

### LANDSCAPE SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
<b>SHADE TREES</b>					
ARAF	31	ACER RUBRUM 'AUTUMN FLAME'	AUTUMN FLAME RED MAPLE	2 1/2" CAL.	B-H
ARF	22	ACER RUBRUM 'FRANKS RED'	RED SUNSET MAPLE	2 1/2" CAL.	B-H
AROG	21	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2" CAL.	B-H
AS	41	ACER SACCHARUM	SUGAR MAPLE	2 1/2" CAL.	B-H
ASGM	14	ACER SACCHARUM 'GREEN MOUNTAIN'	GREEN MOUNTAIN SUGAR MAPLE	2 1/2" CAL.	B-H
CCA	41	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2 1/2" CAL.	B-H
CJ	32	QUERCUS PALUSTRIS	PIN OAK	2 1/2" CAL.	B-H
CLK	18	CLADRASTIS KENTUCKEA	YELLOWWOOD	2-2 1/2" CAL.	B-H
GTI	43	QUERCUS TRIMACANTHOS INERMIS	THORNLESS HONEYLOCUST	2 1/2" CAL.	B-H
NS	29	NYSSA SYLVATICA	SOURGUM OR TUPELO	2 1/2" CAL.	B-H
TCG	24	TILIA CORDATA 'GREENSPRIR'	GREENSPRUE LINDEN	2 1/2" CAL.	B-H
ZS	59	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2 1/2" CAL.	B-H
<b>SUBTOTAL:</b>	<b>375</b>				
<b>ORNAMENTAL TREES</b>					
BN	12	BETULA NIGRA	MULTI STEM RIVER BIRCH	12-14"	B-H
CF	6	CORNUS FLORIDA	WHITE FLOWERING DOGWOOD	2-2 1/2" CAL.	B-H
MS	12	MALUS SARGENTII	SARGENT CRABAPPLE	2-2 1/2" CAL.	B-H
MSC	6	MAGNOLIA STELLATA 'CENTENNIAL'	CENTENNIAL MAGNOLIA	2-2 1/2" CAL.	B-H
<b>SUBTOTAL:</b>	<b>38</b>				
<b>EVERGREEN TREES</b>					
PM	82	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6-7	B-H
PN	32	PINUS NIGRA	AUSTRIAN PINE	6-7	B-H
PPG	86	PICEA PUNGENS GLAUCA	COLORADO BLUE SPRUCE	7-8	B-H
PS	87	PINUS STROBUS	EASTERN WHITE PINE	6-7	B-H
<b>SUBTOTAL:</b>	<b>287</b>				

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 \_\_\_\_\_

I DECLARE THAT THIS PLAN HAS BEEN PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

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

### GRAPHIC SCALE

1" = 120'

DATE	REVISIONS	LD
1/15/18		
	DESCRIPTION	BY

- ### LEGEND
- PROPOSED SPECIAL PAVING
  - PROPOSED SEEDED LAWN
  - PROPOSED BASIN MIX
  - PROPOSED CONSERVATION MIX
  - PROPOSED REFORESTATION AREA
  - PROPOSED TREE LINE
  - PROPOSED STREET LIGHTING
  - PROPOSED MAILBOX
  - PROPOSED GAZEBO
  - ABBYVILLE COMMONS

### NORFOLK ZONING BOARD OF APPEALS

DATE APPROVED \_\_\_\_\_

DATE ENDORSED \_\_\_\_\_

#### REFORESTATION AREA (TYPICAL OF 3 AREAS)

**PLANT LIST**  
 DECIDUOUS TREES: MINIMUM SIZE 3/4" CALIPER, MAXIMUM SIZE 2" CALIPER  
 EVERGREEN TREES: MINIMUM SIZE 2' HEIGHT, MAXIMUM SIZE 4' HEIGHT  
 NATIVE SPECIES TO INCLUDE: RED MAPLE, RED OAK, SUGAR MAPLE, AMERICAN BEECH, SHAGBARK HICKORY, EASTERN WHITE PINE, AMERICAN HOLLY, EASTERN RED CEDAR.

**WILDFLOWER MEADOW MIX**  
 SPECIES LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), RED FESCUE (FESTUCA RUBRA), INDIAN GRASS (SORGHASTRUM NUTANS), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), CANADA WILD RYE (ELYMUS CANADENSIS), RIVERBANK WILD RYE (ELYMUS RIPARIUS), BUTTERFLY MILKWEED (ASCLEPIAS TUBEROSA), BLACK EYED SUSAN (RUDBECKIA HIRTA), LANCE LEAVED COREOPSIS (COREOPSIS LANCEOLATA), OX EYE SUNFLOWER (HELIOPSIS HELIANTHOIDES), COMMON SNEEZEWEED (HELENIUM AUTUMNALE), MARSH BLAZING STAR (LIATRIS SPICATA), BLUE VERVAIN (VERBENA HASTATA), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), WILD BLUE FALSE INDIGO (BAPTISIA AUSTRALIS), HOLLOWSTEM JOE PYE WEED (EUPATORIUM FISTULOSUM), EUTROCHIUM FISTULOSUM, EARLY GOLDENROD (SOLIDAGO JUNCEA).

