FINAL SECTION 1 PLANS PIERCE BROOK SUBDIVISION

STATE ROUTE 21 SOUTH, T.A. NO. 97.02-1-52.1 PARRISH STREET EXTENSION, T.A.NO. 97.00-2-2.1 SITUATE IN:

TOWN OF CANANDAIGUA - ONTARIO COUNTY - STATE OF NEW YORK

OVERALL PROJECT INFORMATION (1.0) GENERAL (1.1) APPLICANT: MORRELL BUILDERS, INC. 1501 PITTSFORD VICTOR ROAD SUITE 100 VICTOR NY 14564 (1.2) TAX ACCOUNT NUMBERS WILKIN PARCEL 54.4 +/- ACRES WILKIN PARCEL 40.4 +/- ACRES THE FOLLOWING SYNOPSIS IS COMPILED FROM THE TOWN CODE AND IS BASED ON THE APPLICABLE ZONING REGULATIONS FOR THIS APPLICATION (2.1) PARCEL DESIGNATION: SOUTHERN CORRIDOR RESIDENTIAL SCR-1.....93.6 +/- ACRES 1.2 +/- ACRES RESIDENTIAL R1-20 ... TOTAL 94.8 +/- ACRES (5.0) CONSERVATION SUBDIVISION SUPPORTING DATA: SCR-1 1 UNIT / ACRE (2.3) DIMENSIONAL REQUIREMENTS FOR SCR-1 ZONING: a. MINIMUM LOT WIDTH (FT) b. MINIMUM SETBACKS (FT): c. MAXIMUM BUILDING HEIGHT (FT)35 d. MAXIMUM BUILDING COVERAGE ON LOT 20% (3.0) CONSERVATION SUBDIVISION WE ARE REQUESTING THIS DEVELOPMENT BE CONSIDERED AS A CONSERVATION SUBDIVISION WITH INCREASED DENSITY AS ALLOWED UNDER CHAPTER 174 OF THE CODE. THE FOLLOWING IS A SUMMARY SUPPORTING THIS REQUEST. (3.1) BASE DENSITY CALCULATED AS (TOTAL ACREAGE – CONSTRAINED LANDS) / ALLOWABLE DENSITY 93.5 – 13.5 = 80.0 ACRES / 1 UNIT PER ACRE = 80.0 UNITS 55,492 – 5,958 = 49,534 SF / 1 UNIT PER 20,000 SF = TOTAL BASE DENSITY = 82.4 = 82 UNITS (3.2) ADDITIONAL DENSITY: PARAGRAPH C(1)(B) OF CHAPTER 174-16 ALLOWS FOR A 15% INCREASE BY THE TOWN BOARD WHEN "SERVED BY PUBLIC WATER AND SEWER, IF PERMANENT PUBLIC ACCESS WILL BE GRANTED TO THE PROTECTED OPEN SPACE LAND AND ANY ASSOCIATED IMPROVEMENTS". 15% OF 82 UNITS IS 12 ADDITIONAL UNITS RESULTING IN A TOTAL ALLOWABLE DENSITY OF 94 UNITS * ON APRIL 19, 2021, THE TOWN BOARD AUTHORIZED THE PLANNING BOARD TO APPROVE UP TO A 15% DENSITY INCREASE (4.0) <u>PLAN DATA:</u> SIGNIFICANT FEATURES OF THIS FOR SALE SINGLE-FAMILY TOWN HOME DEVELOPMENT TWO-UNIT BUILDING (TYPE A) 25 = 50 UNITS THREE-UNIT BUILDING (TYPE B) 14 = 42 UNITS TOTAL = 92 UNITS (4.2) <u>SITE ALLOCATION</u> DEVELOPMENT AREA 23 +/- ACRES (24 %) OPEN SPACE 72 +/- ACRES (76%) TOTAL 95+/- ACRES (100%)

(4.3) DIMENSIONAL CONTROL

(4.4) ROADWAY FRONTAG

(4.6) MISCELLANEOUS

(5.1) OPEN SPACE

(5.2) NATURAL RESOURCES

MINIMUM SETBACK FROM RIGHT-OF-WAY...

PUBLIC WATER TO TOWN OF CANANDAIGUA, LOOPED

PUBLIC STORM SYSTEMS TO TOWN OF CANANDAIGUA

OPEN SPACE (DEDICATED OR MAINTAINED BY HOA)

PEDESTRIAN LINK TO TOWN PARK / TOWN TRAIL

BY THE LOCAL FARMING COMMUNITY.

APPROXIMATELY 6 – 7% IMPERVIOUS AREA.

THE SCR-1 OR A CONSERVATION ZONING.

*SEE SECTION 1 PLAT MAPS FOR

SECTION PROJECT INFORMATION

ELECTRIC SERVICE TO ROCHESTER GAS AND ELECTRIC (RG&E)

ALONG BUILDINGS 3,750 +/- FT

GAS SERVICE TO NYSEG / GENEVA GAS

SIDEWALKS (ONE SIDE)

MINIMUM DISTANCE PRINCIPAL STRUCTURE TO EXTERNAL PROPERTY LINE...... 40 FT

(TOWN DETAIL H-2.2 "SUBDIVISION ROAD"; 22 FT WIDE WITH 30" GUTTERS)

STORMWATER FACILITIES – MAINTAINED BY HOMEOWNER'S ASSOCIATION (HOA)

TRAILS — NATURAL SURFACE (I.E. GRASS) LOCATION DEFINED WITH TOWN INPUT

THIS PLAN OFFERS 80 +/- ACRES OF TOTAL OPEN SPACE (84%) WHEREAS THE

ACRES; AN INCREASE OF 32 +/- ACRES OR 66% ABOVE REQUIREMENT

MINIMUM REQUIRED OPEN SPACE UNDER CONSERVATION EASEMENT IS 48 +/-

(MINIMUM OPEN SPACE IS CONSTRAINED LANDS PLUS 40% OF DEVELOPABLE

THE LONG-TERM PRESERVATION OF THESE PARCELS' NATURAL RESOURCES WITHIN

• FARMLAND – PORTIONS OF THESE PARCELS HAVE THE POTENTIAL TO BE PLANTED

SUBSTANTIAL AMOUNT OF NATURAL LAND COVER. FOR EXAMPLE, SCR-1 ZONING

ENDANGERED/THREATENED SPECIES – THERE ARE NO KNOWN ENDANGERED OR THREATENED SPECIES ON THESE PARCELS. A CONSERVATION SUBDIVISION WILL

ALLOW FOR SIGNIFICANTLY GREATER AREA FOR THE INDIGENOUS WILDLIFE AND

THE INTERCONNECTION IS BETTER THEREBY FACILITATING MOVEMENT WITHIN

WETLAND, STREAM CORRIDOR AND FARM POND. STORMWATER FACILITIES WILL

BE DESIGNED TO MEET REGULATIONS WHETHER THIS AREA IS DEVELOPED UNDER

OPPORTUNITY FOR CONNECTION OF THE OPEN SPACE AND THE TOWN PARK. THE APPLICANT LOOKS FORWARD TO WORKING WITH TOWN STAFF AND BOARDS TO

<u>WATER RESOURCES</u> – THIS PLAN PRESERVES THE FEDERALLY PROTECTED

DEVELOPMENT IMMEDIATELY TO THE WEST. THIS PROVIDES A UNIQUE

• SCENIC VIEWS – NO VISIBILITY OF THE DEVELOPMENT EXISTS FROM EASTERLY

LOCATIONS TO THE SITE. THE ENTIRE DEVELOPMENT IS LESS THAN ELEVATION 1000. THE AREA HIGH POINT IS LOCATED FURTHER WEST APPROACHING THE PARRISH STREET EXTENSION AND RT. 21 INTERSECTION. THE EASTERN PROPERTY

LINE OF THE DEVELOPMENT IS BUFFERED/HIDDEN BY THE STEEP GRADE AND

MATURE TREE LINE WHICH WILL BE PRESERVED AND ENHANCED WITH THIS

• STEEP SLOPES – THIS SITE CONTAINS AN AREA OF 1.2 ACRES WHERE THE GRADE

MEETS OR EXCEEDS 15%; THIS AREA WILL BE FULLY WITHIN THE OPEN SPACE AND

• <u>PUBLIC OR PROTECTED LAND</u> – A TOWN PARK IS ADJACENT TO THIS

IDENTIFY THE BEST WAY TO LEVERAGE THIS OPPORTUNITY.

WOODLANDS – THE EXISTING 7.5 ACRES OF WOODLANDS WILL BE PROTECTED.

LAND COVER – THIS "CLUSTER" DEVELOPMENT APPROACH PRESERVES A

ALLOWS FOR UP TO 20% IMPERVIOUS AREA, THIS PLAN HAS ONLY

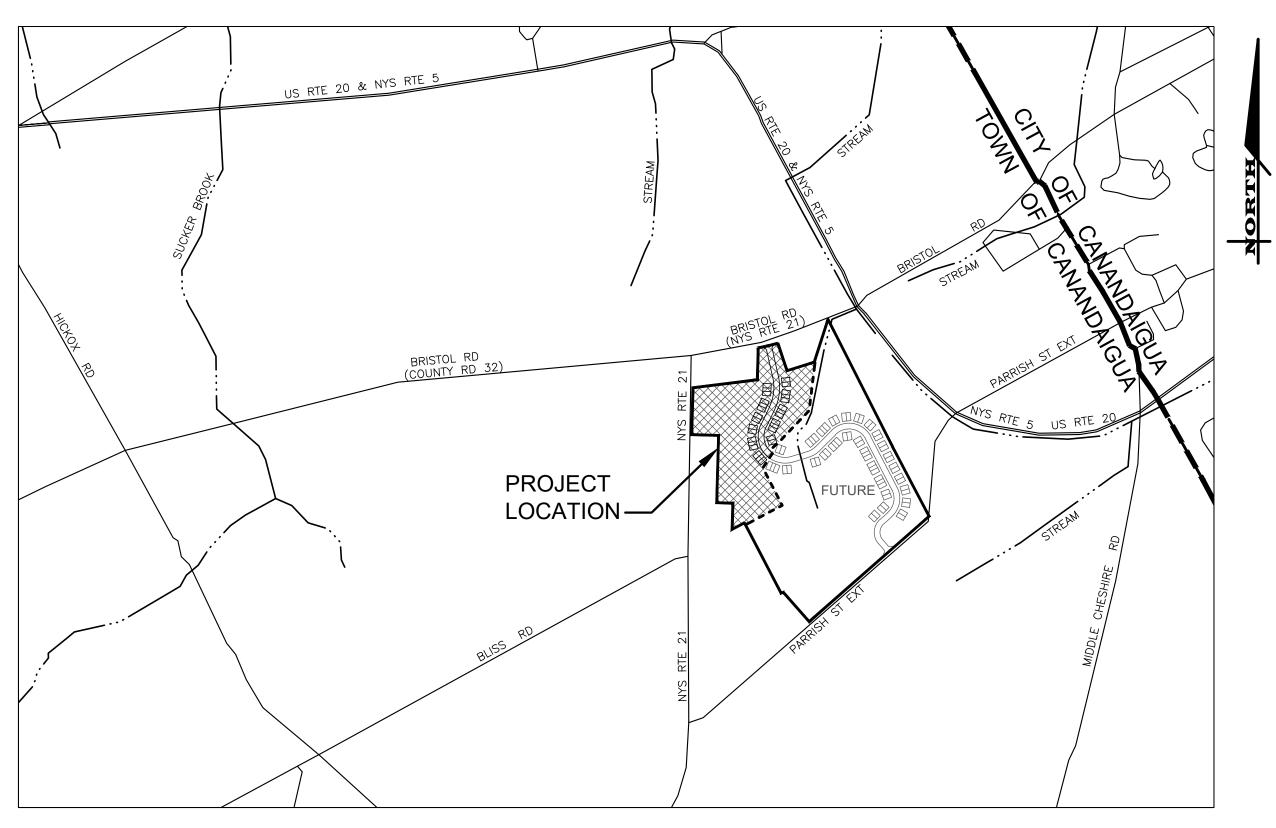
THE OPEN SPACE IS ONE OF THIS APPLICATION'S MOST BENEFICIAL ASPECTS: A STANDARD SCR-1 PROPOSAL DOES NOT ACCOUNT OR ALLOW FOR THIS PROTECTION. THE TOWN'S UPDATED "NATURAL RESOURCES INVENTORY" (NRI, DATED NOV 2020)

IDENTIFIES THESE RESOURCES; THE FOLLOWING SUMMARIZES HOW THIS CONSERVATION SUBDIVISION APPLICATION ADDRESSES THIS PRESERVATION.

PUBLIC SANITARY TO ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS

PRELIMINARY OVERALL CONDITIONS OF APPROVAL

- SPECIFIED IS VALID FOR A PERIOD OF 180 DAYS FROM TODAY. IF REVISED PRELIMINARY OVERAL PHASED) SUBDIVISION PLANS MEETING ALL CONDITIONS OF APPROVAL HAVE NOT BEEN BECOME NULL AND VOID UNLESS AN EXTENSION IS REQUESTED BY THE APPLICANT AND
- 3. PAYMENT OF A FEE IN LIEU OF A SET ASIDE OF PARKLAND SHALL BE MADE AT THE TIME OF
- PROJECT SHALL BE SUBMITTED TO THE TOWN ATTORNEY FOR REVIEW AND APPROVAL AND SUCH
- THE COMMENTS WITHIN THE TOWN ENGINEER COMMENT LETTER DATED SEPTEMBER 14, 2021 AND ANY SUBSEQUENT REVIEWS ARE TO BE ADDRESSED TO THE SATISFACTION OF THE TOWN
- APPROVAL OF THE SANITARY SEWER DESIGN AND DISTRICT EXTENSION ARE REQUIRED AS PART
- 8. ALL COMMENTS FROM NYS DEPARTMENT OF TRANSPORTATION (DOT) ARE TO BE ADDRESSED AND APPROVAL OF THE DESIGN AS PART OF THE FINAL PHASE 1 SUBDIVISION PLAN APPROVAL.
- 9. THE PRELIMINARY OVERALL (PHASED) SUBDIVISION PLANS ARE TO BE REVISED TO IDENTIFY A CONSERVATION EASEMENT OVER THE OPEN SPACE AREAS, INCLUDING THE PUBLIC TRAILS, AND STREAM CORRIDOR. THE MANAGEMENT AND OPERATION PLAN/ AGREEMENT FOR THE CONSERVATION EASEMENT SHALL BE SUBMITTED TO THE TOWN ATTORNEY FOR REVIEW AND APPROVAL AND SUCH APPROVAL SHALL BE OBTAINED PRIOR TO THE PLANNING BOARD CHAIRMAN'S SIGNATURE BEING AFFIXED TO THE FINAL PHASE 1 SUBDIVISION PLANS.
- 10. THE SURFACE AND LOCATION OF ALL PROPOSED TRAILS HAVE NOT YET BEEN DETERMINED BY THE PLANNING BOARD AND WILL BE DISCUSSED AS PART OF FINAL PHASE 1 SUBDIVISION PLAN



LOCATION MAP

NOT TO SCALE



39 CASCADE DRIVE ROCHESTER, NY 14614 5 8 5 - 4 5 8 - 7 7 7 0 ITHACA LOCATION 840 HANSHAW RD, STE 6 ITHACA, NY 14850 6 0 7 - 2 4 1 - 2 9 1 7 www.marathoneng.com

	PIEF	RCE BROOK SUB	DIVISION SHEET TABLE				
SHEET	NUMBER	DRAWING NUMBER	DRAWING TITLE				
_		COVER	COVER				
1		CO.1	NOTE, ABBREVIATIONS, AND SPECIFICATIONS				
2		C1.0	OVERALL PLAN				
3		C2.0	SUBDIVISION PLAN (SHEET 1 OF 2)				
4		C2.1	SUBDIVISION PLAN (SHEET 2 OF 2)				
5		C3.0	UTILITY PLAN				
6		C4.0	GRADING PLAN				
7		C5.0	EROSION AND SEDIMENT CONTROL PLAN				
8		C5.1	EROSION AND SEDIMENT CONTROL DETAILS				
9		C6.0	CENTERLINE PROFILE				
10		C7.0	LANDSCAPING PLAN				
11		C8.0	EXISTING CONDITIONS, DEMOLITION, AND NATURAL FEATURES PLAN				
12		C9.0	CONSTRUCTION DETAILS				
13		C9.1	CONSTRUCTION DETAILS				
14		C9.2	CONSTRUCTION DETAILS				
15		C10.0	NYSDOT UTILITY PERMIT PLAN				

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MARATHON
ENGINEERING ROCHESTER LOCATION

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NOTES, INFORMATION AND SPECIFICATIONS

GENERAL NOTES

- MAPPING THE EXISTING UNDERGROUND UTILITIES WERE PLOTTED BASED ON RECORD MAPPING SUPPLIED BY OTHERS. THE ENGINEER MAKES NO WARRANTY AS TO THE LOCATION, SIZE, TYPE, ELEVATION, AND/OR NUMBER OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE VICINITY OF THE NEW INFRASTRUCTURE.
- 2. UTILITY STAKEOUT THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (1-800-962-7962) FOR A UTILITY STAKEOUT 48 HOURS IN ADVANCE OF COMMENCING WORK. STAKEOUT OF PRIVATE UTILITIES SHALL BE COORDINATED
- PROPERTY PROTECTION THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING PAVEMENT, CURBS, WALKS LAWNS TREES FTC CAUSED BY THEIR CONSTRUCTION OPERATIONS. ALL DAMAGE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AT NO ADDITIONAL EXPENSE.
- 4. ACCESS THE CONTRACTOR SHALL PROVIDE SATISFACTORY VEHICULAR ACCESS TO ALL ADJOINING PROPERTIES. PRIVATE ROADWAYS, PARKING FACILITIES, AND PUBLIC STREETS DURING CONSTRUCTION.
- 5. SITE SAFETY PRIOR TO AND THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL POST SIGNAGE IN CONFORMANCE WITH THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND OCCUPATIONAL HEALTH AND SAFETY ACT

(OHSA). JOB SAFETY AND MAINTENANCE AND PROTECTION OF TRAFFIC IS THE RESPONSIBILITY OF THE CONTRACTOR.

- 6. **EXCAVATIONS** ALL EXCAVATIONS SHALL BE BACKFILLED/BARRICADED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONCLUSION OF EACH WORKING DAY.
- MAINTENANCE PUBLIC STREETS. PRIVATE DRIVES AND PARKING FACILITIES SHALL BE KEPT FREE OF FOREIGN MATERIALS. ALL AREAS SHALL BE SWEPT CLEAN AT THE END OF EACH WORKING DAY AND/OR AS DIRECTED BY THE
- 8. CONSTRUCTION STORAGE STORAGE OF EQUIPMENT AND MATERIALS SHALL BE WITHIN A SPECIFIED AND SECURED AREA AS DETERMINED IN CONTRACT DOCUMENTS OR AS SPECIFIED BY THE OWNER'S ON-SITE
- 9. PERMIT(S) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE APPLICABLE MUNICIPALITY OR AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR ALL BONDS AND INSURANCES AND THE OWNER IS RESPONSIBLE FOR PERMIT FEES UNLESS OTHERWISE STATED IN THE OWNER/ CONTRACTOR
- 10. INTERIM CONDITIONS THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS AND WITHIN PROJECT AREA TO A STABILIZED OUTLET THROUGHOUT THE CONSTRUCTION PERIOD. THIS MAY REQUIRE INTERIM GRADING, SHIMMING OF PAVEMENT ETC. THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION NOTES

- 1. STAKEOUT THE CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR USING CONTROL PROVIDED ON THESE PLANS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER (PRIOR TO THE INSTALLATION OF IMPROVEMENTS) FOR COORDINATION AND CLARIFICATION.
- 2. DEMOLITION CLEARING AND GRUBBING SHALL BE LIMITED TO THE SITE BOUNDARIES OR WITHIN THE "WORK LIMIT LINE" AS DEFINED ON THE PLAN. TREES AND OBJECTS DESIGNATED FOR REMOVAL SHALL BE COORDINATED AND FIELD VERIFIED WITH PROJECT ON-SITE REPRESENTATIVE. ALL MATERIALS SHALL BE LEGALLY DISPOSED OF OFF-SITE OR RETURNED TO OWNER AS DIRECTED BY CONTRACT DOCUMENTS. ALL ITEMS NOT SPECIFICALLY CALLED OUT TO BE
- 3. COORDINATION THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITY WORK WITH OTHER SITE UTILITIES (I.E. GAS, ELECTRIC, LIGHTING, COMMUNICATIONS) TO AVOID POTENTIAL INSTALLATION CONFLICTS.
- 4. STAGING AS DEFINED BY THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL CONSTRUCT A SECURE STAGING AREA FOR STORAGE OF EQUIPMENT, MATERIALS, EMPLOYEE PARKING AND OFFICE SPACE. IF THE AREA/METHOD IS NOT SPECIFICALLY DEFINED ON THE DOCUMENTS THEN IT SHALL BE COORDINATED WITH THE OWNER'S ON-SITE
- 5. CLOSE-OUT THE CONTRACTOR'S WORK SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING AT PROJECT CLOSE-OUT TO THE SATISFACTION OF OWNER'S ON-SITE REPRESENTATIVE:
- REMOVAL OF ANY CONSTRUCTION DEBRIS.
- CLEANING PAVEMENT AND WALKWAY SURFACES • RESTORATION OF ALL DISTURBED GRASS AND LANDSCAPED AREAS.
- PROVIDING BONDS, GUARANTEES, CERTIFICATIONS, ETC. AS REQUIRED
- BY CONTRACT DOCUMENTS. PROVIDING A RECORD DRAWING.

