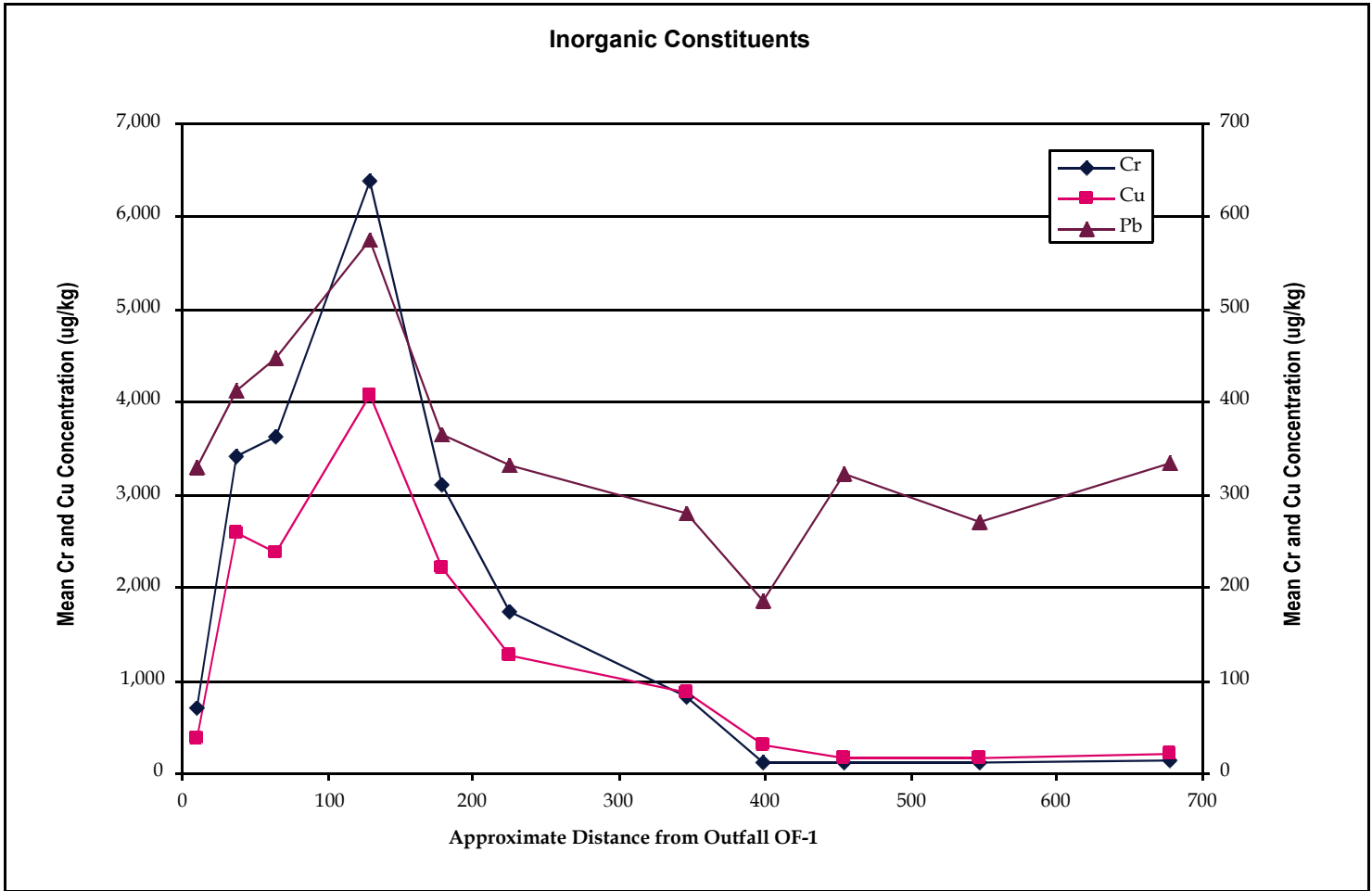

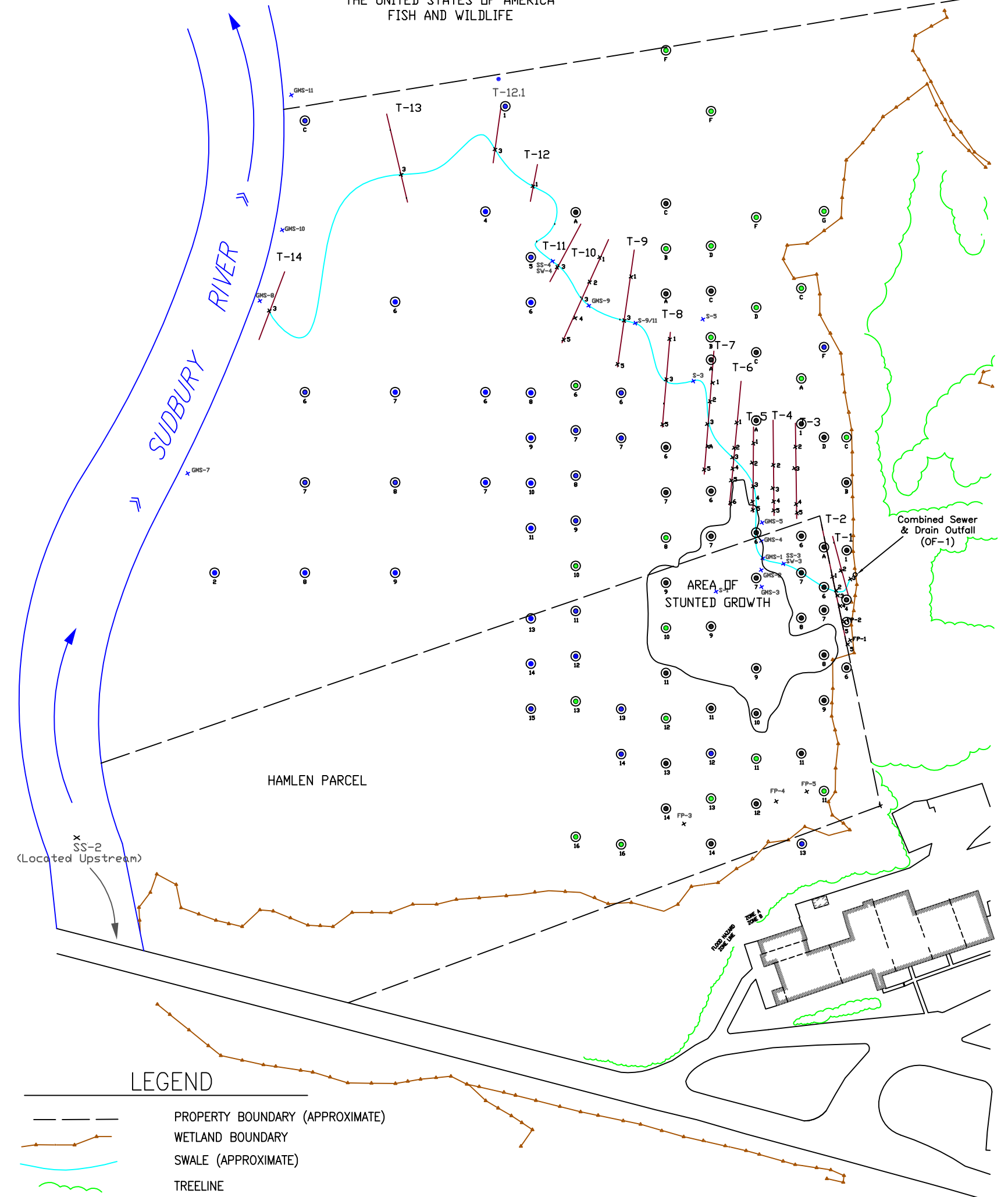
 ENVIRONMENTAL RESOURCES MANAGEMENT 399 Boylston Street, Boston, Massachusetts 02116 (617) 267-8377		
CLIENT NAME: Raytheon	DRAWN BY: LA	DATE: 11/6/02
FILE NAME: Sed Conc organic	SCALE:	PROJ: 143.65
Former Raytheon Facility 430 Boston Post Road Wayland, Massachusetts		
Mean Soil/Sediment Concentration as a Function of Distance from Outfall OF-1 - Organic		FIGURE NO.: 8
PRINCIPAL-IN-CHARGE: JD	PROJECT MANAGER: RJF	