PROJECT REFERENCE:  
 ABBYVILLE COMMONS

**M.J. MRVA**  
 REGISTERED  
 LANDSCAPE ARCHITECT  
 MASSACHUSETTS No. 1247  
 RHODE ISLAND No. 419  
 NEW YORK No. 002359  
 NEW HAMPSHIRE No. 109  
 CONNECTICUT No. 1359

LANDSCAPE ARCHITECT

**BOHLER ENGINEERING**  
 352 TURNPIKE ROAD  
 SOUTHBOROUGH, MA  
 Phone: (508) 490-9900

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

DATE  
 SEPT. 26, 2016

SCALE  
 1" = 120'

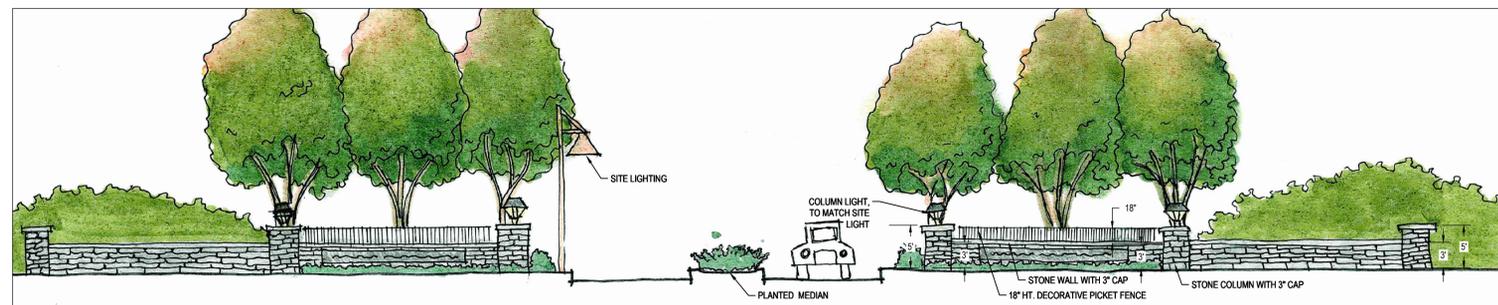
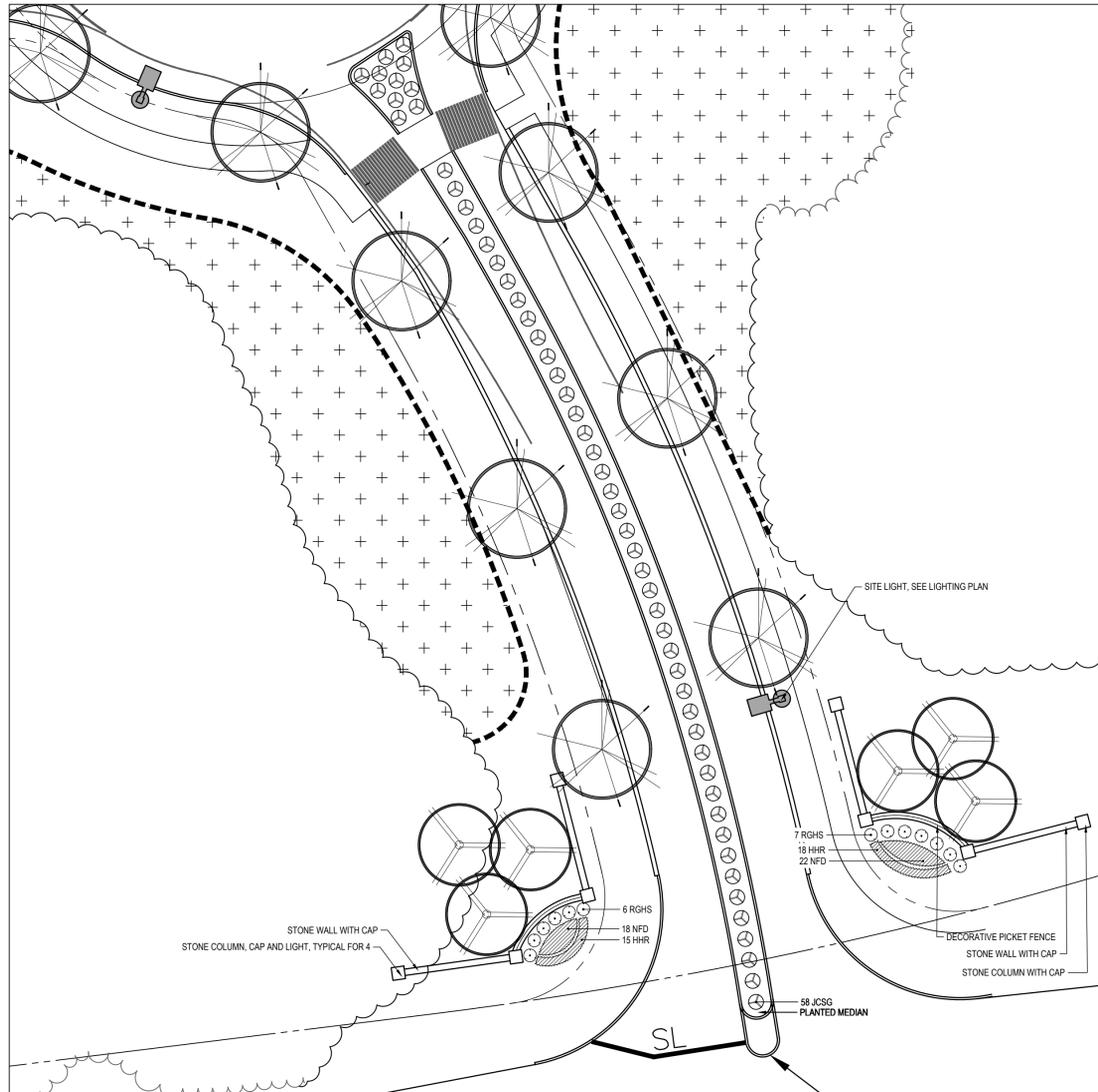
PROJECT  
 UC987

