

Site Plans

Issued for: **RIDEM Approval**

Date Issued: July 21, 2009

Latest Issue: July 21, 2009

Sheet Index

Number	Drawing Title	Latest Issue
C-1	Legend, General Notes, and Details	7/21/2009
C-2	Proposed Irrigation System Plan and Profile	7/21/2009

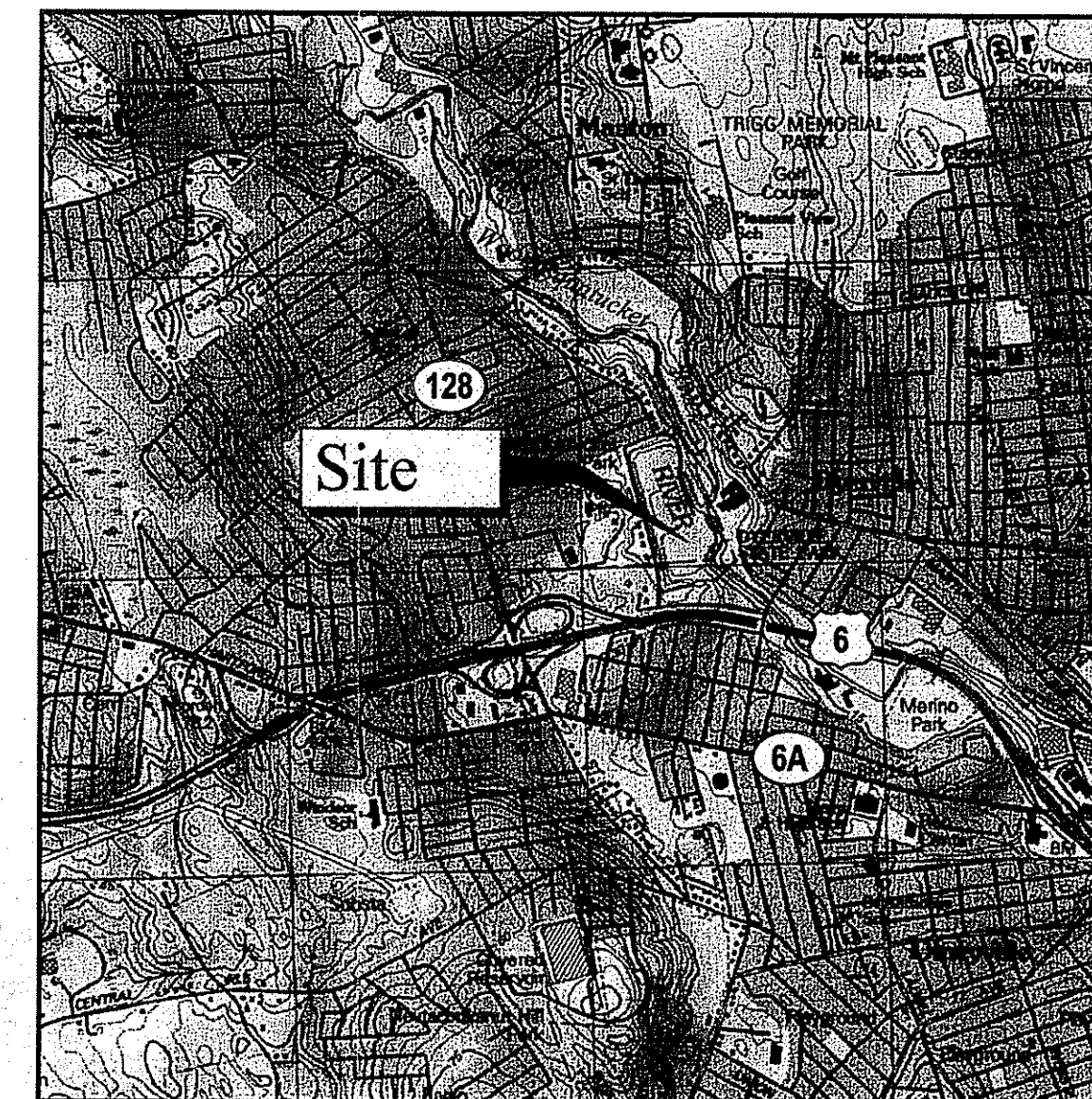
Reference Drawings

Number	Drawing Title	Latest Issue
2	Development Plan	3/19/1999
7	Grading and Utility Plan B	12/18/2000
8	Detention Pond Detail	4/27/1999

