N00102.AR.000721
NSY PORTSMOUTH
5090.3a

DEPARTMENT OF THE NAVY
NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
10 INDUSTRIAL HIGHWAY
MAIL STOP, #82
LESTER, PA 19113-2090

IN REPLY REFER TO

5090
Code 1823/FE

16 AUG 1999

Ms. Meghan Cassidy
U.S. Environmental Protection Agency, Region I
JFK Federal Building HBT
Boston, MA 02203-2211

Mr. Iver McLeod
Maine Department of Environmental Protection
State House Station 17
Augusta, ME 04333-0017

Subj: Emergency Removal Action at DRMO, Installation Restoration Program, Portsmouth Naval Shipyard, Kittery, ME

Dear Ms. Cassidy/Mr. McLeod:

In the last few weeks the Navy has become aware of the erosion along the shoreline at Site 6, the Defense Reutilization and Marketing Office (DRMO), Portsmouth Naval Shipyard's (PNS) Installation Restoration (IR) Program. The Navy has taken following actions to address the situation:

1. Took soil samples the soil in the area of the erosion for laboratory analysis of metals, enclosure (1).

2. The Navy has contracted to perform an emergency action to stabilize the embankment which is anticipated to be completed this Fall. Enclosure (2) provides preliminary sketches of the design the Navy proposes to use for stabilizing the embankment.

Please provide any comments/suggestions on enclosure (2) as soon as possible. We plan on submitting a Draft Design/Work Plan on or before September 20, 1999 for expedited review in order to complete construction this Fall.

At the current time, the Navy is planning to decommit funds awarded to other projects to fund this Emergency Removal Action. However, next fiscal year PNS IR projects may need to be postponed to replace those funds depending on cost underruns/overruns of other projects.

If additional information is required, please contact me at 610-595-0567, x159.

CTO 166

Subj: Emergency Removal Action at DRMO, Installation Restoration Program, Portsmouth Naval Shipyard, Kittery, ME

For the Community Restoration Advisory Board (RAB) members; if you have any comments or questions on these issues, they can be provided to the Navy at a RAB meeting, by calling the Public Affairs Office at (207) 438-1140 or by writing to:

Portsmouth Naval Shipyard
Code 106.3R Bldg 44
Attn Marty Raymond
Portsmouth, NH 03804-5000

