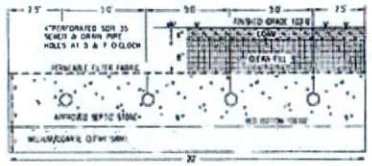


CDA CROSS SECTION
(NOT TO SCALE)

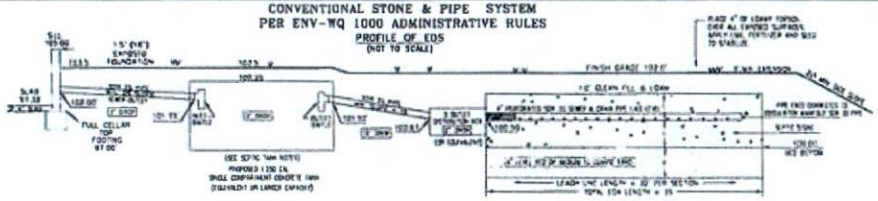
WASHED NO-DUST TO COARSE CONCRETE SAND OR EQUIV MINIMUM 3% FINES PASSING A #200 SIEVE, EFFECTIVE SIZE 0.35 TO 2.0 mm AND NO PARTICLES LARGER THAN 3/4 INCH. APPROVED SEPTIC STONE SHALL BE 1.5" STONE WITH A RANGE OF .75" TO 2.5" AND BE FREE OF FINES. APPROVED SEPTIC STONE SHALL MEET THE SIEVE SIZE AND PERCENT PASSING BY WEIGHT REQUIREMENTS IN ACCORDANCE WITH ASSHTO 1716 CRITERIA, TEST METHOD T 11-85 WHICH APPLIES TO SEPTIC STONE AVAILABLE FOR RETAIL PURCHASE.

SOIL TYPE
315A NASHPEE SAND
0 TO 5% SLOPES
SOURCE
NRCS WEB SOIL SURVEY
PERCOLATION TEST DATA
SITE TEST CONDUCTED 03/26/2021
6 MIN /INCH @ 21"
BED SIZE FOR STONE & PIPE PER ENV-WQ 1000 RULES
NO OF BEDROOMS
3 BEDROOM RESIDENTIAL DWELLING
PROPOSED DAILY FLOW 450 GPD
450 GPD @ 5 MIN /IN = 675 S.F. REQUIRED PER ENV-WQ 1016
PROVIDE 700 S.F. IN AN CDA BED 20' X 35' (4 LINES 5.0 O.C.)
LOT SIZE CALCULATIONS ENV-WQ 1003.04
MIN LOT SIZE = 450gpd / 2000 X (1.6 FACTOR, CATEGORY 3 SOIL)
0.36 AC REQUIRED > 0.50 AC EXISTING EXCLUDING WETLANDS POORLY & VERY POORLY DRAINED SOILS EXCESSIVE SLOPES AND THE PROTECTIVE WELL RADII

TEST PIT : DATE: 03/26/2021
0" - 4" OF SHRUBS
8" - 12" 10YR3/3 VERY DARK GRAYISH BROWN FINE SANDY LOAM MOIST WEAK FINE GRANULAR VERY FRIABLE
12" - 25" 2.5YR5/6 LIGHT OLIVE BROWN LOAMY FINE SAND MOIST GRANULAR FRIABLE
25" - 31" 2.5YR5/4 LIGHT OLIVE BROWN LOAMY FINE SAND MOIST GRANULAR FRIABLE
31" - 51" 2.5YR5/4 LIGHT OLIVE BROWN SILTY LOAMY FINE SAND MOIST PRISMATIC FIRM IN PLACE FRIABLE IN HAND
ACTUAL = N/O
PERCOLATION RATE = 6 MIN/IN @ 21"

CONVENTIONAL STONE & PIPE SYSTEM PER ENV-WQ 1000 ADMINISTRATIVE RULES

PROFILE OF EDS
(NOT TO SCALE)



INCHES TO DECIMALS OF A FOOT

1/16 = .0625	1" = .0833'
1/32 = .0313	1" = .164'
1/8 = .125	3" = .250'
3/16 = .1875	4" = .333'
1/4 = .250'	5" = .417'
3/8 = .375'	7" = .583'
1/2 = .500'	8" = .667'
5/8 = .625'	9" = .750'
3/4 = .750'	10" = .833'
7/8 = .875'	11" = .917'

LEGEND:

- 100 EXISTING CONTOUR
- 100 PROPOSED CONTOUR
- TBM TEMPORARY BENCHMARK
- PROPOSED WELL
- TEST PIT/PERC TEST
- 123 LOT — TAX PARCEL IDENTIFIER
- HARDWOOD TREES

