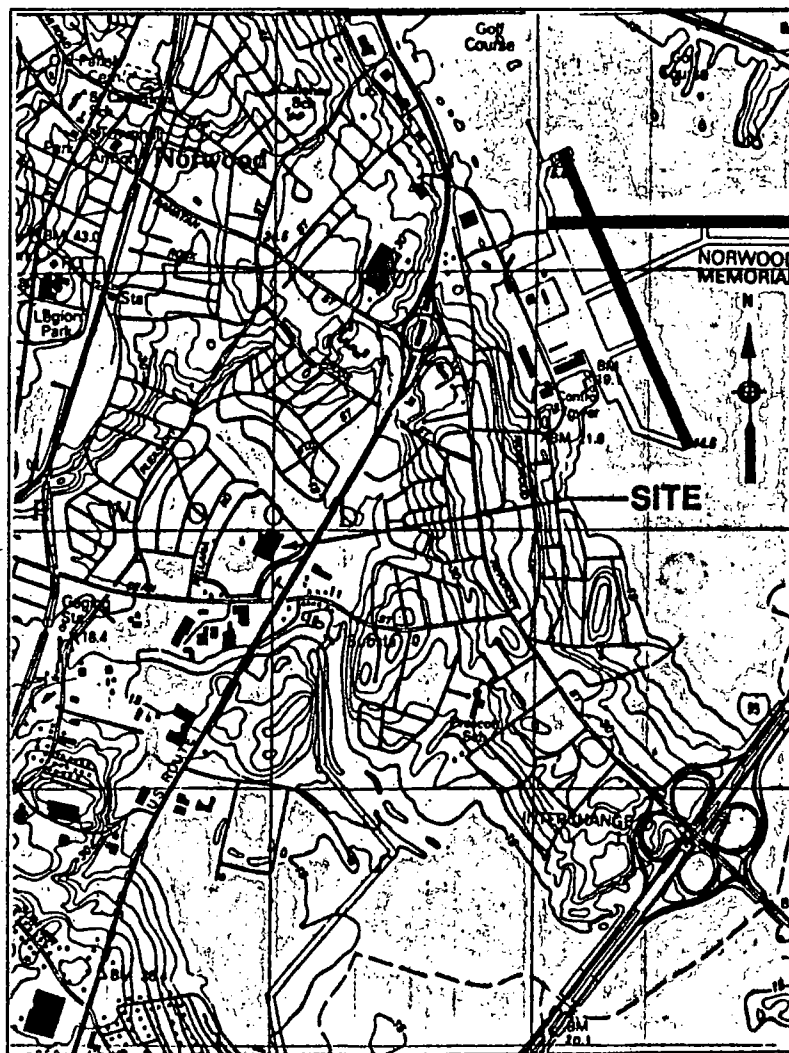
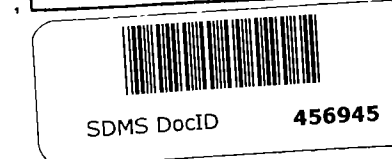


US Army Corps
of Engineers
New England Division

US Environmental Protection
Agency Region I

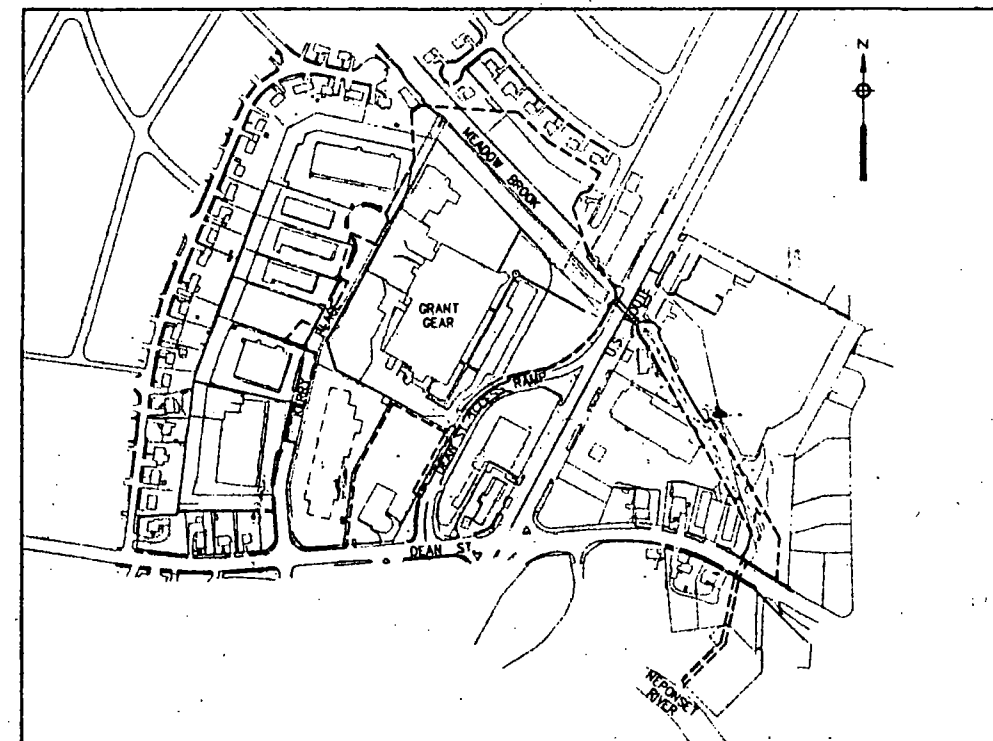
NORWOOD PCB SITE SOIL REMEDIATION NORWOOD, MASSACHUSETTS

SUPERFUND RECORDS CTR
Site: Norwood PCB
Break: 6.4
Other: 456945



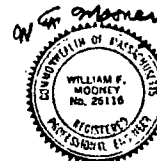
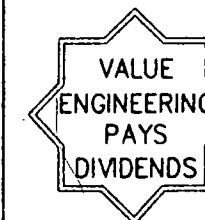
LOCUS MAP

SCALE 1" = 1200'
1200 0 1200 2400
SCALE FEET



VICINITY MAP

SCALE: 1" = 300'
300 0 300 600
SCALE FEET



SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDEXED ON SHEET C-2.
APPROVED FOR ENVIRONMENTAL ADEQUACY BY:
ENGINEER MANAGER [Signature] 8/15/94 DATE
APPROVAL RECOMMENDED BY: [Signature] 8/16/94 DATE
CHIEF ENGINEERING MGMT. DIV.
APPROVED BY: [Signature] 8/16/94 DATE
DIRECTOR OF ENGINEERING
(AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)

SYMBOLS	REVISIONS	DATE	APPROVED
DESCRIPTIONS			
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS			
DESIGNED BY: S. OBRIEN		U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I	
DRAWN BY: K. LETCH		NORWOOD PCB SITE SOIL REMEDIATION	
REVIEWED BY: <u>[Signature]</u>		COVER SHEET	
SUBMITTED BY: <u>[Signature]</u>		SOLICITATION NUMBER:	
APPROVAL RECOMMENDED BY: (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)		DRAWING CODE:	
SCALE: AS SHOWN		NOS-2	
DATE: AUGUST 1994		SHEET REFERENCE:	
CADD NO: SRCOVER.DWG		G-1	
		SHEET 1 OF 23	

04504

INDEX TO DRAWINGS

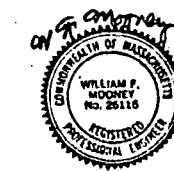
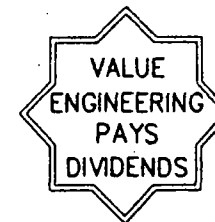
SHEET NO.	SHEET REF. NO.	TITLE
1	G-1	COVER SHEET
2	G-2	INDEX, LEGEND, ABBREVIATIONS AND SYMBOLS
3	C-1	SITE PLAN
4	C-2	SOIL PROCESSING FACILITY SITE PLAN
5	C-3	EXCAVATION PLAN I
6	C-4	EXCAVATION PLAN II
7	C-5	EXCAVATION PLAN III
8	C-6	EXCAVATION PLAN IV
9	C-7	REMOVALS PLAN I
10	C-8	REMOVALS PLAN II
11	C-9	REMOVALS PLAN III
12	C-10	REMOVALS PLAN IV
13	C-11	RESTORATION PLAN I
14	C-12	RESTORATION PLAN II
15	C-13	RESTORATION PLAN III
16	C-14	RESTORATION PLAN IV
17	C-15	GROUNDWATER EXTRACTION WELL, MONITORING WELL, AND SOIL BORING LOCATION PLAN
18	C-16	MEADOW BROOK SECTIONS I
19	C-17	MEADOW BROOK SECTIONS II
20	C-18	MEADOW BROOK SECTIONS III
21	C-19	CIVIL DETAILS AND DEAN ST. CULVERT PLAN & PROFILE
22	C-20	HAUL ROUTES
23	C-21	PERMANENT TREATED GROUNDWATER DISCHARGE PIPE PROFILE

ABBREVIATIONS AND SYMBOLS

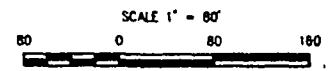
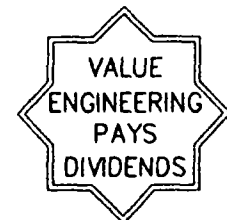
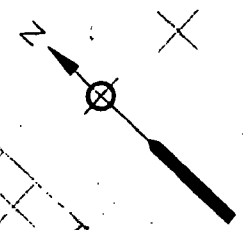
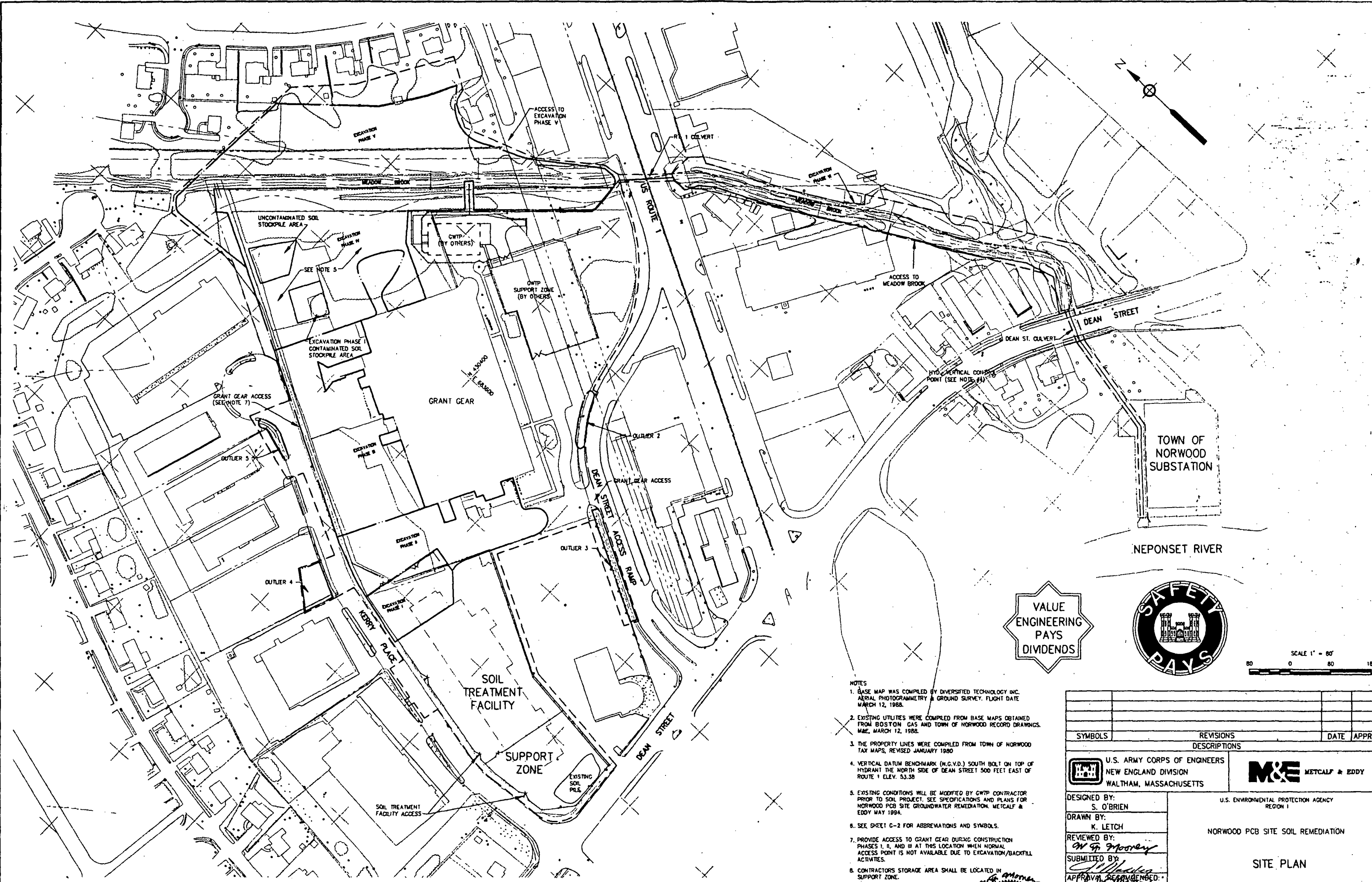
NEW	EXISTING	DESCRIPTION
---	---	LIMIT OF WORK
---	---	LIMIT OF EXCAVATION
---	---	PROPERTY LINE
---	---	EASEMENT LINE
~56~	~56~	GROUND CONTOUR
*50.5	*50.7	SPOT ELEVATION
~~~~~	~~~~~	EDGE OF STREAM
~~~~~	~~~~~	TREE LINE
○	○	LONE TREE
○○○○○○	○○○○○○	HEDGE
▭	▭	BUILDING/STRUCTURE
▭	▭	BUILDING/STRUCTURE
—+—+—	—+—+—	GUARD RAIL
—+—+—	—+—+—	FILTER FENCE
—+—+—	—+—+—	SEDIMENT BARRIER
—+—+—	—+—+—	CHAIN LINK FENCE
====	====	5' CONCRETE RETAINING WALL
—NW—	—W—	WATER
—W—	—W—	WATER (BY OTHERS)
—NG—	—G—	GAS
—G—	—G—	GAS (BY OTHERS)
—NS—	—S—	SEWER
—S—	—S—	SEWER (BY OTHERS)
—ND—	—D—	DRAINAGE
—NCD—	—NCD—	CONTAMINATED DRAINAGE
—GW—	—GW—	GROUNDWATER EXTRACTION WELL PIPING (BY OTHERS)
—TW—	—TW—	TEMPORARY TREATED GROUNDWATER DISCHARGE PIPE (BY OTHERS)
—NTW—	—NTW—	PERMANENT TREATED GROUNDWATER DISCHARGE PIPE
—U/G-P—	—U/G-P—	UNDERGROUND ELECTRIC
—O/H-P—	—O/H-P—	OVERHEAD ELECTRIC
—U/G-T—	—U/G-T—	UNDERGROUND TELEPHONE
—O/H-T—	—O/H-T—	OVERHEAD TELEPHONE
→	→	ACCESS/HAUL ROUTES
○ SMH	○ SMH	OVERHEAD ELECTRIC
○ DMH	○ DMH	OVERHEAD LIGHTING
□	□	MANHOLE (SEWER)
◇	◇	MANHOLE (DRAIN)
◇	◇	CATCH BASIN
◇	◇	FIRE HYDRANT
○ ER-1	○ ER-1	GROUNDWATER EXTRACTION WELL
◇ WW-1	◇ WW-1	MONITORING WELL
◇ ME-1	◇ ME-1	MONITORING WELL
◇ B-1	◇ B-1	MONITORING WELL
◇ MR-1	◇ MR-1	MONITORING WELL
◇ ES-1	◇ ES-1	MONITORING WELL
● EB-1	● EB-1	GROUNDWATER EXTRACTION WELL (BY OTHERS)
◆ WW-1	◆ WW-1	MONITORING WELL (BY OTHERS)
●	●	SOIL BORING
□	□	AIR MONITORING STATION
○	○	UTILITY POLE
×	×	VALVE IN VALVE BOX

ABBREVIATIONS

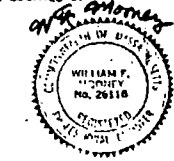
BM	BENCH MARK
BIT. PAVE.	BITUMINOUS CONCRETE PAVEMENT
℄	CENTERLINE
C.O.	CLEANOUT
CONC.	CONCRETE
DIA.	DIAMETER
DR	DRIVE
E	EAST
EL., ELEV.	ELEVATION
EXIST.	EXISTING
GWTP	GROUNDWATER TREATMENT PLANT
HYD.	HYDRANT
H.P.	HIGH PRESSURE
INV.	INVERT
MH	MANHOLE
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
POC	POINT OF CONNECTION
PROP	PROPERTY
R	RADIUS
ROW	RIGHT-OF-WAY
SRC	SOIL REMEDIATION CONTRACTOR
TRANS. CURB	TRANSITION CURB
TYP	TYPICAL
USC & GS	UNITED STATES COAST & GEODETIC SURVEY
VERT.	VERTICAL
WL	WATER LEVEL
W/	WITH
YR.	YEAR



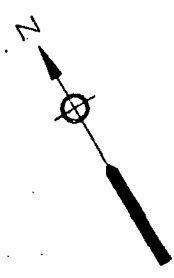
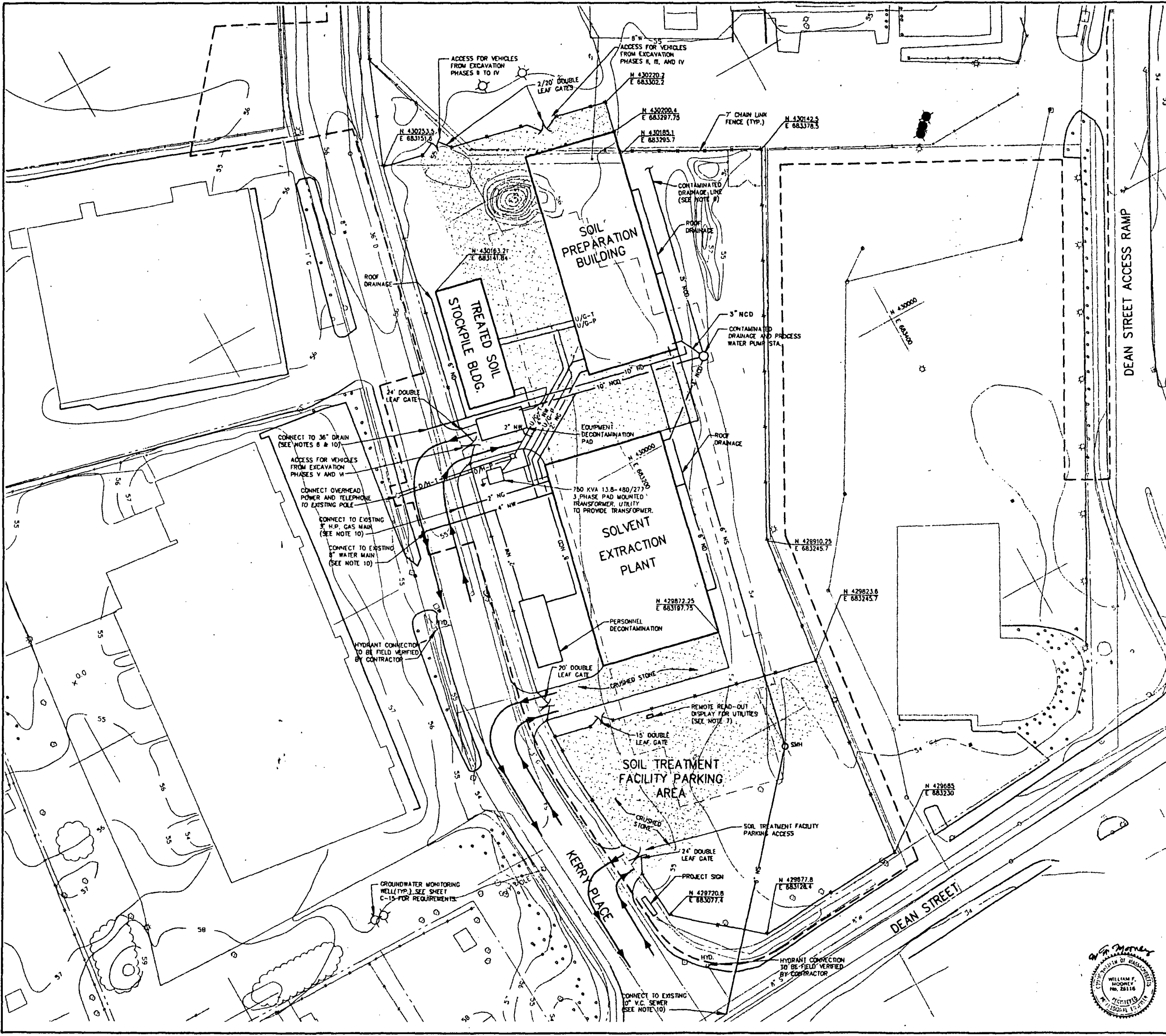
SYMBOLS	REVISIONS	DATE	APPROVED
<div style="display: flex; justify-content: space-between;"> <div> <p>U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS</p> </div> <div> <p>M&E METCALF & EDDY</p> </div> </div>			
DESIGNED BY: S. O'BRIEN		U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1	
DRAWN BY: K. LETCH		NORWOOD PCB SITE SOIL REMEDIATION	
REVIEWED BY: <i>W. F. Mooney</i>		INDEX, LEGEND, ABBREVIATIONS AND SYMBOLS	
SUBMITTED BY: <i>W. F. Mooney</i>		SOLICITATION NUMBER:	
APPROVAL RECOMMENDED: <small>(AS REQUIRED BY ENGINEERING REGULAR NO. 1119-1-78)</small>		DRAWING CODE: NOS-2	
SCALE: NONE		SHEET REFERENCE: G-2	
DATE: AUGUST 1994		SHEET 2 OF 23	
CADD NO: CZNOR015.DWG			



- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. VERTICAL DATUM BENCHMARK (N.G.V.D.) SOUTH BOLT ON TOP OF HYDRANT THE NORTH SIDE OF DEAN STREET 500 FEET EAST OF ROUTE 1 ELEV. 53.30
 5. EXISTING CONDITIONS WILL BE MODIFIED BY CWTIP CONTRACTOR PRIOR TO SOIL PROJECT. SEE SPECIFICATIONS AND PLANS FOR NORWOOD PCB SITE GROUNDWATER REMEDIATION. METCALF & EDDY MAY 1994.
 6. SEE SHEET C-2 FOR ABBREVIATIONS AND SYMBOLS.
 7. PROVIDE ACCESS TO GRANT GEAR BURKING CONSTRUCTION PHASES I, II, AND III AT THIS LOCATION WHEN NORMAL ACCESS POINT IS NOT AVAILABLE DUE TO EXCAVATION/BACKFILL ACTIVITIES.
 8. CONTRACTORS STORAGE AREA SHALL BE LOCATED IN SUPPORT ZONE.



