Site Plan Tonella Hill Townhomes TONELLA ROAD MILFORD, NEW HAMPSHIRE







DTL DTL O O S O O S O O S O O S O O S O O S O O O S O O O S O O O O O O O O O O O O O	LEGEND PROPERTY LINE PROPERTY LINE BDGE OF PAVEMENT ABUTTING PROPERTY LINE DOUBLE SOLID YELLOW LINE DOUBLE SOLID YELLOW LINE DRILL HOLE FND. IRON PIPE OR ROD FND. GRANITE or CONCRETE BOUND FND. GRANITE or CONCRETE BOUND FND. CATCH BASIN DRAIN MANHOLE SEWER MANHOLE DRAIN LINE UTILITY POLE SEWER LINE WATER LINE VATER LINE VATER VALVE FIRE HYDRANT 2' CONTOUR TREELINE SIGN LELINEATED WETLAND STRUCTURE	Control of the Dubay Group, Inc. B4 Range Road Windham, NH 03087 603-458-6462 Banners Planners DubayGroup.com
APPROX. 50' N.E.T.&T. CO. EASEMENT 24	LIMITS OF SURVE	0 30 60 SCALE: 1" = 30 FEET REVISIONS:
	328 [INV.OUT =339.02	REV: DATE: COMMENT: BY: 1 4/4/18 REVS. PER TOWN COMMENTS JMM
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N 17°17′25″ W	N 17'03'00" W	.83 DRAWN BY: MNW CHECKED BY: TWS DATE: JAN. 29, 2018 SCALE: 1"=30' FILE: 122ws DEED REF: -
V.OUT 361.42	DHF 3/8" 13" ABOVE GRADE (IN 3'x3' BASE STONE)	PROJECT: TONELLA HILL TOWNHOMES TONELLA ROAD MILFORD, NH 03055
		FOR JESSICA HUDSON 614 NASHUA ST. SUITE 127 MILFORD, NH 03055
LAND SURVEYORS I CERTIFY THAT THIS SURVEY AND UNDER MY DIRECT SUPERVISION A ACTUAL SURVEY PERFORMED ON ERROR OF CLOSURE OF NOT MOR I CERTIFY THAT THIS SURVEY PLA TITLE AND THAT THE LINES OF S' PUBLIC OR PRIVATE STREETS OR NEW WAYS ARE SHOWN. The Ways are shown.	CERTIFICATION:) PLAN WAS PREPARED BY ME OR THOSE AND THAT THIS PLAN IS THE RESULT OF AN THE GROUND IN APRIL 2017 AND HAS AN RE THAN ONE PART IN TEN THOUSAND. IT IS NOT A SUBDIVISION PURSUANT TO THIS TREETS AND WAYS SHOWN ARE THOSE OF WAYS ALREADY ESTABLISHED AND THAT NO $\frac{4/4/18}{18}$	SHEET TITLE: EXISTING CONDITIONS PLAN
TIMOTHY W. SUTHERLAND, LLS #9	991 DATE	PROJECT #122 SHEET 2 of 15







APPROX. 50' NET.RT. CO. EASEMENT	File Dubay Group, Inc. Strange Road Windham, NH 03087 003-458-6462 Engineers Planners Surveyors TheDubayGroup.com Implement Implement Implement Vincham, NH 03055 Implement Planners Surveyors TheDubayGroup.com Implement Implement <
	TONELLA HILL TOWNHOMES TONELLA ROAD MILFORD, NH 03055
S-BUILT PLANS SHALL BE DELIVERED TO THE BUILDING DEPARTMENT PRIOR TO A ERTIFICATE OF OCCUPANCY BEING ISSUED. HE PROJECT IS LOCATED WITHIN THE LEVEL 1 GROUNDWATER PROTECTION DISTRICT. NITS SHALL BE SERVICED BY PRIVATE TRASH PICK-UP. ROJECT IS SUBJECT TO MUNICIPAL IMPACT FEES. ATER, SEWER, ROAD (INCLUDING PARKING LOT) AND DRAINAGE WORK SHALL BE DNSTRUCTED IN ACCORDANCE WITH THE TOWN OF MILFORD'S WATER UTILITIES	JESSICA HUDSON 614 NASHUA ST. SUITE 127 MILFORD, NH 03055
EPARTMENT AND PUBLIC WORKS DEPARTMENT STANDARDS. LL UNITS ARE REQUIRED TO HAVE SPRINKLERS PER THE INTERNATIONAL ESIDENTIAL CODE SECTION 313. ROPERTY OWNER IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE N-SITE CONVEYANCE SWALES, RAIN-GARDENS, AND INFILTRATION POND. OWNER HALL REFER TO THE "OPERATION AND MAINTENANCE PROCEDURES FOR FORMWATER SYSTEMS, TONELLA HILL TOWNHOMES, PREPARED BY THE DUBAY ROUP" FOR SPECIFIC MAINTENANCE SCHEDULE, RESPONSIBILITIES, AND INSPECTION DRMS.	SHEET TITLE: SITE LAYOUT PLAN
	PROJECT #122 SHEET 5 of 15