SHEET

THE PRESERVE AT ABBYVILLE  
 & ABBYVILLE COMMONS  
 LANDSCAPE MASTER PLAN  
 NORFOLK, MASSACHUSETTS  
 FOR  
 ABBYVILLE RESIDENTIAL, LLC.  
 850 FRANKLIN STREET  
 WRENTHAM, MASSACHUSETTS  
 DATE: MARCH 15, 2017  
 SCALE: 1" = 120'

LANDSCAPE SCHEDULE					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
EVERGREEN SHRUB(S)					
JCSG	58	JUNIPERUS OHNENSIS 'SEA GREEN'	SEA GREEN JUNIPER	24-30" SPRD.	B-B
RGHS	13	RHOODODENDRON X GIRARD 'GIRARD HOT SHOT'	GIRARD HOT SHOT AZALEA	18-24"	#3 CAN
SUBTOTAL:	71				
PERENNIAL(S)					
HHR	33	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	2 GAL.	CONTAINER
NFD	40	NEPETA X FASSENI 'DROPMORE'	DROPMORE CAT MINT	2 GAL.	CONTAINER
SUBTOTAL:	73				

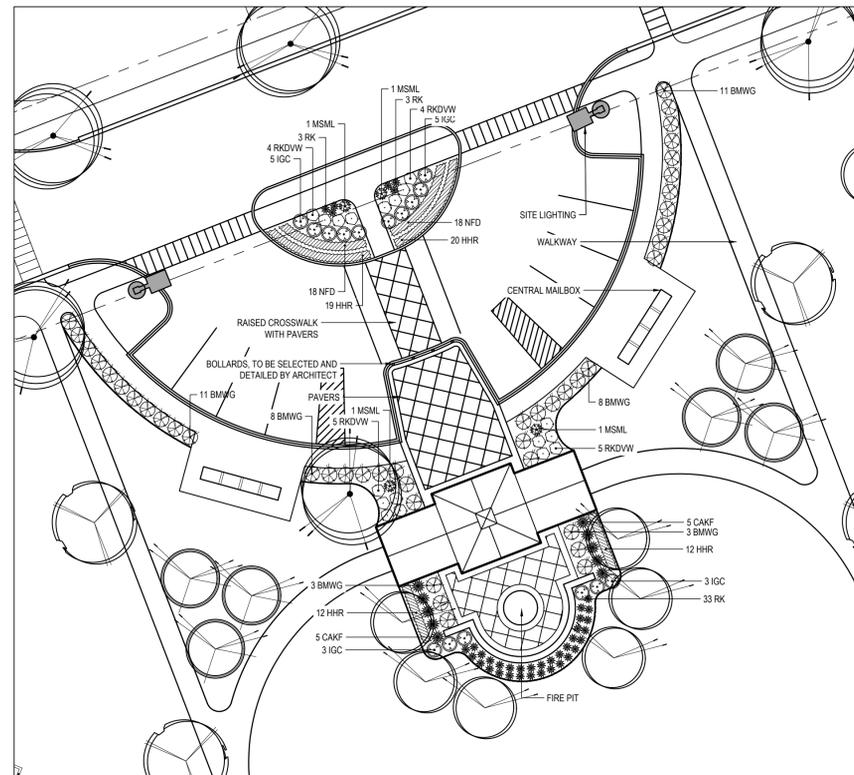
1 MAIN ENTRANCE PLAN ENLARGEMENT  
L-2 SCALE: 1" = 20'



3 MAIN ENTRANCE ELEVATION  
L-2 SCALE: 1" = 10'

LANDSCAPE SCHEDULE					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
EVERGREEN SHRUB(S)					
BMWG	44	BUXUS MICROPHYLLA 'WINTER GEM'	WINTER GEM BOXWOOD	30-36"	B-B
IGC	16	ILEX GLABRA 'COMPACTA'	DWARF INKBERRY HOLLY	24-30"	#5 CAN
RKDWW	18	RHOODODENDRON X KURUME 'DELAWARE VALLEY WHITE'	'DELAWARE VALLEY WHITE' AZALEA	18-24"	#3 CAN
SUBTOTAL:	78				
PERENNIAL(S)					
HHR	63	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	2 GAL.	CONTAINER
NFD	36	NEPETA X FASSENI 'DROPMORE'	DROPMORE CAT MINT	2 GAL.	CONTAINER
RK	39	ROSA 'KNOCKOUT'	'KNOCKOUT' ROSE	2 GAL.	CONTAINER
SUBTOTAL:	138				
ORNAMENTAL GRASS(S)					
CAKF	10	CALAMAGROSTIS ARUNDINACEA 'KARL FOERSTER'	FEATHER REED GRASS	2 GAL.	CONTAINER
MSML	4	MISCHANTHUS SINENSIS 'MORNING LIGHT'	SILVER VARIEGATED MAIDEN GRASS	2 GAL.	CONTAINER
SUBTOTAL:	14				

