

LITTLETON ARTICLE XXX VILLAGE COMMON

CODE REFERENCE	REQUIRED	PROVIDE	NOTES
S.173-221 BUILDING STANDARDS: 2 BICYCLE SPACES PER BUILDING FRONTAGE TYPE INCLUDING ENTRY PLAZA, FRONT GARDEN, PORCH, COMMON LOBBY.	BYCYCLE PARKING SPACES	BYCYCLE PARKING SPACES ARE PROVIDED.	
S.173-222 DESIGN GUIDELINES (f): LANDSCAPE DESIGN IN THE FRONTAGE AREA SHOULD BE COORDINATED WITH THE ADJUTING PUBLIC, SIDEWALK TO PROVIDE ADDITIONAL PEDESTRIAN AMENITIES SUCH AS SEATING OPPORTUNITIES AND ADDITIONAL TREES.	PEDESTRIAN AMENITIES AND ADDITIONAL TREES	PEDESTRIAN BENCHES AND STREET TREES ARE PROVIDED.	
S.173-222 DESIGN GUIDELINES (g): SITE LANDSCAPING SHOULD PRIORITIZE THE USE OF MATERIALS THAT ARE COMMON TO LITTLETON'S AGRARIAN CULTURAL HISTORY, SUCH AS SHORT STONE WALLS, PERVIOUS GROUND COVERS, AND WOOD DECKING.	MATERIALS COMMON TO LITTLETON'S AGRARIAN HISTORY	SHORT STONE WALLS, PERVIOUS GROUND COVERS AND WOOD DECK STAMPED CONC. ARE PROVIDED.	
S.173-222 DESIGN GUIDELINES (h): SITE LANDSCAPING SHOULD PRIORITIZE THE USE OF NATIVE PLANT SPECIES AND XERISCAPE.	NATIVE SPECIES AND XERISCAPE	NATIVE SPECIES THAT ARE DROUGHT TOLERANT ARE PROVIDED.	
S.173-222 DESIGN GUIDELINES (i): RAIN GARDENS AND BIOSWALES SHOULD BE INSTALLED TO INFILTRATE RUNOFF FROM PARKING LOTS, THOROUGHFARES, ENTRY PLAZAS, DINING PATIOS, AND OTHER IMPERVIOUS SURFACES.	RAIN GARDENS AND BIOSWALES	A DRAINAGE FILTRATION AREA IS PROVIDED AT THE REAR OF THE SITE PLANTED WITH HARDY NATIVES.	
S.173-222 DESIGN GUIDELINES (j): WHERE VEGETATIVE SOLUTIONS ARE NOT FEASIBLE, POROUS CONCRETE OR POROUS ASPHALT FOR INFILTRATION.	POROUS CONCRETE OR POROUS ASPHALT FOR INFILTRATION	PERMEABLE PAVERS ARE PROVIDED FOR PATIO AREAS.	
S.173-224 SITE STANDARDS (e): PARKING LOT DESIGN. PARKING LOTS MUST BE SCREENED ALONG ANY SIDE OR REAR PROPERTY LINE ABUTTING ANY LOT IN THE RESIDENCE DISTRICT BY A FOUR-FOOT WIDE LANDSCAPE AREA WITH DENSELY PLANTED SHRUBS AND A FENCE AT LEAST FOUR FEET IN HEIGHT.	PARKING LOTS SCREEDNED ABUTTING RESIDENCE DISTRICT	6' TALL PRIVACY FENCE AND EVERGREEN LANDSCAPE IS PROVIDED ALONG ROBINSON ROAD AND REAR PROPERTY LINE FOR SCREENING.	
S.173-224 SITE STANDARDS (i): SCREENING. MECHANICAL EQUIPMENT TO BE SCREENED BY EVERGREEN LANDSCAPE EQUAL TO OR TALLER THAN THE HEIGHT OF THE EQUIPMENT.	MECHANICAL EQUIPMENT SCREENED BY LANDSCAPE.	7-8' HT. EVERGREEN ARBVORVITAE ARE PROVIDED FOR SCREENING.	

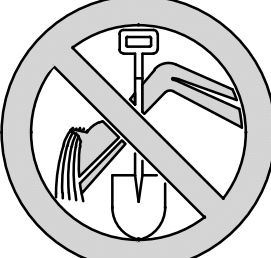
LEGEND

DECIDUOUS TREE	
EVERGREEN TREE	
FLOWERING TREE	
SHRUBS	
MULCH BED	
PERENNIALS/GROUNDCOVER	
WILDFLOWER SEED MIX	
EROSION CONTROL SEED MIX	

NOTES:

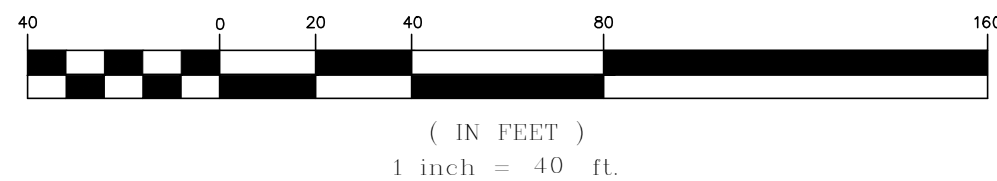
- EXISTING CONDITIONS SHOWN HEREON ARE TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS, 25 ROBINSON ROAD, 265, 277, 287 & 289 GREAT ROAD", DATED JANUARY 8, 2019, PREPARED BY ALLEN & MAJOR ASSOCIATES, INC.
- THE PURPOSE OF THIS DRAWING IS TO SHOW THE OVERALL LANDSCAPE FEATURES FOR A COMMERCIAL DEVELOPMENT. SEE SHEETS L-102 AND L-103 FOR DETAILED LANDSCAPE PLANS AND SHEETS L-501 AND L-502 FOR LANDSCAPE DETAILS.
- THE CONTRACTOR SHALL CONTACT DIGSAFE AT 811 PRIOR TO ANY EXCAVATION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ANY STRUCTURAL RETAINING WALLS (WALLS WITH AN EXPOSED FACE OF GREATER THAN 4'). DESIGN SHALL BE BY A REGISTERED STRUCTURAL ENGINEER AND SHALL BE STAMPED ACCORDINGLY.
- THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.

DIG SAFE



BEFORE YOU DIG
CALL 811 OR
1-888-DIG-SAFE
1-888-344-7233

GRAPHIC SCALE



REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

3.	01.23.2023	CHANGES PER COMMENTS
2.	12.21.2022	CHANGES PER COMMENTS
1.	11.14.2022	CHANGES PER COMMENTS

APPLICANT/OWNER:

NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:

25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO.	2371-04	DATE:	09-07-2022
SCALE:	1" = 40'	DWG. NAME:	C2371-04.dwg
DESIGNED BY:	BCD	CHECKED BY:	BDJ

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN DIGITAL FORMAT. CLIENTS' REPRESENTATIVE OR CONSULTANTS MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS FOR HIS/HER INFORMATION AND/OR SPECIFIC USE ON THIS PROJECT. DUE TO THE POTENTIAL THAT THE PROVIDED INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE DIGITAL MEDIA. PRINTED REPRESENTATIONS OR PORTABLE DOCUMENT FORMAT OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE:

OVERALL
LANDSCAPE PLAN

SHEET No.

L-101

Copyright©2022 Allen & Major Associates, Inc.
All Rights Reserved.

PLANTING PALETTE

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS
DECIDUOUS SHADE TREES						
AC	8	AMELANCHIER CANADENSIS	SERVICEBERRY	8-10' HT.	AS SHOWN	B&B-MULTISTEM
AS	7	ACER SACCHARUM 'COMMEMORATION'	COMMEMORATION SUGAR MAPLE	3-3.5" CAL.	AS SHOWN	B&B
ASM	2	ACER SACCHARINUM	SILVER MAPLE	3-3.5" CAL.	AS SHOWN	B&B
AR	8	ACER RUBRUM	RED MAPLE	3-3.5" CAL.	AS SHOWN	B&B
BN	11	BETULA NIGRA	RIVERBIRCH	12-14' HT.	AS SHOWN	B&B
CC	5	CERCIS CANADENSIS	CERCIS CANADENSIS	2.5-3" CAL.	AS SHOWN	B&B
GT	4	NYSSA SYLVATICA 'WILDFIRE'	WILDFIRE TUPELO	2.5-3" CAL.	AS SHOWN	B&B
CO	1	COTINUS OBOVATUS	SMOKE BUSH	10-12' HT.	AS SHOWN	B&B - SPECIMEN
LT	3	LIRIODENDRON TULIIFERA	TULIP TREE	3-3.5" CAL.	AS SHOWN	B&B
QP	5	QUERCUS PALUSTRIS	PIN OAK	3-3.5" CAL.	AS SHOWN	B&B
TA	7	TILIA AMERICANA 'REDMOND'	REDMOND LINDEN	3-3.5" CAL.	AS SHOWN	B&B

EVERGREEN TREES						
AB	31	ABIES FRASERI	FRASER FIR	8-10' HT.	AS SHOWN	B&B
CT	14	CHAMAECYPARIS THYOIDES	ATLANTIC WHITE CEDAR	6'-7' HT.	AS SHOWN	B&B
JV	9	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	8'-10' HT.	AS SHOWN	B&B
PG	40	PICEA GLAUCA	WHITE SPRUCE	7-8' HT.	AS SHOWN	POT
PS	25	PINUS STROBUS	WHITE PINE	7-8' HT.	AS SHOWN	POT
TO	52	THUJA OCCIDENTALIS 'WINTERGREEN'	WINTERGREEN ARBORVITAE	7-8' HT.	AS SHOWN	POT

SHRUBS/ GRASSES						
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS
PV	87	PANICUM VIRGATUM 'NORTHWIND'	NORTHWIND SWITCH GRASS	#3	AS SHOWN	POT
HPV	4	HYDRANGEA PETEOLARIS	CLIMBING HYDRANGEA VINE	#5 STAKED	AS SHOWN	POT
HY	41	HYDRANGEA ARBORESCENS 'ANNABELLE'	ANNABELLE HYDRANGEA	#5	AS SHOWN	POT
IG	117	ILEX GLABRA COMPACTA	COMPACT INKBERRY	2'-2.5' HT.	AS SHOWN	POT
IV	44	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	#5	AS SHOWN	B&B- 1 MALE POLLINATOR FOR EACH 7 PLANTS
MP	12	MYRICA PENNSYLVANICA	BAYBERRY	2'-2.5' HT.	AS SHOWN	B&B
SS	94	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION'	STANDING OVATION LITTLE BLUESTEM GRASS	#3	AS SHOWN	B&B
VP	22	VIBURNUM OPULUS VAR. AMERICANUM 'COMPACTUM'	COMPACT AMERICAN CRANBERRY VIBURNUM	4-5' HT.	AS SHOWN	B&B