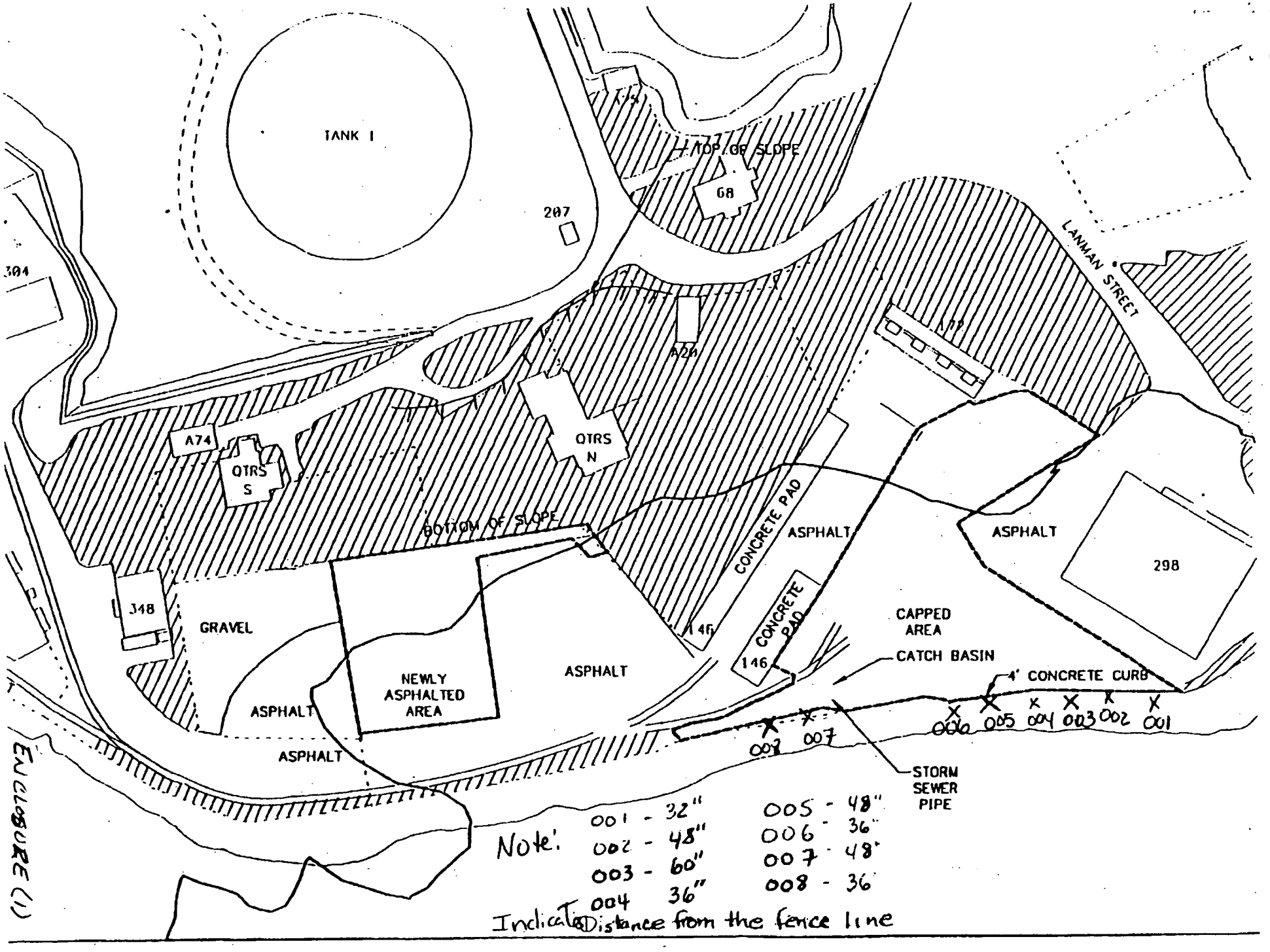
Sincerely,

Frederick J. Evans

FREDERICK J. EVANS, P.E.
Remedial Project Manager
By direction of the
Commanding Officer

Copy to:

NOAA (K. Finkelstein)
ME Dept. of Marine Resources (D. Card)
Mr. Doug Bogen
Ms. Michele Dionne
Ms. Mary Marshall
Mr. Jack McKenna
Mr. Onil Roy
Dr. Roger Wells
PNS Code 100PAO
PNS (Code 106.3R, M. Raymond)
US Fish & Wildlife Service (K. Munney)
NH Fish & Game (J. Nelson)
Mr. Jeff Clifford
Ms. Eileen Foley
Mr. Phil McCarthy
Ms. Mary Menconi
Mr. Peter Vandermark
Ms. Carolyn Lepage
TetraTech NUS (L. Klink, D. Cohen)
COMSUBGRU TWO (R. Jones)


TANK 1
TOP OF SLOPE
68
207
LANMAN STREET
A26
A74
QTRS S
QTRS N
BOTTOM OF SLOPE
CONCRETE PAD
ASPHALT
ASPHALT
298
348
GRAVEL
146
CONCRETE PAD
146
CAPPED AREA
CATCH BASIN
4' CONCRETE CURB
NEWLY ASPHALTED AREA
ASPHALT
ASPHALT
ASPHALT
006 005 004 003 002 001
008 007
STORM SEWER PIPE
Note: 001 - 32" 005 - 48"
002 - 48" 006 - 36"
003 - 60" 007 - 48"
004 36" 008 - 36
Indicate Distance from the fence line

ENCLOSURE (1)