2 CENTRAL COMMON PLAN ENLARGEMENT  
L-2 SCALE: 1" = 20'



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,  
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FOR REGISTRY USE ONLY

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1/15/18		LDF

NORFOLK ZONING BOARD  
OF APPEALS

DATE APPROVED \_\_\_\_\_

DATE ENDORSED \_\_\_\_\_

ABBYVILLE COMMONS  
LANDSCAPE MASTER PLAN  
NORFOLK, MASSACHUSETTS  
FOR  
ABBYVILLE RESIDENTIAL, LLC.  
850 FRANKLIN STREET  
WRENTHAM, MASSACHUSETTS  
DATE: MARCH 15, 2017  
SCALE: 1" = 120'

M.J. MRVA

REGISTERED  
LANDSCAPE ARCHITECT

MASSACHUSETTS No. 1217  
RHODE ISLAND No. 419  
NEW YORK No. 002359  
NEW HAMPSHIRE No. 109  
CONNECTICUT No. 1359

LANDSCAPE ARCHITECT

BOHLER  
ENGINEERING

352 TURNPIKE ROAD  
SOUTHBOROUGH, MA  
Phone: (508) 480-9900

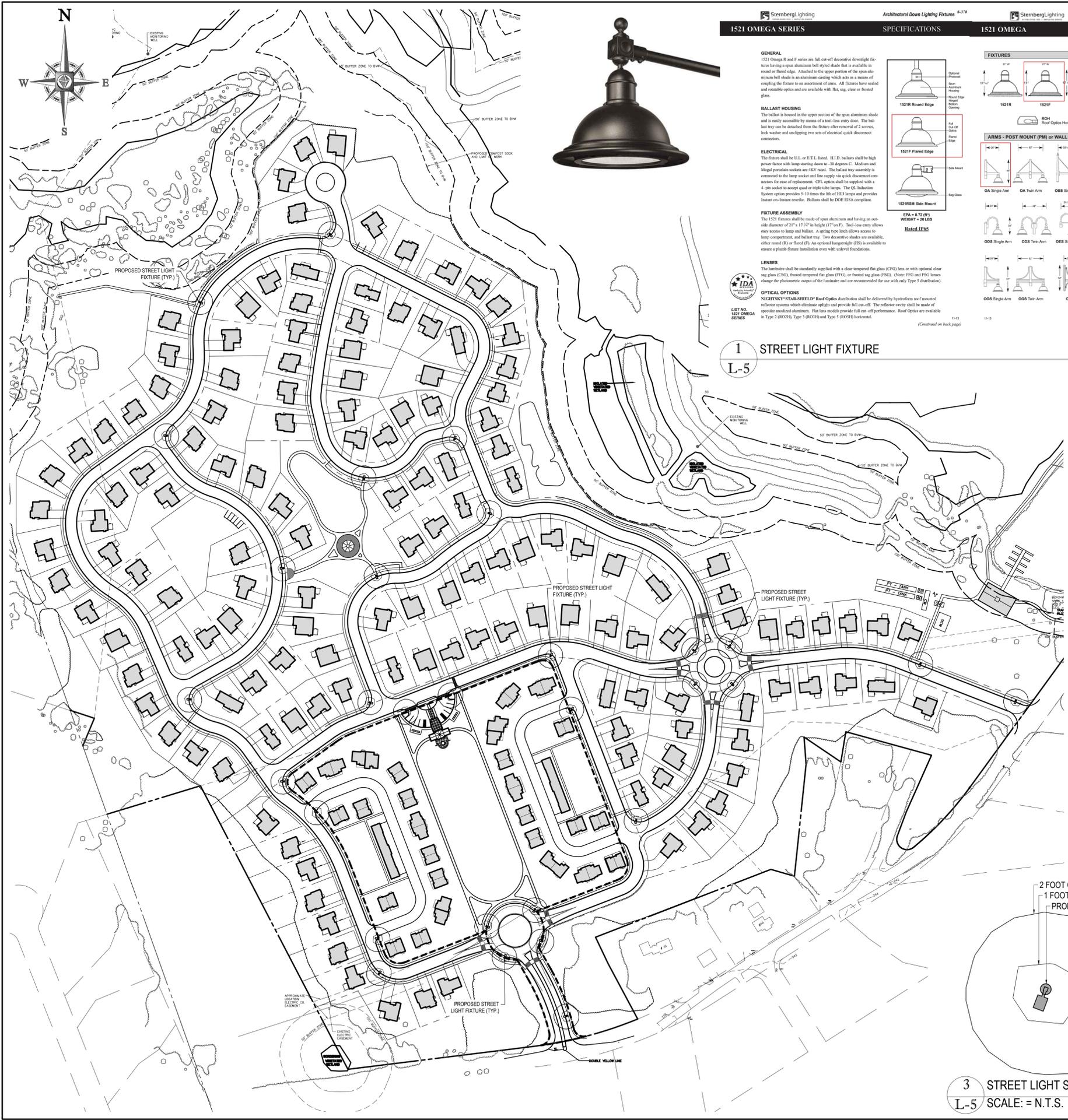
UNITED  
CONSULTANTS  
INC.

