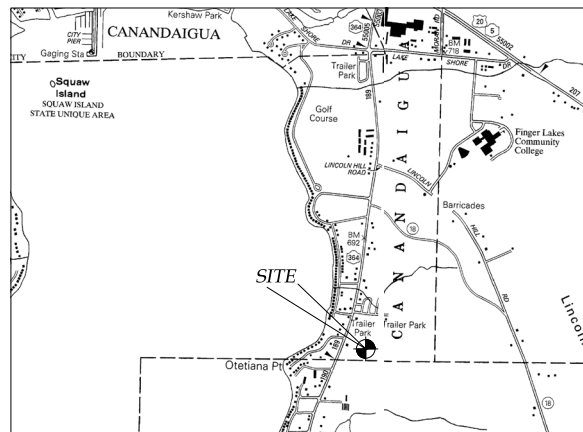


PRELIMINARY SUBDIVISION & SITE PLANS FOR:

SUNSET RIDGE ESTATES/ LAKEWOOD CUSTOM HOMES RESIDENTIAL DEVELOPMENT

3535 SR 364 - COUNTY RD 18
TOWN OF CANANDAIGUA/HOPEWELL
COUNTY OF ONTARIO
STATE OF NEW YORK
FEBRUARY 1ST, 2022



LOCATION MAP
1/18



NOT FOR CONSTRUCTION

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MarksEngineering

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PROPERTY OWNER:
ANGELO LICCARADELLO

PREPARED FOR:
ANGELO LICCARADELLO

REVISIONS:

WATER/HIGHWAY SUPERINTENDENT _____ DATE _____

PLANNING BOARD CHAIRMAN _____ DATE _____

TOWN ENGINEER _____ DATE _____

SUNSET CUSTOM HOMES
RESIDENTIAL DEV.
CANANDAIGUA/HOPEWELL
COUNTY OF ONTARIO
NEW YORK
JOB #20-243
2/1/2022

1. CUT AND FILL SLOPES SHALL NOT EXCEED 3 ON 1.
2. CONSTRUCTION SHALL CONFORM TO THE TOWN OF CANANDAIGUA AND NYS CODES AND STANDARDS
3. SITE SHALL BE GRADED SUCH THAT THERE IS POSITIVE DRAINAGE AT A MINIMUM OF 2% AWAY FROM ANY BUILDINGS, STRUCTURES, DRIVEWAYS, AND SEPTIC SYSTEM.
4. TOPSOIL SHALL BE STRIPED OF AREAS PLANNED FOR CONSTRUCTION AND REAPPLIED AFTER GRADING IS FINISHED. ANY UNUSED TOPSOIL SHALL BE HAULED OFF SITE.

LARGEST PIPE SIZE IN STRUCTURE	INSIDE DIAMETER OF STRUCTURE
UP TO 24"	4'
27" TO 42"	5'
LARGER THAN 42"	SPECIAL STRUCTURE

3. LINING MATERIALS AND SPECIAL BACKFILL TO BE R.O.B. OR R.O.C. MATERIAL (N.Y.S.D.O.T. SECTION 304-2.02 TYPE 4), MEETING THE FOLLOWING GRADATIONS:

4. GRANULAR FILTER MATERIAL TO BE N.Y.S.D.O.T. SECTION 605-2.02 TYPE 1, MEETING THE FOLLOWING GRADATIONS:

- | <u>SIEVE SIZE</u> | <u>% PASSING BY WEIGHT</u> |
|-------------------|----------------------------|
| 1" | 100 |
| 1/2" | 30-100 |
| 1/4" | 0-30 |
| #10 | 0-10 |
| #20 | 0-5 |

<u>SIEVE SIZE</u>	<u>% PASSING BY WEIGHT</u>
1"	100
1/2"	30-100
1/4"	0-30
#10	0-10
#20	0-5

5. RIP-RAP SHALL BE UNIFORMLY HARD, DURABLE, AND ANGULAR FIELD OR QUARRIED LIMESTONE WITH A MINIMUM DENSITY OF 150 LB/CF. THE RATIO OF THE MINIMUM DIMENSION TO THE MAXIMUM DIMENSION OF EACH PIECE TO BE AT LEAST 0.6. RIP-RAP SHALL BE COMPOSED OF A WELL GRADED MIXTURE OF PRIMARILY LARGER STONE SIZES WITH A SUFFICIENT MIXTURE OF SMALLER SIZES TO FILL THE VOIDS. UNLESS OTHERWISE NOTED IN THESE PLANS, SUPPLEMENTAL SPECIFICATIONS, OR UNLESS OTHERWISE DIRECTED RIP-RAP SIZES SHALL BE AS FOLLOWS:

MAX. DIMENSION OF STONE	% OF MIX BY WEIGHT
18"-24"	20
12"-18"	50
8"-12"	20
4"-8"	10

- ### CONSTRUCTION SEQUENCE

1. DELINEATE LIMITS OF DISTURBANCE
2. INSTALL SALT FENCE, STABILIZED CONSTRUCTION ENTRANCE AND OTHER TEMPORARY CONTROLS
3. INSTALL TEMPORARY SEDIMENT TRAP AT LOCATION OF PROPOSED PONDS
4. STRIP TOPSOIL FROM EXISTING ROAD AND EXPOSED AREAS
5. SEED & MULCH STOCKPILES AND PROTECT WITH TIE SOIL FENCE
6. COMPLETE EARTHWORK AND ROUGH GRADE SITE
7. STABILIZE ROAD SURFACES WITH TEMPORARY SEEDING
8. INSTALL UTILITIES
9. ESTABLISH STORMWATER MANAGEMENT POND FACILITIES. (OVEREXCAVATED) FILL EXCESS WITH TOPSOIL
10. INSTALL INLET SEDIMENT TRAPS AND INLET PROTECTION
11. INSTALL ROAD SUBBASE
12. INSTALL ROADWAY
13. INSTALL SIDEWALKS
14. EXCAVATE FOUNDATIONS
15. BUILD FOUNDATION AND STRUCTURES
16. BACKFILL FOUNDATION AFTER FIRST FLOOR IS COMPLETE
17. INSTALL PRIVATE DRIVEWAYS
18. REPAIR TOP SURFACE OF BUILDING. FINAL GRADE SEE AND MULCH
19. ESTABLISH DRY-SWALES AFTER UPHILL AREAS CONTRIBUTING DRAINAGE ARE STABILIZED
20. INSTALL LANDSCAPING & LIGHTING FEATURES PER PLAN
21. INSTALL INFILTRATION/FITRATION PRACTICES ONCE ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED
22. REMOVE TEMPORARY CONTROLS AFTER SITE STABILIZED WITH VEGETATION

1 THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF
EROSION AND SEDIMENTATION DURING CONSTRUCTION. SILT
2 FROM ANY SOURCE SHALL BE PREVENTED FROM ENTERING THE
3 WHERE SOIL DISTURBANCES ACTIVITIES HAVE TEMPORARILY OR
PERMANENTLY CEASED, SOIL STABILIZATION MEASURE SHALL BE
INITIATED BY THE NEP OF THE NEXT BUSINESS DAY AND
4 COMPLETED WITHIN 14 DAYS OF THE CESSATION OF THE
DISTURBANCE, OR 3 DAYS IF BETWEEN NOVEMBER 15TH AND APRIL
15TH, SOIL SHALL BE STABILIZED WITH NORTHERN GRASS SEED
MIXTURE OR APPROPRIATE SEED MIXTURE FOR CONDITIONS
5 GRASS SHALL BE MAINTAINED AT A MINIMUM OF 80% OF
SPECIFICATIONS. MULCH STRAW APPLIED AT A RATE OF 2 BALES /
1000 SQFT OR SEED MIXTURE TO PROTECT SITE UNTIL SEED
6 ESTABLISHES HYPERICUM POLYDORUM SHALL BE PLANTED AND MAINTAINED
7 CONTRACTOR SHALL INSPECT THE SITE DAILY FOR SIGNS OF
EROSION, IF ANY EROSION OR SEDIMENTATION OCCUR
8 CONTRACTOR SHALL IMMEDIATELY PROVIDE PROPER CONTROLS TO
STABILIZE THE SITE. ENGINEER WILL RECOMMEND CONTROLS IF
9 REQUIRED.

4. SLOPE GREATER THAN 4 ON 1 SHALL BE SEEDDED WITH STEEP SLOPE MIX (SEE LANDSCAPING PLANS) AND STABILIZED WITH JUTE FIBRIC INSTALLED AS PER MANUFACTURERS SPECIFICATIONS AS REQUIRED.
5. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENTATION CONTROLS.
6. INSTALL AND MAINTAIN TEMPORARY DIVERSION SWALES AS NEEDED TO PREVENT RUNOFF DURING CONSTRUCTION.
7. THE SITE SHALL BE COMPLETELY STABILIZED FOLLOWING CONSTRUCTION ACTIVITIES AND ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF PROPERLY.
8. CONCRETE TRUCK SHALL BE WASHED OUT INTO A CONCRETE WASHOUT AREA MEETING THE REQUIREMENTS OF THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYS DEPARTMENT OF HEALTH.
- THE CONTRACTOR SHALL OBTAIN A PLAT NUMBER #11 FOR LOCATION OF UNDERGROUND GAS, ELECTRIC AND TELEPHONE 48 HOURS BEFORE UNDERTAKING ANY EXCAVATION.
- IF THERE ARE ANY UNKNOWN UTILITIES LOCATED ON THE PROJECT, THE CONTRACTOR MUST BE PLOTTED FROM AVAILABLE FIELD LOCATION AND/OR UTILITY COMPANY RECORD PLANS, AND THE ACCURACY OF SUCH INFORMATION IS DEPENDENT ON THE SOURCES FROM WHICH IT WAS OBTAINED.
- THE CONTRACTOR SHALL DETERMINE IF UTILITY COMPANY STAKEOUT HAS BEEN COMPLETED AND SHALL VERIFY EXACT LOCATION AND ELEVATION OF UNDERGROUND UTILITIES BEFORE EXCAVATING.
- MAKE EXPLORATORY EXCAVATION TO LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY FAR AWAY FROM THE PROPOSED TRENCHES TO PREVENT DAMAGE TO EXISTING UTILITIES.
- TAKE PRECAUTIONS TO PROTECT ALL UTILITY LINES WHETHER OR NOT SHOWN ON THESE PLANS. REPAIR ANY DAMAGE TO UTILITIES RESULTING FROM CONSTRUCTION ON THIS PROJECT.
- CONDUCT REGULAR SAFETY CHECKS TO PRESERVE ALL SURVEY MONUMENTS AND R.O.W. MONUMENTS IN THE AREA OF CONSTRUCTION.
- WATER MAINS SHALL BE PVC, C90, 24" DRIP PRESSURE CLASS 150 WITH 10 GAUGE MINIMUM WALL THICKNESS.
- WATER MAIN FITTINGS SHALL BE AWWA C110/ANSI 24" 1 DUCTILE IRON FITTINGS OR AWWA C153/ANSI 24" 5 DUCTILE IRON COMPACT FITTINGS ANSI 24" 1 CEMENT MORTAR LININGS AND ANTI-SIPHONAGE VALVES, BUTT WELD JOINTS.
- GATE VALVES SHALL BE AWWA C-509, RESILIENT-SEALING, NON-RISING STEM GATE VALVES AS SPECIFIED BY THE OWNER.
- ALL WATER MAINS INCLUDING HYDRANT BRANCHES SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET COVER FROM THE TOP OF THE MAIN TO FINISHED GRADE. THE TOWN OF HOWELL SHALL PROVIDE AT LEAST 6 INCH DEPTH OF COVER OVER ALL INSTALLED WATER MAINS WILL HAVE THE REQUIRED COVER.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY FINE GRADING, TOP SOILING AND SEEDING TO MATCH EXISTING SURFACES.
- THE COMPLETED WORKS ARE NOT TO BE PLACED IN OPERATION UNTIL A COMPLETED WORKS CERTIFICATE IS ISSUED FROM THE TOWN ENGINEER.
- PROVIDE MUELLER H-1500B CORPORATION STOPS, MUELLER H-15209 "R" CLAMP STOPS, MUELLER H-10314 CURB BOXES, AND DOUBLE STRAP SERVICE CLAMP BZ2089C99.
- HYDRANTS SHALL BE CAST IRON, 12" DIAMETER, 12' HIGH CLASS 200, NSF-61 APPROVED.
- HYDRANTS SHALL CONFORM TO AWWA C-502; CITY OF NEW YORK HYDRANTS BY THE MEDICAL VILLAGE LINE WATER SUPPLY TREATMENT PLANT SHALL BE EVERY 1200 FEET AND AT THE BEGINNING AND END OF EVERY MAIN.
- FOR PROTECTING THE ROOTS OF TREES POLES WHERE WATER MAINS ARE TRENCHED WITHIN 6 FEET OF LOCAL UTILITY.

ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH NYSDOH, NYSDOT, NYSPDRAP/ NYSEDE, NYSDCL, OSHA, ONTARIO COUNTY, AND LOCAL COMMUNITY REQUIREMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INFORMATION COMPLIED BY THE ENGINEER FROM DRAWINGS OF RECORDS AND INFORMATION FURNISHED BY THE UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND MAY BE APPROXIMATE ONLY. IF IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THIS INFORMATION VERIFIED AND LOCATED PRIOR TO THE CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE DEPTH AND LOCATION OF UTILITIES.

THE APPROXIMATE LOCATION OF THE PROPOSED WATER MAIN IS INDICATED ON THE PLANS.

3.1.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES OR OTHER CONTROLLING FACTORS AS DETERMINED BY THE ENGINEER.

4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES, SEWERS, AND LATERALS AHEAD OF THE PIPE LAYING OR OTHER WORK OPERATIONS SO THAT IF MINOR ADJUSTMENTS MUST BE MADE TO THE EXISTING UTILITIES, DUE TO INTERFERENCE, THESE CHANGES CAN BE MADE IN ADVANCE OF THE WORK.

