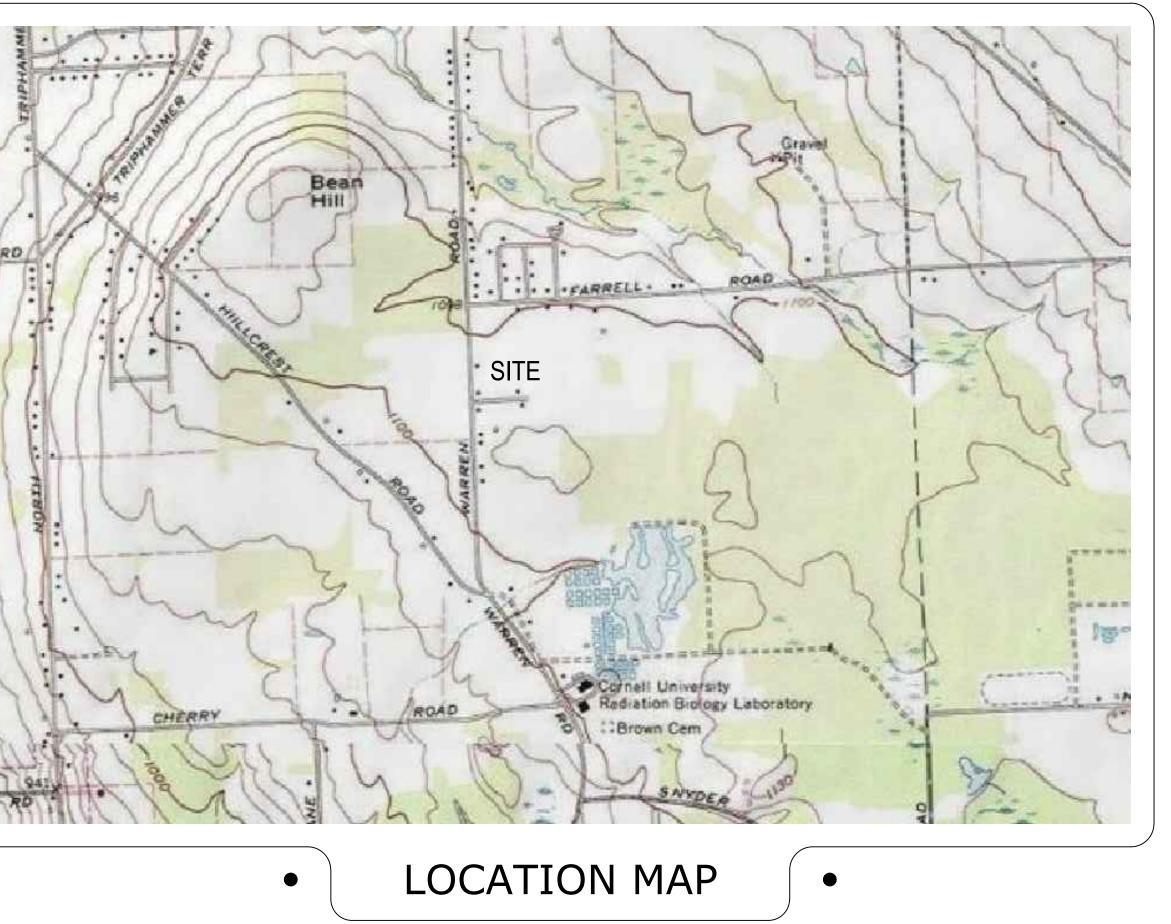
# VILLAGE CIRCLE-VILLAGE SOLARS PDA - PHASE VII 1067 WARREN ROAD LANSING (T), NEW YORK

# PLANNING/ZONING DATA - PHASE VII

R-2 WITH 572 UNIT PDA
5.31 ACRES
2.55 ACRES
2.76 ACRES
52%
138
205
1.5

# PREPARED FOR:

LUCENTE HOLDINGS, LLC. 1067 WARREN ROAD, SUITE B LANSING, NY 14882



N.T.S.

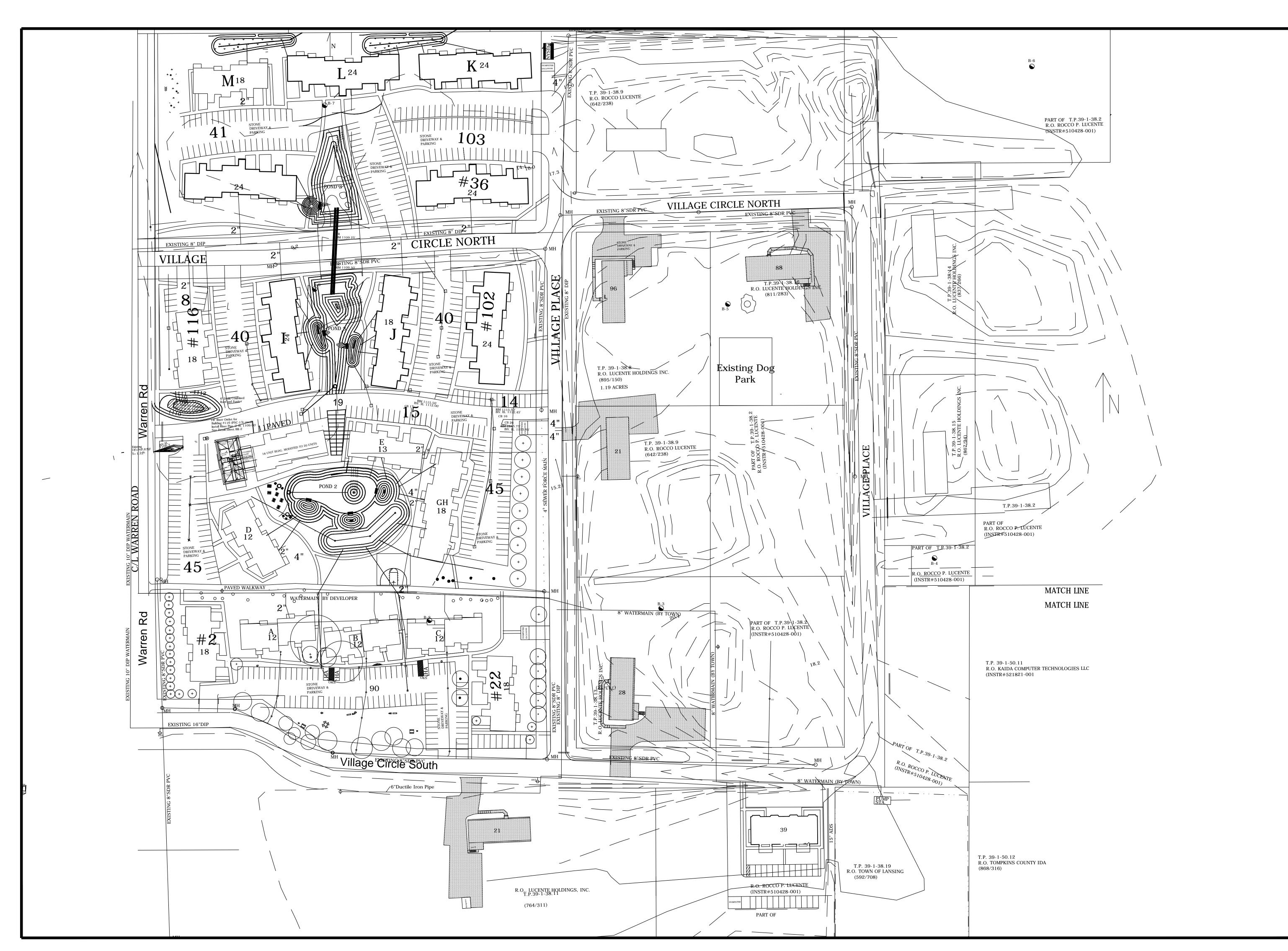
DATE: JULY 19, 2022

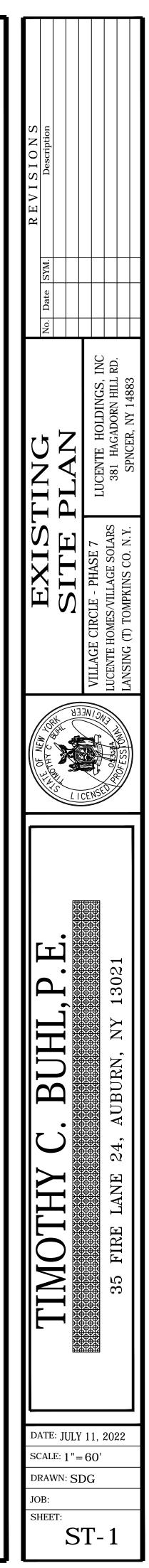
## INDEX OF DRAWINGS

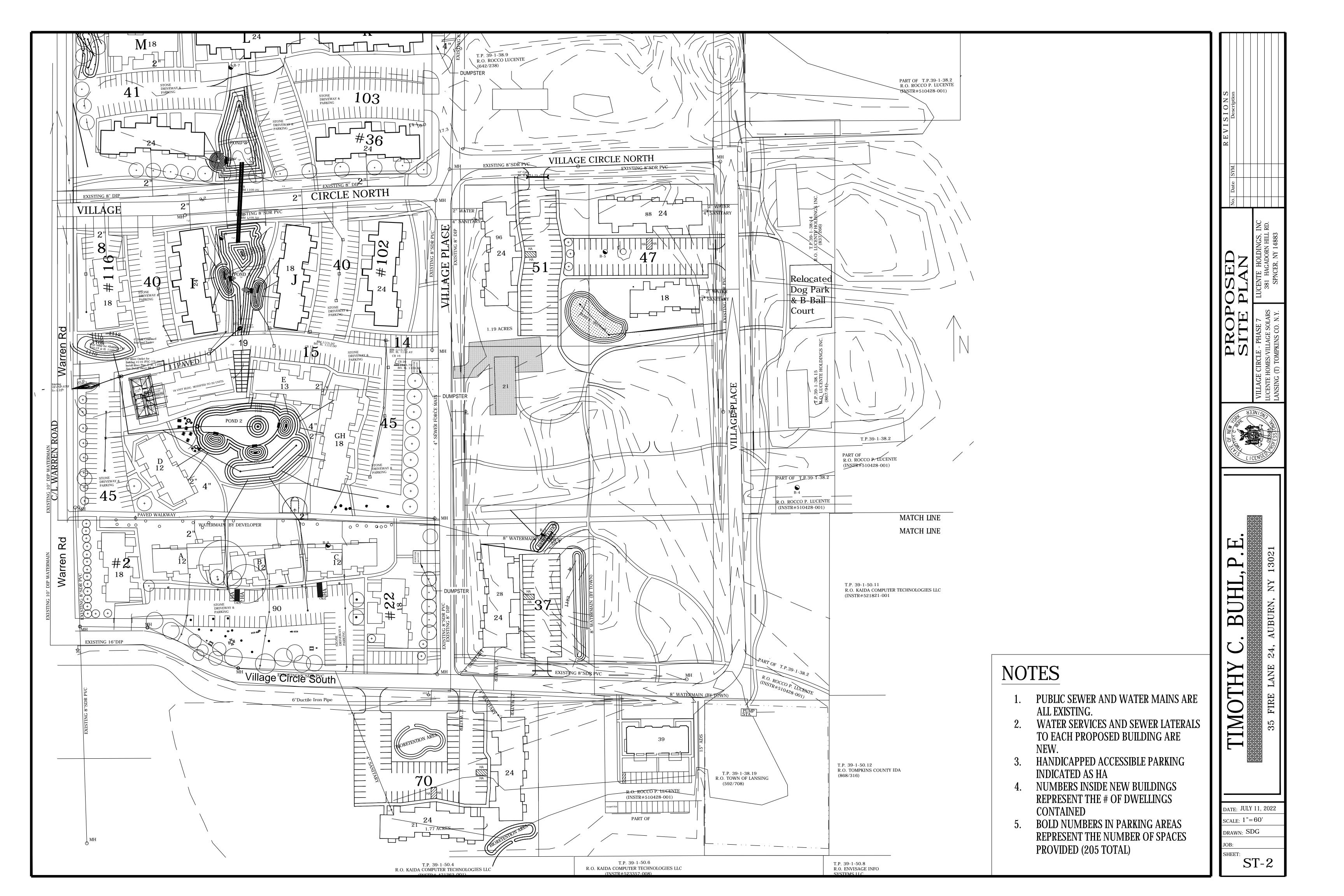
### COVER SHEET **EXISTING SITE PLAN** ST-1 ST-2 PROPOSED SITE PLAN ST-2B PROPOSED SITE PLAN - 30 SCALE ST-3 E&SC PLAN ST-4 E&SC DETAILS ST-5 **BIORETENTION AREA DETAILS** ST-6 POND 4 DETAILS ST-7 HYDROLOGIC & HYDRAULIC RUNOFF EXISTING ST-8 HYDROLOGIC & HYDRAULIC RUNOFF - PROP 1 ST-9 HYDROLOGIC & HYDRAULIC RUNOFF - PROP 2 ST-10 TYP BUILDING EXTERIOR LIGHTING ST-11 FITNESS TRAIL AND DUMPSTER LOCATIONS ST-12 PLANTING PLAN