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

DATE	SEPT. 26, 2016
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SHEET	L-2 OF 7







**1521 OMEGA SERIES**

**GENERAL**  
1521 Omega R and F series are full cut-off decorative downlight fixtures having a spun aluminum bell-shaped shade that is available in round or flared edge. Attached to the upper portion of the spun aluminum bell shade is an aluminum casting which acts as a means of coupling the fixture to an assortment of arms. All fixtures have sealed and suitable optics and are available with flat, sag, clear or frosted glass.

**BALLAST HOUSING**  
The ballast is located in the upper section of the spun aluminum shade and is easily accessible by means of a tool-less entry door. The ballast may be removed from the fixture after removal of 2 screws, lock washer and unscrewing two sets of electrical quick disconnect connections.

**ELECTRICAL**  
The fixture shall be UL- or E.T.L. listed. E.L.D. ballasts shall be high power factor with lamp starting down to -30 degrees C. Medium and High pressure sodium are KEV rated. The ballast may be removed from the fixture by means of a tool-less entry door. The ballast may be removed from the fixture by means of a tool-less entry door. The ballast may be removed from the fixture by means of a tool-less entry door.

**FIXTURE ASSEMBLY**  
The 1521 fixture shall be made of spun aluminum and having an outside diameter of 21" x 17 1/2" in height (17" w/ 1/2" H). Tool-less entry allows easy access to lamp and ballast. A spring type latch allows access to lamp compartment, and ballast tray. Two decorative shades are available, either round (R) or flared (F). An optional hemisphere (HS) is available to ensure a flush fixture installation even with unlevel foundations.

**LENSES**  
The luminaire shall be standardly supplied with a clear tempered flat glass (CFG) lens or with optional clear sag glass (CSG), frosted tempered flat glass (FFG), or frosted sag glass (FSG). (Note: FFG and FSG lenses change the photometric output of the luminaire and are recommended for use with only Type 5 distribution).

**OPTICAL OPTIONS**  
"NIGHTTIME VIEW-SHIELD" Road Optics distribution shall be delivered by hydroformed roof mounted reflector systems which eliminate spillage and provide full cut-off. The reflector cavity shall be made of superior anodized aluminum. Flat lens models provide full cut-off performance. Road Optics are available in Type 2 (R0202), Type 3 (R0303) and Type 5 (R0505) beamcasts.

**FIXTURES**  
1521R Round Edge  
1521F Flared Edge  
1521RSM Side Mount

**LENSES**  
CFG Flat Glass  
CSG Sag Glass  
FFG Frosted Flat Glass  
FSG Frosted Sag Glass

**HANGING BRACKETS**  
B444 Stem Hung

**ARMS - POST MOUNT (PM) or WALL BRACKETS (WB)**  
OA Single Arm  
OA Twin Arm  
OBS Single Arm  
OBS Twin Arm  
OC Single Arm  
OC Twin Arm  
OOS Single Arm  
OOS Twin Arm  
OES Single Arm  
OES Twin Arm  
OFS Single Arm  
OFS Twin Arm  
OIS Single Arm  
OIS Twin Arm  
OIS Single Arm  
OIS Twin Arm

**IDA**  
LISTED  
1521 OMEGA SERIES

**1521 OMEGA SERIES**  
SPECIFICATIONS  
1521 OMEGA  
FIXTURES / ARMS PM - WB

**1521 OMEGA SERIES**  
EPA = 0.72 (R1)  
WEIGHT = 20 LBS  
Rated LP65

**1521**

(Continued on back page)

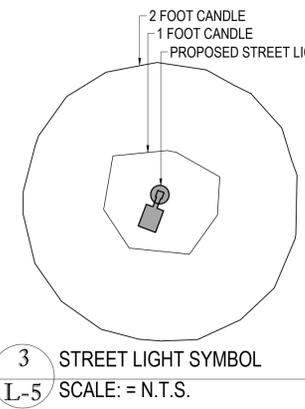
1 STREET LIGHT FIXTURE  
L-5

**LIVEX LIGHTING**  
EST. 1993

Product Specification Sheet

Model No: 2354-04  
Description: Monterey  
Finish: Black  
Glass: Clear  
Dimensions: 12.5" Dia. x 23.5" H  
Fitter: 3" 5" Dia.  
Lamping: 3 x 60W Candle Base  
Wire: Hard Wire  
Notes: Suitable for Wet Locations

2 RESIDENTIAL LAMP POST  
L-5 SCALE: 1/4" = 1'



3 STREET LIGHT SYMBOL  
L-5 SCALE: = N.T.S.

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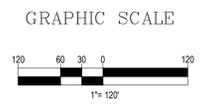
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**NORFOLK ZONING BOARD OF APPEALS**

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**M.J. MRVA**  
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MASSACHUSETTS No. 1217  
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508-384-6560 FAX 508-384-6566