CTO232 - PORTSMOUTH NSY
SOIL DATA
KATAHDIN
SDG: WP3444

SAMPLE NUMBER:	99PT01071-001			99PT01071-002			99PT01071-003			99PT01071-004		
SAMPLE DATE:	07/29/99			07/29/99			07/29/99			07/29/99		
LABORATORY ID:	WP3444-1			WP3444-2			WP3444-3			WP3444-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	95.7 %			98.6 %			98.6 %			97.5 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	12800	*		9980	*		15000	*		15400	*	
ANTIMONY	18.6			279			72.7			47.0		
ARSENIC	19.0			28.3			27.6			20.7		
BARIUM	84.3	N*		571	N*		367	N*		280	N*	
BERYLLIUM	0.70	BN		1.4	N		0.66	BN		0.59	BN	
CADMIUM	1.5	N		8.8	N		1.6	N		1.2	BN	
CALCIUM	1550			8580			17200			13900		
CHROMIUM	91.7	*		357	*		75.6	*		65.0	*	
COBALT	12.8	N		30.0	N		18.8	N		14.8	N	
COPPER	167	*		1220	*		9480	*		716	*	
IRON	29800	*		70800	*		31300	*		28700	*	
LEAD	11800	E		110000	E		55200	E		18900	E	
MAGNESIUM	7350	*		5910	*		11100	*		10300	*	
MANGANESE	574	*		920	*		612	*		450	*	
NICKEL	215			1340			138			86.8		
POTASSIUM	1740	N		2120	N		4420	N		4400	N	
SELENIUM	1.1	B		0.75	B		4.2			0.41	U	
SILVER	0.22	B		1.9	B		0.71	B		0.11	U	
SODIUM	216			330			304			425		
THALLIUM	0.64	U		2.3	B		2.0	B		0.72	U	
THALLIUM-GF	0.16	B		0.46	B		0.20	B		0.26	B	
VANADIUM	32.7	N		36.2	N		40.3	N		40.8	N	
ZINC	366	*		4930	*		2060	*		1820	*	

CTO232 - PORTSMOUTH NSY
SOIL DATA
KATAHDIN
SDG: WP3444

SAMPLE NUMBER:	99PT01071-005			99PT01071-006			99PT01071-007			99PT01071-008		
SAMPLE DATE:	07/29/99			07/29/99			07/29/99			07/29/99		
LABORATORY ID:	WP3444-5			WP3444-6			WP3444-7			WP3444-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	97.5 %			99.4 %			96.4 %			96.2 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	13300	*		13400	*		16200	*		16500	*	
ANTIMONY	7.5			2.8			20.2			74.0		
ARSENIC	21.5			22.6			15.5			18.2		
BARIUM	258	N*		114	N*		472	N*		424	N*	
BERYLLIUM	0.57	BN		0.54	BN		32.2	N		28.0	N	
CADMIUM	2.9	N		2.1	N		2.0	BN		2.2	BN	
CALCIUM	13800			16100			7680			15100		
CHROMIUM	77.0	*		79.5	*		204	*		120	*	
COBALT	17.7	N		19.2	N		122	N		92.4	N	
COPPER	604	*		123	*		2980	*		2490	*	
IRON	37200	*		26900	*		90800	*		76800	*	
LEAD	4630	E		560	E		6860	E		4450	E	
MAGNESIUM	9210	*		11000	*		9190	*		11600	*	
MANGANESE	1020	*		710	*		1020	*		985	*	
NICKEL	147			266			638			367		
POTASSIUM	3570	N		3740	N		2860	N		3800	N	
SELENIUM	0.44	U		0.52	B		3.2	B		1.3	B	
SILVER	0.40	B		0.12	U		1.7	B		0.59	B	
SODIUM	368			307			1380			1230		
THALLIUM	0.77	U					2.0	U				
THALLIUM-GF	0.26	B		0.18	U		0.16	U		0.17	U	
VANADIUM	41.0	N		37.5	N		46.0	N		42.4	N	
ZINC	2750	*		754	*		19900	*		15800	*	