 ENVIRONMENTAL RESOURCES MANAGEMENT ERM		
399 Boylston Street, Boston, Massachusetts 02116 (617) 267-8377		
CLIENT NAME: Raytheon	DRAWN BY: LA	DATE: 11/6/02
FILE NAME: Sed Conc Inorganic	SCALE:	PROJ: 143.65
Former Raytheon Facility 430 Boston Post Road Wayland, Massachusetts		
Mean Soil/Sediment Concentration as a Function of Distance from Outfall OF-1 - Inorganic		FIGURE NO.: 9
PRINCIPAL-IN-CHARGE: JD	PROJECT MANAGER: RJF	

x SS-1
(Located Downstream) x GMS-12

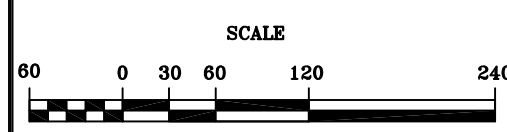
N/F
THE UNITED STATES OF AMERICA
FISH AND WILDLIFE



LEGEND

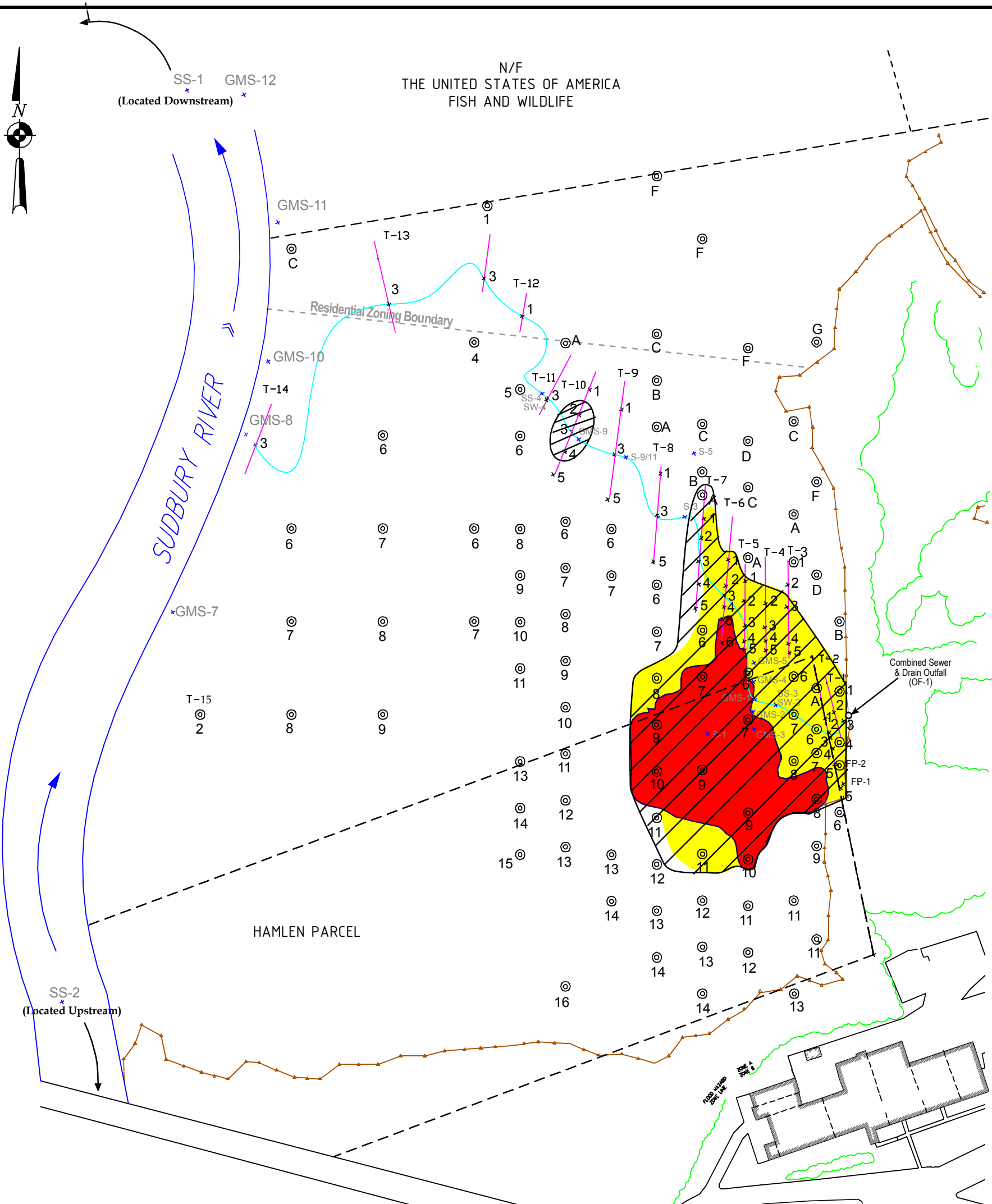
- PROPERTY BOUNDARY (APPROXIMATE)
- WETLAND BOUNDARY
- SWALE (APPROXIMATE)
- TREELINE
- T-12 TRANSECT LINE
- x SS-1 1990 SAMPLE LOCATION (APPROXIMATE)
- S-1 JUNE 1995 SAMPLE LOCATION (APPROXIMATE)
- GMS-7 1990 USFWS SAMPLE LOCATION (APPROXIMATE)
- x3 1998 SAMPLE LOCATION
- ⊙ SAMPLE LOCATION (OCT 99)
- ⊙ SAMPLE LOCATION (NOV 99)
- ⊙ SAMPLE LOCATION (MAY 00)

Note: Base Map adapted from 1996 VHB facility map



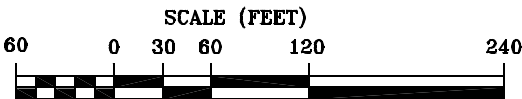
Environmental Resources Management 399 Boylston Street Boston, MA 02116 (617) 267-8377	Designed by:	Former Raytheon Facility 430 Boston Post Road Wayland, MA Wetland Sediment Sample Location Map
	Drawn by: RL/CMP	
Revisions		Checked by: RJF
Symbol	Description	Date
		Approved
G:\Projects\143.xx-Raytheon\Wayland\Job File\		Reviewed by: JMcT
Summer 2002 Site Investigations\figures-pdfs		Submitted by:
		Scale: 1" = 120'
		Date: 11/6/02
		Drawing No.
		Figure No. 10
		Contract No. 143.65

N/F
THE UNITED STATES OF AMERICA
FISH AND WILDLIFE

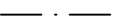
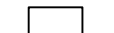





Legend

- Property Boundary (Approximate)
- - - Residential Zoning North Of This Line
- Wetland Boundary
- Swale (Approximate)
- Treeline
- T-12 Transect Line
- ⊙ Sample Location (1999-2000)
- * GMS-7 Sample Location (1990-1998)
- Mapped Area of Stunted Growth
- Expanded Area of Readily Apparent Harm
- ▨ Targeted Remedial Area



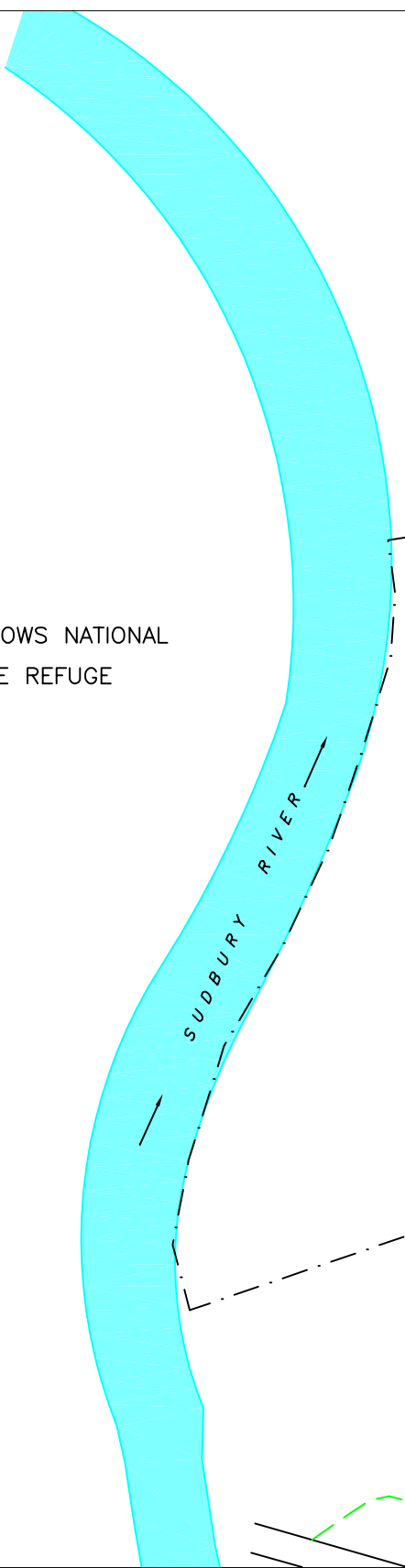
ENVIRONMENTAL RESOURCES MANAGEMENT ERM			
399 Boylston Street, Boston, Massachusetts 02116 (617) 267-8377			
CLIENT NAME:	Raytheon	DRAWN BY:	RBL
		DATE:	11/6/02
FILE NAME:	Locus Map	SCALE:	1"=120'
		PROJ:	143.65
Former Raytheon Facility 430 Boston Post Road Wayland, Massachusetts			
Areas Targeted for Abatement of OHM in Wetlands Soil/Sediment			FIGURE NO.: 11
PRINCIPAL-IN-CHARGE:	JD	PROJECT MANAGER:	RJF

- Legend**
-  Former Raytheon Property Boundary
 -  Existing Building
 -  Tree Line
 -  Temporary Road Construction
 -  Limit of Bordering Vegetated Wetland

