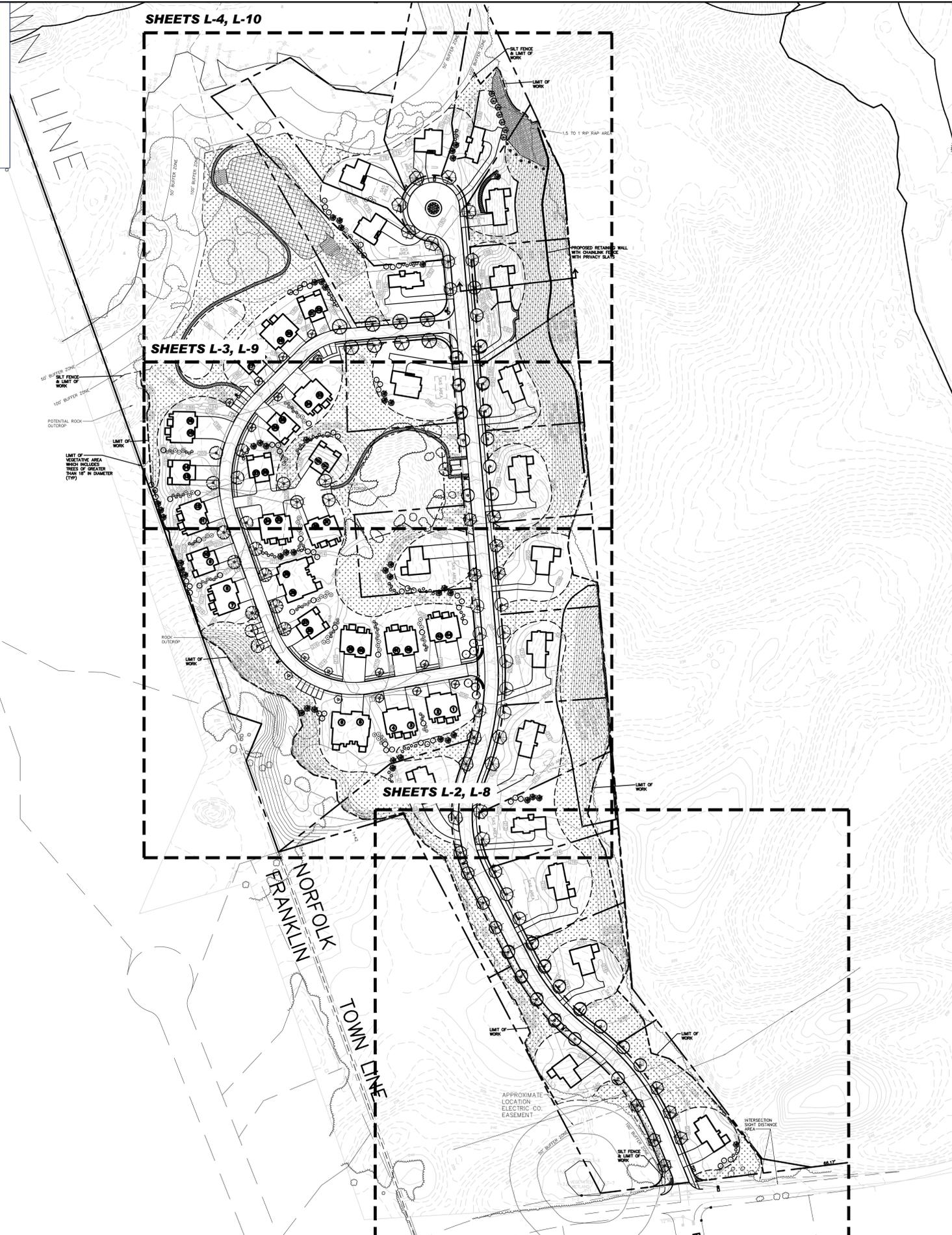




SHEETS L-4, L-10

SHEETS L-3, L-9

SHEETS L-2, L-8



SEED MIX KEY

- PROPOSED HYDROSEED
- PROPOSED BASIN SEED MIX
- PROPOSED CONSERVATION/WILDLIFE SEED MIX

COVENANTS TO BE RECORDED HEREWITH.

APPROVED _____ SUBJECT TO COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY _____

AND TO BE RECORDED HEREWITH. DATED _____

I TOWN CLERK OF THE TOWN OF NORFOLK, RECEIVED AND RECORDED FROM THE ZONING BOARD OF APPEALS APPROVAL OF THIS PLAN AND NO APPEAL HAS BEEN TAKEN FOR TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK _____

DATE _____

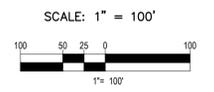
FOR REGISTRY USE ONLY

LANDSCAPE SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
SHADE TREES					
ARA	12	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG COLUMNAR RED MAPLE	3" CAL. MIN.	8-B
ARAF	14	ACER RUBRUM 'AUTUMN FLAME'	AUTUMN FLAME RED MAPLE	3" CAL. MIN.	8-B
GTK	11	QUERCUS TRIACANTHOS 'SKYCOLE'	SKYLINE THORNLESS HONEYLOCUST	3" CAL. MIN.	8-B
LTL	4	LIRIODENDRON TULIPIFERA 'LITTLE VOLUNTEER'	DWARF TULIP POPLAR	3" CAL. MIN.	8-B
NS	8	NYSSA SYLVATICA	SOURGUM OR TUPELO	3" CAL. MIN.	8-B
PCCA	8	PIRUS CALLERYANA 'CAPITAL'	CAPITAL PEAR	3" CAL. MIN.	8-B
QP	15	QUERCUS PALUSTRIS	PIN OAK	3" CAL. MIN.	8-B
QR	10	QUERCUS RUBRA	RED OAK	3" CAL. MIN.	8-B
TTGM	16	TILIA TOMENTOSA 'GREEN MOUNTAIN'	GREEN MOUNTAIN SILVER LINDEN	3" CAL. MIN.	8-B
UAP	7	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	3" CAL. MIN.	8-B
ZS	8	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	3" CAL. MIN.	8-B
SUBTOTAL:	113				
ORNAMENTAL TREES					
PKD	6	PRUNUS X 'OKAME'	OKAME CHERRY	2-2 1/2" CAL.	8-B
SUBTOTAL:	6				
EVERGREEN TREES					
PCC	60	PINUS CEMBRA 'CHALET'	COMPACT SWISS STONE PINE	5-6'	8-B
PIC	46	PICEA ORIENTALIS 'GRACILIS'	ORIENTAL SPRUCE	6-7'	8-B
POBR	18	PICEA OMORICA 'BRUNS'	BRUNS SERBIAN SPRUCE	6-7'	8-B
PPFA	50	PICEA PUNGENS GLAUCA 'FAT ALBERT'	COMPACT COLORADO BLUE SPRUCE	7-8'	8-B
PSS	7	PINUS STROBUS	EASTERN WHITE PINE	3-4'	8-B
PS	7	PINUS STROBUS	EASTERN WHITE PINE	6-8'	8-B
SUBTOTAL:	188				
DECIDUOUS SHRUBS					
HVCW	45	HAMELIS VIRGINIANA	COMMON WITCHHAZEL	3-4'	8-B
SUBTOTAL:	45				
EVERGREEN SHRUBS					
ICS	27	ILEX CRENATA 'STEEDS'	STEEDS JAPANESE HOLLY	30-36"	8-B
IGS	28	ILEX GLABRA 'SHAMROCK'	SHAMROCK INBERRY HOLLY	24-30"	8-B
RONZ	48	RHOODODENDRON CATAWBIENSE 'NOVA ZEMBLA'	NOVA ZEMBLA RHOODODENDRON	30-36"	8-B
RHL	24	RHOODODENDRON X 'LANDMARK'	LANDMARK RHOODODENDRON	18-24"	CONTAINER
SUBTOTAL:	127				
PERENNIALS					
LMV	61	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	1 PT.	CONTAINER
SUBTOTAL:	61				

THIS LANDSCAPE SCHEDULE IS FOR SHEETS L-2 THRU L-4.