UTILITY NOTES

- 1.1 REGULATIONS STORM SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST REGULATIONS OF THE MUNICIPALITY.
- 1.2 MATERIALS THE CONTRACTOR MAY USE THE FOLLOWING PIPE MATERIAL FOR THE MAIN SEWER AS ALLOWED BY THE MUNICIPALITY, PROVIDING THAT THE ROUGHNESS COEFFICIENT ("N" FACTOR) IS 0.013 OR
 - REINFORCED CONCRETE PIPE (RCP), CLASS III • HIGH DENSITY CORRUGATED POLYETHYLENE PIPE (PE), AASHTO M-29, TYPE S, ASTM D-3350.
- 1.3 ROOF DRAINAGE ALL ROOF DRAINAGE AND SUMP PUMPS SHALL BE DISCONNECTED TO THE REAR OF THE LOT OR CONNECTED TO STORM SEWERS AS INDICATED ON THE PLANS.
- **1.4 TESTING** UPON COMPLETION OF SYSTEM INSTALLATION, THE MAIN SEWER SYSTEM AND LEADS TO STRUCTURES SHALL BE FLUSHED AND LAMPED TO THE SATISFACTION OF THE MUNICIPALITY.
- 2. PUBLIC WATER EXTENSION NOTES
- CANANDAIGUA CONSOLIDATED WATER DISTRICT AND NEW YORK STATE DEPARTMENT OF HEALTH

2.1 SPECIFICATIONS - WATER MAINS AND APPURTENANCES TO BE CONSTRUCTED IN ACCORDANCE WITH THE

- REGULATIONS AND SPECIFICATIONS OF THE TOWN OF CANANDAIGUA WATER DEPARTMENT AND NYSDOH. 2.2 MATERIAL:
 - WATER MAIN(S) SHALL BE 8" DR-14 PVC PLASTIC.

 - A. CORPORATIONS STOP SHALL BE MUELLER H-1500B COMPRESSION TYPE. B. CURB STOPS SHALL BE MUELLER H-15209 MARK II COMPRESSION TYPE.
 - C. CURB BOXES SHALL BE MUELLER H-10334, 5 FEET JONG WITH STAINLESS STEEL RODS AND STAINLESS STEEL KEYS. CURB BOXES SHALL NOT BE LOCATED WITHIN DRIVEWAYS.
 - D. COPPER SERVICES SHALL BE TYPE "K" ASTM BBB E. PLASTIC SERVICES SHALL BE COPPER TUBE SIZE {CTS} AT 200 PSI, WITH A MINIMUM 1 INCH PIPE DIAMETER (ONLY USED FROM CURB BOX TO UNIT AND A CONTINUOUS #10 GAUGE COPPER TRACER WIRE SHALL BE INCLUDED FROM
 - THE CURB BOX TO THE STRUCTURE]. SAND BEDDING SHALL BE PROVIDED AS APPROPRIATE. F. POLYETHYLENE ASTM 0-2737, PE 340B PER AWWA C-901 (MINIMUM 5'-0" DEPTH AND SAND ENCASEMENT REQUIRED) G. ALL SERVICES TAPPED INTO MAINS SHALL UTILIZE DOUBLE STRAP SS SADDLE (MUELLER) WITH A MUELLER
 - H. ANY SERVICES LARGER THAN 1" SHALL MEET THE MINIMUM SPECIFICATIONS OF THE WATER SUPERINTENDENT. I. REFER TO TYPICAL WATER SERVICE DETAIL ON SHEET C9.2.
 - WATER METER(S) SHALL BE LOCATED ON THE INTERIOR OF EXTERIOR WALLS IMMEDIATELY UPON SERVICE ENTRANCE INTO THE BUILDING(S). ON METERED SERVICES REQUIRING A 1 1/2-INCH OR LARGER METER A BYPASS AROUND THE METER IS REQUIRED.
 - ALL GATE VALVES SHALL HAVE STAINLESS STEEL BODY AND BONNET BOLTS.
 - ALL WATERMAIN MATERIALS AND GATE VALVES ARE TO BE MUELLER AND ALL CAST IRON FITTINGS ARE TO BE TYLER.
 - HYDRANTS ARE TO BE PAINTED RED WITH BONNETS PAINTED AS PER THE AWWA HYDRANT COLOR CODE AS SHOWN IN THE HYDRANT UNIT DETAIL ON SHEET C9.2. ALL VALVE BOX COVERS SHALL BE PAINTED BLUE

2. PUBLIC WATER EXTENSION NOTES (CON'T)

RECEIVED BEFORE THE MAIN IS PLACED IN SERVICE.

2.3 TESTING:

• PRESSURE - THE WATER MAIN SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C605 (LATEST REVISION) OR IN ACCORDANCE WITH MORE STRINGENT REQUIREMENTS IMPOSED BY THE CANANDAIGUA WATER DEPARTMENT.

 THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD SPECIFICATIONS, DESIGNATION C-651, BY USING THE CONTINUOUS FEED METHOD. AFTER FLUSHING, AND DISINFECTING THE WATER MAIN. WATER SAMPLES SHALL BE COLLECTED FROM THE MAIN BY THE TOWN OF CANANDAIGUA WATER DEPARTMENT AND TWO CONSECUTIVE DAYS OF ACCEPTABLE BACTERIOLOGICAL SAMPLE RESULTS ARE REQUIRED. FIRE HYDRANTS

ARE NOT ACCEPTABLE SAMPLING POINTS. APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE

2.4 INSTALLATION:

- WATER MAINS AND ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF FIVE FEET OF COVER FROM FINISHED GRADE IN LAWN AREAS AND A MINIMUM OF SIX FEET OF COVER FROM FINISHED GRADE IN
- TRACER WIRE IS TO BE PLACED WITH THE WATERMAIN AND LOOPED AT THE FIRE HYDRANTS.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPELINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTIONS OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES, OR VAULTS.
- FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF THE FINISHED GRADE.
- ALL MECHANICAL JOINT FITTINGS (TEES, BENDS, PLUGS, ETC.) SHALL BE BACKED WITH 3000 PSI CONCRETE THRUST BLOCKS AS SHOWN IN THE WATERMAIN THRUST BLOCK SCHEDULE ON SHEET C9.2.
- THERE ARE NO KNOWN SOIL CHARACTERISTICS REQUIRING SPECIAL INSTALLATION MEASURES (WRAPPING PIPE, ETC.). IF CONTRACTOR ENCOUNTERS SOILS DURING INSTALLATION THAT MAY REQUIRE SPECIAL INSTALLATION MEASURES NOT INCLUDED IN THIS DOCUMENT, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR OBSERVATION AND
- THE TOWN OF CANANDAIGUA WATER SUPERINTENDANT IS TO BE CONTACTED TO INSPECT WATERMAIN MATERIALS PRIOR TO INSTALLATION.
- 2.5 FLUSHING WATER MAINS DESIGNATION C651 (LATEST REVISION). FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. FLUSHING OF THE WATER MAIN MUST BE WITNESSED BY THE TOWN OF CANANDAIGUA WATER DEPARTMENT EMPLOYEES. THE TOWN OF CANANDAIGUA WILL PROVIDE A DE-CHLORINATION DEVICE FOR THE SUPER-CLORINATED WATER.

2.6 DISINFECTION

- THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651 (LATEST REVISION) FOLLOWING DISINFECTION THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM
- ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.
- FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS
- 2.7 SAMPLING THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING
 - SAMPLING SHALL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NEW YORK STATE LICENSED OR REGISTERED DESIGN PROFESSIONAL (ENGINEER, ARCHITECT OR LAND SURVEYOR WITH A SPECIAL EXEMPTION UNDER SECTION 7208(N) OF THE EDUCATION LAW) CERTIFYING THAT THE WATER SUPPLY IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS, SAMPLES, SHALL BE COLLECTED
 - FOR FREE CHLORINE RESIDUAL, TOTAL COLIFORM, ESCHERICHIA COLI (E. COLI) AND TURBIDITY. • THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE NEW YORK STATE DEPT

EARTHWORK NOTES

- 1. PREPARATION PRIOR TO START OF EARTHWORK OPERATIONS THE CONTRACTOR SHALL COMPLETE THE FOLLOWING APPLICABLE ITEMS AS DEFINED BY CONTRACT DOCUMENTS:
- SITE DEMOLITION REMOVAL AND DISPOSAL OFF-SITE IN A LEGAL MANNER; STRUCTURES, UTILITIES,
- CLEARING AND GRUBBING REMOVAL AND DISPOSAL OFF-SITE IN A LEGAL MANNER; TREES, BRUSH,
- TOPSOIL STRIPPING STRIP AND STOCKPILE TOPSOIL FOR REUSE. EXCESS TOPSOIL MAY BE REMOVED
- FROM SITE WITH APPROVAL BY OWNER AND MUNICIPALITY.
- 2. **RESPONSIBILITY** THE CONTRACTOR IS RESPONSIBLE FOR:
- ESTIMATE COMPLETION OF A QUANTITY TAKEOFF TO DETERMINE THE VOLUME OF CUT, FILL, AND TOPSOIL. COMPARE AND COORDINATE WITH INFORMATION PROVIDED BY THE DESIGN ENGINEER.
- GRADE TOLERANCES ESTABLISHING DESIGN SUBGRADE ELEVATIONS TO WITHIN ONE TENTH OF ONE FOOT (0.10') IN PAVEMENT AREAS (INCLUDING WALKS) AND TO WITHIN THIRTY-THREE HUNDREDTHS OF ONE FOOT (0.33') FOR ALL REMAINING AREAS.
- COMPACTION ACHIEVING THE SPECIFIED MINIMUM COMPACTION VALUES FOR EMBANKMENT/FILL AREAS. THE TERMS "FILL" AND EMBANKMENT" ARE INTERCHANGEABLE.
- CUTS ONCE EXCAVATIONS ARE SHAPED TO THE DESIGN GRADES THE AREAS SHALL BE PROTECTED TO ASSURE THAT THE INTEGRITY OF MATERIAL IS NOT COMPROMISED BY CONSTRUCTION VEHICLES AND/OR IMPROPER DRAINAGE. AREAS DETERMINED BY CONTRACTOR TO BE **NOT** SUITABLE FOR SUBGRADE PLACEMENT SHALL BE IMMEDIATELY REPORTED WHEN THE SUBGRADE IS ESTABLISHED TO OWNER'S REPRESENTATIVE. STABILIZATION MEASURES FOR CUT AREAS MAY BE CONSIDERED BY OWNER'S REPRESENTATIVE AS A CHANGE TO THE BASE
- 3. **TESTING** THE FOLLOWING MAXIMUM DRY DENSITIES SHALL BE ACHIEVED AS MEASURED BY THE MODIFIED
- PROCTOR METHOD ASTM D-1557:
- 95% UNDER PAVEMENTS, WALKS, AND IN STRUCTURAL FILL AREAS 85% IN REMAINING AREAS
- THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR SHALL DEFINE THE NUMBER OF TESTS AND RESPONSIBILITY. WE RECOMMEND IN EMBANKMENT AREAS ONE PER LIFT AND/OR ONE PER 1,000 CUBIC YARDS.

THE TOWN OF CANANDAIGUA HAS THE FOLLOWING ADDITIONAL REQUIREMENTS:

ALL OTHER AREAS: 92% MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D1557).

COMPACTION DENSITIES SPECIFIED HEREIN SHALL BE THE PERCENTAGE OF THE MAXIMUM DENSITY OBTAINABLE AT OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED, IN ACCORDANCE WITH ASTM D1557. FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D6938. EACH LAYER OF BACKFILL SHALL BE MOISTENED OR DRIED AS REQUIRED AND SHALL BE COMPACTED TO THE FOLLOWING DENSITIES, UNLESS OTHERWISE SPECIFIED.

UNDER ALL EXISTING OR PROPOSED ROADS, DRIVEWAYS, PARKING AREAS: 95% MAXIMUM MODIFIED PROCTOR DRY

- METHODS AND EQUIPMENT METHODS AND EQUIPMENT PROPOSED FOR COMPACTION SHALL BE SUBJECT TO THE APPROVAL OF THE TOWN. COMPACTION BY ROLLING OR OPERATING HEAVY EQUIPMENT OVER FILL AREAS SHALL BE CONDUCTED IN A MANNER BY WHICH DAMAGE TO EXISTING UTILITIES AND STRUCTURES SHALL BE AVOIDED. ANY PIPE OR STRUCTURE DAMAGED THEREBY SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE TOWN AT THE EXPENSE OF THE DEVELOPER.
- 1. FIELD DENSITY TESTS WILL BE PAID FOR BY THE DEVELOPER.
- 2. THE DEVELOPER SHALL FURNISH ALL NECESSARY SAMPLES FOR LABORATORY TESTS AND SHALL PROVIDE ASSISTANCE AND COOPERATION DURING FIELD TESTS. THE DEVELOPER SHALL PLAN HIS OPERATIONS TO ALLOW ADEQUATE TIME FOR LABORATORY TESTS AND TO PERMIT TAKING OF FIELD DENSITY TESTS DURING COMPACTION. 3. A QUALIFIED TESTING AGENCY SHOULD BE RETAINED DURING THE CONSTRUCTION PHASE OF THE PROJECT TO OBSERVE EARTHWORK AND TO PERFORM NECESSARY TESTS AND OBSERVATIONS DURING SUBGRADE PREPARATION;
- 4. EACH LIFT OF COMPACTED FILL SHOULD BE TESTED, EVALUATED, AND REWORKED AS NECESSARY UNTIL APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF ADDITIONAL LIFTS. EACH LIFT OF FILL SHOULD BE TESTED FOR DENSITY AND WATER CONTENT AT A FREQUENCY OF AT LEAST ONE TEST FOR EVERY 5,000 SQUARE FEET OF COMPACTED FILL IN OPEN AREAS AND EVERY 50 LINEAR FEET OF COMPACTED UTILITY TRENCH BACKFILL.

PROOF-ROLLING; PLACEMENT AND COMPACTION OF CONTROLLED COMPACTED FILLS; BACKFILLING OF EXCAVATIONS

- 5. ANY AREAS FOUND TO BE BELOW REQUIRED COMPACTION DENSITIES SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AT THE DEVELOPER'S EXPENSE. THE METHODS OF OPERATION AND/OR THE BACKFILL MATERIALS SHALL BE CHANGED TO MEET REQUIRED COMPACTIONS.
- 6. INADEQUATE COMPACTION SHALL BE CAUSE FOR THE TOWN TO ISSUE A STOP WORK ORDER ON A PROJECT

EARTHWORK NOTES (CON'T)

- 4. LIFT THICKNESS THE MAXIMUM LIFT THICKNESS UNDER PAVEMENTS, WALKS, AND STRUCTURAL FILLS SHALL BE 12 INCHES. HAND OPERATED COMPACTION FILLS SHALL NOT EXCEED 6 INCHES.
- 5. PROOF ROLLING THE TOWN OF CANANDAIGUA HIGHWAY DEPARTMENT SHALL BE NOTIFIED PRIOR TO A PROOF ROLL (I.E. LOADED TEN WHEELER) OF SUBGRADE AREAS BEING PERFORMED PRIOR TO PLACEMENT OF SUBBASE MATERIALS. AREAS THAT "FAIL" SHALL BE REMOVED AND REPLACED TO ACHIEVE A PASSING SUBGRADE.
- 6. EXISTING SOIL CONDITIONS NO EXISTING SOIL INFORMATION HAS BEEN PROVIDED BY THE OWNER/ DEVELOPER. IT IS ASSUMED THAT SOILS ARE SUITABLE FOR CUTS AND FILLS. FOR PURPOSES OF DESIGN 12" OF TOPSOIL WAS ASSUMED TO BE PRESENT ON AVERAGE THROUGHOUT THE SITE.
- ACCOMPLISH COMPACTION IN FILL AREAS AND DEMONSTRATING SUITABILITY OF SUBGRADE. - CONTRACTOR IS RESPONSIBLE FOR DEWATERING THE EXISTING POND PRIOR TO EXCAVTION/GRADING TO PROPOSED GRADES SHOWN ON THE PLANS. DEWATERING OUTFLOW SHALL BE PUMPED TO A STONE FILTER EXITING TO THE EXISTING OUTFALL SWALE

EROSION CONTROL NOTES

- 1. CERTIFICATION THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WHICH INCLUDES THE "GRADING PLAN" "FROSION CONTROL PLAN" "FROSION CONTROL NOTES" ALONG WITH THE "DRAINAGE REPORT" DEFINES AND MEETS THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) LATEST STORM WATER REGULATIONS.
- 2. CONTRACTOR RESPONSIBILITY ALL CONTRACTORS AND SUB-CONTRACTORS SHALL CERTIFY WITHIN THE SWPPP THAT THEY WILL IMPLEMENT AND MAINTAIN STORM WATER MANAGEMENT PRACTICES.
- 3. INSPECTION EROSION CONTROL (EC) MEASURES INSTALLED AND MAINTAINED BY THE SITE WORK CONTRACTOR ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE: MUNICIPALITY, DESIGN ENGINEER, NYSDEC, AND OWNER'S REPRESENTATIVE. IMMEDIATE ACTION BY THE CONTRACTOR SHALL BE TAKEN IF ADDITIONAL OR CORRECTIVE MEASURES ARE REQUIRED BY ANY ONE OF THESE CITED REVIEWERS. FROSION CONTROL MEASURES NOT SPECIFICALLY SHOWN ON CONTRACT DRAWINGS (I.E., STRAW BALES, COLLARS, FABRICS, ETC.) SHALL BE INSTALLED AS WARRANTED BY FIELD CONDITIONS, AND AS DIRECTED BY THE AFOREMENTIONED REVIEWERS.
- 4. NOTIFICATION AS DESIGN ENGINEER, OUR OFFICE HAS NOTIFIED THE OWNER OF THE INSPECTION REQUIREMENTS UNDER GP-20-01 DISTURBANCES OF 1.0 ACRE OR GREATER REQUIRE THAT THE OWNER FILE A NOTICE OF INTENT (NOI) AND A SWPPP WITH THE NYSDEC UNDER STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT #GP-20-01. SWPPP INSPECTIONS ARE TO BE COMPLETED BY A LICENSED PROFESSIONAL AND INSPECTION REPORTS ARE TO BE PROVIDED TO THE TOWN DEVELOPMENT OFFICE UNTIL THE SITE IS PERMANENTLY STABILIZED AND APPROVED BY THE TOWN CODE ENFORCEMENT OFFICER.
- 5. PRE-CONSTRUCTION THE APPROPRIATE EROSION CONTROL MEASURES AS DEFINED BY THE CONSTRUCTION DOCUMENTS SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- 6. TOPSOIL UPON COMPLETION OF THE STOCKPILE STRIPPING OPERATION, STOCKPILES SHALL BE STABILIZED IN ACCORDANCE TO NYSDEC REGULATIONS.
- 8. DUST THE CONTRACTOR SHALL APPLY WATER AND/OR CALCIUM CHLORIDE, AS CONDITIONS WARRANT, TO CONTROL WIND BORN EROSION. THIS MEASURE APPLIES TO: HAUL ROADS, CUT AND FILL OPERATIONS, SUB-BASE AND ANY
- 9. OPERATION & MAINTENANCE THROUGHOUT THE PERIOD OF CONSTRUCTION AND PRIOR TO ESTABLISHING FINAL GROUND COVER THE SITE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE TEMPORARY EROSION CONTROL MEASURES. FOR EXAMPLE, THE SILTATION FACILITIES SHALL BE RE-EXCAVATED WHEN THE VOLUME (3600 CUBIC FEET/DISTURBED ACRE) IS REDUCED BY ONE-HALF OR MORE OF ITS SPECIFIED CAPACITY AND/OR THE MATERIAL IS WITHIN ONE FOOT OF THE DISCHARGE POINT.
- 10. WORK STOPPAGE IN AREAS WHERE DISTURBANCE ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, STABILIZATION MEASURES SHOULD BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN 14 DAYS (WITHIN 7 DAYS FOR SITES WITH OVER 5 ACRES OF DISTURBANCE OR DISCHARGES TO A 303D WATERBODY, OR WITHIN 3 DAYS IF BETWEEN NOVEMBER 15TH AND APRIL 1ST).

