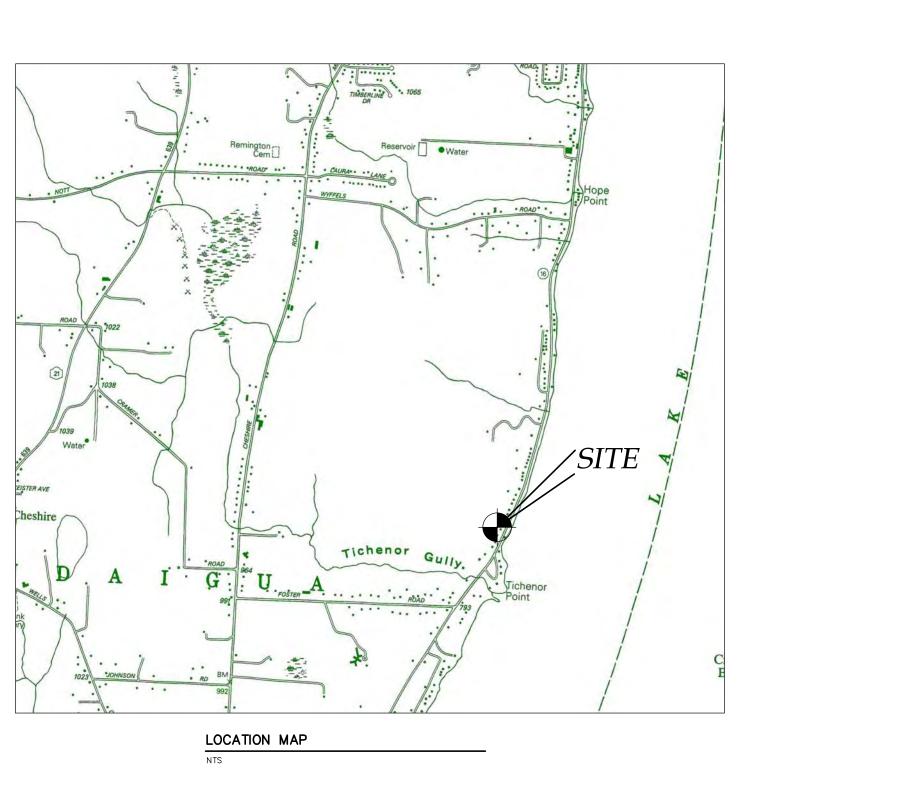
SITE PLANS FOR:

JOHN & SUSAN LEWIS NEW RESIDENCE 4210 COUNTY ROAD 16 TOWN OF CANANDAIGUA COUNTY OF ONTARIO STATE OF NEW YORK

FEBRUARY 10, 2021











COVER

EX100 - EXISTING CONDITIONS PLAN

C100 - SITE PLAN

L100 - LANDSCAPING PLAN

C500 - GENERAL DETAILS

C501 - SANITARY DETAILS

C502 - DETAILS

C503 - DETAILS

C504 - DETAILS



MarksEngineering

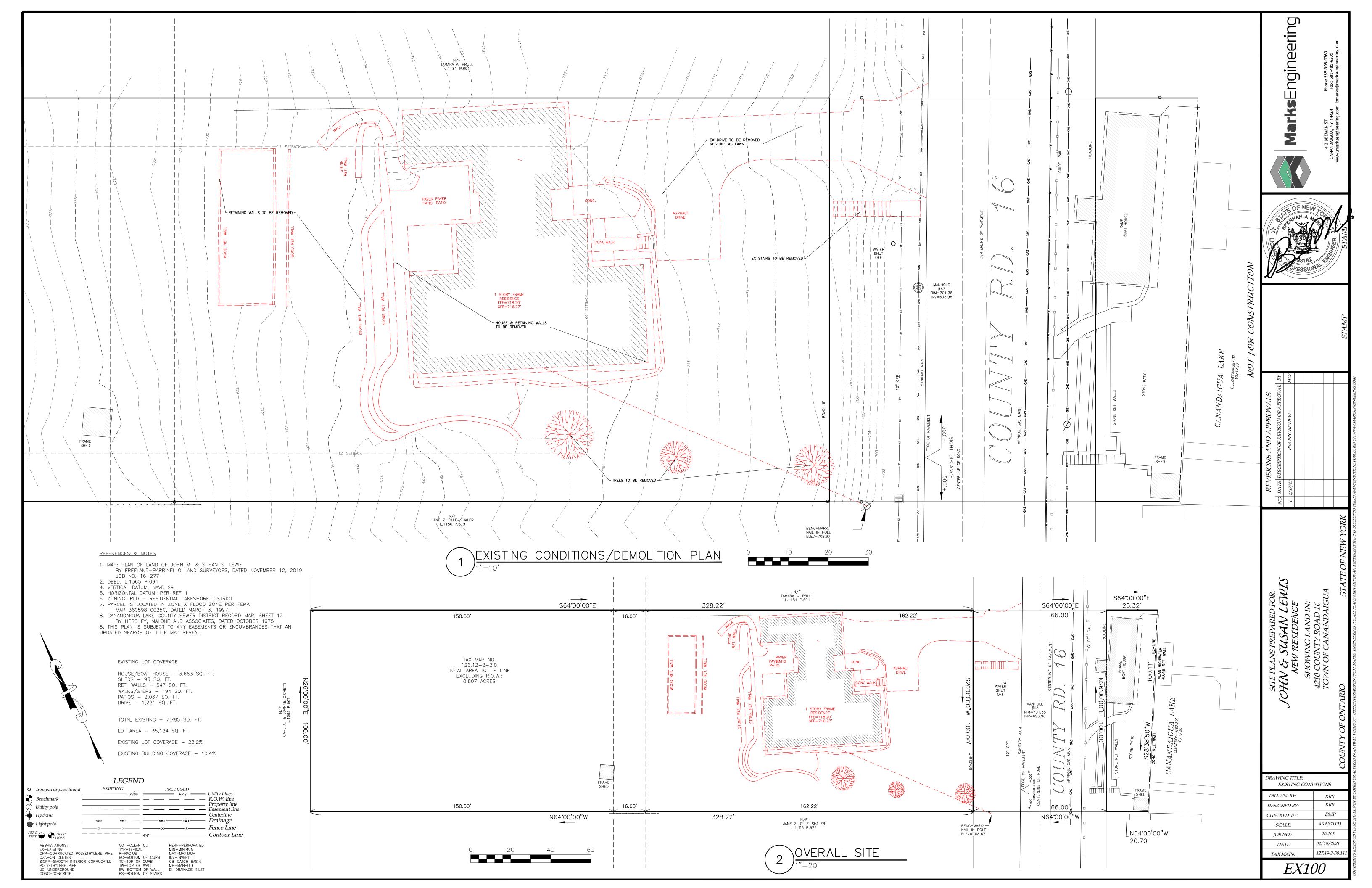
MARKS ENGINEERING, P.C.
42 BEEMAN STREET
CANANDAIGUA, NY 14424
(585)905-0360
WWW.MARKSENGINEERING.COM