DATE	FIELD BY:	INT.
2/14	FIELD BOOK:	KK
BK#	CALCS BY:	PG#
9/16	RRG	
9/16	DESIGNED BY:	RRG
9/16	DRAWN BY:	COMP
9/16	CHECKED BY:	CAQ



NO.	DATE	DESCRIPTION	BY
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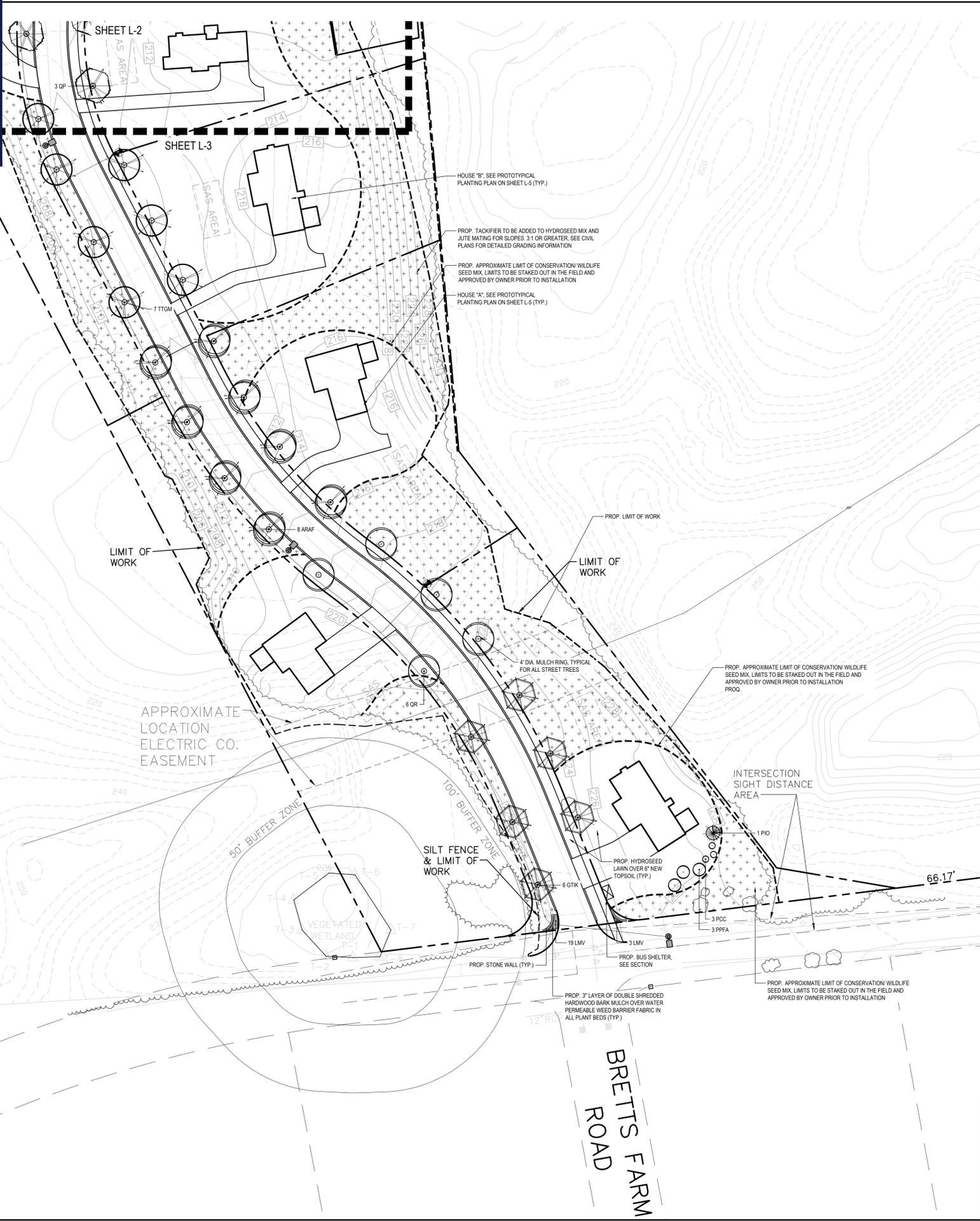
NORFOLK ZONING BOARD OF APPEALS

DATE APPROVED _____

DATE ENDORSED _____

THE PRESERVE AT ABBYVILLE
 LANDSCAPE PLANS
 NORFOLK, MASSACHUSETTS
 FOR
 ABBYVILLE RESIDENTIAL, LLC.
 850 FRANKLIN STREET
 WRENTHAM, MASSACHUSETTS
 DATE: JANUARY 30, 2019
 SCALE: AS NOTED

 M.J. MRVA REGISTERED LANDSCAPE ARCHITECT <small>MASSACHUSETTS No. 1217 RHODE ISLAND No. 419 NEW YORK No. 002359 NEW HAMPSHIRE No. 109 CONNECTICUT No. 1356 MAINE No. 4248</small>	LANDSCAPE ARCHITECT BOHLER // SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES	 UNITED CONSULTANTS INC. 850 FRANKLIN STREET SUITE 11D WRENTHAM, MASSACHUSETTS 02093 508-384-6560 FAX 508-384-6566	DATE
			SEPT. 26, 2016
SCALE			AS NOTED
PROJECT			UC987
SHEET			L-1 OF 11



SEED MIX KEY

- PROPOSED HYDROSEED
- PROPOSED BASIN SEED MIX
- PROPOSED CONSERVATION/WILDLIFE SEED MIX

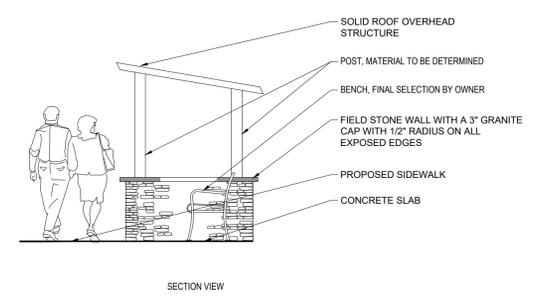
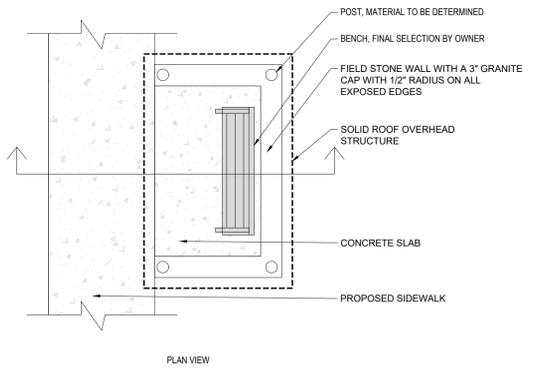
COVENANTS TO BE RECORDED HERewith.

APPROVED _____ SUBJECT TO COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY _____ DATED _____ AND TO BE RECORDED HERewith.