GENERAL NOTES

1. THIS PLAN IS NOT TO BE CONSTRUED AS A REAL PROPERTY SURVEY. NOR DID THE SURVEY DATA SHOWN HEREON PERFORMED BY A LICENSED SURVEYOR
2. SITE(S) SHOWN HERE TO BE REALIZED IN PLACE IF FEASIBLE DESIGN
3. ALL SYSTEMS MUST COMPLY TO STATUTORY REQUIREMENTS OF RSA 485-A. THE INSTALLER IS RESPONSIBLE FOR VERIFYING SITE CONDITIONS. ANY DISCREPANCIES IN THE APPROVED PLAN AND THE ACTUAL SITE CONDITIONS MUST BE REPORTED BY THE INSTALLER TO THE DESIGNER PRIOR TO CONSTRUCTION. DEVIATIONS IN THE PLANS DO NOT RELIEVE INSTALLER OF RESPONSIBILITIES
4. SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES CHAPTER ENV-Wq 1000
5. PIPE TRENCHES SHALL BE FREE OF WATER DURING PIPE LAYING. DO NOT PLACE ANY PIPE IN WATER. PROVIDE SUMP PUMPS AS NECESSARY TO KEEP TRENCHES DRY. PIPE SHALL BE PLACED ON STABLE SOIL. DO NOT PLACE PIPE ON FROZEN SOIL. DO NOT BACKFILL WITH FROZEN MATERIALS. DO NOT PLACE ANY VEHICLE OVER SYSTEM UNTIL SUFFICIENT COMPACT FILL HAS BEEN PLACED. DO NOT ERECT STRUCTURES OR PLACE PLUMBING OVER SYSTEM
6. FOR MAINTENANCE PROCEDURES SEE NH DEES SURVEY AND POLLUTION CONTROL DIVISION'S PAMPHLET "YOU AND YOUR SEPTIC SYSTEM"

DESIGN NOTES

1. THE ENTIRE SYSTEM MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE APPROVED PLAN. ANY CHANGES MUST BE APPROVED BY THE DESIGNER BEFORE CONSTRUCTION BEGINS
2. ANY DISCREPANCIES BETWEEN THE APPROVED PLAN AND THE ACTUAL SITE CONDITIONS MUST BE REPORTED TO THE DESIGNER BY THE INSTALLER PRIOR TO CONSTRUCTION
3. THIS SYSTEM IS NOT DESIGNED FOR USE WITH GARBAGE GRINDER WATER CONDITIONER INSTALLATION OR HIGH VOLUME TUB USE
4. IF A WATER CONDITIONER IS INSTALLED THE BACKWASH LINE IS TO BE RUN TO AN INDEPENDENT UNILTRATION PROVISION SUCH AS A DRYWELL TO 30 MIN FROM THE EFFLUENT FIELD
5. VENTING IS NOT MADE PART OF THIS DESIGN
6. DESIGN LIMITATIONS. THE BOTTOM OF THE EFFLUENT DISPOSAL AREA (EDA) SHALL BE CONSTRUCTED AT 100.00' ELEVATION. THE SYSTEM BOTTOM IS 1.5 ABOVE ORIGINAL GROUND ON THE HIGH CONTOUR
   98.5 OF THE DESIGNED EFFLUENT DISPOSAL AREA
   SEPARATION TO THE SHWT ON THE HIGH CONTOUR 98.5 = 49.0"
   SEPARATION TO THE SHWT ON THE LOW CONTOUR 97.5 = 61.00

CONSTRUCTION NOTES

1. INSTALLATION GUIDELINES IN PER ANDES CODE OF ADMINISTRATIVE RULES ENV-WQ 1000 PART ENV-WQ 1010
2. EXCAVATE EFFLUENT DISPOSAL AREA AND SCARIFY SOIL TO 1.0 BELOW DESIGN BED BOTTOM PLACE SPECIFIED SAND TO 6" BELOW BED BOTTOM
3. BOTTOM OF LEACH FIELD TO BE LEVEL AND PIPE ELEVATIONS SHALL BE IN ACCORDANCE WITH THE DESIGN SCHEMATICS
4. PIPES FROM DISTRIBUTION BOX OUTLETS TO DISTRIBUTION PIPES SHALL BE SCH 40 SDR-35 SEWER & DRAIN PIPE
5. RAISED EDA TO HAVE MIN 3' FILL EXTENSIONS AND MIN 2/1 SIDE SLOPES
6. BOULDERS TO BE REMOVED FROM FILL EXTENSIONS
7. PROVIDE FOR SURFACE DRAINAGE AWAY FROM THE EDA
8. MINIMUM OF 4" OF TOPSOIL OVER SYSTEM, FERTILIZE AND SEED TO STABILIZE. FILL MATERIAL TO BE CLEAN SOIL FREE OF HUMUS, BRIEBONES OR STONES MORE THAN 8" IN ANY DIMENSION

