURRENT NY'S DEPARTMENT OF TRANSPORTATION STANDARD SHEETS, EXCEPT AS MODIFIED IN THESE PLANS AND IN THE ITEMIZED PROPOSAL. METRIC UNITS MAY BE CONVERTED TO ENGLISH.

- QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 402 OF THE STANDARD SPECIFICATIONS. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.

- NO NIGHT WORK WILL BE ALLOWED UNLESS PRIOR APPROVAL IS GIVEN BY THE DEPARTMENT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC WILL BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.

- HAZARDOUS WASTE NOTIFICATION - THE PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY IN ITS AS IS CONDITION. THE DEPARTMENT OF TRANSPORTATION MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREUNDER. SHOULD PERMITTEE FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE DEPARTMENT OF TRANSPORTATION SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE DEPARTMENT WILL PERMIT THE PERMITTEE TO REMOVE, MODIFY OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURE FEATURE OR IMPEDIMENT IF SUCH IS DONE IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS PRE-APPROVED BY THE DEPARTMENT OF TRANSPORTATION. SHOULD PERMITTEE DETERMINE THAT SUCH UNOBTAINED UNDERGROUND IMPEDIMENT RENDERS PERMITTEES WORK AS AUTHORIZED BY THIS PERMIT UNFEASIBLE, PERMITTEE SHALL HAVE THE OPTION OF RESTORING THE HIGHWAY TO ITS ORIGINAL CONDITION AND NOT PERFORMING SUCH WORK.

- OPEN CUTTING OF THE ROADWAY SHALL NOT BE ALLOWED UNLESS PERMISSION IS GRANTED IN WRITING, BY THE REGIONAL TRAFFIC ENGINEER.



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SEAL:

PLANNING
BOARD
SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY
HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION

AM JOB NO.

MPT
PLAN

DATE ISSUED:

05/02/22

L4.2

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TABLE NY1-A
BARRIER VEHICLE USE REQUIREMENTS
(LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION ¹	USE REQUIREMENTS ^{4,5}			
		FREEMAN	NON-FREEMAN	PRECONSTRUCTION POSTED SPEED LIMIT ¹	POSTED SPEED LIMIT ¹
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED ³	REQUIRED ³	REQUIRED ³	OPTIONAL ²
	NON-TRAVERSABLE HAZARD (E.G. EQUIPMENT, MATERIALS, EXCAVATION ONLY) NO WORKERS EXPOSED	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²
	NON-TRAVERSABLE HAZARD (E.G. EQUIPMENT, MATERIALS, EXCAVATION ONLY) NO WORKERS EXPOSED	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER PRESENT, MOBILE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED).

2. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 60-2) SHALL BE PROVIDED.

3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED SHOULDER IF OR GREATER IN WIDTH, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRAVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING ALL WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE, WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.

4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 60-2) SHALL BE PROVIDED.

5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 60-2) SHALL BE PROVIDED.

TABLE NY1-B
SHADOW VEHICLE USE REQUIREMENTS
(MOBILE CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS			
		FREEMAN	NON-FREEMAN	PRECONSTRUCTION POSTED SPEED LIMIT ¹	POSTED SPEED LIMIT ¹
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{3,4}	REQUIRED ^{3,4}	REQUIRED ^{3,4}	REQUIRED ^{3,4}
	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{3,4}	REQUIRED ^{3,4}	REQUIRED ^{3,4}	REQUIRED ^{3,4}

1. A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.

2. SHADOW VEHICLES SHALL BE EQUIPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEMAN ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 50 MPH OR MORE, SHOULDER CLOSURES ON FREEWAYS, AND SHOULDER CLOSURES ON NON-FREEMAN ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 45 MPH OR MORE.

3. FOR MOBILE LANE CLOSURES ON NON-FREEMAN ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 50 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEMAN ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 45 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.

4. A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS ON FOOT OR IN A VEHICLE AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER IF OR GREATER IN WIDTH. ADDITIONAL SHADOW VEHICLES MAY BE REQUIRED TO PROTECT THE SAFE OPERATION OF TRAFFIC AND THE INDIVIDUAL PROTECTION OF EXPOSED WORKERS, AS DIRECTED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.

TABLE NY2-A
PLACEMENT DISTANCE FOR BARRIER VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.)			
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
≥ 55	180	200	180	200
45 - 55	100	120	100	120
< 45	85	100	85	100

1. AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619. BARRIER VEHICLE - VEHICLE USED FOR STATIONARY SHOULDER CLOSURES, LANE CLOSURES, AND OTHER STATIONARY WORK ZONES. MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY2-B
PLACEMENT DISTANCE FOR SHADOW VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.)			
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
≥ 55	200	220	200	220
45 - 55	180	200	180	200
< 45	100	120	100	120

1. AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619. SHADOW VEHICLE - VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS. MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE 61-4 FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (SI) MPH	TAPER LENGTH (L) FT.	L = WS ² / 160	L = WS
45 MPH OR MORE	160	160	160

TABLE 61-3 TAPER LENGTH FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L) FT.
MERGING TAPER	160
SHOULDER TAPER	160
ONE-LANE, TWO-WAY TRAFFIC TAPER	160
DOWNGRADE TAPER	160

TABLE 61-2 FLARE RATES FOR POSITIVE BARRIER

TYPE OF POSITIVE BARRIER	FLARE RATES (FT.)			
	A	B	C	D
TEMPORARY CONCRETE BARRIER	100	100	100	100
BOX BEAM OR HEAVY POST CORRUGATED BEAM	100	100	100	100

TABLE NY18-3 ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT.)			
	A	B	C	D
URBAN (≤ 30 MPH)	100	100	100	100
URBAN (35-40 MPH)	200	200	200	200
URBAN (45 MPH)	350	350	350	350
RURAL	500	500	500	500
EXPRESSWAY / FREEWAY	1000	1000	1000	1000

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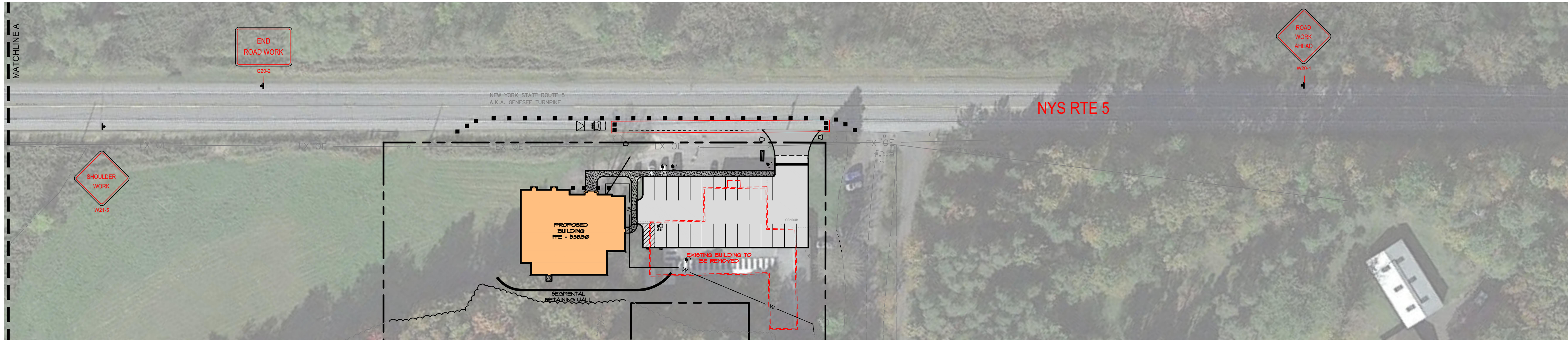
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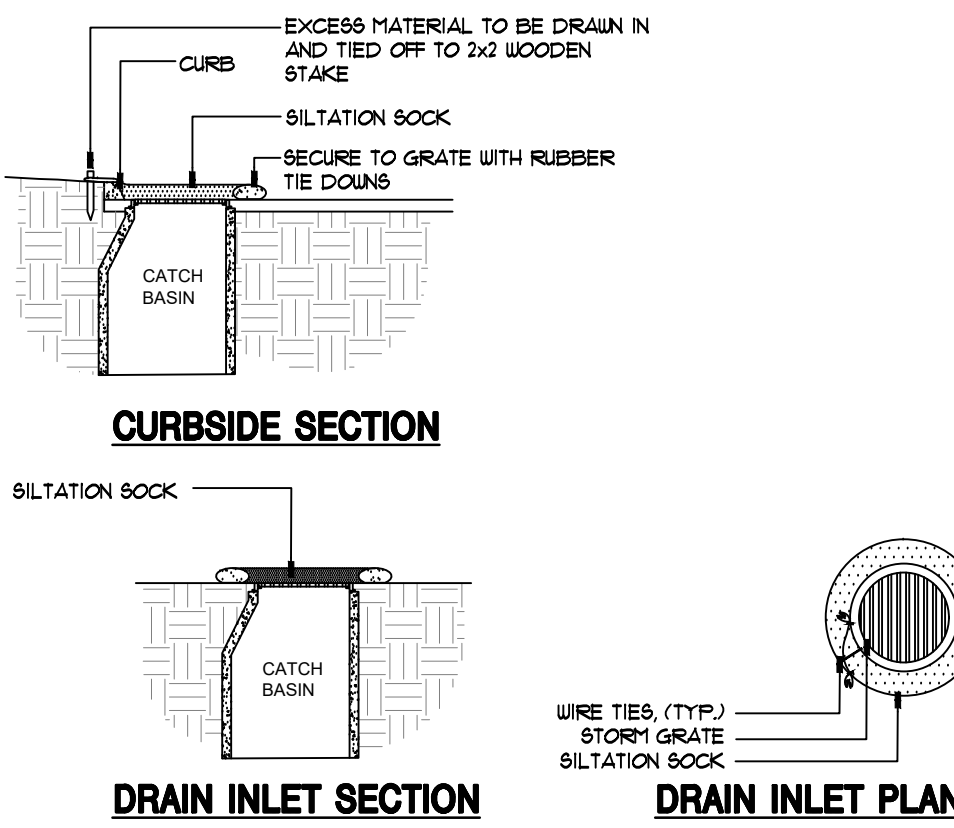
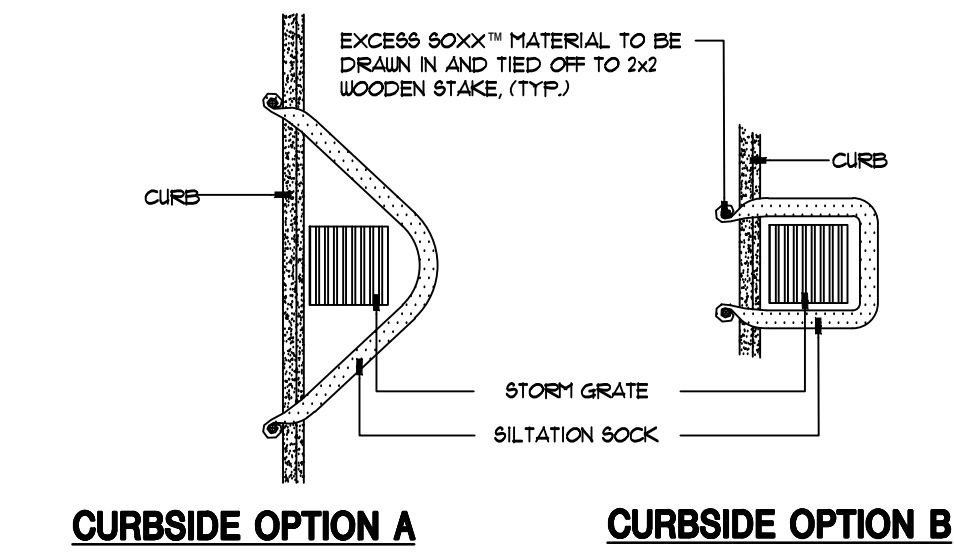
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AM JOB NO.

WORK ZONE
TRAFFIC
CONTROL
PLAN

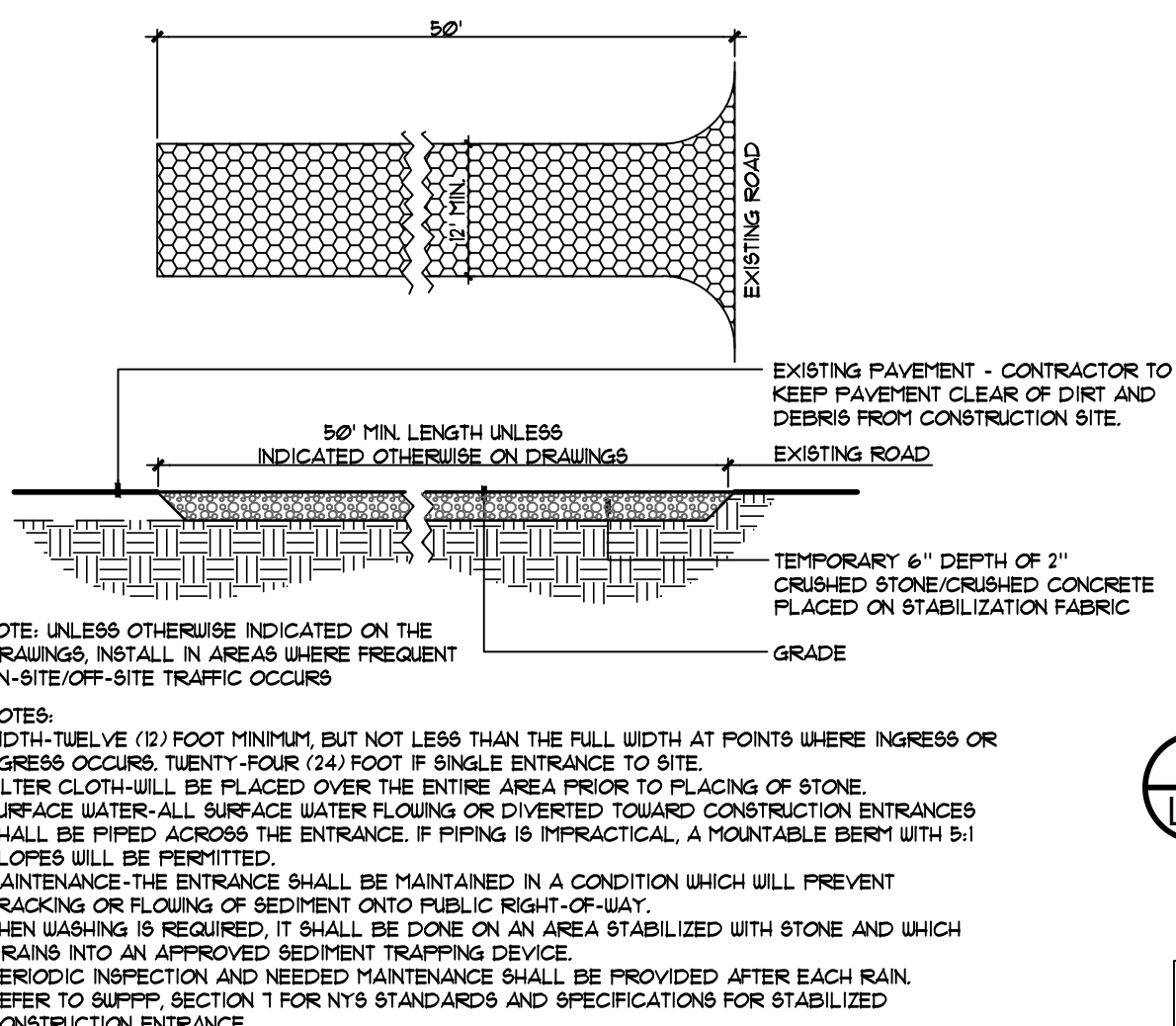
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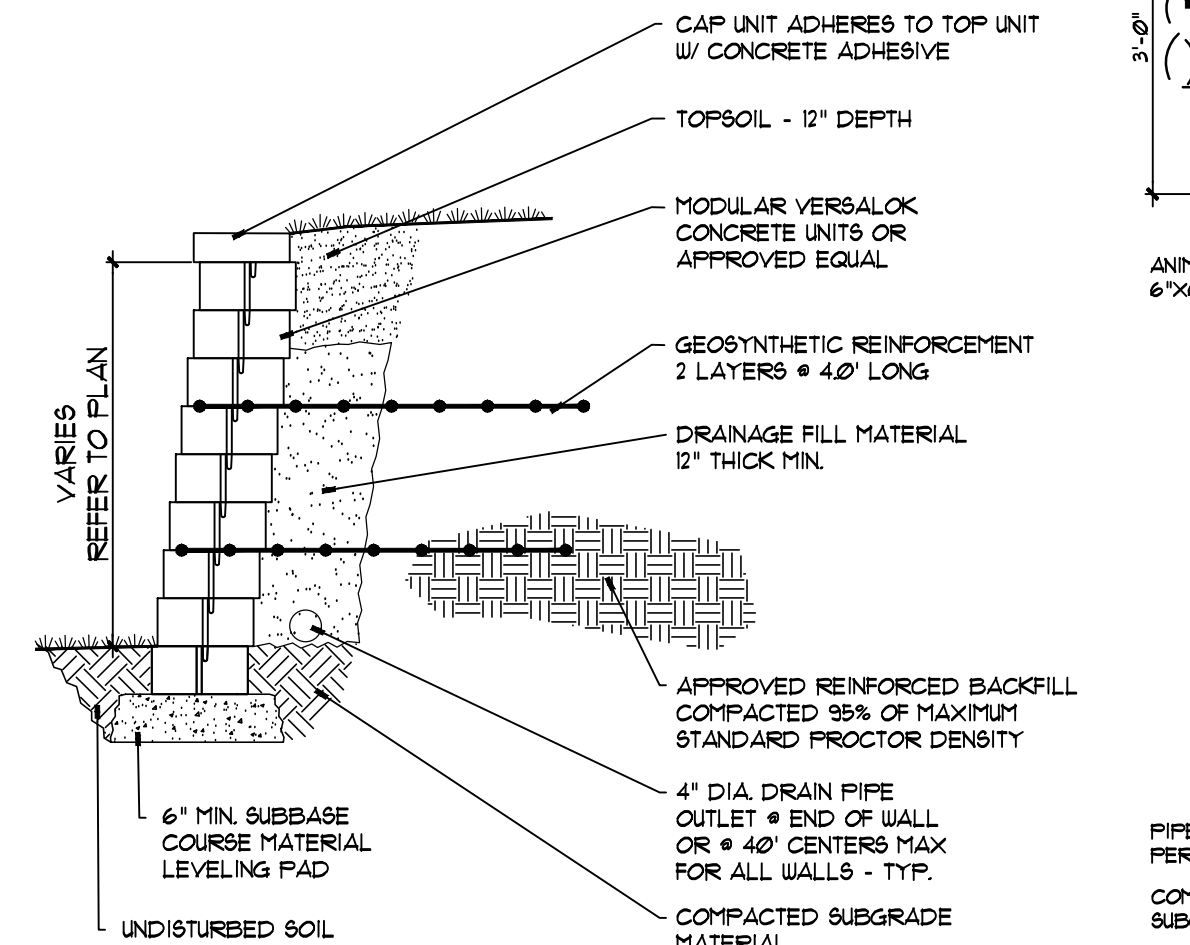


NOTES:
1. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS.
2. FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

19 SILTATION SOCK INLET PROTECTION
L5.1 NOT TO SCALE

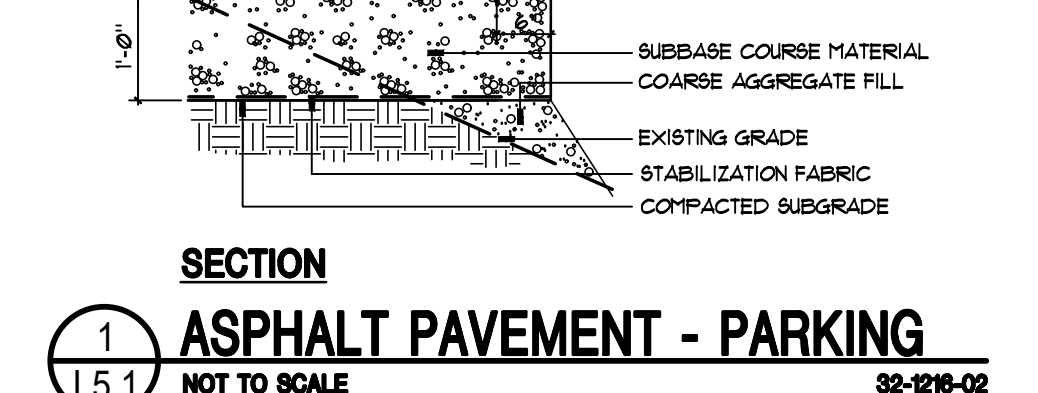
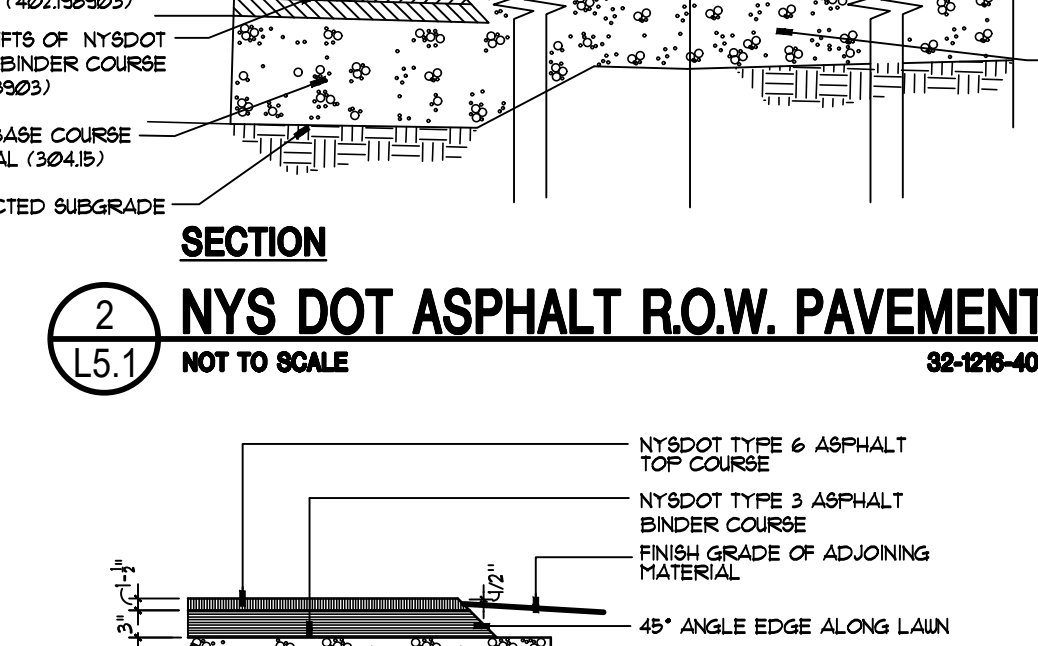
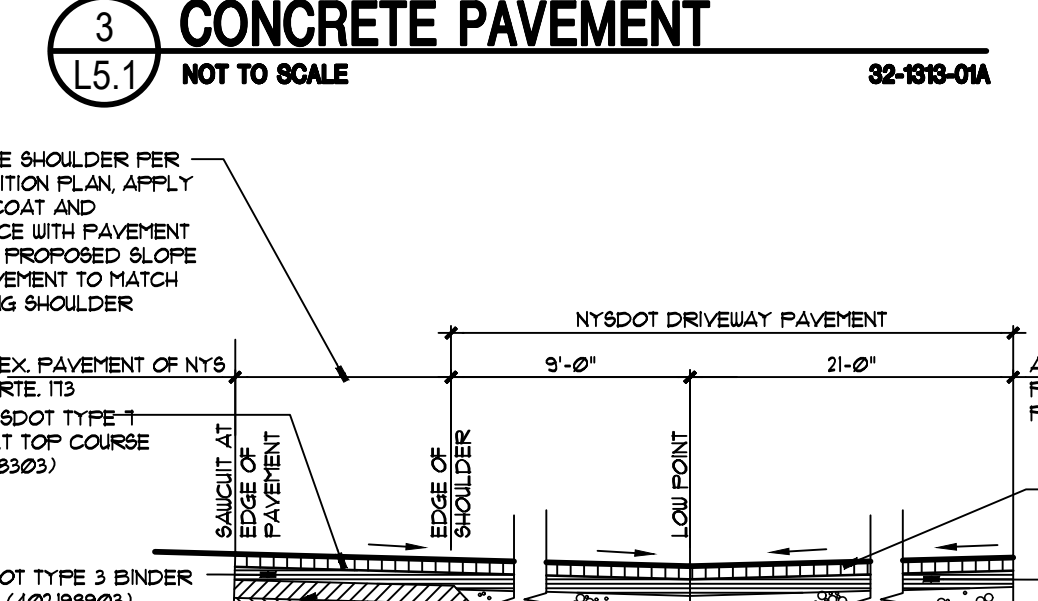
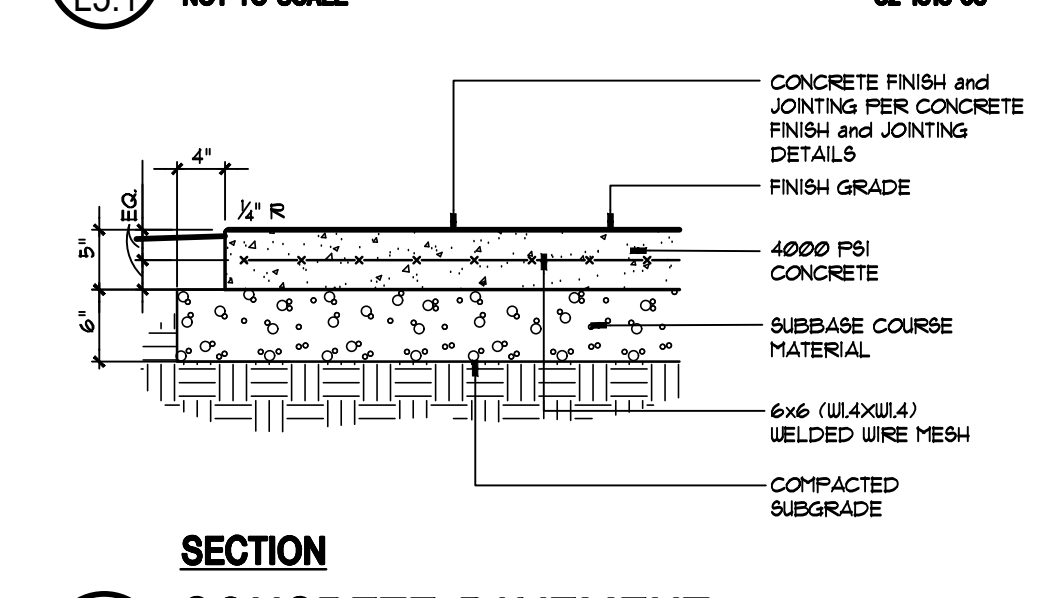
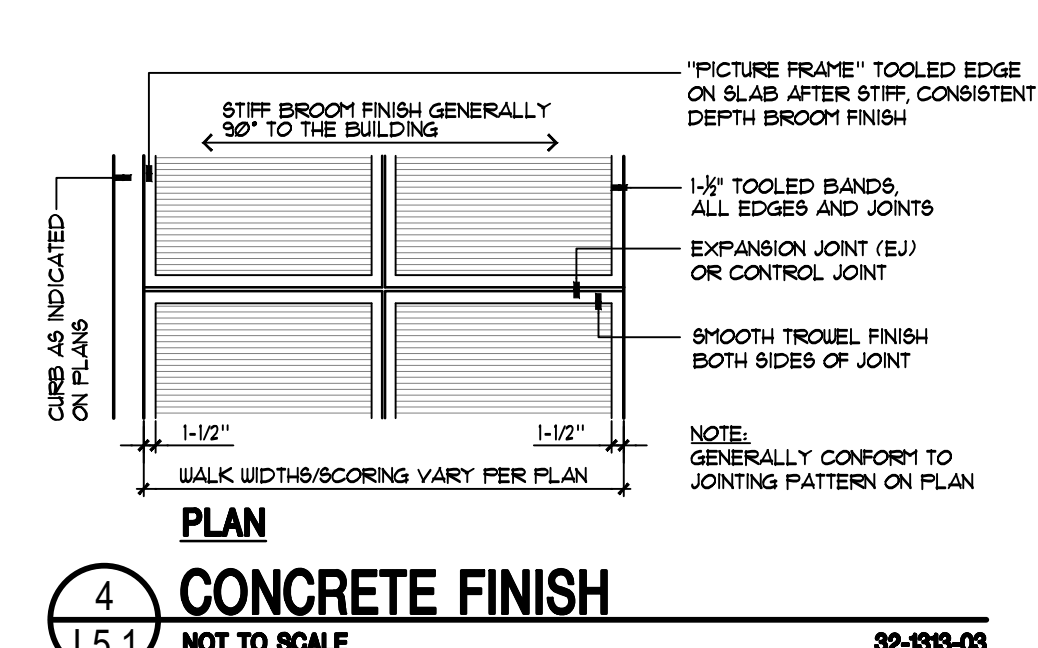
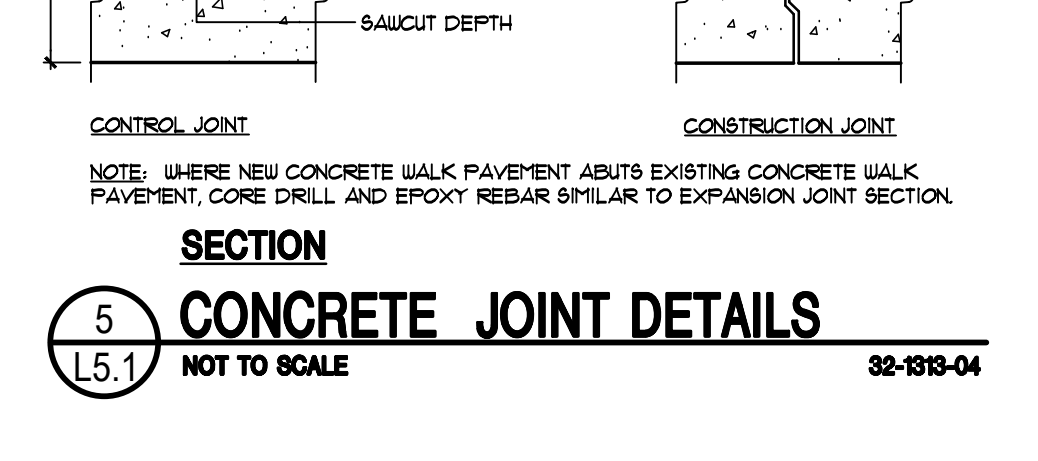
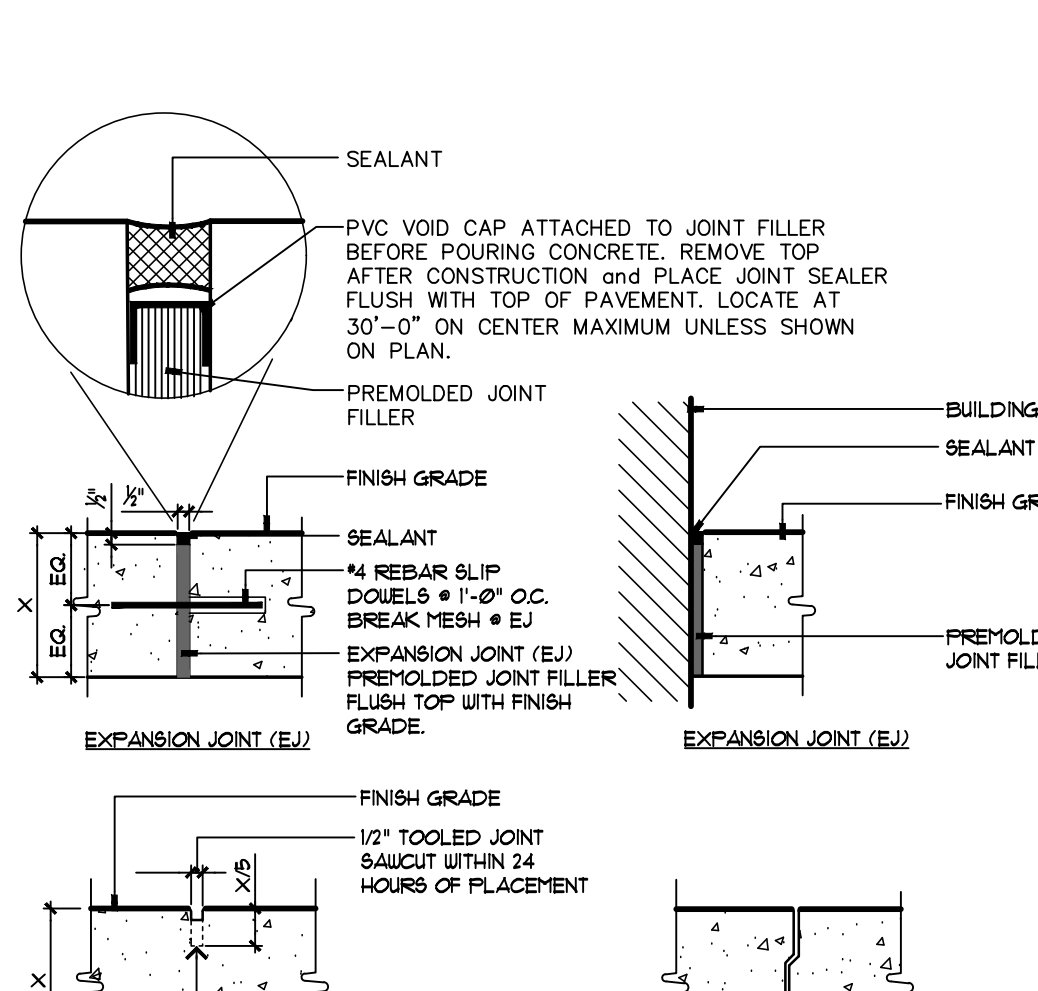
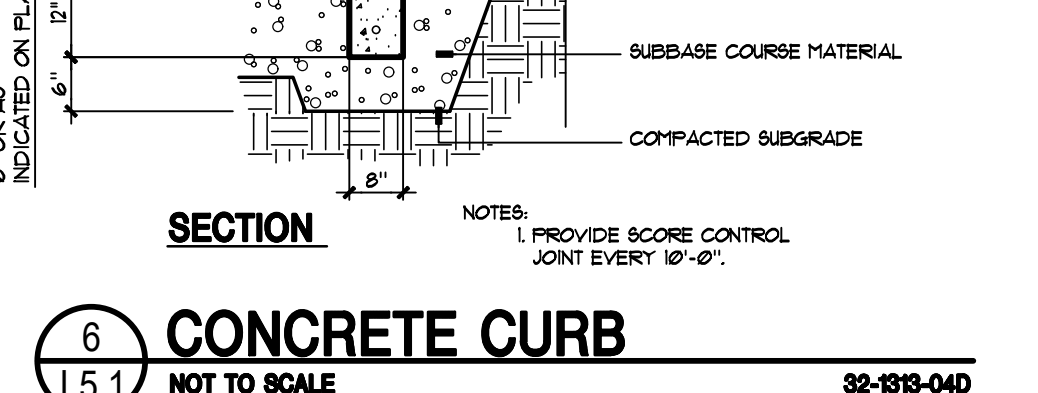
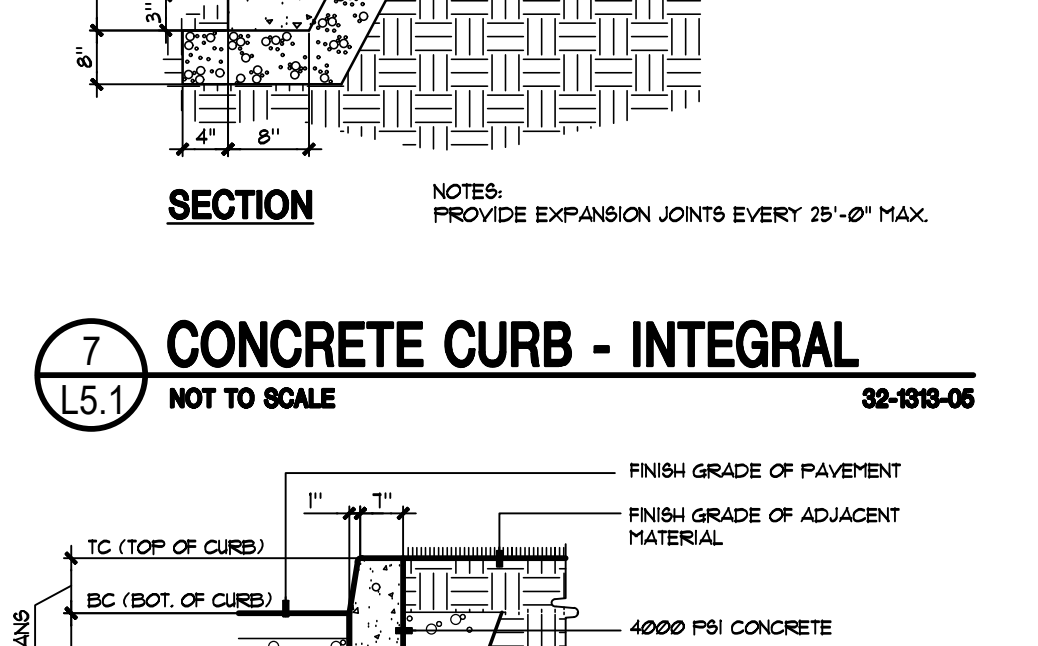
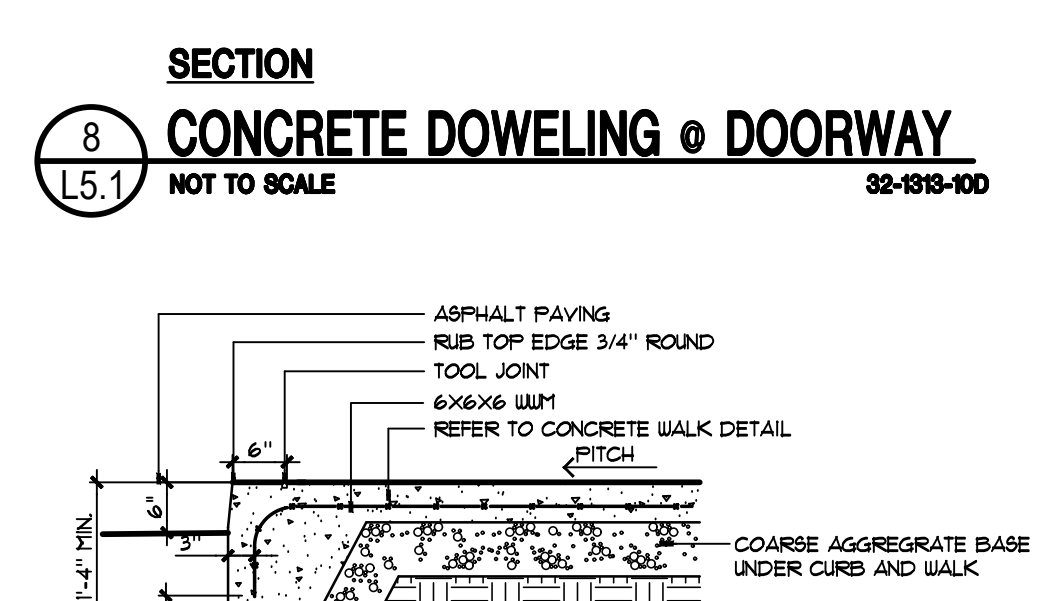
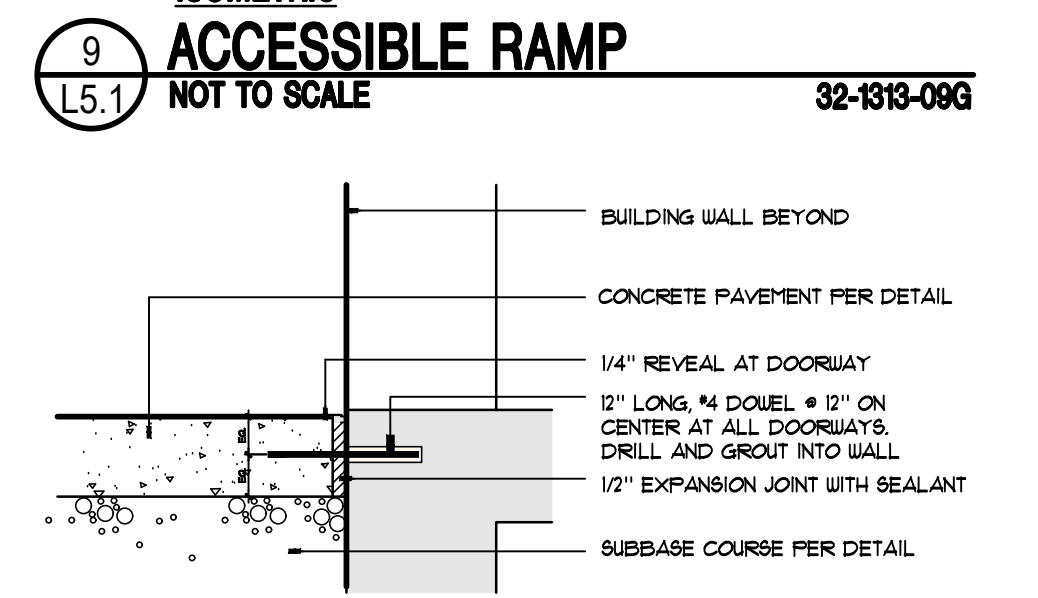
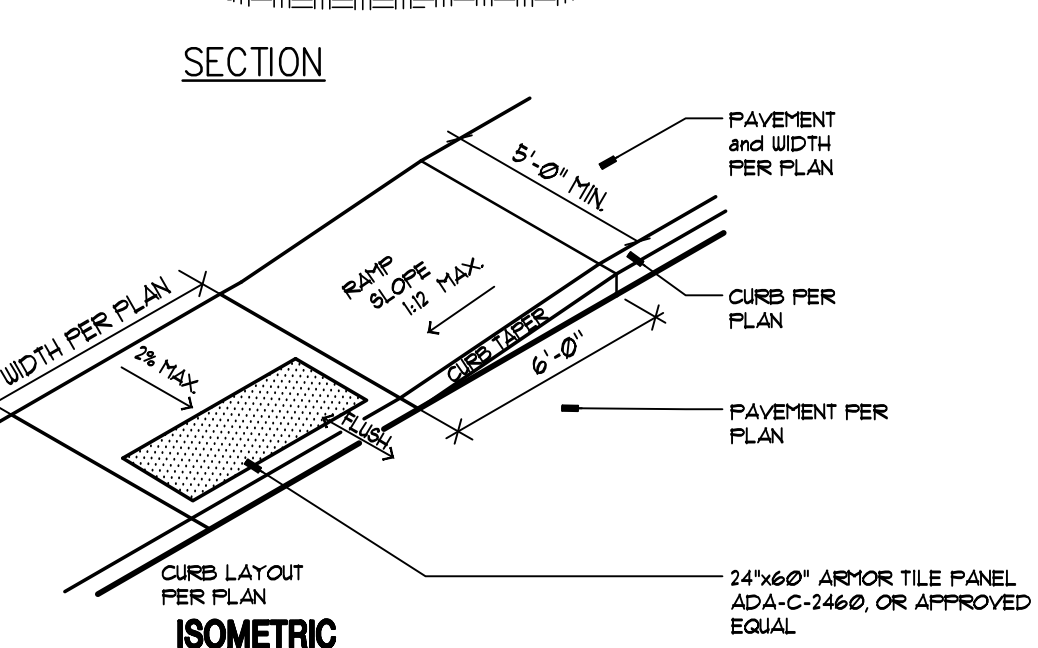
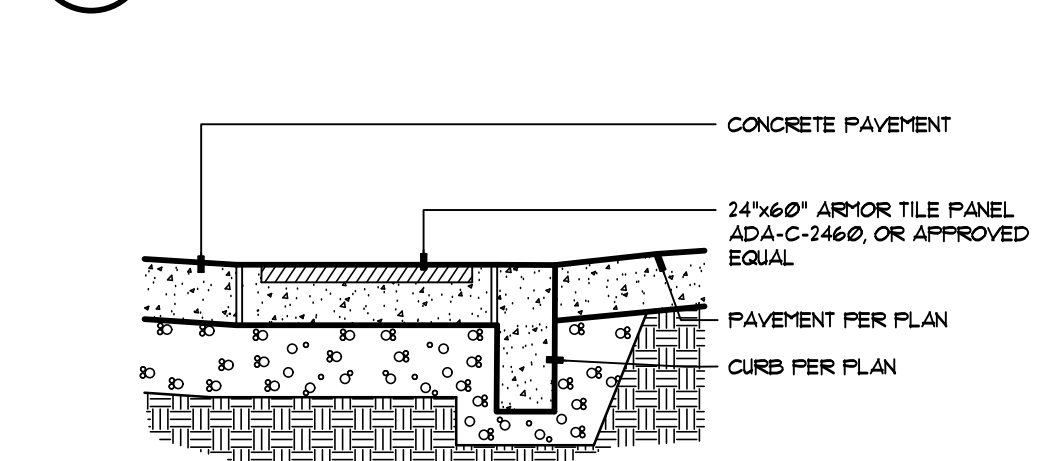
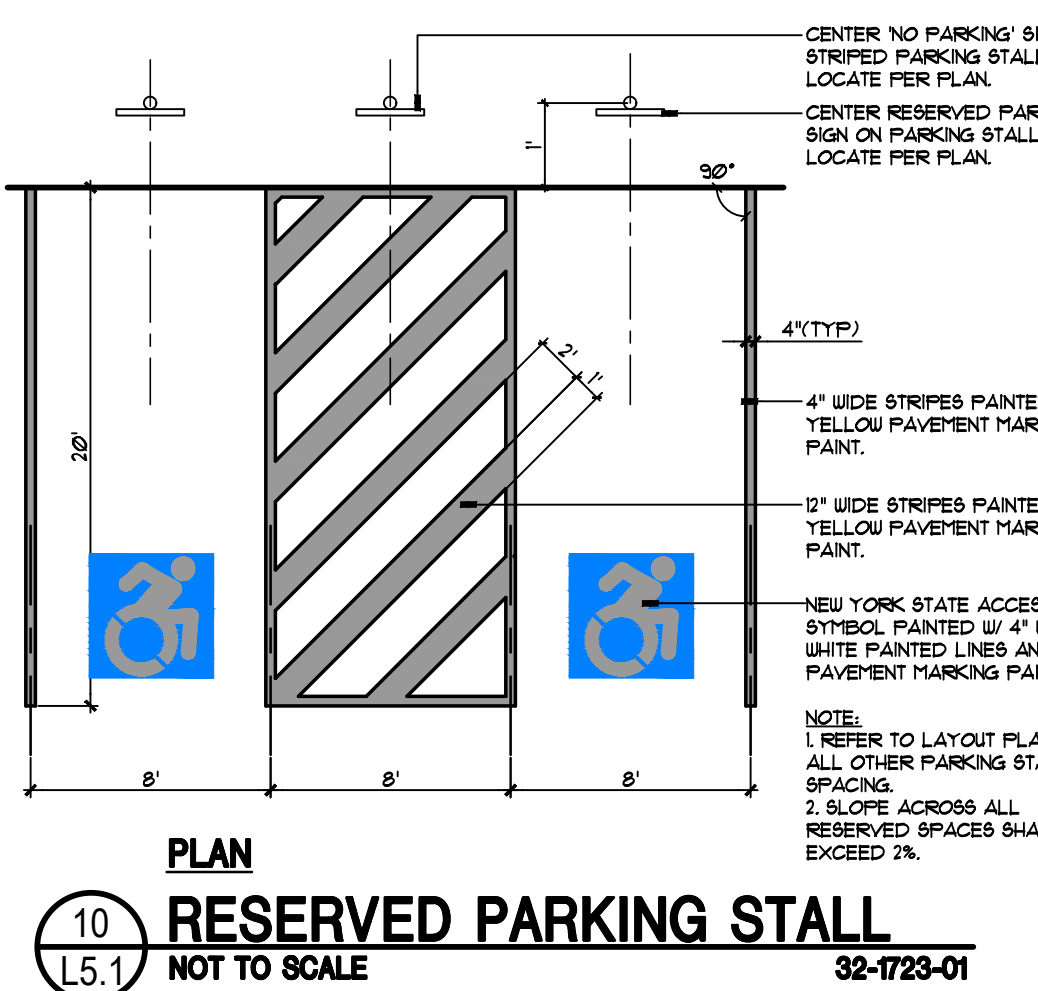
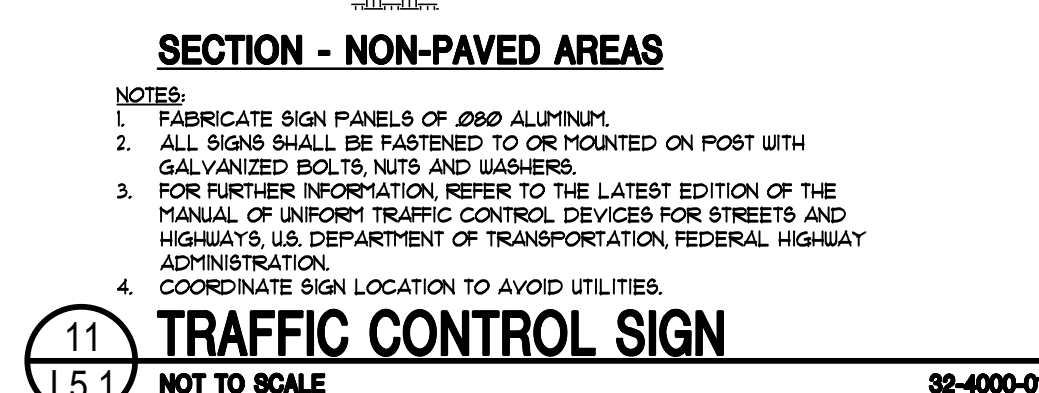
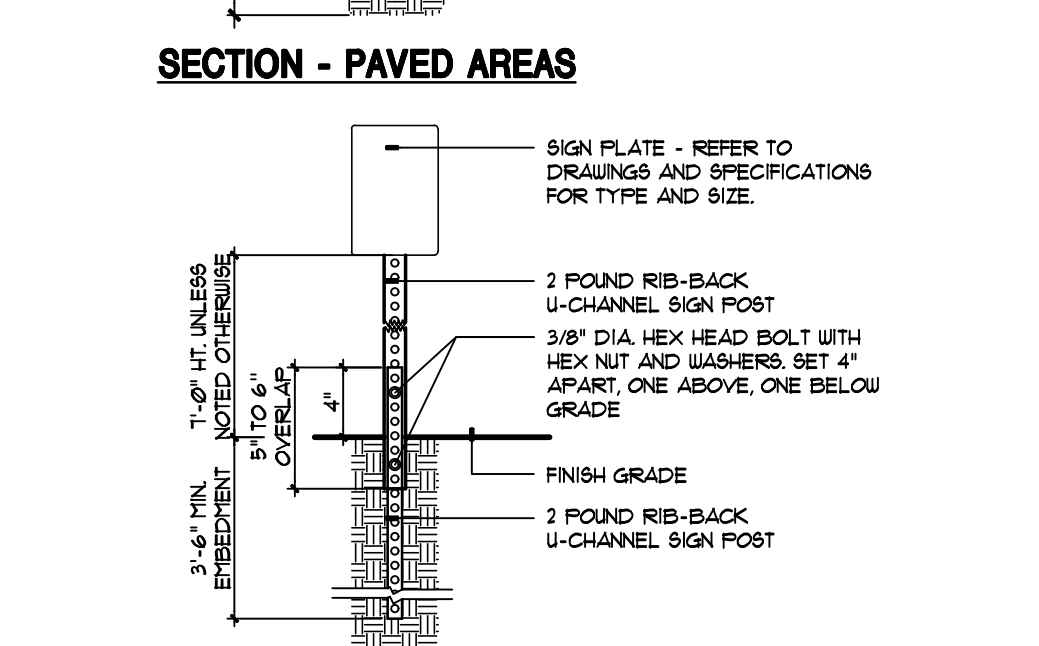
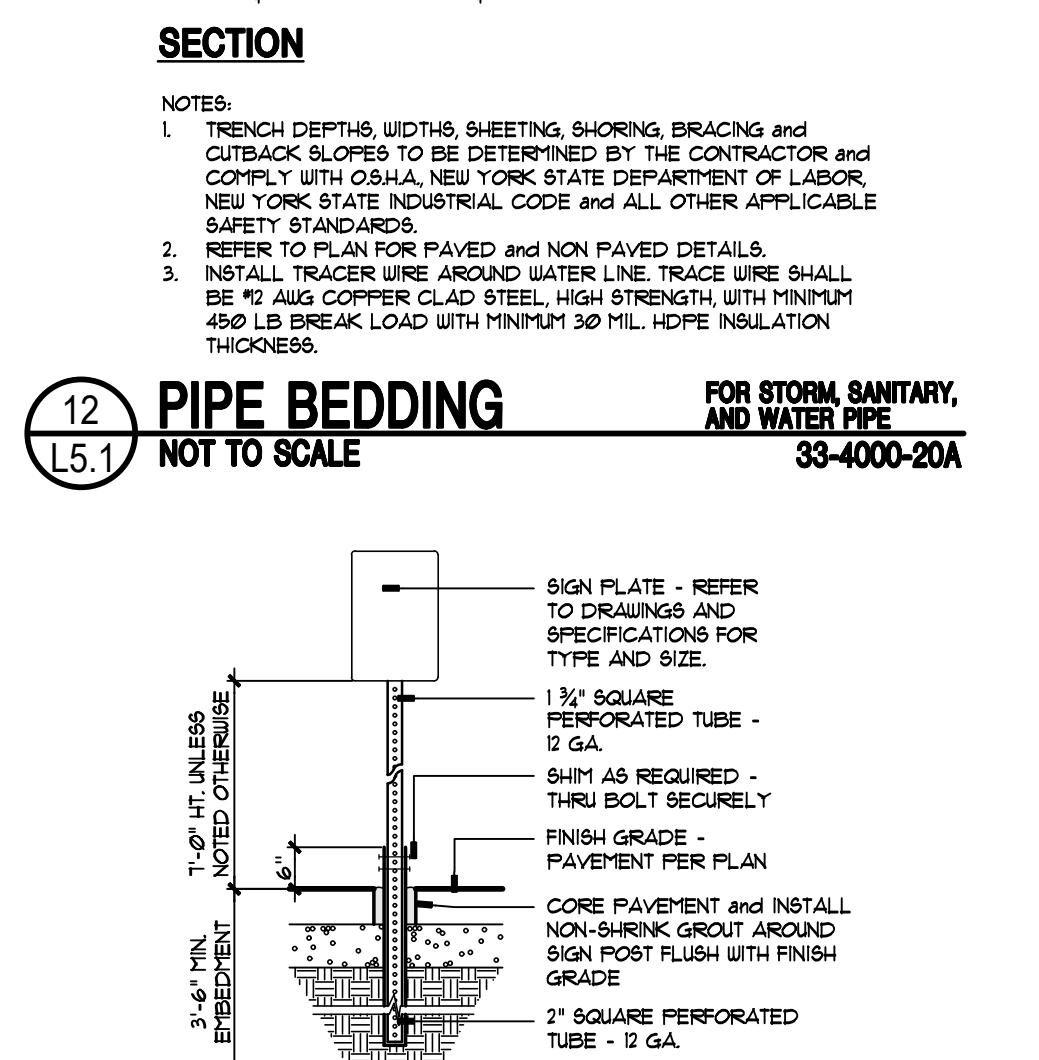
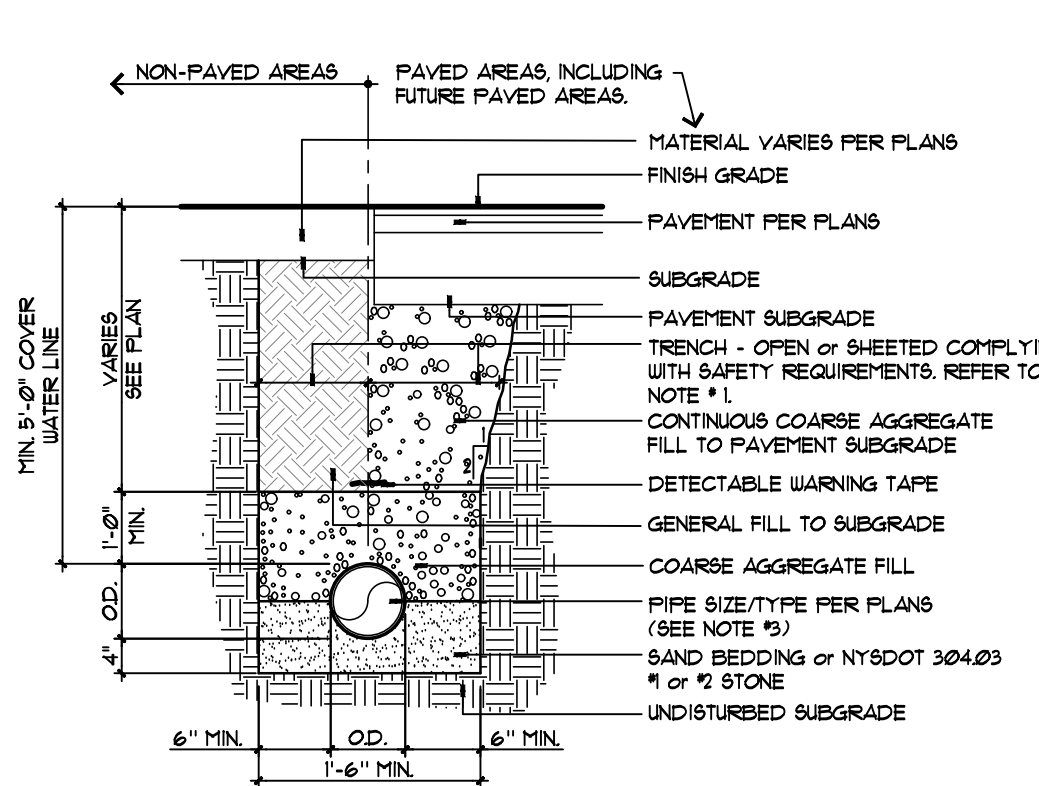
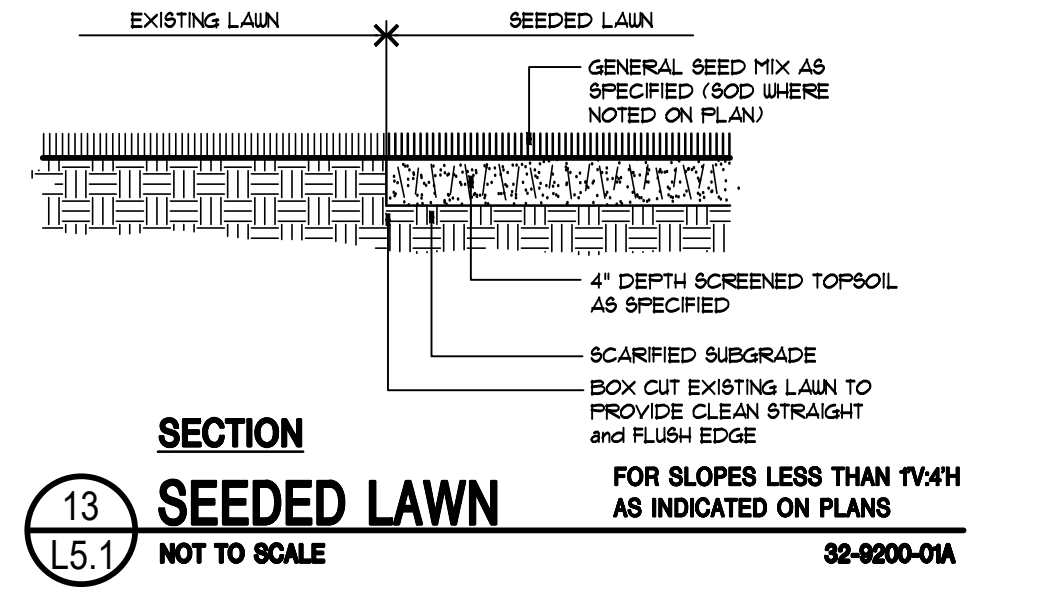
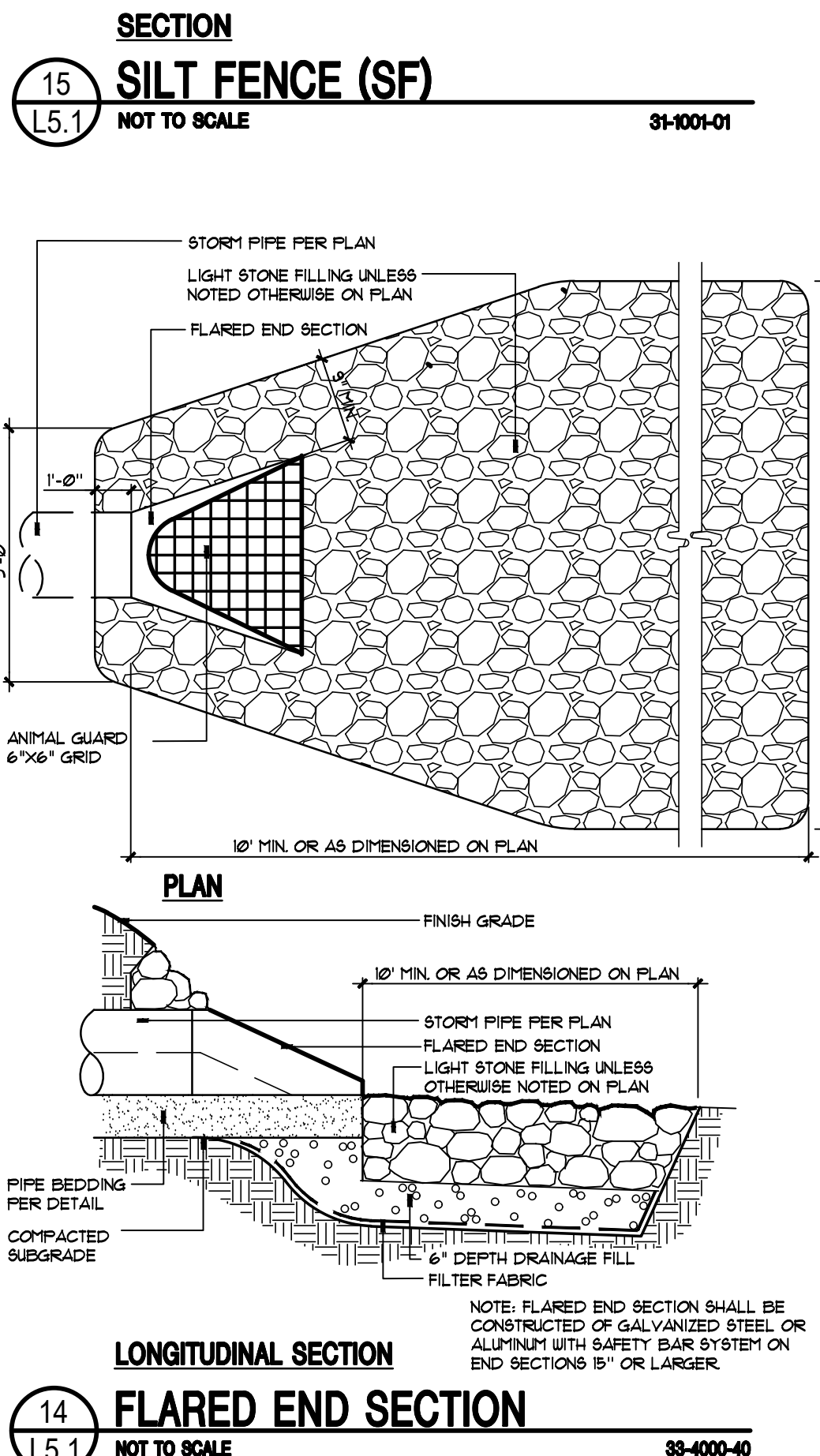
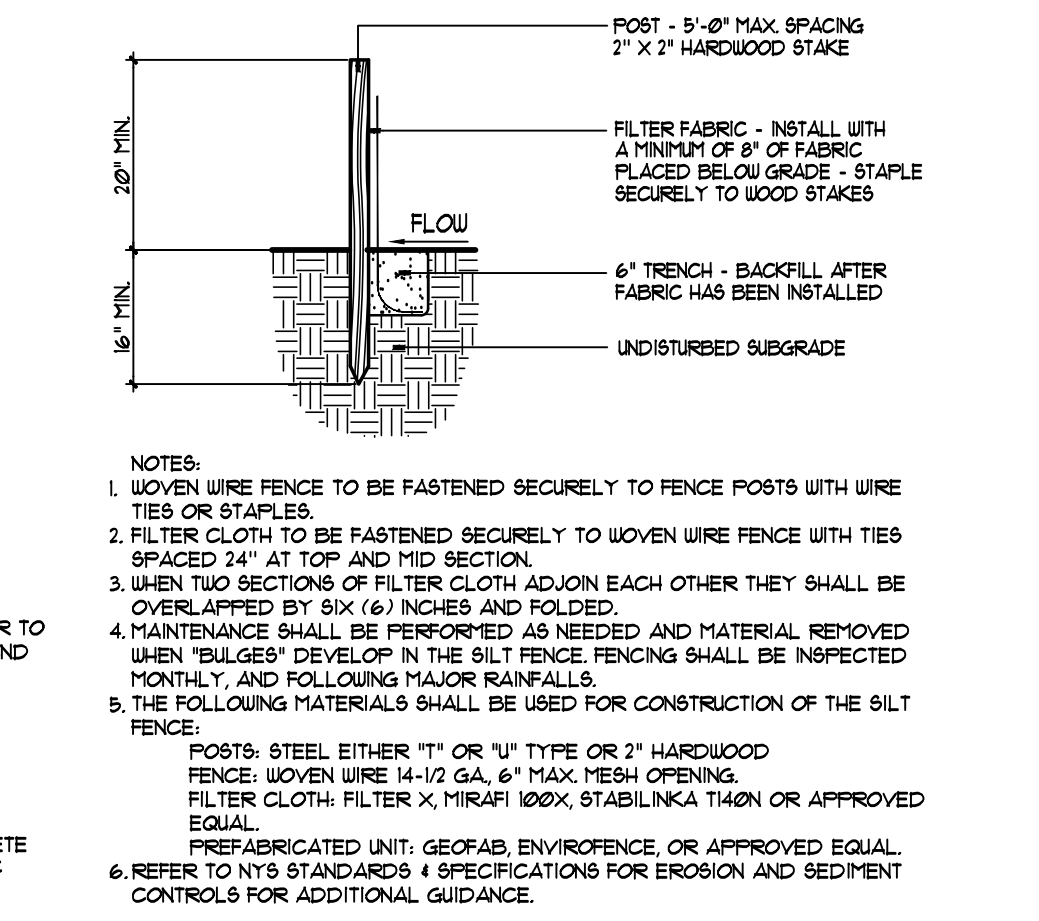
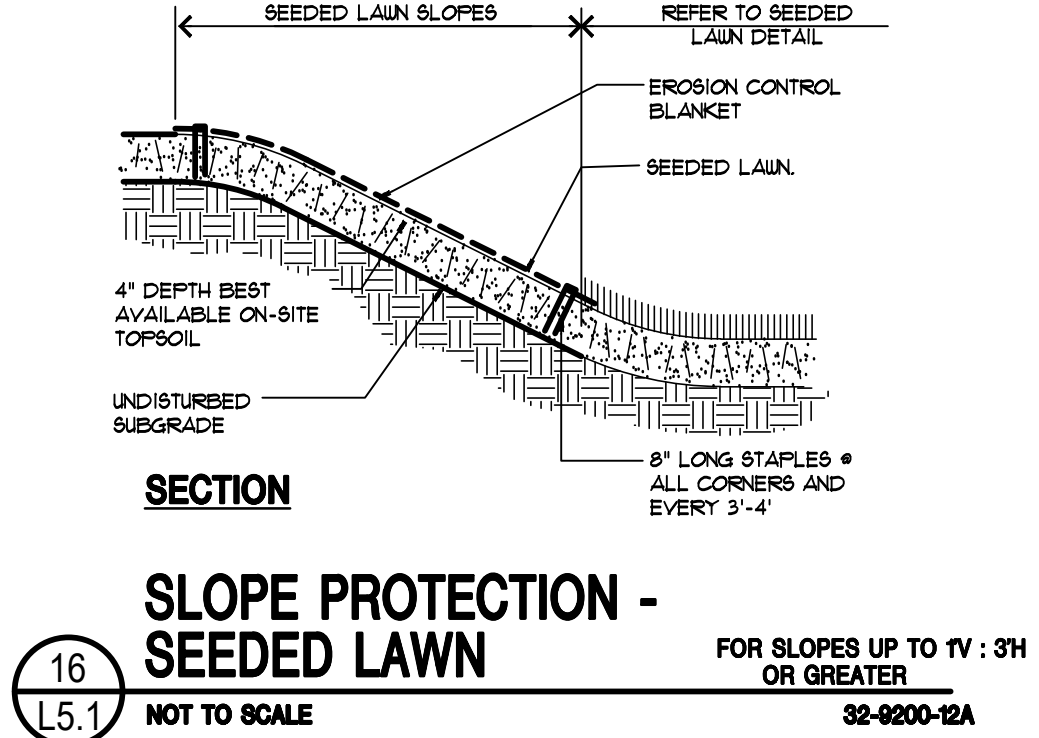


18 CONSTRUCTION ENTRANCE (MUDRACK)
L5.1 NOT TO SCALE



17 RETAINING WALL
L5.1 NOT TO SCALE

NOTE: PROVIDE ENGINEERED AND PE STAMPED DRAWINGS OF RETAINING WALL FOR APPROVAL PRIOR TO CONSTRUCTION.



