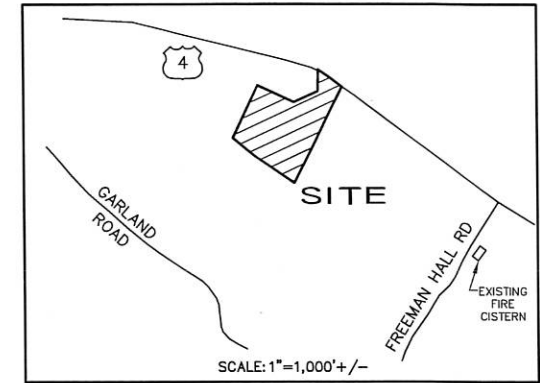


GENERAL NOTES:

- PROPERTY BOUNDARY WAS DERIVED FROM PLAN # D-32352 RECORDED AT THE R.C.R.D.
- OWNER OF RECORD:
MAP 3, LOT 2-2
SHEA CONCRETE PRODUCTS
160 OLD TURNPIKE ROAD, NOTTINGHAM, NH
- SITE LIES IN THE ROUTE 4 COMMERCIAL/INDUSTRIAL ZONING DISTRICT:
BUILDING SETBACKS:
RESIDENTIAL = 50' FROM ALL BOUNDARY LINES
COMMERCIAL = 100'
INDUSTRIAL = 150'
- WETLANDS WERE DELINEATED BY TIMOTHY FERWERDA OF MERIDIAN LAND SERVICES, INC.
- EXISTING USE IS A FORMED CONCRETE PRODUCTS FACILITY. PROPOSED USE IS SAME.
- PROPERTY IS NOT LOCATED WITHIN A FLOOD HAZARD AREA. PER MAP #33015C00115E NUMBER 330137 PANEL 0115 SUFFIX E.
- REFERENCE DEED BK 4181 PG 1231 AT THE RORD FOR ACCESS EASEMENT TO PARCEL MAP 3, LOT 2.

SHEET INDEX

- | | |
|---|----------------------|
| 1 | EXISTING CONDITIONS |
| 2 | SITE PLAN |
| 3 | CONSTRUCTION DETAILS |



VICINITY PLAN

LOT PLAN
SCALE: 1"=300'

THE WETLANDS WERE FLAGGED ACCORDING TO THE 1987 CORPS ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1. THE WETLANDS WERE CLASSIFIED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE USFWS "METHODOLOGY FOR THE CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS", 1987. THE PLANTS WERE CLASSIFIED USING THE 1988 USFWS NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS (REGION 1). THE SOILS WERE EVALUATED IN ACCORDANCE WITH THE PUBLICATION "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 2", JULY 1998.

DATE _____ CERTIFIED WETLAND SCIENTIST _____

LEGEND:

- #1/292 UTILITY POLE
- DRAINAGE FLOW
- 4X4 GRAN. BND.
- STONE WALL
- WOOD FENCE
- WELL
- EDGE WET
- TREELINE
- 90 10 FT CONTOUR
- 92 2 FT CONTOUR
- RIP-RAP

EXISTING CONDITIONS SURVEY WAS PERFORMED BY PROJECT SURVEYOR: JAMES M. LAVELLE, LLS, 2 STARWOOD DRIVE, HAMPSHIRE, NH 03841. BOUNDARY INFORMATION WAS TAKEN FROM PLAN PREPARED BY BROWN ENGINEERING FOR CPL REALTY TRUST DATED NOVEMBER 12, 2004 AND RECORDED AT THE REGISTRY OF DEEDS AS PLAN D-32352

DATE _____ LICENSED LAND SURVEYOR _____

PERMIT PROCESS		REVISIONS	
DESCRIPTION	DATE	NO.	DESCRIPTION
SUBMISSION			
PUBLIC HEARING			
CLOSE HEARING			
DECISION FILED			
PLAN NO.			

EXISTING CONDITIONS
TAX MAP 3, PARCEL 2-2
PROPOSED SITE IMPROVEMENTS
SHEA CONCRETE PRODUCTS
U.S. ROUTE 4 (160 OLD TURNPIKE ROAD)
NOTTINGHAM, NH

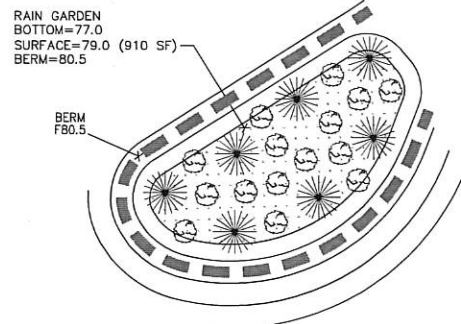
PREPARED FOR:
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C/O GREG STRATIS
P.O. BOX 807
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NOTTINGHAM SHEA REALTY, INC.
P.O. BOX 520
WILMINGTON, MA 01887

PREPARED BY DESIGN ENGINEER
GREGSAK ENGINEERING, INC.