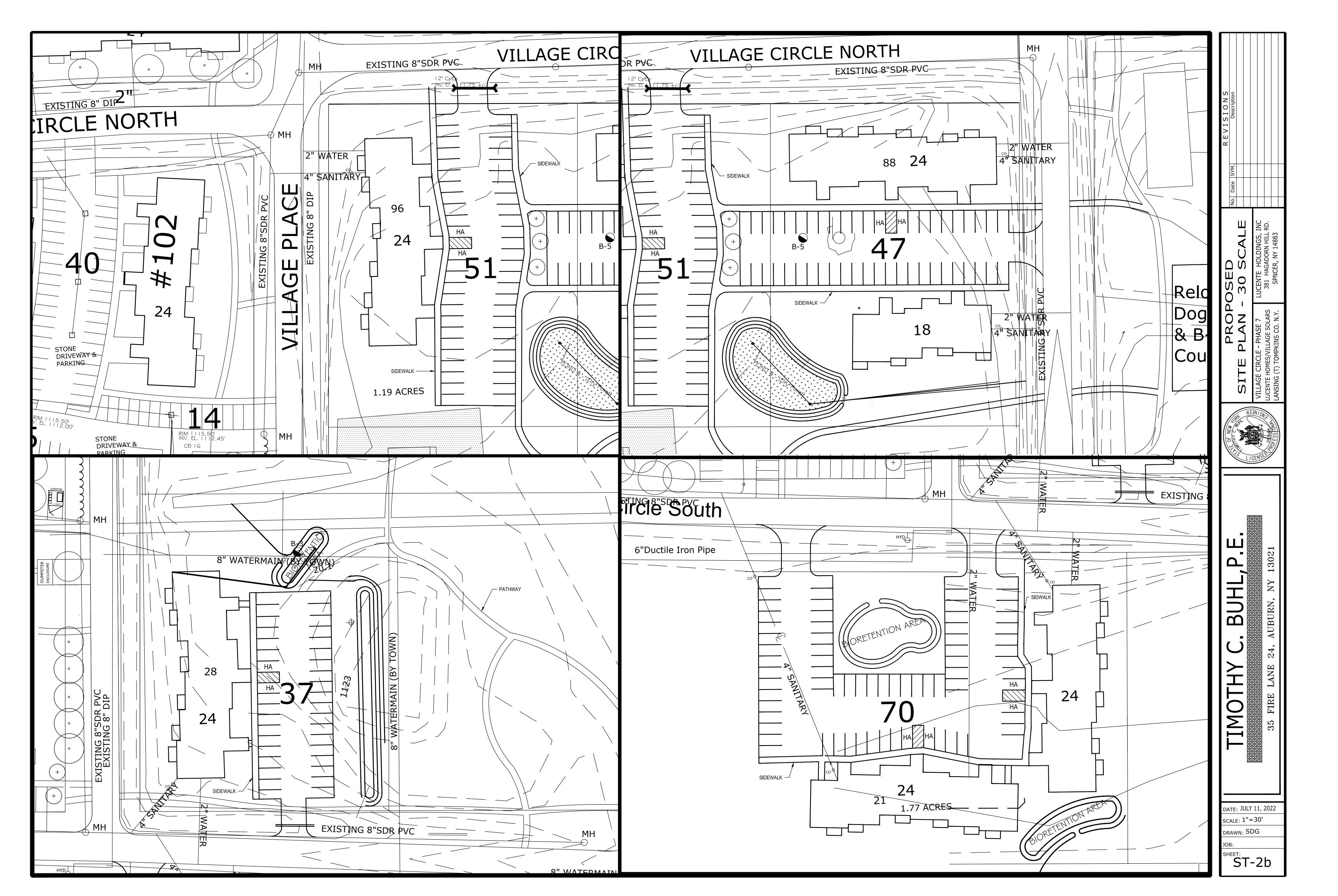
# PREPARED BY:

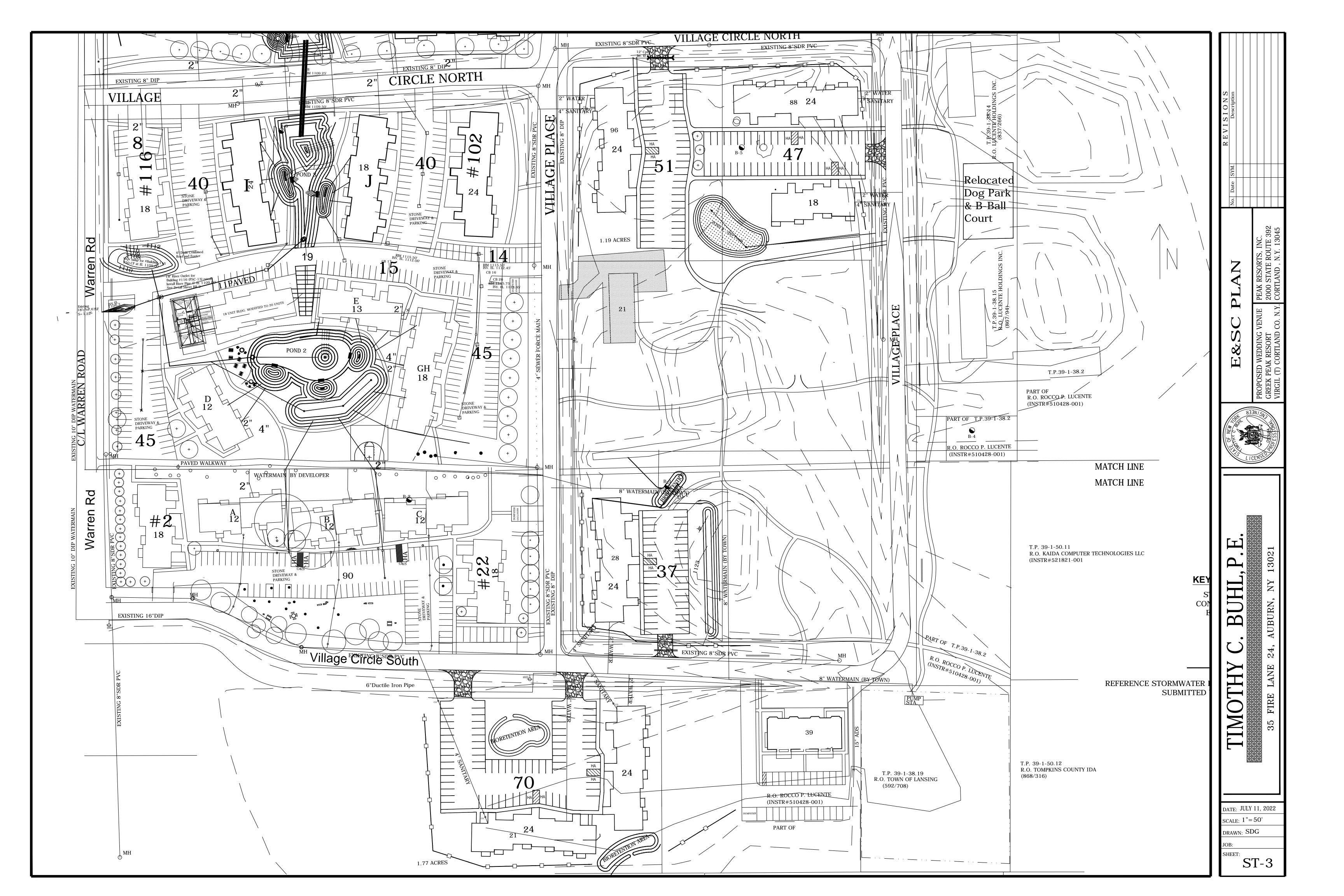
TIMOTHY C. BUHL P.E. 35 FIRE LANE 24 AUBURN, NY 13021











### GENERAL NOTES

NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDMIMENT CONTROL, NOVEMBER 2016

I. PHYSICALLY MARK LIMITS OF LAND DISTURBANCE ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE, SO THAT WORKERS CAN SEE THE AREAS TO BE PROTECTED.

2. DIVERT OFF-SITE RUNOFF FROM HIGHLY ERODIBLE SOILS AND STEEP SLOPES TO STABLE AREAS.

3. CLEAR ONLY WHAT IS REQUIRED FOR IMMEDIATE CONSTRUCTION ACTIVITY. LARGE PROJECTS SHOULD BE CLEARED AND GRADED AS CONSTRUCTION PROGRESSES. AREAS EXCEEDING TWO ACRES IN SIZE SHOULD NOT BE DISTURBED WITHOUT A SEQUENCING PLAN THAT REQUIRES PRACTICES TO BE INSTALLED AND THE SOIL STABILIZED, AS DISTURBANCE BEYOND THE TWO ACRES CONTINUES. MASS CLEARINGS AND GRADING OF ENTIRE SITE SHOULD BE AVOIDED.

4. RESTABILIZE DISTURBED AREAS AS SOON AS POSSIBLE AFTER CONSTRUCTION IS COMPLETED. ON SITES GREATER THAN TWO ACRES IN SIZE, WAITING UNTIL ALL DISTURBED AREAS ARE READY FOR SEEDING IS UNACCEPTABLE. FOURTEEN DAYS SHALL BE THE MAXIMUM EXPOSURE PERIOD. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. EXCEPT AS NOTED BELOW, ALL SITES SHALL BE SEEDED AND STABILIZED WITH EROSION CONTROL MATERIALS, SUCH AS STRAW MULCH, JUTE MESH, OR EXCELSIOR, INCLUDING AREAS WHERE CONSTRUCTION HAS BEEN SUSPENDED OR SECTIONS COMPLETED:

A. FOR ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS AND AREAS WITHIN 50 FT OF A BUILDING UNDER CONSTRUCTION, A PERIMETER SEDIMENT CONTROL SYSTEM CONSISTING, FOR EXAMPLE, SILT FENCING, SHALL BE INSTALLED AND MAINTAINED TO CONTAIN SOIL. EXPOSED DISTURBED AREAS ADJACENT TO A CONVEYANCE THAT PROVIDES RAPID OFF-SITE DISCHARGE OF SEDIMENT, SUCH AS A CUT SLOPE AT AN ENTRANCE, SHALL BE COVERED WITH PLASTIC OR, GEOTEXTILE FABRIC TO PREVENT SOIL LOSS UNTIL IT CAN BE STABILIZED. STABILIZED CONSTRUCTION ENTRANCES WILL BE MAINTAINED TO CONTROL VEHICLE TRACKING MATERIAL OFF-SITE.