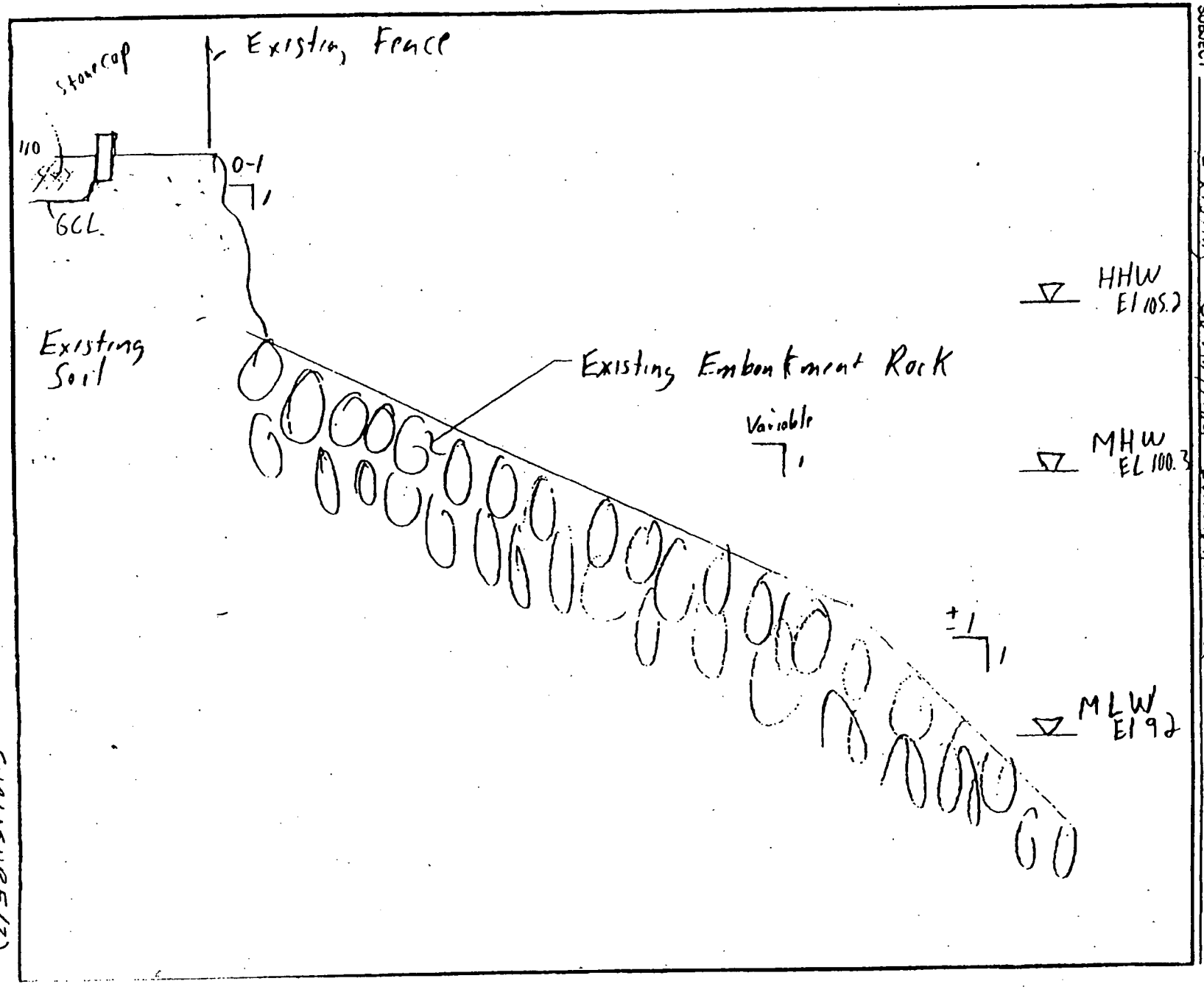
FOSTER WHEELER ENVIRONMENTAL CORPORATION

BY CJT DATE 8-4-99 CHKD. BY _____ DATE _____ OFS NO. _____ SHEET 1 OF 10

CLIENT US Navy - Portsmouth NSY Kittery, ME DEPT. NO. _____

PROJECT DRMO Area Shoreline Stabilization

SUBJECT Existing Conditions - Embankment Rock



FWENC 581D 10/96

ENCLOSURE (2)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

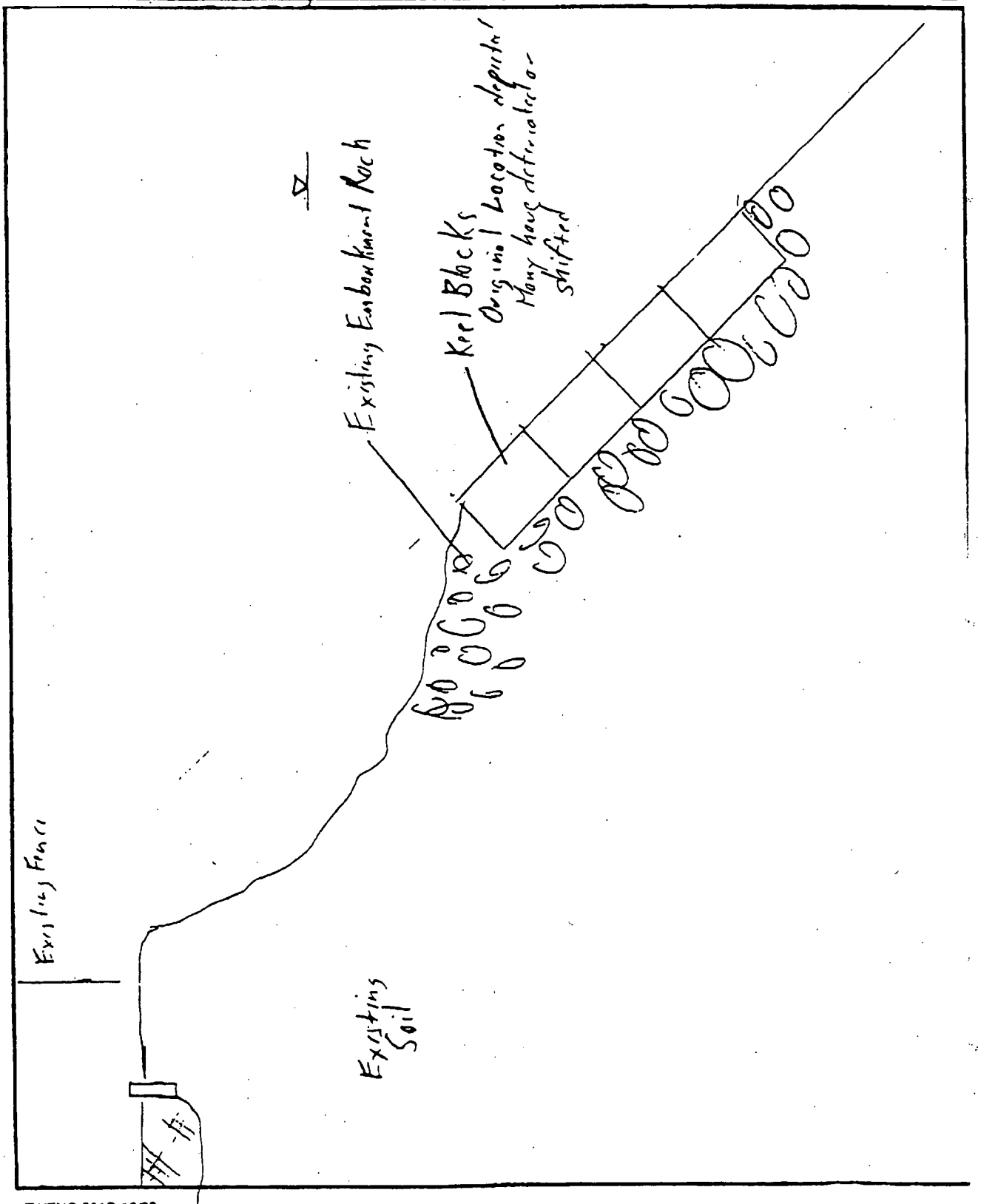
BY _____ DATE _____ SHEET 2 OF 6

CHKD. BY _____ DATE _____ OFS NO. _____ DEPT. NO. _____

CLIENT _____

PROJECT _____

SUBJECT Existing Condition - Keel Block



FROM FOSTER WHEELER ENVIRONMENTAL