WHERE THE CLEARANCE BETWEEN THE WATER MAIN AND ANY EXISTING UTILITY OR SERVICE CONDUIT IS EXCEEDED, SAND FILL SHALL BE USED TO MAINTAIN THE EXISTING UTILITY AT A TYPE 1 SELECT FILL SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

ALL FITTINGS SHALL BE PROPERLY RESTRAINED WITH 2500 PSI THRUST BLOCKING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING CONSTRUCTION, THE ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCESS FOR ADJACENT OWNERS, DRIVEWAYS, SERVICE ROADS AND PUBLIC STREETS SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.

THE CONTRACTOR SHALL LOCATE, FLAG AND PRESERVE SURVEY MONUMENTS AND PROPERTY CORNER MARKERS. THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR REESTABLISH ANY PROPERTY CORNERS OR SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

10. WHEN INSTALLING HYDRANTS OR BLOW-OFFS, STOPPES GROUND WATER BE ENCOUNTERED WITHIN THE DISTRICT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PLUGGED, HYDRANTS AND BLOW-OFFS SHALL BE SO LABELED, PER LOCAL JURISDICTION REQUIREMENTS, AND THE WATER DISTRICT SUPERINTENDENT AND LOCAL FIRE DEPARTMENT SHALL BE NOTIFIED.

11. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE 18" INCHES MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION SHALL BE 10' FEET.

1. THE CONTRACTOR SHALL MAINTAIN ALL UTILITIES AND PROPERTY MARKERS. IT IS THE NYS LAW TO CALL NYS DIE SAFE FOR UP08 (811) PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE KEPT AWARE OF DEBRIS DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL, DEBRIS, TRAFFIC, (BARRICADES, FENCING, ETC.) SHALL BE MAINTAINED TO MINIMIZE RISK OF INJURY TO PEDESTRIANS AND WORKERS. CONSTRUCTION ACTIVITY SHALL BE CONDUCTED IN ACCORDANCE WITH THE NYS DEPARTMENT OF TRANSPORTATION.
3. PLANS ARE GRAPHIC REPRESENTATIONS OF WORK TO BE PERFORMED. THESE PLANS ARE TO BE INTENDED TO CONVEY ENGINEERING INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION. NO ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
4. ALL SPECIFIED MATERIALS ARE TO BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
5. ANY SYSTEM MODIFICATIONS OR DEVIATIONS FROM THE APPROVED PLANS, NYS BUILDING CODES, AND/OR LOCAL REGULATIONS REQUIRED BY SITE CONSTRAINTS OR CONDITIONS OR GOVERNING AUTHORITIES WILL BE DONE AT THE RISK OF THE CLIENT.

1. DRIVEWAY SHALL NOT EXCEED 10% TRAVERSING SLOPE AND 2% CROSS SLOPE.
2. DRIVEWAY SHALL BE MINIMUM 12 FEET IN WIDTH (RESIDENTIAL) OR 20' IN WIDTH (COMMERCIAL).
3. DRAINAGE SWALES SHALL HAVE A MINIMUM DEPTH OF 12" AND MINIMUM WIDTH OF 4'. SWALES SHALL HAVE A LINEAR SLOPE OF MINIMUM 2% (1" RISE PER 50' RUN) AND MAXIMUM SIDE SLOPE OF 1:1 RISE PER 3' RUN.
4. ALL WORK WITHIN RIGHT-OF-WAY SHALL BE PERMITTED BY HIGHWAY SUPERINTENDENT AND COORDINATE W/ INSPECTOR.

[illegible]

WATER FOR TESTING AND FLUSHING SHALL BE OBTAINED FROM EXISTING WATER SYSTEM. ARRANGEMENTS SHALL BE MADE WITH THE WATER DEPARTMENT FOR PAYMENT OF WATER USED IN CONNECTION WITH THIS PROJECT BEFORE COMMENCEMENT OF WORK AND AFTER EACH SECOND.

BEFORE TESTING, SECTIONS ADJACENT TO THE TEST SECTION SHALL BE FILLED WITH WATER. BEFORE TESTING, CONTRACTOR SHALL FURNISH ALL WATER, EQUIPMENT, CONNECTIONS, PIPING, METERS, MEASURING DEVICES, PUMPS, AND TEMPORARY ENCLOSURES NECESSARY TO PERFORM THE REQUIRED TESTS.

TESTS MUST BE CONDUCTED WITHOUT INTERRUPTING SERVICE TO OTHER AREAS. THE CONTRACTOR SHALL NOT INSTALL CORPORATION STOPS FOR THE SERVICES UNTIL THE WATER MAIN HAS PASSED THE PRESSURE TEST. HAS PASSED ALL HEALTH SAMPLE TESTING, ALL SAMPLE DISINFECTION TESTS, AND ALL TESTS HAVE BEEN COMPLETED SUCCESSFULLY. THE CONTRACTOR SHALL NOTIFY THE WATER AUTHORITY AND THE CONTRACTOR HAS RECEIVED APPROVAL TO INSTALL THE SERVICES FROM THE OWNER/ENGINEER. THE OWNER/ENGINEER WILL PROVIDE THE CONTRACTOR A LISTING OF ALL WATER MAINS AND APPOINTMENTS THAT WILL BE DISINFECTED BY CHLORINE RESIDUAL. ON ANY PUMP, PIPE, CONNECTIONS, GAUGES, AND MEASURING DEVICES SHALL BE CALIBRATED TO THE REQUIREMENTS OF THE ENGINEER.

ALL WATER MAINS AND APPOINTMENTS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651 DISINFECTING WATER MAINS, ITEM S-1 DELETED, AND THE REQUIREMENTS OF NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S REGULATION 60.17. CONTRACTOR SHALL MAINTAIN A HEALTH SAMPLE GATHEN WHERE THERE IS A CONFLICT. USE 50 PPM INITIAL CHLORINE Dose. DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR A PERIOD OF 24 HOURS AFTER WHICH THE RESIDUAL SHALL BE AT LEAST 25 PPM THROUGHOUT THE ENTIRE LENGTH OF THE WATER MAIN. CONTRACTOR SHALL RECORD THE AMOUNT OF WATER USED FOR DISINFECTING THE WATER MAINS, IF DISCHARGED TO THE STREAMS.

THE CONTRACTOR SHALL OBTAIN AN ORIGINAL ANALYSIS REPORT FROM THE STATE OF NEW YORK. THE CONTRACTOR IS RESPONSIBLE TO ATTAIN THIS CHLORINE RESIDUAL LEVEL BY WHATEVER MEANS NECESSARY, AT NO COST TO THE OWNER.

IF ANY PARTIAL OR FULL SECTIONS OF WATER MAIN THAT CANNOT NORMALLY BE DISINFECTED SHALL BE SWABBED BY THE CONTRACTOR, TO THE SATISFACTION OF THE ENGINEER, WITH A CONCENTRATED CHLORINE SOLUTION CONTAINING NO LESS THAN 200 PPM OF FREE CHLORINE. THE CONTRACTOR SHALL SUBMIT ANALYTICAL RESULTS TO THE ENGINEER. THE CONTRACTOR SHALL BE CRACKED, DAMAGED, CONTAMINATED, OR SUSPECTED OF BEING CONTAMINATED AS A RESULT OF WORK DONE UNDER THIS PROJECT. WATER SAMPLES SHALL BE COLLECTED BY THE CONTRACTOR AND ANALYZED BY A NEW

NEW YORK STATE DEPARTMENT OF HEALTH APPROVED TESTING LABORATORY FOR BACTERIOLOGICAL AND CHEMICAL ANALYSIS. SAMPLES SHALL BE TAKEN FROM THE FIRST 10 FEET OF THE STREET SIDE CURB STREET SHALL BE COLLECTED AND ANALYZED. LOCATION OF SAMPLING TAP AS PROVIDED BY THE ENGINEER AND N.Y.S.D.O.H. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING DEVICES. THE CONTRACTOR SHALL OBTAIN AN ORIGINAL ANALYSIS REPORT FROM THE STATE OF NEW YORK.

1. THE CONSTRUCTION SITE IS NOT WITHIN 100' OF A JURISDICTIONAL OR MAPPED WETLAND AS DELINEATED BY NYSDEC OR US ARMY CORP OF ENGINEERS.
2. THE CONSTRUCTION SITE IS NOT WITHIN A 100 YEAR FLOODPLAIN AS DELINEATED BY FEMA.
3. WATER SUPPLY: PUBLIC WATER
4. NYS SPDES PERMIT IS REQUIRED FOR THESE CONSTRUCTION ACTIVITIES. DISTURBANCE SHALL BE LESS THAN FIVE ACRE & EROSION CONTROL MEASURES BY CONTRACTOR OR OWNER AT ANY TIME PLAN DISTURB GREATER THAN FIVE ACRE THE ENGINEER SHALL BE NOTIFIED.
5. ALL NEW OUTDOOR LIGHTING ON SITES HAVE APPROPRIATE SHIELDS AND CUT-OFF TO LIMIT ILLUMINATION OF OTHER PROPERTIES. ALL LIGHTS SHALL BE DARK SKY COMPLIANT.
6. ELEVATION DATUM: NAVD 88 GEOID 12K

1. NO PHOSPHOROUS SHALL BE USED AT PLANTING TIME UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY A HORTICULTURAL TESTING LAB AND THE SOIL TESTS SPECIFICALLY INDICATE A PHOSPHOROUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS AND PLANTINGS FROM ESTABLISHING PROPERLY.
2. IF SOIL TESTS INDICATE A PHOSPHOROUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHOROUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED IN THE SOIL TEST FOLLOWING ALL NYS DEC.

It is a violation of NYS Education Law Section 2205 for any person to offer a document in any way, unless acting under the direction of a licensed professional. If a document bearing the seal and the notation "altered by" followed by their signature and the date is made with alteration, and a specific description of the alteration.

STANDARD NOTES - TOWN OF CANANDAIGUA -

1. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE TOWN OF CANANDAIGUA AND THE APPROPRIATE WATER/SEWER AGENCIES, UNLESS OTHERWISE NOTED.
2. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO CONFORM WITH THE LATEST NYSDEC GENERAL PERMIT AND TO THE TOWN REQUIREMENTS REGARDING MAINTENANCE AND CONTROL OF STORM WATER QUALITY AND QUANTITY.
3. ALL SWPPP'S ARE REQUIRED TO BE REVIEWED AND APPROVED BY THE TOWN CEO AND TOWN ENGINEER. THE TOWN MSA SWPPP ACCEPTANCE FORM IS TO BE SIGNED AND INSERTED INTO THE PROJECT SWPPP PRIOR TO CONSTRUCTION.
4. THE OWNER IS RESPONSIBLE FOR IMPLEMENTING THE REQUIRED SWPPP, INCLUDING FILING OF THE "NOTICE OF INTENT" (NOI). A COPY OF THE NYSDEC ACKNOWLEDGEMENT LETTER IS TO BE PROVIDED TO THE TOWN DEVELOPMENT OFFICE AND TOWN ENGINEER PRIOR TO CONSTRUCTION.
5. A COPY OF THE PROJECT SWPPP IS TO BE PROVIDED TO THE TOWN DEVELOPMENT OFFICE, TOWN ENGINEER, AND A COPY IS TO REMAIN ON-SITE DURING CONSTRUCTION AT ALL TIMES IN A MARKED AND ACCESSIBLE LOCATION.
6. ANY MODIFICATIONS OR DEVIATIONS FROM THE APPROVED PLANS, CONSTRUCTION SEQUENCE, AND/OR SWPPP, INCLUDING IMPLEMENTATION OF EROSION CONTROL MEASURES AND STORM WATER MANAGEMENT AREAS, SHALL BE APPROVED BY THE TOWN OF CANANDAIGUA AND DOCUMENTED WITHIN THE PROJECT SWPPP.
7. THE OWNER IS REQUIRED TO PROVIDE DAILY ON-SITE OBSERVATION BY A LICENSE PROFESSIONAL, OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC). ALL SWPPP INSPECTIONS ARE TO BE IN A FORM ACCEPTABLE BY THE TOWN OF CANANDAIGUA AND FORWARDED TO OWNER, THE TOWN CEO, TOWN ENGINEER, AND A COPY PLACED WITHIN THE ON-SITE PROJECT SWPPP.
8. THE OWNER IS RESPONSIBLE FOR PROVIDING ON-SITE SWPPP INSPECTIONS BY A LICENSE PROFESSIONAL OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) DURING CONSTRUCTION ONCE PER WEEK (EVERY 7 DAYS) IF UNDER 5-ACRES OF DISTURBANCE AND TWICE PER WEEK (EVERY 7 DAYS) IF 5-ACRES OR MORE WITH RECEIPT OF A 5-ACRE WAIVER FROM THE TOWN OF CANANDAIGUA (MSA).
9. DEVELOPMENT IN THE CANANDAIGUA LAKE WATERSHED DISTURBING MORE THAN 5-ACRES AT ONE TIME, IS REQUIRED TO COORDINATE THE REGULAR SWPPP OBSERVATIONS REQUIRED BY THE LATEST GENERAL PERMIT WITH THE CANANDAIGUA LAKE WATERSHED INSPECTOR, THE WATERSHED PROGRAM MANAGER AND THE TOWN CEO ENFORCEMENT OFFICER.
10. CONSTRUCTION SEQUENCE -- ALL PLANS ARE TO BE PROVIDED WITH A DETAILED CONSTRUCTION SEQUENCE. THE CONTRACTOR SHALL COMPLETE CONSTRUCTION AND INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SEQUENCE UNLESS SPECIFIED OTHERWISE ON THE APPROVED DESIGN PLANS OR AT THE PRE-CONSTRUCTION MEETING.
11. DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY THE CONTRACTOR TO MINIMIZE EFFECT ON THE ADJACENT PROPERTIES. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED AND/OR AS DIRECTED BY THE TOWN OF CANANDAIGUA.
12. THE OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, CLEANING, REPAIR AND REPLACEMENT OF EROSION CONTROL MEASURES DURING SITE CONSTRUCTION AND UNTIL THE SITE IS FULLY STABILIZED, INSPECTED BY THE TOWN OF CANANDAIGUA, AND ISSUANCE OF THE NOTICE OF TERMINATION (NOT) HAS BEEN PROVIDED TO NYSDEC.
13. B. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE PROVIDED AS FOLLOWS:
 - THE SURFACE 20 INCHES OF SOIL SHOULD BE LOOSED BY DIGGING, RAKING, OR BACK-SLAIDING WITH A BUILDZOR.
 - FERTILIZE WITH 300 POUNDS PER ACRE (OR 75 POUNDS PER 1,000 SQUARE FEET).
 - NO PHOSPHORUS SHALL BE USED UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY AN AGRICULTURAL TESTING LAB AND THE SOIL TESTS SPECIFICALLY INDICATE A PHOSPHORUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWN AND PLANTINGS FROM ESTABLISHING PROPERLY.
 - IF SOIL TESTS INDICATE A PHOSPHORUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHORUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED BY THE SOIL TEST FOLLOWING ALL NYSDEC REGULATIONS.
 - THE FOLLOWING SEED MIX SHALL BE USED:
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 - THE FOLLOWING SEED MIX SHALL BE USED:
15. 15. NO SITE PREPARATION SHALL COMMENCE UNTIL A VISUAL INSPECTION BY THE TOWN OF CANANDAIGUA, CONFIRMING THE INSTALLATION OF PERIMETER SEDIMENT CONTROLS AND THE STABILIZED CONSTRUCTION ENTRANCE.
16. 16. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF VEGETATION, THE STORM WATER MANAGEMENT FACILITIES SHALL BE CLEANED OF ACCUMULATED SILT.
17. 17. ALL SITE STABILIZATION IS TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND THE NYSDEC GENERAL PERMIT REQUIREMENTS (WHERE APPLICABLE).
18. 18. ADDITIONAL TEMPORARY AND PERMANENT SEEDING AND SITE STABILIZATION REQUIREMENTS:
 - A. ALL DISTURBED AREAS INCLUDING TOPSOIL STOCKPILES AND STORMWATER MANAGEMENT FACILITIES ARE TO BE STABILIZED WITHIN SEVEN (7) DAYS AFTER COMPLETION.
 - B. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE PROVIDED AS FOLLOWS:
 - THE SURFACE 20 INCHES OF SOIL SHOULD BE LOOSED BY DIGGING, RAKING, OR BACK-SLAIDING WITH A BUILDZOR.
 - FERTILIZE WITH 300 POUNDS PER ACRE (OR 75 POUNDS PER 1,000 SQUARE FEET).
 - NO PHOSPHORUS SHALL BE USED UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY AN AGRICULTURAL TESTING LAB AND THE SOIL TESTS SPECIFICALLY INDICATE A PHOSPHORUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWN AND PLANTINGS FROM ESTABLISHING PROPERLY.
 - IF SOIL TESTS INDICATE A PHOSPHORUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHORUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED BY THE SOIL TEST FOLLOWING ALL NYSDEC REGULATIONS.
 - THE FOLLOWING SEED MIX SHALL BE USED:

SPRING/SUMMER/EARLY FALL	USE/ACRE	12.5/1,000 SQ. ACRES
ANNUAL RYE GRASS	30	0.7
PERENNIAL PEGRAM	10	0.2
LATE FALL/EARLY WINTER		
CERIAL RYE	100	2.5

- SEED SHOULD HAVE A GERMINATION RATE OF AT LEAST 85 PERCENT AND MINIMAL INERT MATERIAL.
- C. DISTURBED AREAS SHALL BE STABILIZED USING PERMANENT LAWN SEEDING MIX UPON COMPLETION OF GRADING AND CONSTRUCTION:

SEEDING RATE	SEEDING RATE
BIOSPOT TREES OR COMMON WHITE CLOVER	8 OR 8
TALL FESCUE	20
RESTOR OR PEGRAM (PERENNIAL)	2 OR 5

- SEEDING RATE: 6.0 POUNDS PER 1,000 SQUARE FEET
- MULCH: STRAW OR WOOD FIBER MULCH USED WITH HYBRID SEEDING METHOD AT TWO TONS PER ACRE WITH TACKIFIER.
- FOR FALL OR EARLY WINTER, SEED WITH CERTIFIED "ARROSTOCK" WINTER RYE (CERIAL RYE) AT 100 POUNDS PER ACRE.
- PERMANENT STABILIZATION FOR STEEP SLOPES GREATER THAN 3:1 SHALL INCLUDE JUTE MESH BLANKET AND CROWN VETCH SEED WITH PERENNIAL PEGRAMS.

19. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND RIGHT-OF-WAY MONUMENTS IN THE AREAS OF CONSTRUCTION.

20. EXISTING UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM FIELD LOCATIONS AND/OR UTILITY COMPANY RECORD PLANS. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL THE ONE SAFELY NEW YORK (UPDO) HOTLINE AT 1-800-962-7962 FOR STAKEOUT OF EXISTING UTILITIES. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES BEFORE COMMENCING CONSTRUCTION. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS TO LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS REQUIRED TO MEET THE EXISTING CONDITIONS.

21. THE HOMEOWNER WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING INDIVIDUAL LOT EROSION & SEDIMENT CONTROL MEASURES DURING HOME CONSTRUCTION. MEASURES TO BE MAINTAINED UNTIL FINAL LOT LAWN GRADING AND SITE IS FULLY STABILIZED AND INSPECTED BY THE TOWN OF CANANDAIGUA.

22. ANY ADDITIONAL EROSION OR SEDIMENT CONTROL MEASURES DEEMED NECESSARY BY THE TOWN OF CANANDAIGUA OR A REPRESENTATIVE THEREOF SHALL BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.

23. SEDIMENT CONTROL MEASURES ARE TO BE ESTABLISHED PRIOR TO COMMENCING EARTHWORK. SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED BY THE CONTRACTOR UNTIL UPSTREAM DRAINAGE COVER HAS BEEN ESTABLISHED AND REMOVAL IS APPROVED BY THE TOWN OF CANANDAIGUA.

24. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, REPLACING AND SUBSEQUENTLY REMOVING TEMPORARY EROSION & SEDIMENT CONTROL DEVICES.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ADJOINING PROPERTIES, ROADWAYS, DRAINAGEWAYS AND SINKS OF SILT ACCUMULATION AS NEEDED AND AS DETERMINED/REQUESTED BY THE TOWN OF CANANDAIGUA.

26. ANY FINAL GRADE DEVIATIONS OF HOUSE PAD ELEVATIONS MORE THAN 12 INCHES SHALL BE APPROVED BY THE PLANNING BOARD.

PIPE BEDDING DETAILS FOR WATERMAIN

- TOWN OF CANANDAIGUA -

TYPE OF UTILITY:
PIPE MATERIAL:
APPLICABLE PIPE SIZE:
TRENCH WIDTH:

TRENCH CONDITIONS: ROCK OR HARD PAN

BEDDING SPECIFICATION: SEE INSTRUCTIONS FOR DUCTILE IRON PIPE, BEDDING IN ROCK OR HARD PAN

BACKFILL SPECIFICATION: SEE INSTRUCTIONS FOR DUCTILE IRON PIPE, BACKFILL IN ROCK OR HARD PAN

TRENCH CONDITIONS: WET EARTH (3)

BEDDING SPECIFICATION: SEE INSTRUCTIONS FOR DUCTILE IRON PIPE, BEDDING IN WET EARTH

BACKFILL SPECIFICATION: SEE INSTRUCTIONS FOR DUCTILE IRON PIPE, BACKFILL IN WET EARTH

TYPE OF UTILITY:
PIPE MATERIAL:
APPLICABLE PIPE SIZE:
TRENCH WIDTH:

TRENCH CONDITIONS: SELECT EARTH

BEDDING SPECIFICATION: THE TRENCH-BOTTOM SHALL BE TRUE, EVEN, AND FREE FROM STONES, LARGE DIRT CLODS, OR ANY FROZEN MATERIAL WITH ANY DIMENSION GREATER THAN 1/2" PIPE TO BE BEDDED FROM BOTTOM OF TRENCH UP TO 12" ABOVE TOP OF PIPE WITH GRANULAR SAND MEETING THE STANDARDS OF NYSOT SPEC. 703.03. DEPRESSIONS SHALL BE PROVIDED IN THE TRENCH BOTTOM FOR PIPE BELLS AT EACH JOINT AND TO ALLOW FOR WITHDRAWAL OF PIPE SLINGS. THIS IS TO ASSURE THAT THE PIPE BARREL LIES FLAT ON THE TRENCH BOTTOM.

BACKFILL SPECIFICATION: ALL BACKFILL MATERIAL SHALL BE FREE FROM CINDERS, ASHES, REFUSE, VEGETABLE OR ORGANIC MATERIAL, BOULDER, ROCKS OR STONES, OR FROZEN MATERIAL AND ANYTHING HAVING A DIMENSION GREATER THAN 1/2" OR ANY OTHER MATERIAL THAT IN THE OPINION OF THE OWNER IS UNSUITABLE. SAFETY COVER MEASURING 12" DEEP SHALL BE PROVIDED ON TOP OF THE BEDDING MATERIAL AND SHALL MEET THE STANDARDS OF GRADATION FOR SELECT GRANULAR FILL (NYSOT SPEC. 203.06). EXCAVATED MATERIAL MAY BE USED FOR BACKFILL PROVIDED THAT SUCH MATERIAL CONSISTS OF LOAM, CLAY, SAND, GRAVEL, OR OTHER MATERIALS THAT IN THE OPINION OF THE OWNER ARE SUITABLE FOR BACKFILLING EXCEPT WITHIN THE LIMITS OF DEDICATED ROADWAYS.

BACKFILL BENEATH DEDICATED ROADWAYS TO BE FULL DEPTH TYPE 2 CRUSHER RUN STONE MEETING THE STANDARDS OF N'SDOT SPEC. 304.12.

THE BALANCE OF THE BACKFILL NEED NOT BE AS CAREFULLY SELECTED AS THE INITIAL MATERIAL. IT SHALL BE PLACED IN UNIFORM LAYERS IN SUCH A MANNER AS TO PROVIDE A UNIFORMLY DENSE BACKFILL LOAD ON THE PIPE AND AVOID UNFILLED SPACES IN THE BACKFILL. ROLLING EQUIPMENT SHALL NOT BE USED UNTIL A MINIMUM OF 18" OF BACKFILL MATERIAL COVER THE TOP OF THE PIPE.

REFER TO APPROPRIATE AGENCY FOR SANITARY SEWER BEDDING REQUIREMENTS

		TEST PRESSURE (P.S.I.)				
		200	225	250	275	300
D.I.P. PER 1,000 L.F. OF PIPE	PIPE DIA. (INCHES)	ALLOWABLE LEAKAGE (gal./hour)				
		6	8	10	12	14
8	6	0.64	0.68	0.71	0.75	0.78
	8	0.85	0.90	0.95	1.00	1.04
	10	1.06	1.13	1.19	1.24	1.30
	12	1.28	1.35	1.42	1.49	1.56
	8	0.57	0.61	0.64	0.67	0.70
	10	0.76	0.81	0.85	0.90	0.94
P.V.C. PER 1,000 L.F. OF PIPE	10	0.96	1.02	1.07	1.12	1.17
	12	1.15	1.22	1.28	1.34	1.40

NOTES:

1. TEST PRESSURE TO BE 200 P.S.I. OR 1.5 X WORKING PRESSURE, WHICHEVER IS GREATER.
2. PRESSURE TESTS SHALL BE CONDUCTED SO THE PIPE SECTIONS ARE WITHIN 10 PSI OF THE TEST PRESSURE LOCATION.
3. PRESSURE TESTS SHALL BE CONDUCTED FOR A MINIMUM OF 2 HOURS.
4. LEAKAGE TESTS AT LINE PRESSURE SHALL BE CONDUCTED OVER A 24 HOUR PERIOD.

WATERMAIN PRESSURE TEST

!! CALL !!

BEFORE YOU DIG, DRILL OR BLAST

1-800-962-7962 or 811

IN ACCORDANCE WITH DSNY (DIG SAFE, NEW YORK), CONTRACTORS MUST NOTIFY ALL UTILITIES IN THE AREA TWO (2) WORKING DAYS BEFORE EXCAVATION.

PIPE BEDDING DETAILS FOR STORM LINES

- TOWN OF CANANDAIGUA -

TYPE OF UTILITY:
PIPE MATERIAL:
APPLICABLE PIPE SIZE:

TRENCH WIDTH: MAX. O.D. + 24"

TRENCH CONDITIONS: SELECT EARTH

BEDDING SPECIFICATION: SEE INSTRUCTIONS FOR PVC SEWER PIPE, BEDDING IN SELECT EARTH AND SUBSTITUTE NO. 1 AND NO. 2 CRUSHED STONE MIXED EQUALLY FOR NO. 1 AND NO. 1A CRUSHED STONE.

BACKFILL SPECIFICATION: SEE INSTRUCTIONS FOR PVC SEWER PIPE, BACKFILL IN SELECT EARTH AND SUBSTITUTE NO. 1 AND NO. 2 CRUSHED STONE MIXED EQUALLY FOR NO. 1 AND NO. 1A CRUSHED STONE.

TRENCH CONDITIONS: ROCK OR HARD PAN

BEDDING SPECIFICATION: SEE INSTRUCTIONS FOR PVC, SEWER PIPE, BEDDING IN ROCK OR HARD PAN AND SUBSTITUTE NO. 1 AND NO. 2 CRUSHED STONE MIXED EQUALLY FOR NO. 1 AND NO. 1A CRUSHED STONE.

TRENCH CONDITIONS: WET EARTH

BEDDING SPECIFICATION: SEE INSTRUCTIONS FOR PVC, SEWER PIPE, BEDDING IN WET EARTH AND SUBSTITUTE NO. 1 AND NO. 2 CRUSHED STONE FOR NO. 1 AND NO. 1A CRUSHED STONE.

BACKFILL SPECIFICATION: SEE INSTRUCTIONS FOR PVC SEWER PIPE, BACKFILL IN EARTH AND SUBSTITUTE NO. 1 AND NO. 2 CRUSHED STONE FOR NO. 1 AND NO. 1A CRUSHED STONE.