PERENNIALS						
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS
AM	67	ALLIUM 'MILLENNIUM'	MILLENNIUM ONION	#2	24" O.C.	STAGGERED
AH	49	AMSONIA HUBRICHTII	THREADLEAF BLUESTAR	#2	24" O.C.	STAGGERED
BA	46	BAPTISIA TINCTORIA	YELLOW WILD INDIGO	#2	24" O.C.	STAGGERED
CZ	100	COREOPSIS 'ZAGREB'	ZAGREB COREOPSIS	#2	24" O.C.	STAGGERED
EP	74	ECHINACEA PURPUREA	PURPLE CONEFLOWER	#2	24" O.C.	STAGGERED
MD	80	MONARDA D. 'JACOB CLINE'	JACOB CLINE BEE BALM	#2	24" O.C.	STAGGERED
MF	29	MONARDA FISTULOSA	WILD BERGAMOT	#2	24" O.C.	STAGGERED
PA	23	POLYSTICHUM ACROSTYCHOIDES	CHRISTMAS FERN	#2	24" O.C.	STAGGERED
RF	75	RUDBECKIA FULGIDA 'FULGIDA'	NATIVE BLACK EYED SUSAN	#2	24" O.C.	STAGGERED
SH	119	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPS EED GRASS	#3	AS SHOWN	B&B
TC	44	TIARELLA C. 'ELIZABETH OLIVER'	ELIZABETH OLIVER FOAMFLOWER	#2	24" O.C.	STAGGERED

SEED MIX NOTES:

1. SEE L-502 FOR NATIVE SEED MIXES

DIG SAFE



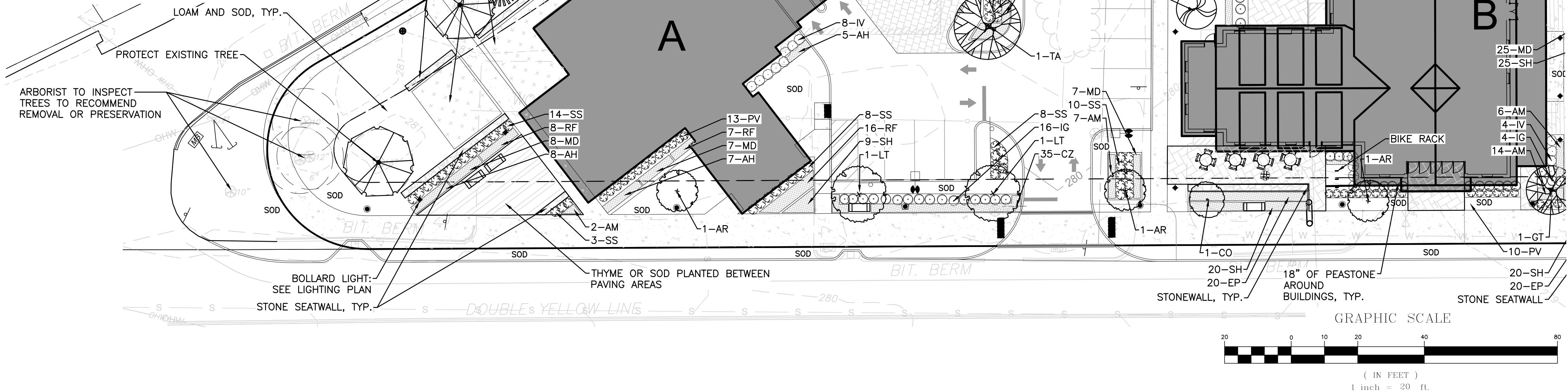
BEFORE YOU DIG
CALL 811 OR
1-888-DIG-SAFE
1-888-344-7233

LEGEND

DECIDUOUS TREE	
EVERGREEN TREE	
FLOWERING TREE	
SHRUBS	
MULCH BED	
PERENNIALS/GROUNDCOVER	
WILDFLOWER SEED MIX	
EROSION CONTROL SEED MIX	

NOTES:

- EXISTING CONDITIONS SHOWN HEREON ARE TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS, 25 ROBINSON ROAD, 265, 277, 287 & 289 GREAT ROAD", DATED JANUARY 8, 2019, PREPARED BY ALLEN & MAJOR ASSOCIATES, INC.
- THE CONTRACTOR SHALL CONTACT DIGSAFE AT 811 PRIOR TO ANY EXCAVATION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ANY STRUCTURAL RETAINING WALLS (WALLS WITH AN EXPOSED FACE OF GREATER THAN 4"). DESIGN SHALL BE BY A REGISTERED STRUCTURAL ENGINEER AND SHALL BE STAMPED ACCORDINGLY.
- THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.



REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

3.	01.23.2023	CHANGES PER COMMENTS
2.	12.21.2022	CHANGES PER COMMENTS
1.	11.14.2022	CHANGES PER COMMENTS

REV	DATE	DESCRIPTION
-----	------	-------------

APPLICANT/OWNER:
NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:
25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO. 2371-04 DATE: 09-07-2022

SCALE: 1" = 20' DWG. NAME: C2371-04.dwg

DESIGNED BY: BCD CHECKED BY: BDJ

PREPARED BY:



ALLEN & MAJOR
ASSOCIATES, INC.

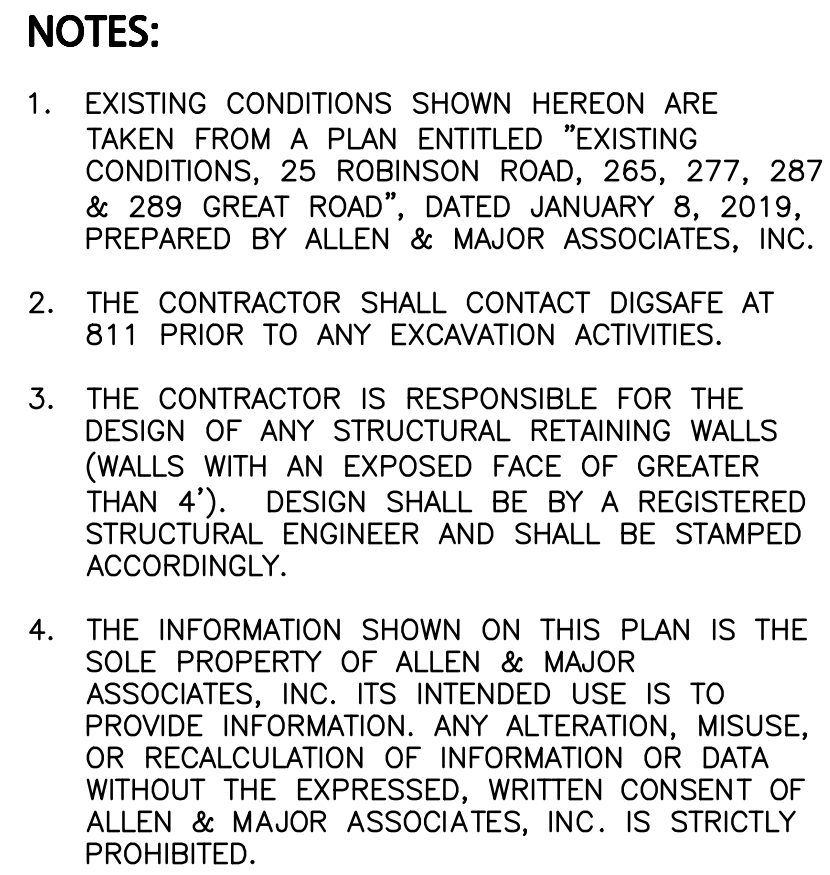
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN DIGITAL FORMAT. CLIENTS/CLIENTS REPRESENTATIVE OR CONSULTANTS MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS FOR HIS/HER INFORMATION AND/OR SPECIFIC USE ON THIS PROJECT. DUE TO THE POTENTIAL THAT THE PROVIDED INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENTS AUTHORITY ON THE DIGITAL MEDIA. PRINTED REPRESENTATIONS OR PORTABLE DOCUMENT FORMAT OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE: LANDSCAPE PLAN SHEET No. L-102

Copyright ©2022 Allen & Major Associates, Inc.
All Rights Reserved.



REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

3.	01.23.2023	CHANGES PER COMMENTS
2.	12.21.2022	CHANGES PER COMMENTS
1.	11.14.2022	CHANGES PER COMMENTS
REV	DATE	DESCRIPTION

REV	DATE	DESCRIPTION
APPLICANT\OWNER:		

NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:
25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO.	2371-04	DATE:	09-07-2022
-------------	---------	-------	------------

SCALE:	1" = 20'	DWG. NAME:	C-2371-04.dwg

DESIGNED BY:	BCD	CHECKED BY:	BD
--------------	-----	-------------	----



ALLEN & MAJOR
ASSOCIATES, INC.