FOSTER WHEELER ENVIRONMENTAL CORPORATION

BY _____ DATE _____

CHKD. BY _____ DATE _____

CLIENT _____

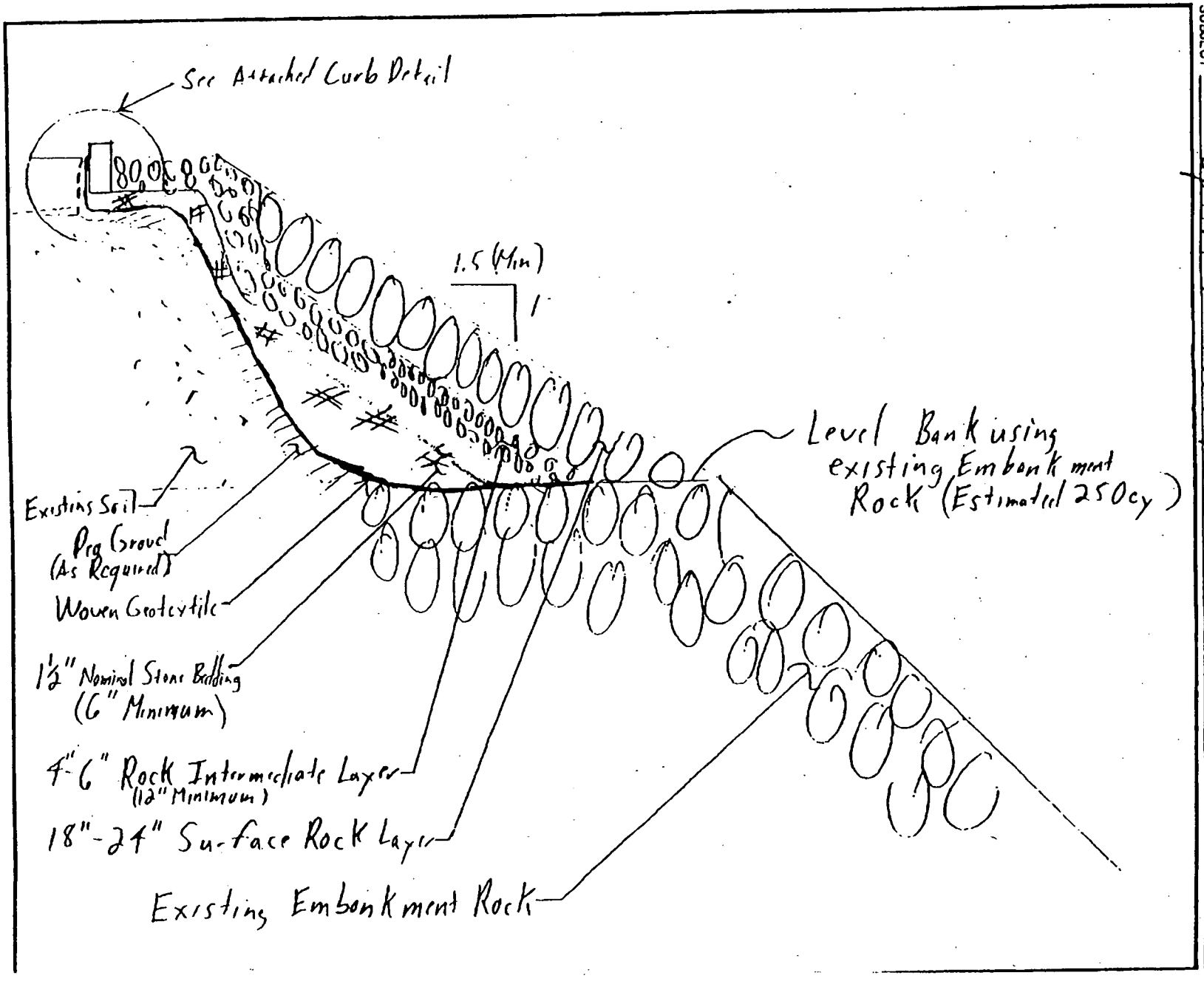
PROJECT _____

SUBJECT Option 1 Rock Revetment

OFS NO. _____

SHEET 3 OF ___

DEPT. NO. _____



FWENC 581D 10/96

FOSTER WHEELER ENVIRONMENTAL CORPORATION

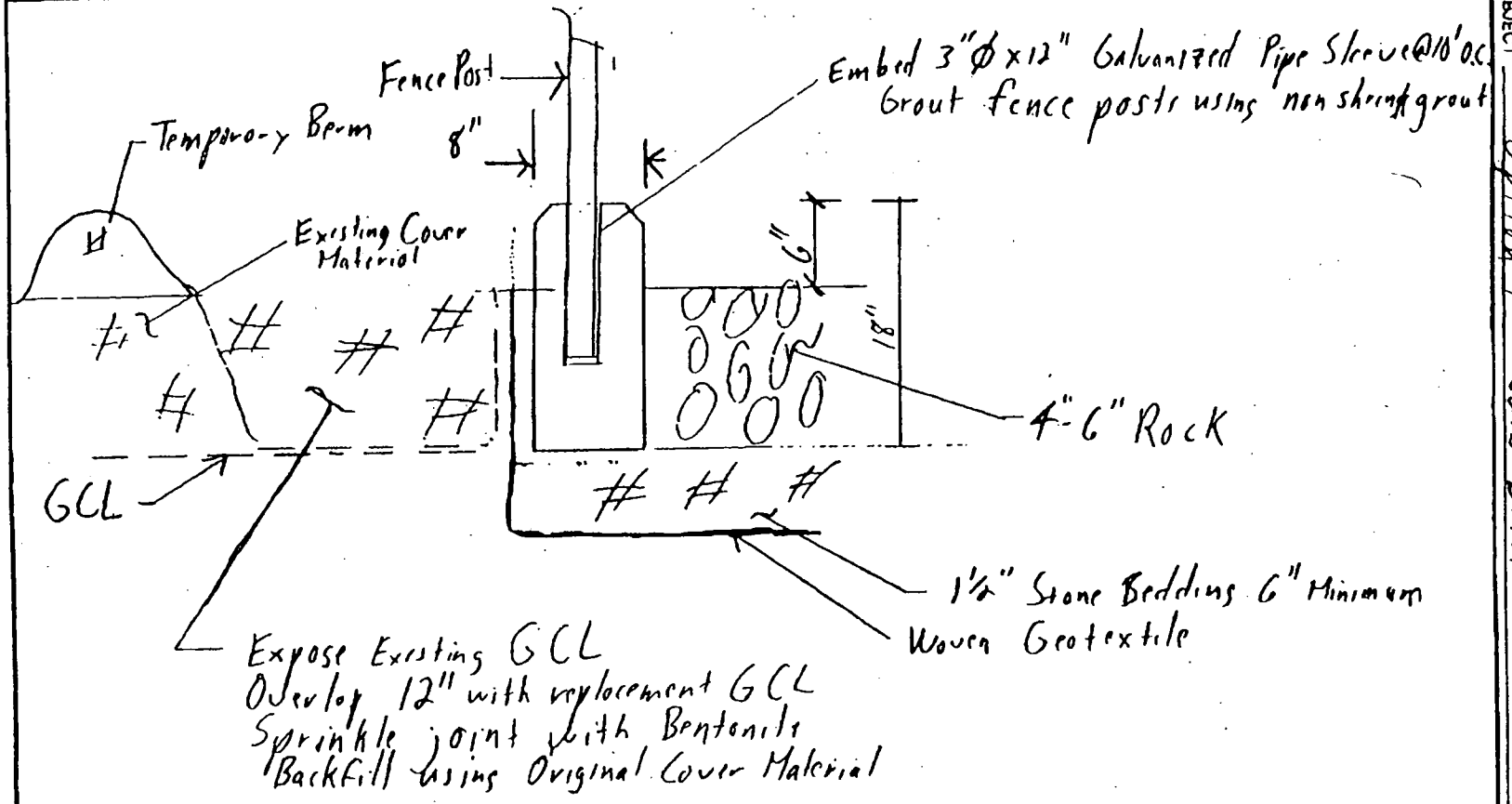
BY _____ DATE _____ SHEET 4 OF _____

CHKD. BY _____ DATE _____ DEPT. NO. _____

CLIENT _____ OFS NO. _____

PROJECT _____

SUBJECT Option 1 - Curb Detail



Existing Concrete Curb shall be removed and replaced with the above detail

Concrete shall be 3500psi. Expansion joints shall be provided every 100ft