SEPTIC TANK NOTES

1. TANK TO BE FITTED WITH RUBBER INLET & OUTLET SEALING BOOTS. SEWER LINE TO TANK INLET AND TANK OUTLET TO BE 4" SCH 35
2. PER ENV-WQ 1010.02 INLET & OUTLET BAFFLES SHALL BE SECURED TO THE INLET & OUTLET PIPES USING STAINLESS STEEL SCREWS. INLET BAFFLES THAT EXTEND ABOVE THE LIQUID LEVEL SHALL NOT BE LESS THAN 1" FROM THE INTERIOR TOP OF THE SEPTIC TANK COVER. THE BOTTOM OF THE INLET BAFFLE SHALL BE AT LEAST 8" BELOW THE LIQUID LEVEL BUT AT NO TIME GREATER THAN THE DEPTH OF THE OUTLET BAFFLE
3. PER ENV-WQ 1010.05 (e) TANK COVERS AT GRADE SHALL BE MECHANICALLY FASTENED USING STAINLESS STEEL SCREWS TO PREVENT UNAUTHORIZED INADVERTENT OPENING
4. TANK TO MEET ALL OTHER APPLICABLE PROVISIONS PER ENV-WQ 1010

TEMPORARY BENCHMARKS (TBM) WERE ESTABLISHED BY DIFFERENTIAL LEVELING USING A TOTAL STATION SURVEY INSTRUMENT

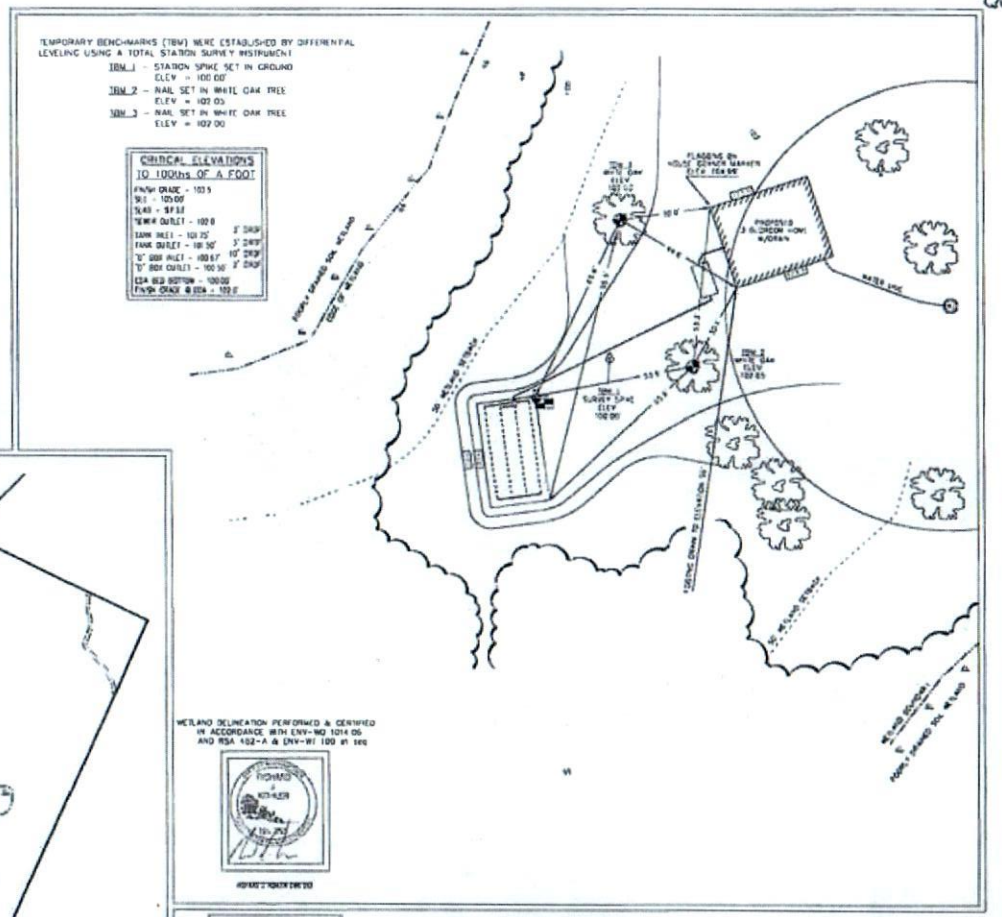
TBM 1 - STATION SPIKE SET IN GROUND
ELEV = 100.00'