Button Hole Golf Course

Irrigation Pond Supplemental Water Supply

Providence, Rhode Island / Johnston, Rhode Island



Site Location Map

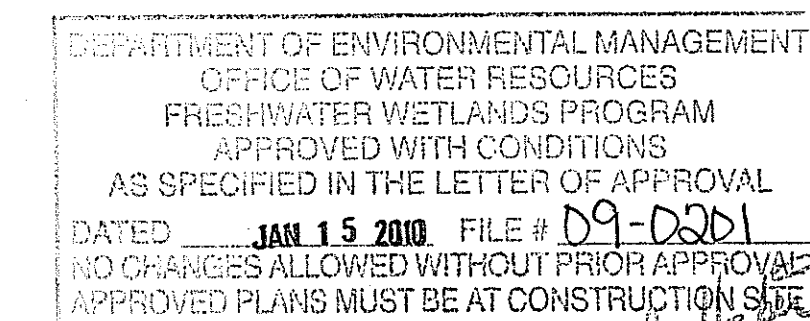
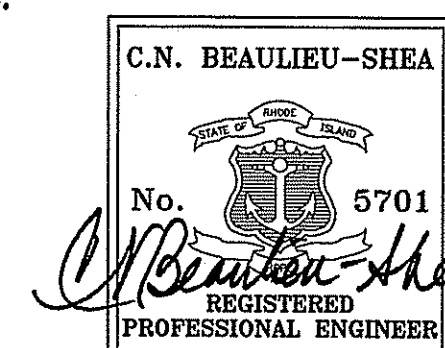
Property Information

Owner/Applicant:
Golf Association of Rhode Island
c/o Button Hole Golf Course
1 Button Hole Drive, Suite 1
Providence, Rhode Island 02909
Phone (401) 421-1664
Contact: David Hanna

Providence Assessor's Plat: 113; Lots: 1-25, 78-80, 141-147, 308
Providence Assessor's Plat: 114; Lots: 236-246
Johnston Assessor's Plat: 13; Lot 218



Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
Environmental Services
10 Dorrance Street, Suite 400
Providence, Rhode Island 02903
401.272.8100 • FAX 401.273.9694



Charles H. Shea



Vanasse Hangen Brustlin, Inc.

Transportation
Land Development
Environmental Services

10 Dorrance Street, Suite 400
Providence, Rhode Island 02903
401.272.8100 • FAX 401.273.9694

Legend

Prop.	Prop.
--- PROPERTY LINE	CONCRETE
--- PROJECT LIMIT LINE	RIPRAP
--- RIGHT-OF-WAY/PROPERTY LINE	132.75 x SPOT ELEVATION
--- EASEMENT	12" DRAIN
--- TOWN LINE	OHW OVERHEAD WIRE
--- LIMIT OF DISTURBANCE	FM IRRIGATION FORCE MAIN
--- WETLAND LINE WITH FLAG	E ELECTRIC
--- FLOODPLAIN	
--- BLSF BORDERING LAND SUBJECT TO FLOODING	
--- BZ WETLAND BUFFER ZONE	
--- HDZ NO DISTURB ZONE	
--- 200RA 200' RIVERFRONT AREA	
--- PATH	
--- TREE LINE	
--- WIRE FENCE	
--- FENCE	
--- STOCKADE FENCE	
--- STONE WALL	
--- RETAINING WALL	
--- STREAM / POND / WATER COURSE	
--- IRRIGATION BASIN	
--- HAY BALES	
--- SILT FENCE	
--- 4 MINOR CONTOUR	
--- 20 MAJOR CONTOUR	

Garofalo Existing Conditions Legend

---	ASSESSORS LINE
--- 10 ---	CONTOUR (5')
--- 8 ---	CONTOUR (1')
x 10.3	SPOT GRADE
x x	CHAIN LINK FENCE
D	DRAIN LINE
W	WATER LINE
E	ELECTRIC LINE
OHW	OVERHEAD WIRES
○	TREE LINE
○	TREE (VARIOUS SPECIES)
---	RIVER OR STREAM EDGE
ASSP	AREA SUBJECT TO STORM FLOWAGE
WV-V	WETLAND FLAG AS PLACED IN THE FIELD
x x	FIELD DELINEATION BIOLOGICAL WETLAND LIMITS
---	50-FOOT PERIMETER WETLAND
---	100-FOOT AND 200-FOOT RIVERBANK WETLAND
---	100-YEAR FLOODPLAIN

Garofalo Abbreviations

CONC.	CONCRETE
R.C.P.	REINFORCED CONCRETE PIPE
C.M.P.	CORRUGATED METAL PIPE
(FND)	FOUND

Abbreviations

General	
ABAN	ABANDON
APPROX	APPROXIMATE
CONC	CONCRETE
EL	ELEVATION
ELEV	ELEVATION
EXIST	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
TYP	TYPICAL

Utility

CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HW	HEADWALL
INV	INVERT ELEVATION
I=	INVERT ELEVATION
LP	LIGHT POLE
MES	METAL END SECTION
PWW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R=	RIM ELEVATION
UG	UNDERGROUND
UP	UTILITY POLE

Notes:

General

- CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE SIX INCHES LOAM AND SEED.
- WITHIN THE LIMITS OF THE PUMP STATION PAD FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.
- UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

Utilities

- THIS PLANSET WAS PREPARED USING DATA BY OTHERS AND DOES NOT INCLUDE A SURVEY OF UTILITIES. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- SET PIPE INVERTS IN ACCORDANCE WITH ELEVATIONS ON THE SITE PLAN AND PROFILE.
- UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
 - IRRIGATION WATER PIPES SHALL BE 1-1/2" CONTINUOUS COIL HIGH DENSITY POLYETHYLENE (HDPE) PIPE.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED STEWWORK RELATED ITEMS SUCH AS CONDUITS, DUCT BANKS, AND CONCRETE PADS.

