FILLED WETLAND AREA IN CONCORD (TO BE REPLICATED) 715 S.F.

STANDING WATER

PROP. STAKED SILTFENCE (SEE DETAIL)

PROP. REPLICATION AREA: PROPOSED CONTOURS ARE SHOWN TO DEPICT INTENT TO OVEREXCAVATE AREA TO PROVIDE ADDITIONAL FLOOD STORAGE AND TO CREATE A DEEP POOL HABITAT FOR FLORA AND FAUNA. MICROTOPOGRAPHY AND FINAL GRADES SHALL BE ESTABLISHED UNDEE THE SUPERVISION OF THE ENVIRONMENTAL MONITOR.

LIMIT OF FILLED WETLAND AREA (IN ACTON) 2731 S.F.

WATER

GENERAL LIMIT OF SAND AND GRAVEL PLACEMENT FROM REPLICATION AREA

25' NO DISTURB ZONE

50' NO BUILD ZONE

PROPOSED BLAST ROCK PLACEMENT AREA (SEE DETAIL)

100' BUFFER ZONE

PROP. SILTFENCE (SEE DETAIL)

PROPOSED BERM (SEE DETAIL)

LIMIT OF BLSF-ELEVATION 134 (BORDERING LAND SUBJECT TO FLOODING) (SEE COMPENSATORY FLOOD STORAGE TABLE)

PROP. STAKED SILTFENCE (SEE DETAIL)

PROPOSED WETLAND REPLICATION AREA 1225 S.F. (SEE DETAIL)

PROP. HAYBALE & SILTFENCE (SEE DETAIL)

PROP. SILTFENCE (SEE DETAIL)

APPROXIMATE LOCATION TENNECO EASEMENT 12208/84 11511/662

PROP. TREES & SHRUBS (SEE DETAILS)

OUTLETS
INV. OUT(12")=148.55
INV. OUT(18")=151.81

EXIST. DMH
RIM=205.4
INV. IN=169.90
INV. OUT(12")=154.11
INV. OUT(18")=160.57

EXIST. DMH (APPROX. LOCATION) (SEE UTILITY NOTE)

PROP. RIP-RAP TREATMENT (SEE DETAIL)

TOPSOIL STORAGE AREA

PROP. HAYBALES (SEE DETAIL)

PROFILE 2

EXIST. CB
RIM=205.4
INV. IN=198.03
INV. OUT=196.03

EXISTING 24" GAS MAIN

PROP. HAYBALES (SEE DETAIL)

BENCHMARK
NAIL IN UP
ELEV=207.55

EXISTING ELECTRIC DUCT BANK

PROFILE 1

EXIST. CB
RIM=207.08
INV. IN=201.16
INV. OUT=201.08

PROP. HAYBALES (SEE DETAIL)

ELECTRICAL EASEMENT 22295/465

BUILDING FOOTPRINT

#54 OLD POWDER MILL ROAD

MEZZANINE

15' WATER MAIN EASEMENT 12208/84

ACTON

CONCORD

WOODED

GRAVEL

BIT CONC

GAS POST

TRANS

HYD

UP

PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
TREES				
Ar	Acer rubrum	Red Maple	4' – 5'	B&B
Ps	Pinus strobus	White Pine	4' – 5'	B&B
Qa	Quercus alba	White Oak	4' – 5'	B&B
SHRUBS				
Al	Amelanchier laevis	Allegheny Serviceberry	18" – 24"	container
Co	Corylus americana	American Filbert	18" – 24"	container
Gb	Gaylussacia baccata	Black Huckleberry	18 " – 24"	container
Hv	Hamamelis virginiana	Common Witchhazel	18" – 24"	container
Vc	Vaccinium corymbosum "Blue Crop"	Blue Crop Highbush Blueberry	18" – 24"	container

REPLICATION AREA PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
SHRUBS				
Co	Cephalanthus occidentalis	Buttonbush	2' – 3'	container
Iv	Ilex verticillata	Winterberry	2' – 3'	container
Se	Salix exigua	Purple–osier Willow	18" – 24"	container
St	Spiraea tomentosa	Steeplebush	18" – 24"	container

PREPARED FOR:

FTN LIMITED PARTNERSHIP
#48 OLD POWDER MILL RD.
CONCORD, MASSACHUSETTS

BEALS·ASSOCIATES INC.
2 THIRTEENTH STREET CHARLESTOWN, MA 02129
PHONE: 617-242-1120 FAX: 617-242-1190

REFERENCES:

PROPERTY LINE INFORMATION TAKEN FROM THE 'ALTA/ACSM LAND TITLE SURVEY' PLAN PREPARED BY PRECISION LAND SURVEYING, INC., DATED JULY 2007.

TOPOGRAPHICAL INFORMATION TAKEN FROM AERIAL PHOTOGRAPHS BY COL–EAST, INC. DATED NOVEMBER 1, 2006.

TOPOGRAPHICAL INFORMATION NEAR ASSABET RIVER TAKEN FROM CONCORD GIS DEPARTMENT MAY 2008 (NAD83 NAVD88).

DETAILED TOPOGRAPHIC INFORMATION OF SLOPE FAILURE AREA IS THE RESULT OF AN ON–THE GROUND SURVEY PERFORMED BY PRECISION LAND SURVEY IN NOVEMBER OF 2008.

DIG SAFE NOTE

IN ACCORDANCE WITH MGL CH 82, SECTION 40, INCLUDING AMENDMENTS, ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES, IN WRITING, OF THE INTENT TO EXCAVATE, NO LESS THAN THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS & HOLIDAYS) OR CALL "DIG SAFE" AT 1–800–322–4844.

UTILITY NOTE:
ALL UTILITY LOCATIONS SHOWN ARE EITHER THE RESULT OF ON–THE GROUND SURVEY OR EXISTING RECORD PLANS AVAILABLE. THE DRAIN MANHOLE DEPICTED ON THE EAST SIDE OF THE WORK AREA, AT THE TOP OF THE SLOPE, IS SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL LOCATE THIS STRUCTURE IN THE FIELD. THE DESIGN ENGINEER SHALL CONFIRM THAT THE DRAINAGE SYSTEM IS FUNCTIONING, AS SHOWN.

COMMONWEALTH OF MASSACHUSETTS
TODD M. BORG
CIVIL
9809
REGISTERED PROFESSIONAL ENGINEER
6/17/09

GRAPHIC SCALE

20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

NO.	REVISION/ISSUE	DATE
5	PER DEP SITE WALK	06/16/2009
4	PER DEP SITE WALK	06/12/2009
3	PER CMA AND NRC COMMENTS	04/30/2009
2	PER CMA AND NRC COMMENTS	04/15/2009
1	MODIFY STABILIZATION DESIGN	04/10/2009

SLOPE MITIGATION SITE PLAN

PLAN TO ACCOMPANY NOTICE OF INTENT
FOR #48 OLD POWDER MILL ROAD
CONCORD, MASSACHUSETTS
AND
40 SUDBURY ROAD
ACTON, MASSACHUSETTS

PROJECT C-472.07	DESIGN TML	SHEET 1 OF 5
DATE DECEMBER 19, 2008	CHECKED TML	
SCALE 1"=20'	REVISED TJM	