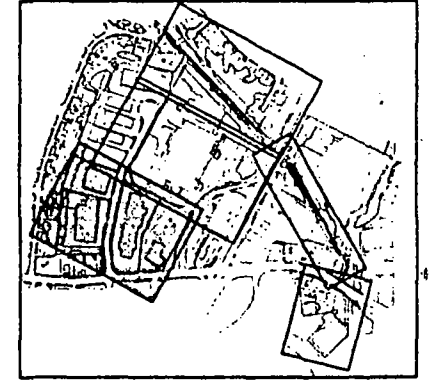
SYMBOLS		REVISIONS		DATE	APPROVED
<p>U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS</p> <p>M&E METCALF & EDDY</p> <p>DESIGNED BY: S. O'BRIEN DRAWN BY: K. LETCH REVIEWED BY: <i>W. F. O'Brien</i> SUBMITTED BY: <i>W. F. O'Brien</i> APPROVED AND FORWARDED: <i>W. F. O'Brien</i> CHIEF DESIGN DIVISION COE (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1119-1-78) SCALE: 1"=80'</p> <p>U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1</p> <p>NORWOOD PCB SITE SOIL REMEDIATION</p> <p>SITE PLAN</p>					
SOLICITATION NUMBER:		SHEET REFERENCE:			
DRAWING CODE:		C-1			
DATE: AUGUST 1994		SHEET 3 OF 23			
CADD NO: CZNR001.DWG		NOS-2			



- NOTES
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980
 4. AREA SIZING AND LOCATION FOR GENERAL ORIENTATION ONLY. FIRM CONFIGURATION, ARRANGEMENT, SIZING FOR THE SOIL PROCESSING FACILITY TO BE PROVIDED BY THE CONTRACTOR.
 5. DRAINAGE FROM THE SOLVENT EXTRACTION PLANT, TREATED SOIL STORAGE BLDG. EQUIPMENT DECONTAMINATION PAD AND SOIL PREPARATION BLDG. FLOOR DRAINS FLOWS BY GRAVITY TO THE DRAINAGE AND PROCESS WATER PUMP STATION AND IS PUMPED TO THE CWTIP.
 6. ROOF DRAINAGE FROM THE SOIL PREPARATION BLDG. AND THE TREATED SOIL STORAGE BLDG. FLOWS TO KERRY PLACE DRAIN.
 7. GAS AND WATER UTILITY BILLING METERS AND AN ELECTRIC METERING TO BE MOUNTED IN ACCORDANCE WITH ELECTRIC UTILITY REQUIREMENTS. (MOUNTED 4"-6" ABOVE FINISHED GRADE). REMOTE METERS MUST INCLUDE THEIR OWN CIRCUIT BREAKER PER POWER COMPANY REQUIREMENTS. (SEE SPECIFICATION SECTION 01000 FOR ADDITIONAL UTILITY METERING REQUIREMENTS). ROUTE OF CONDUIT FOR METERING WIRES IS LEFT TO THE CONTRACTOR.
 8. SEE SHEET C-2 FOR ABBREVIATIONS AND SYMBOLS
 9. CONTAMINATED DRAINAGE LINE TO BE INSTALLED ABOVE GROUND. CONNECT TO P.O.C. FOR DEWATERING AND CONTAMINATED DRAINAGE FLOW SHOWN ON C-5. ROUTING OF LINE SHALL BE RELOCATED AS NECESSARY TO ALLOW FOR EXCAVATION AND ACCESS TO GRANT GEAR.
 10. P.O.C. FOR UTILITIES AND DRAINS TO BE VERIFIED BY CONTRACTOR. SIZES AND ARRANGEMENT OF UTILITIES AND DRAINS TO BE PROVIDED BY THE CONTRACTOR TO SUIT THE CONTRACTOR'S SOIL PROCESSING FACILITY.

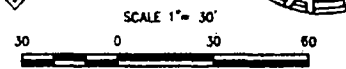
LEGEND

CRUSHED STONE



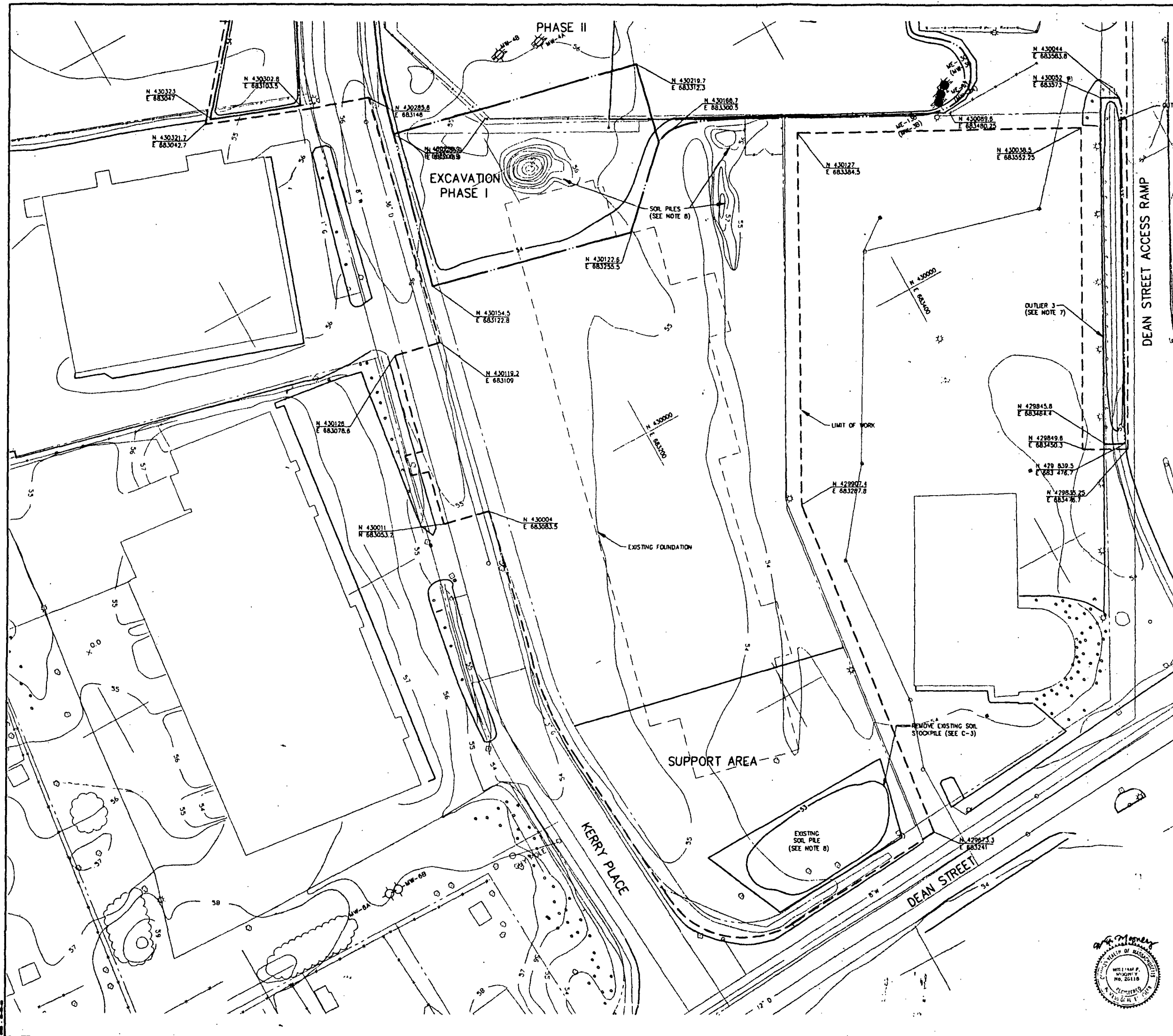
KEY MAP

VALUE ENGINEERING PAYS DIVIDENDS



SYMBOLS				REVISIONS		DATE		APPROVED	
DESCRIPTIONS									
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS				M&E METCALF & EDDY					
DESIGNED BY: S. O'BRIEN				U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I					
DRAWN BY: K. LETCH				NORWOOD PCB SITE SOIL REMEDIATION					
REVIEWED BY: <i>W. J. Moorely</i>				SOIL PROCESSING FACILITY SITE PLAN					
SUBMITTED BY: <i>W. J. Moorely</i>				APPROVAL RECOMMENDED: <i>William F. Moorely</i> CHIEF OF SURVEYING SECTION (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)					
SCALE: 1"=30'				SOLICITATION NUMBER:		SHEET REFERENCE:			
DATE: AUGUST 1994				DRAWING CODE: NOS-2		C-2			
CADD NO: CZNOR002.DWG						SHEET 4 OF 23			

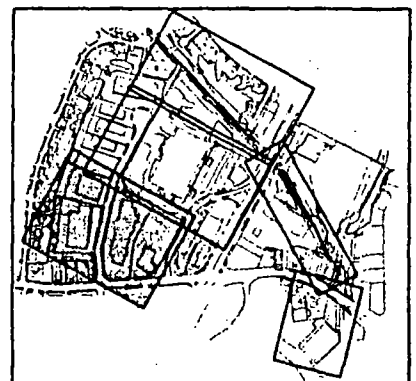




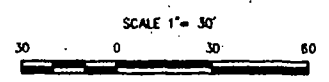
- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTODIAGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M.E. MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. EXCAVATION SEQUENCING DETAILED IN SPECIFICATION SECTION 02020.
 5. AVERAGE GROUNDWATER ELEVATIONS RANGE FROM 47.50' TO 48.00' OVER THE AREA OF EXCAVATION.
 6. 100 YEAR FLOOD ELEVATION IS 49.5 MGD.
 7. EXCAVATION FROM OUTLIER 3 TO OCCUR WITH EXCAVATION PHASE II.
 8. REMOVAL AND EXCAVATION OF SOIL PILES TO OCCUR DURING EXCAVATION PHASE I. REMOVAL REQUIRED PRIOR TO CONSTRUCTION OF SOIL TREATMENT FACILITY.
 9. SEE SHEET C-7 FOR REMOVALS.
 10. SEE SHEET C-2 FOR ABBREVIATIONS AND SYMBOLS.

LEGEND

— 52 — EXCAVATION ELEVATION, ESTIMATED VERTICAL LIMIT OF CONTAMINATED SOIL REMOVAL

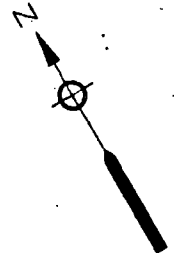
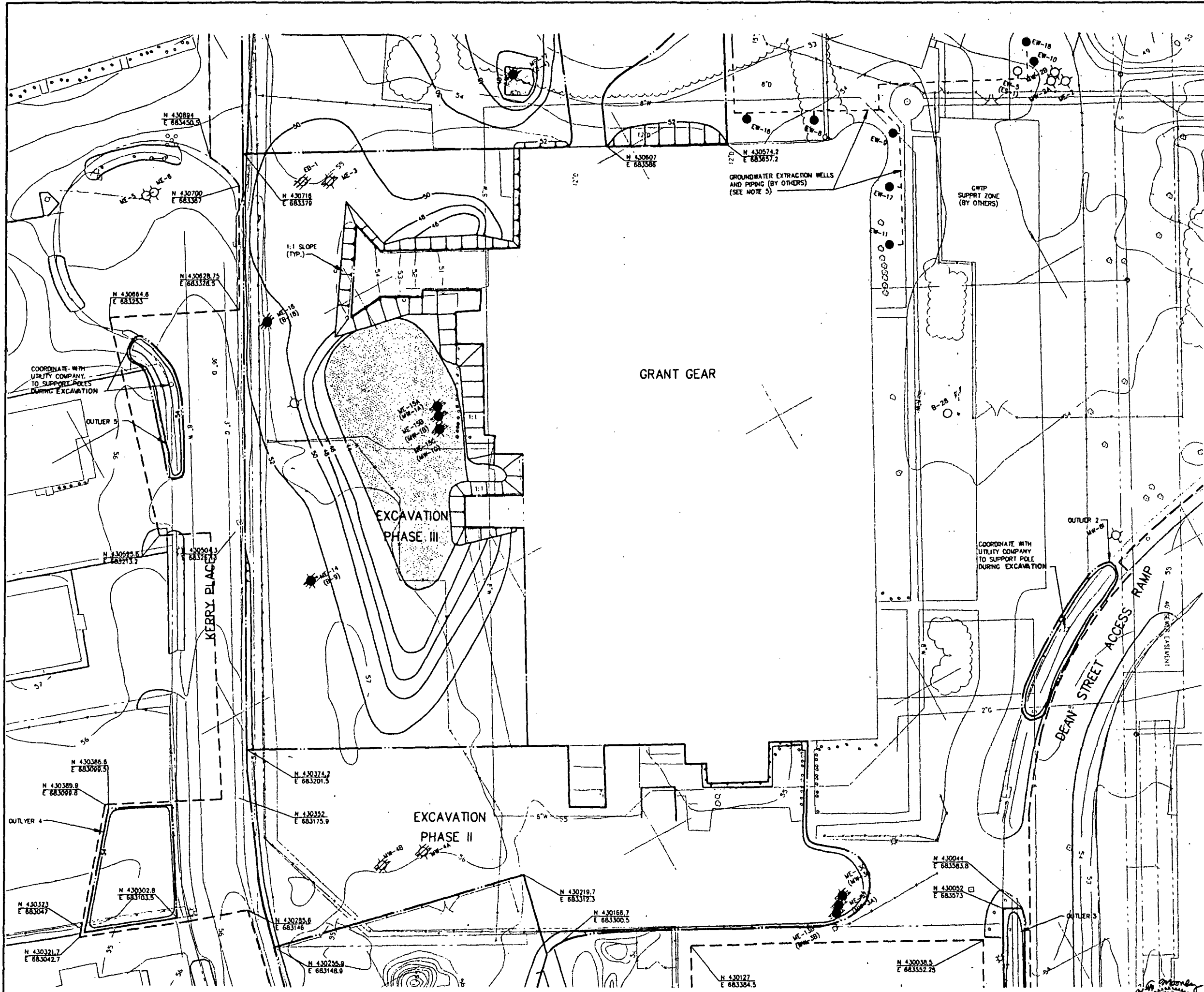


KEY MAP



SYMBOLS	REVISIONS	DATE	APPROVED
DESCRIPTIONS			
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS		M&E METCALF & EDDY	
DESIGNED BY: S. O'BRIEN	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I		
DRAWN BY: K. LETCH	NORWOOD PCB SITE SOIL REMEDIATION		
REVIEWED BY: <i>[Signature]</i>	EXCAVATION PLAN I		
SUBMITTED BY: <i>[Signature]</i>			
APPROVAL/RECOMMENDED: <i>[Signature]</i> CHIEF DESIGN DIVISION CO. (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)			
SCALE: 1"=30'	SOLICITATION NUMBER:	SHEET REFERENCE	
DATE: AUGUST 1994	DRAWING CODE: NOS-2	C-3	
CADD NO: C2NOR003.DWG		SHEET 5 OF 23	

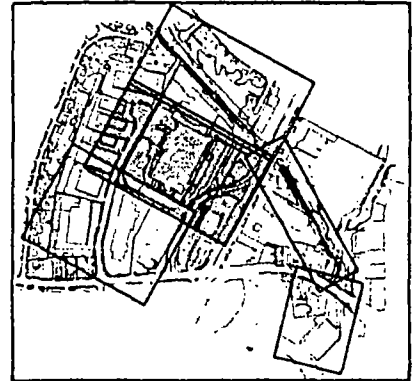




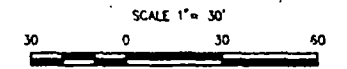
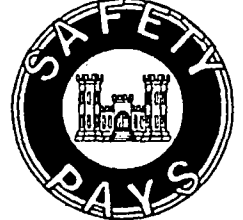
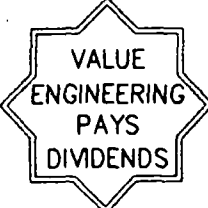
- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. EXCAVATION SEQUENCING DETAILED IN SPECIFICATIONS SECTION 02020.
 5. GWTP AND EXTRACTION WELLS SHOWN ARE TO BE CONSTRUCTED BY GWTP CONTRACTOR. GWTP CONTRACTOR WILL INSTALL ADDITIONAL EXTRACTION WELLS AFTER SOIL REMEDIATION COMPLETE. COORDINATION WITH GWTP CONTRACTOR REQUIRED.
 6. 100 YEAR FLOOD ELEVATION IS 49.5 FT NGVD.
 7. EXCAVATION OF OUTLIER 2, 3, 4, AND 5 TO BE PERFORMED AS PART OF EXCAVATION PHASE III.
 8. SLOPE OF EXCAVATION ADJACENT TO BUILDING NOT TO EXCEED 1:1. (SEE SPECIFICATION SECTION 01040 FOR CONFIRMATORY SAMPLING REQUIREMENTS). RECORD AS REQUIRED IN SPECIFICATION SECTION 01430 THE AREAS WHERE CONTAMINATED SOIL IS TO REMAIN.
 9. SEE SHEET C-8 FOR REMOVALS.
 10. SEE SHEET C-2 FOR ABBREVIATIONS AND SYMBOLS.
 11. AVERAGE GROUNDWATER ELEVATIONS RANGE FROM 47.50' TO 48.00' OVER THE AREA OF EXCAVATION.

LEGEND

- 52 — EXCAVATION ELEVATION, VERTICAL LIMIT OF CONTAMINATED SOIL REMOVAL.
- [Stippled Area] NO CONFIRMATORY SAMPLING REQUIRED.

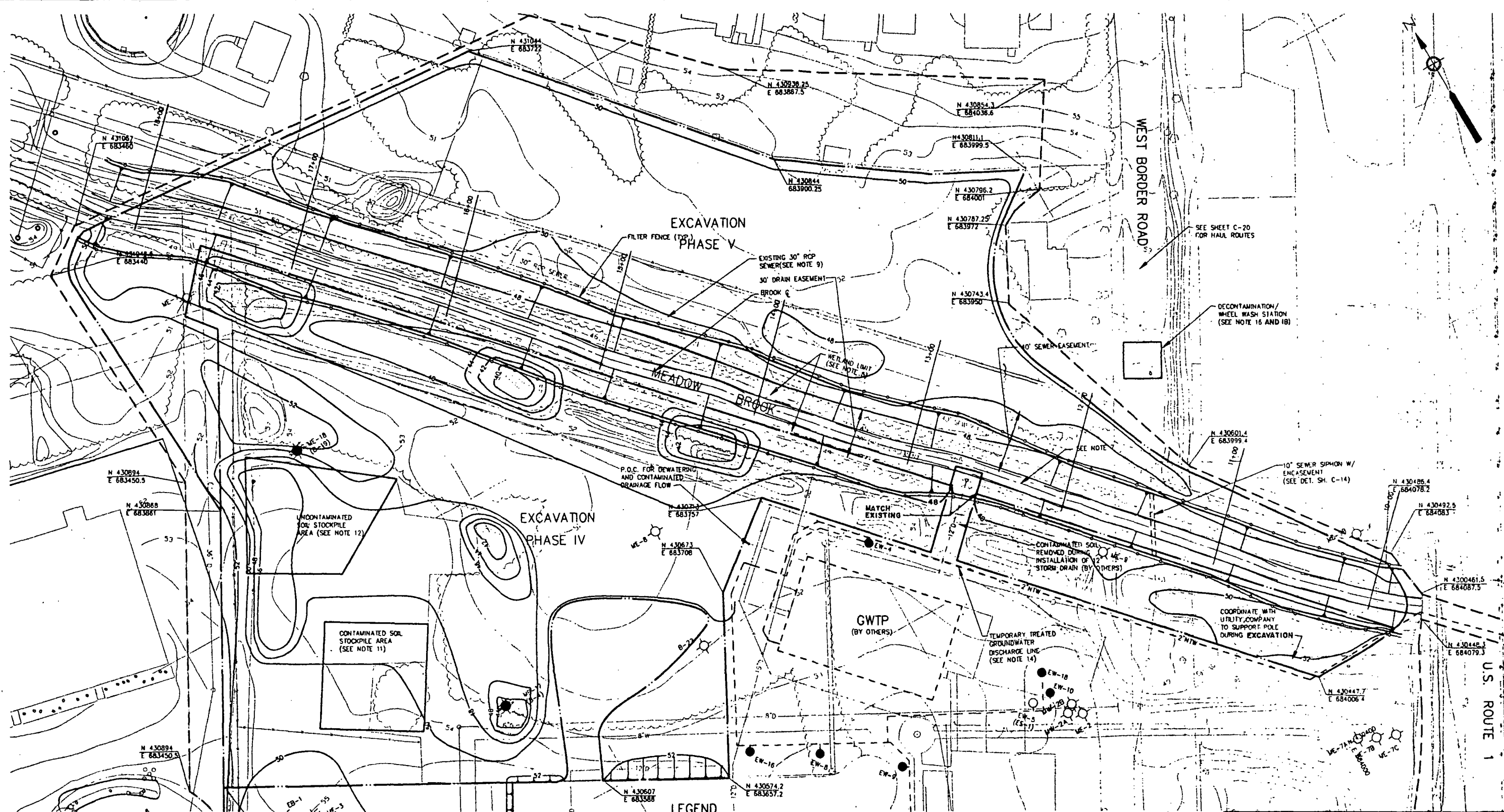


KEY MAP



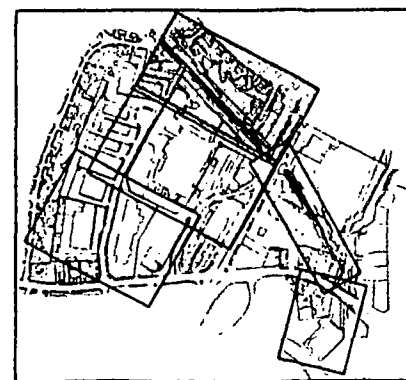
SYMBOLS	REVISIONS	DATE	APPROVED
<p>U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS</p> <p>M&E METCALF & EDDY</p> <p>DESIGNED BY: S. O'BRIEN DRAWN BY: K. LETCH REVIEWED BY: <i>A. F. Mooney</i> SUBMITTED BY: <i>A. F. Mooney</i></p> <p>U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1 NORWOOD PCB SITE SOIL REMEDIATION EXCAVATION PLAN II</p>			
<p>APPROVAL RECOMMENDED: CHIEF DESIGN DIVISION (SEE C&S REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-76)</p> <p>DATE: AUGUST 1994 CADD NO: CZNOR004.DWG</p>		<p>SOLICITATION NUMBER: DRAWING CODE: NOS-2</p>	
<p>SCALE: 1"=30'</p>		<p>SHEET REFERENCE C-4 SHEET 6 OF 23</p>	