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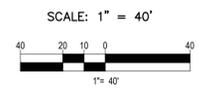
TOWN CLERK _____ DATE _____

FOR REGISTRY USE ONLY



PROPOSED BUS SHELTER
SCALE 1/4" = 1'

DATE	FIELD BY:	INT.
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1	1/4/19	ROADWAY AND LOT LAYOUT	RRG

NORFOLK ZONING BOARD OF APPEALS

DATE APPROVED _____
DATE ENDORSED _____

THE PRESERVE AT ABBYVILLE
LANDSCAPE PLANS
NORFOLK, MASSACHUSETTS
FOR
ABBYVILLE RESIDENTIAL, LLC.
850 FRANKLIN STREET
WRENTHAM, MASSACHUSETTS
DATE: JANUARY 30, 2019
SCALE: AS NOTED

 M.J. MRVA REGISTERED LANDSCAPE ARCHITECT <small>MASSACHUSETTS No. 1217 RHODE ISLAND No. 419 NEW YORK No. 002359 NEW HAMPSHIRE No. 109 CONNECTICUT No. 1358 MAINE No. 4248</small>	LANDSCAPE ARCHITECT BOHLER // SITE CIVIL AND CONSULTING ENGINEERING LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES	 UNITED CONSULTANTS INC. 850 FRANKLIN STREET SUITE 11D WRENTHAM, MASSACHUSETTS 02093 508-384-6560 FAX 508-384-6566	DATE SEPT. 26, 2016
			SCALE AS NOTED
			PROJECT UC987
			SHEET L-2 OF 11



SEED MIX KEY

- PROPOSED HYDROSEED
- PROPOSED BASIN SEED MIX
- PROPOSED CONSERVATION/WILDLIFE SEED MIX

COVENANTS TO BE RECORDED HEREWITH.

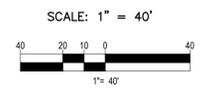
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NORFOLK ZONING BOARD OF APPEALS

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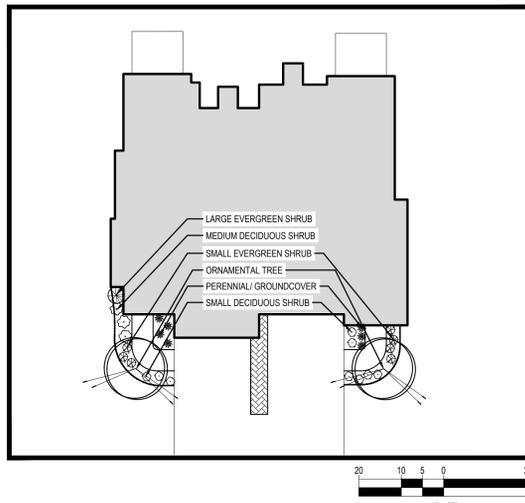
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 LANDSCAPE PLANS
 NORFOLK, MASSACHUSETTS
 FOR
 ABBYVILLE RESIDENTIAL, LLC.
 850 FRANKLIN STREET
 WRENTHAM, MASSACHUSETTS
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M.J. MRVA
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MASSACHUSETTS No. 1217
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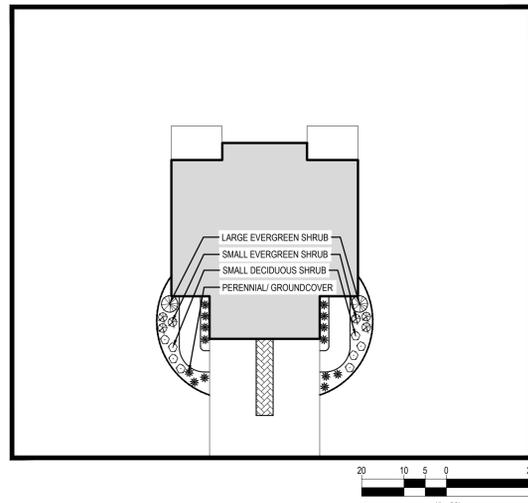
LANDSCAPE ARCHITECT
BOHLER //
 SITE CIVIL AND CONSULTING ENGINEERING
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 PERMITTING SERVICES
 TRANSPORTATION SERVICES

UNITED CONSULTANTS INC.
 850 FRANKLIN STREET SUITE 11D
 WRENTHAM, MASSACHUSETTS 02093
 508-384-6560 FAX 508-384-6566

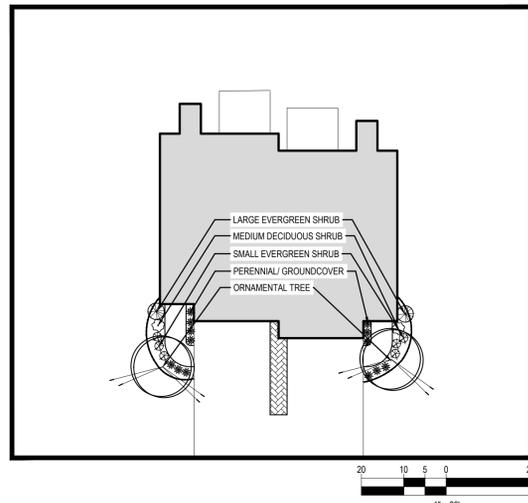
DATE	SEPT. 26, 2016
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PROJECT	UC987
SHEET	L-3 OF 11



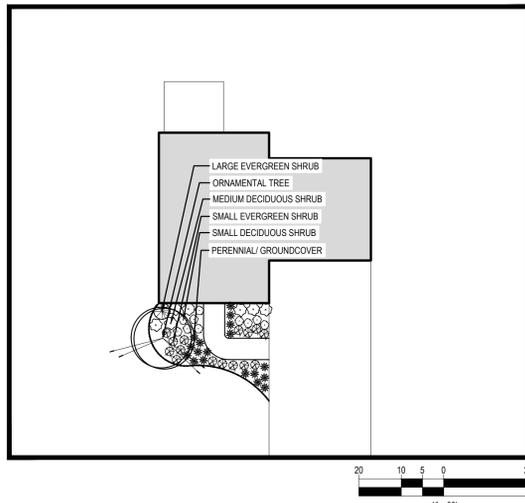
UNIT 'A' - PROTOTYPICAL LANDSCAPE PLAN
SCALE: 1"=20'



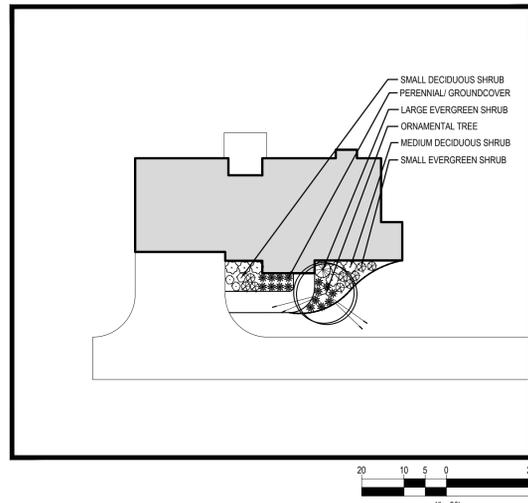
UNIT 'B' - PROTOTYPICAL LANDSCAPE PLAN
SCALE: 1"=20'