Layout and Materials

- PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Erosion Control

- PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
- CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

Existing Conditions Information

- BASE PLAN: THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON A SURVEY PERFORMED BY GAROFALO & ASSOCIATES, INC.
- TOPOGRAPHY: ELEVATIONS ARE BASED ON NGVD 1929.
- FLOODPLAIN ELEVATION INTERPOLATED FROM RHODE ISLAND DEPARTMENT OF TRANSPORTATION PLANS TITLED "NORTHWEST BIKE TRAIL / WOODASQUATUCKET RIVER BIKEWAY", CONTRACT NO. 2; CITY OF PROVIDENCE AND TOWN OF JOHNSTON; COUNTY OF PROVIDENCE," BY FAY, SPOFFORD & THORNDIKE, INC. ENGINEERS, DATED APRIL 1, 2005.

No.	Revision	Date	By

Designed by	Drawn by	Checked by	Approved by
CAD checked by			
Scale	As Noted	Date	July 21, 2009
Project Title			

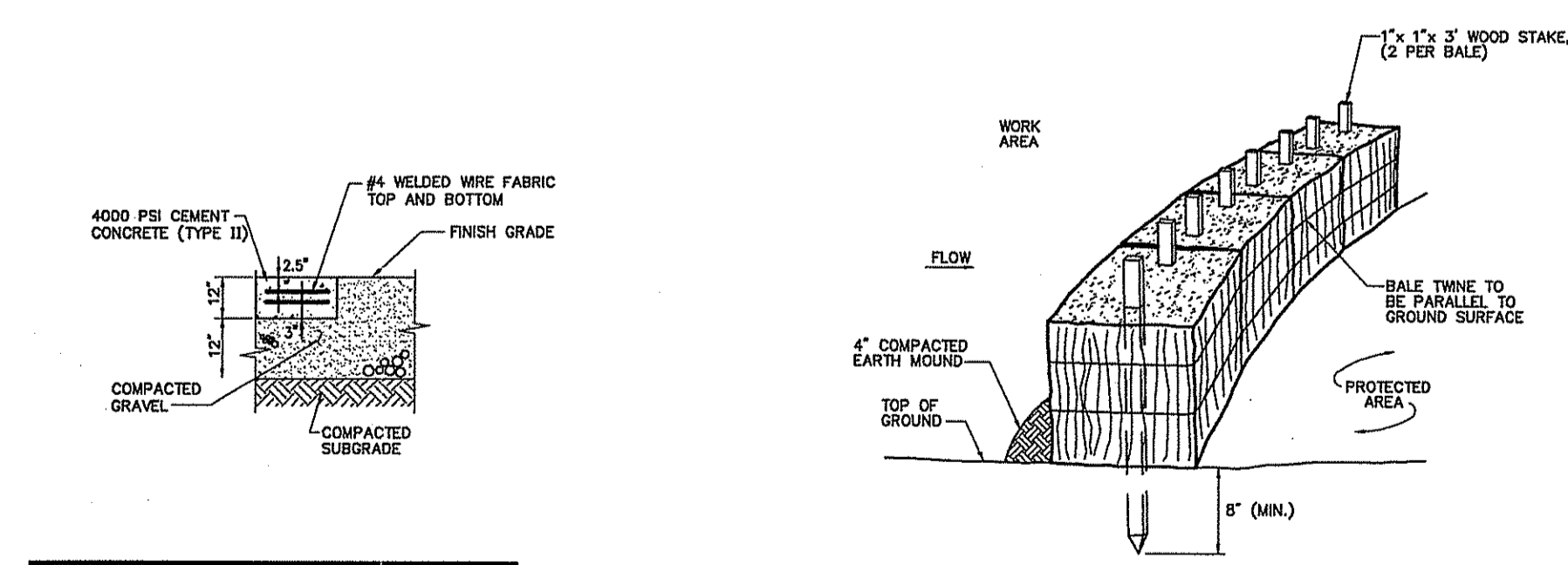
**Button Hole Golf Course
Irrigation Pond
Supplemental Water Supply**

Providence & Johnston, Rhode Island

Issued for
RIDEM Approval

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **JAN 15 2010** FILE # **09-0201**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Not Approved for Construction
Project Title
**Legend, General Notes,
and Details**



Concrete Pad
N.T.S. Source: VHB 6/08 REV LD_272

Hay Bale Barrier
N.T.S. Source: VHB 6/08 LD_653

Drawing Number
C-1
Sheet 1 of 2
Project Number 72174.00

C.N. BEAULIEU-SHEA
No. 5701
REGISTERED PROFESSIONAL ENGINEER