BO	TONICAL NAME / COMMON NAME	SIZE & REMARKS	MATURE HT.	MATURE WIDTH
DEC	CIDUOUS SHADE TREE			
5	ACER SACCHARUM 'COMMEMORATION' / COMMEMORATION SUGAR MAPLE	2.5" CAL. B¢B	40'-60'	30'-40'
DEC	CIDUOUS UPRIGHT			
9	ACER RUBRUM 'KARPICK' / KARPICK RED MAPLE	2.5" CAL. B¢B	40'-60'	15'-20'
4	AMELANCHIER CANADENSIS / SERVICEBERRY OR SHADBLOW	2.5" CAL. B¢B	20'-30'	10'-15'
NAF	RROW EVERGREEN			
8	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR	6' HT. B¢B	30-40'	15-20'
EVE	RGREEN SHRUB / DWARF			
2	CHAMAECYPARIS OBTUSA 'FERNSPRAY GOLD' / GOLD HINOKI FALSECYPRESS	6 6' HT. B¢B	10'-15'	8'- 0'
EVE 7	RGREEN SHRUB TALL PINUS MUGO MUGO - COMPACT MUGO PINE	G' HT. B¢B	6-8'	8'- 0'
EVE I 5	RGREEN SHRUB MEDIUM JUNIPERUS CHINENSIS 'ARMSTRONG AUREA' / OLD GOLD JUNIPER	30" B¢B	3'-4'	6'-8'
13	JUNIPERUS VIRGINIANA ' GREY OWL' / GREY OWL JUNIPER	30" B¢B	2'-3'	6'-8'
21	JUNIPERUS CHINENSIS 'SEAGREEN' / SEAGREEN JUNIPER	30" B¢B	5'-6'	4'-5'
EVE 24	RGREEN GROUNDCOVER EUONYMUS FORTUNEI COLORATUS / WINTERCREEPER, PURPLELEAF	5 GAL.	2-3"	3-4'
DEC 4	CIDUOUS SHRUB LARGE CORNUS RACEMOSA - DOGWOOD, GREY	4' HT. B¢B	8'-10'	8'-10'
DEC	CIDUOUS SHRUB MEDIUM			
16 6	ITEA VIRGINICA 'HENRY'S GARNET' - SWEETSPIRE, HENRY'S GARNET VIRGINIA BLUEBERRY 'BLUECROP' - BLUEBERRY, BLUECROP	5 GAL. MIN. 2' 5 GAL. MIN. 2'	3'-4' 5'-6'	5'-6' 5'-6'
DEC	CIDUOUS SHRUB SMALL			
26	HYPERICUM KALMIANUM - ST. JOHNSWORT	3 GAL. MIN. 2'	2'-3'	2'-3"
PER	ENNIAL/ GRASSES			
5	GRASS HAKONECHELOA MACRA AUREOLA - GOLDEN JAPANESE FOREST GRA	ASS 2 GAL.	2-3'	2-3'

LANDSCAPE REQUIREMENTS:

LANDSCAPING SHALL BE PROVIDED ALONG ALL BUILDING FRONTAGE. A MINIMUM OF ONE (1) SHRUB FOR EVERY FIVE (5') FEET OF BUILDING FRONTAGE SHALL BE PROVIDED. 312'/5' = 62.4 OR 62 SHRUBS REQUIRED. 79 - (2' MIN. HT.) SHRUBS SHOWN

TI	he Du Wir	bay Group, Is 84 Range Road ndham, NH 03087 603-458-6462 Engineers Planners Surveyors DubayGroup.com	nc.	
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TONELLA HILL TOWNHOMES TONELLA ROAD MILFORD, NH 03055				
	FOR			
JESSICA HUDSON 614 NASHUA ST. SUITE 127 MILFORD, NH 03055				
SHEET TITLE:				
LANDSCAPE PLAN				
F	ROJECT	#122 SHEET 7 of	15	

LANDSCAPE MAINTENANCE

LAWN

- MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH AREA IS PLANTED AND SHALL CONTINUE UNTIL ACCEPTABLE LAWN IS ESTABLISHED, BUT NOT LESS THAN THE FOLLOWING PERIODS:
- SEEDED LAWNS: 60 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. (WHEN FULL MAINTENANCE PERIOD HAS NOT ELAPSED BEFORE THE END OF PLANTING
- SEASON, OR IF LAWN IS NOT FULLY ESTABLISHED, CONTINUE MAINTENANCE DURING NEXT PLANTING SEASON.) SODDED LAWNS: 30 DAYS FROM DATE OF SUBSTANTIAL COMPLETION.
- PLUGGED LAWNS: 30 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. •
- SPRIGGED LAWNS: 30 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. •
- MAINTAIN AND ESTABLISH LAWN BY WATERING, WEEDING, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. • ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND RE-MULCH TO PRODUCE A UNIFORMLY SMOOTH LAWN. IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS, ADD NEW MULCH.
- ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.
- IRRIGATION: PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN-WATERING EQUIPMENT TO CONVEY WATER FROM SOURCES AND KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF FOUR INCHES (100 mm). SCHEDULE WATERING TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF SEED OR MULCH. LAY OUT
- TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS.
- WATER LAWN AT A MINIMUM RATE OF ONE INCH (25 mm) PER WEEK. MOW LAWN AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIC HEIGHT WITHOUT CUTTING MORE THAN 40 PERCENT OF GRASS HEIGHT. REMOVE NO MORE THAN 40 PERCENT OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWING. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET. SCHEDULE INITIAL AND SUBSEQUENT MOWING TO MAINTAIN GRASS HEIGHT.

TREES AND SHRUBS:

- PRUNING SHOULD BE STARTED EARLY AND KEPT UP AT REGULAR INTERVALS. TREES SHOULD BE PRUNED AND SHAPED TO AVOID SPLITTING LATER IN LIFE. BROKEN TOPS AND BRANCHES SHOULD BE REMOVED AS SOON AS POSSIBLE AFTER INJURY. BROKEN, WEAK OR DISEASED BRANCHES SHOULD BE REMOVED FIRST, DEAD BRANCHES SECOND AND HEALTHY BRANCHES LAST.
- PROTECT TREES AND SHRUBS AGAINST DAMAGE INCURRED WITH LAWN MOWERS AND GARDEN EQUIPMENT. MULCH BEDS • SHALL BE INSTALLED AS SHOWN TO KEEP GRASS AWAY FROM TREE TRUNKS.
- THE USE OF ROAD SALT AROUND TREES AND SHRUBS SHOULD BE AVOIDED. • LANDSCAPED AREAS SHALL BE ROUTINELY MAINTAINED AND KEPT FREE OF DEBRIS AND LITTER. MAINTENANCE SHALL • INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL WITHIN THE GUARANTEED CONTRACT PERIOD.