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05/02/22

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NOTES:
BOUNDARY SURVEY AND TOPOGRAPHIC INFORMATION PROVIDED BY C.T. MALE ASSOCIATES, DATED 02/17/2017.

- SURVEY SUBJECT TO ANY STATE OF FACTS AN ACCURATE AND UP TO DATE ABSTRACT OF TITLE WOULD SHOWN.
- THE LOCATION OF UNDERGROUND IMPROVEMENTS OR ENCR OACHMENTS ARE NOT ALWAYS KNOWN AND OFTEN MUST BE ESTIMATED. IF ANY UNDERGROUND IMPROVEMENTS OR ENCR OACHMENTS EXIST OR ARE NOT SHOWN, THE IMPROVEMENTS OR ENCR OACHMENTS ARE NOT COVERED BY THIS DRAWING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DIG SAFELY NEW YORK AT 1-800-462-7462 BEFORE ANY EXCAVATION OCCURS FOR LOCATION VERIFICATION OF UNDERGROUND UTILITIES.
- THIS DRAWING PROVIDES DESIGN DATA FOR SEPTIC SYSTEM ONLY.
- CONSTRUCTION SHALL NOT OCCUR WHEN THE GROUND IS FROZEN OR THE SOIL MOISTURE CONTENT IS HIGH.
- THE CONTRACTOR MUST NOTIFY THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO ARRANGE FOR INSPECTION OF THE PROPOSED FILL MATERIAL AND ITS PLACEMENT AND STABILIZATION.
- IF FIELD CONDITIONS VARY FROM THE DESIGN, NOTIFY THE ENGINEER IMMEDIATELY.

SANITARY SYSTEM DESIGN CRITERIA:

DATA:-
A. PERCOLATION AND DEEP HOLE TESTING WAS CONDUCTED BY A REPRESENTATIVE OF RZ ENGINEERING ON 03/21/2022.

DHT #1 -
0' - 18" FINE GRAVELLY SILT
18" - 48" GRAVELLY CLAY
48" - 72" CLAY
GROUNDWATER WITNESSED @ 66"
NO MOTTLING WITNESSED
NO BEDROCK WITNESSED

DHT #2 -
0' - 24" FINE GRAVELLY SILT
24" - 36" GRAVELLY CLAY
36" - 66" CLAY
GROUNDWATER WITNESSED @ 36"
NO MOTTLING WITNESSED
NO BEDROCK WITNESSED

PT#1 (24" DEPTH)
STABILIZED PERCOLATION RATE = 60 MIN/INCH

PT#2 (12" DEPTH)
STABILIZED PERCOLATION RATE = 60 MIN/INCH

PT#3 (6" DEPTH)
STABILIZED PERCOLATION RATE = 60 MIN/INCH

PT#4 (6" DEPTH)
STABILIZED PERCOLATION RATE = 60 MIN/INCH

DESIGN:-

- SEWER GENERATION - VETERINARY
VETERINARY LOAD RATE:
LOAD RATE = 600 GPD
DESIGN FLOW = 600 GPD
(PEAK = 5 * AVERAGE = 21 GPM)
- SEPTIC TANK SIZE
DETAIL 4/5-2 OR EQUIVALENT 2500 GALLON TANK MINIMUM
- UTILITY TANK #1 SIZE
DETAIL 3/5-2 OR EQUIVALENT 2,000 GALLON MINIMUM
- UTILITY TANK #2 SIZE
DETAIL 3/5-2 OR EQUIVALENT 1,500 GALLON MINIMUM
- MOUND SIZE - SEE CALCULATIONS BELOW

SANITARY SYSTEM SPECIFICATIONS
THE CONTRACTOR WILL SUPPLY SHOP DRAWINGS PRIOR TO CONSTRUCTION AT THE OWNERS REQUEST.

PIPING

- ALL SOLID PIPING FROM THE HOUSE TO THE PUMP STATION SHALL BE SCHEDULE 40 PVC OR CAST IRON, INSTALLED AT A MINIMUM SLOPE OF 1/4" PER FT.
- ALL PIPE, SOLID OR PERFORATED, FROM THE DISTRIBUTION BOX TO END OF LEACH LINE SHALL BE 4" SDR-38 SANITARY SEWER LINE WITH ENDS CAPPED.
- ALL SOLID PIPING FROM THE PUMP STATION TO THE DISTRIBUTION BOX SHALL BE 15" OR 21" PRESSURE PIPE SHALL BE SCHEDULE 40 PVC WITH RUBBER RING GASKETS OR JOINED WITH PVC SOLVENT, AND HYDROSTATICALLY PRESSURE TESTED TO 60 PSI, WITH A MINIMUM OF 4' OF COVER.

SAND FILTER DESIGN

- ALLOWABLE APPLICATION RATE = 1.15 GPD/SF
1.1. DESIGN FLOW = 600 GPD
- SAND FILTER SIZE = 600 GPD / 1.15 GPD/SF =
2.1. USE SF
2.2. DIMENSIONS ARE 18' WIDE X 29' LONG
- PER FILTER SIZE ESTABLISHED IN SECTION 2 ABOVE. 6 DISTRIBUTORS AND 3 COLLECTORS ARE PROPOSED.

CONSTRUCTION NOTES:

- HEAVY CONSTRUCTION EQUIPMENT MUST NOT BE ALLOWED WITHIN THE FILL AREA OF THE SYSTEM OR IMMEDIATELY DOWNSLOPE OF THE SYSTEM. DRIVEWAY SHALL BE INSTALLED FIRST & USED FOR ACCESS DURING CONSTRUCTION.
- PLACEMENT OF FILL MATERIAL OR CONSTRUCTION OF ABSORPTION FACILITIES IN FILL SHOULD NOT OCCUR WHEN THE SOIL MOISTURE CONTENT IS HIGH. IF A FRAGMENT OF SOIL FROM APPROXIMATELY NINE INCHES BELOW THE SURFACE (I.E., BORROW PIT, FILL PLACEMENT SITE, OR STABILIZED FILL) CAN EASILY BE ROLLED INTO A RIBBON INSTEAD OF CRUMBLING, THE SOIL MOISTURE CONTENT IS TOO HIGH FOR PLACEMENT/CONSTRUCTION. THE ENGINEER SHALL BE PRESENT AT THE START OF CONSTRUCTION TO VERIFY FAVORABLE SOIL CONDITIONS.
- IN AREAS WHICH ARE SUITABLE, ALL TREES AND STUMPS SHALL BE CUT AT GRADE AND REMOVED. OTHER VEGETATION (I.E., BRUSH, VINES, WEEDS, GRASS) SHALL BE CUT AS CLOSE TO GRADE AS POSSIBLE AND REMOVED. ALL LEAVES, LIMBS AND BOULDERS ABOVE GRADE SHALL BE REMOVED. ROOT STRUCTURE BELOW GRADE SHOULD NOT BE REMOVED. ROTOTILLING OR SOIL SCARIFICATION WITH CONSTRUCTION EQUIPMENT IS NOT RECOMMENDED. THE PROPOSED MAIN FILL AND TAPER AREAS SHALL BE PLOWED TO A DEPTH OF SEVEN OR EIGHT INCHES WITH A DOUBLE BOTTOMED BLADE/FURROW PLOW AND THE FURROW TURNED UPSLOPE.
- THE FILL MUST BE STABILIZED PRIOR TO CONDUCTING FINAL PERCOLATION TESTS, PLACEMENT OF THE MOUND FILL AND CONSTRUCTION OF THE MOUND SYSTEM. SOILS SHOULD BE PERMITTED TO SETTLE NATURALLY AFTER PLACEMENT THROUGH ONE FREEZE THAW WEATHER CYCLE OR MAY BE MECHANICALLY COMPACTED. MECHANICAL COMPACTION SHALL BE ACHIEVED VIA TRACK TYPE MACHINES (I.E., BULLDOZER OR FRONT END LOADER WITH DOWNWARD BLADE/BUCKET PRESSURE) OR STEEL WHEELED ROLLER. MECHANICAL COMPACTION SHALL BE ACCOMPLISHED IN SHALLOW LIFTS (APPROXIMATELY 6"-8").
- THE MOUND FILL SHOULD THEN BE PLACED IN THE AREAS DESIGNATED ON SHEET S-1 IMMEDIATELY AFTER THE SITE IS PREPARED TO AVOID UNDESIRABLE CHANGES TO THE SITE, (I.E., TRAFFIC, COMPACTION, EROSION). MOUND FILL MATERIALS CAN THEN BE PLACED ON THE SITE WITH A FRONT END LOADER OR PUSHED ON FROM THE SIDE (I.E., PREFERABLY THE UPSLOPE SIDE) USING A TRACK TYPE MACHINE WITH AT LEAST SIX INCHES OF FILL BENEATH THE TRACKS. AT NO TIME SHOULD RUTS BE MADE IN THE PLOWED AREA.
- THE MOUND FILL MUST BE STABILIZED PRIOR TO CONDUCTING FINAL PERCOLATION TESTS AND CONSTRUCTION OF THE MOUND SYSTEM. SOILS SHOULD BE PERMITTED TO SETTLE NATURALLY AFTER PLACEMENT THROUGH ONE FREEZE THAW WEATHER CYCLE OR MAY BE MECHANICALLY COMPACTED. MECHANICAL COMPACTION SHALL BE ACHIEVED VIA TRACK TYPE MACHINES (I.E., BULLDOZER OR FRONT END LOADER WITH DOWNWARD BLADE/BUCKET PRESSURE) OR STEEL WHEELED ROLLER. MECHANICAL COMPACTION SHALL BE ACCOMPLISHED IN SHALLOW LIFTS (APPROXIMATELY 6"-8"). **ONCE IN PLACE, THE MOUND FILL MUST BE TESTED FOR PERCOLATION AND WITNESSED BY THE ENGINEER PRIOR TO PLACEMENT OF AGGREGATE BED, DISTRIBUTION LATERALS AND CLAY LOAM CAP.**

- THE FILL MATERIALS SHALL COVER THE ENTIRE FILL AREAS AND BE PLACED TO DEPTHS AS SHOWN ON DRAWINGS S-1 AND S-2. THE REQUIRED ABSORPTION BED SHALL BE CONSTRUCTED IN THE FILL. CONSTRUCTION OF THE ABSORPTION BED IN THE FILL MATERIAL SHALL BE IN ACCORDANCE WITH NYSDOH STANDARDS INCLUDING DISTRIBUTION LATERALS BEING INSTALLED PARALLEL TO CONTOUR LINES FOR THE NATIVE SOIL PRIOR TO INSTALLING FILL.
- THE BOTTOM OF THE TRENCH AREA SHALL BE LEVEL. THE BOTTOM AND SIDEWALLS OF THE TRENCH AREA SHALL BE RAKED PRIOR TO INSTALLING AGGREGATE.
- DISTRIBUTION LATERALS SHALL BE INSTALLED ON AT LEAST SIX INCHES OF AGGREGATE AND BE COVERED BY AT LEAST TWO INCHES OF AGGREGATE. THE AGGREGATE IN THE TRENCH AREA SHALL BE COMPLETELY COVERED WITH A PERMEABLE GEOTEXTILE TO PREVENT INFILTRATION OF FINE SOIL INTO THE AGGREGATE.
- PERCOLATION TESTS FOR THE FILL MATERIAL SHALL BE CONDUCTED AT THE BORROW PIT IN AREAS REPRESENTATIVE OF THE SOIL TO BE OBTAINED. ONLY SOILS WITH A PERCOLATION RATE BETWEEN 5 AND 30 MINUTES PER INCH SHALL BE USED FOR THE MOUND FILL MATERIAL AREAS. SANDS WITH GREATER THAN FIVE PERCENT BY WEIGHT FINER THAN 0.075 mm (I.E., NUMBER 200 SIEVE) MUST BE AVOIDED. AT LEAST 25 PERCENT OF THE MATERIAL WEIGHT SHALL BE IN THE RANGE OF 0.50 TO 2.0 mm. LESS THAN 15 PERCENT OF THE MATERIAL BY WEIGHT SHALL BE RETAINED ON A HALF-INCH SIEVE. A SIEVE ANALYSIS IS NECESSARY TO VERIFY COMPLIANCE WITH THE SOIL SPECIFICATIONS. ONLY SOILS WITH A PERCOLATION RATE OF 5-30 MINUTES PER INCH MAY BE UTILIZED FOR SUPPLEMENTAL FILL. **PERCOLATION TESTING RESULTS OF FILLS TO BE UTILIZED AS MOUND FILL TAKEN AT THE BORROW PIT AND AFTER PLACEMENT SHALL BE CERTIFIED TO THE HEALTH DEPARTMENT. SIEVE ANALYSES OF ALL FILL MATERIALS MUST BE SUPPLIED BY CONTRACTOR TO ENGINEER PRIOR TO CONSTRUCTION OF MOUND.**
- CONSTRUCTION SHALL NOT OCCUR WHEN THE GROUND IS FROZEN OR THE SOIL MOISTURE CONTENT IS HIGH.

CERTIFICATION SEQUENCING:

THE ENGINEER MUST BE NOTIFIED AND MUST WITNESS MULTIPLE STEPS IN THE CONSTRUCTION PROCESS.

- FILL PRODUCTS: FOR ALL IMPORTED FILL PRODUCTS (MOUND FILL, SUPPLEMENTAL FILL, RAISED FILL, INTERMITTENT SAND FILTER FILL, ETC.), A SIEVE ANALYSIS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO INSTALLATION. FAILURE TO DO SO WILL DELAY THE INSTALLATION FILL CERTIFICATIONS.
- SITE PREPARATION: THE ENGINEER SHALL BE NOTIFIED BEFORE PLACEMENT OF ANY FILL AND SHALL WITNESS THE SITE EXISTING CONDITIONS IMMEDIATELY PRIOR TO FILL PLACEMENT. UPON SATISFACTORY CONDITIONS BEING WITNESSED, THE FILL SHALL THEN BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION NOTES.
- MOUND FILL INSTALLATION CERTIFICATION: A REPRESENTATIVE OF THE ENGINEER SHALL BE ON SITE TO CERTIFY THE MOUND FILL BEFORE THE AGGREGATE LAYER IS INSTALLED. THIS INCLUDES BUT IS NOT LIMITED TO PERCOLATION TESTING, DEPTH OF FILL MEASUREMENT, AND LOCATION MEASUREMENT. SHOULD ANY OF THESE REQUIREMENTS BE DEFICIENT, THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AND REQUEST THE ENGINEER AND ANY OTHER REQUIRED PERSONNEL RETURN TO THE SITE AT AN APPROPRIATE TIME.

MOUND SYSTEM DESIGN:

- DESIGN CRITERIA
A. VETERINARY LOAD RATE = 600 GPD
B. DESIGN FLOW Q = 600 GPD
C. PEAK FLOW = 5 * DESIGN FLOW = 21 GPM
- SUPPLEMENTAL FILL CRITERIA
A. REQUIRED PERCOLATION RATE = 5 - 30 MPI
B. APPROXIMATE APPLICATION RATE = 12 GPD/SF
- MOUND CRITERIA
A. ABSORPTION AREA
A1. DESIGN FLOW / APPLICATION RATE FOR FILL
A2. 600 GPD / 12 GPD/SF = 500 SF USE 510 SF
B. ABSORPTION AREA WIDTH (A) = 15 FT
C. TOTAL TRENCH LENGTH (B)
C1. TRENCH LENGTH = TRENCH AREA / 2 FT
C2. TRENCH LENGTH = 510 SF / 2 FT = 255 FT USE 256 FT
D. ABSORPTION AREA LENGTH (B)
D1. (B) = TRENCH LENGTH / # TRENCH LINES
D2. (B) = 256 FT / 4 LINES = 64 FT
E. DEPTHS (D), (F), (G), (H) & SLOPE
E1. UPSLOPE DEPTH (D) = 2 FT
E2. AGGREGATE DEPTH IN BED (F) = 0.15 FT
E3. COVER SOIL + TOPSOIL EDGE DEPTH (G) = 1 FT
E4. COVER SOIL + TOPSOIL CENTER DEPTH (H) = 15 FT
E5. SLOPE = 0.0375 FT/FT
F. DOWNSLOPE DEPTH (E)
F1. (E) = D + (SLOPE * A)
F2. (E) = 2 + (0.0375 * 15) = 2.5625 FT USE 2.60 FT
G. UPSLOPE SETBACK (J)
G1. (J) = (1 - SLOPE) * ((D * F * G) * 3)
G2. (J) = (1 - 0.0375) * ((2 * 0.15 * 1) * 3) = 10.83 FT
G3. USE 11 FT
H. SIDE SLOPE SETBACK (K)
H1. (K) = (((D * E) / 2) + (F * H)) * 3
H2. (K) = (((2 * 2.60) / 2) + (0.15 * 15)) * 3 = 13.65 FT
H3. USE 14 FT

- BASAL AREA REQUIRED
- BAR = DESIGN FLOW / EXISTING APPLICATION RATE
- BAR = 600 GPD / 0.2 GPD/SF = 3,000 SF

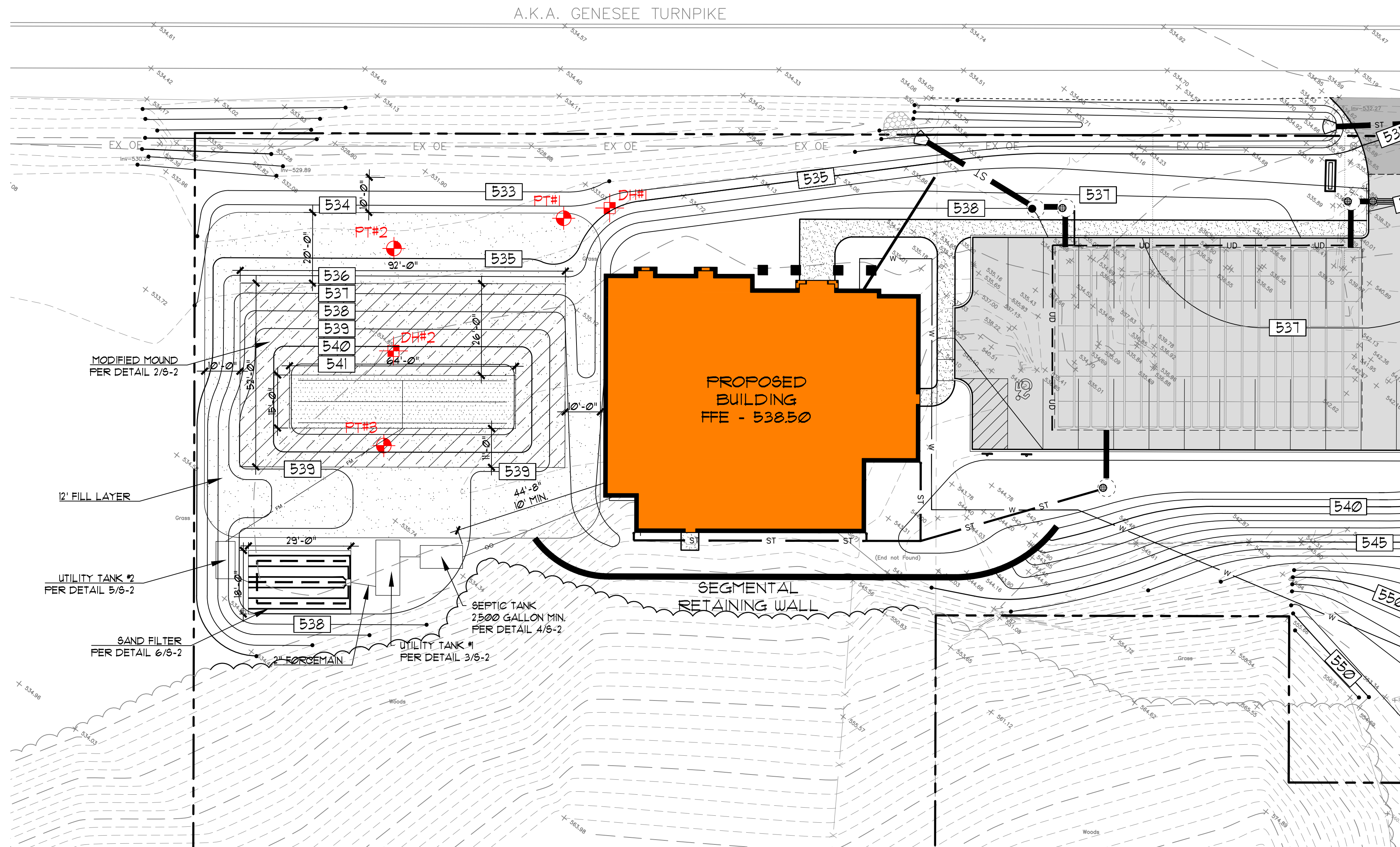
- MOUND LENGTH (L)
J1. MOUND LENGTH (L) = (B) * 2(K)
J2. (L) = 64 * 2(14)
J3. (L) = 92 FT

- DOWNSLOPE SETBACK (C)
K1. (C) = (2 * (BAR - (A * B))) / (B + L)
K2. (C) = (2 * (3,000 - (15 * 64))) / (64 + 92)
K3. (C) = 26.15 FT
K4. (C) = 3 * (E + F + G)
K5. (C) = 3 * (2.6 + 0.15 + 1) = 8.91 FT
K6. USE LARGER (C), USE 26 FT

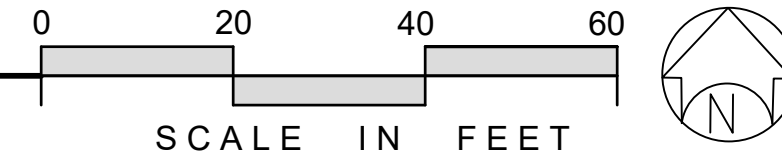
- MOUND WIDTH (W)
L1. (W) = (J) + (A) + (C)
L2. (W) = (11) + (15) + (26)
L3. (W) = 52 FT

MOUND PRESSURE SYSTEM DESIGN:

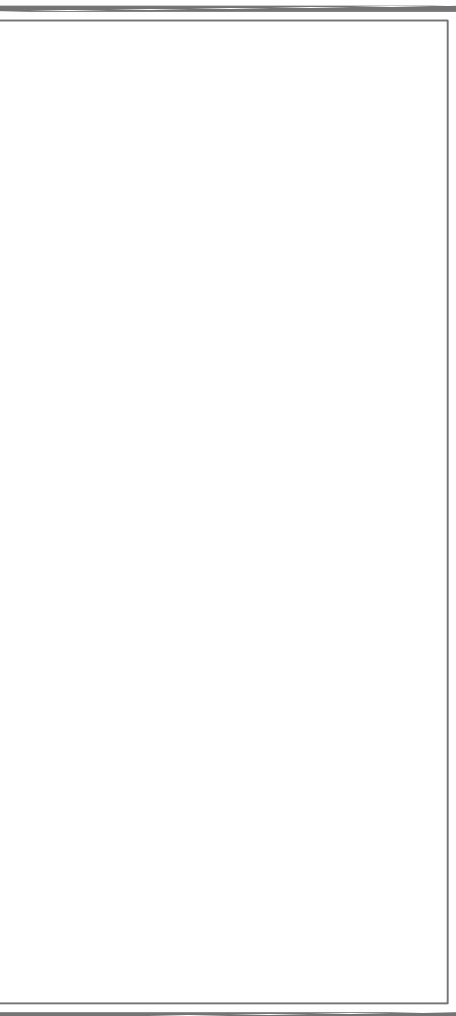
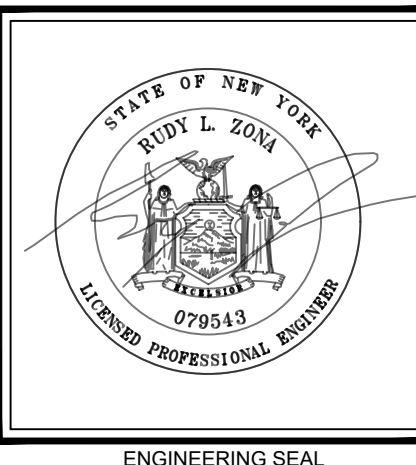
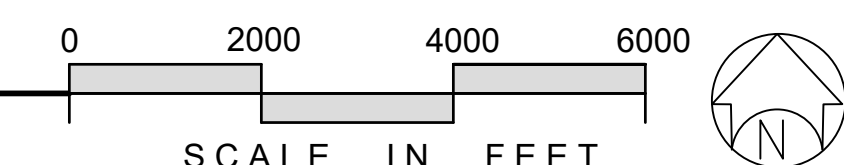
- NUM. OF LATERALS = 6
LATERAL LENGTH = 295 FT
HOLE DIAMETER = 1/2 IN.
HOLE SPACING FOR 125 IN. LINE = 4 FT
- LATERAL DISCHARGE RATE
M1. 1/2 IN. HOLES WITH 2.10 FT HEAD = 111 GPM/HOLE
M2. NUM. HOLES/LATERAL = 295 FT/4 FT = 7.4 USE 8
M3. DISCHARGE RATE = 6 * 111 = 666 GPM/LATERAL
M4. MIN. DISCHARGE RATE = 6 LATERALS * 666 GPM/LATERAL = 3996 GPM
- MANIFOLD SIZE
N1. LENGTH = 135 FT
N2. USE 3 IN. CENTRAL MANIFOLD
N3. ONE MANIFOLD WITH 3 LATERALS ON EACH SIDE SPACED 6 FT ON CENTER OF DISTRIBUTOR PIPE
- O. DOSING
O1. VOLUME = 600 GPD / 4 DOSES/DAY = 150 GAL/DOSE
P. PUMP STATION TO MOUND SYSTEM
P1. PUMP SPECIFICATIONS ON DETAIL 5/5-2



SITE SEPTIC PLAN
SCALE 120



LOCATION MAP (USGS)
SCALE 12000



FAYETTEVILLE VET. SEPTIC
8122 E. GENESEE STREET
TOWN OF FAYETTEVILLE
ONONDAGA COUNTY, NY

REVISIONS	

Drawn By: L.C.F.
Checked By: R.L.Z.
Proj. No.: 22012
Date: 05/05/2022
Scale: AS NOTED

Title:

SEPTIC
PLAN

S-1



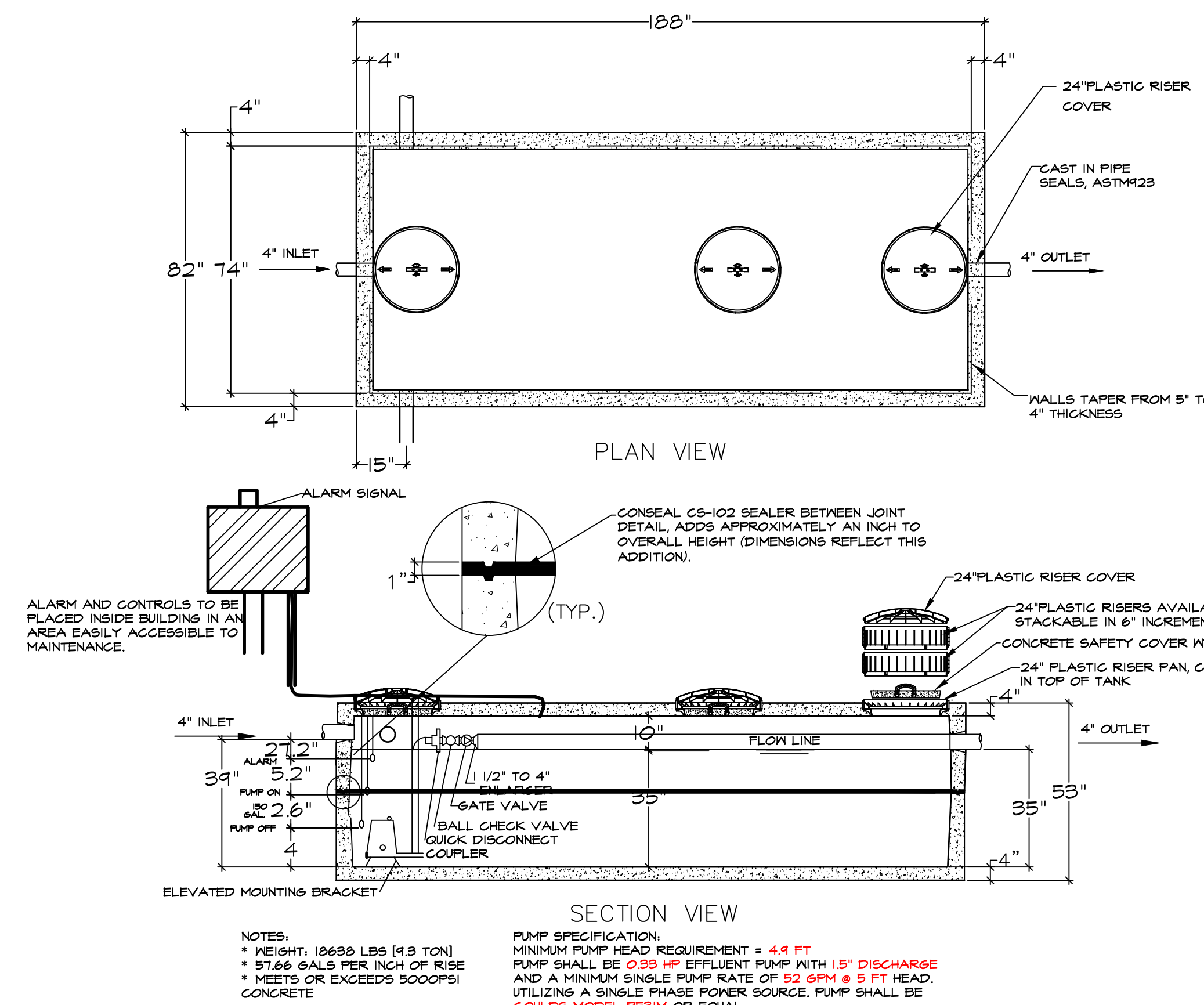
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8122 E. GENESEE STREET
TOWN OF FAYETTEVILLE
ONONDAGA COUNTY, NY

REVISIONS	

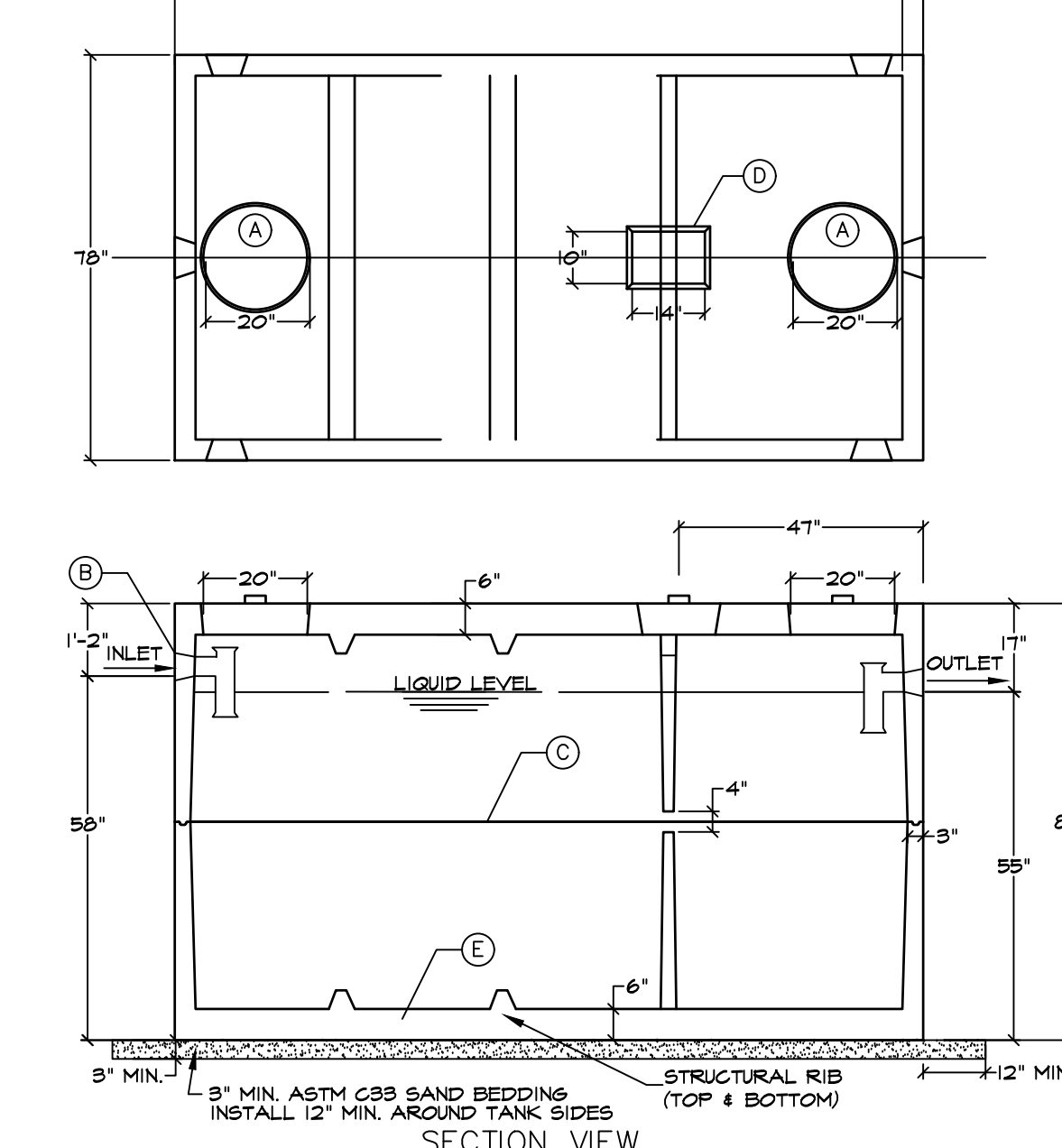
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Checked By: R.L.Z.
Proj. No.: 22012
Date: 05/05/2022
Scale: AS NOTED

DETAILS

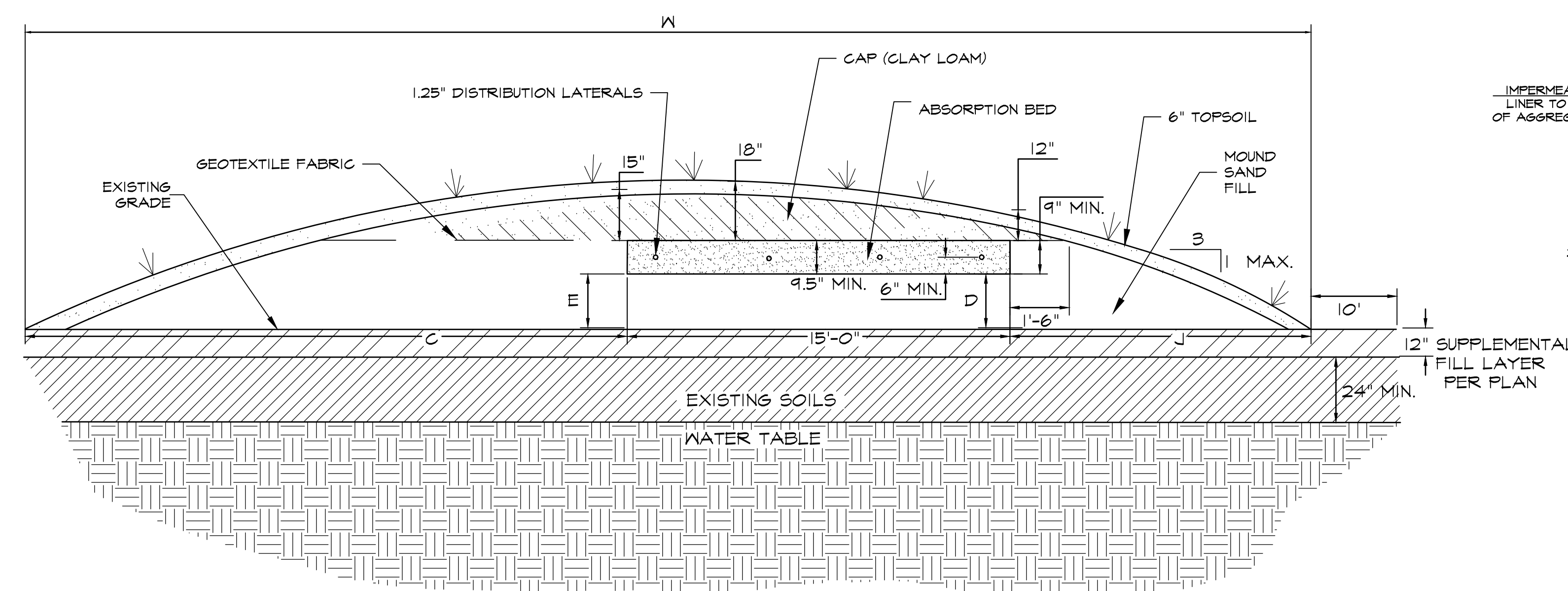
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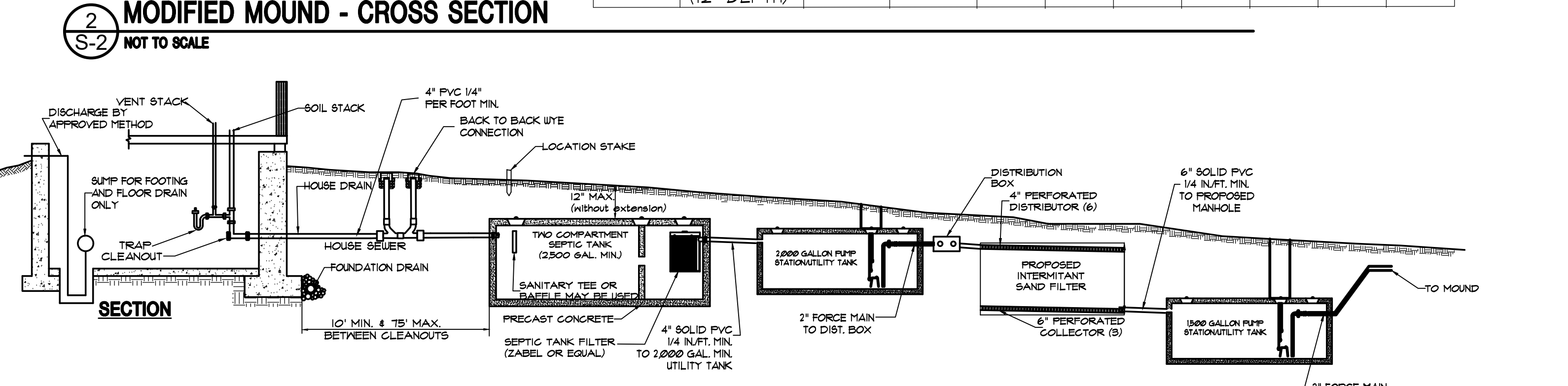
3 2000 GALLON UTILITY TANK #1 (SUNNYCREST)*
NOT TO SCALE *OR APPROVED EQUAL



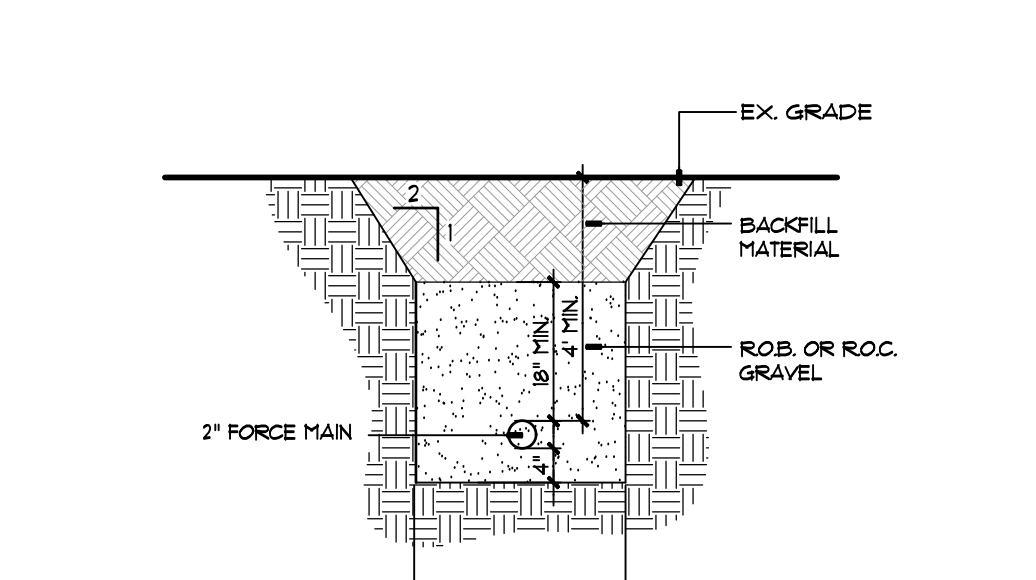
4 2500 GALLON SEPTIC TANK (BINGHAMTON)*
NOT TO SCALE *OR APPROVED EQUAL



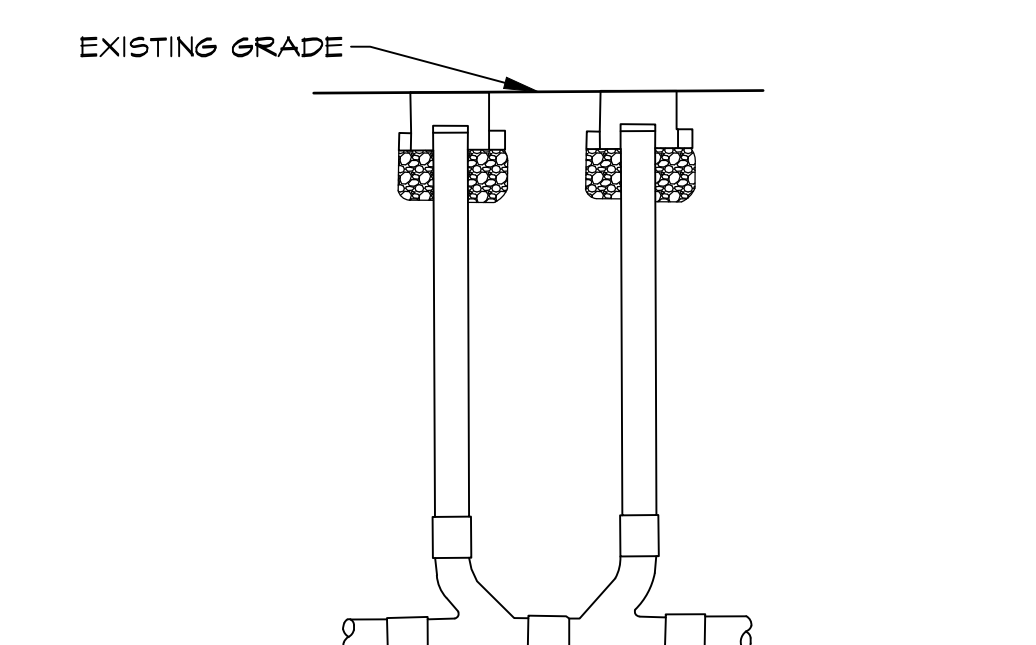
LOT NO.	PERC RATE	(D) UPSLOPE DEPTH	(E) DOWNSLOPE DEPTH	(J) UPSLOPE SETBACK	(K) SIDE SETBACK	(L) MOUND LENGTH	(C) DOWNSLOPE SETBACK	(W) MOUND WIDTH	(SW) FILL WIDTH	(SL) FILL LENGTH
1	MOUND FILL 5-30 MIN/IN (12" DEPTH)	2'	2.6'	11'	14'	92'	26'	52'	92'	112'



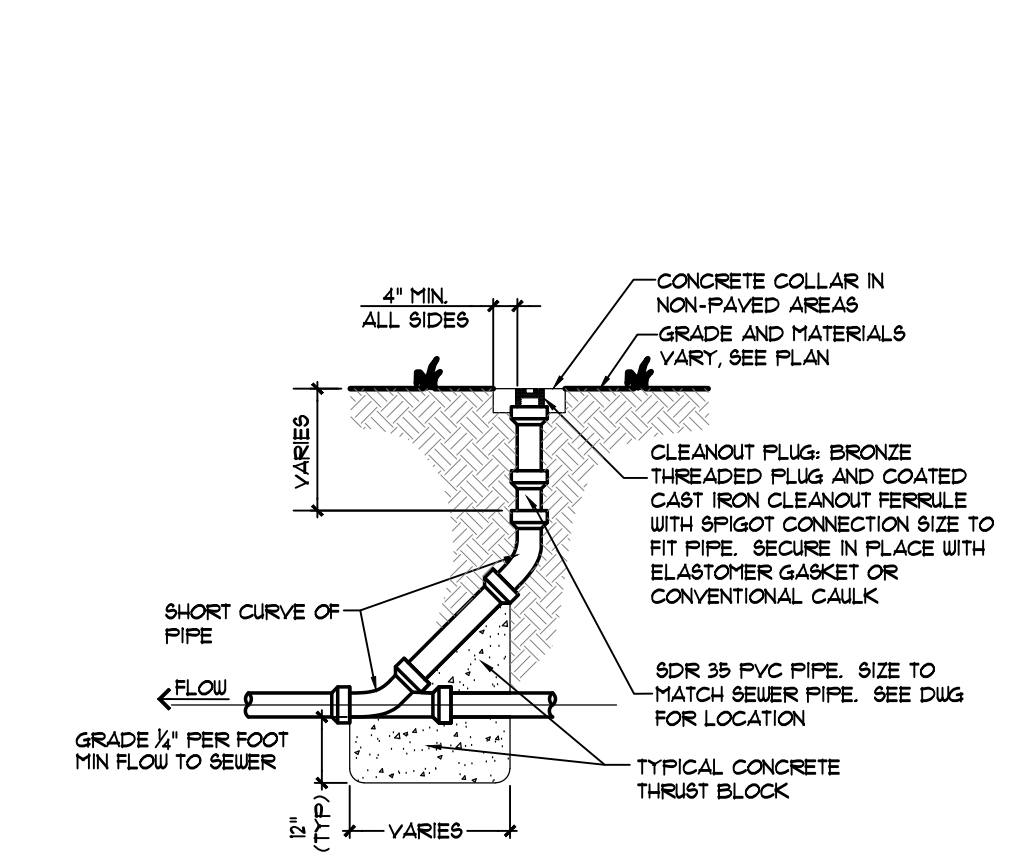
1 HOUSE SEWER TO LEACH FIELD
NOT TO SCALE



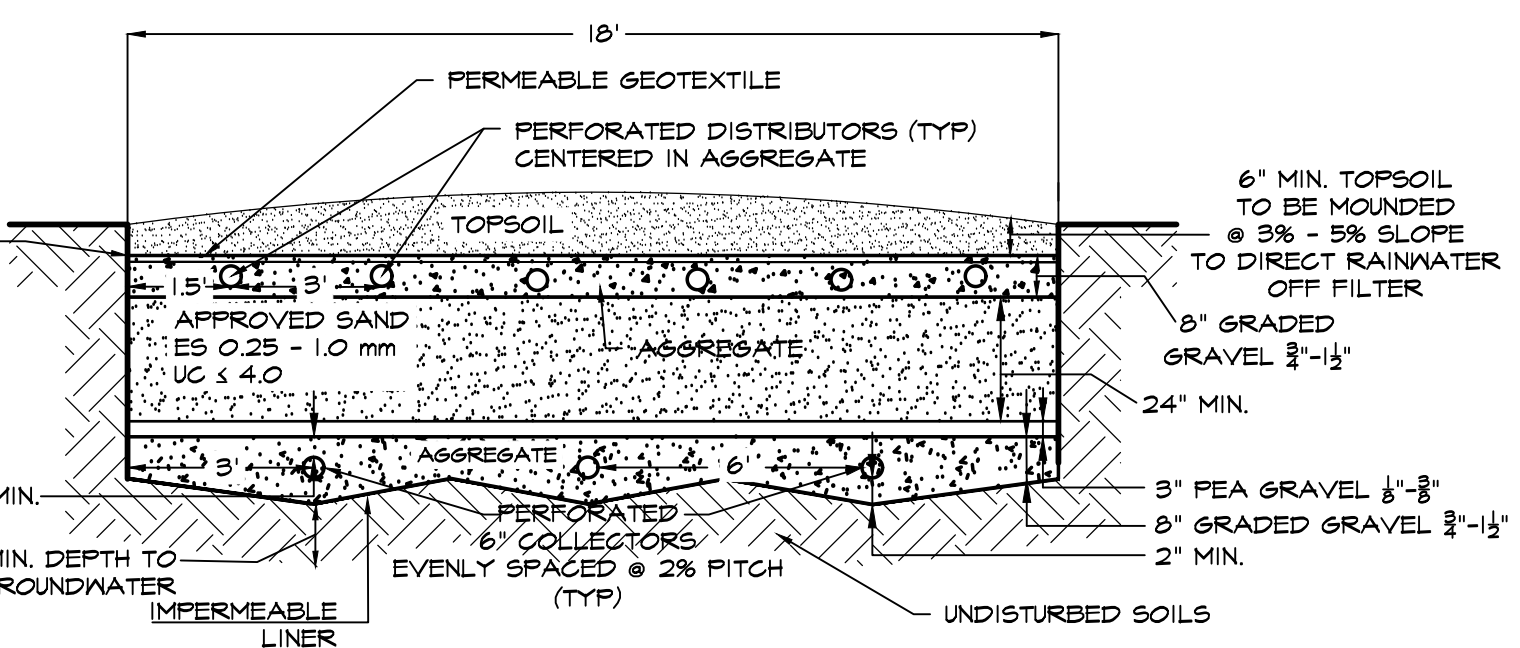
11 FORCE MAIN TRENCH
NOT TO SCALE



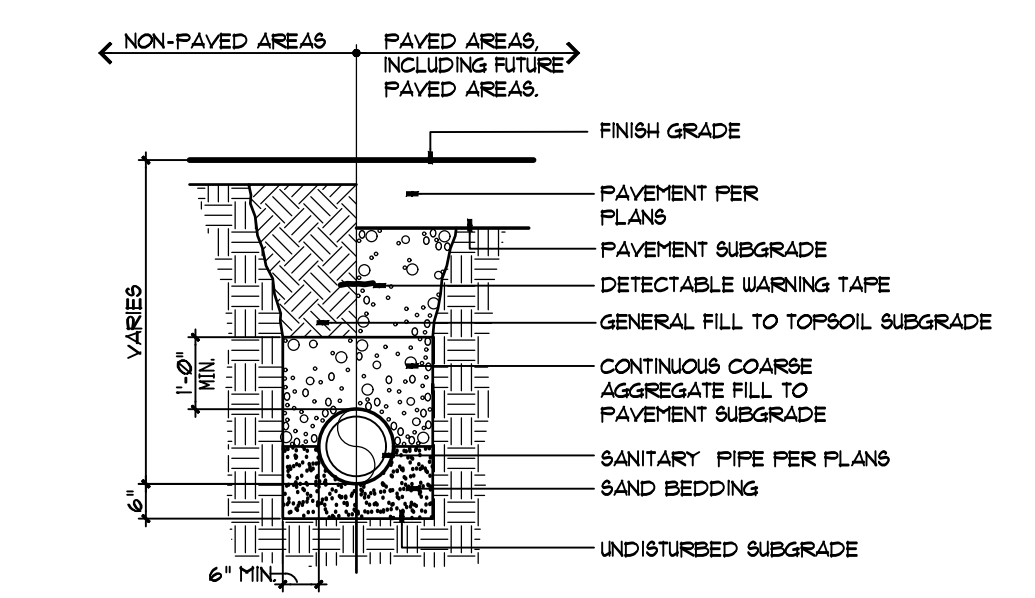
7 BACK TO BACK WYE CLEANOUT
NOT TO SCALE



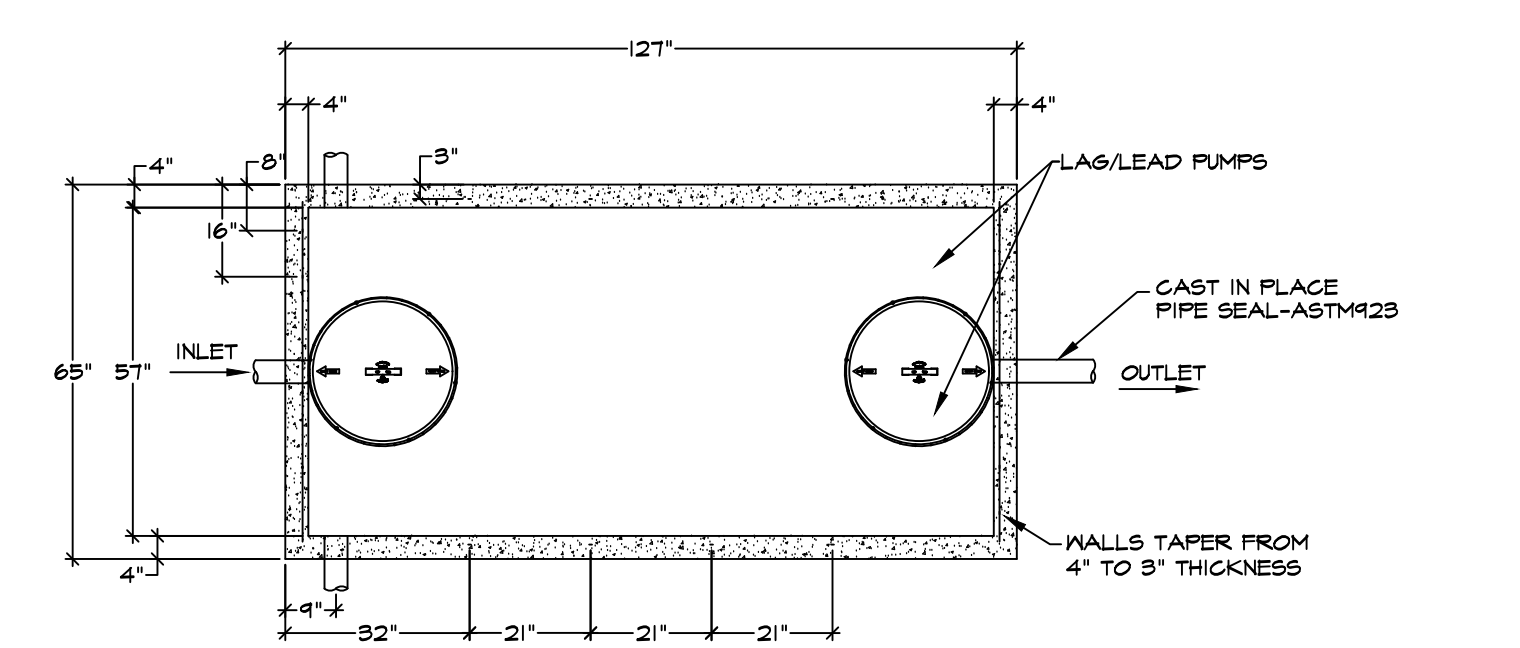
10 SEWER CLEANOUT (CO)
NOT TO SCALE



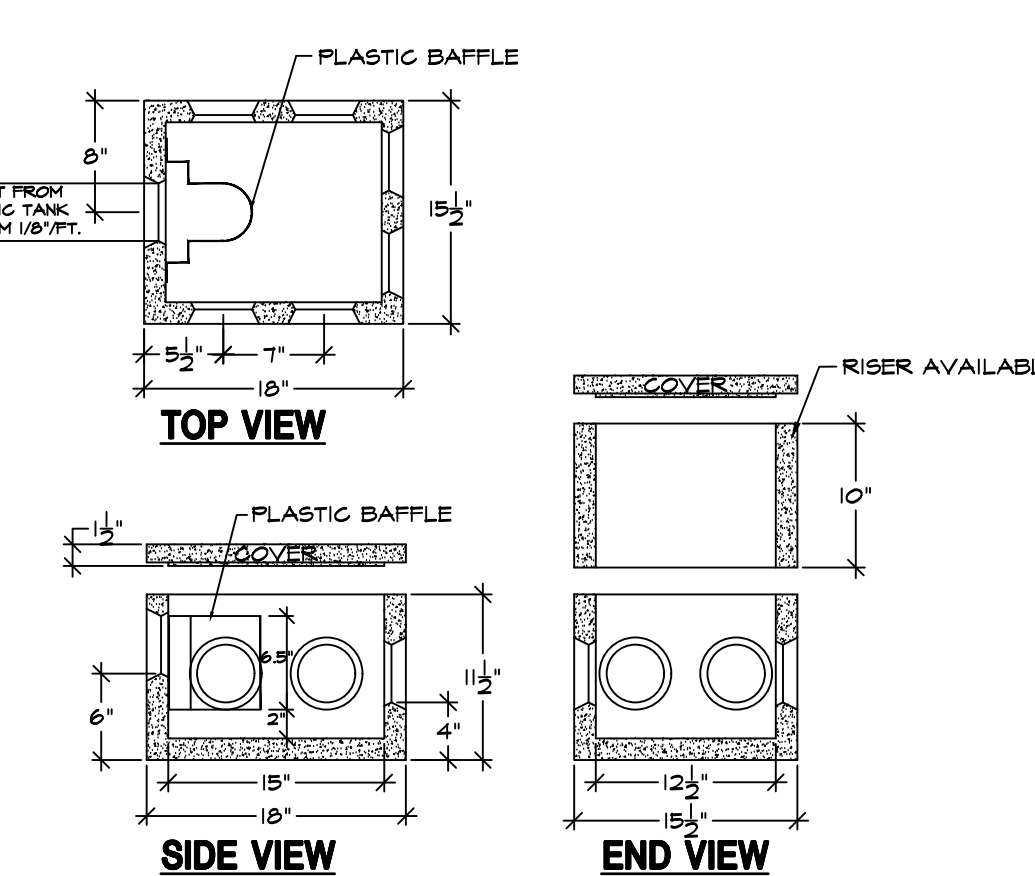
6 SAND FILTER
NOT TO SCALE



9 SANITARY SEWER PIPE BEDDING
NOT TO SCALE



8 6 OUTLET D-BOX (SUNNYCREST)*
NOT TO SCALE *OR APPROVED EQUAL



5 1500 GALLON UTILITY TANK #2 (SUNNYCREST)*
NOT TO SCALE *OR APPROVED EQUAL

6 OUTLET D-BOX (SUNNYCREST)*
NOT TO SCALE *OR APPROVED EQUAL



Fayetteville Veterinary Hospital

8122 EAST GENESEE STREET

JUNE 27, 2022

PLANNING BOARD SUBMISSION

LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS

- A101 FLOOR PLANS
- A201 BUILDING ELEVATIONS
- A203 BUILDING ELEVATIONS

LANDSCAPE DRAWINGS

- L101 SITE PREPARATION PLAN
- L201 GRADING, DRAINAGE, & UTILITY PLAN
- L301 LAYOUT PLAN
- L302 PLANTING PLAN
- L401 EROSION CONTROL PLAN
- L402 NYSDOT WORK NOTES
- L403 MPT PLAN
- L404 WORK ZONE TRAFFIC CONTROL PLAN
- L501 DETAILS
- SITE SURVEY



ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:
**KEPLINGER
FREEMAN
ASSOCIATES**
LANDSCAPE ARCHITECTURE & LAND PLANNING
6320 RLY ROAD, SUITE 100 EAST SYRACUSE, NEW YORK 13207
PHONE: (315) 445-7980 FAX: (315) 445-7981

SEAL:

PLANNING
BOARD
SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY
HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION
3.	6/13/22	PB MEETING
4.	6/14/22	NYSDOT REVS.
5.	6/27/22	PB SUBMISSION

AM JOB NO.