B. ON THE CUT SIDE OF ROADS, DITCHES SHALL BE STABILIZED IMMEDIATELY WITH ROCK RIP-RAP OR OTHER NON-ERODIBLE LINERS (EG. ROLLED EROSION PRODUCTS), OR WHERE APPROPRIATE, VEGETATIVE MEASURES SUCH AS SOD.

C. PERMANENT SEEDING SHOULD OPTIMALLY BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM SEPTEMBER TO OCTOBER 15. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICABLE, AN APPROPRIATE TEMPORARY MULCH SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE WATERING. TEMPORARY SEEDING WITH RYE CAN BE UTILIZED THROUGH NOVEMBER.

D. ALL SLOPES STEEPER THAN 3:1 (H:V), OR 33.3%, AS WELL AS PERIMETER DIKES, SEDIMENT BASINS AND TRAPS, AND EMBANKMENTS SHALL, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH. OR OTHER APPROVED STABILIZATION MEASURES. AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM SHALL NOT BE DISTURBED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

E. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTIRBUTORY DRAINAGE AREAS. SIMILARLY, STABILIZATION SHALL BE ESTABLISHED PRIOR TO CONVERTING SEDIMENT TRAPS/BASINS INTO PERMANENT (POST-CONSTRUCTION) STORMWATER MANAGEMENT PRACTICES.

5. IF TEMPORARY WORK ROADS OR HAUL ROADS CROSS STREAM CHANNELS, ADEQUATE WATERWAY OPENINGS SHALL BE CONSTRUCTED USING SPANS, CULVERTS, WASHED ROCK BACKFILL, OR OTHER ACCEPTABLE, CLEAN METHODS THAT WILL ENSURE THAT ROAD CONSTRUCTION AND THEIR USE DO NOT RESULT IN TURBIDITY AND SEDIMENT DOWNSTREAM. ALL CROSSING ACTIVITIES AND APPURTENANCES ON STREAMS REGULATED BY ARTICLE 15 OF THE ENVIRONMENTAL CONSERVATION LAW SHALL BE IN COMPLIANCE WITH A PERMIT ISSUED PURSUANT TO ARTICLE 15 OF THE ECL.

6. MAKE SURE THAT ALL CONTRACTORS AND SUB-CONTRACTORS UNDERSTAND THE ESC PLAN AND SIGN THE CERTIFICATION STATEMENT REQUIRED BY NYSDEC GP.

7. DESIGNATE RESPONSIBLITY FOR THE ESC PLAN TO ONE INDIVIDUAL. THIS PERSON SHALL BE NAMED IN THE NOTICE OF INTENT.

8. AN ESC PLAN INSPECTION PROGRAM MEETING THE REQUIREMENTS OF THE NYSDEC GP. IS NECESSARY TO DETERMINE WHEN ESC MEASURES NEED MAINTENANCE OR REPAIR. PAY PARTICULAR ATTENTION TO INSPECTIONS REQUIRED AFTER RAINFALL. THE INSPECTION PROGRAM SHALL ALSO STATE THE COMPLETION OF IDENTIFIED REPAIR AND MAINTENANCE ITEMS.

9. IF CONSTRUCTION ACTIVITIES CONTINUE DURING WINTER, ACCESS POINTS SHOULD BE ENLARGED AND STABILIZED TO PROVIDE FOR SNOW STOCKPILING. IN ADDITION SNOW MANAGEMENT PLAN SHOULD BE PREPARED WITH ADEQUATE STORAGE AND CONTROL OF MELTWATER. A MINIMUM 25 FOOT BUFFER SHALL BE MAINTAINED FROM PERIMETER CONTROLS SUCH AS SILT FENCING. KEEP DRAINAGE STRUCTURES OPEN AND FREE OF SNOW AND ICE DAMS. INSPECTION AND MAINTENANCE ARE NECESSARY TO ENSURE THE FUNCTION OF THESE PRACTICES DURING RUNOFF EVENTS.



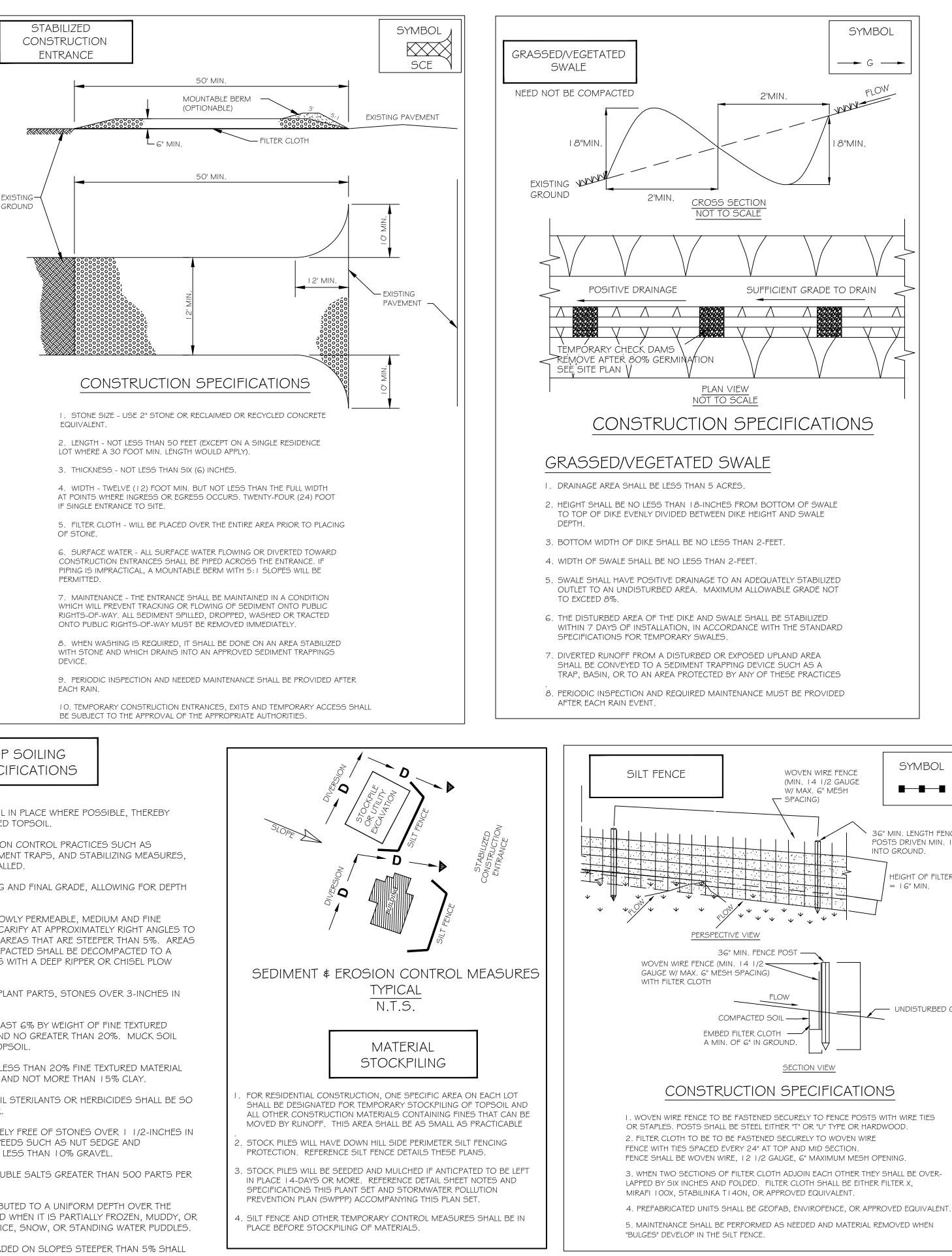
I. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, MILLION SHALL NOT BE USED. SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

2. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

3. FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS. SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

4. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

5. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.



TOP SOILING SPECIFICATIONS

I. PRESERVE EXISTING TOPSOIL IN PLACE WHERE POSSIBLE, THEREBY REDUCING THE NEED FOR ADDED TOPSOIL.

2. AS NEEDED, INSTALL EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, CHANNELS, SEDIMENT TRAPS, AND STABILIZING MEASURES, OR MAINTAIN IF ALREADY INSTALLED.

3. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.

4. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%. AREAS THAT HAVE BEEN OVERLY COMPACTED SHALL BE DECOMPACTED TO A MINIMUM DEPTH OF 12-INCHES WITH A DEEP RIPPER OR CHISEL PLOW PRIOR TO TOPSOILING.

5. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3-INCHES IN DIAMETER, AND OTHER LITTER.

6. TOPSOIL SHALL HAVE AT LEAST 6% BY WEIGHT OF FINE TEXTURED STABLE ORGANIC MATERIAL, AND NO GREATER THAN 20%. MUCK SOIL SHALL NOT BE CONSIDERED TOPSOIL.

7. TOPSOIL SHALL HAVE NOT LESS THAN 20% FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15% CLAY.

8. TOPSOIL TREATED WITH SOIL STERILANTS OR HERBICIDES SHALL BE SO IDENTIFIED TO THE PURCHASER.

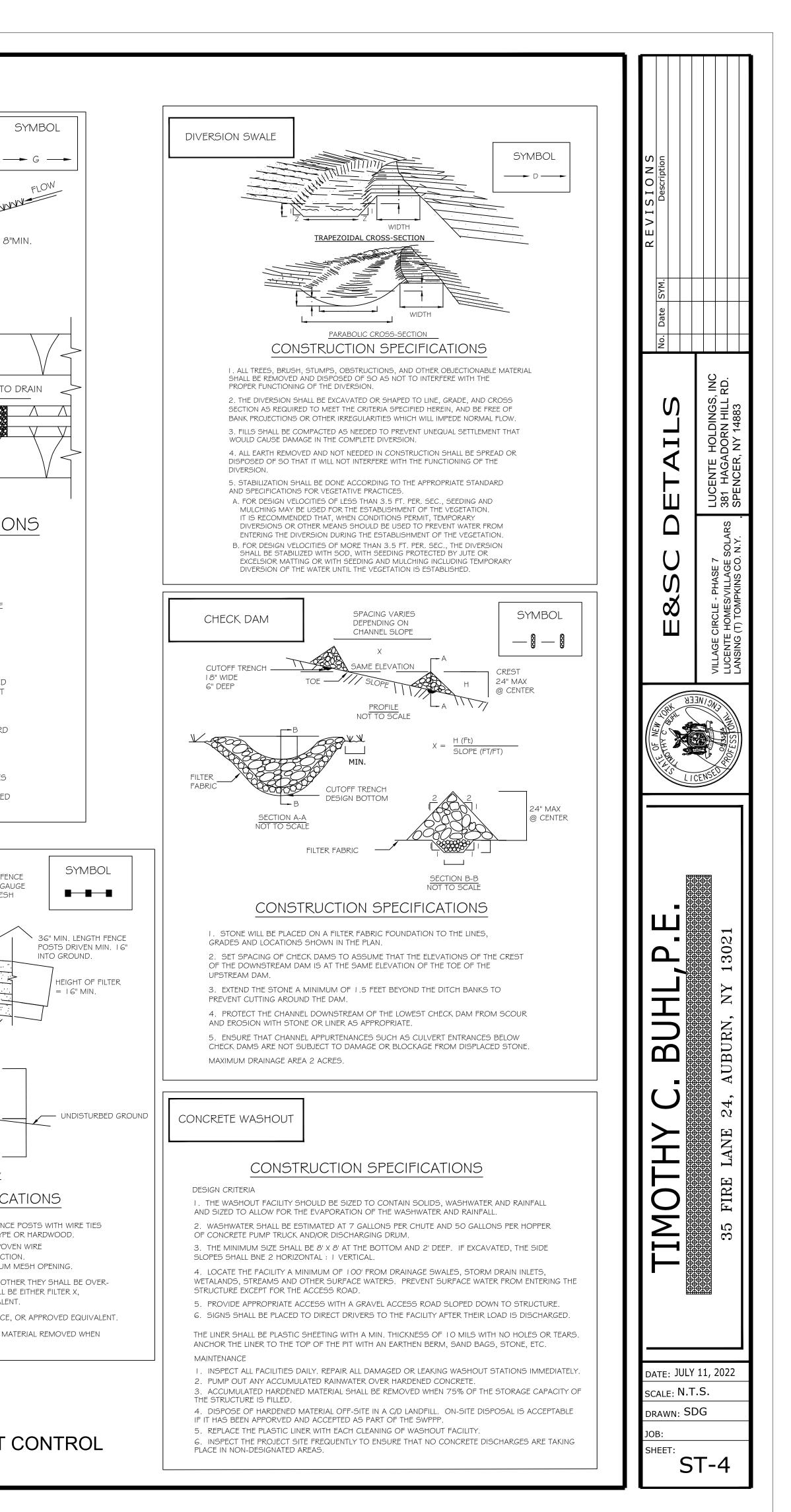
9. TOPSOIL SHALL BE RELATIVELY FREE OF STONES OVER 1 1/2-INCHES IN DIAMETER, TRASH, NOXIOUS WEEDS SUCH AS NUT SEDGE AND QUACKGRASS, AND WILL HAVE LESS THAN 10% GRAVEL.