CIVIL AND STRUCTURAL ENGINEERS
P.O. BOX 271
CHESTER, NEW HAMPSHIRE 03036
PH: (603) 887-6979
FAX: (603) 887-6636
www.gregsak.com

REGISTRATION

SEPT. 1, 2016
SCALE
1"=50'
SHEET 1 OF 3
JOB # 2462



3" MULCH COVER TO BE WELL-AGED SHREDDED BARK MULCH (UNIFORM IN COLOR, FREE OF FOREIGN PLANT MATERIAL) WITHIN RAIN GARDEN AND BELOW BERM ELEVATION

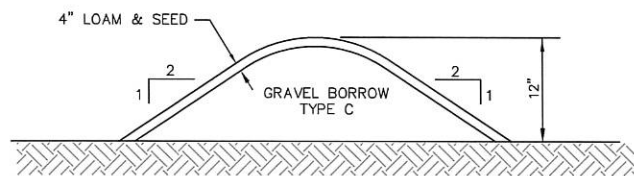
SHRUBS TO BE 5 GALLON CONT. MINIMUM PLANT A MIX OF BLACK CHOKEBERRY, MOUNTAIN LAUREL, RED-TWIGGED DOGWOOD, WINTERBERRY, WITCH HAZEL, RHODORA, PUSSY WILLOW AND COMMON LILAC WITHIN RAIN GARDEN. A MINIMUM OF 15 SHRUBS ARE TO BE PLANTED, RANDOMLY SPACED

TREES TO BE 3" CALIPER MIN. AND TO CONSIST OF LOCAL NATIVE SPECIES. A MINIMUM OF 7 TREES ARE TO BE PLANTED, RANDOMLY SPACED. PLANT A MIX OF LOW GROWING TREES SUCH AS SHADBLOW SERVICEBERRY, WHITE PAPER BIRCH, RED SWAMP MAPLE AND EASTERN HEMLOCK WITH A FULL MATURE HEIGHT OF APPROXIMATELY 20-30 FEET WITHIN THE RAIN GARDEN.

THE REMAINING AREAS SHOULD BE FILLED WITH NATURAL DROUGHT RESISTANT (NON-INVASIVE SPECIES) OF PERENNIAL PLANTS, RANDOMLY PLACED (SEE TEXT REFERENCE ON THIS SHEET)

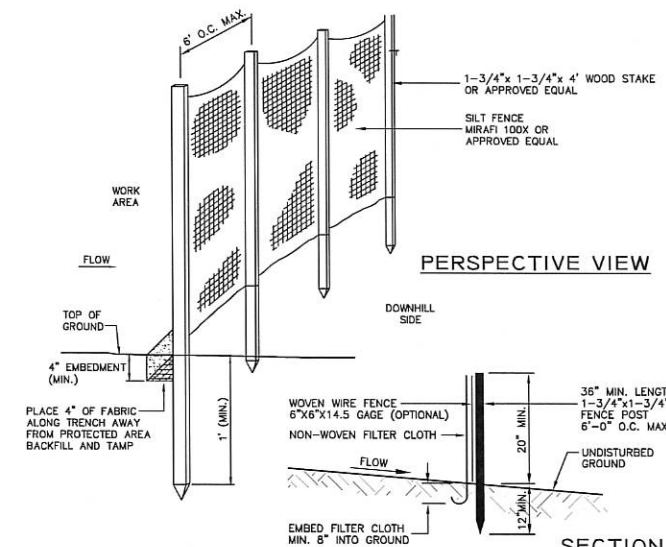
PLANTING DETAIL

NOT TO SCALE



EARTHEN BERM DETAIL

NOT TO SCALE



MAINTENANCE

- SILT FENCES ARE TO BE INSPECTED IMMEDIATELY AFTER EVERY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF OF THE BARRIER.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED, SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT FENCE DETAIL

NOT TO SCALE

SEEDING SPECIFICATIONS

MIXTURE	POUNDS/ACRE	POUNDS/1,000 SF
TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
BIRDSFOOT TREFLOIL	8	0.20
TOTAL	48	1.10

- SEEDBED PREPARATION**
 - SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
 - STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT FOUR INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
- ESTABLISHING A STAND**
 - LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
 - AGRICULTURAL LIMESTONE: 2 TONS PER ACRE OR 0.09 LBS. PER SQ. FT.
 - NITROGEN (N): 50 LBS. PER ACRE OR 1.1 LBS. PER 1000 SQ. FT.
 - PHOSPHATE (P₂O₅): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.
 - POTASH (K₂O): 100 LBS. PER ACRE OR 2.2 LBS. PER 1000 SQ. FT.
 - (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10)
 - SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH 0.25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
 - REFER TO TABLE 7-35 OF "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE" FOR APPROPRIATE SEED MIXTURES AND TABLE 7-36 FOR RATES OF SEEDING. ALL LEGUMES (CROWNVEITCH, BIRDSFOOT TREFLOIL, AND FLATPEA), MUST BE INOCULATED WITH THEIR SPECIFIC INNOCULANT.
 - WHEN SEEDING AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDING AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
- MULCH**
 - STRAW, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
 - MULCH WILL BE HELD IN PLACE USING TECHNIQUES FROM THE "BEST MANAGEMENT PRACTICE FORBULCHING", AS SHOWN IN, "STORMWATER MANAGEMENT AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".
- MAINTENANCE TO ESTABLISH A STAND**
 - PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
 - FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
 - IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