COVER SHEET

DATE ISSUED: 05/02/22

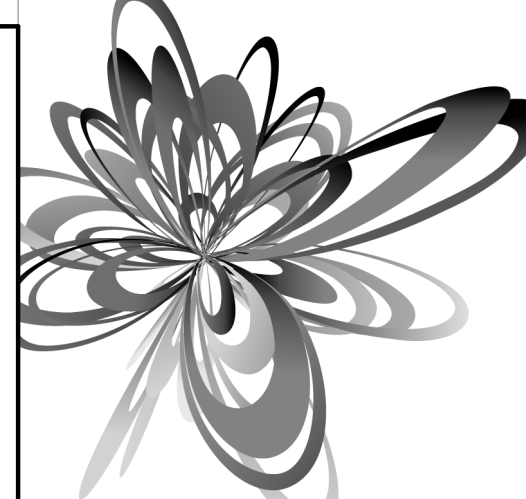
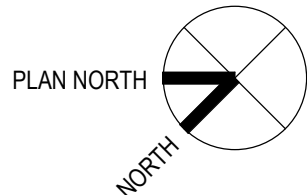
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A1 FLOOR PLAN
1/4" = 1'-0"



ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:

SEAL:

DESIGN
6/8/22
DEVELOPMENT
NOT FOR CONSTRUCTION

OWNER:
FAYETTEVILLE VETERINARY
HOSPITAL
8122 E GENESEE ST
FAYETTEVILLE, NY 13066

NEW BUILDING

FAYETTEVILLE VETERINARY HOSPITAL

8122 E GENESEE ST, FAYETTEVILLE, NY 13066

AN JOB NO. 17012

REV. NO.	DATE

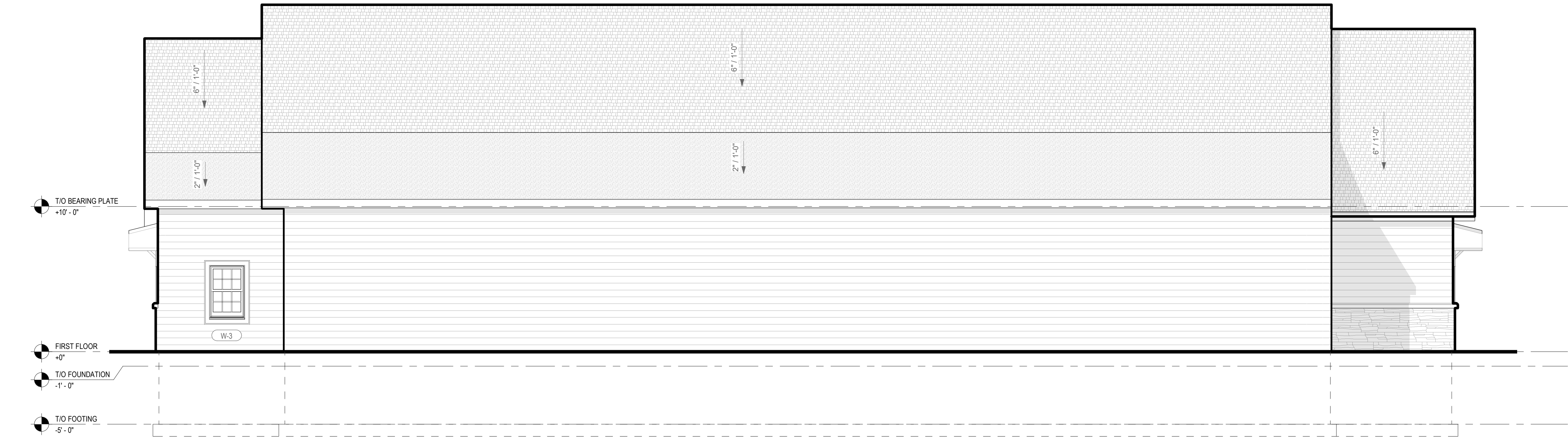
DATE ISSUED: 06/27/22

FLOOR PLANS

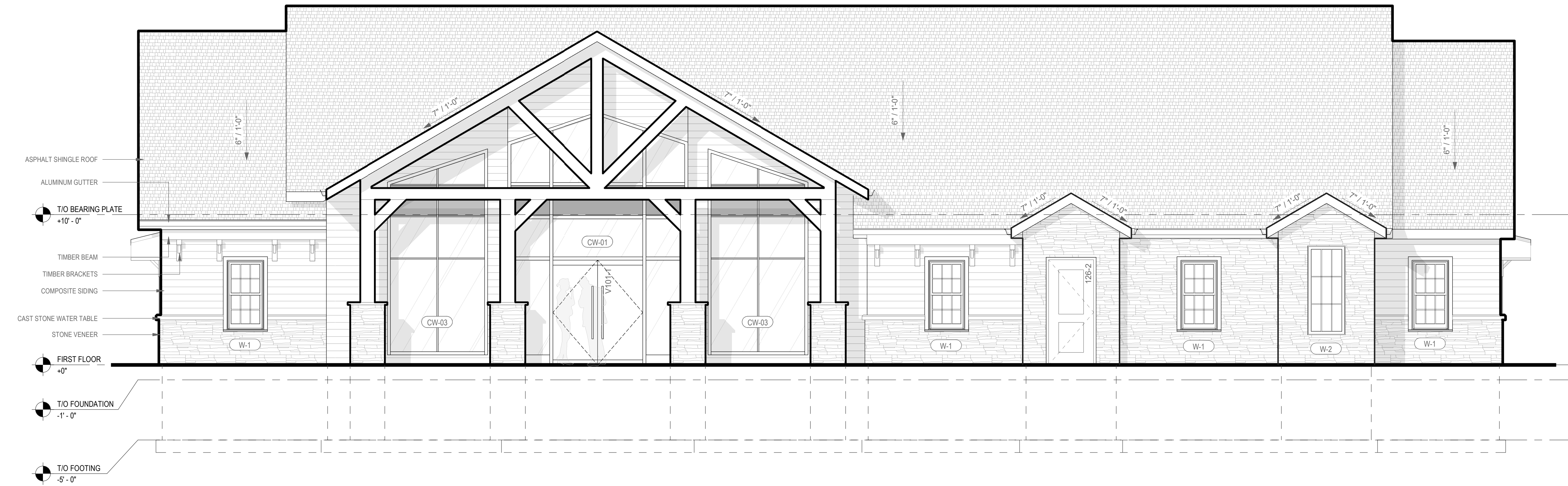
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A101

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E1 EXTERIOR ELEVATION - EAST
1/4" = 1'-0"



A1 EXTERIOR ELEVATION - WEST
1/4" = 1'-0"



ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:

SEAL:
DESIGN
6/27/22
DEVELOPMENT
NOT FOR CONSTRUCTION

OWNER:
FAYETTEVILLE VETERINARY
HOSPITAL
8122 E GENESEE ST
FAYETTEVILLE, NY 13066

NEW BUILDING
8122 E GENESEE ST, FAYETTEVILLE, NY 13066
AN JOB NO. 17012

REV. NO.	DATE

DATE ISSUED: 06/27/22

BUILDING
ELEVATIONS

FVH
A201

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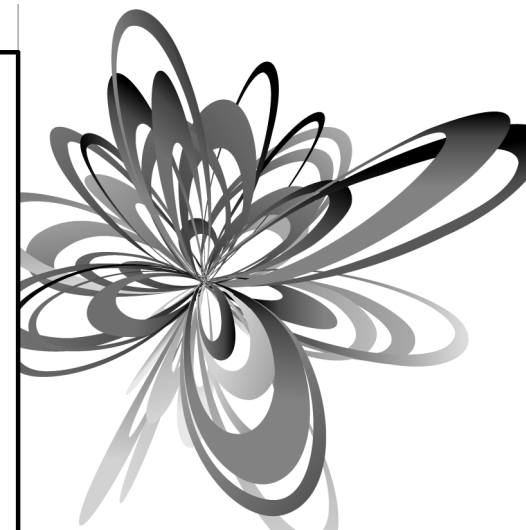
C:\Users\ashm\OneDrive\Documents\17012\FVH\21_ashm.dwg



E2 EXTERIOR ELEVATION - NORTH
1/4" = 1'-0"



A2 EXTERIOR ELEVATION - SOUTH
1/4" = 1'-0"



ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:

SEAL:
DESIGN
6/27/22
DEVELOPMENT
NO FOR CONSTRUCTION

OWNER:
FAYETTEVILLE VETERINARY
HOSPITAL
8122 E GENESEE ST
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BUILDING
ELEVATIONS

FVH
A203

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PROJECT LOCATION



NOTE: THE PROPERTY OWNER IS RESPONSIBLE FOR ALL REQUIRED FUTURE MAINTENANCE OF ON-SITE STORMWATER FACILITIES.

GENERAL NOTES

X-FAT ANIMAL-HEN NOTES

- TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY CT MALE ASSOCIATES SURVEYORS, D.P.C. SYRACUSE, NY, DATED JANUARY 6, 2017.
- OWNER AND ARCHITECT DO NOT CONFIRM THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION. CONTRACTOR IS RESPONSIBLE FOR THOROUGH EXAMINATION AND VERIFICATION OF ALL EXISTING SURFACE AND SUBSURFACE CONDITIONS AFFECTING THE NATURE, SCOPE, COMPLEXITY AND COST OF THE CONTRACT WORK. ADDITIONAL INFORMATION ON EXISTING CONDITIONS HAS BEEN ADDED TO THE DRAWINGS BASED ON THE LANDSCAPE ARCHITECT'S OBSERVATIONS BUT IS NOT INTENDED TO AND DOES NOT ALTER THE SURVEY INFORMATION. REFER TO SURVEY NOTES FOR ADDITIONAL INFORMATION.
- SAW CUT FOR PAVING REMOVALS. EXTEND REMOVAL LINES TO INCLUDE ANY ADJOINING BROKEN OR DETERIORATING PAVING. CAREFULLY REMOVE STOCKPILE AND PROTECT ANY ITEMS NOTED FOR SALVAGE. ALL DEMOLITION RUBBLE, DEBRIS AND EXCESS SOILS TO BE PROMPTLY REMOVED FROM SITE. STRIP AND STOCKPILE SUFFICIENT EXISTING ORGANIC TOPSOILS FOR RESPREADING AS REQUIRED ON DISTURBED AND REGRADED AREAS TO BE ESTABLISHED AS LAWN AND FOR REPAIR OF DISTURBED EXISTING LAWNS TO REMAIN. STOCKPILE ALL MATERIALS IN APPROVED LOCATIONS WITHOUT INTERFERING WITH OTHER CONTRACTOR WORK, SCHOOL TRAFFIC OR DRAINAGE.
- ALL FILL/BACKFILL OF EXCAVATIONS AND VOIDS RESULTING FROM REMOVALS AND RELATED WORK UNDER PROPOSED OR REPLACEMENT PAVING AREAS SHALL ONLY BE COARSE AGGREGATE FILL OR SUBBASE COURSE MATERIAL THOROUGHLY COMPACTED.
- PROTECT ALL FACILITIES AND IMPROVEMENTS ON AND ADJOINING THE PROPERTY WHICH ARE NOT SPECIFICALLY IDENTIFIED FOR REMOVAL. VERIFY LOCATIONS AND DEPTHS OF ALL SUBSURFACE UTILITIES TO REMAIN PRIOR TO ANY ADJACENT REMOVAL AND EXCAVATION WORK.
- ALL EXISTING FEATURES SHALL REMAIN UNLESS OTHERWISE NOTED. IF THE CONTRACTOR DAMAGES ANY OF THE EXISTING ON-SITE FACILITIES TO REMAIN (TREES, PAVEMENTS, UNDERGROUND UTILITIES, STRUCTURES, ETC.) WHETHER SHOWN ON THE PLANS OR NOT, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE SUCH ITEMS AT HIS OWN EXPENSE AND ASSUME ALL RESPONSIBILITY FOR SUCH DAMAGE WITHOUT ANY ADDITIONAL COST TO THE OWNER. REPLACEMENT MATERIAL SHALL BE SAME QUALITY AND QUANTITY AS ORIGINAL.
- THE CONTRACTOR SHALL CONFIRM EXISTING GRADES AND LOCATIONS OF ALL EXISTING FEATURES WITHIN THE CONTRACT LIMIT LINE. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND AT (315) 445-1980.
- ADJUST RIMS OF UTILITY STRUCTURES TO REMAIN WITHIN AREAS OF GRADE CHANGES TO MEET PROPOSED LINES AND GRADES.
- ALL NON-PAVED AREAS ARE TO BE LAWN UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BLEND NEW WORK SMOOTHLY AND EVENLY WITH EXISTING LINES AND GRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE WITHIN THE CONTRACT LIMIT LINE. EXISTING LAWNS SHALL BE MOVED AS MUCH AS PRACTICAL TO KEEP AREA FROM LOOKING UNSIGHTLY. ALL TRASH AND DEBRIS SHALL BE PICKED UP AND DISPOSED OF PROPERLY.

EXISTING CONDITIONS & REMOVAL/DEMOLITION NOTES

LI-SITE-PREP-NOTES

- REMOVE EXISTING PAVEMENTS - SEE NOTE 2 BELOW
- SAWCUT ASPHALT OR CONCRETE PAVEMENT. SAWCUT ASPHALT IN NEAT STRAIGHT LINE AND SAWCUT CONCRETE PAVEMENT AT NEAREST SCORE JOINT.
 - REMOVE EXISTING ASPHALT PAVEMENT AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING TREE / VEGETATION, INCLUDING ROOT SYSTEM AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING TOPSOIL AND STOCKPILE IN OWNER APPROVED LOCATION.
 - REMOVE EXISTING GRAVEL SURFACING AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING STONE WALL AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING RETAINING WALL AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING CONCRETE PAVEMENT AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING BUILDING AND DISPOSE OF OFF SITE. REFER TO ARCHITECTURAL PLAN.
 - REMOVE EXISTING YARD LIGHT AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING SIGN AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING RAILING AND DISPOSE OF OFF SITE.
 - REMOVE AND DISPOSE OF EXISTING SIGN AND PLANTER.
 - CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITIES TO SHUT OFF SERVICES BEFORE DEMOLITION WORK STARTS.
 - REMOVE EXISTING STONE SURFACING AND DISPOSE OF OFF SITE.
 - EXISTING UTILITY POLE TO BE REMOVED/RELOCATED TO LOCATION SHOWN ON SHEET L21. COORDINATE WITH PROPER UTILITY.
 - REMOVE EXISTING STRUCTURE AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING 18" STORM PIPE AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING END SECTION AND DISPOSE OF OFF SITE.
 - REMOVE EXISTING 24" STORM CULVERT, REGRADE AREA PER SHEET L201.
 - EXISTING UTILITY POLE TO REMAIN AND BE PROTECTED.
 - APPROXIMATE LOCATION OF PROPOSED ON-SITE SANITARY DISPOSAL SYSTEM. PROTECT FIELD AREA FROM CONSTRUCTION ACTIVITIES.

LEGEND

X-FAT ANIMAL-HOSP

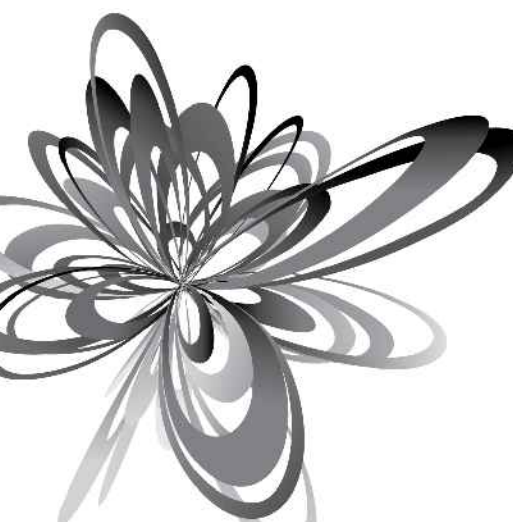
EXISTING	PROPOSED	DESCRIPTION
100		CONTOUR
+377.7		SPOT ELEVATION
CT/CE		CURB TAPER/END
TC/BC		TOP/BOTTOM OF CURB
HP/LP		HIGH / LOW POINT
TP-2		TEST PIT
B-1		BORING (SEE SPECIFICATIONS FOR BORING INFO)
		GUIDERAIL
		FENCE
		UTILITY POLE
		WATER LINE
EX 4" FM	4" FM	FIRE HYDRANT
EX ST	ST	FORCE MAIN SANITARY LINE
EX SAN	UD	STORM PIPE
E/T		UNDERDRAIN
E		SANITARY PIPE
T		OVERHEAD ELECTRIC
		UNDERGROUND ELECTRIC
		TELEPHONE
		FORCE MAIN MANHOLE
		STORM STRUCTURE
		DRYWELL
		INLET
		CATCH BASIN/MANHOLE
		CLEAN OUT
		SANITARY MANHOLE
		ASPHALT PAVEMENT-WALK
		ASPHALT PAVEMENT-PARKING
		ASPHALT PAVEMENT-DRIVE
		CONCRETE PAVEMENT
		SAFETY SURFACING
		MAINTENANCE STRIP
		STONE SHOULDER
		OUTLET PROTECTION
		OUTLET PROTECTION FOR 6" PIPE OR LESS
		OUTLET PROTECTION FOR 8" - 12" PIPE
		OUTLET PROTECTION FOR 18" PIPE, DIMENSIONS PER PLANS
		TRAFFIC SIGN
		TRAFFIC SIGN - SET IN BOLLARD
		TRAFFIC SIGN - MOVABLE
		LIGHT POLE (SEE ELECTRICAL PLANS FOR WIRING)
		CURB
		CURB FLUSH (1" REVEAL UNLESS OTHERWISE NOTED)
		SILT FENCE
		ATHLETIC FIELD TURF or SOD
		TREE
		SHRUB
		PLANT KEY
		VEGETATION

ZONING DATA CHART - TOWN OF MANLIUS

CURRENT ZONE	RA - RESTRICTED AGRICULTURAL DISTRICT
LOT AREA (NO SEWER)	REQUIRED 100,000 SF PROVIDED 125,815 SF
FRONT YARD SETBACK	40 FT. 40 FT.
REAR YARD SETBACK	40 FT. 40 FT.
SIDE YARD SETBACK	20 FT. 20 FT.

PARKING DATA CHART

	REQUIRED	PROVIDED
PARKING STALL DIMENSIONS	10 FT. X 20 FT.	10 FT. X 20 FT.
OFFICES (1 SPACE/ 300 SQ. FT.)	20 SPACES	25 SPACES



ASHLEY MCGRAW

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6320 RLY ROAD, SUITE 100, EAST SYRACUSE, NEW YORK 13207
PHONE: (315) 445-7980 FAX: (315) 445-7981

SEAL:

PLANNING
BOARD
SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY
HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION
3.	6/13/22	PB MEETING
4.	6/14/22	NYS DOT REV'S.
5.	6/27/22	PB SUBMISSION

AM JOB NO.

SITE
PREPARATION
PLAN

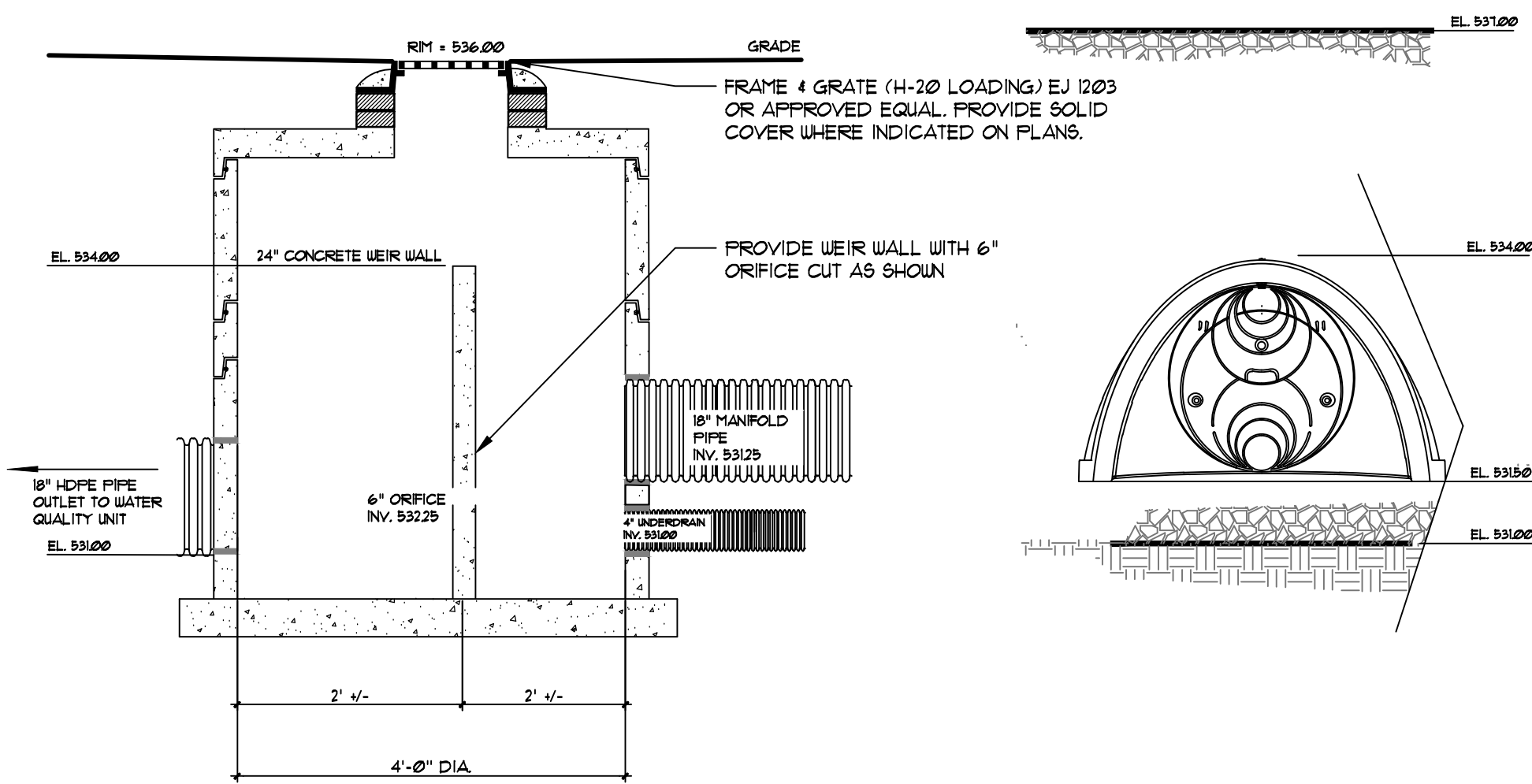
DATE ISSUED:
05/02/22

L101

SITE DEMOLITION PLAN

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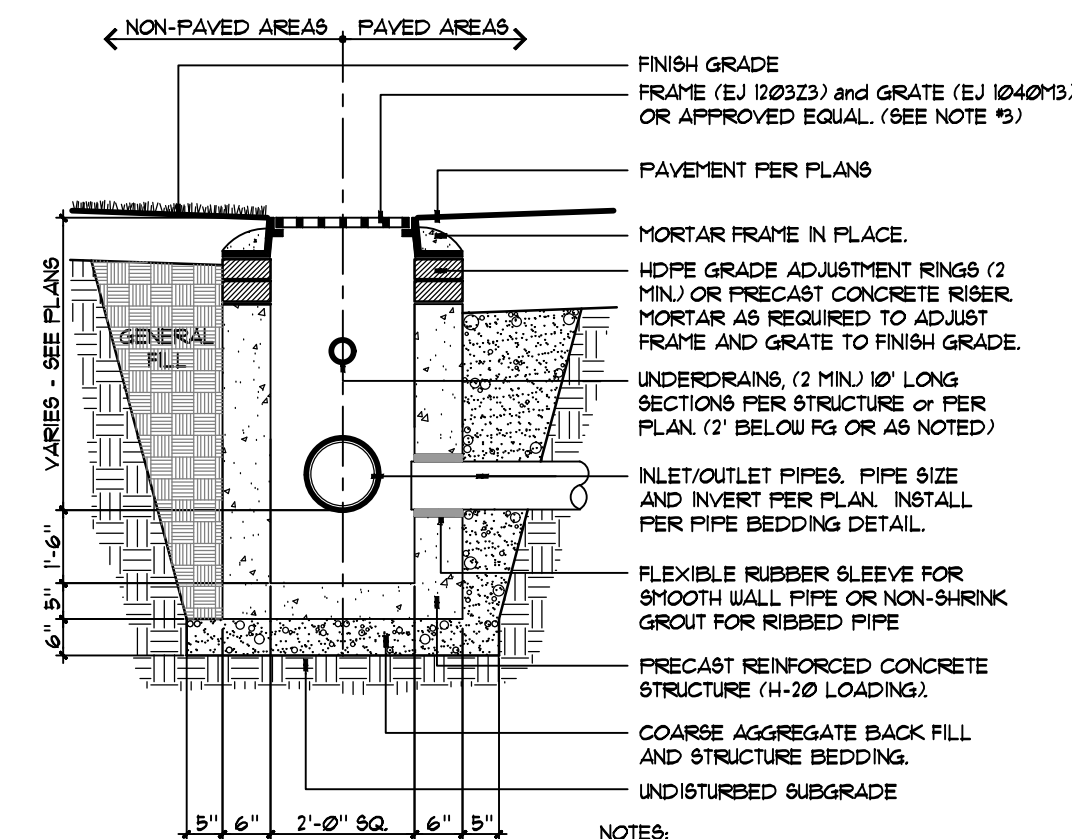


NOTE: SECTION SHOWN FOR SCHEMATIC PURPOSES ONLY

SECTION

3 OUTFLOW STRUCTURE

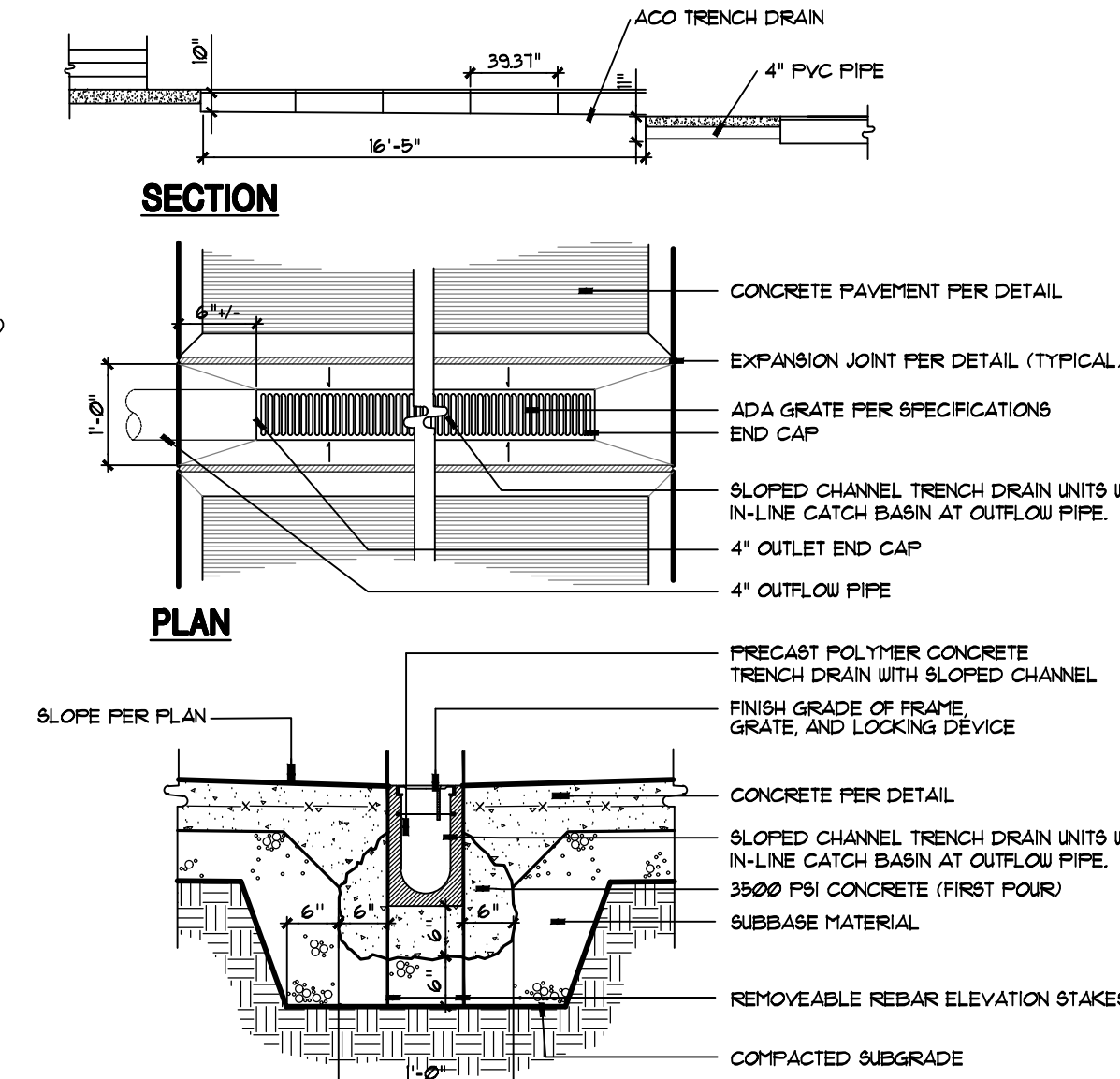
L201 NOT TO SCALE



SECTION

2 STORM INLET (SI)

L201 NOT TO SCALE



SECTION

1 TRENCH DRAIN

L201 NOT TO SCALE

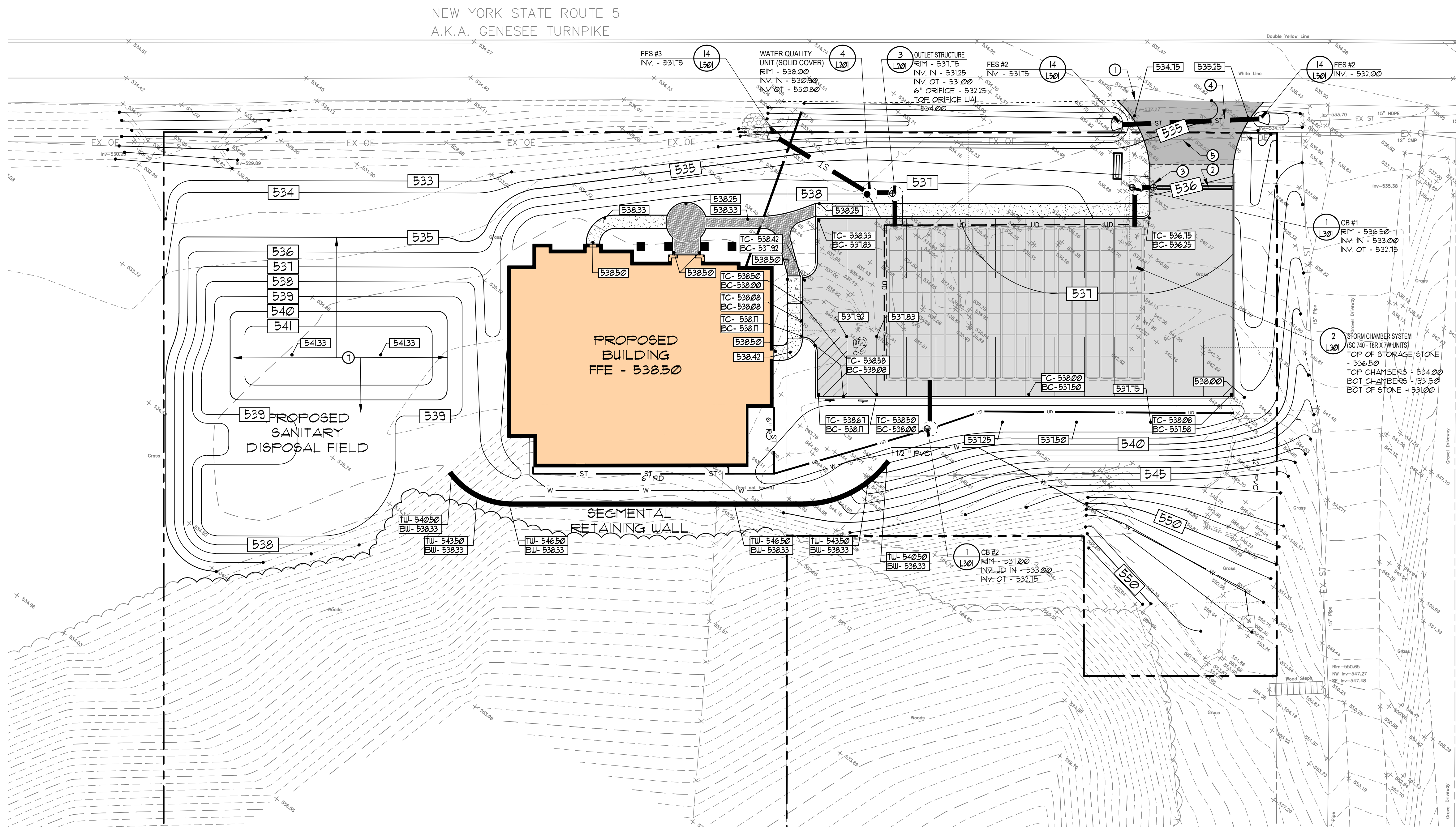
GRADING and UTILITY GENERAL NOTES

1. ANY/ALL FILL REQUIRED BELOW PAVING SUBGRADE SHALL ONLY BE COARSE AGGREGATE FILL OR SUBBASE COARSE MATERIALS.
2. WHEREVER EXISTING STORM STRUCTURES ARE TO BE ABANDONED AND REMOVED, CUT AND PLUG CONNECTING PIPES AND/OR REMOVE PORTIONS OF PIPES WHICH MAY INTERFERE WITH OTHER WORK.
3. ALL CONCRETE PAVING AT ALL DOORS SHALL BE FLUSH WITH BUILDING FLOOR ELEVATION. CONCRETE PAVEMENT SHALL BE COULED TO FOUNDATION WALL PER DETAILS.
4. ALL GRAVITY SANITARY SEWER LINES SHALL BE SDR-35 PVC WITH 48" MIN. COVER.
5. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
6. ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
7. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND THE CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
8. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM KEPLINGER FREEMAN ASSOCIATES (KFA/RZ ENGINEERING AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. KFA AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
9. ANY ELECTRIC AND LIGHT POLES AND/OR EQUIPMENT IS SHOWN FOR COORDINATION PURPOSES ONLY. LOCATIONS ARE APPROXIMATE ONLY. REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATIONS AND DETAILED INFORMATION.
10. PROVIDE BENDS ON WATER LINE AS NECESSARY TO ACHIEVE PROPOSED LAYOUT. ALL BENDS TO BE INSTALLED WITH A THRUST BLOCK. REFER TO DETAIL.

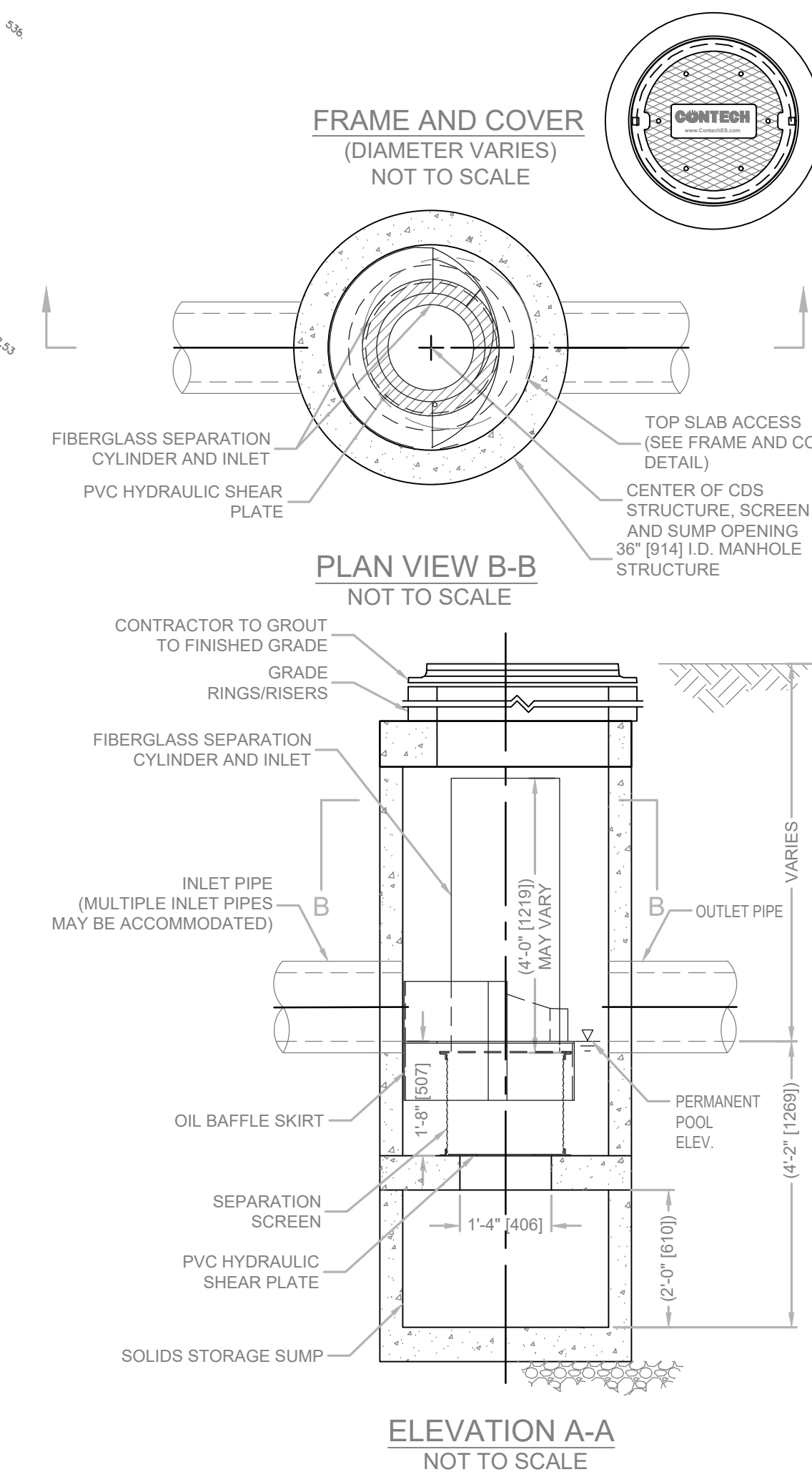
GRADING, DRAINAGE AND UTILITY NOTES

L201-GDU-NOTES

1. MEET EXISTING LINE AND GRADE OF ADJACENT MATERIAL.
2. INSTALL TRENCH DRAIN PER DETAIL 1/201.
3. INSTALL STORM INLET PER DETAIL 2/L201.
4. INSTALL 18" CULVERT UNDER PROPOSED DRIVEWAY.
5. PROPOSED RELOCATION OF UTILITY POLE. CONTRACTOR TO COORDINATE WITH PROPER UTILITY FOR WORK.
6. INSTALL PIPE BEDDING PER DETAIL 12/L201.
7. LOCATION OF MODIFIED MOUND ON-SITE SEWAGE DISPOSAL SYSTEM REFER TO DRAWINGS S-1 AND S-2 PREPARED BY RZ ENGINEERING FOR SPECIFIC DESIGN DETAILING AND REQUIREMENTS.



GRADING PLAN

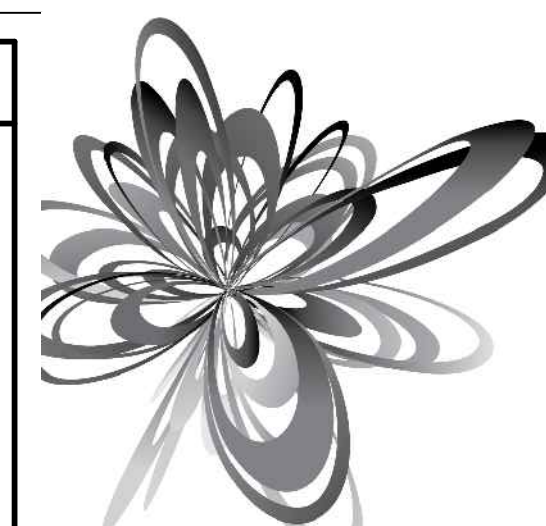


ELEVATION A-A

NOT TO SCALE

4 WATER QUALITY UNIT

L201 NOT TO SCALE



ASHLEY MCGRAW

25 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

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SEAL:
PLANNING BOARD SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION
3.	6/13/22	PB MEETING
4.	6/14/22	NYSDOT REVS.
5.	6/27/22	PB SUBMISSION

AW JOB NO.

GRADING, DRAINAGE and UTILITY PLAN

DATE ISSUED: 05/02/22

L201

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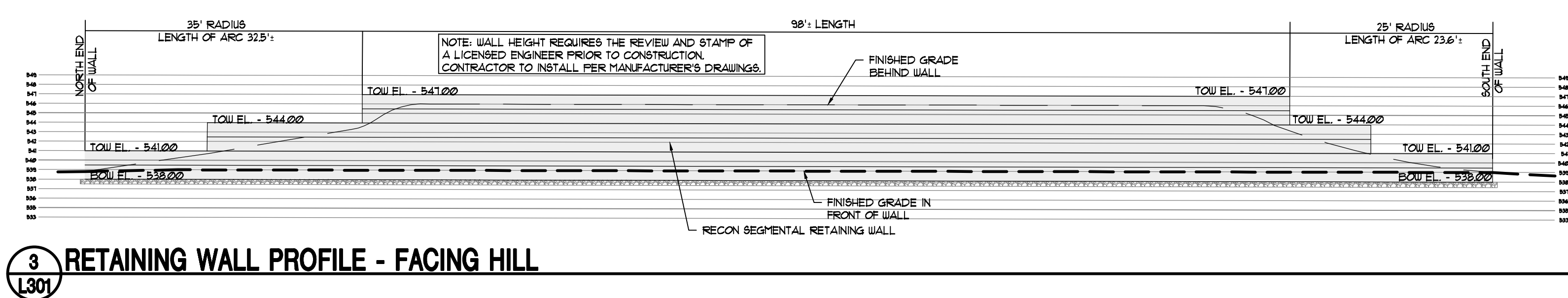
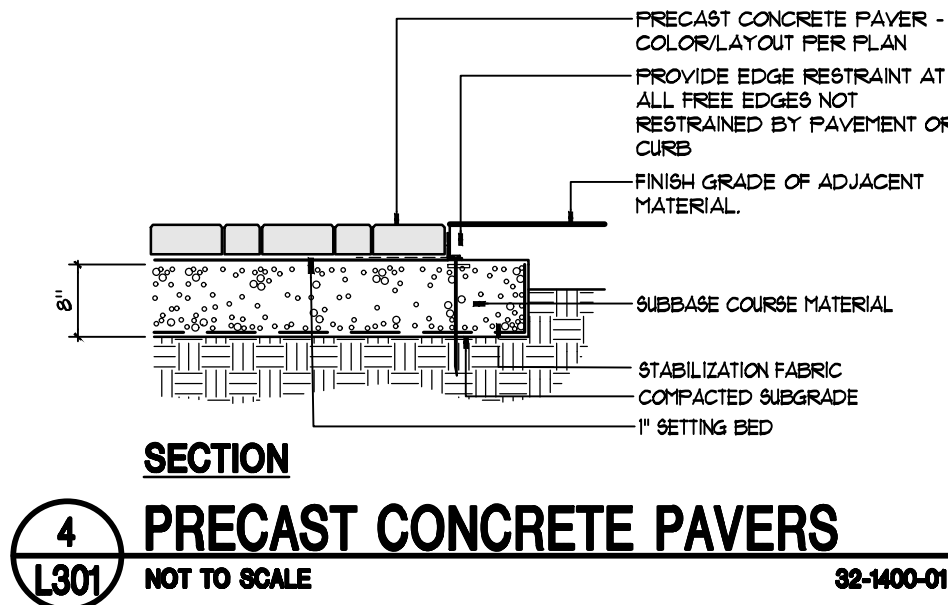
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SIGN SCHEDULE

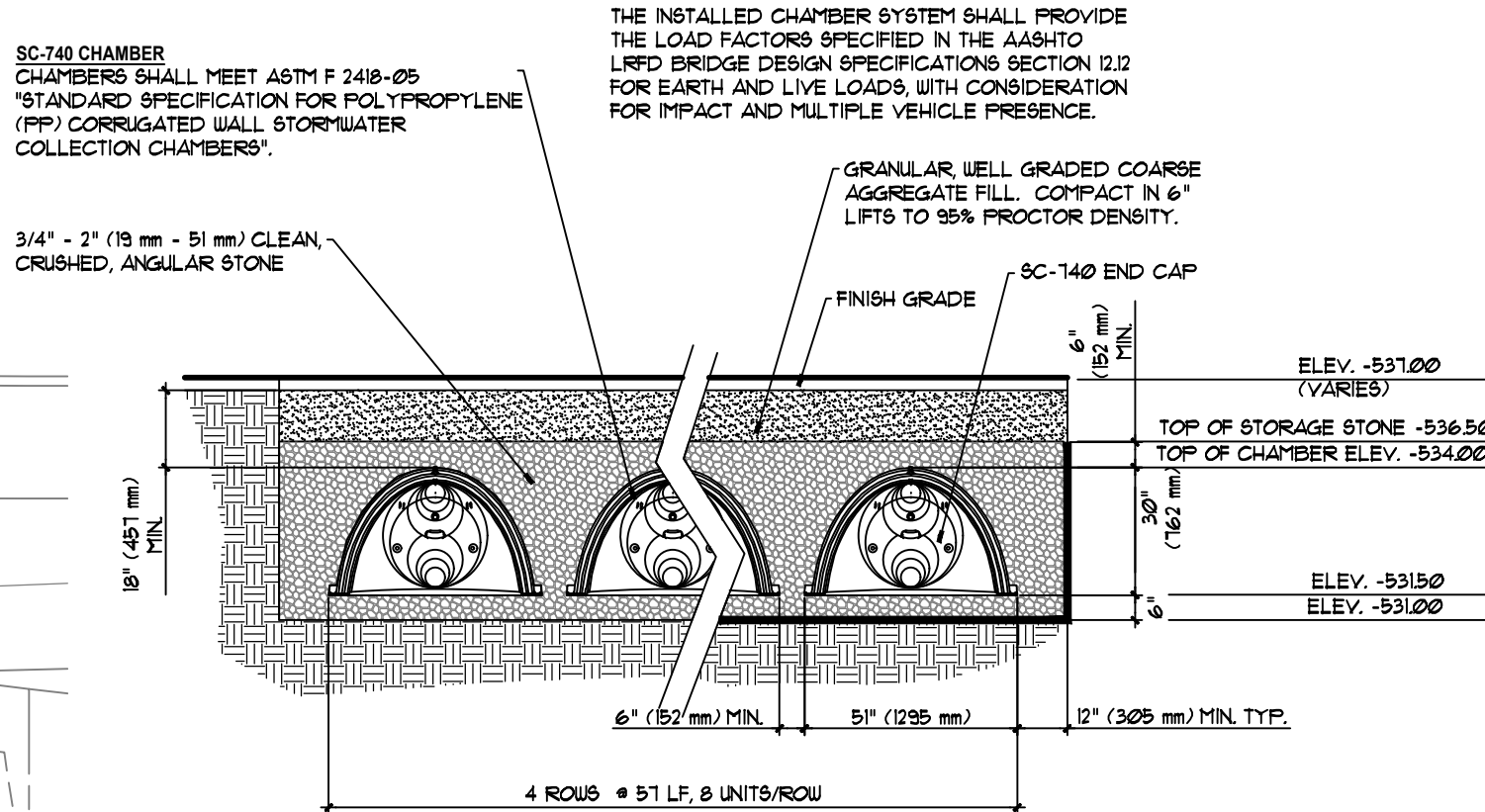
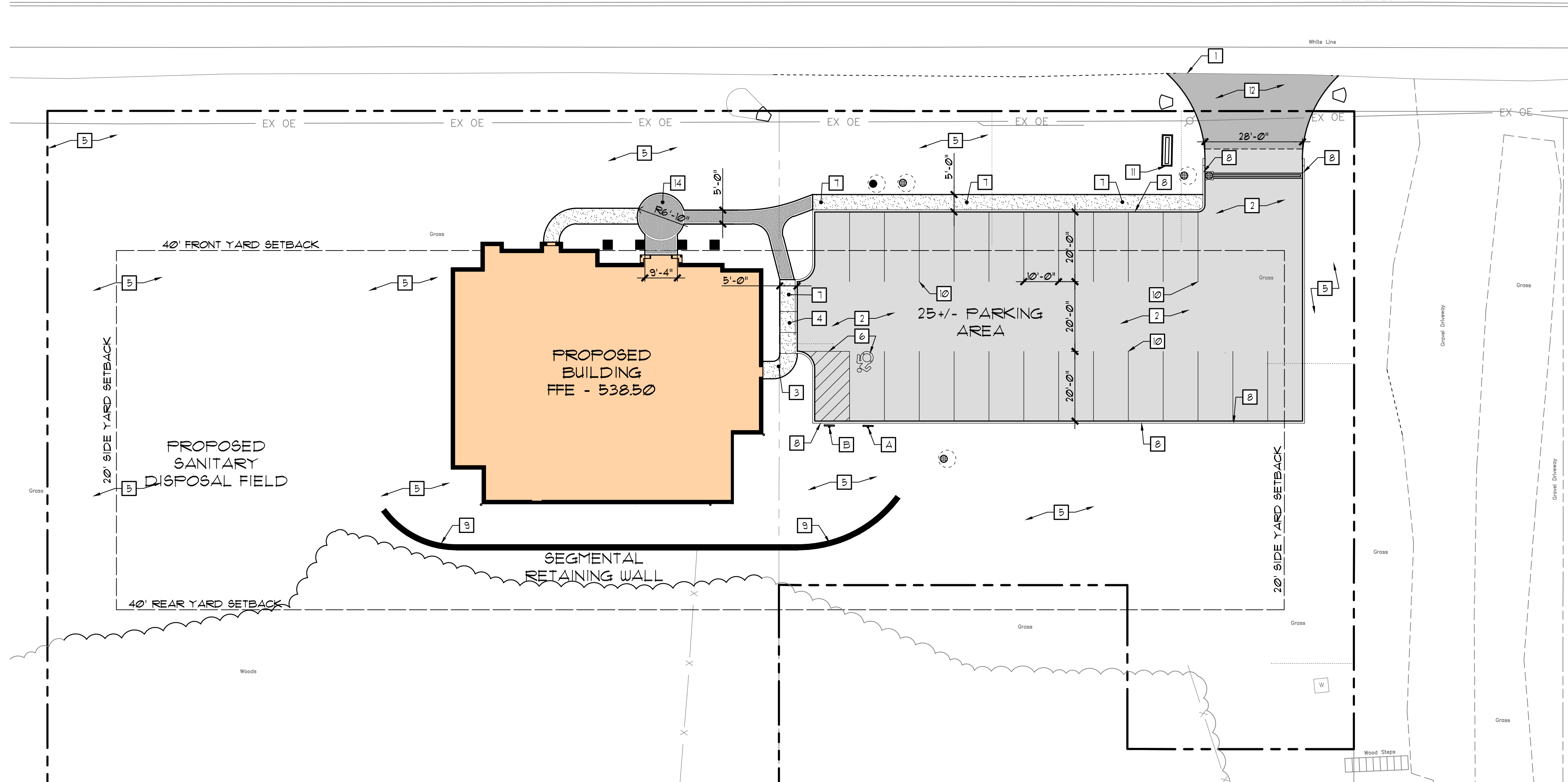
KEY	SIGN PLATE	SIGN SIZE MOUNTING HT.	NYSDOT, MUTCD, NO. / COMMENTS
A	 RESERVED PARKING W/ ACCESSIBLE SYMBOL	12" X 18" 7'-0" HT.	SIGN NO.: P4-6 COLORS: WHITE BACKGROUND, BLUE ICON, GREEN TEXT/ BORDER COMMENTS:
B	 NO PARKING ANY TIME	12" X 18" 7'-0" HT.	SIGN NO.: - RT-1 COLORS: WHITE BACKGROUND, RED TEXT AND BORDER
NOTES: 1. REFER TO TRAFFIC CONTROL SIGN DETAIL 11/L5.1 FOR INSTALLATION. 2. ALL REGULATORY SIGNS SHALL CONFORM TO THE MOST CURRENT NYSDOT "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."			

LAYOUT CONSTRUCTION NOTES

- 1 MEET EXISTING LINE AND GRADE OF ADJACENT SURFACE.
- 2 INSTALL ASPHALT PARKING PAVEMENT PER DETAIL 11/L5.01.
- 3 INSTALL CONCRETE PAVEMENT PER DETAIL 3/L5.01.
- 4 INSTALL ACCESSIBLE RAMP PER DETAIL 9/L5.01.
- 5 INSTALL SEEDED LAWN PER DETAIL 13/L5.01.
- 6 INSTALL RESERVED PARKING STALL PER DETAIL 10/L5.01.
- 7 INSTALL INTEGRAL CONCRETE CURB AND PAVEMENT PER DETAIL 1/L5.01.
- 8 INSTALL CONCRETE CURB PER DETAIL 6/L5.01.
- 9 INSTALL RETAINING WALL A PER DETAIL 17/L5.01.
- 10 4" WIDE PAINTED LINES, (TYP.).
- 11 INSTALL MONUMENT SIGN PER TOWN CODE.
- 12 INSTALL NYSDOT RIGHT-OF-WAY PAVEMENT PER DETAIL 2/L5.01.
- 13 INSTALL CONCRETE DOUELING AT DOORWAY PER DETAIL 8/L5.01.
- 14 INSTALL PRECAST PAVERS PER DETAIL 4/L3.01.