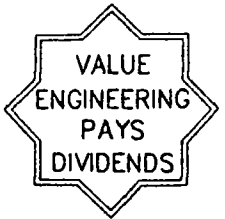
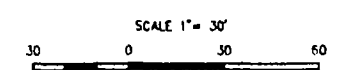


LEGEND

- NO CONFIRMATORY SAMPLING REQUIRED
- EXCAVATION, ELEVATION, VERTICAL LIMIT OF CONTAMINATED SOIL REMOVAL



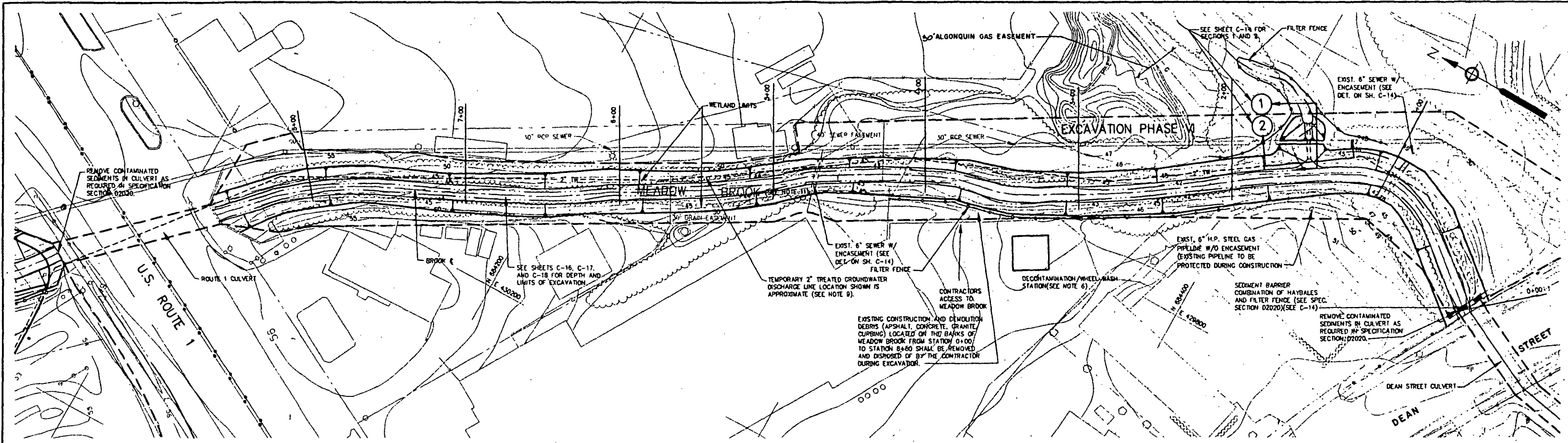
KEY MAP



- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS, M&E, MARCH 12, 1988.
 3. PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. EXCAVATION SEQUENCING DETAILED IN SPECIFICATIONS SECTION 02020.
 5. GWTP AND EXTRACTION WELLS SHOWN ARE TO BE CONSTRUCTED BY GWTP CONTRACTOR. GWTP CONTRACTOR WILL INSTALL ADDITIONAL EXTRACTION WELLS AFTER SOIL REMEDIATION IS COMPLETE. COORDINATION WITH GWTP CONTRACTOR REQUIRED.
 6. 100 YEAR FLOOD ELEVATION IS 49.5 FT. NGVD.
 7. EXCAVATION IN MEADOW BROOK AND BANKS TO BE IN ACCORDANCE WITH THE GRADES SHOWN ON THE SECTIONS ON SHEET C-16 TO C-18.
 8. EXCLUSION ZONE LIMITS SHALL BE EXTENDED TO INCLUDE EXCAVATION PHASE V PRIOR TO COMMENCING ACTIVITIES IN PHASE V.
 9. THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE 30" ROP SEWER AND PROTECT DURING THE EXCAVATION.
 10. CONFIRMATORY SAMPLING SHALL BE PERFORMED AS REQUIRED BY SPECIFICATION SECTION 01410 ALONG LIMITS OF EXCAVATION NOT BORDERED BY A PLANNED EXCAVATION.

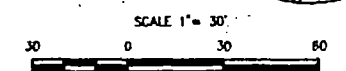
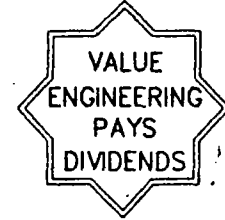
11. SOILS STOCKPILED BY GWTP CONTRACTOR AND FROM EXCAVATION PHASE I SOILS TO BE REMOVED AND PROCESSED AS PART OF EXCAVATION PHASE IV.
12. UNCONTAMINATED SOILS STOCKPILED BY GWTP CONTRACTOR, SOILS TO BE USED AS BACKFILL BY SRC FOR EXCAVATION PHASES I, II, AND III.
13. WETLANDS LIMIT BASED ON LEVEL II ROUTINE WETLAND DELINEATION CONDUCTED BY M&E ON 2/14/91. THE LIMIT SHOWN IS BASED ON FLAGGING IN THE AREA NORTH OF THE GRANT GEAR BUILDING AND A 5' OFFSET FROM THE EDGE OF WATER IN THE UNFLAGGED AREAS.
14. TEMPORARY TREATED GROUNDWATER DISCHARGE LINE TO BE REPLACED SEE SHEET C-13.
15. SEE SHEET G-2 FOR ABBREVIATIONS AND SYMBOLS.
16. WATER USED AT THE WHEEL WASH STATION SHALL BE COLLECTED, TRANSPORTED TO THE SITE, AND INTRODUCED INTO THE CONTAMINATED DRAINAGE SYSTEM TO ALLOW TREATMENT AT THE GWTP.
17. AVERAGE GROUNDWATER ELEVATIONS RANGE FROM 47.50' TO 48.00' OVER THE AREA TO BE EXCAVATED.
18. CONTRACTOR SHALL PROVIDE WATER FOR WHEEL WASH STATION DURING EXCAVATION.

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVAL
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS			
DESIGNED BY: S. O'BRIEN	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I		
DRAWN BY: K. LETCH	NORWOOD PCB SITE SOIL REMEDIATION		
REVIEWED BY: M&E Mooney	EXCAVATION PLAN III		
SUBMITTED BY: J. Madden	SOLICITATION NUMBER:		
APPROVAL RECOMMENDED: C&E Design Division	DRAWING CODE:		
SCALE: 1"=30'	DATE: AUGUST 1994		
CADD NO: C2NOR016.DWG	SHEET REFERENCE: C-5		
	SHEET 7 OF 23		



EXISTING PIPELINE CROSSINGS @ MEADOW BROOK

STA.	PIPELINE DESCRIPTION	OWNER	APPROX. PIPELINE INVERT ELEVATION
0+95	6" C.I. SIPHON	TOWN OF NORWOOD	INV. EL. 39.6
1+55	6" STEEL GAS LINE	ALGONQUIN GAS	INV. EL. 38.0
4+65	6" SEWER	TOWN OF NORWOOD	INV. EL. 37.5
11+25	10" SEWER SIPHON	TOWN OF NORWOOD	INV. EL. 40.5



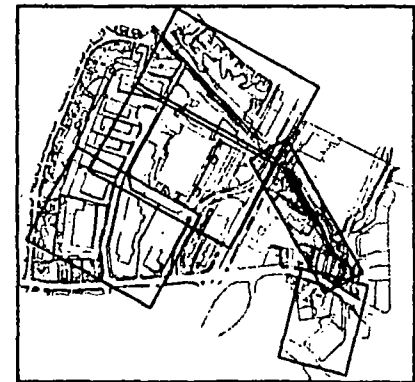
NOTES FOR WORK WITHIN ALGONQUIN GAS CO. R.O.W.

- NO WORK SHALL BE PERFORMED ON ALGONQUIN RIGHT OF WAY WITHOUT ALGONQUIN STANDBY PERSONNEL PRESENT. STANDBY PERSONNEL WILL BE MADE AVAILABLE WITH 48 HOURS NOTIFICATION TO ALGONQUIN'S SUPERINTENDENT AT 617-329-3750.
- NO MATERIAL OR EQUIPMENT WILL BE ALLOWED TO BE STORED WITHIN THE LIMITS OF THE RIGHT OF WAY.
- NO CONSTRUCTION EQUIPMENT INCLUDING TRUCKS WILL BE ALLOWED TO CROSS ALGONQUIN'S PIPELINES WITHOUT PRIOR APPROVAL OF ALGONQUIN'S SUPERINTENDENT AND THE CONTRACTING OFFICER.
- A MINIMUM OF 3 FEET AND A MAXIMUM OF 6 FEET OF COVER SHALL BE MAINTAINED OVER THE PIPELINE.
- TEST PITS WILL BE REQUIRED ON GAS PIPELINES TO DETERMINE MATERIAL SUITABILITY AND COVER. ARRANGEMENTS FOR TEST PITS WILL BE MADE BY CONTACTING ALGONQUIN'S SUPERINTENDENT. THE CONTRACTOR WILL BE REQUIRED TO REPLACE UNSUITABLE SOIL SURROUNDING PIPELINE WITH SELECT COMPACTED MATERIAL IN ACCORDANCE WITH ALGONQUIN'S STANDARD DRAWING AND SPECIFICATION REQUIREMENTS.

NOTES

- BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
- EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. MBE, MARCH 12, 1988.
- THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
- EXCAVATION DETAILED IN SPECIFICATION SECTION 02020.
- 100 YEAR FLOOD ELEVATION IS 49.5 FT NGVD.
- WATER USED AT THE WHEEL WASH STATION SHALL BE COLLECTED, TRANSPORTED TO THE SITE, AND INTRODUCED INTO THE CONTAMINATED DRAINAGE SYSTEM TO ALLOW TREATMENT AT THE GWP. CONTRACTOR SHALL PROVIDE WATER FOR WHEEL WASH STATION DURING EXCAVATION.

- SEE SHEET C-2 FOR ABBREVIATIONS AND SYMBOLS.
- EXCLUSION ZONE LIMITS SHALL BE EXTENDED TO INCLUDE EXCAVATION PHASE IV PRIOR TO COMMENCING ACTIVITIES IN PHASE IV.
- TEMPORARY 2" TREATED GROUNDWATER DISCHARGE LINE MAY BE MOVED AS REQUIRED FOR EXCAVATION. CONTRACTOR IS REQUIRED TO MAINTAIN LINE UNTIL PERMANENT LINE IS INSTALLED.
- WETLAND LIMIT BASED ON LEVEL 0 ROUTINE WETLAND DELINEATION CONDUCTED BY MAE ON 2/14/91. THE LIMIT SHOWN IS BASED ON FLAGGING IN THE AREA NORTH OF THE GRANT GEAR BUILDING AND A 5' OFFSET FROM THE EDGE OF WATER IN THE UNFLAGGED AREAS.
- EXCAVATION IN MEADOW BROOK AND BANKS SHOULD BE IN ACCORDANCE WITH THE GRADES SHOWN ON THE SECTIONS ON SHEET C-16 THROUGH C-18 AND IN ACCORDANCE WITH THE REQUIREMENTS IN SPECIFICATION SECTION 02020.
- THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE 30" RCP SEWER, AND BE PROTECT DURING THE EXCAVATION.



SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

U.S. ARMY CORPS OF ENGINEERS
 NEW ENGLAND DIVISION
 WALTHAM, MASSACHUSETTS

M&E METCALF & EDDY
 U.S. ENVIRONMENTAL PROTECTION AGENCY
 REGION 1
 NORWOOD PCB SITE SOIL REMEDIATION

EXCAVATION PLAN IV

DESIGNED BY: S. O'BRIEN
 DRAWN BY: K. LETCH
 REVIEWED BY: W.F. Mooney
 SUBMITTED BY: [Signature]
 APPROVAL RECOMMENDED: [Signature]
 CHIEF DESIGNER: [Signature]
 (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-76)
 SCALE: 1"=30'
 DATE: AUGUST 1994
 CADD NO: CZNOR007.DWG

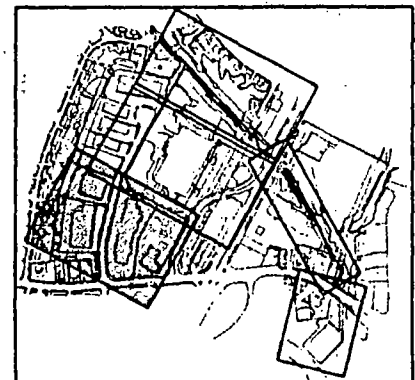
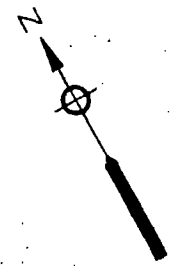
SOLICITATION NUMBER:
 DRAWING CODE: NOS-2
 SHEET REFERENCE: C-6 SHEET 8 OF 23



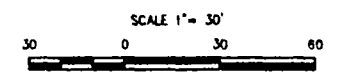
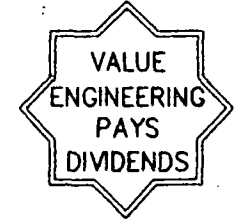
- NOTES
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M.M.E. MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS. REVISED JANUARY 1980.
 4. EXISTING FOUNDATION TO BE REMOVED IN ACCORDANCE WITH SPECIFICATIONS 01000 AND 02050.
 5. SEE SHEET G-2 FOR ABBREVIATIONS AND SYMBOLS.
 6. SEE THE WELL SCHEDULE ON C-15 FOR THE LIST OF WELLS TO BE ABANDONED/PRESERVED. THE GWTP CONTRACTOR IS INSTALLING WELLS TO REPLACE CERTAIN WELLS TO BE ABANDONED BY THE SRC. THESE WELLS ARE INCLUDED IN THE WELL SCHEDULE.

LEGEND

- BITUMINOUS PAYMENT TO BE REMOVED
- CRUSHED STONE AND FABRIC FILTER CAP TO BE REMOVED
- FENCE TO BE REMOVED
- WELL ME-48 TO BE ABANDONED (SEE NOTE 6)
- WELL ME-138 TO BE ABANDONED BY OTHERS. WELL (MW-38) TO BE ABANDONED BY SRC. (SEE NOTE 6)

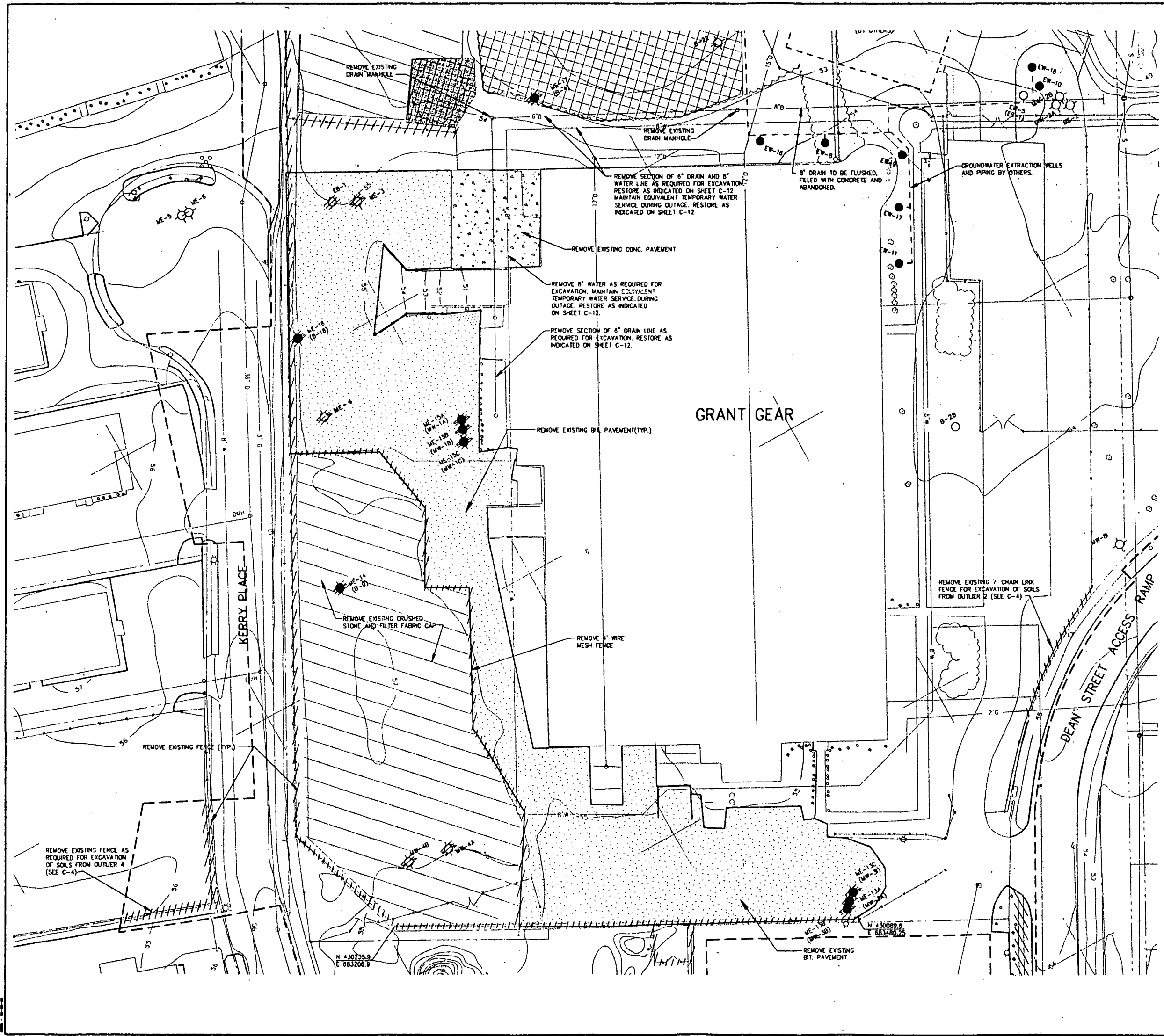


KEY MAP



SYMBOLS	REVISIONS	DATE	APPROVAL
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS		M&E METCALF & EDDY	
DESIGNED BY: S. O'BRIEN	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I		
DRAWN BY: K. LETCH	NORWOOD PCB SITE SOIL REMEDIATION		
REVIEWED BY: <i>[Signature]</i>	REMOVALS PLAN I		
SUBMITTED BY: <i>[Signature]</i>	APPROVAL RECOMMENDED: <i>[Signature]</i>		
DATE: AUGUST 1994	SOLICITATION NUMBER: NOS-2	SHEET REFERENCE: C-7	
CADD NO.: CZNOR005.DWG	DRAWING CODE:	SHEET 9 OF 23	

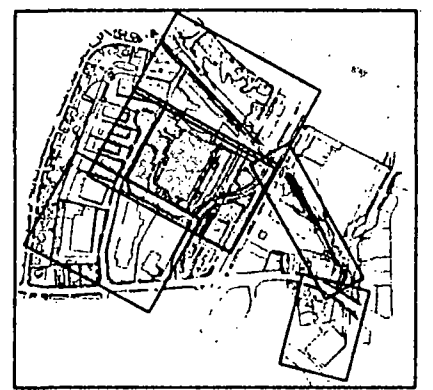




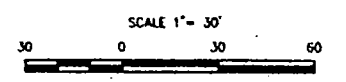
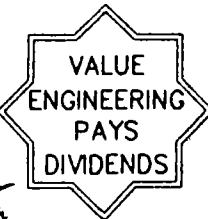
- NOTES
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOS TON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. SEE SHEET G-2 FOR ABBREVIATIONS AND SYMBOLS.
 5. SEE THE WELL SCHEDULE ON C-15 FOR THE LIST OF WELLS TO BE ABANDONED/PRESERVED. THE GWPT CONTRACTOR IS INSTALLING WELLS TO REPLACE CERTAIN WELLS TO BE ABANDONED BY THE SRC. THESE WELLS ARE INCLUDED IN THE WELL SCHEDULE.