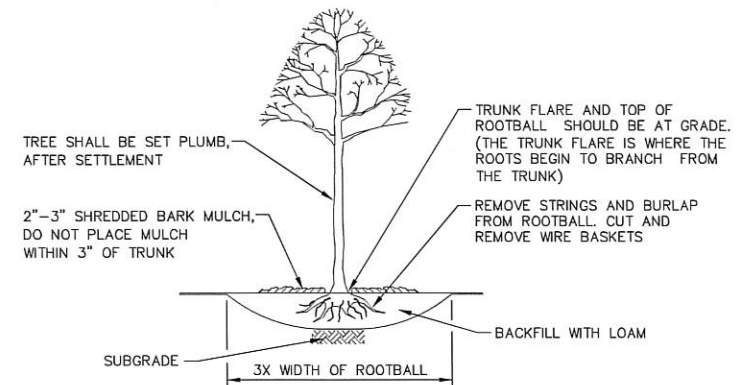
EROSION CONTROL NOTES

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS (EPA, NHDES AND TOWN REGULATIONS). THE GENERAL NOTES AND DETAILS CONTAINED IN THIS PLAN SERVE AS A GUIDE ONLY.

- PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS. INSTALLATION OF STRAWBALE BARRIERS AND SILTATION FENCES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY SPECIFIC AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- STRAWBALE BARRIERS AND SILTATION FENCES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATIVE COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES
- EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
- 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 ROADWAYS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE. CUT AND FILL SLOPES SHALL BE LOAMED & SEEDED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE. TEMPORARY AND/OR PERMANENT STABILIZATION SHALL BE INSTALLED WITHIN 60 DAYS OF INITIAL CONSTRUCTION. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED
- TIME LIMIT: ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM INSTALLED WITH NOT LESS THAN 1.1 POUNDS OF SEED MIX PER 1,000 SQ. FT. SEE SEEDING SPECIFICATIONS ON THIS SHEET
- LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
- STRAW MULCH OR JUTE MATTING SHALL BE USED IF/WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDING AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDING AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.

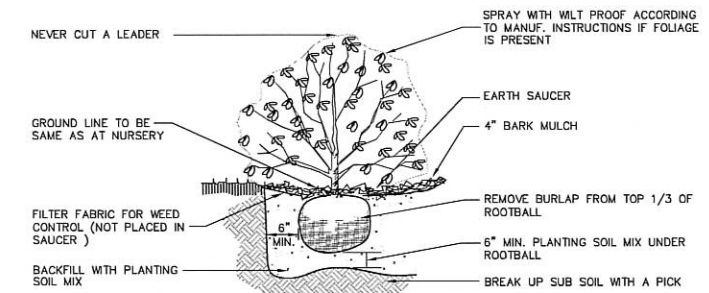
WINTER (COLD WEATHER) CONSTRUCTION NOTES

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.



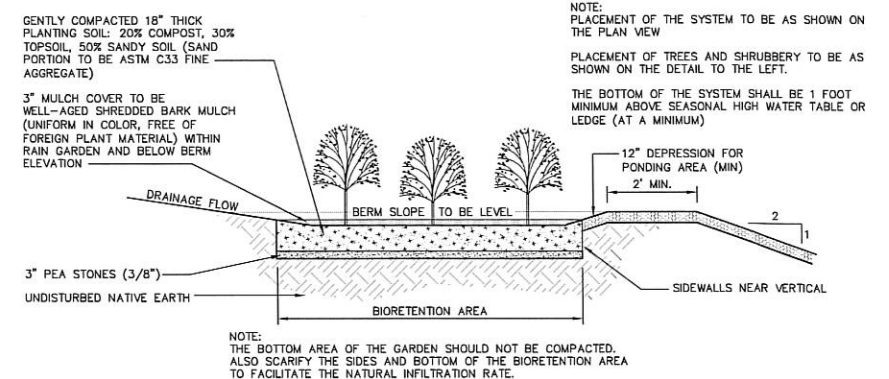
TREE PLANTING

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE



BIORETENTION AREA RAIN GARDEN DETAIL

NOT TO SCALE

PERMIT PROCESS			REVISIONS		
DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	
SUBMISSION					
PUBLIC HEARING					
CLOSE HEARING					
DECISION FILED					
PLAN NO.					

CONSTRUCTION DETAILS

TAX MAP 3, PARCEL 2-2

PROPOSED SITE IMPROVEMENTS

SHEA CONCRETE PRODUCTS

U.S. ROUTE 4 (160 OLD TURNPIKE ROAD)

NOTTINGHAM, NH

PREPARED FOR:

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C/O GREG STRATIS

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PH: (603) 887-6979

FAX: (603) 887-6636

WWW.GREGSAK.COM

REGISTRATION

STATE OF NEW HAMPSHIRE

WILLIAM M. GREGSAK

6696

SEPT. 1, 2016

SCALE AS NOTED

SHEET 3 OF 3

JOB # 2462