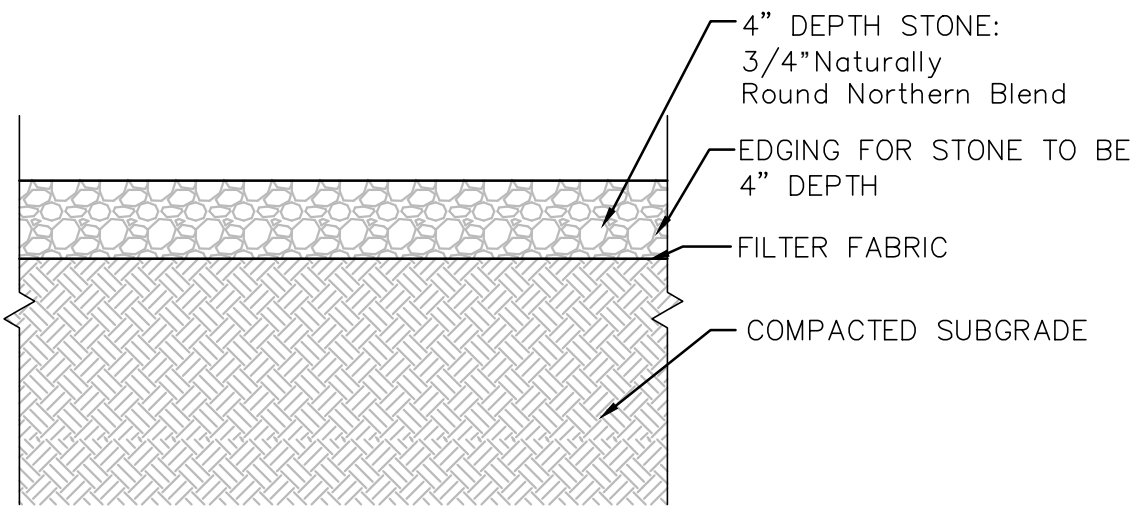
civil engineering ♦ land surveying
environmental consulting ♦ landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA ♦ LAKEVILLE, MA ♦ MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN DIGITAL FORMAT. CLIENT/Clients REPRESENTATIVE OR CONSULTANTS MAY PROVIDE COPIES OF DRAWINGS AND SPECIFICATIONS FOR HIS/HER INFORMATION AND/OR SPECIFIC USE ON THIS PROJECT. DUE TO THE POTENTIAL THAT THE PROVIDED INFORMATION MAY BE MODIFIED/REMOVED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE DIGITAL MEDIA. PRINTED REPRESENTATIONS OR PORTABLE DOCUMENT FORMAT OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE:	SHEET No.
LANDSCAPE PLAN	L-103

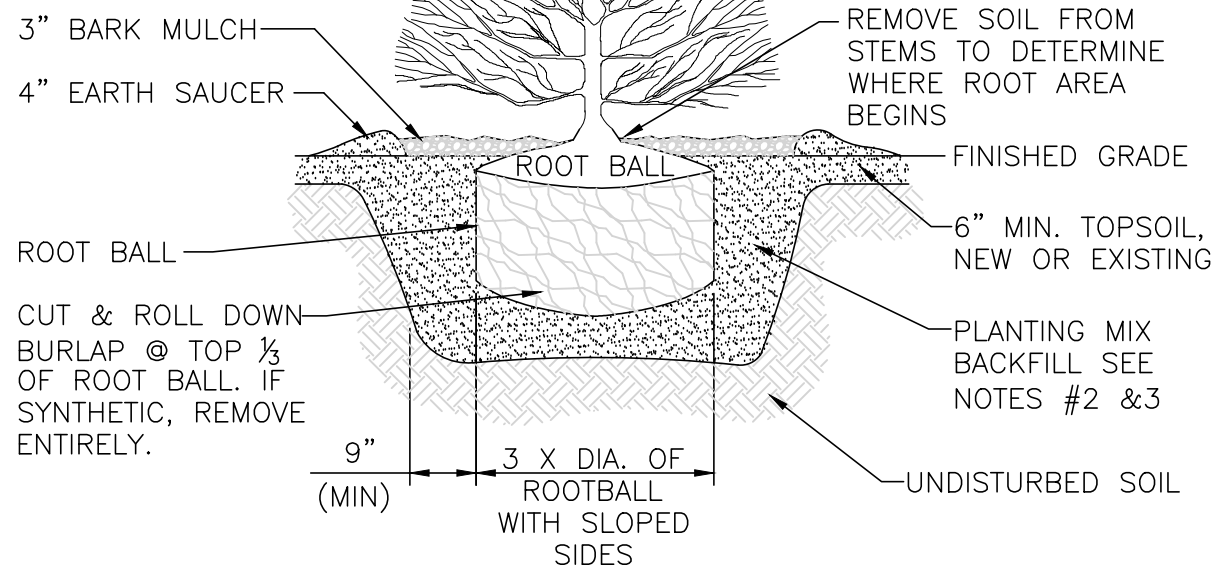
R:\PROJECTS\2371-04\CIVIL\DRAWINGS\CURRENT\G-2371-04_LANDSCAPING.DWG



LANDSCAPE STONE AROUND BUILDING DETAIL
NOT TO SCALE

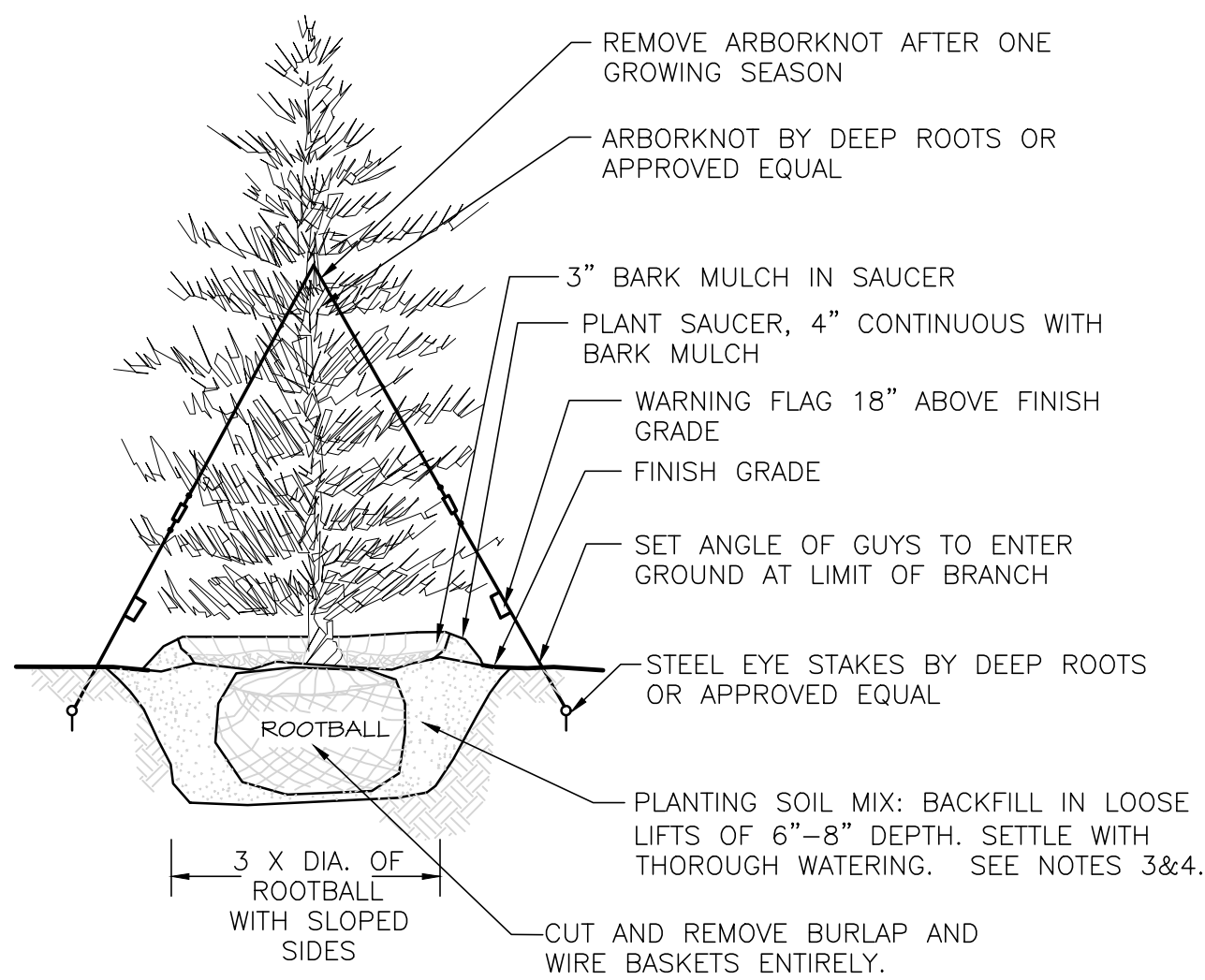
1

- NOTES:
1. ALL SHRUBS SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING. SET SHRUB 1"-2" ABOVE FINISH GRADE.
 2. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
 3. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.
 4. SHRUB BEDS TO HAVE 24" MIN. OF CONTINUOUS PLANTING SOIL.