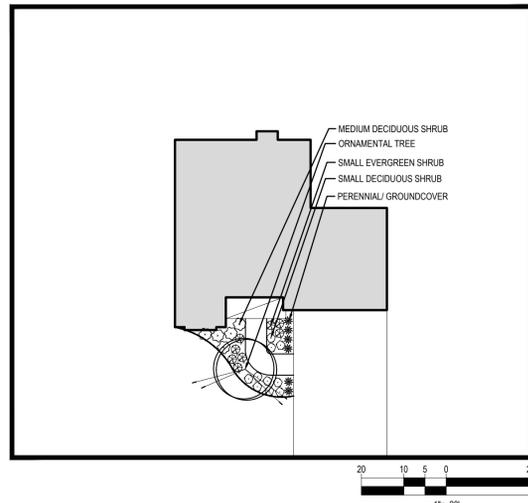
UNIT 'C' - PROTOTYPICAL LANDSCAPE PLAN
SCALE: 1"=20'



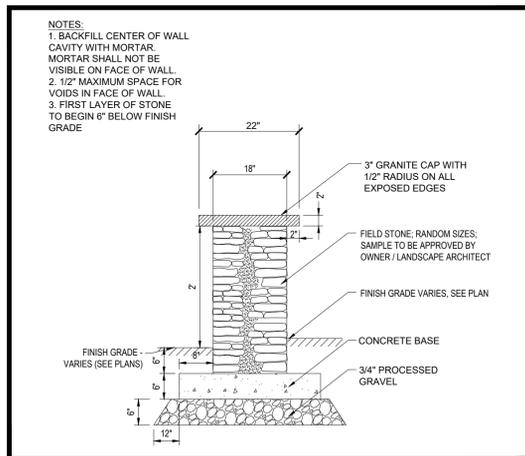
HOSUE 'A' - PROTOTYPICAL LANDSCAPE PLAN
SCALE: 1"=20'



HOUSE 'B' - PROTOTYPICAL LANDSCAPE PLAN
SCALE: 1"=20'



HOUSE 'C' - PROTOTYPICAL LANDSCAPE PLAN
SCALE: 1"=20'



STONE WALL
SCALE: NTS

COVENANTS TO BE RECORDED HERewith.

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PROTOTYPICAL UNIT PLANT LIST	
ORNAMENTAL TREES (1 PER HOUSE, 1.5-2' CALIPER)	EASTERN REDBUD, OKAME CHERRY, PEEGEE HYDRANGEA (TREE FORM), FLOWERING PEAR VARIETIES, KOUSA DOGWOOD VARIETIES, FLOWERING DOGWOOD VARIETIES, FLOWERING CRABAPPLE VARIETIES.
LARGE EVERGREEN SHRUBS (1-2 PER HOUSE, 30-36" HEIGHT)	LANDMARK RHODODENDRON, FERNLAF FALSE CYPRESS, EMERALD ARBORVITAE, KETELEERI JUNIPER, CHINA GIRL/ CHINA BOY HOLLY, PAM RHODODENDRON, HATFIELD YEW/AGLO RHODODENDRON, COMMON BOXWOOD.
MEDIUM DECIDUOUS SHRUBS (3-4 PER HOUSE, 30-36" HEIGHT)	CLETHRA "RUBY SPICE", WINTERBERRY "RED SPRITE", ENDLESS SUMMER HYDRANGEA, OAKLEAF HYDRANGEA, WEIGLA "WINE & ROSES", AZALEA "WESTON'S INNOCENCE".
SMALL EVERGREEN SHRUBS (3-5 PER HOUSE, 12-18" HEIGHT)	KOREAN BOXWOOD, HETZ MIDGET ARBORVITAE, PUMILO MUGO PINE, JAPANESE HOLLY, MT. LAUREL "ELF", RAMAPO RHODODENDRON, WILSON RHODODENDRON.
SMALL DECIDUOUS SHRUBS (3-5 PER HOUSE, 12-18" HEIGHT)	KNOCKOUT ROSE, WEIGELA "SPILLED WINE", MOTHER'S DAY AZALEA, DWARF FOTHERGILLA, CARYOPTERIS, SPIREA "NEON FLASH", SPIREA "LITTLE PRINCESS."
GROUND COVER & PERENNIALS (6-10 PER HOUSE)	RUSSIAN CYPRESS, SARGENT JUNIPER, BAR HARBOR JUNIPER, NIKKO DEUTZIA, ROCKSPRAY COTONEASTER, SHASTA DAISSY, DWARF FOUNTAIN GRASS, CATMINT "WALKERS LOW", BLACK-EYED SUSAN, SEDUM "AUTUMN JOY", "HAPPY RETURNS" DAYLILY.

NO.	DATE	DESCRIPTION	BY
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NORFOLK ZONING BOARD OF APPEALS

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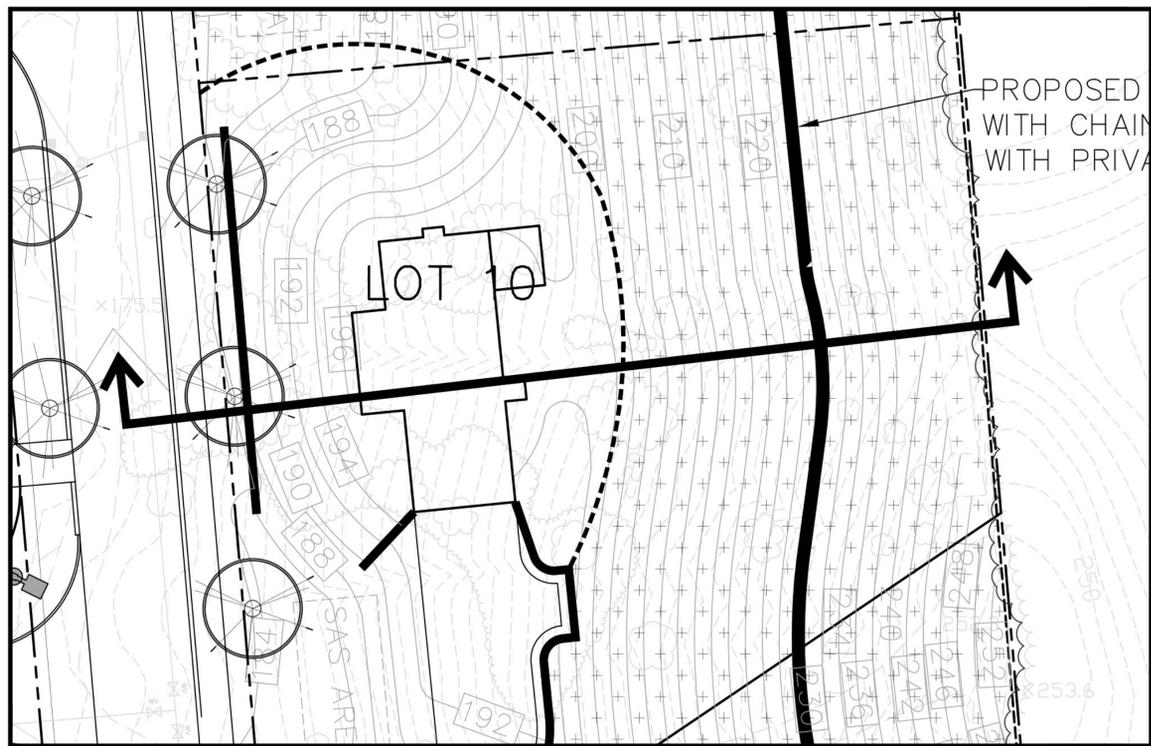
THE PRESERVE AT ABBYVILLE
LANDSCAPE PLANS
NORFOLK, MASSACHUSETTS
FOR
ABBYVILLE RESIDENTIAL, LLC.
850 FRANKLIN STREET
WRENTHAM, MASSACHUSETTS
DATE: JANUARY 30, 2019
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LANDSCAPE ARCHITECT
BOHLER //
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
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UNITED CONSULTANTS INC.
850 FRANKLIN STREET SUITE 11D
WRENTHAM, MASSACHUSETTS 02093
508-384-6560 FAX 508-384-6566

DATE
SEPT. 26, 2016
SCALE
AS NOTED
PROJECT
UC987
SHEET
L-5 OF 11



WALL SECTION PLAN VIEW
SCALE: 1"=20'



REDI-ROCK RETAINING WALL
BLOCK WILL NOT BE STAINED AND WILL REMAIN AS NATURAL CONCRETE

COVENANTS TO BE RECORDED HERewith.