11. TOWN OF CANANDAIGUA REQUIREMENTS -

PERENNIAL RYEGRASS

- DEVELOPMENT WITHIN THE CANANDAIGUA LAKE WATERSHED THAT REQUIRES POST CONSTRUCTION WATER QUALITY MEASURES SUCH AS STORMWATER MANAGEMENT FACILITIES, THE DEVELOPER IS REQUIRED TO PROVIDE DAILY OBSERVATION OF THE SITE BY A LICENSED PROFESSIONAL OR A CERTIFIED PERSONS IN EROSION AND SEDIMENT CONTROL (CPESC) UNTIL SUCH TIME THAT THE MASS GRADING OF THAT SECTION OR PHASE IS COMPLETED AND ALL STORMWATER MANAGEMENT COMPONENTS OF THE SWPPP ARE INSTALLED AND FUNCTIONING.
- DEVELOPMENT WITHIN THE CANANDAIGUA LAKE WATERSHED THAT WILL DISTURB MORE THAN 5-ACRES AT ONE TIME. SHALL BE REQUIRED TO COORDINATE THE REGULAR STORMWATER OBSERVATIONS (REQUIRED BY SPDES GENERAL PERMIT) WITH THE WATERSHED INSPECTOR AND THE WATERSHED PROGRAM MANAGER

THE SURFACE TWO INCHES OF SOIL SHOULD BE LOOSENED BY DISKING, RAKING, OR BACK-BLADING WITH A BUILL DOZER

- 12. TEMPORARY SEED TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE PROVIDED AS FOLLOWS:
- IMMEDIATELY FERTILIZE WITH 300 LBS. PER ACRE (OR 7 LBS. PER 1,000 SQ. FT.) OF 10-0-10 FERTILIZER (CONTAINING NO PHOSPHORUS). IMMEDIATELY SEED WITH THE FOLLOWING MIX: LBS./1,000 SQ. FT. ANNUAL RYEGRASS
- WHITE CLOVER (+ INNOCULANT) SEED SHOULD HAVE A GERMINATION RATE OF AT LEAST 85 PERCENT, AND MINIMAL INERT MATERIAL.
- 13. PERMANENT SEED UPON COMPLETION OF WORK WITHIN THE R.O.W., DISTURBED AREAS WITH IN THE R.O.W. SHALL BE STABILIZED USING THE FOLLOWING PERMANENT LAWN SEEDING MIX. UPON COMPLETION OF GRADING AND CONSTRUCTION OF EACH TOWNHOME BUILDING, ALL AREAS DISTURBED IN CONJUNCTION WITH THE TOWNHOME CONSTRUCTION SHALL BE STABILIZED WITH THE FOLLOWING LAWN SEEDING MIX.

	LBS./ACRE	% BY PURITY	% GERM.
'PENNFINE' PERENNIAL RYE GRASS	35	85	85
'PENNLAWN' RED FESCUE	35	97	80
KENTUCKY BLUEGRASS	30	85	80

SEEDING RATE: 6.0 LBS. PER 1,000 SQ. FT. MULCH: STRAW OR WOOD FIBER MULCH USED WITH A HYDROSEEDING METHOD, AT TWO TONS PER ACRE WITH TACKIFIER

STARTING FERTILIZER (CONTAINING NO PHOSPHORUS): 5:0:10 AT 20 LBS. PER 1,000 SQ. FT.

14. SLOPES -UPON COMPLETION OF GRADING, SLOPES WITH A GRADIENT OF ONE FOOT VERTICAL TO THREE FEET HORIZONTAL (1 ON 3) OR GREATER SHALL BE: TOPSOILED, SEEDED, FERTILIZED, MULCHED AND STABILIZE WITH AN EROSION CONTROL BLANKET. RILLS SHALL BE IMMEDIATELY ADDRESSED AND STABILIZED AS NEEDED WITH JUTE MESH OR REAPPLICATION OF MULCH. ALL OTHER SLOPES SHALL TOPSOILED, SEEDED, FERTILIZED AND MULCHED. SLOPES SHALL BE FINE

'PENNGIFT' CROWNVETCH BIRDSFOOT TREFOIL	LBS./ACRE	% BY PURITY	% GERM.
	40	98	65
	16	98	90
TALL FESCUE	20	90	85

MULCH: STRAW OR WOOD FIBER MULCH USED WITH A HYDROSEEDING METHOD,

AT TWO TONS PER ACRE WITH TACKIFIER

GRADED WITH A MINIMUM OF 6 INCHES OF TOPSOIL AND SEEDED WITH THE FOLLOWING SEED MIX:

- SEEDING RATE: 75 LBS. PER ACRE LIME: RATE OF 1,000 LBS. PER ACRE AS NECESSARY TO REACH PH OF 6.0 INOCULANT: RATE AS RECOMMENDED BY THE MANUFACTURER (FOR HYDROSEEDING, USE FOUR TIMES THE MANUFACTURER'S RECOMMENDED RATE.)
- 15. MONITORING ALL SEEDED AREAS ARE TO BE MONITORED FOR GERMINATION AND EROSION. ERODED AREAS ARE TO BE BACKFILLED, FINE GRADED, AND RE-SEEDED. AREAS THAT FAIL TO GERMINATE A MINIMUM OF 75% SHALL BE RE-SEEDED.
- 16. BUILDER RESPONSIBILITY THE HOME BUILDER SHALL BE RESPONSIBLE FOR IMPLEMENTING INDIVIDUAL LOT EROSION CONTROL MEASURES AS SHOWN ON THE PLAN DETAIL FOR INDIVIDUAL HOUSE CONSTRUCTION. THE MEASURES ARE TO REMAIN IN PLACE UNTIL HOUSE CONSTRUCTION IS COMPLETE AND THE LAWN IS ESTABLISHED.
- 17. 5-ACRE WAIVER IF THE TOTAL ACREAGE TO BE DISTURBED IS GREATER THAN 5 ACRES, THEN A 5-ACRE WAIVER FROM

• INCREASED SITE INSPECTION FREQUENCY TO AT LEAST TWO (2) SITE INSPECTIONS EVERY SEVEN (7) CALENDAR DAYS FOR

AS LONG AS THE DISTURBANCE EXCEEDS FIVE (5) ACRES. THE TWO (2) INSPECTIONS MUST BE SEPARATED BY AT LEAST TWO

- IF A 5-ACRE WAIVER HAS BEEN GRANTED AND THE SITE DISTURBANCE IS OVER 5 ACRES. IN AREAS WHERE SOIL. DISTURBANCE HAS TEMPORARILY CEASED. TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES SHALL BE INSTALLED AND/OR IMPLEMENTED WITHIN SEVEN (7) DAYS FROM THE DATE THE SOIL DISTURBANCE ACTIVITY CEASED.
- APPROVED BY: APPROVED BY: APPROVED BY: TOWN ENGINEER PLANNING BOARD CHAIRPERSON TOWN HIGHWAY & WATER SUPERINTENDENT

CANANDAIGUA LAKE COUNTY SEWER DISTRICT

- 1. SEWER PERMITS AND PERMITS FOR WORK WITHIN ONTARIO COUNTY HIGHWAY RIGHTS OF WAY MUST BE PURCHASED IN ADVANCE AT THE ONTARIO COUNTY PUBLIC WORKS OFFICE LOCATED AT 2962 COUNTY ROAD 48 IN THE TOWN OF HOPEWELL. CALL 585-396-4000 FOR INFORMATION.
- SANITARY SEWER CONSTRUCTION AND/OR IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT. STANDARDS AND SPECIFICATIONS OF THE CANANDAIGUA LAKE COUNTY SEWER DISTRICT, N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION, N.Y.S. DEPARTMENT OF HEALTH, THE LATEST EDITION OF <u>RECOMMENDED</u> STANDARDS FOR WASTEWATER FACILITIES AND ANY OTHER AGENCIES HAVING JURISDICTION.
- 3. SANITARY SEWER MAIN GRAVITY PIPE SHALL BE 8" DIA. OR LARGER PVC CLASS SDR-35 OR SDR-21 WITH ELASTOMERIC JOINTS. LATERALS SHALL BE 4" DIA. SDR-21 WITH ELASTOMERIC JOINTS. ACTUAL FIELD CONDITIONS MAY REQUIRE ADDITIONAL PIPE OR BACKFILL REINFORCEMENT. THE SANITARY SEWER WILL BE DESIGNED BY THE DEVELOPER'S ENGINEER. FIELD CHANGES MUST BE APPROVED BY THE SEWER DISTRICT. 4 THE SANITARY SEWER IS DESIGNED TO PROVIDE GRAVITY SERVICE TO ALL ADJACENT BUILDING BASEMENTS. EXCEPTIONS HAVE BEEN APPROVED BY THE SEWER DISTRICT AND ARE CLEARLY NOTED ON THE UTILITY PLAN.
- BASEMENT FLOOR ELEVATIONS WILL BE SHOWN ON THE SANITARY SEWER PROFILE FOR EACH LOT THAT WILL NOT BE SERVED BY GRAVITY LATERALS. 5. THE CONTRACTOR SHALL LOCATE, MARK AND PRESERVE ANY RIGHT OF WAY MONUMENTS OR SURVEY CONTROL
- 7. DEWATERING THE CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING PRACTICES INCLUDING DRYING OF MATERIAL TO 6. UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UTILITIES. EXCAVATING TO EXPOSE THE UTILITY. IF NECESSARY IN THE AREA OF CONSTRUCTION. BEFORE COMMENCING CONSTRUCTION. CONTACT U.F.P.O. AT 1-800-962-7962 AT LEAST 72 HOURS PRIOR TO
 - 7. THE SANITARY SEWER SHALL BE LOCATED A MINIMUM HORIZONTAL DISTANCE OF 10' FROM ANY EXISTING OR PROPOSED WATER MAIN (AS MEASURED FROM THE OUTSIDE OF THE SEWER TO THE OUTSIDE OF THE WATER MAIN). IN CASES WHERE THE SANITARY SEWER CROSSES A WATER MAIN. THE MINIMUM VERTICAL SEPARATION SHALL BE 18" (MEASURED OUT-TO-OUT). THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
 - 8. A LETTER OF CREDIT, OR ENGINEER APPROVED EQUIVALENT, FOR AN AMOUNT EQUAL TO THE ESTIMATED COST OF CONSTRUCTION, INSPECTION, RECORD DRAWINGS, DEDICATION DOCUMENTS AND RELATED EXPENSES FOR THE SANITARY SEWER PLUS AN ADDITIONAL 10% FOR CONTINGENCIES MUST BE SUBMITTED TO THE
 - COMMISSIONER OF PUBLIC WORKS BEFORE A PERMIT IS ISSUED OR SEWER CONSTRUCTION MAY COMMENCE. 9. THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH SHOP DRAWINGS AND MATERIAL SPECIFICATIONS THAT HAVE BEEN PRE-APPROVED BY THE DESIGN ENGINEER BEFORE A PERMIT WILL BE ISSUED.

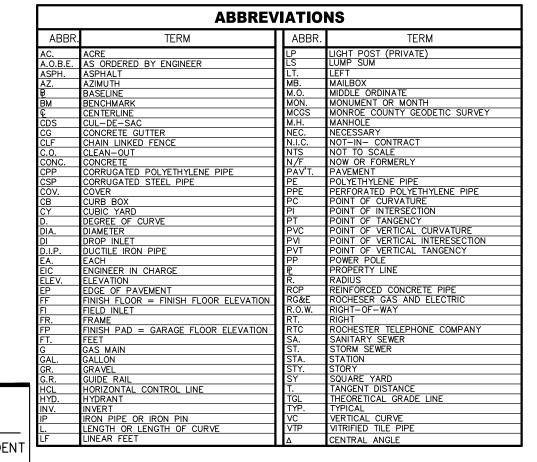
10. THE DEVELOPER IS RESPONSIBLE FOR THE PREPARATION OF ALL REQUIRED EASEMENT MAPS AND DESCRIPTIONS

AND SUBMISSION TO THE DISTRICT FOR APPROVAL. PERMITS WILL NOT BE ISSUED PRIOR TO THE EASEMENT

- DOCUMENTS BEING SIGNED BY THE COMMISSIONER AND RECORDED IN THE COUNTY CLERK'S OFFICE. 11. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REQUIREMENTS IN ALL ASPECTS OF CONSTRUCTION, PAYING PARTICULAR ATTENTION TO REQUIREMENTS FOR OPEN TRENCH AND CONFINED SPACE. ENTRY INTO ANY DISTRICT STRUCTURE MUST COMPLY WITH ALL DISTRICT AND OSHA APPROVED PROCEDURES
- 12. WHEN SANITARY SEWER CONSTRUCTION ACTIVITIES BEGIN, THE CONTRACTOR SHALL PLUG THE MAIN AT THE CONNECTING MANHOLE. PLUGS SHALL NOT BE REMOVED UNTIL THE COMPLETED SEWER LINE IS TESTED AND APPROVED FOR USE
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SANITARY FLOWS AT ALL TIMES BY METHODS ACCEPTABLE TO THE DEVELOPER'S ENGINEER AND THE DISTRICT. 14. THE SEWER LINE SHALL BE LAID USING A PIPE LASER. GRADE SHALL BE CHECKED EVERY 100 FEET USING A
- SURVEYOR'S LEVEL TO INSURE THE CORRECT GRADE IS BEING MAINTAINED 15. FLOOR DRAINS IN THE BASEMENT OR GARAGE ARE TO BE CONNECTED TO THE SANITARY SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION OR FOOTER DRAINS INSTALLED TO INTERCEPT UNCONTAMINATED GROUND WATER. ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH EFFLUENT LIMITS OF THE ONTARIO COUNTY SEWER USE LAW. FOUNDATION AND FOOTER DRAINS SHALL BE CONSTRUCTED IN A MANNER THAT WILL PROHIBIT
- GROUND WATER FROM DRAINING INTO THE SANITARY SEWER PIPE CRADLE 16. OPENINGS IN EXISTING MANHOLES SHALL BE MADE WITH A CORE SAW. A RUBBER, WATER-TIGHT PIPE-TO-MANHOLE BOOT ADAPTER OR OTHER DISTRICT APPROVED CONNECTOR CONFORMING TO ASTM C-923, SHALL BE
- USED TO MAKE THE CONNECTION TO THE EXISTING MANHOLE. 17. THE CONTRACTOR SHALL PERFORM ALL EXISTING MANHOLE MODIFICATION OPERATIONS IN SUCH A MANNER TO ENSURE NO DEBRIS OR CONSTRUCTION MATERIALS ENTER THE SANITARY SEWER SYSTEM.
- 18. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN PERFORMING EXISTING MANHOLE MODIFICATION OPERATIONS. ANY DAMAGE TO THE EXISTING SLAB, BARREL OR ANY OTHER PART OF THE STRUCTURE SHALL BE REPLACED IN KIND TO THE SATISFACTION OF THE CANANDAIGUA LAKE COUNTY SEWER DISTRICT
- REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. 19. EXISTING MANHOLES THAT ARE MODIFIED IN ANY MANNER SHALL BE SUBJECT TO VACUUM TESTING PER DISTRICT REQUIREMENTS
- 20. CONNECTIONS REQUIRING OPENINGS IN ASBESTOS CEMENT PIPE WILL BE DESIGNED, INSPECTED AND CERTIFIED BY THE DESIGN ENGINEER OR REPRESENTATIVE THEREOF.
- 21. ALL PIPES ENTERING AND EXITING MANHOLES SHALL HAVE A FLEXIBLE WATER-TIGHT JOINT NO LESS THAN 1 FOOT AND NO GREATER THAN 3 FEET FROM THE OUTSIDE WALL OF THE MANHOLE. 22. MANHOLES DEEPER THAN 14 FEET, LESS THAN 5 FEET IN DEPTH, OR HAVING THREE OR MORE PIPE CONNECTIONS

SHALL HAVE A MINIMUM INSIDE DIAMETER OF 5 FEET.