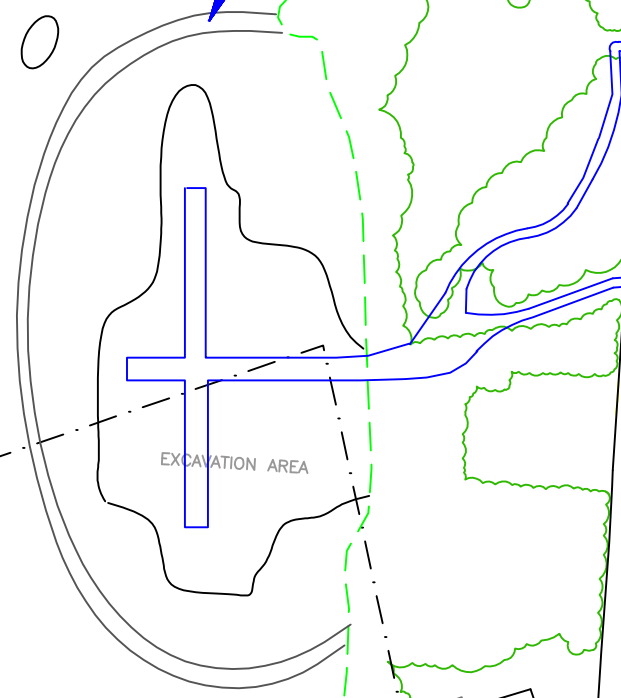
WAYLAND CONSERVATION COMMISSION WOODLANDS



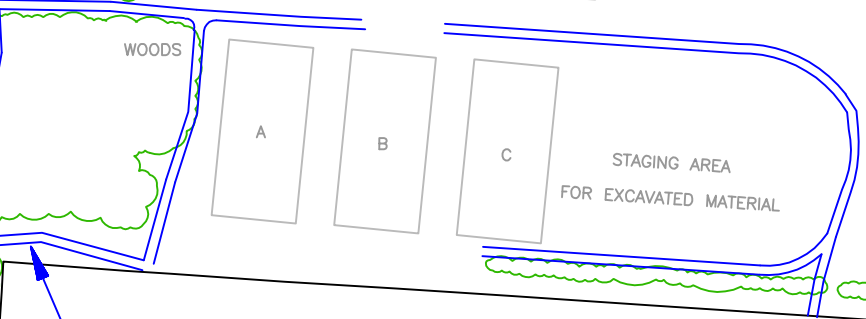
GREAT MEADOWS NATIONAL WILDLIFE REFUGE



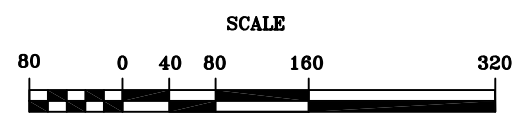
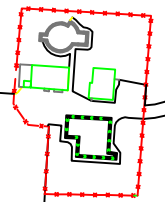
TEMPORARY FLOOD BARRIER.
MINIMAL VEGETATIVE IMPACT.
AREA TO BE RESTORED.




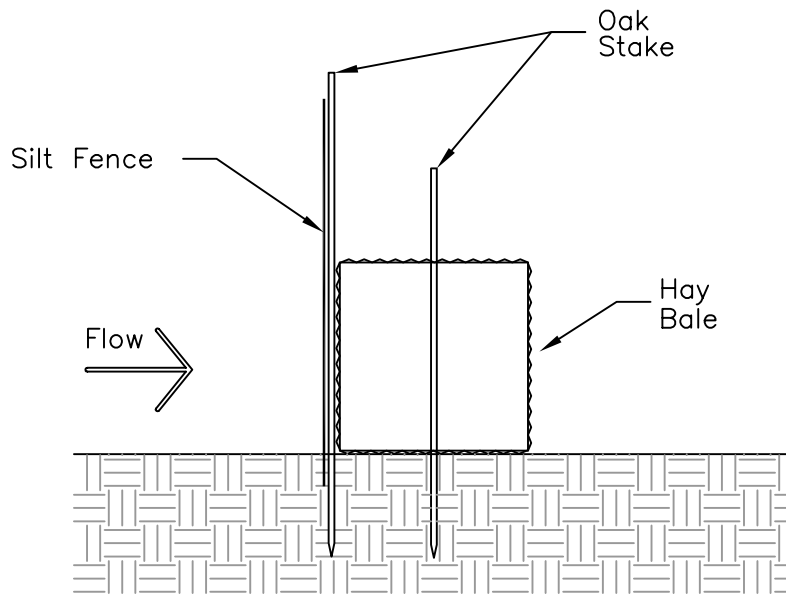
ROAD TO BE BUILT IN EXISTING PATH. TEMPORARY IMPACTS, MINIMAL VEGETATIVE CLEARING AND SOIL DISTURBANCE. AREA TO BE RESTORED.



FIELD

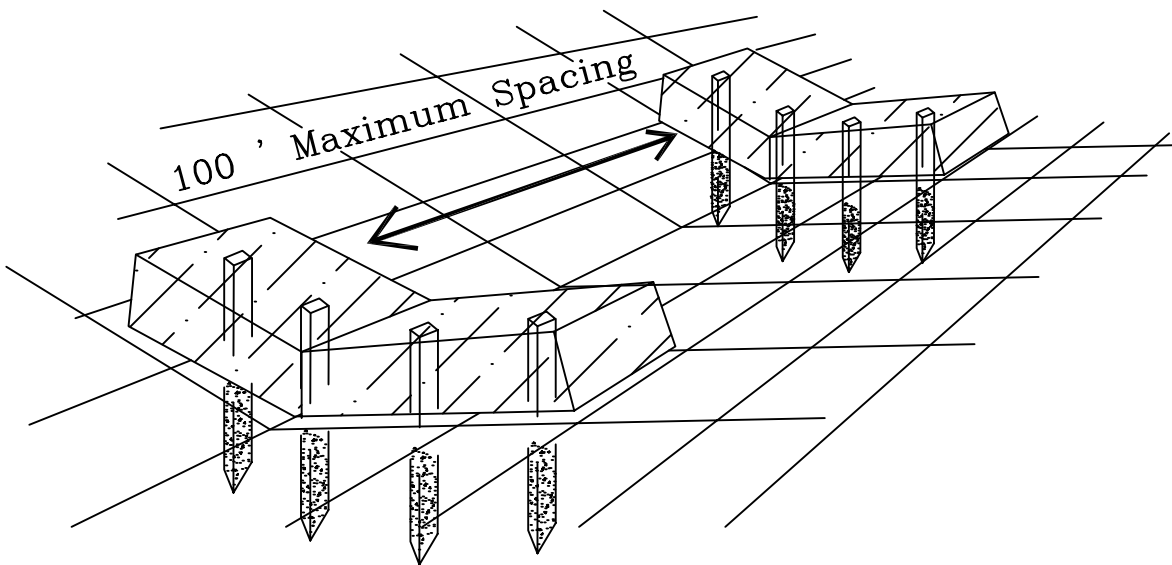


 Environmental Resources Management 399 Boylston Street Boston, MA 02116 (617) 267-8377				Designed by: Drawn by: Checked by: Reviewed by: Submitted by:																	
Revisions <table border="1"> <thead> <tr> <th>Symbol</th> <th>Description</th> <th>Date</th> <th>Approved</th> </tr> </thead> <tbody> <tr> <td></td> <td>Northern Site Assessment</td> <td></td> <td></td> </tr> <tr> <td colspan="4">G:\Projects\143.xx-Raytheon\Wayland\</td> </tr> <tr> <td colspan="4">Job File\Summer 2002 Site Investigations\Raytheon.dwg</td> </tr> </tbody> </table>				Symbol	Description	Date	Approved		Northern Site Assessment			G:\Projects\143.xx-Raytheon\Wayland\				Job File\Summer 2002 Site Investigations\Raytheon.dwg				Former Raytheon Facility 430 Boston Post Road Wayland, MA Staging and Remedial Area Scale: 1"=160' Date: 11/6/02 Drawing No. Figure No. Contract No. 143.66 12	
Symbol	Description	Date	Approved																		
	Northern Site Assessment																				
G:\Projects\143.xx-Raytheon\Wayland\																					
Job File\Summer 2002 Site Investigations\Raytheon.dwg																					



TYP. SEDIMENT BARRIER DETAIL

N.T.S.