APPROVED _____ SUBJECT TO COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY _____

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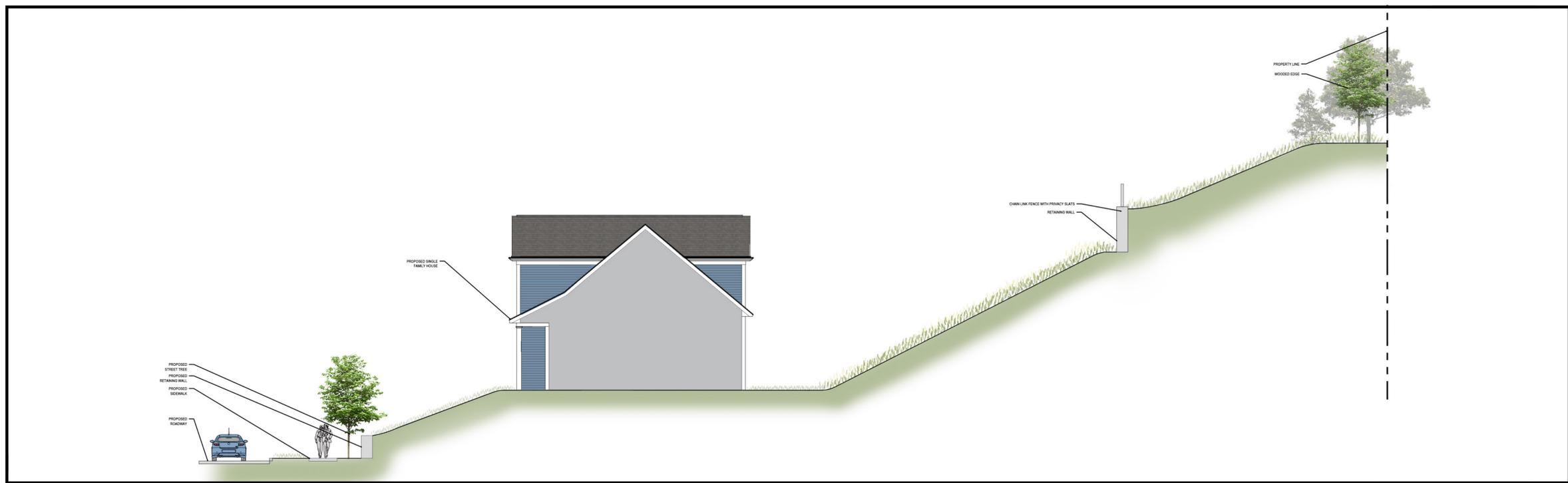
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850 FRANKLIN STREET
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WALL SECTION
SCALE: 1"=10'

M.J. MRVA
REGISTERED LANDSCAPE ARCHITECT
MASSACHUSETTS No. 12117
RHODE ISLAND No. 419
NEW YORK No. 002559
NEW HAMPSHIRE No. 1029
CONNECTICUT No. 13569
MAINE No. 4248

LANDSCAPE ARCHITECT
BOHLER //
SITE CIVIL AND CONSULTING ENGINEERING
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508-384-6560 FAX 508-384-6566

DATE	SEPT. 26, 2016
SCALE	AS NOTED
PROJECT	UC987
SHEET	L-6 OF 11

LANDSCAPE SPECIFICATIONS

- SCOPE OF WORK:
 - THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
- MATERIALS:
 - GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
 - TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
 - LAWN - ALL UNDISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM 6" THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED ON THE LANDSCAPE PLAN.
 - LAWN SEED MIXTURE SHALL BE FRESH, CLEAN AND NEW CROP SEED.
 - SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/PEST FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.
 - MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES /DETAILS.
 - FERTILIZER
 - FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
 - FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.
 - PLANT MATERIAL
 - ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN).
 - IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
 - PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
 - TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1/2", WHICH HAVE NOT BEEN COMPLETELY CALLED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
 - ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH, WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
 - CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.
 - SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
 - TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.
- GENERAL WORK PROCEDURES
 - CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
 - WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
 - SITE PREPARATIONS
 - BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.
 - ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
 - CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
 - TREE PROTECTION
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
 - A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY "VISI-FENCE", OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
 - WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
 - AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
 - SOIL MODIFICATIONS
 - CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
 - LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL, SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
 - THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
 - TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
 - TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY BE ADDED TO INCREASE DRAINAGE.
 - MODIFY EXTREMELY SANDY SOILS (LESS THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
 - FINISHED GRADING
 - UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
 - LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1").
 - ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
 - ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
 - TOPSOILING
 - CONTRACTOR SHALL PROVIDE A 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
 - ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGHOUT SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
 - ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY. [SEE SPECIFICATION 6.A.1]):
 - 20 POUNDS "GRO-POWER" OR APPROVED SOIL CONDITIONER/FERTILIZER
 - 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER
 - THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.
 - PLANTING
 - INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
 - PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.

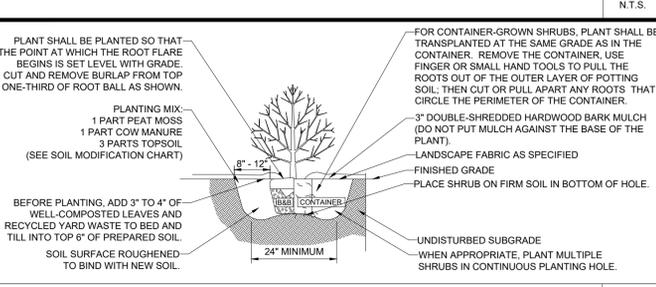
- ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
- ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
- POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
- PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS:
 - PLANTS: MARCH 15 TO DECEMBER 15
 - LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1
 - PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
- FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:

ACER RUBRUM	PLATANUS X ACERIFOLIA
BETULA VARIETIES	POPULUS VARIETIES
CARPINUS VARIETIES	PRUNUS VARIETIES
CRATAEGUS VARIETIES	PYRUS VARIETIES
KOELREUTERIA	QUERUS VARIETIES
LIQUIDAMBAR STYRACIFLUA	TILIA TOMENTOSA
LIRIODENDRON TULIPIFERA	ZELKOVA VARIETIES
- PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
 - 1 PART PEAT MOSS
 - 1 PART COMPOSTED COW MANURE BY VOLUME
 - 3 PARTS TOPSOIL BY VOLUME
 - 21 GRAMS "AGRIFORM" PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
 - 2 TABLETS PER 1 GALLON PLANT
 - 3 TABLETS PER 3 GALLON HEAT
 - 4 TABLETS PER 15 GALLON PLANT
 - LARGER PLANTS: 2 TABLETS PER 1/2" CALIPER OF TRUNK
- FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.
- ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.
- ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.
- GROUND COVER AREAS SHALL RECEIVE A 1/2" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION.
- NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS.
- ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB.
- ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.