TYPE OF UTILITY:
PIPE MATERIAL:
APPLICABLE PIPE SIZE:
TRENCH WIDTH:

TRENCH CONDITIONS: ROCK OR HARD PAN

BEDDING SPECIFICATION: A MINIMUM CUSHION OF 6" OF NO. 1 AND NO. 1A CRUSHED STONE (NYSOT GRADATION TABLE 703-4) SHALL BE USED WHEN EXCAVATING THROUGH ROCK OR HARD PAN. THE REMAINDER OF THE BEDDING INSTRUCTIONS SHALL BE AS THOSE FOR BEDDING IN SELECT EARTH.

BACKFILL SPECIFICATION: SEE INSTRUCTIONS FOR PVC SEWER PIPE, BACKFILL IN SELECT EARTH

TRENCH CONDITIONS: WET EARTH

BEDDING SPECIFICATION: IN ADDITION TO THE BEDDING REQUIRED FOR PVC SEWER PIPE IN SELECT EARTH, AN ADDITIONAL 6" OF NO. 2 AND NO. 3 CRUSHED STONE (NYSOT GRADATION TABLE 703-4) MIXED EQUALLY SHALL BE INSTALLED TO SUPPORT THE SPECIFIED BEDDING MATERIAL, 2" OR NO. 1 AND NO. 1A CRUSHED STONE.

BACKFILL SPECIFICATION: SEE INSTRUCTIONS FOR PVC SEWER PIPE, BACKFILL IN SELECT EARTH

TYPE OF UTILITY:
PIPE MATERIAL:
APPLICABLE PIPE SIZE:
TRENCH WIDTH:

TRENCH CONDITIONS: SELECT EARTH

BEDDING SPECIFICATION: THE TRENCH BOTTOM SHALL BE TRUE, EVEN, AND FREE OF LARGE STONES, LARGE DIRT CLODS, AND ANY OTHER FROZEN MATERIAL AS APPROVED BY THE ENGINEER. A MINIMUM OF THREE (3) INCHES OF NO. 1 AND NO. 1A CRUSHED STONE MIXED EQUALLY (NYSOT GRADATION TABLE 703-4) SHALL BE INSTALLED AND TAMPED TO PROVIDE SATISFACTORY BEDDING FOR THE PIPE WHICH IS FIRM AND GIVES CONTINUOUS SUPPORT OF THE PIPE BARREL. DEPRESSIONS SHALL BE FOLLOWED IN THE TRENCH BOTTOM FOR PIPE BELLS AT ALL JOINTS IN THIS GRANULAR LIFT.

BACKFILL SPECIFICATION: INITIAL BACKFILL FROM THE TOP OF THE PIPE BEDDING MATERIAL TO THE SPRING LINE OF THE PIPE SHALL CONSIST OF NO. 1 AND NO. 1A CRUSHED STONE (NYSOT GRADATION TABLE 703-4) MIXED EQUALLY.

FROM THE SPRING LINE OF THE PIPE TO 12" ABOVE THE TOP OF THE PIPE APPROVED SELECT BACKFILL MATERIAL, FREE OF LARGE STONES, DIRT CLODS, OR FROZEN MATERIAL WITH ANY DIMENSION GREATER THAN 1-1/2" SHALL BE INSTALLED.

THE REMAINDER OF THE BACKFILL MATERIAL NEED NOT BE AS CAREFULLY SELECTED AS THE INITIAL BACKFILL. LARGE STONES SHALL BE AVOIDED THAT COULD DAMAGE THE INSTALLED PIPE WHEN DROPPED OR WHEN FORCE THROUGH THE SOIL CUSHION OF THE INITIAL BACKFILL.



STAMP

NO.	DATE	DESCRIPTION	BY	DATE
1		CONSTRUCTION	REVISION	

SITE DEVELOPMENT PLANS PREPARED FOR:
SUNSET RIDGE ESTATES/LAKENWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT
SHOWING LAND IN:
3335 STATE ROUTE 847/000 COUNTY ROAD 18
TOWN OF CANANDAIGUA/HOHEWELL
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE
NOTES
DRAWN BY: XXX
DESIGNED BY: XXX
CHECKED BY: BAM
SCALE: AS NOTED
JOB NO: 2020
DATE: 02/01/2022
TAX MAP NO: 86.01-2-010

C002

LEGEND

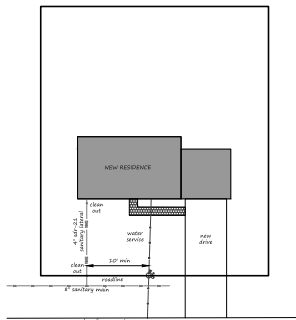
	POLE
	HYDRANT
	MONUMENT
	SIGN

ANGELO LICCIARDELLO
8242 EAST BLUFF DRIVE
PENN YAN, NEW YORK 14527

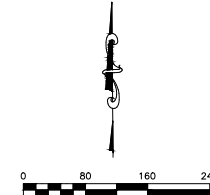
CURVE	RADIUS	ARC LENGTH	CURVE LENGTH	CURVE BEARING	DELTA ANGLE
C1	180.00	11.80	11.80	N05°13'30"	2°40'18"
C2	75.00	15.70	15.70	N11°02'00"	1°13'30"
C3	75.00	15.70	15.70	N11°02'00"	1°13'30"
C4	75.00	15.70	15.70	N11°02'00"	1°13'30"
C5	75.00	15.70	15.70	N11°02'00"	1°13'30"
C6	75.00	15.70	15.70	N11°02'00"	1°13'30"
C7	180.00	11.80	25.65	N05°14'00"	0°10'42"
C8	2519.71	10.84	25.65	N05°14'00"	0°10'42"
C9	2519.71	60.41	60.41	N01°26'00"	1°01'26"
C10	30.00	42.84	39.28	S43°05'15"	1°01'26"
C11	30.00	42.84	39.28	S43°05'15"	1°01'26"
C12	75.00	26.28	26.28	S43°05'15"	2°07'42"
C13	75.00	26.28	26.28	S43°05'15"	2°07'42"
C14	75.00	26.28	26.28	S43°05'15"	2°07'42"
C15	75.00	26.28	26.28	S43°05'15"	2°07'42"
C16	75.00	26.28	26.28	S43°05'15"	2°07'42"
C17	75.00	26.28	26.28	S43°05'15"	2°07'42"
C18	75.00	26.28	26.28	S43°05'15"	2°07'42"
C19	75.00	26.28	26.28	S43°05'15"	2°07'42"
C20	75.00	26.28	26.28	S43°05'15"	2°07'42"
C21	75.00	26.28	26.28	S43°05'15"	2°07'42"
C22	75.00	26.28	26.28	S43°05'15"	2°07'42"
C23	75.00	26.28	26.28	S43°05'15"	2°07'42"
C24	75.00	26.28	26.28	S43°05'15"	2°07'42"
C25	75.00	26.28	26.28	S43°05'15"	2°07'42"
C26	75.00	26.28	26.28	S43°05'15"	2°07'42"
C27	75.00	26.28	26.28	S43°05'15"	2°07'42"
C28	75.00	26.28	26.28	S43°05'15"	2°07'42"
C29	75.00	26.28	26.28	S43°05'15"	2°07'42"
C30	75.00	26.28	26.28	S43°05'15"	2°07'42"
C31	75.00	26.28	26.28	S43°05'15"	2°07'42"
C32	75.00	26.28	26.28	S43°05'15"	2°07'42"
C33	75.00	26.28	26.28	S43°05'15"	2°07'42"
C34	75.00	26.28	26.28	S43°05'15"	2°07'42"
C35	75.00	26.28	26.28	S43°05'15"	2°07'42"
C36	75.00	26.28	26.28	S43°05'15"	2°07'42"
C37	75.00	26.28	26.28	S43°05'15"	2°07'42"
C38	75.00	26.28	26.28	S43°05'15"	2°07'42"
C39	75.00	26.28	26.28	S43°05'15"	2°07'42"
C40	75.00	26.28	26.28	S43°05'15"	2°07'42"
C41	75.00	26.28	26.28	S43°05'15"	2°07'42"
C42	75.00	26.28	26.28	S43°05'15"	2°07'42"
C43	75.00	26.28	26.28	S43°05'15"	2°07'42"
C44	75.00	26.28	26.28	S43°05'15"	2°07'42"
C45	75.00	26.28	26.28	S43°05'15"	2°07'42"
C46	75.00	26.28	26.28	S43°05'15"	2°07'42"
C47	75.00	26.28	26.28	S43°05'15"	2°07'42"
C48	75.00	26.28	26.28	S43°05'15"	2°07'42"
C49	75.00	26.28	26.28	S43°05'15"	2°07'42"
C50	75.00	26.28	26.28	S43°05'15"	2°07'42"
C51	75.00	26.28	26.28	S43°05'15"	2°07'42"
C52	75.00	26.28	26.28	S43°05'15"	2°07'42"
C53	75.00	26.28	26.28	S43°05'15"	2°07'42"
C54	75.00	26.28	26.28	S43°05'15"	2°07'42"
C55	75.00	26.28	26.28	S43°05'15"	2°07'42"
C56	75.00	26.28	26.28	S43°05'15"	2°07'42"
C57	75.00	26.28	26.28	S43°05'15"	2°07'42"
C58	75.00	26.28	26.28	S43°05'15"	2°07'42"
C59	75.00	26.28	26.28	S43°05'15"	2°07'42"
C60	75.00				

LINE	BEARING	DISTANCE
L1	N90°00'00" W	9.92'
L2	N90°00'00" W	9.92'
L3	N72°21'45" E	31.25'
L4	N72°21'45" E	43.32'
L5	N72°21'45" E	58.62'
L6	S21°03'51" W	4.55'
L7	N90°00'00" W	19.84'
L8	N71°16'18" W	22.50'
L9	S69°52'37" W	1.45'
L10	S44°44'05" E	24.83'
L11	N69°52'37" E	1.60'
L12	N90°00'00" E	46.20'

NOTE: IT IS THE POLICY OF THIS STATE AND THE TOWN OF CANANDAIGUA TO CONSERVE, PROTECT AND ENCOURAGE THE DEVELOPMENT AND IMPROVEMENT OF AGRICULTURAL LAND FOR THE PRODUCTION OF FOOD AND OTHER PRODUCTS AND ALSO FOR ITS NATURAL ECOLOGICAL VALUE. THIS NOTICE IS TO INFORM PROSPECTIVE RESIDENTS THAT THE PROPERTY THAT THEY ARE ABOUT TO ACQUIRE LIES PARTIALLY OR WHOLLY IN OR WITHIN 500 FEET OF EITHER AN AGRICULTURAL DISTRICT OR LAND FOR WHICH AN INDIVIDUAL COMMITMENT HAS BEEN RECEIVED FROM THE STATE OF NEW YORK. THE 300 FEET AGRICULTURE AND MARKETS LAW OF THE STATE OF NEW YORK AND THAT FARMING ACTIVITIES OCCUR IN SUCH DISTRICT OR LAND, SUCH FARMING ACTIVITIES MAY INCLUDE, BUT NOT LIMITED TO, ACTIVITIES THAT CAUSE NOISE, DUST, AND ODORS.



1 TYPICAL LOT CONNECTION
1"=30'



PRELIMINARY
NOT FOR CONSTRUCTION

[illegible]

SITE DEVELOPMENT PLANS PREPARED FOR:
**SUNSET RIDGE ESTATES/LAKEWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT**
SHOWING LAND IN:
3535 STATE ROUTE 364 /0000 COUNTY ROAD 18
TOWN OF CANANDAIGUA/HOPEWELL
COUNTY OF ONTARIO

DRAWN BY:	KRB
DESIGNED BY:	RAM
CHECKED BY:	DMP
SCALE:	AS NOTED
JOB NO.:	20-243
DATE:	02/01/2022
TAX MAP#:	98.19-1-20.10

PLAT

1. THE INTENT OF THIS PLAN IS TO SUBDIVIDE TAX MAP NO. 98.19-1-20.10 INTO THIRTY ONE LOTS.
2. DEED L1487 P.200
3. PARCEL IS ZONED R-1=20 RESIDENTIAL 20,000 SQ.FT.
4. MAP: 36449, 34993, 27555
5. PARCEL IS BEING OFFERED FOR CAROL L. EFFERT, 3535 EAST LAKE ROAD, CANANDAIGUA BY YEARS BOUNDARY, DATED OCTOBER 6, 2020, FILE NO. 169953
6. THIS MAP IS BEING FILED TO CORRECT A MISTAKE THAT AN UNDATED SEARCH OF TITLE MAY REVEAL
7. THE PARCEL IS OWNED BY NEW YORK STATE PLANE, NAD83, NEW YORK CENTRAL
8. VERTICAL DATUM: NAVD83, GCG NGS2018
9. MAP OF CANANDAIGUA LAKE COUNTY SHERIFF DISTRICT RECORD MAP SHEET NO. 39, PROJECT NO. 16-36-177 HERSH, MALDON AND PLANNED, DATED OCTOBER 1975
10. REINFORCING ROD MONUMENTS TO BE SET AT ALL BOUNDARY CORNERS UPON FINAL APPROVAL OF

A. THAT THE PROPOSED FACILITIES FOR WATER SUPPLY AND SEWAGE COLLECTION AND/OR TREATMENT SHALL BE INSTALLED IN CONFORMITY WITH SAID PLANS.
B. THAT NO LOT OR REMAINING LAND SHALL BE SUBDIVIDED WITHOUT PLANS FOR SUCH RESUBDIVISION BEING SUBMITTED TO AND APPROVED BY THE NYSDOH GENEVA DISTRICT OFFICE.
C. THAT PLAN APPROVAL IS LIMITED TO 5 YEARS FROM THE APPROVAL DATE. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE NYSDOH GENEVA DISTRICT OFFICE. ANY SUCH EXTENSION SHALL BE GRANTED ONLY IF THE APPLICANT CAN DEMONSTRATE EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
D. THAT THE APPROVED PLANS MUST BE FILED WITH THE COUNTY CLERK PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 90 DAYS OF THE DATE OF PLAN APPROVAL.
E. THAT ALL LOCAL AND STATE AGENCY RULES AND REGULATIONS SHALL BE COMPLIED

TOWN ENGINEER _____ DATE _____

I CERTIFY THAT THIS PLAN WAS PREPARED
FEBRUARY 1, 2022 FROM NOTES OF AN
INSTRUMENT SURVEY COMPLETED MARCH 1, 2021
AND FROM MATERIALS REFERENCED HEREON.