- 23. ANY EXCAVATION NOT BACKFILLED BY THE END OF THE WORKDAY SHALL BE FENCED, BARRICADED AND LIGHTED FOR SAFETY AND PROTECTION OF THE PUBLIC. 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SANITARY MAINS, STRUCTURES AND
- APPURTENANCES, IF ANY, NEEDED TO COMPLETE THE WORK 25. EXISTING LATERALS TO BE DISCONNECTED MUST BE PERMANENTLY PLUGGED OR CAPPED AT THE EASEMENT OR RIGHT OF WAY LINE UNDER THE DIRECTION OF THE CANANDAIGUA LAKE COUNTY SEWER DISTRICT SUPERVISOR. THE CONTRACTOR IS REQUIRED TO OBTAIN A PERMIT PRIOR TO PERFORMING THE WORK. THE LOCATION OF THE
- PLUG OR CAP SHALL BE RECORDED FOR AS-BUILT DRAWING PURPOSES 26. LATERAL CLEAN OUTS WILL BE PROVIDED AT THE RIGHT OF WAY LINE OR SANITARY SEWER EASEMENT LINE,
- WHICHEVER IS FURTHEST FROM THE SEWER MAIN, AND EVERY 90 LINEAR FEET THEREAFTER. 27. THE CONTRACTOR SHALL TAKE AND RECORD FIELD MEASUREMENTS TO ALL WYES, CLEAN OUTS AND LATERAL PLUGS AS WELL AS LENGTHS OF RISERS AND DEPTHS AT LATERAL PLUGS. THE INFORMATION WILL BE GIVEN TO THE DEVELOPER'S ENGINEER FOR USE IN PREPARING RECORD DRAWINGS.
- 28. FOLLOWING PROJECT COMPLETION AND 30 DAYS AFTER THE BACKFILL HAS BEEN IN PLACE THE FOLLOWING TESTS SHALL BE PERFORMED ON GRAVITY SANITARY SEWER MAIN:
- a. INFILTRATION/EX-FILTRATION TESTS ON SEWER MAIN AND MANHOLES. AIR PRESSURE TESTING FOR SEWER MAINS AND VACUUM TESTING FOR MANHOLES IS RECOMMENDED. TESTS ON MANHOLES MAY BE PERFORMED ONLY AFTER MANHOLE BENCHES AND INVERTS ARE COMPLETE. AIR PRESSURE TESTING OF PLASTIC PIPES HALL CONFORM TO ASTM F-1417 AND AIR PRESSURE TESTING OF CONCRETE MANHOLES SHALL CONFORM TO ASTM C-1244.
- b. A DEFLECTION TEST USING A RIGID BALL OR MANDREL HAVING A DIAMETER OF 95% OF THE INSIDE
- DIAMETER OF THE PIPE. MECHANICAL PULLING DEVICES WILL NOT BE USED. c. THE SEWER LINE WILL BE TELEVISED AND LAMPED AFTER ALL OTHER TESTS ARE COMPLETE. A GOOD QUALITY COPY OF THE DVD OR VIDEO-TAPE AND RELATED RECORDS WILL BE SUBMITTED FOR EVALUATION TO CANANDAIGUA LAKE COUNTY SEWER DISTRICT, PRIOR TO TELEVISING THE SEWER LINE SHALL BE FLUSHED AND CLEARED OF DIRT, STONES AND DEBRIS. IF PERMISSION IS GRANTED TO REMOVE THE PLUG AT THE CONNECTING MANHOLE PRIOR TO FLUSHING OPERATION, PROVIDEDOWNSTREAM SCREENS OR OTHER DEVICES TO PREVENT DEBRIS FROM ENTERING THE COUNTY'S SEWER SYSTEM. SECTIONS OF PIPE
- REPAIRED OR RE-FLUSHED WILL BE RE-TELEVISED UNTIL ACCEPTABLE. 29. UPON PROJECT COMPLETION AND DISTRICT APPROVAL, THE DEVELOPER'S ENGINEER WILL SUBMIT RECORD DRAWINGS ON MYLAR AND IN ELECTRONIC FORMAT, TIED TO NAD83 HORIZONTAL AND NAVD 88 VERTICAL DATUM. THE DRAWINGS WILL SHOW ACTUAL FIELD MEASURED LOCATIONS, LENGTHS, ELEVATIONS AND TYPES OF PIPE AND APPURTENANCES, INCLUDING WYES AND LATERALS, AS WELL AS PROFILES, EASEMENTS AND ANY OTHER RELATED INFORMATION REQUESTED BY THE DISTRICT. MYLAR DRAWINGS WILL BE STAMPED/SEALED AND SIGNED BY A PROFESSIONAL ENGINEER OR SURVEYOR, AND SHALL BE AT STANDARD ENGINEERING SCALE (L" = 50' MIN.), AND ON STANDARD SIZED DRAWINGS NO SMALLER THAN 11" X 17" AND NO LARGER THAN 24" X 36". PROJECT MONUMENTATION AND PERMANENT BENCHMARKS SHALL BE SHOWN WITH COORDINATE AND/OR ELEVATION
- 30. THE DEVELOPER IS RESPONSIBLE FOR PROVIDING EASEMENT MAPS AND DESCRIPTIONS AND SEWER DEDICATION DOCUMENTS. MAPS WILL BE RECORDED WITH DEDICATION DOCUMENTS IN THE ONTARIO COUNTY CLERK'S
- OFFICE, AND THEREFORE NEED TO BE SUBMITTED ON LEGAL SIZE (8 1/2" X 14") PAPER. 31. PRIOR TO RELEASING THE RETAINAGE FROM THE ORIGINAL LETTER OF CREDIT, A MAINTENANCE BOND FOR A MINIMUM OF 10% OF THE TOTAL SANITARY SEWER-RELATED COST OF THE PROJECT IN FAVOR OF THE CANANDAIGUA LAKE COUNTY SEWER DISTRICT WILL BE SUBMITTED TO THE COMMISSIONER. THE BOND WILL EXPIRE NO SOONER THAN ONE YEAR FROM THE DATE OF DEDICATION OF THE SEWER, OR THE RELEASE DATE OF THE RETAINAGE FROM THE LETTER OF CREDIT, WHICHEVER OCCURS LAST.



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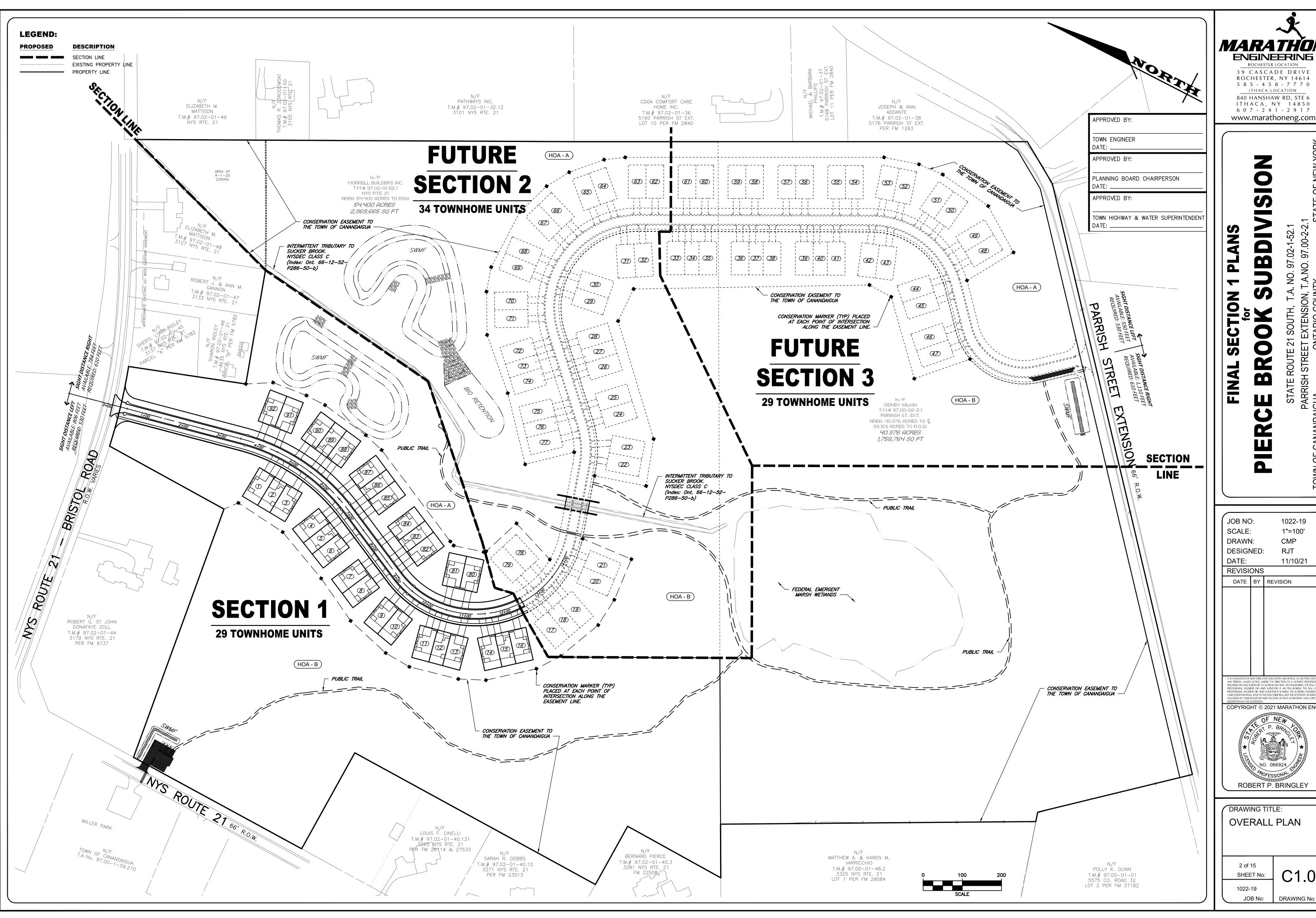
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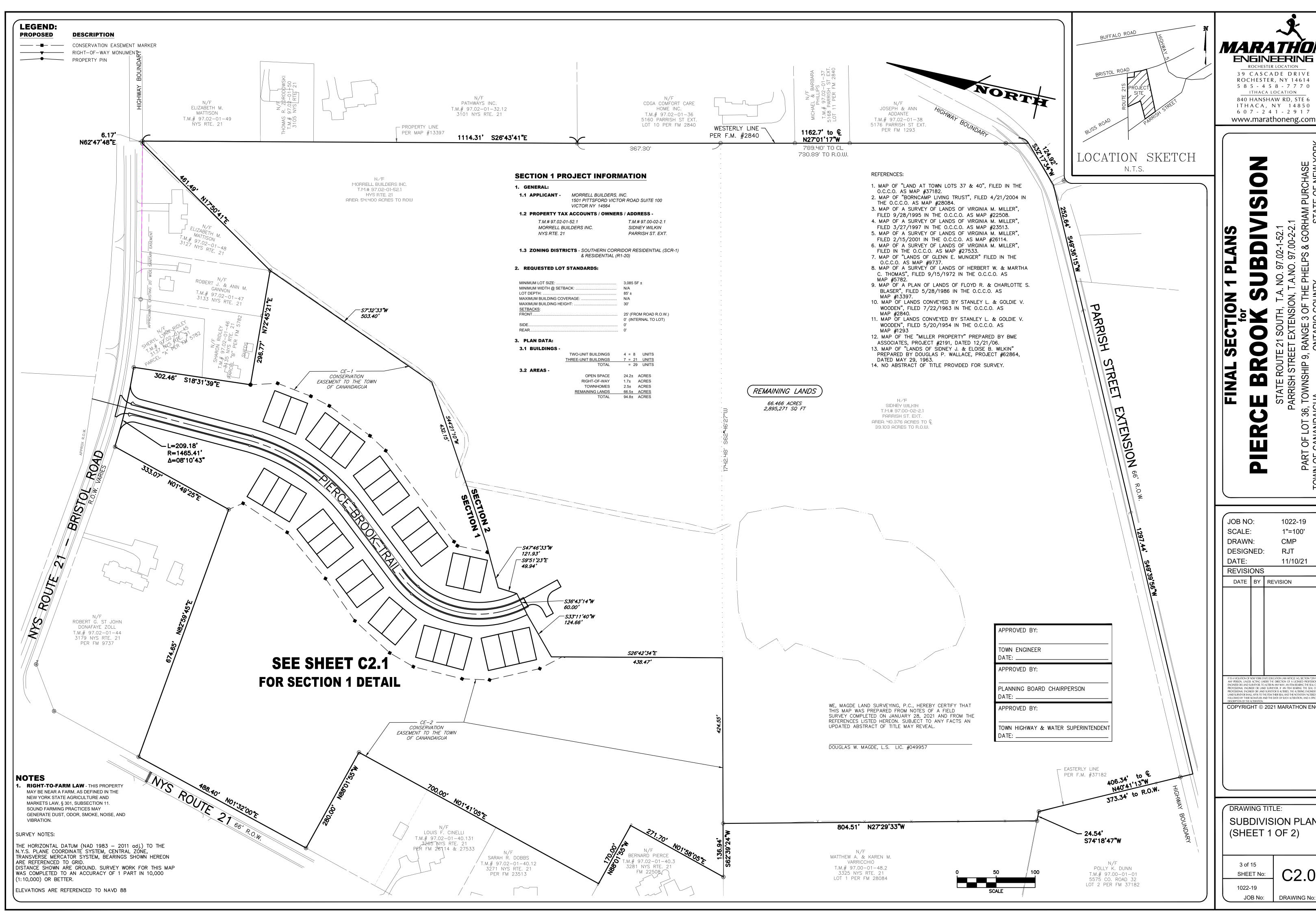


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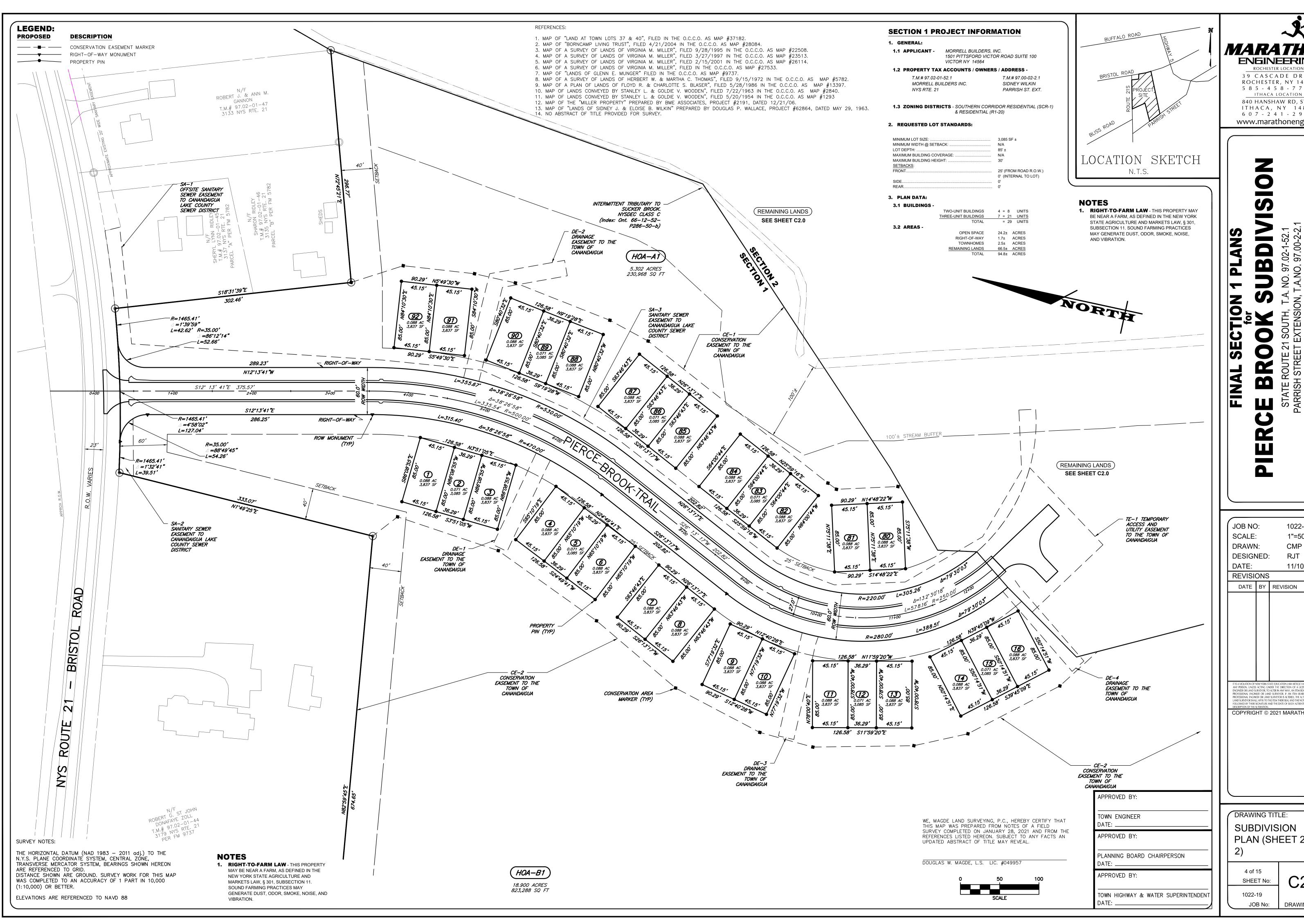


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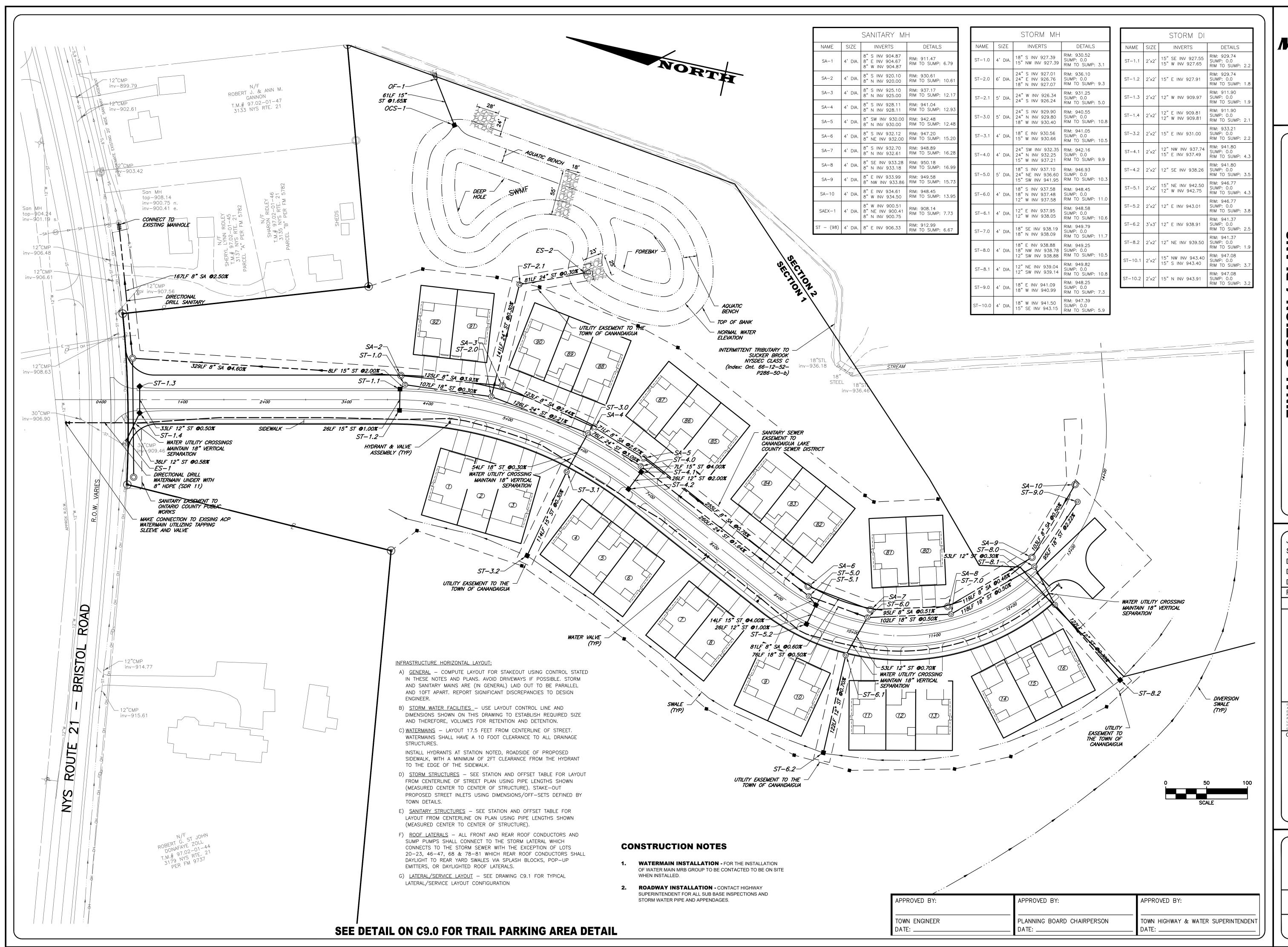
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4 of 15 SHEET No: 1022-19

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ROCHESTER LOCATION

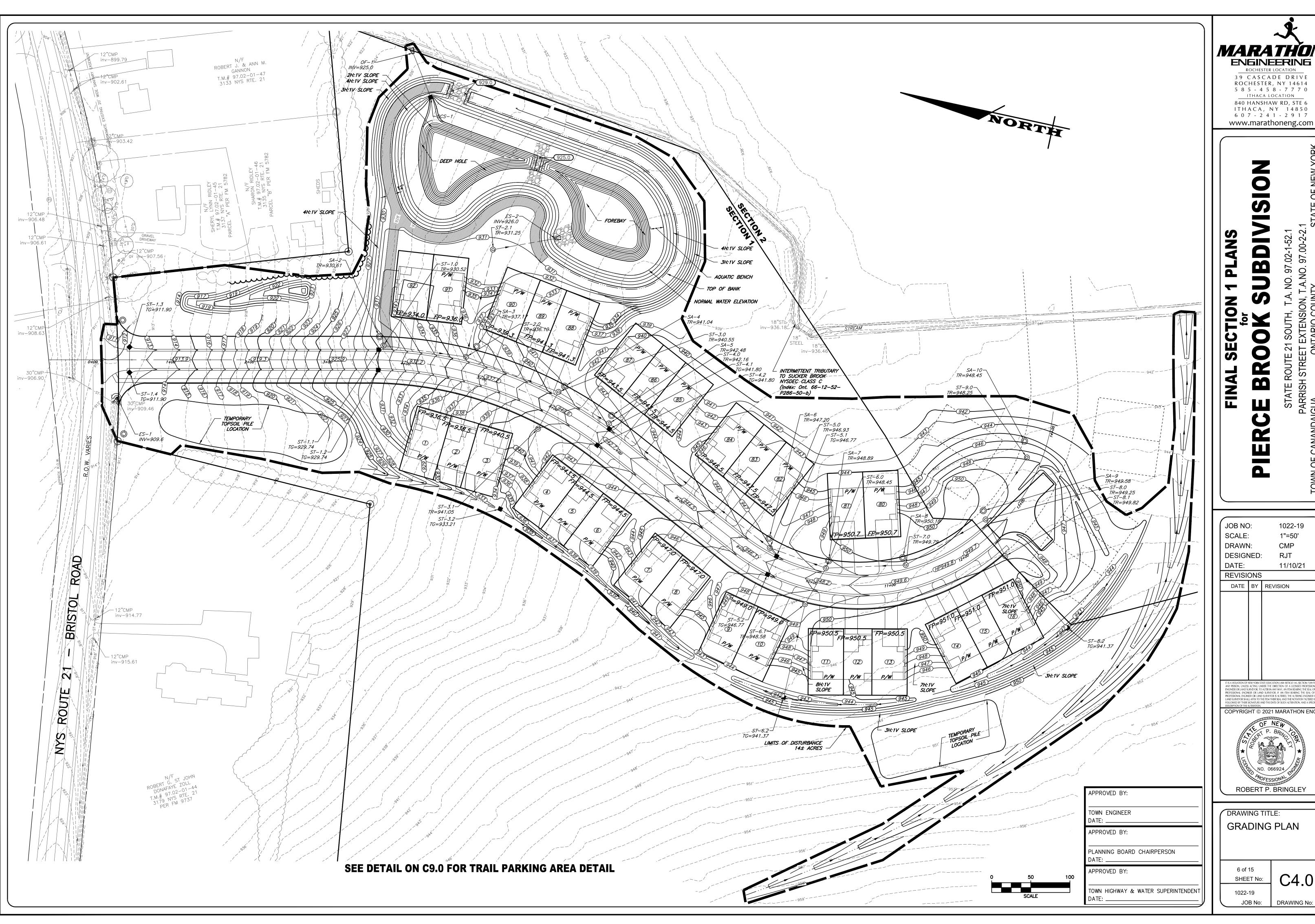
1THACA, NY 14850 607-241-2917 www.marathoneng.com