REMOVE WIRE/BURLAP FROM TOP 1/2 OF ROOTBALL AT A MINIMUM ROOTBALL SITTING ON TOP OF UNDISTURBED SLOPE SLOPE SIDED HOLE IS 3 TIMES



AS WIDE AS THE ROOTBALL DIS.

NEVER CUT A LEADER



REMOVE BURLAP FROM TOP 1/2 OF ROOT BALL



(TYPF II) FOR TREES WITH CALIPER 3" OR GREATER 6 1/2" GALV. TURNBUCKLE # #12 GA. GALV. ANCHOR WITH 2"x2"x2' SPRUCE STAKE

TRFF WRAP -SURVEY FLAGGING-

REMOVE BURLAP FROM-TOP 1/2 OF ROOT BALL BACKFILL WITH PLANTING MIX



NEVER CUT A LEADER -----

GROUND LINE TO BE -SAME AS AT NURSERY



BACKFILL WITH PLANTING MIX -SLOPE PLANTING DETAIL

- TOP MOST ROOT IN ROOTBALL ABOVE EXISTING GRADE, UPHILL SIDE "-3" SHREDDED HARDWOOD

BARK MULCH (APPLIED MINUMUM 2' AWAY FROM TRUNK)

SEE TREE PLANTING DETAIL FOR STAKING INFO.

I 2 GA. GALV. TWISTED WIRE IN RUBBER HOSE —AROUND TREE AT 2/3 HEIGHT OF TREE FROM GRADE

FOR TREES LESS THAN 5' IN HEIGHT (3) 2"x2"x5' SPRUCE STAKES AT 120° SPACING. A MINIMUM OF 36" IN GROUND. STAKES TO BE CLEAR OF ROOTBALL

- GROUND LINE TO BE SAME AS AT NURSERY - 3" SHREDDED HARDWOOD BARK MULCH (FORM SAUCER FOR WATER RETENTION)

- 6" MIN. PLANTING SOIL MIX UNDER ROOTBALL

EVERGREEN PLANTING DETAIL



DECIDUOUS TREE PLANTING DETAIL NTS



- 3" BARK MULCH

REMOVE BURLAP FROM TOP 1/2 OF ROOT BALL

6" MIN. PLANTING SOIL MIX UNDER ROOTBALL

LANDSCAPE NOTES:

1. BASE INFORMATION SHOWN ON THIS PLAN IS NOT NECESSARILY CORRECT OR COMPLETE AND WAS TAKEN ENTIRELY FROM BASE PLANS PROVIDED BY THE ENGINEER. PRIOR TO CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING AND NEWLY INSTALLED UTILITIES AND SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY CONFLICTS.

2. LANDSCAPING SHOWN ON THIS PLAN HAS BEEN DESIGNED TO COMPLY WITH THE TOWN OF MILFORD LANDSCAPE REGULATIONS.

3. WHEREVER POSSIBLE EXISTING TREES SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION AS SHOWN.

4. THE PROPOSED DECIDUOUS TREES SHALL BE A MIN. 2.5"-3.5" CALIPER WITH A MINIMUM HEIGHT OF 12', EVERGREEN TREES A MINIMUM OF 6' HIGH AND SHRUBS 2' AT TIME OF PLANTING.

5. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED WITH A MINIMUM OF 6" SUITABLE LOAM, EXCEPT UNDER THE MULCH BEDS. SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET. (SEE PLANS BY ENGINEER)

6. PLANTS SHALL NOT BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED WITHIN THE IMMEDIATE AREA OF THE PLANTING. 7. ALL TREES SHALL BE BALLED AND BUR LAPPED UNLESS OTHERWISE NOTED.

8. ANY PROPOSED PLANT MATERIAL SUBSTITUTIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE, THE TOWN OF MILFORD STAFF AND THE LANDSCAPE ARCHITECT.

9. WHERE APPLICABLE THE CONTRACTOR SHALL HAVE ALL FALL TRANSPLANTING HAZARD PLANTS DUG IN THE SPRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

10. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.

I. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.

12. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

13. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED.

14. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI 260 (REV. 1996) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.

15. ALL PLANTS SHALL BE PLANTED IN AMENDED TOP SOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES. PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.

I.G. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.

17. 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. ALL PLANT MATERIAL SHALL BE SPRAYED WITH 'WILT-PRUF' OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.

18. NO PLANT, EXCEPT GROUND COVERS/PERENNIALS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.

19. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PIT.

20. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES AS A RESULT OF CONSTRUCTION OPERATIONS. ALL EXISTING TREES SHALL BE FERTILIZED WITH A REGULAR GARDEN FERTILIZER (5-10-5) UPON COMPLETION OF WORK. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE TRUNK. CONTRACTOR TO ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH SHARP TOOLS AND FILLED AROUND WITH TOPSOIL. COMPLETELY SATURATE THESE AREAS WITH WATER. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR IS TO PROTECT ALL EXISTING TREES TO REMAIN BY ERECTING TREE PROTECTION FENCE AT THE DRIP LINE. THIS WILL ENSURE NO COMPACTION OF THE ROOT MASS.

2 I . ALL PLANTING BEDS SHALL BE MULCHED WITH 3" LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH. MULCH SHALL NOT COVER ROOT FLARE OF TREES.

22. THE PURPOSE OF THIS PLAN IS FOR LANDSCAPE PURPOSES ONLY. FOR SITE DESIGN AND SITE LAYOUT SEE PLANS BY THE DUBAY GROUP, INC.