SHRUB PLANTING DETAIL
NOT TO SCALE

2

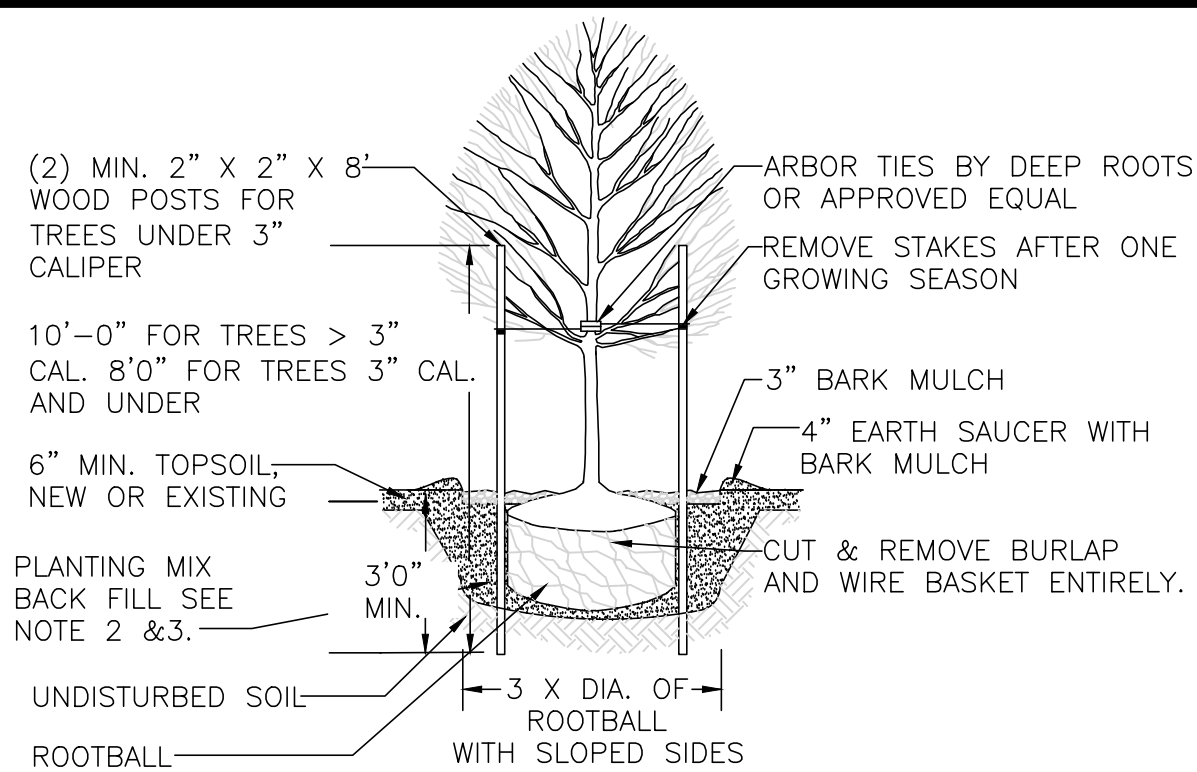


EVERGREEN TREE DETAIL
NOT TO SCALE

3

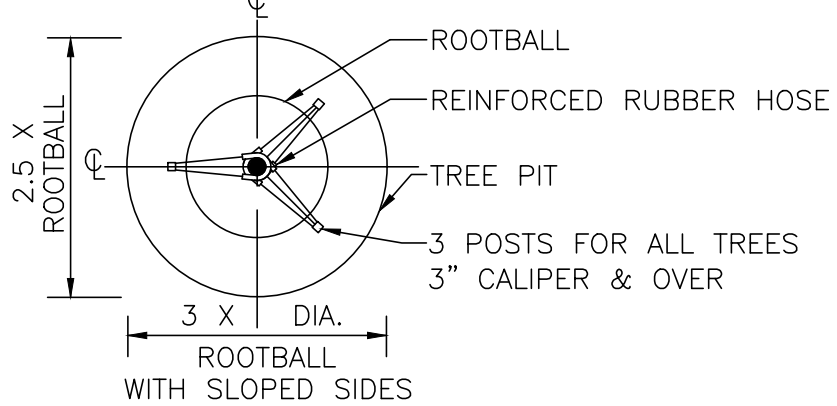
NOTES:

1. TREES SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE TO NURSERY OR FIELD GRADE. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM TRUNK FLARE OF TREE TO DETERMINE ACTUAL TOP OF ROOTBALL AREA.
2. INSTALL THREE GUYS PER TREE; EQUALLY SPACED AROUND BALL.
3. ATTACH GUYS AT 2/3 HEIGHT OF TREE.
4. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
5. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.



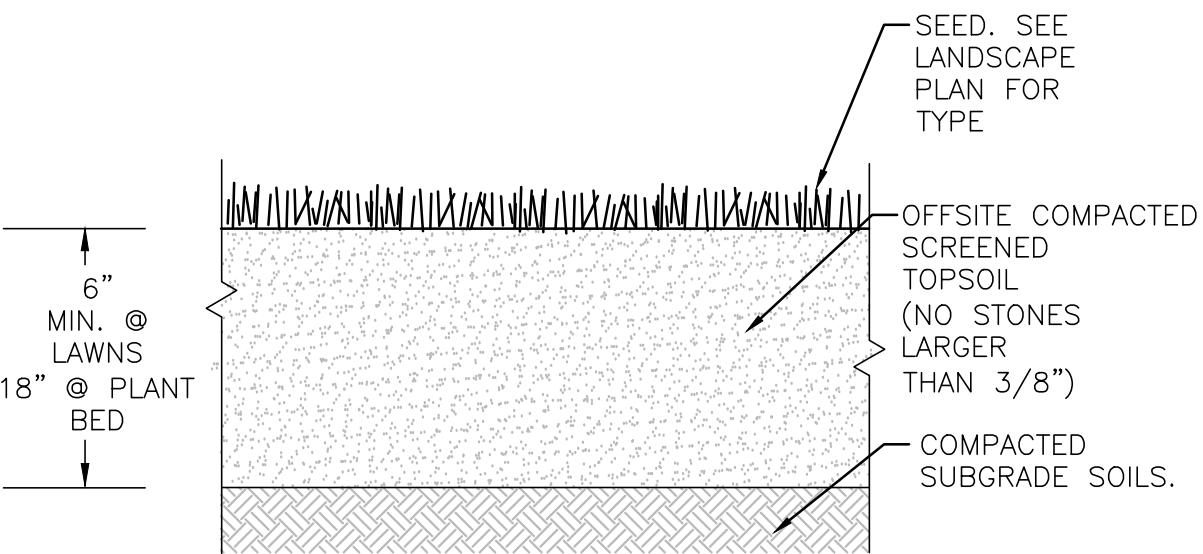
NOTES:

1. ALL TREES SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM TRUNK FLARE OF TREE TO DETERMINE ACTUAL ROOTBALL AREA.
2. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
3. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.



DECIDUOUS TREE DETAIL
NOT TO SCALE

4



TEXTURE CLASS	% OF TOTAL WEIGHT
SAND	45% - 65%
SILT	15% - 35%
CLAY	5% - 20%

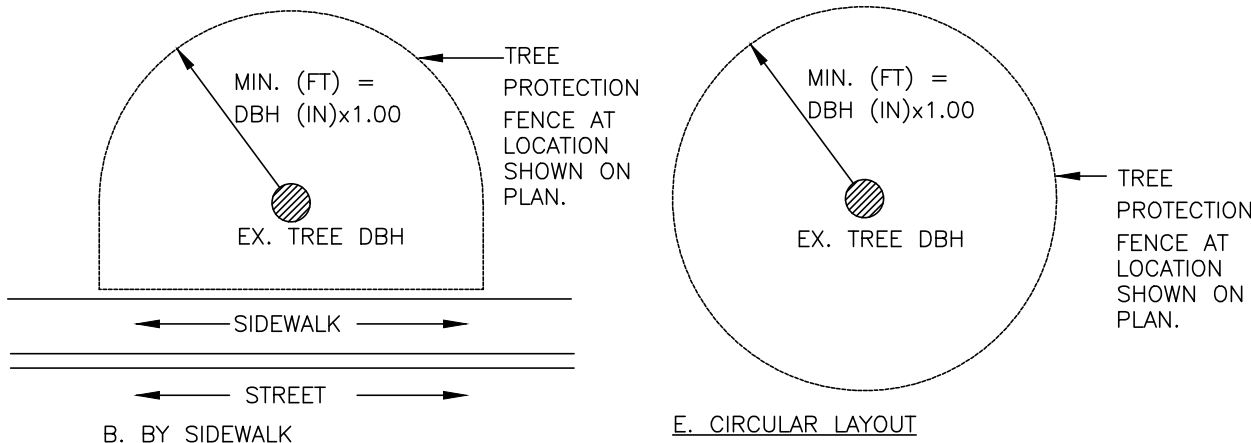
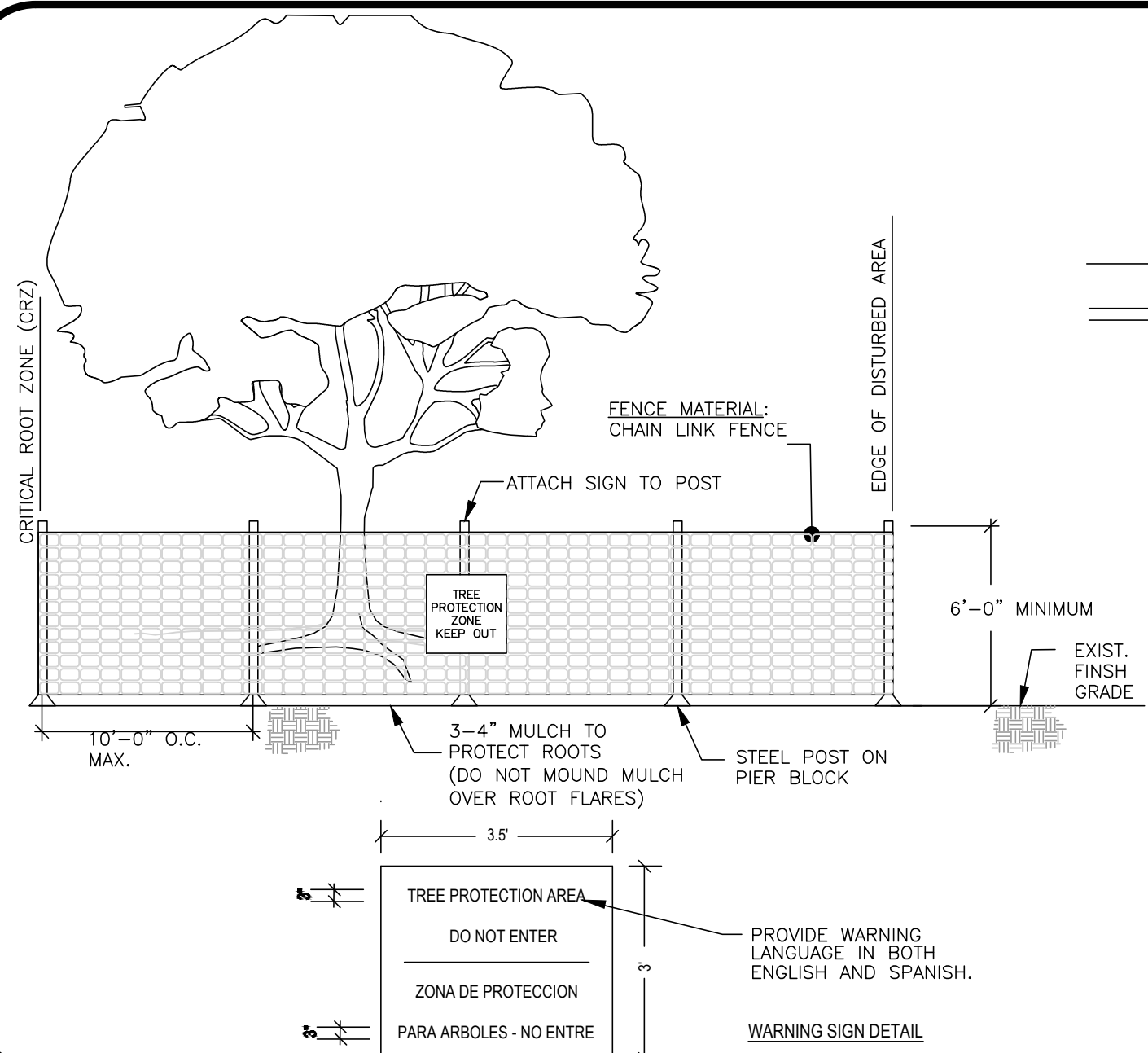
SIEVE	% PASSING
3/8"	100
NO. 4	85-100
NO. 40	60-85
NO. 100	38-60
NO. 200	10-35
20 um	LESS THAN 5%