NEW YORK STATE ROUTE 5
A.K.A. GENESEE TURNPIKE

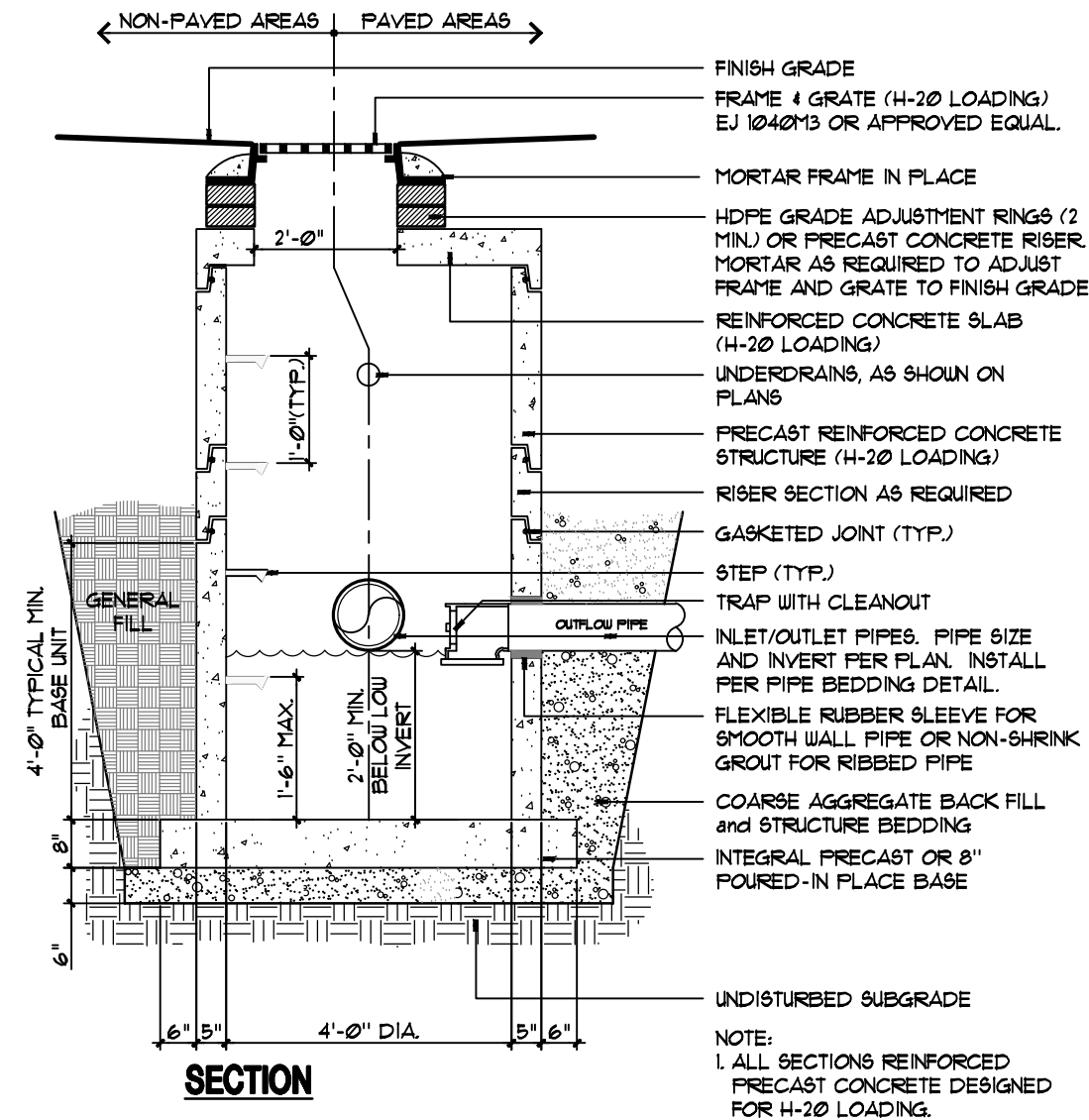


NOTES:
1. MANUFACTURER TO PROVIDE LAYOUT, COMPUTATIONS AND DETAILS FOR A COMPLETE SYSTEM FOR DESIGN ENGINEER AND TOWN ENGINEER REVIEW PRIOR TO SYSTEM INSTALLATION.

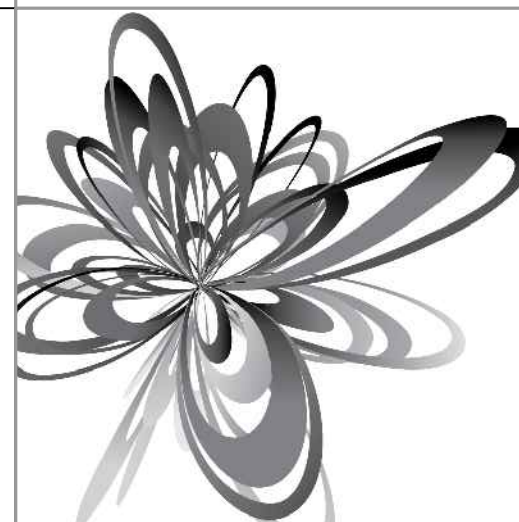
SECTION

2 CROSS SECTION - SC 740

NOT TO SCALE



33-4000-02



ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

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AM JOB NO.

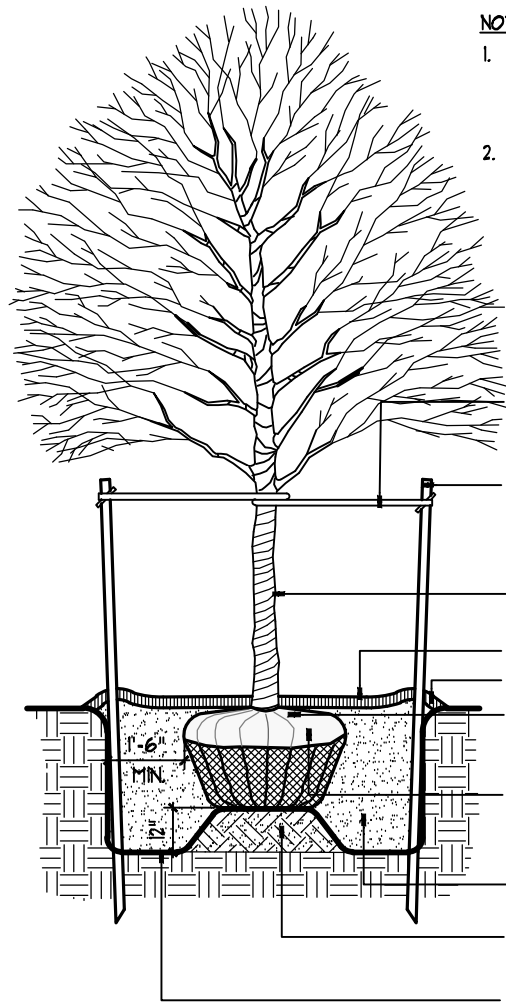
LAYOUT PLAN

DATE ISSUED:
05/02/22

L301

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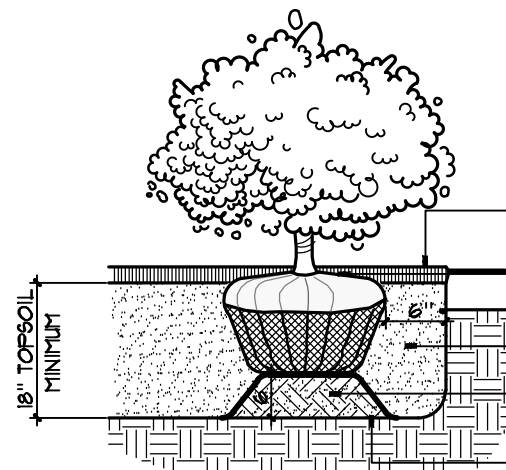
NOTES:

1. REMOVE ALL NONBIODEGRADABLE MATERIAL FROM THE ROOT BALL AND TREE PIT.
 2. PRUNE TOP 1/3 OF CROWN BY THINNING AND SPACING BRANCHES, DO NOT CUT THE LEADER.
- TREE GUYING - INSTALL WITH ARBORISTE (www.arborists.com) OR APPROVED EQUAL PER MANUFACTURER'S SPECIFICATIONS
- TWO 3/4" DIA. CEDAR 1-1/2" GALV. PIPE OR PLASTIC TREE STAKES-8" MIN. LENGTH (ALIGN IN ROWS WITH CUES OR PAVING LINES)
- TREE WRAP TO HOSE GUARDS
- 3" DEPTH MULCH
- SOIL SAUCER
- INSTALL ROOT FLARE FLUSH WITH ADJACENT FINISH GRADE.
- REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL AND ALL SOIL MATERIAL ABOVE ROOT FLARE
- PLANTING SOIL MIX
- COMPACTED PLANTING SOIL MIX
- UNDISTURBED SUBGRADE OR SOIL FILL

SECTION

2
L302 **TREE PLANTING**
NOT TO SCALE

32-9300-01



NOTES:

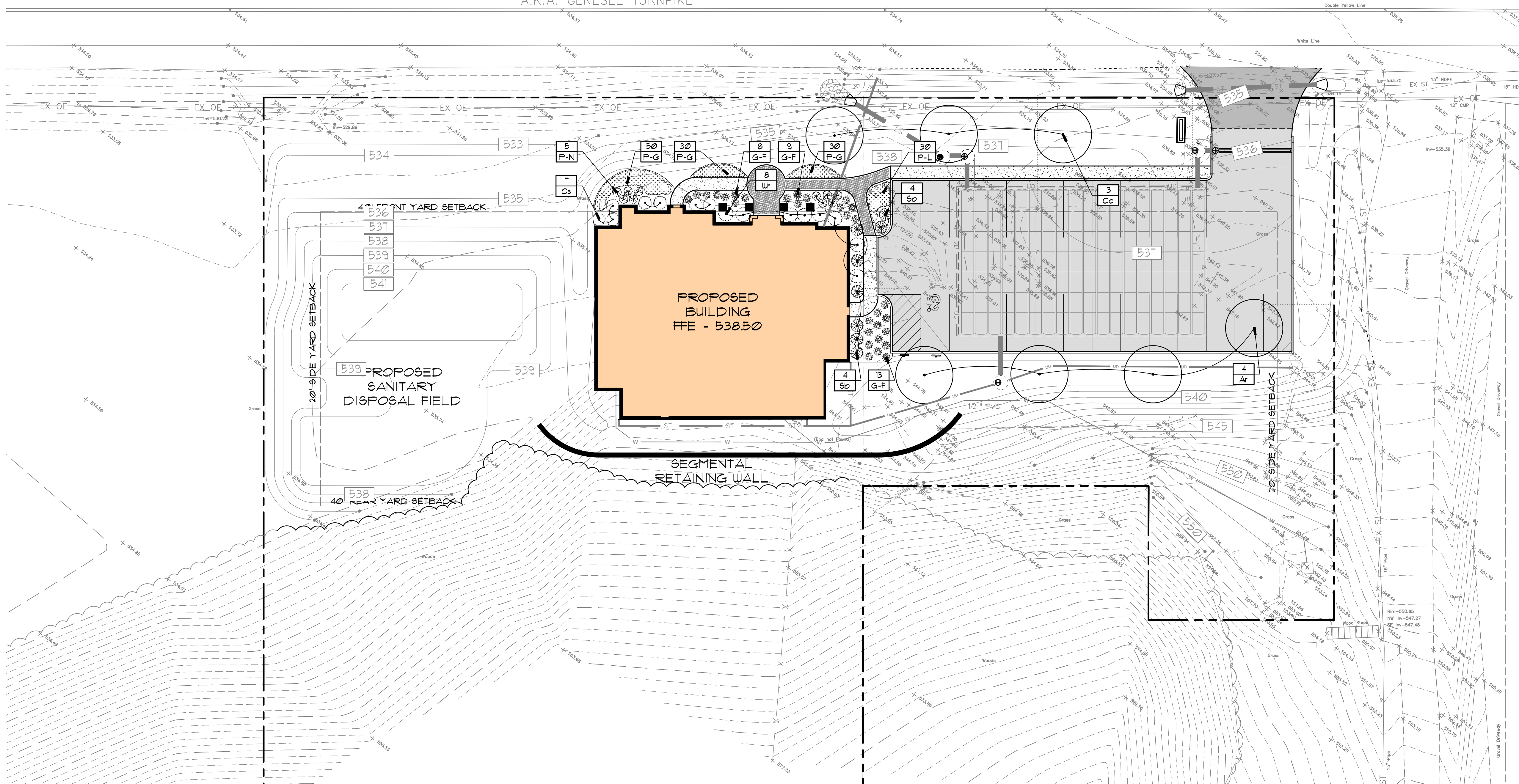
1. REMOVE ALL NONBIODEGRADABLE MATERIAL FROM THE ROOT BALL AND TREE PIT.
 2. PRUNE TOP 1/3 OF ALL TOP GROWTH INCLUDING ALL BROKEN BRANCHES.
 3. SPACE PLANTS WITHIN SHRUB BED AS SHOWN AND BASED ON NUMBER OF PLANTS REQUIRED.
- 3" DEPTH MULCH BED TO LIMITS SHOWN FLUSH TO ADJOINING SURFACES
- INSTALL ROOT FLARE FLUSH WITH ADJACENT FINISH GRADE.
- PLANTING SOIL MIX
- COMPACTED PLANTING SOIL MIX
- UNDISTURBED SUBGRADE

SECTION

1
L302 **SHRUB PLANTING**
NOT TO SCALE

32-9300-02

NEW YORK STATE ROUTE 5
A.K.A. GENESEE TURNPIKE



THESE DOCUMENTS WERE PREPARED UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. THE ENGINEER'S SEAL AND SIGNATURE ARE REQUIRED ON ALL PLANS. THESE PLANS ARE OWNED BY AND REMAIN THE PROPERTY OF ASHLEY MCGRAW ARCHITECTS, P.C. THESE PLANS ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF ASHLEY MCGRAW ARCHITECTS, P.C. IT IS A VIOLATION OF THE EDUCATION LAW OF THE STATE OF NEW YORK TO REPRODUCE OR COPIY THESE PLANS IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF A LICENSED ARCHITECT OR ENGINEER.

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WASTE DISPOSAL / SPILL PREVENTION NOTES

X-WASTE DISPOSAL NOTES

- WASTE DISPOSAL NOTES:
- COLLECT AND STORE ALL WASTE MATERIALS AND DEBRIS IN DUMPSTERS OR OTHER ACCEPTABLE WASTE FACILITIES. ALL COLLECTED WASTE MATERIALS SHALL BE LEGALLY REMOVED AND DISPOSED OF OFF SITE. DUMPSTER SHALL BE EMPTIED ON A PERIODIC BASIS DEPENDING ON GENERATION OF WASTE MATERIAL. NO BURNING OR BUYING OF WASTE MATERIALS WILL BE ALLOWED.
 - STORE, HANDLE AND DISPOSE OF ALL HAZARDOUS MATERIALS AS SPECIFIED BY LOCAL OR STATE LAWS.
- SPILL PREVENTION NOTES:
- CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT EXCESS CONCRETE OR DRUM WASH WATER EXCEPT FOR AT DESIGNATED CONCRETE WASHOUT AREAS.
 - ALL ONSITE FUELING OF EQUIPMENT AND VEHICLES SHALL BE CONDUCTED PER NYSDEC GUIDELINES FOR PETROLEUM BULK STORAGE.
 - MONITOR ALL CONSTRUCTION VEHICLES AND EQUIPMENT FOR LEAKS.
 - ALL PETROLEUM AND LUBRICANTS USED FOR THE OPERATION OF VEHICLES AND EQUIPMENT SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. WHEN POSSIBLE, STORE THESE PRODUCTS IN APPROPRIATE CONTAINERS OR UNDER ROOFED FACILITIES.

SOIL RESTORATION NOTES

- ACCORDING TO SECTION 5 OF THE NY'S STORMWATER DESIGN MANUAL, SOIL RESTORATION PRACTICES MUST BE APPLIED ACROSS THE SITE IN AREAS OF SOIL DISTURBANCE.
- SOIL RESTORATION REQUIREMENTS:

TYPE OF SOIL DISTURBANCE	SOIL RESTORATION REQUIREMENT
NO SOIL DISTURBANCE	RESTORATION NOT PERMITTED
MINIMAL SOIL DISTURBANCE	RESTORATION NOT REQUIRED
AREAS WHERE TOPSOIL IS STRIPPED ONLY - NO CHANGE IN GRADE	HSG A1B - APPLY 6 INCHES OF TOPSOIL HSG C1D AERATE* AND APPLY 6 INCHES OF TOPSOIL
AREAS OF CUT OR FILL	HSG A1B - AERATE AND APPLY 6 INCHES OF TOPSOIL HSG C1D - APPLY FULL SOIL RESTORATION**
HEAVY TRAFFIC AREAS ON SITE (ESPECIALLY IN ZONE B-25 FEET AROUND BUILDINGS BUT NOT WITHIN A 5 FOOT PERIMETER AROUND FOUNDATION WALLS)	APPLY FULL SOIL RESTORATION (DECOMPACTION AND COMPOST ENHANCEMENT)
AREAS WHERE RUNOFF REDUCTION AND/OR INFILTRATION PRACTICES ARE APPLIED	RESTORATION NOT REQUIRED, BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR APPROPRIATE PRACTICES.
REDEVELOPMENT PROJECTS	SOIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING PERVIOUS AREA WILL BE CONVERTED TO PERVIOUS AREA.
- *AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOIL, A ROLLER WITH MANY SPIKES MAKING INDENTATIONS IN THE SOIL, OR PRONGS WHICH FUNCTION LIKE A MINI-SUB-SOILER.
- **PER "DEEP RIPPING AND DE-COMPACTION, DEC 2009".

- SOIL RESTORATION PRACTICE IMPLEMENTATION:

DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE, THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS APPLIED:
1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC OR TILLER, MIXING AND CIRCULATING AIR AND COMPOST INTO SUBSOILS.
3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEARED OFF THE SITE.
4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
5. VEGETATE AS REQUIRED BY APPROVED PLAN.
6. COMPOST SHALL BE AGED, FROM PLANT DERIVED MATERIALS, FREE OF VIABLE WEED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH A HALF INCH SCREEN AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.

FIGURES 5.16 AND 5.17 TO THE BELOW SHOW TWO ATTACHMENTS USED FOR SOIL DECOMPACTION, TILLING (STEP 2 ABOVE) SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATION THAT ARE WITHIN 24 INCHES OF THE SURFACE.

Figure 5.16 Soil aerator implement



Figure 5.17 Soil aerator implement



4. AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH A 3/8" METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT.
5. THE CONTRACTOR MUST KEEP THE SITE FREE OF VEHICULAR AND FOOT TRAFFIC OR OTHER WEIGHT LOADS. CONSIDER PEDESTRIAN FOOTPATHS, (SOMETIMES IT MAY BE NECESSARY TO DE-HATCH THE TURF EVERY FEW YEARS)
6. ALL SOIL RESTORATION SHALL BE IN ACCORDANCE WITH NYSDEC REGULATIONS AND THE APPROVED SWPPP FOR THE PROJECT.

SWPPP LEGEND

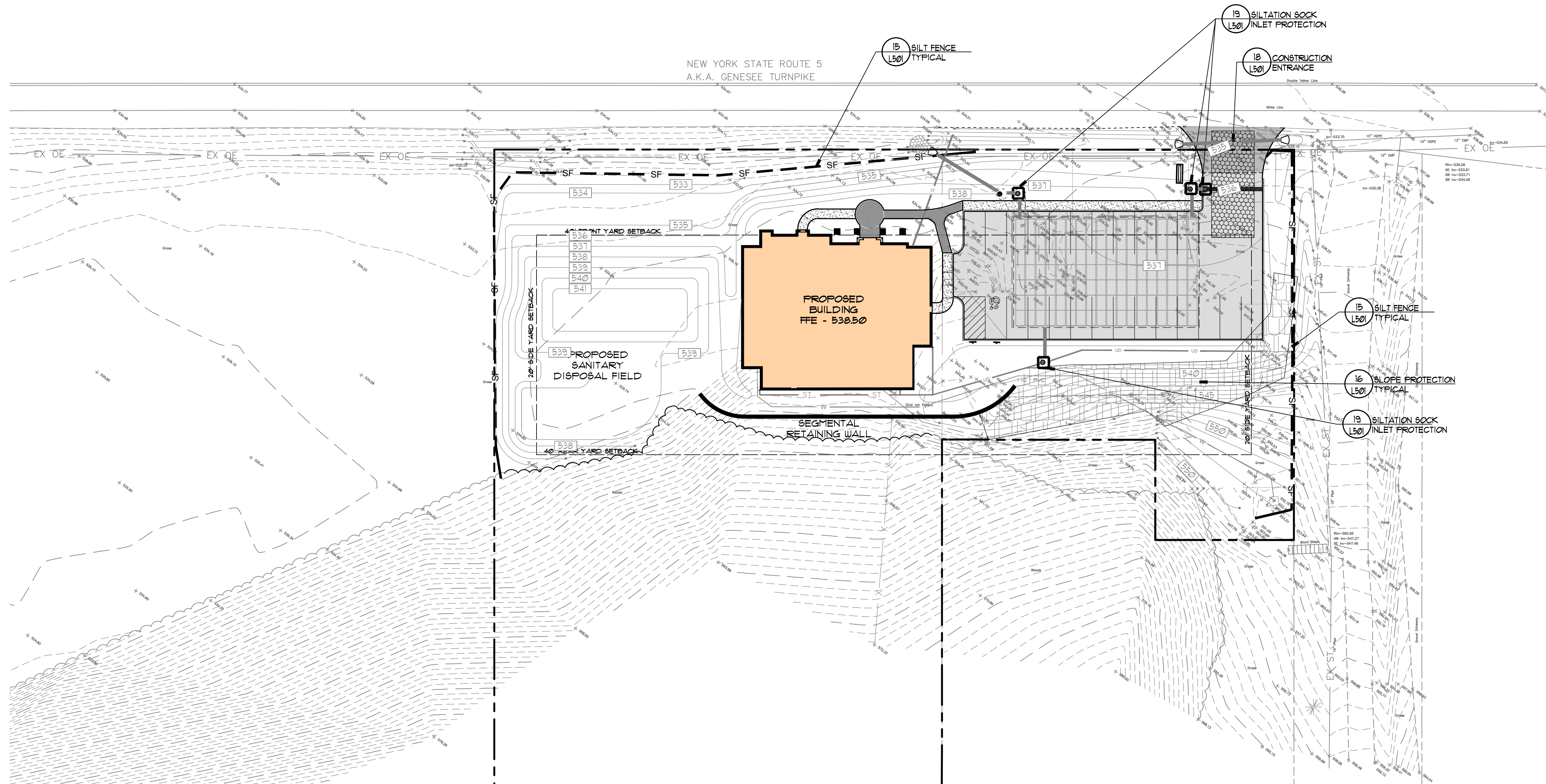
- | | | |
|-----|----|--------------------------|
| --- | SF | SILT FENCE |
| [] | | SEDIMENT TRAP @ CB/INLET |
| [X] | | SLOPE PROTECTION |
| [] | | CONSTRUCTION ENTRANCE |
| [] | | CHECK DAM |
| --- | | SEDIMENT FILTER LOG |

EROSION CONTROL NOTES and EROSION CONTROL SEQUENCING

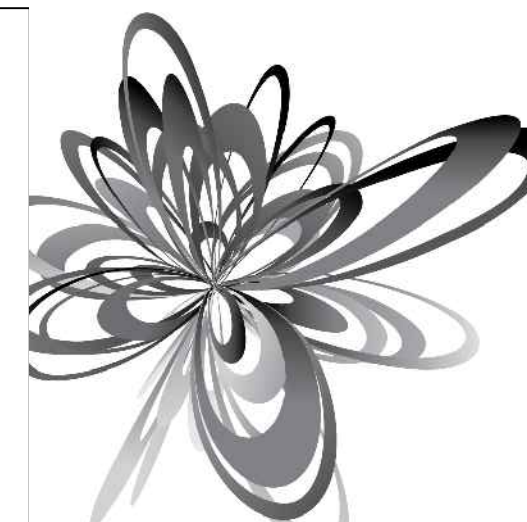
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- EROSION AND SEDIMENT CONTROL NOTES:
- PRIOR TO THE START OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE STABILIZED, ALL EROSION AND SEDIMENT CONTROL MEASURES, AS SHOWN ON THE SITE PLAN AND AS OTHERWISE REQUIRED, SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENTATION CONTROL AND THE SWPPP PREPARED FOR THE PROJECT, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - BARE SOILS SHALL BE MULCHED WITH STRAW AT A RATE OF TWO TONS PER ACRE WITHIN 14 DAYS OF EXPOSURE, UNLESS CONSTRUCTION WILL BEGIN WITHIN 21 DAYS. IF CONSTRUCTION ON AN AREA IS SUSPENDED, THE AREA SHALL BE SEEDED IMMEDIATELY.
 - ALL DISTURBED AREAS WITHIN THE NYSDEC RIGHT-OF-WAY SHALL BE STABILIZED BY STRAW, OR OTHER NYSDOT APPROVED METHOD, AT THE END OF EACH WORK WEEK, REGARDLESS OF WHEN THE SOIL WILL BE DISTURBED AGAIN.
 - SITE PREPARATION SHALL INCLUDE:
 - SEEDBED PREPARATION - SCARIFY IF COMPACTED, REMOVE DEBRIS AND OBSTACLES SUCH AS ROOTS OR STUMPS.
 - SOIL AMENDMENTS
 - FERTILIZE WITH 600 LBS OF 5-10-10 OR EQUIVALENT PER ACRE (14 LBS/1000 SQ FT).
 - SEED MIXTURES
 - TEMPORARY SEEDINGS
 - RYEGRASS (ANNUAL OR PERENNIAL) @ 30 LBS/ACRE (0.1 LBS/1000 SQ FT).
 - CERTIFIED "HARVESTOCK" WINTER RYE (CEREAL RYE) @ 100 LBS/ACRE (25 LBS/1000 SQ FT).
 - PERMANENT SEEDINGS
 - ROUGH OR OCCASIONALLY MOVED AREAS:

EMPIRE BIRDSFOOT	LBS/ACRE	LBS/10000 SQ FT
020	8	0.10
TREFOIL OR COMMON WHITE CLOVER PLUS*	8	0.10
TALL FESCUE PLUS	20	0.45
REDTOP	2	0.05
RYEGRASS (PERENNIAL)	5	0.10
 - *ADD INOCULANT IMMEDIATELY PRIOR TO SEEDING
 - METHOD OF SEEDING:
 - BROADCASTING, DRILLING WITH CULTIPACK TYPE SEEDER OR HYDROSEEDING ARE ACCEPTABLE.
 - DISTURBED AREAS SHALL BE SEEDED AS NOTED ABOVE AND MULCHED WITH CLEAN STRAW AS OUTLINED IN THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENTATION CONTROL. ON SLOPES GREATER THAN 3:1 SEEDED AREAS SHALL BE STAKED WITH JUTE MESH OR SODDED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE STREET PAVEMENT AREAS CLEAN OF DIRT AND DEBRIS.
 - ACCESS TO DISTURBED AREAS SHALL BE LIMITED TO THE AREAS SHOWN ON THE PLAN. THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE AT THE LOCATION SHOWN ON THE PLAN AND ANY OTHER LOCATIONS THE CONTRACTOR INTENDS TO ENTER THE SITE FROM THE ADJACENT ROADWAYS.
 - ANY EXISTING DRAINAGE FACILITIES DISRUPTED BY CONSTRUCTION OR IMPACTED BY INSTALLATION OF EROSION CONTROL MEASURES SHALL BE REPLACED TO MATCH EXISTING CONDITIONS OR BETTER.
 - ALL DESIGN AND MAINTENANCE MEASURES OUTLINED IN THE SWPPP PREPARED FOR THIS PROJECT SHALL BE IMPLEMENTED AND CARRIED OUT BY THE PARTIES DEEMED RESPONSIBLE FOR THOSE DUTIES.
 - THE PERMITTEE & ITS SUBCONTRACTORS ARE RESPONSIBLE FOR MEANS & METHODS OF EROSION CONTROL FACILITIES DURING CONSTRUCTION. IT SHOULD BE NOTED THAT FACILITIES ON THIS DRAWING ARE CONSIDERED MINIMUM & ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS CONSTRUCTION PROGRESSES. THE PERMITTEE & ITS SUBCONTRACTORS ARE RESPONSIBLE FOR ANY ADDITIONAL MEASURES DEEMED NECESSARY BY THE ENGINEER, TOWN OR NYSDEC.
 - PROVIDE EROSION CONTROL MEASURES AS NOTED ON THE PLANS AND AS OTHERWISE REQUIRED TO PREVENT EROSION AND SEDIMENTATION ONTO ADJOINING PROPERTY, STREETS, WATERWAYS, AND ON SITE IMPROVEMENTS BEYOND THE LIMITS OF WORK. COMPLY WITH THE LATEST ISSUE OF THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENTATION CONTROL AND THE NYSDEC'S "REDUCING THE IMPACTS OF STORMWATER RUNOFF FROM NEW DEVELOPMENT".
 - MAINTENANCE - THE CONTRACTOR SHALL INSPECT ALL DRAINAGE STRUCTURES AND EROSION CONTROLS ON A WEEKLY BASIS AND AFTER ALL STORMS (1" RAINFALL OR GREATER) INCLUDING BUT NOT LIMITED TO THE FOLLOWING: REPLACING DAMAGED OR SLITED IN EROSION CONTROLS, CLEANING OUT STRUCTURES, AND STABILIZING ERODED OR WASHED OUT SLOPED AREAS.
 - CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES UNTIL CONSTRUCTION IS COMPLETE, LAWS HAVE BECOME ESTABLISHED AND ALL SOURCES OF EROSION HAVE BEEN PERMANENTLY STABILIZED.
 - CONTRACTOR SHALL PROVIDE DUST CONTROL IN ACCORDANCE WITH THE LATEST ISSUE OF "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL".
- EROSION CONTROL and CONSTRUCTION SEQUENCE
- PRIOR TO SITE DISTURBANCE, CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AS DETAILED AT THE ENTRANCE LOCATION SHOWN ON THE DRAWING.
 - SILT FENCE - INSTALL PERIMETER SILT FENCE AS SHOWN ON PLAN PRIOR TO EARTHWORK. SILT FENCE SHALL BE UTILIZED ONLY AS A TEMPORARY MEASURE. DISTURBED AREAS SHALL BE SEEDED IMMEDIATELY FOLLOWING THE COMPLETION OF ANY EARTHWORK PHASE.
 - CLEARING AND GRUBBING - REMOVE ALL TREES, STUMPS AND BRUSH PRIOR TO EARTHWORK.
 - PROVIDE ALL DRAINAGE CHANNELS AND INSTALL EROSION CONTROL MEASURES WITHIN DRAINAGEWAYS. INSTALL CHECK WHERE INDICATED ON THE PLANS
 - PROVIDE DRAINAGE STRUCTURES AND PIPING, INCLUDING DRAINAGE INLET PROTECTION AS SHOWN ON THE DRAWING.
 - EXCAVATE, FILL AND GRADE PARKING LOT SUBBASE AS SHOWN ON THE DRAWINGS. FINE GRADE, SEED AND MULCH ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS OF DISTURBANCE. AREAS TO RECEIVE ASPHALT PAVEMENT SHOULD BE PAVED WITH AT LEAST THE ASPHALT BINDER COURSE WITHIN SEVEN (7) DAYS OF PLACEMENT OF THE SUBBASE COURSE. MAINTAIN ALL DISTURBED SOIL AREAS AND DRAINAGE FACILITIES UNTIL AREAS ARE COMPLETELY STABILIZED AND VEGETATION IS ACHIEVED.
 - EXCAVATE AND FILL REST OF SITE AREAS. FINE GRADE, SEED AND MULCH ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS OF DISTURBANCE. AREAS TO RECEIVE ASPHALT PAVEMENT SHOULD BE PAVED WITH AT LEAST THE ASPHALT BINDER COURSE WITHIN SEVEN (7) DAYS OF PLACEMENT OF THE SUBBASE COURSE. MAINTAIN ALL DISTURBED SOIL AREAS AND DRAINAGE FACILITIES UNTIL AREAS ARE COMPLETELY STABILIZED AND VEGETATION IS ACHIEVED.
 - REMOVE TEMPORARY CONSTRUCTION ENTRANCE WHEN ASPHALT BINDER COURSE IS PLACED.
 - CLEAN ALL STORMWATER BMP'S AFTER ALL UPSTREAM CONTRIBUTORY DRAINAGE AREAS ARE COMPLETELY STABILIZED AND VEGETATION IS ACHIEVED.
 - REMOVE TEMPORARY SILT FENCING AFTER SITE IS COMPLETELY STABILIZED AND VEGETATION IS ACHIEVED/PROVIDE UNDERDRAIN WITHIN DETENTION BASIN PER PLANS.
- FINAL CLEAN UP & PREVENTATIVE MAINTENANCE
- REMOVE AND/OR MAINTAIN STOCKPILE AREAS.
 - REMOVE EROSION CONTROL MEASURES FROM STABILIZED AREAS.
 - FINAL CLEAN UP - REMOVE EROSION CONTROL MEASURES AND CLEAN OUT ALL DRAINAGE STRUCTURES AND PIPES AFTER LAWN IS WELL ESTABLISHED. OWNER IS RESPONSIBLE FOR MAINTAINING SITE UPON PROJECT CLOSEOUT.
 - CONTRACTOR, ARCHITECT, AND OWNER TO REVIEW SITE FOR COMPLETION. CONTRACTOR TO ADDRESS FINAL COMMENTS ON PUNCH LIST FROM ARCHITECT AND SWPPP INSPECTION REPORTS.
 - SUBMIT NOTICE OF TERMINATION UPON FULL STABILIZATION OF SITE.



LAYOUT PLAN



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SEAL:

PLANNING
BOARD
SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY
HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION
3.	6/13/22	PB MEETING
4.	6/14/22	NYSDOT REVS.
5.	6/27/22	PB SUBMISSION

AM JOB NO.

EROSION
CONTROL PLAN

DATE ISSUED:
05/02/22

L401

NYS DOT WORK ZONE GENERAL NOTES

- GENERAL**
1. THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 618 OF THE STANDARD SPECIFICATIONS AND THE WORK ZONE TRAFFIC DETAILS IN THE PLANS AND PROPOSAL OR ADOBE.
 2. FOR ALL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREA NOT SPECIFIED IN THE PROPOSAL, THE PROVISIONS OF THE MUTCD AND THE NEW YORK STATE SUPPLEMENT, INCLUDING ALL APPLICABLE REVISIONS, SHALL APPLY. THE STANDARDS OF APPLICATIONS NOTED THEREIN AND ON THE PROPOSAL ARE TO BE CONSIDERED MINIMAL STANDARDS. WHERE OPTIONS EXIST FOR SIGN SHAPE, THE DIAMOND SHAPE SHALL BE USED.
 3. PRIOR TO ANY WORK ZONE SET-UP THE ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF ALL SIGNS, TRAFFIC CONTROL DEVICES AND WORK ZONE TRAFFIC CONTROL DEVICES.
 4. PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETE. THIS INCLUDES BUT IS NOT LIMITED TO: ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.), FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.
 5. PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL (WZTC) PLAN OR MODIFICATIONS TO THE 618 STANDARD SHEETS SHALL BE PROVIDED TO THE ENGINEER FOR THE REVIEW AND APPROVAL BY THE REGIONAL TRAFFIC ENGINEER PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH REVISIONS OR MODIFICATIONS. THE CONTRACTOR SHALL NOT IMPLEMENT THE PROPOSED REVISIONS WITHOUT APPROVAL FROM THE REGIONAL TRAFFIC ENGINEER WHEN APPLICABLE.
 6. ANY AND ALL WORK RELATED TO WORK ZONE TRAFFIC CONTROL IS CONSIDERED SKILLED AND SPECIALIZED WORK. ALL WORKERS ENGAGED IN WORK ZONE TRAFFIC CONTROL WORK SHALL HAVE SUPERVISOR SIGNATURE TO SATISFACTORILY PERFORM IT. IDENTIFICATION OF EACH WORKER, ALONG WITH DOCUMENTATION OF EXPERIENCE, SHALL BE PROVIDED TO THE ENGINEER PRIOR TO THE WORKER ENGAGING IN WORK ZONE TRAFFIC CONTROL WORK. THE TRAFFIC CONTROL SUPERVISOR SHALL BE IN COMPLIANCE WITH SECTION 618-3.20 OF THE STANDARD SPECIFICATIONS. DETERMINATION OF COMPETENCY AND DISCHARGING OF INDIVIDUALS SHALL BE AS PER SECTION 105-02 OF THE STANDARD SPECIFICATION.

LANE AND RAMP CLOSURES

1. THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES IN EACH DIRECTION ARE AVAILABLE WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN.
2. NO WORK REQUIRING THE CLOSING OF LANES, RAMPS OR SHOULDERS SHALL BE PERMITTED ON THE FOLLOWING HOLIDAYS:

6:00 AM FRIDAY, SEPTEMBER 3, 2021 THRU 6:00 AM TUESDAY, SEPTEMBER 1, 2021 - (LABOR DAY HOLIDAY)
6:00 AM WEDNESDAY, NOVEMBER 24, 2021 THRU 6:00 AM MONDAY, NOVEMBER 29, 2021 - (THANKSGIVING HOLIDAY)
6:00 AM THURSDAY, DECEMBER 23, 2021 THRU 6:00 AM MONDAY, DECEMBER 27, 2021 - (CHRISTMAS HOLIDAY)
6:00 AM THURSDAY, DECEMBER 30, 2021 THRU 6:00 AM MONDAY, JANUARY 3, 2022 - (NEW YEAR'S HOLIDAY)
6:00 AM THURSDAY, DECEMBER 30, 2021 THRU 6:00 AM MONDAY, JANUARY 3, 2022 - (NEW YEAR'S HOLIDAY)
6:00 AM FRIDAY, MAY 21, 2022 THRU 6:00 AM TUESDAY, MAY 31, 2022 - (MEMORIAL DAY HOLIDAY)
6:00 AM FRIDAY, JULY 1, 2022 THRU 6:00 AM TUESDAY, JULY 5, 2022 - (JULY 4TH HOLIDAY)
6:00 AM FRIDAY, SEPTEMBER 2, 2022 THRU 6:00 AM TUESDAY, SEPTEMBER 6, 2022 - (LABOR DAY HOLIDAY)
6:00 AM WEDNESDAY, NOVEMBER 23, 2022 THRU 6:00 AM MONDAY, NOVEMBER 28, 2022 - (THANKSGIVING HOLIDAY)
6:00 AM FRIDAY, DECEMBER 23, 2022 THRU 6:00 AM TUESDAY, DECEMBER 27, 2022 - (CHRISTMAS HOLIDAY)
6:00 AM FRIDAY, DECEMBER 30, 2022 THRU 6:00 AM TUESDAY, JANUARY 3, 2023 - (NEW YEAR'S HOLIDAY)

3. IF, IN THE OPINION OF THE ENGINEER, LANE CLOSURES ARE CREATING SIGNIFICANT DELAYS TO TRAFFIC OR ARE CREATING A SAFETY CONCERN DUE TO SLOUED OR STOPPED TRAFFIC, AFFECTED LANE CLOSURES SHALL BE REMOVED AND THE ROADWAY OPENED TO TRAFFIC AS DIRECTED BY THE ENGINEER.
4. UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER OR SHOWN IN THE WZTC PLANS, THE MINIMUM LANE WIDTH FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: 11 FEET FOR FREEWAYS AND/OR EXPRESSWAYS AND 10 FEET FOR ALL OTHER TYPES OF ROADWAYS.

5. WORK ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME ON DIVIDED HIGHWAYS.
6. WORK ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME ON UNDIVIDED HIGHWAYS.
7. DAILY CLOSURES MAY OCCUR OFF OF LONG-TERM CLOSURES AND SHALL BE SUBJECT TO DAILY CLOSURE RESTRICTIONS.
8. PEAK HOUR RESTRICTION: THERE SHALL BE NO LANE CLOSURE DURING THE AM (6:00-8:00) OR PM (4:00-6:00)

WORK AREA COORDINATION

1. WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY UTILITY WORK, SUBCONTRACTOR WORK, PUBLIC MAINTENANCE OPERATIONS OR OTHER CONSTRUCTION ACTIVITIES IN THE AREA TO ENSURE THAT THERE ARE NO WORK ZONE TRAFFIC CONTROL, CONFLICTS, SIGNS, AND LANE CONTINUITY, AND THAT WORK ZONE TRAFFIC CONTROL IS PER STANDARDS.
2. ALL VEHICLES, EQUIPMENT, WORKERS AND ACTIVITIES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME.

CHANNELIZING DEVICES

1. ALL CHANNELIZING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2 FT OF CLEARANCE TO THE TRAVELED WAY UNLESS OTHERWISE SHOWN ON THE PLANS. WHERE POSSIBLE, A LATERAL BUFFER SPACED OF 2 FEET MINIMUM SHOULD BE PROVIDED BETWEEN THE WORK SPACE AND THE LINE OFF DELINEATION DEVICES.
2. LONGITUDINAL SPACING SHALL BE 40 FEET FOR POSTED SPEED LIMITS OVER 40 MPH AND 20 FEET FOR SPEED LIMITS 35 MPH OR LESS. THROUGHOUT THE WORK ZONE, REDUCED SPACING MAY BE REQUIRED AS SHOWN IN THE PLANS, SPECIFICATIONS OR ADOBE. INTERSECTIONS AND DRIVEWAYS SHALL BE CHANNELIZED AT 5 FT SPACING.
3. WHEN CLOSING A ROADWAY, TYPE III BARRICADES SHALL BE PLACED CONTINUOUSLY FROM EDGE OF CURB/SHOULDER TO EDGE OF CURB/SHOULDER, COMPLETELY CLOSING THE ROADWAY. BARRICADES TO THE RIGHT OF THE ROADWAY CENTERLINE SHALL BE STRIPPED DOWNWARD TO THE LEFT AND BARRICADES TO THE LEFT OF THE ROADWAY CENTERLINE SHALL BE STRIPPED DOWNWARD TO THE RIGHT. FOR OVERNIGHT USE, EACH BARRICADE SHALL BE EQUIPPED WITH "TYPE A" LIGHTING. PVC BARRICADES SHALL HAVE THE BATTERY PACKS LOCATED AT GROUND LEVEL. WHEN CLOSING A ROADWAY THROUGH TRAFFIC, TYPE III BARRICADES SHALL BE STRIPPED DOWNWARD TO THE SIDE LOCAL TRAFFIC IS TO PASS.
4. DRUMS OR VERTICAL PANELS (8" x 36" OR 12" x 24") SHALL BE USED DURING THE HOURS OF DARKNESS. "TYPE B" LIGHTS SHALL BE REQUIRED ON THE FIRST DEVICE AND ON THE FIRST DEVICE AFTER EACH INTERSECTION.
5. STANDARD CONES AND TUBULAR MARKERS SHALL NOT BE USED FOR CHANNELIZING AND DELINEATION DURING THE HOURS OF DARKNESS, WHICH IS DEFINED AS THE PERIOD BETWEEN SUNSET AND SUNRISE.
6. THE COST OF ANY DELINEATION AND GUIDING DEVICES (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.

SHOULDER AND BARRIER VEHICLES

1. THE SHOULDER AND BARRIER VEHICLES SHALL BE PROVIDED AS PER TABLES NY1-A, NY1-B AND LOCATED AS PER TABLES NY2-A AND NY2-B AS APPROPRIATE. IF THE WORK SPACE MOVES WITHIN A STATIONARY LANE OR SHOULDER CLOSURE, SHADOW OR BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY.
2. IF A SHADOW AND BARRIER VEHICLE SHALL BE EQUIPPED WITH AN ARROW PANEL WHICH SHALL OPERATE IN THE "CAUTION" MODE, AND WHEN IN USE ON A BARRIER VEHICLE PER SECTION 725-15 OF THE STANDARD SPECIFICATIONS.
3. PAYMENT FOR BARRIER VEHICLES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.

SHOULDER BACK-UP

1. UNTIL SUCH TIME AS THE SHOULDER BACK-UP MATERIAL IS PLACED, ANY DROP-OFF OF 2 INCHES OR MORE SHALL BE PROTECTED AS PER SECTION 618.3.22K OF THE STANDARD SPECIFICATIONS. WHEN A "SHOULDER DROP-OFF" SIGNS SHALL BE THE ONLY ONES PERMITTED. IN THE EVENT THAT SOLID WHITE EDGE OF PAVEMENT LINES ARE NOT INSTALLED, THE SHOULDER SHALL BE CLOSED IN ACCORDANCE WITH THE SHOULDER CLOSURE TRAFFIC CONTROL PLAN. FAILURE TO COMPLY WITH THE INSTALLATION OF THE SOLID WHITE EDGE LINE WILL RESULT IN THE WITHHOLDING OF ONE DAY'S PAYMENT FOR ITEM 618.01, AS PER SECTION 618-3.20 OF THE STANDARD SPECIFICATIONS TABLE 618-6 FOR EACH DAY THE EDGE LINES ARE NOT IN PLACE.

SIGNS

1. BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED.
2. WHERE SHOULDER WIDTHS ARE LIMITED AND SIGNS CANNOT BE ERECTED BEYOND THE SHOULDER, TEMPORARY SIGNS MAY NEED TO BE MOUNTED ON CONCRETE MEDIAN BARRIERS OR BRIDGE PARAPETS, ETC. PRIOR TO ERECTING THOSE SIGNS THE CONTRACTOR SHALL PROVIDE MOUNTING DETAILS TO AND RECEIVE APPROVAL FROM THE ENGINEER.
3. SIGNS SHALL NOT ENCRoACH MORE THAN 4 INCHES INTO SHOULDERS USED BY PEDESTRIANS OR BICYCLES.
4. ANY CONSTRUCTION SIGNS DEEMED NECESSARY BY THE ENGINEER AND ARE NOT IN THE PLAN OR PROPOSAL, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
5. ALL CONSTRUCTION SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET ABOVE THE EDGE OF THE TRAVEL LANE.
6. ALL SIGNS NECESSARY FOR THE WORK ZONE TRAFFIC CONTROL (INCLUDING RELOCATIONS AND/OR MODIFICATIONS AND/OR RESTORATION OF EXISTING) AS NOTED IN THE PLANS, STANDARD SPECIFICATIONS, MUTCD, NEW YORK STATE SUPPLEMENT OR ADOBE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.

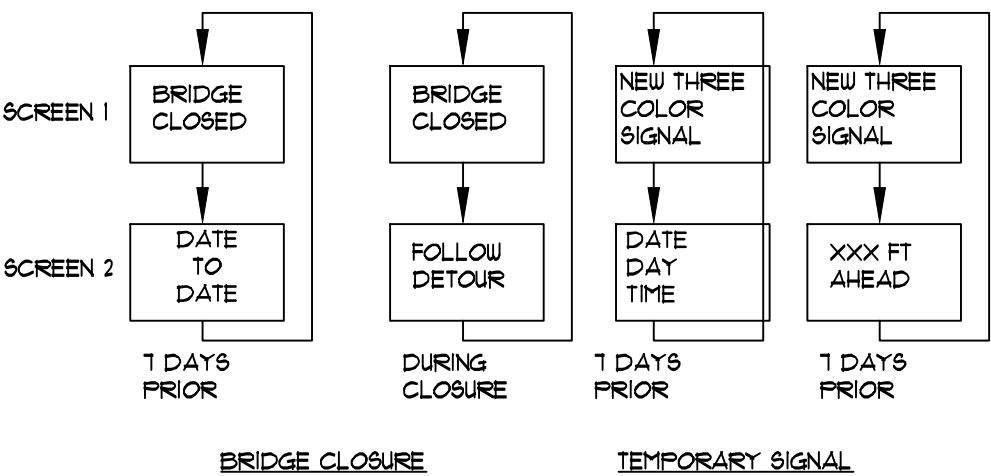
ACCESS

1. THE CONTRACTOR SHALL ENSURE THAT ACTIVE LANES OF TRAFFIC ON FREEWAYS ARE NOT CROSSED BY PEDESTRIAN WORKERS, FOR ALL OTHER HIGHWAYS, THE CONTRACTOR SHALL ENSURE THAT PEDESTRIAN WORKERS DO NOT ENTER ACTIVE LANES OF TRAFFIC ONLY AT PROPERLY MARKED OR UNMARKED CROSSEWALKS AND/OR DEDICATED PEDESTRIAN WALKWAYS. IT IS REQUIRED THAT THE PROJECT SAFETY AND HEALTH PLAN ADDRESS ACCESS TO EACH WORK AND STAGING AREA.
2. WHERE IT IS FEASIBLE, VEHICLES AND EQUIPMENT USED FOR WORK AND TRANSPORTING OF WORKERS TO/FROM WORK SITE SHALL ENTER AND LEAVE THE AREA CLOSED BY CHANNELIZING DEVICES WITHIN THE TERMINATION AREA OF THE TEMPORARY TRAFFIC CONTROL ZONE, WHERE SUCH ACCESS WITHIN THE TERMINATIONS AREA IS NOT FEASIBLE, OTHER AREAS FOR ENTRY AND EXIT SHALL BE DETERMINED AND INCLUDED IN THE PROJECT SAFETY AND HEALTH PLAN, INCLUDING ILLUSTRATED EXAMPLES (TYPICALS) TO CLEARLY SHOW THE TEMPORARY TRAFFIC CONTROL ELEMENTS THAT WILL BE PROVIDED.

VARIABLE MESSAGE SIGN

1. THE USE OF PORTABLE VARIABLE MESSAGE SIGNS (PVMS) IS INTENDED TO ADVISE TRAFFIC OF UPCOMING AND ACTUAL CHANGES TO REGULAR TRAFFIC PATTERNS.
2. THE PVMS SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE WORK ZONE TRAFFIC CONTROL (WZTC) PLANS AND OTHER LOCATIONS SPECIFIED BY THE ENGINEER. THE PVMS SHALL BE PLACED SEVEN (7) DAYS BEFORE ANY BRIDGE/ROAD CLOSURE AND/OR ANY TEMPORARY SIGNAL PLACEMENT IS TO BEGIN AND WILL REMAIN IN PLACE UNTIL ALL WORK WITHIN A DESIGNATED WZTC PHASE HAS BEEN COMPLETED. SEVEN (7) DAYS PRIOR TO A CLOSURE TAKING PLACE, AND/OR ANY TEMPORARY SIGNAL PLACEMENT, THE INITIAL MESSAGE SHOWN IN THE CONTRACT PLANS SHALL BE DISPLAYED. ONCE CLOSURE HAS TAKEN PLACE AND/OR TEMPORARY SIGNAL IS ACTIVATED, THE PVMS SHALL REMAIN ON FOR THE DURATION OF THE CLOSURE AND/OR ACTIVATED TEMPORARY SIGNAL DISPLAYED WITH THE MESSAGE SHOWN IN THE PLANS.
3. PVMS UNITS TO BE LOCATED WITHIN SHOULDER CLOSURE PER STANDARD SHEET 618-22 WHEN LOCATED WITHIN CLEAR ZONE.
4. PVMS UNITS LOCATED BEHIND GUIDE RAIL SHALL NOT BE LOCATED WITHIN RAIL DEFLECTION DISTANCE. SEE SECTION 618 OF THE STANDARD SPECIFICATIONS.
5. PVMS UNITS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 618 OF THE STANDARD SPECIFICATION AND ITEM 618.10XX.
6. SEE DRAWING NOS. XX-XX FOR PORTABLE VARIABLE MESSAGE SIGN (PVMS) LOCATIONS.
7. THE CONTRACTOR SHALL PROVIDE THE EIC WITH THE MODEL, MANUFACTURER DATE AND MANUFACTURER OF WHICH THE NATIONAL TRANSPORTATION COMMUNICATION FOR ITS PROTOCOL (NTCP) COMPLIANT PVMS THE CONTRACTOR PLANS TO USE FROM THE DEPARTMENTS "APPROVED" LIST. THE PVMS WILL NEED TO ACCEPT ANY COMMUNICATIONS FROM THE NYS DOT REGIONAL TRANSPORTATION MANAGEMENT CENTER (RTMC) IN SYRACUSE, NY.

NOTE TO DESIGNER: THE FOLLOWING MESSAGE AND DURATIONS ARE EXAMPLES OF WHAT SHOULD BE SHOWN ON THE PLANS AT THE PVMS LOCATIONS.



PAVEMENT MARKINGS

1. PAVEMENT MARKINGS TO BE DEACTIVATED SHALL BE COVERED WITH A TAPE DESIGNED FOR PURPOSE. THE COST OF COVERING EXISTING PAVEMENT MARKING LINES SHALL BE PAID UNDER ITEM 618.0203. LETTER/SYMBOL MARKINGS SHALL BE PAID UNDER ITEM 618.0204.
2. THE CONTRACTOR SHALL PROVIDE PAVEMENT MARKINGS AT ALL TIMES, ON ALL PAVEMENT, WHETHER EXISTING, TEMPORARY OR NEW, UNTIL PERMANENT MARKINGS ARE INSTALLED OR RESTORED. THIS SHALL INCLUDE AT ALL LOCATIONS, EDGE LINES, CENTERLINE, LANE LINES (SOLID OR BROKEN), CHANNELIZING LINES, DOTTED LINES, PLUS ANY MARKINGS ORDERED BY THE ENGINEER. ALL MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MUTCD AND NEW YORK STATE SUPPLEMENT AND SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES. THESE MARKINGS SHALL BE PAID FOR AS SHOWN IN THE CONTRACT PLANS.
3. TEMPORARY OR INTERIM PAVEMENT MARKINGS COMPRISED OF TRAFFIC MARKING PAINT SHALL BE REPAINTED AT NO ADDITIONAL COST WHEN 10% OF THE UNDERLYING PAVEMENT IS VISIBLE THROUGH THE PAVEMENT MARKING OR WHEN THE ENGINEER DEEMS REFLECTIVITY IS INADEQUATE.
4. PAVEMENT MARKINGS TO BE MAINTAINED OVER THE WINTER SHALL BE PERMANENT MARKINGS, PAID UNDER ITEM 618.03, REFLECTORIZED PAINT MARKINGS.

PUBLIC INGRESS AND EGRESS

1. THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS, AS SHOWN IN THE PLANS AND ADOBE TO THEIR DRIVEWAYS AND SHALL MAINTAIN THEM THROUGH ALL PHASE WORK AREAS AND SHALL DELINEATE THEM BY MEANS OF SIGNS AND CHANNELIZING DEVICES. ADOBE, THE COST FOR SIGNS AND OTHER WORK ZONE TRAFFIC CONTROL (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
2. WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH PLANS TO THE ENGINEER FOR APPROVAL. PROPERTY OWNERS/OCCUPANTS SHALL HAVE 24 HOURS NOTICE OF ANY CHANGES. COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
3. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AND FLAGGERS EMPLOYED AT APPROPRIATE LOCATIONS AND POSITIONS INVOLVED SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.

FLAGGERS

1. STOP/BLANK PADDLES SHALL BE USED FOR FLAGGING AND SHALL BE FABRICATED WITH ASTM TYPE IX SHEETING, SHALL BE A MINIMUM OF 24 INCHES AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD SPECIFICATION 179-29. THE COST OF THE PADDLES AND ALL FLAGGERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
2. FLAGGERS SHALL NOT POSITION THEMSELVES DIRECTLY IN THE PATH OF ONCOMING TRAFFIC. THE FLAGGER SHALL STAND EITHER ON THE SHOULDER ADJACENT TO THE TRAFFIC BEING CONTROLLED OR IN THE CLOSED/CHANNELIZED LANE. AT ALL TIMES THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH A CLEAR ESCAPE PATH FREE OF PARKED VEHICLES, EQUIPMENT OR OTHER OBSTACLES.
3. THE CONTRACTOR SHALL PROVIDE FLAGGERS WHERE SIGHT DISTANCE IS IMPAIRED BY THE OPERATIONS OR ANY OTHER SITUATION DUE TO THE PROJECT, ADOBE.
4. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF THE ENGINEER DEEMS IT NECESSARY. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
5. FLAGGERS SHALL USE THE FREE HAND FOR EMPHASIS AS SHOWN IN CHAPTER 6E OF THE MUTCD AND THE NEW YORK STATE SUPPLEMENT. UNDER CERTAIN GEOMETRIC AND TRAFFIC SITUATIONS, MORE THAN ONE FLAGGER MAY BE REQUIRED. EACH FLAGGER SHALL CONTROL NO MORE THAN AN APPROACH OF TRAFFIC. MULTIPLE LANE APPROACHES SHALL BE REDUCED TO A SINGLE LANE PRIOR TO THE FLAGGER STATION.
6. FLAGGER STATIONS SHOULD BE VISIBLE FAR ENOUGH AHEAD TO ALLOW ALL VEHICLES TO STOP AS PER TABLE 6A-2 OF THE MUTCD. FLAGGERS SHALL BE EQUIPPED WITH AN EMERGENCY AIRHORN TO ALERT WORKERS TO AN ERRANT VEHICLE OR ANY OTHER DANGEROUS SITUATION.
7. PRIOR TO USING A FLAGGER, THE CONTRACTOR SHALL PROVIDE THE DOCUMENTATION OF THE FLAGGER TRAINING, PER SECTION 618-3.02 OF THE STANDARD SPECIFICATION.
8. WHEN A PEDESTRIAN APPROACHES A FLAGGER STATION, THE FLAGGER SHALL STOP TRAFFIC AND DIRECT THE PEDESTRIAN TO A SAFE ROUTE THROUGH THE WORK AREA. FLAGGERS SHALL COORDINATE THE FLAGGING OF THE WORK ZONE TO ENSURE PEDESTRIANS CAN SAFELY PROCEED THROUGH THE WORK AREA. IF THERE IS MORE THAN ONE OCCASIONAL PEDESTRIAN WITHIN THE PROJECT LIMITS, REFER TO THE SITE SPECIFIC PEDESTRIAN WZTC PLAN.

PEDESTRIANS

1. WHENEVER FEASIBLE, MAINTAIN SAFE PEDESTRIAN ACCESS ON EXISTING WALKWAYS.
2. IF A TEMPORARY PEDESTRIAN WALKWAY IS LESS THAN 5 FEET WIDE AND OVER 200 FEET IN LENGTH, THE CONTRACTOR SHALL FURNISH A 5 FT AREA WHERE WHEELCHAIRS CAN PASS EVERY 200 FEET. THESE WALKWAYS SHALL BE A MINIMUM OF 4 FEET UNLESS OTHERWISE SHOWN ON THE PLANS.
3. WHERE IT IS DETERMINED BY THE ENGINEER THAT THERE IS A LIKELIHOOD OF PEDESTRIANS LEAVING THE DEDICATED WALKWAY TO CROSS THE ACTIVE LANE OF TRAFFIC, THE CHANNELIZING DEVICES SHALL BE SUPPLEMENTED WITH A R9-38 "NO PEDESTRIAN CROSSING" SYMBOL SIGN TO RESTRICT THE PEDESTRIAN MOVEMENT.

WORK ZONE TRAFFIC CONTROL NOTIFICATION REQUIREMENTS

1. REGION 3 HAS A WORK ZONE TRAFFIC CONTROL (WZTC) NOTIFICATION POLICY WHICH REQUIRES ENGINEERS/CONTRACTOR TO NOTIFY THE REGIONAL TRANSPORTATION MANAGEMENT CENTER (RTMC) PRIOR TO ALLOWING A CONTRACTOR TO IMPLEMENT WORK ZONE TRAFFIC CONTROL ACTIVITIES WITHIN THE HIGHWAY RIGHT-OF-WAY. WORK ZONE NOTIFICATION IS REQUIRED FOR THE FOLLOWING:
2. FREEWAYS AND EXPRESSWAYS: ALL LANE, SHOULDER, ROAD, RAMP OR BRIDGE CLOSURES. (THIS INCLUDES MOBILE OPERATIONS WHICH OCCUPY THE LANE OR SHOULDERS.)
3. ALL OTHER STATE HIGHWAYS: ALL LANE CLOSURES WHOSE DURATION WILL BE GREATER THAN 2 HOURS AND ALL ROAD/BRIDGE CLOSURES.
4. THE CONTRACTOR SHALL REPORT PROPOSED WZTC ACTIVITIES NOTED ABOVE TO THE RTMC BY NOON OF THE BUSINESS DAY (IE MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS) PRECEDING THE PROPOSED WZTC ACTIVITY. FAILURE TO DO SO WILL RESULT IN DISAPPROVAL TO PERFORM THE UNREPORTED WZTC ACTIVITY UNTIL THE ABOVE NOTIFICATIONS REQUIREMENTS ARE SATISFIED.
5. NO PLANNED WZTC ACTIVITY SHALL BE IMPLEMENTED WITHOUT FIRST RECEIVING CLEARANCE FROM THE RTMC.