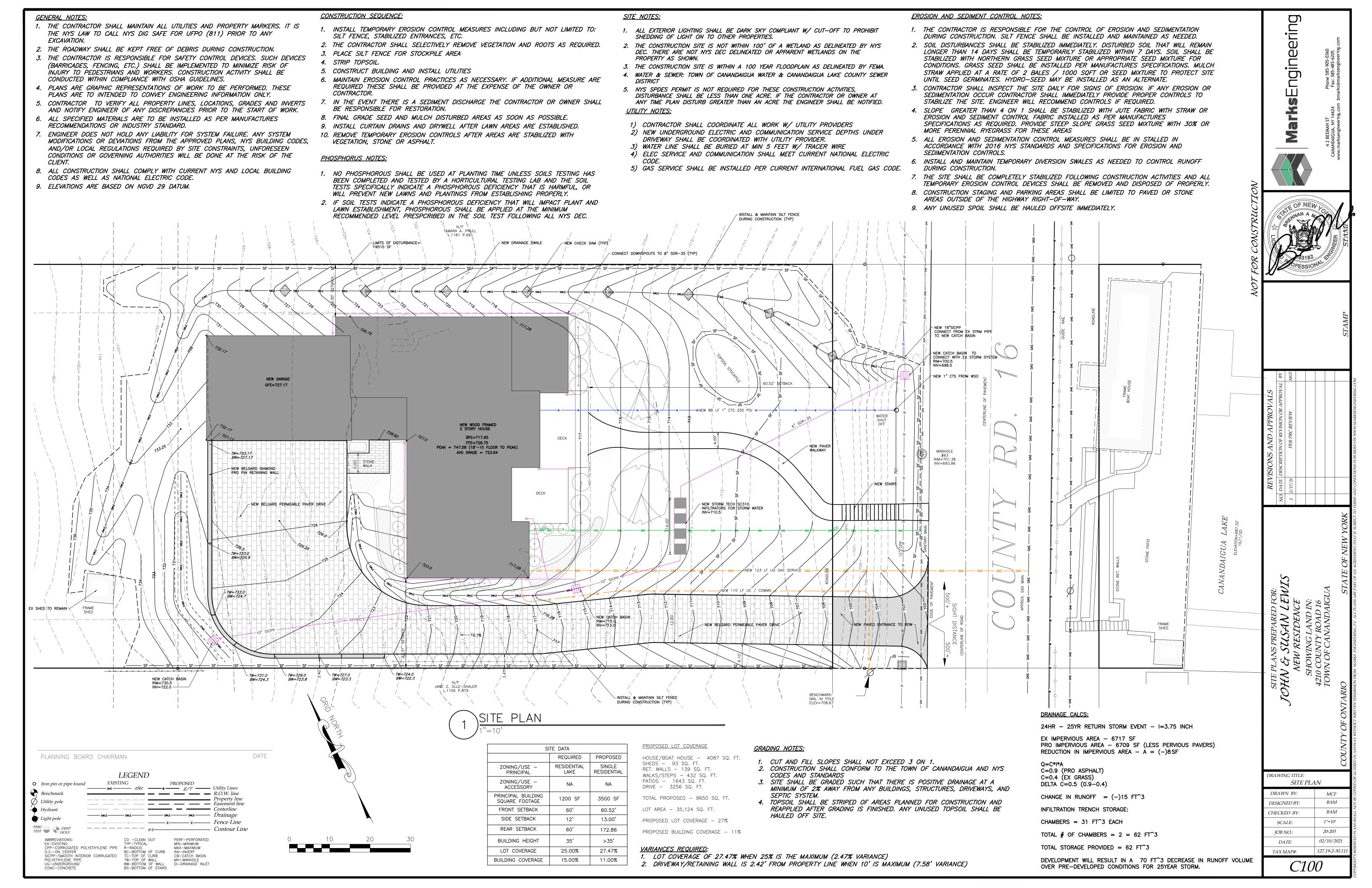
PROPERTY OWNER:
JOHN M. & SUSAN S. LEWIS
4210 COUNTY ROAD 16
CANANDAIGUA,
NEW YORK 14424

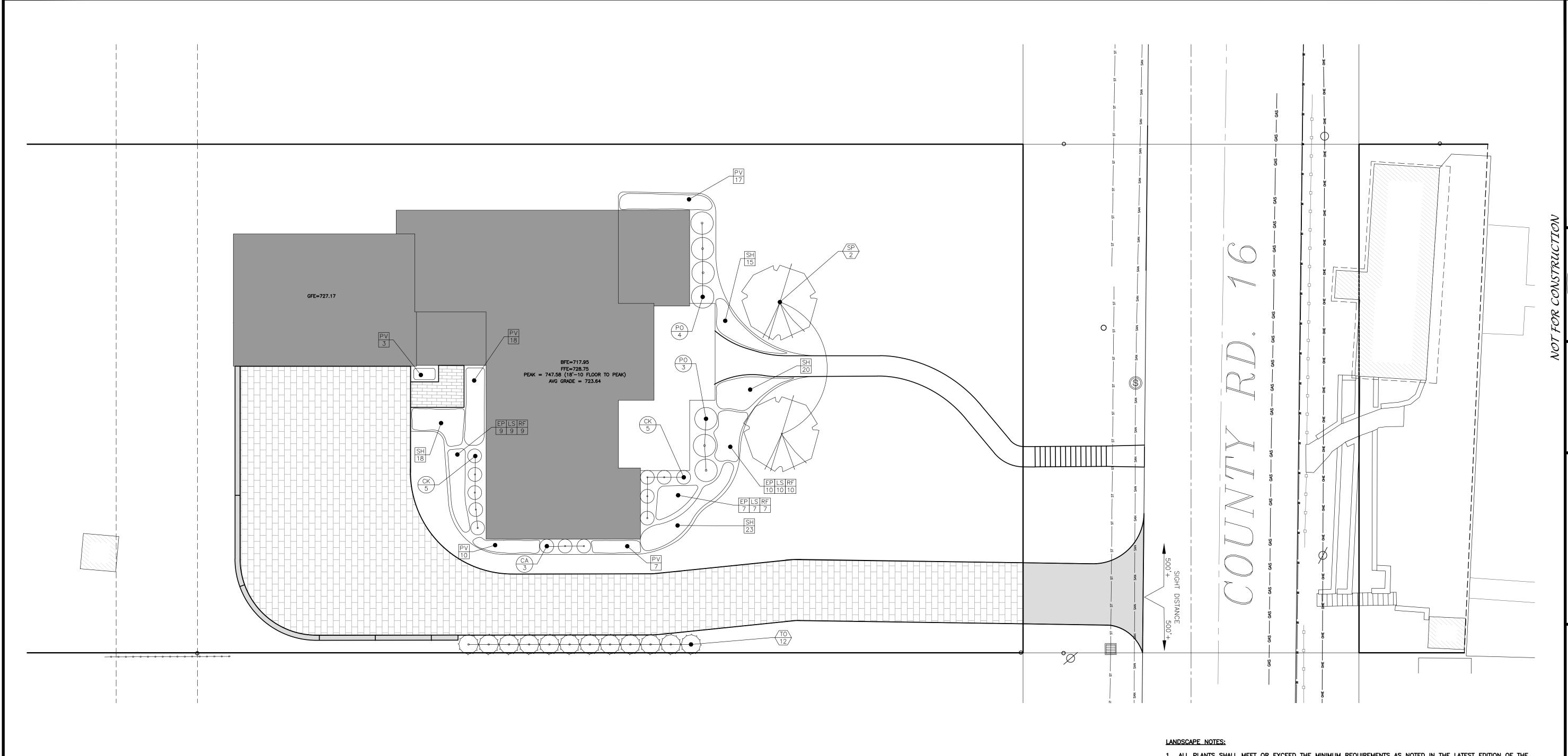
PREPARED FOR: JOHN & SUSAN LEWIS

REVISIONS: 02/17/21 - PER PRC REVIEW

JOHN & SUSAN LEWIS
4210 COUNTY ROAD 16
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
NEW YORK
JOB #20-203
02/10/2021







SEE MARKS ENGINEERING DWG. C-500 FOR SHRUB AND TREE PLANTING DETAILS

LEGEND

Iron pin or pipe found

PLANT LEGEND

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
TREE	S					
2	SP	Stewartia pseudocamilla	Japanese Stewartia	2.5" CAL	B&B	
12	то	Thuja occidentalis 'Emerald Green'	Emerald Green Arborvitae	6' TALL	B&B	
SHR	UB					
3	CA	Cletha alnifolia 'Ruby Spice'	Ruby Spice Summersweet	18"	B&B	
10	CK	Cornus sericea 'Kelseyi'	Kelsey Redtwig Dogwood	18"	B&B	
7	PO	Physocarpus opulifolia 'Center Glow'	Center Glow Ninebark	24"	B&B	
GRAS	SSES/ I	PERENNIALS				
26	EP	Echinacea purpurea	Purple Cone Flower	1 qt.	cont.	PLANT SPACING AT 18"
26	LS	Liatris spicata	Blazing Star	1 qt.	cont.	PLANT SPACING AT 18"
55	PV	Panimucm virgatum 'Heavy Metal'	Heavy Metal Switchgrass	1 gal.	cont.	PLANT SPACING AT 24"
26	RF	Rudbeckia fulgida 'Goldstrum'	Goldstrum Black Eyed Susan	1 qt.	cont.	PLANT SPACING AT 18"
76	SH	Sporobolus heterolepis	Prairie Dropseed	1 qt.	cont.	PLANT SPACING AT 24"

Utility pole PERC TEST DEEP HOLE ____ *Contour Line* CO —CLEAN OUT PERF—PERFORATED
TYP—TYPICAL MIN—MINIMUM
R—RADIUS MAX—MAXIMUM
BC—BOTTOM OF CURB INV—INVERT
TC—TOP OF CURB CB—CATCH BASIN
TW—TOP OF WALL
BW—BOTTOM OF WALL
BS—BOTTOM OF STAIRS ABBREVIATIONS.
EX-EXISTING
CPP-CORRUGATED POLYETHYLENE PIPE
O.C.-ON CENTER
SICPP-SMOOTH INTERIOR CORRUGATED
POLYETHYLENE PIPE

LANDSCAPING PLAN

- 1. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, ANSI
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKE OFFS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UNDERGROUND UTILITIES PRIOR TO THE START OF
- 4. ALL TREES SHALL BE LOCATED A MINIMUM DISTANCE OF FIVE FEET (5') FROM THE HORIZONTAL LINE OF UNDERGROUND UTILITIES TO THE PLANT BALL.
- 5. ALL TREES SHALL BE LOCATED A MINIMUM DISTANCE OF TEN FEET (10') FROM THE HORIZONTAL LINE OF OVERHEAD UTILITIES TO THE PLANT BALL.
- 6. PLANTING SOIL MIXTURE SHALL HAVE A RATIO VOLUME OF FOUR PARTS TOPSOIL TO ONE PART PEAT AND ONE PART COMPOST. SOIL AMENDMENTS TO BE MODIFIED PER INDIVIDUAL PLANT MATERIAL REQUIRMENTS. 7. STAKE TREES IMMEDIATELY AFTER PLANTING. REFER TO DETAIL.
- 8. PROVIDE ALL PLANTING BEDS WITH A CONTINUOUS 3" LAYER OF MULCH. MULCH TO BE PROVIDE AS FOLLOWS: 100% SHREDDED HARDWOOD MULCH, NO GREATER THAN ONE INCH (1") IN SIZE, UNIFORMLY MIXED AND FREE
- 9. SEED ALL AREAS NOT PAVED, PLANTED OR SPECIFIED OTHERWISE WITH LAWN SEED. A. LAWN SEED MIXTURE SHALL BE PROVIDED AS FOLLOWS.