DATE	SEPT. 26, 2016
SCALE	1" = 120'
PROJECT	UC987
SHEET	L-5 OF 7

THE PRESERVE AT ABBYVILLE & ABBYVILLE COMMONS  
LANDSCAPE MASTER PLAN  
NORFOLK, MASSACHUSETTS  
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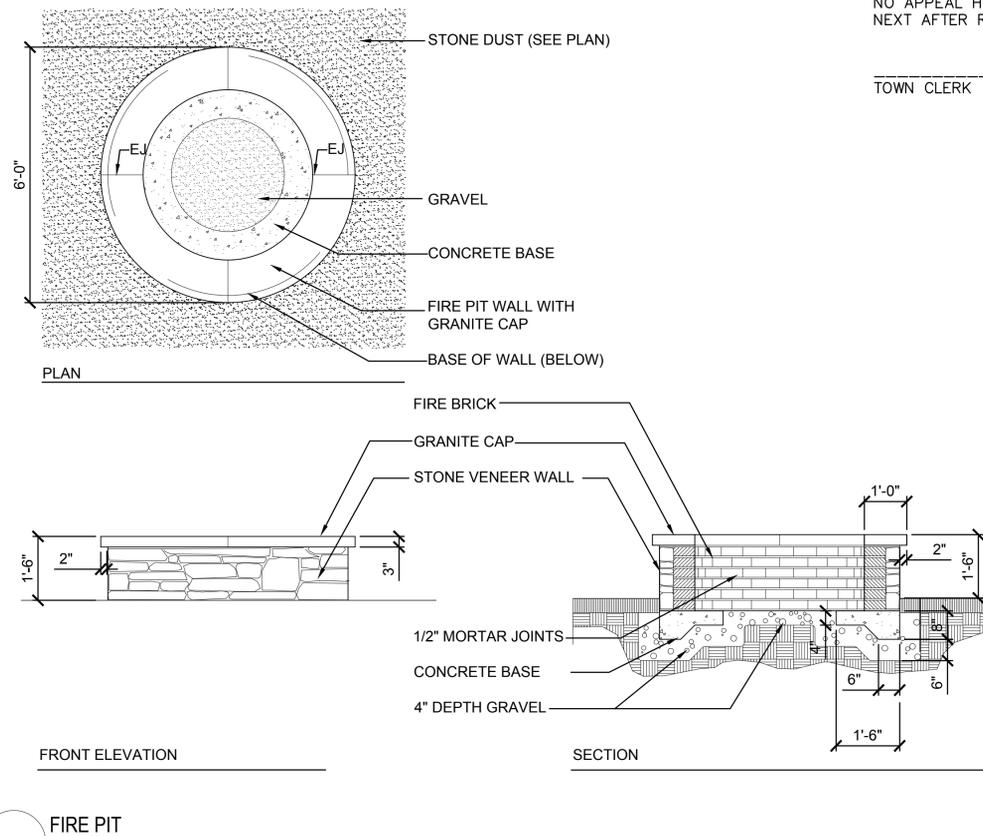
POTENTIAL PAVILION



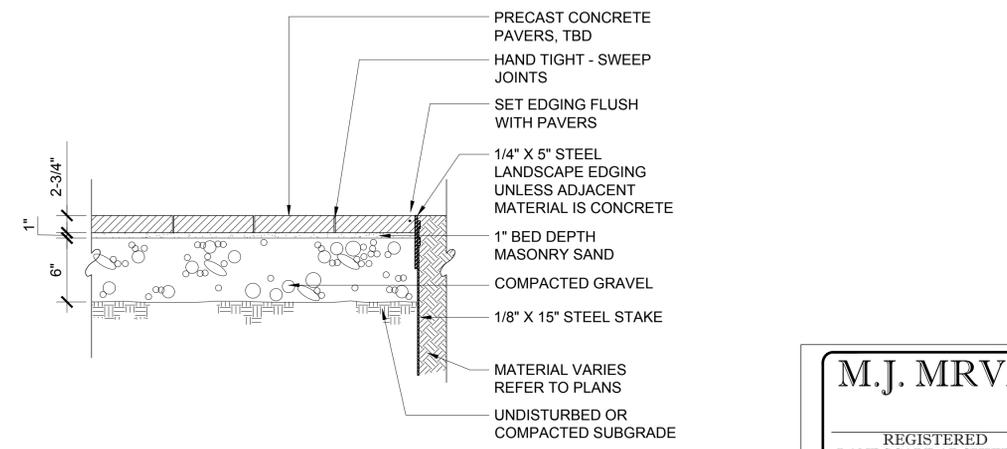
POTENTIAL BOAT HOUSE



POTENTIAL DOCK



FIRE PIT



PAVER SURFACE

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 NORFOLK, MASSACHUSETTS  
 FOR  
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 850 FRANKLIN STREET  
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DATE: SEPT. 26, 2016  
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 PROJECT: UC987  
 SHEET: L-6 OF 7

# LANDSCAPE SPECIFICATIONS

**1. 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 LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.

**2. MATERIALS**  
A. GENERAL - ALL LANDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.

B. TOPSOIL - NATURAL, FRABLE, 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 GLOBS.

C. LAWN - ALL DISTURBED 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.  
I. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.  
II. SOIL 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.