IO. TOPSOIL CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER

II. TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTIALLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER PUDDLES.

I 2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED, AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

EXCERPTS FROM NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL NOVEMBER 2016



SYMBOL

HEIGHT OF FILTER

= 16" MIN.

INTO GROUND.

Bioretention Suga			
USDA Zone 5A			
SHRUBS	$\downarrow \qquad \qquad$		
Witch Hazel Hamemelis viginiana	Cınnamon Fern Osmunda cınnamomea		
Winterberry Ilex verticillata	Cutleaf Coneflower Rudbeckıa lacınıata		
Arrowwood Viburnum dentatum	Woolgrass Scirpus cyperinus		
Brook-sıde Alder Alnus serrulata	New England Aster Aster novae-angliae		
Red-Osıer Dogwood Cornus stolonıfera	Fox Sedge Carex vulpinoidea		
Sweet Pepperbush Clethra alrıfolia	Spotted Joe-Pye Weed Eupatorium maculatum		
	Switch Grass Panicum virgatum		
	Great Blue Lobelia Lobelia siphatica		
	Wild Bergamot Mondarda fistulosa		
	Red Milkweed Ascelpias incarnata		

### NOTES: BASIN EMBANKMENT CONSTRUCTION:

1: EMBANKMENT MATERIAL SPECIFICATIONS: EMBANKMENT CORE AND CUT OFF TRENCH MATERIAL SHALL BE MATERIAL CONFORMING TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL WITH AT LEAST 30% PASSING #200 SIEVE. CORE AND CUT OFF TRENCH MATERIAL SHALL BE STOCKPILED SEPARATELY FROM OUTER SHELL MATERIAL. MATERIAL SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6-INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. STOCKPILED MATERIAL SHALL BE COVERED AND PROTECTED FROM WATER, TRAFFIC AND OTHER DELETERIOUS SUBSTANCES OR PROCESSES.

2: EMBANKMENT COMPACTION: EMBANKMENT FILL SHALL BE PLACED IN 12-INCH LIFTS MAXIMUM AND COMPACTED. THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF OPTIMUM. ALL COMPACTION TO BE DETERMINED BY AASHTO METHOD 99 STANDARD PROCTOR.

3: EMBANKMENT CORE DIMENSIONS: THE CORE SHALL BE PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE TOP WIDTH OF THE CORE SHALL BE A MINIMUM OF FOUR FEET. THE HEIGHT SHALL EXTEND UP TO AT LEAST THE 10 YEAR WATER ELEVATION OR AS SHOWN ON THE PLANS. THE SIDE SLOPES SHALL BE 1 TO 1 OR FLATTER. THE CORE SHALL BE COMPACTED WITH CONSTRUCTION COMPACTION EQUIPMENT, ROLLERS, OR TAMPS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY. THE CORE SHALL BE CONSTRUCTED/PLACED CONCURRENTLY WITH THE OUTER SHELL OF THE EMBANKMENT.

4: EMBANKMENT SURFACE: A 4-INCH LAYER OF TOPSOIL SHALL BE PLACED ON ENTIRE SURFACE AREA OF THE EMBANKMENT. GOOD GRASSED COVER SHALL BE ESTABLISHED BY SEEDING, LIMING, FERTILIZING, MULCHING, ETC. IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. EMBANKMENT SHALL BE KEPT FREE OF WOODY PLANT GROWTH AND TREES.

STONE LINING FOR STORMWATER CONVEYANCE SECTIONS						
SEE STONE SIZE <sup>1</sup> PERCENT OF TOTAL MANNING'S ROUGHN NOTES STONE SIZE <sup>1</sup> PERCENT OF TOTAL MANNING'S ROUGHN BY WEIGHT COEFF "N"		SEE NOTES	V MAX <sup>*2</sup> 2' DEPTH	STONE FILLING ITEM	MIN THICKNESS (THK)	
2,3,4 SMALLER THAN 8" 90–100 0.0314 LARGER THAN 3" 50–100 SMALLER THAN NO. 10 SIEVE 0–10	LARG	2,3,4	11.0 FPS	FINE	9"	
2,3,4 LIGHTER THAN 100 LBS 90–100 0.0352 LARGER THAN 6" 50–100 SMALLER THAN 1/2" 0–10	LARG	2,3,4	13.0 FPS	LIGHT	15"	
2,3,4 HEAVIER THAN 100 LBS 50–100 0.0395 SMALLER THAN 4" 0–10		2,3,4	15.5 FPS	MEDIUM	18"	
2,3,4 HEAVIER THAN 100 LBS 50–100 0.0423 SMALLER THAN 6" 0–10		2,3,4	17.0 FPS	HEAVY	30"	
2,3,4 HEAVIER THAN 100 LBS 50-100	SMAL HEAN SMAL	2,3,4	17.0 FPS	HEAVY	30"	

\*' SOURCE: HYDRAULIC ENGINEERING CIRCULAR NO. 15 DESIGN OF STABLE CHANNELS WITH FLEXIBLE LININGS \*<sup>2</sup> SOURCE: SOILS DESIGN PROCEDURE SDP2, BANK AND CHANNEL PROTECTIVE LINING DESIGN PROCEDURES NOTES:

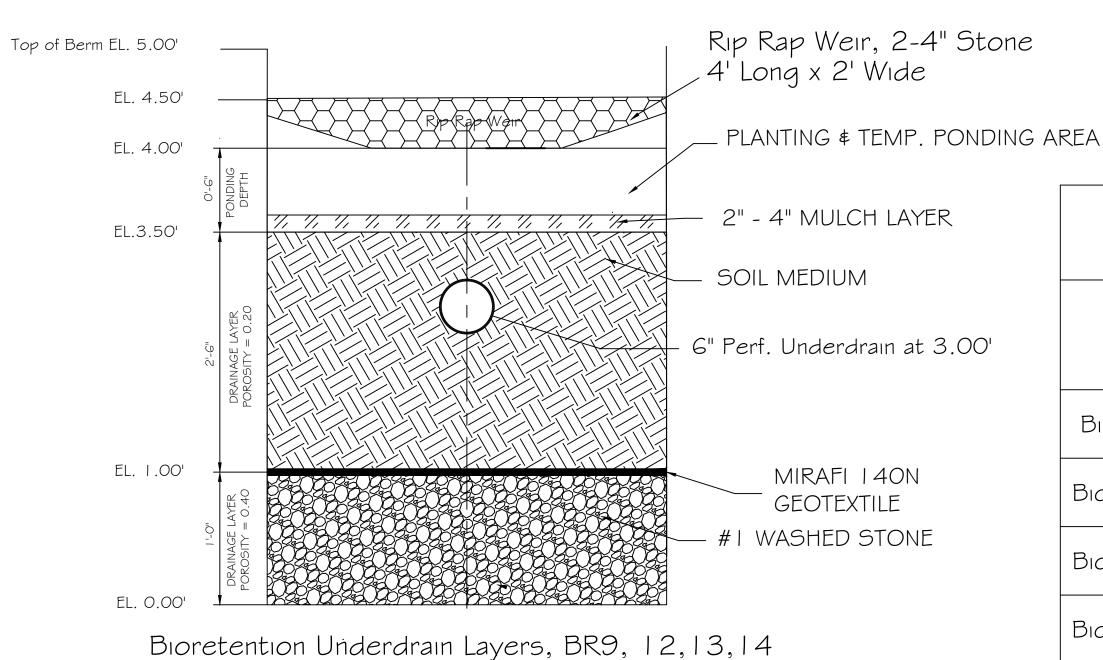
1. STONE SIZES, OTHER THAN WEIGHTS, REFER TO THE AVERAGE OF THE MAXIMUM AND MINIMUM DIMENSIONS OF A STONE PARTICLE AS ESTIMATED BY THE ENGINEER. 2. MATERIALS SHALL CONTAIN LESS THAN 20 PERCENT OF STONES WITH A RATIO OF MAXIMUM TO MINIMUM

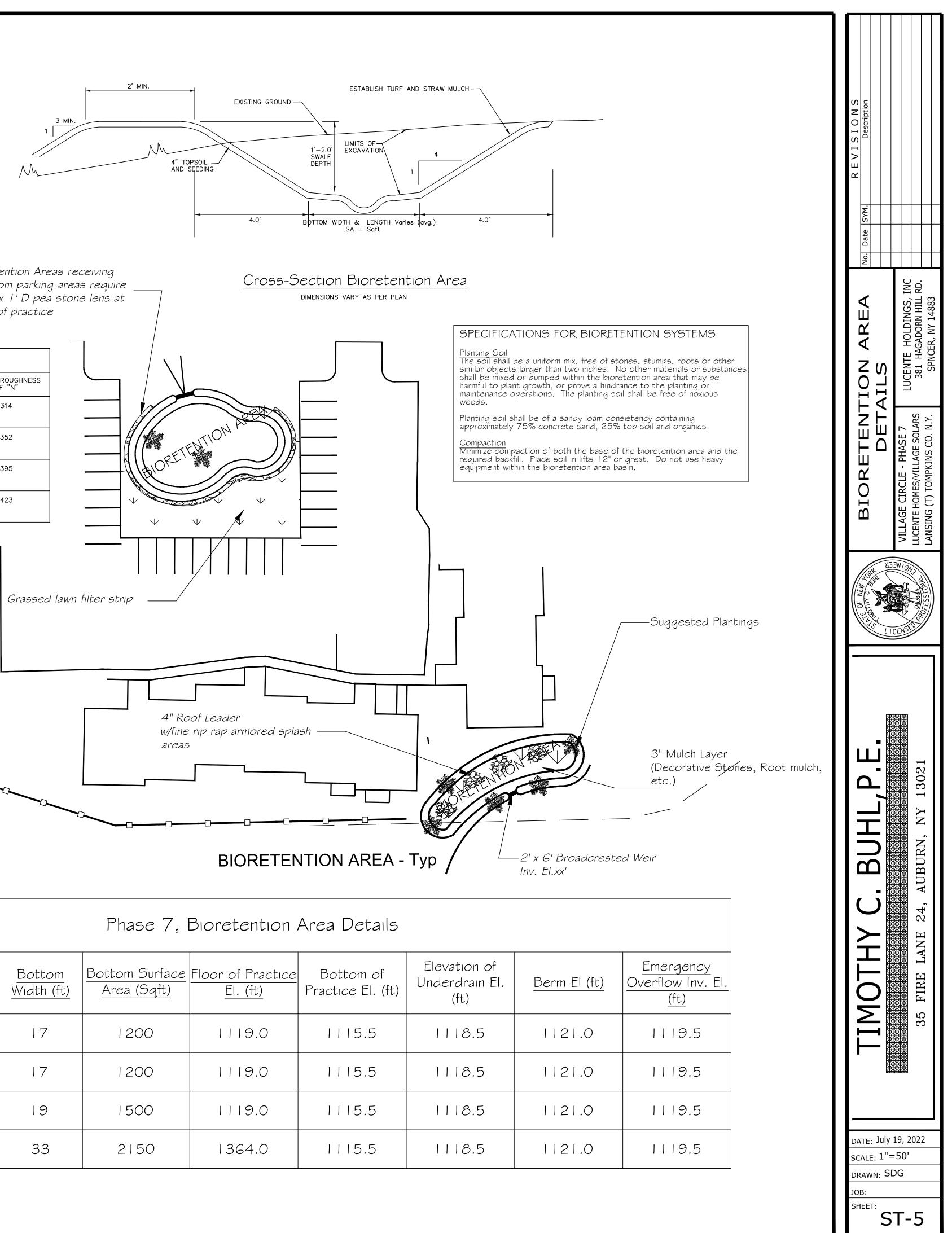
DIMENSIONS GREATER THAN THREE. 3. AIR-COOLED BLAST FURNACE SLAG, COBBLES OR GRAVEL HAVING AT LEAST ONE FRACTURED FACE PER ACCEPTABLE SUBSTITUTES FOR STONE UNDER THESE ITEMS, PROVIDED THAT SOUNDNESS AND GRADATION