TBM 2 - NAIL SET IN WHITE OAK TREE
ELEV = 102.03

TBM 3 - NAIL SET IN WHITE OAK TREE
ELEV = 102.00

CRITICAL ELEVATIONS TO 100ths OF A FOOT

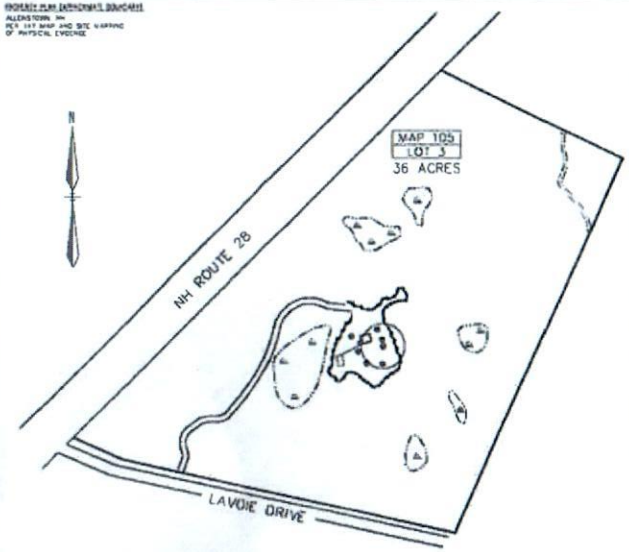
FINISH GRADE - 103.5	
TBM - 105.00'	
BLDG - 97.83'	
SEWER OUTLET - 102.0	
TANK INLET - 101.75'	3" DROP
TANK OUTLET - 101.50'	3" DROP
"B" BOX INLET - 100.67'	10" DROP
"B" BOX OUTLET - 100.50'	3" DROP
EDA BED BOTTOM - 100.00	
FINISH GRADE @ EDA - 102.0'	



WETLAND DELINEATION PERFORMED & CERTIFIED IN ACCORDANCE WITH ENV-WQ 1014.06 AND RSA 482-A & ENV-WT 100 et seq

RICHARD J. KOHLER
CERTIFIED WETLAND SCIENTIST #282

PROPERTY PLAN DIMENSIONS BOUNDARIES
ALLENSTOWN, NH
PER TAX MAP AND SITE MAPPING
OF PHYSICAL EVIDENCE



SCALE 1" = 200'

NO ABUTTING HOUSE, SYSTEM OR WELL WITHIN 75' OF DESIGN EDS

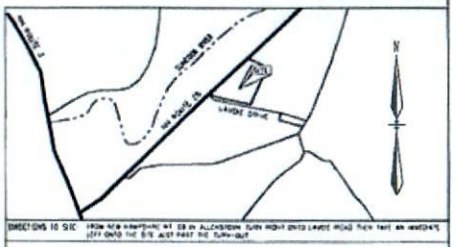
NO POORLY DRAINED SOIL WETLAND WITHIN 50' OF DESIGN EDS

NO VPDS WETLAND OR SURFACE WATER WITHIN 75' OF DESIGN EDS

SCALE 1"=20'

INITIALS	REVISION DESCRIPTION	DATE

PLAN REVISIONS



DIRECTIONS TO SITE: FROM NEW HAMPSHIRE RT 28 IN ALLENSTOWN SUN MOUNT DRIVE LAVOIE ROAD THEN TURN ON HEADING LEFT ONTO THE SITE JUST PAST THE TURN-OUT