23. THE OWNER AND THEIR REPRESENTATIVE SHALL BE RESPONSIBLE FOR PROVIDING, PROTECTING AND MAINTAINING ALL LANDSCAPING IN HEALTHY AND GROWING CONDITION, AND REPLACING IT WHEN NECESSARY TO INSURE CONTINUOUS CONFORMANCE WITH THESE GUIDELINES. ANY LANDSCAPE ELEMENT THAT DIES, OR IS OTHERWISE REMOVED, SHALL BE PROMPTLY REPLACED WITH THE SAME, IF NOT SIMILAR TO, hEIGHT OR TEXTURE ELEMENT AS ORIGINALLY INTENDED. IN ADDITION, LANDSCAPED AREAS SHALL BE KEPT FREE OF ALL DEBRIS, RUBBISH, WEEDS AND OVERGROWN TURF GRASS. IF THE OWNERSHIP OF A SITE IS CONVEYED TO A NEW PROPERTY OWNER, THE NEW OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING IN ACCORDANCE WITH THE APPROVED FINAL LANDSCAPING PLAN.

24. ALL NEW PLANTING AREAS, LAWN AND SOD SHALL BE PROVIDED WITH A TEMPORARY DRIP IRRIGATION SYSTEM. FOR AN ENTIRE GROWING SEASON, ALL PLANTING AREAS, TREES AND SEEDED SIDE SLOPES, SHALL BE IRRIGATED BY THE LANDSCAPE CONTRACTOR UNTIL IRRIGATION SYSTEM IS INSTALLED OR PLANTS ARE ESTABLISHED. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR TRUCKING IN WATER. THE CONTRACTOR SHALL FURNISH HOSE AND OTHER WATERING EQUIPMENT. THIS SHALL BE COORDINATED BETWEEN THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR. IN THE EVENT THAT PLANTINGS AND SEEDING ARE COMPLETED TOO LATE IN THE FALL FOR ADEQUATE GERMINATION AND/OR GROWTH, MAINTENANCE SHALL CONTINUE INTO THE FOLLOWING GROWING SEASON.

25. INVASIVE SPECIES AND/OR TOXIC PLANTS SUCH AS POISON IVY, POISON OAK, POISON SUMAC AND/OR GIANT HOG WEED SHALL BE MANAGED ACCORDING TO ACCEPTED HORTICULTURAL TECHNIQUES AND PROVISIONS CREATED BY THE STATE OF NH AND THE STANDARDS OF ANSI A300.7.



BASE INFORMATION SH TAKEN ENTIRELY FROM BY OTHERS. THIS PLAN INTENDED FOR APPROV THE TOWN OF WINDHAM LANDSCAPE PURPOSES FOR SITE DESIGN AND CONSTRUCTION

SPECIFICATIONS SEE PLAN BY THE DUBAY GROUP INC.

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TONELLA HILL				
TONELLA ROAD				
MILFORD, NH 03055				
FOR				
JESSICA HUDSON				
614 NASHUA ST. SUITE 127 MILFORD, NH 03055				
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	SPECIFICATIONS	
М	TEMPORARY CHECK DAMS SHOULD CONFORM TO THE FOLLOWING REQUIREMENTS:	
O VAL, BUT	CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM	
L FOR	SHOULD BE LESS THAN ONE ACRE. THE MINIMUM HEIGHT OF THE DAM SHOULD BE ONE FOOT ON	The Dubay Group, Inc.
ROM A JULD BE	SLOPES. THE MAXIMUM HEIGHT OF THE DAM SHOULD BE TWO FEET.	84 Kange Koad Windham, NH 03087 603-458-6462
)	THE CENTER OF THE DAM SHOULD BE AT LEAST 6 INCHES LOWER THAN THE OUTER EDGES.	Engineers
CONSTRUCTED	THE MAXIMUM SPACING BETWEEN THE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME	Planners
USED TO LOWS,	ELEVATION AS THE OVERFLOW ELEVATION OF THE DOWNSTREAM DAM.	Surveyors
IENT DAM IS NOT	THE CHECK DAM SHOULD NOT BE USED IN A FLOWING STREAM. STONE CHECK DAMS SHOULD BE CONSTRUCTED OF A	TheDubayGroup.com
SED AS SUCH. NELS THAT	WELL-GRADED ANGULAR 2-INCH TO 3-INCH STONE. 3/4-INCH STONE ON THE UPGRADIENT FACE IS RECOMMENDED FOR BETTER FILTERING.	
EITHER I CHANNELS.	IF CAREFULLY INSTALLED AND MONITORED, TIMBER CHECK DAMS MAY BE USED, AND SHOULD BE CONSTRUCTED OF 4-INCH TO	
FIONS WHERE CONSIDERED. NT DITCHES 3LISHMENT OF	6-INCH LOGS EMBEDDED AT LEAST 18 INCHES DEEP INTO THE SOIL. HOWEVER, STONE CHECK DAMS ARE GENERALLY PREFERRED. THE STONE HAS THE ABILITY TO CONFORM TO THE CHANNEL AND SETTLE IF SCOUR OCCURS, RENDERING STONE CHECK DAMS LESS SUSCEPTIBLE TO SCOUR AROUND THE ENDS	
AS CHECK ATED FLOW. LICATIONS	IF PROVIDED BY DESIGN AND CONSTRUCTION PLANS, LEAVE THE	
VENT THE H CASES, F STRAW OR	TEMPORARY STRUCTURES SHOULD BE REMOVED ONCE THE	
TO LESS THAN BARRIER.	SWALE OR DITCH HAS BEEN STABILIZED: IN TEMPORARY DITCHES AND SWALES, CHECK DAMS SHOULD	
	BE REMOVED AND THE DITCH FILLED WHEN ITS NO LONGER NEEDED.	DOUGLAS
LL AND AI RY REPAIRS	IN PERMANENT STRUCTURES, CHECK DAMS SHOULD DE REMOVED WHEN A PERMANENT LINING HAS BEEN ESTABLISHED. IF THE PERMANENT LINING IS VEGETATION,	$ = \frac{3}{2} \frac$
DAM IS	THE THE CHECK DAM SHOULD BE RETAINED UNTIL THE GRASS HAS BEEN MATURED TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAM MUST BE	CINSES PULL
F THE DAM	SEEDED AND MULCHED IMMEDIATELY AFTER REMOVAL.	
OWN STREAM CTED AND		REVISIONS:
		KEV: DATE: COMMULINE. DT.
R BEFORE.		
_	1-3/4"X1-3/4" (MIN) METAL OR WOOD POST OR STAKE	
7	DIRECTION OF	
))	DLD GROUND	
OLD G	SROUND	
ANNIN SIN	UPPORT POST ANCHORAGE	
	END VIEW	
FENCE	3) SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.	DRAWN BY: MAC CHECKED BY: DGM DATE: JAN. 29, 2018 SCALE: AS NOTED
<u>IOD</u> 82	4) SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED	FILE: DETAILS DEED REF: -
2 86	TO CONFORM WITH THE EXISTING TOPOGRAPHT AND VEGETATED.	ll j
IEVE	CONSTRUCTION SPECIFICATIONS: 1) THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA	PROJECT:
SHALL L BE	FOR SILT FENCES. 2) THE FABRIC SHALL BE <u>EMBEDDED A MINIMUM OF 8 INCHES</u> <u>INTO THE GROUND</u> AND THE SOIL COMPACTED OVER THE EMPEDDED EARDIC	TONELLA HILL
E USED LTER	3) FILTER CLOTH SHALL BE FASTENED SECURELY TO THE	TONELLA ROAD
IRER'S	 WOODEN STARES EVERT 12 INCIDES. 4) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO WOOD STAKE. 	
R EACH NFALL.	5) POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND, AND OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.	
OR HE DURS.	6) MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.	JESSICA HUDSON 614 NASHUA ST. SUITE 127 MILFORD, NH 03055
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		PROJECT #122 SHEET 10 of 15