4. MATERIALS SHALL CONTAIN A SUFFICIENT AMOUNT OF STONES SMALLER THAN THE AVERAGE STONE SIZE TO FILL THE SPACES BETWEEN THE STONES.

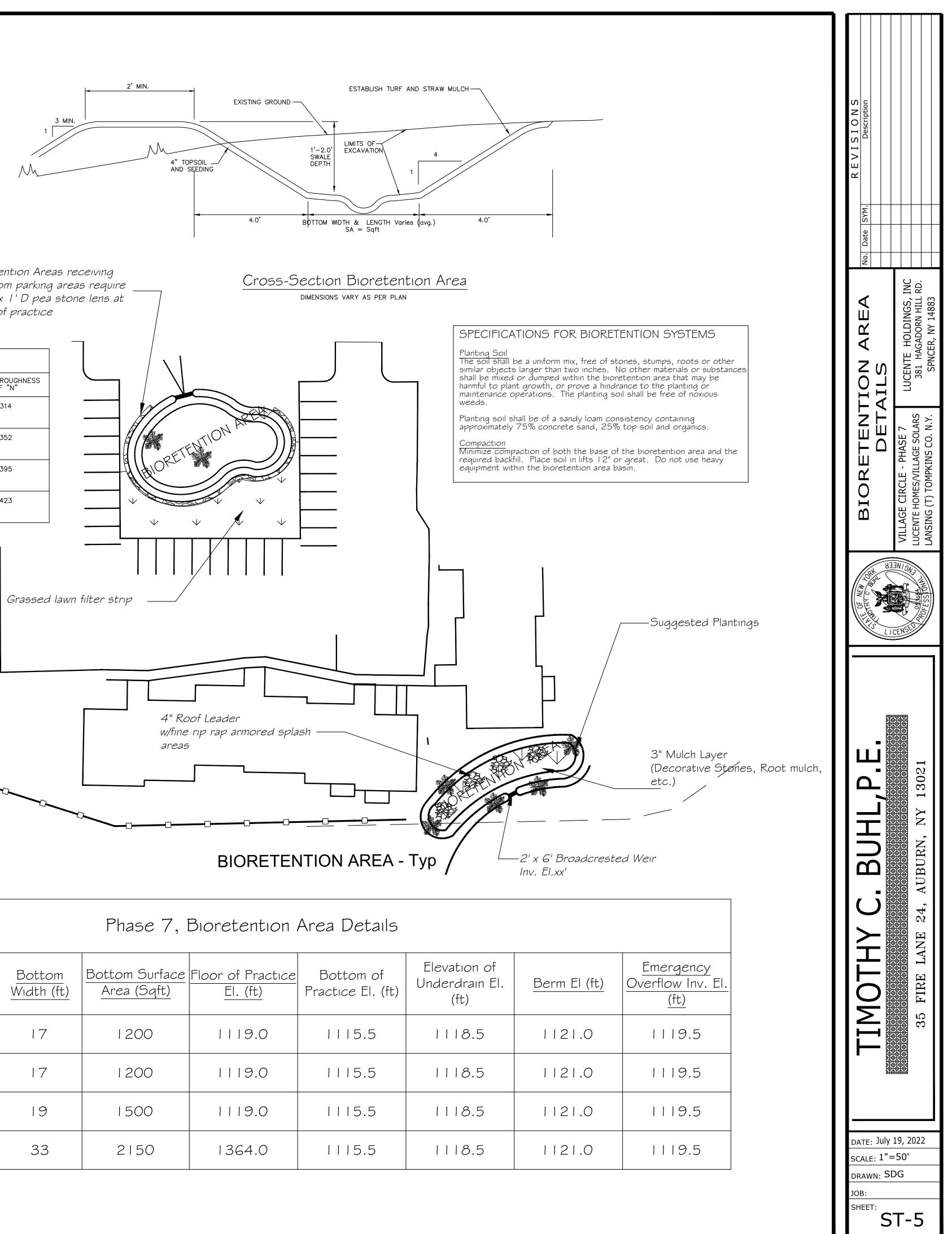
### TYPICAL OUTLET, OVERFLOW, AND CHANNEL DETAILS **REFERENCE THE BASIN PLAN & SECTION SHEETS FOR** ELEVATIONS, DIMENSIONS, LINES & GRADES

REQUIREMENTS ARE MET.

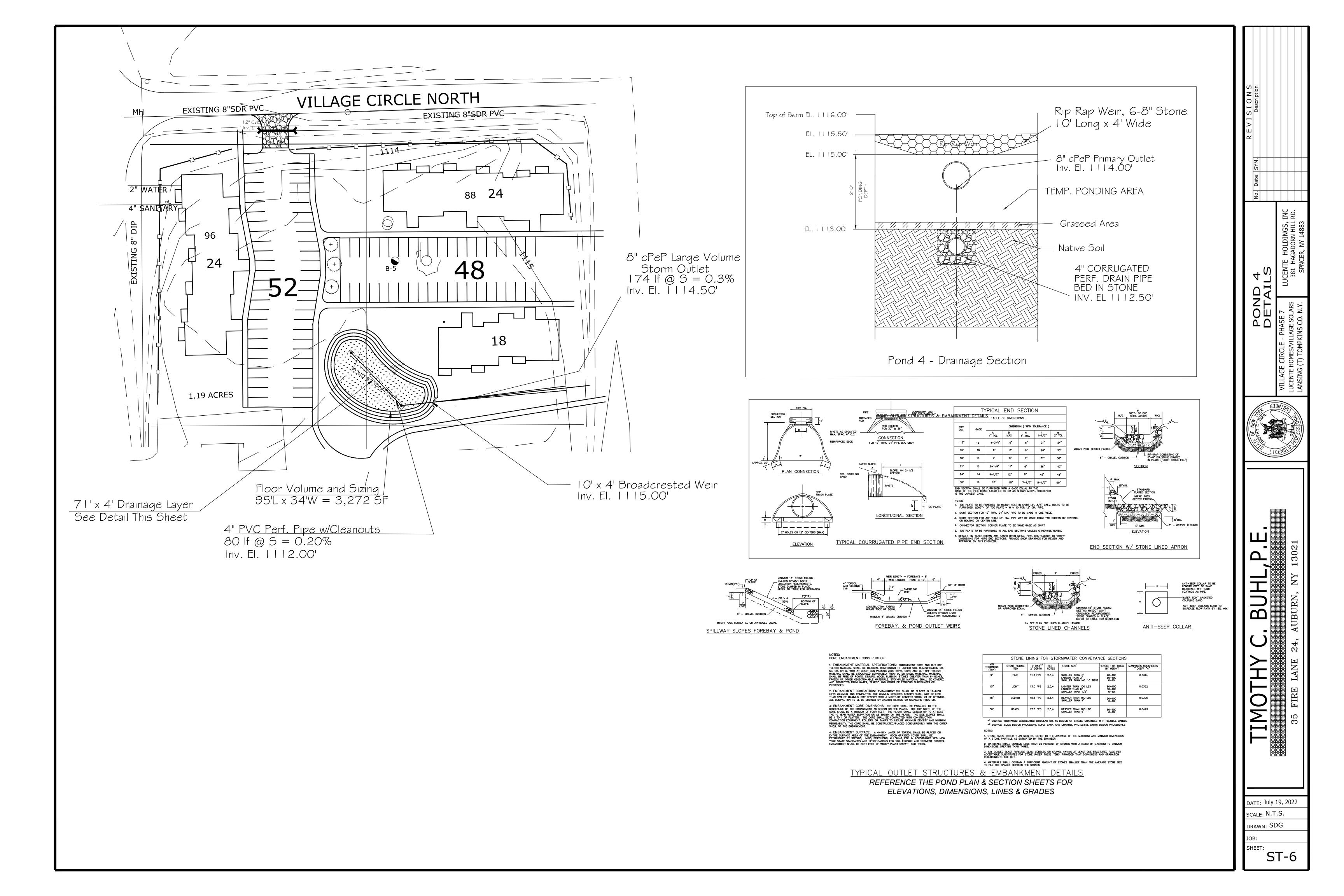




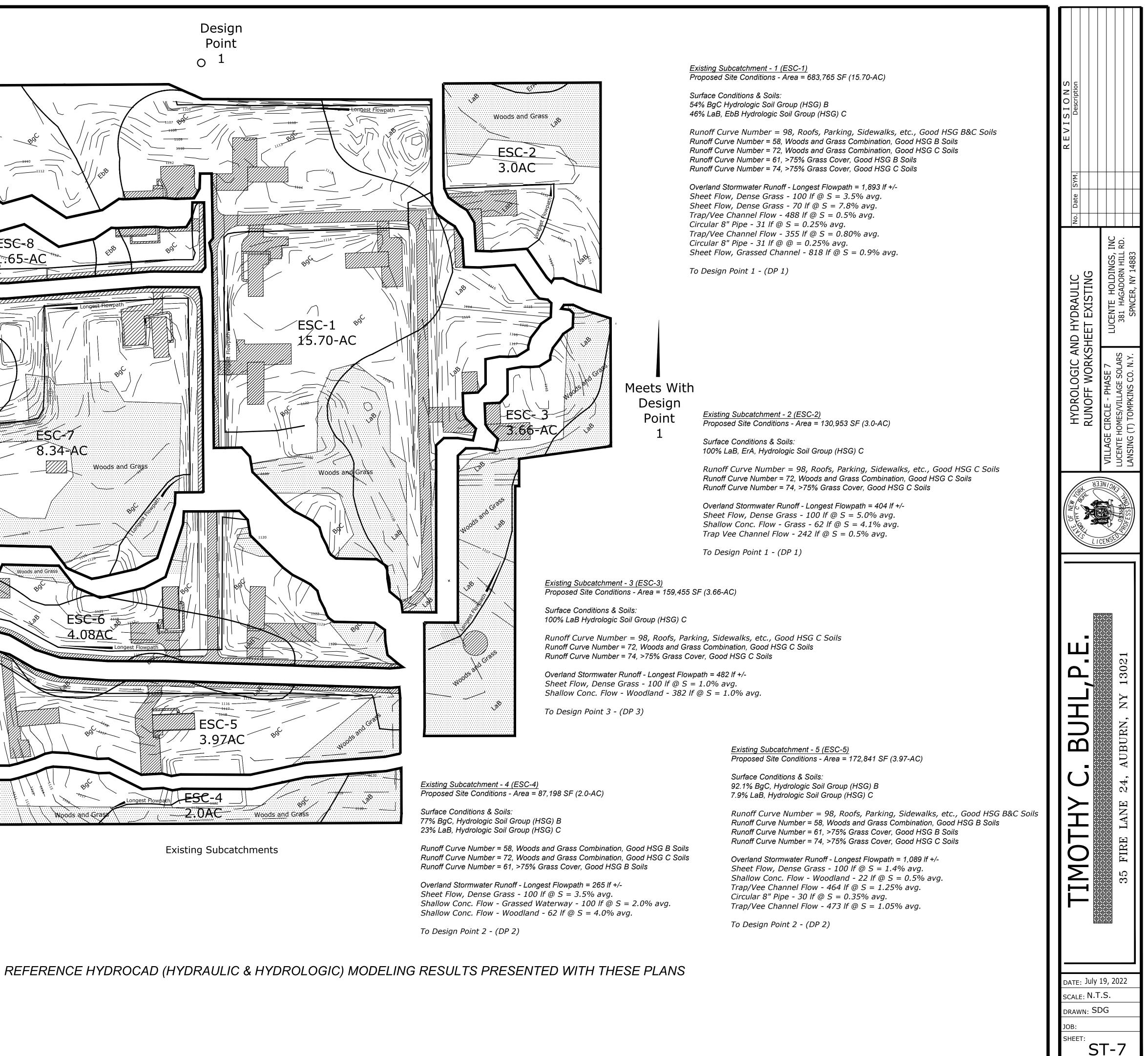
Bioretention Areas receiving flow from parking areas require a 2'W x 1' D pea stone lens at edge of practice