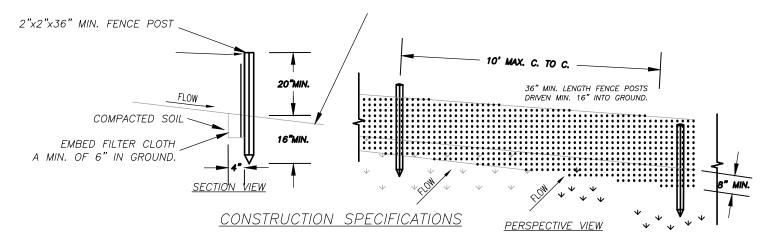
	% BY WEIGHT	% BY PURITY	% BY GERM
'REPELL', 'CITATION' & 'MORNING STAR	40	85	85
PERENNIAL RYE GRASS			
'JAMESTOWN II'. 'FORTRESS', 'ENSYLVA'	20	97	80
RED FESCUE			
'BARON' & 'MIDNIGHT'	40	85	80
KENTUCKY BLUEGRASS			

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

- STARTING FERTILIZER: 5:10:10 AT 20 LBS PER 1,000 SF. 10. PROPOSED PLANT MATERIALS SHALL BE FIELD LOCATED AND THE CONTRACTOR SHALL PERFORM A ROUGH STAKEOUT OF PLANTINGS FOR REVIEW AND APPROVAL BY OWNER PRIOR TO PLANTING.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF PLANT MATERIALS AND SEEDING
- AREAS UNTIL FINAL ACCEPTANCE. 12. A MINIMUM OF 1 YEAR GUARANTEE SHALL BE PROVIDED ON ALL PLANT MATERIALS FROM DATE OF FINAL ACCEPTANCE.

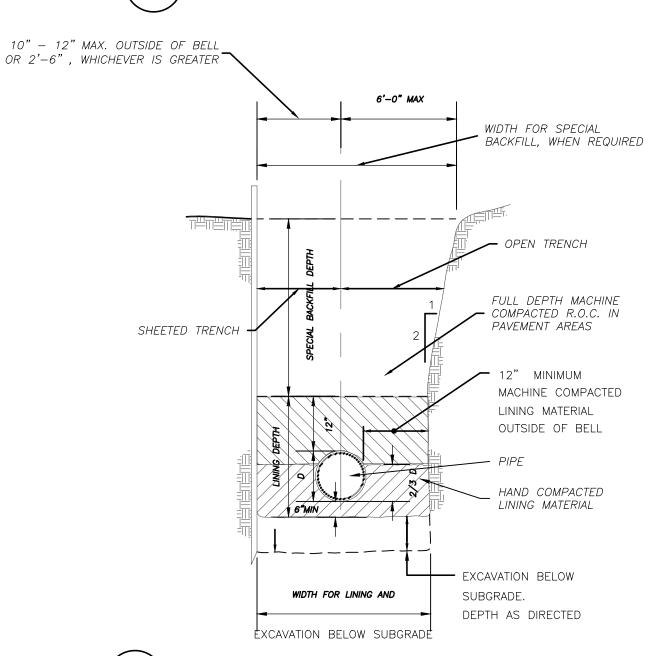
MarksEngineering

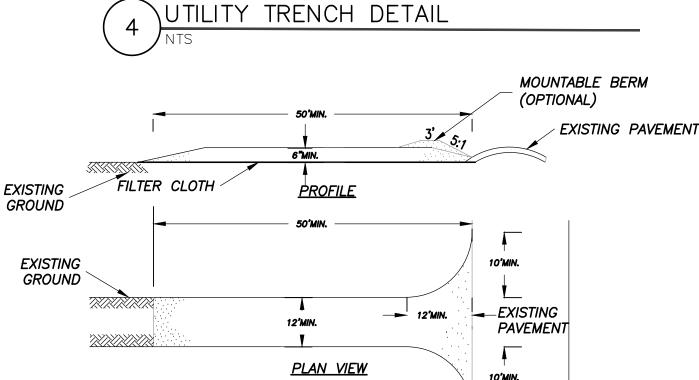
LANDSCAPING PLAN DRAWN BY: BAMDESIGNED BY: BAMCHECKED BY: 1"=10' 20-203 JOB NO.: 02/10/2021 DATE: TAX MAP#: 127.19-2-30.11



- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- 2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO POSTS WITH STAPLES.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIRONMENT, OR APPROVED EQUIVALENT.
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

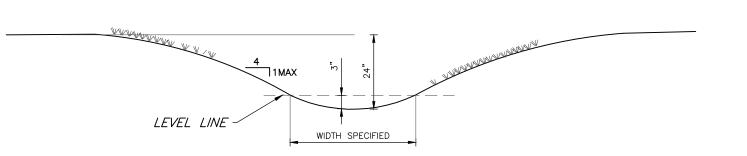
TYPICAL SILT FENCE DETAIL





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 GARAGE 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
- 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
 - TABILIZED CONSTRUCTION ENTRANCE



TYPICAL SWALE CROSS SECTION

DECIDUOUS TREE - PRUNE

<u>NOTES:</u> 1. SWALES SHALL BE SMOOTH GRADED AND LIGHTLY COMPACT. 2. SWALES SHALL BE MOWABLE WITH STANDARD PUSH MOWER. 3. SWALES SHALL NOT BE FORMED IN MUD OR SATURATED SOILS. UNACCEPTABLE SOILS SHALL BE REMOVED AND REPLACED WITH 6" OF CLEAN TOPSOIL PRIOR TO SEEDING AND STABILIZATION. 4. SWALE SHALL BE SEEDED AND STBILIZED WITH STRAW BLANKET/JUTE FABRIC NETTING STAPLED AS PER MANUFACTURES RECOMMENDATIONS.