EROSION CONTROL NOTES

CONSTRUCTION SEQUENCE

- 1. PRIOR TO CONSTRUCTION, AN INITIAL PRE CONSTRUCTION MEETING(S) SHALL TAKE PLACE WITH THE CONTRACTOR, OWNER, TOWN AGENTS, AND NHDOT DISTRICT 5 OFFICE (666-3336).
- 2. THIS SITE WILL REQUIRE A USEPA NPDES PERMIT FOR STORMWATER DISCHARGE FOR THE SITE CONSTRUCTION SINCE THE DISTURBANCE EXCEEDS ONE ACRE. THE CONSTRUCTION SITE OPERATOR SHALL DEVELOP AND IMPLEMENT A CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WHICH SHALL REMAIN ON SITE AND MADE ACCESSIBLE TO THE PUBLIC. A COMPLETED NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO NPDES PERMITTING AUTHORITY WITHIN 30 DAYS AFTER EITHER OF THE FOLLOWING CONDITIONS HAVE BEEN MET: FINAL STABILIZATION HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE; OR ANOTHER OPERATOR/PERMITTEE HAS ASSUMED CONTROL OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- 3. INSTALL PERIMETER CONTROLS. I.E SILT FENCE AND/OR SILTSOXX AROUND THE LIMITS OF DISTURBANCE BEFORE ANY EARTH MOVING OPERATION.
- 4. CONSTRUCT TEMPORARY CONSTRUCTION EXIT.
- 5. CLEAR AND GRUB WITHIN AREAS OF DISTURBANCE UNLESS OTHERWISE NOTED.
- 6. REMOVE AND STOCKPILE MATERIALS AS REQUIRED. STOCKPILE SHALL BE SURROUNDED WITH AN EROSION CONTROL DEVICE TO PREVENT EROSION. STOCKPILE AREAS ARE LIMITED AND THUS MANAGEMENT OF MATERIALS WILL BE REQUIRED.
- 7. SHAPE PROPOSED DRAINAGE PONDS, DITCHES AND/OR SWALES.
- 8. PERFORM ROUGH SITE GRADING. INSTALL DRAINAGE SYSTEMS AND UTILITIES.
- 9. INSTALL UNDERGROUND UTILITIES AND PLACE EROSION CONTROL MEASURES AROUND ANY CATCH BASINS PRIOR TO DIRECTING ANY RUNOFF TO THEM. DRAINAGE SYSTEMS SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO DIRECTING ANY FLOW TO THEM. ALL SIDE SLOPES SHALL BE STABILIZED WITHIN 72 HOURS.
- 10. LAYOUT AND INSTALL ALL BURIED UTILITIES AND SERVICES UP TO 10' OF THE PROPOSED BUILDING FOUNDATIONS. CAP AND MARK TERMINATIONS OR LOG SWING TIES.
- 11. FINISH GRADE SITE, BACKFILL ROAD SUBBASE GRAVEL IN. PROVIDE TEMPORARY EROSION PROTECTION TO DITCHES AND SWALES WHERE APPLICABLE, IN THE FORM OF MULCHING, JUTE MATTING OR STONE CHECK DAMS.
- 12. ANY PERMANENT DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- 13. PLACE BINDER LAYER OF PAVEMENT.
- 14. AFTER ALL DRAINAGE AND ROADWAY IMPROVEMENTS (NOT INCLUDING FINAL LAYER OF PAVEMENT) HAVE BEEN COMPLETED, BEGIN CONSTRUCTION OF THE BUILDING FOUNDATIONS AND CONNECT TO SITE UTILITIES. BEGIN BUILDING CONSTRUCTION.
- 15. PLANT LANDSCAPING IN AREAS OUT OF WAY OF BUILDING CONSTRUCTION. PREPARE AND STABILIZE FINAL SITE GRADING BY ADDING TOPSOIL, SEED, MULCH AND FERTILIZER.
- 16. AFTER BUILDINGS ARE COMPLETED, FINISH ALL REMAINING LANDSCAPED WORK.
- 17. CONSTRUCT ASPHALT WEARING COURSE.
- 18. REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF FINAL STABILIZATION OF THE SITE.
- 19. LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