I	Location	Bottom Length (ft)	Bottom Width (ft)	<u>Bottom Surface</u> <u>Area (Sqft)</u>	<u>Floor of Practice</u> <u>El. (ft)</u>	Bottom of Practice El. (ft)
	Bioretention Area 9	70	17	1200	1119.0	1115.5
	Bioretention Area 12	70	17	1200	1119.0	1115.5
	Bioretention Area 13	80	19	1500	1119.0	1115.5
	Bioretention Area 14	65	33	2150	1364.0	1115.5



EXISTING FLOW CONDITIONS AT DESIGN POINT - 1 (REACH DP-1 IN MODEL) STORM EVENT PEAK FLOW (CFS) TOTAL VOLUME (CF) 1 YR, (2.3") 4.80 30,187 10 YR, (3.9") 20.87 103,368 100 YŔ, (5.5″) 41.39 196,673 PROPOSED FLOW CONDITIONS AT DESIGN POINT - 1 (REACH DP-1 IN MODEL) STORM EVENTPEAK FLOW (CFS)TOTAL VOLUME (CF)1 YR, (2.3")3.0218,121 12.93 83,156 10 YR, (3.9") 36.20 100 YR, (5.Ś") 176,940 EXISTING FLOW CONDITIONS AT DESIGN POINT - 2 (REACH DP-2 IN MODEL) STORM EVENT PEAK FLOW (CFS) TOTAL VOLUME (CF) 1 YR, (2.3") 3.49 17,380 18.69 67,431 10 YR, (3.9") 100 YR, (5.5") 39.35 134,470 PROPOSED FLOW CONDITIONS AT DESIGN POINT - 2 (REACH DP-2 IN MODEL) ESC-8 STORM EVENTPEAK FLOW (CFS)TOTAL VOLUME (CF)1 YR, (2.3")4.7620,604 1 YR, (2.3") -65-AC 10 YR, (3.9") 18.09 73,573 100 YR, (5.5") 38.69 158,428 Design Point 2 <sub>0</sub> , ESC-7 8.34-AC Existing Subcatchment - 7 (ESC-7) Proposed Site Conditions - Area = 363,256 SF (8.34-AC) Surface Conditions & Soils: 86.2% BgC Hydrologic Soil Group (HSG) B Woods and Gra 13.8% LaB Hydrologic Soil Group (HSG) C Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils Runoff Curve Number = 58. Woods and Grass Combination. Good HSG B Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils Overland Stormwater Runoff - Longest Flowpath = 1,494 If +/-Sheet Flow, Dense Grass - 88 If @ S = 6.0% avg. Sheet Flow, Woods - 12 lf @ S = 5.5% avg.Shallow Conc. Flow - Woodland - 195 If @S = 3.5% avg. Trap/Vee Channel Flow - 445 If @ S = 1.0% avg. Circular 8" Pipe - 30 If @ S = 0.50% avg. Trap/Vee Channel Flow - 724 If @ S = 1.50% avg. To Design Point 2 - (DP 2) Existing Subcatchment - 6 (ESC-6) Proposed Site Conditions - Area = 177,738 SF (4.08-AC) Woods and Grase Surface Conditions & Soils: 42% BgC Hydrologic Soil Group (HSG) B 58% LaB Hydrologic Soil Group (HSG) C Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils Runoff Curve Number = 58, Woods and Grass Combination, Good HSG B Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils Overland Stormwater Runoff - Longest Flowpath = 1010 If +/-Sheet Flow, Dense Grass - 56 If @S = 3.0% avg. Trap/Vee Channel Flow - 292 If @ S = 0.5% avg. Circular 8" Pipe - 31 If @ S = 0.25% avg. Trap/Vee Channel Flow - 631 If @ S = 0.5% avg. To Design Point 2 - (DP 2)



Proposed Subcatchment - 13 (PSC-13) Proposed Site Conditions - Area = 19,618 SF (0.45-AC)

Surface Conditions & Soils: 100% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 100 If +/-Sheet Flow, Paved - 100 lf @ S = 0.8% avg.

To Design Point 2 - (DP 2)

Design Point 2 <sub>O</sub>



<u>Proposed Subcatchment - 3b (PSC-3b)</u> Proposed Site Conditions - Area = 233,549 SF (5.36-AC)

Surface Conditions & Soils: 90% BgC Hydrologic Soil Group (HSG) B 10% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 316 If +/-Sheet Flow, Paved - 33 If @S = 1.0% avg. Circular Pipe, 10'' - 216 If @ S = 0.3% avg.

To Design Point 2 - (DP 2)

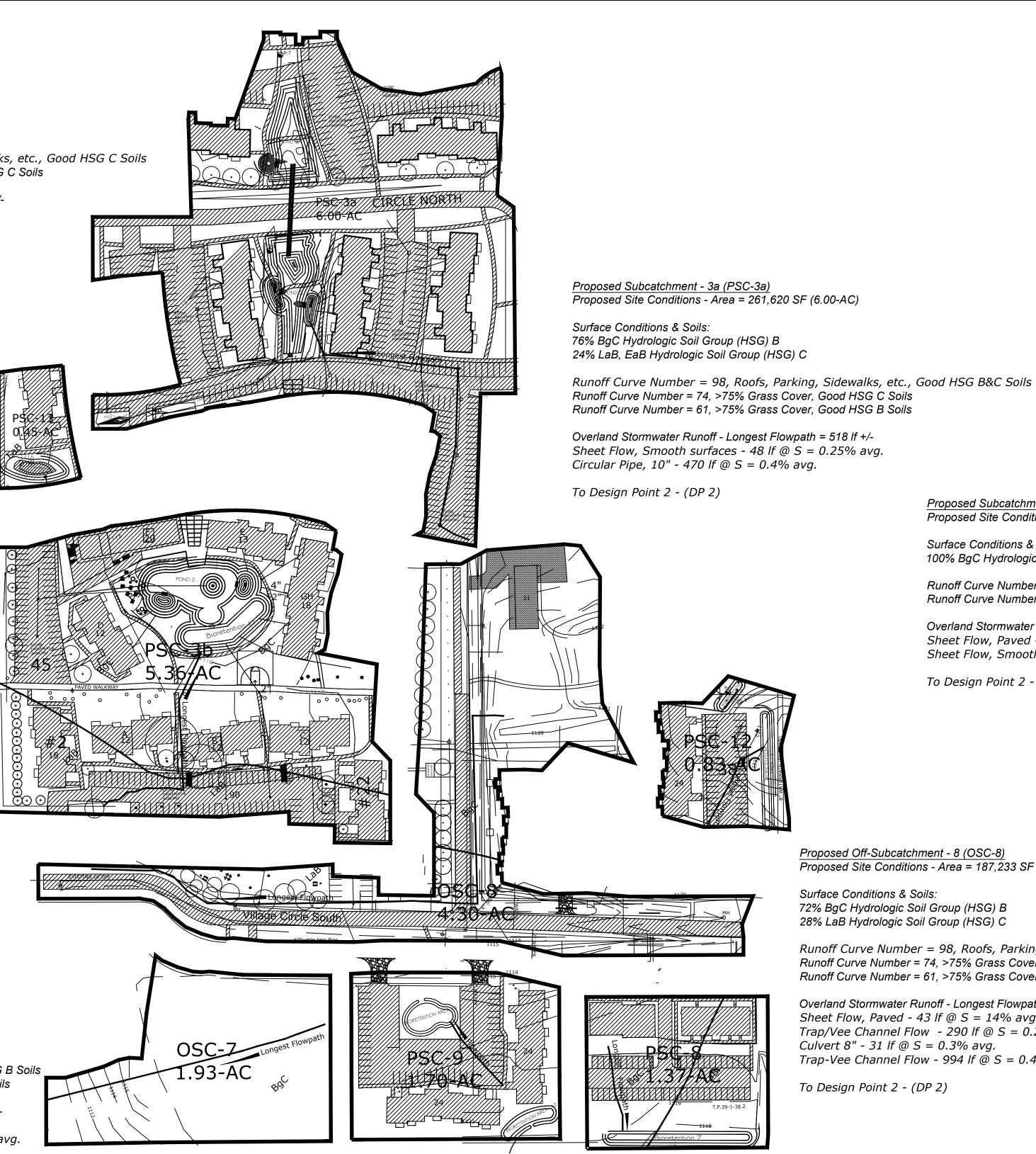
Proposed Off-Site Subcatchment - 7 (OSC-7) Proposed Site Conditions - Area = 84,245 SF (1.93-AC)

Surface Conditions & Soils: 100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils Runoff Curve Number = 58, Woods/Grass Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 426 If +/-Sheet Flow, Dense Grass - 100 If @ S = 4.0% avg. Shallow Conc. Flow, Woodland - 326 If @ S = 0.5% avg.

To Design Point 2 - (DP 2)



Proposed Subcatchment - 9 (PSC-9) Proposed Site Conditions - Area = 74,285 SF (1.70-AC)

Surface Conditions & Soils: 100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 98, Paved, Rooftops, etc. Good HSG B Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath =123 If +/-Sheet Flow, Paved - 60 If @ S = 0.4% avg. Sheet Flow, Paved - 63 If @ S = 2.4% avg.

To Design Point 2 - (DP 2)

Proposed Subcatchment - 8 (PSC-8) Proposed Site Conditions - Area = 59,614 SF (1.37-AC)

Surface Conditions & Soils: 56% BgC Hydrologic Soil Group (HSG) B 44% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 128 If +/-Sheet Flow, Dense Grass - 28 If @ S = 0.5% avg. Sheet Flow, Paved - 72 If @S = 1.0% avg. Shallow Concentrated Flow, Grassed Waterway - 28 If @ S = 1.0% avg.