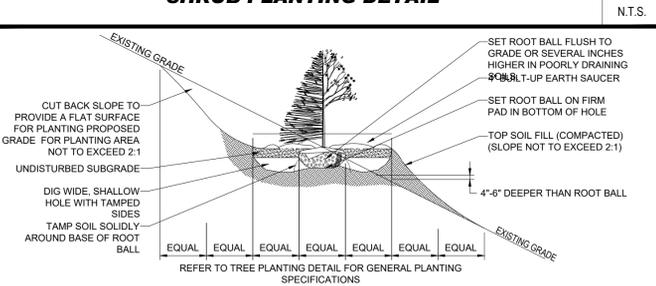
- TRANSPLANTING (WHEN REQUIRED)
 - ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.
 - IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.
 - PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
 - UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
 - TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
 - F TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.
- WATERING
 - NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
 - SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
 - IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.
- GUARANTEE
 - THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF 1 YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
 - ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.
 - TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
 - LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
- CLEANUP
 - UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
 - THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
- MAINTENANCE (ALTERNATIVE BID)
 - A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OWNER/OPERATOR MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MANICURED TO THE APPROVAL OF THE OWNER/OPERATOR.

- REINFORCED RUBBER HOSE (1/2" DIA. BLACK)
- FOLD BURLAP AWAY FROM TOP OF ROOT BALL
- 12 GAUGE GALVANIZED WIRE GUY'S TWISTED
- 2" DIA. HARDWOOD STAKES 20' TREE HT, 3 PER TREE
- TWICE THE WIDTH OF ROOTBALL FOR PREPARED SOIL FOR TREES
- PREPARED SOIL FOR TREES: 1 PART PEAT MOSS, 1 PART COW MANURE, 3 PARTS TOPSOIL (RECOMMENDATION ONLY. SEE SOIL MOD. CHART)
- UNDISTURBED SUBGRADE
- DIG WIDE, SHALLOW HOLE WITH TAMPED SIDES
- TAMP SOIL SOLIDLY AROUND BASE OF ROOT BALL
- SET ROOT BALL FLUSH TO GRADE OR SEVERAL INCHES HIGHER IN POORLY DRAINING SOILS.
- 4" BUILT-UP EARTH SAUCER
- 3" DOUBLE SHREDDED HARDWOOD BARK MULCH (UNLESS OTHERWISE SPECIFIED) (DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK)
- LANDSCAPE FABRIC AS SPECIFIED.
- ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS.
- SET ROOT BALL ON UNDISTURBED SOIL IN BOTTOM OF HOLE

TREE PLANTING DETAIL



SHRUB PLANTING DETAIL



TREE PLANTING DETAIL - ON SLOPE

- PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2" DIAMETER.
- PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
- SEEDING RATES:
 - PERENNIAL RYEGRASS: 1/2 LB/1000 SQ FT
 - KENTUCKY BLUEGRASS: 1 LB/1000 SQ FT
 - RED FESCUE: 1/2 LB/1000 SQ FT
 - SPREADING FESCUE: 1/2 LB/1000 SQ FT
 - FERTILIZER (16.32.16): 2 LB/1000 SQ FT
 - LIQUID LIME: 1 GAL/800 GAL
 - TANK TACKIFIER: 35 LB/800 GAL
 - TANK FIBER MULCH: 30 LB/1000 SQ FT
- GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDING AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

HYDROSEED SPECIFICATIONS

- "NATIVE DETENTION AREA MIX" AS PREPARED BY: APPLICATION RATE: 1/2 LB. / 1000 SQ. FT. (20 LBS. / ACRE)
- ERNST CONSERVATION SEEDS, INC. 8884 MERCER PIKE, MEADVILLE, PA 16335 PHONE: 800-873-3321 / 814-336-2404 EMAIL: SALES@ERNSTSEED.COM WEBSITE: WWW.ERNSTSEED.COM
- MIX COMPOSITION: 25.0% PANICUM VIRGATUM, 'SHELTER' (SWITCHGRASS, 'SHELTER') 24.0% PANICUM CLANDESTINUM, 'TIGCA' (DEERTONGUE, 'TIGCA') 22.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE) 21.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE) 8.0% AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE (AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE) 1.0% JUNCUS EFFUSUS (SOFT RUSH) 1.0% PANICUM RIGIDULUM, PA ECOTYPE (REDTOP PANICGRASS, PA ECOTYPE)
- "NEW ENGLAND WETLAND PLANTS, INC 820 WEST STREET, AMHERST, MA 01002 PHONE: 415-548-8000 EMAIL: INFO@NEWP.COM WEBSITE: WWW.NEWP.COM
- APPLICATION RATE: 25LBS/ACRE / 1750 SQ FT/LB MINIMUM ORDER: 2 LBS
- SPECIES: VIRGINIA WILD RYE (ELYMUS VIRGINICUS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM (ANDROPOGON GERARDII), RED FESCUE (FESTUCA RUBRA), SWITCH GRASS (PANICUM VIRGATUM), PARTRIDGE PEAS (CHAMAECRISTA FASCICULATA), PANICLED LEAF TICK TREFLOID (DESMODIUM PANICULATUM), INDIAN GRASS (SORGHASTRUM NUTANS), BLUE VERVAIN (VERBENA HASTATA), BUTTERFLY MILKWEED (ASCLEPIAS TUBEROSA), BLACK EYED SUSAN (RUBROCHIA HIRTA), COMMON SNEEZEWEED (HELENIUM AUTUNALE), HEATH ASTER (ASTERLOBUS) (PHYOTRICHUM PILOSUM), EARLY GOLDENROD (SOLIDAGO JUNCEA), UPLAND BENTGRASS (AGROSTIS PERENNANS).

BASIN SEED MIX SPECIFICATIONS

CONSERVATION/ WILDLIFE SEED MIX SPECIFICATIONS

COVENANTS TO BE RECORDED HEREWITH.

APPROVED _____ SUBJECT TO COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY _____ DATED _____ AND TO BE RECORDED HEREWITH.

I, TOWN CLERK OF THE TOWN OF NORFOLK, RECEIVED AND RECORDED FROM THE ZONING BOARD OF APPEALS APPROVAL OF THIS PLAN AND NO APPEAL HAS BEEN TAKEN FOR TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK _____ DATE _____

FOR REGISTRY USE ONLY

DATE	FIELD BY:	INT.
2/14	FIELD BOOK	KK
BK#	FIELD BOOK	PG#
9/16	CALCS BY:	RRG
9/16	DESIGNED BY:	RRG
9/16	DRAWN BY:	COMP
9/16	CHECKED BY:	CAQ

NO.	DATE	DESCRIPTION	BY
7	5/21/20	LANDSCAPE REVISIONS	ENG
6	4/08/20	PEER REVIEW COMMENTS	ENG
5	3/09/20	LANDSCAPE REVISION	ENG
4	12/2/19	REVISED LAYOUT	RRG
3	1/24/19	COMMENTS FROM HEARING	RRG
2	1/14/19	ROAD NAMES	RRG
1	1/4/19	ROADWAY AND LOT LAYOUT	RRG