LEGEND

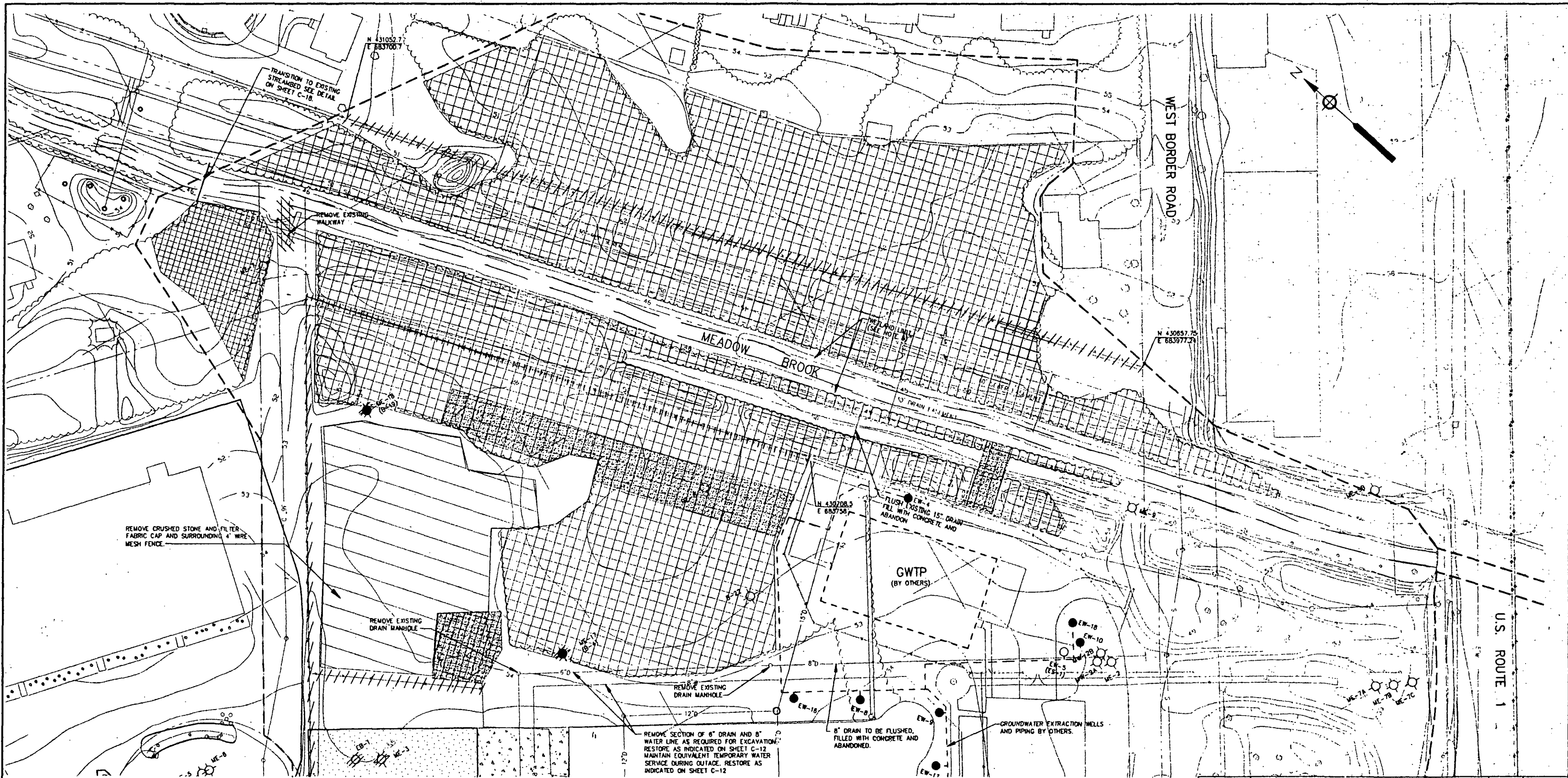
- BITUMINOUS PAVEMENT TO BE REMOVED
- CRUSHED STONE TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED
- WOODED AREA TO BE CLEARED
- WOODED AREA TO BE CLEARED (BY OTHERS)
- FENCE TO BE REMOVED
- WELL TO BE ABANDONED (SEE NOTE 5)
- WELL ME-14 TO BE INSTALLED BY OTHERS. WELL (B-9) TO BE ABANDONED BY SRC. (SEE NOTE 5)



KEY MAP

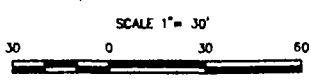
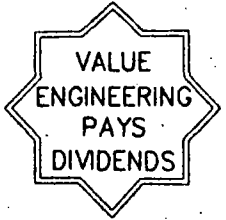
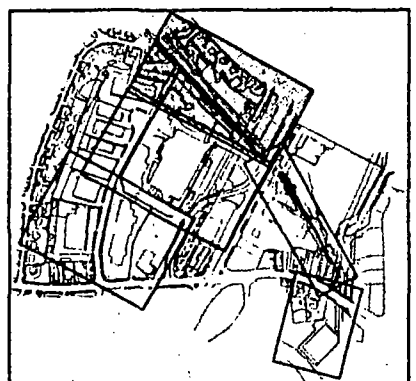


SYMBOLS		REVISIONS		DATE APPROVED	
DESCRIPTIONS					
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS					
DESIGNED BY: S. O'BRIEN DRAWN BY: K. LETCH REVIEWED BY: <i>[Signature]</i> SUBMITTED BY: <i>[Signature]</i>		U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I NORWOOD PCB SITE SOIL REMEDIATION REMOVALS PLAN II			
APPROVAL RECOMMENDED: <i>[Signature]</i> <small>CHIEF DESIGN DIVISION COO (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)</small>		SOLICITATION NUMBER: NOS-2		SHEET REFERENCE: C-8 SHEET 40 OF 23	
DATE: AUGUST 1994 CADD NO: CZNOR017.DWG					

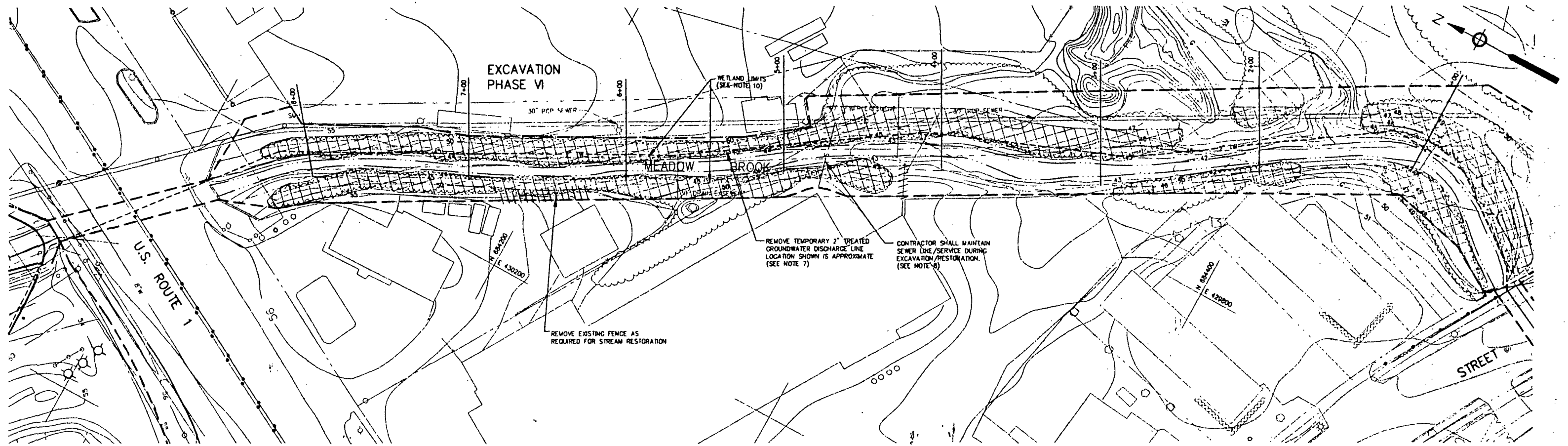


- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. 100 YEAR FLOOD ELEVATION IS 49.5 FT NGVD
 5. WETLAND LIMIT BASED ON LEVEL II ROUTINE WETLAND DESIGNATION CONDUCTED BY M&E ON 2/14/91. THE LIMIT SHOWN IS BASED ON FLAGGING IN THE AREA NORTH OF THE GRANT GEAR BUILDING AND A 5' OFFSET FROM THE EDGE OF WATER IN THE UNFLAGGED AREAS
 6. SEE SHEET G-2 FOR ABBREVIATIONS AND SYMBOLS.
 7. SEE THE WELL SCHEDULE ON C-15 FOR THE LIST OF WELLS TO BE ABANDONED/PRESERVED. THE GWTP CONTRACTOR IS INSTALLING WELLS TO REPLACE CERTAIN WELLS TO BE ABANDONED BY THE SRC. THESE WELLS ARE INCLUDED IN THE WELL SCHEDULE.
 8. THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE 30" RCP SEWER, WHICH SHALL BE PROTECTED DURING THE EXCAVATION.

- LEGEND**
- ME-17 (B-4) WELL ME-17 TO BE INSTALLED BY OTHERS. WELL (B-4) TO BE ABANDONED BY SRC. (SEE NOTE 7)
 - BITUMINOUS PAVEMENT TO BE REMOVED
 - CRUSHED STONE AND FABRIC FILTER CAP TO BE REMOVED
 - CONCRETE PAVEMENT TO BE REMOVED
 - WOODED AREA TO BE CLEARED
 - WOODED AREA TO BE CLEARED (BY OTHERS)
 - ////// FENCE TO BE REMOVED

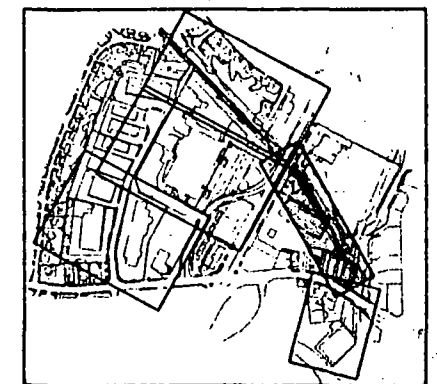


SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED
<p>U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS</p> <p>DESIGNED BY: S. O'BRIEN DRAWN BY: K. LETCH REVIEWED BY: <i>W. F. Mooney</i> SUBMITTED BY: <i>W. F. Mooney</i></p> <p>APPROVAL RECOMMENDED: <i>W. F. Mooney</i> NEW ENGLAND DIVISION (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)</p> <p>U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I MORWOOD PCB SITE SOIL REMEDIATION REMOVALS PLAN III</p>			
SOLICITATION NUMBER:		SHEET REFERENCE:	
DRAWING CODE:		C-9	
DATE: AUGUST 1994		SHEET 11 OF 23	
CADD NO: CZNOR006.DWG		NOS-2	



EXISTING PIPELINE CROSSINGS @ MEADOW BROOK

STA.	PIPELINE DESCRIPTION	OWNER	APPROX. PIPELINE INVERT ELEVATION
0+95	6" C.I. SIPHON	TOWN OF NORWOOD	INV. EL. 39.6
1+55	6" STEEL GAS LINE	ALCONQUIN GAS	INV. EL. 38.0
4+65	6" SEWER	TOWN OF NORWOOD	INV. EL. 37.5
11+25	10" SEWER SIPHON	TOWN OF NORWOOD	INV. EL. 40.5



KEY MAP

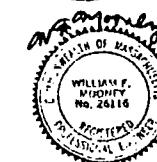
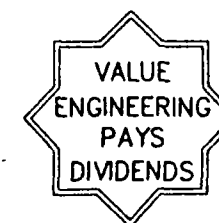
NOTES

1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
4. 100 YEAR FLOOD ELEVATION IS 49.5 FT NGVD
5. WETLAND LIMIT BASED ON LEVEL II ROUTINE WETLAND DESIGNATION CONDUCTED BY M&E ON 2/14/91. THE LIMIT SHOWN IS BASED ON FLAGGING IN THE AREA NORTH OF THE GRANT GEAR BUILDING AND A 5' OFFSET FROM THE EDGE OF WATER IN THE UNFLAGGED AREAS
6. SEE SHEET G-2 FOR ABBREVIATIONS AND SYMBOLS.
7. TEMPORARY 2" TREATED GROUNDWATER DISCHARGE LINE MAY BE MOVED AS REQUIRED FOR EXCAVATION. CONTRACTOR IS REQUIRED TO MAINTAIN LINE UNTIL PERMANENT LINE IS INSTALLED.
8. THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE 30" RCP SEWER, WHICH SHALL BE PROTECTED DURING THE EXCAVATION

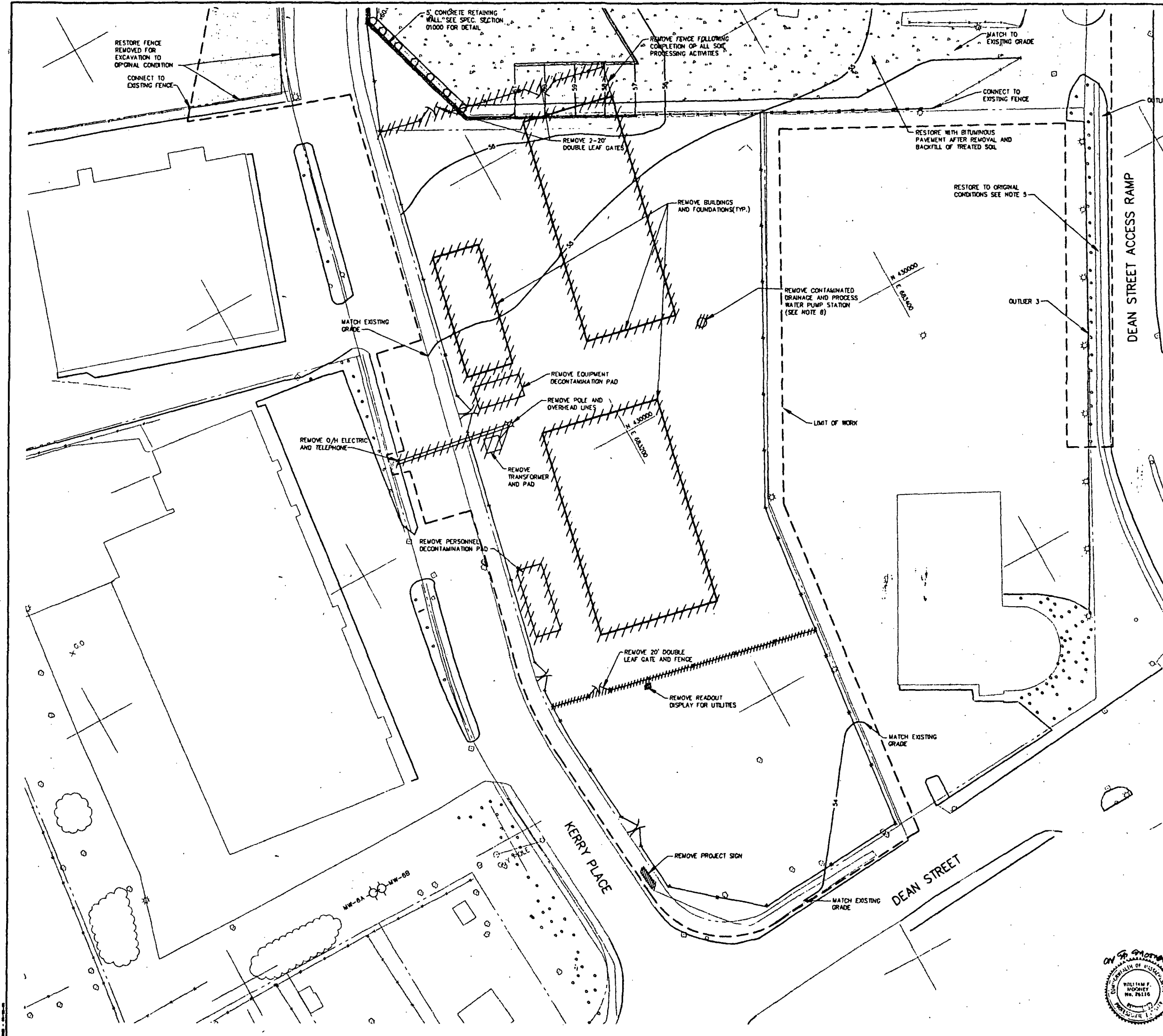
LEGEND

WOODED AREA TO BE CLEARED

SCALE 1" = 30'


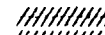
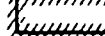


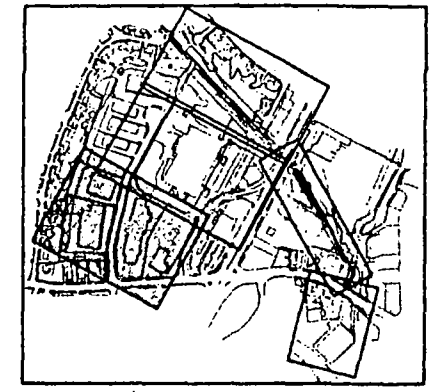
SYMBOLS	REVISIONS	DATE	APPROVED
<p>U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS</p> <p>M&E METCALF & EDDY</p> <p>DESIGNED BY: S. O'BRIEN DRAWN BY: K. LETCH REVIEWED BY: <i>N. G. Mooney</i> SUBMITTED BY: <i>N. G. Mooney</i></p> <p>APPROVAL RECOMMENDED: CHIEF DESIGN DIVISION (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-76)</p>			
<p>U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1</p> <p>NORWOOD PCB SITE SOIL REMEDIATION</p> <p>REMOVALS PLAN IV</p>		<p>SOLICITATION NUMBER:</p> <p>DRAWING CODE: NOS-2</p> <p>DATE: AUGUST 1994 CADD NO: CZNOR018.DWG</p>	
<p>DATE: AUGUST 1994</p>		<p>SHEET REFERENCE: C-10 SHEET 12 OF 23</p>	



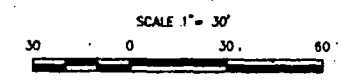
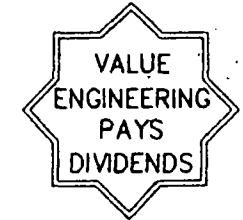
- NOTES
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. 100 YEAR FLOOD 12 49.5 FT. MVD.
 5. CLEAN SOIL FROM OFF-SITE SOURCES REQUIRED FOR BACKFILL OUTSIDE OFF GRANT DEAR PROPERTY.
 6. SEE SHEET G-2 FOR ABBREVIATIONS AND SYMBOLS
 7. STUB OFF, CAP AND MARK NEW GAS, WATER AND DRAINS FOR SOIL PROCESSING FACILITY AT PROPERTY LINES.
 8. CONTAMINATED DRAINAGE AND PROCESS LINES SHALL BE FLUSHED, FILLED WITH CONCRETE, AND ABANDONED AFTER COMPLETION OF SOIL REMEDIATION



LEGEND

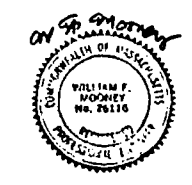
-  BITUMINOUS CONCRETE
-  FENCE TO BE REMOVED
-  REMOVE BUILDINGS AND OR FOUNDATIONS

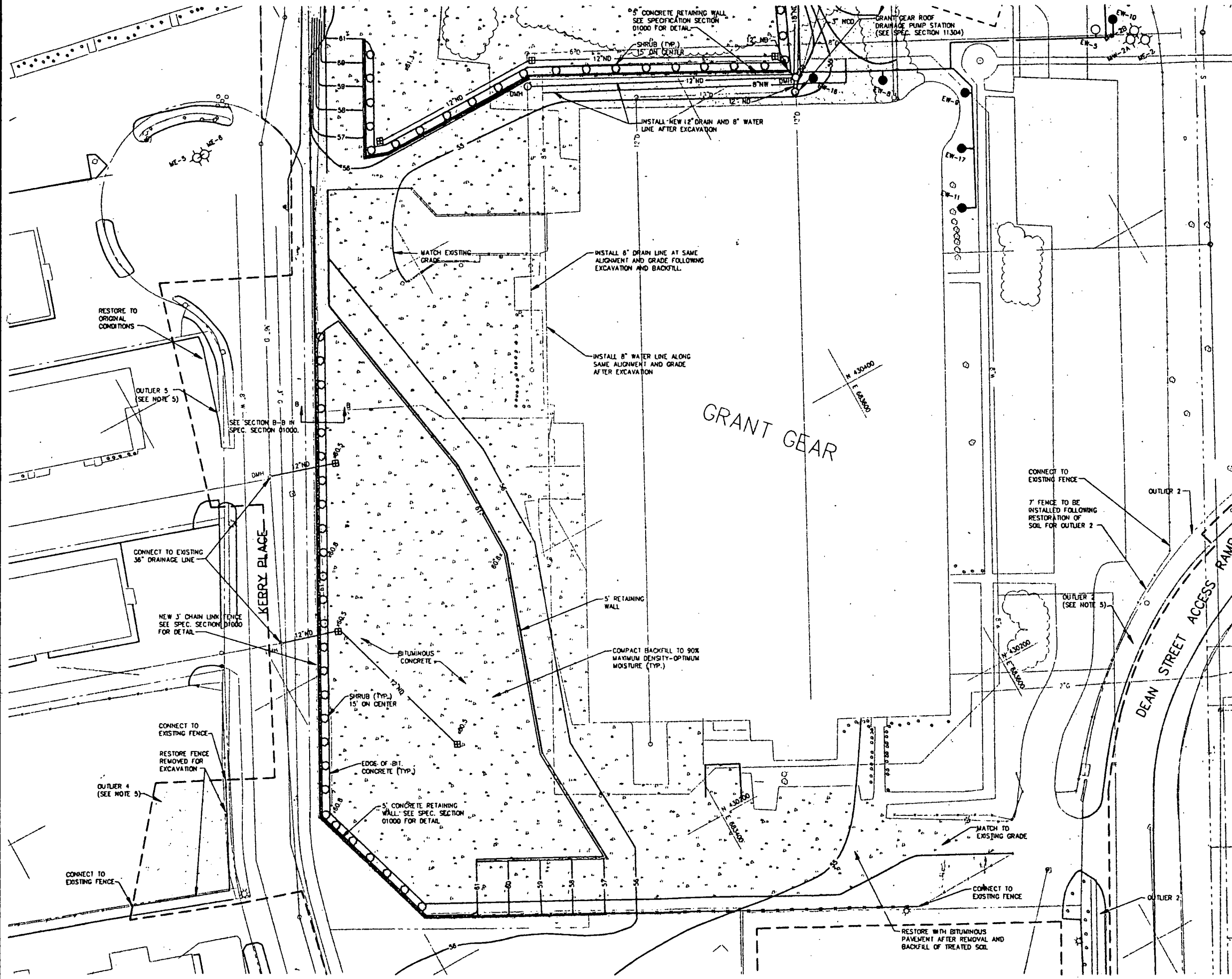


KEY MAP



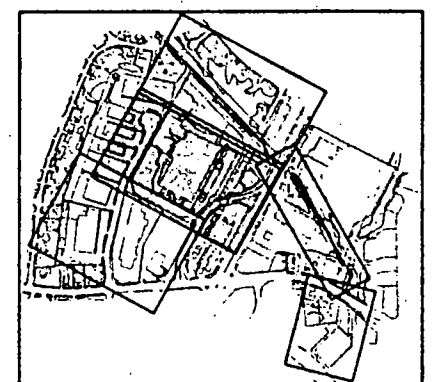
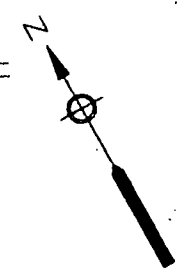
SYMBOLS		REVISIONS		DATE	APPROV
		DESCRIPTIONS			
 U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS					
DESIGNED BY: S. O'BRIEN	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1				
DRAWN BY: K. LETCH	NORWOOD PCB SITE SOIL REMEDIATION				
REVIEWED BY: <i>W. F. Mooney</i>	RESTORATION PLAN I				
SUBMITTED BY: <i>W. F. Mooney</i>					
APPROVAL RECOMMENDED: CHIEF DESIGN DIVISION CODE (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)	SOLICITATION NUMBER:		SHEET REFEREN		
SCALE: 1"=30'	DRAWING CODE:		C-11		
DATE: AUGUST 1994	NOS-2		SHEET 13 OF 2		
CADD NO: CZNOR009.DWG					



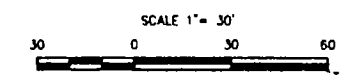
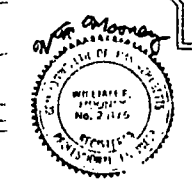
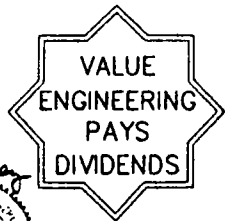


- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS, M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1988.
 4. 10" OFF CLEAN FILL WILL BE BACKFILLED OVER TREATED SOILS PRIOR TO THE PLACEMENT OF TOPSOIL AND SEED.
 5. CLEAN SOIL FROM OFF-SITE SOURCES REQUIRED FOR BACKFILL OUTSIDE OF GRANT GEAR PROPERTY. SEE SPECIFICATION SECTION 01000.
 6. SEE SHEET G-2 FOR ABBREVIATIONS AND SYMBOLS.