To Design Point 2 - (DP 2)

REFERENCE HYDROCAD (HYDRAULIC & HYDROLOGIC) MODELING RESULTS PRESENTED WITH THESE PLANS

Proposed Subcatchment - 12 (PSC-12) Proposed Site Conditions - Area = 36,016-SF (0.83-AC)

Surface Conditions & Soils: 100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 98, Paved, Rooftops, etc. Good HSG B Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath =144 If +/-Sheet Flow, Paved - 100 If @ S = 0.4% avg. Sheet Flow, Smooth Surfaces - 44 If @S = 2.4% avg.

To Design Point 2 - (DP 2)

Proposed Off-Subcatchment - 8 (OSC-8) Proposed Site Conditions - Area = 187,233 SF (4.30-AC)

72% BgC Hydrologic Soil Group (HSG) B 28% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 1,358 lf +/-Sheet Flow, Paved - 43 If @ S = 14% avg. Trap/Vee Channel Flow -290 If @ S = 0.25% avg. Culvert 8" - 31 If @ S = 0.3% avg. Trap-Vee Channel Flow - 994 If @S = 0.4% avg.

To Design Point 2 - (DP 2)

No. Date SYM. Description	
HYDROLOGIC AND HYDRAULIC RUNOFF WORKSHEET - PROPOSED 1	VILLAGE CIRCLE - PHASE 7LUCENTE HOLDINGS, INCLUCENTE HOMES/VILLAGE SOLARS381 HAGADORN HILL RD.LUCENTE HOMES/VILLAGE SOLARS381 HAGADORN HILL RD.
P. E.	21
TIMOTHY C. BUHL,	35 FIRE LANE 24, AUBURN, NY 13021

Proposed Subcatchment - 2 (PSC-2) Proposed Site Conditions - Area = 41,888 SF (0.96-AC)

Surface Conditions & Soils: 100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 160 If +/-Sheet Flow, Paved - 100 If @ S = 3.5% avg. Shallow Conc. Flow, Paved - 8 If @S = 3.5% avg. Shallow Conc. Flow, Grassed Waterway - 52 If @ S = 3.8% avg.

To Design Point 1 - (DP 1)

### Proposed Subcatchment - 1 (PSC-1) Proposed Site Conditions - Area = 40,204 SF (0.92-AC)

Surface Conditions & Soils: 100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B Soils Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 146 If +/-Sheet Flow, Paved - 100 If @S = 2.0% avg. Shallow Conc. Flow, Paved - 24 If @ S = 2.0% avg. Shallow Conc. Flow, Grassed Waterway - 22 If @ S = 2.0% avg.

To Design Point 1 - (DP 1)

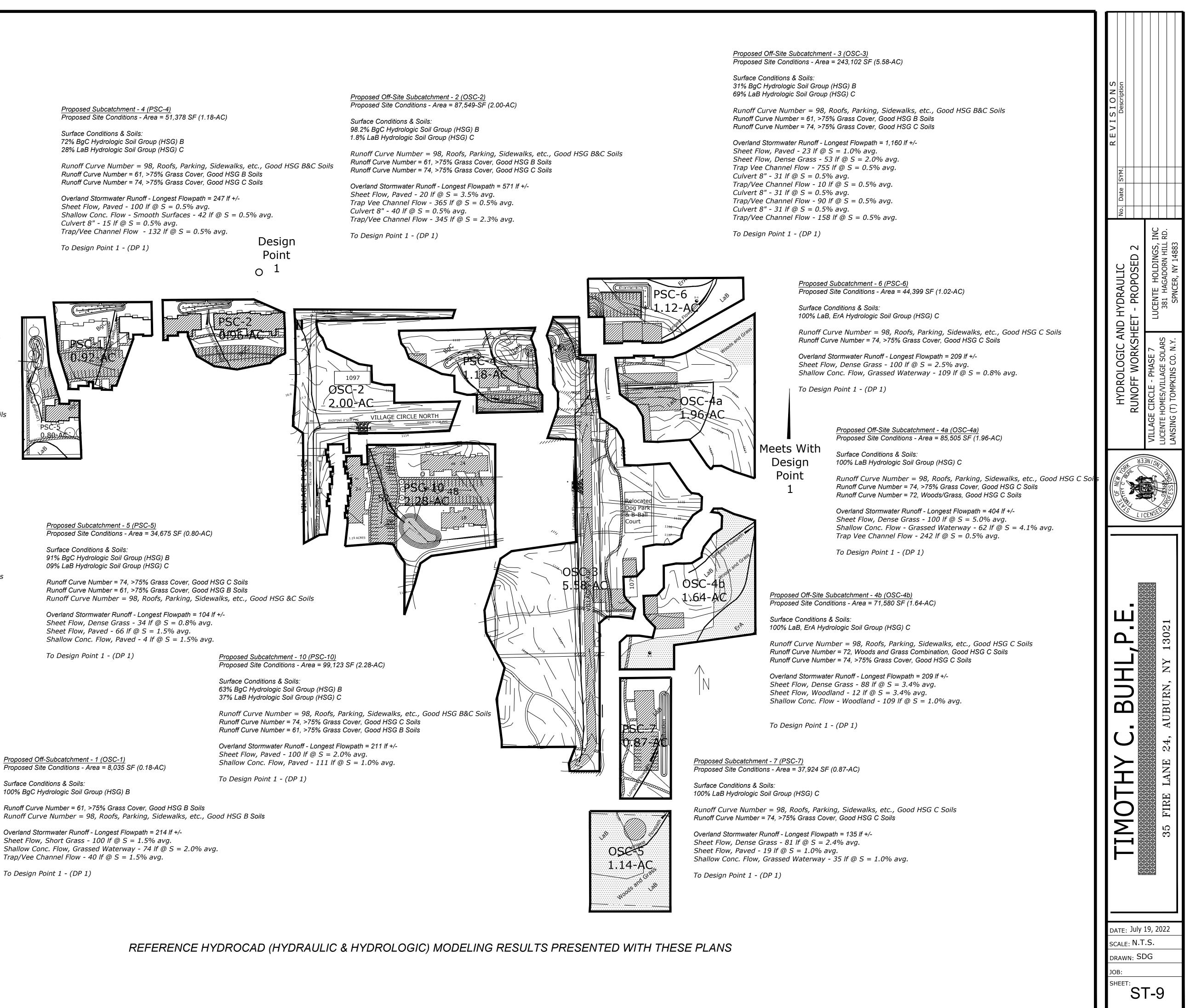
### Proposed Off-Site Subcatchment - 5 (OSC-5) Proposed Site Conditions - Area = 49.832 SF (1.14-AC)

Surface Conditions & Soils: 100% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils Runoff Curve Number = 72, Woods and Grass Combination, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 178 If +/-Sheet Flow, Woods - 100 If @ S = 1.0% avg. Shallow Concentrated Flow, Woodland - 78 If @ S = 1.0% avg.

To Design Point 1 - (DP 1)



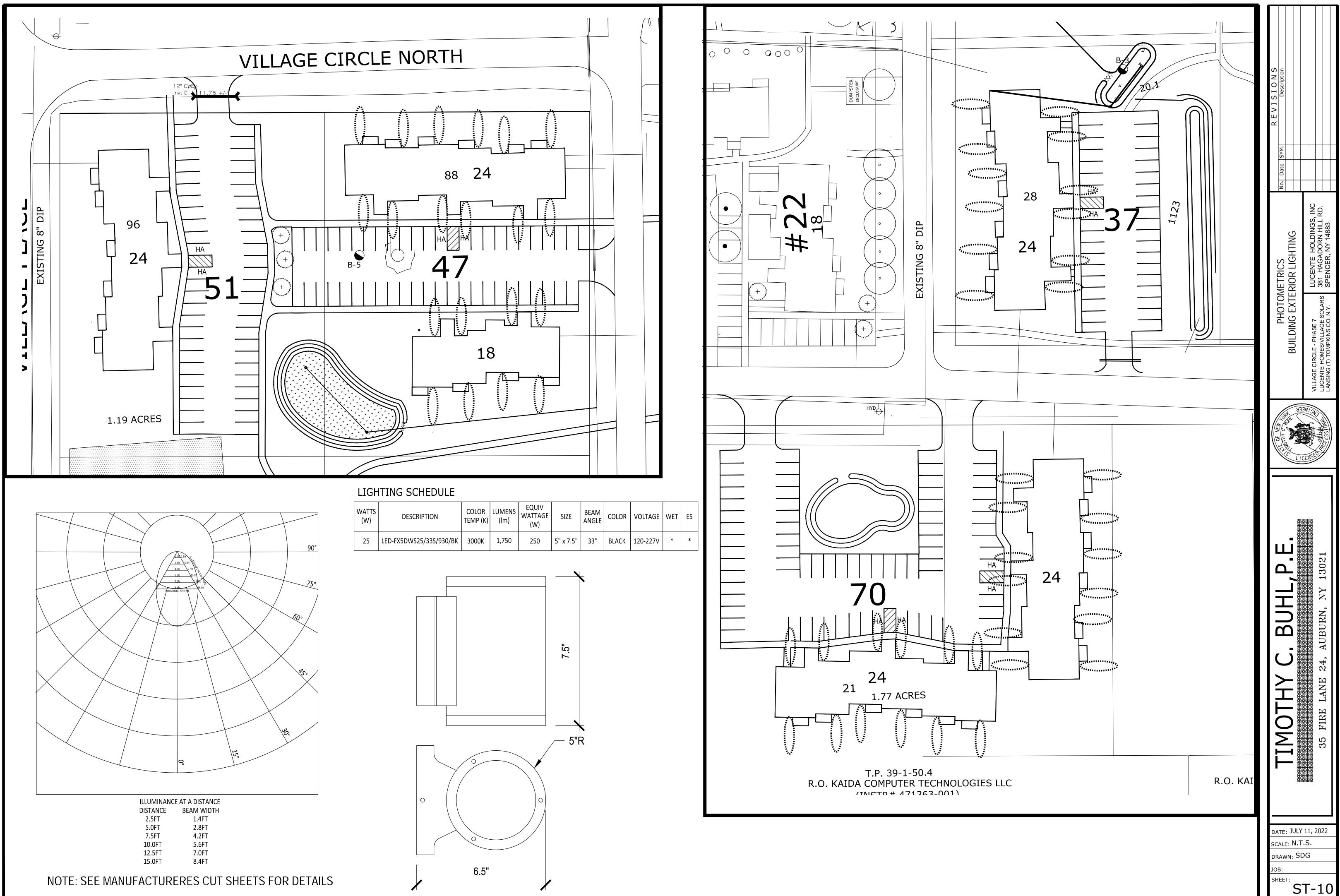
Proposed Site Conditions - Area = 8,035 SF (0.18-AC)