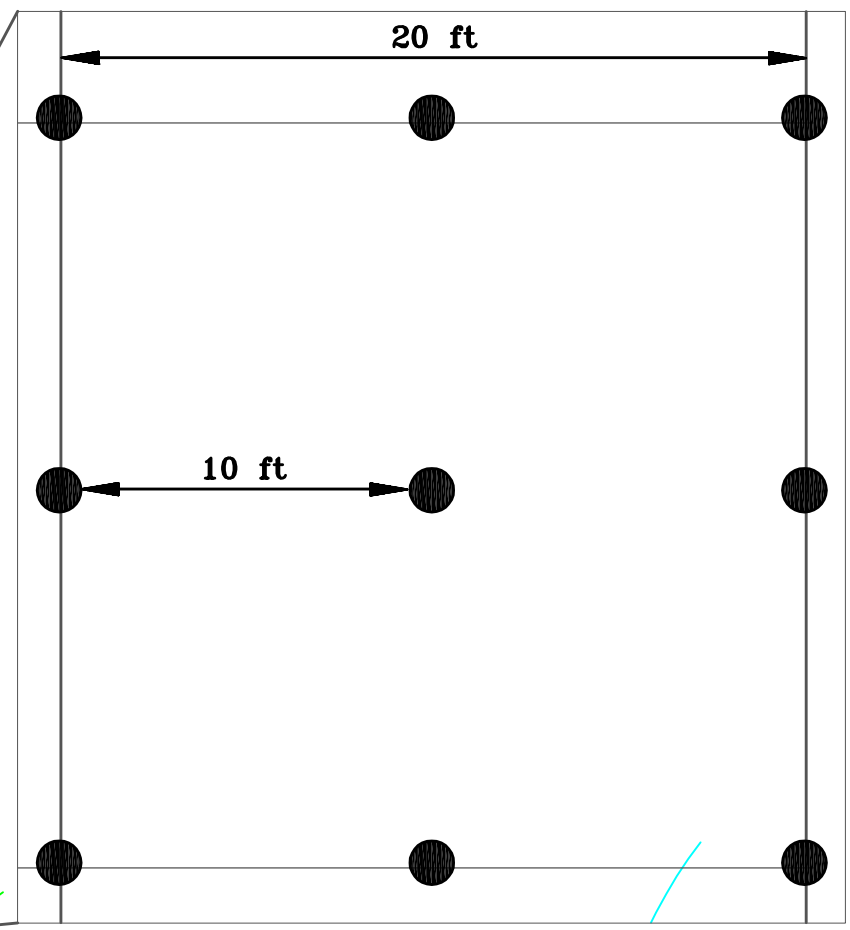
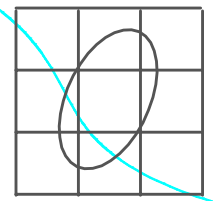
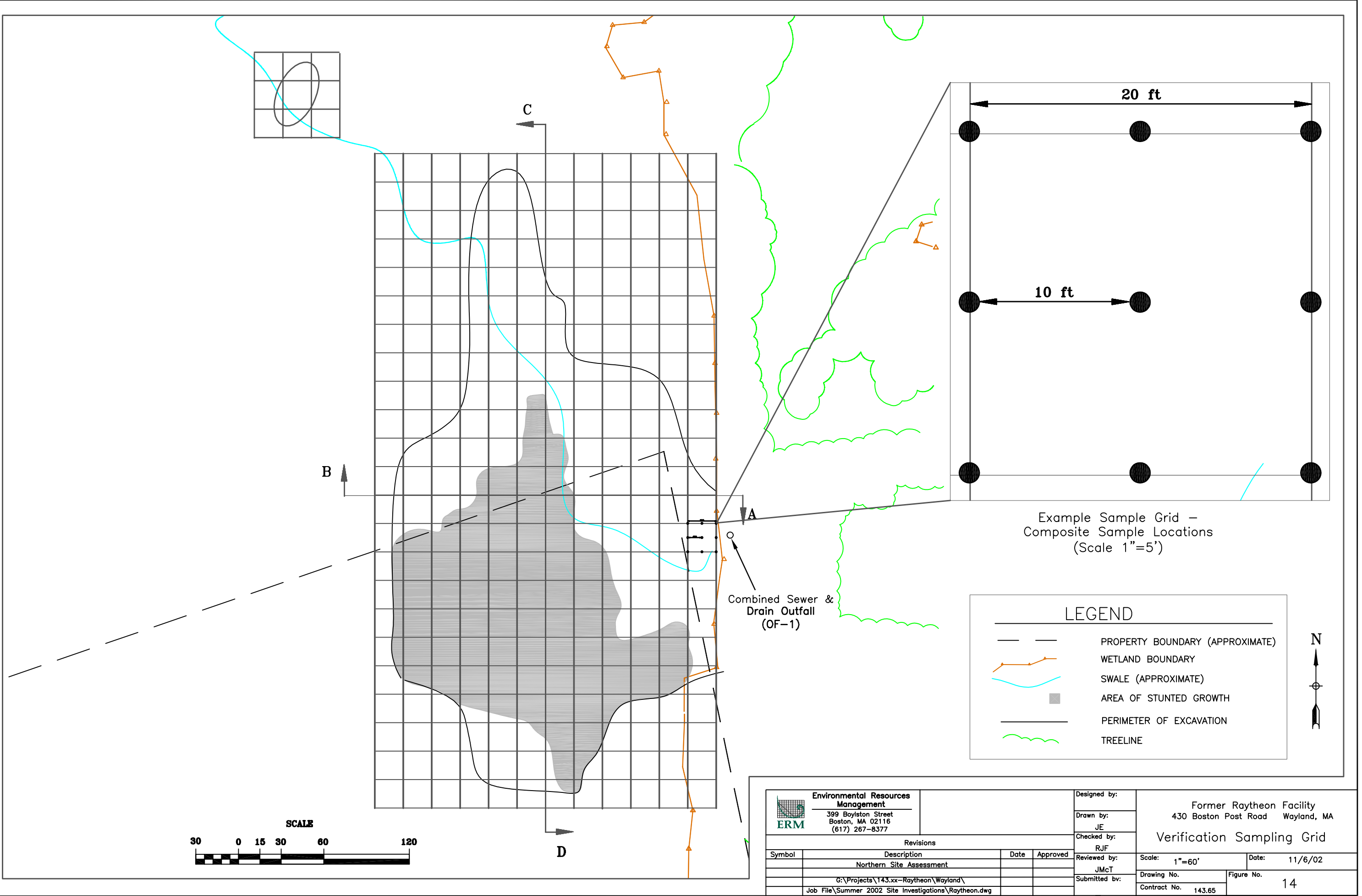
TYP. HAY BALE CHECK DAM

N.T.S.

NOTE:

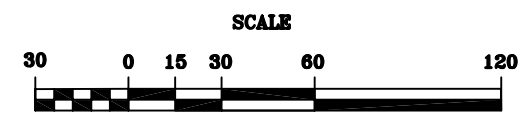
Erosion check to be bales of hay secured to the ground with 2' - 4' long grade stakes for each bale.

 Environmental Resources Management 399 Boylston Street Boston, MA 02116 (617) 267-8377		Designed by:		Former Raytheon Facility 430 Boston Post Road Wayland, MA Erosion Control Detail	
		Drawn by:			
Checked by:		Reviewed by:			
Submitted by:		Scale: NTS			
Revisions					
Symbol	Description	Date	Approved		
	Northern Site Assessment				
G:\Projects\143.xx-Raytheon\Wayland\					
Job File\Summer 2002 Site Investigations\Raytheon.dwg					
		Submitted by:		Drawing No.	
				Figure No.	
				Contract No. 143.65	
				13	