GENERAL CONSTRUCTION NOTES

- 1. THE TEMPORARY BMPS ASSOCIATED WITH THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND LANDOWNER, WHO WILL BE RESPONSIBLE FOR INSPECTION, OPERATION, AND MAINTENANCE.
- EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION OF THE NHDOT". EROSION CONTROL SHALL BE INSTALLED DOWNHILL OF ALL AREAS WHERE WORK WILL EXPOSE UNPROTECTED SOIL TO PREVENT SEDIMENT FROM ENTERING CATCH BASINS, DRAINAGE STRUCTURES AND/OR DRAINAGE WAYS. INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO ANY EARTH MOVING OPERATIONS. THE CONTRACTOR SHALL MANAGE THE PROJECT IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- EROSION CONTROL DEVICES SHALL BE INSTALLED WHERE REQUIRED PRIOR TO ANY ON-SITE GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. EROSION CONTROL MEASURES SHALL BE MAINTAINED DURING DEVELOPMENT AND SHALL BE CHECKED PERIODICALLY AND EXCESS SILT SHALL BE REMOVED.
- 4. ALL DISTURBED AREAS WHICH ARE FINISH GRADED SHALL BE LOAMED (6" MINIMUM) AND SEEDED. SEE SEEDING AND FERTILIZER SPECIFICATION. SEE SLOPE DESIGN AND/OR LANDSCAPE PLAN FOR ADDITIONAL INFORMATION.
- 5. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER SHALL BE MACHINED STRAW MULCHED AND SEEDED WITH SLOPE STABILIZATION SEED MIXTURE TO PREVENT EROSION. STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.
- 6. ALL DRAINAGE SYSTEMS (DITCHES, SWALES, DRAINAGE PONDS/BASINS, ETC.) SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM. STORMWATER FLOWS ARE NOT TO BE DIRECTED TO THESE SYSTEMS UNTIL CONTRIBUTING AREAS HAVE ALSO BEEN FULLY STABILIZED.
- 7. CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH NHDES, EPA & TOWN REQUIREMENTS FOR THE DURATION OF THE PROJECT. WATER FOR DUST CONTROL SHALL BE PROVIDED ON SITE. FUGITIVE DUST IS CONTROLLED IN ACCORDANCE WITH ENV-A 1000.
- 8. ALL EROSION CONTROLS ARE TO BE INSPECTED WEEKLY AND AFTER 0.5" OR GREATER OF RAINFALL WITHIN A 24 HOUR PERIOD.
- 9. ALL FILLS SHALL BE PLACED AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY IN LAYERS NOT EXCEEDING 18 INCHES IN THICKNESS UNLESS OTHERWISE NOTED. FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC. AND SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.
- 10. SILT FENCES AND/OR SILTSOXX SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILT FENCES AND/OR SILTSOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURE LOCATION.
- 11. PAVED AREAS MUST BE KEPT CLEAN AT ALL TIMES.
- 12. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.
- 13. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING. EXPOSURE OF UNSTABILIZED SOILS SHALL BE TEMPORARILY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 45 DAYS OF INITIAL DISTURBANCE.
- 14. WINTERIZATION EFFORTS FOR AREAS NOT STABILIZED BY NOV. 1ST SHALL BE MADE BY THE APPROPRIATE USE OF MATTING, BLANKETS, MULCH AND SEEDING.
- 15. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- A. BASE COURSE GRAVELS HAS BEEN INSTALLED IN AREAS TO BE PAVED;
- B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED; OR
- D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 16. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE CONTRACTOR SHALL BE REQUIRED TO IMMEDIATELY INSTALL AND MAINTAIN THE NECESSARY EROSION PROTECTION.

SEEDING SPECIFICATION

- 1. TEMPORARY SEED
 - FINAL GRADED WITHIN 45 DAYS.
 - MANUAL, VOLUME 3, TEMPORARY VEGETATION SECTION.
- C. SEEDING MIXTURE SDECIES MIXTURE

SPECI	ES	POUNDS
WINTE	R RYE	
OATS		
ANNU	AL RYEGRASS	
PEREN	NIAL RYEGRASS	

- 2. SEEDING SCHEDULE
- A. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. B. PERMANENT SEEDING SHOULD BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST. IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, MULCH ACCORDING TO THE NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

TOTAL

- 3. ESTABLISHING A STAND OF GRASS
- A. STONES AND TRASH SHOULD BE REMOVED FROM LOAMED AREAS SO AS NOT TO INTERFERE WITH THE SEEDING PROCESS. B. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH
- OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED. C. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHOULD BE APPLIED DURING THE GROWING
- SEASON. D. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 600 POUNDS PER ACRE OR 13.8 POUNDS PER 1,000 SQUARE FEET OF LOW PHOSPHATE FERTILIZER (N-P205-K20) OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50
- PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB. PER 1,000 SQUARE FEET).
- E. FERTILIZER SHOULD BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER
- 4. SEED SHOULD BE SPREAD UNIFORMLY BY A METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDING HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. A. INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE AND AMOUNT OF INOCULANTS.
- B. NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10 % WHEN HYDROSEEDING.
- C. WHERE FEASIBLE, EXCEPT WHERE FITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED. THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.
- D. THE GRADE "A" OF SEEDING MIXTURE SHOULD BE USED WITH THE FOLLOWING SEEDING RATES, BASED ON THE SEEDING GUIDE. MINTUDE