TOPSOIL FOR LAWN, TREES, SHRUBS, & PERENNIALS
NOT TO SCALE

5

NOTES:

1. TOP OF LOAM (TOPSOIL) IS FINISH GRADE.
2. ALL TOPSOIL (BOTH ONSITE AND OFFSITE SOURCES) SHALL BE COMPOSED OF A NATURAL, FERTILE, FRIABLE SOIL TYPICAL OF CULTIVATED TOPSOILS OF THE LOCALITY. OFFSITE SOIL SHALL BE SUITABLE FOR THE GERMINATION OF SEEDS AND SUPPORT OF VEGETATIVE GROWTH, WITH ADDITIVES, IF REQUIRED, TO ACHIEVE PARTICLE DISTRIBUTION AND ORGANIC CONTENT BELOW. TOPSOIL SHALL BE TAKEN FROM A WELL-DRAINED, ARIABLE SITE, FREE OF SUBSOIL, LARGE STONES, EARTH CLODS, STICKS, STUMPS, CLAY LUMPS, ROOTS, OTHER OBJECTIONABLE, EXTRANEIOUS MATTER OR DEBRIS NOR CONTAIN TOXIC SUBSTANCES.
3. THE CONTRACTOR SHALL PROVIDE THE OWNER / LANDSCAPE ARCHITECT WITH TOPSOIL TEST RESULTS (RECOMMEND UMASS AMHERST SOIL TESTING LAB) FOR APPROVAL PRIOR TO OBTAINING AND PLACING THE SOIL. IF ANY TOPSOIL IS PURCHASED OR PLACED PRIOR TO APPROVAL BY OWNER / LANDSCAPE ARCHITECT, IT IS AT CONTRACTORS RISK, AND IT CAN BE REMOVED AT NO ADDITIONAL COST TO THE OWNER. IF THE PLANTING SOIL (BOTH ONSITE AND OFFSITE SOURCES) DOES NOT FALL WITHIN THE REQUIRED SIEVE ANALYSIS, TEXTURAL CLASS, ORGANIC CONTENT, OR PH RANGE, IT SHALL BE ADJUSTED TO MEET THE SPECIFICATIONS THROUGH THE ADDITION OF SAND, COMPOST, LIMESTONE, OR ALUMINUM SULFATE TO BRING IT WITHIN THE SPECIFIED LIMITS AT NO ADDITIONAL COST TO THE OWNER.
4. TOPSOIL SHALL HAVE A PH VALUE BETWEEN 5.5 AND 6.5. TOPSOIL SHALL CONTAIN 8% ORGANIC MATTER OF TOTAL DRY WEIGHT AND SHALL CONFORM TO THE FOLLOWING GRADATION AND TEXTURE CLASS ABOVE.



NOTES:

1. FENCE SHALL BE INSTALLED PRIOR TO THE START OF ANY DEMOLITION, CLEARING, GRADING OR ANY OTHER DEMOLITION OR CONSTRUCTION ACTIVITY.
2. PLACE TREE PROTECTION FENCING AT THE OUTER LIMITS OF THE CRITICAL ROOT ZONE (CRZ). THE CRZ IS ESTABLISHED AT A DISTANCE OF 1.0' IN RADIUS MEASURED PER 1" OF TREE TRUNK DIAMETER AT BREAST HEIGHT (DBH - MEASURED AT 4.5' ABOVE EXISTING GRADE). INSTALL THE TREE PROTECTION FENCING RADIALLY ALONG THE CRZ AS SHOWN IN THE ELEVATION AND PLAN VIEW DRAWING. FOR EXAMPLE: A 15" DBH TREE WOULD HAVE A 15.0' TREE PROTECTION FENCE RADIUS INSTALLED AROUND THE TREE.
3. CONSTRUCTION FENCE TO BE 6' HIGH MIN. CHAIN LINK ON PIER BLOCK ONLY. AVOID STAKES TO MINIMIZE ROOT DAMAGE.
4. IF GROUPS OF TREES ARE TO BE PROTECTED, EXTEND FENCE AROUND PERIMETER TO CONFORM TO MINIMUM DIMENSIONS FOR TREE TRUNKS AND DRIFLINE.
5. SEE SITE PREPARATION PLAN FOR TREES TO SAVE & PROTECT.
6. SPACE TREE PROTECTION ZONE SIGNS A MINIMUM OF ONE EVERY TREE. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 3.5' X 3' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE. THE SIGN MUST BE WEATHER-PROOF AND CONTAIN THE FOLLOWING LANGUAGE IN BOTH ENGLISH & SPANISH: "TREE PROTECTION AREA, DO NOT ENTER."

TEMP. CONST. FENCE / TREE PROTECTION
NOT TO SCALE

6

REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
2.	12.21.2022	CHANGES PER COMMENTS
1.	11.14.2022	CHANGES PER COMMENTS

APPLICANT/OWNER:

NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:

25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO.	2371-04	DATE:	09-07-2022
SCALE:	AS SHOWN	DWG. NAME:	C2371-04.dwg
DESIGNED BY:	BCD	CHECKED BY:	BDJ

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN DIGITAL FORMAT. CLIENTS/CLIENTS REPRESENTATIVE OR CONSULTANTS MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS FOR HIS/HER INFORMATION AND/OR SPECIFIC USE ON THIS PROJECT. DUE TO THE POTENTIAL THAT THE PROVIDED INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENTS AUTHORITY ON THE DIGITAL MEDIA. PRINTED REPRESENTATIONS OR PORTABLE DOCUMENT FORMAT OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE:	SHEET No.
LANDSCAPE DETAILS	L-501

Copyright©2022 Allen & Major Associates, Inc.
All Rights Reserved.

ADDITIONAL SEED MIX SPECIFICATIONS FOR
DETENTION BASINS, AND ALL SLOPE AREAS: (AS NOTED ON THE PLAN)
SEED MIXES:

NEW ENGLAND WETLAND PLANTS
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM
NEW ENGLAND CONSERVATION/WILDLIFE MIX

BOTANICAL NAME	COMMON NAME	WETLAND INDICATOR
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	FACW
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
ANDROPOGON GERARDII	BIG BLUESTEM	FAC
FESTUCA RUBRA	RED FESCUE	FACU
SORGHASTRUM NUTANS	INDIAN GRASS	UPL
PANICUM VIRGATUM	SWITCH GRASS	FAC
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	FACU
DESMODIUM PANICULATUM	PANICLEDLEAF TICK TREFOIL	
VERBENA HASTATA	BLUE VERVAIN	FACW
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	NI
RUDEBECKIA HIRTA	BLACK EYED SUSAN	FACU
HELENIUM AUTUMNALE	COMMON SNEEZEWEED	FACW+
ASTER PILOSUS (SYMPHYOTRICHUM PILOSUM) HEATH ASTER		UPL
SOLIDAGO JUNCEA	EARLY GOLDENROD	
AGROSTIS PERENNANS	UPLAND BENTGRASS	FACU

THE NEW ENGLAND CONSERVATION/WILDLIFE MIX PROVIDES A PERMANENT COVER OF GRASSES, WILDFLOWERS, AND LEGUMES FOR BOTH GOOD EROSION CONTROL AND WILDLIFE HABITAT VALUE. THE MIX IS DESIGNED TO BE A NO MAINTENANCE SEEDING, AND IS APPROPRIATE FOR CUT AND FILL SLOPES, DETENTION BASIN SIDE SLOPES, AND DISTURBED AREAS ADJACENT TO COMMERCIAL AND RESIDENTIAL PROJECTS.

PRICE PER LB \$36.50 MIN. QUANTITY 2 LBS. TOTAL: \$73.00
APPLY: 25 LBS/ACRE :1750 SQ FT/LB
EROSION CONTROL BLANKET FOR SLOPES SEE LANDSCAPE NOTES

SEED MIXES:

NEW ENGLAND WETLAND PLANTS
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION
BASINS AND MOIST SITES

BOTANICAL NAME	COMMON NAME	INDICATOR
ELYMUS RIPARIUS	RIVERBANK WILD RYE	FACW
FESTUCA RUBRA	RED FESCUE	FACU
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
PANICUM VIRGATUM	SWITCH GRASS	FAC
ANDROPOGON GERARDII	BIG BLUESTEM	FAC
VERBENA HASTATA	BLUE VERVAIN	FACW
AGROSTIS PERENNANS	UPLAND BENTGRASS	FACU
BIDENS CERNUA	NODDING BUR MARIGOLD	DBL
EUPATORIUM FISTULOSUM	HOLLOW-STEM JOE PYE WEED	FACW
EUPATORIUM PERFOOLIATUM	BONESET	FACW
ASTER NOVAE-ANGLAE	NEW ENGLAND ASTER	FACW
SCIRPUS CYPERINUS	WOOL GRASS	FACW
JUNCUS EFFUSUS	SOFT RUSH	FACW+

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DISTURBED TO COLONIZE GENERALLY MOIST, RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN APPROPRIATE SEED MIX FOR ECOLOGICALLY SENSITIVE RESTORATIONS THAT REQUIRE STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT HOLD STANDING WATER. MANY OF THE PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING. THE MIX MAY BE APPLIED BY HAND, BY MECHANICAL SPREADER, OR BY HYDROSEEDER. AFTER SOWING, LIGHTLY RAKE, ROLL, OR CULTPACK TO INSURE GOOD SEED-TO-SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE SUMMER SEEDING. LATE FALL AND WINTER DORMANT SEEDING REQUIRES AN INCREASE IN THE APPLICATION RATE. A LIGHT MULCHING OF CLEAN, WEED-FREE STRAW IS RECOMMENDED
PRICE PER LB \$34.00 MIN. QUANTITY 3 LBS. TOTAL: \$102.00 APPLY: 35 LBS/ACRE :1250 SQ FT/LB

EROSION CONTROL BLANKET FOR SLOPES SEE LANDSCAPE NOTES

SEED MIXES:

NEW ENGLAND WETLAND PLANTS
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM
SHOWY NEW ENGLAND WILDFLOWER MIX

SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	FACU
SORGHASTRUM NUTANS	INDIAN GRASS	UPL
FESTUCA RUBRA	RED FESCUE	FACU
ELYMUS CANADENSIS	CANADA WILD RYE	FACU+
ELYMUS RIPARIUS	RIVERBANK WILD RYE	FACW
HELIOPSIS HELIANTHOIDES	OX EYE SUNFLOWER	UPL
COREOPSIS LANCEOLATA	LANCE LEAVED COREOPSIS	FACU
RUDEBECKIA HIRTA	BLACK EYED SUSAN	FACU
LIATRIS SPICATA SPIKED GAYFEATHER/MARSH BLAZING STAR		FAC+
ASCLEPIAS SYRIACA	COMMON MILKWEED	FACU
VERNONIA NOVEBORACENSIS	NEW YORK IRONWEED	FACW+
ASTER NOVAE-ANGLAE (SYMPHYOTRICHUM NOVAE-ANGLIA NEW ENGLAND ASTER FACW		
EUPATORIUM PURPUREUM (EUTROCHIUM MACULATUM) PURPLE JOE PYE WEED		FAC
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	NI
SOLIDAGO JUNCEA	EARLY GOLDENROD	
EUPATORIUM PERFOOLIATUM	BONESET	FACW

THE NEW ENGLAND SHOWY WILDFLOWER MIX INCLUDES A SELECTION OF NATIVE WILDFLOWERS AND GRASSES THAT WILL MATURE INTO A COLORFUL AND VIBRANT NATIVE MEADOW. IT IS APPROPRIATE SEED MIX FOR ROADSIDES, COMMERCIAL LANDSCAPING, PARKS, GOLF COURSES, AND INDUSTRIAL SITES. ALWAYS APPLY ON CLEAN BARE SOIL. THE MIX MAY BE APPLIED BY MECHANICAL SPREADER, OR ON SMALL SITES IT CAN BE SPREAD BY HAND. LIGHTLY RAKE, OR ROLL, TO ENSURE PROPER SEED TO SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE FALL DORMANT SEEDING. LATE SPRING AND EARLY SUMMER SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. IF CONDITIONS ARE DRIER THAN USUAL, WATERING MAY BE REQUIRED. LATE FALL AND WINTER DORMANT SEEDING REQUIRES AN INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE. PREPARATION OF A CLEAN WEED FREE SEED BED IS NECESSARY FOR OPTIMAL RESULTS.
PRICE PER LB. \$86.00 MIN. QUANTITY 1 LBS. TOTAL: \$86.00 APPLY: 23 LBS/ACRE :1900 SQ FT/LB

LANDSCAPE NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LITTLETON, MA.
- PLANTING PLAN IS DIAGRAMMATIC IN NATURE. FINAL PLACEMENT OF PLANTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, ANY PERMITTING AGENCIES, AND "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS IN ADVANCE OF ANY WORK THAT WILL REQUIRE EXCAVATION. CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF NAY CONFLICTS IN WRITING.
- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA, ANY TREES NOTED AS "SEAL OR SELECTED SPECIMEN" SHALL BE TAGGED AND SEALED BY THE LANDSCAPE ARCHITECT.
- ALL TREES SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN ON PLANS SHALL GOVERN OVER PLANT LIST.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE GUIDELINES ESTABLISHED BY THE STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE. ANY PLANT MATERIALS WHICH DIE WITHIN THE ONE YEAR PLANT GUARANTEE PERIOD WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNERS. OWNERS TO COORDINATE DIRECTLY WITH THE LANDSCAPE CONTRACTOR FOR REPLACEMENT PLANTINGS.
- ALL DISTURBED AREAS NOT OTHERWISE NOTED SHALL RECEIVE 6" OF SUITABLE LOAM & SEED.
- LAWNS OR SEED MIX WITH 3:1 OR STEEPER (GREATER) SLOPES SHALL BE PROTECTED WITH JUTE EROSION CONTROL NETTING.
- ANY FALL TRANSPLANTING HAZARD PLANTS SHALL BE DUG IN THE SPRING AND STORED FOR FALL PLANTING.
- TREES SHALL HAVE A MINIMUM CALIPER AS INDICATED ON THE PLANTING SCHEDULE TAKEN ONE FOOT ABOVE THE ROOT CROWN.
- ALL PLANT BEDS AND TREE SAUCERS TO RECEIVE 3" OF PINE BARK MULCH. GROUND COVER AREAS SHALL RECEIVE 1" OF PINE BARK MULCH
- ALL DECIDUOUS TREES ADJACENT TO WALKWAYS AND ROADWAYS SHALL HAVE A BRANCHING PATTERN TO ALLOW FOR A MINIMUM OF 7' OF CLEARANCE BETWEEN THE GROUND AND THE LOWEST BRANCH.
- ALL TREE STAKES SHALL BE STAINED DARK BROWN.
- CONTRACTOR RESPONSIBLE FOR WATERING, MAINTENANCE, FERTILIZING, AND RESEEDING OF LAWN BARE SPOTS UNTIL A UNIFORM STAND OF VEGETATION IS ESTABLISHED AND ACCEPTED.
- ALL PARKING ISLANDS PLANTED WITH SHRUBS OR PERENNIALS SHALL HAVE 24" OF TOPSOIL. FINISH GRADE SHALL BE EQUAL TO THE TOP OF CURB.
- SOIL SAMPLES, TESTS, AND SHOP DRAWINGS SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT OR THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- A MINIMUM 18" WIDE BARRIER OF 1" GRAY OR TAN PEASTONE SHALL BE INSTALLED IN ALL PLANT BEDS WHICH ABUT THE BUILDINGS. NO MULCH IS ALLOWED WITHIN 18" OF ALL BUILDINGS PER THE EXECUTIVE OFFICE OF PUBLIC SAFETY AND SECURITY DEPARTMENT OF FIRE SERVICES REGULATION (527 CMR 17.00). INSTALL 4" DEEP OF PEASTONE WITH MIRAFI WEED FABRIC BENEATH AND STEEL EDGING BETWEEN THE PEASTONE AND ADJACENT MULCH BED. PROVIDE SHOP DRAWINGS TO O&M FOR APPROVAL PRIOR TO PURCHASE OF PEASTONE, MIRAFI WEED FABIRC & STEEL EDGING.
- ALL PROPOSED LANDSCAPE AREAS INCLUDING MOWED LAWNS, TREES, SHRUB BEDS, PERENNIALS, AND ANNUALS SHALL BE PROVIDED WITH WATER EFFICIENT UNDERGROUND IRRIGATION. DESIGN AND INSTALLATION OF IRRIGATION SYSTEM TO BE PERFORMED BY AN APPROVED IRRIGATION DESIGN BUILD CONTRACTOR OR BY AN APPROVED EQUAL, TO BE DETERMINED BY THE OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT. IRRIGATION SYSTEM IS TO BE DESIGNED FOR EFFICIENT WATER USAGE INCLUDING: USE OF DRIP IRRIGATION FOR TREES, SHRUBS AND PERENNIALS. IRRIGATION SYSTEM WITH HEAD-TO-HEAD COVERAGE, A CENTRAL SHUT-OFF VALVE, SEPARATE ZONES FOR EACH TYPE OF BEDDING AREA BASED ON WATERING NEEDS, AND A RAIN SENSOR TO SHUT OFF IRRIGATION DURING RAIN EVENTS.
- PRIOR TO LAYING TOPSOIL, ALL SUBSOIL (BELOW PROPOSED TOPSOIL) TO BE TILLED TO A DEPTH OF AT LEAST 18" TO REMOVE CONSTRUCTION COMPACTION AND ALLOW FOR PROPER DRAINAGE OF TOPSOILS.
- SEEDING OF DETENTION AREAS & OTHER SLOPE AREAS SHALL OCCUR IN THE DRY & AFTER SLOPES ARE COMPACTED. IT IS IMPORTANT, THAT THE DETENTION BASIN BE SEEDED AT THE BEGINNING OF THE PROJECT & PRIOR TO ANY DRAINAGE BEING DIRECTED TOWARDS THE BASIN. THE SEED AT DETENTION AREAS & OTHER SLOPED ARES WILL NEED A MIN. OF 6 MONTHS TO INITIALLY ESTABLISH PRIOR TO THE DETENTION BASIN BEING UTILIZED SO THAT THERE IS NOT EROSION & SLOPE FAILURE. SEED MIXES AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, 820 WEST ST., AMHERST, MA, 413-548-8000. LIGHTLY RAKE SOIL TO ENSURE GOOD SEED-TO-SOIL CONTACT. SEE SEED MIX DETAIL NOTES.

ALL SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SEEDING OF BARE SPOTS. AT ALL SLOPED AREAS CONTRACTOR TO INSTALL COCONUT FIBER JUTE MESH NETTING ON ALL SLOPES 3:1 AND OVER. HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS AT NO ADDITIONAL COST TO OWNER & UNTIL SLOPES ARE FULLY STABLE. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.

AFTER SEEDING, ALL AREAS TO BE LIGHTLY MULCHED WITH WEED FREE STRAW & CONTINUALLY WATERED EVERY DAY UNTIL SEED IS ESTABLISHED & APPROVED BY A&M LANDSCAPE ARCHITECT (USE NO HAY) SO THAT SEED IS KEPT MOIST. FOR SPREADING OF THE SEED WITH DRY DETENTION BASINS, WATER LEVELS MAY BE LOWERED IN THE DETENTION AREAS BY RELYING ON DRY SEASON AND OR DRY SPELLS; OR MAY BE ACCOMPLISHED THROUGH THE USE OF DEWATERING METHODS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ANY DEWATERING METHODS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. WATER FROM ANY DEWATERING OPERATION SHALL BE TREATED TO REDUCE TOTAL SUSPENDED SOLIDS AND BE IN COMPLIANCE WITH STATE AND FEDERAL STANDARDS.

SPREAD THE NEW ENGLAND SEED MIXES AT AREAS SHOWN ON THE PLAN. SEE SEED MIX DETAIL NOTES. SEED MIXES AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, 820 WEST ST., AMHERST, MA, 413-548-8000. LIGHTLY RAKE SOIL TO ENSURE GOOD SEED-TO-SOIL CONTACT.