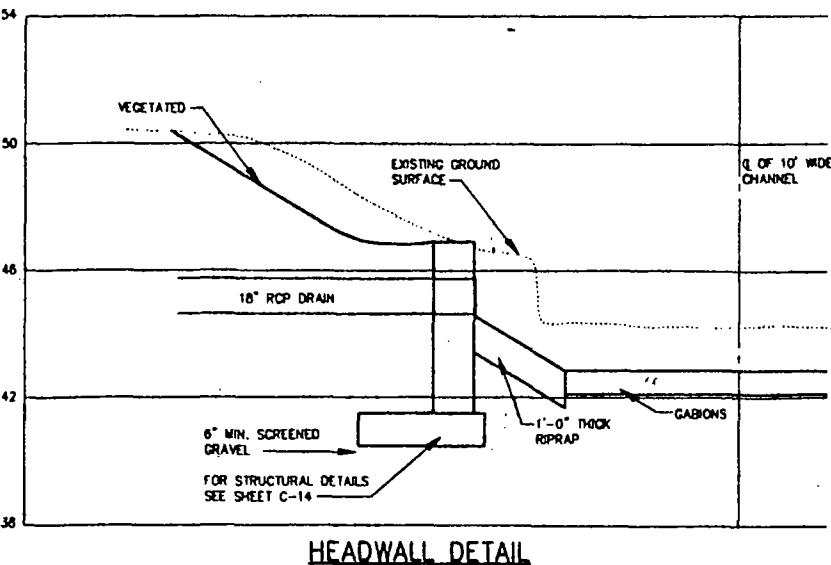
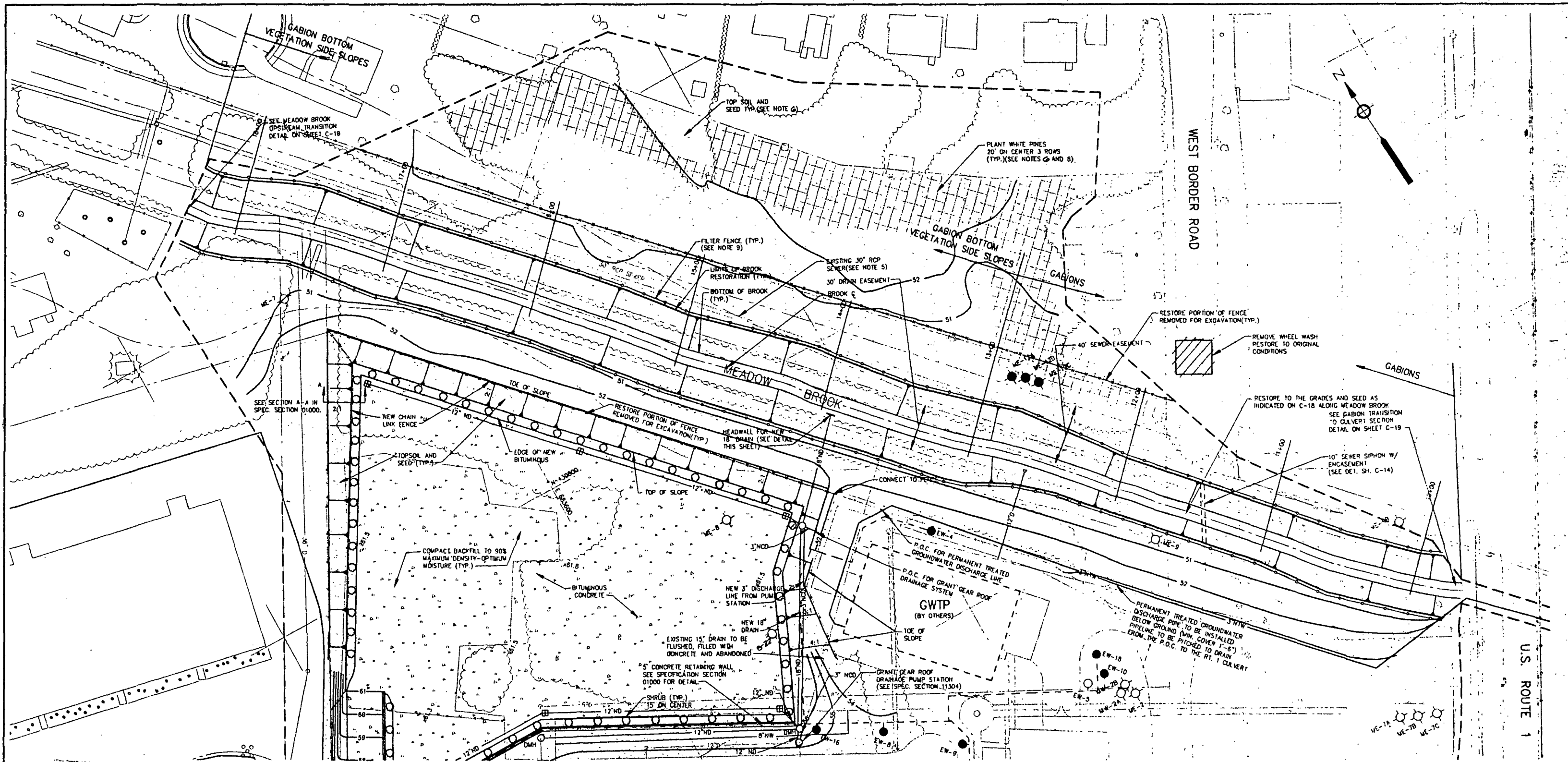
- LEGEND**
- TOP SOIL AND SEED (SEE NOTE 4)
 - BITUMINOUS CONCRETE



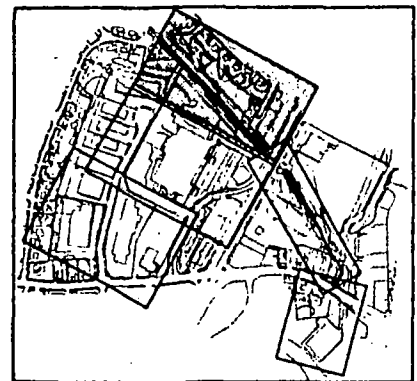
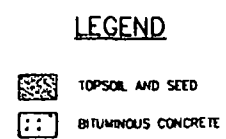
KEY MAP



SYMBOLS		REVISIONS		DATE	APPROVED
		DESCRIPTIONS			
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS		M&E METCALF & EDDY			
DESIGNED BY: S. O'BRIEN		U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1			
DRAWN BY: K. LETCH		NORWOOD PCB SITE SOIL REMEDIATION			
REVIEWED BY: <i>S. O'Brien</i>		RESTORATION PLAN II			
SUBMITTED BY: <i>S. O'Brien</i>					
APPROVAL RECOMMENDED: <i>S. O'Brien</i>		SOLICITATION NUMBER:		SHEET REFERENCE:	
SCALE: 1"=30'		DRAWING CODE:		C-12	
DATE: AUGUST 1994		NOS-2		SHEET 14 OF 23	
CADD NO: C2NOR010.DWG					



- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY, FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS, M.A.E. MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. 100 YEAR FLOOD ELEVATION IS 49.5 FT NGVD.
 5. THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE 30" RCP SEWER, AND PROTECT DURING THE EXCAVATION.
 6. CLEAN SOIL FROM OFF SITE SOURCES REQUIRED FOR BACKFILL OUTSIDE OF GRANT GEAR PROPERTY. SEE SPECIFICATION SECTION 01000.
 7. SEE SHEET C-2 FOR ABBREVIATIONS AND SYMBOLS.
 8. SEE SPECIFICATION 02190 FOR TREE REQUIREMENTS.
 9. THE CONTRACTOR SHALL REMOVE THE FILTER FENCE FOLLOWING THE COMPLETION OF THE RESTORATION.



SCALE 1" = 30'

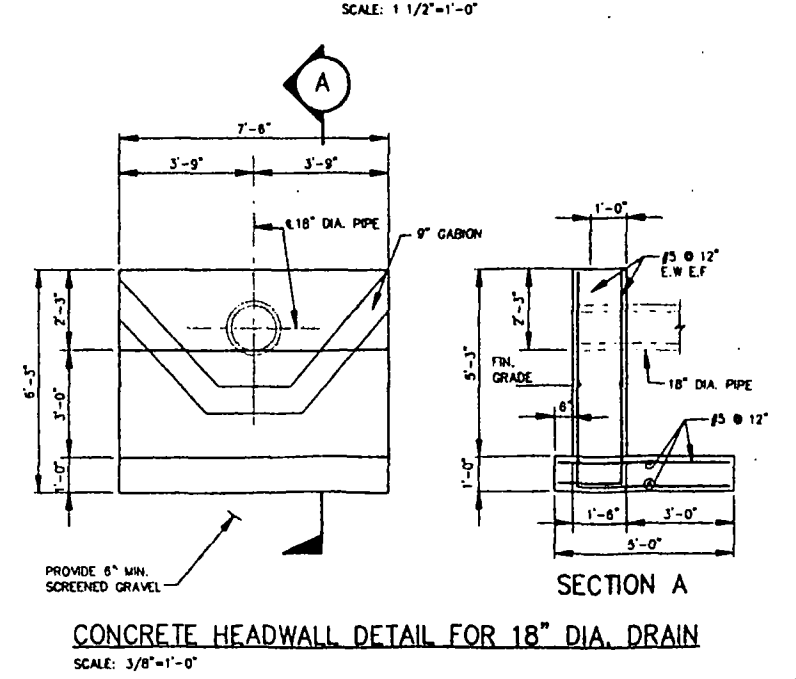
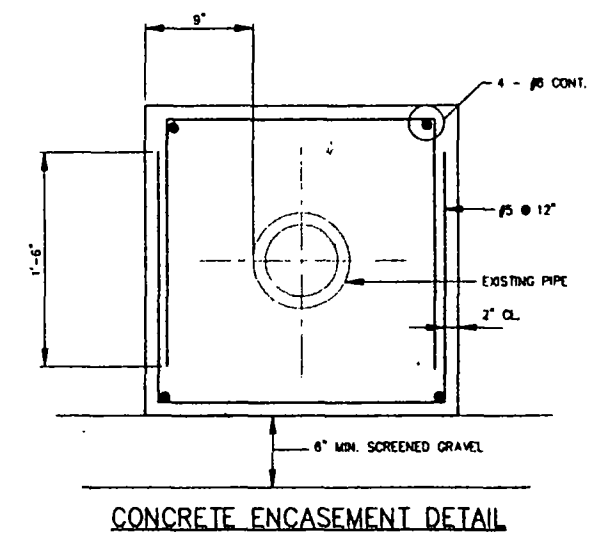
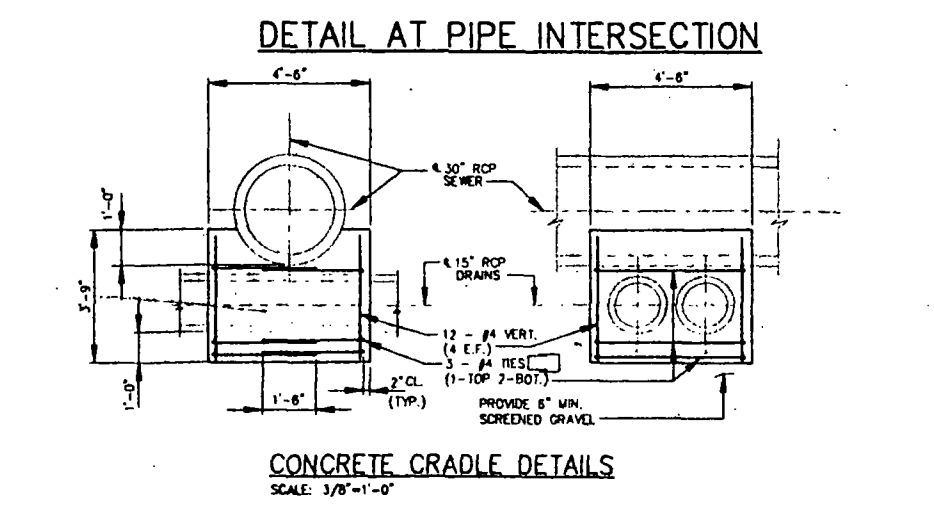
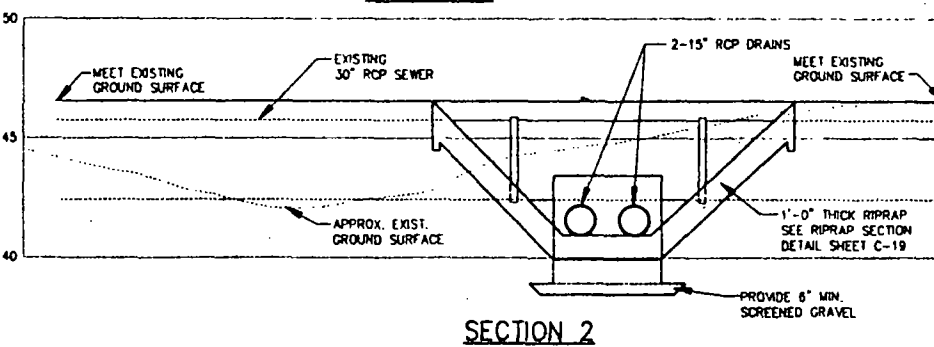
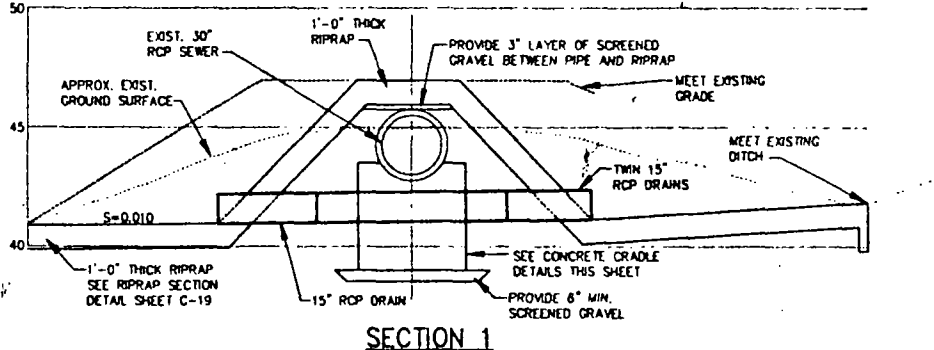
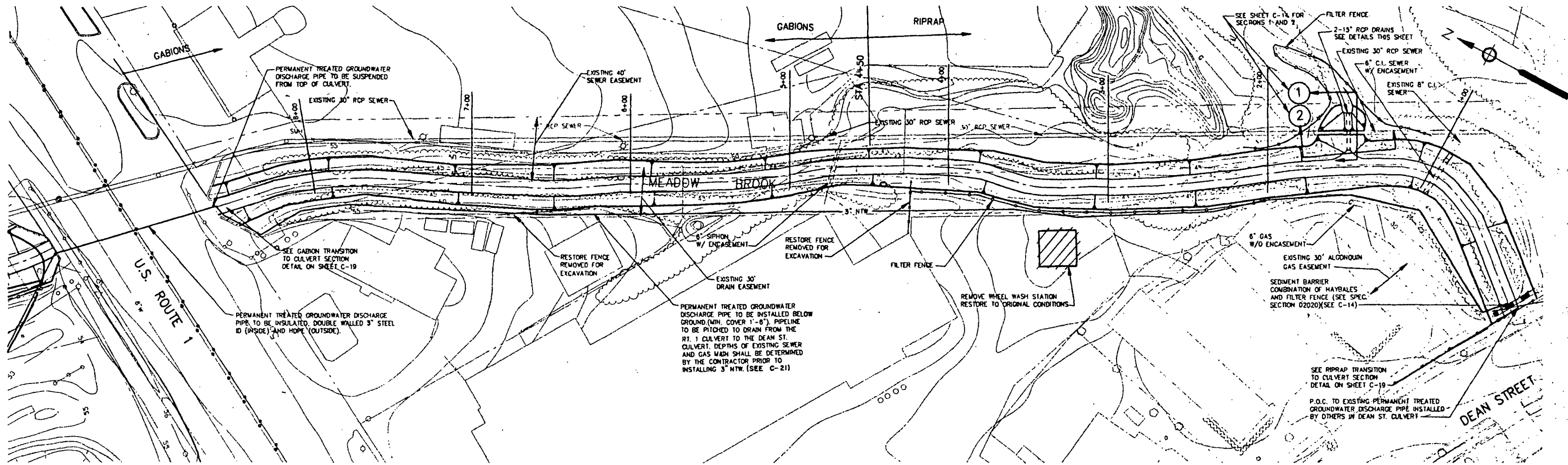
VALUE ENGINEERING PAYS DIVIDENDS

SAFETY PAYS

APPROVAL RECOMMENDED:

PROFESSIONAL ENGINEER

SYMBOLS	REVISIONS	DATE	APPROVED
<p>U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS</p> <p>M&E METCALF & EDDY</p>			
<p>DESIGNED BY: S. O'BRIEN</p> <p>DRAWN BY: K. LETCH</p> <p>REVIEWED BY: W.F. Money</p> <p>SUBMITTED BY:</p>		<p>U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I</p> <p>NORWOOD PCB SITE SOIL REMEDIATION</p> <p>RESTORATION PLAN III</p>	
<p>APPROVAL RECOMMENDED: (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)</p> <p>SCALE: 1" = 30'</p> <p>DATE: AUGUST 1994</p> <p>CADD NO: CZNOR011.DWG</p>		<p>SOLICITATION NUMBER:</p> <p>DRAWING CODE: NOS-2</p> <p>SHEET REFERENCE: C-13 SHEET 15 OF 23</p>	

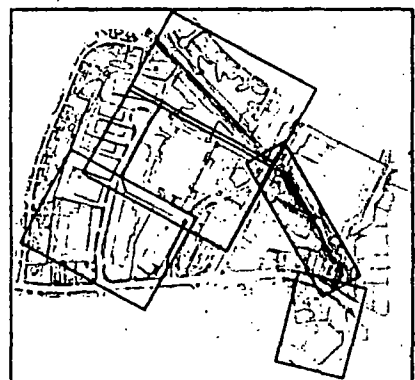


NOTE: PROVIDE CONCRETE ENCASEMENT FOR EXISTING PIPELINES DURING EXCAVATION AT STATION 0+95, 4+85 AND 11+25

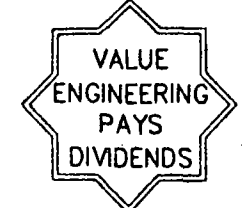
- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BOSTON GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. 100 YEAR FLOOD ELEVATION IS 49.5 FT MVD.
 5. 6" WIDE x 6" DEEP KEY TRENCH SHALL BE CONSTRUCTED ALONG THE PERIMETER OF THE RIPRAP. (SEE DETAILS SHEET C-18)
 6. SEE SHEET C-2 FOR ABBREVIATIONS AND SYMBOLS.