EMERGENCY ACCESS

1. DURING WORK OPERATIONS ON OR NEAR SIDE ROADS AND DRIVEWAYS, THE CONTRACTOR SHALL MAINTAIN ACCESS TO THOSE SIDE ROADS AND DRIVEWAYS FOR EMERGENCY VEHICLES.

OVERSIZE VEHICLE RESTRICTIONS

1. THE CONTRACTOR SHALL REPORT ANY RESTRICTION (AS DEFINED BELOW) ON STATE HIGHWAYS, RAMPS OR BRIDGES AT LEAST SIX (6) BUSINESS DAYS (IE MONDAY THROUGH FRIDAY EXCLUDING HOLIDAY) IN ADVANCE OF THE RESTRICTION SIX (6) DAYS LEAD TIME IS NECESSARY TO PROVIDE THE RTMC ADEQUATE TIME TO PREVENT ISSUANCE OF SPECIAL HAULING PERMITS THAT WOULD ROUTE OVERSIZE VEHICLES OVER THE RESTRICTED SECTION OF THIS CONTRACT. RESTRICTIONS SHALL BE DEFINED AS ONE OR MORE OF THE FOLLOWING:
 - a. A COMPLETE CLOSURE OF A HIGHWAY, RAMP OR BRIDGE.
 - b. THE INSTALLATION OF BARRIER OR CHANNELIZING DEVICES THAT RESULT IN AN UNOBSTRUCTED WIDTH LESS THAN 18 FT ALONG A HIGHWAY, RAMP OR BRIDGE.
 - c. SUITABLE DRIVING SURFACES OF LESS THAN 18 FT IN WIDTH.
 - d. AVAILABLE VERTICAL CLEARANCE ABOVE THE HIGHWAY IS LESS THAN 14 FT IN HEIGHT.
 - e. WORK WOULD LIMIT VEHICLE LENGTH (IE TURNING ABILITY).
 - f. CHANGING THE LOAD CAPACITY OF A HIGHWAY, RAMP OR BRIDGE.
2. NO PLANNED WORK ACTIVITY RESULTING IN A RESTRICTION SHALL BE IMPLEMENTED WITHOUT FIRST RECEIVING CLEARANCE FROM THE EIC.
3. THE COST OF THIS RESTRICTION REPORTING/NOTIFICATION SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 618.01, BASIC WORK ZONE TRAFFIC CONTROL.
4. THE CONTRACTOR SHALL GIVE VERBAL NOTIFICATION AT LEAST SEVEN (7) BUSINESS DAYS (IE MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS) PRIOR TO AND AT THE END OF A RESTRICTION ON ANY ROADWAY TO THE ONONDAGA COUNTY EMERGENCY MANAGEMENT CENTER (315) 435-2525.

SIGNALIZED INTERSECTIONS

1. WHEN CONSTRUCTION OPERATIONS EFFECT SIGNALIZED INTERSECTIONS, THE TRAFFIC SIGNAL SHALL BE TURNED OFF BEFORE PROCEEDING WITH THE FLAGGING OPERATION, AND ANY EXISTING W-3 SIGNS COVERED.
2. THE CONTRACTOR SHALL OBTAIN A POLICE PANEL KEY FROM, AND RETURN IT TO, THE REGIONAL 3 SIGNAL CREW.
3. THE CONTRACTOR MUST RETURN THE SIGNAL TO 3-COLOR OPERATION AT THE END OF THE WORK OPERATION. IF THE SIGNAL DOES NOT RETURN TO 3-COLOR OPERATION, THE CONTRACTOR SHALL NOTIFY THE REGION 3 SIGNAL CREW AND MUST CONTINUE FLAGGING UNTIL THE SIGNAL RETURNS TO 3-COLOR OPERATION.
4. THE NYS DOT SIGNAL CREW EIC CAN BE REACHED AT (315) 428-4064 or (315) 428-2131.

MISCELLANEOUS

1. THE PERMITTEE SHALL BE AWARE THAT THE WORK ZONE TRAFFIC CONTROL IS A VERY CRITICAL ITEM OF THE PERMIT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 618 WORK ZONE TRAFFIC CONTROL OF THE STANDARD SPECIFICATIONS, THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT. THE PERMITTEE SHALL BE RESPONSIBLE FOR WORK ZONE TRAFFIC CONTROL AT ALL TIMES FOR THE DURATION OF THE PERMITTED WORK.
2. ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS, DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY. SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBSCURED FROM SIGHT. ALL SIGN NUMBERS REFER TO THE 2009 EDITIONS OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK SUPPLEMENT.
3. PEDESTRIAN ACCOMMODATIONS SHALL BE MAINTAINED FOR THE DURATION OF THE PROPOSED WORK. ANY DISTURBED AREAS WITH THE STATE RIGHT-OF-WAY SHALL BE ADEQUATELY FENCED TO PREVENT PEDESTRIAN ACCESS WHEN THE CONTRACTORS OPERATIONS ARE SHUT DOWN.
4. MATERIALS, EQUIPMENT AND WORK VEHICLES SHALL NOT BE STORED OR PARKED WITHIN THE STATE RIGHT-OF-WAY BEFORE WORK BEGINS OR AFTER CONTRACTOR'S OPERATIONS ARE SHUT DOWN. STAGING AREAS OUTSIDE THE RIGHT-OF-WAY SHALL BE USED TO STOCKPILE ALL CONSTRUCTION MATERIALS. DURING WORKING HOURS, NO CONSTRUCTION MATERIAL MAY BE STORED OR PLACED ON THE ROADWAY OR ROADBED EXCEPT WITHIN A PROTECTED WORK AREA.
5. VEHICLES BELONGING TO THE PERMITTEE OR WORKERS SHALL NOT BE PARKED WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC, UNLESS THEY ARE PARKED WITHIN A PROTECTED WORK AREA. DURING NON WORKING HOURS, CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITH 30 FEET OF THE EDGE OF PAVEMENT.
6. W20-1A "FLAGGER" SIGNS SHALL BE USED WHENEVER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGNS SHALL BE PROMPTLY REMOVED, COVERED, OR FACED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES. ALL FLAGGING STATIONS AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM VISIBILITY.
7. NO DROP OFF GREATER THAN SIX INCHES SHALL BE LEFT OVERNIGHT WITHIN 30 FEET OF THE EDGE OF PAVEMENT. DROP-OFFS LESS THAN SIX INCHES WILL BE PERMITTED IF PROPER DELINEATION AND SIGNING IS PROVIDED, AND PRIOR PERMISSION IS GRANTED IN WRITING BY A REPRESENTATIVE OF THE DEPARTMENT. A DROP OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 6 SLOPE OR FLATTER.
8. CARE SHALL BE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO THE EXISTING PAVEMENT/SHOULDER/CURBS AREAS AS A RESULT OF CONSTRUCTION EQUIPMENT MOVEMENT.
9. THE PERMITTEE MAY SUBMIT REVISIONS TO THE PLAN FOR APPROVAL, BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE REGIONAL DIRECTOR OR HIS DESIGNEE.

NYS DOT STANDARD GENERAL PLAN NOTES

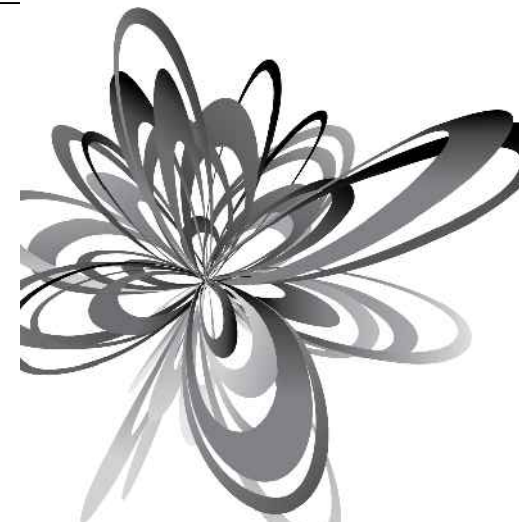
1. THE ROADWAY SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
2. ROADSIDE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
3. MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.
4. WORK ZONE TRAFFIC CONTROL SHALL COMPLY WITH THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT, AND SHALL BE IN ACCORDANCE WITH THE NYS DOT CONTRACT OR HIGHWAY WORK PERMIT DOCUMENTS AND AS DEEMED NECESSARY BY THE NY'S ENGINEER IN CHARGE.
ONONDAGA EAST 315-458-1910 ONONDAGA WEST 315-612-8151 CORTLAND/TOMPKINS 607-756-1072 OSWEGO 315-563-3730 CATTAGUS/SENECA 315-539-3102
5. NOTIFY NEW YORK STATE DEPARTMENT OF TRANSPORTATION RESIDENT ENGINEER AT THE APPLICABLE RESIDENCY, THREE WORKING DAYS PRIOR TO WORKING IN THE STATE RIGHT-OF-WAY.
6. NOTIFY DIG SAFELY NEW YORK THREE WORKING DAYS PRIOR TO DIGGING, DRILLING OR BLASTING AT 1-800-962-7362, FOR A UTILITY STAKE-OUT.
7. ALL WORK COMPLETED AND MATERIALS USED WITHIN THE NYS RIGHT-OF-WAY SHALL BE COVERED BY AND IN CONFORMITY WITH THE NYS DEPARTMENT OF TRANSPORTATION MAY 1, 2008 SPECIFICATIONS BOOK AND ANY SUBSEQUENT ADDENDA ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION STANDARD SHEETS, EXCEPT AS MODIFIED IN THESE PLANS AND IN THE ITEMIZED PROPOSAL. METRIC UNITS MAY BE CONVERTED TO ENGLISH.

8. QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 402 OF THE STANDARD SPECIFICATIONS. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.

9. NO NIGHT WORK WILL BE ALLOWED UNLESS PRIOR APPROVAL IS GIVEN BY THE DEPARTMENT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC WILL BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.

10. HAZARDOUS WASTE NOTIFICATION - THE PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY IN ITS AS IS CONDITION. THE DEPARTMENT OF TRANSPORTATION MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREUNDER. SHOULD PERMITTEE FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE DEPARTMENT OF TRANSPORTATION SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE DEPARTMENT WILL PERMIT THE PERMITTEE TO REMOVE, MODIFY OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURE FEATURE OR IMPEDIMENT IF SUCH IS DONE IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS PRE-APPROVED BY THE DEPARTMENT OF TRANSPORTATION. SHOULD PERMITTEE DETERMINE THAT SUCH UNFORESEEN UNDERGROUND IMPEDIMENT RENDERS PERMITTED WORK AS AUTHORIZED BY THIS PERMIT UNFEASIBLE, PERMITTEE SHALL HAVE THE OPTION OF RESTORING THE HIGHWAY TO ITS ORIGINAL CONDITION AND NOT PERFORMING SUCH WORK.

11. OPEN CUTTING OF THE ROADWAY SHALL NOT BE ALLOWED UNLESS PERMISSION IS GRANTED IN WRITING BY THE REGIONAL TRAFFIC ENGINEER.



ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:



LANDSCAPE ARCHITECTURE & LAND PLANNING
6320 ELY ROAD, SUITE 209 EAST SYRACUSE, NEW YORK 13207
PHONE: (315) 445-7980 FAX: (315) 445-7981

SEAL:

PLANNING
BOARD
SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY
HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION
3.	6/13/22	PB MEETING
4.	6/14/22	NYS DOT REV.
5.	6/27/22	PB SUBMISSION

AM JOB NO.

NYS DOT WORK
NOTES

DATE ISSUED:

05/02/22

L402

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CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTER SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{2A}	REQUIRED ^{2A}	REQUIRED ^{2A}	REQUIRED ^{2A}
SHOULDER CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{2A}	REQUIRED ^{2A}	REQUIRED ^{2A}	REQUIRED ^{2A}

- [illegible]

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.)			
	BARRIER VEHICLES*			
	(18000 LBS.)		(24000 LBS.)	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
> 55	100 FT.	200 FT.	100 FT.	200 FT.
45 - 55	100 FT.	200 FT.	85 FT.	165 FT.
< 45	85 FT.	165 FT.	50 FT.	100 FT.

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.)			
	SHADOW VEHICLES**			
	(18000 LBS.)		(24000 LBS.)	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
> 55	230 FT.	330 FT.	180 FT.	280 FT.
45 - 55	180 FT.	280 FT.	150 FT.	250 FT.
< 45	100 FT.	200 FT.	100 FT.	200 FT.

TYPE OF POSITIVE BARRIER	POSTED SPEED LIMIT				
	30 MPH	40 MPH	50 MPH	55 MPH	65 MPH
TEMPORARY CONCRETE BARRIER	8ft	11ft	14ft	16ft	20ft
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7ft	9ft	11ft	12ft	15ft

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
EXPRESSWAY / FREEWAY	1000	1500	2640	1 MILE	½ MILE

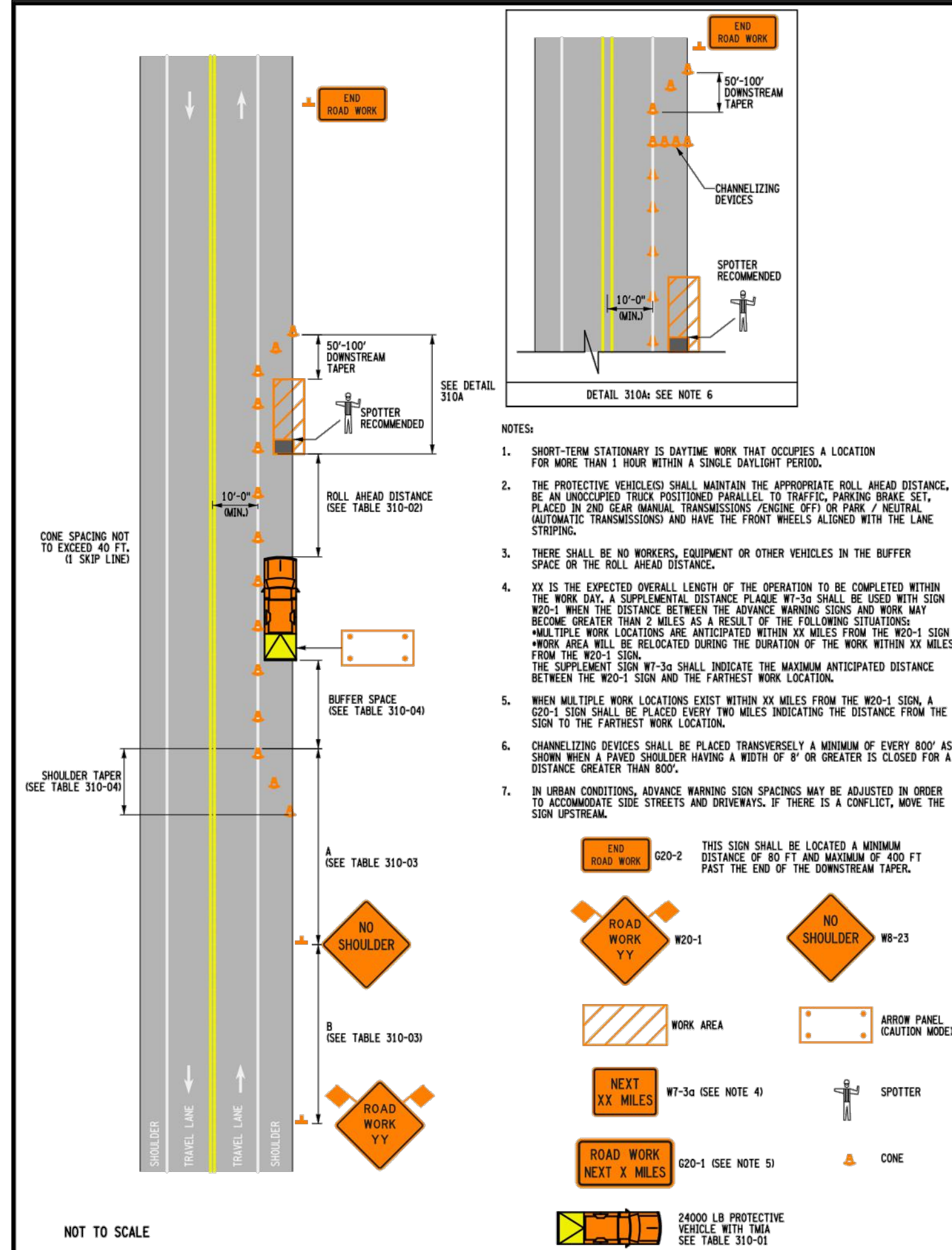
- * PRECONSTRUCTION POSTED SPEED LIMIT
- URBAN: MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA)
 - SIDEWAYS, BICYCLE WAY, CURBING, CLOSED DRAINAGE SYSTEMS,
 - DENSITY DENSITIES GREATER THAN 24 DRIVEWAYS PER MILE, MINOR
 - COMMERCIAL, OR ANY DENSITIES OF 10 DRIVEWAYS PER MILE OR
 - GREATER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGID WAY
 - CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE
 - SPEEDS OF 45 MPH OR LESS.
- RURAL: ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE
- CHARACTERISTICS.
- EXPRESSWAY: DIVIDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL
- CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS
- AT MAJOR CROSSROADS.
- FREWAYS/INTERSTATE: LOCAL OR INTER REGIONAL, HIGH-SPEED, DIVIDED,
- HIGH-VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.

WORK DURATION DEFINITIONS
LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.
INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

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WORK ZONE TRAFFIC CONTROL LEGEND	
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (CMS)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINAIRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED UP TO A LONG-TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
	U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES		
APPROVED SEPTEMBER 18, 2008	ISSUED UNDER EB 08-036	
/s/ DAVID J. CLEMENTS, P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY		619-11



LEGEND

P1: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER IF OR WHEN, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY

TW1: TW1A REQUIRED

NOTES:

1. THE EXPOSURE CONDITIONS ASSUMES THERE IS NO POSITIVE PROTECTION PRESENT
2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED

TABLE 310-02: ROLL AHEAD DISTANCE		
ROLL AHEAD DISTANCE (FT.)* OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3

ROAD TYPE	DISTANCE BETWEEN SIGNS		SIGN LEGEND	
	A (FT.)	B (FT.)	XX	YY
URBAN (≤ 30 MPH)	100	100	AHEAD	AHEAD
URBAN (35-40 MPH)	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH)	350	350	1000 FT.	AHEAD
RURAL	500	500	1500 FT.	1000 FT.

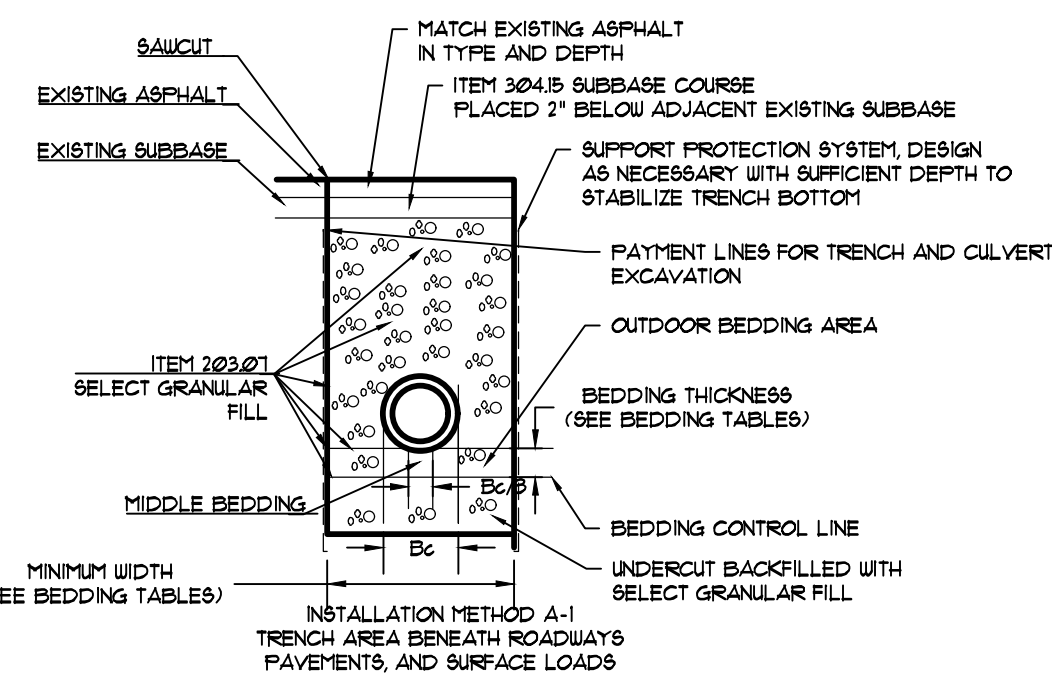
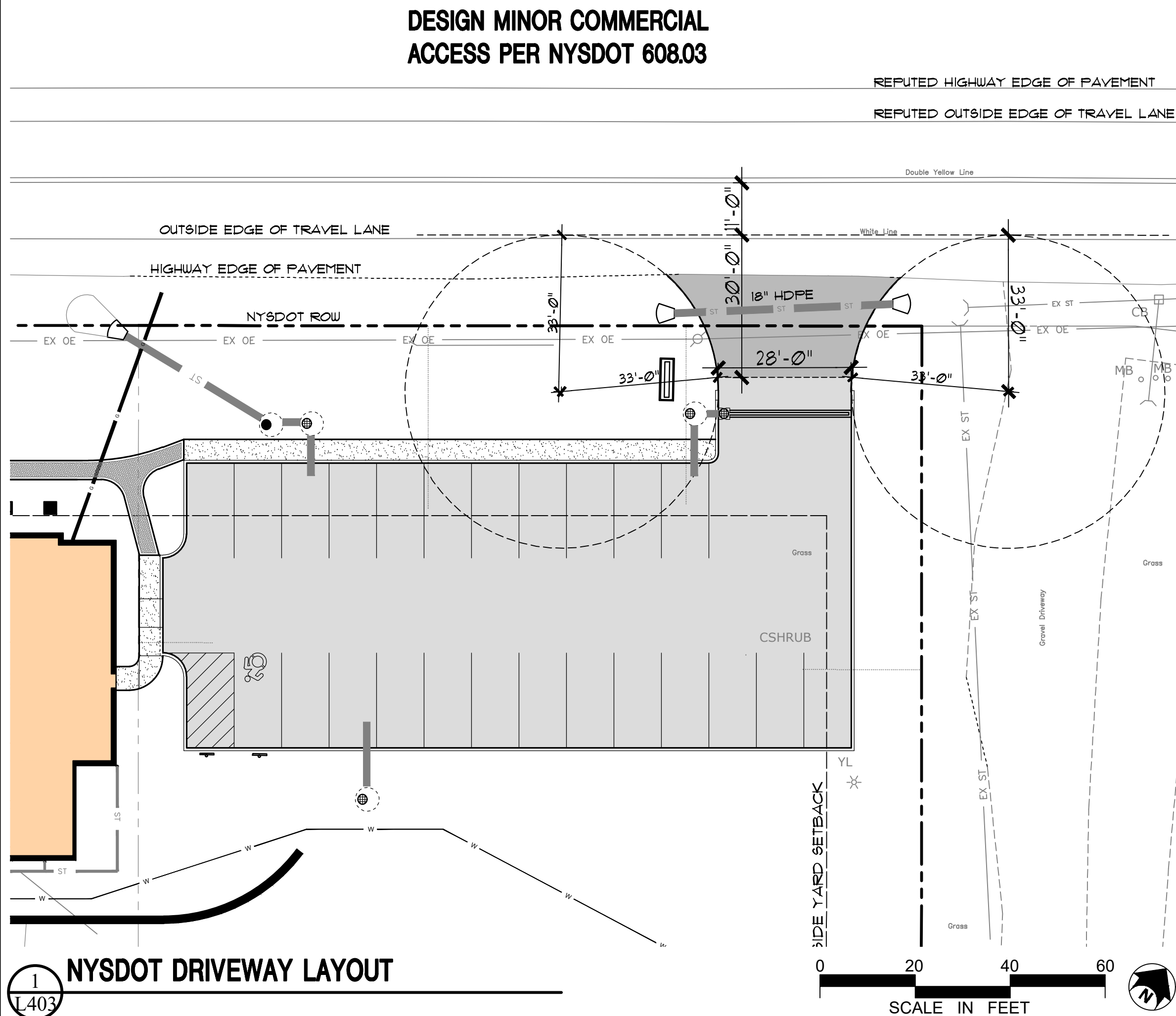
• PRECONSTRUCTION POSTED SPEED LIMIT

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE $\ell_{1/2}$ # OF SHOULDER LINES	TAPER LENGTH $\ell_{1/2}$ # OF SHOULDER LINES/ # OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH $L/3$ $\ell_{1/2}$ # OF SHOULDER LINES/ # OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. LATERAL SHIFT OF TRAFFIC FLOW PATH			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
25	105/4	120/3/4	120/3/4	120/3/4	40/1/2	40/1/2	40/1/2
30	155/4	120/3/4	160/4/5	200/5/6	40/1/2	40/1/2	40/1/2
35	250/6	200/5/6	240/6/7	280/7/8	40/1/2	40/1/2	40/1/2
40	305/8	280/7/8	320/8/9	320/8/9	40/1/2	80/2/3	80/2/3
45	360/10	400/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	600/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	660/15/16	680/17/18	80/2/3	120/3/4	160/4/5

SIGN	NON-FREEMAY	FREEMAY
G20-1	36x18	48x24
G20-2	36x18	48x24
W7-3a	24x18	36x30
W8-23	36x36	48x48
W20-1	36x36	48x48
WARNING FLAG	18x18	18x18

*FREEMAY SIZES MAY BE USED ON NON-FREEMAY, IF SPACE CONSTRAINTS DO NOT EXIST.

 NEW YORK STATE OF OPPORTUNITY.	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL NON-FREEWAY SHOULDER CLOSURE SHORT TERM OPERATION	
APPROVED DECEMBER 2, 2021 <i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM	ISSUED UNDER E1 21-028 619-310



THE BEDDING CONTROL LINE (BCL) IS A HORIZONTAL LINE LOCATED BELOW THE INVERT WHICH REPRESENTS THE BOTTOM ELEVATION FOR BEDDING MATERIAL PLACEMENT AND THE TOP ELEVATION OF UNDERCUT BACKFILL, WHERE REQUIRED. THE BCL IS ALSO USED FOR QUANTITY PAYMENT PURPOSES FOR "TRENCH AND CULVERT EXCAVATION" ITEMS, BEDDING MATERIAL PLACEMENT AND UNDERCUT MATERIAL PLACEMENT. THE LOCATION OF THE BCL AND THE ACTUAL BEDDING THICKNESS VARY WITH PIPE SIZE AND WALL THICKNESS. SEE BEDDING THICKNESS TABLE.

THE MINIMUM TRENCH WIDTH MAY BE ADJUSTED TO BC+ 6" OF CONTROLLED LOW STRENGTH MATERIAL ISLAND IS TO BE USED AS BACKFILL. SEE

MINIMUM WIDTH FOR ALL DRAINAGE STRUCTURES, MANHOLES, ETC. IS 24" OUTSIDE THE WALLS.

FOUNDATION TYPE	PIPE DIAMETER "D" OR SPAN ONLY	WIDTH
SOIL	24" OR LESS	Bc + 2' D OR Bc + 2' SPAN
	GREATER THAN 24"	Bc + 48"
ROCK	ALL SIZES	Bc + 24"

BEDDING THICKNESS TABLE													
FOUNDATION TYPE	PIPE DIAMETER (D) OR SPAN (L)	D ≤ 12"	12" < D ≤ 24"	24" < D ≤ 36"	36" < D ≤ 48"	48" < D ≤ 60"	60" < D ≤ 72"	72" < D ≤ 84"	84" < D ≤ 96"	96" < D ≤ 108"	108" < D ≤ 120"	120" < D ≤ 132"	132" < D ≤ 144"
SOIL	DISTANCE (N) INVERT TO BCL	5'	6'	7'	8'	9'	11'	12'	13'	14'	15'	16'	17'
	HINFLU THICKNESS	3"	3"	3"	3"	3"	3"	4"	5"	5"	6"	7"	8"
ROCK	DISTANCE (N) INVERT TO BCL	8'	9'	10'	11'	12'	14'	16'	18'	20'	25'	25'	27'
	HINFLU THICKNESS	6"	6"	6"	6"	6"	6"	8"	10"	10"	13"	13"	14"

TABLE VALUES ARE BASED ON WALL THICKNESS FOR CIRCULAR PIPE
FOR VERTICAL ELLIPTICAL PIPE AN INCREASE OF ALL TABLE VALUES BY 1" IS REQUIRED
FOR HORIZONTAL ELLIPTICAL PIPE:
A DEDUCTION OF 1" FROM TABLE VALUES IS ALLOWED FOR SPANS GREATER THAN 48'
A DEDUCTION OF 2" FROM TABLE VALUES IS ALLOWED FOR SPANS GREATER THAN 108'

SECTION

2
L403

NYS DOT ROW PIPE TRENCH
NOT TO SCALE

ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT



LANDSCAPE ARCHITECTURE & LAND PLANNING
6320 FLY ROAD, SUITE 109 EAST SYRACUSE, NEW YORK 13057
PHONE: (315) 445-7980 FAX: (315) 445-7981

SEAL:

**PLANNING
BOARD
SUBMISSION
6/1/2022**

**TEVILLE VETERINARY
HOSPITAL**
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION
3.	6/13/22	PB MEETING
4.	6/14/22	NYSDOT REV'S.
5.	6/27/22	PB SUBMISSION

AM JOB NO.

MPT PLAN

DATE ISSUED:

05/02/22

L403

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2/20/2017 3:08:13 PM



ASHLEY MCGRAW

25 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:
**KEPLINGER
FREEMAN
ASSOCIATES**
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6320 ELY ROAD, SUITE 109 EAST SYRACUSE, NEW YORK 13057
PHONE: (315) 445-7980 FAX: (315) 445-7981

SEAL:

PLANNING
BOARD
SUBMISSION
6/1/2022

FAYETTEVILLE VETERINARY
HOSPITAL
8122 E. GENESEE ST.
TOWN OF MANLIUS, NY

Rev. No.	Date	Desc.
1.	3/14/22	PB SUBMISSION
2.	6/1/22	PB SUBMISSION
3.	6/13/22	PB MEETING
4.	6/14/22	NYS DOT REVS.
5.	6/27/22	PB SUBMISSION

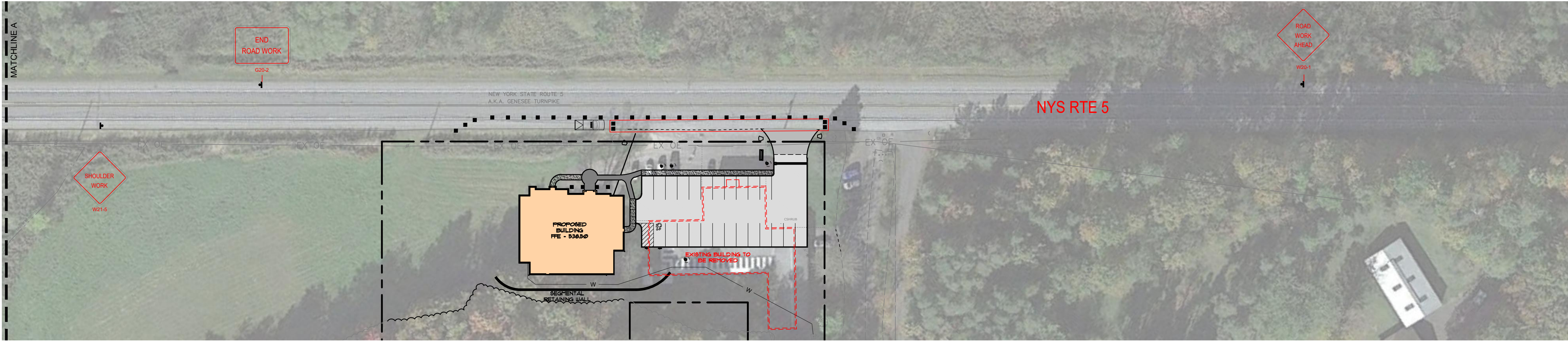
AM JOB NO.

WORK ZONE
TRAFFIC
CONTROL
PLAN

DATE ISSUED:
05/02/22

L404

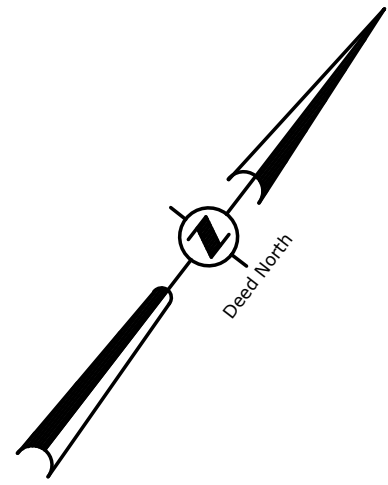
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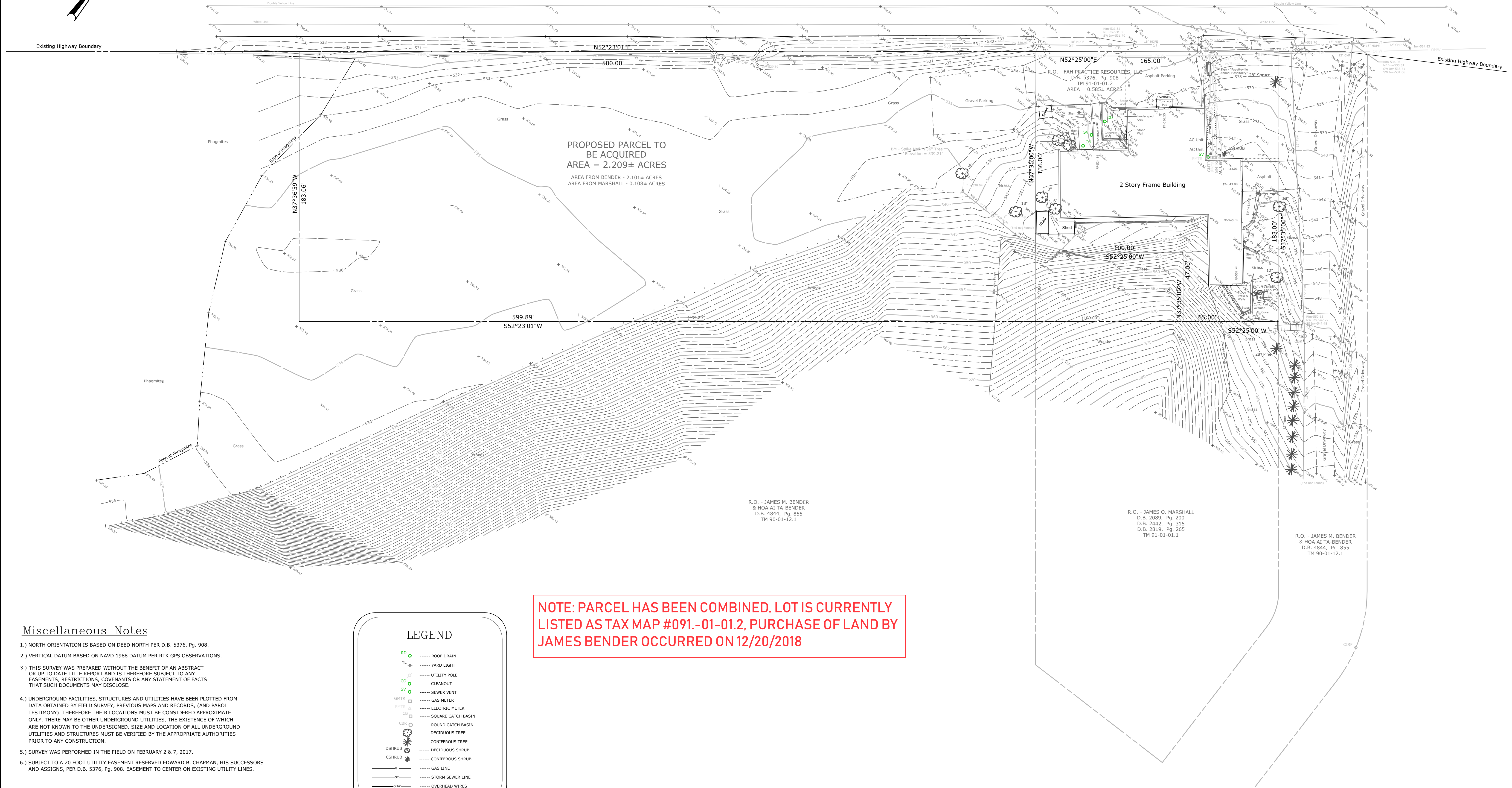
C:\Users\lama0060\Desktop\Temp Revit Local\16054-728G-JAER17.rvt





New York State Route 5
(East Genesee Street)

(S.H. 8025 - Fayetteville - Chittenango, Part 1)
(a.k.a. Genesee Turnpike)
(Width Varies)

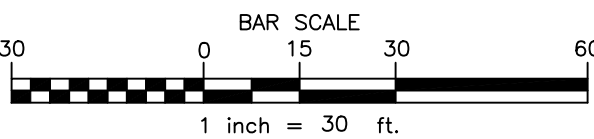


Miscellaneous Notes

- 1.) NORTH ORIENTATION IS BASED ON DEED NORTH PER D.B. 5376, Pg. 908.
- 2.) VERTICAL DATUM BASED ON NAVD 1988 DATUM PER RTK GPS OBSERVATIONS.
- 3.) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR UP TO DATE TITLE REPORT AND IS THEREFORE SUBJECT TO ANY EASEMENTS, RESTRICTIONS, COVENANTS OR ANY STATEMENT OF FACTS THAT SUCH DOCUMENTS MAY DISCLOSE.
- 4.) UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM DATA OBTAINED BY FIELD SURVEY, PREVIOUS MAPS AND RECORDS, (AND PAROL TESTIMONY). THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION.
- 5.) SURVEY WAS PERFORMED IN THE FIELD ON FEBRUARY 2 & 7, 2017.
- 6.) SUBJECT TO A 20 FOOT UTILITY EASEMENT RESERVED EDWARD B. CHAPMAN, HIS SUCCESSORS AND ASSIGNS, PER D.B. 5376, Pg. 908, EASEMENT TO CENTER ON EXISTING UTILITY LINES.

LEGEND

- RD ROOF DRAIN
- YL YARD LIGHT
- CO UTILITY POLE
- SV CLEANOUT
- SV SEWER VENT
- GMTR GAS METER
- EMTR ELECTRIC METER
- SCB SQUARE CATCH BASIN
- CRB ROUND CATCH BASIN
- DT DECIDUOUS TREE
- DSHRUB DECIDUOUS SHRUB
- CSHRUB CONIFEROUS SHRUB
- GL GAS LINE
- ST STORM SEWER LINE
- OW OVERHEAD WIRES



NOTE: PARCEL HAS BEEN COMBINED. LOT IS CURRENTLY LISTED AS TAX MAP #091.-01-01.2, PURCHASE OF LAND BY JAMES BENDER OCCURRED ON 12/20/2018

DAVID M. SLISKI
P.L.S. NO. 50105

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.
2017 C.T. MALE ASSOCIATES
APPROVED:
DRAFTED : DMS
CHECKED : DMS
PROJ. NO : 16.6687
SCALE : 1" = 30 FT.
DATE : FEB. 17, 2017

BOUNDARY AND TOPOGRAPHIC SURVEY MAP

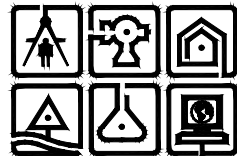
FOR THE LANDS OF
FAYETTEVILLE ANIMAL HOSPITALITY
8122 EAST GENESSEE STREET

PART OF LOT 67

TOWN OF MANLIUS ONONDAGA COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

200 GATEWAY PARK DRIVE, BLDG. C, P.O. BOX 3246
SYRACUSE, NY 13220-3246
315.458.6498 • FAX 315.458.4427



SHEET 1 OF 1
DWG. NO: 17-0158

ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY.

"The data and drawings contained on this disk are the copyrighted result of work prepared under direction of Registered/Licensed professional employees of C.T. Male Associates, D.P.C. As a service to our clients, we provide this information under the following conditions:
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3. The data and drawings are provided as a service to our clients and are not to be used for any other purpose.
4. Survey drawings meet appropriate accuracy standards only at the scale at which the hard copies were provided. Any enlargement of the hard copies will decrease its accuracy."

CAD DWG. FILE NAME: D:\00-projects\42014 - AMA - Fulls Vetsurvey\2022 - Site survey.dwg

RE: Fayetteville Veterinarian Hospital
Deep, Jeffrey (DOT) <Jeffrey.Deep@dot.ny.gov>
Fri 6/24/2022 1:57 PM
To:

- John Richmond <jr@Keplingerfreeman.com>

Cc:

- Edward Keplinger <ek@Keplingerfreeman.com>

📎 2 attachments (891 KB)

perm 44e - Performance Bond.pdf; PERM 33-COM_04_15_rev 040715.pdf;

Good Afternoon John,

Thank you for the detailed responses and updated plans. The 5/2/22 plans are approved.

The following administrative items are required to issue the Highway Work Permit:

1. Completed Perm 33-Com
 - a. Please include a copy of the SEQR determination.
 - b. The contractor performing work in the ROW must be listed as the joint applicant (page 16).
 - c. Page 19 must be signed by both applicants.
2. Contractor's insurance information (page 17). The NYSDOT (Region 3 address below) must be listed as the certificate holder and additional insured.
 - a. ACORD 25 for general liability insurance
 - b. ACORD 855 for the GL policy listed on the ACORD 25
 - c. Proof of Disability Insurance (DB-120.1 or DB-155)
 - d. Proof of Worker's Compensation (C-105.2 or U-26.3)
3. A surety bond for the amount of work performed in the NYSDOT ROW.
 - a. Please include a detailed estimate for us to determine the amount prior to submitting a bond.
 - b. The bond must be an embossed original Perm 44.
4. A check in the amount of \$550 payable to the NYS Department of Transportation for the permit fee.

Please let me know if you have any questions.

Best Regards,

Jeff

Jeffrey A. Deep

Acting Regional Permit Engineer

New York State Department of Transportation, Central New York Region

333 E. Washington Street, Syracuse, NY 13202

(315) 428-3233 | Jeffrey.Deep@dot.ny.gov

<https://www.dot.ny.gov/permits>



From: Deep, Jeffrey (DOT)

Sent: Tuesday, June 14, 2022 2:55 PM

**TOWN OF MANLIUS
ZONE CHANGE APPLICATION**

1. Name of Person applying for Zone Change SHASHANK BHATT
Address of person applying 4579 Southwood Heights Jamesville NY 13078
Cell Number 315-396-4392 Phone Number _____
2. Name: (owner of record) of land where Zone Change would occur HOGAN DRS LLC
Address (owner of record) 4579 Southwood Height Drive Jamesville NY 13078
Cell Number (owner of record) 315-396-4394 Phone Number _____
8104 Manlius Cay road - 112-02-2.7
3. Tax Map Number of property where Zone Change would occur 8112 " " - 112-02-7.0
4. Is this property located in a flood hazard area? NO 8116 " " - 112-02-2.9
8108 " " - 112-02-06.0
If so, what flood area is the property in it in?

5. Present zoning classification of property CA & RA
6. Desired zoning classification RM
Reason for Change of Zone (use additional sheets if necessary)
DESIRED CONVERSION OF SECOND FLOOR OFFICE SPACE TO
RESIDENTIAL APARTMENTS
7. What is lot size? _____
8. If the Zone Change is granted, will the use of the property conform to the District regulations as stated in Chapter 155 Article III of the Town of Manlius Municipal Code? YES
9. Is the property within the protectively zoned area of a housing project authorized under the public housing law? NO
10. Is the property within five hundred (500) feet of the boundaries of any city, village, town, county, state park or parkway? NO
If yes, please specify _____
11. Is the property within five hundred (500) feet from the boundary of any existing or proposed County or State park or other recreation area, or from the right-of-way of any existing or proposed county or state parkway, thruway, expressway, road or highway, or from the existing or proposed right-of-way of any stream or drainage channel owned by the county or for which the county has established channel lines, or from the existing or proposed boundary of any county or state owned land on which a public building or institution is situated? YES

If yes, please specify PROPERTY ABUTTING LIMESTONE CREEK

12. List the uses of all abutting property COMMERCIAL OFFICE, RESIDENTIAL

13. The following must be included with your 12 application packets unless otherwise specified and/or specifically waived by the Town Board:

- An environmental assessment form which can be obtained from the Town Clerk, or an environmental impact statement.
- Copy of a survey of the premises certified by a New York State licensed surveyor.
- Legal description of the premises.
- This application must be signed by both the owner of record of the property and the applicant.

The failure to answer any question on this application, the failure to submit any item as specified or the failure to execute this application will result in a delay in the processing of the application.

Date 5/30/2022

Shaohank Malt
Applicant 1

Date _____

Applicant 2

Date _____

Applicant

Short Environmental Assessment Form

Part 1 - Project Information

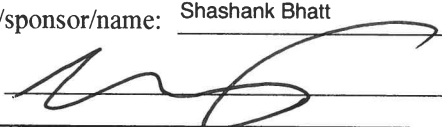
Instructions for Completing

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

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information			
Seven Pines Office Park, Residential conversion			
Name of Action or Project: Seven Pines Office PArk, Residential conversion			
Project Location (describe, and attach a location map): 8104- 8110 Cazenovia Rd, Manlius NY 13104			
Brief Description of Proposed Action: The project is for the conversion of the second floors of 4 existing 2 story office buildings into residential apartments. Three of the buildings would have three units and one would have 4 units. No changes to the exteriors or to the current parking areas.			
Name of Applicant or Sponsor: Shashank Bhatt		Telephone: 315-396-4394 E-Mail: shashank_bhatt@hotmail.com	
Address: 4579 Southwood Heights Tamuile NY			
City/PO: Tamuile		State: NY	Zip Code: 13078
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.		NO ☒	YES ☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: Town of Manlius Zoning approval Town of MANlius Building Permit		NO ☐	YES ☒
3. a. Total acreage of the site of the proposed action?		+/- 4 acres	
b. Total acreage to be physically disturbed?		0 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		+/- 4 acres	
4. Check all land uses that occur on, are adjoining or near the proposed action: ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☒ Commercial ☒ Residential (suburban) ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify): ☐ Parkland			

5. Is the proposed action, a. A permitted use under the zoning regulations? b. Consistent with the adopted comprehensive plan?	NO ☒ ☐	YES ☐ ☒	N/A ☐ ☐
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO ☐	YES ☒	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO ☒	YES ☐	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	NO ☒ ☐ ☒	YES ☐ ☒ ☐	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____	NO ☐	YES ☒	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____	NO ☐	YES ☒	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____	NO ☐	YES ☒	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? b. 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?	NO ☒ ☒	YES ☐ ☐	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____	NO ☒ ☒	YES ☐ ☐	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: ☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional ☐ Wetland ☐ Urban ☒ Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	☒	☐
16. Is the project site located in the 100-year flood plan?	NO	YES
	☒	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:	NO	YES
	☐	☒
	☒	☐
	☐	☒
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment:	NO	YES
	☒	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	NO	YES
	☒	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe:	NO	YES
	☒	☐
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor/name: <u>Shashank Bhatt</u> Date: <u>5/30/2022</u> Signature: <u></u> Title: <u>Managing member</u>		

Expected
Fee: _____

TOWN OF MANLIUS
PLANNING DEPARTMENT
INITIAL APPEARANCE APPLICATION

DATE: 5/30/2022

Name of Project: _____

Applicant must submit 12 copies of all site plans, surveys, and supporting data with the final application before a planning board meeting can be scheduled.

Location of Project: Manlius - Cayman Road

Type of Project:

☐ Division of Land ☐ Subdivision ☐ Accessory Use ☒ Zone Change ☐ Site Review ☐ Other _____

Developer: Hogen DRB LLC Phone: _____

Address: 4579 Southwood Heights Tamale NY Zip: 13078

Tax Map Number(#)/s: 8104 Manlius Cayman Road - 112-02-2-7

8112 Manlius - Cayman Road - 112-02-7-0 8108 Manlius - Cay Road - 112-02-06
8116 " " - 112-02-2-9

Present Zoning: QA # RA Desired Zoning: RM

Total Acreage: ±4 Total Number of Lots: —

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

Property Owner/s: _____ Phone: _____

Address: _____ Zip: _____

Tax Map#(s): _____ Owner's Signature: _____

Printed Name: _____

Use next page for additional known property owners' information

Planning Board Meeting Date Assignment: _____

Fee: _____ Paid: _____ Per: ☐ Credit/Debit Card ☐ Check ☐ Cash

Planning Board - Initial

TOWN OF MANLIUS
PLANNING DEPARTMENT
INITIAL APPEARANCE APPLICATION
(continued)

Property Owner/s: _____ Phone: _____
Address: _____ Zip: _____
Tax Map#(s): _____ Owner's Signature: _____
Printed Name: _____

Property Owner/s: _____ Phone: _____
Address: _____ Zip: _____
Tax Map#(s): _____ Owner's Signature: _____
Printed Name: _____

Property Owner/s: _____ Phone: _____
Address: _____ Zip: _____
Tax Map#(s): _____ Owner's Signature: _____
Printed Name: _____

Property Owner/s: _____ Phone: _____
Address: _____ Zip: _____
Tax Map#(s): _____ Owner's Signature: _____
Printed Name: _____

Property Owner/s: _____ Phone: _____
Address: _____ Zip: _____
Tax Map#(s): _____ Owner's Signature: _____
Printed Name: _____

Property Owner/s: _____ Phone: _____
Address: _____ Zip: _____
Tax Map#(s): _____ Owner's Signature: _____
Printed Name: _____

III. That no Town of Manlius officer, employee or a relative of either, as defined in Section 809 General Municipal Law has any interest in this application.

-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: 5/25, 20 22.

Shashank Bhatt
(Print Name)

[Signature]
(Signature)

(Entity Name)

By (Officer) (Title)

(Mailing Address of Applicant)

(Telephone Number)

Date: _____, 20 ____.

(Print Name)

(Signature)

(Entity Name)

By (Officer) (Title)

(Mailing Address of Applicant)

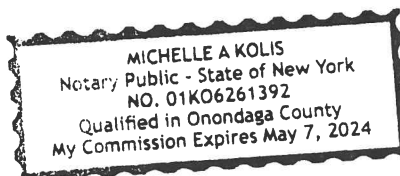
(Telephone Number)

ACKNOWLEDGEMENTS

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

On this 25th day of May in the year 2022, before me, the undersigned, a notary public in and for said state, personally appeared Shashank Bhatt,
N/A, and N/A personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.

Michelle A. Kolis
Notary Public



TOWN OF MANLIUS

DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit.*

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

I. _____, being duly sworn, deposes and says that (s) he is:

(applicant, petitioner, corporation officer, property owner, *etc.*)

II. That deponent has read and is familiar with the provisions of the General
Municipal Law, Section 809 which states:

- A. Every application, petition or request submitted for a site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provisions or any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state officer or any officer or employee of such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.
- B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:
 - 1) is the applicant, or
 - 2) is an officer, director, partner or employee of the applicant, or
 - 3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
 - 4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.
- C. Ownership of less than five percent (5%) of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.
- D. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

CORPORATE ACKNOWLEDGEMENT

STATE OF NEW YORK)

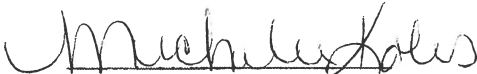
) SS:

COUNTY OF ONONDAGA)

Shashank Bhatt, being duly sworn, deposes and says the
s(he) is the managing member of Hogan Drs LLC
corporation named in the within Application/Petition, that s(he) has read the foregoing affidavit and
knows the contents thereof; that the same is true of s(he) own knowledge, except as to those matters
therein stated to be alleged upon information and belief, and as to those matters s(he) believes it to be
true.


Applicant Signature

Subscribed to me before this day 25th
Of May, 2022


Notary Public

MICHELLE A KOLIS
Notary Public - State of New York
NO. 01K06261392
Qualified in Onondaga County
My Commission Expires May 7, 2024

III. That no Town of Manlius officer, employee or a relative of either, as defined in Section 809 General Municipal Law has any interest in this application.

-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: 5/25, 2022.

Shashank Bhatt
(Print Name)

[Signature]
(Signature)

(Entity Name)

By (Officer) (Title)

(Mailing Address of Applicant)

(Telephone Number)

Date: _____, 20____.

(Print Name)

(Signature)

(Entity Name)

By (Officer) (Title)

(Mailing Address of Applicant)

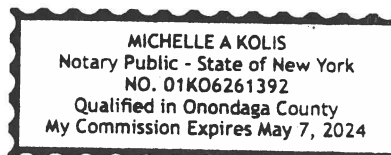
(Telephone Number)

ACKNOWLEDGEMENTS

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

On this 25th day of May in the year 2022, before me, the undersigned, a notary public in and for said state, personally appeared Shashank Bhatt,
N/A, and N/A personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.

Michelle A Kolis
Notary Public



TOWN OF MANLIUS

DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit.*

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

I. Shashank Bhatt being duly sworn, deposes and says that (s) he is:

Applicant

(applicant, petitioner, corporation officer, property owner, etc.)

II. That deponent has read and is familiar with the provisions of the General Municipal Law, Section 809 which states:

- A. Every application, petition or request submitted for a site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provisions or any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state officer or any officer or employee of such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.
- B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:
 - 1) is the applicant, or
 - 2) is an officer, director, partner or employee of the applicant, or
 - 3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
 - 4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.
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CORPORATE ACKNOWLEDGEMENT

STATE OF NEW YORK)

) SS:

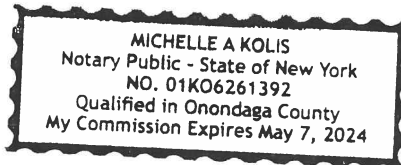
COUNTY OF ONONDAGA)

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s(he) is the managing member of Hogan Drs LLC
corporation named in the within Application/Petition, that s(he) has read the foregoing affidavit and
knows the contents thereof; that the same is true of s(he) own knowledge, except as to those matters
therein stated to be alleged upon information and belief, and as to those matters s(he) believes it to be
true.

[Signature]
Applicant Signature

Subscribed to me before this day 25th
Of May, 2022

[Signature]
Notary Public



James H. Messenger, Jr.

ATTORNEY AT LAW

The Galleries of Syracuse

440 South Warren Street • Suite 703

Syracuse, New York 13202

Tel: 315.471.3030 • Fax: 315.471.0899

jim@messengerlaw.net

May 20, 2022

James Knittel, AIA

in- Architects

239 E. Water Street – 2nd Floor

Syracuse, New York 13202

RE: Hogan DRS, LLC – Seven Pines project

8104, 8112 and 8116 Manlius-Cazenovia Road, and 8108 Manlius-Cazenovia
Road Town of Manlius

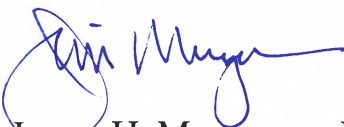
Dear Jim:

At the request of Dr. Shashank Bhatt, enclosed is a full size survey of 3 buildings (8104, 8112 and 8116 Manlius-Cazenovia Road) and a separate full size survey for 8108 Manlius-Cazenovia Road, all purchased earlier this year. I have requested a pdf versions from D. W. Hannig surveyors and will forward them to you if and when received. Please email me your email address.

Also enclosed are the legal descriptions for all 4 properties. Only 8108 has an expanded metes and bounds description. The others simply reflect a reference to a filed subdivision map.

Please feel free to contact me if you have any questions. Thank you.

Very truly yours,



James H. Messenger, Jr., Esq.

cc: Shashank Bhatt

SCHEDULE "A"
LEGAL DESCRIPTION
[for Mortgage Policy]

Parcel I [8104 Cazenovia Rd; Town of Manlius SBL # 112.-02-02.7]

all that tract or parcel of land situate in the Town of Manlius, County of Onondaga and State of New York being part of Lot 98 in said town and being more particularly described as Lot 4B according to a map entitled Final Plan Resubdivision of Lot 2A into Lots 2B, 3B and 4B Trolley Crossing made by D.W. Hannig L.S., P.C. dated January 10, 2007 and filed in the Onondaga County Clerk's Office on August 2, 2007 as Map No. 10712.

Parcel II [8112 Cazenovia Rd; Town of Manlius SBL # 112.-02-07.0]

all that tract or parcel of land situate in the Town of Manlius, County of Onondaga and State of New York being part of Lot 98 in said town and being more particularly described as Lot 2B according to a map entitled Final Plan Resubdivision of Lot 2A into Lots 2B, 3B and 4B Trolley Crossing made by D.W. Hannig L.S., P.C. dated January 10, 2007 and filed in the Onondaga County Clerk's Office on August 2, 2007 as Map No. 10712.

Together with a right of way, in comon with others, for ingress and egress between Route 92 and said Lot 2B, as more particularly desribed in an Ingress and Egress Easement dated April 6, 2007 and recorded in the Onondaga County Clerk's Office on March 4, 2008 in Book 5036 of Deeds at page 789 &c.

Parcel III [8116 Cazenovia Rd; Town of Manlius SBL # 112.-02-02.9]

All that tract or parcel of land situate in the Town of Manlius, County of Onondaga and State of New York being part of Lot 98 in said town and being more particularly described as Lot 3A according to a map entitled Final Plan Resubdivision of Lot 2 into Lots 2A and 3A Trolley Crossing made by D.W. Hannig, L.S., P.C. dated November 6, 2006 and filed in the Onondaga County Clerk's Office on February 1, 2007 as Map No. 10600.

Together with a right of way, in comon with others, for ingress and egress between Route 92 and said Lot 3A, as more particularly desribed in an Ingress and Egress Easement dated April 6, 2007 and recorded in the Onondaga County Clerk's Office on February 21, 2008 in Book 5034 of Deeds at page 733 &c.

8108 Manlius Cazenovia Road, Manlius, New York 13104

Tax Map No. 112.-02-06.0

ALL THAT TRACT OR PARCEL OF LAND situate in the Town of Manlius, County of Onondaga and State of New York, being part of Farm Lot 98 in said Town, and more particularly described as Lot No. 3B according to a map entitled Rinal Plan Resubdivision of Lot 2A into Lots 2B, 3B & 4B Trolley Crossing made by D. W. Hannig L.S., P.C. dated January 10, 2007 and filed in the Onondaga County Clerk's Office on August 2, 2007 as Map No. 10712 bounded and described as follows:

BEGINNING AT A POINT, said point being the following courses and distances from the easterly line of Whetstone Road: S 44° 10' 42" E 529.22 feet, S 71° 34' 32" W, 34.31 on a curve to left having a radius of 168.00 feet an arc length of 74.60; thence S 46° 08' 06" W 37.67 feet to the point of beginning:

THENCE from said point of beginning along a curve to the left having a radius of 21.00 feet and an arc length of 23.19 feet;

THENCE S 45° 01' 37" E for a distance of 83.52 feet to a point;
THENCE S 43° 16' 39" E for a distance of 12.57 feet to a point;
THENCE S 41° 56' 24" W for a distance of 173.22 feet to a point;
THENCE N 36° 41' 43" W for a distance of 132.00 feet to a point;
THENCE N 53° 08' 09" W for a distance of 25.40 feet to a point;
THENCE N 20° 03' 39" E for a distance of 32.60 feet to a point;
THENCE N 45° 29' 33" E for a distance of 53.32 feet to a point;
THENCE S 89° 30' 27" E for a distance of 19.80 feet to a point;
THENCE N 45° 29' 33" E for a distance of 34.76 feet to a point;
THENCE S 70° 56' 54" E for a distance of 14.46 feet to a point;
THENCE S 44° 58' 14" E for a distance of 16.90 feet to a point;
THENCE N 46° 08' 06" E for a distance of 32.56 feet to a point and place of beginning.