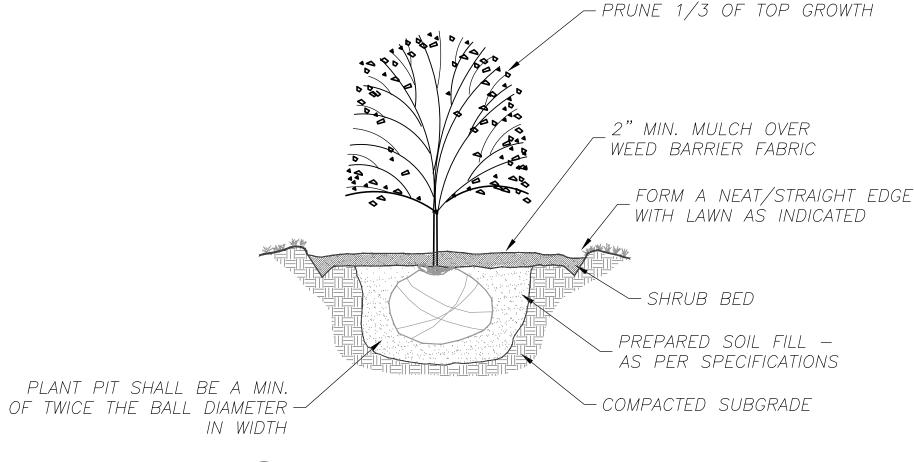
EVERGREEN TREE

WIRE GUIDE LINE W/ RUBBER

HOSE AT TREE TRUNK

3" MIN. BEDDING #1 STONE MATERIAL

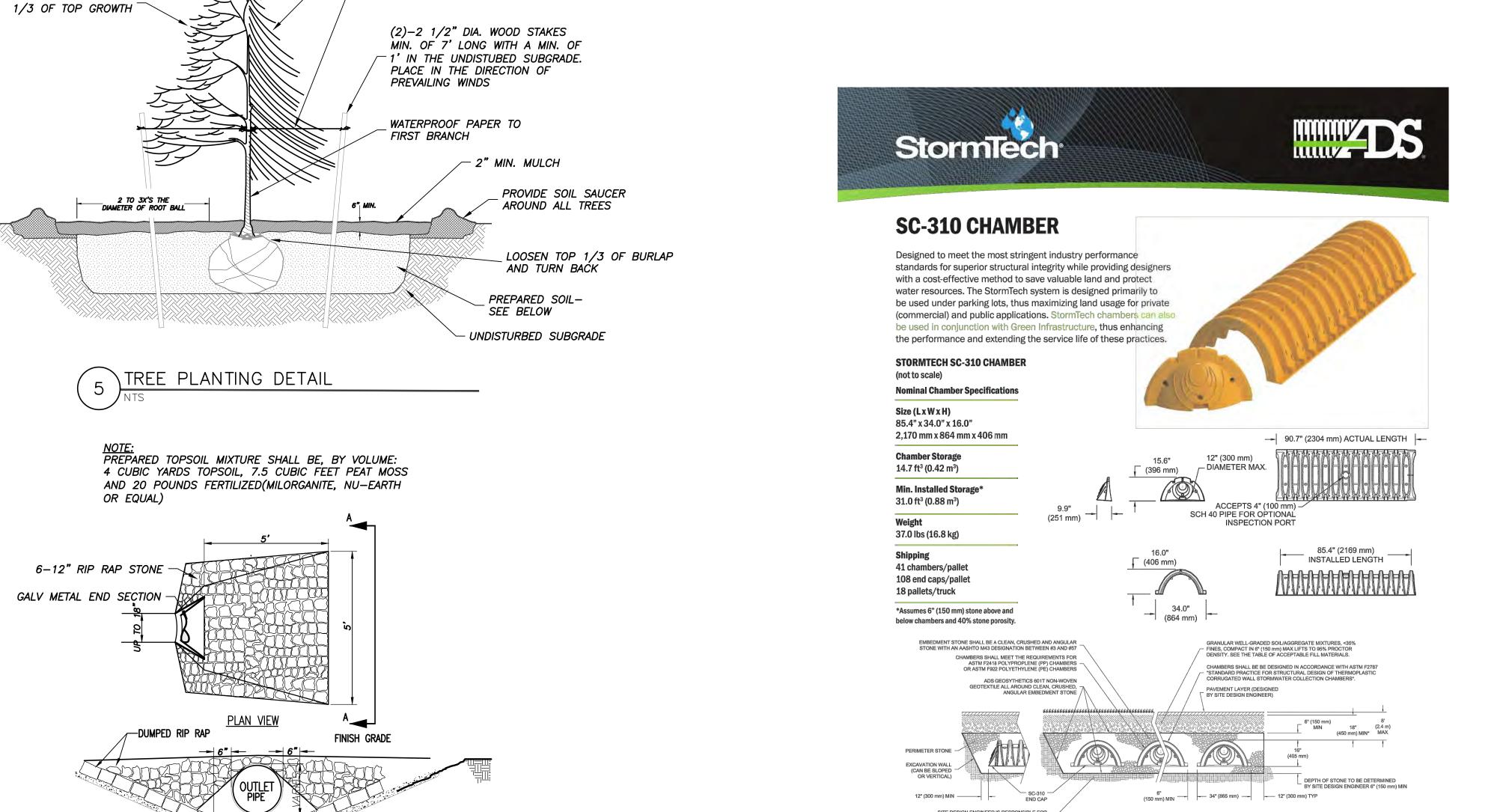
RIP-RAP OUTLET PROTECTION



SHRUB PLANTING DETAIL

PREPARED TOPSOIL MIXTURE SHALL BE, BY VOLUME: 4 CUBIC YARDS TOPSOIL, 7.5 CUBIC FEET PEAT MOSS AND 20 POUNDS FERTILIZED(MILORGANITE, NU-EARTH OR EQUAL)

*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).



MarksEngineering



DETAILS DRAWN BY: BAMDESIGNED BY: BAMCHECKED BY: AS NOTED 20-203 JOB NO.: 02/10/2021

127.19-2-30.1

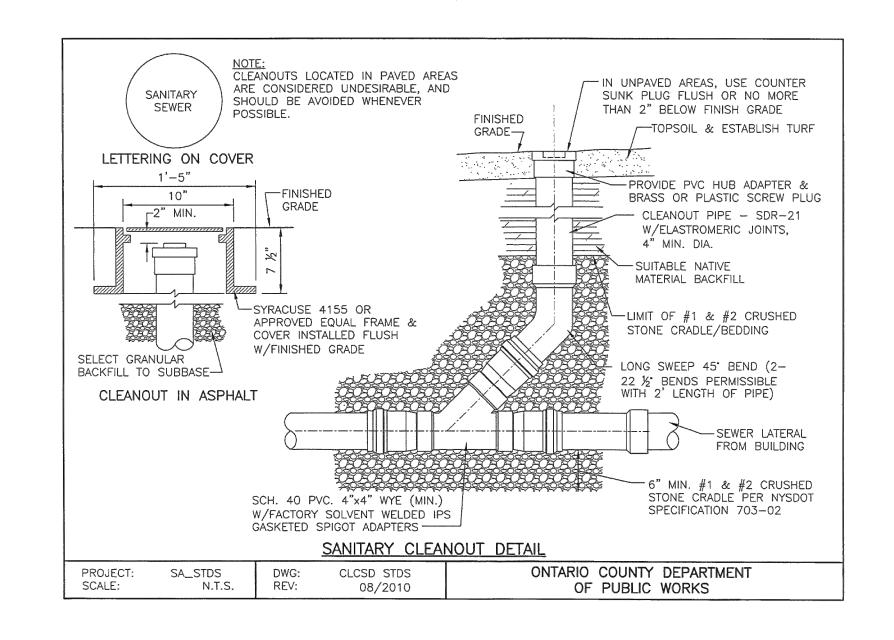
C500

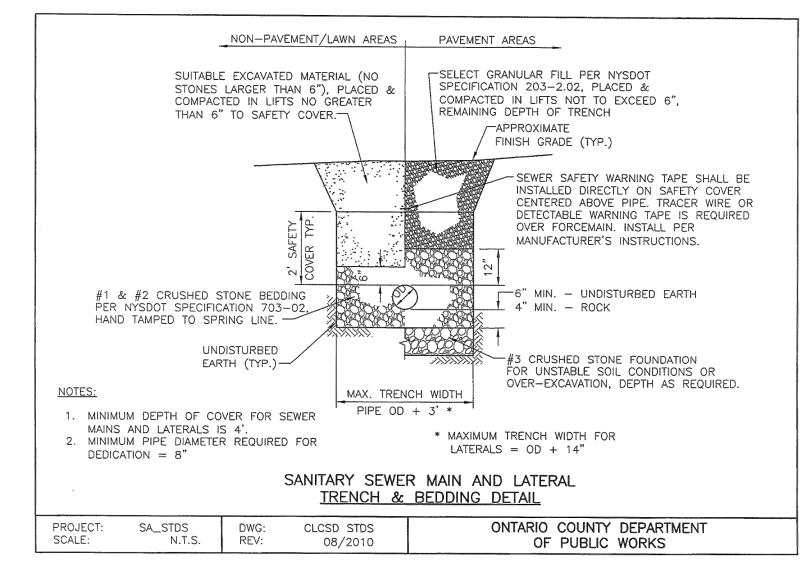
DATE:

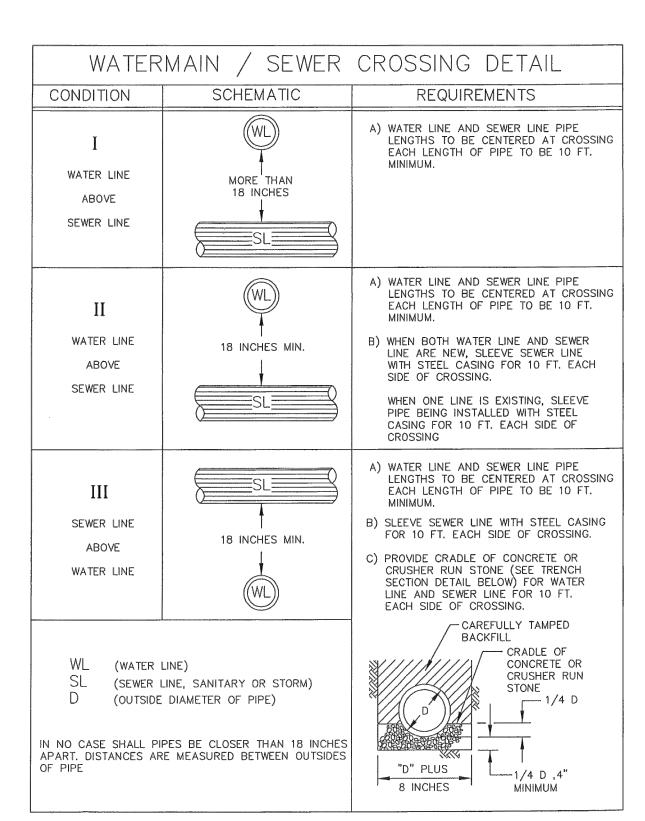
TAX MAP#:

محاو بالطبخالات

حديد بيدا







SANITARY LATERAL NOTES

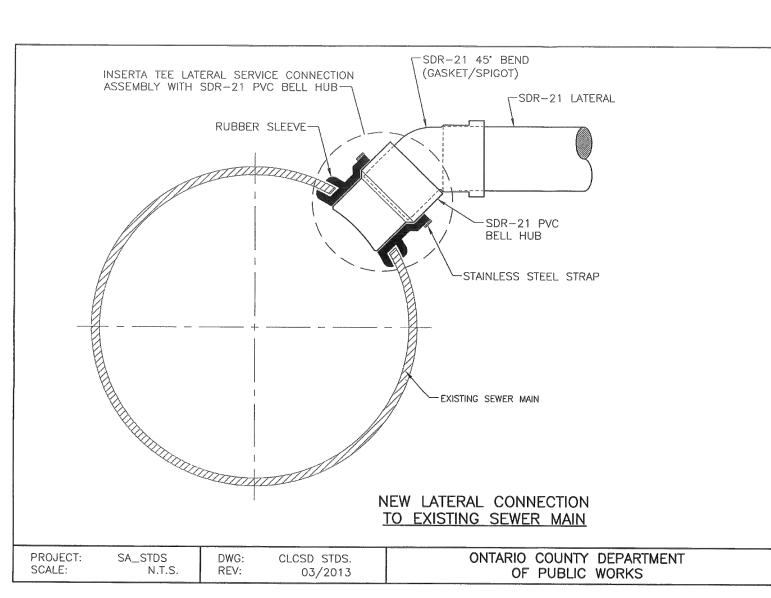
ALL PROJECTS

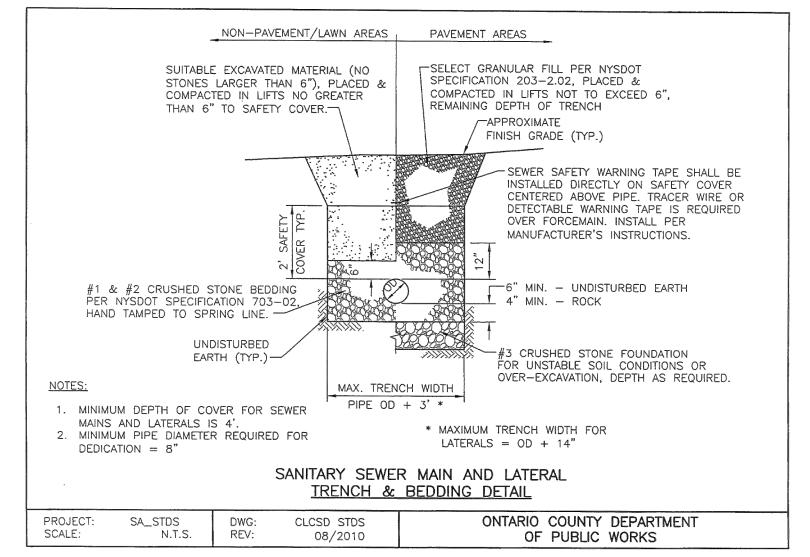
- 1. All sanitary sewer construction and/or improvements shall be in accordance with the most recent standards and specifications of the Canandaigua Lake County Sewer District, N.Y.S. Department of Environmental Conservation, N.Y.S. Department of Health, the latest edition of Recommended Standards For Wastewater Facilities and any other agencies having jurisdiction.
- 2. No sanitary sewer-related work may be performed without first obtaining a written permit from the Canandaigua Lake County Sewer District.
- 3. District personnel shall be notified a minimum of 48 hours prior to beginning any sanitary sewer-related work.
- 4. The contractor shall locate, mark and preserve any right of way monuments or survey control in the area of construction.
- 5. 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 beginning work.
- 6. Laterals shall be min. 4" dia. SDR-21 with elastomeric joints; for commercial establishments, laterals are to be 6" dia. SDR-21. Minimum depth of burial is four feet. Cleanouts shall be installed within 30 inches of the outside face of buildings, at all changes in horizontal alignment, at the right of way or easement line, and at spacing not to exceed 90 feet.
- 7. Sewer mains and laterals shall be located a minimum horizontal distance of ten feet from any existing or proposed watermain (as measured from the outside of the sewer/lateral to the outside of the watermain). In cases where the main or lateral crosses a watermain, the minimum vertical separation shall be eighteen inches (measured out-to-out). The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the
- 8. 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.
- 9. The contractor is responsible for compliance with OSHA requirements in all aspects of construction.
- 10. The contractor shall be responsible for maintaining sanitary flows at all times by methods acceptable to the District.
- 11. Floor drains in basements or garages are to be connected to the sanitary sewer. Floor drains do not include foundation or footer drains installed to intercept uncontaminated groundwater. 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 prohibits groundwater from draining into the sanitary sewer pipe cradle.

- 12. Lateral connections requiring openings in asbestos cement pipe will be designed, inspected and certified by the design engineer or representative thereof.
- 13. Any excavation not backfilled by the end of the workday shall be fenced, barricaded and lighted for safety and protection of the public.
- 14. The contractor shall be responsible for the removal of existing sanitary mains, structures and appurtenances, if any, needed to complete the work.

RENOVATION PROJECTS ONLY

- 15. Existing laterals to be disconnected must be permanently plugged or capped at the easement or right of way line under the direction of Canandaigua Lake County Sewer District personnel. The location of the plug or cap shall be recorded for as-built drawing purposes.
- 16. Prior to demolishing an existing building, the contractor shall excavate, disconnect and abandon the lateral from the building to the point of disconnection (approximately 30' from the existing building) per District standards. A temporary plug shall be installed in the remaining portion of the existing sanitary lateral until it is tested and televised.
- 17. In order to determine whether an existing sanitary lateral is acceptable for connection to a new building, the lateral shall be televised in the presence of District personnel at the owner's
- 18. If an existing lateral is found to be acceptable and meet the minimum District requirements, it shall be temporarily re-plugged and backfilled with a witness stake in place, until connection to the new building can take place.
- 19. If a new sanitary sewer lateral is required, the existing lateral must be excavated, removed and capped at the easement or right of way line in accordance with District requirements.
- 20. If a new sanitary sewer lateral is required, the connection to the existing sanitary main shall be made per District standards.





DRAWING TITLE

SANITARY DETAILS BAMBAMAS NOTED 20-203 02/10/2021 127.19-2-30.11

DRAWN BY:

DESIGNED BY:

CHECKED BY:

IOB NO.:

DATE: TAX MAP#:

C501

Engineering Marks

- 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.
- . 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 MS4 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 ONSITE 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 ONSITE 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 ONSITE PROJECT SWPPP.
- B. THE OWNER IS RESPONSIBLE FOR PROVIDING ONSITE 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 (MS4).
- 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 CODE ENFORCEMENT OFFICER.
- 10. <u>CONSTRUCTION SEQUENCE</u> 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.
- 14. ROOF LEADERS SHOULD BE CONNECTED TO STORM SEWERS WHERE POSSIBLE, UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS AND WITHIN THE PROJECT SWPPP.
- 15. NO SITE PREPARATION SHALL COMMENCE UNTIL A VISUAL INSPECTION BY THE TOWN OF CANANDAIGUA, CONFIRMS THE INSTALLATION OF PERIMETER SEDIMENT CONTROLS AND THE STABILIZED CONSTRUCTION ENTRANCE.
- 16. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF VEGETATION, THE STORM WATER MANAGEMENT FACILITIES SHALL BE CLEANED OF ACCUMULATED SILT.

- 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. 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 TWO INCHES OF SOIL SHOULD BE LOOSENED BY DISKING, RAKING, OR BACK-BLADING WITH A
 BUILDOZER

HORTICULTURAL TESTING LAB AND THE SOIL TESTS SPECIFICALLY INDICATE A PHOSPHORUS DEFICIENCY

- BULLDOZER.

 FERTILIZE WITH 300 POUNDS PER ACRE (OR 7 POUNDS PER 1,000 SQUARE FEET).

 NO PHOSPHORUS SHALL BE USED UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY
- THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS 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 IN THE SOIL TEST
- FOLLOWING ALL NYSDEC REGULATIONS.