MIXTURE	SPECIES	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A	TALL FESCUE	20	0.45
	CREEPING RED FESCUE	20	0.45
	REDTOP	2	0.05
	TOTAL	42	0.95

- 5. ALTERNATE PERMANENT SEEDING FOR AREAS NOT FOLLOWS:
- A. THE NEW ENGLAND EROSION CONTROL/RESTORATI AND WILDFLOWERS DESIGNED TO COLONIZE GEN QUICK GROWTH OF VEGETATION IS DESIRED PARTICULARLY APPROPRIATE FOR DETENTION BASIN THE PLANTS IN THIS MIX CAN TOLERATE INFREQU NEW ENGLAND, THE BEST RESULTS ARE OBTAINED AND FALL SEEDING CAN BE SUCCESSFUL WITH CONSERVE MOISTURE. LATE FALL AND WINTER DO SEEDING RATE. FERTILIZATION IS NOT REQUIRED
- B. APPLICATION RATE: 35 LBS/ACRE 1245 SQ FT/L
- C. SPECIES: SWITCHGRASS (PANICUM VIRGATUM), CRE RYE (ELYMUS VIRGINICUS), FOX SEDGE (CARE> STOLONIFERA), SILKY WILD RYE (ELYMUS VILLOSUS RUSH (JUNCUS EFFUSUS), GRASS-LEAVED GO (ONOCLEA SENSIBILIS), JOE-PYE WEED (EU PERFOLIATUM), FLAT-TOP ASTER (ASTER UMBELL VERVAIN (VERBENA HASTATA).

WINTER NOTES

- 1. ALL PROPOSED VEGETATED AREAS WHICH DO NOT OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER AND INSTALLING EROSION CONTROL BLANKETS ON PLACING 3 TO 4 TONS OF MULCH PER ACRE, SEC INSTALLATION OF EROSION CONTROL BLANKETS O ACCUMULATED SNOW OR ON FROZEN GROUND AND SPRING MELT EVENTS:
- 2. ALL AREAS TO BE PLANTED WHICH DO NOT EXHIBIT 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER OR EROSION CONTROL BLANKETS APPROPRIATE FOR
- 3. AFTER NOVEMBER 15TH, INCOMPLETE SURFACES TO WINTER SEASON, SHALL BE PROTECTED WITH A MININ ITEM 304.3 OR CRUSHED STONE.

MAINTENANCE AND PROTECTION

- 1. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES DEVELOPS.
- 2. TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST ESTABLISHED PERMANENT GRASS SPECIES, WITH A SQUARE FOOT.
- 3. SEEDED AREAS WILL BE FERTILIZED AND RE-ESTABLISHMENT.
- 4. THE SWALES WILL BE CHECKED WEEKLY AND REPAI IS ESTABLISHED.
- 5. THE SILT FENCE AND/OR SILTSOXX BARRIER SHALL DAILY DURING PROLONGED RAINFALL.
- 6. SILT FENCE AND/OR SILTSOXX SHALL BE REMOVED AREAS RESULTING FROM SLIT FENCE AND/OR SILTSO

	20	0.45
	42	0.95
•	RECEIVING LAWN OR LA	ANDSCAPING SHALL BE AS
	ON MIX CONTAINS A SELE ERALLY MOIST, RECENTLY O STABILIZE THE SOIL S WHICH DO NOT NORMAI ENT INUNDATION, BUT NO' WITH A SPRING OR EARL A LIGHT MULCHING OR RMANT SEEDING REQUIRE UNLESS THE SOILS ARE F	ECTION OF NATIVE GRASSES DISTURBED SITES WHERE SURFACE. THIS MIX IS LLY HOLD STANDING WATER. T CONSTANT FLOODING. IN Y FALL SEEDING. SUMMER DF WEED—FREE STRAW TO A SLIGHT INCREASE IN THE PARTICULARLY INFERTILE.
S L	EPING RED FESCUE (FEST VULPINOIDEA), CREEPINO), NODDING BUR-MARIGOI DENROD (SOLIDAGO GRAI IPATORIUM MACULATUM), NUS), NEW YORK ASTER	TUCA RUBRA), VIRGINIA WILD G BENTGRASS (AGROSTIS LD (BIDENS CERNUA), SOFT MINIFOLIA), SENSITIVE FERN BONESET (EUPATORIUM (ASTER NOVI-BELGII), BLUE
	XHIBIT A MINIMUM OF 8 OCTOBER 15TH, SHALL I SLOPES GREATER THAN CURED WITH ANCHORED N MULCH AND NETTING SHALL BE COMPLETED	5% VEGETATIVE GROWTH BY BE STABILIZED BY SEEDING N 3:1, AND SEEDING AND NETTING, ELSEWHERE. THE SHALL NOT OCCUR OVER IN ADVANCE OF THAW OR
4 15 T	A MINIMUM OF 85% VEGET 5TH, SHALL BE STABILIZED THE DESIGN FLOW CONDITI	TATIVE GROWTH BY OCTOBER D TEMPORARILY WITH STONE IONS.
D IN	BE PAVED, WHERE WOR IUM OF 3 INCHES OF CR	RK HAS STOPPED FOR THE SUSHED GRAVEL PER NHDOT
5	ARE NECESSARY TO PRO	DTECT THE GRASS WHILE IT
T	OF A UNIFORM STAND UNIFORM COUNT OF AT	OF AT LEAST 90 PERCENT LEAST 100 PLANTS PER
-:	SEEDED AS NECESSARY	TO INSURE VEGETATIVE
١F	RED WHEN NECESSARY, U	INTIL ADEQUATE VEGETATION
-	BE CHECKED AFTER EAC	CH RAINFALL AND AT LEAST
))>	ONCE VEGETATION IS ES (X REMOVAL SHALL BE PE	TABLISHED, AND DISTURBED ERMANENTLY SEEDED.