FINAL SECTION 1 PLANS
for
ERCE BROOK SUBDIVISIO
STATE ROUTE 21 SOUTH, T.A. NO. 97.02-1-52.1

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DRAWING TITLE:
UTILITY PLAN

5 of 15
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ROCHESTER LOCATION

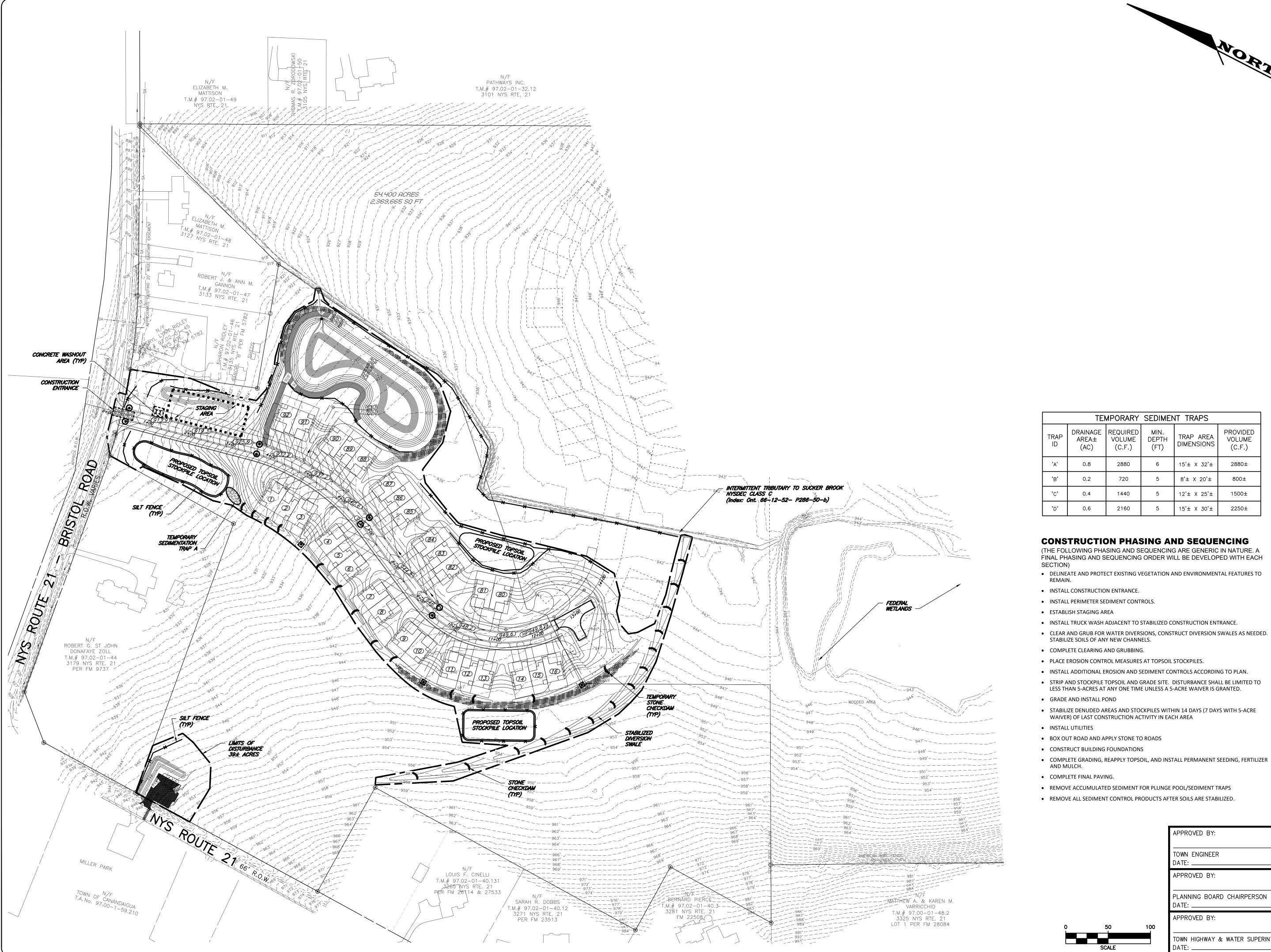
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DRAWING TITLE: **GRADING PLAN** SHEET No: 1022-19

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39 CASCADE DRIVE ROCHESTER, NY 14614 5 8 5 - 4 5 8 - 7 7 7 0 ITHACA LOCATION 840 HANSHAW RD, STE 6 ITHACA, NY 14850

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DRAWING TITLE: **EROSION AND** SEDIMENT CONTROL PLAN

ROBERT P. BRINGLEY

7 of 15 SHEET No: 1022-19

DRAWING No:

JOB No:

APPROVED BY: TOWN ENGINEER APPROVED BY: PLANNING BOARD CHAIRPERSON

FOWN HIGHWAY & WATER SUPERINTENDENT

APPROVED BY:

TEMPORARY SEDIMENT TRAPS

MIN. DEPTH

(FT)

TRAP AREA

DIMENSIONS

15'± X 32'±

8'± X 20'±

15'± X 30'±

PROVIDED

VOLUME

(C.F.)

2880±

DRAINAGE REQUIRED AREA± VOLUME

(C.F.)

2880

720

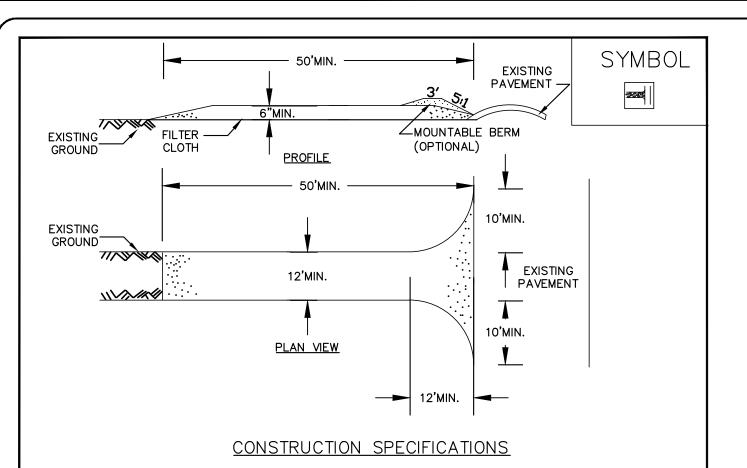
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- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MIN. LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWELVE (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
- 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,
- 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

DROPPED, TACKED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

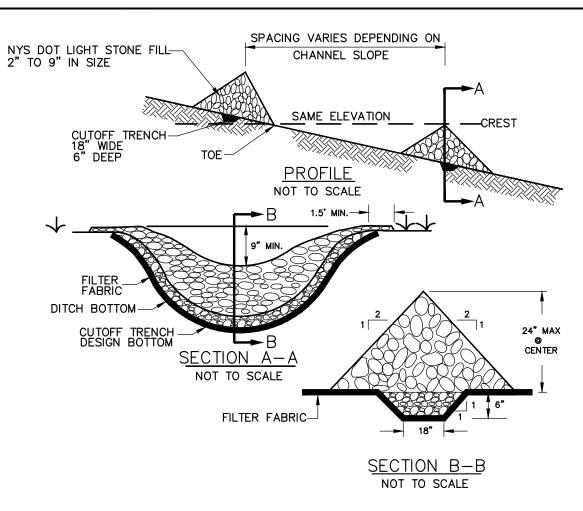
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

EMBANKMEÑT ✓

2'APRON'

STABILIZED

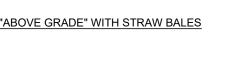


CONSTRUCTION SPECIFICATIONS

SCALE: N.T.S

- 1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATION SHOWN ON IN THE PLAN
- 2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE UPSTREAM DAM.
- 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM,
- 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- 5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OF BLOCKAGE FROM DISPLACED STONES. MAXIMUM DRAINAGE AREA - 2 ACRES

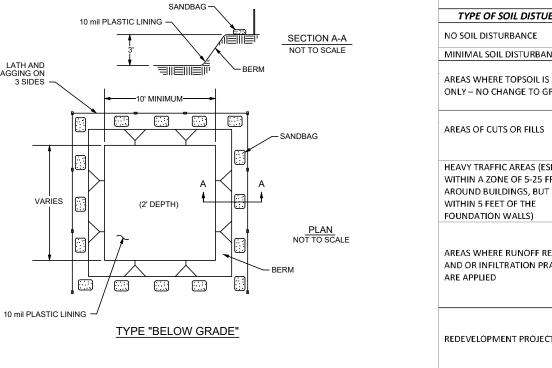
STRAW BALE (OPTIONAL) CONCREŤE SECTION B-B CONCRETE WASHOUT (OR EQUIVALENT) (2' DEPTH) 10 mil PLASTIC LINING TYPE "ABOVE GRADE" WITH STRAW BALES

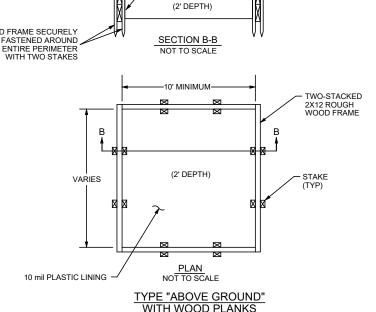


1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD. 2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT 3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE

OF THE WORK AND DISPOSED OF OR RECYCLED. 4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.







10 mil PLASTIC LINING

SOIL RESTORATION REQUIREMENTS TYPE OF SOIL DISTUBANCE RESTORATION REQUIREMENTS COMMENTS/EXAMPLES PRESERVATION OF NATURAL RESTORATION NOT REQUIRED FEATURES CLEARING & GRUBBING MINIMAL SOIL DISTURBANCE HSG A & B HSG C & D PROTECT AREA FROM ANY AREAS WHERE TOPSOIL IS STRIPPED APPLY 6 INCHES APPLY 6 INCHES ONGOING CONSTRUCTION ONLY - NO CHANGE TO GRADE OF TOPSOIL ACTIVITIES HSG A & B HSG C & D AERATE & APPLY APPLY FULL SOIL 6 INCHES OF RESTORATION** HEAVY TRAFFIC AREAS (ESEPCIALLY WITHIN A ZONE OF 5-25 FFET APPLY FULL SOIL RESTORATION (DE-AROUND BUILDINGS, BUT NOT COMPACTION & COMPOST ENHANCEMENT) KEEP CONSTRUCTION FOUIPMENT SOIL RESTORATION IS NOT FROM CROSSING THESE AREAS, TO AREAS WHERE RUNGER REDUCTION | REQUIRED BUT MAY BE APPLIED TO | PROTECT NEWLY INSTALLED AND OR INFILTRATION PRACTICES ENHANCE THE REDUCTION PRACTICES FROM ANY ONGOING SPECIFIED FOR APPROPRIATE CONSTRUCTION ACTIVITIES, PRACTICES CONSTRUCT A SINGLE PHASE SOIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN REDEVELOPMENT PROJECTS AREAS WHERE EXISTING IMPERVIOUS AREAS WILL BE CONVERTED TO PERVIOUS

*Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.

** Per "Deep Ripping and De-compaction, DEC 2008"

NOTES:

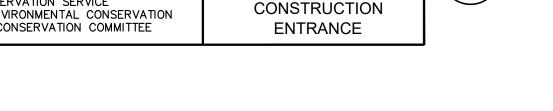
- 1. DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE. THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS
- APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
- TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED. RIPPER, TRACTOR-MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST
- ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE
- APPLY TOPSOIL TO A DEPTH OF 6 INCHES

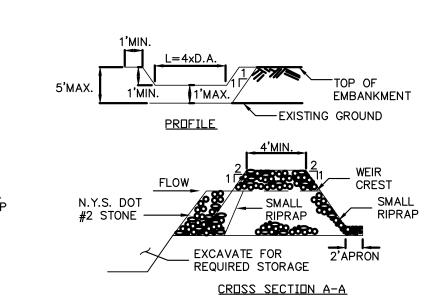
**SOIL RESTORATION APPLIES TO ALL DISTURBED AREAS THAT ARE TO REMAIN AS PERVIOUS AREAS AFTER FINAL CONSTRUCTION.





STONE CHECK DAM



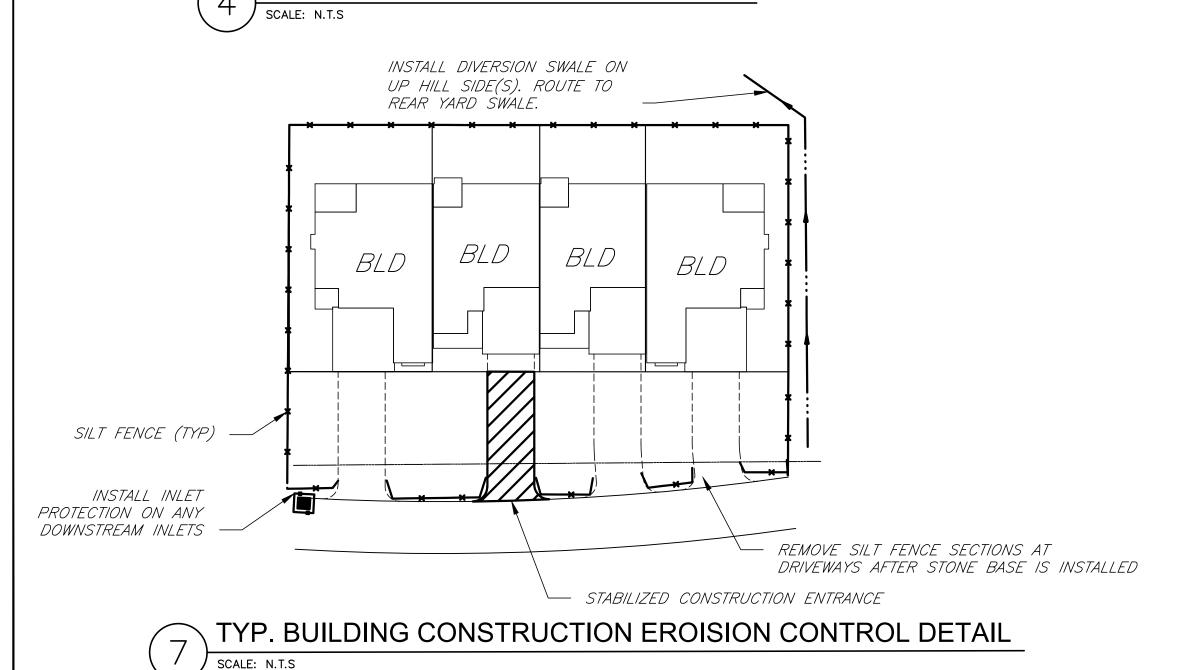


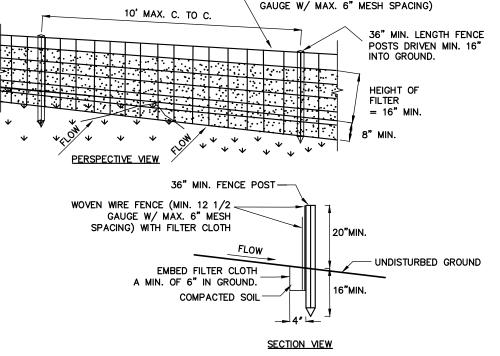
CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED. 2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER—SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.

- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER. 4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP. 5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. IT SHALL BE PLACED ON SITE AND STABILIZED.
- . THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. . CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED. 8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

MAXIMUM DRAINAGE AREA 5 ACRES TEMPORARY SEDIMENTATION TRAP



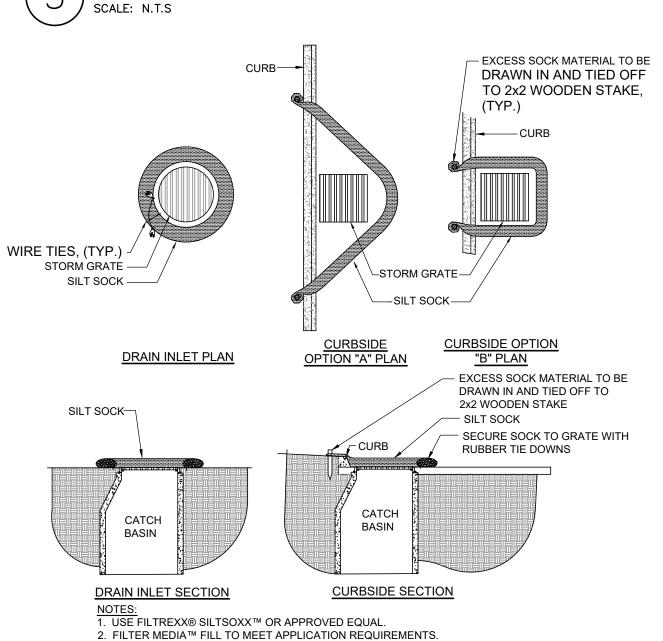


WOVEN WIRE FENCE (MIN. 14 1/2

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES, POSTS SHALL BE STEEL "T" OF "U" TYPE OF HARDWOOD.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKKA T140N, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- 6. ENVIRO-FENCE WITH INTEGRAL MESH IS AN ACCEPTABLE SUBSTITUTE.