PLAN OF SITE DEVELOPMENT & EFFLUENT DISPOSAL SYSTEM

OWNER:
PAUL STAUFFACHER
730 BOROUGH RD
PEMBROKE, N.H. 03275

SITE:
MAP 105 LOT 3
NH RT 28
ALLENSTOWN, NH

SUBDIVISION APPROVAL:
GREATER THAN 5 ACRES
CONSTRUCTION APPROVAL:
#5A2021
OPERATION APPROVAL DATE
/ 2021

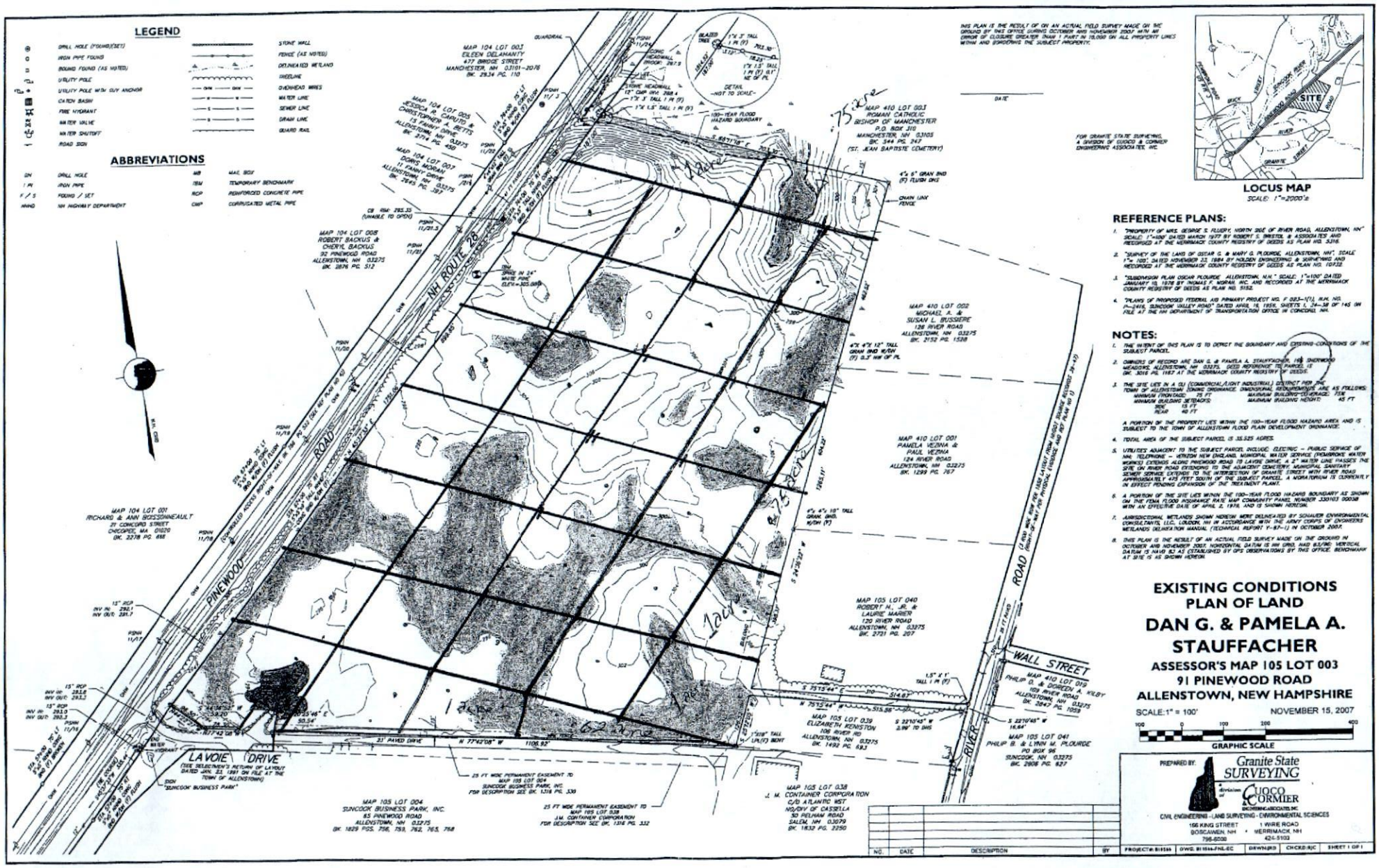