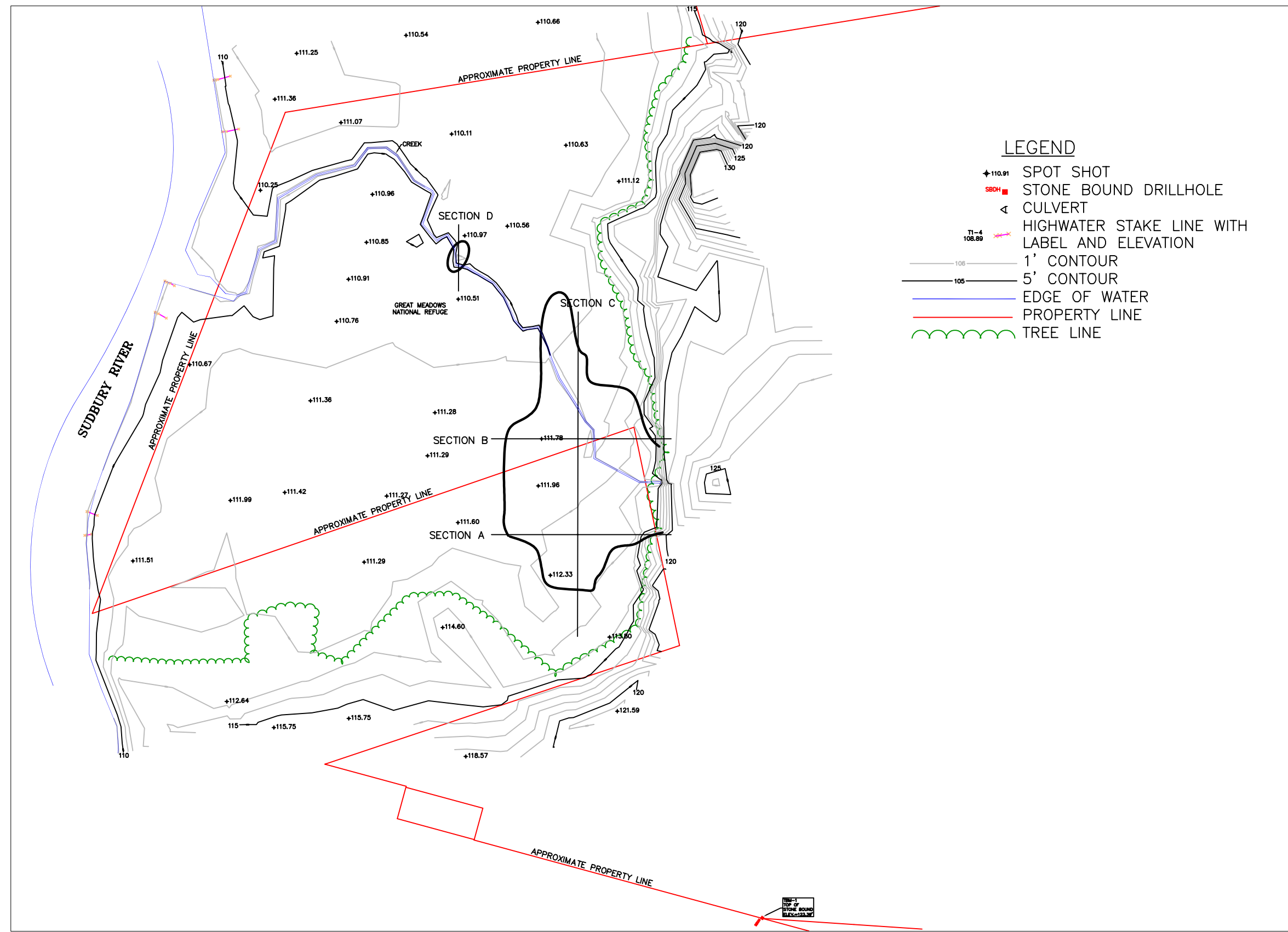


Example Sample Grid –
Composite Sample Locations
(Scale 1"=5')

LEGEND	
	PROPERTY BOUNDARY (APPROXIMATE)
	WETLAND BOUNDARY
	SWALE (APPROXIMATE)
	AREA OF STUNTED GROWTH
	PERIMETER OF EXCAVATION
	TREELINE



Environmental Resources Management 399 Baylston Street Boston, MA 02116 (617) 267-8377	Designed by:	Former Raytheon Facility 430 Boston Post Road Wayland, MA Verification Sampling Grid																	
	Drawn by:			JE															
Revisions <table border="1"> <thead> <tr> <th>Symbol</th> <th>Description</th> <th>Date</th> <th>Approved</th> </tr> </thead> <tbody> <tr> <td></td> <td>Northern Site Assessment</td> <td></td> <td></td> </tr> <tr> <td></td> <td>G:\Projects\143.xx-Raytheon\Wayland\</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Job File\Summer 2002 Site Investigations\Raytheon.dwg</td> <td></td> <td></td> </tr> </tbody> </table>		Symbol	Description	Date	Approved		Northern Site Assessment				G:\Projects\143.xx-Raytheon\Wayland\				Job File\Summer 2002 Site Investigations\Raytheon.dwg			Checked by:	RJF
Symbol	Description	Date	Approved																
	Northern Site Assessment																		
	G:\Projects\143.xx-Raytheon\Wayland\																		
	Job File\Summer 2002 Site Investigations\Raytheon.dwg																		
		Reviewed by:	JMcT																
		Submitted by:																	
		Scale: 1"=60'	Date: 11/6/02																
		Drawing No.	Figure No.																
		Contract No. 143.65	14																



LEGEND

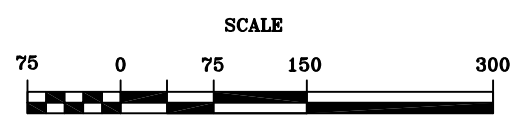
- ◆ +110.91 SPOT SHOT
- SB04 STONE BOUND DRILLHOLE
- ◁ CULVERT
- TI-4 106.89 HIGHWATER STAKE LINE WITH LABEL AND ELEVATION
- 106 1' CONTOUR
- 105 5' CONTOUR
- EDGE OF WATER
- PROPERTY LINE
- TREE LINE


NOTES

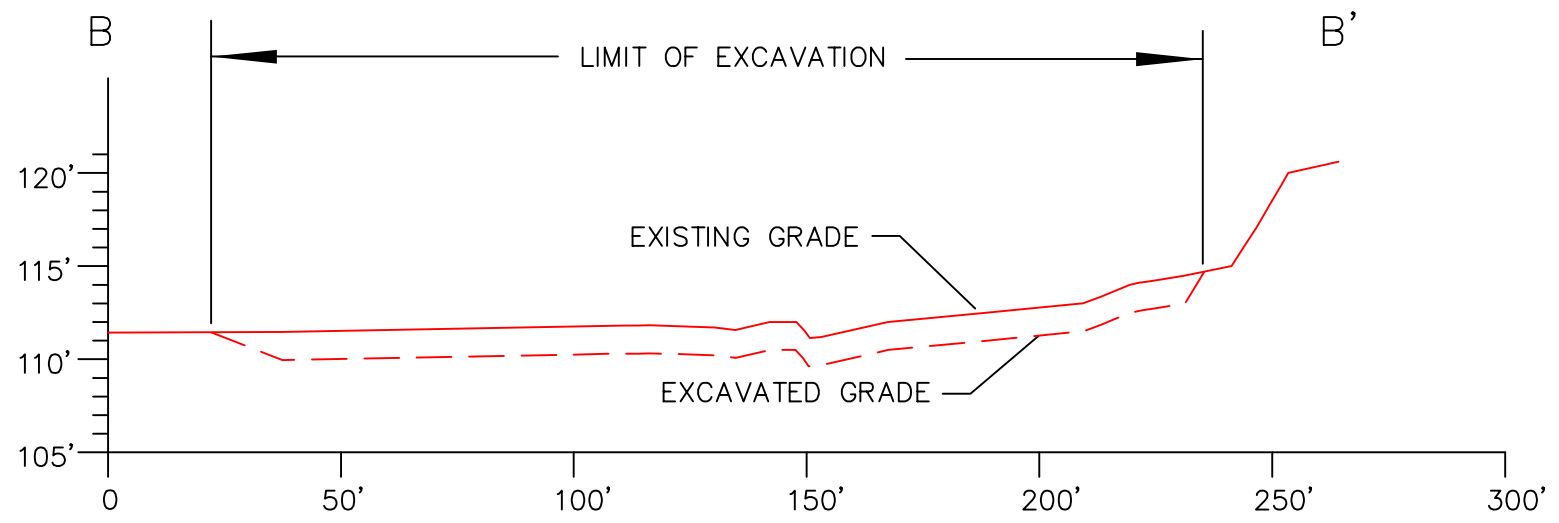
1. THIS PLAN WAS PREPARED FROM AN ON-THE-GROUND FIELD SURVEY CONDUCTED BY CHAS. H. SELLS, INC. BETWEEN OCTOBER 31 AND NOVEMBER 7, 2001.
2. HIGHWATER STAKES WERE PLACED BY WOODLOT ALTERNATIVES, INC. ON 10/26/01 AND FIELD LOCATED BY CHAS. H. SELLS, INC.
3. THE PROPERTY LINES SHOWN HEREON ARE BASED ON PLANS AND DEEDS OF RECORD AND AN ACTUAL FIELD SURVEY PERFORMED BY V.H.B. INC. BETWEEN JULY 15 AND JULY 30, 1997.
4. THE VERTICAL DATUM IS NAVD OF 1988. THE PRIMARY BENCHMARK REFERENCED (A.K.A. TBM-1) IS MC 58W WHICH IS A STANDARD USC & GS DISK IN CONCRETE MONUMENT LOCATED AT THE INTERSECTION OF OLD SUDBURY ROAD AND CONCORD ROAD. (SEE PLAN FOR THE LOCATION OF TBM-1 ON SITE.)
5. THE HORIZONTAL COORDINATES AND BEARING SYSTEM SHOWN HEREON ARE TO BE CONSIDERED ARBITRARY.

PLAN REFERENCES

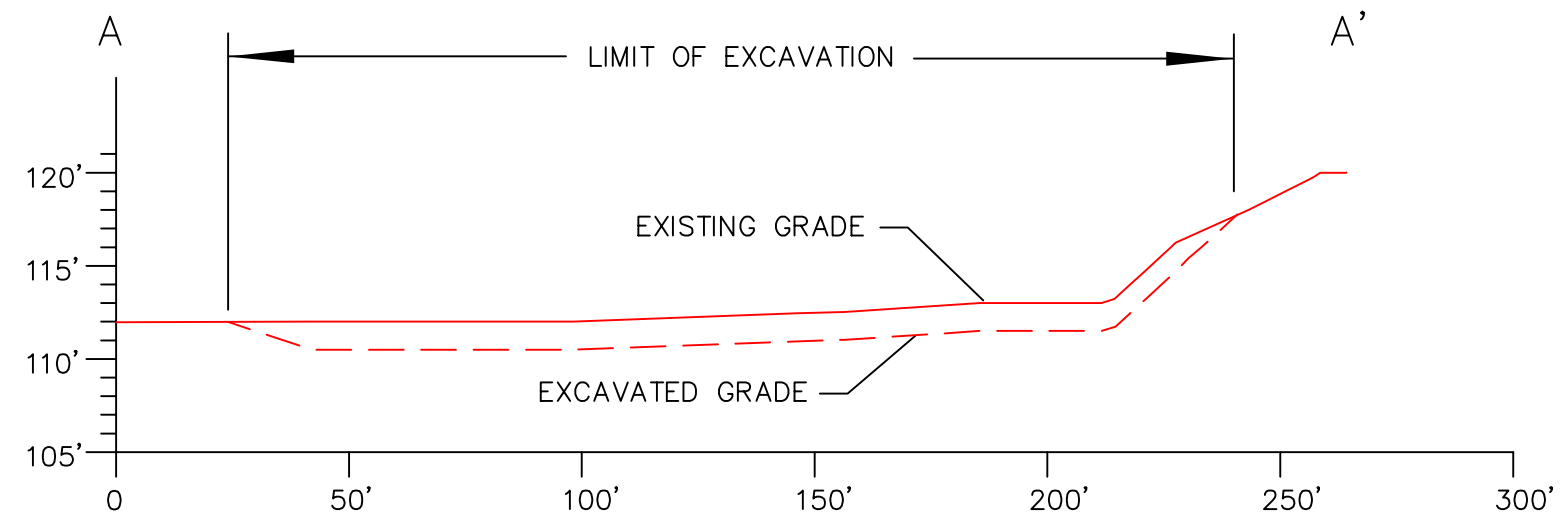
1. PLAN ENTITLED "EXISTING CONDITIONS TOPOGRAPHIC PLAN OF LAND", PREPARED BY VANASSE HANGEN BRUSTLIN, INC. AND DATED 1/29/98