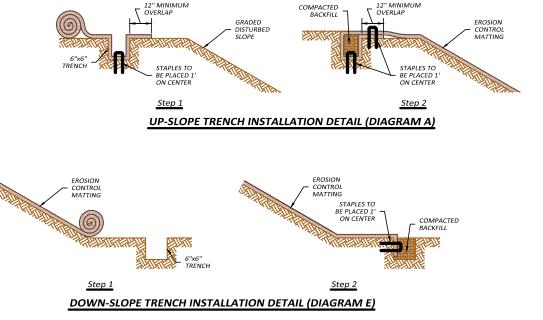
SILT FENCE

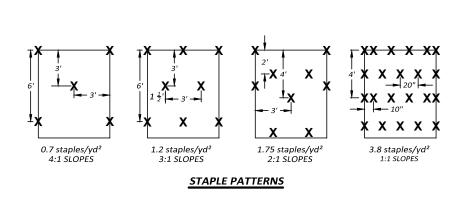
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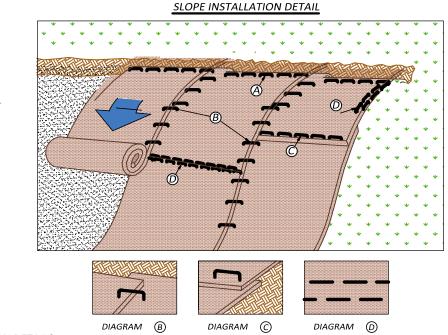


3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

\ PAVED SURFACE INLET PROTECTION



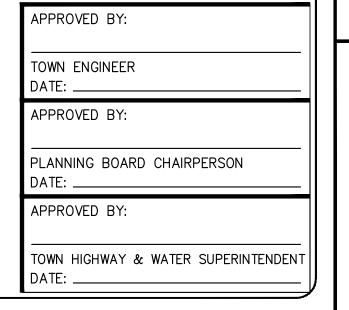




CONSTRUCTION DETAILS

- 1. DIG A 6" BY 6" TRENCH BOTH UP-SLOPE AND DOWN-SLOPE OF THE AREA THE MATTING IS TO BE APPLIED.
- PREPARE THE SLOPE SOIL SURFACE (RAKING, SEEDING AND FERTILIZING). 2. BEGIN BY PLACING THE BLANKET A MINIMUM OF 12" DOWN-SLOPE OF THE UP-SLOPE TRENCH. SECURE THE BLANKET AT THE BOTTOM OF THE TRENCH WITH STAPLES PLACED 12" APART, BACKFILL AND COMPACT THE TRENCH, APPLY SEED, AND FOLD THE BLANKET OVER SOIL, SECURE WITH A ROW OF STAPLES PLACED 12" APART ACROSS
- THE WIDTH OF THE BLANKET. (SEE DIAGRAM A) 3. ROLL THE BLANKET VERTICALLY DOWN THE SLOPE. SECURE USING THE APPROPRIATE STAPLE PATTERN BELOW,
- SPECIFIED BY SLOPE. (SEE STAPLE PATTERNS) 4. PARALLEL BLANKETS MUST BE OVERLAPPED BY A MINIMUM OF 4", AND SECURED WITH A ROW OF STAPLES PLACED APPROXIMATELY 3'-0" APART. (SEE DIAGRAM B)
- 5. ADDITIONAL VERTICAL BLANKETS CAN BE JOINED USING A MINIMUM 4" OVERLAPPING OR SHINGLE STYLE (SEE DIAGRAMS C) IN THE DIRECTION OF WATER FLOW. CONNECT THE BLANKETS BY PLACING STAPLES APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKETS.
- 6. FOR MAXIMUM PERFORMANCE A CHECK SLOT SHOULD BE PLACED AT 25'-40' INTERVALS. PLACE A ROW OF STAPLES 4" APART ALONG THE ENTIRE WIDTH OF THE SLOPE. A SECOND ROW SHOULD BE PLACED 4" BELOW IN A STAGGERED PATTERN. THEN CONTINUE WITH GENERAL INSTALLATION. (SEE DIAGRAMS D)
- 7. THE END OF BLANKET MUST BE SECURED IN A 6" X 6" TRENCH WITH A ROW OF STAPLES PLACED AT 12"





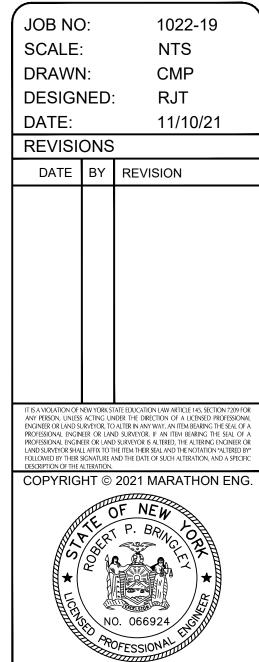


ENGINEERING

ROCHESTER LOCATION

39 CASCADE DRIVE

ROCHESTER, NY 14614



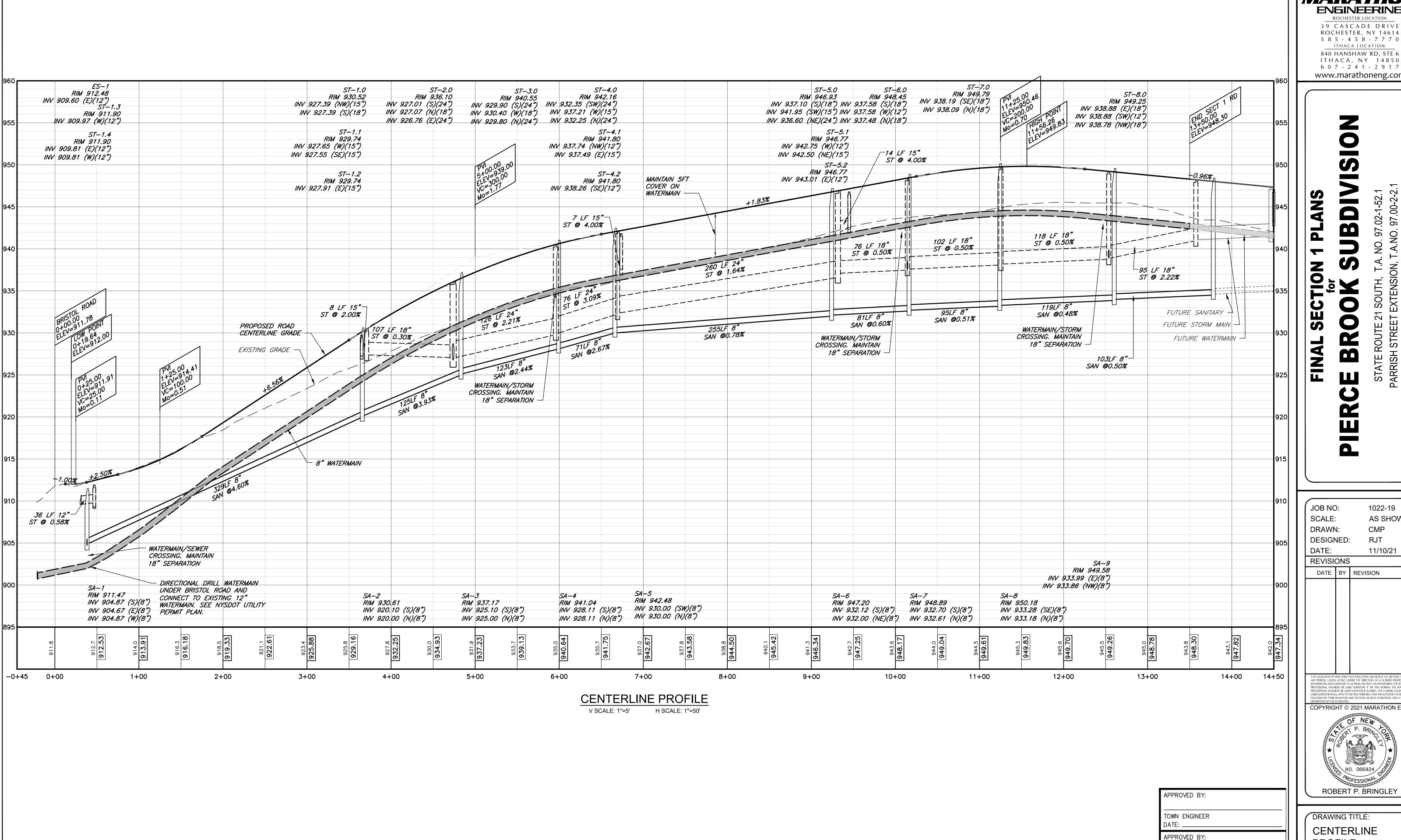
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1022-19

JOB No:

ROBERT P. BRINGLEY



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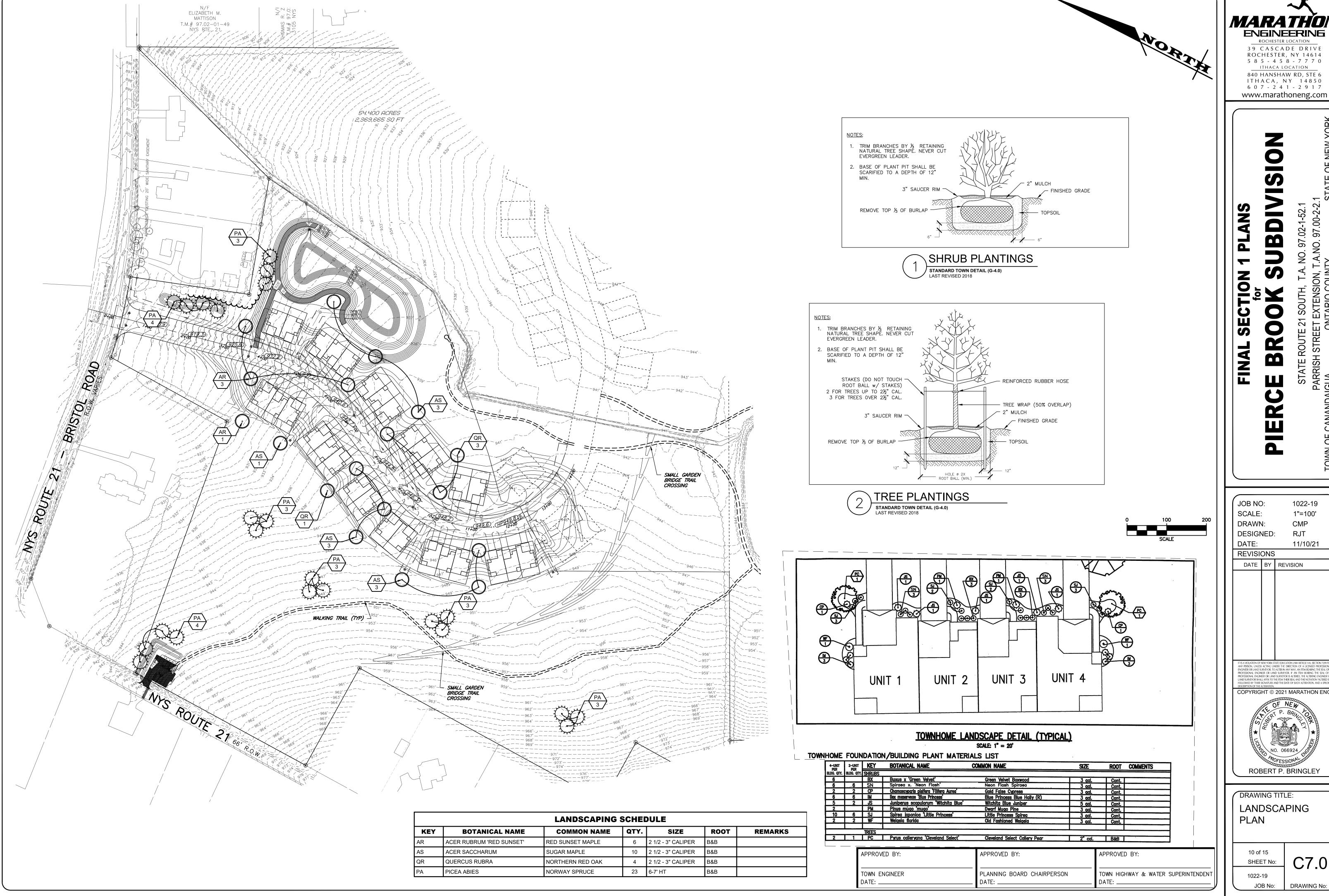
DRAWING TITLE: CENTERLINE PROFILE

PLANNING BOARD CHAIRPERSON

TOWN HIGHWAY & WATER SUPERINTENDENT

APPROVED BY:

9 of 15 SHEET No: 1022-19 JOB No: DRAWING No:



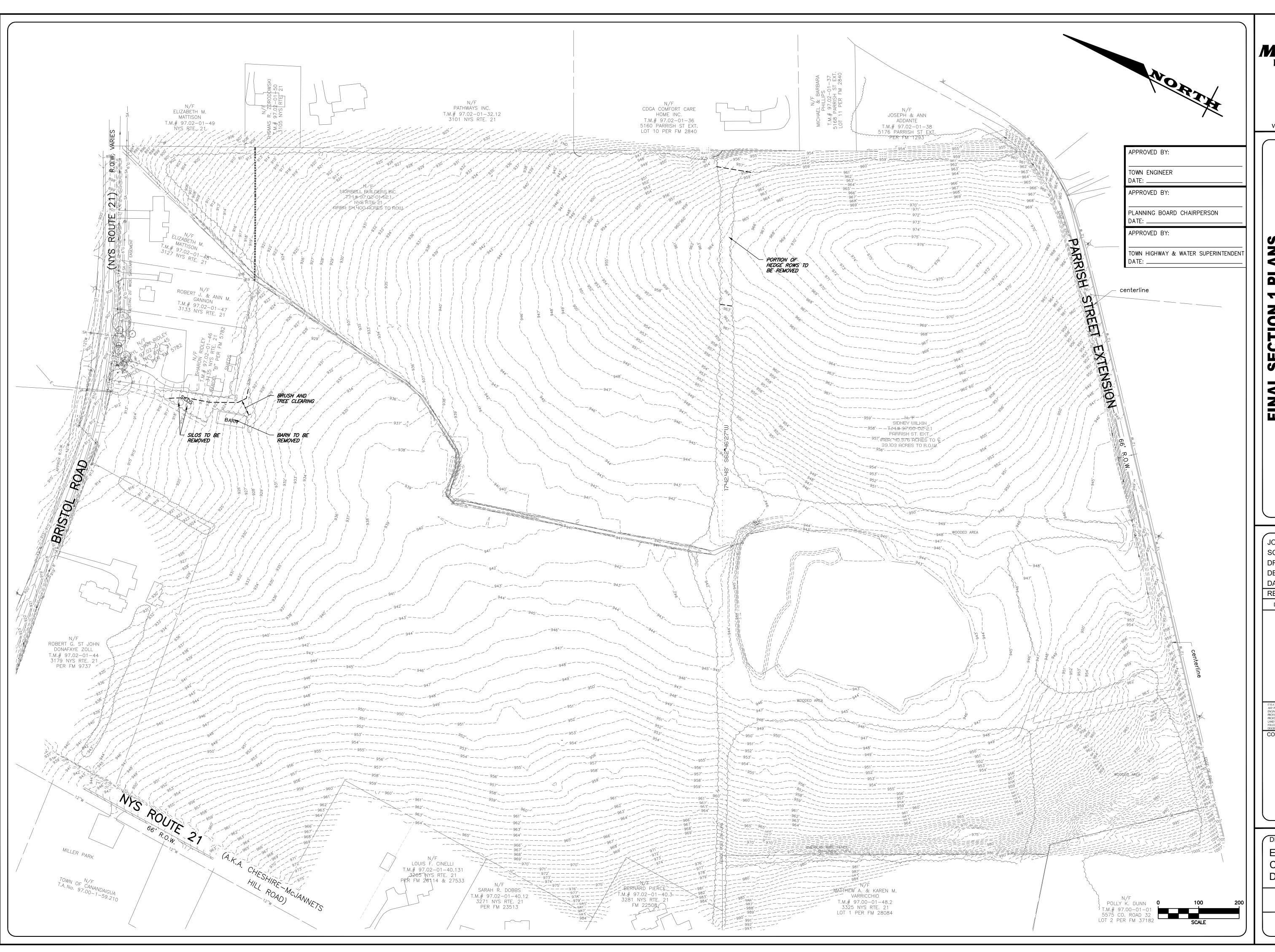
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FRCE BROOK SUBDIVISOUTH, T.A. NO. 97.02-1-52.1
PARRISH STREET EXTENSION, T.A.NO. 97.00-2-2.1

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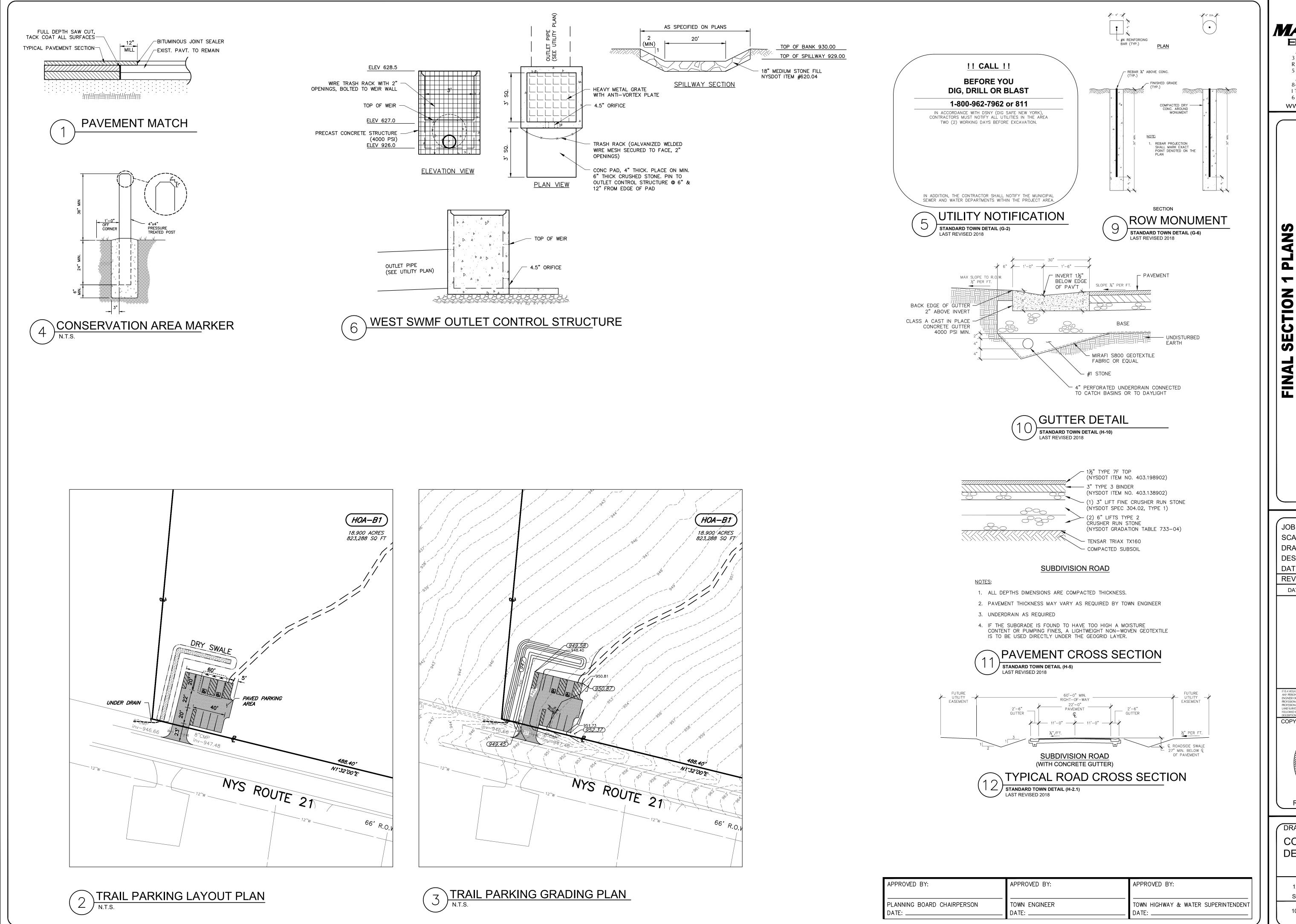
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1022-19