ALSO TOGETHER WITH an ingress and egress easement dated and acknowledged April 6, 2007 and recorded in the Onondaga County Clerk's Office simultaneously herewith, in common with others, over premises more particularly described as follows:

BEGINNING AT A POINT said point being South 44 degrees 10 minutes 42 seconds East, 497.43 feet from the easterly line of Whetstone Road;

THENCE South 44 degrees 10 minutes 42 seconds East for a distance of 31.79 feet along the southerly street line of Manlius-Cazenovia Road to a point;

THENCE South 71 degrees 34 minutes 32 seconds West for a distance of 34.31 feet to a point of a curve;

THENCE along a curve to the left having a radius of 168.02 feet and an arc length of 74.60 feet, being subtended by a chord of South 58 degrees 51 minutes 10 seconds West for a distance of 73.98 feet to a point of tangent;

THENCE South 46 degrees 08 minutes 06 seconds West for a distance of 37.67 feet to a point of curve;

THENCE along a curve to the left having a radius of 21.00 feet and an arc length of 23.19 feet, being subtended by a chord of South 12 degrees 37 minutes 42 seconds West for a distance of 22.21 feet to a point of tangent;

THENCE South 45 degrees 01 minutes 37 seconds East for a distance of 83.52 feet to a point;

THENCE South 43 degrees 16 minutes 39 seconds East for a distance of 64.20 feet to a point;

THENCE South 61 degrees 53 minutes 17 seconds East for a distance of 28.48 feet to a point;

THENCE South 76 degrees 09 minutes 46 seconds East for a distance of 27.83 feet to a point;

THENCE North 88 degrees 07 minutes 19 seconds West for a distance of 62.25 feet to a point;

THENCE North 44 degrees 48 minutes 43 seconds West for a distance of 178.19 feet to a point;

THENCE North 05 degrees 38 minutes 12 seconds East for a distance of 31.25 feet to a point of curve;

THENCE along a curve to the right having a radius of 190.00 feet and an arc length of 84.36 feet, being subtended by a chord of North 58 degrees 51 minutes 12 seconds East for a distance of 83.67 feet to a point of compound curve;

THENCE along a curve to the left having a radius of 35.00 feet and an arc length of 21.90 feet, being subtended by a chord of North 53 degrees 38 minutes 04 seconds East for a distance of 21.54 feet to a point and place of beginning.

ALSO TOGETHER WITH the rights to use and connect to the Drainage, Sanitary Sewer and Water Line Easements and Rights of Way, as they presently exist as shown on the Final Plan Trolley Crossing Amended by David W. Hannig, L.S., P.C. dated December 2, 2005 and filed in the Onondaga County Clerk's Office on April 28, 2006 as Map No. 10409, or as they may exist in the future.

ALSO TOGETHER WITH and subject to a Cross Parking Easement dated and acknowledged April 6, 2007 and recorded in the Onondaga County Clerk's Office on February 21, 2008 in Book 5034 of Deeds at Page 737.



ARCHITECTS

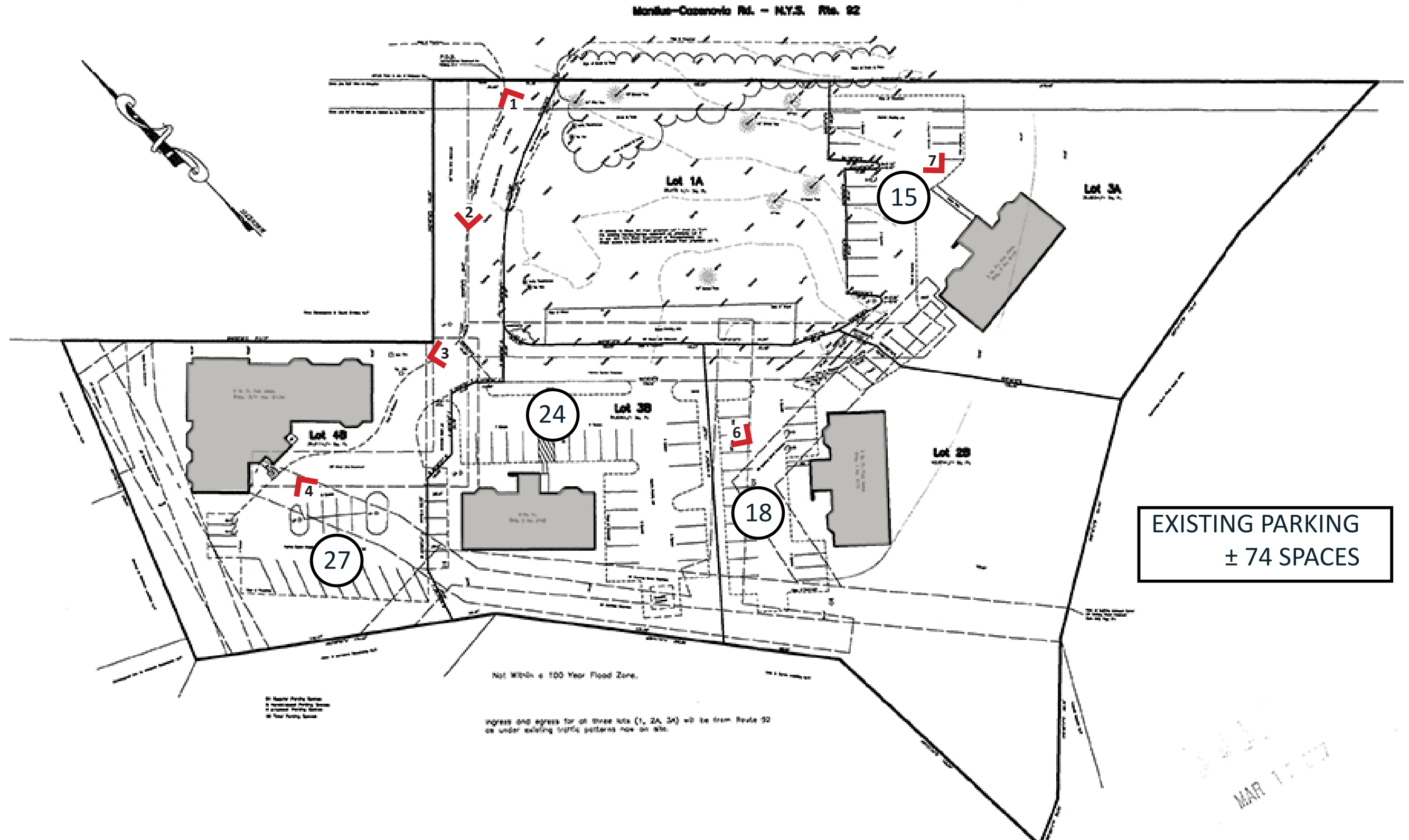
239 E. Water Street - 2nd Fl.
Syracuse, New York 13202
www.in-ARCHITECTS.com

SEVEN PINES RESIDENTIAL CONVERSION

CAZENOVIA ROAD, MANLIUS, NEW YORK

PHOTO PACKAGE

JUNE 3RD, 2022
#22033



ARCHITECTS

239 E. Water Street - 2nd Fl.
Syracuse, New York 13202

www.in-ARCHITECTS.com

SEVEN PINES RESIDENTIAL CONVERSION
CAZENOVIA ROAD, MANLIUS, NY

DESCRIPTION: SITE PLAN



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SEVEN PINES RESIDENTIAL CONVERSION
CAZENOVIA ROAD, MANLIUS, NY

PHOTO NUMBER:

1 & 2

PHOTO TITLE:

SIGNAGE / VIEW OF
BUILDING 2



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Syracuse, New York 13202
www.in-ARCHITECTS.com

SEVEN PINES RESIDENTIAL CONVERSION
CAZENOVIA ROAD, MANLIUS, NY

PHOTO NUMBER: 3 & 4
PHOTO TITLE: VIEWS OF BUILDING '3/4'



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SEVEN PINES RESIDENTIAL CONVERSION
CAZENOVIA ROAD, MANLIUS, NY

PHOTO NUMBER: 5 & 6

PHOTO TITLE: VIEW OF BUILDING 2 / VIEW
OF BUILDING 1



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Syracuse, New York 13202

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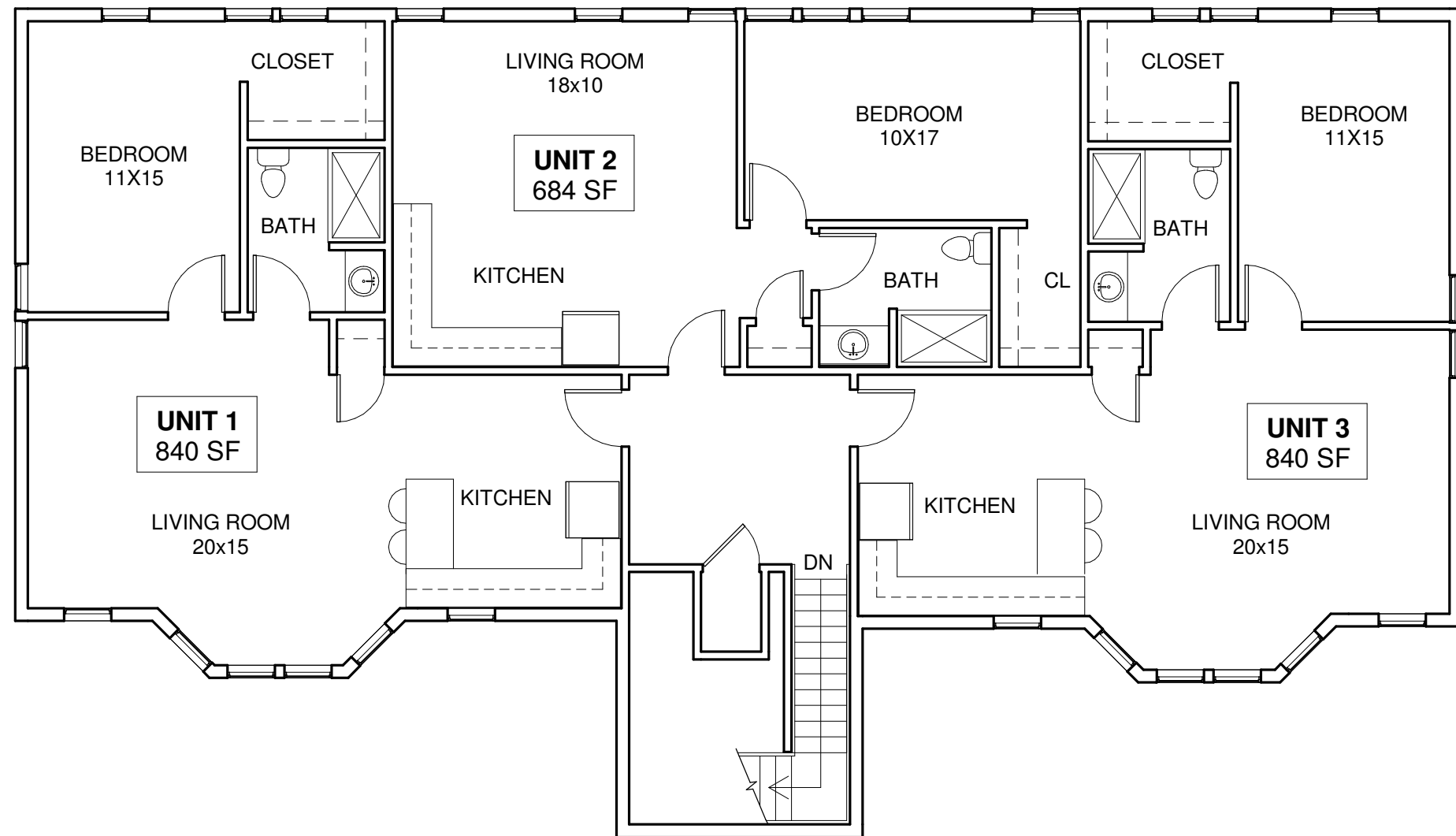
SEVEN PINES RESIDENTIAL CONVERSION
CAZENOVIA ROAD, MANLIUS, NY

PHOTO NUMBER:

7

PHOTO TITLE:

VIEW OF BUILDING 3



ARCHITECTS

239 E. Water Street - 2nd Fl.
Syracuse, New York 13202

www.in-ARCHITECTS.com

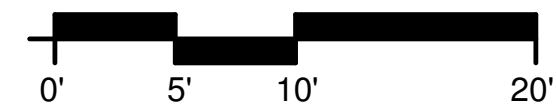
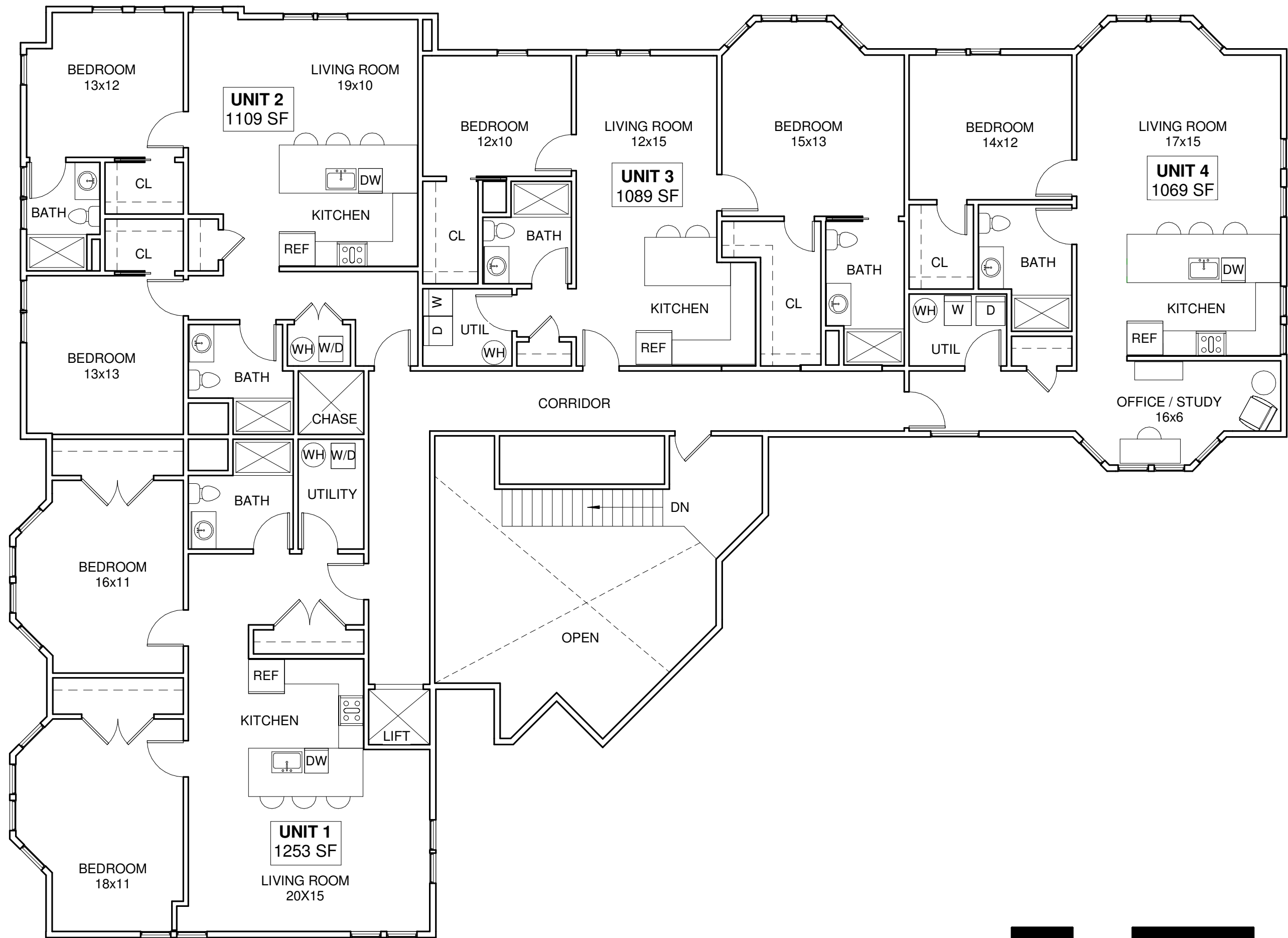
**SEVEN PINES
RESIDENTIAL
CONVERSION
CAZENOVIA ROAD,
MANLIUS, NY**

DATE: 06/03/2022

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

SHEET NAME: PROPOSED SECOND FLOOR
LAYOUT OF BUILDING 1, 2 & 3

SHEET NUMBER: A-202



ARCHITECTS

239 E. Water Street - 2nd Fl.
Syracuse, New York 13202

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SEVEN PINES
RESIDENTIAL
CONVERSION

CAZENOVIA ROAD,
MANLIUS, NY

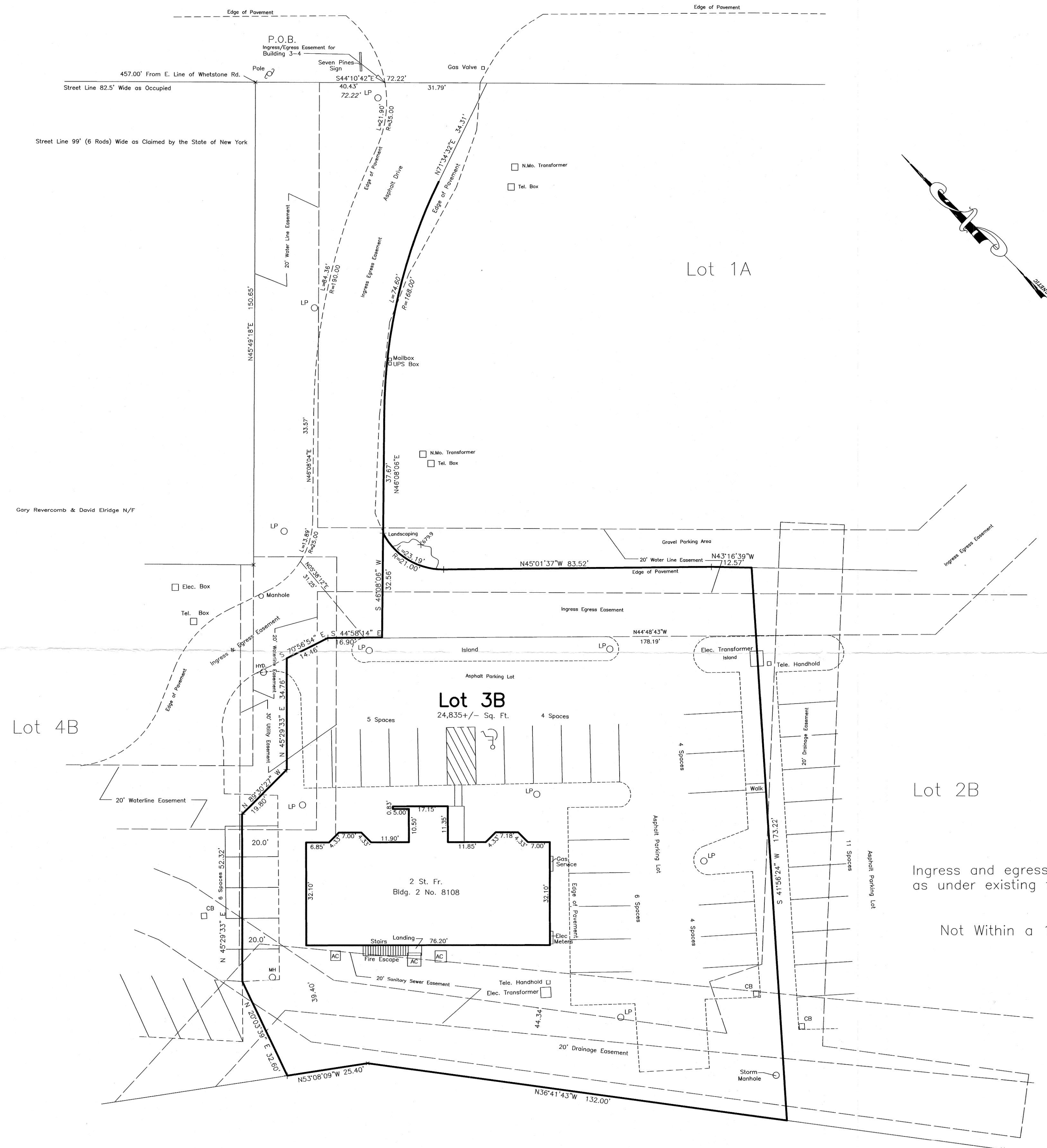
DATE: 06/03/2022

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

SHEET NAME: PROPOSED SECOND FLOOR
LAYOUT OF BUILDING '3/4'

SHEET NUMBER: A-201

Manlius-Cazenovia Rd. — N.Y.S. Rte. 92



Lot 3B, Trolley Crossing
Pt. of Lot 98 — Town of Manlius
Onondaga Co., N.Y.

Scale 1" = 20'

January 06, 2022



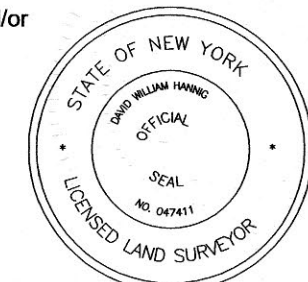
D. W. HANNIG L.S., P.C.

SURVEYORS - PLANNERS - CONSULTANTS
THE MARKET PLACE, BUILDING #1
MANLIUS, NEW YORK 13104
PHONE: (315) 682-5225 - FAX: (315) 682-7774

Subject to a Current Abstract of Title
In my professional opinion, and based on my observations and/or
scope of service, I hereby certify this map was made from an
actual survey on 1/06/2022, and this map is correct.

This certification is void unless signed in RED ink.

DAVID WILLIAM HANNIG, P.L.S., - N.Y.S. LIC. NO. 47411



The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities — Underground Facilities Protective Organization (315) 437-7333.

Expected

Fee: _____

TOWN OF MANLIUS
PLANNING DEPARTMENT
INITIAL APPEARANCE APPLICATION

DATE: 06/23/2022

Name of Project: Twin Shores- Fietta Properties

Applicant must submit 12 copies of all site plans, surveys, and supporting data with the final application before a planning board meeting can be scheduled.

Location of Project: North Burdick Street

Type of Project:

☐ Division of Land ☐ Subdivision ☐ Accessory Use ☐ Zone Change ☒ Site Review ☐ Other

Developer: Twin Shores Properties, LLC

Phone: 315-729-8459 (local)

Address: 1333 13th Street, East Moline, IL

Zip: 61244

Tax Map Number(#)/s: 086.-02-02.1, 03.0, 04.1, 05.1, 05.3, 06.1

Present Zoning: C-A, RA

Desired Zoning: _____

Total Acreage: 128.9 Acres

Total Number of Lots: _____

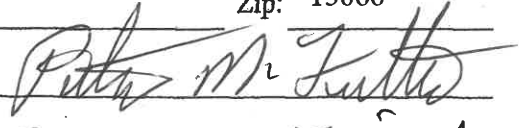
Property Owner/s: Fietta Realty Corporation

Phone: (315) 729-1121

Address: P.O. Box 449, Fayetteville, New York

Zip: 13066

Tax Map#(s): Same as above

Owner's Signature: 

Printed Name: PETER M. FIETTA

Property Owner/s: _____

Phone: _____

Address: _____

Zip: _____

Tax Map#(s): _____

Owner's Signature: _____

Printed Name: _____

Use next page for additional known property owners' information

Planning Board Meeting Date Assignment: _____

Fee: _____

Paid: _____

Per: ☐ Credit/Debit Card ☐ Check ☐ Cash

Planning Board - Initial

Expected

Fee: _____

TOWN OF MANLIUS
PLANNING DEPARTMENT
INITIAL APPEARANCE APPLICATION

DATE: 06/23/2022

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Desired Zoning: _____

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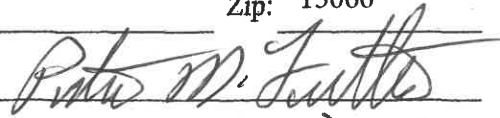
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Phone: (315) 729-1121

Address: P.O. Box 449, Fayetteville, New York

Zip: 13066

Tax Map#(s): Same as above

Owner's Signature: 

Printed Name: PETER M. FIETTA

Property Owner/s: _____

Phone: _____

Address: _____

Zip: _____

Tax Map#(s): _____

Owner's Signature: _____

Printed Name: _____

Use next page for additional known property owners' information

Planning Board Meeting Date Assignment: _____

Fee: _____

Paid: _____

Per: ☐ Credit/Debit Card ☐ Check ☐ Cash

Planning Board - Initial

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

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

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Twin Lakes		
Project Location (describe, and attach a general location map): North Burdick Street, Town of Manlius, Onondaga County, New York		
Brief Description of Proposed Action (include purpose or need): Twin Shores Properties, LLC is proposing to construct a mixed commercial and residential community. Currently proposed residential construction includes a 300-unit multi-family complex (tentative) and proposed commercial development includes a 70,500 square-foot (sf) movie theater, a 3,000 sf coffee shop, a 2,500 sf fast food restaurant and two undetermined retail outlets having footprint areas of approximately 2,400 sf and 1,800 sf. The retail outlets and coffee shop will be located within a common building. The project site encompasses approximately 130 acres and is bounded North Burdick Street to the west, Pools Brook to the east, Erie Canal lands to the north and open land to the south. The residential lot parcel will occupy approximately 51 acres and the commercial lots will occupy approximately 18 acres.		
Name of Applicant/Sponsor: Twin Shores Properties, LLC	Telephone: (563) 449-5541 E-Mail: info@twin-shores.com	
Address: 1333 13th Street		
City/PO: East Moline	State: Illinois	Zip Code: 61244
Project Contact (if not same as sponsor; give name and title/role): David Neuman	Telephone: 315-729-8459 (local) E-Mail: dneuman66@icloud.com	
Address: 7120 Thorntree Hill Drive		
City/PO: Fayetteville	State: New York	Zip Code: 13066
Property Owner (if not same as sponsor): Fietta Reality Corp	Telephone: (315) 729-1121 E-Mail:	
Address: P.O. Box 449		
City/PO: Fayetteville	State: New York	Zip Code: 13066

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, ☐ Yes ☒ No or Village Board of Trustees		
b. City, Town or Village ☒ Yes ☐ No Planning Board or Commission	Town of Manlius Planning Board (Site Plan Approval, Subdivision)	
c. City, Town or ☐ Yes ☒ No Village Zoning Board of Appeals		
d. Other local agencies ☐ Yes ☒ No		
e. County agencies ☒ Yes ☐ No	Onondaga County DOT, DOH, WEP and OCWA	
f. Regional agencies ☐ Yes ☒ No		
g. State agencies ☒ Yes ☐ No	NYS DEC (Article 24 Wetland, Construction (SPDES) Stormwater	
h. Federal agencies ☒ Yes ☐ No	U.S Army Corps of Engineers (NWP-39), FEMA (LOMR)	
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?		☐ Yes ☒ No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		☐ Yes ☒ No
iii. Is the project site within a Coastal Erosion Hazard Area?		☐ Yes ☒ No

C. Planning and Zoning

C.1. Planning and zoning actions.	
Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐ Yes ☒ No	
- If Yes, complete sections C, F and G. - If No, proceed to question C.2 and complete all remaining sections and questions in Part 1	
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐ Yes ☒ No	
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐ Yes ☐ No	
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐ Yes ☒ No	
If Yes, identify the plan(s):	
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐ Yes ☒ No	
If Yes, identify the plan(s):	

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? RA (Restricted Agricultural), CA (Commercial)	☒ Yes ☐ No
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? If Yes, i. What is the proposed new zoning for the site?	☐ Yes ☒ No
C.4. Existing community services.	
a. In what school district is the project site located? Fayetteville - Manlius School District	
b. What police or other public protection forces serve the project site? Town of Manlius Police Department	
c. Which fire protection and emergency medical services serve the project site? Town of Manlius Fire and CNY EMS	
d. What parks serve the project site? Old Erie Canal State Park, Town of Manlius Parks and Recreation	

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, include all components)? Residential and Commercial	
b. a. Total acreage of the site of the proposed action?	128.9 acres
b. Total acreage to be physically disturbed?	TBD acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?	128.9 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, housing units, square feet)? % _____ Units: _____	
d. Is the proposed action a subdivision, or does it include a subdivision?	☒ Yes ☐ No
If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) Mixed Residential and Commercial	
ii. Is a cluster/conservation layout proposed?	☒ Yes ☐ No
iii. Number of lots proposed?	3
iv. Minimum and maximum proposed lot sizes? Minimum 17.9 acres Maximum 59.9	
e. Will the proposed action be constructed in multiple phases?	☒ Yes ☐ No
i. If No, anticipated period of construction: _____ months	
ii. If Yes:	
• Total number of phases anticipated	2
• Anticipated commencement date of phase 1 (including demolition)	OCT month 2022 year
• Anticipated completion date of final phase	DEC month 2025 year
• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: Phase I: Development of commercial parcel and earthwork associated with multi-family residential parcels. Phase II: Construction of multi-family residential parcels.	

f. Does the project include new residential uses? ☒ Yes ☐ No				
If Yes, show numbers of units proposed.				
	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	-	-	-	-
At completion				
of all phases	-	-	-	TBD

g. Does the proposed action include new non-residential construction (including expansions)? ☒ Yes ☐ No	
If Yes,	
i. Total number of structures <u>3</u>	
ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length	
iii. Approximate extent of building space to be heated or cooled: <u>70,500</u> square feet	

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☒ Yes ☐ No	
If Yes,	
i. Purpose of the impoundment: <u>Flood Offset Storage</u>	
ii. If a water impoundment, the principal source of the water: ☐ Ground water ☒ Surface water streams ☐ Other specify: _____	
iii. If other than water, identify the type of impounded/contained liquids and their source. _____	
iv. Approximate size of the proposed impoundment. Volume: <u>TBD</u> million gallons; surface area: <u>TBD</u> acres	
v. Dimensions of the proposed dam or impounding structure: <u>TBD</u> height; <u>TBD</u> length	
vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): <u>Earth Excavation/Fill</u>	

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐ Yes ☒ No	
(Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)	
If Yes:	
i. What is the purpose of the excavation or dredging? _____	
ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?	
• Volume (specify tons or cubic yards): _____	
• Over what duration of time? _____	
iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____	
iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☐ No	
If yes, describe. _____	
v. What is the total area to be dredged or excavated? _____ acres	
vi. What is the maximum area to be worked at any one time? _____ acres	
vii. What would be the maximum depth of excavation or dredging? _____ feet	
viii. Will the excavation require blasting? ☐ Yes ☐ No	
ix. Summarize site reclamation goals and plan: _____	

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☒ Yes ☐ No	
If Yes:	
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): <u>South Pond- Refer to Site Plan</u>	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:
The Proposed action includes the regrading of soils along the south shoreline of the South Pond.

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☒ Yes ☐ No
If Yes, describe: See Above

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☒ Yes ☐ No
If Yes:

- acres of aquatic vegetation proposed to be removed: See Below
- expected acreage of aquatic vegetation remaining after project completion: See Below
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
Reclamation of South Pond shoreline
- proposed method of plant removal: See Below
- if chemical/herbicide treatment will be used, specify product(s): N/A

v. Describe any proposed reclamation/mitigation following disturbance:
Vegetation to be re-established through shoreline reclamation and land stabilization

c. Will the proposed action use, or create a new demand for water? ☒ Yes ☐ No
If Yes:

i. Total anticipated water usage/demand per day: 72,000 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: WT050 - Manlius Cons Water Supply
- 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:

- Describe extensions or capacity expansions proposed to serve this project:
west side of North Burdick street. Loop 8" water line through the site (approx. 4,000 LF) along proposed roadway.
- Source(s) of supply for the district: Lake Ontario

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☒ No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: gallons/minute.

d. Will the proposed action generate liquid wastes? ☒ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: 72,000 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary Wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities? ☒ Yes ☐ No
If Yes:

- Name of wastewater treatment plant to be used: Meadowbrook - Limestone WWTP
- Name of district: SW012- Consolidated Sewer
- Does the existing wastewater treatment plant have capacity to serve the project? ☒ Yes ☐ No
- Is the project site in the existing district? ☒ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☒ No

• Do existing sewer lines serve the project site? ☒ Yes ☐ No • Will a 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: Construction of 4,000 LF 8" sanitary sewer along proposed roadway, connections to Meadow Brook Limestone intercepting sewer and Bishop Brook trunk sewer.	
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? _____	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans): _____ _____	
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 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? ☒ Yes ☐ No If Yes: i. How much impervious surface will the project create in relation to total size of project parcel? Square feet or _____ acres (impervious surface) _____ Square feet or <u>TBD</u> acres (parcel size) ii. Describe types of new point sources. <u>Stormwater Conveyance/ Stormwater Management Area outfall pipes and drainage swales</u> _____ iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)? <u>On-site stormwater management facilities and surface water</u> _____ • If to surface waters, identify receiving water bodies or wetlands: _____ <u>South Pond, North Pond and Limestone Creek</u> • Will stormwater runoff flow to adjacent properties? ☐ Yes ☒ No	
iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☒ Yes ☐ No	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☒ Yes ☐ No If Yes, identify: i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) <u>Heavy equipment during construction and other automotive vehicles</u> ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) _____ iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) _____	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☒ No If Yes: i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No ii. In addition to emissions as calculated in the application, the project will generate: • _____ Tons/year (short tons) of Carbon Dioxide (CO₂) • _____ Tons/year (short tons) of Nitrous Oxide (N₂O) • _____ Tons/year (short tons) of Perfluorocarbons (PFCs) • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆) • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (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 ☒ No If Yes: i. Estimate methane generation in tons/year (metric): _____ ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____			
i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐ Yes ☒ No If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____			
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☒ Yes ☐ No If Yes: i. When is the peak traffic expected (Check all that apply): ☒ Morning ☐ Evening ☒ Weekend ☐ Randomly between hours of _____ to _____. ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): <u>10</u> Restaurant supply deliverers and garbage trucks iii. Parking spaces: Existing <u>0</u> Proposed <u>TBD</u> Net increase/decrease <u>TBD</u> iv. Does the proposed action include any shared use parking? ☒ Yes ☐ No v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: <u>Construction of 36 LF wide by approx. 4,000 LF long looped roadway per Town of Manlius standards.</u> vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☒ Yes ☐ No vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☒ Yes ☐ No viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☒ Yes ☐ No			
k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☒ Yes ☐ No If Yes: i. Estimate annual electricity demand during operation of the proposed action: <u>1,200,000 kWh per year multi-family residential units, 1,575,000 kWh per year commercial development.</u> ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): <u>Grid / local Utilities</u> 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. <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> i. During Construction: • Monday - Friday: <u>7:00 AM - 5:00 PM</u> • Saturday: <u>TBD</u> • Sunday: <u>TBD</u> • Holidays: <u>TDB</u> </td> <td style="width: 50%; vertical-align: top;"> ii. During Operations: • Monday - Friday: <u>6:00 AM - 10:00 PM</u> • Saturday: <u>6:00 AM - 10:00 PM</u> • Sunday: <u>6:00 AM - 9:00 PM</u> • Holidays: <u>Varies</u> </td> </tr> </table>		i. During Construction: • Monday - Friday: <u>7:00 AM - 5:00 PM</u> • Saturday: <u>TBD</u> • Sunday: <u>TBD</u> • Holidays: <u>TDB</u>	ii. During Operations: • Monday - Friday: <u>6:00 AM - 10:00 PM</u> • Saturday: <u>6:00 AM - 10:00 PM</u> • Sunday: <u>6:00 AM - 9:00 PM</u> • Holidays: <u>Varies</u>
i. During Construction: • Monday - Friday: <u>7:00 AM - 5:00 PM</u> • Saturday: <u>TBD</u> • Sunday: <u>TBD</u> • Holidays: <u>TDB</u>	ii. During Operations: • Monday - Friday: <u>6:00 AM - 10:00 PM</u> • Saturday: <u>6:00 AM - 10:00 PM</u> • Sunday: <u>6:00 AM - 9:00 PM</u> • Holidays: <u>Varies</u>		

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☒ Yes ☐ No If yes: i. Provide details including sources, time of day and duration: <u>It is anticipated that noise levels associated with typical site work and building construction activities will exceed ambient levels, generally Monday through Friday, during regular business hours. Typical operations for anticipated post - construction occupancies will not exceed ambient noise levels.</u> ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☒ Yes ☐ No Describe: <u>Tree/ stump removal as necessary to facilitate construction.</u>	
n. Will the proposed action have outdoor lighting? ☒ Yes ☐ No If yes: i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: <u>Roadway and community parcel parking lot lights - Approximate heights 25-30 FT.</u> ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☒ Yes ☐ No Describe: <u>Tree and Shrub Removal</u>	
o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☒ 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? ☐ Yes ☒ No If Yes: i. Product(s) to be stored _____ ii. Volume(s) _____ per unit time _____ (e.g., month, year) iii. Generally, describe the proposed storage facilities: _____	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☒ No If Yes: 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)? ☒ Yes ☐ No If Yes: i. Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: _____ 2 tons per _____ month (unit of time) • Operation : _____ 6 tons per _____ month (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste: • Construction: <u>Recycling of metal recovered from demolition</u> _____ • Operation: <u>Recycling paper, cardboard, plastic, etc.</u> _____ iii. Proposed disposal methods/facilities for solid waste generated on-site: • Construction: <u>Collection in roll off containers. Transport to municipal solid waste landfill or permitted recycling facility.</u> _____ • Operation: <u>Collection in dumpsters/recycling bins. Transport to municipal solid waste landfill or permitted recycling facility.</u> _____	

s. Does the proposed action include construction or modification of a solid waste management 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 other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☒ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent 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 ☒ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe: _____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.2	TBD	TBD
• Forested	67	TBD	TBD
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	12	TBD	TBD
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	42	TBD	TBD
• Wetlands (freshwater or tidal)	0.5	TBD	TBD
• Non-vegetated (bare rock, earth or fill)	6	TBD	TBD
• Other Describe: Residential lawns	1.2	TBD	TBD

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☒ No	
• If yes, DEC site ID number: _____ • Describe the type of institutional control (e.g., deed restriction or easement): _____ • Describe any use limitations: _____ • Describe any engineering controls: _____ • Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No • Explain: _____	
E.2. Natural Resources On or Near Project Site	
a. What is the average depth to bedrock on the project site? Greater than 37 feet	
b. Are there bedrock outcroppings on the project site? ☐ Yes ☒ No	
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %	
c. Predominant soil type(s) present on project site:	
Gravel Pits	20 %
Silt Loam	80 %
_____	_____ %
d. What is the average depth to the water table on the project site? Average: 5 - 17 feet	
e. Drainage status of project site soils:	
☒ Well Drained:	30 % of site
☒ Moderately Well Drained:	40 % of site
☒ Poorly Drained	30 % of site
f. Approximate proportion of proposed action site with slopes:	
☒ 0-10%:	70 % of site
☒ 10-15%:	10 % of site
☒ 15% or greater:	20 % of site
g. Are there any unique geologic features on the project site? ☐ Yes ☒ No	
If Yes, describe: _____	
h. Surface water features.	
i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☒ Yes ☐ No	
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: Name 899-224, 899-222, 899-296	Classification C
• Lakes or Ponds: Name 899-224.3	Classification C
• Wetlands: Name Federal Waters, NYS Wetland, Federal Waters, Fe...	Approximate Size NYS Wetland (in a...
• Wetland No. (if regulated by DEC) SYE-22	
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: _____	
Name - Pollutants - Uses: Limestone Creek, Lower, and minor tribs - Pathogens; D.O./Oxygen Demand; Aesthetics - Recreation; Aquatic...	
i. Is the project site in a designated Floodway? ☒ Yes ☐ No	
j. Is the project site in the 100-year Floodplain? ☒ Yes ☐ No	
k. Is the project site in the 500-year Floodplain? ☒ Yes ☐ No	
l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☒ No	
If Yes:	
i. Name of aquifer: _____	

m. Identify the predominant wildlife species that occupy or use the project site: Endangered species study pending. _____ _____	
n. Does the project site contain a designated significant natural community? ☐ Yes ☒ No If Yes: i. Describe the habitat/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 -): _____ acres	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☒ Yes ☐ No If Yes: i. Species and listing (endangered or threatened): _____ Northern Long-eared Bat _____	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☒ No If Yes: i. Species and listing: _____ _____	
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 Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☒ No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☒ 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 Natural Landmark? ☐ Yes ☒ No If Yes: i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____	
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 the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☒ Yes ☐ No	
If Yes: i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District ii. Name: Eligible property: Limestone Creek Aqueduct & Crossover Bridge, Eligible property: 101 Garlock Ave, Fayetteville, Eligi... 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 ☒ No	
g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☒ No	
If Yes: i. Describe possible resource(s): SHPO No Impact letter issued June 29, 2022. ii. Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☒ Yes ☐ No	
If Yes: i. Identify resource: Erie Canal Historic Park ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): State Historic Trail/Park iii. Distance between project and resource: _____ <0.1 miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☒ No	
If Yes: i. Identify the name of the river and its designation: _____ ii. Is the activity consistent with development restrictions contained in 6 NYCRR 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 impacts plus any measures which you propose to avoid or minimize them.

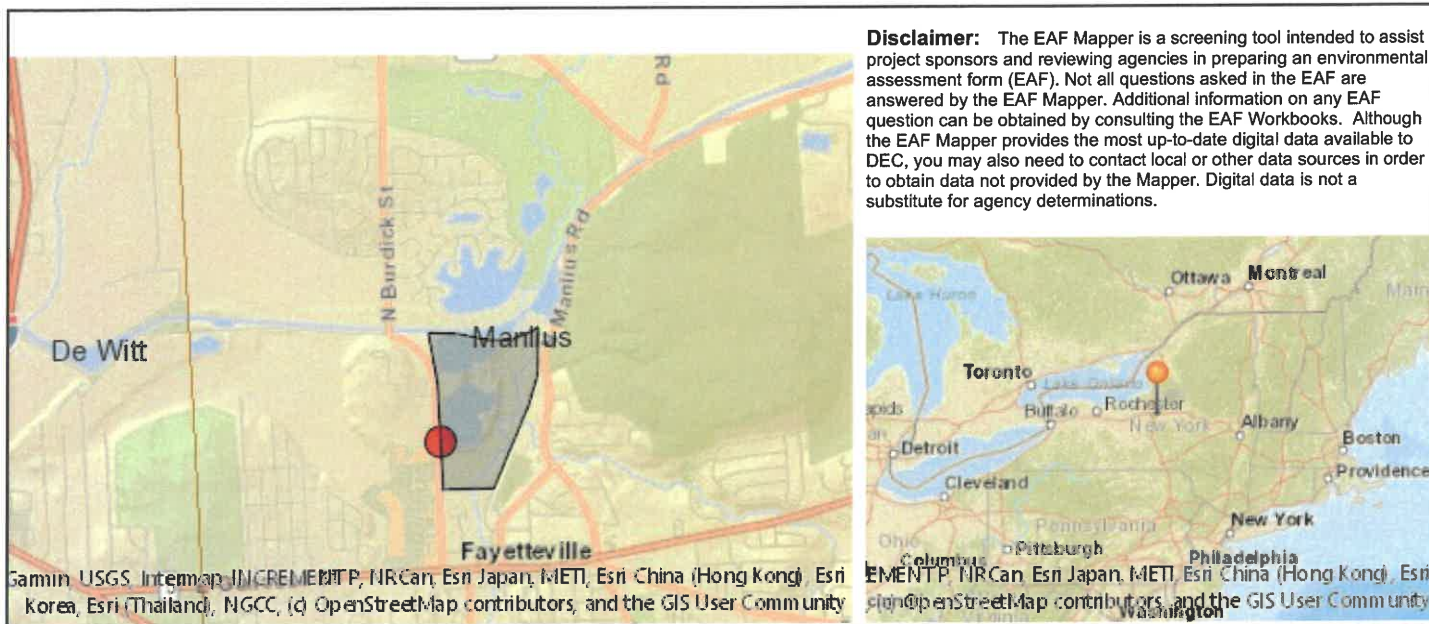
G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Twin Shores, LLC Date 6/30/22

Signature [Signature] Title Exec. VP of Development

PRINT FORM

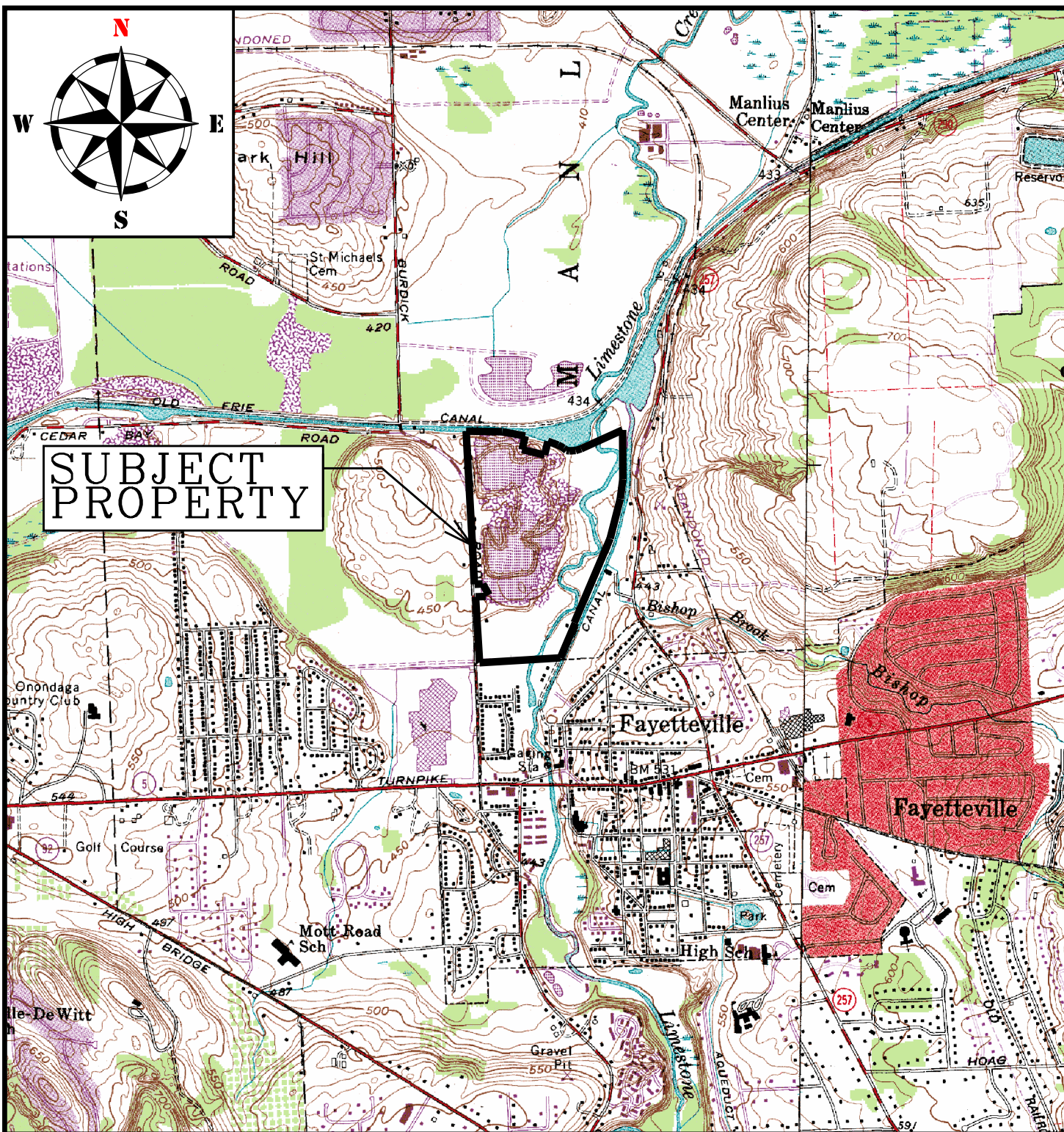


B.1.i [Coastal or Waterfront Area]	No
B.1.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.ii [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	C734106, 734052
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	899-224, 899-222, 899-296
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Lake/Pond Name]	899-224.3
E.2.h.iv [Surface Water Features - Lake/Pond Classification]	C

E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters, NYS Wetland
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):892.6
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	SYE-22
E.2.h.v [Impaired Water Bodies]	Yes
E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]	Name - Pollutants - Uses:Limestone Creek, Lower, and minor tribs – Pathogens;D.O./Oxygen Demand;Aesthetics – Recreation;Aquatic Life
E.2.i. [Floodway]	Yes
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	Yes
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Northern Long-eared Bat
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Eligible property:LIMESTONE CREEK AQUEDUCT & CROSSOVER BRIDGE, Eligible property:101 Garlock Ave, Fayetteville, Eligible property:148 North Burdick Street, Eligible property:150 North Burdick Street, Eligible property:146 North Burdick Street, Eligible property:152 North Burdick Street
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

APPENDIX 1

SITE LOCATION MAP



REF: U.S.G.S. SYRACUSE EAST QUAD., 1957, PHOTOREVISED 1978, 7.5 MIN.



19 Genesee Street
Camillus, New York 13031
PH: (315) 672-8726 • FX: (315) 672-8732
www.tdkengineering.com

DRAWING TITLE:

SITE LOCATION MAP

PROJECT:

MANLIUS PROJECT

CLIENT:

TWIN SHORES PROPERTIES, LLC

LOCATION:

TOWN OF MANLIUS, ONONDAGA COUNTY, NEW YORK

PROJECT No.: 2021054

SCALE: 1"=2000'

DATE: 10/04/2021

ENG'D BY: SKO

DRAWN BY: NAR

CHECKED BY: JED

SHEET NO.

SLM-1

APPENDIX 2

NRCS INFORMATION



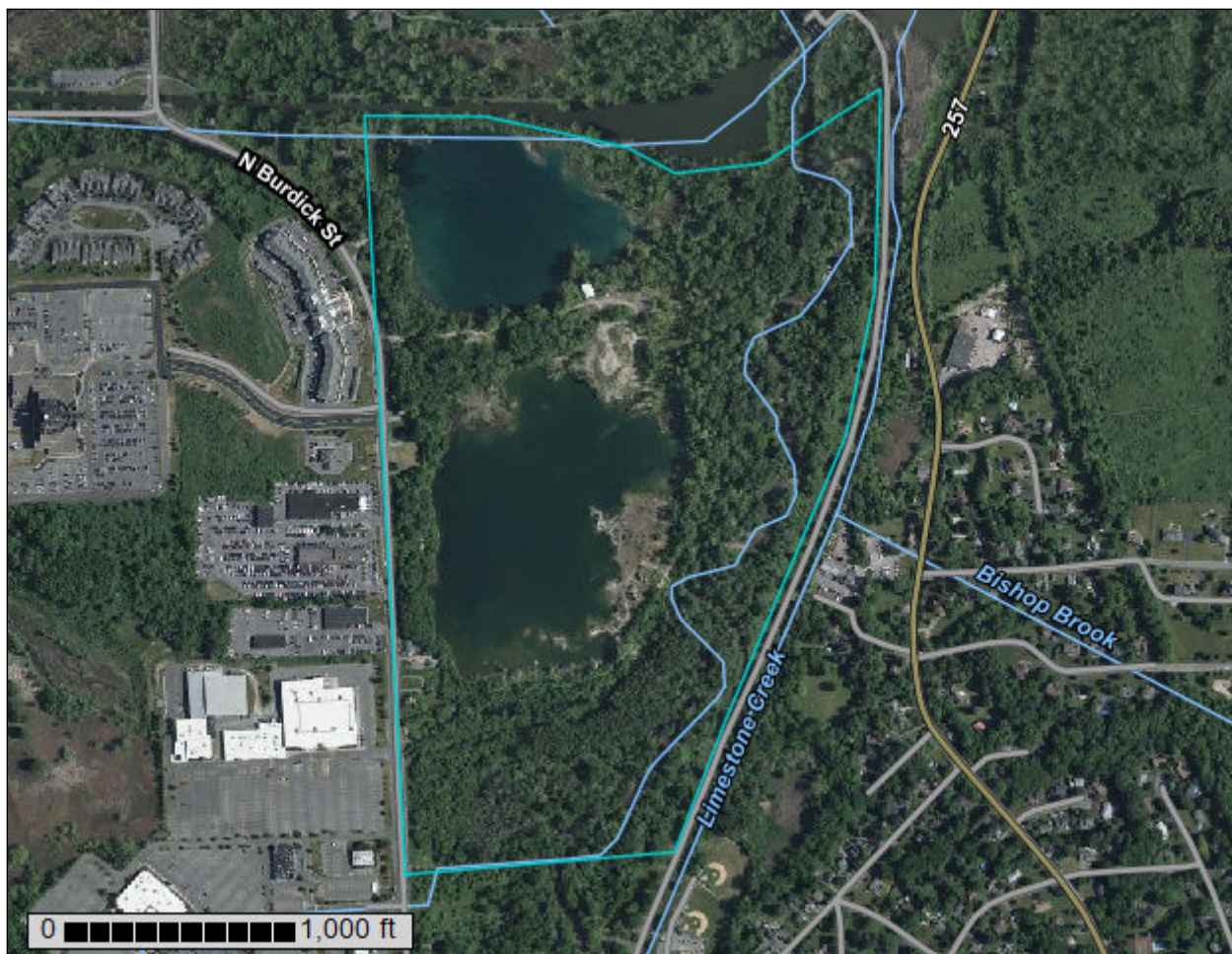
United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Onondaga County, New York**



March 11, 2022

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Onondaga County, New York
Survey Area Data: Version 16, Sep 1, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 21, 2020—Jun 17, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CfB	Cazenovia silt loam, 2 to 8 percent slopes	6.4	4.9%
CgD	Cazenovia soils, 15 to 25 percent slopes	5.2	4.0%
Hb	Hamlin silt loam	11.5	8.7%
PG	Gravel pits	23.1	17.5%
PgB	Palmyra gravelly loam, 3 to 8 percent slopes	4.7	3.5%
Te	Teel silt loam	11.6	8.8%
W	Water	42.7	32.3%
Wn	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	26.8	20.3%
Totals for Area of Interest		132.0	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor

components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Onondaga County, New York

CfB—Cazenovia silt loam, 2 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9vg5
Elevation: 380 to 1,690 feet
Mean annual precipitation: 38 to 42 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 110 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Cazenovia and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cazenovia

Setting

Landform: Till plains, reworked lake plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Down-slope shape: Concave
Across-slope shape: Convex
Parent material: Loamy till that contains limestone with an admixture of reddish lake-laid clays or reddish clay shale

Typical profile

H1 - 0 to 12 inches: silt loam
H2 - 12 to 36 inches: silty clay loam
H3 - 36 to 60 inches: gravelly silty clay loam

Properties and qualities

Slope: 2 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 24 to 48 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Ecological site: F101XY013NY - Moist Till
Hydric soil rating: No

Minor Components

Ovid

Percent of map unit: 10 percent

Hydric soil rating: No

Unnamed soils

Percent of map unit: 5 percent

Hydric soil rating: No

CgD—Cazenovia soils, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9vg8

Elevation: 390 to 1,670 feet

Mean annual precipitation: 38 to 42 inches

Mean annual air temperature: 45 to 48 degrees F

Frost-free period: 110 to 190 days

Farmland classification: Not prime farmland

Map Unit Composition

Cazenovia and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cazenovia

Setting

Landform: Till plains, reworked lake plains

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Side slope

Down-slope shape: Concave

Across-slope shape: Convex

Parent material: Loamy till that contains limestone with an admixture of reddish lake-laid clays or reddish clay shale

Typical profile

H1 - 0 to 12 inches: silt loam

H2 - 12 to 36 inches: silty clay loam

H3 - 36 to 60 inches: gravelly silty clay loam

Properties and qualities

Slope: 15 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 24 to 48 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Custom Soil Resource Report

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: F101XY013NY - Moist Till
Hydric soil rating: No

Minor Components

Ovid

Percent of map unit: 5 percent
Hydric soil rating: No

Ontario

Percent of map unit: 5 percent
Hydric soil rating: No

Honeoye

Percent of map unit: 5 percent
Hydric soil rating: No

Schoharie

Percent of map unit: 5 percent
Hydric soil rating: No

Hb—Hamlin silt loam

Map Unit Setting

National map unit symbol: 9vgz
Elevation: 360 to 1,260 feet
Mean annual precipitation: 38 to 42 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 110 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Hamlin and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hamlin

Setting

Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Silty alluvium mainly from areas of siltstone, shale, and limestone

Typical profile

H1 - 0 to 9 inches: silt loam
H2 - 9 to 16 inches: silt loam
H3 - 16 to 41 inches: silt loam

Custom Soil Resource Report

H4 - 41 to 60 inches: silt loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)*

Depth to water table: About 36 to 72 inches

Frequency of flooding: OccasionalNone

Frequency of ponding: None

Calcium carbonate, maximum content: 1 percent

Available water supply, 0 to 60 inches: High (about 11.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: B

Hydric soil rating: No

Minor Components

Herkimer

Percent of map unit: 5 percent

Hydric soil rating: No

Teel

Percent of map unit: 5 percent

Hydric soil rating: No

Howard

Percent of map unit: 5 percent

Hydric soil rating: No

PG—Gravel pits

Map Unit Setting

National map unit symbol: 9vgr

Mean annual precipitation: 38 to 42 inches

Mean annual air temperature: 45 to 48 degrees F

Frost-free period: 110 to 190 days

Farmland classification: Not prime farmland

Map Unit Composition

Gravel pits: 70 percent

Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Minor Components

Alton

Percent of map unit: 5 percent

Hydric soil rating: No

Galen

Percent of map unit: 5 percent

Hydric soil rating: No

Howard

Percent of map unit: 5 percent

Hydric soil rating: No

Wampsville

Percent of map unit: 5 percent

Hydric soil rating: No

Fredon

Percent of map unit: 5 percent

Landform: Depressions

Hydric soil rating: Yes

Lamson

Percent of map unit: 5 percent

Landform: Depressions

Hydric soil rating: Yes

PgB—Palmyra gravelly loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9vkh

Elevation: 380 to 1,410 feet

Mean annual precipitation: 38 to 42 inches

Mean annual air temperature: 45 to 48 degrees F

Frost-free period: 110 to 190 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Palmyra and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Palmyra

Setting

Landform: Terraces, outwash plains, deltas

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy over sandy and gravelly glaciofluvial deposits, derived mainly from limestone and other sedimentary rocks

Typical profile

H1 - 0 to 14 inches: gravelly loam

H2 - 14 to 31 inches: gravelly loam

H3 - 31 to 60 inches: stratified very gravelly sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Phelps

Percent of map unit: 5 percent
Hydric soil rating: No

Arkport

Percent of map unit: 5 percent
Hydric soil rating: No

Howard

Percent of map unit: 5 percent
Hydric soil rating: No

Schoharie

Percent of map unit: 5 percent
Hydric soil rating: No

Te—Teel silt loam

Map Unit Setting

National map unit symbol: 9vkv
Elevation: 600 to 1,800 feet
Mean annual precipitation: 38 to 42 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 110 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Teel and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Teel

Setting

Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf
Down-slope shape: Concave
Across-slope shape: Convex
Parent material: Silty alluvium

Typical profile

H1 - 0 to 10 inches: silt loam
H2 - 10 to 28 inches: silt loam
H3 - 28 to 60 inches: silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: About 18 to 24 inches
Frequency of flooding: OccasionalNone
Frequency of ponding: None
Calcium carbonate, maximum content: 1 percent
Available water supply, 0 to 60 inches: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: B/D
Hydric soil rating: No

Minor Components

Hamlin

Percent of map unit: 5 percent
Hydric soil rating: No

Herkimer

Percent of map unit: 5 percent
Hydric soil rating: No

Howard

Percent of map unit: 5 percent
Hydric soil rating: No

Wayland

Percent of map unit: 5 percent
Landform: Flood plains
Hydric soil rating: Yes

W—Water

Map Unit Setting

National map unit symbol: 9vl1
Mean annual precipitation: 38 to 42 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 110 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Wn—Wayland soils complex, 0 to 3 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 2srgv
Elevation: 160 to 1,970 feet
Mean annual precipitation: 31 to 68 inches
Mean annual air temperature: 43 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Wayland and similar soils: 60 percent
Wayland, very poorly drained, and similar soils: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wayland

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty and clayey alluvium derived from interbedded sedimentary rock

Typical profile

A - 0 to 6 inches: silt loam
Bg1 - 6 to 12 inches: silt loam
Bg2 - 12 to 18 inches: silt loam
C1 - 18 to 46 inches: silt loam
C2 - 46 to 72 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: FrequentNone
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Very high (about 12.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B/D
Ecological site: F139XY009OH - Wet Floodplain
Hydric soil rating: Yes

Description of Wayland, Very Poorly Drained

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Silty and clayey alluvium derived from interbedded sedimentary rock

Typical profile

A - 0 to 6 inches: mucky silt loam
Bg1 - 6 to 12 inches: silt loam
Bg2 - 12 to 18 inches: silt loam
C1 - 18 to 46 inches: silt loam
C2 - 46 to 72 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: NoneFrequent
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Very high (about 12.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B/D
Ecological site: F139XY009OH - Wet Floodplain
Hydric soil rating: Yes

