

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME: SCANNELL-NEWBURGH COMMERCE CENTER

PROJECT NO.: 2021-21

PROJECT LOCATION: SECTION 95, BLOCK 1, LOT 58

REVIEW DATE: 14 JANUARY 2022
MEETING DATE: 20 JANUARY 2022
PROJECT REPRESENTATIVE: LANGAN ENGINEERING

- This office previously circulated Notice of Intent for Lead Agency for the SEQRA review of the project. This notice was sent on 26 October 2021 and has timed out for any additional responses. Coordination with the NYSDEC and US Fish and Wildlife Service regarding potential impacts to protected Bat Species and the Upland Sandpiper are required.
- 2. A City of Newburgh Flow Acceptance letter is required for the project.
- 3. Status of review from the Jurisdictional Emergency Services should be received. It is noted the facility only has one point of access from NYS Route 17K.
- 4. The applicants are requested to provide preliminary analysis to determine that adequate flow and pressure exists such that a fire suppression water tank is not needed on the site.
- 5. All correspondence with NYSDOT should be submitted to the Planning Board as well. NYSDOT input on the access drive and utilities within the DOT right-of-way should be provided. A copy of the 17 December 2021 DOT application has been provided.
- 6. Appendix 17, 18 & 19 appear to be missing from the document. No information beyond the Traffic Study is provided.
- 7. Future submissions should provide tabs in the voluminous report provided to assist in review.
- 8. Noise Study should document the benefits of the sound attenuating wall proposed along the front of the parcel between the residential parcels and the subject property. In addition, a sound attenuating wall is provided along the easterly portion of the access drive.
- 9. A Stormwater Facilities Maintenance Agreement will be required to be executed and filed with the Town and with County Property records.
- 10. Two bio-retention areas are proposed for water quality control. Bio-retention area #1 is identified as having a liner while Bio-Retention area #2 is identified as not being lined. Bio-retention area #1 addresses the hot spot areas of the site while bio-retention area #2 takes on a roof and passenger vehicle parking. Two separate details should be provided on the plans.

- 11. It is noted in the Stormwater Model that bio-retention area #1 identifies a .25 inches per hour exfiltration in the calculation. This is a lined pond which also then takes credit for the six inch vertical underdrain.
- 12. The Narrative portion of the SWPPP should identify the use of the proprietary pre-treatment units prior to discharge to the bio-retention basins.
- 13. The location of the natural discharge for headwall #17 should be identified on the plans. The drainage course between this point discharge and the natural stream should be provided. The velocity of this discharge point should be evaluated as the pipe slopes are approximately 5% to 5.5% grades along the 17K corridor.
- 14. NYSDOT comments regarding placement of the storm drainage facilities within the driving lane of NYS Route 17K should be received.
- 15. The location of the 60 inch diameter pipe identified in the SWPPP narrative should be identified on the plans.
- 16. It is requested the Erosion & Sediment Control Plan address interim drainage condition along the easterly and westerly property lines existing and proposed grades.
- 17. It is unclear if temporary sediment traps are proposed on the plan. No detail or discussion of the same are provided. Volume of the temporary sediment traps should be calculated and identified.
- 18. It is requested the applicant evaluate the amount of flow directed towards Catch Basin #24 at the entrance drive. It appears that water traveling from west to east as well as the entire access road discharges to this single catch basin.
- 19. Limits of disturbance along residential property should be demarcated in the field with orange construction fence. Proposed grading in several locations butts the residential properties.
- 20. A detail for connection to existing manholes should be provided. Paved inverts for the connection within the manhole should be identified and core drilling of any town owned manhole is required.

Respectfully submitted,

MHE Engineering, D.P.C.

Patril & Offenes

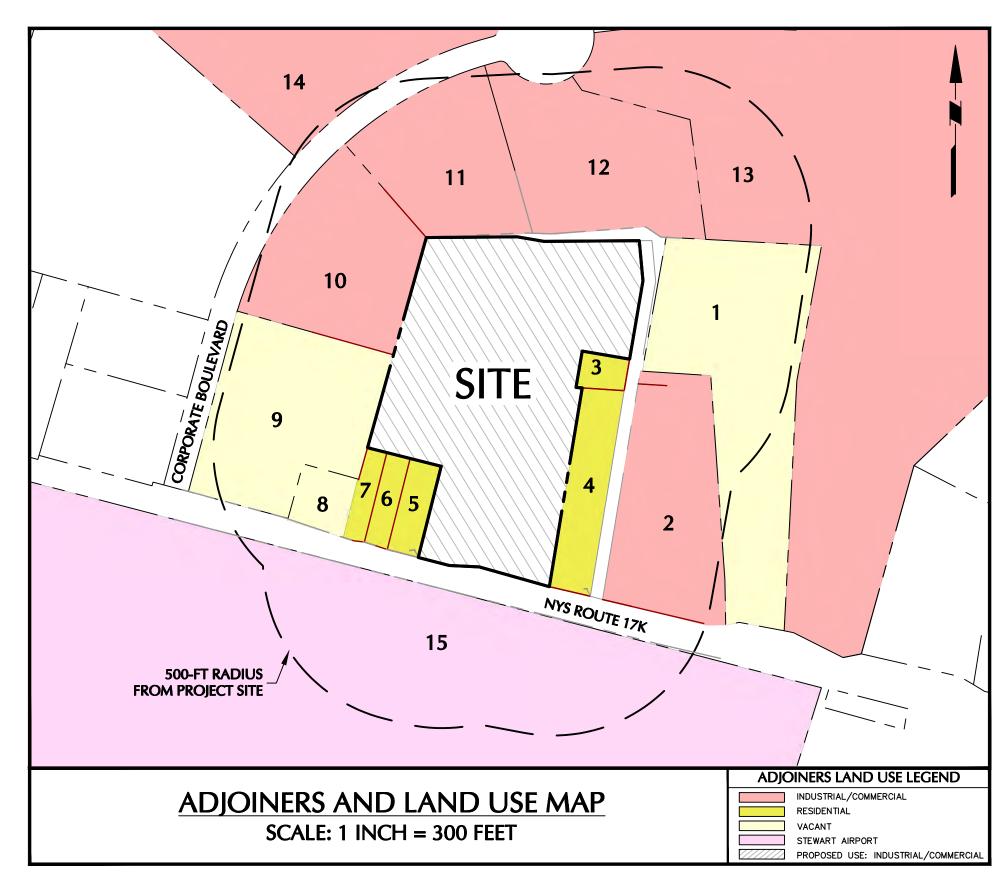
Patrick J. Hines

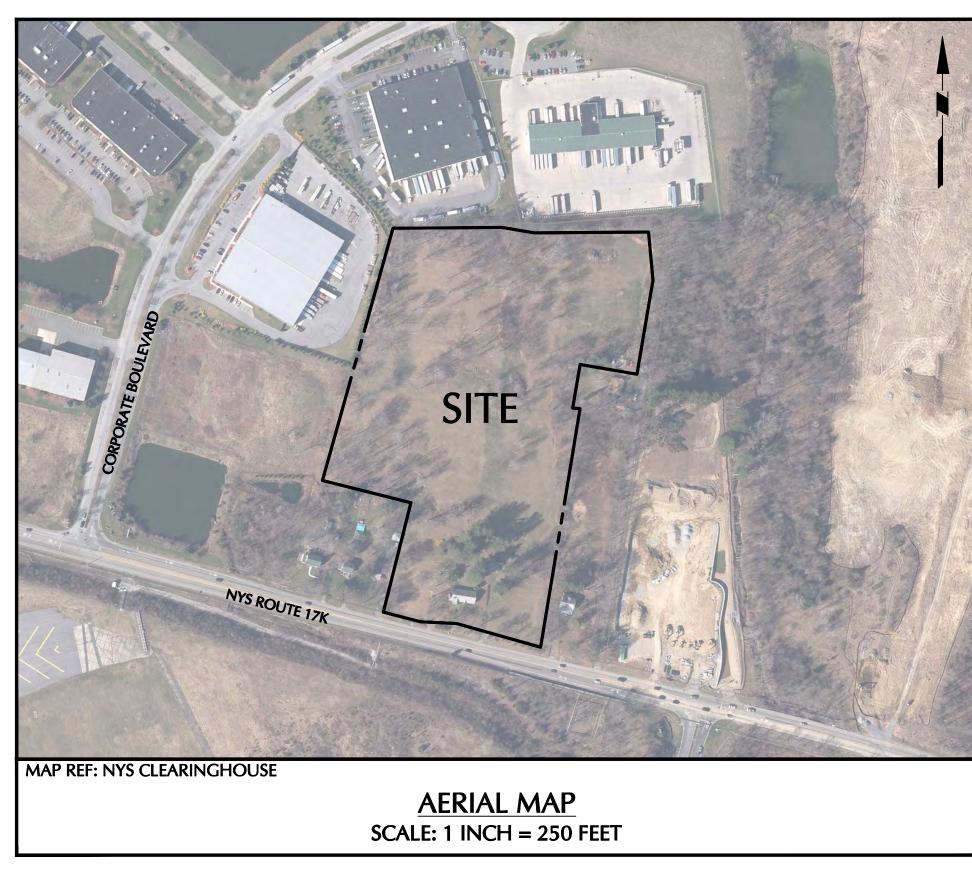
Principal

PJH/kbw

SITE PLAN APPROVAL DOCUMENTS FOR NEWBURGH COMMERCE CENTER

TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK SECTION 95, BLOCK 1, LOT 58 PLANNING BOARD PROJECT No: 2021-21





R1 ZONING	84
DISTRICT	AIRPORT_OVERLAY_
B ZONING DISTRICT	SITE
	STIL IB ZONING DISTRICT
I ZONING DISTRICT	
MAP REF: ORANGE COUNTY PLA	NNING DEPARTMENT - TOWN OF NEWBURGH ZONING MAP ZONING MAP SCALE: 1 INCH = 500 FEET

PROJECT CONTACTS

SCANNELL PROPERTIES, LLC

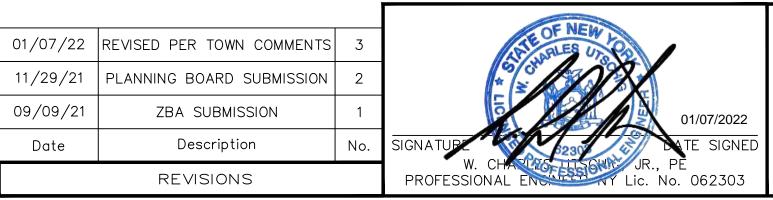
INDIANAPOLIS, IN 46240

RED OAK SOS, LLC 1400 E 66TH ÁVENUE **DENVER, CO 80229**

8801 RIVER CROSSING BOULEVARD, SUITE 300

		ADJACENT PROPERTY OWNE	RS	
1. 95-1-54.2 PDH Realty, LLC P.O. Box 859 Goshen, NY 10924	4. 95-1-57 Cosimo J. Colandrea P.O. Box 3257 Newburgh, NY 12550	130 W Main Street 16	5-1-75 13. DP Associates, LLC 60 Middlesex Turnpike edford, MA 01730	95-1-1.1 Northeast Business Center 3 Manhattanville Road Purchase, NY 10577
2. 95-1-53 PDH Realty, LLC P.O. Box 859 Goshen, NY 10924	5. 95-1-59 TJP Realty, LLC 70 Taylors Way Newburgh, NY 12550	Pitsinos Property Inc. But 113 Dogwood Lane 3 I	5-1-1.32 14. uisness Center Northeast Manhattanville Road urchase, NY 10577	95-1-79.2 Matrix Newburgh I, LLC CN 4000 Forsgate Drive Cranbury, NJ 08512
3. 95-1-56 Van Schrier 120 Route 17K Newburgh, NY 12550	6. 95-1-60 Michael W. Kane 128 Route 17K Newburgh, NY 12550	Palm Hospitality, LLC A 48 Sherwood Heights P. Wappingers Falls, NY 12590 65	5-1-69.12 15. Duie Pyle .O Box 564 50 Westtown Road /est Chester, PA 19381	89-1-79 NYS Department of Transportation Albany, NY 12201