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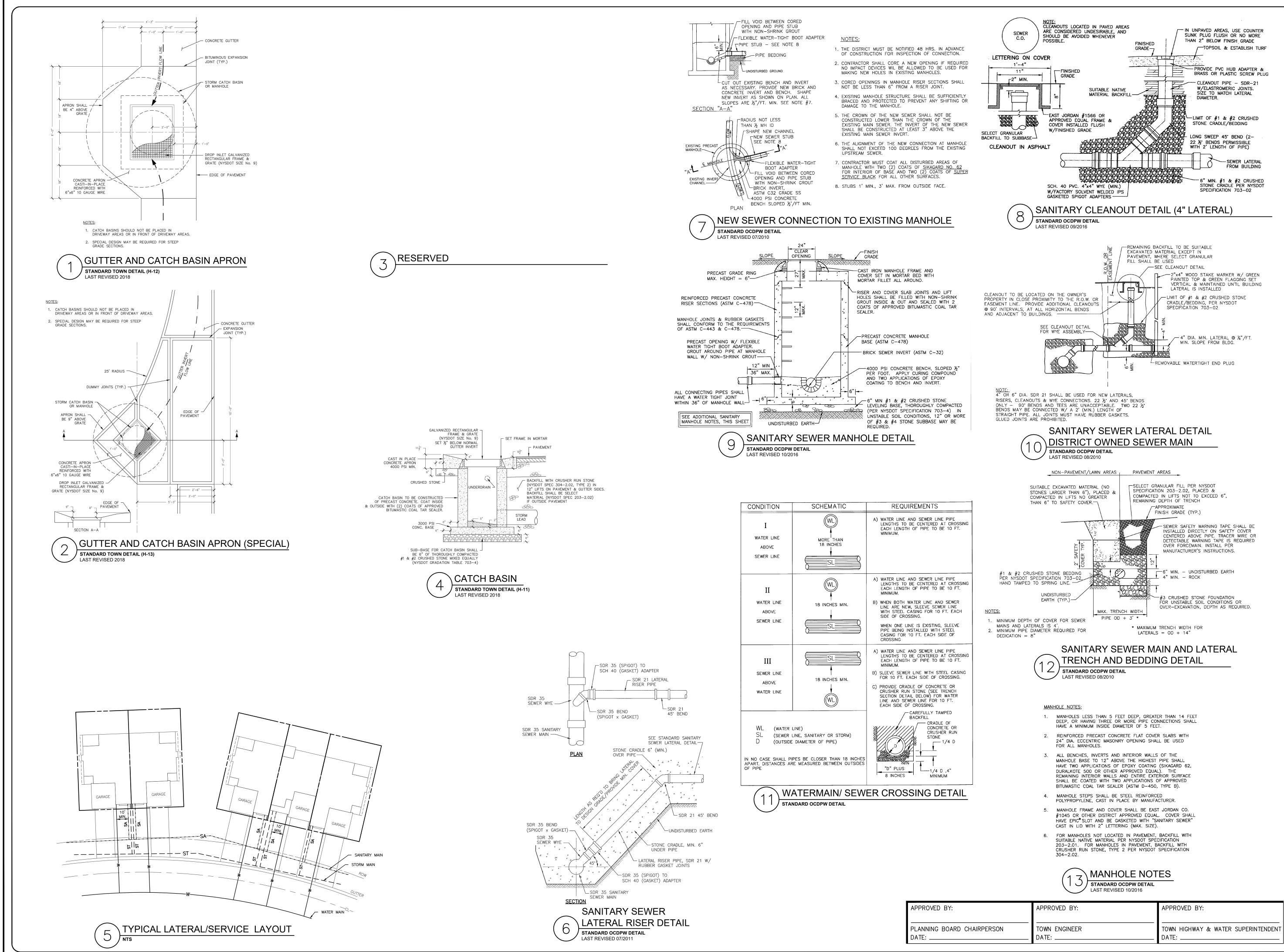
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DRAWING TITLE: CONSTRUCTION **DETAILS**

ROBERT P. BRINGLEY

12 of 15 SHEET No: 1022-19 JOB No: DRAWING No:



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NO. 066924∠

ROBERT P. BRINGLEY

13 of 15 SHEET No: 1022-19 JOB No: DRAWING No:

B. WATERMAINS

1. POLYVINYL CHLORIDE (PVC)

SHALL CONFORM TO AWWA C-900, MINIMUM CLASS 200 (DR14) WITH ELASTOMERIC GASKET JOINTS, INTEGRAL BELL AND RUBBER RINGS LOCKED IN PLACE, MINIMUM DEPTH 5'-0" WITH A MINIMUM OF SIX (6) INCHES OF FULL SAND ENCASEMENT. PVC PIPE INSTALLATION SHALL INCLUDE EITHER:

a) SIX (6) INCH WIDE METALLIC TAPE PLACED OVER THE CENTER OF THE PIPE ON TOP OF THE 24-INCH SAFETY COVER AS MANUFACTURED BY LINE GUARD III, INC;

b) CONTINUOUS #10 GAUGE COPPER WIRE ATTACHED TO THE PIPE AT 5-FOOT INTERVALS WITH PLASTIC TIES WITH A MINIMUM OF 150 LBS TENSILE STRENGTH. WIRE SHALL BE ATTACHED TO ALL CAST FITTINGS, HYDRANTS AND VALVE BOXES TO MAKE A CONTINUOUS TRACEABLE SYSTEM.

. HIGH-DENSITY POLYETHYLENE (HDPE) PIPE

UPON REVIEW AND DISCUSSION WITH THE TOWN, MAY BE CONSIDERED FOR POSSIBLE USE IN SPECIAL CIRCUMSTANCES, I.E. ROAD & STREAM CROSSINGS. SHALL BE SDR-11 DESIGN SHALL BE FORWARDED TO THE TOWN WATER SUPERINTENDENT FOR REVIEW AND APPROVAL.

DUCTILE IRON SHALL MEET AWWA C-153-11 SPECIFICATIONS, MINIMUM CLASS 350, WITH MECHANICAL OR PUSH-ON JOINT, EXCEPT FOR HYDRANT BRANCHES WHICH SHALL BE MECHANICAL JOINTS. FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA C-104-13. BOLTS AND NUTS SHALL BE FLUOROPOLYMER COATED "BLUE BOLTS". (ASS TYLER UNION FITTING) ALL JOINTS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C-111.

PVC SHALL MEET SPECIFICATIONS OF AWWA C-905 MADE FROM PVC COMPOUND 12454-B (ASTM D1784) N. PRESSURE REDUCING VALVES (PRV) AND VAULTS WITH GASKET JOINTS MEETING ASTM D3139.

D. HYDRANTS

SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C-502.

HYDRANTS SHALL BE MUELLER MANUFACTURED FOR 5 FOOT BURY WITH BREAKAWAY FLANGE CONSTRUCTION AND 6-INCH MECHANICAL JOINT INLET. SHOE AND INLET SHALL BE EPOXY COATED.

THEY SHALL OPEN LEFT, WITH A ONE AND ONE-HALF INCH (1-1/2") PENTAGON-OPERATING NUT. THE LOCATION IN THE WATER SYSTEM.

ALL HYDRANTS SHALL BE PAINTED RED WITH BONNETS PAINTED AS PER THE AWWA HYDRANT COLOR

CODE AS LISTED BELOW:

BONNET COLOR FLOW RANGE (GPM) > 1500 GREEN 1000-1499 500-999 **ORANGE**

ALL VALVE BOX COVERS SHALL BE PAINTED BLUE.

HYDRANTS SHALL BE THREE-WAY WITH TWO (2) 2-1/2 INCH HOSE NOZZLES AND ONE (1) 4-1/2 INCH PUMPER CONNECTION (QUICK DISCONNECT), ALL WITH NATIONAL STANDARD THREADS. MAIN VALVE OPENINGS SHALL BE 5-1/4 INCH WITH THE TOTAL UNIT CONSISTING OF THE TEE, GUARD VALVE, HYDRANT AND ADAPTORS. (SEE APPENDIX W).

- 1. THE MAIN VALVE SEAT RING SHALL BE BRONZE AND SCREW INTO THE BRONZE DRAIN RING.
- 2. STAINLESS STEEL FASTENERS SHALL BE USED FOR ALL CONNECTIONS ON HYDRANTS AND VALVES AND FLUOROPOLYMER COATED "BLUE BOLTS" FOR FITTINGS.

E. FLUSHING HYDRANT - BLOWOFF

SHALL BE 2 INCH SELF-DRAINING, NON-FREEZING WITH 5 FOOT BURY, WITH ALL BRONZE PARTS DESIGNED TO CONNECT TO A 2 INCH MAIN LINE OUTLET AS MANUFACTURED BY GIL INDUSTRIES, INC., MODEL SLIM

GATE VALVE AND BOX

1. ALL VALVES 12" OR LESS SHALL BE GATE VALVES.

2. GATE VALVES SHALL CONFORM TO AWWA C-509 OR LATEST REVISION, RESILIENT-SEATED WEDGE TYPE EPOXY COATED GATE VALVES WITH A NON-RISING STEM: "O" RING PACKING, AND OPEN LEFT, THEY SHALL BE OF THE 350 PSI TEST CLASS WITH A MINIMUM WORKING PRESSURE OF 250 PSI. VALVES SHALL BE MANUFACTURED BY, MUELLER CO., MODEL 2360, WITH MJ ENDS, A 2" SQUARE OPERATING NUT. STAINLESS STEEL BOLTS AND NUTS SHALL BE UTILIZED.

- 3. THE VALVE ENDS SHALL DEPEND ON THE TYPE OF PIPE USED AND THE PARTICULAR USE INTENDED.
- 4. VALVE BOXES SHALL BE BIBBY-STE-CROIX MODEL NUMBER VB3000 SERIES. OR APPROVED EQUAL. TWO-PIECE SCREW-TYPE, CAST-IRON CONSTRUCTION, VALVE BOX, WITH A 5-1/4 INCH INSIDE DIAMETER AND COVERS MARKED "WATER".
- 5. IF THE VALVES ARE BURIED DEEP THEY MUST HAVE AN EXTENSION STEM THAT CAN BE REACHED WITH A 6 FOOT VALVE BOX KEY.

G. TAPPING SLEEVE AND VALVE

ALL VALVES SHALL HAVE MECHANICAL JOINT ENDS AND BE FURNISHED WITH SUFFICIENT QUANTITIES OF ACCESSORIES. VALVES SHALL OPEN LEFT AND BE MANUFACTURED BY MUELLER WITH EPOXY COATING. H. ANCHORING FITTINGS

ANCHORING PIPE IN ACCORDANCE WITH ANSI-A21.4, OR LATEST REVISION, SHALL BE EMPLOYED TO ANCHOR ALL HYDRANTS TO GATE VALVES. THE ANCHORING PIPE SHALL BE EPOXY COATED CEMENT LINED AND PROVIDED WITH A ROTATING GLAND. THERE SHOULD BE A MINIMUM 18 INCHES BETWEEN

BUTTERFLY VALVES

ALL VALVES GREATER THAN 16" IN DIAMETER SHALL BE BUTTERFLY TYPE. ALL BUTTERFLY VALVES SHALL CONFORM TO AWWA C-504, OR LATEST REVISION.

HYDRANT AND GATE VALVE. THESE ANCHORING PIPES SHALL BE TYLER 5-198 OR PROPOSED EQUAL.

RESTRAINERS

SHALL BE MANUFACTURED OF HIGH STRENGTH DUCTILE IRON PIPE AND INCORPORATE A FULL 360 DEGREE SUPPORT AROUND THE PIPE. THEY SHALL BE AS MANUFACTURED BY MEGALUG OR UNI-FLANGE SERIES 1500, 1300, 1350, OR 1390 DEPENDING ON THE SPECIFIC USE.

K. WATER SERVICE MATERIAL

- 1. CORPORATIONS STOP SHALL BE MUELLER H-15008 COMPRESSION TYPE.
- 2. CURB STOPS SHALL BE MUELLER H-15209 MARK II COMPRESSION TYPE.
- 3. CURB BOXES SHALL BE MUELLER H-10334, 5 FEET LONG WITH STAINLESS STEEL RODS AND STAINLESS STEEL KEYS. CURB BOXES SHALL NOT BE LOCATED WITHIN DRIVEWAYS.

4. COPPER SERVICES SHALL BE TYPE "K" ASTM B88

5. PLASTIC SERVICES SHALL BE COPPER TUBE SIZE (CTS) AT 200 PSI, WITH A MINIMUM 1 INCH PIPE DIAMETER (ONLY USED FROM CURB BOX TO UNIT AND A CONTINUOUS? #10 GAUGE COPPER TRACER WIRE SHALL BE INCLUDED FROM THE CURB BOX TO THE STRUCTURE). SAND BEDDING SHALL BE PROVIDED AS APPROPRIATE.

> POLYETHYLENE ASTM D-2737, PE 3408 PER AWWA C-901 (MINIMUM 5'-0" DEPTH AND SAND **ENCASEMENT REQUIRED)**

- 6. ALL SERVICES TAPPED INTO MAINS SHALL UTILIZE DOUBLE STRAP SS SADDLE (MUELLER) WITH A MUELLER CORPORATION
- 7. ANY SERVICES LARGER THAN 1" SHALL MEET THE MINIMUM SPECIFICATIONS OF THE WATER SUPERINTENDENT.

8. REFER TO APPENDIX W.

L. METER PITS FOR INDIVIDUAL SERVICES

- 1. INDIVIDUAL METER PITS, WHERE REQUIRED, SHALL BE MUELLER, DOUBLE LID STYLE WITH WABASH COVER W2. COVER SHALL BE EQUIPPED TO RECEIVE ATTACHMENTS FOR RADIO-READ WATER METERS.
- 2. REFER TO APPENDIX W.

M.THRUST BLOCKS

SHALL BE CAST IN PLACE 3000-PSI CONCRETE TO DIMENSIONS AS SHOWN IN APPENDIX W.

1. PRV VAULTS WHERE REQUIRED BY THE TOWN OF CANANDAIGUA, SHALL BE A MINIMUM OF 6'X16'X8' HIGH, LAKELAND PRECAST CONCRETE VAULT PROVIDED WITH 48"X48" ALUMINUM HATCH WITH ALUMINUM LADDER, SUMP RECESS, OPENINGS AS REQUIRED, SEALS, BOOTS, STAINLESS STEEL TRIM, DUAL PILOTS AND DUAL STRAINERS. SENTENCE HERE ABOUT COATING OR WATERPROOFING THE CONCRETE VAULT? THE STEEL VENT PIPE IS TO BE PAINTED BLUE.

2. THE PRV VAULT SHALL ALSO BE EQUIPPED WITH A ROSS 40WR-BP PRESSURE REDUCING VALVE AND MAY REQUIRE A BACK PRESSURE SUSTAINING FEATURE AND REVERSE FLOW FEATURE DEPENDING ON

3. REFER TO APPENDIX W

O. EQUIVALENTS

1. ANY MATERIAL AND MANUFACTURER SUBSTITUTES ARE TO BE PROVIDED IN ADVANCE TO THE TOWN WATER SUPERINTENDENT FOR REVIEW AND APPROVAL.

2. FOR ANY PROJECT IT WILL BE ASSUMED THAT THE DEVELOPER WILL FURNISH THE EXACT MATERIALS SPECIFIED ON THE PLANS AND SPECIFICATIONS UNLESS THE DEVELOPER FILES WITH THE TOWN OF CANANDAIGUA WATER SUPERINTENDENT PRIOR TO ANY USE IN THE DEVELOPMENT, THE NAMES AND COMPLETE DESCRIPTION OF EACH ARTICLE WHICH HE PROPOSES TO SUBSTITUTE FOR APPROVAL BY THE TOWN.

3. ANY COSTS INCURRED BY THE TOWN OR ITS REPRESENTATIVES ASSOCIATED WITH THE VERIFICATION OF SUBSTITUTE EQUIPMENT AND MATERIALS WILL BE THE RESPONSIBILITY OF THE DEVELOPER.

NOTES:

FINISHED GRADE -

COPPER SERVICES SHALL BE ENCASED ALL AROUND WITH SELECT EARTH. SERVICES SHALL BE TYPE K COPPER OR 200 P.S.I. CTS PLASTIC FROM THE MAIN TO THE CURB STOP.

2. PLASTIC SERVICES (CTS 200) ALLOWED FROM THE CURB STOP TO THE STRUCTURE. TRACER WIRE SHOULD BE PROVIDED AS SHOWN.

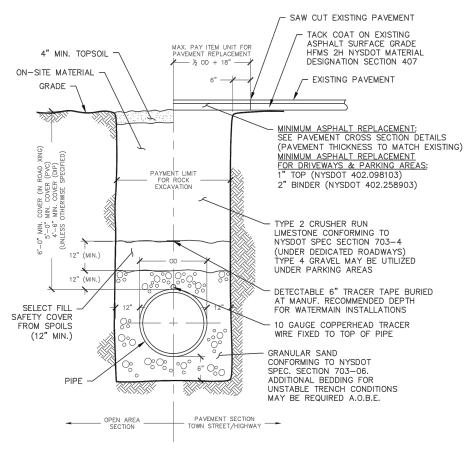
 CORPORATION (MUELLER)

WATERMAIN

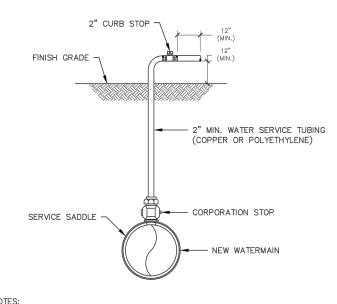
- DOUBLE STRAP SS SADDLE

3. ALL RESIDENTIAL SERVICE SHALL BE 1" MIN. DIAMETER.

4. CURB BOXES SHALL NOT BE LOCATED IN DRIVEWAY AREAS.



DETENTION AREA OUTFALL STRUCTURE STANDARD TOWN DETAIL (W-8) LAST REVISED 2018



1. UPON NOTIFICATION FROM THE HEALTH DEPARTMENT THAT A SATISFACTORY NATER SAMPLE HAS BEEN OBTAINED, SHUT DOWN CORPORATION STOP AND

- 2. IMMEDIATELY PRIOR TO PLACING THE WATER MAIN IN SERVICE THE CONTRACTOR SHALL REMOVE ALL CORPORATIONS ASSOCIATED WITH TEMPORARY FACILITIES (
 I.E. SAMPLING TAPS, ETC.) AND REPLACE WITH THREADED BRASS PLUGS.
- 3. FOR DISINFECTION\SAMPLING TAPS THAT ARE NOT NEEDED TO BLOW-OFF, 1" $^{\circ}$
- 4. 1000 LF MAXIMUM DISTANCE BETWEEN SAMPLE TAPS UNLESS OTHERWISE SPECIFIED BY ENGINEER.