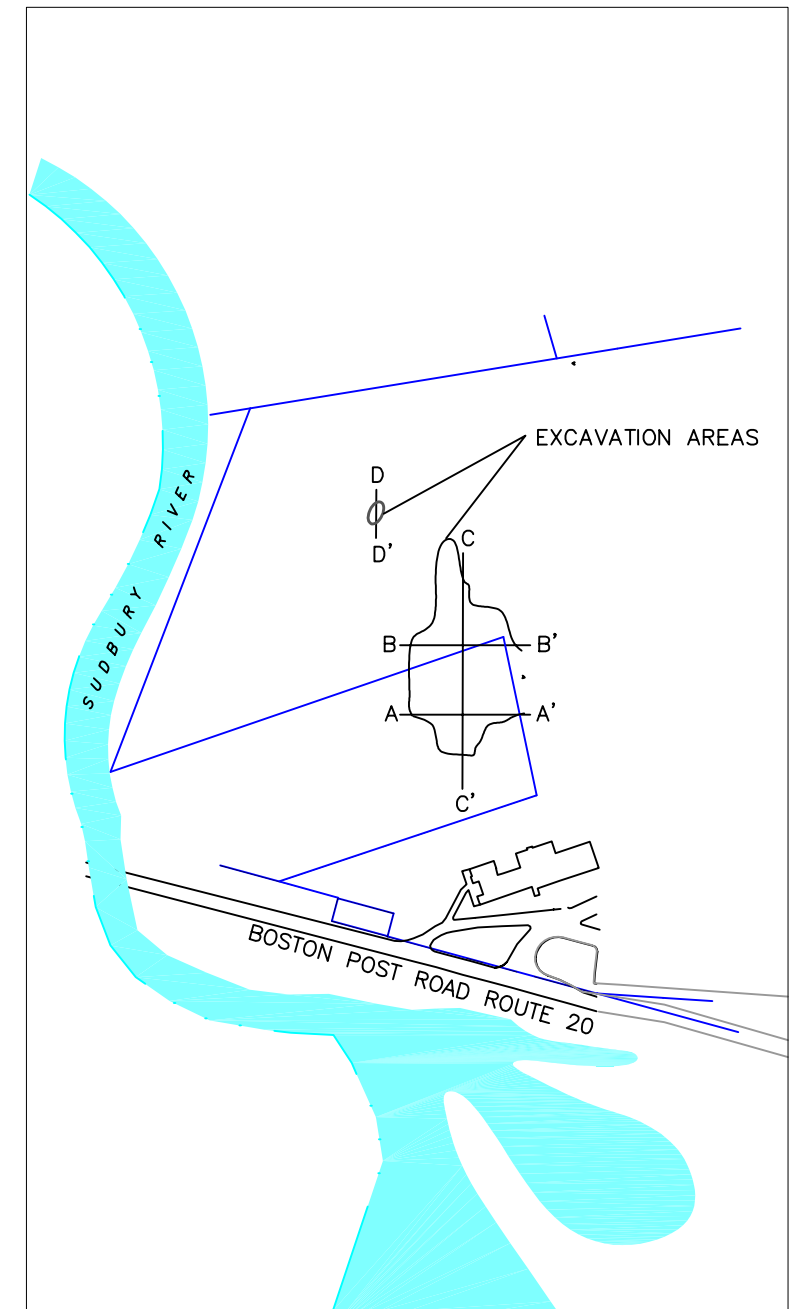
 Environmental Resources Management 399 Boylston Street Boston, MA 02116 (617) 267-8377	Designed by:		Former Raytheon Facility 430 Boston Post Road Wayland, MA																	
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Symbol	Description	Date	Approved																	
	Northern Site Assessment																			
	G:\Projects\143.xx-Raytheon\Wayland\																			
	Job File\Summer 2002 Site Investigations\Raytheon.dwg																			
		Reviewed by:		Drawing No.																
		Submitted by:			Figure No.															
				Contract No. 143.65	15a															




CROSS SECTION B-B'

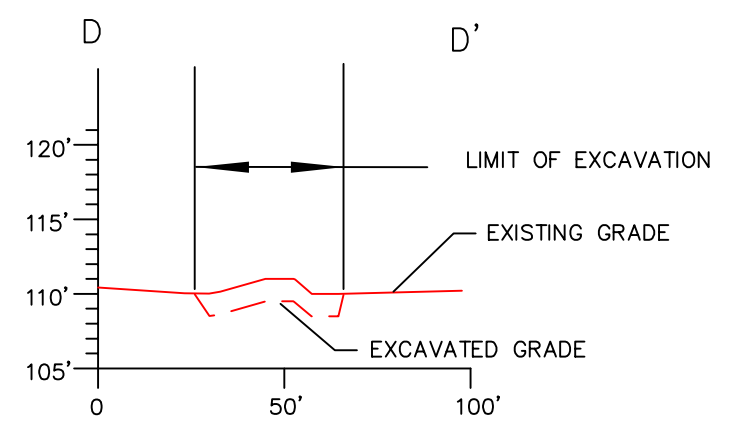


CROSS SECTION A-A'

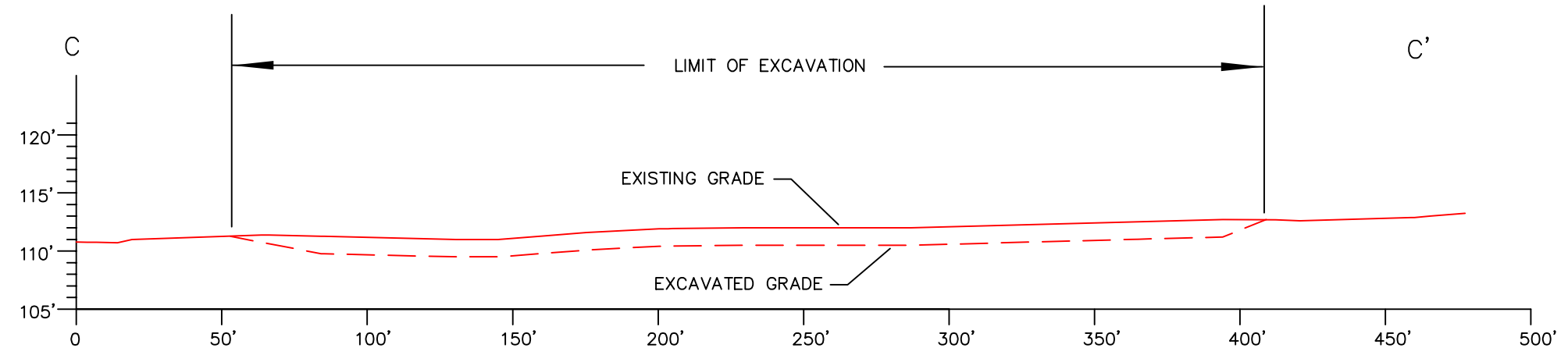


Survey Data from Chas. H. Sells, Inc.