 THE FOLLOWING SEED MIX SHALL BE USED:

SPRING/SUMMER/EARLY FALL	LBS/ACRE	LBS/1,000 SQ. ACRE
ANNUAL RYE GRASS PERENNIAL RYEGRASS	30 30	0.7 0.7
LATE FALL/EARLY WINTER		
CEREAL 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 <u>PERMANENT LAWN SEEDING MIX</u> UPON COMPLETION OF GRADING AND CONSTRUCTION:

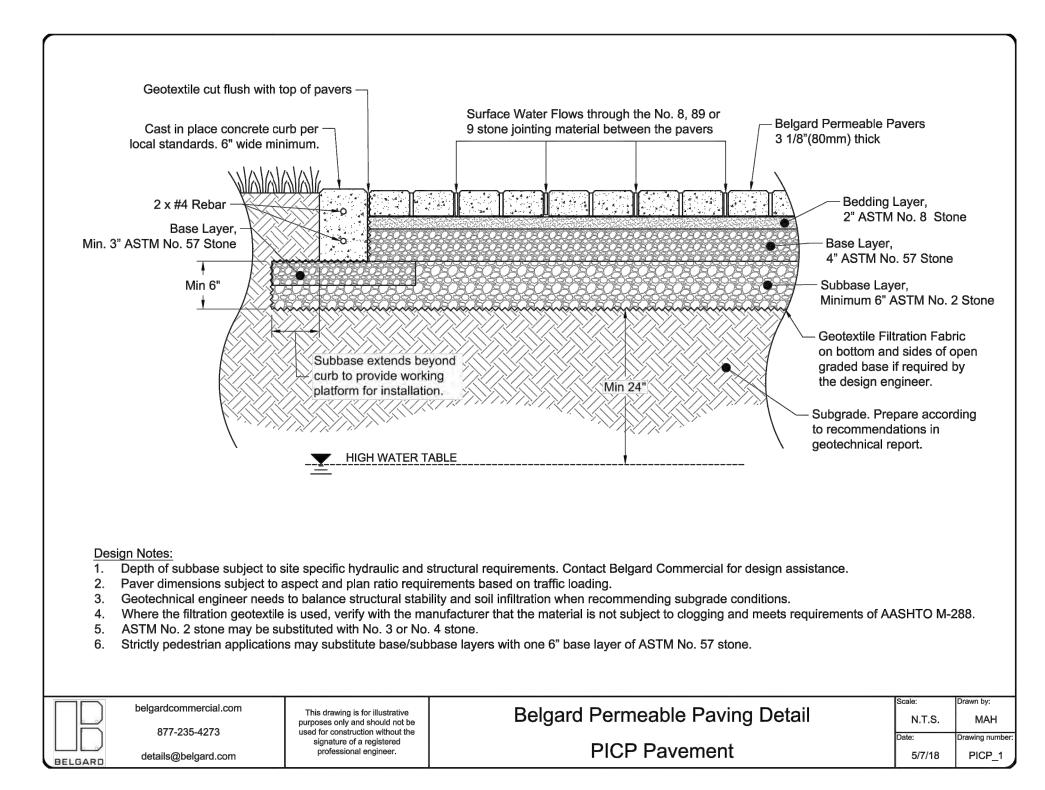
LBS/ACRE	LBS/1,000 SQ. AC
8 OR 8	0.20 OR 0.20
20	0.45
2 OR 5	0.05 OR 0.10
	8 OR 8 20

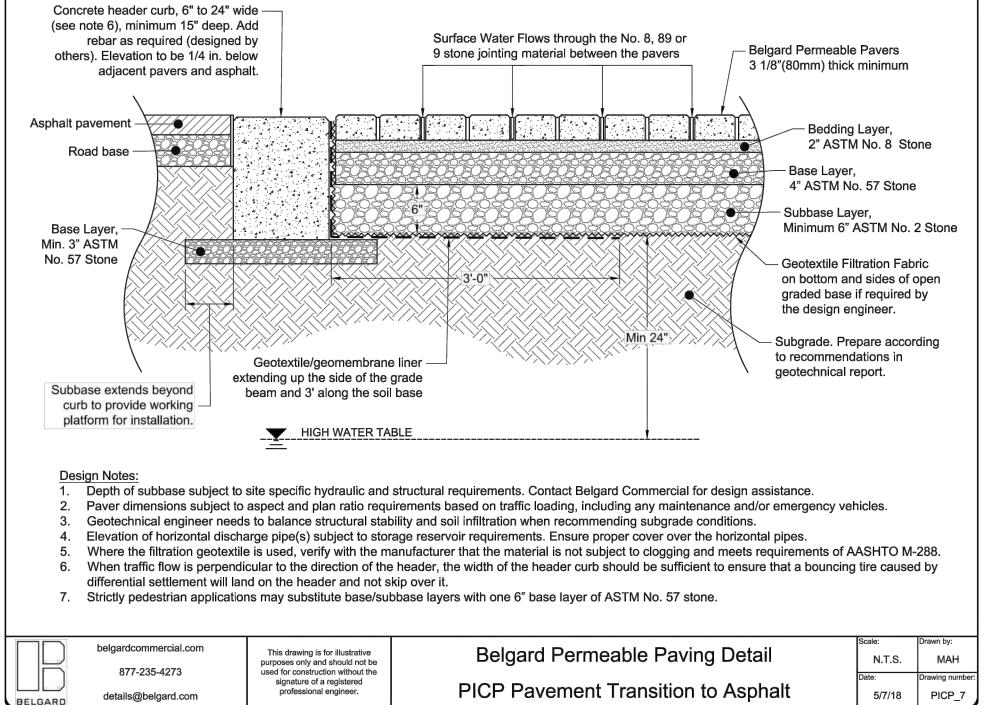
- SEEDING RATE: 6.0 POUNDS PER 1.000 SQUARE FEET
- MULCH: STRAW OR WOOD FIBER MULCH USED WITH HYRDO SEEDING METHOD AT TWO TONS PER ACRE WITH TACKIFIER.
- FOR FALL OR EARLY WINTER, SEED WITH CERTIFIED "AROOSTOCK" WINTER RYE (CEREAL RYE) AT 100 POUNDS PER ACRE.
- PERMANENT STABILIZATION FOR STEEP SLOPES GREATER THAN 3:1 SHALL INCLUDE JUTE MESH BLANKET AND CROWN VETCH SEED WITH PERENNIAL RYEGRASS.
- 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 HEREIN WERE PLOTTED FROM FIELD LOCATIONS AND/OR UTILITY COMPANY RECORD PLANS. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL THE DIG SAFELY NEW YORK (UFPO) HOTLINE AT 1-800-962-7962 FOR STAKEOUT OF EXISTING UTILITIES. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION AND ELEVATION 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.

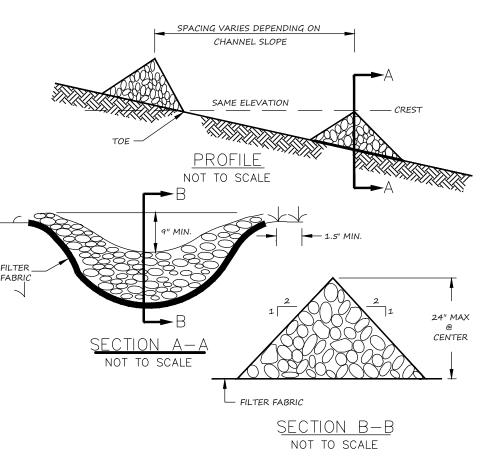
- 21. THE HOMEBUILDER WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING INDIVIDUAL LOT EROSION & SEDIMENT CONTROL MEASURES, DURING HOUSE CONSTRUCTION. MEASURES TO BE MAINTAINED UNTIL FINAL LOT LAWN GRADING AND SITE IS FULLY STABILIZED AND INSPECTED BY THE TOWN OF CANANDAIGUA.
- 22. ANY ADDITIONAL EROSION 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 GROUND 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, DRAINAGE WAYS 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.

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. AN EXAMPLE OF A CONSTRUCTION SEQUENCE IS THE FOLLOWING:

- •• INSTALL PERIMETER SEDIMENT CONTROLS, (I.E. EROSION FENCING).
- •• INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- •• PROTECT VEGETATION TO REMAIN.
- •• CLEAR GRUB AND CONSTRUCT DIVERSIONARY SWALES AND SEDIMENT BASINS.
- •• COMPLETE CLEARING AND GRUBBING OPERATION.
- •• PLACE EROSION CONTROL MEASURES AROUND TOPSOIL STOCKPILES AND STRIP TOPSOIL LOCATIONS.
- •• CONSTRUCT SWALES AND SILTATION DEVICES AS EARTHWORK OPERATIONS PROGRESS.
- MAINTAIN EROSION CONTROL MEASURES AND PLACE ADDITIONAL MEASURES AS EARTHWORK AND UNDERGROUND UTILITIES ARE CONSTRUCTED.
- •• RESTORE AREAS AS DEFINED BY CONTRACT DOCUMENTS.
- •• REMOVE EROSION CONTROL MEASURES AS AREAS ARE REESTABLISHED WITH GROUND COVER.
- •• IF SITE PREPARATIONS OCCUR BETWEEN SEPTEMBER I AND MARCH 31, ADDITIONAL EROSION CONTROLS MUST BE TAKEN INCLUDING REDUCING THE SIZE OF DISTURBED AREAS AND PLACING HEAVY STRAW MULCH WHERE PRACTICAL.