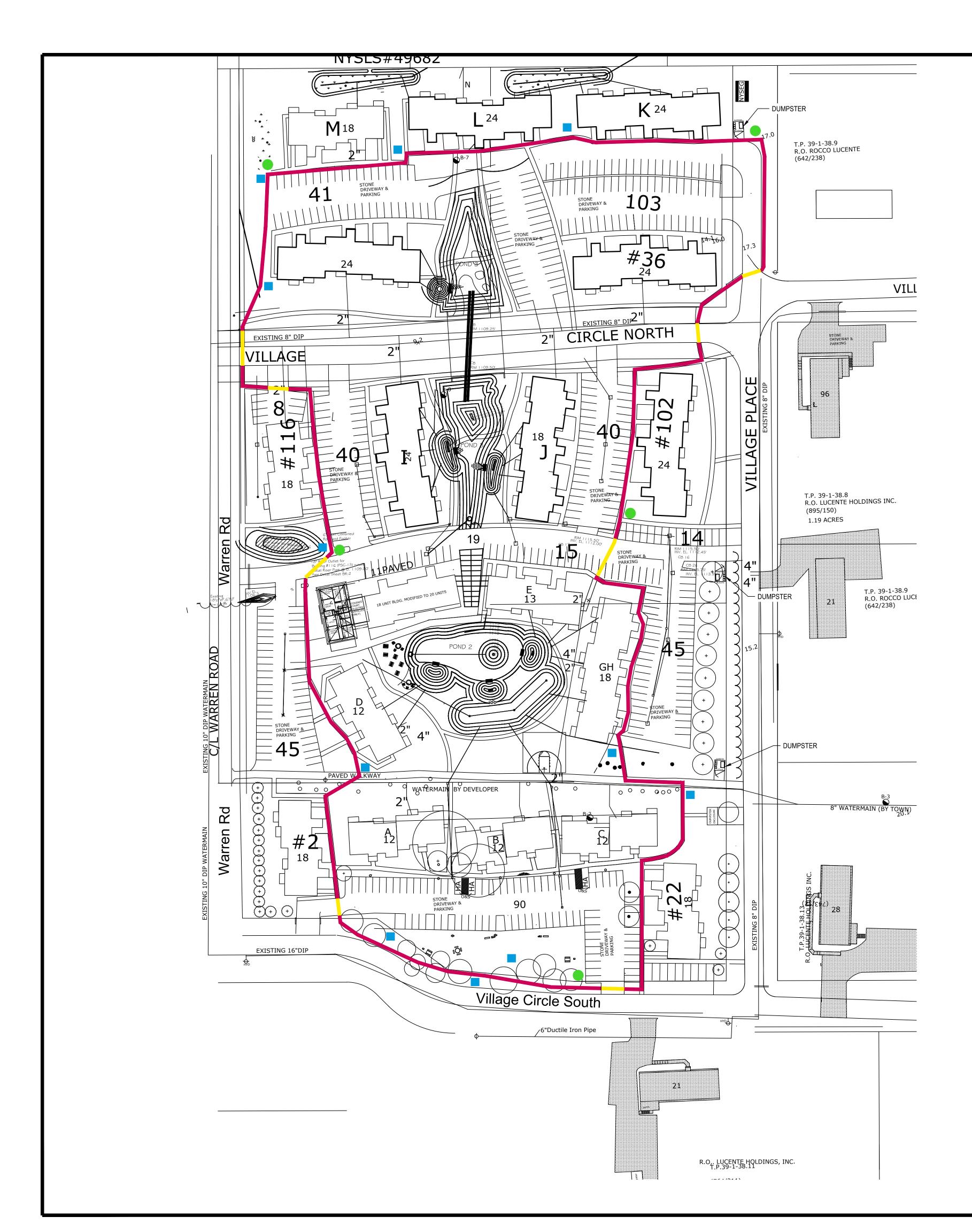
100% BgC Hydrologic Soil Group (HSG) B

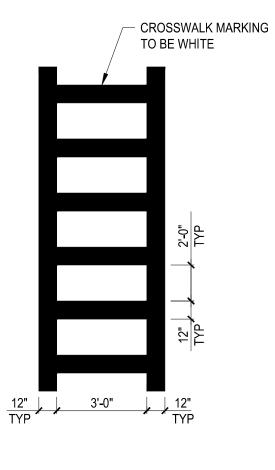
Overland Stormwater Runoff - Longest Flowpath = 214 If +/-Sheet Flow, Short Grass - 100 If @ S = 1.5% avg. Trap/Vee Channel Flow - 40 If @ S = 1.5% avg.

To Design Point 1 - (DP 1)

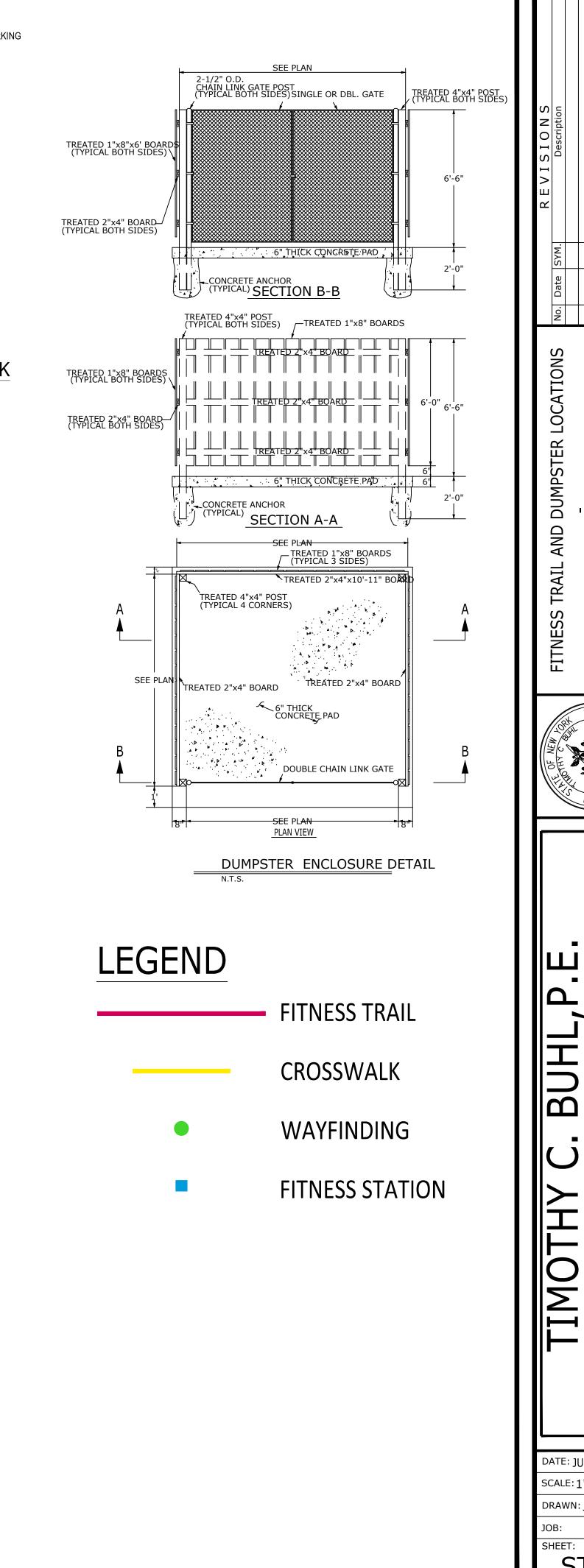


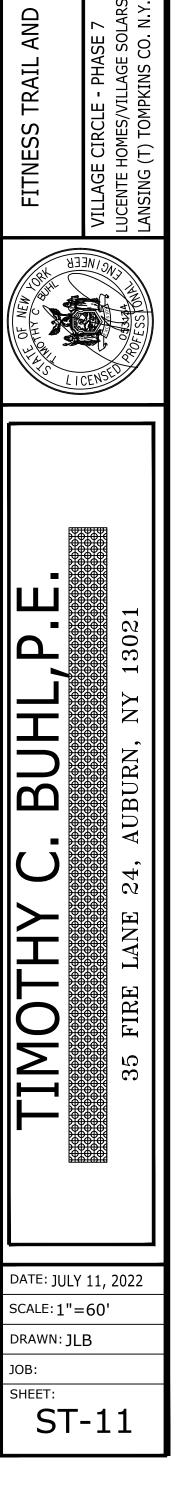






PAINTED CROSSWALK



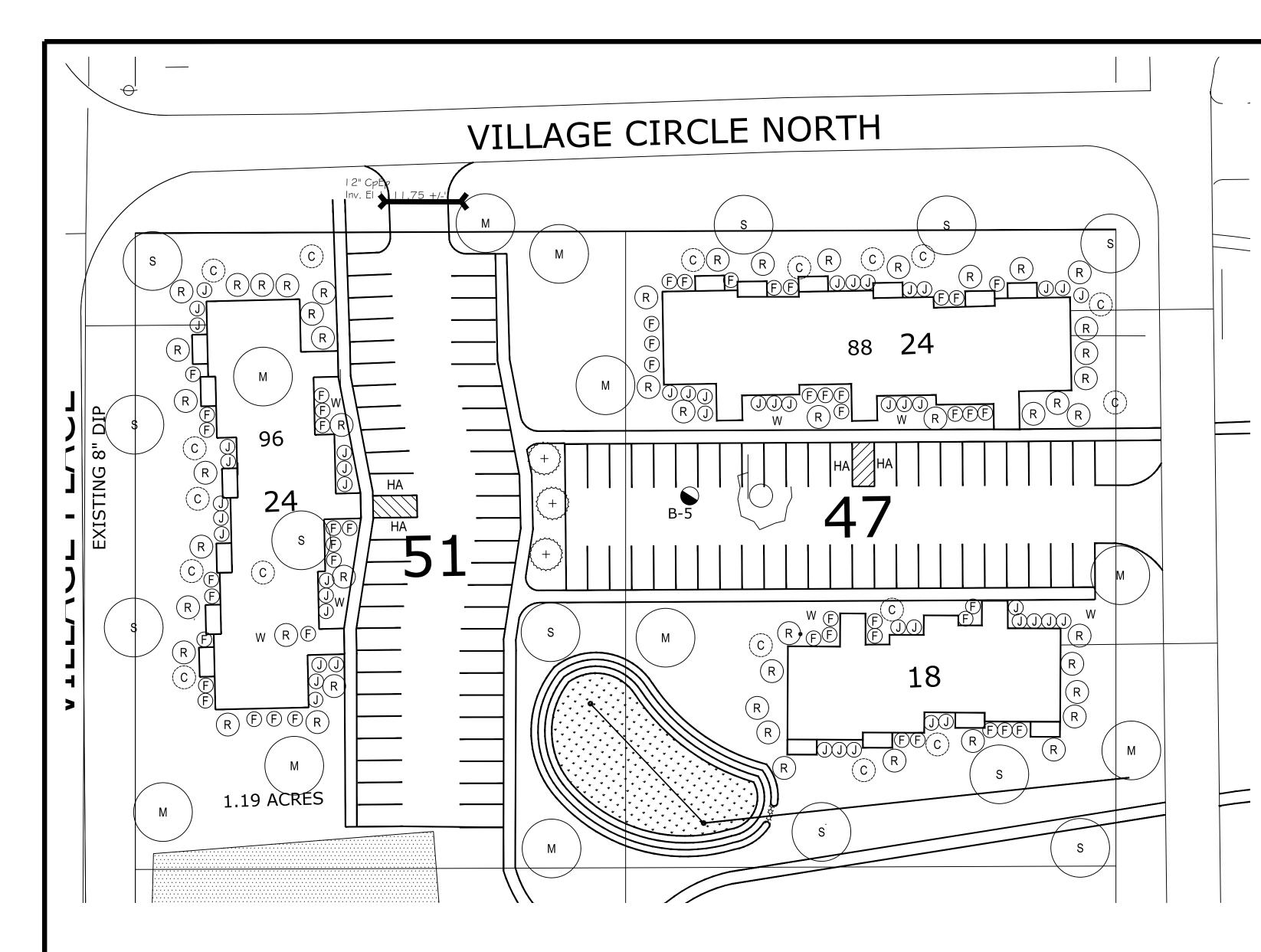


INC RD.

HOLDINGS, GADORN HILL

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CEN<sup>381</sup>



# PLANTING SCHEDULE

24 UNIT BUILDING PLANTINGS

PLANT TYPE

NUMBER OF PLANTS

FORSYTHIA SHRUBS	18 EA
JUNIPER SHRUBS	18 EA
ROSA SHARON SHRUBS	18 EA
WEEPING CHERRY TREE	2 EA
CHERRY TREE	6 EA

**18 UNIT BUILDING PLANTINGS** 

PLANT TYPE

NUMBER OF PLANTS

FORSYTHIA SHRUBS	12 EA
JUNIPER SHRUBS	12 EA
ROSA SHARON SHRUBS	12 EA
WEEPING CHERRY TREE	2 EA
CHERRY TREE	4 EA

NOTE: SEE SUPPLIMENTAL LANDSCAPING CHART PREVIOUSLY SUBMITTED