DAVID M. PARRINELLO NYSPLS 049724

LEGEND

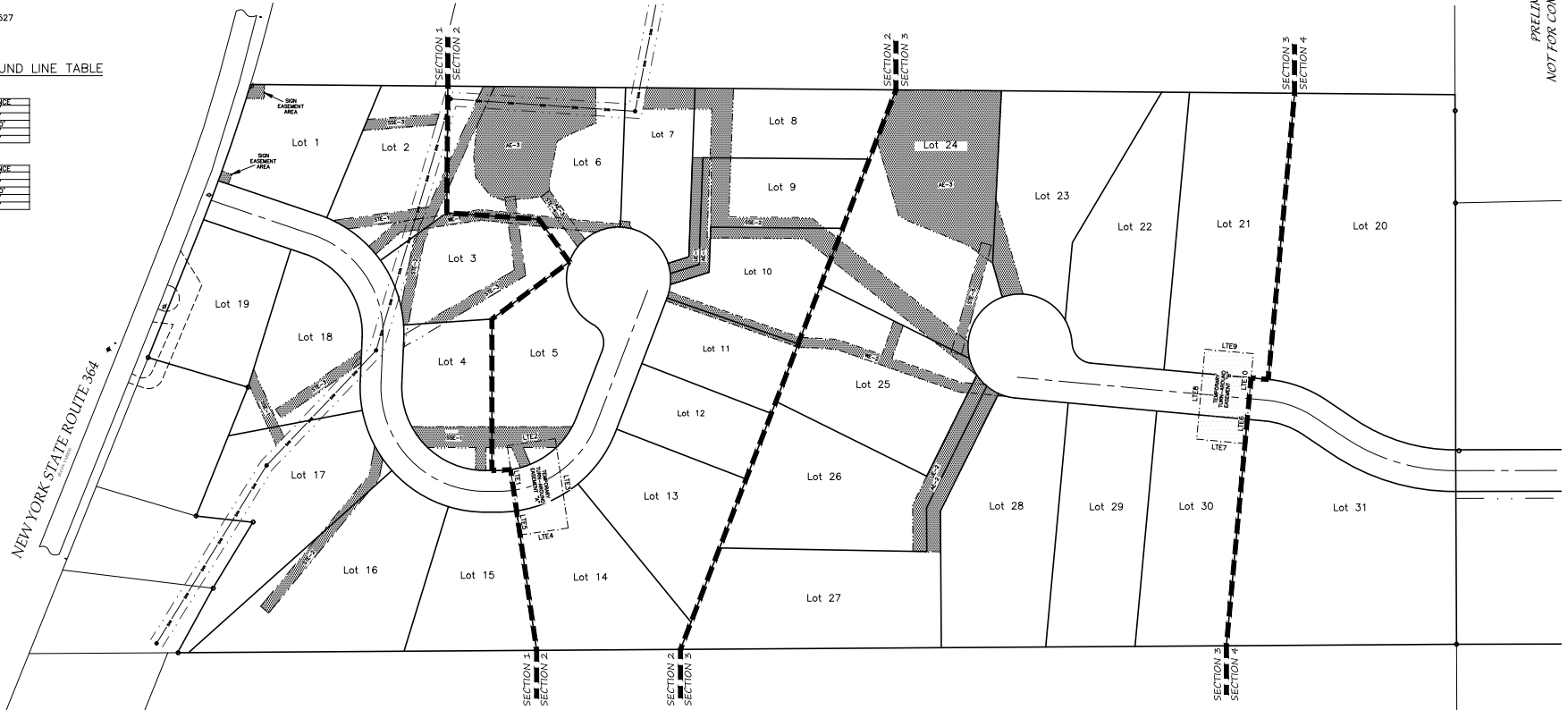
- POLE
HYDRANT
MONUMENT
SSE # - PROPOSED SANITARY SEWER EASEMENT
SSE # - PROPOSED SANITARY SEWER EASEMENT
WE # - PROPOSED WATER LINE EASEMENT
AE # - PROPOSED ACCESS EASEMENT
U3 # - UTILITY LINE EASEMENT

OWNER:
TAX MAP NO. 98.19-1-20.10
ANGELO LICCIARDELLO
8242 EAST BLUFF DRIVE
PENN YAN, NEW YORK 14527

TEMP. TURN-AROUND LINE TABLE

EASEMENT "A"		
LINE	BEARING	DISTANCE
LINE 1	N 89°14'11"W	72.00'
LINE 2	N 1°49'11"E	72.00'
LINE 3	S 89°14'11"W	120.00'
LINE 4	S 89°14'11"W	120.00'
LINE 5	N 89°14'11"W	72.00'

EASEMENT "B"		
LINE	BEARING	DISTANCE
LINE 1	S 22°15'55"W	65.00'
LINE 2	S 22°15'55"W	65.00'
LINE 3	N 22°15'55"E	100.00'
LINE 4	N 22°15'55"E	100.00'
LINE 5	S 22°15'55"W	65.00'



NOTES & REFERENCES

- THE INTENT OF THIS PLAN IS TO SUBDIVIDE TAX MAP NO. 98.19-1-20.10 INTO THIRTY ONE LOTS.
- DEED L1487 P.200
- PARCEL IS ZONED R-1-20 RESIDENTIAL 20,000 SQ.FT.
- MAP 36449, 34903, 27555
- MAP OF SURVEY PREPARED FOR CAROL L. EIFFERT, 3535 EAST LAKE ROAD, CANANDAIGUA BY YEARS BOUNDARY, DATED OCTOBER 6, 2020, FILE NO. 1966953
- THIS PLAN IS SUBJECT TO ANY EASEMENTS OR ENCUMBRANCES THAT AN UPDATED SEARCH OF TITLE MAY REVEAL.
- HORIZONTAL DATUM: NEW YORK STATE PLANE, NAD83, NEW YORK CENTRAL
- VERTICAL DATUM: NAVD88, GEOID NGS2016
- MAP OF CANANDAIGUA LAKE COUNTY SEWER DISTRICT RECORD MAP, SHEET NO. 39, PROJECT NO. C-36-841 BY HERSHEY, MALONE AND ASSOCIATES, DATED OCTOBER 1975
- REINFORCING ROD MONUMENTS TO BE SET AT ALL BOUNDARY CORNERS UPON FINAL APPROVAL OF SUBDIVISION.

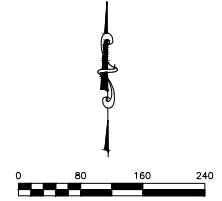
I CERTIFY THAT THIS PLAN WAS PREPARED
FEBRUARY 1, 2022 FROM NOTES OF AN
INSTRUMENT SURVEY COMPLETED MARCH 1, 2021
AND FROM MATERIALS REFERENCED HEREON.

DAVID M. PARRINELLO NYSPLS 049724

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE



PRELIMINARY
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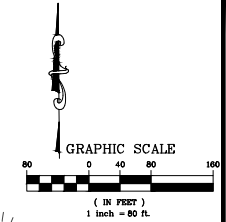


REVISIONS		
NO.	DATE	DESCRIPTION OF REVISION

SITE DEVELOPMENT PLANS PREPARED FOR:
SUNSET RIDGE ESTATES/LAKEWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT
SHOWING LAND IN
3535 STATE ROUTE 18, CANANDAIGUA, NY 14527
TOWN OF CANANDAIGUA/HOPKINSON
COUNTY OF ONTARIO STATE OF NEW YORK

DRAWING TITLE	
EASEMENT PLAN	
DRAWN BY:	KMB
DESIGNED BY:	BAM
CHECKED BY:	DMF
SCALE:	AS NOTED
JOB NO.:	20-201
DATE:	02/09/2022
TAX MAP:	98.19-1-20.10
EASEMENT	

DESIGNATION	DIA. OF PIPE Do	3Do	La	W	SIZE
DA	12"	3'	4'	5'	5 SY
DB	24"	6'	9'	11'	9 SY
DC	36"	9'	13'	16'	18 SY
DD	15"	3.75'	6'	7.3'	5 SY
DE	15"	3.75'	6'	7.3'	5 SY
DF	12"	3'	4'	5'	5 SY



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STAMP

[illegible]

SUNSET RIDGE ESTATES / LAKEWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT

SHOWING LAND IN:
3335 STATE ROUTE 364 / 0000 COUNTY ROAD 18
TOWN OF CANANDAIGUA / HOPEWELL

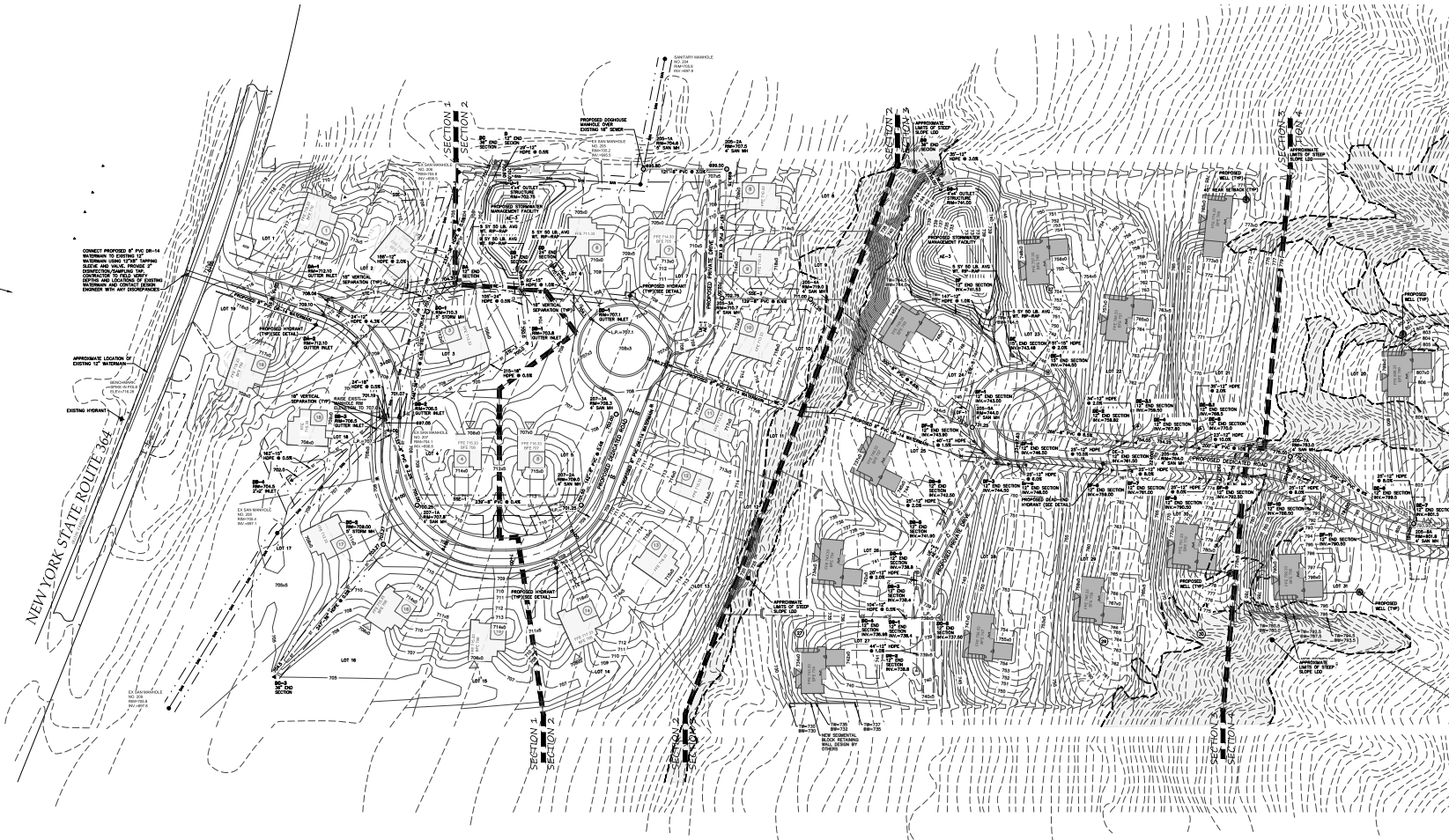
COUNTY OF ONTARIO

SITE DEVELOPMENT PLANS PREPARED FOR:

STATE OF NEW YORK

DRAWING TITLE:	
OVERALL UTILITY	
DRAWN BY:	JWJ
DESIGNED BY:	JWJ
CHECKED BY:	RAM
SCALE:	AS NOTED
JOB NO.:	20-243
DATE:	02/01/2022
TAX MAP#:	98.19-1-20.10