NORFOLK ZONING BOARD OF APPEALS

DATE APPROVED _____
DATE ENDORSED _____

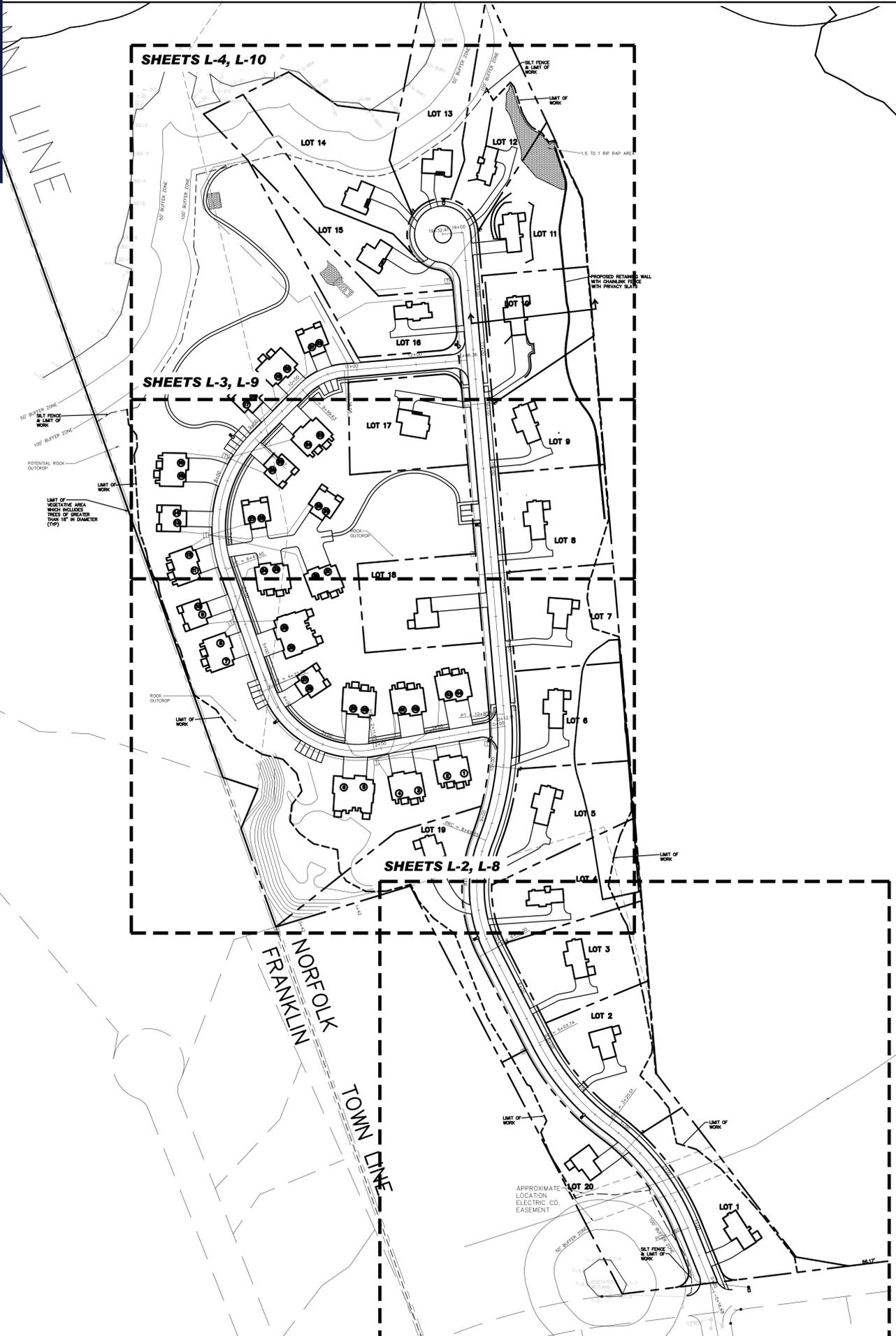
THE PRESERVE AT ABBYVILLE
LANDSCAPE PLANS
NORFOLK, MASSACHUSETTS
FOR
ABBYVILLE RESIDENTIAL, LLC.
850 FRANKLIN STREET
WRENTHAM, MASSACHUSETTS
DATE: JANUARY 30, 2019
SCALE: AS NOTED



LANDSCAPE ARCHITECT
BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

UNITED CONSULTANTS INC.
850 FRANKLIN STREET SUITE 11D
WRENTHAM, MASSACHUSETTS 02093
508-384-6560 FAX 508-384-6566

DATE
SEPT. 26, 2016
SCALE
AS NOTED
PROJECT
UC987
SHEET
L-7 OF 11



SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED
355 Lawrence Avenue (Route 1), 02172 (978) 582-3400 | www.sternberglighting.com
CONCEPTUAL ASSEMBLY DRAWING, SUBJECT TO ENGINEERING VERIFICATION BY THE FACTORY

NUMBER OF ARMS: 1
Number of Arms: One (1)

ARM: ARM MOUNTED FIXTURE: 1527
1527 Fixture: Adjustable height fixture featuring a 9" gal. aluminum ball joint end with a hand or corded edge. An aluminum cord is attached to the upper portion of the ball to allow coupling to multiple arms. Fixture features solid and rotatable optics. Available with the top clear or frosted glass.
Shade Style: 6 Round (R) (LED5)
Mounting: Mounted

LIGHT SOURCE: -SARC3072-MDL03-SV1
Armer: ARMC (60 LEDs, 60 Watts) (ARMC)
Culm Temp: 3000K (C3)
Distribution: Type 2 (T2)
Driver: Multi-Volt Dimmable Low-Frequency Driver, 120V-277V (MCL03)
Lens: PMMA Clear Acrylic Lens (SV1)

OPTIONS: -EZ
Hangstyle: EZ Vertical (EZ)

ARM: OAPT
OAPT

POLE: 550P518-188
The 12" diameter cast 6061 aluminum alloy base and aluminum shaft shall be a one-piece construction. The fixture using remote ballasts or drivers, the spacing of these components require jacking the pole. The pole shall be U.L. or E.T.L. listed in U.S. and Canada. All pole heights to have a tolerance of ± 2".
Model: 550
Shaft Type: Straight (S) (incl. 6061-T6 Aluminum Alloy) (P5)
Height: 18 ft (18)
Finish: (188) (188)

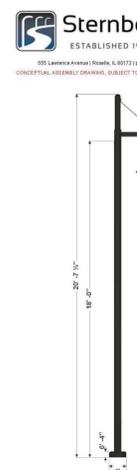
FINISH: BK
Assembly shall be powder coated to Black Smooth finish. Prior to coating, the assembly shall be chemically cleaned and etched in a 3-stage washing system which includes alkaline cleaning, rinsing, phosphate electro, reverse osmosis water rinsing, and non-chrome sealing to ensure corrosion resistance.

Wind Load Evaluation
The assembly, as configured, MEETS ASHRAE requirements for wind loading.
Wind Speed: 60 mph
Gust Factor: 1.14

Arms and Accessory Orientation
OAPT
0°
-90°
-270°

(6) 3/8" x 18" Anchor Bolts, 8-5/16" Bolt Circle, Diamond Pattern
Access Door Orientation: Street Side Orientation
Street Side Orientation
0°
180°

Job Name: Customer Signature: Drawing #03901
Job Location: Date: 2018/02/09 1 of 2



SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED
355 Lawrence Avenue (Route 1), 02172 (978) 582-3400 | www.sternberglighting.com
CONCEPTUAL ASSEMBLY DRAWING, SUBJECT TO ENGINEERING VERIFICATION BY THE FACTORY

NUMBER OF ARMS: 1
Number of Arms: One (1)

ARM: ARM MOUNTED FIXTURE: 1527
1527 Fixture: Adjustable height fixture featuring a 9" gal. aluminum ball joint end with a hand or corded edge. An aluminum cord is attached to the upper portion of the ball to allow coupling to multiple arms. Fixture features solid and rotatable optics. Available with the top clear or frosted glass.
Shade Style: 6 Round (R) (LED5)
Mounting: Mounted

LIGHT SOURCE: -SARC3072-MDL03-SV1
Armer: ARMC (60 LEDs, 60 Watts) (ARMC)
Culm Temp: 3000K (C3)
Distribution: Type 2 (T2)
Driver: Multi-Volt Dimmable Low-Frequency Driver, 120V-277V (MCL03)
Lens: PMMA Clear Acrylic Lens (SV1)

OPTIONS: -EZ
Hangstyle: EZ Vertical (EZ)

ARM: OAPT
OAPT

POLE: 550P518-188
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Street Side Orientation
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180°

Job Name: Customer Signature: Drawing #03901
Job Location: Date: 2018/02/09 2 of 2

○ STREET LIGHT FIXTURE OR APPROVED EQUAL

COVENANTS TO BE RECORDED HEREWITH.