DISINFECTION\SAMPLING TAPS ARE ACCEPTABLE

(PAINTED PER AWWA

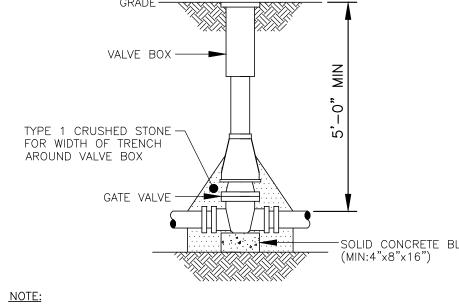
6" GATE VALVE (MUELLER)

STANDARD TOWN DETAIL (W-6)

LAST REVISED 2018

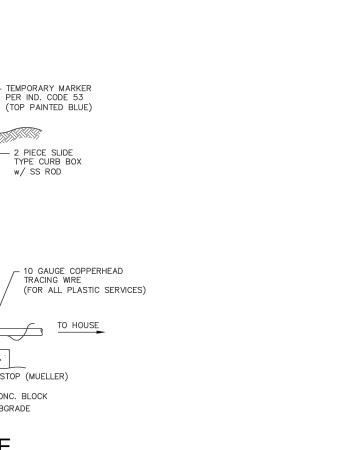
TEMPORARY DISINFECTION / SAMPLING / BLOW-OFF

STANDARD TOWN DETAIL (W-7)



1. VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL

3. ALL BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL.



R.O.W. OR ---

TYPICAL WATER SERVICE

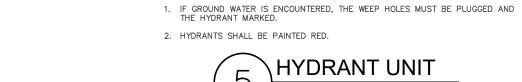
STANDARD TOWN DETAIL (W-3)

LAST REVISED 2018

w/ SS ROD

CURB STOP (MUELLER)

L 2"x4"x16" CONC. BLOCK



8"x8"x16" CONC. BLOCK

(MIN. 18" LAY LENGTH BETWEEN

HYDRANT AND GATE VALVE)

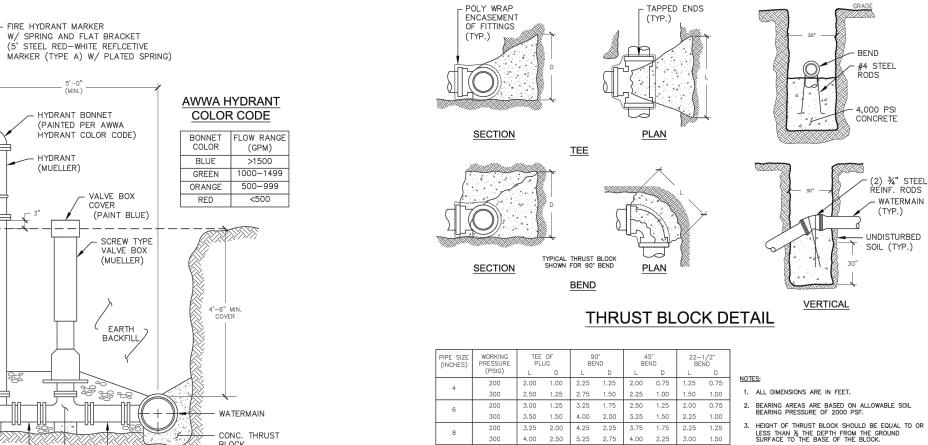
6" ANCHOR FITTING -

BREAK FLANGE -

STAINLESS STEEL FASTENERS

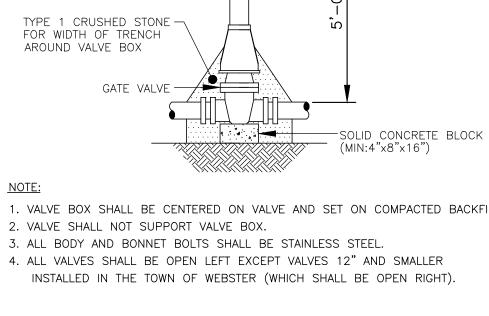
UNDISTURBED SOIL -

10 CU. FT. No. 2 – CRUSHED GRAVEL STONE FOR WEEP DRAINAGE (ONLY IF ABOVE



PIPE SIZE WORKING (INCHES) PRESSURI				90° BEND		45° BEND		22-1/2* BEND			
((PSIG)	L	D	L	D	L	D	L	D		
4	200	2.00	1.00	2.25	1.25	2.00	0.75	1.25	0.75	NOT	ES:
4	300	2.50	1.25	2.75	1.50	2.25	1.00	1.50	1.00	1.	ALL DIMENSIONS ARE IN FEET.
6	200	3.00	1.25	3.25	1.75	2.50	1.25	2.00	0.75	2.	BEARING AREAS ARE BASED ON ALLOWABLE SO
	300	3.50	1.50	4.00	2.00	3.25	1.50	2.25	1.00		BEARING PRESSURE OF 2000 PSF.
8	200	3.25	2.00	4.25	2.25	3.75	1.75	2.25	1.25	3.	HEIGHT OF THRUST BLOCK SHOULD BE EQUAL T
٥	300	4.00	2.50	5.25	2.75	4.00	2.25	3.00	1.50		LESS THAN ½ THE DEPTH FROM THE GROUND SURFACE TO THE BASE OF THE BLOCK.
10	200	4.25	2.25	5.25	2.50	4.00	2.00	3.00	1.25	4.	ALL THRUST BLOCKS SHALL CURE A MINIMUM O
10	300 5.50 2.50 6.50 3.00 5.00 2.50 4.00 1.50		SEVEN (7) DAYS BEFORE ANY PRESSURE TESTS CONDUCTED.								
12	200	5.25	2.50	6.00	3.25	4.50	2.25	3.25	1.75	1	CONDUCTED.
12	300	6.25	3.25	7.50	4.00	5.50	2.75	4.25	2.00	5.	CONCRETE SHALL BE MINIMUM 3000 PSI.
14	200	5.50	3.25	7.25	3.50	5.25	2.50	3.25	2.00	6.	RESTRAINING RODS MAY BE USED IN LEIU OF THE
300	300	10.25	5.00	9.00	4.25	6.50	3.00	5.00	2.25		BLOCKS. METHOD TO USED SHALL BE APPROVED ENGINEER PRIOR TO PLACEMENT.
16	200	6.5	3.50	8.25	4.00	5.50	3.25	4.50	2.25	1	
10	300	8.25	4.25	10.00	5.00	7.25	3.75	5.25	3.00		

WATERMAIN THRUST BLOCK SCHEDULE STANDARD TOWN DETAIL (W-5) LAST REVISED 2018



APPROVED BY: APPROVED BY: APPROVED BY: TOWN HIGHWAY & WATER SUPERINTENDENT PLANNING BOARD CHAIRPERSON TOWN ENGINEER DATE: __ DATE: __



39 CASCADE DRIVE ROCHESTER, NY 14614 5 8 5 - 4 5 8 - 7 7 7 0 ITHACA LOCATION 840 HANSHAW RD, STE 6 ITHACA, NY 14850 6 0 7 - 2 4 1 - 2 9 1 7 www.marathoneng.com

S. O ш

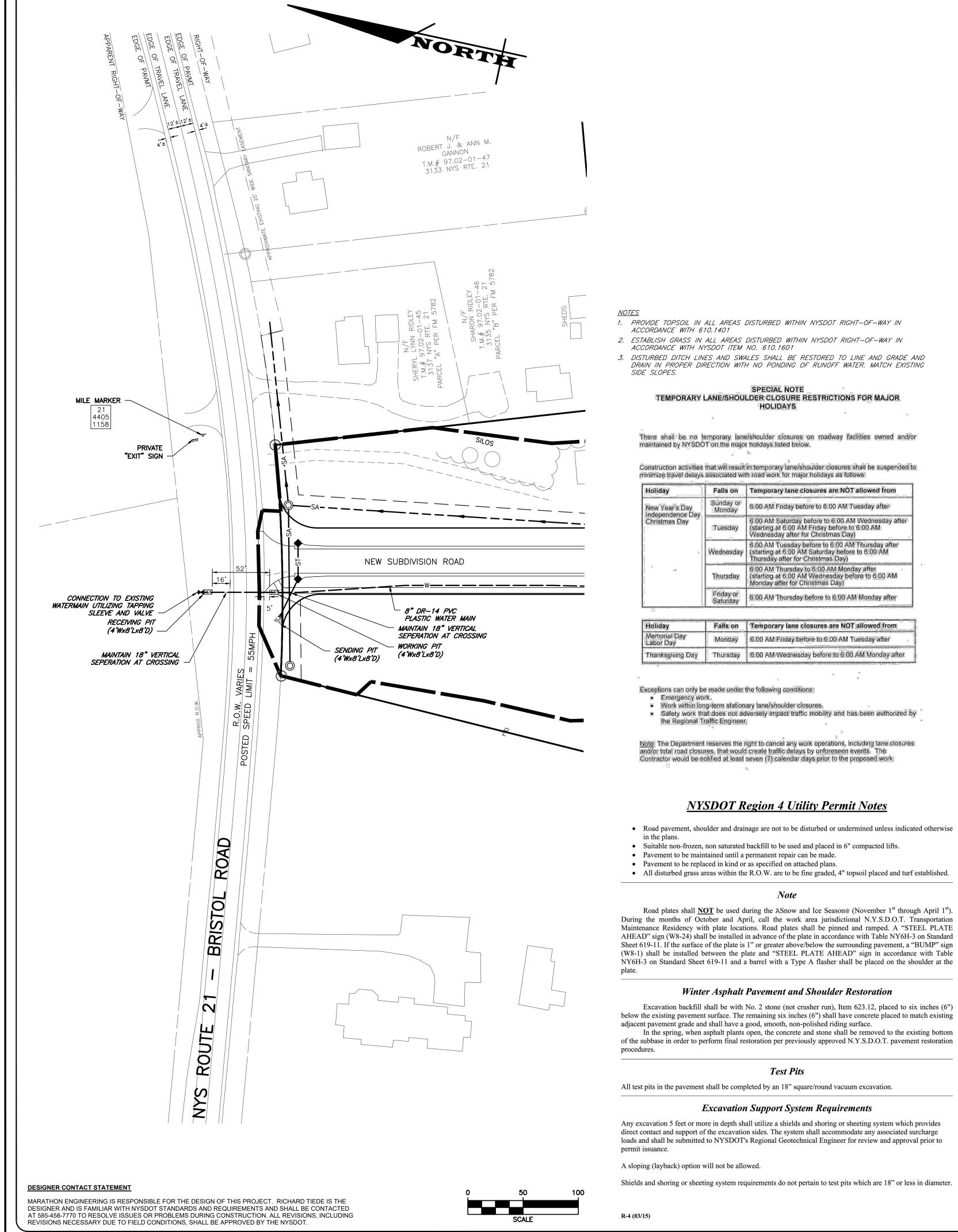
JOB NO: 1022-19 SCALE: **AS SHOWN** DRAWN: **DESIGNED:** RJT DATE: 11/10/21 REVISIONS DATE BY REVISION NY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFES OFESSIONAL ENGINEER OR LAND SURVEYOR, IF AN ITEM BEARING THE SEAL OF OLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPE COPYRIGHT © 2021 MARATHON ENG.

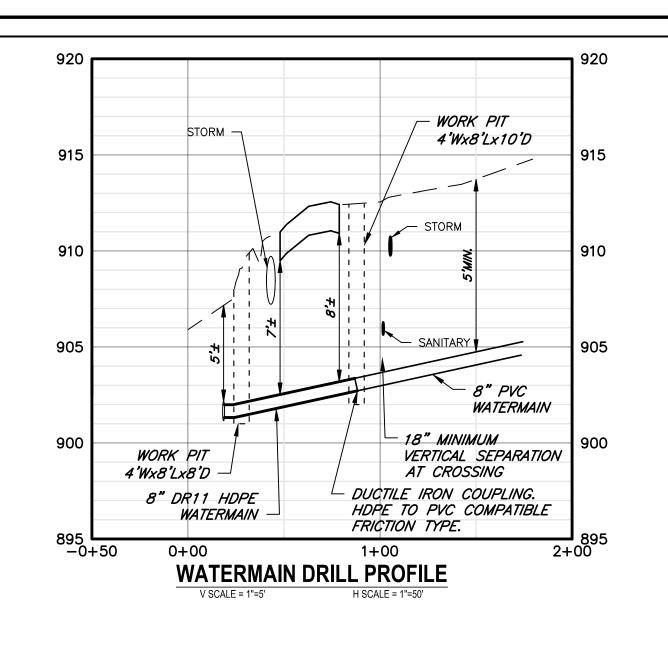
ROBERT P. BRINGLEY DRAWING TITLE: CONSTRUCTION **DETAILS** 21 of 22 SHEET No:

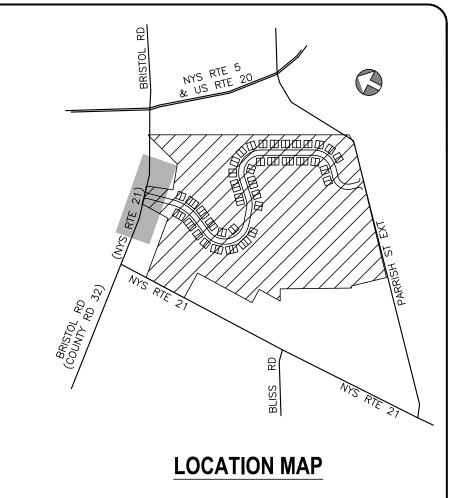
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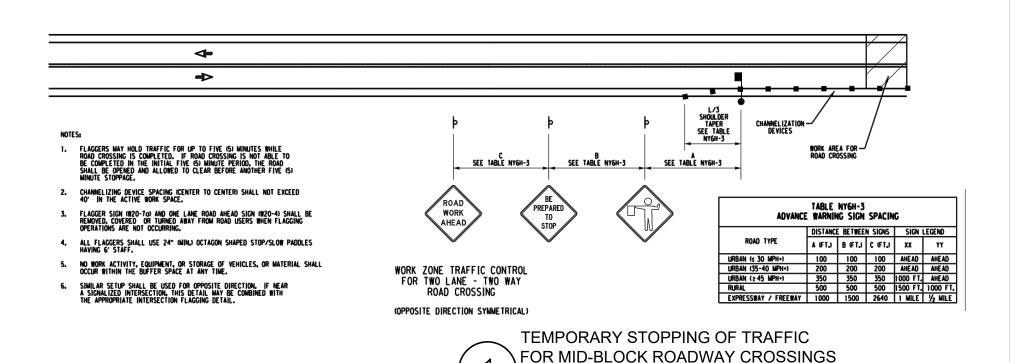
1022-19

JOB No:









Standard General Plan Notes

- 1. ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- 2. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
- ${\tt 3.} \quad {\tt MATERIALS, EQUIPMENT\ AND\ VEHICLES\ ARE\ NOT\ TO\ BE\ STORED\ OR\ PARKED\ WITHIN\ THE\ NEW\ YORK\ STATE\ RIGHT-OF-WAY.}$ MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE CURRENT NATIONAL MUTCD WITH NYS SUPPLEMENT, ECTION 619 OF THE CURRENT NYSDOT STANDARD SPECIFICATIONS, THESE PLANS AND AS ORDERED BY THE ASSISTANT RESIDENT ENGINEER, ON A NYSDOT CONSTRUCTION PROJECT, MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THESE PLANS AND BE IN ACCORDANCE WITH THE NYSDOT CONTRACT DOCUMENTS AS DEEMED NECESSARY BY THE NYS
- $5. \quad \text{NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S ASSISTANT RESIDENT ENGINEER AT THE APPROPRIATE} \\$ NUMBER, AS NOTED BELOW, FIVE (5) WORK DAYS PRIOR TO WORKING WITHIN THE STATE RIGHT-OF-WAY. GENESEE CO. - DAN STAHLEY (585) 343-0502 LIVINGSTON CO. - ADAM KISIAH (585) 346-3036

MONROE CO. - WEST OF GENESEE RIVER MONROE CO. - EAST OF GENESEE RIVER NON-UTILITY DARRELL FAZIO - (585) 352-3471 UTILITY PERMIT – KARLEE DANEK ORLEANS CO. - DAN STAHLEY (585) 343-0502 ONTARIO CO. - GREG TROST (585) 396-4955 WAYNE CO. - MARK ELLSWORTH (315) 332-4000

NOTIFICATION FORM. RTOC'S CONTRUCTION NOTIFICATION FORM CAN BE OBTAINED FROM THE 51 INY NOTIFICATION LINK AT THE WORK ZONE TRAFFIC CONTROL ICON ON THE REGION 4 PERMITS WEBSITE: <u>WWW.DOT.NY.GOV/R4WORKPERMITS</u>. PROPOSED CLOSURES WILL BE REVIEWED FOR CONCURRENT AND OVERLAPPING CLOSURE OR INCIDENT CONFLICTS AND WILL BE ENTERED INTO 511NY, ORG. CLOSURES INCLUDED IN THE NOTIFICATION SHALL CONFORM TO TIME, DATE, AND LOCATION RESTRICTIONS IN THE PERMIT. RTOC MAY DISALLOW OR REDUCE CLOSURES DUE TO OTHER CLOSURES OR WORK, EVENTS, OR

IN ADDITION, THE PERMITTEE SHALL NOTIFY NYSDOT REGIONAL TRAFFIC OPERATIONS CENTER (RTOC) OF ALL LANE AND

SHOULDER CLOSURES AT LEAST THREE (3) DAYS IN ADVANCE OF THE PROPOSED WORK UTILIZING RTOC'S CONSTRUCTION

INCIDENTS FOUND IN CONFLICT WITH THE PROPOSED CLOSURE(S). ALL LANE AND SHOULDER CLOSURES SHALL BE REMOVED DURING NON-WORKING HOURS, EXCEPT WHERE AUTHORIZED BY THE NYSDOT REGIONAL TRAFFIC ENGINEER OR DESIGNEE.

SIGNALIZED INTERSECTION, NOTIFY DIG SAFELY NEW YORK 2 WORK DAYS PRIOR TO DIGGING, DRILLING OR BLASTING AT 811 ALL MATERIALS USED WITHIN THE STATE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT

8. QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 401 OF THE STANDARD SPECIFICATIONS. ALL ASPHALT PRODUCED AS PART OF SECTION 401 WILL BE PAID AT A FINAL QUANTITY ADJUSTMENT FACTOR OF 1.0. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.

PROTECTION OF TRAFFIC MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING. 10. HAZARDOUS WASTE NOTIFICATION - THE PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY IN ITS "AS IS" CONDITION. THE DEPARTMENT OF TRANSPORTATION MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND

13. NYSDOT OPERATIONS TAKE PRECEDENCE OVER HIGHWAY WORK PERMIT OPERATIONS. CONTRACTOR SHALL NOT HAVE WORK

4" TOPSOIL, COMPACTED SEEDED AND MULCHED FINISHED GRADE~ V V V V V V V BACKFILL WITH SUITABLE MATERIAL ─ITEM 203.25 - SAND BACKFILL

STANDARD NYSDOT DETAIL WZD-01

1) BACKFILL OF SUITABLE MATERIAL SHALL BE COMPACTED IN MAXIMUM 6" LIFTS. 2) ALL DISTURBED AREAS SHALL BE MULCHED OR HAVE TURF ESTABLISHED WITHIN 10 DAYS.

3) ALL WORK SHALL CONFORM TO NYSDOT SPECIFICATIONS.

EXCAVATION/ RESTORATION DETAIL WITHING NYS RIGHT-OF-WAY OUTSIDE OF PAVEMENT AND SHOULDER STANDARD NYSDOT DETAIL LAST REVISED: 08/16/16

MARATHON **ENGINEERING** ROCHESTER LOCATION

39 CASCADE DRIVE ROCHESTER, NY 14614 5 8 5 - 4 5 8 - 7 7 7 0 ITHACA LOCATION 840 HANSHAW RD, STE 6 ITHACA, NY 14850 6 0 7 - 2 4 1 - 2 9 1 7

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DRAWING TITLE: NYSDOT UTILITY PERMIT PLAN

ROBERT P. BRINGLEY

SHEET No: 1022-19 JOB No: DRAWING No:

WYOMING CO. KATHRYN MURRAY (585) 786-3310

6. NOTIFY THE NYSDOT TRAFFIC SIGNAL MAINTENANCE ENGINEER AT (585) 753-7793 5 DAYS PRIOR TO WORKING WITHIN 350' OF A

OF TRANSPORTATION SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S

NO NIGHT WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO START OF PROJECT. ADDITIONAL MAINTENANCE AND

TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREUNDER. SHOULD PERMITTEE FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE DEPARTMENT OF TRANSPORTATION SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE PERMITTEE IS REQUIRED TO REMOVE, MODIFY OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURES, FEATURES OR IMPEDIMENTS IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS APPROVED BY THE DEPARTMENT OF TRANSPORTATION.#

11. ADA COMPLIANCE – ALL WORK ON PEDESTRIAN FACILITIES SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES 12. ANY DAMAGE TO ROADWAY FEATURES CASED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR'S OPERATIONS WITHIN NYS

 $OPERATIONS \ IN \ PAVEMENT \ DURING \ INCLEMENT \ WEATHER \ CONDITIONS \ OR \ DURING \ SNOW \ AND \ ICE \ REMOVAL \ OPERATIONS \ ON$ STATE HIGHWAYS.

SPECIAL NOTE TEMPORARY LANE/SHOULDER CLOSURE RESTRICTIONS FOR MAJOR

HOLIDAYS

New Year's Day

Christmas Day

Independence Day

Thanksgiving Day

Emergency work.

the Regional Traffic Engineer

Monday

Work within long-term stationary lane/shoulder closures.

Falls on Temporary lane closures are NOT allowed from

hursday after for Christmas Day)

fonday after for Christmas Day)

Falls on Temporary lane closures are NOT allowed from

Thursday 6:00 AM Wednesday before to 6:00 AM Monday after

Monday 6.00 AM Friday before to 6.00 AM Tuesday after

Safety work that does not adversely impact traffic mobility and has been authorized by

NYSDOT Region 4 Utility Permit Notes

Winter Asphalt Pavement and Shoulder Restoration

Test Pits

Excavation Support System Requirements

6:00 AM Friday before to 6:00 AM Tuesday after

(starting at 6.00 AM Friday before to 6:00 AM Vednesday after for Christmas Day)

6 00 AM Thursday to 6:00 AM Monday after (starting at 6:00 AM Wednesday before to 6:00 AM

6:00 AM Saturday before to 6:00 AM Wednesday afte

6.00 AM Tuesday before to 6.00 AM Thursday after (starting at 6.00 AM Saturday before to 6.00 AM

6:00 AM Thursday before to 6:00 AM Monday after