C200



1 UTILITY PLAN
1"=80'

WATER/HIGHWAY SUPERINTENDENT _____ DATE _____

PLANNING BOARD CHAIRMAN	DATE
-------------------------	------

TOWN ENGINEER DATE

LEGEND

Iron pin or pipe found

Benchmark

Utility pole

Hydrant

Light pole

EXISTING

PROPOSED

Utility Lines
R.O.W. line

Property line

Accession line

Centerline

Drainage

Fence Line

Contour Line

ABBREVIATIONS

EXISTING

CO-CORRUGATED POLYETHYLENE PIPE

20" DIAMETER

20" SCH-40S STEEL CORRU-GATED

24" KATHLENE PIPE

USE UNDERGROUND

CONCRETE

GO - CLEAR OUT

RADIUS

BC - BOTTOM OF CURB

TC - TOP OF CURB

BM - TOP OF WALL

BN - BOTTOM OF WALL

BT - BOTTOM OF STAIRS

PERF - PERFORATED

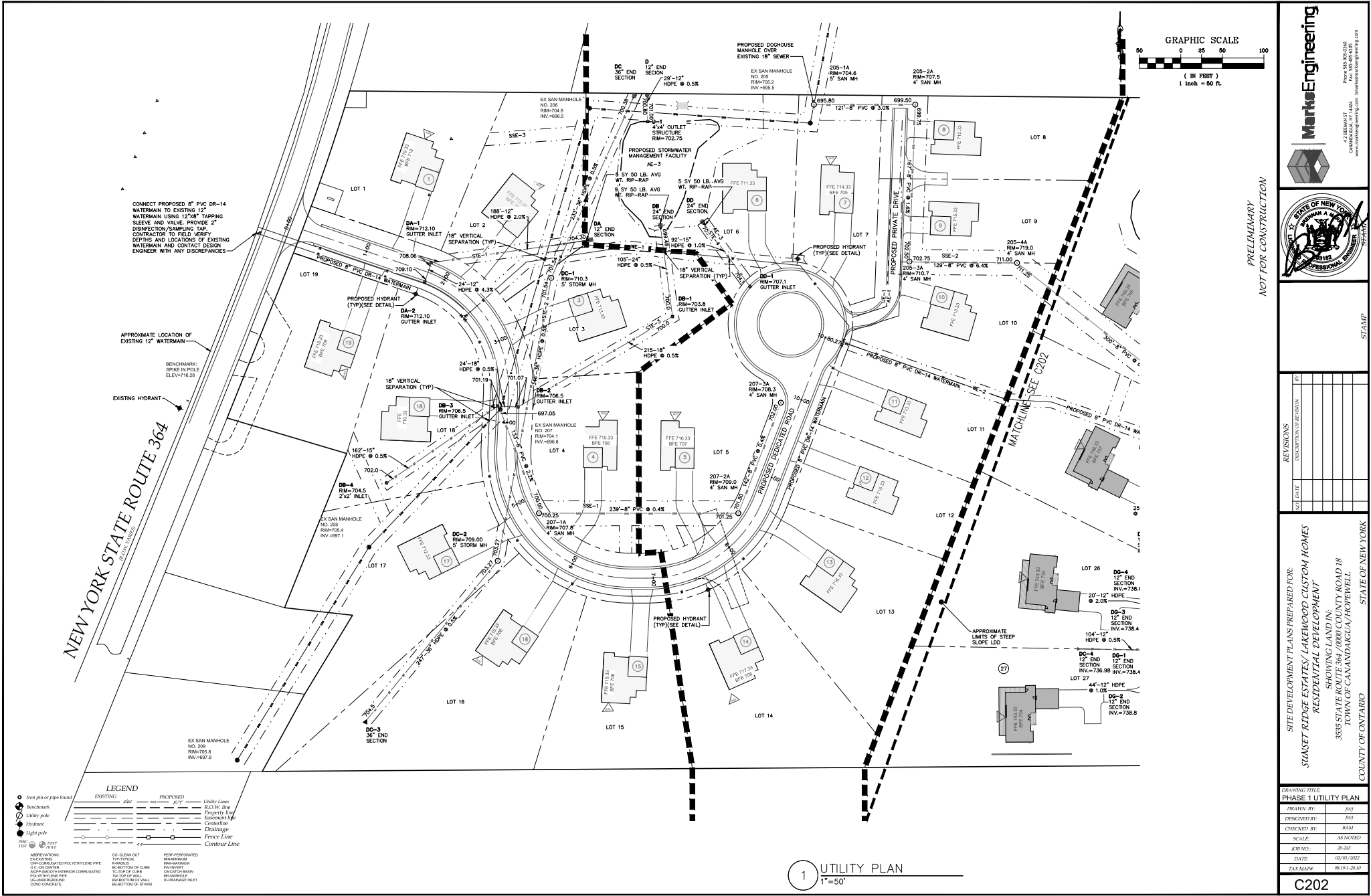
MIN - MINIMUM

MAX - MAXIMUM

CH - CHAIN

CP - CATCH BASIN

CG - CATCH PILE



Markus Engineering

4.2 BEDMAN ST
CANTON, NY 14424
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Phone: 585-940-0362
Fax: 585-940-0363

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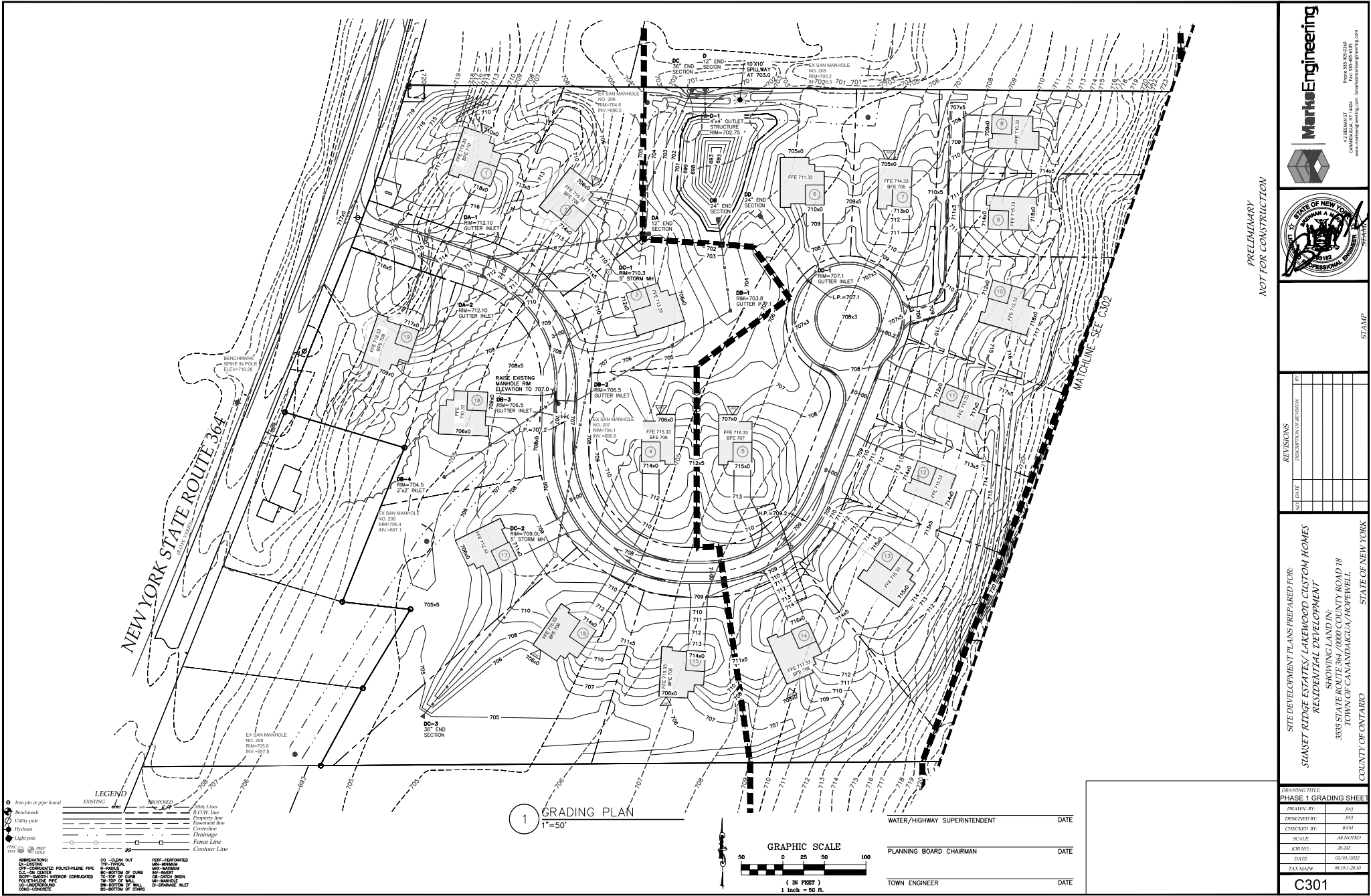
REVISIONS	
NO.	DATE
1	02/05/2022

SITE DEVELOPMENT PLANS PREPARED FOR:
**SUNSET RIDGE ESTATES/LAKWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT**
SHOWING LAND IN
3835 STATE ROUTE 364 / 1000 COUNTY ROAD 18
TOWN OF CANANDAIGUA/HORSEWELL
COUNTY OF ONTARIO STATE OF NEW YORK

DRAWING TITLE:
PHASE 1 UTILITY PLAN

DRAWN BY:	JH
DESIGNED BY:	JH
CHECKED BY:	RAM
SCALE:	AS NOTED
APP NO.:	20-261
DATE:	02/05/2022
TAX MAP#:	88-09-30-00

C202



PRELIMINARY
NOT FOR CONSTRUCTION

STAMP

REVISIONS	
NO.	DATE

SITE DEVELOPMENT PLANS PREPARED FOR:
**SUNSET RIDGE ESTATES/ LAKEWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT**
SHOWING LAND IN:
3335 STATE ROUTE 364 / 0000 COUNTY ROAD 18
TOWN OF CANANDAIGUA/HOTELWELL
COUNTY OF ONTARIO STATE OF NEW YORK

DRAWING TITLE:
PHASE 1 GRADING SHEET

DESIGNED BY:	DATE:
JW	

CHECKED BY:	DATE:
RAM	

SCALE:	AS NOTED
20'-0"	

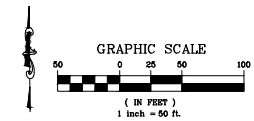
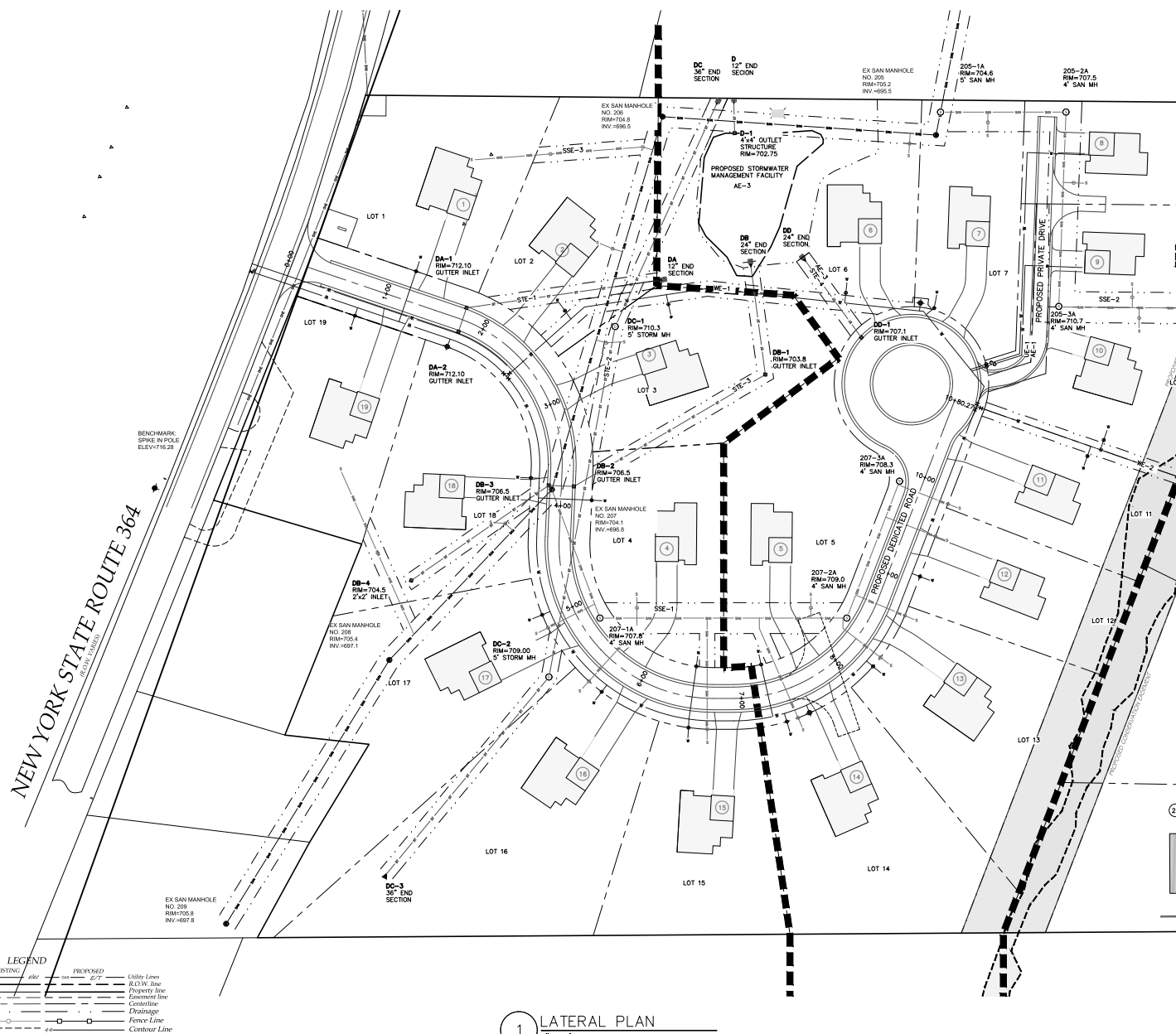
DATE:	DATE:
02/05/2022	

TAX MAP:	DATE:
08-29-2010	

C301

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Phone: 585-945-0300
Fax: 585-945-0301
markus@markus-engineering.com



PRELIMINARY
NOT FOR CONSTRUCTION

[illegible]

SITE DEVELOPMENT PLANS PREPARED FOR:
**SIANSET RIDGE ESTATES/ LAKEWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT**
SHOWING LAND IN:
3535 STATE ROUTE 364 / 10000 COUNTRY ROAD 18
TOWN OF CANANDAIGUA / HONEWELL
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE: PHASE 1 LATERAL PLAN	
DRAWN BY:	JWJ
DESIGNED BY:	JWJ
CHECKED BY:	RAM
SCALE:	AS NOTED
JOB NO.:	20-243
DATE:	02/01/2022
TAX MAP#:	98.19-1-20.10

C400

[illegible]

Profile view of Road A showing vertical alignment, existing and proposed grades, and manhole locations. The vertical axis represents elevation in feet (695 to 725), and the horizontal axis represents stationing (0+00 to 5+50).