Contraction joints shall be saw cut every 10 ft, Chamfer top corners

FWENC 581D 10/96

FROM FOSTER WHEELER NORTHBRIDGE

FOSTER WHEELER ENVIRONMENTAL CORPORATION

BY _____ DATE _____ SHEET 5 OF _____

CHKD. BY _____ DATE _____ OFS NO. _____ DEPT. NO. _____

CLIENT _____

PROJECT _____

SUBJECT Option 1 Rock Revetment

General Sequence

1. Remove and dispose existing curb. Use existing cap material to create a temporary berm
2. Remove and dispose existing fence.
3. Remove and dispose of keel blocks and other debris on slope
4. Regrade existing embankment rock to form a level bench
5. Cover existing soil surface with pea gravel
6. Lay geotextile along slope. Overlap seams 12". Seams to be perpindicular to slope
7. Place 1½" bedding stone
8. Pour concrete curb
9. Lap GCL and backfill behind curb
10. Place 4"-6" Rock
11. Place 18"-24" Surface Rock
12. Replace fence

FWENC 581D 10/96

FOSTER WHEELER ENVIRONMENTAL CORPORATION

BY _____ DATE _____ SHEET 6 OF _____

CHKD. BY _____ DATE _____ OFS NO. _____ DEPT. NO. _____

CLIENT _____

PROJECT _____

SUBJECT Quantity Take Off

Option 1 650 lf revetment

Offsite Disposal	1200 Tons Concrete
Pea Gravel	250 Tons
1 1/2" Stone	1500 Tons
4-6" Rock	1800 Tons
18-24" Rock	1500 Tons
Geotextile	16,000 SF
Concrete	25 cy

FWENC 581D 10/96