Minor Components

Wakeville

Percent of map unit: 10 percent

Landform: Flood plains

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Talf

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

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Custom Soil Resource Report

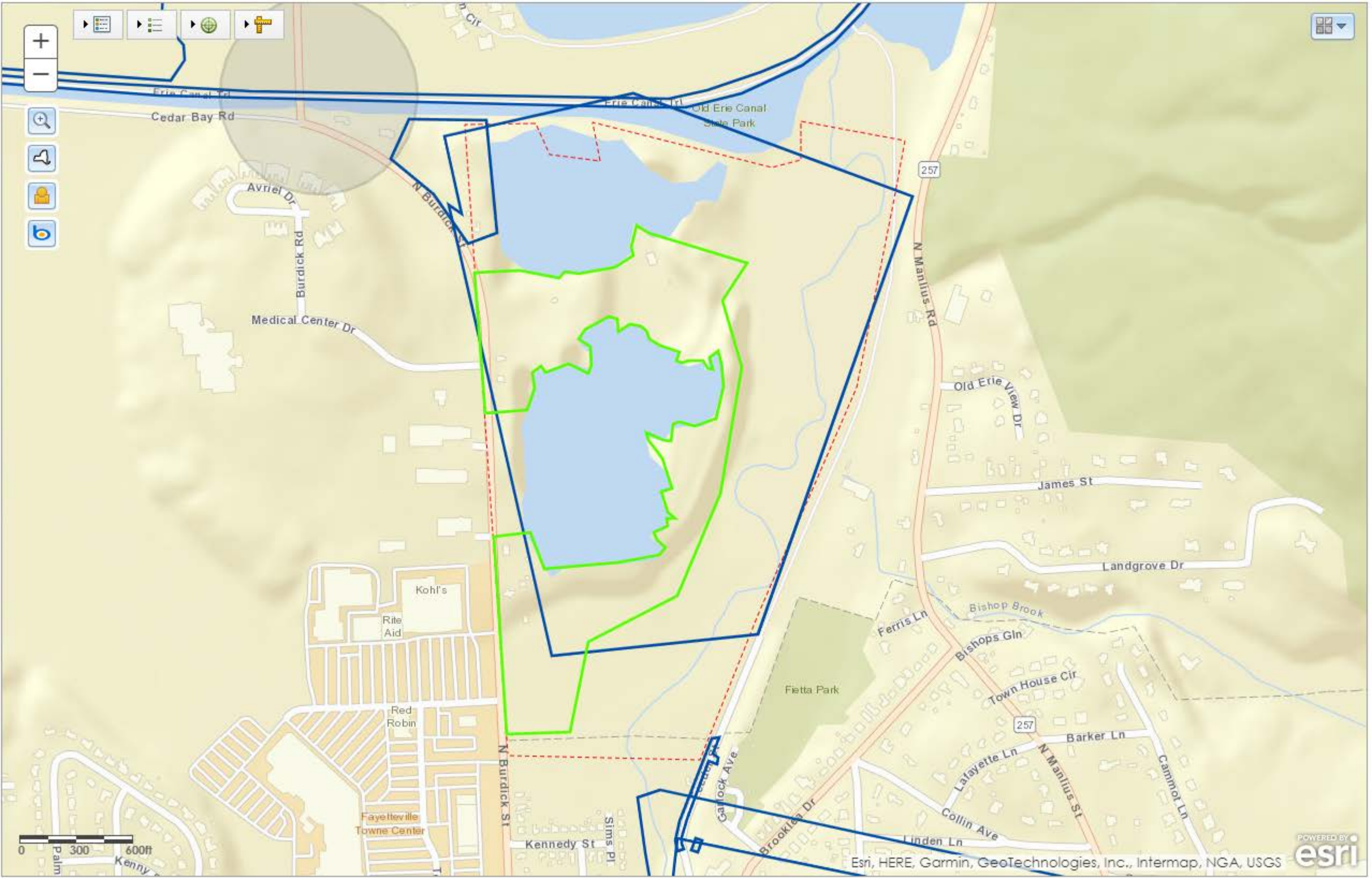
United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

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APPENDIX 3

HISTORIC PLACES OR ARCHEOLOGICAL RESOURCES



***Insert OPRHP Review Letter upon receipt
and remove this insert***

APPENDIX 4

*NOTICE OF INTENT (NOI) FOR
CONSTRUCTION ACTIVITIES
&
NYSDEC
ACKNOWLEDGEMENT LETTER*

***Insert NYSDEC Acknowledgement Letter
upon receipt and remove this insert***

APPENDIX 5

*DRAINAGE CALCULATIONS
& DRAINAGE PLANS (ED-1 & PD-1)*

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Smoothing	Yes
State	New York
Location	
Longitude	76.015 degrees West
Latitude	43.040 degrees North
Elevation	0 feet
Date/Time	Thu, 21 Apr 2022 14:20:05 -0400

Extreme Precipitation Estimates

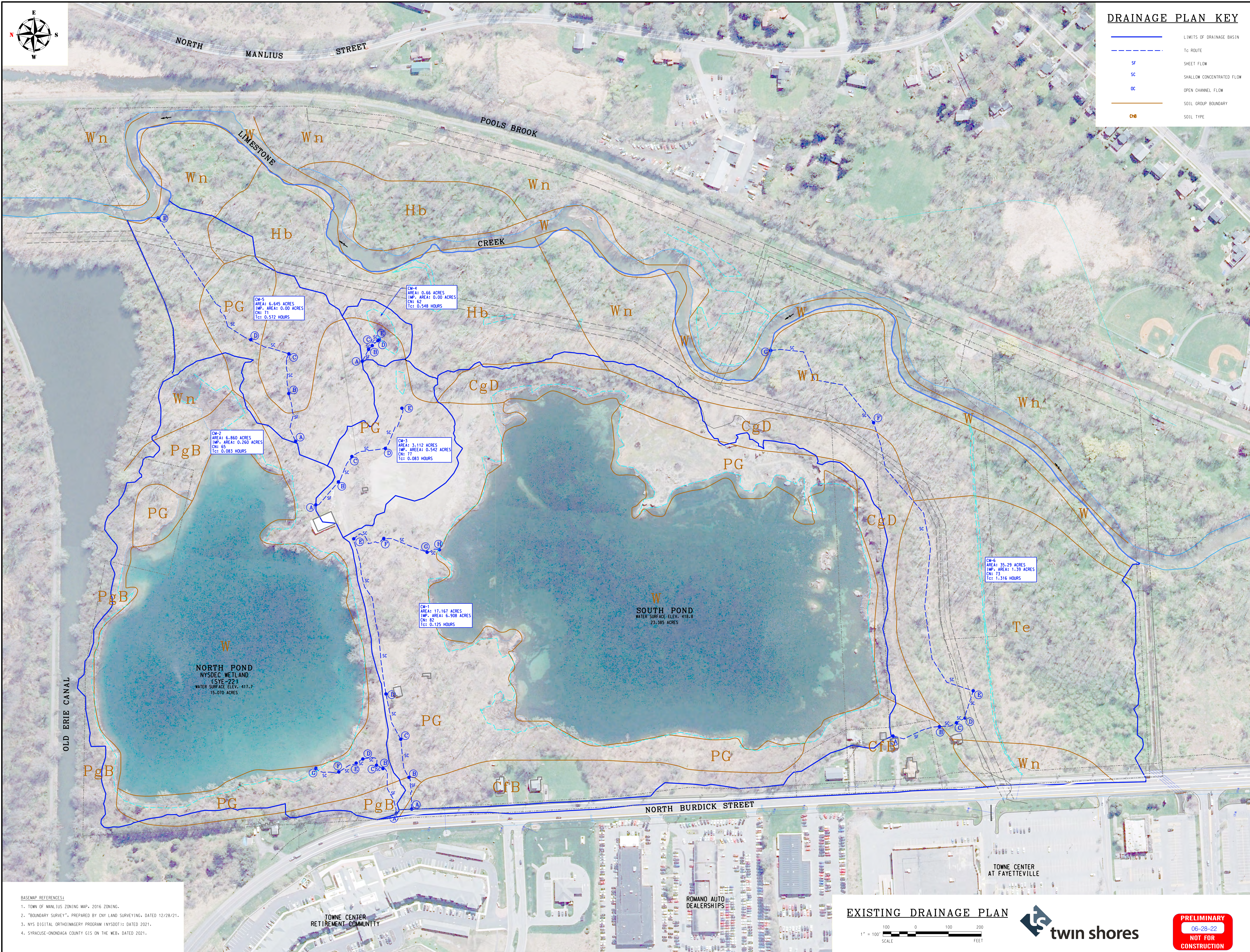
	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.28	0.43	0.53	0.70	0.87	1.07	1yr	0.75	0.97	1.21	1.46	1.73	2.05	2.29	1yr	1.81	2.20	2.63	3.17	3.69	1yr
2yr	0.33	0.50	0.63	0.83	1.04	1.28	2yr	0.90	1.16	1.45	1.73	2.04	2.39	2.69	2yr	2.11	2.58	3.03	3.64	4.21	2yr
5yr	0.39	0.61	0.76	1.02	1.31	1.62	5yr	1.13	1.44	1.83	2.17	2.54	2.93	3.32	5yr	2.60	3.19	3.71	4.38	5.00	5yr
10yr	0.44	0.70	0.88	1.20	1.56	1.93	10yr	1.34	1.69	2.19	2.59	3.00	3.43	3.89	10yr	3.04	3.74	4.34	5.04	5.70	10yr
25yr	0.53	0.84	1.07	1.48	1.96	2.44	25yr	1.69	2.10	2.76	3.25	3.73	4.22	4.82	25yr	3.73	4.63	5.33	6.08	6.78	25yr
50yr	0.60	0.96	1.24	1.74	2.34	2.93	50yr	2.02	2.47	3.32	3.87	4.41	4.94	5.66	50yr	4.37	5.45	6.22	7.00	7.73	50yr
100yr	0.70	1.13	1.45	2.06	2.80	3.50	100yr	2.42	2.92	3.96	4.60	5.21	5.78	6.66	100yr	5.12	6.40	7.28	8.06	8.82	100yr
200yr	0.80	1.30	1.69	2.42	3.35	4.19	200yr	2.89	3.45	4.73	5.47	6.15	6.77	7.84	200yr	5.99	7.54	8.51	9.28	10.06	200yr
500yr	0.97	1.60	2.09	3.03	4.24	5.32	500yr	3.66	4.31	5.98	6.87	7.65	8.35	9.73	500yr	7.39	9.35	10.48	11.20	11.99	500yr

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.25	0.38	0.46	0.63	0.77	0.88	1yr	0.66	0.86	0.92	1.10	1.40	1.65	2.04	1yr	1.46	1.96	2.39	2.78	3.32	1yr
2yr	0.32	0.49	0.61	0.82	1.02	1.14	2yr	0.88	1.11	1.27	1.56	1.90	2.32	2.61	2yr	2.06	2.51	2.93	3.55	4.10	2yr
5yr	0.36	0.55	0.68	0.94	1.19	1.35	5yr	1.03	1.32	1.49	1.86	2.27	2.72	3.08	5yr	2.41	2.96	3.46	4.10	4.70	5yr
10yr	0.39	0.60	0.74	1.04	1.34	1.50	10yr	1.16	1.47	1.68	2.08	2.54	3.06	3.47	10yr	2.71	3.34	3.90	4.55	5.19	10yr
25yr	0.44	0.66	0.83	1.18	1.55	1.73	25yr	1.34	1.69	1.97	2.41	2.93	3.54	4.04	25yr	3.13	3.88	4.56	5.21	5.94	25yr
50yr	0.46	0.71	0.88	1.26	1.70	1.92	50yr	1.47	1.87	2.21	2.67	3.25	3.94	4.50	50yr	3.49	4.33	5.12	5.78	6.55	50yr
100yr	0.50	0.76	0.95	1.38	1.89	2.31	100yr	1.63	2.26	2.49	2.96	3.60	4.36	5.01	100yr	3.86	4.82	5.75	6.38	7.24	100yr
200yr	0.54	0.82	1.03	1.50	2.09	2.63	200yr	1.80	2.57	2.78	3.27	3.98	4.83	5.58	200yr	4.27	5.37	6.44	7.03	7.98	200yr
500yr	0.84	1.25	1.61	2.34	3.33	3.13	500yr	2.87	3.06	3.21	3.74	4.55	5.50	6.40	500yr	4.87	6.16	7.46	7.96	9.09	500yr

Upper Confidence Limits

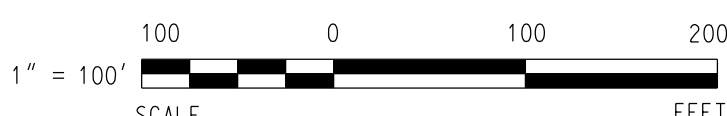
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DRAINAGE PLAN KEY	
	LIMITS OF DRAINAGE BASIN
	TO ROUTE
	SHEET FLOW
	SHALLOW CONCENTRATED FLOW
	OPEN CHANNEL FLOW
	SOIL GROUP BOUNDARY
	SOIL TYPE

- BASEMAP REFERENCES:
1. TOWN OF MANLIUS ZONING MAP, 2016 ZONING.
 2. "BOUNDARY SURVEY", PREPARED BY CNY LAND SURVEYING, DATED 12/28/21.
 3. NYS DIGITAL ORTHOIMAGERY PROGRAM (NYSOTI); DATED 2021.
 4. SYRACUSE-ONONDAGA COUNTY GIS ON THE WEB, DATED 2021.

EXISTING DRAINAGE PLAN



Engineering Associates, PC

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Civil • Marine • Site Development • Geotechnical • Structural • Environmental • Industrial • Lighting

PROVISIONS:	DATE:
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PROJECT: **TWIN LAKES MULTI-USE DEVELOPMENT**

CLIENT: **TWIN SHORES PROPERTIES, LLC**

LOCATION: **N BURKICK STREET TOWN OF MANLIUS, ONONDAGA COUNTY, NEW YORK**

DRAWING TITLE: **EXISTING DRAINAGE PLAN**

PROJECT No.: 2021054

SCALE: 1" = 100'

DATE: _____

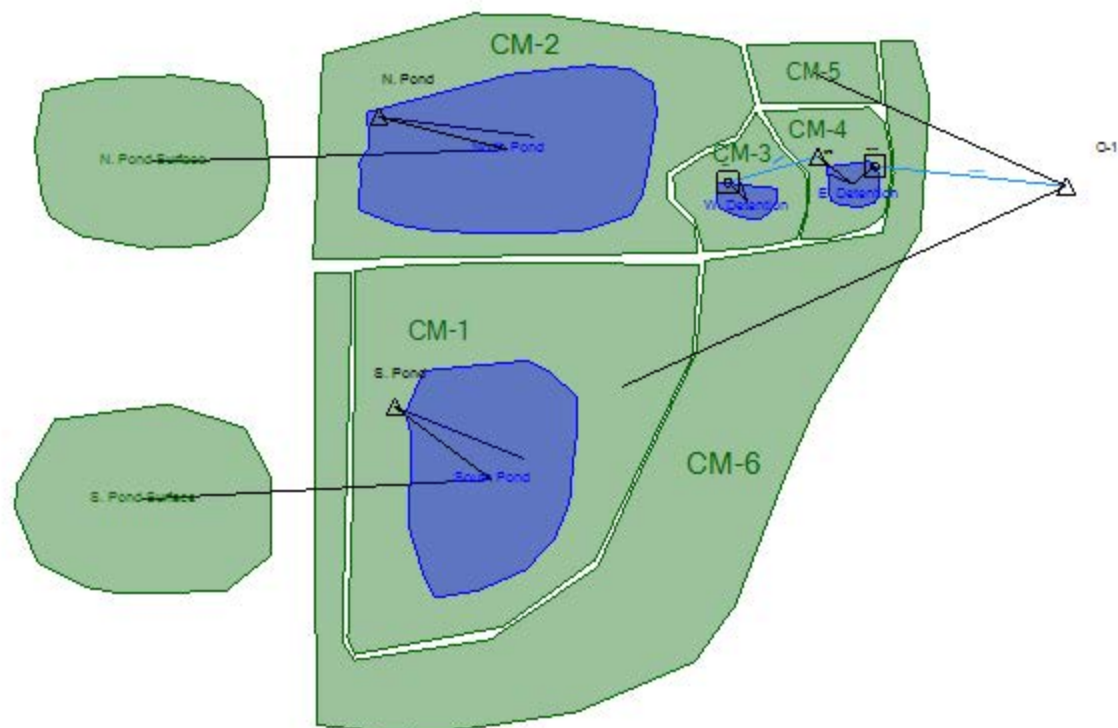
ENGD BY: SKO

DRAWN BY: NAR/DKC

CHECKED BY: JED

SHEET No. **ED-1**

Scenario: Pre-Development 1-yr, 24-hr



Project Summary	
Title	2021054 - Twin Shores - N. Burdick (Existing Conditions)
Engineer	SKO
Company	TDK Engineering Associates. P.C.
Date	4/28/2022
Notes	
Existing Conditions	

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Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
CM-6	Pre-Development 1-yr, 24-hr	1	0.976	12.850	3.75
CM-6	Pre-Development 2-yr, 24-hr	2	1.454	12.800	6.19
CM-6	Pre-Development 5-yr, 24-hr	5	2.334	12.800	10.89
CM-6	Pre-Development 10-yr, 24-hr	10	3.253	12.800	15.86
CM-6	Pre-Development 25-yr, 24-hr	25	4.854	12.800	24.52
CM-6	Pre-Development 50-yr, 24-hr	50	6.435	12.800	33.00
CM-6	Pre-Development 100-yr, 24-hr	100	8.385	12.650	43.52
CM-1	Pre-Development 1-yr, 24-hr	1	0.973	12.000	16.36
CM-1	Pre-Development 2-yr, 24-hr	2	1.311	11.950	22.52
CM-1	Pre-Development 5-yr, 24-hr	5	1.891	11.950	33.00
CM-1	Pre-Development 10-yr, 24-hr	10	2.464	11.950	43.21
CM-1	Pre-Development 25-yr, 24-hr	25	3.417	11.950	59.92
CM-1	Pre-Development 50-yr, 24-hr	50	4.322	11.950	75.51
CM-1	Pre-Development 100-yr, 24-hr	100	5.407	11.950	93.91
CM-2	Pre-Development 1-yr, 24-hr	1	0.085	12.000	0.74
CM-2	Pre-Development 2-yr, 24-hr	2	0.147	12.000	1.93
CM-2	Pre-Development 5-yr, 24-hr	5	0.271	12.000	4.23
CM-2	Pre-Development 10-yr, 24-hr	10	0.408	12.000	6.68
CM-2	Pre-Development 25-yr, 24-hr	25	0.661	11.950	11.51
CM-2	Pre-Development 50-yr, 24-hr	50	0.921	11.950	16.42
CM-2	Pre-Development 100-yr, 24-hr	100	1.251	11.950	22.57
N. Pond Surface	Pre-Development 1-yr, 24-hr	1	2.573	11.900	39.78
N. Pond Surface	Pre-Development 2-yr, 24-hr	2	2.999	11.900	46.38
N. Pond Surface	Pre-Development 5-yr, 24-hr	5	3.677	11.900	56.85

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
N. Pond Surface	Pre-Development 10-yr, 24-hr	10	4.304	11.900	66.56
N. Pond Surface	Pre-Development 25-yr, 24-hr	25	5.296	11.900	81.89
N. Pond Surface	Pre-Development 50-yr, 24-hr	50	6.199	11.900	95.86
N. Pond Surface	Pre-Development 100-yr, 24-hr	100	7.253	11.900	112.16
S. Pond Surface	Pre-Development 1-yr, 24-hr	1	3.992	11.900	61.73
S. Pond Surface	Pre-Development 2-yr, 24-hr	2	4.654	11.900	71.96
S. Pond Surface	Pre-Development 5-yr, 24-hr	5	5.706	11.900	88.22
S. Pond Surface	Pre-Development 10-yr, 24-hr	10	6.679	11.900	103.28
S. Pond Surface	Pre-Development 25-yr, 24-hr	25	8.218	11.900	127.07
S. Pond Surface	Pre-Development 50-yr, 24-hr	50	9.620	11.900	148.75
S. Pond Surface	Pre-Development 100-yr, 24-hr	100	11.256	11.900	174.04
CM-3	Pre-Development 1-yr, 24-hr	1	0.123	11.950	2.07
CM-3	Pre-Development 2-yr, 24-hr	2	0.174	11.950	3.04
CM-3	Pre-Development 5-yr, 24-hr	5	0.265	11.950	4.75
CM-3	Pre-Development 10-yr, 24-hr	10	0.357	11.950	6.45
CM-3	Pre-Development 25-yr, 24-hr	25	0.514	11.950	9.30
CM-3	Pre-Development 50-yr, 24-hr	50	0.666	11.900	12.06
CM-3	Pre-Development 100-yr, 24-hr	100	0.852	11.900	15.47
CM-4	Pre-Development 1-yr, 24-hr	1	0.005	12.650	0.01
CM-4	Pre-Development 2-yr, 24-hr	2	0.010	12.400	0.04
CM-4	Pre-Development 5-yr, 24-hr	5	0.020	12.350	0.12
CM-4	Pre-Development 10-yr, 24-hr	10	0.032	12.300	0.22
CM-4	Pre-Development 25-yr, 24-hr	25	0.053	12.250	0.43
CM-4	Pre-Development 50-yr, 24-hr	50	0.076	12.250	0.66

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
CM-4	Pre-Development 100-yr, 24-hr	100	0.106	12.200	0.95
CM-5	Pre-Development 1-yr, 24-hr	1	0.156	12.350	0.95
CM-5	Pre-Development 2-yr, 24-hr	2	0.239	12.300	1.69
CM-5	Pre-Development 5-yr, 24-hr	5	0.394	12.300	3.14
CM-5	Pre-Development 10-yr, 24-hr	10	0.559	12.250	4.74
CM-5	Pre-Development 25-yr, 24-hr	25	0.848	12.250	7.55
CM-5	Pre-Development 50-yr, 24-hr	50	1.137	12.250	10.33
CM-5	Pre-Development 100-yr, 24-hr	100	1.495	12.200	13.81

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-1	Pre-Development 1-yr, 24-hr	1	1.132	12.800	4.23
O-1	Pre-Development 2-yr, 24-hr	2	1.693	12.800	6.95
O-1	Pre-Development 5-yr, 24-hr	5	2.729	12.650	12.19
O-1	Pre-Development 10-yr, 24-hr	10	3.811	12.650	17.90
O-1	Pre-Development 25-yr, 24-hr	25	5.703	12.650	27.90
O-1	Pre-Development 50-yr, 24-hr	50	7.571	12.650	37.72
O-1	Pre-Development 100-yr, 24-hr	100	9.879	12.650	49.76

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
South Pond (IN)	Pre-Development 1-yr, 24-hr	1	4.965	11.900	74.85	(N/A)	(N/A)

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
South Pond (OUT)	Pre-Development 1-yr, 24-hr	1	0.000	0.000	0.00	419.01	4.965
South Pond (IN)	Pre-Development 2-yr, 24-hr	2	5.965	11.900	90.47	(N/A)	(N/A)
South Pond (OUT)	Pre-Development 2-yr, 24-hr	2	0.000	0.000	0.00	419.05	5.965
South Pond (IN)	Pre-Development 5-yr, 24-hr	5	7.597	11.900	115.99	(N/A)	(N/A)
South Pond (OUT)	Pre-Development 5-yr, 24-hr	5	0.000	0.000	0.00	419.12	7.597
South Pond (IN)	Pre-Development 10-yr, 24-hr	10	9.143	11.900	140.16	(N/A)	(N/A)
South Pond (OUT)	Pre-Development 10-yr, 24-hr	10	0.000	0.000	0.00	419.18	9.143
South Pond (IN)	Pre-Development 25-yr, 24-hr	25	11.635	11.900	178.99	(N/A)	(N/A)
South Pond (OUT)	Pre-Development 25-yr, 24-hr	25	0.000	0.000	0.00	419.29	11.635
South Pond (IN)	Pre-Development 50-yr, 24-hr	50	13.941	11.900	214.79	(N/A)	(N/A)
South Pond (OUT)	Pre-Development 50-yr, 24-hr	50	0.000	0.000	0.00	419.38	13.941
South Pond (IN)	Pre-Development 100-yr, 24-hr	100	16.663	11.900	256.84	(N/A)	(N/A)
South Pond (OUT)	Pre-Development 100-yr, 24-hr	100	0.000	0.000	0.00	419.50	16.663
North Pond (IN)	Pre-Development 1-yr, 24-hr	1	2.657	11.900	39.81	(N/A)	(N/A)
North Pond (OUT)	Pre-Development 1-yr, 24-hr	1	0.000	0.000	0.00	417.87	2.657

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
North Pond (IN)	Pre-Development 2-yr, 24-hr	2	3.146	11.900	47.09	(N/A)	(N/A)
North Pond (OUT)	Pre-Development 2-yr, 24-hr	2	0.000	0.000	0.00	417.91	3.146
North Pond (IN)	Pre-Development 5-yr, 24-hr	5	3.947	11.900	59.86	(N/A)	(N/A)
North Pond (OUT)	Pre-Development 5-yr, 24-hr	5	0.000	0.000	0.00	417.96	3.947
North Pond (IN)	Pre-Development 10-yr, 24-hr	10	4.713	11.900	72.20	(N/A)	(N/A)
North Pond (OUT)	Pre-Development 10-yr, 24-hr	10	0.000	0.000	0.00	418.01	4.713
North Pond (IN)	Pre-Development 25-yr, 24-hr	25	5.957	11.900	92.37	(N/A)	(N/A)
North Pond (OUT)	Pre-Development 25-yr, 24-hr	25	0.000	0.000	0.00	418.09	5.957
North Pond (IN)	Pre-Development 50-yr, 24-hr	50	7.120	11.900	111.30	(N/A)	(N/A)
North Pond (OUT)	Pre-Development 50-yr, 24-hr	50	0.000	0.000	0.00	418.16	7.120
North Pond (IN)	Pre-Development 100-yr, 24-hr	100	8.505	11.900	133.89	(N/A)	(N/A)
North Pond (OUT)	Pre-Development 100-yr, 24-hr	100	0.000	0.000	0.00	418.25	8.505
W. Detention (IN)	Pre-Development 1-yr, 24-hr	1	0.123	11.950	2.07	(N/A)	(N/A)
W. Detention (OUT)	Pre-Development 1-yr, 24-hr	1	0.000	0.000	0.00	421.33	0.123
W. Detention (IN)	Pre-Development 2-yr, 24-hr	2	0.174	11.950	3.04	(N/A)	(N/A)

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
W. Detention (OUT)	Pre-Development 2-yr, 24-hr	2	0.000	0.000	0.00	421.72	0.174
W. Detention (IN)	Pre-Development 5-yr, 24-hr	5	0.265	11.950	4.75	(N/A)	(N/A)
W. Detention (OUT)	Pre-Development 5-yr, 24-hr	5	0.000	0.000	0.00	422.34	0.265
W. Detention (IN)	Pre-Development 10-yr, 24-hr	10	0.357	11.950	6.45	(N/A)	(N/A)
W. Detention (OUT)	Pre-Development 10-yr, 24-hr	10	0.000	0.000	0.00	422.92	0.357
W. Detention (IN)	Pre-Development 25-yr, 24-hr	25	0.514	11.950	9.30	(N/A)	(N/A)
W. Detention (OUT)	Pre-Development 25-yr, 24-hr	25	0.000	0.000	0.00	423.66	0.514
W. Detention (IN)	Pre-Development 50-yr, 24-hr	50	0.666	11.900	12.06	(N/A)	(N/A)
W. Detention (OUT)	Pre-Development 50-yr, 24-hr	50	0.000	0.000	0.00	424.26	0.666
W. Detention (IN)	Pre-Development 100-yr, 24-hr	100	0.852	11.900	15.47	(N/A)	(N/A)
W. Detention (OUT)	Pre-Development 100-yr, 24-hr	100	0.000	0.000	0.00	424.90	0.852
E. Detention (IN)	Pre-Development 1-yr, 24-hr	1	0.005	12.650	0.01	(N/A)	(N/A)
E. Detention (OUT)	Pre-Development 1-yr, 24-hr	1	0.000	0.000	0.00	419.05	0.005
E. Detention (IN)	Pre-Development 2-yr, 24-hr	2	0.010	12.400	0.04	(N/A)	(N/A)
E. Detention (OUT)	Pre-Development 2-yr, 24-hr	2	0.000	0.000	0.00	419.10	0.010

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
E. Detention (IN)	Pre- Development 5-yr, 24-hr	5	0.020	12.350	0.12	(N/A)	(N/A)
E. Detention (OUT)	Pre- Development 5-yr, 24-hr	5	0.000	0.000	0.00	419.20	0.020
E. Detention (IN)	Pre- Development 10-yr, 24-hr	10	0.032	12.300	0.22	(N/A)	(N/A)
E. Detention (OUT)	Pre- Development 10-yr, 24-hr	10	0.000	0.000	0.00	419.32	0.032
E. Detention (IN)	Pre- Development 25-yr, 24-hr	25	0.053	12.250	0.43	(N/A)	(N/A)
E. Detention (OUT)	Pre- Development 25-yr, 24-hr	25	0.000	0.000	0.00	419.53	0.053
E. Detention (IN)	Pre- Development 50-yr, 24-hr	50	0.076	12.250	0.66	(N/A)	(N/A)
E. Detention (OUT)	Pre- Development 50-yr, 24-hr	50	0.000	0.000	0.00	419.76	0.076
E. Detention (IN)	Pre- Development 100-yr, 24-hr	100	0.106	12.200	0.95	(N/A)	(N/A)
E. Detention (OUT)	Pre- Development 100-yr, 24-hr	100	0.000	0.000	0.00	420.03	0.106

Subsection: Time of Concentration Calculations

Label: CM-1

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.053 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	1.76 ft/s
Segment Time of Concentration	0.016 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	120.90 ft
Is Paved?	False
Slope	0.047 ft/ft
Average Velocity	3.50 ft/s
Segment Time of Concentration	0.010 hours
Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	146.90 ft
Is Paved?	False
Slope	0.014 ft/ft
Average Velocity	1.88 ft/s
Segment Time of Concentration	0.022 hours
Segment #4: TR-55 Shallow Concentrated Flow	
Hydraulic Length	487.90 ft
Is Paved?	False
Slope	0.025 ft/ft
Average Velocity	2.53 ft/s
Segment Time of Concentration	0.054 hours
Segment #5: TR-55 Shallow Concentrated Flow	
Hydraulic Length	118.20 ft
Is Paved?	False
Slope	0.042 ft/ft
Average Velocity	3.32 ft/s
Segment Time of Concentration	0.010 hours
Segment #6: TR-55 Shallow Concentrated Flow	

Subsection: Time of Concentration Calculations

Label: CM-1

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Segment #6: TR-55 Shallow Concentrated Flow

Hydraulic Length	138.80 ft
Is Paved?	False
Slope	0.036 ft/ft
Average Velocity	3.06 ft/s
Segment Time of Concentration	0.013 hours

Segment #7: TR-55 Shallow Concentrated Flow

Hydraulic Length	40.00 ft
Is Paved?	False
Slope	0.205 ft/ft
Average Velocity	7.31 ft/s
Segment Time of Concentration	0.002 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.125 hours
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Subsection: Time of Concentration Calculations

Label: CM-1

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where:

$$(L_f / V) / 3600$$

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where:

$$(L_f / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Time of Concentration Calculations

Label: CM-2

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

Hydraulic Length	150.00 ft
Manning's n	0.011
Slope	0.060 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	2.00 ft/s
Segment Time of Concentration	0.021 hours

Segment #2: TR-55 Shallow Concentrated Flow

Hydraulic Length	22.20 ft
Is Paved?	False
Slope	0.473 ft/ft
Average Velocity	11.10 ft/s
Segment Time of Concentration	0.001 hours

Segment #3: TR-55 Shallow Concentrated Flow

Hydraulic Length	62.55 ft
Is Paved?	False
Slope	0.208 ft/ft
Average Velocity	7.35 ft/s
Segment Time of Concentration	0.002 hours

Segment #4: TR-55 Shallow Concentrated Flow

Hydraulic Length	23.80 ft
Is Paved?	False
Slope	0.231 ft/ft
Average Velocity	7.76 ft/s
Segment Time of Concentration	0.001 hours

Segment #5: TR-55 Shallow Concentrated Flow

Hydraulic Length	60.45 ft
Is Paved?	False
Slope	0.099 ft/ft
Average Velocity	5.08 ft/s
Segment Time of Concentration	0.003 hours

Segment #6: TR-55 Shallow Concentrated Flow

Subsection: Time of Concentration Calculations

Label: CM-2

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Segment #6: TR-55 Shallow Concentrated Flow

Hydraulic Length	75.10 ft
Is Paved?	False
Slope	0.017 ft/ft
Average Velocity	2.12 ft/s
Segment Time of Concentration	0.010 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.083 hours
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Subsection: Time of Concentration Calculations

Label: CM-2

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where:

$$(L_f / V) / 3600$$

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where:

$$(L_f / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Time of Concentration Calculations

Label: CM-3

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.017 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	1.11 ft/s
Segment Time of Concentration	0.025 hours

Segment #2: TR-55 Shallow Concentrated Flow

Hydraulic Length	88.30 ft
Is Paved?	False
Slope	0.026 ft/ft
Average Velocity	2.61 ft/s
Segment Time of Concentration	0.009 hours

Segment #3: TR-55 Shallow Concentrated Flow

Hydraulic Length	106.70 ft
Is Paved?	False
Slope	0.047 ft/ft
Average Velocity	3.49 ft/s
Segment Time of Concentration	0.008 hours

Segment #4: TR-55 Shallow Concentrated Flow

Hydraulic Length	139.00 ft
Is Paved?	False
Slope	0.043 ft/ft
Average Velocity	3.35 ft/s
Segment Time of Concentration	0.012 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.083 hours
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Subsection: Time of Concentration Calculations

Label: CM-3

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{2/3}) * (Sf^{-0.5})) / n$

Where: $(Lf / V) / 3600$
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
 $V = 16.1345 * (Sf^{0.5})$

Paved Surface:
 $V = 20.3282 * (Sf^{0.5})$

Where: $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Time of Concentration Calculations

Label: CM-4

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	42.30 ft
Manning's n	0.400
Slope	0.003 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	0.03 ft/s
Segment Time of Concentration	0.427 hours
Segment #2: TR-55 Sheet Flow	
Hydraulic Length	16.30 ft
Manning's n	0.400
Slope	0.119 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.047 hours
Segment #3: TR-55 Sheet Flow	
Hydraulic Length	23.80 ft
Manning's n	0.400
Slope	0.126 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.063 hours
Segment #4: TR-55 Sheet Flow	
Hydraulic Length	5.60 ft
Manning's n	0.400
Slope	0.536 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.548 hours

Subsection: Time of Concentration Calculations

Label: CM-4

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

==== SCS Channel Flow

$$T_c = \frac{R}{V}$$
$$R = \frac{Q_a}{W_p}$$
$$V = \frac{1.49 * (R^{2/3}) * (S_f^{0.5})}{n}$$

Where:

$\frac{(L_f / V)}{3600}$

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Time of Concentration Calculations

Label: CM-5

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	150.00 ft
Manning's n	0.400
Slope	0.034 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.462 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	123.90 ft
Is Paved?	False
Slope	0.042 ft/ft
Average Velocity	3.31 ft/s
Segment Time of Concentration	0.010 hours
Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	124.30 ft
Is Paved?	False
Slope	0.014 ft/ft
Average Velocity	1.88 ft/s
Segment Time of Concentration	0.018 hours
Segment #4: TR-55 Shallow Concentrated Flow	
Hydraulic Length	481.90 ft
Is Paved?	False
Slope	0.011 ft/ft
Average Velocity	1.65 ft/s
Segment Time of Concentration	0.081 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.572 hours

Subsection: Time of Concentration Calculations

Label: CM-5

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{2/3}) * (Sf^{*-0.5})) / n$

Where: $(Lf / V) / 3600$
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
 $V = 16.1345 * (Sf^{*0.5})$

Paved Surface:
 $V = 20.3282 * (Sf^{*0.5})$

Where: $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Time of Concentration Calculations

Label: CM-6

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

Hydraulic Length	150.00 ft
Manning's n	0.800
Slope	0.072 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	0.07 ft/s
Segment Time of Concentration	0.599 hours

Segment #2: TR-55 Shallow Concentrated Flow

Hydraulic Length	67.60 ft
Is Paved?	False
Slope	0.034 ft/ft
Average Velocity	2.96 ft/s
Segment Time of Concentration	0.006 hours

Segment #3: TR-55 Shallow Concentrated Flow

Hydraulic Length	29.98 ft
Is Paved?	False
Slope	0.533 ft/ft
Average Velocity	11.78 ft/s
Segment Time of Concentration	0.001 hours

Segment #4: TR-55 Shallow Concentrated Flow

Hydraulic Length	86.80 ft
Is Paved?	False
Slope	0.027 ft/ft
Average Velocity	2.67 ft/s
Segment Time of Concentration	0.009 hours

Segment #5: TR-55 Shallow Concentrated Flow

Hydraulic Length	941.30 ft
Is Paved?	False
Slope	0.001 ft/ft
Average Velocity	0.43 ft/s
Segment Time of Concentration	0.613 hours

Segment #6: TR-55 Shallow Concentrated Flow

Subsection: Time of Concentration Calculations

Label: CM-6

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Segment #6: TR-55 Shallow Concentrated Flow

Hydraulic Length	427.75 ft
Is Paved?	False
Slope	0.007 ft/ft
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.088 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	1.316 hours
-----------------------------------	-------------

Subsection: Time of Concentration Calculations

Label: CM-6

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where:

$$(L_f / V) / 3600$$

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where:

$$(L_f / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Runoff CN-Area

Label: CM-1

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Brush - brush, weed, grass mix - good - Soil C	65.000	1.459	0.0	0.0	65.000
Woods - good - Soil C	70.000	1.784	0.0	0.0	70.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	0.494	0.0	0.0	74.000
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil C	98.000	0.196	0.0	0.0	98.000
Woods - good - Soil D	77.000	0.927	0.0	0.0	77.000
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil D	98.000	6.712	0.0	0.0	98.000
Brush - brush, weed, grass mix - good - Soil D	73.000	5.595	0.0	0.0	73.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	17.167	(N/A)	(N/A)	82.313

Subsection: Runoff CN-Area

Label: CM-2

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	0.099	0.0	0.0	98.000
Brush - brush, weed, grass mix - good - Soil A	30.000	1.699	0.0	0.0	30.000
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil D	98.000	0.161	0.0	0.0	98.000
Woods - good - Soil D	77.000	2.498	0.0	0.0	77.000
Brush - brush, weed, grass mix - good - Soil D	73.000	2.403	0.0	0.0	73.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	6.860	(N/A)	(N/A)	64.754

Subsection: Runoff CN-Area

Label: CM-3

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil D	98.000	0.542	0.0	0.0	98.000
Brush - brush, weed, grass mix - good - Soil D	73.000	2.570	0.0	0.0	73.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.112	(N/A)	(N/A)	77.354

Subsection: Runoff CN-Area

Label: CM-4

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Brush - brush, weed, grass mix - good - Soil B	48.000	0.295	0.0	0.0	48.000
Brush - brush, weed, grass mix - good - Soil D	73.000	0.365	0.0	0.0	73.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.660	(N/A)	(N/A)	61.826

Subsection: Runoff CN-Area

Label: CM-5

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Brush - brush, weed, grass mix - good - Soil D	73.000	1.856	0.0	0.0	73.000
Woods - good - Soil B	55.000	1.464	0.0	0.0	55.000
Woods - good - Soil D	77.000	3.325	0.0	0.0	77.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	6.645	(N/A)	(N/A)	71.036

Subsection: Runoff CN-Area

Label: CM-6

Scenario: Pre-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil C	98.000	1.390	0.0	0.0	98.000
Brush - brush, weed, grass mix - good - Soil C	65.000	1.330	0.0	0.0	65.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	0.069	0.0	0.0	74.000
Woods - good - Soil B	55.000	6.426	0.0	0.0	55.000
Woods - good - Soil C	70.000	2.484	0.0	0.0	70.000
Woods - good - Soil D	77.000	23.593	0.0	0.0	77.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	35.292	(N/A)	(N/A)	72.871

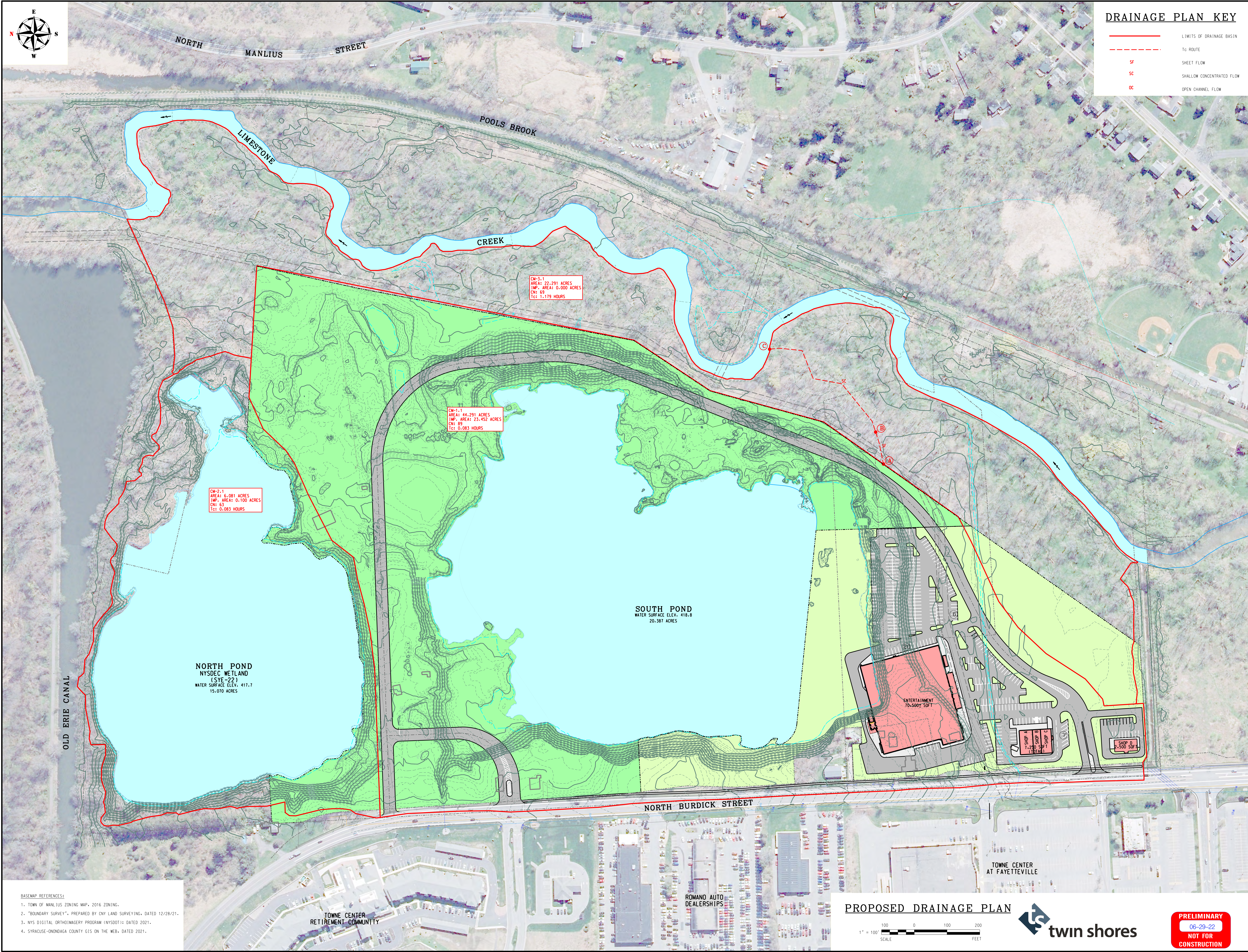
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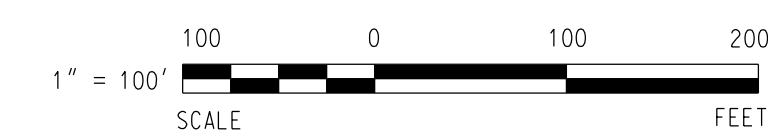
DRAINAGE PLAN KEY	
	LIMITS OF DRAINAGE BASIN
	TO ROUTE
	SHEET FLOW
	SHALLOW CONCENTRATED FLOW
	OPEN CHANNEL FLOW

- BASEMAP REFERENCES:
1. TOWN OF MANLIUS ZONING MAP, 2016 ZONING.
 2. "BOUNDARY SURVEY", PREPARED BY CNY LAND SURVEYING, DATED 12/28/21.
 3. NYS DIGITAL ORTHOIMAGERY PROGRAM (NYSOTI): DATED 2021.
 4. SYRACUSE-ONONDAGA COUNTY GIS ON THE WEB, DATED 2021.

TOWNE CENTER
RETIREMENT COMMUNITY

ROMANO AUTO
DEALERSHIPS

PROPOSED DRAINAGE PLAN



PRELIMINARY
06-29-22
**NOT FOR
CONSTRUCTION**

TDK Engineering Associates, PC

19 Genesee Street, Camillus, NY 13031 • Tel: (315) 692-5226 • Fax: (315) 692-9732
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Civil • Marine • Site Development • Geotechnical • Structural • Environmental • Industrial • Lighting

PROVISIONS:

DATE:

PROJECT: **TWIN LAKES MULTI-USE DEVELOPMENT**

CLIENT: **TWIN SHORES PROPERTIES, LLC**

LOCATION: **N. BURKIC STREET, TOWN OF MANLIUS, ONONDAGA COUNTY, NEW YORK**

DRAWING TITLE: **PROPOSED DRAINAGE PLAN**

PROJECT No.: 2021054

SCALE: 1" = 100'

DATE:

ENGD BY: SKO

DRAWN BY: NAR/DKC

CHECKED BY: JED

SHEET NO.: **PD-1**

Project Summary	
Title	2021054 - Twin Lakes - N. Burdick (Proposed Conditions)
Engineer	SKO
Company	TDK Engineering Associates. P.C.
Date	6/28/2022
Notes	Proposed Conditions

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Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
CM-1.1	Post-Development 1-yr, 24-hr	1	3.943	11.900	71.34
CM-1.1	Post-Development 10-yr, 24-hr	10	8.453	11.900	152.89
CM-1.1	Post-Development 100-yr, 24-hr	100	16.677	11.900	294.31
CM-2.1	Post-Development 1-yr, 24-hr	1	0.057	12.050	0.35
CM-2.1	Post-Development 10-yr, 24-hr	10	0.316	12.000	5.07
CM-2.1	Post-Development 100-yr, 24-hr	100	1.024	11.950	18.37
CM-3.1	Post-Development 1-yr, 24-hr	1	0.422	12.900	1.44
CM-3.1	Post-Development 10-yr, 24-hr	10	1.655	12.700	8.21
CM-3.1	Post-Development 100-yr, 24-hr	100	4.634	12.600	25.75
So. Pond Storage	Post-Development 1-yr, 24-hr	1	3.480	11.900	53.81
So. Pond Storage	Post-Development 10-yr, 24-hr	10	5.823	11.900	90.04
So. Pond Storage	Post-Development 100-yr, 24-hr	100	9.813	11.900	151.73
No. Pond Storage	Post-Development 1-yr, 24-hr	1	2.573	11.900	39.78
No. Pond Storage	Post-Development 10-yr, 24-hr	10	4.304	11.900	66.56
No. Pond Storage	Post-Development 100-yr, 24-hr	100	7.253	11.900	112.16

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-1	Post-Development 1-yr, 24-hr	1	0.422	12.900	1.44
O-1	Post-Development 10-yr, 24-hr	10	1.655	12.700	8.21
O-1	Post-Development 100-yr, 24-hr	100	4.634	12.600	25.75

Pond Summary

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
So. Pond (IN)	Post-Development 1-yr, 24-hr	1	7.423	11.900	125.16	(N/A)	(N/A)
So. Pond (OUT)	Post-Development 1-yr, 24-hr	1	0.000	0.000	0.00	419.11	7.423
So. Pond (IN)	Post-Development 10-yr, 24-hr	10	14.276	11.900	242.93	(N/A)	(N/A)
So. Pond (OUT)	Post-Development 10-yr, 24-hr	10	0.000	0.000	0.00	419.40	14.276
So. Pond (IN)	Post-Development 100-yr, 24-hr	100	26.489	11.900	446.04	(N/A)	(N/A)
So. Pond (OUT)	Post-Development 100-yr, 24-hr	100	0.000	0.000	0.00	419.90	26.489
No. Pond (IN)	Post-Development 1-yr, 24-hr	1	2.630	11.900	39.78	(N/A)	(N/A)
No. Pond (OUT)	Post-Development 1-yr, 24-hr	1	0.000	0.000	0.00	417.87	2.630
No. Pond (IN)	Post-Development 10-yr, 24-hr	10	4.621	11.900	70.52	(N/A)	(N/A)
No. Pond (OUT)	Post-Development 10-yr, 24-hr	10	0.000	0.000	0.00	418.00	4.621
No. Pond (IN)	Post-Development 100-yr, 24-hr	100	8.278	11.900	129.63	(N/A)	(N/A)
No. Pond (OUT)	Post-Development 100-yr, 24-hr	100	0.000	0.000	0.00	418.24	8.278

Subsection: Time of Concentration Calculations

Label: CM-3.1

Scenario: Post-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

Hydraulic Length	100.00 ft
Manning's n	0.800
Slope	0.008 ft/ft
2 Year 24 Hour Depth	2.4 in
Average Velocity	0.03 ft/s
Segment Time of Concentration	1.065 hours

Segment #2: TR-55 Shallow Concentrated Flow

Hydraulic Length	462.70 ft
Is Paved?	False
Slope	0.005 ft/ft
Average Velocity	1.13 ft/s
Segment Time of Concentration	0.114 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	1.179 hours
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Subsection: Time of Concentration Calculations

Label: CM-3.1

Scenario: Post-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{2/3}) * (Sf^{*-0.5})) / n$

Where: $(Lf / V) / 3600$
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
 $V = 16.1345 * (Sf^{*0.5})$

Paved Surface:
 $V = 20.3282 * (Sf^{*0.5})$

Where: $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Runoff CN-Area

Label: CM-1.1

Scenario: Post-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil D	98.000	23.452	0.0	0.0	98.000
Woods - good - Soil C	70.000	0.900	0.0	0.0	70.000
Woods - good - Soil D	77.000	1.009	0.0	0.0	77.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil D	80.000	18.930	0.0	0.0	80.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	44.291	(N/A)	(N/A)	89.259

Subsection: Runoff CN-Area

Label: CM-2.1

Scenario: Post-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil D	98.000	0.100	0.0	0.0	98.000
Woods - good - Soil D	77.000	2.498	0.0	0.0	77.000
Brush - brush, weed, grass mix - good - Soil A	30.000	1.699	0.0	0.0	30.000
Brush - brush, weed, grass mix - good - Soil D	73.000	1.784	0.0	0.0	73.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	6.081	(N/A)	(N/A)	63.040

Subsection: Runoff CN-Area

Label: CM-3.1

Scenario: Post-Development 1-yr, 24-hr

Return Event: 1 years

Storm Event: 1-yr, 24-hr [2.05"]

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Brush - brush, weed, grass mix - good - Soil C	65.000	1.330	0.0	0.0	65.000
Woods - good - Soil B	55.000	6.426	0.0	0.0	55.000
Woods - good - Soil C	70.000	2.484	0.0	0.0	70.000
Woods - good - Soil D	77.000	12.051	0.0	0.0	77.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	22.291	(N/A)	(N/A)	69.162

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CM-1.1 (Runoff CN-Area, 1 years (Post-Development 1-yr, 24-hr))...6

CM-2.1 (Runoff CN-Area, 1 years (Post-Development 1-yr, 24-hr))...7

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APPENDIX 6

CONSTRUCTION INSPECTION CHECKLIST(S)

Bioretention Construction Inspection Checklist

Project:
Location:
Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Pre-Construction		
Pre-construction meeting		
Runoff diverted		
Facility area cleared		
If designed as exfilter, soil testing for permeability		
Facility location staked out		
2. Excavation		
Size and location		
Lateral slopes completely level		
If designed as exfilter, ensure that excavation does not compact subsoils.		
Longitudinal slopes within design range		

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
3. Structural Components		
Stone diaphragm installed correctly		
Outlets installed correctly		
Underdrain		
Pretreatment devices installed		
Soil bed composition and texture		
4. Vegetation		
Complies with planting specs		
Topsoil adequate in composition and placement		
Adequate erosion control measures in place		
5. Final Inspection		
Dimensions		
Proper stone diaphragm		
Proper outlet		
Soil/ filter bed permeability testing		
Effective stand of vegetation and stabilization		
Construction generated sediments removed		
Contributing watershed stabilized before flow is diverted to the practice		

Comments:This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

Actions to be Taken:

[illegible]

Open Channel System Construction Inspection Checklist

Project: _____

Location: _____

Site Status: _____

Date: _____

Time: _____

Inspector: _____

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Pre-Construction		
Pre-construction meeting		
Runoff diverted		
Facility location staked out		
2. Excavation		
Size and location		
Side slope stable		
Soil permeability		
Groundwater / bedrock		
Lateral slopes completely level		
Longitudinal slopes within design range		
Excavation does not compact subsoils		
3. Check dams		
Dimensions		
Spacing		
Materials		

Comments:[illegible]

Actions to be Taken:

[illegible]

Stormwater/Wetland Pond Construction Inspection Checklist

Project:

Location:

Site Status:

Date:

Time:

Inspector:

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
Pre-Construction/Materials and Equipment		
Pre-construction meeting		
Pipe and appurtenances on-site prior to construction and dimensions checked		
1. Material (including protective coating, if specified)		
2. Diameter		
3. Dimensions of metal riser or pre-cast concrete outlet structure		
4. Required dimensions between water control structures (orifices, weirs, etc.) are in accordance with approved plans		
5. Barrel stub for prefabricated pipe structures at proper angle for design barrel slope		
6. Number and dimensions of prefabricated anti-seep collars		
7. Watertight connectors and gaskets		
8. Outlet drain valve		
Project benchmark near pond site		
Equipment for temporary de-watering		

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
2. Subgrade Preparation		
Area beneath embankment stripped of all vegetation, topsoil, and organic matter		
3. Pipe Spillway Installation		
Method of installation detailed on plans		
A. Bed preparation		
Installation trench excavated with specified side slopes		
Stable, uniform, dry subgrade of relatively impervious material (If subgrade is wet, contractor shall have defined steps before proceeding with installation)		
Invert at proper elevation and grade		
B. Pipe placement		
Metal / plastic pipe		
1. Watertight connectors and gaskets properly installed		
2. Anti-seep collars properly spaced and having watertight connections to pipe		
3. Backfill placed and tamped by hand under “haunches” of pipe		
4. Remaining backfill placed in max. 8 inch lifts using small power tamping equipment until 2 feet cover over pipe is reached		

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
3. Pipe Spillway Installation		
Concrete pipe		
1. Pipe set on blocks or concrete slab for pouring of low cradle		
2. Pipe installed with rubber gasket joints with no spalling in gasket interface area		
3. Excavation for lower half of anti-seep collar(s) with reinforcing steel set		
4. Entire area where anti-seep collar(s) will come in contact with pipe coated with mastic or other approved waterproof sealant		
5. Low cradle and bottom half of anti-seep collar installed as monolithic pour and of an approved mix		
6. Upper half of anti-seep collar(s) formed with reinforcing steel set		
7. Concrete for collar of an approved mix and vibrated into place (protected from freezing while curing, if necessary)		
8. Forms stripped and collar inspected for honeycomb prior to backfilling. Parge if necessary.		
C. Backfilling		
Fill placed in maximum 8 inch lifts		
Backfill taken minimum 2 feet above top of anti-seep collar elevation before traversing with heavy equipment		

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
4. Riser / Outlet Structure Installation		
Riser located within embankment		
A. Metal riser		
Riser base excavated or formed on stable subgrade to design dimensions		
Set on blocks to design elevations and plumbed		
Reinforcing bars placed at right angles and projecting into sides of riser		
Concrete poured so as to fill inside of riser to invert of barrel		
B. Pre-cast concrete structure		
Dry and stable subgrade		
Riser base set to design elevation		
If more than one section, no spalling in gasket interface area; gasket or approved caulking material placed securely		
Watertight and structurally sound collar or gasket joint where structure connects to pipe spillway		
C. Poured concrete structure		
Footing excavated or formed on stable subgrade, to design dimensions with reinforcing steel set		
Structure formed to design dimensions, with reinforcing steel set as per plan		
Concrete of an approved mix and vibrated into place (protected from freezing while curing, if necessary)		
Forms stripped & inspected for "honeycomb" prior to backfilling; parge if necessary		

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
5. Embankment Construction		
Fill material		
Compaction		
Embankment		
1. Fill placed in specified lifts and compacted with appropriate equipment		
2. Constructed to design cross-section, side slopes and top width		
3. Constructed to design elevation plus allowance for settlement		
6. Impounded Area Construction		
Excavated / graded to design contours and side slopes		
Inlet pipes have adequate outfall protection		
Forebay(s)		
Pond benches		
7. Earth Emergency Spillway Construction		
Spillway located in cut or structurally stabilized with riprap, gabions, concrete, etc.		
Excavated to proper cross-section, side slopes and bottom width		
Entrance channel, crest, and exit channel constructed to design grades and elevations		

CONSTRUCTION SEQUENCE	SATISFACTORY / UNSATISFACTORY	COMMENTS
8. Outlet Protection		
A. End section		
Securely in place and properly backfilled		
B. Endwall		
Footing excavated or formed on stable subgrade, to design dimensions and reinforcing steel set, if specified		
Endwall formed to design dimensions with reinforcing steel set as per plan		
Concrete of an approved mix and vibrated into place (protected from freezing, if necessary)		
Forms stripped and structure inspected for “honeycomb” prior to backfilling; parge if necessary		
C. Riprap apron / channel		
Apron / channel excavated to design cross-section with proper transition to existing ground		
Filter fabric in place		
Stone sized as per plan and uniformly place at the thickness specified		
9. Vegetative Stabilization		
Approved seed mixture or sod		
Proper surface preparation and required soil amendments		
Excelsior mat or other stabilization, as per plan		

CONSTRUCTION SEQUENCE	SATISFACTORY/ UNSATISFACTORY	COMMENTS
10. Miscellaneous		
Drain for ponds having a permanent pool		
Trash rack / anti-vortex device secured to outlet structure		
Trash protection for low flow pipes, orifices, etc.		
Fencing (when required)		
Access road		
Set aside for clean-out maintenance		
11. Stormwater Wetlands		
Adequate water balance		
Variety of depth zones present		
Approved pondscaping plan in place Reinforcement budget for additional plantings		
Plants and materials ordered 6 months prior to construction		
Construction planned to allow for adequate planting and establishment of plant community (April-June planting window)		
Wetland buffer area preserved to maximum extent possible		

Comments:

Actions to be Taken:

APPENDIX 7

MAINTENANCE AND MANAGEMENT INSPECTION CHECKLIST(S)

Bioretention Operation, Maintenance and Management Inspection Checklist

Project:

Location:

Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Bioretention and contributing areas clean of debris		
No dumping of yard wastes into practice		
Litter (branches, etc.) have been removed		
2. Vegetation (Monthly)		
Plant height not less than design water depth		
Fertilized per specifications		
Plant composition according to approved plans		
No placement of inappropriate plants		
Grass height not greater than 6 inches		
No evidence of erosion		
3. Check Dams/Energy Dissipaters/Sumps (Annual, After Major Storms)		
No evidence of sediment buildup		

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
Sumps should not be more than 50% full of sediment		
No evidence of erosion at downstream toe of drop structure		
4. Dewatering (Monthly)		
Dewaterers between storms		
No evidence of standing water		
5. Sediment Deposition (Annual)		
Swale clean of sediments		
Sediments should not be > 20% of swale design depth		
6. Outlet/Overflow Spillway (Annual, After Major Storms)		
Good condition, no need for repair		
No evidence of erosion		
No evidence of any blockages		
7. Integrity of Filter Bed (Annual)		
Filter bed has not been blocked or filled inappropriately		

Comments:

Actions to be Taken:

Open Channel Operation, Maintenance, and Management Inspection Checklist

Project: _____

Location: _____

Site Status: _____

Date: _____

Time: _____

Inspector: _____

MAINTENANCE ITEM	SATISFACTORY/ UNSATISFACTORY	COMMENTS
1. Debris Cleanout (Monthly)		
Contributing areas clean of debris		
2. Check Dams or Energy Dissipators (Annual, After Major Storms)		
No evidence of flow going around structures		
No evidence of erosion at downstream toe		
Soil permeability		
Groundwater / bedrock		
3. Vegetation (Monthly)		
Mowing done when needed		
Minimum mowing depth not exceeded		
No evidence of erosion		
Fertilized per specification		
4. Dewatering (Monthly)		
Dewaters between storms		

MAINTENANCE ITEM	SATISFACTORY/ UNSATISFACTORY	COMMENTS
5. Sediment deposition (Annual)		
Clean of sediment		
6. Outlet/Overflow Spillway (Annual)		
Good condition, no need for repairs		
No evidence of erosion		

Comments:

Actions to be Taken:

Stormwater Pond/Wetland Operation, Maintenance and Management Inspection Checklist

Project _____
 Location: _____
 Site Status: _____

 Date: _____
 Time: _____

 Inspector: _____

Maintenance Item	Satisfactory/ Unsatisfactory	Comments
1. Embankment and emergency spillway (Annual, After Major Storms)		
1. Vegetation and ground cover adequate		
2. Embankment erosion		
3. Animal burrows		
4. Unauthorized planting		
5. Cracking, bulging, or sliding of dam		
a. Upstream face		
b. Downstream face		
c. At or beyond toe		
downstream		
upstream		
d. Emergency spillway		
6. Pond, toe & chimney drains clear and functioning		
7. Seeps/leaks on downstream face		
8. Slope protection or riprap failure		
9. Vertical/horizontal alignment of top of dam "As-Built"		

Maintenance Item	Satisfactory/ Unsatisfactory	Comments
10. Emergency spillway clear of obstructions and debris		
11. Other (specify)		
2. Riser and principal spillway (Annual)		
Type: Reinforced concrete _____ Corrugated pipe _____ Masonry _____		
1. Low flow orifice obstructed		
2. Low flow trash rack. a. Debris removal necessary		
b. Corrosion control		
3. Weir trash rack maintenance a. Debris removal necessary		
b. corrosion control		
4. Excessive sediment accumulation insider riser		
5. Concrete/masonry condition riser and barrels a. cracks or displacement		
b. Minor spalling (<1")		
c. Major spalling (rebars exposed)		
d. Joint failures		
e. Water tightness		
6. Metal pipe condition		
7. Control valve a. Operational/exercised		
b. Chained and locked		
8. Pond drain valve a. Operational/exercised		
b. Chained and locked		
9. Outfall channels functioning		
10. Other (specify)		

Maintenance Item	Satisfactory/ Unsatisfactory	Comments
3. Permanent Pool (Wet Ponds) (monthly)		
1. Undesirable vegetative growth		
2. Floating or floatable debris removal required		
3. Visible pollution		
4. Shoreline problem		
5. Other (specify)		
4. Sediment Forebays		
1. Sedimentation noted		
2. Sediment cleanout when depth < 50% design depth		
5. Dry Pond Areas		
1. Vegetation adequate		
2. Undesirable vegetative growth		
3. Undesirable woody vegetation		
4. Low flow channels clear of obstructions		
5. Standing water or wet spots		
6. Sediment and / or trash accumulation		
7. Other (specify)		
6. Condition of Outfalls (Annual , After Major Storms)		
1. Riprap failures		
2. Slope erosion		
3. Storm drain pipes		
4. Endwalls / Headwalls		
5. Other (specify)		
7. Other (Monthly)		
1. Encroachment on pond, wetland or easement area		

Maintenance Item	Satisfactory/ Unsatisfactory	Comments
2. Complaints from residents		
3. Aesthetics		
a. Grass growing required		
b. Graffiti removal needed		
c. Other (specify)		
4. Conditions of maintenance access routes.		
5. Signs of hydrocarbon build-up		
6. Any public hazards (specify)		
8. Wetland Vegetation (Annual)		
1. Vegetation healthy and growing Wetland maintaining 50% surface area coverage of wetland plants after the second growing season. (If unsatisfactory, reinforcement plantings needed)		
2. Dominant wetland plants: Survival of desired wetland plant species Distribution according to landscaping plan?		
3. Evidence of invasive species		
4. Maintenance of adequate water depths for desired wetland plant species		
5. Harvesting of emergent plantings needed		
6. Have sediment accumulations reduced pool volume significantly or are plants "choked" with sediment		
7. Eutrophication level of the wetland.		
8. Other (specify)		

Comments:

Actions to be Taken:

APPENDIX 8

STORMWATER DURATION INSPECTIONS

TDK Project Number: _____

Inspections:

Regular

☐

Rainfall

☐

SITE PLAN/SKETCH

Inspector (print name)

Date of Inspection

Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality**Yes No NA**

- ☐ ☐ ☐ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
- ☐ ☐ ☐ Is there residue from oil and floating substances, visible oil film, or globules or grease?
- ☐ ☐ ☐ All disturbance is within the limits of the approved plans.
- ☐ ☐ ☐ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping**1. General Site Conditions****Yes No NA**

- ☐ ☐ ☐ Is construction site litter and debris appropriately managed?
- ☐ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- ☐ ☐ ☐ Is construction impacting the adjacent property?
- ☐ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing**Yes No NA**

- ☐ ☐ ☐ Maximum diameter pipes necessary to span creek without dredging are installed.
- ☐ ☐ ☐ Installed non-woven geotextile fabric beneath approaches.
- ☐ ☐ ☐ Is fill composed of aggregate (no earth or soil)?
- ☐ ☐ ☐ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices**1. Excavation Dewatering****Yes No NA**

- ☐ ☐ ☐ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
- ☐ ☐ ☐ Clean water from upstream pool is being pumped to the downstream pool.
- ☐ ☐ ☐ Sediment laden water from work area is being discharged to a silt-trapping device.
- ☐ ☐ ☐ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader**Yes No NA**

- ☐ ☐ ☐ Installed per plan.
- ☐ ☐ ☐ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- ☐ ☐ ☐ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales**Yes No NA**

- ☐ ☐ ☐ Installed per plan with minimum side slopes 2H:1V or flatter.
- ☐ ☐ ☐ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- ☐ ☐ ☐ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

Page 3 of _____

4. Stone Check Dam

Yes No NA

- ☐ ☐ ☐ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☐ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☐ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

- ☐ ☐ ☐ Installed per plan.
☐ ☐ ☐ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

- ☐ ☐ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

- ☐ ☐ ☐ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☐ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

- ☐ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☐ Installed per standards and specifications?
☐ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

- ☐ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☐ Fabric buried 6 inches minimum.
☐ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ____% of design capacity.