	DRAWING LIST				
DRAWING NO.	SHEET NO.	DRAWING TITLE	DATE	LATEST REVISION	
CS001	1 OF 14	COVER SHEET	8/19/2021	1/7/2022	
CD101	2 OF 14	EXISTING CONDITIONS AND SITE REMOVALS PLAN	8/19/2021	1/7/2022	
CS101	3 OF 14	SITE PLAN	8/19/2021	1/7/2022	
CS201	4 OF 14	TRUCK TURNING MOVEMENT PLAN	1/7/2022		
CG201	5 OF 14	GRADING AND DRAINAGE PLAN	11/29/2021	1/7/2022	
CU101	6 OF 14	UTILITY PLAN	10/8/2021	1/7/2022	
CE101	7 OF 14	EROSION AND SEDIMENT CONTROL PLAN	11/29/2021	11/29/2022	
CS501	8 OF 14	DETAILS (1 OF 3)	11/29/2021	1/7/2022	
CS502	9 OF 14	DETAILS (2 OF 3)	11/29/2021	11/29/2021	
CS503	10 OF 14	DETAILS (3 OF 3)	1/7/2022		
LL101	11 OF 14	SITE LIGHTING PLAN	12/30/2021	1/7/2022	
LL501	12 OF 14	SITE LIGHTING NOTES AND DETAILS	12/30/2021	1/7/2022	
LP101	13 OF 14	PLANTING PLAN	8/19/2021	1/7/2022	
LP501	14 OF 14	PLANTING NOTES AND DETAILS	8/19/2021	1/7/2022	



11/29/21 | PLANNING BOARD SUBMISSION |

ZBA SUBMISSION

Description

REVISIONS

09/09/21

LANGAN Landscape Architecture and Geology, D.P.C. One North Broadway, Suite 910 White Plains, NY 10601

T: 914.323.7400 F: 914.323.7401 www.langan.com

NEWBURGH COMMERCE CENTER SECTION No. 95, BLOCK No. 1, LOT No. 58

ORANGE COUNTY

APPLICANT:

OWNER:

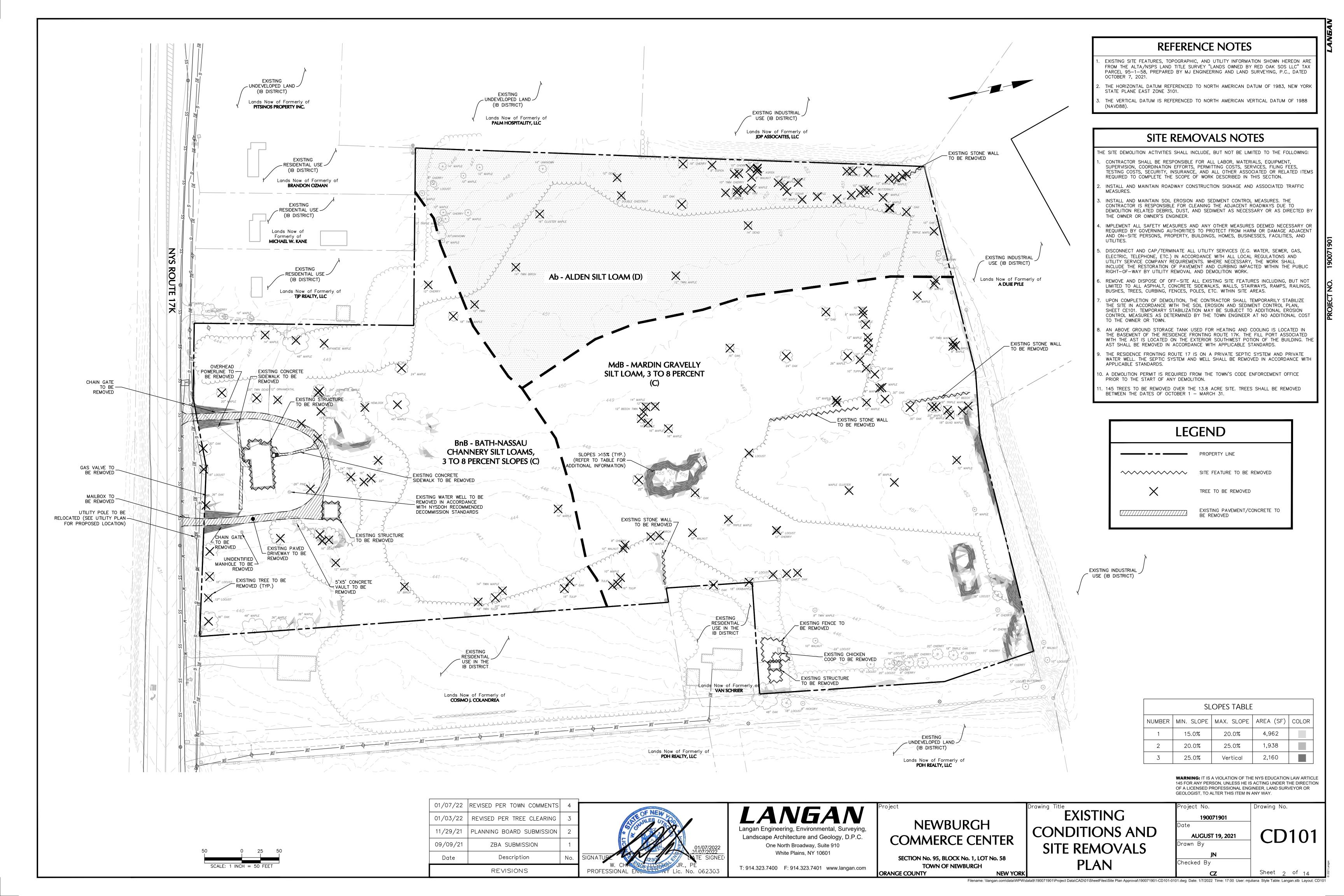
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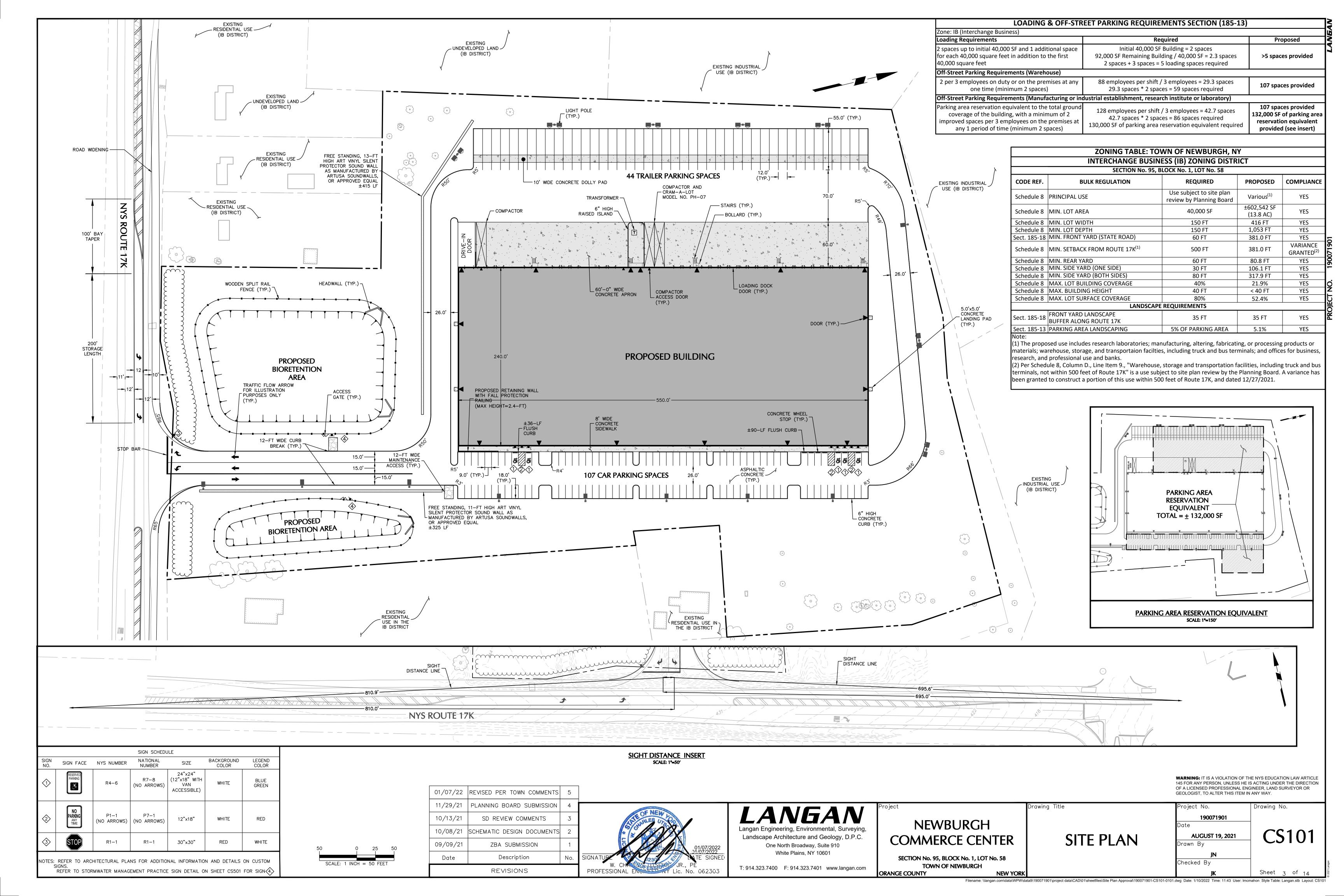
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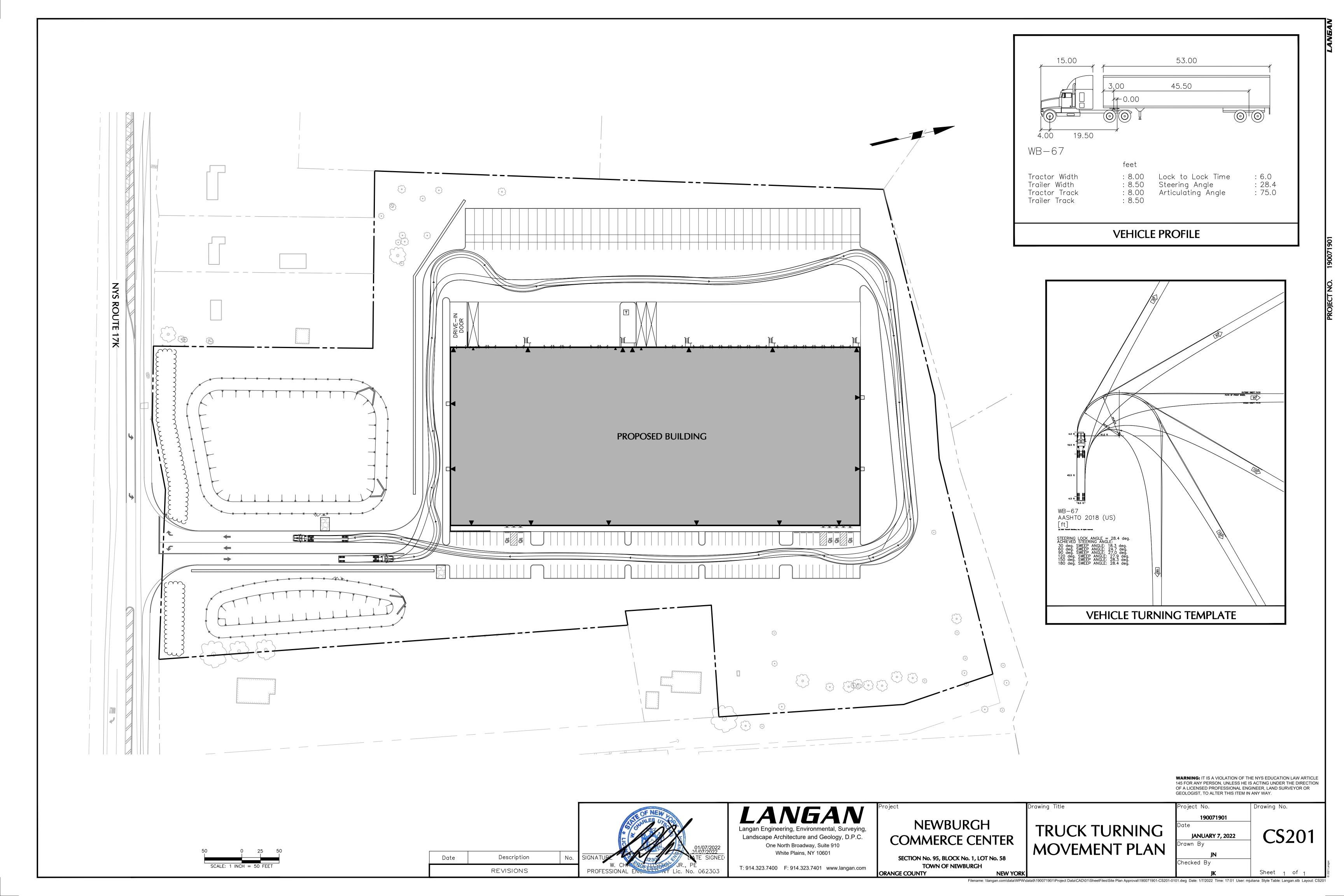
WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