PREPARED FOR:
MC ELLIOTT CO
PINE ECHO ROAD
NEW BOSTON, NH

PLAN DATE: 03/26/2021

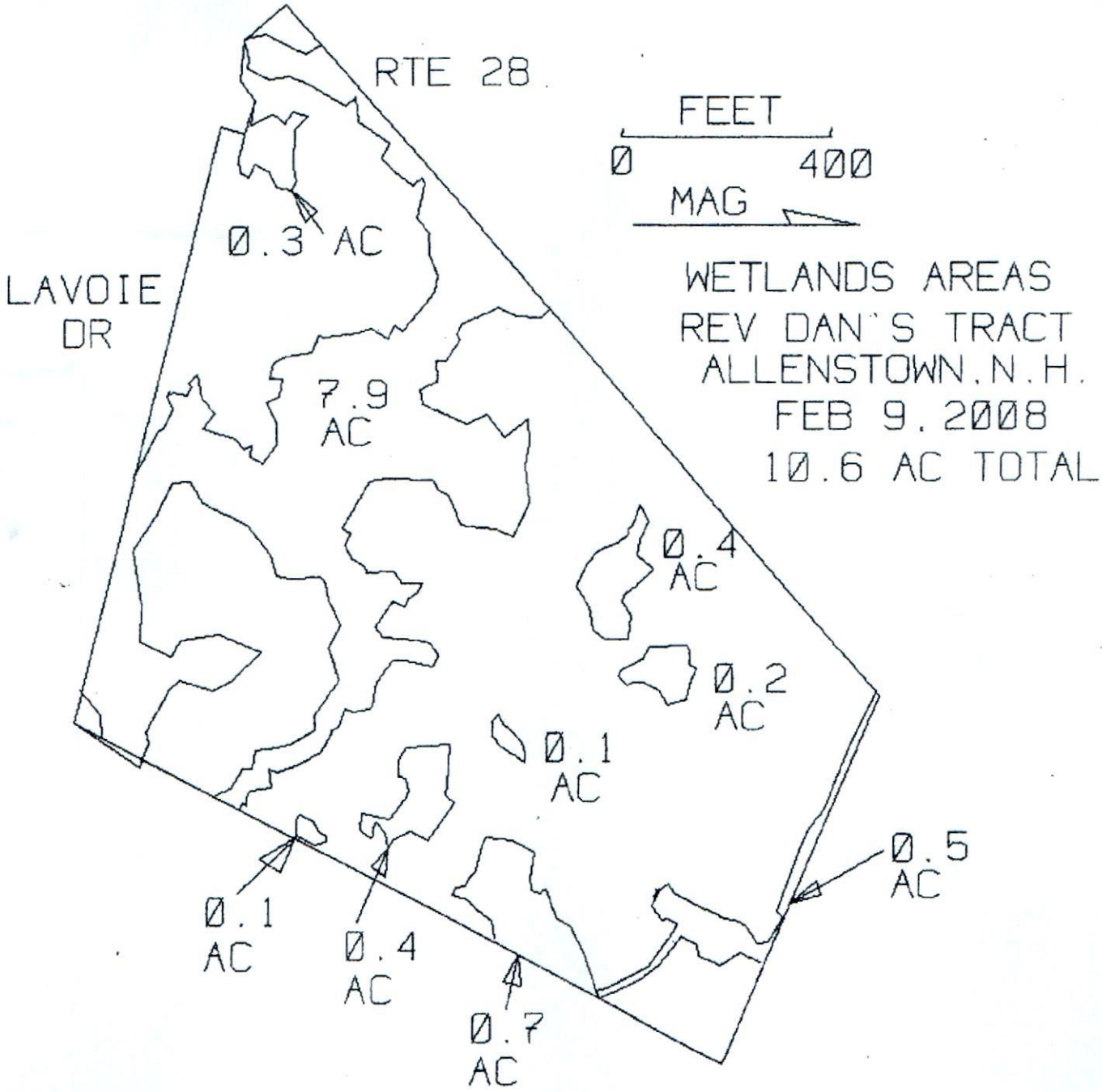
KOHLER ENVIRONMENTAL, LLC

RICHARD J. KOHLER
LAND USE CONSULTANT
PO BOX 282 New Boston NH
Professional Surveyor/ Septic Designer
Land Use Planning & Permitting