LOCATION	L	W1	W2
FES-1	11'	3'	8'
FES-2	10'	3'	13'

LOCATION	L	W1	W2
FES-1	11'	3'	8'
FES-2	10'	3'	13'

	FES-1	11	2	3'	8'	
	FES-2	10	2	3'	13'	
						1
K RIP	RAP GRADATION	l				
NF WE	IGHT SMALLER GIVEN SIZE	SIZE OF STON	E IN INCHES	DRAINA FES, H	AGE PIPE, HEADWALL	
	100 85 50	9.0 TO 8.0 TO 6.0 TO	9.0 TO 12.0 8.0 TO 10.8 6.0 TO 7.5			B

<u>S PER ACRE</u>	POUNDS PER 1,000 SQ. FT.
112	2.50
80	2.00
40	1.00
30	0.17
262	5.67

B. SEED BED PREPARATION SHALL BE IN ACCORDANCE WITH THE NHDES STORMWATER MANAGEMENT

A. TEMPORARY VEGETATIVE COVER SHOULD BE APPLIED WHERE EXPOSED SOIL SURFACES WILL NOT BE

	Control of the Dubay Group. Control of the Dubay Group.com
	Image: Second
LOCATION L W1 W2 d50 Dt FES-1 11' 3' 8' 3" 9" FES-2 10' 3' 13' 3" 9"	
NOCK NIP WARP GRADATION Image: Constraint of the state of stone in inches 100 9.0 TO 12.0 85 8.0 TO 7.5 15 1.8 TO 3.0 Image: Constraint of the state of stone in inches Image: Constraint of the state of stone in inches Image: Constraint of the state of stone in inches Image: Constraint of the state of stone in inches Image: Constraint of the state of stone in inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches Image: Constraint of the stone inches <	DRAWN BY: MAC CHECKED BY: DGM DATE: JAN. 29, 2018 SCALE: AS NOTED FILE: DETAILS DEED REF: -
 CONSTRUCTION SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE LINES AND GRADES SHOWN ON THE PLANS. THE SUBGRADE, GEOTEXTILE FABRIC, AND RIPRAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS. THE ROCK OR GRAVEL USED FOR RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION. GEOTEXTILE FABRIC SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP, DAMAGED AREAS IN THE FABRIC SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP, DAMAGED AREAS IN THE FABRIC SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP, DAMAGED AREAS IN THE FABRIC SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP, DAMAGED AREAS IN THE FABRIC SHALL BE PROTECTED FOR MPUNCTURE OR TEARING DURING THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE STARGE CONSTRUCTION TO THE STORE STARC. Such A MANNER AS TO PREVENT SEGREGATION OF THE STORE SIZES. THE RUPRAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STORE SIZES. THE MEDIAN STONE DIAMETER FOR THE RIPRAP APRON IS dSO. FIFTY PERCENT BY WEIGHT OF THE RIPRAP MIXTURE SHALL BE SMALLER THAN THE MEDIAN STONE SIZE. THE LARGEST STONE SIZE IN THE MIXTURE SHALL BE 1.5 TIMES THE dSO. MILTERNAN MILTERNAN MUTURE ON THE OUTLET STOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM WITHIN THE GROWING STABILIZATION PERCION. IF THE RIPRAP HAS BEED DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPARED IMMEDIATELY. THE CHANNEL SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM WITHIN THE GROWING STABILIZATION DEBUTHER THAT COULD CHANNEL SHOULD DE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM WITHIN THE GROWING STABILIZATION DEBUTE THAT COULD CHANNEL SHOULD DE CHECKED, UNDERMINED AND OLD DE DEBUTE THAT COULD CHANNEL SHOULD DE CHECKED TO SEE THAT EROSION I	TOWNHOMES TONELLA ROAD MILFORD, NH 03055 FOR JESSICA HUDSON 614 NASHUA ST. SUITE 127 MILFORD, NH 03055
TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON. STONE LINED OUTLET PROTECTION NOT TO SCALE	SHEET TITLE: SITE DETAILS-2
	PROJECT #122 SHEET 12 of 15

<u>RSHED LEGEND:</u>	
JBCATCHMENT: A relatively homogeneous area of land that ains into a single reach or pond. Each subcatchment enerates a runoff hydrograph. (A subcatchment may also be sed to account for the rain falling directly on the surface of	57
pond.) EACH: A uniform stream, channel, or pipe that conveys ater from one point to another reach or pond. The outflow	The Dubay Group, Inc. 84 Range Road
each reach is determined by a hydrograph routing Ilculation. DND: A pond, swamp, dam, or other impoundment that fills th water from one or more sources and empties in a	Windham, NH 03087 603-458-6462
anner determined by a weir, culvert, or other device(s) at its itlet. The outflow(s) of each pond is determined by a rdrograph routing calculation. The primary and/or secondary itflow may drain into a reach or into another pond.	Engineers Planners Surveyors
NK: A method of interconnecting several hydrographs which ay converge together at a common analysis point.	TheDubayGroup.com
	1 INCH = 30 FEET
Limits of	
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	DRAWN BY: JMM CHECKED BY: DM DATE: JAN. 29, 2018
	SCALE: 1"=30' FILE: PRE-DEVELOP DEED REF: -
	PROJECT:
INV.OUT = 361.42	TONELLA HILL TOWNHOMES TONELLA ROAD MILFORD, NH 03055
	FOR
	JESSICA HUDSON
	614 NASHUA ST. SUITE 127 MILFORD, NH 03055
	SHEET TITLE:
	PRE-DEVELOPMENT WATERSHED PLAN
	PROJECT #122 SHEET 14 of 15