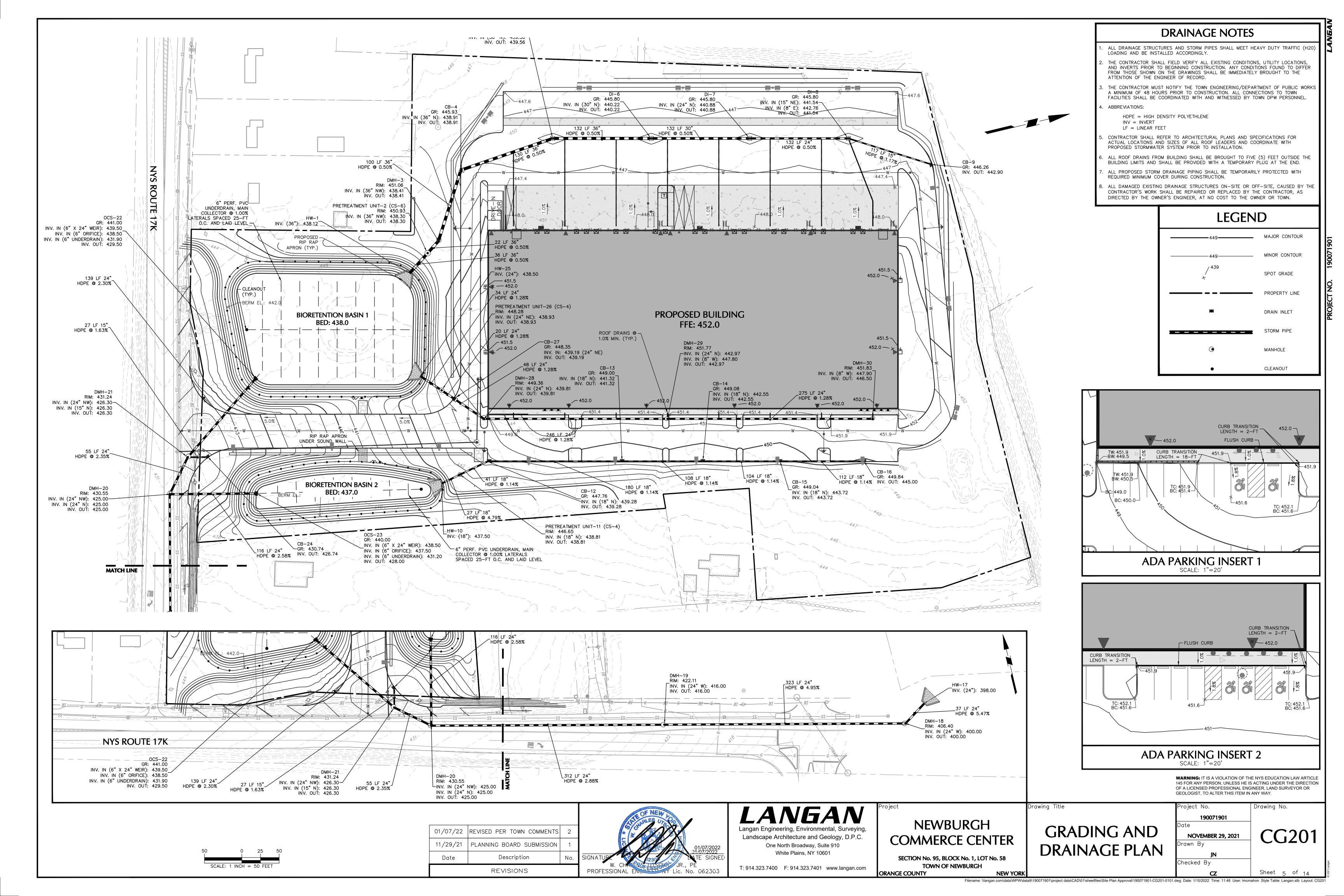
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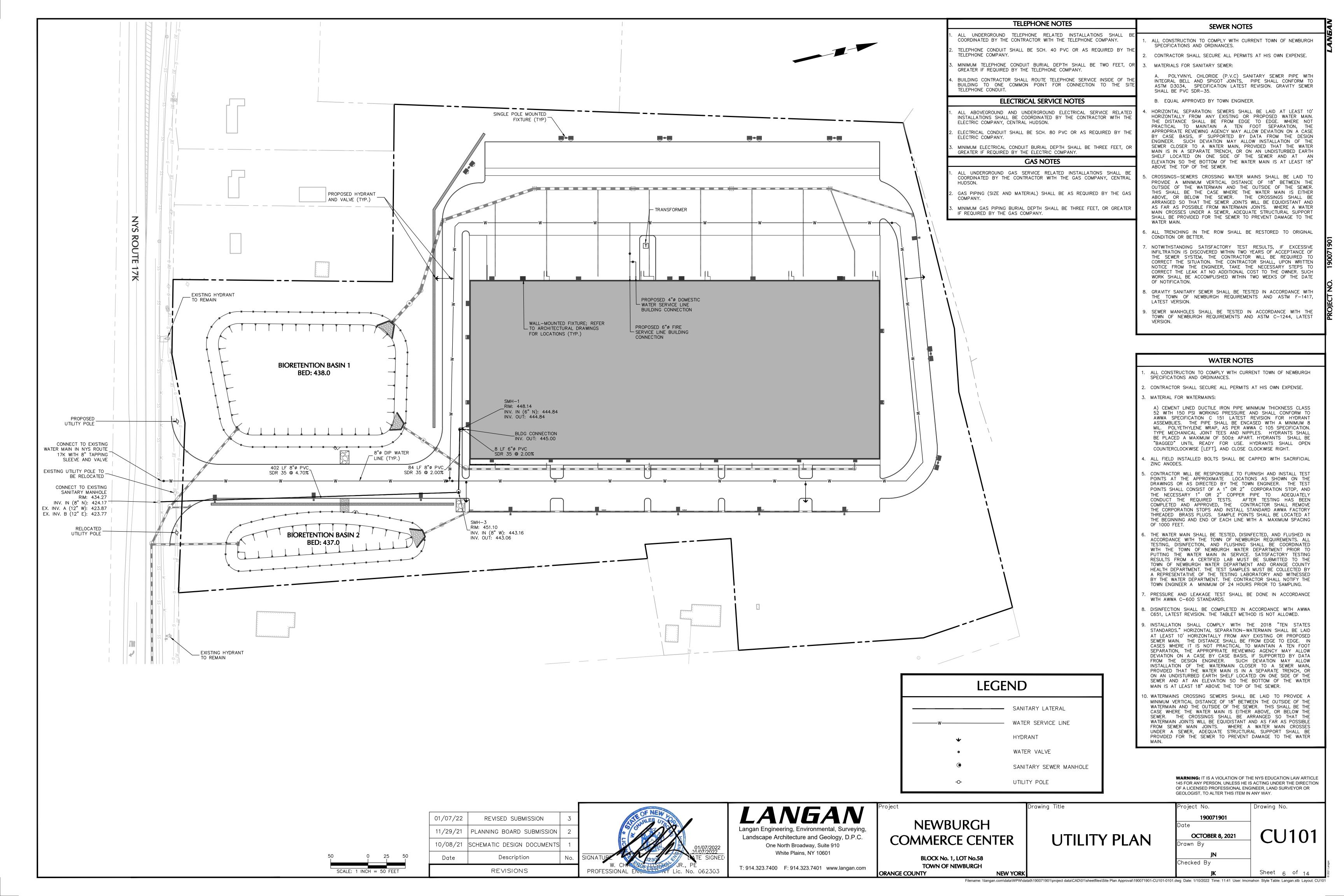
TOWN OF NEWBURGH