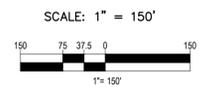
APPROVED _____ SUBJECT TO COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY _____ DATED _____ AND TO BE RECORDED HEREWITH.

I, TOWN CLERK OF THE TOWN OF NORFOLK, RECEIVED AND RECORDED FROM THE ZONING BOARD OF APPEALS APPROVAL OF THIS PLAN AND NO APPEAL HAS BEEN TAKEN FOR TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK _____ DATE _____

FOR REGISTRY USE ONLY

DATE	FIELD BY:	INT.
2/14	FIELD BOOK:	KK
9/16	CALCS BY:	RRG
9/16	DESIGNED BY:	RRG
9/16	DRAWN BY:	COMP
9/16	CHECKED BY:	CAQ



NO.	DATE	DESCRIPTION	BY
7	5/21/20	LANDSCAPE REVISIONS	ENG
6	4/08/20	PEER REVIEW COMMENTS	ENG
5	3/09/20	LANDSCAPE REVISION	ENG
4	12/2/19	REVISED LAYOUT	RRG
3	1/24/19	COMMENTS FROM HEARING	RRG
2	1/14/19	ROAD NAMES	RRG
1	1/4/19	ROADWAY AND LOT LAYOUT	RRG

NORFOLK ZONING BOARD OF APPEALS

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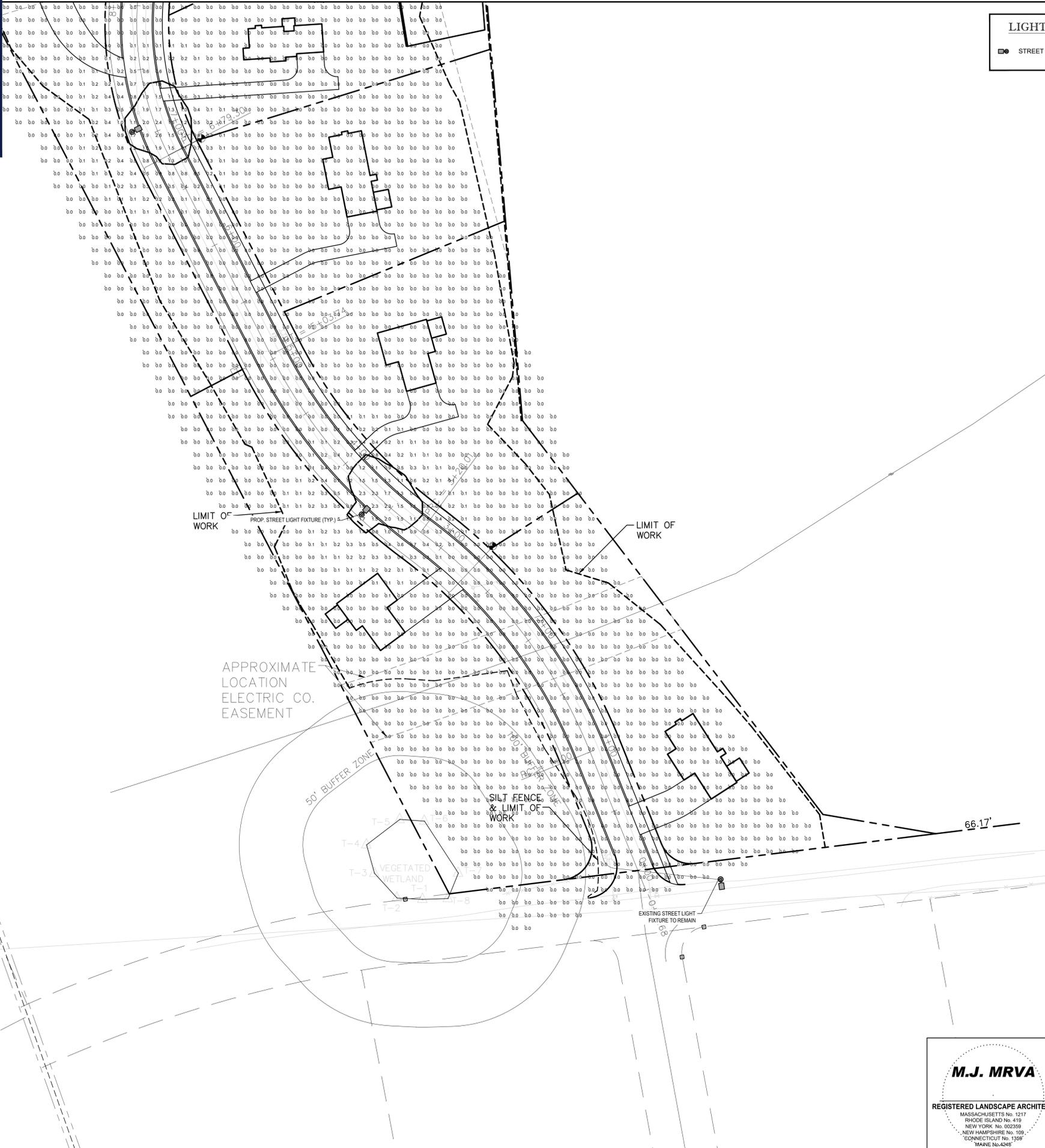
THE PRESERVE AT ABBYVILLE
LANDSCAPE PLANS
NORFOLK, MASSACHUSETTS
FOR
ABBYVILLE RESIDENTIAL, LLC.
850 FRANKLIN STREET
WRENTHAM, MASSACHUSETTS
DATE: JANUARY 30, 2019
SCALE: AS NOTED

M.J. MRVA
REGISTERED LANDSCAPE ARCHITECT
MASSACHUSETTS No. 1217
RHODE ISLAND No. 419
NEW YORK No. 002559
NEW HAMPSHIRE No. 109
CONNECTICUT No. 1356
MAINE No. 4248

BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

UNITED CONSULTANTS INC.
850 FRANKLIN STREET SUITE 11D
WRENTHAM, MASSACHUSETTS 02093
508-384-6560 FAX 508-384-6566

DATE	SEPT. 26, 2016
SCALE	AS NOTED
PROJECT	UC987
SHEET	L-8 OF 11



LIGHT LEGEND
 STREET FIXTURE LOCATION

COVENANTS TO BE RECORDED HERewith.

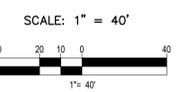
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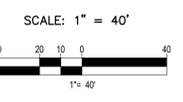
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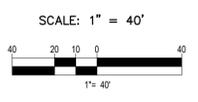
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