D. 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.

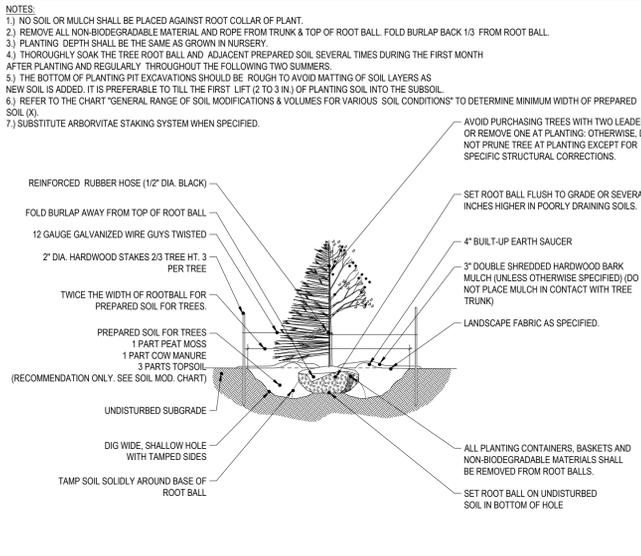
**E. FERTILIZER**  
I. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER.  
FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.  
II. FOR THE PURPOSE OF BIDDING, 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.

**F. PLANT MATERIAL**  
I. 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).  
II. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.  
III. 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.  
IV. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1/4", WHICH HAVE NOT BEEN COMPLETELY CALLEDUS, SHALL BE REJECTED.  
PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.  
V. 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.  
VI. 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.  
VII. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.  
VIII. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.

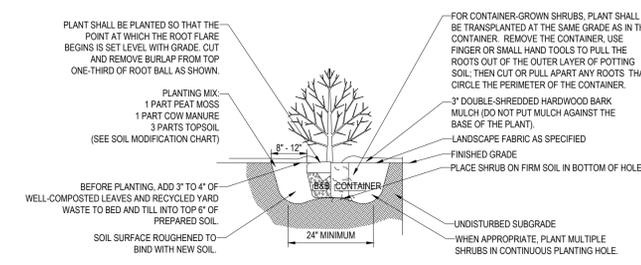
**3. GENERAL WORK PROCEDURES**  
A. CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.  
B. WASTE MATERIALS 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.  
**4. SITE PREPARATIONS**  
A. 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.  
B. 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.  
C. 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.  
**5. TREE PROTECTION**  
A. 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.  
B. 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.  
C. 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.  
D. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.  
**6. SOIL MODIFICATIONS**  
A. 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.  
B. 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.  
C. 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.  
I. 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.  
II. 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 NEED TO BE ADDED TO INCREASE DRAINAGE.  
III. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.  
**7. FINISHED GRADING**  
A. 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.  
B. 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"±).  
C. 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.  
D. 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.  
**8. TOPSOILING**  
A. 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.  
B. 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.  
C. 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 THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.

D. 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 A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY (SEE SPECIFICATION 6-A)):  
I. 20 POUNDS 'GRO-POWER' OR APPROVED SOIL CONDITIONER/FERTILIZER  
II. 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHM OR APPROVED NITROGEN FERTILIZER  
E. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.

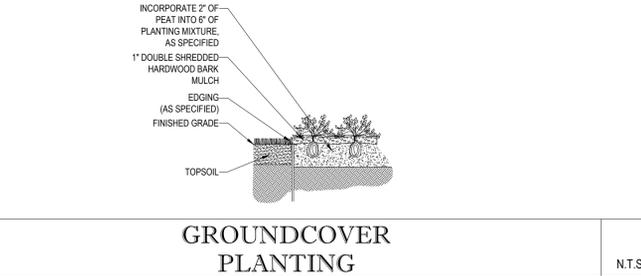
**9. PLANTING**  
A. INsofar THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS 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.  
B. 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.  
C. 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.  
D. 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.  
E. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING FITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.  
F. 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:  
I. PLANTS: MARCH 15 TO DECEMBER 15  
II. 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.  
G. 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:  
AZER RUBRUM PLATANUS X ACERIFOLIA  
BETULA VARIETIES POPULUS VARIETIES  
CARPINUS VARIETIES PRUNUS VARIETIES  
CRATAEGUS VARIETIES PYRUS VARIETIES  
KOELERUTERA QUERCUS VARIETIES  
LIQUIDAMBAR STYRACIFLUA TILIA TOMENTOSA  
LIRIODENDRON TULIPIFERA ZELKOVA VARIETIES  
H. 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:  
I. 1 PART PEAT MOSS  
II. 1 PART COMPOSTED COW MANURE BY VOLUME  
III. 3 PARTS TOPSOIL BY VOLUME  
IV. 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:  
A) 2 TABLETS PER 1 GALLON PLANT  
B) 3 TABLETS PER 5 GALLON PLANT  
C) 4 TABLETS PER 15 GALLON PLANT  
D) LARGER PLANTS: 2 TABLETS PER 1/2" CALIPER OF TRUNK  
I. FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.  
J. 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.  
K. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.  
L. 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.  
M. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS.  
N. 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.  
O. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.  
**10. TRANSPLANTING (WHEN REQUIRED)**  
A. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.  
B. 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.  
C. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.  
D. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.  
E. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.  
F. IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED PER KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.  
**11. WATERING**  
A. 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.  
B. 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.  
C. 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.  
**12. GUARANTEE**  
A. 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 INSTALLATION 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.  
B. 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.  
C. 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.  
D. 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.  
**13. CLEANUP**  
A. 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.  
B. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.  
**14. 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 MUST 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.