LOAM AND SEEDING NOTES:

CONTRACTOR SHALL SEED ALL DISTURBED AREAS NOT NOTED TO RECEIVE OTHER MATERIALS, AND AT AREAS SHOWN ON THE PLAN PER SPECIFICATIONS BELOW

SCIENTIFIC NAME	COMMON NAME	PROPORTION	PERCENT	PERCENT
		BY WEIGHT	PURITY	GERMINATION
FESTUCA RUBRA "RUBRA"	CREeping RED FESCUE	37%	95%	90%
PAO PRAENTENSIS "BARON"	BARON KENTUCKY BLUEGRASS	40%	85%	90%
LOLIUM PERENNE "PALMER"	PALMER PERENNIAL RYEGRASS	15%	95%	90%
FESTUCA RUBRA COMMUTATA WILMA	WILMA CHEWINGS	8%	95%	80%

- SEED TO BE SPREAD AT MINIMUM RATE OF 5 LBS. PER 1000 SQ. FT.
- SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RESEEDING OF BARE SPOTS. IF UNABLE TO SEED WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER, HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER
- COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. LIME TO BE SPREAD AT THE RATE OF 100 POUNDS PER 1000 SQ. FT OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIZE SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.
- LAWN AREAS TO BE SEEDED BY SOWING EVENLY WITH AN APPROVED MECHANICAL SEEDER AT THE RATE OF TEN POUNDS PER 1000 SQUARE FEET.
- CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RESEEDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED.

LOAM AND SODDING:

CONTRACTOR SHALL SOD AREAS NOTED ON THE PLANS OR AT ANY AREA DISTURBED BY CONSTRUCTION NOT NOTED TO BE ANOTHER MATERIAL.

SOD IS TO BE A BLEND OF FOUR TO FIVE CURRENT AND IMPROVED HYBRID BLUEGRASS AND FESCUE MIXES APPROPRIATE FOR BOTH SEMI-SHADED AND AREAS OF SUN.

HYBRIDS MAY INCLUDE: BLACKSTONE KENTUCKY BLUEGRASS, AWARD KENTUCKY BLUEGRASS, CHALLENGER KENTUCKY BLUEGRASS, BLACKBURG II KENTUCKY BLUEGRASS OR COMPARABLE AND EQUAL BLUEGRASS HYBRIDS.

- PROVIDE A&M A SHOP DRAWING FOR APPROVAL PRIOR TO ORDERING OF SOD.
- SOD SHALL BE HIGH QUALITY, NURSERY GROWN ON CULTIVATED MINERAL AGRICULTURAL SOILS. SOD SHALL BE MOIST, AND MACHINE CUT AT A UNIFORM SOIL THICKNESS OF AT LEAST 5/8" AT TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL INCLUDE TOP GROWTH AND THATCH. SOD SHALL BE FREE OF DISEASES, WEEDS, BARE SPOTS, OR INSECTS.
- SODDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SODDING OF BARE SPOTS. IF UNABLE TO SOD WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER, HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SODDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.
- COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. LIME TO BE SPREAD AT THE RATE OF 100 POUNDS PER 1000 SQ. FT OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIZE SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.
- CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RE-SODDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED. IF PROPOSED IRRIGATION SYSTEM IS NOT OPERATIONAL, LANDSCAPE CONTRACTOR RESPONSIBLE TO WATER WITH TEMPORARY IRRIGATION OR WATER TRUCKS UNTIL IRRIGATION SYSTEM IS OPERATIONAL AT NO ADDITIONAL COST.

REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

2.	12.21.2022	CHANGES PER COMMENTS
1.	11.14.2022	CHANGES PER COMMENTS
REV	DATE	DESCRIPTION

APPLICANT/OWNER:

NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:

25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO.	2371-04	DATE:	09-07-2022
SCALE:	AS SHOWN	DWG. NAME:	C2371-04.dwg
DESIGNED BY:	BCD	CHECKED BY:	BDJ

PREPARED BY:



ALLEN & MAJOR
ASSOCIATES, INC.