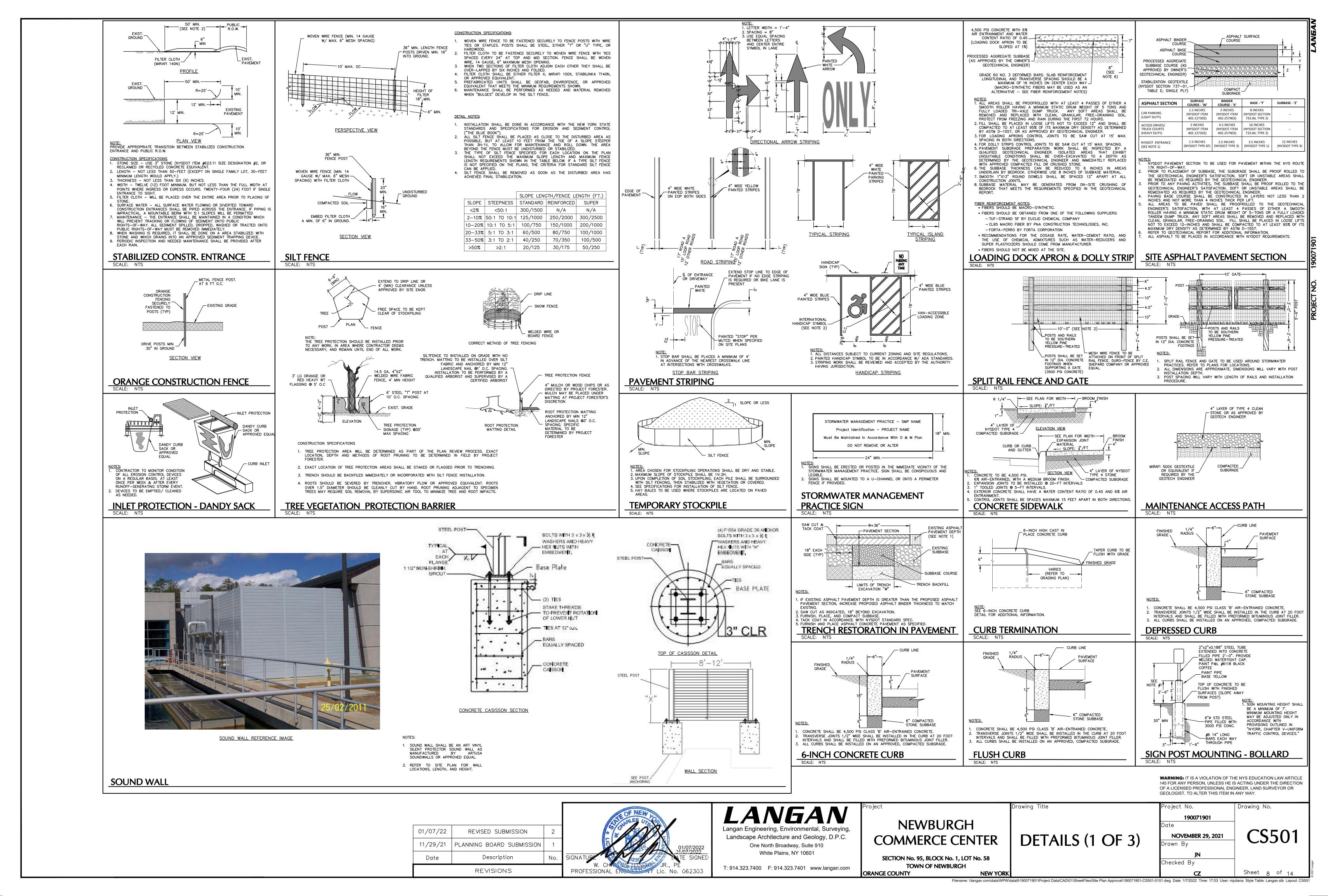


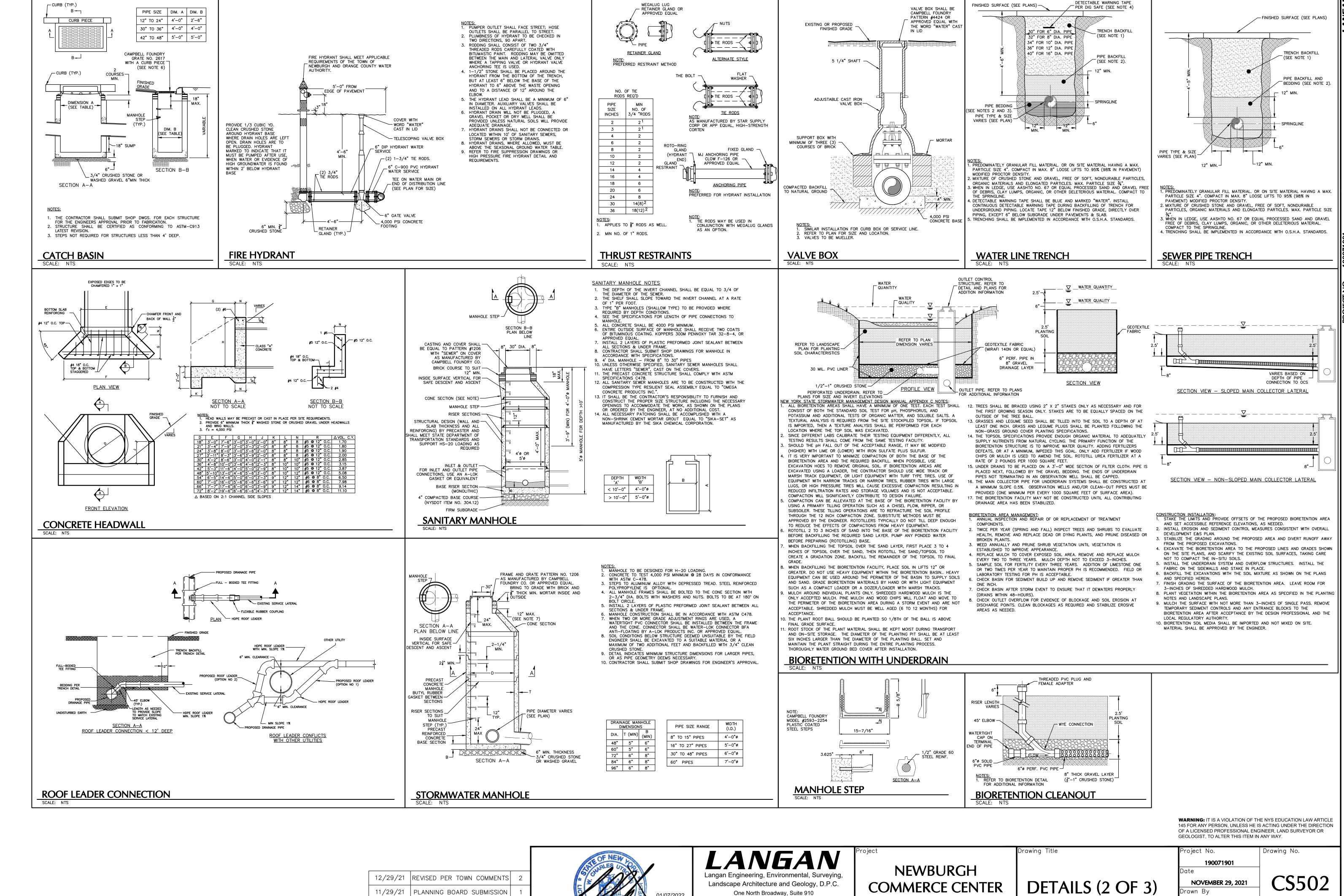












Date

Description

REVISIONS

White Plains, NY 10601

T: 914.323.7400 F: 914.323.7401 www.langan.com

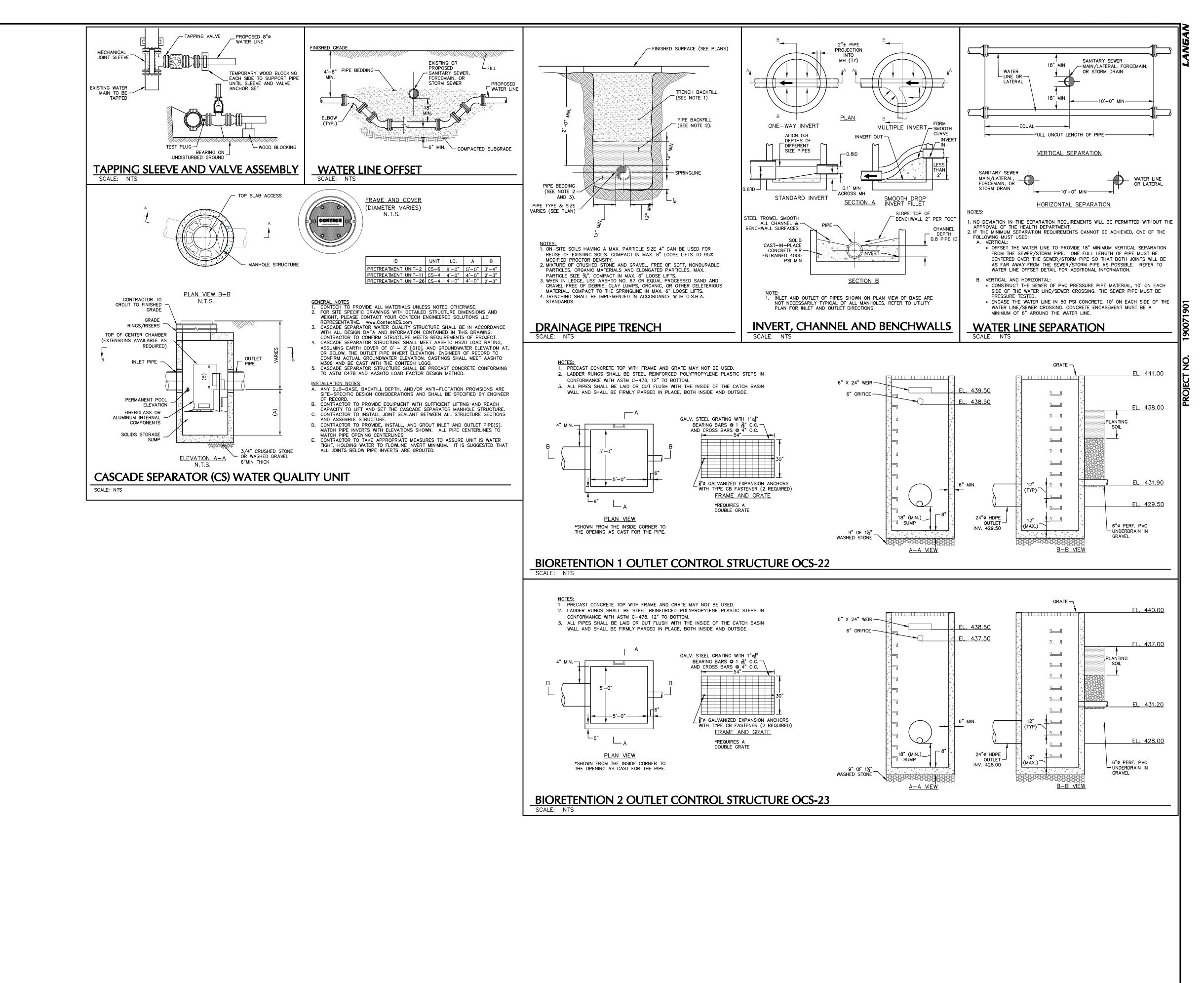
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SECTION No. 95, BLOCK No. 1, LOT No. 58

TOWN OF NEWBURGH

ORANGE COUNTY

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Date Description REVISIONS

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

T: 914.323.7400 F: 914.323.7401 www.langan.com

COMMERCE CENTER SECTION No. 95, BLOCK No. 1, LOT No. 58

TOWN OF NEWBURGH

DETAILS (3 OF 3)

JANUARY 7, 2022 rawn By Checked By

ORANGE COUNTY

Filename: \langan.com\data\WPW\data\\190071901\Project Data\CAD\\01\SheetFiles\Site Plan Approval\190071901-CS501-0101.dwg Date: 1/7/2022 Time: 17:03 User: mjuliana Style Table: Langan.stb Layout: CS503

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- 1. POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/ DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS.NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE
- 2. LIGHT LEVEL POINT SPACING IS 10 FT. LEFT TO RIGHT AND 10 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.