EXISTING PIPELINE CROSSINGS @ MEADOW BROOK

STA.	PIPELINE DESCRIPTION	OWNER	APPROX. PIPELINE INVERT ELEVATION
0+95	6" C.I. SIPHON	TOWN OF NORWOOD	INV. EL. 39.6
1+55	6" STEEL GAS LINE	ALGONQUIN GAS	INV. EL. 38.0
4+65	6" SEWER	TOWN OF NORWOOD	INV. EL. 37.5
11+25	10" SEWER SIPHON	TOWN OF NORWOOD	INV. EL. 40.5



SYMBOLS	REVISIONS	DATE	APPROVED
DESCRIPTIONS			
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS		M&E METCALF & EDDY	
DESIGNED BY: S. O'BRIEN	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1		
DRAWN BY: K. LETCH	NORWOOD PCB SITE SOIL REMEDIATION		
REVIEWED BY: ON THE JOB	RESTORATION PLAN IV		
SUBMITTED BY:	SOLICITATION NUMBER:		
APPROVAL RECOMMENDED:	DRAWING CODE:		
(AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-76)	NOS-2		
SCALE: 1"=30'	SHEET REFERENCE:		
DATE: AUGUST 1994	C-14		
CADD NO: CZNOR019.DWG	SHEET 16 OF 23		



WELL SCHEDULE

Well	Replacement Well	GRC Activity	SRC Activity	Screened Interval (depth)	Stratum	Monitoring Baseline	Startup	Compliance
B-22	NONE	monitor		5-15	Overburden			
B-28	NONE	monitor		5-15	Overburden			
MW-2A	NONE	monitor		4.5-14.5	Overburden			
MW-2B	NONE	monitor		33-38	Shallow Bedrock			
MW-5A	NONE	monitor		92-102	Overburden			
MW-5B	NONE	monitor		92-102	Shallow Bedrock			
MW-6A	NONE	monitor		27-127	Overburden			
MW-6B	NONE	monitor		88.5-93.5	Shallow Bedrock			
MW-7A	NONE	monitor		8.7-18.7	Overburden			
MW-7B	NONE	monitor		33-43.4	Shallow Bedrock			
MW-7C	NONE	monitor		80-90	Deep Bedrock			
MW-8	NONE	monitor		56.4-61.4	Lower Overburden			
MW-9B	NONE	monitor		28.5-38.5	Shallow Bedrock			
ME-1	NONE	abandon		5-15	Overburden			
ME-2	NONE	monitor		17-22	Overburden			
ME-5	NONE	monitor		5.5-10.5	Overburden			
ME-6	NONE	monitor		34-54	Shallow Bedrock			
ME-7	NONE	monitor		19.5-39.5	Shallow Bedrock			
ME-8	NONE	monitor		12-22	Shallow Bedrock			
ME-9	NONE	monitor		69-79	Deep Bedrock			
ME-10	NONE	construct(4)/monitor		(5)	Overburden			
ME-11	NONE	construct(4)/monitor		(5)	Deep Bedrock			
ME-12A	NONE	construct(4)/monitor		(5)	Overburden			
ME-12B	NONE	construct(4)/monitor		(5)	Shallow Bedrock			
ME-12C	NONE	construct(4)/monitor		(5)	Deep Bedrock			
ME-13A	NONE	construct(4)/monitor		(5)	Overburden			
ME-13B	NONE	construct(4)/monitor		(5)	Lower Overburden			
ME-13C	NONE	construct(4)/monitor		(5)	Shallow Bedrock			
ME-14	NONE	construct(4)/monitor		(5)	Overburden			
ME-15A	NONE	construct(4)/monitor		(5)	Overburden			
ME-15B	NONE	construct(4)/monitor		(5)	Shallow Bedrock			
ME-15C	NONE	construct(4)/monitor		(5)	Deep Bedrock			
ME-16	NONE	construct(4)/monitor		(5)	Overburden			
ME-17	NONE	construct(4)/monitor		(5)	Overburden			
ME-18	NONE	construct(4)/monitor		(5)	Overburden			
B-4	ME-17	monitor	abandon	5-15				
B-9	ME-14	monitor	abandon	7-22				
B-10	NONE	monitor	abandon	5-15				
B-18	ME-18	monitor	abandon	9-24				
B-19	ME-18	monitor	abandon	5-20				
MW-1A	ME-15A	monitor	abandon	5-15				
MW-1B	ME-15B	monitor	abandon	20.5-30.5				
MW-1C	ME-15C	monitor	abandon	66-76				
MW-3A	ME-13A	monitor	abandon	3.8-13.8				
MW-3B	ME-13B	monitor	abandon	33-38				
MW-3C	ME-13C	monitor	abandon	69-79				
MW-4A	NONE		abandon	7-12				
MW-4B	NONE		abandon	37-42				
ME-3	NONE		abandon	25-45				
ME-4	NONE		abandon	24-44				
EB-1	NONE		abandon	26-46				
EW-1	NONE	construct(2)/monitor/pump		(5)	Overburden			
EW-2	NONE	construct(2)/monitor/pump		(5)	Overburden			
EW-3	NONE	construct(2)/monitor/pump		(5)	Overburden			
EW-4	NONE	construct(1)/monitor/pump		(5)	Overburden			
EW-5(3)	NONE	monitor/pump		(5)	Overburden			
EW-6	NONE	construct(2)/monitor/pump		(5)	Overburden			
EW-7	NONE	construct(2)/monitor/pump		(5)	Overburden			
EW-8	NONE	construct(1)/monitor/pump		(5)	Overburden			
EW-9	NONE	construct(1)/monitor/pump		(5)	Overburden			
EW-10	NONE	construct(1)/monitor/pump		(5)	Overburden			
EW-11	NONE	construct(1)/monitor/pump		(5)	Overburden			
EW-12	NONE	construct(2)/monitor/pump		(5)	Bedrock			
EW-13	NONE	construct(2)/monitor/pump		(5)	Bedrock			
EW-14	NONE	construct(2)/monitor/pump		(5)	Bedrock			
EW-15	NONE	construct(2)/monitor/pump		(5)	Bedrock			
EW-16	NONE	construct(1)/monitor/pump		(5)	Bedrock			
EW-17	NONE	construct(1)/monitor/pump		(5)	Bedrock			
EW-18	NONE	construct(1)/monitor/pump		(5)	Bedrock			

- (1) Phase A groundwater extraction system installed prior to GWTP startup operations.
 - (2) Phase B groundwater extraction system installed by the GRC after soil remediation.
 - (3) Existing extraction well formerly well ES-1.
 - (4) Monitoring wells to be installed by GRC after soil remediation.
 - (5) See specification section 02020 for Norwood PCB Superfund Site Groundwater Remediation, May 1994.
- GRC - Groundwater Remediation Contractor
 SRC - Soil Remediation Contractor
- ME-1 MONITORING WELL
 ME-15A (MW-1A) EXISTING MONITORING WELL 1A TO BE REPLACED BY MONITORING WELL 15A.
 ME-1 MONITORING WELL TO BE ABANDONED (BY OTHERS)
 NB-4 SOIL BORING

NOTE
 1. GROUNDWATER REMEDIATION CONTRACT LIMITS OF WORK WILL INCLUDE THE IMMEDIATE VICINITY OF GROUNDWATER MONITORING WELLS (AS SHOWN)

SCALE 1" = 60'

SYMBOLS	REVISIONS	DATE	APPROVED

U.S. ARMY CORPS OF ENGINEERS
 NEW ENGLAND DIVISION
 WALTHAM, MASSACHUSETTS

M&E METCALF & EDDY

DESIGNED BY: S. O'BRIEN
 DRAWN BY: K. LETCH
 REVIEWED BY: *[Signature]*
 SUBMITTED BY: *[Signature]*
 APPROVAL RECOMMENDED: *[Signature]*
 CHIEF OF DIVISION: *[Signature]*
 (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78)

U.S. ENVIRONMENTAL PROTECTION AGENCY
 REGION I
 NORWOOD PCB SITE SOIL REMEDIATION
 GROUNDWATER EXTRACTION WELL,
 MONITORING WELL, AND SOIL
 BORING LOCATION PLAN

SOLICITATION NUMBER: NOS-2
 DRAWING CODE: NOS-2
 DATE: AUGUST 1994
 CADD NO: CZNOR008.DWG

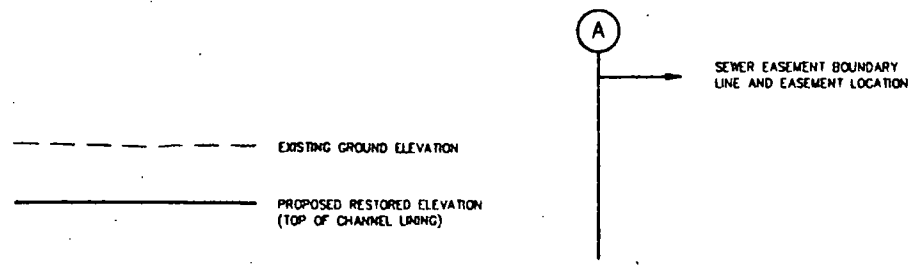
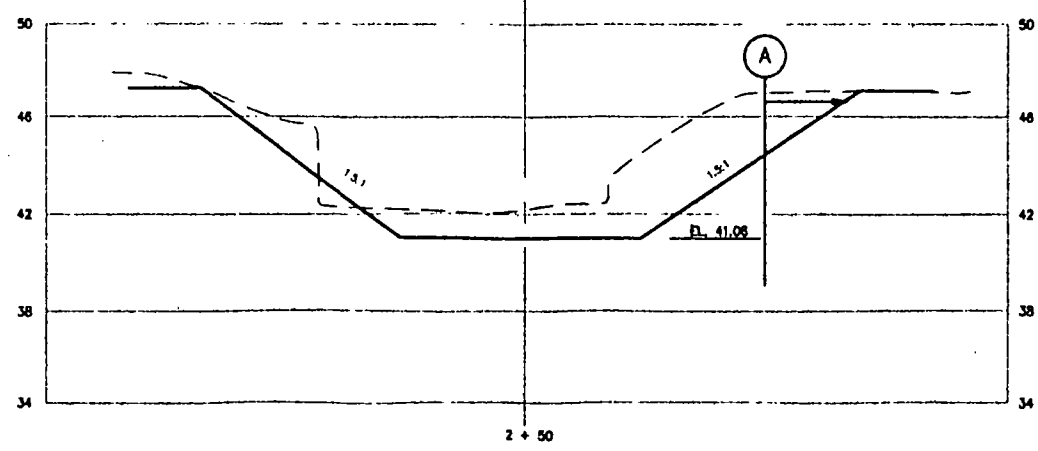
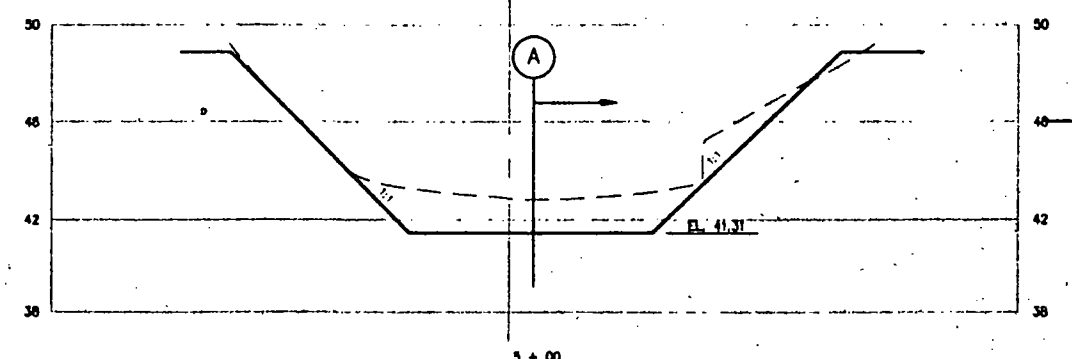
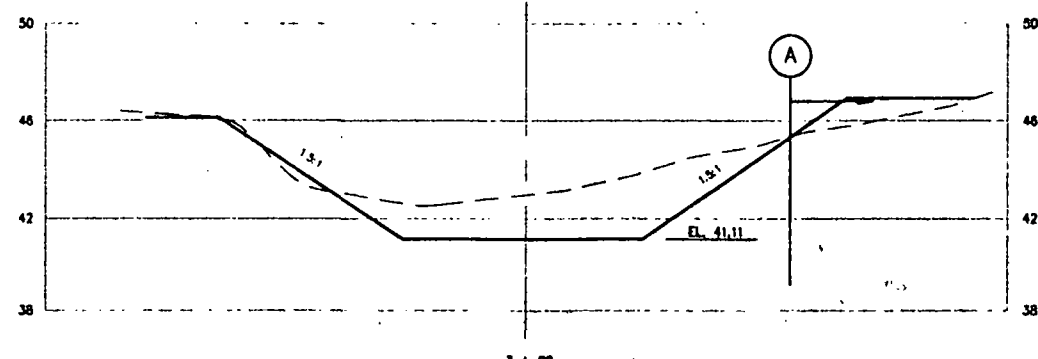
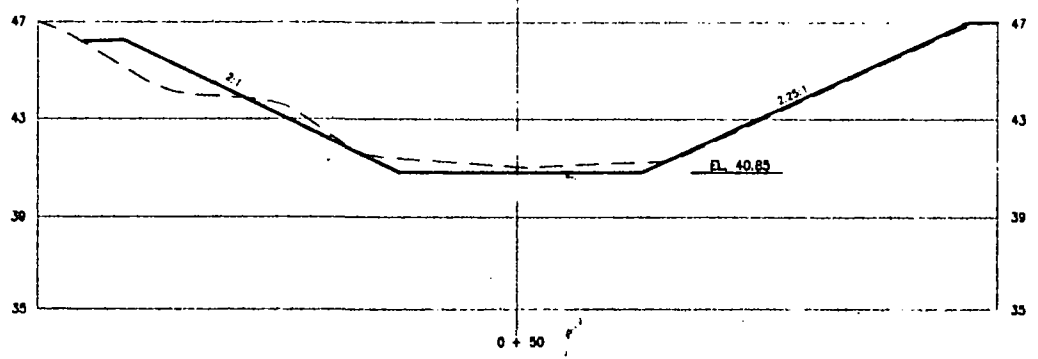
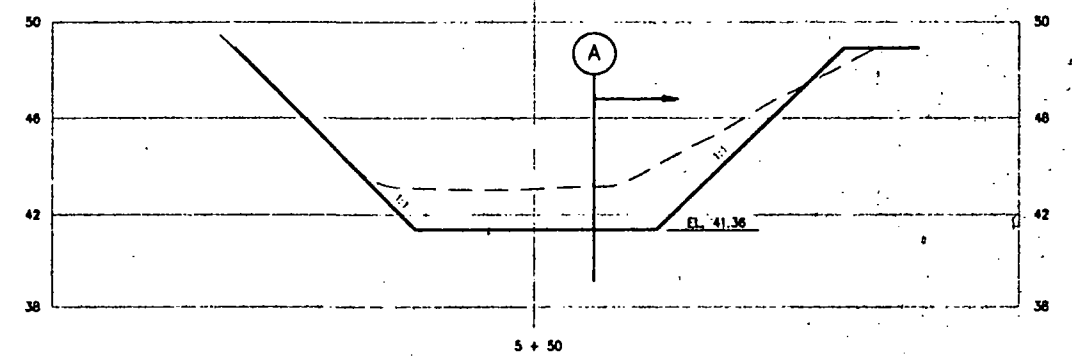
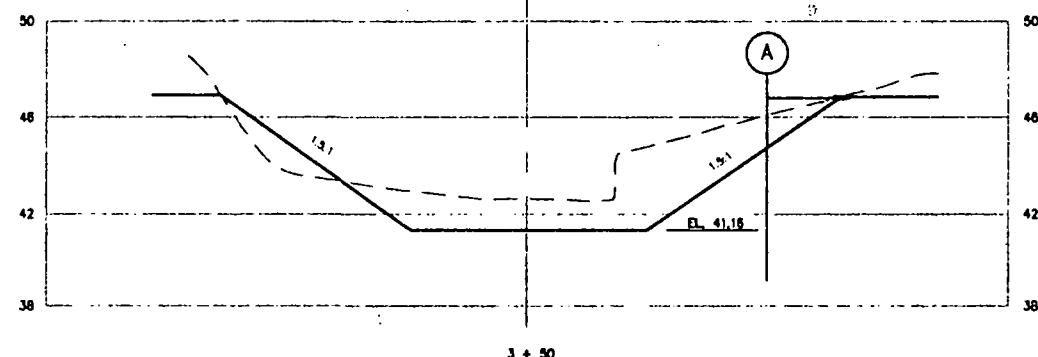
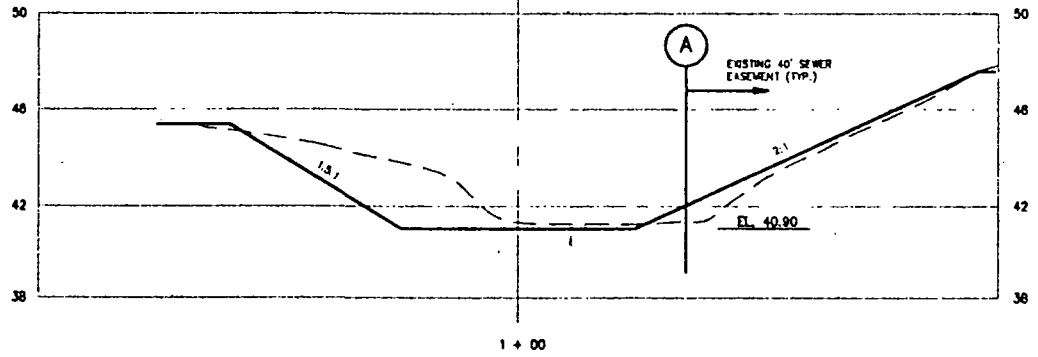
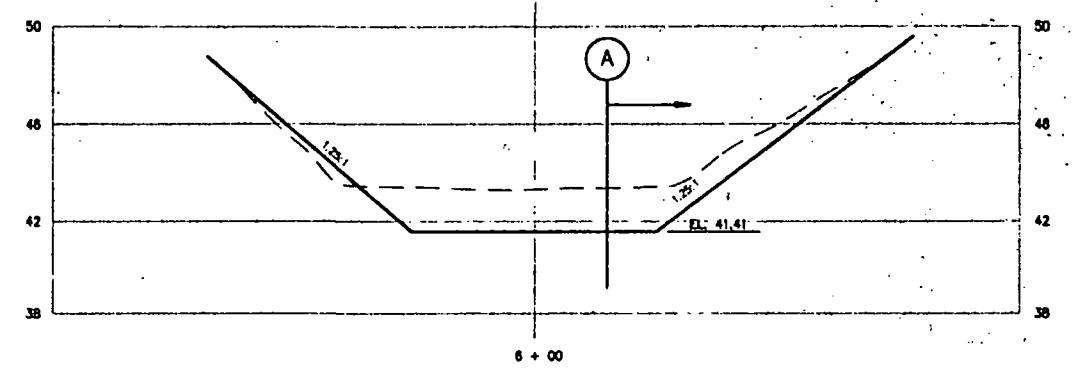
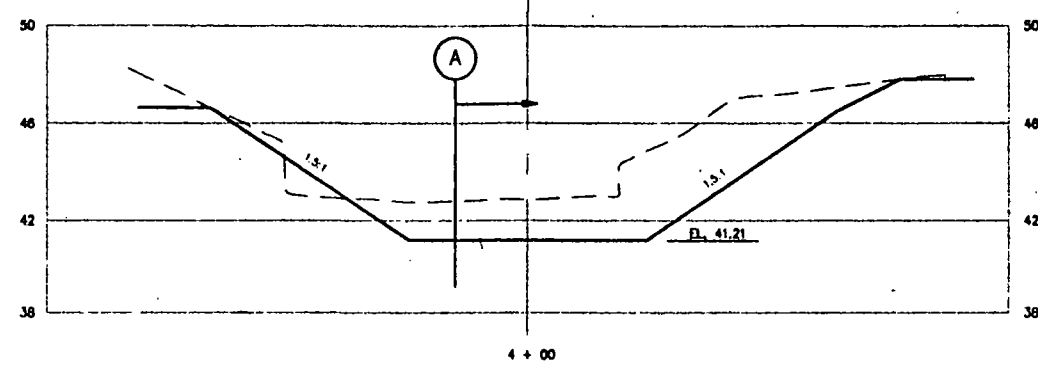
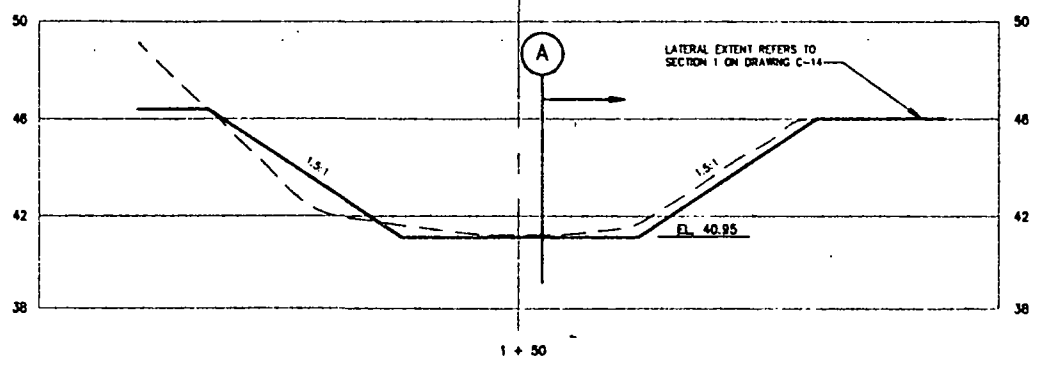
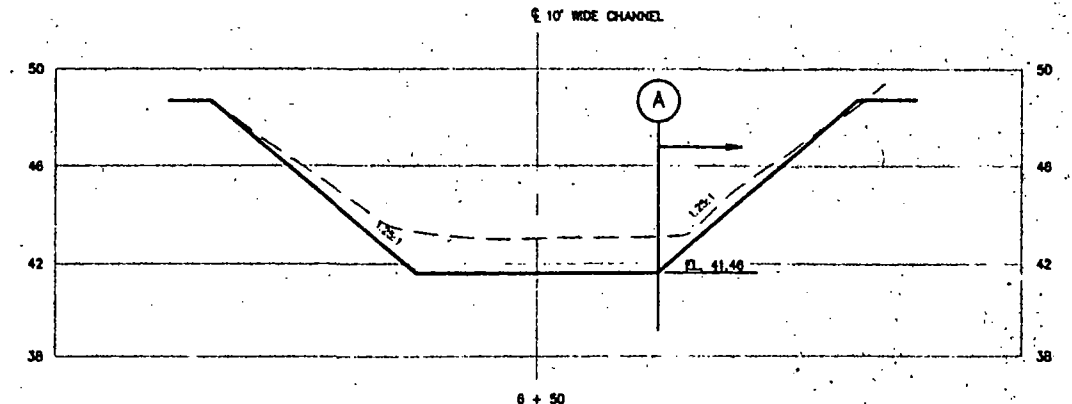
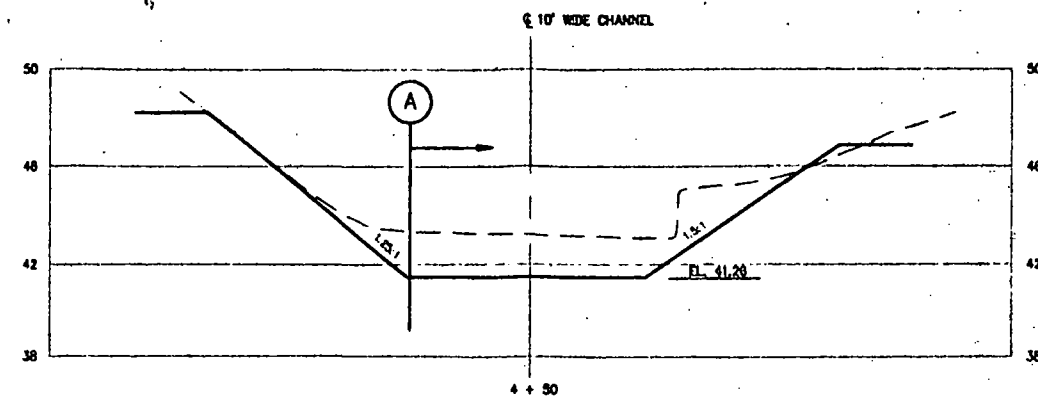
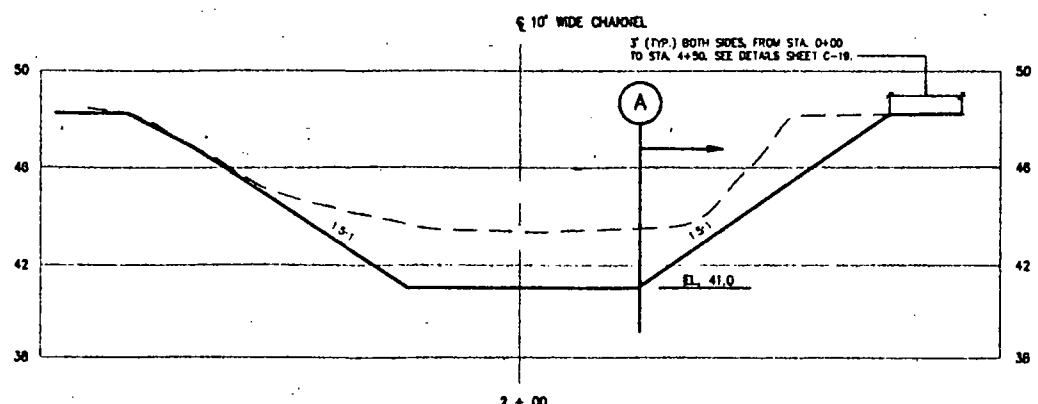
SHEET REFERENCE: C-15
 SHEET 17 OF 23