CONSTRUCTION SPECIFICATIONS

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATION SHOWN 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 TOE 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 DOWMSTREAM 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 OR BLOCKAGE FROM DISPLACED STONES.



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REVISIONS AND APPROVALS

NO. DATE DESCRIPTION OF REVISION OR APPROVAL

1 2/17/21 PER PRC REVIEW MCF

r SUSAN LEWIS W RESIDENCE WING LAND IN: DUNTY ROAD 16

JOHN & SUSAN L NEW RESIDENC SHOWING LAND I 4210 COUNTY ROAD

DRAWING TITLE:

DETAILS

DRAWN BY: MCF

DESIGNED BY: BAM

CHECKED BY: BAM

SCALE: AS NOTED

JOB NO.: 20-203

DATE: 02/10/2021

127.19-2-30.1

C502

TAX MAP#

BLOCK RETAINING WALL DETAIL

— PLACE PINS IN <u>REAR</u> SET OF PIN CORES

— PLACE PINS IN <u>FRONT</u> SET OF PIN CORES

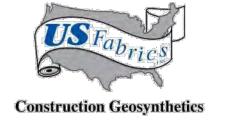
7.1° BATTER:

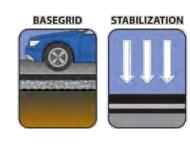
PIN INSTALLATION DETAIL

NTS

BACK OF PIN — ALIGNING CORE TO FULLY ABUT PIN

BACK OF PIN — ALIGNING CORE TO FULLY ABUT PIN





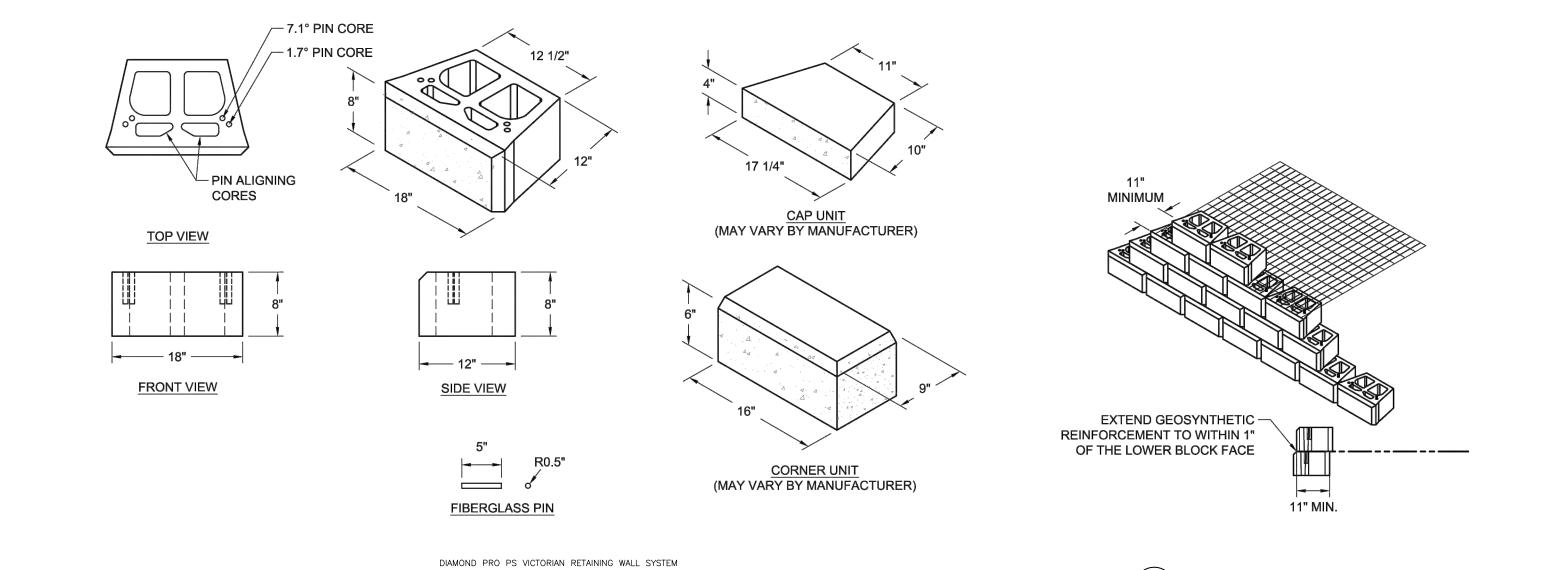
BaseGrid 11

BaseGrid 11 is an integrally formed, polypropylene, bi-axial geogrid with a load transfer mechanism of positive mechanical interlock. BaseGrid 11 is designed for base reinforcement and subgrade improvement. BaseGrid 11 meets the following M.A.R.V. values except where noted:

Property	Test Method	English	Metric	
Aperture Dimensions (Nominal)	Measured	1.0 x 1.3 inches	25 x 33 mm	
Minimum Rib Thickness (Nominal)	Measured	0.03 x 0.03 inches	0.76 x 0.76 mm	
Tensile Strength @ 2% Strain	ASTM D-6637	280 x 450 lb/ft	4.1 x 6.6 kN/m	
Tensile Strength @ 5% Strain	ASTM D-6637	580 x 920 lb/ft	8.5 x 13.4 kN/m	
Ultimate Tensile Strength	ASTM D-6637	850 x 1,300 lb/ft	12.4 x 19.0 kN/m	
Junction Efficiency	GRI-GG2-05	93%	93%	
Flexural Stiffness	ASTM D-7748	250,000 mg-cm	250,000 mg-cm	
Aperture Stability	USCOE Method (Torsional Rigidity)	0.32 m-N/deg	0.32 m-N/deg	
Resistance to Installation Damage (SC-SW-GP)	ASTM D-5818/ASTM D-6637	95%SC/93%SW/90%GP	95%SC/93%SW/90%GI	
Resistance to Long Term Degradation	EPA 9090	100%	100%	
Resistance to UV Degradation @ 500 Hours	ASTM D-4355	100%	100%	

Roll Size	Roll Diameter	Area	Weight
13.1' x 246'	13.0 in	359 sys	135 lbs

REINFORCEMENT CONNECTION DETAIL



INDIVIDUAL BLOCK DETAILS

MarksEngineering

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	BY	MGF			
REVISIONS AND APPROVALS	A TE DESCRIPTION OF REVISION OR APPROVAL	PER PRC REVIEW			
EI	4TE.	7/21			

NEW RESIDENCE SHOWING LAND IN: 4210 COUNTY ROAD 16 TOWN OF CANANDAIGUA

)
DRAWING TITLE: DETAI	LS
DRAWN BY:	MCF
DESIGNED BY:	BAM
СНЕСКЕД ВУ:	BAM
SCALE:	AS NOTED
JOB NO.:	20-203
DATE:	02/10/2021

127.19-2-30.111

C503

TAX MAP#:

Diamond Pro® PS

Retaining Wall Installation Instructions









For more information visit Belgard.com

STAKE OUT THE WALL

· A surveyor shall locate the proposed base of wall location. Verify the wall location with the project supervisor.

EXCAVATION

- Excavate for the leveling pad to the lines and grades shown on the approved plans and excavate enough soil behind the wall for the geosynthetic reinforcement material (if required).
- The trench for the leveling pad should be at least 2 feet wide and a minimum of 1 foot (minimum) deep, enough to bury the first course below grade, plus 6 inches for the leveling pad. See Diagram 1.

LEVELING PAD

- An aggregate leveling pad is made of compactible base material of 3/4-inch minus with fines.
- If the planned grade along the wall front will change elevation, the leveling pad may be stepped up by the height of the block (typically 8-inch increments) to match the grade change. Always start at the lowest level and work upward.
- Compact the 6 inch (minimum thickness) aggregate leveling pad, using ordinary compaction methods, to provide a level, hard surface on which to place the base course. Mist lightly with water before compaction, if needed. See Diagram 2.
- For walls with step-ups in the base course, extra care should be given to properly compact the aggregate leveling pad at the step-up locations.