COMPLIANCE

- 3. ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
- 4. LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.

COORDINATION

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

POLES AND FOOTINGS

- 10. PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.
- 11. CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY
- 12. POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.
- 13. ALL POLES HIGHER THAN 25 FT. SHALL BE EQUIPPED WITH FACTORY INSTALLED VIBRATION DAMPENERS.

WALL MOUNTED FIXTURES

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

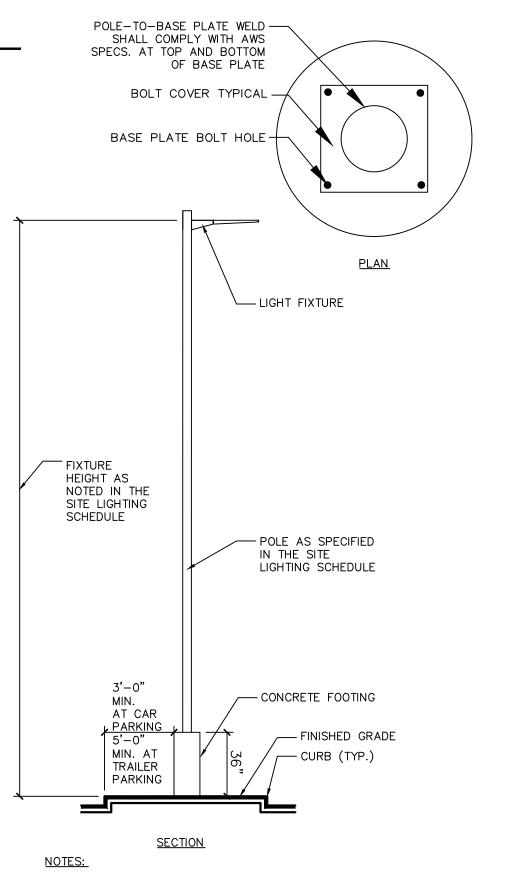
ADJUSTMENT AND INSPECTION

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

REQUIREMENTS FOR ALTERNATES

- 19. ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING A. ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER
- AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR B. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY
- ISOFOOTCANDLE, THE SYSTEM'S PERFORMANCE. C. A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS; IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING
- DESCRIPTION AND ALL OTHER PERTINENT INFORMATION. D. POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- E. THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE F. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED. THE

FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.



1. ALL LIGHT POLES TO RECEIVE FACTORY INSTALLED VIBRATION

2. REFER TO THE PLANS FOR THE DIMENSION FROM FACE OF CURB TO

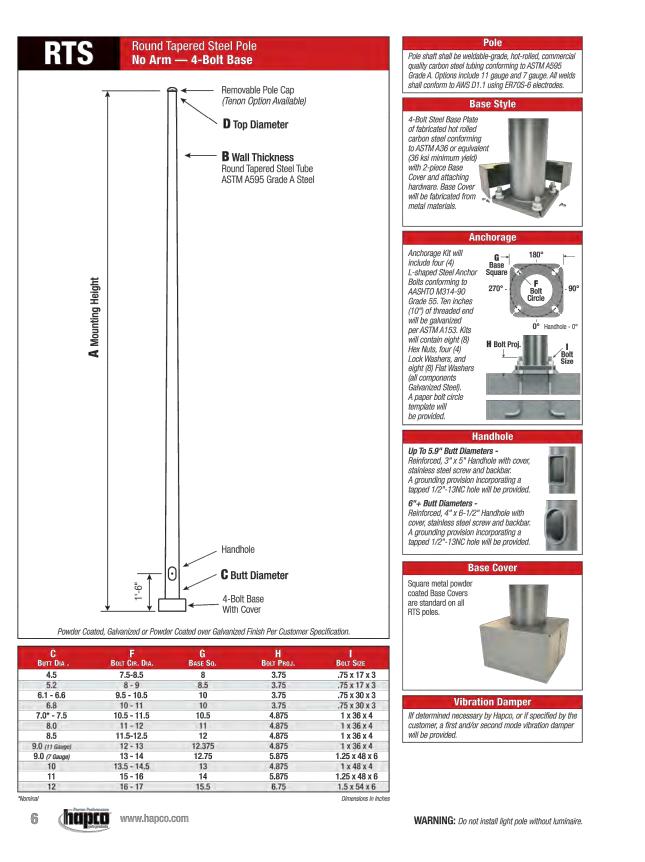
NTS

- #8 BARE GROUND WIRE



FIXTURE TYPE 'A, B, C, D, E, & F'







NTS

McGraw-Edison

INTU IP66 ENTIFED EVER

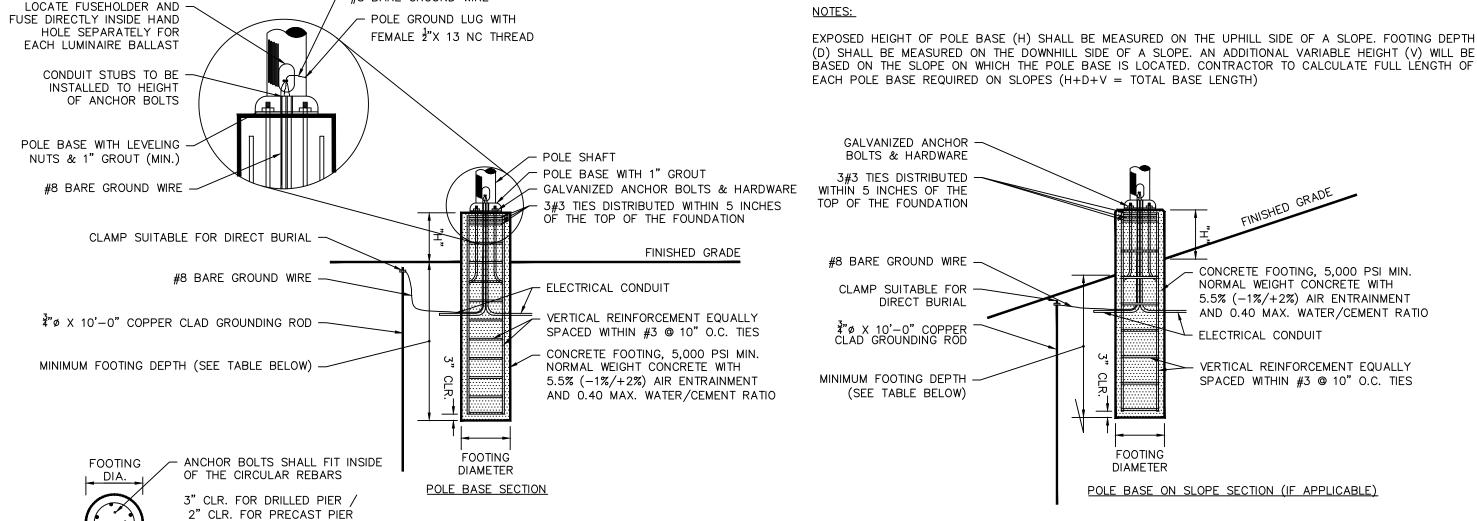
Impact Elite LED

Wall Mount Luminaire

P Connected Systems

WaveLinx

Enlighted



8. CONTRACTOR TO CONFIRM GROUNDING DESIGN WITH MEP.

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

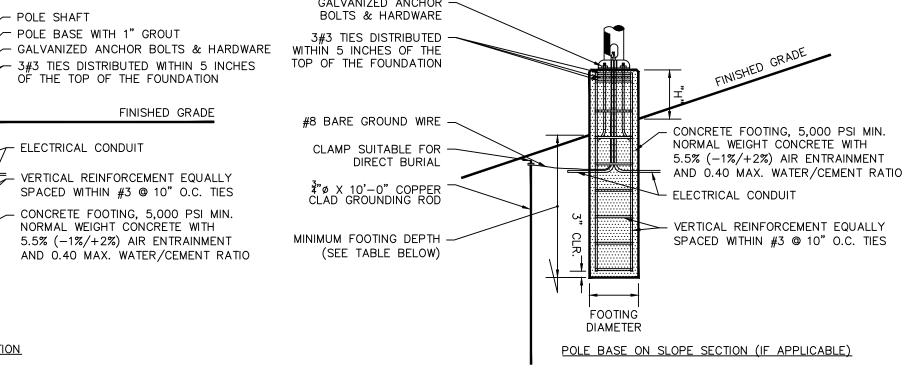
ROUND BASE

<u>PLAN</u>

4 LIGHT POLE BASE

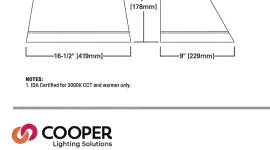
VERTICAL REINFORCEMENT EQUALLY SPACED

─ #3 TIES AT 10" O.C. WITH 6" LAP



1. SHAFT CAP, ARMS, BASE FLANGE, ANCHOR BOLTS, LEVELING NUTS, CONNECTION HARDWARE, BOLT COVERS, HANDHOLE COVER, AND BOLT

- CIRCLE TEMPLATE SHALL BE FURNISHED BY POLE MANUFACTURER. 2. EACH STANDARD TO BE PROTECTED AGAINST LIGHTNING WITH AN INTERCONNECTED GROUND ROD. THIS ROD SHALL BE BONDED PER SECTION NUMBER 250-86, N.E.C. 3. CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENT OF ACI 318. CAST-IN-PLACE SHALL HAVE UNCONFINED COMPRESSIVE STRENGTH OF AT LEAST 5.000 PSI AT 28-DAYS. DEFORMED REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- 4. CONTRACTOR TO ENSURE CONCRETE POLE BASES ARE POURED / PLACED ABSOLUTELY VERTICAL & LEVEL. 5. IF POLE BASE IS CAST-IN-PLACE, POLE BASE SHALL BE ONE CONTINUOUS POUR. EXPOSED PORTION OF BASE SHALL BE HAND-RUBBED
- CONTRACTOR TO COMPACT SUBGRADE AROUND POLE BASE PER EARTHWORK SPECIFICATIONS / GEOTECH REPORT. THE INFORMATION ILLUSTRATED IN THE LIGHT POLE FOUNDATION DETAIL HAS BEEN PROVIDED FOR GENERAL REFERENCE AND PRELIMINARY COST
- ESTIMATE PURPOSES. LIGHT POLE FOUNDATIONS SHOULD BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER BASED ON EXISTING SOIL CONDITIONS, LOCAL DESIGN STANDARDS AND MANUFACTURERS RECOMMENDATIONS.