Key features and data points:

- Vertical Curve Data:**
 - Low Point STA: 4+06.00, K = 40.00
 - Vertical Curve Length: 150.00 VC
 - PVI STA: 3+50.00
 - PVI STA: 4+145.00
 - PVI STA: 4+28.00
 - PVI STA: 4+28.00
- Grades:**
 - Existing Grade: -0.2%
 - Proposed Grade: -3.25%
 - Proposed 8" PVC Dr-14 Watermain: -2.2%
 - Proposed 8" PVC: -0.45%
- Manhole Locations:**
 - Approximate Location Existing 18" AC Sanitary Sewer
 - Approximate Location Proposed 12" Hope
 - Approximate Location Proposed 18" Hope
 - Approximate Location Proposed 8" PVC
 - Approximate Location Proposed 239-8" PVC @ 0.45%
 - Approximate Location Proposed 207-1A
- Other Features:**
 - Edge of Pavement (Right Side) STA: 0+00, EL: 717.0
 - Edge of Pavement (Left Side) STA: 0+00, EL: 717.0
 - 18" Minimum Separation
 - 13'-2" Separation
 - Existing Manhole

Horizontal Scale = 1:50
Vertical Scale = 1:5

ROAD A

Horizontal Scale = 1:50
Vertical Scale = 1:5

[illegible]

STAMP

[illegible]

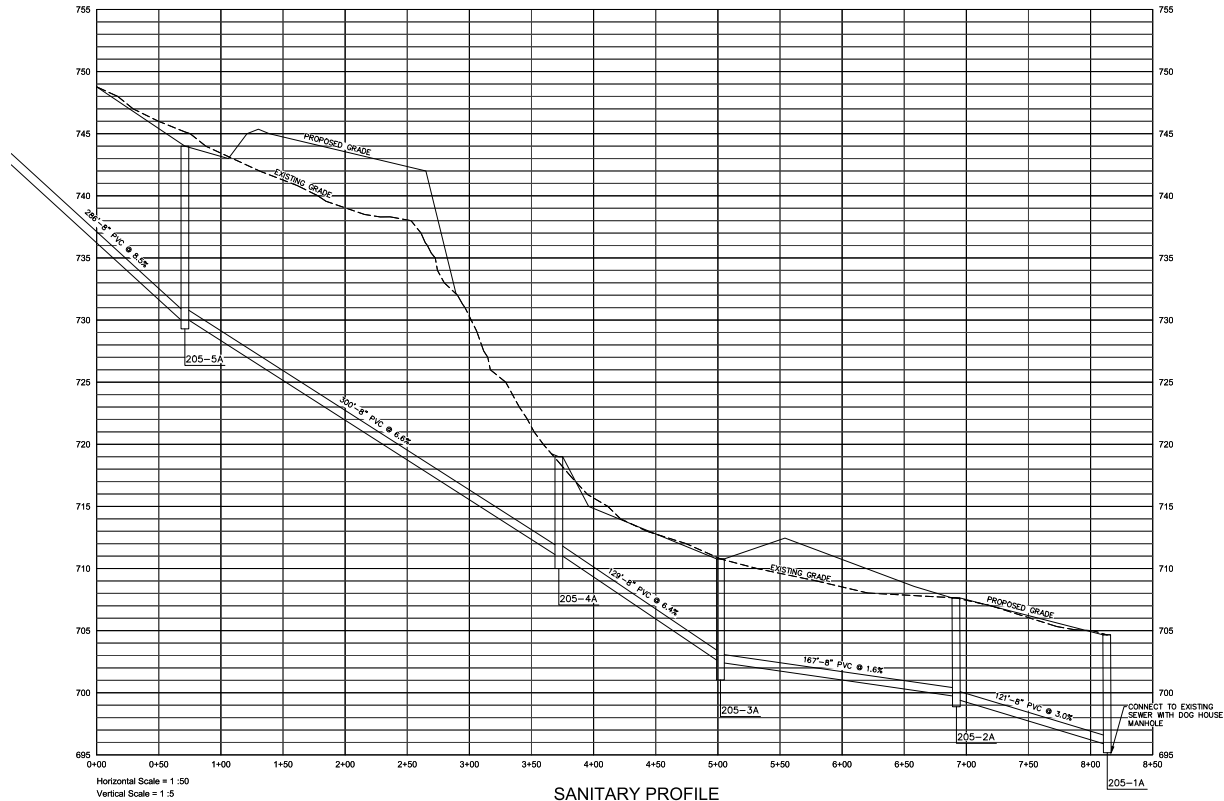
SITE DEVELOPMENT PLANS PREPARED FOR:
SUNSET RIDGE ESTATES/ LAKEWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT

SHOWING LAND IN:
3335 STATE ROUTE 364 /10000 COUNTY ROAD 18
TOWN OF CANANDAIGUA/HOWELL
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
PROFILE SHEET

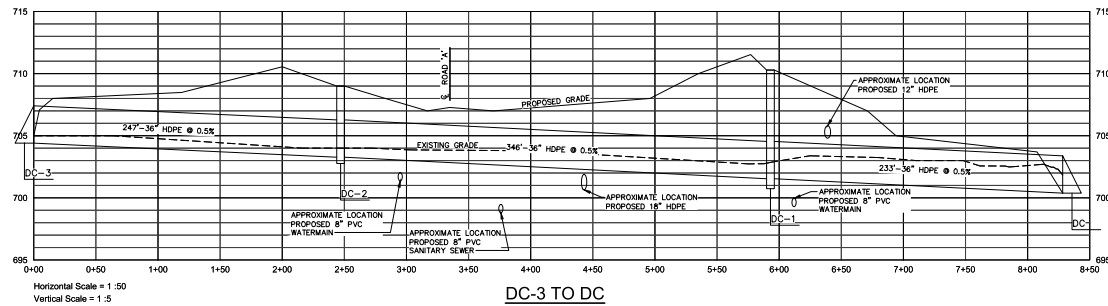
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DESIGNED BY:	JWJ
CHECKED BY:	RAM
SCALE:	AS NOTED
JOB NO.:	20-243
DATE:	02/01/2022
TAX MAP#:	98.19-1-20.10

C500



SANITARY PROFILE

Horizontal Scale = 1:50
Vertical Scale = 1:5



DC-3 TO DC

Horizontal Scale = 1:50
Vertical Scale = 1:5

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CARLETON PLACE
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STAMP

NO.	DATE	REVISIONS	BY
1		DISCREPANCY RESOLVED	
2			
3			
4			
5			

SITE DEVELOPMENT PLANS PREPARED FOR:
SUNSET RIDGE ESTATES / LAKEWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT
SHOWING LAND IN
3335 STATE ROUTE 84 / 1000 COUNTY ROAD 18
TOWN OF CANANDAIGUA / HOPWELL
COUNTY OF ONTARIO STATE OF NEW YORK

DRAWING TITLE
PROFILE SHEET

DRAWN BY:	JHJ
DISCUSSED BY:	JHJ
CHECKED BY:	BAM
SCALE:	AS NOTED
APPNO.:	20-261
DATE:	02/05/2022
TAX MAP#:	08-09-1-30.00

C501

PIPE SIZE (INCHES)	40'	45'	22.5'	11.25'	5.625'	2.8125'
REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING
4	13.75	17.45	8.75	4.375	2.1875	1.09375
6	22.75	29.15	14.75	7.375	3.6875	1.84375
8	33.75	43.15	21.75	10.875	5.4375	2.71875
10	44.75	58.15	28.75	14.375	7.2375	3.61875

NOTES:

1. RECOMMENDED RESTRAINED LENGTHS FOR STRAIGHT TIE ASSUME A MINIMUM 10' LENGTH OF PIPE ATTACHED TO EACH SIDE OF THE JOINT.
2. SEE ONLY INDICATES RESTRAINT AT THE BRANCH ONLY.
3. ALL BENDS (DEGREE CHANGES) ARE CALCULATED AS HORIZONTAL.
4. DEAD-END SERVICE CONSTITUTES CAPS, PLUGS, VALVES AND HYDRANTS.

HORIZONTAL BEND RESTRAINT

PIPE SIZE (INCHES)	40'	45'	22.5'	11.25'	5.625'	2.8125'
REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING
4	35.75	45.75	22.75	11.375	5.6875	2.84375
6	45.75	59.75	29.75	14.875	7.4375	3.71875
8	55.75	69.75	35.75	17.875	8.9375	4.46875
10	65.75	79.75	41.75	20.875	10.4375	5.21875

NOTES:

1. ALL BENDS (DEGREE CHANGES) ARE CALCULATED AS VERTICAL. THE FIRST RESTRAINED LENGTH (FRL) IS FOR THE HIGH-SIDE BEND (H) AND THE SECOND RESTRAINED LENGTH (SRL) INDICATES THE LOW-SIDE BEND (L) LENGTHS ARE CALCULATED USING A CONSTANT 5' FOOT DEPTH OF COVER FOR THE WATERMAIN.

VERTICAL BEND RESTRAINT

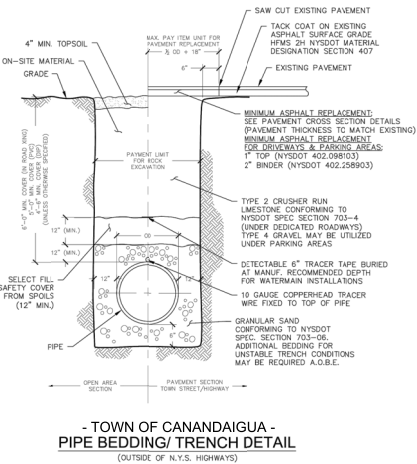
PIPE SIZE (INCHES)	40'	45'	22.5'	11.25'	5.625'	2.8125'
REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING
4	35.75	45.75	22.75	11.375	5.6875	2.84375
6	45.75	59.75	29.75	14.875	7.4375	3.71875
8	55.75	69.75	35.75	17.875	8.9375	4.46875
10	65.75	79.75	41.75	20.875	10.4375	5.21875

PIPE SIZE (INCHES)	40'	45'	22.5'	11.25'	5.625'	2.8125'
REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING
4	35.75	45.75	22.75	11.375	5.6875	2.84375
6	45.75	59.75	29.75	14.875	7.4375	3.71875
8	55.75	69.75	35.75	17.875	8.9375	4.46875
10	65.75	79.75	41.75	20.875	10.4375	5.21875

NOTES:

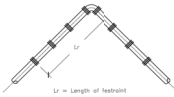
1. RECOMMENDED RESTRAINED LENGTHS FOR STRAIGHT TIE ASSUME A MINIMUM 10' LENGTH OF PIPE ATTACHED TO EACH SIDE OF THE JOINT.
2. SEE ONLY INDICATES RESTRAINT AT THE BRANCH ONLY.
3. ALL BENDS (DEGREE CHANGES) ARE CALCULATED AS HORIZONTAL.
4. DEAD-END SERVICE CONSTITUTES CAPS, PLUGS, VALVES AND HYDRANTS.

- TOWN OF CANANDAIGUA - MECHANICAL JOINT PIPE RESTRAINTS

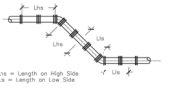


- TOWN OF CANANDAIGUA - PIPE BEDDING/TRENCH DETAIL

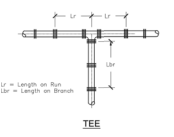
(OUTSIDE OF N.Y.S. HIGHWAYS)



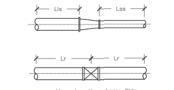
HORIZONTAL BEND



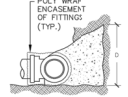
VERTICAL DOWN BEND AND OFFSET



TEE



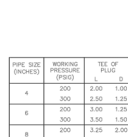
TEE



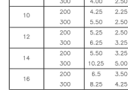
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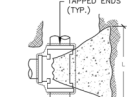
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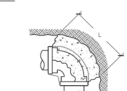
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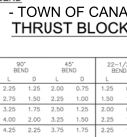
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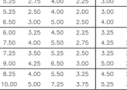
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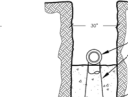
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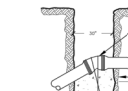
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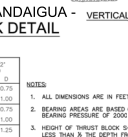
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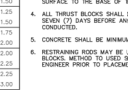
TEE



TEE



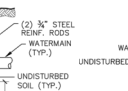
TEE



TEE



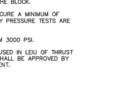
TEE



TEE



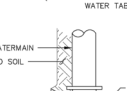
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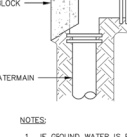
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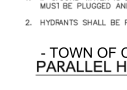
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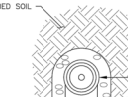
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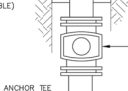
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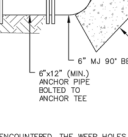
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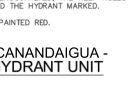
TEE



TEE



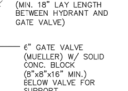
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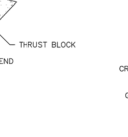
TEE



TEE



TEE



TEE



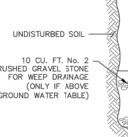
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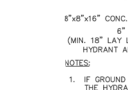
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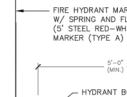
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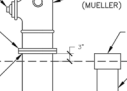
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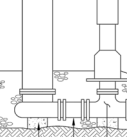
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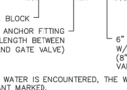
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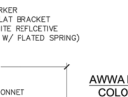
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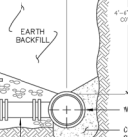
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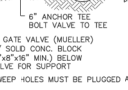
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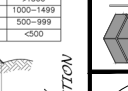
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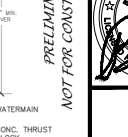
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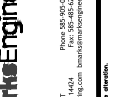
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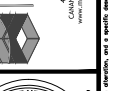
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PIPE SIZE (INCHES)	40'	45'	22.5'	11.25'	5.625'	2.8125'
REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING	REINFORCING
4	35.75	45.75	22.75	11.375	5.6875	2.84375
6	45.75	59.75	29.75	14.875	7.4375	3.71875
8	55.75	69.75	35.75	17.875	8.9375	4.46875
10	65.75	79.75	41.75	20.875	10.4375	5.21875

NOTES:

1. ALL DIMENSIONS ARE IN FEET.
2. BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. HEIGHT OF THRUST BLOCK SHOULD BE EQUAL TO OR LESS THAN 1/2 THE DEPTH FROM THE GROUND SURFACE TO THE BASE OF THE BLOCK.
4. ALL THRUST BLOCKS SHALL CURE A MINIMUM OF SEVEN (7) DAYS BEFORE ANY PRESSURE TESTS ARE CONDUCTED.
5. CONCRETE SHALL BE MINIMUM 3000 PSI.
6. RESTRAINTS SHALL BE USED IN LESS OF THRUST BLOCK METHOD TO BE USED SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.