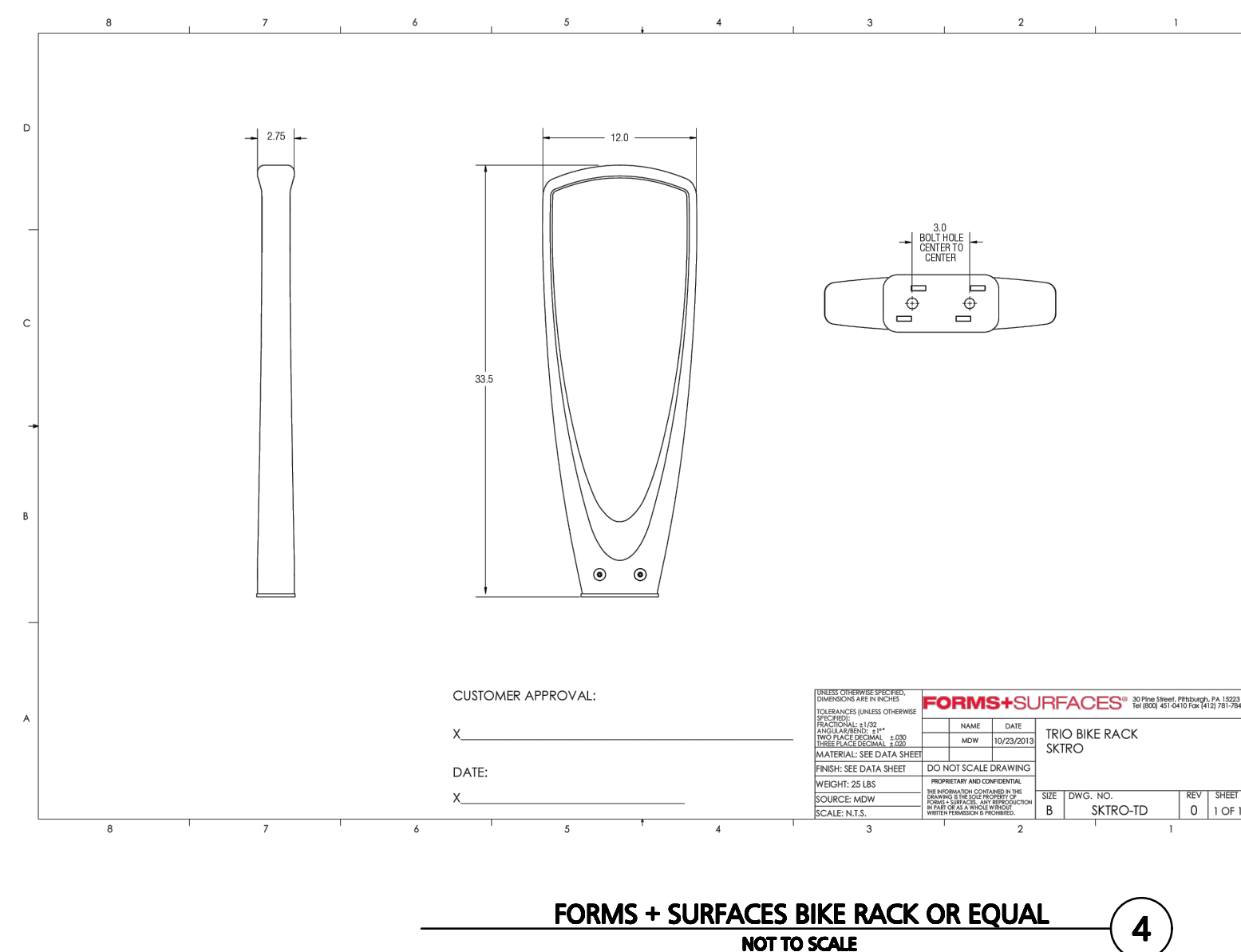
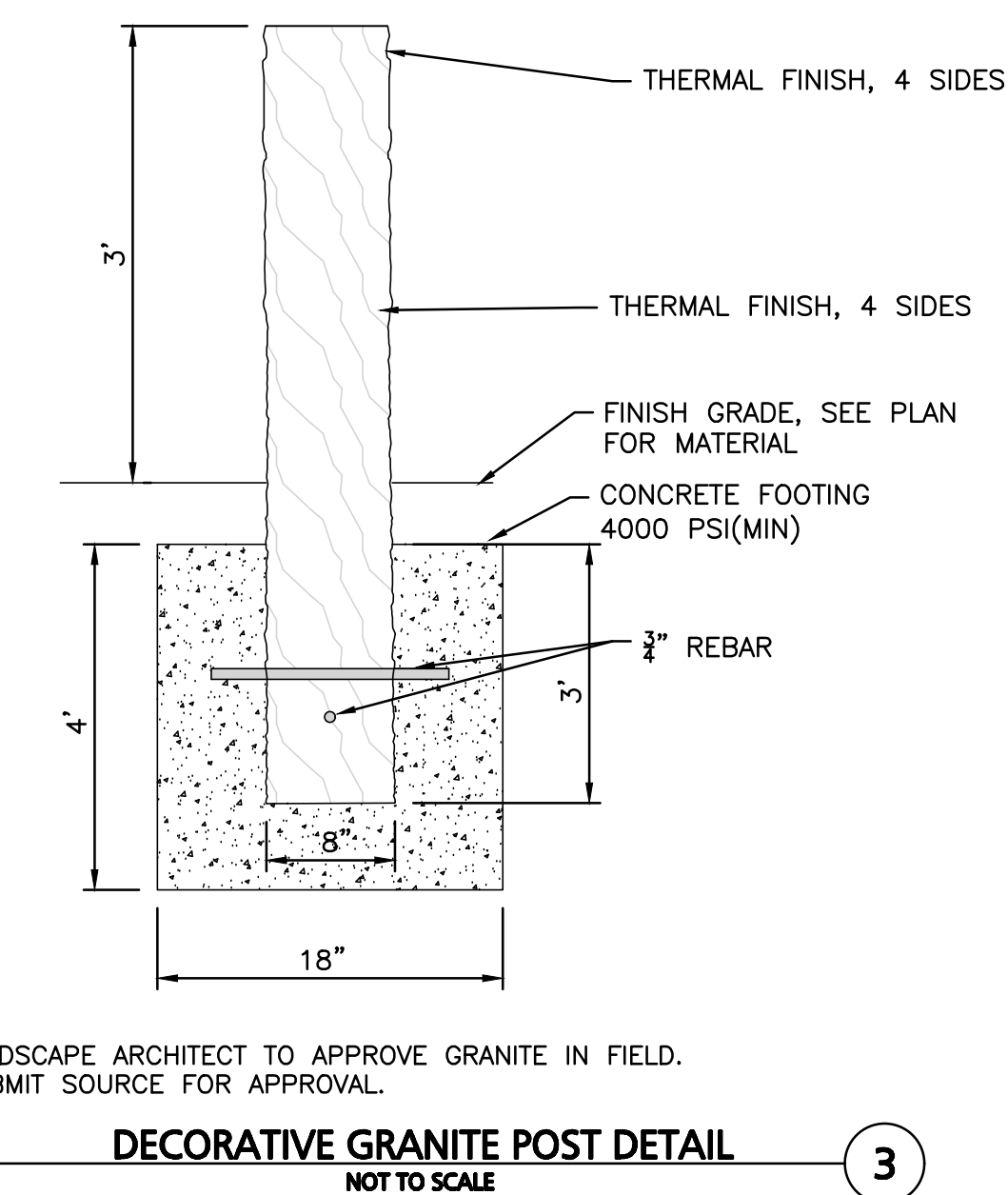
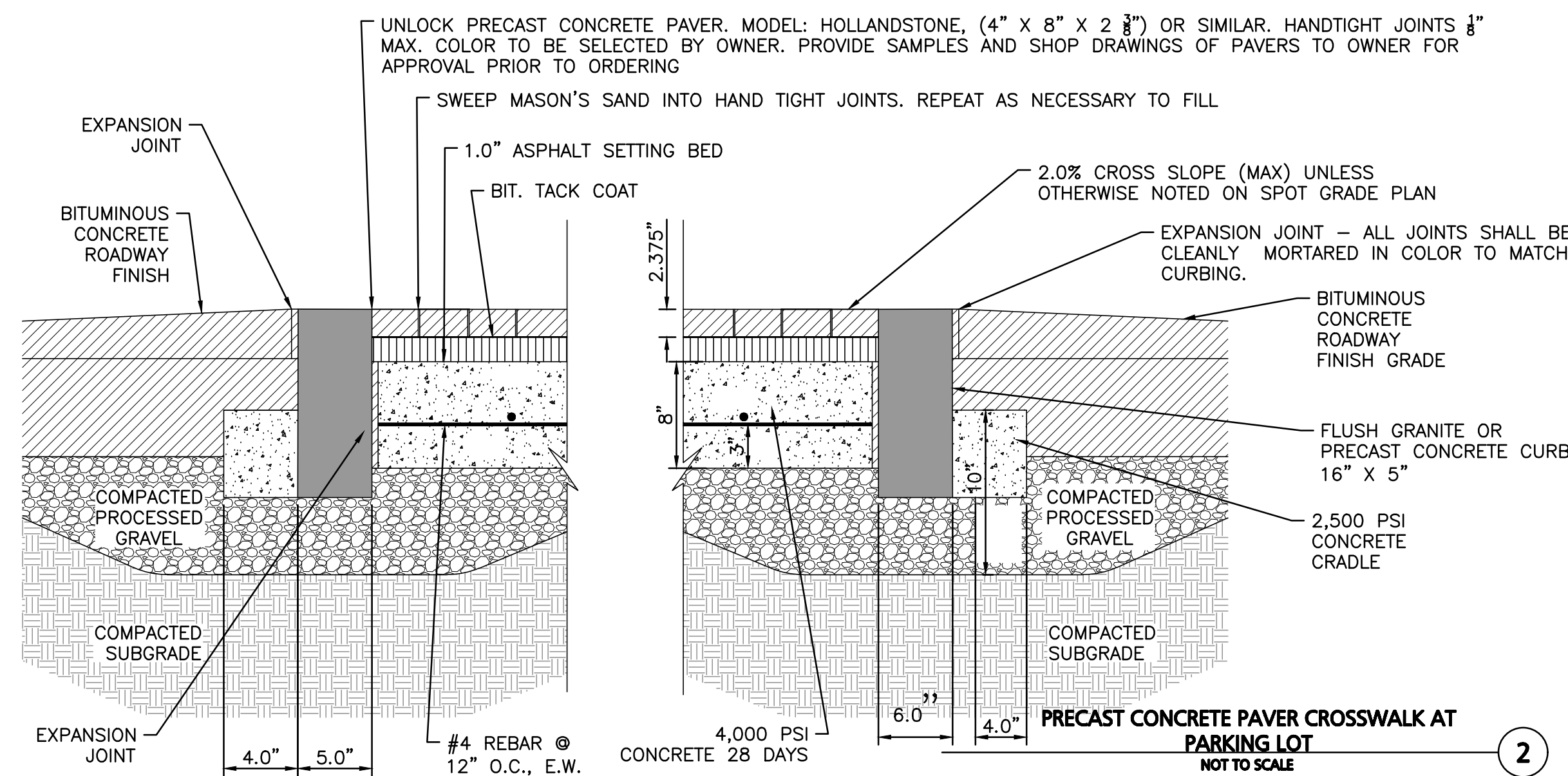
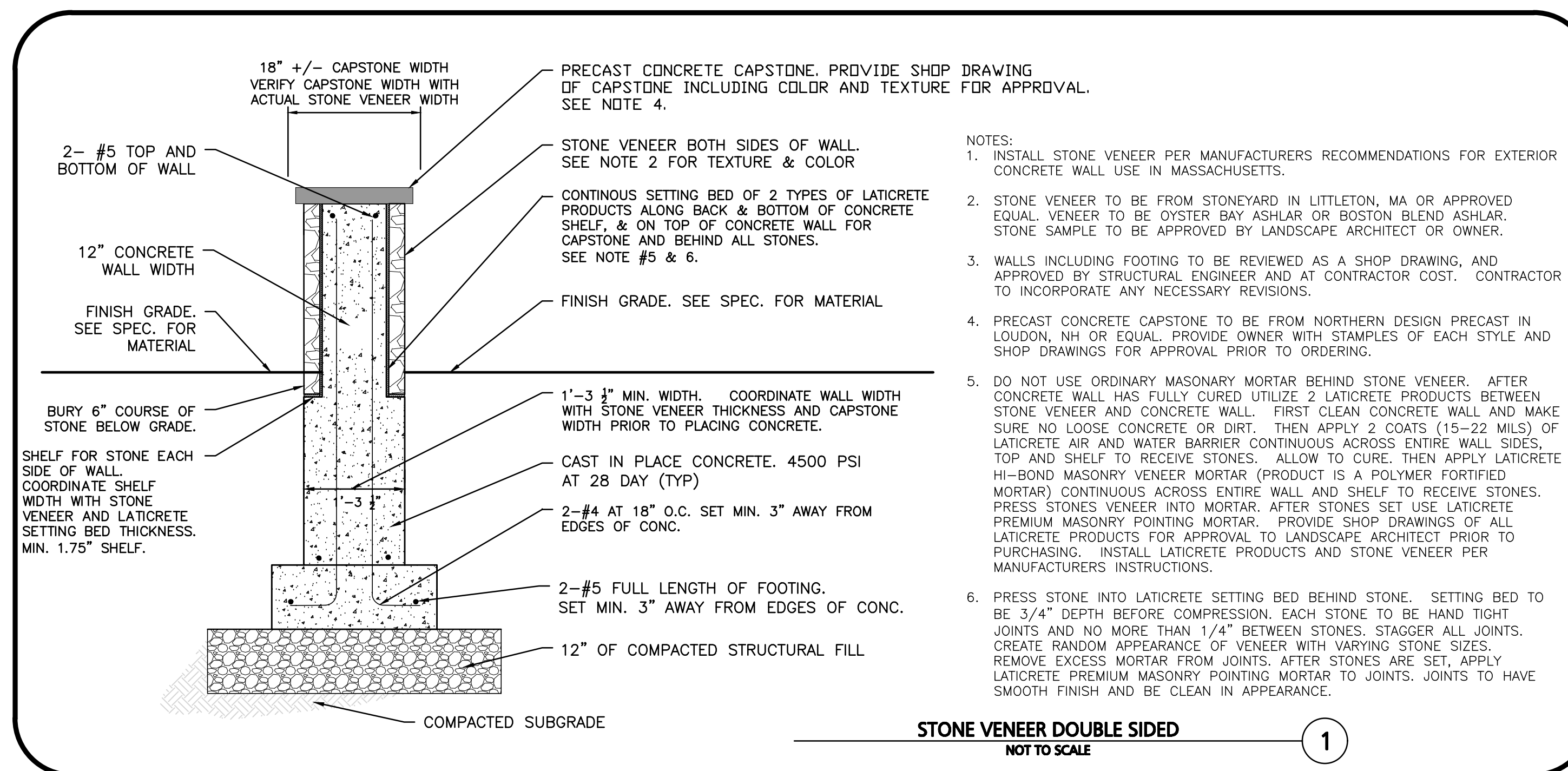
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com

100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN DIGITAL FORMAT. CLIENT/CUSTOMER'S REPRESENTATIVE OR CONSULTANTS MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS FOR HIS/HER INFORMATION AND/OR SPECIFIC USE ON THIS PROJECT. DUE TO THE POTENTIAL THAT THE PROVIDED INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENTS AUTHORSHP ON THE DIGITAL MEDIA. PRINTED REPRESENTATIONS OR PORTABLE DOCUMENT FORMAT OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE:	SHEET No.
LANDSCAPE NOTES	L-502
Copyright©2022 Allen & Major Associates, Inc. All Rights Reserved	



REGISTERED LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

2.	12.21.2022	CHANGES PER COMMENTS
1.	11.14.2022	CHANGES PER COMMENTS
REV	DATE	DESCRIPTION

APPLICANT\OWNER:

NBTC GREAT ROAD, LLC
275 MISHAWUM ROAD, 4TH FLOOR
WOBURN, MA 01801

PROJECT:

25 ROBINSON ROAD,
265, 277, 287 & 289
GREAT ROAD
LITTLETON, MA 01460

PROJECT NO.	2371-04	DATE:	09-07-2022
-------------	---------	-------	------------

SCALE:	AS SHOWN	DWG. NAME:	C-2371-04.dwg
---------------	----------	-------------------	---------------

DESIGNED BY:	BCD	CHECKED BY:	BDJ
--------------	-----	-------------	-----

PREPARED BY:



ALLEN & MAJOR
ASSOCIATES, INC.

civil engineering ♦ land surveying
environmental consulting ♦ landscape architecture
www.allenmajor.com

100 COMMERCE WAY, SUITE 5

WOBURN MA 01801

TEL: (781) 935-6889

FAX: (781) 935-2896

WOBURN, MA ♦ LAKEVILLE, MA ♦ MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN DIGITAL FORMAT. CLIENT/CLIENT'S REPRESENTATIVE OR CONSULTANTS MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS FOR HIS/HER INFORMATION AND/OR SPECIFIC USE ON THIS PROJECT. DUE TO THE POTENTIAL THAT THE PROVIDED INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE DIGITAL MEDIA. PRINTED REPRESENTATIONS OR PORTABLE DOCUMENT FORMAT OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE:

LANDSCAPE NOTES

SHEET No.

L-503