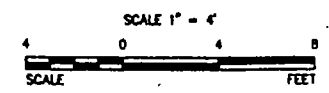
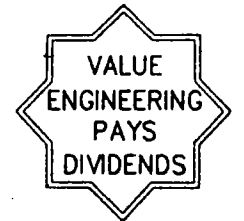
VALUE ENGINEERING PAYS DIVIDENDS

SAFETY PAYS

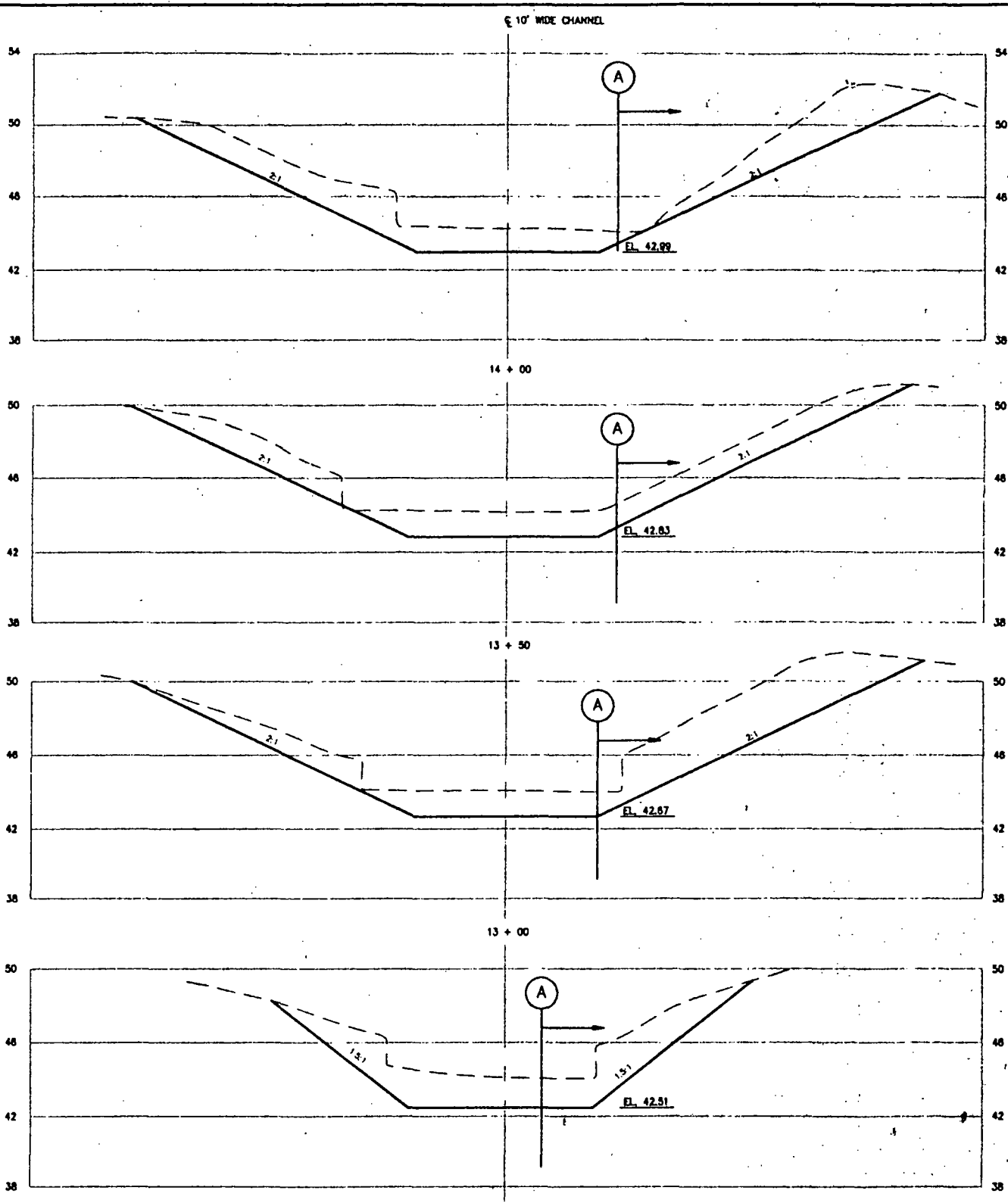
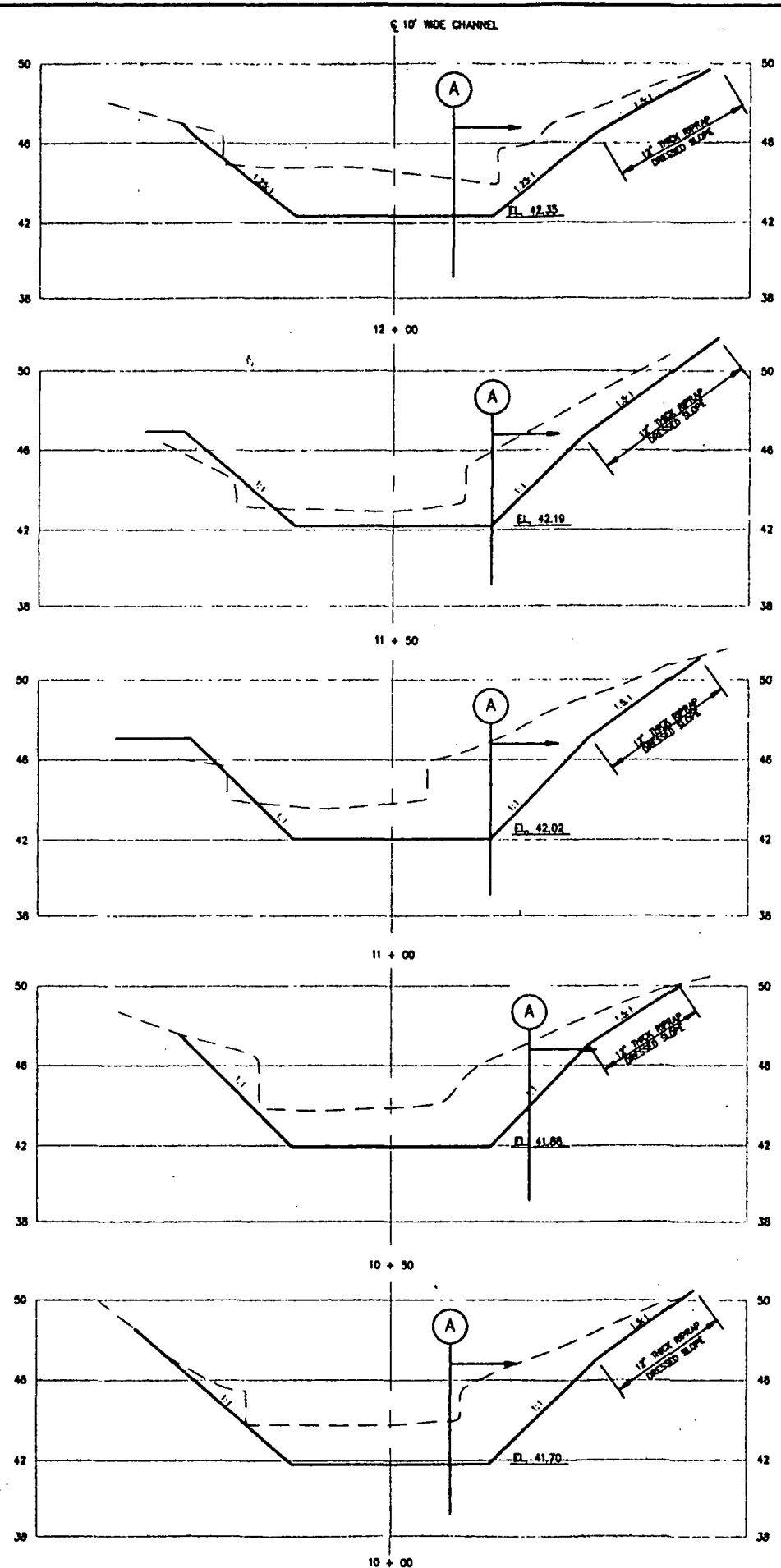
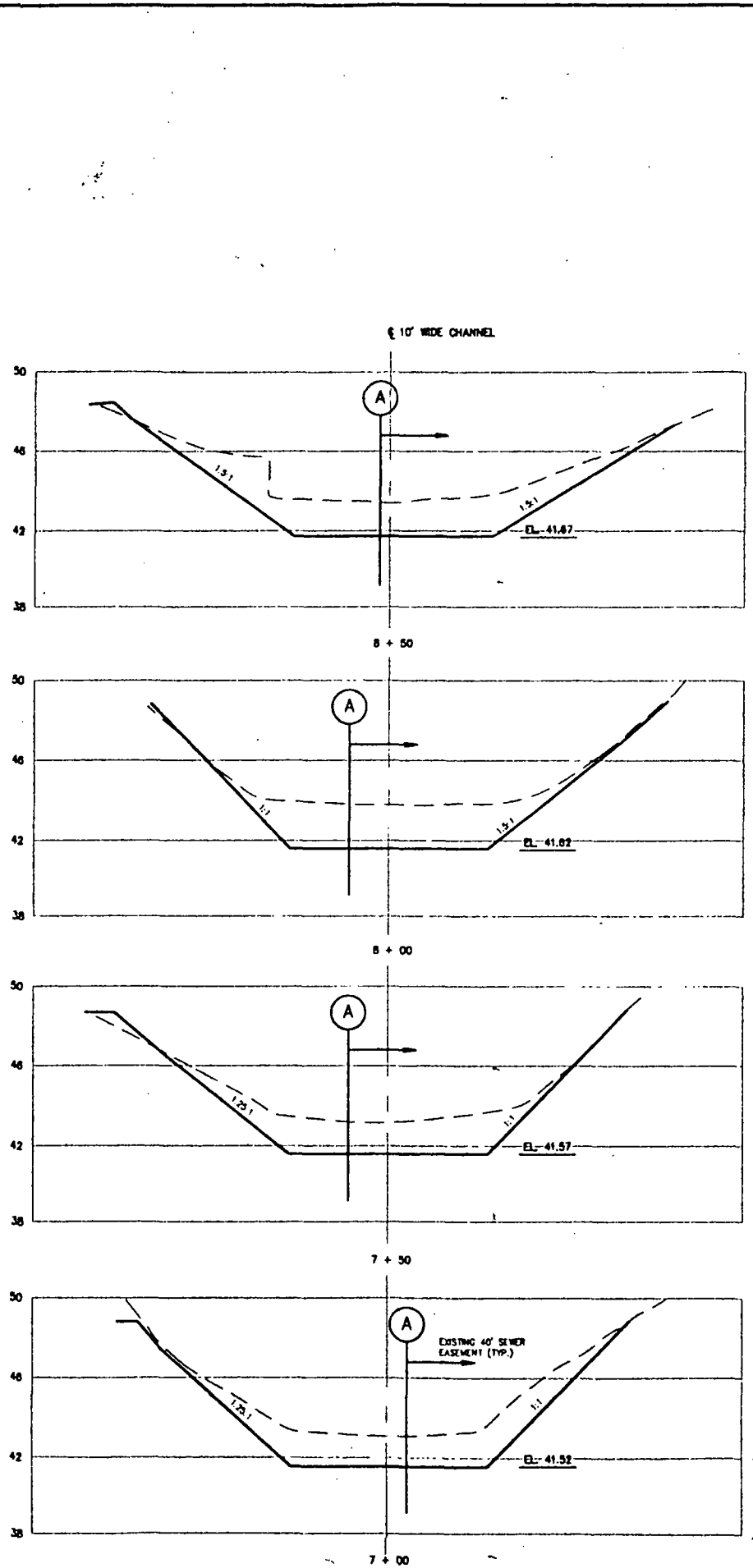
[Professional Engineer Seal]



NOTES:
1. EXISTING GROUND ELEVATION FROM "IMPROVEMENTS TO MEADOW BROOK" BY FAY, SPOFFORD AND THORNDIKE, JULY, 1988
2. ELEVATION CHANGED FROM TOWN OF NORWOOD TO NVOD JANUARY, 1994

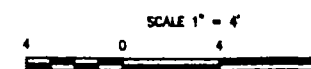


SYMBOLS	REVISIONS	DATE	APPROVED
DESCRIPTIONS			
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS		M&E METCALF & EDDY	
DESIGNED BY: S. OBRIEN		U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I	
DRAWN BY: K. LETCH		NORWOOD PCB SITE SOIL REMEDIATION	
REVIEWED BY: <i>[Signature]</i>		MEADOW BROOK SECTIONS I	
SUBMITTED BY: <i>[Signature]</i>			
APPROVAL RECOMMENDED: <i>[Signature]</i>			
SCALE: AS SHOWN		SOLICITATION NUMBER:	SHEET REFERENCE:
DATE: AUGUST 1994		NOS-2	C-16
CADD NO: CXNOR001.DWG			SHEET 18 OF 23

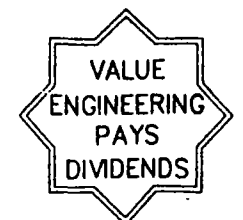


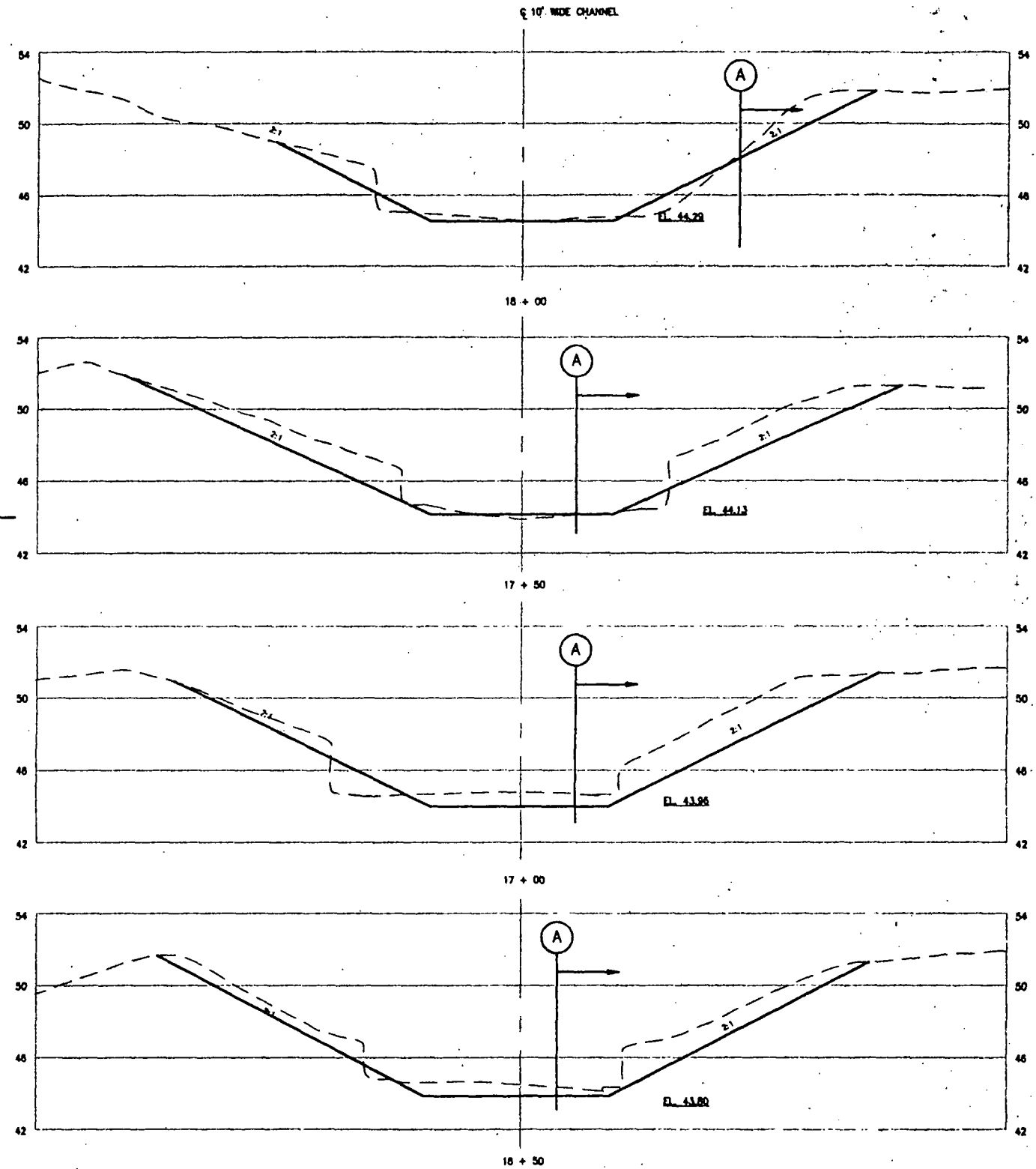
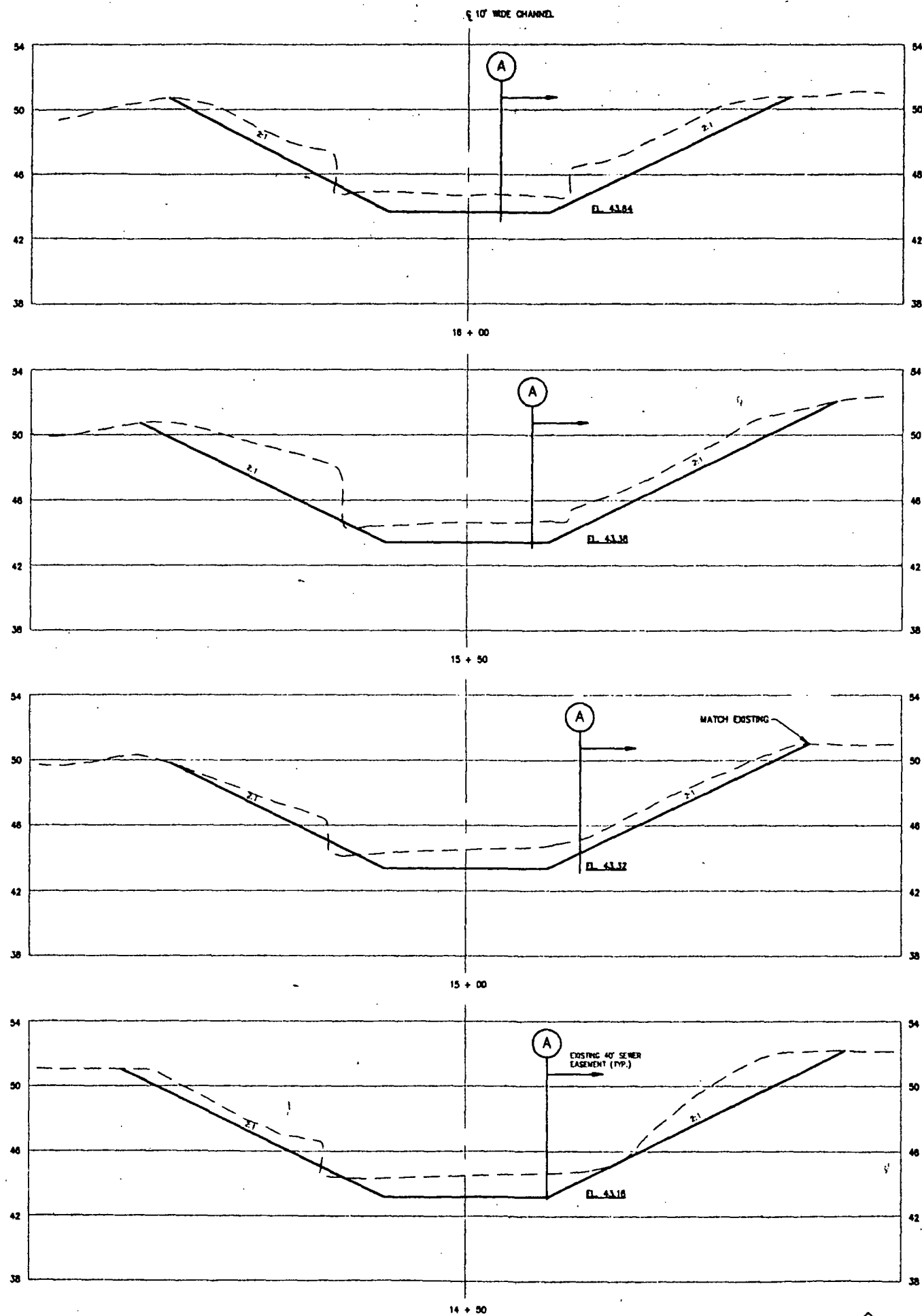
--- EXISTING GROUND ELEVATION
 — PROPOSED RESTORED ELEVATION

- NOTES:
 1. EXISTING GROUND ELEVATION FROM "IMPROVEMENTS TO MEADOW BROOK" BY FAY, SPOFFORD AND THORNDIKE, JULY, 1988
 2. ELEVATION CHANGED FROM TOWN OF NORWOOD TO NVGD JANUARY, 1994



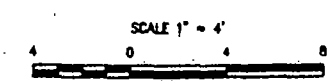
SYMBOLS		REVISIONS	DATE	APPROVED
DESCRIPTIONS				
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS				
DESIGNED BY: S. OBRIEN	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I			
DRAWN BY: K. LETCH	NORWOOD PCB SITE SOIL REMEDIATION			
REVIEWED BY: <i>W. G. Moorey</i>	MEADOW BROOK SECTIONS II			
SUBMITTED BY: <i>[Signature]</i>	APPROVAL RECOMMENDED: <i>[Signature]</i>			
(AS REQUIRED BY ENGINEERING CIRCULAR NO. 1119-1-78) SCALE: AS SHOWN		SOLICITATION NUMBER:	SHEET REFERENCE:	
DATE: AUGUST 1994		DRAWING CODE: NOS-2	C-17	
CADD NO: CXNOR002.DWG		SHEET 19 OF 23		