Quick Facts

(20W - 66W)

• 10 Optical Distributions

Dimensional Details

Ordering Information page 2

Control Options page 4

Product Specifications page 2

Energy and Performance Data page 3

Lumen packages range from 2,459 to 8,123

Efficacy up to 143 lumens per watt

WALL LIGHT FIXTURE 'G'

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

01/07/22 REVISED SUBMISSION 10/08/21 SCHEMATIC DESIGN DOCUMENTS Description Date

REVISIONS

SIGNATURE DATE SIGNEI NY REGISTERED LANDSCAPE ARCHITECT Lic. No. 001901

LANGAN Landscape Architecture and Geology, D.P.C. One North Broadway, Suite 910

NTS

NEWBURGH COMMERCE CENTER

NTS

SITE LIGHTING **NOTES AND DETAILS** SECTION No. 95, BLOCK No. 1, LOT No. 58

Prawing Title

Drawing No. roject No. 190071901 **DECEMBER 30, 2021** rawn By hecked By

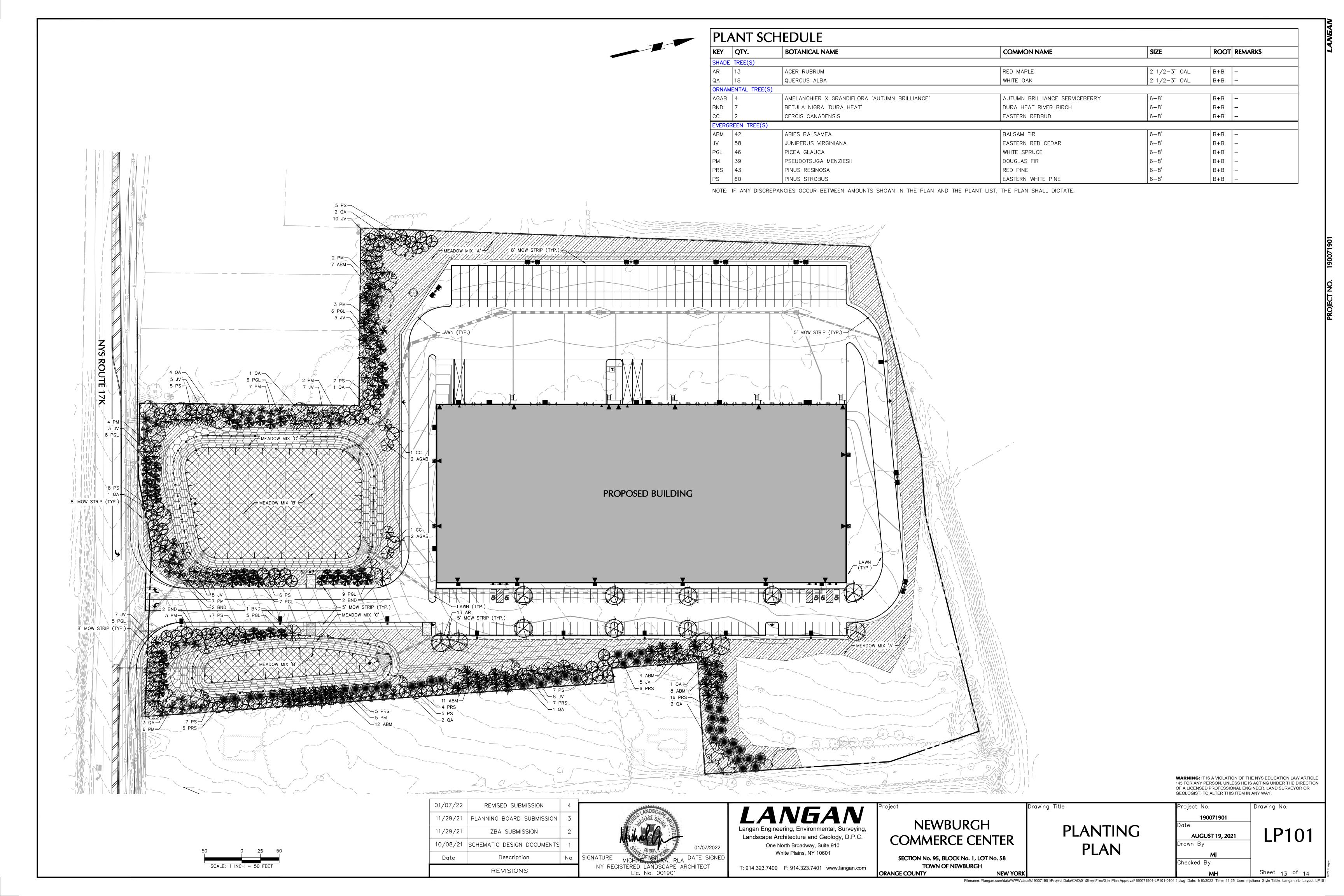
NOTE: SEE SHEET LL101 FOR LIGHTING PLAN, SCHEDULE

White Plains, NY 10601 T: 914.323.7400 F: 914.323.7401 www.langan.com ORANGE COUNTY

TOWN OF NEWBURGH Filename: \\langan.com\data\\WPW\data9\190071901\\Project Data\CAD\01\SheetFiles\Site Plan Approval\190071901-LL501-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Langan.stb Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Layout: LL500-0101.dwg Date: 1/10/2022 Time: 11:24 User: mjuliana Style Table: Ll500-0101.dwg Date: 1/10/2022 Time: 1/10/2022 Time:

NTS

AND STATISTICS



. ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST.

4. STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN

3. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.

ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION 5. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES

NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES. 6 THE CONTRACTOR SHALL VERIEY THE LOCATION OF ALL FXISTING LINDERGROUND LITILITY AND SEWER LINES PRIOR TO THE START OF EXCAVATION ACTIVITIES, NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.

7. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER, TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.

8. LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.

9. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. THE CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.

A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING

DELIVERY, AND WHILE STORED AT SITE.
TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSIT DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING C. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOTBALL WRAPPING AND BINDING MATERIA MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK

THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.

11. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND AND UNEVEN SURFACES PRIOR

12. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.

13. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE

14. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.

15. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.

16. THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.

17. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE PULLED DOWN SO 1/3 OF THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMOVED AFTER INSTALLATION

18. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.

19. ALL FENCE INSTALLATION SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE PLANTING, LAWN 20. FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN

21. PLANT MATERIALS SHALL NOT BE PLANTED UNTIL THE FINISHED GRADING HAS BEEN COMPLETED.

22. ALL PLANT INSTALLATIONS SHALL BE COMPLETED EITHER BETWEEN APRIL 1 - JUNE 15 OR AUGUST 15 -NOVEMBER 1, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. SEE LAWN SEEDING DATES

LAWN WATERING SCHEDULE

THE FOLLOWING WATERING SCHEDULE COVERS ROUGHLY 8 WEEKS TO ESTABLISH A HEALTHY STAND OF GRASS FROM SEED. THE CONTRACTOR SHALL BE OBLIGATED TO ENSURE A HEALTHY STAND OF GRASS AT THE END OF THE MAINTENANCE /BOND PERIOD. ANY BARE OR DEAD AREAS IN THE LAWN SHALL BE PREPARED. RESEEDED AND REESTABLISHED PRIOR TO THE END OF THE MAINTENANCE/BOND PERIOD AND TO THE SATISFACTION OF THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER.

IMPORTANT ASPECTS TO ATTAINING AND SUSTAINING A HEALTHY STAND OF GRASS ARE THE INSTALLATION OF TOPSOIL, SEED BED PREPARATION, ATTAINING OPTIMAL pH FOR THE INTENDED PLANT SPECIES, FERTILIZING, MULCH COVERING, AND SUFFICIENT WATERING PER THESE NOTES AND/OR PROJECT SPECIFICATIONS.

1. SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT 2 AFTER THE SEEDBED IS PREPARED. SEED IS INSTALLED, AND MULICH IS APPLIED. WATER LIGHTLY TO KEEP THE

TOP 2 INCHES OF SOIL CONSISTENTLY MOIST, NOT SATURATED. AT NO TIME SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE DISPLACEMENT OF SEED. 3. DEPENDING ON SOIL TEMPERATURES, IT MAY TAKE SEVERAL WEEKS FOR GERMINATION TO OCCUR. DIFFERENT SPECIES WITHIN THE MIX GERMINATE AT DIFFERENT TIMES AND THEREFORE CONTRACTOR SHOULD CONTINUE THE

LIGHT WATERING, AS DESCRIBED ABOVE, UNTIL THERE IS AT LEAST 2 INCHES OF GROWTH THROUGHOUT. 4. AT THIS POINT, WATERING FREQUENCY MAY BE REDUCED TO EVERY 3 TO 5 DAYS. WATER SHALL BE APPLIED

TO WET A 6 INCH MINIMUM SOIL DEPTH TO PROMOTE HEALTHY DEEP ROOTS. 5. BEGIN MOWING ONCE PER WEEK AFTER THE GRASS HAS REACHED 3 INCHES HEIGHT. MOW TO A HEIGHT OF NO LESS THAN 2-1/2 INCHES. AFTER 2 TO 3 WEEKS OF MOWING, CONTINUE TO WATER TO A 6 INCH MINIMUM SOIL DEPTH AS NECESSARY PER WEATHER CONDITIONS, AND SOIL MOISTURE SENSORS IF APPLICABLE.

LAWN SEED MIX

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

A) SEED RATE:

) NEW ESTABLISHMENT: SEED AT A RATE OF 6-8 LBS/1000 SQ FT RENOVATION: 20-50% EXISTING COVER: 5-7 LBS/1000 SQ FT

2. GENERAL SEED NOTES:

A) FINAL SEED MIXTURES, RATES, AND SPECIES TO BE DETERMINED BASED ON PROJECT LANDSCAPE ARCHITECT

B) SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO OCTOBER 15). C) ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A GLYPHOSATE-BASED HERBICIDE PER

50-75% EXISTING COVER: 4-6 LBS/1000 SQ FT

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

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

PLANTING SOIL SPECIFICATIONS

1. PLANTING SOIL, ALTERNATELY MAY BE REFERRED TO AS TOPSOIL, SHOULD BE FRIABLE, FERTILE, WELL DRAINED FREE OF DEBRIS, TOXINS, TRASH AND STONES OVER 1/2" DIA., IT SHOULD HAVE A HIGH ORGANIC CONTENT SUITABLE TO SUSTAIN HEALTHY PLANT GROWTH AND SHOULD LOOK AESTHETICALLY PLEASING HAVING NO NOXIOUS

REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. IF ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING. TH CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANS AND SPECIFICATIONS.

SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR

CONTRACTOR SHALL TEST SOILS AND FURNISH SAMPLES UPON REQUEST. PACKAGED MATERIALS SHALL BE UNOPENED BAGS OR CONTAINERS, EACH BEARING A NAME, GUARANTEE, AND TRADEMARK OF THE PRODUCER MATERIAL COMPOSITION, MANUFACTURER'S CERTIFIED ANALYSIS, AND THE WEIGHT OF THE MATERIALS. SOIL OR MENDMENT MATERIALS SHALL BE STORED ON SITE TEMPORARILY IN STOCKPILES PRIOR TO PLACEMENT AND SHALL E PROTECTED FROM INTRUSION OF CONTAMINANTS AND EROSION. AFTER MIXING, SOIL MATERIALS SHALL BE OVERED WITH A TARPAULIN UNTIL TIME OF ACTUAL USE.

ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.

A. THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT FOR a. PARTICLE SIZE ANALYSIS - LOAMY SAND: 60-75% SAND, 25-40% SILT, AND 5-15% CLAY. b. FERTILITY ANALYSIS: pH (5.5-6.5), SOLUBLE SALTS (LESS THAN 2 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM CALCIUM AND MAGNESIUM

f. NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE

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

c. ORGANIC MATTER CONTENT: 2.5-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS

e. MATERIAL DRAINAGE RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED

d. COARSE SAND

d. TOXIC SUBSTANCE ANALYSIS

1) PARTICLE SIZE ANALYSIS PERCENT PASSING 3/8 INCH (9.5 MM) NO 4 (4.75 MM) NO 8 (2.36 MM) 80-100 50-85 NO 16 (1.18 MM) NO 30 (.60 MM) 25-60 10-30 NO 50 (.30 MM) NO 100 (.15 MM) NO 200 (0.75 MM

2) CHEMICAL ANALYSIS PH: LOWER THAN 7.0 TOXIC SUBSTANCE ANALYSIS

e. FINAL BIORETENTION MIX

1) PARTICLE SIZE ANALYSIS

a) SAND - 80-85% b) SILT - 10-15% c) CLAY - 2-5%

NOT MORE THAN 1% OF MATERIAL TO BE RETAINED BY A #4 SIEVE

2) CHEMICAL ANALYSIS

b) SOLUBLE SALTS: LESS THAN 2 MMHO/CM

3) CONTRACTOR TO SUBMIT TOXIC SUBSTANCE ANALYSIS AND MATERIAL DRAINAGE RATE IN ADDITION TO INFORMATION LISTED ABOVE. DRAINAGE RATE OF MATERIAL TO EXCEED 1 INCH/HOUR

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

A. ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MOLD WITH 60-90% ORGANIC CONTENT BY WEIGHT. SHREDDED LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, STONES OVER 1/2", WOOD

B. SOIL IN BEDS AND PLANTING ISLANDS OTHER THAN BACKFILL MATERIAL AND TOPSOIL, SHOULD BE FRIABLI

WELL DRAINED, AND FREE OF DEBRIS, INCLUDING STONES AND TRASH. C. AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS: a. GROUND LIMESTONE (WITH A MIN. OF 88% OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING

- BRING pH LEVELS TO 5.5 MIN. TO 6.5 FOR NON-ERICACEOUS PLANTS - BRING pH LEVELS TO 4.5 MIN. TO 5.5 FOR ERICACEOUS PLANTS b. TERRA-SORB BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN PLANTER BACKFILL MIXTURE WITH TREES AND SHRUBS

c. MYCOR-ROOT SAVER BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN BACKFILL MIXTURE WITH TREES.

5. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2%) OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS AND NOTES.

6. CLEAN SOIL FILL IN LANDSCAPE AREAS: LANDSCAPE FILL MATERIAL, BELOW PLANTING SOILS, SHALL HAVE THE PHYSICAL PROPERTIES OF A SANDY LOAM WITH AN ORGANIC CONTENT OF LESS THAN 2% AND A PH BETWEEN 5 - 7

A. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM DEPTH PLANTING SOIL LAYER IN LAWN AREAS, TWELVE INCHES (12") MINIMUM DEPTH PLANTING SOIL LAYER IN GROUNDCOVER AND PERENNIAL AREAS, EIGHTEEN INCHES (18") MINIMUM DEPTH PLANTING SOIL LAYER IN SHRUB AREAS, AND THIRTY-SIX INCHES (36") MINIMUM DEPTH PLANTING SOIL LAYER IN TREE PLANTING AREAS.

B. SCARIFY AND/OR TILL COMPACTED SUBSOILS TO A MINIMUM DEPTH OF 6 INCHES. THOROUGHLY MIX A 6 INCH DEPTH LAYER OF PLANTING SOIL INTO THE SUBSOIL PRIOR TO PLACING PLANTING SOIL AT THE DEPTHS INDICATED ABOVE. PLANTING SOIL SHALL BE PLACED IN 12–18" LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. REPEAT UNTIL DEPTHS AND FINISH GRADES HAVE BEEN ACHIEVED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.

C. PLANTING SOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE PLANTING SOIL UTILIZED IN ALL PLANTING AREAS.

A. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER pI USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LIMESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 88% CALCIUM AND MAGNESIUM CARBONATES AND SHALL HAVE TOTAL 100% PASSING THE 10 MESH SIEVE, MINIMUM 90% PASSING 20 MESH SIEVE, AND MINIMUM 60% PASSING 100 MESH SIEVE.

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

C. SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS):

a. THOROUGHLY TILL ORGANIC MATTER (LEAF COMPOST) INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. ALL PRODUCTS SHOULD BE OMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.0. PEAT MOSS MAY NOT BE USED AS ORGANIC MATTER

b. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.

c. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

MEADOW SEED NOTES

 $\underline{\mathsf{MEADOW}}$ SEED MIX A - ERNST SEED MIX ERNMX-123 "NATIVE UPLAND WILDLIFE FORAGE & COVER MEADOW MIX"

34.9% ANDROPOGON GERARDII, 'NIAGARA' 27.0% PANICUM VIRGATUM, 'CAVE-IN-ROCK 21.0% ELYMUS VIRGINICUS, 'MADISON' 9.0% SORGHASTRUM NUTANS, 'TOMAHAWK 3.0% RUDBECKIA HIRTA, PA ECOTYPE

INDIANGRASS, 'TOMAHAWK' BLACKEYED SUSAN, PA ECOTYPE 2.0% CHAMAECRISTA FASCICULATA, PA ECOTYPE PARTRIDGE PEA, PA ECOTYPE 1.5% HELIOPSIS HELIANTHOIDES, PA ECOTYPE OXEYE SUNFLOWER, PA ECOTYPE 1.0% CORFORSIS TINCTORIA PLAINS CORFORSIS 0.4% DESMODIUM CANADENSE, PA ECOTYPE SHOWY TICKTREFOIL, PA ECOTYPE 0.1% ASCLEPIAS SYRIACA

SEED AT A RATE OF 20 LB/ACRE OF 100% PURE LIVE SEED

COMMON MILKWEED 0.1% MONARDA FISTULOSA, PA ECOTYPE WILD BERGAMOT, PA ECOTYPE

BIG BLUESTEM, 'NIAGARA'

SWITCHGRASS, 'CAVE-IN-ROCK'

VIRGINIA WILDRYE, 'MADISON'

2. MEADOW SEED MIX B ERNST SEED MIX ERNMX-183 "NATIVE DETENTION AREA MIX" 32% PANICUM CLANDESTINUM, 'TIOGA' DEERTONGUE, 'TIOGA' FOX SEDGE 20% CAREX VULPINOIDEA 20% ELYMUS VIRGINICUS VIRGINIA WILDRYE 20% PANICUM VIRGATUM, 'SHAWNFF' SWITCHGRASS, 'SHAWNEE' 4% AGROSTIS PERENNANS, ALBANY PINE BUSH AUTUMN BENTGRASS, ALBANY PINE BUSH PATH RUSH SOFT RUSH % JUNCUS EFFUSUS

1. SEED AT A RATE OF 20 LBS/ACRE OF 100% PURE LIVE SEED. 2. FOR SPRING SEEDING, APPLY A NURSE CROP OF OATS AT A RATE OF 30 LBS/ACRE. 3. FOR FALL SEEDING, APPLY A NURSE CROP OF WINTER RYE AT A RATE OF 30 LBS/ACRE.

REDTOP PANICGRASS

MEADOW SEED MIX C - ERNMX-181 "NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS" ANNUAL RYFGRASS 20% LOLIUM MULTIFLORUM 14% ANDROPOGON GERARDII. 'NIAGARA' BIG BLUESTEM 'NIAGARA' 10% ELYMUS VIRGINICUS VIRGINIA WILDRYE 7% ELUYMUS CANADENSIS 4% AGROSTIS PERENNANS CANADA WILDRYF AUTUMN BENTGRASS PANICUM VIRGATUM 'CARTHAGE' SWITCHGRASS, 'CARTHAGE PANICUM CLANDESTINUM, TIOGA DEERTONGUE, TIOGA .5% ECHINACEA PURPUREA URPLE CONEFLOWER .3% CHAMAECRISTA FASCICULATA PARTRIDGE PEA 1.2% HELIOPSIS HELIANTHOIDES OXEYE SUNFLOWER RUDBECKIA HIRTA BLACKEYED SUSAN % MONARDA FISTULOSA 2% ASCLEPIAS SYRIACA COMMON MILKWEED SOLIDAGO RUGOSA WRINKLELEAF GOLDENROD CALICO ASTER % ASTER LATERIFLORUS .1% ASTER PILOSUS HEATH ASTER

SEED AT A RATE OF 60 LBS/ACRE OF 100% PURE LIVE SEED.

6. NO DRILL SEEDING IS TO TAKE PLACE UNDER EXISTING TREES TO REMAIN.

1. FINAL SEED MIXTURES, RATES & SPECIES TO BE DETERMINED BASED ON SCD REVIEW. SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO OCTOBER 15 3. ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A NON-SELECTIVE HERBICIDE PER MANUFACTURER'S SPECIFICATIONS. IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL WHERE APPLICABLE. 5. THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW PROPER

WEED CONTROL / MAINTENANCE

DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDING IF WEED HEIGHT EXCEEDS MEADOW MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NOT MOW CLOSE, AS SOME OF THE MEADOW MIX MAY BE DAMAGED. AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL BE MOWED ONLY ONCE ANNUALLY. ANNUAL MAINTENANCE MOWING SHALL BE DONE IN LATE WINTER DURING THE MONTH OF MARCH. MOW IN DETENTION BASIN AND WETLAND TRANSITION AREAS DURING DRIER SITE CONDITIONS WHEN SOIL DISTURBANCE WILL NOT OCCUR. MAINTENANCE FOR DETENTION BASIN AND WETLAND TRANSITION AREAS SHALL OCCUR DURING LATE SUMMER (JULY 15 - AUGUST 15) WHEN THE WATER TABLE IS USUALLY AT ITS LOWEST POINT OF THE YEAR. DO NOT MOW IN DETENTION BASIN, WETLAND OR WETLAND TRANSITION AREAS AFTER ESTABLISHMENT OF

LANDSCAPE MAINTENANCE NOTES

MAINTENANCE OPERATIONS BEFORE APPROVAL:

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

B. CARE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR OTHER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS. MAINTAINING STAKES AND GUYS AS ORIGINALLY INSTALLED. WATERING WHEN NEEDED OR DIRECTED, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.