BASE COURSE

- This is the most important step in the installation process.
- Begin laying block at the lowest elevation of the wall, whenever possible.
- Place first block and level, front to back and side to side; lay subsequent blocks in same manner.
- Use string along back edge of the block to check for proper alignment. See Diagram 3.
- Place the blocks side by side, flush against each other, and make sure the blocks are in full contact with the leveling pad. Level front to back and side to side. See Diagram 4.

- If the wall is on an incline, don't slope the blocks. Step them up so they remain consistently level.
- Place soil in front of the base course and compact. Base course should be buried. Continue to fill and compact after each course is laid.

PIN PLACEMENT

- Each unit has two sets of pin cores. The pin cores closest to the face of the block will create a near vertical system. The pin cores closest to the back of the block will create a 1-inch setback with a 7.1° system batter. Additional system batters can be created by alternating pin placement on each course of wall.
- Install pins prior to filling the cores and voids between the blocks. See Diagram 5.

CONSTRUCTION OF THE NEXT COURSE

- Place 12 inches (minimum) of drainage aggregate between, and directly behind the wall units. Fill voids in wall units with free draining aggregate. Place backfill soil and compact. Only lightweight hand operated compaction equipment is allowed within 3 feet from the back of the wall. See Diagram 6.
- Remove excess fill from top of units before placement of the next course.
- Place the next course of blocks over the pins using the pin alignment cores. Align pins into the core of the unit. Pull each block forward as far as possible to engage the pins. Maintain running bond with row below.
- On curves, use partial units to stay on bond. A circular saw with a masonry blade is recommended for cutting partial units. Use safety glasses and other protective equipment when cutting.

DRAINAGE DESIGN (PER DESIGN)

- Each project is unique. The grades on the site will determine at what level to install the drainpipe. Place the drainpipe (4-inch perforated piping) so water drains down and away from the wall into a storm drain, or daylight just above grade.
- Fill in the area behind the blocks with clean drainage aggregate, at least 1 foot from the wall. You may need to place and backfill several courses to achieve the proper drainage level.
- The outlet pipes should be spaced not more





Diagram 6 - Core Fill



Atlanta, GA 30338

BELGARD*

than every 50 feet and at low points of the wall. **CAPPING A WALL**

- properly, it must keep clear of regular soil fill. REINFORCED BACKFILL PLACEMENT AND COMPACTION (PER PLAN)
 - · Lay caps at the elevation change and work back toward the previous step up. Cut caps with a diamond-blade saw to fit, as needed.
- Only hand operated compaction equipment is allowed within 3 feet from the back of the wall.
- If the compaction equipment is too small to achieve the required compaction, thinner lifts should be used.

· Place reinforced backfill in 6 to 8 inch loose

lifts and compact to the densities specified

on the approved wall construction plans.

In order for the drainage aggregate to function

• Install each subsequent course in a similar manner. Repeat procedure to the extent of wall height.

REINFORCEMENT PLACEMENT (PER PLAN)

- Refer to the approved wall construction plans for the reinforcement type, strength, and placement location. Measure and cut the reinforcement to the lengths shown on the plans.
- Ensure the reinforced backfill is placed and compacted flush with the top of the units and is graded reasonably flat prior to reinforcement placement. Clean any debris off the top layer of blocks prior to reinforcement placement.
- The reinforcement has a primary strength direction, which must be laid perpendicular to the wall face.
- Place the reinforcement within 1 inch of the front of the units and connect with the pins of the units. See Diagram 7.
- Place the next course of units. Pull the reinforcement hand taut and place staples, stakes, or fill at the back of the reinforcement to maintain reinforcement tension during placement of drainage aggregate and reinforced backfill.
- Place a minimum of 6 inches of reinforced backfill prior to operating equipment above the reinforcement. Avoid sudden braking or turning on fill placed over the reinforcement.

- Always start capping from the lowest elevation. If the wall elevation changes, caps can be stacked where the wall steps up.
- Carefully glue with a high-

FINISH GRADE AND SURFACE DRAINAGE

strength concrete adhesive.

- Protect the wall with a finished grade at the top and bottom. To ensure proper
- water drainage away from the wall, use 6 inches of soil with low permeability and seed or plant to stabilize the surface.
- Consult the wall design engineer if water may be directed behind the wall. If needed, create a swale to divert water away from the wall. This will minimize water seeping into the soil and drainage aggregate behind the wall.

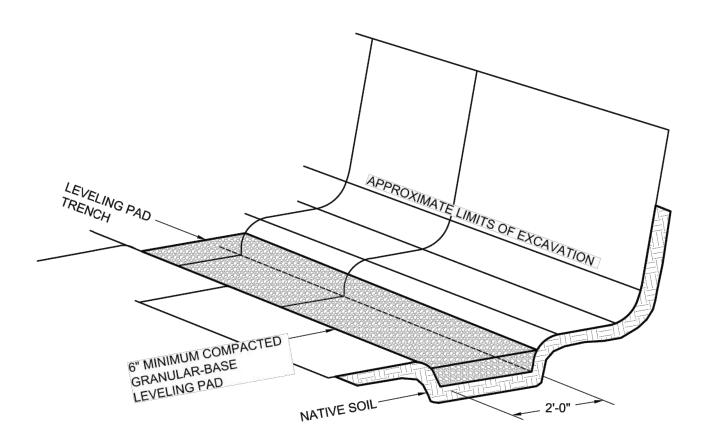
SITE CLEANING AND RESTORATION

- Brush off the wall and pick up any debris left from the construction process. Notify the job superintendent in writing of the completion and that it is ready for final inspection and acceptance.
- Planting vegetation in front and on top of the wall will help reduce the chance of erosion.
- Following these best practices for construction will ensure the success of your Anchor Wall Systems retaining wall. These instructions are meant as general guidelines. Site-specific conditions may
- Anchor Wall Systems recommends you consult a professional engineer to design walls over 4 feet high, and have compaction tested by a qualified geotechnical engineer.

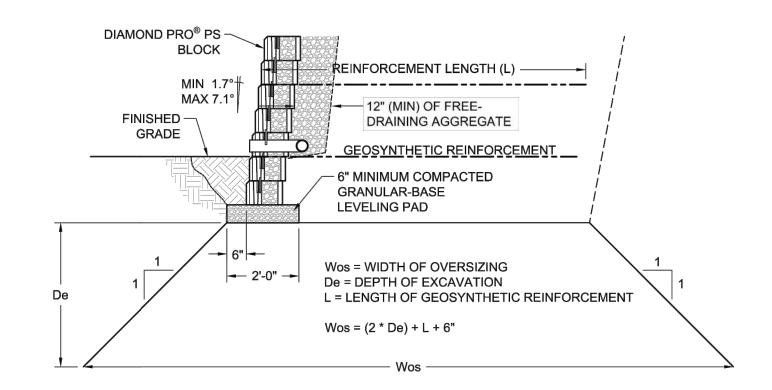
warrant additional installation requirements.

SAFETY NOTE: Always use appropriate equipment, including safety glasses or goggles and respirators, when splitting, cutting or hammering units.

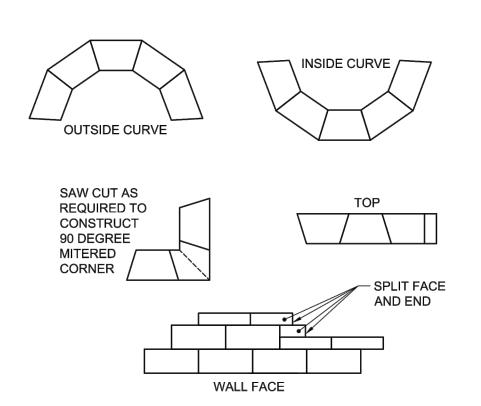
WALL INNOVATIONS BY ANCHOR" WALL SYSTEMS Oldcastle Architectural Pinterest.com/Belgard Facebook.com/BelgardHardscapes Belgard.com/Blog Facebook.com/BelgardHardscapes YouTube.com/BelgardHardscapes Twitter.com/Belgard 900 Ashwood Parkway, Suite 600 For more info visit: Belgard.com







DIAMOND PRO PS VICTORIAN RETAINING WALL SYSTEM TYPICAL EXCAVATION OVERSIZING



- 1. ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
- 2. LAYOUT CAPS PRIOR TO USING ADHESIVE.
- 3. CUT CAPS TO FIT. VARIOUS COMBINATIONS OF LONG AND SHORT CAP FACES WILL BE NECESSARY FOR RADII GREATER THAN THE MINIMUM.
- 4. ALTERNATE SHORT AND LONG CAP FACES EVERY OTHER CAP TO ACHIEVE A STRAIGHT ROW OF CAPS.
- 5. USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.



DETAILS

Engineering

Marks

DESIGNED BY: BAMCHECKED BY: AS NOTED 20-203 02/10/2021 TAX MAP#: 127.19-2-30.1