- TOWN OF CANANDAIGUA - WATERMAIN THRUST BLOCK SCHEDULE

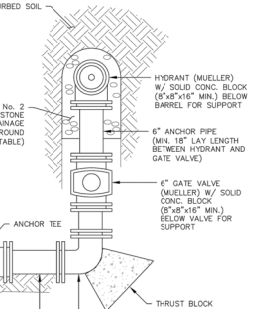
CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE		A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) BACKFILL WITH COMPACTED CRUSHER RUN STONE.
II WATER LINE ABOVE SEWER LINE		A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. D) BACKFILL WITH COMPACTED CRUSHER RUN STONE.
III SEWER LINE ABOVE WATER LINE		A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE REFINISH DETAIL BELOW) FOR WATER LINE AND SEWER LINE FOR 10 FT. EACH SIDE OF CROSSING.

NOTES:

1. IN NO CASE SHALL PIPES BE CLOSER THAN 12" APART. DISTANCES ARE MEASURED BETWEEN OUTSIDES OF PIPE.

WATERMAIN/SEWER CROSSING DETAIL

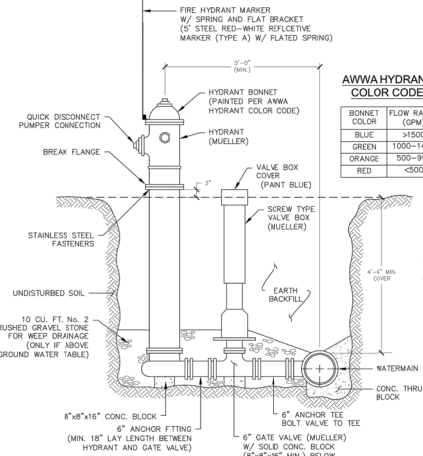
- TOWN OF CANANDAIGUA -



NOTES:

1. IF GROUND WATER IS ENCOUNTERED, THE WEEP HOLES MUST BE PLUGGED AND THE HYDRANT MARKED.
2. HYDRANTS SHALL BE PAINTED RED.

- TOWN OF CANANDAIGUA - PARALLEL HYDRANT UNIT

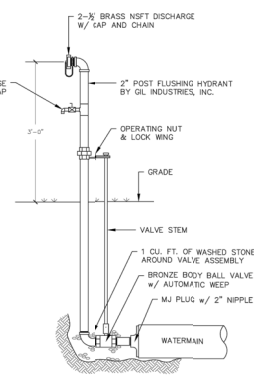


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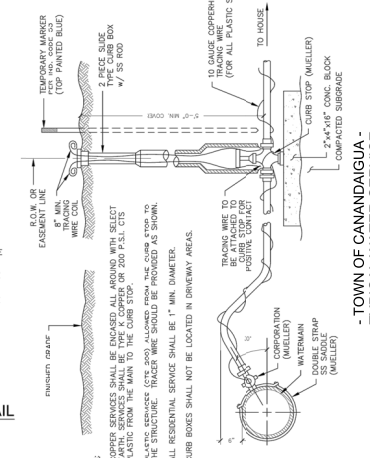
1. IF GROUND WATER IS ENCOUNTERED, THE WEEP HOLES MUST BE PLUGGED AND THE HYDRANT MARKED.
2. HYDRANTS SHALL BE PAINTED RED.

HYDRANT UNIT

- TOWN OF CANANDAIGUA -



- TOWN OF CANANDAIGUA - TEMPORARY BLOW-OFF DETAIL



NOTES:

1. CUPPER SERVICES SHALL BE ENCASED ALL AROUND WITH SELECT PLASTIC FROM THE MAIN TO THE CURB STOP.
2. PLASTIC SERVICES (CUTS 300) ALLOWED FROM THE CURB STOP TO THE STRUCTURE. TRACER WIRE SHOULD BE PROVIDED AS SHOWN.
3. ALL RESIDENTIAL SERVICE SHALL BE 1" MIN. DIAMETER.
4. CURB BOXES SHALL NOT BE LOCATED IN DRIVEWAY AREAS.

NYS DOH APPROVAL

- TOWN OF CANANDAIGUA - TYPICAL WATER SERVICE

SITE DEVELOPMENT PLANS PREPARED FOR:
SUNSET RIDGE ESTATES/ LAKEWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT
SHOWING LAND IN:
3335 STATE ROUTE 84/ 000 COUNTY ROAD 18
TOWN OF CANANDAIGUA/HOHEBELL
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE: WATER DETAILS

DRAWN BY:	XXX
DESIGNED BY:	XXX
CHECKED BY:	BAM
SCALE:	AS NOTED
JOINT NO.:	2020
DATE:	02/09/2022
TAX MAP NO.:	86-09-20-01

C600

Mark Engineering
4.3 RETAINMENT
CANANDAIGUA, NY 14824
Phone 585-905-0240
Fax 585-485-9025
www.markengineering.com



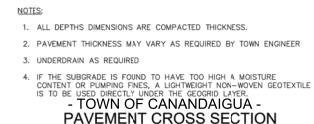
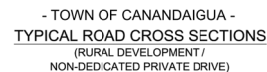
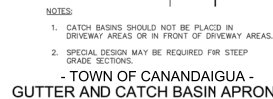
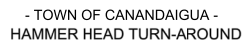
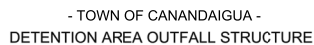
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REVISIONS

DATE

DESCRIPTION OF REVISION

NO.

REVISIONS

SITE DEVELOPMENT PLANS PREPARED FOR:

— 100 —

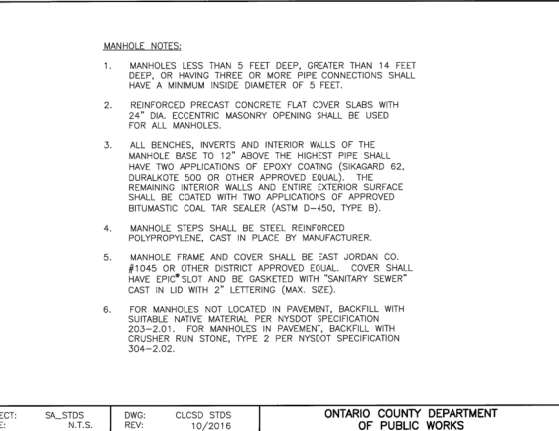
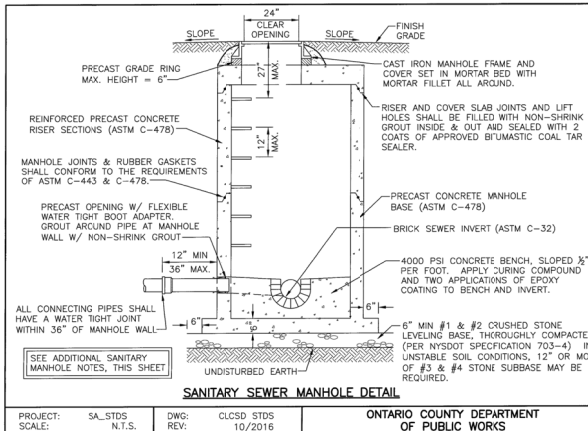
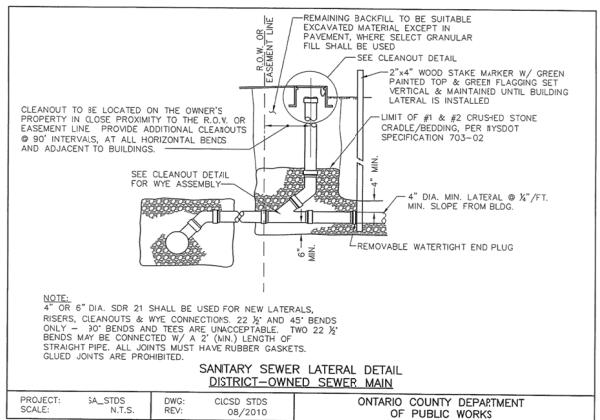
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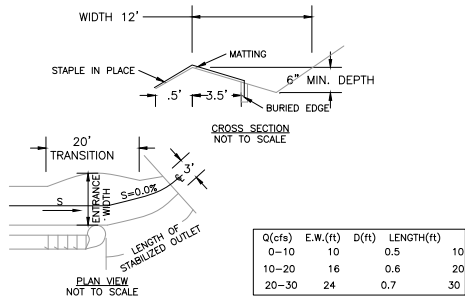
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DESIGNED BY:	XXX
CHECKED BY:	RAM
SCALE:	AS NOTED
JOB NO:	20-243
DATE:	02/01/2020
TAX MAP#:	9819-1-2

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Missing or invalid reference

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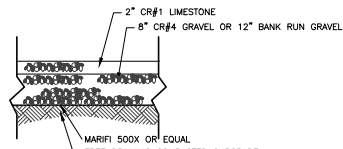




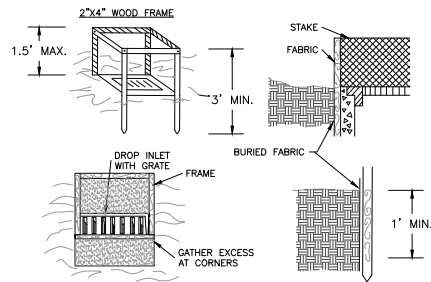
CONSTRUCTION SPECIFICATIONS

1. THE MATTING SHOULD BE A MINIMUM OF 4FT. WIDE EXTENDING 6 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON THE LOWER EDGE. THE UPPER EDGE SHOULD BUTT AGAINST SMOOTHLY CUT SOD AND BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
2. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD DISCHARGE.
3. THE LIP SHALL BE CONSTRUCTED ON UNDISTURBED SOIL NOT FILL.
4. A 20 FOOT TRANSITION SECTION WILL BE CONSTRUCTED FROM THE DIVERSION CHANNEL TO THE SPREADER TO SMOOTHLY BLEND THE DIFFERENT DIMENSION AND GRADES.
5. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT EXCEEDING 10%.
6. SEED AND MULCH THE DISTURBED AREA IMMEDIATELY AFTER CONSTRUCTION.

1 TYPICAL LEVEL SPREADER DETAIL
NTS



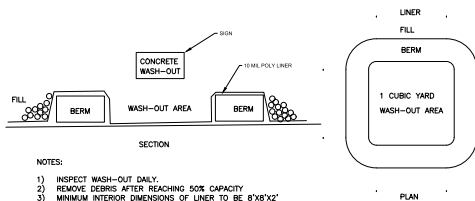
4 TYPICAL GRAVEL DRIVE SECTION
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6 DETAIL: FILTER FABRIC INLET PROTECTION
NOT TO SCALE

NOTES

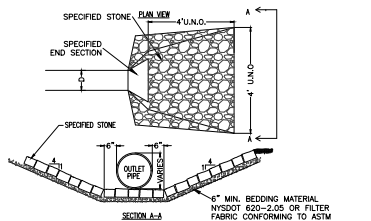
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT-TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2x4 WOOD OR EQUIV. MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2x4 WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.



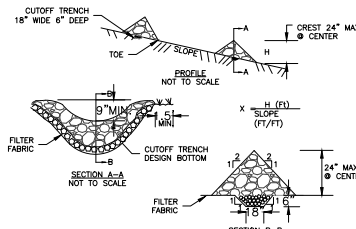
NOTES

- 1) INSPECT WASH-OUT DAILY.
- 2) REMOVE DEBRIS AFTER REACHING 50% CAPACITY
- 3) MINIMUM INTERIOR DIMENSIONS OF LINER TO BE 8'X6'X2'

7 CONCRETE WASH-OUT
NTS



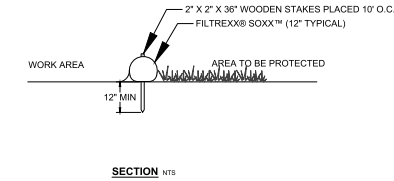
5 TYPICAL OUTLET PROTECTION
NTS



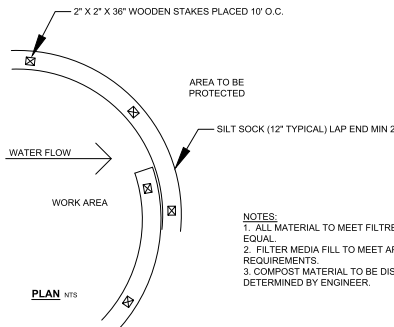
8 TYPICAL CHECK DAM DETAIL
NTS

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
3. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
4. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

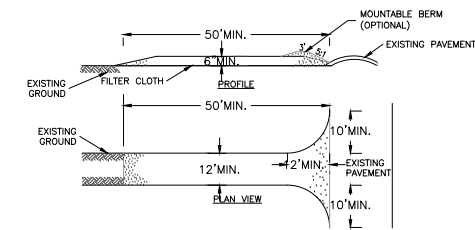


SECTION NTS



SILT SOCK SEDIMENT CONTROL

- NOTES:
1. ALL MATERIAL TO MEET FILTERXXX SPECIFICATIONS OR EQUAL.
 2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. 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.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

9 STABILIZED CONSTRUCTION ENTRANCE
NTS

Markus Engineering

413 BETHAM ST
CANANDAIGUA, NY 14624
Phone: 315-465-0240
Fax: 315-465-0205
markusengineering.com

PRELIMINARY
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	DESCRIPTION OF REVISION

STAMP

SITE DEVELOPMENT PLANS PREPARED FOR:
SUNSET RIDGE ESTATES/LAKWOOD CUSTOM HOMES
RESIDENTIAL DEVELOPMENT

SHOWING LAND IN:
3335 STATE ROUTE 847/000 COUNTY ROAD 18
TOWN OF CANANDAIGUA/HOPEWELL
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
DETAILS

DRAWN BY: XXX
DESIGNED BY: XXX
CHECKED BY: BAM
SCALE: AS NOTED
JOB NO.: 20240
DATE: 02/09/2022
TAX MAP NO: 86-01-F-2010

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