CERTIFIED WETLAND SCIENTIST #282
LICENSED SUB-SURFACE SYSTEM DESIGNER #1582


LEGEND
DRILL HOLE (FOUND/SET)
IRON PIPE FOUND
BOUND FOUND (AS NOTED)
UTILITY POLE
UTILITY POLE WITH GUY ANCHOR
CATCH BASIN
FIRE HYDRANT
WATER VALVE
WATER SHUTOFF
ROAD SIGN
STONE WALL
FENCE (AS NOTED)
DELINEATED WETLAND
TREELINE
OVERHEAD WIRES
WATER LINE
SEWER LINE
DRAIN LINE
GUARD RAIL
ABBREVIATIONS
DH DRILL HOLE
I.P. IRON PIPE
F / S FOUND / SET
NHHD NH HIGHWAY DEPARTMENT
MB MAIL BOX
TBM TEMPORARY BENCHMARK
RCP REINFORCED CONCRETE PIPE
CMP CORRUGATED METAL PIPE
MAP 104 LOT 003
EILEEN DELAHANITY
477 BRIDGE STREET
MANCHESTER, NH 03101-2076
BK. 2934 PG. 110
MAP 104 LOT 005
JESSICA A. CAPUTO &
CHRISTOPHER A. BETTS
13 FAIRWAY DRIVE
ALLENSTOWN, NH 03275
BK. 3214 PG. 350
MAP 104 LOT 007
DORRIS MORAN
11 FAIRWAY DRIVE
ALLENSTOWN, NH 03275
BK. 2643 PG. 397
MAP 104 LOT 008
ROBERT BACKUS &
CHERYL BACKUS
92 PINEWOOD ROAD
ALLENSTOWN, NH 03275
BK. 2876 PG. 312
MAP 104 LOT 001
RICHARD & ANN BOISSONNEAULT
21 CONCORD STREET
CHICOPEE, MA 01020
BK. 3278 PG. 688
MAP 410 LOT 003
ROMAN CATHOLIC
BISHOP OF MANCHESTER
P.O. BOX 310
MANCHESTER, NH 03105
BK. 344 PG. 247
(ST. JEAN BAPTISTE CEMETERY)
MAP 410 LOT 002
MICHAEL A. &
SUSAN L. BUSSIERE
126 RIVER ROAD
ALLENSTOWN, NH 03275
BK. 2152 PG. 1538
MAP 410 LOT 001
PAMELA VEZINA &
PAUL VEZINA
124 RIVER ROAD
ALLENSTOWN, NH 03275
BK. 1299 PG. 767
MAP 105 LOT 040
ROBERT H., JR. &
LAURIE MARIER
120 RIVER ROAD
ALLENSTOWN, NH 03275
BK. 2721 PG. 207
MAP 105 LOT 039
ELIZABETH KENISTON
106 RIVER RD
ALLENSTOWN, NH 03275
BK. 1492 PG. 693
MAP 105 LOT 038
J. M. CONTAINER CORPORATION
C/O ATLANTIC MST.
HQ/DIV OF CASSELLA
50 PELHAM ROAD
SALEM, NH 03079
BK. 1832 PG. 3250
MAP 105 LOT 041
PHILIP B. & LYNN M. PLOURDE
PO BOX 96
SUNCOOK, NH 03275
BK. 2908 PG. 627
MAP 410 LOT 019
PHILIP G. & DEREEN A. KILBY
109 RIVER ROAD
ALLENSTOWN, NH 03275
BK. 3247 PG. 1059
MAP 105 LOT 004
SUNCOOK BUSINESS PARK, INC.
85 PINEWOOD ROAD
ALLENSTOWN, NH 03275
BK. 1829 PGS. 756, 759, 762, 765, 768
NH ROUTE 28
PINEWOOD ROAD
RIVER ROAD
WALL STREET
LA VOIE DRIVE
21' PAVED DRIVE
N 77°42'08" W 1106.93'
25 FT WIDE PERMANENT EASEMENT TO MAP 105 LOT 004 SUNCOOK BUSINESS PARK, INC. FOR DESCRIPTION SEE BK. 1316 PG. 330
25 FT WIDE PERMANENT EASEMENT TO MAP 105 LOT 038 J.M. CONTAINER CORPORATION FOR DESCRIPTION SEE BK. 1316 PG. 332
DETAIL
~NOT TO SCALE~
100-YEAR FLOOD HAZARD BOUNDARY
CHAIN LINK FENCE
GUARDRAIL
THIS PLAN IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND BY THIS OFFICE DURING OCTOBER AND NOVEMBER 2007, WITH AN ERROR OF CLOSURE GREATER THAN 1 PART IN 15,000 ON ALL PROPERTY LINES WITHIN AND BOUNDING THE SUBJECT PROPERTY.
FOR GRANITE STATE SURVEYING, A DIVISION OF CUOCO & CORMIER ENGINEERING ASSOCIATES, INC.
SITE
BRIDGE STREET
PINEWOOD ROAD
RIVER ROAD
GRANITE STREET
LOCUS MAP
SCALE: 1"=2000'±
REFERENCE PLANS:
1. "PROPERTY OF MRS. GEORGE S. FLUGRY, NORTH SIDE OF RIVER ROAD, ALLENSTOWN, NH" SCALE: 1"=100' DATED MARCH 1977 BY ROBERT S. BRISTOL & ASSOCIATES, AND RECORDED AT THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN NO. 3316.
2. "SURVEY OF THE LAND OF OSCAR G. & MARY G. PLOURDE, ALLENSTOWN, NH", SCALE 1"= 100', DATED NOVEMBER 22, 1984 BY HOLDEN ENGINEERING & SURVEYING AND RECORDED AT THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN NO. 10732.