Sediment Control Practices (continued)**3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)****Yes No NA**

- ☐ ☐ ☐ Installed concrete blocks lengthwise so open ends face outward, not upward.
- ☐ ☐ ☐ Placed wire screen between No. 3 crushed stone and concrete blocks.
- ☐ ☐ ☐ Drainage area is 1acre or less.
- ☐ ☐ ☐ Excavated area is 900 cubic feet.
- ☐ ☐ ☐ Excavated side slopes should be 2:1.
- ☐ ☐ ☐ 2" x 4" frame is constructed and structurally sound.
- ☐ ☐ ☐ Posts 3-foot maximum spacing between posts.
- ☐ ☐ ☐ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
- ☐ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
- Sediment accumulation ____% of design capacity.

4. Temporary Sediment Trap**Yes No NA**

- ☐ ☐ ☐ Outlet structure is constructed per the approved plan or drawing.
- ☐ ☐ ☐ Geotextile fabric has been placed beneath rock fill.
- Sediment accumulation is ____% of design capacity.

5. Temporary Sediment Basin**Yes No NA**

- ☐ ☐ ☐ Basin and outlet structure constructed per the approved plan.
- ☐ ☐ ☐ Basin side slopes are stabilized with seed/mulch.
- ☐ ☐ ☐ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
- Sediment accumulation is ____% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
 - a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
 - b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:This image shows a full page of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for handwriting practice or general writing. There are no margins, text, or other markings on the page.

III. Monthly Summary of Site Inspection Activities

Name of Permitted Facility:	Today's Date:	Reporting Month:
Location:	Permit Identification #:	
Name and Telephone Number of Site Inspector:		

[illegible]

Owner/Operator Certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law."

Signature of Permittee or Duly Authorized Representative

Name of Permittee or Duly Authorized Representative

Date _____

Duly authorized representatives must have written authorization, submitted to DEC, to sign any permit documents.

APPENDIX 9

CONTRACTOR CERTIFICATION STATEMENT

GP-0-15-002

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT

I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

(Please print)

Name: _____

Title: _____

Firm name: _____

Address: _____

Phone: _____

Signature: _____ Date: _____

APPENDIX 10

OWNER / OPERATOR CERTIFICATION STATEMENT



Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-20-001)

Project/Site Name: _____

eNOI Submission Number: _____

eNOI Submitted by: ☐ **Owner/Operator** ☐ **SWPPP Preparer** ☐ **Other**

Certification Statement - Owner/Operator

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Owner/Operator First Name

M.I. Last Name

Signature

Date

APPENDIX 11

SWPPP PREPARER CERTIFICATION FORM



SWPPP Preparer Certification Form

*SPDES General Permit for Stormwater
Discharges From Construction Activity
(GP-0-20-001)*

Project Site Information

Project/Site Name

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First name

MI

Last Name

Signature

Date

APPENDIX 12

SPDES GENERAL PERMIT

FOR

*STORMWATER DISCHARGES FROM
CONSTRUCTION ACTIVITY - GP-0-20-001*

APPENDIX 13

MS4 ACCEPTANCE FORM



Department of
Environmental
Conservation

NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information

1. Owner/Operator Name:

2. Contact Person:

3. Street Address:

4. City/State/Zip:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/State/Zip:

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information

8. SWPPP Reviewed by:

9. Title/Position:

10. Date Final SWPPP Reviewed and Accepted:

IV. Regulated MS4 Information

11. Name of MS4:

12. MS4 SPDES Permit Identification Number: NYR20A

13. Contact Person:

14. Street Address:

15. City/State/Zip:

16. Telephone Number:

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Additional Information

APPENDIX 14

NOTICE OF TERMINATION (NOT)

**New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505**

(NOTE: Submit completed form to address above)

NOTICE OF TERMINATION for Storm Water Discharges Authorized
under the SPDES General Permit for Construction Activity

Please indicate your permit identification number: NYR ____ _

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person:

4a. Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. ☐ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. ***Date final stabilization completed** (month/year): _____

9b. ☐ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR ____ _
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. ☐ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? ☐ yes ☐ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? ☐ yes ☐ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the
SPDES General Permit for Construction Activity - continued**

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? ☐ yes ☐ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

- ☐ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.
- ☐ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).
- ☐ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.
- ☐ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____
(acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? ☐ yes
☐ no
(If Yes, complete section VI - "MS4 Acceptance" statement)

V. Additional Information/Explanation:
(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:

Title/Position:

Signature:

Date:

NOTICE OF TERMINATION for Storm Water Discharges Authorized under the
SPDES General Permit for Construction Activity - continued

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

(NYS DEC Notice of Termination - January 2015)

TOWN OF MANLIUS

DISCLOSURE AFFIDAVIT

This affidavit is a part of and must be completed and attached to every application, petition, request submitted for a *site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit.*

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

I. David Neuman, being duly sworn, deposes and says that (s) he is:

Applicant

(applicant, petitioner, corporation officer, property owner, *etc.*)

II. That deponent has read and is familiar with the provisions of the General Municipal Law, Section 809 which states:

- A. Every application, petition or request submitted for a site plan, variance, amendment, change of zoning, approval of a plat, exemption from a plat or official map, license or permit, pursuant to the provisions or any ordinance, local law, rule or regulation constituting the zoning and planning regulations of a municipality shall state the name, residence and the nature and extent of the interest of any state officer or any officer or employee of such municipality is a part, in the person, partnership or association making such application, petition or request (hereinafter called the applicant) to the extent known to such applicant.
- B. For the purpose of this action an officer or employee shall be deemed to have an interest in the applicant when (s)he, his/her spouse, or their brothers, sisters, parents, children, grandchildren, or the spouse of any of them:
 - 1) is the applicant, or
 - 2) is an officer, director, partner or employee of the applicant, or
 - 3) legally or beneficially owns or controls stock of a corporate applicant or is a member of a partnership or association applicant, or
 - 4) is a party to an agreement with such an applicant, express or implied, whereby (s) he may receive any payment or other benefit, whether or not for services rendered, or contingent upon the favorable approval of such application, petition or request.
- C. Ownership of less than five percent (5%) of the stock of a corporation whose stock is listed on the New York or American Stock Exchanges shall not constitute an interest for the purposes of this section.
- D. A person who knowingly and intentionally violates this section shall be guilty of a misdemeanor.

III. That no Town of Manlius officer, employee or a relative of either, as defined in Section 809 General Municipal Law has any interest in this application.

-OR-

If a Town of Manlius officer, employee or relative of either as defined in Section 809 General Municipal law has any interest in this application, the full particulars are provided on an attached sheet.

Date: June 30, 2022.

Date: _____, 20____.

David Neuman
(Print Name)

(Print Name)

[Signature]
(Signature)

(Signature)

Twin Shores Properties, LLC
(Entity Name)

(Entity Name)

Exec. VP of Development
By (Officer) (Title)

By (Officer) (Title)

7120 Thorntree Hill Dr, Fayetteville, NY 13066
(Mailing Address of Applicant)

(Mailing Address of Applicant)

315-729-8459
(Telephone Number)

(Telephone Number)

ACKNOWLEDGEMENTS

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

On this 30 day of JUNE in the year 2022, before me, the undersigned, a notary public in and for said state, personally appeared DAVE NEUMAN,

and _____ personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within Petition and acknowledged to me the he/she/they executed the same in his/her/their capacity, and that by his/her/their signature(s) on the Petition, the individual or the persons upon behalf of which the individual acted executed the instrument.

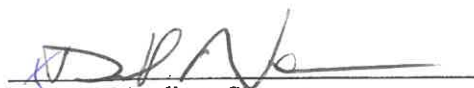
[Signature]
Notary Public

THOMAS J. CERIO
Notary Public, State of New York
Qualified in Onondaga Co. No. 02CE5059023
Commission Expires April 22, 24

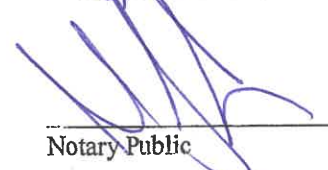
CORPORATE ACKNOWLEDGEMENT

STATE OF NEW YORK)
) SS:
COUNTY OF ONONDAGA)

David Neuman, being duly sworn, deposes and says the
s(he) is the Executive VP of Development of Twin Shores Properties LLC
corporation named in the within Application/Petition, that s(he) has read the foregoing affidavit and
knows the contents thereof; that the same is true of s(he) own knowledge, except as to those matters
therein stated to be alleged upon information and belief, and as to those matters s(he) believes it to be
true.


Applicant Signature

Subscribed to me before this day
Of 6/30, 2022


Notary Public

THOMAS J. CERIO
Notary Public, State of New York
Qualified in Onondaga Co. No. 02CE5059023
Commission Expires April 22, 24

DRAFT

**STORMWATER POLLUTION
PREVENTION PLAN
FOR
CONSTRUCTION ACTIVITIES**



**TWIN LAKES – PROPOSED MULTI-USE
DEVELOPMENT**

Town of Manlius, Onondaga County, New York

Prepared for:

Twin Shores Properties, LLC
1333 13th Street
East Moline, IL 61244

Prepared by:



19 Genesee Street
Camillus, New York 13031
PH: (315) 672-8726
TDK Project No.: 2021054

June 30, 2022

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INTRODUCTION

Twin Shores Properties, LLC (Twin Shores) proposes to construct a mixed-use development upon a 128.9-acre parcel located on the east side of North Burdick Street (CR 94) and immediately south of the Old Erie Canal in the Town of Manlius, Onondaga County, New York. In general, the project includes the construction of approximately 300 multi-family residential units, a 70,500 square-foot theatre and two (2) commercial buildings that will be occupied by restaurant and retail establishments. This project also includes the reclamation of two (2) former quarries last used in the 1970's. Refer to the *Site Location Map* provided in *Appendix 1* and the attached *Site Plan (Sheet SP-1)* for additional information.

This report outlines the methodology for controlling storm water discharges from the site in accordance with the State Pollution Discharge Elimination System's (SPDES) *General Permit for Stormwater Discharges from Construction Activity* (GP-0-20-001) administered by the NYSDEC. It includes storm water design information, erosion and sediment control feature requirements, construction details, and inspection and maintenance procedures to be incorporated into the reclamation of the former quarry site.

According to the State's *Cultural Resource Information System (CRIS)* data base, the subject site is not located within an archeologically and culturally sensitive area. Additionally, the site was included in a previous consultation project (18PR00352) and archaeological survey (08SR58835). However, a request for project review has been submitted to the Office of Parks, Recreation and Historic Preservation's (OPRHP) in order to verify that the proposed project will not impact archeological and/or historic resources. Based upon the site's historical land use for surface mining and previously completed investigations, we anticipate that OPRHP will issue a determination of *No Impact* upon archeological and/or historic resources upon the completion of their review. Please refer to *Appendix 3* for additional information.

PROPOSED SITE DEVELOPMENT INFORMATION

The proposed multi-family residential structures include multiple building sizes with footprints ranging from 8,250 square feet to 19,600 square feet. The proposed buildings will include a total of 300 residential units. The proposed theatre is a single-story structure with an approximate area of 70,500 square feet and two (2) proposed commercial buildings have approximate areas of 7,250 and 2,800 square feet. Related site improvements include the construction of new sanitary and storm sewers, water and natural gas distribution systems, parking and loading areas, drive aisles, and stormwater management facilities. The project will be constructed in substantial conformance with the Town of Manlius zoning ordinances and the New York State building code, as applicable.

The construction of the proposed roadway, buildings, corresponding parking areas and stormwater management practices will impact approximately 36.3 acres (27.9%) of the subject 129.8-acre property. The proposed building, roadways, drive aisles and corresponding parking areas will occupy approximately 22.2 acre (17.1%). Approximately 14.1 acres (10.8%) will be comprised of the south quarry pond, proposed stormwater management practices and landscaped lawn areas. The balance

of the site is comprised of the north quarry pond (~15.0 acres) and the Limestone Creek corridor which will remain largely undisturbed. The proposed site features and lot coverage information is provided on the enclosed *Proposed Drainage Plan (Sheet PD-1)*.

BACKGROUND INFORMATION

Existing Conditions

The site is located adjacent to the east side of North Burdick Street and south of the Old Erie Canal State Park. Additionally, the site is bordered by Limestone Creek to the east; the Northeast Medical Center, auto dealerships and Fayetteville Towne Center located to the west and on the opposite side of North Burdick Street from the site; and vacant land, residential properties and the municipal boundary between the Town of Manlius and Village of Fayetteville to the south. Existing ground cover includes scrub brush, wooded areas, gravel haul roads and residential lawns and asphalt driveways. The subject property is occupied by two (2) residential homes, eight (8) vacant residential structures and an abandoned mining site that also generated sand and gravel spoils and areas of construction and demolition (C&D) fill. Additionally, the north and south quarry ponds occupy approximately 15.1 and 23.4 acres, respectively.

The property generally slopes from west (N. Burdick St.) to east toward Limestone Creek. Surface slopes range from 0.5% to 10% in undisturbed areas of the site; while mined embankments have slopes approaching 70%. Existing drainage patterns are generally characterized by overland flow toward the quarry ponds and Limestone Creek. Limestone Creek discharges to Chittenango Creek prior to its confluence with Oneida Lake. The proposed site improvements are located within a drainage watershed that contains six (6) sub-catchments identified as *CM-1* to *CM-6* in this report.

Sub-catchments *CM-1* and *2* direct surface runoff toward the south and north quarry ponds, respectively. The quarry ponds are isolated water bodies created during past mining operations that do not discharge to downgradient waterways (e.g., Limestone Creek or Old Erie Canal). As such, the water bodies essentially serve as retention ponds that provide surface storage of stormwater runoff with no outflow other than evaporation. Note that the surface areas of the quarry ponds were modeled as drainage sub-catchments in order to evaluate increases in the water surface elevation (WSEL) of the ponds resulting from stormwater discharges received from contributing drainage areas and the rainfall that lands directly on the surface of the ponds during storm events.

Sub-catchments *CM-3* and *4* direct surface runoff toward detention basins that were excavated during mining operations. The basins appear to have had an outlet structure(s) in the past that are currently partially buried and/or impeded by sedimentation. As such, the detention basins were modeled as inter-connected ponds having broad-crested weirs at their respective top of bank elevation. Discharge from the basins is directed toward Limestone Creek.

Sub-catchments *CM-5* and *6* are located adjacent to the west side of Limestone Creek and direct surface runoff directly to the waterway. Please refer to the *Existing Drainage Plan (Sheet ED-1)* provided in *Appendix 3* for additional information.

Proposed Conditions

Proposed drainage patterns will remain generally consistent with existing conditions; with the exception of surface runoff generated under proposed conditions being directed toward a network of open and closed-channel conveyance and stormwater management systems. The stormwater management system within the residential development will be comprised of a network of vegetated swales and *Dry Swales (Method O-I)* that will provide pre- and water quality treatment prior to discharging to the south quarry pond. Parking lots within the residential development will direct surface runoff toward a subsurface detention system located upgradient of proprietary water quality filter units that ultimately discharge to the south quarry pond. All stormwater generated by the proposed commercial properties will also be treated by the utilization of subsurface detention and water quality filters that discharge to the south quarry pond.

The quarry pond will retain the *Water Quality Volume* (WQv) and the *Channel Protection Volume* (CPv) with no off-site discharge. As such, the WQv, CPv and *Runoff Reduction Volume* (RRv) criteria are satisfied. Water quantity treatment will be provided by a discharge control structure that will reduce post-developed peak discharge rates to values less than or equal to existing conditions. Refer to the *Proposed Drainage Plan (Sheet PD-1)* in *Appendix 4* of this report for more information.

COMPARISON OF PRE-DEVELOPMENT AND POST-DEVELOPMENT RUNOFF CONDITIONS

Methodology

The present hydrology was compared to that of the developed conditions. This was accomplished by using a computer stormwater modeling program produced by Haestad Methods known as *Pond Pack*. The peak discharge from both conditions was calculated by using this software in conjunction with site-specific input. The *Pond Pack* program is based on the calculation procedure from the United States Department of Agriculture's (USDA's) *TR-55, Urban Hydrology for Small Watersheds*.

As part of this study, the Onondaga County Soil Survey, prepared by the Natural Resources Conservation Service (NRCS), was also reviewed. It indicates that approximately 8.9%, 8.7%, 3.5%, 8.8%, and 20.3% of the proposed site consists of Cazenovia silt loam (CfB and CgD), Hamlin silt loam (Hb), Palmyra gravelly loam (PgB), Teel silt loam (Te) and a Wayland soils complex (Wn), respectively. The balance of the site is occupied by gravel pits (17.5%) and surface water (32.3%).

Soils are assigned a hydrological soil group (HSG) that ranks soil types from A to D, with A having a lower potential for generating storm water runoff and a higher infiltration rate, and D having a higher runoff potential and lower infiltration rate. The Cazenovia, Hamlin and Palmyra loam series have HSG classifications of C, B and A, respectively; while the Teel and Wayland soil series have HSG classifications of D. Note that gravel pits are not assigned a HSG classification by the NRCS. As such, hydrologic calculations performed for this report assumed a HSG D classification for these areas. For additional information please refer to the soil report located in *Appendix 2*.

Rainfall data was obtained from the Northeast Regional Climate Center (NRCC) and utilized in the hydrologic calculations performed for this report. The site-specific *Extreme Precipitation Table* provided in *Appendix 5* provides precipitation estimates for each design storm.

Water Quality and Runoff Reduction Volumes

The Water Quality (WQv) and Runoff Reduction (RRv) volumes associated with the project were calculated based upon the proposed site improvements (e.g., building and parking areas) located within sub-catchment *CM-1.1*; while water quantity calculations account for existing and proposed conditions within the local drainage watershed. The WQv and RRv for the proposed project are 1.812 and 0.704 acre-feet, respectively. The entire WQv associated with the proposed site improvements and new impervious surfaces will be directed toward the south quarry pond and retained without off-site discharge. The WQv routes to an approximate water surface elevation (WSEL) of 419.05.

Water Quantity Controls

The Channel Protection Volume (CPv) is equivalent to the surface runoff volume generated by the post-developed site during the 1-year, 24-hour storm event. The proposed site's CPv of 3.943 acre-feet will be retained within the south quarry pond and route to an approximate WSEL of 419.11. The south quarry pond will also provide controlled discharge of the runoff volumes generated by the 1, 10 and 100-year storm events and satisfy the NYSDEC's Overbank Flood Control (Qp) and Extreme Flood Control (Qf) requirements. *Tables 1* and *2* provided below summarize drainage calculations for existing and proposed conditions; while *Table 3* provides a direct comparison of existing and proposed peak discharge rates.

Peak Discharge Calculation Summary

Table 1: Existing Conditions

	Existing						Watershed Total
	CM-1	CM-2	CM-3	CM-4	CM-5	CM-6	
Area – Total (acres)	17.17	6.86	3.11	0.66	6.65	35.29	69.74
Pervious	10.26	6.60	2.57	0.66	6.65	33.90	60.63
Impervious	6.91	0.26	0.54	0.00	0.00	1.39	9.10
Curve Number	82	65	77	62	71	73	
Time of Concentration (hrs)	0.125	0.083	0.083	0.548	0.572	1.316	
Runoff (acre-feet)							At Analysis Pt. 1
1-year/24-hour	0.973	0.085	0.123	0.005	0.156	0.976	1.132
10-year/24-hour	2.464	0.408	0.357	0.032	0.559	3.253	3.811
100-year/24-hour	5.407	1.251	0.852	0.106	1.495	8.385	9.879
Peak Discharge (cfs)							
1-year/24-hour	16.36	0.74	2.07	0.01	0.95	3.75	4.23
10-year/24-hour	43.21	6.68	6.45	0.22	4.74	15.86	17.90
100-year/24-hour	93.91	22.57	15.47	0.95	13.81	43.52	49.76

Table 2: Proposed Conditions

	Proposed			Watershed Total
	CM-1.1	CM-2.1	CM-3.1	
Area – Total (acres)	44.29	6.08	22.29	72.66
Pervious	20.84	5.98	22.29	49.11
Impervious	23.45	0.10	0.00	23.55
Curve Number	89	63	69	
Time of Con. [Tc] (hrs)	0.083	0.083	1.179	
Runoff (acre-feet)				Analysis Pt. 1
1-year/24-hour	3.943	0.057	0.422	0.422
10-year/24-hour	8.453	0.316	1.655	1.655
100-year/24-hour	16.677	1.024	4.634	4.634
Peak Discharge (cfs)				
1-year/24-hour	71.34	0.35	1.44	1.44
10-year/24-hour	152.89	5.07	8.21	8.21
100-year/24-hour	294.31	18.37	25.75	25.75

Table 3: Comparison of Existing and Proposed Conditions

Storm Event	Existing (cfs)	Proposed (cfs)
1-year, 24-hour	4.23	1.44
10-year, 24-hour	17.90	8.21
100-year, 24-hour	49.76	25.75

As indicated in *Tables 1* through *3*, proposed peak discharge rates are less than, or equal to, existing conditions and satisfy both NYSDEC and Town requirements. Please refer to the drainage calculations and *PondPack* reports provided in *Appendix 5* for additional information.

Stormwater Management System

As previously mentioned, the proposed residential development areas will direct stormwater runoff toward a network of vegetated swales and *Dry Swales (Method O-1)* that will provide pretreatment and WQv treatment prior to discharging to the south quarry pond. Parking lots within the residential development will direct surface runoff toward a subsurface detention system located upgradient of proprietary water quality filter units that ultimately discharge to the south quarry pond. All stormwater generated by the proposed commercial properties will also be treated by the utilization of subsurface detention and water quality filters that discharge to the south quarry pond.

EROSION & SEDIMENT CONTROL REQUIREMENTS

The erosion and sediment control plan has been developed for the construction activities associated with the proposed project. Both temporary and permanent erosion and sediment control devices will be utilized to reduce the erosion potential from construction and ultimate site use, to decrease water

quality degradation and to protect downstream waterways. The means and methods provided in the erosion and sediment control plan are based upon the *New York State Standards and Specifications for Erosion and Sediment Control (July 2016)* as summarized below and presented on the *Erosion and Sediment Control Plan and Construction Details*.

Temporary Erosion and Sediment Control Facilities

The locations and construction specifications for the following temporary erosion and sediment control devices are shown on the erosion and sediment control plan and details:

- *Silt Fence:* Silt fencing will be placed between graded and undisturbed areas to prevent sediment from entering the undisturbed areas. Silt fence will also be placed around stockpile locations and equipment/material staging areas.
- *Stabilized Construction Entrance:* Stabilized construction entrance will prevent sediment from leaving the limits of disturbance.
- *Check Dams:* Temporary stone check dams will be constructed within ditches and swales to decrease flow velocities and allow the settlement of sediment from runoff. The check dams shall be removed upon final stabilization of the channel with vegetation.

Permanent Erosion and Sediment Control Facilities

- *Outlet Protection:* End treatments will be provided at the culvert outlets as shown on the site plan to minimize scour and erosion.
- *Surface Stabilization:* Stabilization will be accomplished with vegetation and mulch, as indicated in the landscaping specifications.

Construction Schedule and Sequence

Construction of the project is expected to begin in the spring of 2023. The general site notes and anticipated construction sequence for the site improvements consist of the following:

General Notes:

1. One (1) week prior to beginning earthwork operations, a pre-construction meeting will be held to discuss the erosion and sediment control plan.
2. Erosion and sediment control measures shall be provided prior to beginning any land disturbance activities. The devices providing protection to a given area shall not be removed until the disturbed lands in that area are stabilized.
3. No disturbed area shall remain exposed for more than 7 calendar days, except for portions of the site in which work will be continuous beyond 7 days (e.g., the building footprint). Temporary vegetation shall be provided in all areas where construction activities have ceased for greater than 7 calendar days.

4. A trained contractor shall be on-site during all land disturbance construction activities in order to inspect the erosion and sediment control measures specified in this document and the construction drawings. Active construction zones shall be inspected daily to ensure the proper installation and maintenance of all erosion and sediment control practices. Corrective measures to address any deficiencies identified by the trained contractor shall be implemented within 24 hours.

Construction Sequence:

Site Preparation

1. Install temporary erosion and sediment control measures as indicated on the ESC plan.

Site Grading and Building Construction

1. Create equipment staging and material stockpile locations, as indicated on the ESC plan.
2. Strip and stockpile gravel surface and subgrade from proposed building footprint as needed.
 - Stockpile the removed material at the designated spoils area identified on the ESC plan.
 - Cover stockpile and provide silt fencing around the perimeter of staged spoils and/or temporarily staged piles of fill.
3. Install additional silt fence, as needed, down-gradient from localized areas of construction activities.
4. Silt fence shall be installed parallel to elevation contours.
5. Install utilities as indicated on construction drawings. Please note that material excavated from utility trenches shall be placed on the upstream side of the trench and backfilled immediately upon completion of work. Additionally, contractor shall seed, mulch and stabilize the disturbed area as soon as work is complete.
6. Construct the proposed building(s) as specified in contract documents prepared by the project architect.
7. Complete earthwork and grading operations, including placement of fill to limits indicated. Note that final grading of the stormwater management areas shall not be initiated until all upstream disturbed areas are stabilized.
8. Upon the stabilization of all upstream areas, perform final pond and bioretention filter grading and planting per specifications.
9. Continually maintain all erosion and sediment control devices during grading operations.

Restoration

1. Seed, mulch and stabilize all disturbed ground cover (i.e., lawn and detention basin areas).

2. Install landscaping features (i.e., plants, mulch, etc.).
3. Remove temporary erosion control devices once vegetation has been established.

Inspection Procedures and Maintenance

During construction, the Owner will be responsible for inspecting and maintaining the permanent and temporary erosion control facilities. Also, areas that have been seeded will be inspected regularly after seed germination to ensure complete coverage of exposed areas.

Inspections of all devices should be completed twice per week and after each rainfall event. Repairs should be completed immediately upon discovery.

The inspections shall be performed by a “qualified inspector”, as defined by the DEC’s GP-0-20-001 General Permit Program. The following items shall be documented and the contractor notified of deficiencies requiring corrective action:

- ✦ *Stabilization Measures:* Disturbed areas and areas used for storage of materials that are exposed to precipitation will be inspected for evidence of, or the potential for, pollutants entering the drainage system. After the site is stabilized, inspections will be conducted at least once every month throughout the life of the project.
- ✦ *Structural Controls:* Silt fences, straw bale barriers, and all other erosion and sediment control measures identified in the plan will be inspected regularly for proper positioning, anchoring, and effectiveness in trapping sediments. Sediment will be removed from the upstream or up-slope side of the filter fabric and check dams.
- ✦ *Discharge Points:* Discharge points, as indicated in the facility’s Multi-Sector industrial SPDES permit will be inspected and monitored.
- ✦ *Construction Entrances:* Locations where vehicles enter or exit the site will be inspected for evidence of off-site sediment tracking.
- ✦ Accumulated sediments in the temporary sediment basins should be removed when 50% of the storage capacity is filled with sediment, as applicable.
- ✦ Sediment around the silt fencing should be removed as needed to maintain the functionality of the devices.
- ✦ All seeded areas shall be maintained as follows:
 - Identify seeded areas with stakes, string and brightly colored flagging. Protect seeded areas until vegetation has been established.
 - Immediately re-seed areas which do not establish vegetation.
 - Submit maintenance instructions for fertilizing and lawn care.

- To preserve the functionality of the stormwater management system, a representative of the Owner shall complete the following:
 - Inspect the drainage swales and check dams for subsidence, erosion or tree growth.
 - Coordinate the removal of any accumulated sediment within swales.
 - The inspections will be performed on a monthly basis, or more frequently as weather conditions warrant.
- The Owner will also be responsible for maintaining the lawn areas, in particular the landscaped areas of the swales.

Construction Site Wastes

The following best management practices shall be implemented to ensure proper storage and handling of construction site wastes:

- Non-hazardous construction and demolition material that is suitable for use as fill material shall be transported and placed within the designated stockpile and spoils area identified on the erosion and sediment control plan.
- Designate a waste collection area adjacent to the stockpile and spoils area or within the construction staging area for the management of construction wastes not suitable for use as clean fill material or as deemed appropriate for recycling.
- Ensure that containers have lids so they can be covered before periods of rain, and keep containers in a covered area whenever possible.
- Schedule waste collection to prevent the containers from overfilling.
- Clean up spills immediately. For hazardous materials, follow cleanup instructions on package. Use an absorbent material such as sawdust or kitty litter to contain the spill.
 - During the demolition phase of construction, provide extra containers and schedule more frequent pickups.
 - Collect, remove, and dispose of all construction site wastes at authorized disposal areas. A local environmental agency can be contacted to identify these disposal sites.

The following steps should be taken to ensure the proper disposal of hazardous materials:

- Local waste management authorities should be consulted about the requirements for disposing of hazardous materials.
- A hazardous waste container should be emptied and cleaned before it is disposed of to prevent leaks.

- The original product label should never be removed from the container as it contains important safety information. Follow the manufacturer's recommended method of disposal, which should be printed on the label.
- If excess products need to be disposed of, they should never be mixed during disposal unless specifically recommended by the manufacturer.

The following practices should be used to reduce risks associated with pesticides or to reduce the amount of pesticides that come in contact with storm water:

- Follow all federal, state, and local regulations that apply to the use, handling, or disposal of pesticides.
- Do not handle the materials any more than necessary.
- Store pesticides in a dry, covered area.
- Construct curbs or dikes to contain pesticides in case of spillage.
- Follow the recommended application rates and methods.
- Have equipment and absorbent materials available in areas where pesticides are stored and used in order to contain and clean up any spills that occur.

The following management practices should be followed to reduce the contamination risk associated with petroleum products:

- Store petroleum products and fuel for vehicles in covered areas with dikes in place to contain any spills.
- Immediately contain and clean up any spills with absorbent materials.
- Have equipment available in fuel storage areas and in vehicles to contain and clean up any spills that occur.

To reduce risks of nutrient pollution the following management practices shall apply:

- Have equipment available in fuel storage areas and in vehicles to contain and clean up any spills that occur.
- Apply fertilizers at the minimum rate and to the minimum area needed.
- Work the fertilizer deeply into the soil to reduce exposure of nutrients to storm water runoff.
- Apply fertilizer at lower application rates with a higher application frequency.
- Limit hydro-seeding, which is the simultaneous application of lime and fertilizers.
- Ensure that erosion and sediment controls are in place to prevent fertilizers and sediments from being transported off-site.

- ✦ Use detergents only as recommended, and limit their use onsite. Wash water containing detergents should not be dumped into the storm drain system—it should be directed to a sanitary sewer or be otherwise contained so that it can be treated at a wastewater treatment plant.

RECORD RETENTION

A copy of the SWPPP, signed NOI, and NYSDEC Acknowledgement letter shall be retained at the job site throughout the duration of the project. The Owner shall retain copies of the SWPPP, all reports and records of data used to complete the *Notice of Intent*, for five (5) years from the date the site is finally stabilized.

NOTICE OF TERMINATION

When the project is completed and the site has been stabilized, a *Notice of Termination (NOT)* shall be submitted to the NYS Department of Environmental Conservation, certifying completion and final stabilization of the project, and compliance with the approved Storm Water Pollution Plan (SWPPP).

The following general requirements must be completed prior to the submission of a *NOT*:

- ✦ The execution of a maintenance agreement with the Town of Manlius (Town) or a recorded deed covenant that ensures long-term maintenance of the post-construction stormwater practices.
- ✦ Certification from a qualified inspector that the ground surfaces have achieved final stabilization and verification that post-construction stormwater management practices have been constructed in accordance with the design specifications.

The NOT form shall be submitted to the following address:

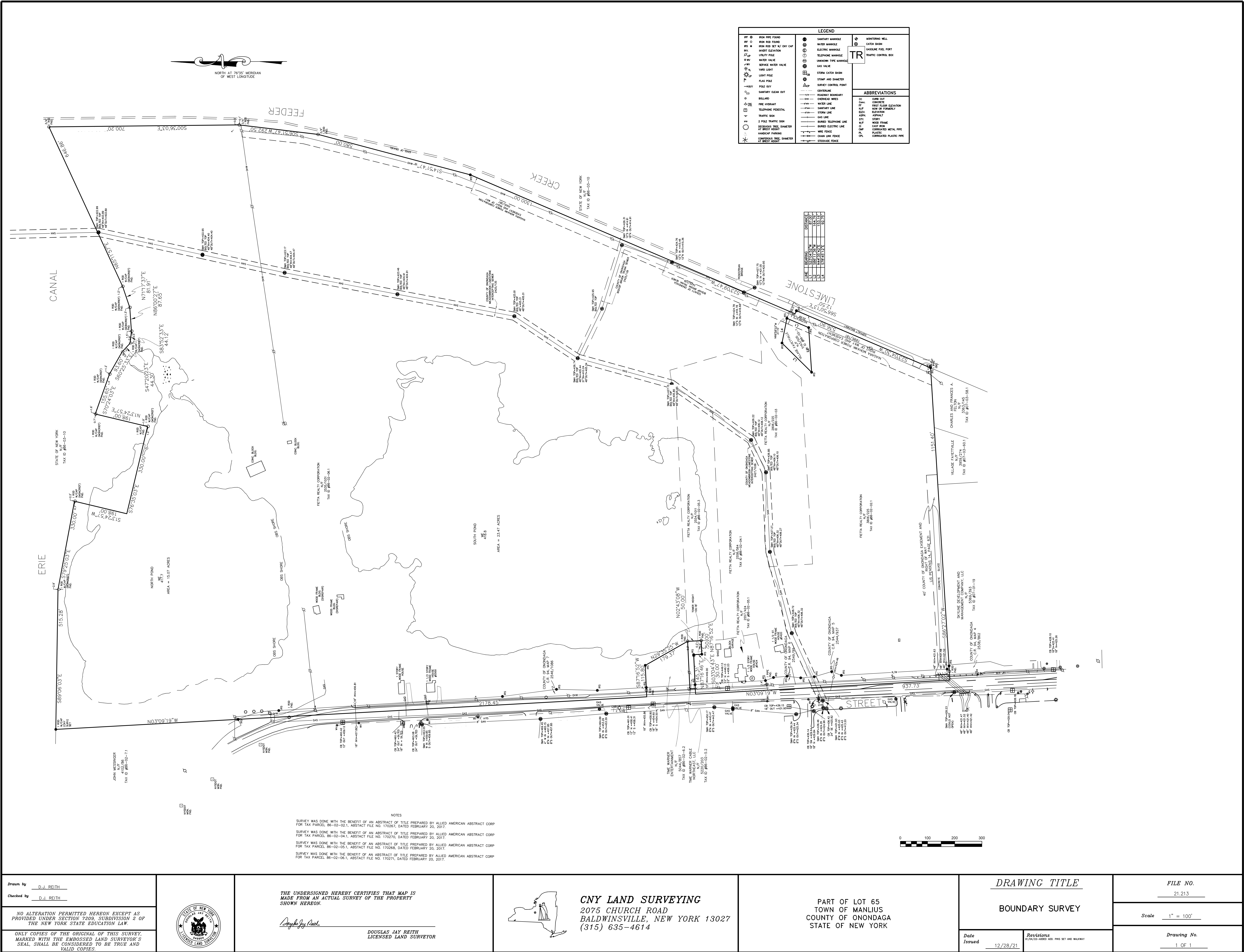
NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

LICENSED PROFESSIONAL’S CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Date: _____
Name: Joseph Durand, P.E.
Title: President, Principal
Firm: TDK Engineering Associates, P.C.
Address: 19 Genesee Street, Camillus, New York 13031
Phone: (315) 672-8726

Signature: _____





June 30, 2022

Dan Kwasnowski, AICP, Planning Director
ONONDAGA COUNTY PLANNING BOARD
1100 Civic Center
421 Montgomery Street
Syracuse, NY 13202

RE: Twin Shores, LLC – Twin Lakes Project
5440 North Burdick Street
Town of Manlius, Onondaga County
OCPB RESOLUTION RESPONSE (CASE # Z-22-6)
TDK Project No: 20021054

Dear Mr. Kwasnowski:

The above-referenced project was presented to the Onondaga County Planning Board for review in connection with a zone change request through the Town of Manlius in January 2022. As part of the County Planning's review at that time, a historical project summary was also provided for background on the subject property, as the property has previously been under potential development considerations through involved agencies in 2007-2008 and 2018.

Specific to the proposed project and in response to your January 19, 2022 resolution letter regarding the zone change application, we offer the following responses to the Onondaga County Planning Board's recommendations to the Town Board of Manlius:

- *Wastewater Services – The Town should have assurances that the proposed zoning and any future development is sensitive to the location of the existing regional wastewater easements and infrastructure on site. Coordinated planning with the Onondaga County Department of Water Environment Protection is strongly advised to ensure the Department is involved at an early stage in the process.*

TDK Response:

TDK has been in contact with Onondaga County Department of Water Environment Protection (WEP) throughout the project planning process regarding available capacity and connection details for tying into the existing Bishop Brook and Meadowbrook Limestone trunk sewer(s) that traverse the site. An updated capacity assurance request has been submitted.

- *Potential Floodplain/Floodway Impacts – The site is significantly encumbered by floodplain and floodway areas associated with on- and off-site water courses. The Town should consider the implications of rezoning these sensitive environmental areas to allow for more intense development, particularly within the more restrictive floodway. The applicant should provide a plan for mitigation given any future development in the floodplain and/or floodway.*

TDK Response:

A floodplain analysis has been conducted relative to proposed development of the approximately 36 acres (28%) of the 130-acre site. Provisions for mitigation (offset) of impacts to the floodplain will be incorporated into the earthwork plans such that there will be no increase in the flood elevations resulting from the proposed project.

A flood plain development permit application with corresponding flood plain modeling support information will be provided to the Town for project coordination and approval.

- *Potential Wetland Impacts – The current wetland delineation should be confirmed by the DEC and/or ACOE. Optimally, a DEC-approved mitigation plan will be developed for any wetland disturbance and/or crossings.*

TDK Response:

A wetland study was completed by Shumaker Consulting Engineering on June 8, 2022. The findings from the report will be submitted with the New York State Department of Environmental Conservation (DEC) and Army Corps of Engineers (ACE) along with a request for their representatives to visit the site.

In 2018 a Jurisdictional Determination (JD) was issued by ACE which indicated that no permits were required for work within the two large quarry ponds or four (4) smaller isolated wetlands. In November 2021, TDK confirmed ACE's position in this regard.

It is understood that applications for permits for work within any other designated federal wetland will be made to ACE, in addition to coordination of an Article 24 permit with the DEC for work within the 100-foot adjacent area of the North Pond, as applicable.

- *Potential Stormwater Impacts – The applicant should provide a more detailed analysis of potential regional stormwater impacts and workable on-site accommodations. This is necessary given on- and off-site water courses, the proximity and encroachment into floodplain and floodway areas, and potential state and federal wetlands.*

TDK Response:

A draft Stormwater Pollution Prevention Plan (SWPPP) has been prepared consistent with the State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activities (DEC General Permit #GP-0-20-001). A copy has been submitted to the Town of Manlius (Town) as part of the site plan approval package.

- ✦ *Potential Traffic Impacts – The applicant should provide additional detail and coordinated planning to review potential traffic impacts of the project. Additional information should describe new ingress and egress and new traffic signals or intersection locations. The applicant is advised to coordinate with the Onondaga County Department of Transportation (OCDOT) early in the planning process. Traffic data for full build out and a Stormwater Pollution Prevention Plan (SWPPP) will be required as part of the Department's review of any future development of the site.*

TDK Response:

Twin Shores through TDK and GTS Consulting have been in contact with the County DOT. It is understood that as part of the project review and permitting process that a stormwater management report will be prepared and submitted to all involved agencies.

Furthermore, a traffic study was completed on December 4, 2021 by GTS Consulting and a copy of the report was provided to the OCDOT. OCDOT issued comments on January 31, 2022. In response to those comments, and consistent with proposed site development opportunities currently under consideration by Twin Shores, we offer the following responses:

The Onondaga County Department of Transportation (OCDOT) has reviewed the Traffic Impact assessment dated 12/04/2021, and prepared by GTS Consulting. Our comments are as follows:

1. *OCDOT: Has the owner of the property across from the proposed signalized Driveway been consulted? Onondaga County will not approve a signal at this location without a legal agreement between both property owners.*

TDK: Twin Shores has not been in contact with the owners of the property across from the proposed signalized driveway that was reportedly approved in 2018 by the County. Based on comments from OCDOT, it is our intention to relocate the southern entrance into the Twin Shore property to what we understand was the previously approved signalized intersection into the Towne Center at Fayetteville facility.

It is also our understanding that there is a formal agreement in place for the traffic signal to have been installed previously by the owner of the Towne Center, but to date, the intersection has not been improved. On behalf of our client, we are requesting a copy of the executed

agreement to fully understand any permit/approval requirements, etc., so we can plan, accordingly.

2. *Through 6.*

TDK - Response to OCDOT's Comments 2 through 6; GTS is currently revising their traffic report to reflect the shift of the signalized intersection to where it was previously approved by the County near the Carrabba's Restaurant.

- ✦ *Zoning – The Town should facilitate subdivision of lands to coincide with any future zoning changes, in order to avoid difficulties with split-zoned parcels. The Town may also wish to consider potential multi-family residential uses for the front of the site rather than interior area, and the applicability of commercial zoning to accomplish any residential development goals.*

TDK Response:

A zone change was approved by the Town Board on February 23, 2022. Updated proposed subdivision limits are under consideration at this time that will reflect a 300-unit residential tract and a commercial track to the south, at a minimum.

- ✦ *Coordination with State Parks – Since the proposed project site is located within 500' of the Old Erie Canal State Park and Green Lakes State Park, the Town should coordinate with the Office of Parks, Recreation, and Historic Preservation to ensure any future projects in the proposed zoning areas will not negatively impact nearby parklands.*

TDK Response:

Recommendation noted and we offer the following as an update. Representatives of Twin Shores have been in discussions with State Park officials since the project's inception. These discussions included a site meeting to evaluate the subject property for the potential inclusion of a portion of the subject property along Limestone Creek within an expanded State or local park system.

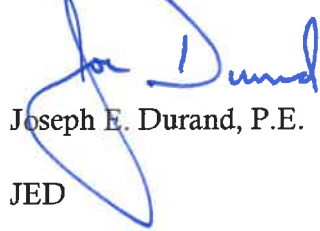
Twin Shores has also had on-going discussions with Town and more recently Village of Fayetteville representatives to evaluate potential connectivity objectives between the State's Erie Canal Park, the Town and Village's business district along North Burdick Street and Genesee Street, respectively through the creation of a multi-functional park system along the Limestone Creek corridor. We anticipate that there will be further dialogue between the involved parties as the project review process continues to unfold.

Mr. Kwasnowski
OCPB Comments Response Letter
TDK Project No. 2021054
June 30, 2022

We offer the above information for clarification purposes and respectfully request that a copy of this response be included with the Town's submission of this project to County Planning for their consideration.

Sincerely,

TDK ENGINEERING ASSOCIATES, P.C.

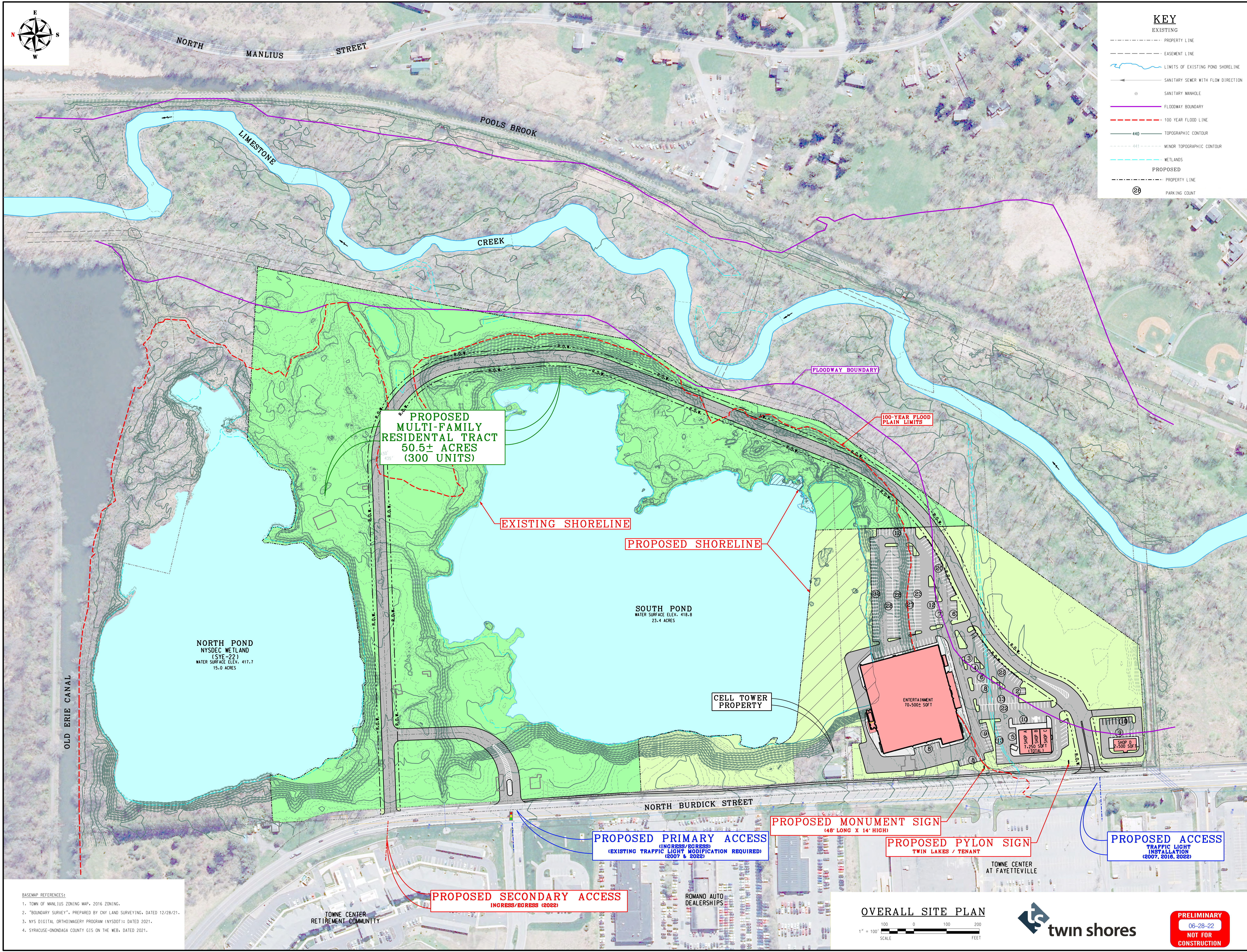


Joseph E. Durand, P.E.

JED

Enclosure(s)

Cc: Town Supervisor John Deer
Mayor Mark Olson, Village of Fayetteville
Dave Neuman, Twin Shores, LLC
John Charters, Twin Shores, LLC
Tom Cerio, Esq.
Dave Herkala, Esq.



KEY

EXISTING

- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF EXISTING POND SHORELINE
- SANITARY SEWER WITH FLOW DIRECTION
- SANITARY MANHOLE
- FLOODWAY BOUNDARY
- 100 YEAR FLOOD LINE
- TOPOGRAPHIC CONTOUR
- MINOR TOPOGRAPHIC CONTOUR
- WETLANDS

PROPOSED

- PROPERTY LINE
- PARKING COUNT

- BASEMAP REFERENCES:
1. TOWN OF MANLIUS ZONING MAP, 2016 ZONING.
 2. "BOUNDARY SURVEY", PREPARED BY CNY LAND SURVEYING, DATED 12/28/21.
 3. NYS DIGITAL ORTHOMAGERY PROGRAM (NYSOTI): DATED 2021.
 4. SYRACUSE-ONONDAGA COUNTY GIS ON THE WEB, DATED 2021.

OVERALL SITE PLAN

1" = 100'

SCALE

100 0 100 200

FEET



PRELIMINARY

06-28-22

NOT FOR CONSTRUCTION

TDK Engineering Associates, PC

19 Genesee Street, Camillus, NY 13031 Tel: (315) 692-5226 Fax: (315) 692-5732
www.tdkengineering.com

Civil • Marine • Site Development • Geotechnical • Structural • Environmental • Industrial • Lighting

PROVISIONS:

DATE:

PROJECT: TWIN LAKES MULTI-USE DEVELOPMENT

CLIENT: TWIN SHORES PROPERTIES, LLC

LOCATION: N. BURDICK STREET, TOWN OF MANLIUS, ONONDAGA COUNTY, NEW YORK

DRAWING TITLE: OVERALL SITE PLAN

PROJECT No.: 2021054

SCALE: 1" = 100'

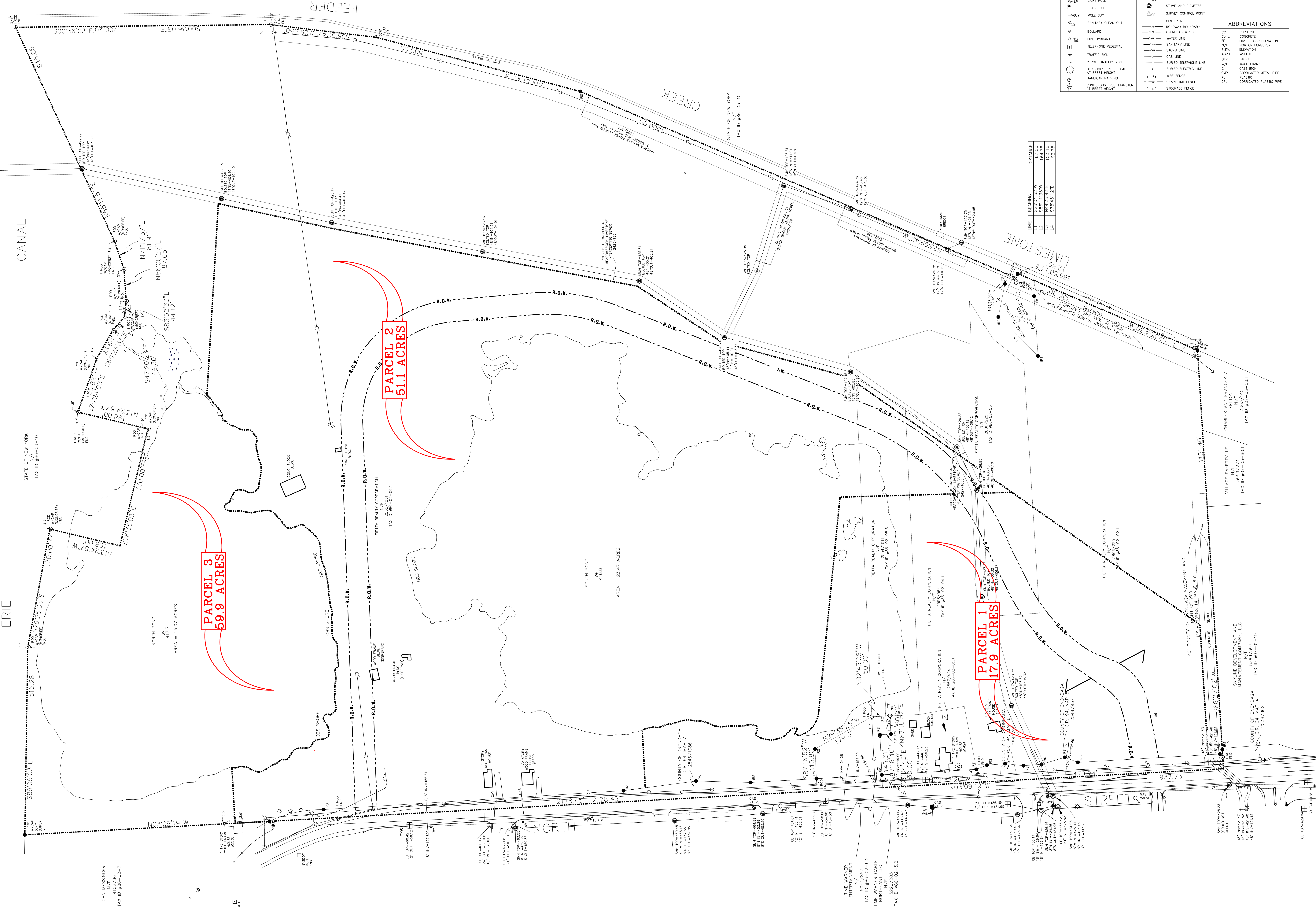
DATE:

ENGD BY: SKO

DRAWN BY: NAR/DKC

CHECKED BY: JED

SHEET NO. OP-1



LEGEND	
RF @	IRON PIPE FOUND
RF @	IRON ROD FOUND
RF @	IRON ROD SET W/ CNY CAP
RF @	INVERT ELEVATION
RF @	UTILITY POLE
RF @	WATER VALVE
RF @	SERVICE WATER VALVE
RF @	YARD LIGHT
RF @	FLAD POLE
RF @	POLE DUTY
RF @	SANITARY CLEAN OUT
RF @	ROLLERS
RF @	FIRE HYDRANT
RF @	TELEPHONE PEDESTAL
RF @	TRAFFIC SIGN
RF @	2 POLE TRAFFIC SIGN
RF @	DECEADUOUS TREE, DIAMETER AT BREAST HEIGHT
RF @	HANDICAP PARKING
RF @	CONIFEROUS TREE, DIAMETER AT BREAST HEIGHT
RF @	SANITARY MANHOLE
RF @	WATER MANHOLE
RF @	ELECTRIC MANHOLE
RF @	TELEPHONE MANHOLE
RF @	UNKNOWN TYPE MANHOLE
RF @	GAS VALVE
RF @	STORM CATCH BASIN
RF @	STUMP AND DIAMETER
RF @	SURVEY CONTROL POINT
RF @	CENTERLINE
RF @	ROADWAY BOUNDARY
RF @	DORMAD WIRE
RF @	WATER LINE
RF @	SANITARY LINE
RF @	STORM LINE
RF @	OS LINE
RF @	BURIED TELEPHONE LINE
RF @	WIRE FENCE
RF @	CHAIN LINK FENCE
RF @	STOCKADE FENCE
RF @	MONITORING WELL
RF @	CATCH BASIN
RF @	GASOLINE FUEL PORT
RF @	TRAFFIC CONTROL BOX

ABBREVIATIONS	
CC	CORR BUT
CONC	CONCRETE
N/F	FIRST FLOOR ELEVATION
N/F	NEW OR FORMERLY
ELEV	ELEVATION
ASPH	ASPHALT
STY	STORY
W/F	WOOD FRAME
CI	CAST IRON
MD	METAL PIPE
PL	PLASTIC
CP	CORRUGATED PLASTIC PIPE

PROJECT: TWIN LAKES MULTI-USE DEVELOPMENT

DRAWING TITLE: PRELIMINARY SUBDIVISION PLAN

PROJECT NO.: 2021054

SCALE: 1" = 100'

DATE: 4/02/86

ENDD BY: SKO

DRAWN BY: NAR/DKC

CHECKED BY: JED

CLIENT: TWIN SHORES PROPERTIES, LLC

LOCATION: N. BURDICK STREET, TOWN OF MANLIUS, ONONDAGA COUNTY, NEW YORK

PROJECT: TWIN LAKES MULTI-USE DEVELOPMENT

DRAWING TITLE: PRELIMINARY SUBDIVISION PLAN

PROJECT NO.: 2021054

SCALE: 1" = 100'

DATE: 4/02/86

ENDD BY: SKO

DRAWN BY: NAR/DKC

CHECKED BY: JED

DATE: 4/02/86

PROVISIONS: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 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