C. CONTRACTOR SHALL REMOVE AND REPLACE ALL DEAD, DEFECTIVE AND/OR REJECTED PLANTS AS REQUIRED BEFORE FINAL ACCEPTANCE. 2. MAINTENANCE DURING CONSTRUCTION:

A. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING. PLANTS SHALL BE WATERED, MULCHED. WEEDED. PRUNED. SPRAYED. FERTILIZED. CULTIVATED. AND OTHERWISI MAINTAINED AND PROTECTED UNTIL PROVISIONAL ACCEPTANCE. SETTLED PLANTS SHALL BE RESET TO PROPER GRADE AND POSITION. PLANTING SAUCER RESTORED AND DEAD MATERIAL REMOVED. STAKES AND WIRES SHALL BE TIGHTENED AND REPAIRED DEFECTIVE WORK SHALL BE CORRECTED AS SOON AS POSSIBLE AFTER IT BECOMES APPARENT AND WEATHER AND SEASON PERMI

B. IF A SUBSTANTIAL NUMBER OF PLANTS ARE SICKLY OR DEAD AT THE TIME OF INSPECTION, ACCEPTANCE SHALL NOT BE GRANTED AND THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF ALL PLANTS SHALL BE EXTENDED FROM THE TIME REPLACEMENTS ARE MADE OR EXISTING PLANTS ARE DEEMED ACCEPTABLE BY THE

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

D. PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER INSPECTION AND

E. AT THE END OF THE ESTABLISHMENT PERIOD, INSPECTION SHALL BE MADE AGAIN. ANY PLANT REQUIRED UNDER THIS CONTRACT THAT IS DEAD OR UNSATISFACTORY TO THE LANDSCAPE ARCHITECT OR OWNER SHALL BE REMOVED FROM THE SITE AND REPLACED DURING THE NORMAL PLANTING SEASON.

A. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH PORTION OF LAWN IS PLANTED AND CONTINUE FOR 8 WEEKS AFTER ALL LAWN PLANTING IS COMPLETED.

B. WATER TO KEEP SURFACE SOIL MOIST. REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL. LIMING. FERTILIZING AND RE-SEEDING: MOW TO 2 1/2 - 3 INCHES AFTER GRASS REACHES 3 1/2 INCHES IN HEIGHT, AND MOW FREQUENTLY ENOUGH TO KEEP GRASS FROM EXCEEDING 3 1/2 INCHES. WEED BY LOCAL SPOT APPLICATION OF SELECTIVE HERBICIDE ONLY AFTER GRASS IS WELL-ESTABLISHED.

TREE PROTECTION NOTES:

1. ALL EXISTING TREES WITHIN THE LIMITS OF TREE PROTECTION FENCING. SHALL BE PROTECTED THOUGHOUT THE DURATION OF WORK. PROTECTION FENCING SHALL BE INSTALLED AT THE DRIP-LINE OF THE PROTECTED TREE UNLESS CONDITIONS WARRANT THE FENCE TO BE LOCATED WITHIN THE LIMIT OF BRANCHING. THE PROJECT LANDSCAPE ARCHITECT TO APPROVE THE LOCATION OF ALL FENCING PRIOR TO

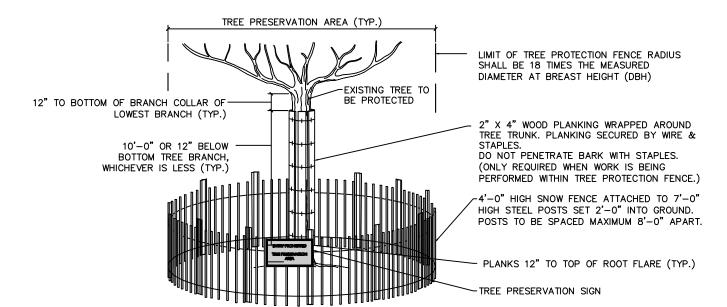
2. TREE PROTECTION PLANKING SHALL BE INSTALLED AROUND ALL EXISTING TREES AS NOTED ON THIS DRAWING. REFER TO DETAIL ON THIS

TREE PROTECTION FENCING SHALL BE MAINTAINED TO PROTECT TREES AT ALL TIMES. ANY DAMAGED FENCING SHALL BE IMMEDIATELY

4. IF TREE PROTECTION FENCING NEEDS TO BE MOVED OR BREACHED DUE TO TEMPORARY CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION ZONE, THE FENCING WILL BE RESET TO ITS ORIGINAL LOCATION IMMEDIATELY AFTER CONSTRUCTION WITHIN THE TREE

5. DEMOLITION WORK ADJACENT TO PROTECTED TREES SHALL BE PERFORMED BY NON-MECHANICAL METHODS. CONTRACTOR TO PROTECT ROOT MASS AGAINST DAMAGE DURING EXCAVATION. ANY TREE ROOTS THAT ARE DISTURBED, BROKEN, OR CUT SHALL BE PRUNED BACK WITH

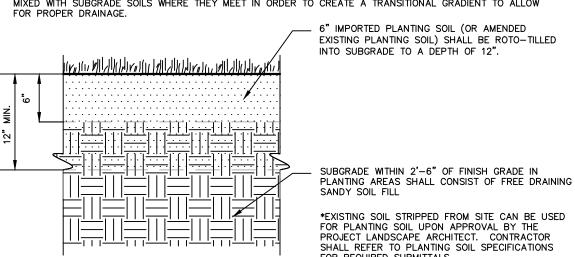
6. ALL EXPOSED TREE ROOTS SHALL BE THOROUGHLY IRRIGATED ON A DAILY BASIS AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. 7. ALL WORK TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF EITHER THE OWNER'S REPRESENTATIVE OR THE PROJECT LANDSCAPE

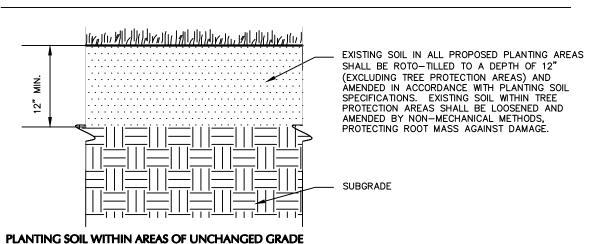


TREE PROTECTION FENCE AND PLANKING

PLANTING SOIL WITHIN AREAS OF CUT OR RAISED GRADE

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





NOTES:

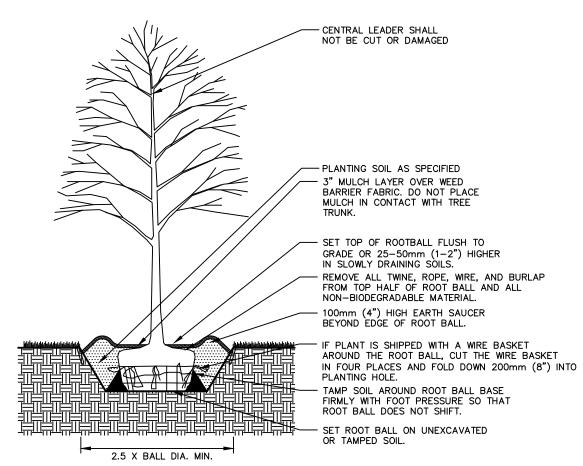
1. CONTRACTOR IS RESPONSIBLE TO SEND SAMPLES OF EXISTING SOILS INTENDED FOR USE IN PLANTING AREAS (1 PER 500 CY.) TO TESTING LABORATORY OR UNIVERSITY COOPERATIVE EXTENSION FOR TESTING. ALL TESTING COSTS ARE AT THE CONTRACTOR'S EXPENSE.

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

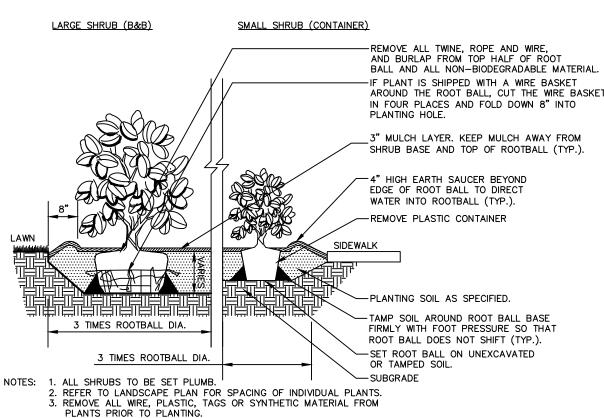
4. CONTRACTOR TO LIGHTLY COMPACT ALL PLACED PLANTING SOILS AND RAISE GRADES ACCORDINGLY TO ALLOW FOR FUTURE SETTLEMENT OF PLANTING SOILS (TYP.) 5. NO STONES, WOOD CHIPS, OR DEBRIS LARGER THAN 1/2" SHALL BE ACCEPTABLE WITHIN PLANTING AREAS.

PLANTING SOII

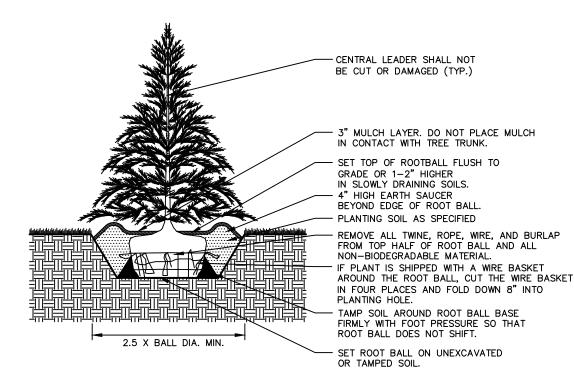
NTS



<u>TREE PLANTING</u>



SHRUB AND ORNAMENTAL GRASS PLANTING



5 EVERGREEN TREE PLANTING

NTS

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

01/07/22 REVISED SUBMISSION 10/08/21 SCHEMATIC DESIGN DOCUMENTS Description Date





NEWBURGH COMMERCE CENTER

AND DETAILS SECTION No. 95, BLOCK No. 1, LOT No. 58 **TOWN OF NEWBURGH**

rawing Title

PLANTING NOTES rawn By

Drawing No. 190071901 **AUGUST 19, 2021** Checked By

NOTE: SEE SHEET LP101 FOR PLANTING PLAN

REVISIONS

SIGNATURE NY REGISTERED LANDSCAPE ARCHITECT

T: 914.323.7400 F: 914.323.7401 www.langan.com

ORANGE COUNTY

Filename: \\langan.com\data\WPW\data9\190071901\Project Data\CAD\01\SheetFiles\Site Plan Approval\190071901-LP501-0101.dwg Date: 1/10/2022 Time: 11:25 User: mjuliana Style Table: Langan.stb Layout: LL50°