3. "SUBDIVISION PLAN OSCAR PLOURDE, ALLENSTOWN, N.H." SCALE: 1"=100' DATED JANUARY 10, 1978 BY THOMAS F. MORAN, INC. AND RECORDED AT THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN NO. 5152.
4. "PLANS OF PROPOSED FEDERAL AID PRIMARY PROJECT NO. F 083-1(1), W.P. NO. P-7918, SUNCOOK VALLEY ROAD" DATED APRIL 14, 1936, SHEETS 1, 24-34 OF 145 ON FILE AT THE NH DEPARTMENT OF TRANSPORTATION OFFICE IN CONCORD, NH.
NOTES:
1. THE INTENT OF THIS PLAN IS TO DEPICT THE BOUNDARY AND EXISTING CONDITIONS OF THE SUBJECT PARCEL.
2. OWNERS OF RECORD ARE DAN G. & PAMELA A. STAUFFACHER, 169 SNOWWOOD MEADOWS, ALLENSTOWN, NH 03275. DEED REFERENCE TO PARCEL IS BK. 3016 PG. 1167 AT THE MERRIMACK COUNTY REGISTRY OF DEEDS.
3. THE SITE LIES IN A GU (COMMERCIAL/LIGHT INDUSTRIAL) DISTRICT PER THE TOWN OF ALLENSTOWN ZONING ORDINANCE. DIMENSIONAL REQUIREMENTS ARE AS FOLLOWS:
MINIMUM FRONTAGE: 75 FT
MINIMUM BUILDING SETBACKS:
SIDE: 15 FT
REAR: 40 FT
MAXIMUM BUILDING COVERAGE: 75%
MAXIMUM BUILDING HEIGHT: 45 FT
A PORTION OF THE PROPERTY LIES WITHIN THE 100-YEAR FLOOD HAZARD AREA, AND IS SUBJECT TO THE TOWN OF ALLENSTOWN FLOOD PLAIN DEVELOPMENT ORDINANCE.
4. TOTAL AREA OF THE SUBJECT PARCEL IS 35.525 ACRES.
5. UTILITIES ADJACENT TO THE SUBJECT PARCEL INCLUDE: ELECTRIC – PUBLIC SERVICE OF NH; TELEPHONE – VERIZON NEW ENGLAND; MUNICIPAL WATER SERVICE (PENNICHUCK WATER WORKS) EXTENDS ALONG PINEWOOD ROAD TO LAVOIE DRIVE, A 2" WATER LINE PASSES THE SITE ON RIVER ROAD EXTENDING TO THE ADJACENT CEMETERY; MUNICIPAL SANITARY SEWER SERVICE EXTENDS TO THE INTERSECTION OF GRANITE STREET WITH RIVER ROAD APPROXIMATELY 470 FEET SOUTH OF THE SUBJECT PARCEL. A VOMATORIUM IS CURRENTLY IN EFFECT PENDING EXPANSION OF THE TREATMENT PLANT.
6. A PORTION OF THE SITE LIES WITHIN THE 100-YEAR FLOOD HAZARD BOUNDARY AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 330163 0005B WITH AN EFFECTIVE DATE OF APRIL 2, 1978, AND IS SHOWN HEREON.
7. JURISDICTIONAL WETLANDS SHOWN HEREON WERE DELINEATED BY SCHAUER ENVIRONMENTAL CONSULTANTS, LLC, LONDON, NH IN ACCORDANCE WITH THE ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL TECHNICAL REPORT Y-87-1) IN OCTOBER 2007.
8. THIS PLAN IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND IN OCTOBER AND NOVEMBER 2007. HORIZONTAL DATUM IS NH GRID, NAD 83/96; VERTICAL DATUM IS NAVD 83 AS ESTABLISHED BY GPS OBSERVATIONS BY THIS OFFICE. BENCHMARK AT SITE IS AS SHOWN HEREON.
EXISTING CONDITIONS
PLAN OF LAND
DAN G. & PAMELA A.
STAUFFACHER
ASSESSOR'S MAP 105 LOT 003
91 PINEWOOD ROAD
ALLENSTOWN, NEW HAMPSHIRE
SCALE:1" = 100'
NOVEMBER 15, 2007
GRAPHIC SCALE
PREPARED BY:
Granite State SURVEYING
a division of CUOCO & CORMIER ENGINEERING ASSOCIATES, INC.
CIVIL ENGINEERING - LAND SURVEYING - ENVIRONMENTAL SCIENCES
156 KING STREET BOSCAWEN, NH 796-2038
1 WIRE ROAD MERRIMACK, NH 424-5103
NO. DATE DESCRIPTION BY
PROJECT#: B1556 DWG: B1556-FNL.EC DRWN:JRD CHKD:RJC SHEET 1 OF 1

ALLENS68


RTE 28
FEET
0
400
MAG
WETLANDS AREAS
REV DAN'S TRACT
ALLENSTOWN, N.H.
FEB 9, 2008
10.6 AC TOTAL
LAVOIE
DR
0.3 AC
7.9
AC
0.4
AC
0.2
AC
0.1
AC
0.5
AC
0.1
AC
0.4
AC
0.7
AC