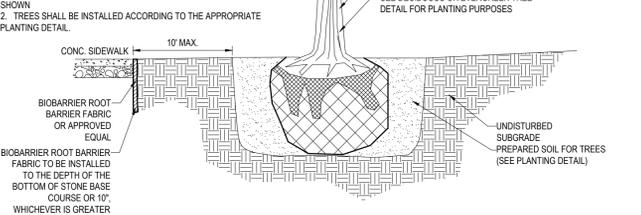
**TREE PLANTING DETAIL** N.T.S.



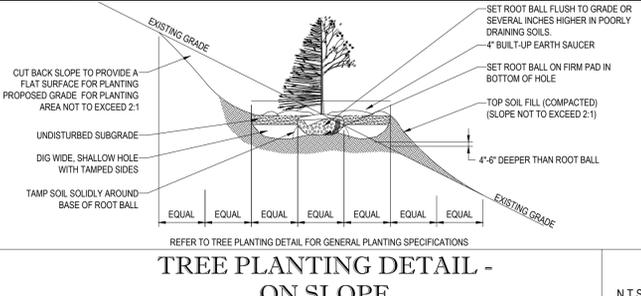
**SHRUB PLANTING DETAIL** N.T.S.



**GROUNDCOVER PLANTING** N.T.S.



**BIOBARRIER ROOT BARRIER DETAIL** N.T.S.



**TREE PLANTING DETAIL - ON SLOPE** N.T.S.

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 \_\_\_\_\_

I DECLARE THAT THIS PLAN HAS BEEN PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

FOR REGISTRY USE ONLY

DATE	FIELD BY:	INT.
2/14	FIELD BY:	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

DATE	REVISIONS	LD
1/15/18	REVISIONS	LD
DATE	DESCRIPTION	BY

**NORFOLK ZONING BOARD OF APPEALS**

DATE APPROVED \_\_\_\_\_

DATE ENDORSED \_\_\_\_\_

THE PRESERVE AT ABBYVILLE & ABBYVILLE COMMONS LANDSCAPE MASTER PLAN NORFOLK, MASSACHUSETTS FOR ABBYVILLE RESIDENTIAL, LLC. 850 FRANKLIN STREET WRENTHAM, MASSACHUSETTS DATE: MARCH 15, 2017 SCALE: 1" = 120'

**M.J. MRVA**

REGISTERED LANDSCAPE ARCHITECT

MASSACHUSETTS No. 1217  
RHODE ISLAND No. 419  
NEW YORK No. 002359  
NEW HAMPSHIRE No. 109  
CONNECTICUT No. 1359

LANDSCAPE ARCHITECT

**BOHLER ENGINEERING**

352 TURNPIKE ROAD  
SOUTHBOROUGH, MA  
Phone: (508) 480-9900

**UNITED CONSULTANTS INC.**

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

DATE
SEPT. 26, 2016
SCALE
N.T.S.
PROJECT
UC987
SHEET
L-7 OF 7

## HYDROSEED SPECIFICATIONS

1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2" DIAMETER.

2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

3. 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

4. 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.

## CONSERVATION SEED MIX SPECIFICATIONS

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), CREEPING RED FESCUE, (FESTUCA RUBRA), SWITCH GRASS, (Panicum VIRGATUM), PART-RIDGE PEA, (CHAMAECRISTA FASCICULATA), DEER TONGUE, (Panicum CLANDESTINUM), INDIAN GRASS, (SORGHASTRUM NITENS), OX EYE SUNFLOWER, (HELIOPSIS HELIANTHOIDES), COMMON MILKWEED, (ASCLEPIAS SYRACIA), SPOTTED JOE PYE WEEB, (EUPATORIUM MACULATUM), GRASS LEAVED GOLDENROD, (EUTHAMIA GRAMINIFOLIA), BLUE VERVAIN, (VERBENA HASTATA), NEW ENGLAND ASTER, (ASTER NOVAE-ANGLIAE), EARLY GOLDENROD, (SOLIDAGO JUNCEA).

## BASIN SEED MIX SPECIFICATIONS

WEBSITE: WWW.NEWP.COM

APPLICATION RATE: 1 LB / 1250 SQ. FT. (35 LBS / ACRE)

SPECIES: VIRGINIA WILD RYE, (ELYMUS VIRGINICUS), CREEPING RED FESCUE, (FESTUCA RUBRA), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM, (ANDROPOGON GERARDII), FOX SEDGE, (CAREX VULPIDROEA), SWITCH GRASS, (Panicum VIRGATUM), ROUGH BENTGRASS, (AGROSTIS SCABRA), NEW ENGLAND ASTER, (ASTER NOVAE-ANGLIAE), BONESET, (EUPATORIUM PERFOLATUM), GRASS LEAVED GOLDENROD, (EUTHAMIA GRAMINIFOLIA), GREEN BULRUSH, (SCIRPUS ATROVIRENS), BLUE VERVAIN, (VERBENA HASTATA), SOFT RUSS, (Juncus EFFUSUS), WOOL GRASS, (SCIRPUS CYPERINUS).