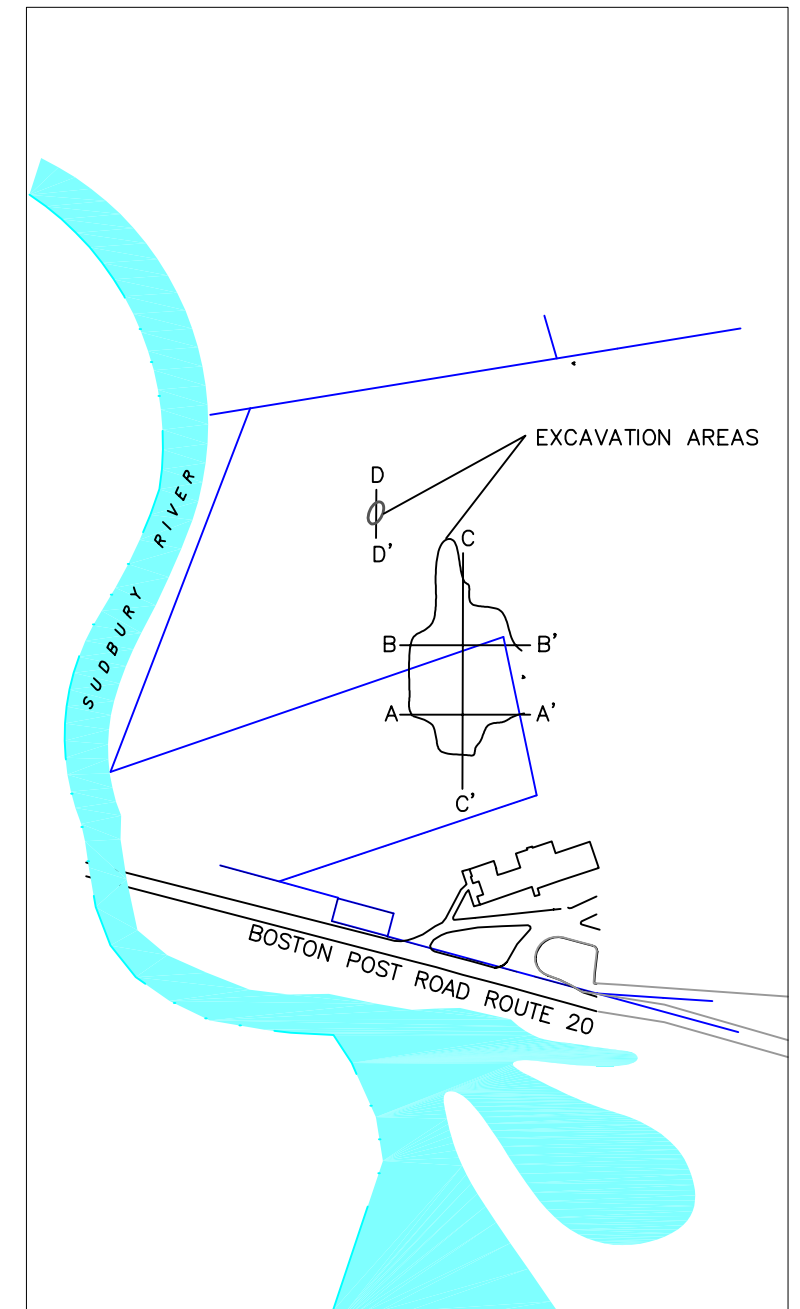
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Revisions		Checked by: RJF		Scale: NTS
Symbol	Description	Date	Approved	Date: 11/6/02
	Northern Site Assessment			
G:\Projects\143.xx-Raytheon\Wayland\		Reviewed by: JMcT		Drawing No.
Job File\Summer 2002 Site Investigations\Raytheon.dwg		Submitted by:		Figure No. 15b
				Contract No. 143.65




CROSS SECTION D-D'



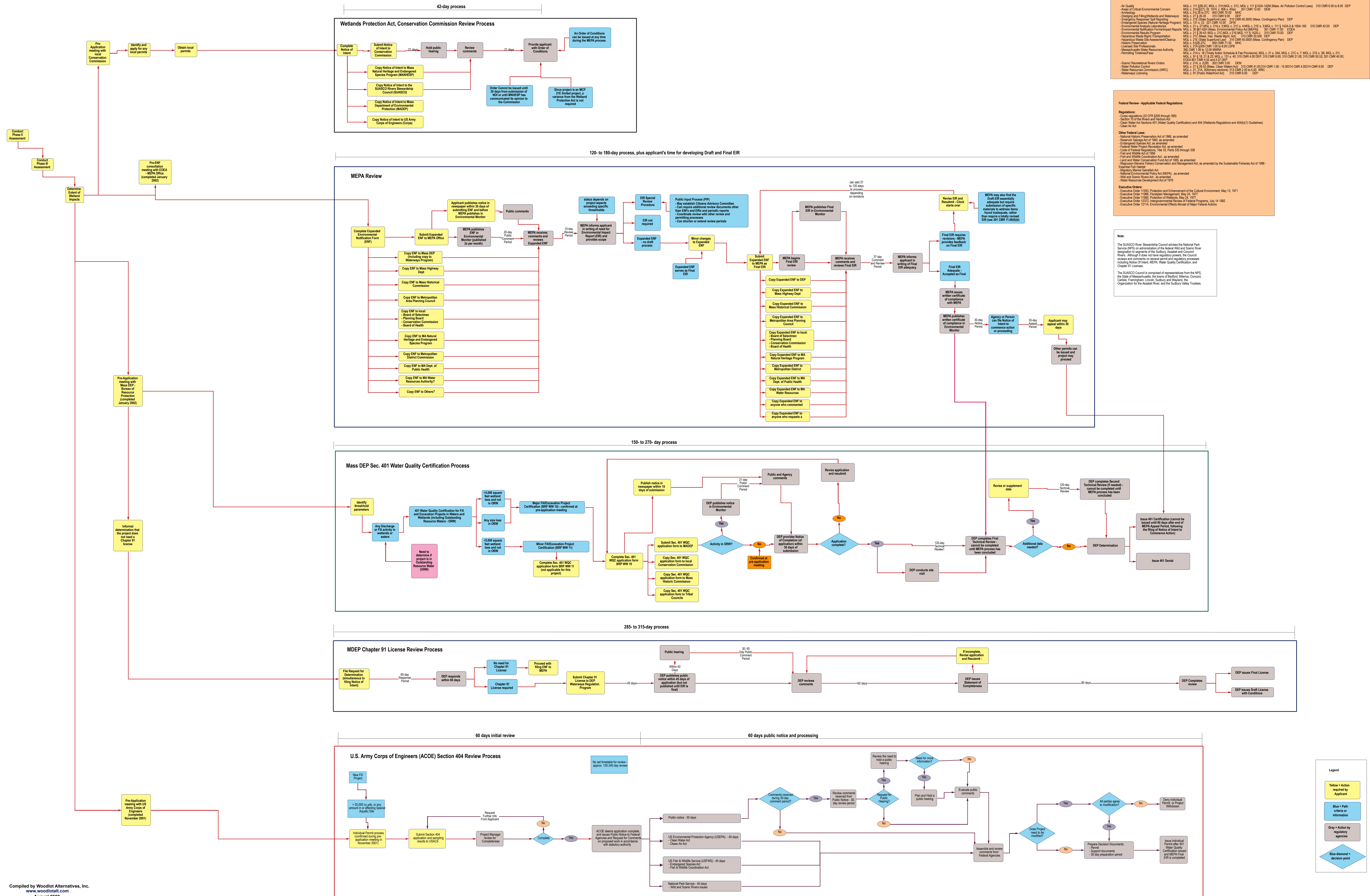
CROSS SECTION C-C'



Survey Data from Chas. H. Sells, Inc.

 Environmental Resources Management 399 Boylston Street Boston, MA 02116 (617) 267-8377	Designed by:		Former Raytheon Facility 430 Boston Post Road Wayland, MA	
	Drawn by: JE		Topographic Cross-Sections	
Revisions		Checked by: RJF		Scale: NTS
Symbol	Description	Date	Approved	Date: 11/6/02
	Northern Site Assessment			
G:\Projects\143.xx-Raytheon\Wayland\				Drawing No.
Job File\Summer 2002 Site Investigations\Raytheon.dwg				Figure No. 15c
		Submitted by: JMcT		Contract No. 143.65

Anticipated Permitting Process - Raytheon Site
DRAFT August 9, 2002



State Review - State of Massachusetts Environmental Statutes and Regulations:

Air Quality	MG c. 21A, § 27C, 27D, 27E, 27F, 27G, 27H, 27I, 27J, 27K, 27L, 27M, 27N, 27O, 27P, 27Q, 27R, 27S, 27T, 27U, 27V, 27W, 27X, 27Y, 27Z, 27AA, 27AB, 27AC, 27AD, 27AE, 27AF, 27AG, 27AH, 27AI, 27AJ, 27AK, 27AL, 27AM, 27AN, 27AO, 27AP, 27AQ, 27AR, 27AS, 27AT, 27AU, 27AV, 27AW, 27AX, 27AY, 27AZ, 27BA, 27BB, 27BC, 27BD, 27BE, 27BF, 27BG, 27BH, 27BI, 27BJ, 27BK, 27BL, 27BM, 27BN, 27BO, 27BP, 27BQ, 27BR, 27BS, 27BT, 27BU, 27BV, 27BW, 27BX, 27BY, 27BZ, 27CA, 27CB, 27CC, 27CD, 27CE, 27CF, 27CG, 27CH, 27CI, 27CJ, 27CK, 27CL, 27CM, 27CN, 27CO, 27CP, 27CQ, 27CR, 27CS, 27CT, 27CU, 27CV, 27CW, 27CX, 27CY, 27CZ, 27DA, 27DB, 27DC, 27DD, 27DE, 27DF, 27DG, 27DH, 27DI, 27DJ, 27DK, 27DL, 27DM, 27DN, 27DO, 27DP, 27DQ, 27DR, 27DS, 27DT, 27DU, 27DV, 27DW, 27DX, 27DY, 27DZ, 27EA, 27EB, 27EC, 27ED, 27EE, 27EF, 27EG, 27EH, 27EI, 27EJ, 27EK, 27EL, 27EM, 27EN, 27EO, 27EP, 27EQ, 27ER, 27ES, 27ET, 27EU, 27EV, 27EW, 27EX, 27EY, 27EZ, 27FA, 27FB, 27FC, 27FD, 27FE, 27FF, 27FG, 27FH, 27FI, 27FJ, 27FK, 27FL, 27FM, 27FN, 27FO, 27FP, 27FQ, 27FR, 27FS, 27FT, 27FU, 27FV, 27FW, 27FX, 27FY, 27FZ, 27GA, 27GB, 27GC, 27GD, 27GE, 27GF, 27GG, 27GH, 27GI, 27GJ, 27GK, 27GL, 27GM, 27GN, 27GO, 27GP, 27GQ, 27GR, 27GS, 27GT, 27GU, 27GV, 27GW, 27GX, 27GY, 27GZ, 27HA, 27HB, 27HC, 27HD, 27HE, 27HF, 27HG, 27HH, 27HI, 27HJ, 27HK, 27HL, 27HM, 27HN, 27HO, 27HP, 27HQ, 27HR, 27HS, 27HT, 27HU, 27HV, 27HW, 27HX, 27HY, 27HZ, 27IA, 27IB, 27IC, 27ID, 27IE, 27IF, 27IG, 27IH, 27II, 27IJ, 27IK, 27IL, 27IM, 27IN, 27IO, 27IP, 27IQ, 27IR, 27IS, 27IT, 27IU, 27IV, 27IW, 27IX, 27IY, 27IZ, 27JA, 27JB, 27JC, 27JD, 27JE, 27JF, 27JG, 27JH, 27JI, 27JJ, 27JK, 27JL, 27JM, 27JN, 27JO, 27JP, 27JQ, 27JR, 27JS, 27JT, 27JU, 27JV, 27JW, 27JX, 27JY, 27JZ, 27KA, 27KB, 27KC, 27KD, 27KE, 27KF, 27KG, 27KH, 27KI, 27KJ, 27KK, 27KL, 27KM, 27KN, 27KO, 27KP, 27KQ, 27KR, 27KS, 27KT, 27KU, 27KV, 27KW, 27KX, 27KY, 27KZ, 27LA, 27LB, 27LC, 27LD, 27LE, 27LF, 27LG, 27LH, 27LI, 27LJ, 27LK, 27LL, 27LM, 27LN, 27LO, 27LP, 27LQ, 27LR, 27LS, 27LT, 27LU, 27LV, 27LW, 27LX, 27LY, 27LZ, 27MA, 27MB, 27MC, 27MD, 27ME, 27MF, 27MG, 27MH, 27MI, 27MJ, 27MK, 27ML, 27MN, 27MO, 27MP, 27MQ, 27MR, 27MS, 27MT, 27MU, 27MV, 27MW, 27MX, 27MY, 27MZ, 27NA, 27NB, 27NC, 27ND, 27NE, 27NF, 27NG, 27NH, 27NI, 27NJ, 27NK, 27NL, 27NM, 27NO, 27NP, 27NQ, 27NR, 27NS, 27NT, 27NU, 27NV, 27NW, 27NX, 27NY, 27NZ, 27OA, 27OB, 27OC, 27OD, 27OE, 27OF, 27OG, 27OH, 27OI, 27OJ, 27OK, 27OL, 27OM, 27ON, 27OO, 27OP, 27OQ, 27OR, 27OS, 27OT, 27OU, 27OV, 27OW, 27OX, 27OY, 27OZ, 27PA, 27PB, 27PC, 27PD, 27PE, 27PF, 27PG, 27PH, 27PI, 27PJ, 27PK, 27PL, 27PM, 27PN, 27PO, 27PP, 27PQ, 27PR, 27PS, 27PT, 27PU, 27PV, 27PW, 27PX, 27PY, 27PZ, 27QA, 27QB, 27QC, 27QD, 27QE, 27QF, 27QG, 27QH, 27QI, 27QJ, 27QK, 27QL, 27QM, 27QN, 27QO, 27QP, 27QQ, 27QR, 27QS, 27QT, 27QU, 27QV, 27QW, 27QX, 27QY, 27QZ, 27RA, 27RB, 27RC, 27RD, 27RE, 27RF, 27RG, 27RH, 27RI, 27RJ, 27RK, 27RL, 27RM, 27RN, 27RO, 27RP, 27RQ, 27RR, 27RS, 27RT, 27RU, 27RV, 27RW, 27RX, 27RY, 27RZ, 27SA, 27SB, 27SC, 27SD, 27SE, 27SF, 27SG, 27SH, 27SI, 27SJ, 27SK, 27SL, 27SM, 27SN, 27SO, 27SP, 27SQ, 27SR, 27SS, 27ST, 27SU, 27SV, 27SW, 27SX, 27SY, 27SZ, 27TA, 27TB, 27TC, 27TD, 27TE, 27TF, 27TG, 27TH, 27TI, 27TJ, 27TK, 27TL, 27TM, 27TN, 27TO, 27TP, 27TQ, 27TR, 27TS, 27TT, 27TU, 27TV, 27TW, 27TX, 27TY, 27TZ, 27UA, 27UB, 27UC, 27UD, 27UE, 27UF, 27UG, 27UH, 27UI, 27UJ, 27UK, 27UL, 27UM, 27UN, 27UO, 27UP, 27UQ, 27UR, 27US, 27UT, 27UU, 27UV, 27UW, 27UX, 27UY, 27UZ, 27VA, 27VB, 27VC, 27VD, 27VE, 27VF, 27VG, 27VH, 27VI, 27VJ, 27VK, 27VL, 27VM, 27VN, 27VO, 27VP, 27VQ, 27VR, 27VS, 27VT, 27VU, 27VV, 27VW, 27VX, 27VY, 27VZ, 27WA, 27WB, 27WC, 27WD, 27WE, 27WF, 27WG, 27WH, 27WI, 27WJ, 27WK, 27WL, 27WM, 27WN, 27WO, 27WP, 27WQ, 27WR, 27WS, 27WT, 27WU, 27WV, 27WW, 27WX, 27WY, 27WZ, 27XA, 27XB, 27XC, 27XD, 27XE, 27XF, 27XG, 27XH, 27XI, 27XJ, 27XK, 27XL, 27XM, 27XN, 27XO, 27XP, 27XQ, 27XR, 27XS, 27XT, 27XU, 27XV, 27XW, 27XX, 27XY, 27XZ, 27YA, 27YB, 27YC, 27YD, 27YE, 27YF, 27YG, 27YH, 27YI, 27YJ, 27YK, 27YL, 27YM, 27YN, 27YO, 27YP, 27YQ, 27YR, 27YS, 27YT, 27YU, 27YV, 27YW, 27YX, 27YY, 27YZ, 27ZA, 27ZB, 27ZC, 27ZD, 27ZE, 27ZF, 27ZG, 27ZH, 27ZI, 27ZJ, 27ZK, 27ZL, 27ZM, 27ZN, 27ZO, 27ZP, 27ZQ, 27ZR, 27ZS, 27ZT, 27ZU, 27ZV, 27ZW, 27ZX, 27ZY, 27ZZ
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Federal Review - Applicable Federal Regulations:

Regulations:

- Corps regulations (33 CFR 320 through 399)
- Section 101 of Rivers and Harbors Act
- Clean Water Act Sections 401 (Water Quality Certification) and 404 (Wetlands Regulations and 404(b)1 Guidelines)
- Clean Air Act

Other Federal Laws:

- National Historic Preservation Act of 1966, as amended
- Reservoir Safety Act of 1960, as amended
- Emergency Planning Act, as amended
- Federal Water Pollution Control Act, as amended
- Control of Hazardous Substances Act, Title 42, Parts 300 through 308
- Endangered Species Act of 1973
- Fish and Wildlife Conservation Act, as amended
- Land and Water Conservation Fund Act of 1964, as amended
- Marine Mammals, Seals, and Sea Lions Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 - Endangered Species
- Magway Marine Campaign Act
- National Governmental Policy Act (NEPA), as amended
- Wild and Scenic Rivers Act, as amended
- Water Resources Development Act of 1976

Executive Orders:

- Executive Order 11933: Protection and Enhancement of the Cultural Environment, May 13, 1971
- Executive Order 11988: Floodplain Management, May 24, 1977
- Executive Order 11989: Floodplain Management, May 24, 1977
- Executive Order 12127: Implementation Review of Federal Programs, July 14, 1982
- Executive Order 12174: Environmental Check, Record, and Report

Note:

The SUASCO River Stewardship Council advises the National Park Service (NPS) on administration of the National Wild and Scenic River designation to segments of the South, Andover and Concord Rivers. Although it does not have regulatory powers, the Council reviews and comments on water permit and regulatory processes including those of the MEPA, Water Quality Certification, and Chapter 91 Licenses.

The SUASCO Council is composed of representatives from the NPS, the State of Massachusetts, the towns of Andover, Concord, Dunbar, Framingham, Lincoln, Sudbury and Wayland, the Organizational for the Upper River, and the Sudbury Valley Trustees.