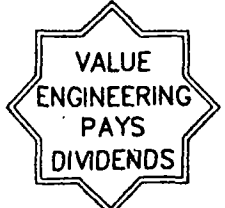


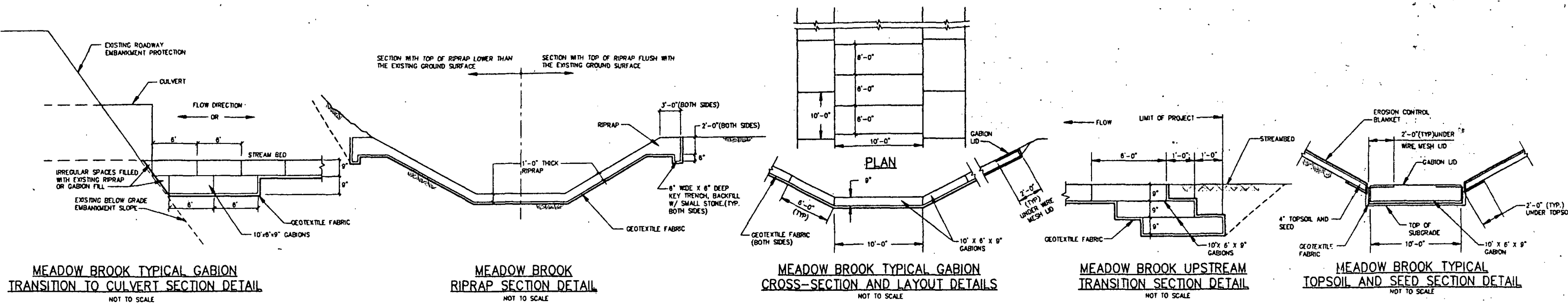
--- EXISTING GROUND ELEVATION
 ——— PROPOSED RESTORED ELEVATION

NOTES:
 1. EXISTING GROUND ELEVATION FROM "IMPROVEMENTS TO MEADOW BROOK" BY FAY, SPOFFORD AND THORNDIKE, JULY, 1988
 2. ELEVATION CHANGED FROM TOWN OF NORWOOD TO NYGD JANUARY, 1994



SYMBOLS		REVISIONS		DATE	APPROVED
		DESCRIPTIONS			
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS					
DESIGNED BY: S. O'BRIEN		U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I			
DRAWN BY: K. LETCH		NORWOOD PCB SITE SOIL REMEDIATION			
REVIEWED BY: <i>W. J. Money</i>		MEADOW BROOK SECTIONS III			
SUBMITTED BY: <i>[Signature]</i>		SOLICITATION NUMBER:		SHEET REFERENCE:	
APPROVAL RECOMMENDED: <i>[Signature]</i>		DRAWING CODE:		C-18	
SCALE: AS SHOWN		NOS-2		SHEET 20 OF 23	
DATE: AUGUST 1994		CADD NO: CXNOR003.DWG			





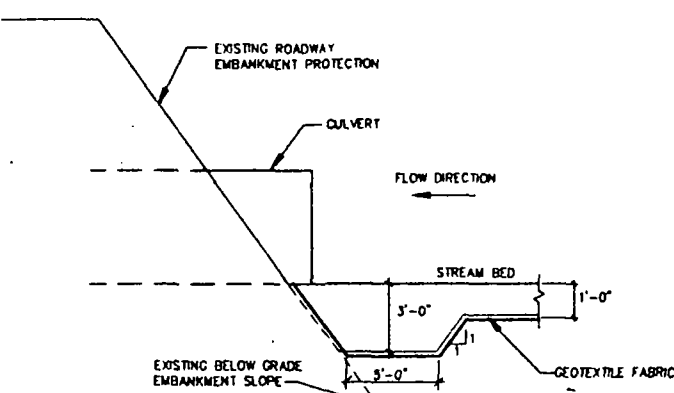
MEADOW BROOK TYPICAL GABION TRANSITION TO CULVERT SECTION DETAIL
NOT TO SCALE

MEADOW BROOK RIPRAP SECTION DETAIL
NOT TO SCALE

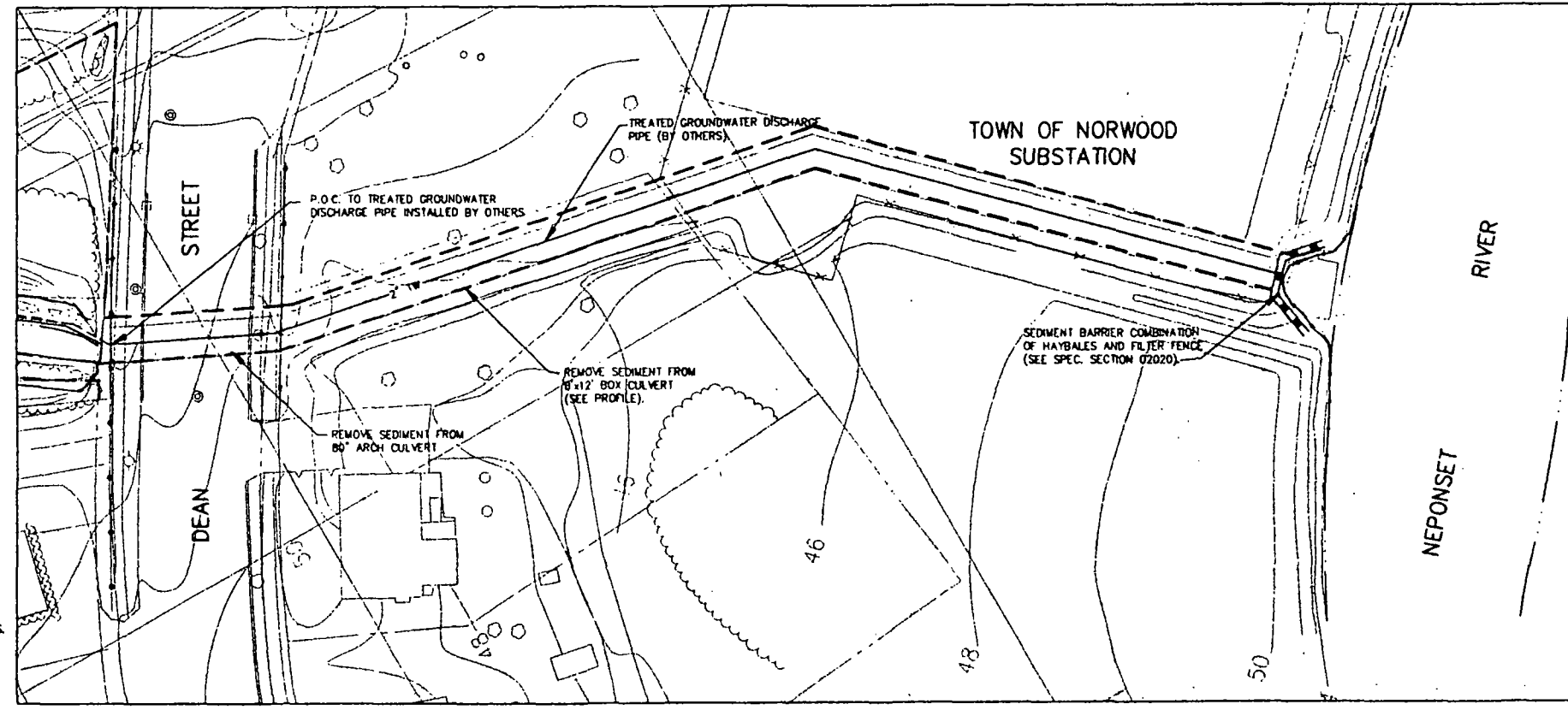
MEADOW BROOK TYPICAL GABION CROSS-SECTION AND LAYOUT DETAILS
NOT TO SCALE

MEADOW BROOK UPSTREAM TRANSITION SECTION DETAIL
NOT TO SCALE

MEADOW BROOK TYPICAL TOPSOIL AND SEED SECTION DETAIL
NOT TO SCALE

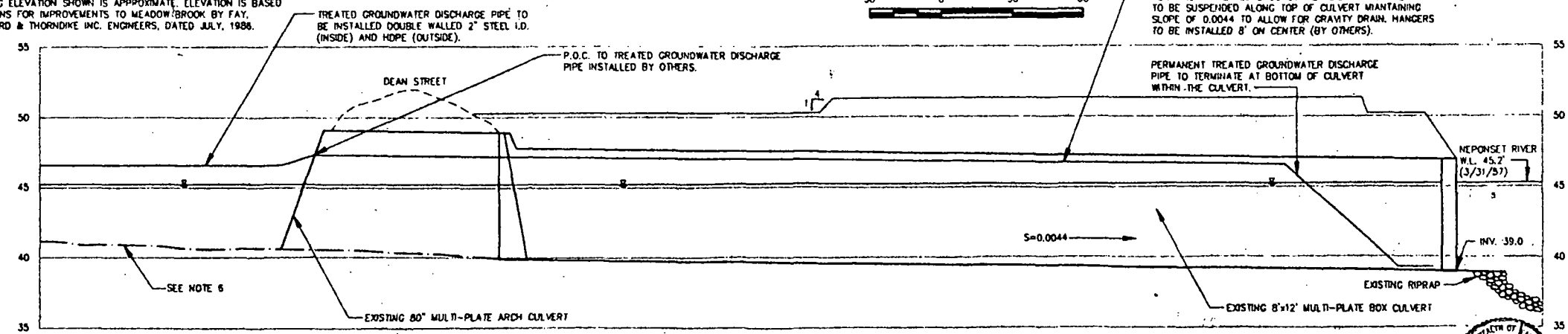


MEADOW BROOK RIPRAP TRANSITION TO CULVERT SECTION DETAIL
NOT TO SCALE



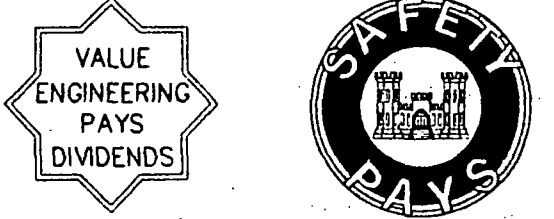
PLAN
SCALE 1" = 30'

- NOTES**
1. BASE MAP WAS COMPILED BY DIVERSIFIED TECHNOLOGY INC. AERIAL PHOTOGRAMMETRY & GROUND SURVEY. FLIGHT DATE MARCH 12, 1988.
 2. EXISTING UTILITIES WERE COMPILED FROM BASE MAPS OBTAINED FROM BAY STATE GAS AND TOWN OF NORWOOD RECORD DRAWINGS. M&E, MARCH 12, 1988.
 3. THE PROPERTY LINES WERE COMPILED FROM TOWN OF NORWOOD TAX MAPS, REVISED JANUARY 1980.
 4. EXCAVATION DETAILED IN SPECIFICATION SECTION 02020.
 5. DEAN STREET CULVERT PLAN AND PROFILE COMPILED FROM PLANS FOR THE TOWN OF NORWOOD MUNICIPAL LIGHT DEPARTMENT, METER SUBSTATION BY ARB ENGINEERS 1/19/22.
 6. EXISTING ELEVATION SHOWN IS APPROXIMATE. ELEVATION IS BASED ON PLANS FOR IMPROVEMENTS TO MEADOW BROOK BY FAY, SPOFFORD & THORNDIKE INC. ENGINEERS, DATED JULY, 1988.



DEAN ST. CULVERT PROFILE
SCALE: HOR. N.T.S. VER. 1" = 5'

- GENERAL NOTES:**
1. MEADOW BROOK STREAM IMPROVEMENTS ALL EXISTING GROUND ELEVATIONS TAKEN FROM CROSS-SECTIONS ON DRAWINGS FOR "MEADOW BROOK IMPROVEMENTS" BY FAY, SPOFFORD AND THORNDIKE, JULY 1988 AND ADJUSTED TO MVGD BY M&E, INC. JAN. 1994.
 2. HYDROLOGIC DATA WAS TAKEN FROM "DRAINAGE REPORT FOR THE MEADOW BROOK WATERSHED" PREPARED FOR THE TOWN OF NORWOOD BY FAY, SPOFFORD AND THORNDIKE, OCT. 1980 ALTERNATE B.
 3. CHANNEL STATION FROM TO BOTTOM SLOPE TYPE OF CHANNEL LINER
 STA 0+00 STA 4+50 RIPRAP RIPRAP
 STA 4+50 STA 13+00 GABION GABION
 STA 13+00 STA 18+35 GABION VEGETATION
 FOR LATERAL EXTENT OF SIDE SLOPE PROTECTION SEE DRAWINGS C-13, -14, -16, -17 AND -18
 4. FOR FUTURE TREATMENT AND USE THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND RIPRAP MATERIALS AT A LOCATION APPROVED BY THE CONTRACTING OFFICER.
 5. REFER TO DRAWING C-17 FOR 12" THICK RIPRAP DRESSED SLOPE BETWEEN STA 10+00 AND STA 12+00. THE CONTRACTOR SHALL USE THE EXISTING EXCESS RIPRAP MATERIALS, IF AVAILABLE, WITH THE APPROVAL OF THE CONTRACTING OFFICER.
 6. STONE PROTECTION ALL CHANNEL SLOPES AND BOTTOM ARE PROTECTED WITH RIP-RAP BETWEEN STA 0+00 AND STA 4+50. GABIONS ARE USED AS BANK PROTECTION WHERE STRUCTURES ENDOACH ON THE STREAM. RIP-RAP GRADATION SHALL BE AS SPECIFIED IN SPECIFICATION SECT. 02270. CONTRACTOR SHALL PLACE A GEOTEXTILE FABRIC ON THE PREPARED SUBGRADE AND THE RIP-RAP STONE IS DUMPED AND GRADED BY MACHINE TO THE SPECIFIED LINE AND GRADE.
 7. TOPSOIL AND SEED SIDE SLOPES BETWEEN STATIONS INDICATED 4" HORIZ. TO 1" VERT. ACCORDANCE WITH SPECIFICATION SECT 02911. DRESS SLOPES AT 2" HORIZ. TO 1" VERT. EXCAVATE STREAMBED 2'-0" IN ACCORDANCE WITH SPECIFICATION SECTION 02020. INSTALL GEOTEXTILE AND GABIONS IN STREAMBED. PLACE 4" TOPSOIL, SEED AND EROSION CONTROL BLANKET ON PREPARED SLOPES AS SPECIFIED.
 8. THE FINAL SUBGRADE SHALL BE PROOF-ROLLED BY USING TRACKED EXCAVATION EQUIPMENT, OR TAMPED WITH THE BUCKET OF EXCAVATION EQUIPMENT IN CONFINED AREAS, USE MANUALLY OPERATED VIBRATORY PLATE COMPACTORS WITH A MINIMUM OF 3 PASSES. BACKFILL MATERIALS SHALL BE COMPACTED IN ACCORDANCE WITH SPECIFICATION SECTION 02020.
 9. SEE SHEET C-2 FOR ABBREVIATIONS AND SYMBOLS.

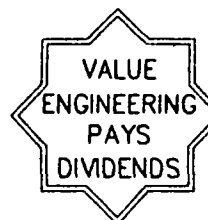


SYMBOLS	REVISIONS	DATE	APPROVED
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS		M&E METCALF & EDDY	
DESIGNED BY: S. O'BRIEN DRAWN BY: K. LETCH REVIEWED BY: W. G. MOONEY SUBMITTED BY:	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I NORWOOD PCB SITE SOIL REMEDIATION		
CIVIL DETAILS AND DEAN ST. CULVERT PLAN & PROFILE			
APPROVAL RECOMMENDED: (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-76) SCALE: AS SHOWN DATE: AUGUST 1994 CADD NO: CZNOR012.DWG	SOLICITATION NUMBER: NOS-2	SHEET REFERENCE: C-19 SHEET 21 OF 23	



LEGEND

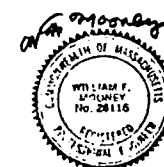
→ HAUL ROUTES

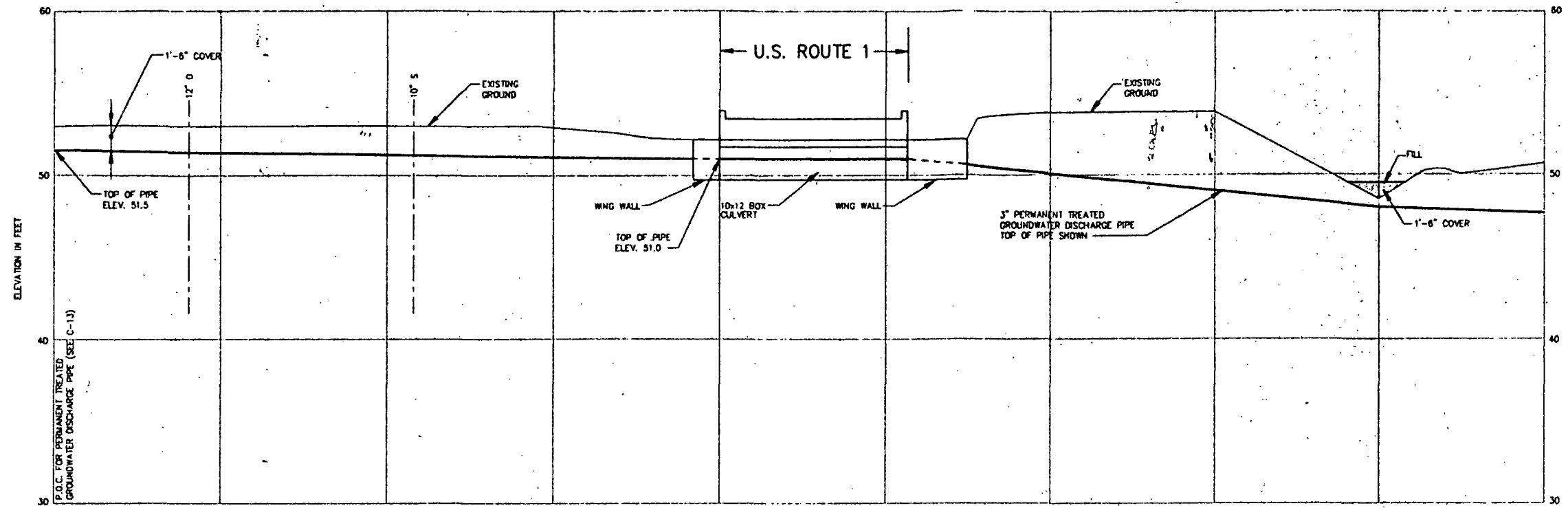


SCALE 1" = 200'

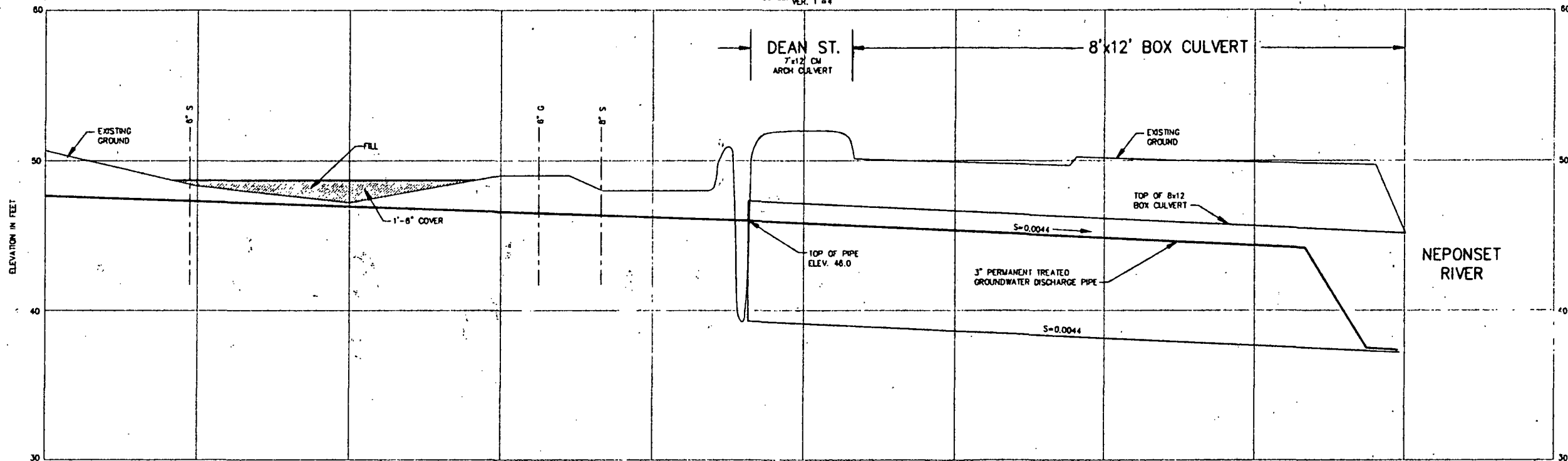


SYMBOLS	REVISIONS	DATE	APPROVED
DESCRIPTIONS			
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS		M&E METCALF & EDDY	
DESIGNED BY: S. O'BRIEN	U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1		
DRAWN BY: K. LETCH	NORWOOD PCB SITE SOIL REMEDIATION		
REVIEWED BY: <i>W.F. Mooney</i>	HAUL ROUTES		
SUBMITTED BY: <i>W.F. Mooney</i>	APPROVAL RECOMMENDED: <i>W.F. Mooney</i>		
CHIEF OF DISTRICT (AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-76)	SOLICITATION NUMBER:	SHEET REFERENCE:	
SCALE: 1"=200'	DRAWING CODE:	C-20	
DATE: AUGUST 1994	NOS-2	SHEET 22 OF 23	
CADD NO: C2NOR020.DWG			



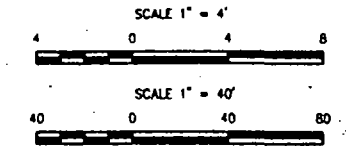


PROFILE
 HOR. 1" = 40'
 SCALE: VER. 1" = 4'



PROFILE
 HOR. 1" = 40'
 SCALE: VER. 1" = 4'

- GENERAL NOTES:
1. DEAN STREET CULVERT PROFILE COMPILED FROM PLANS FOR THE TOWN OF NORWOOD MUNICIPAL LIGHT DEPARTMENT MASTER SUBSTATION BY ABR ENGINEERS JAN. 19, 1972.
 2. ROUTE 1 CULVERT PROFILE COMPILED FROM PLAN FOR "MEADOW BROOK IMPROVEMENTS" BY FAY, SPOFFORD AND THORNDIKE JULY 1988.



SYMBOLS	REVISIONS	DATE	APPROVED
DESCRIPTIONS			
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION WALTHAM, MASSACHUSETTS			
DESIGNED BY: W. MOONEY		U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1	
DRAWN BY: K. LETCH		NORWOOD PCB SITE SOIL REMEDIATION	
REVIEWED BY: <i>[Signature]</i>		PERMANENT TREATED GROUNDWATER DISCHARGE PIPE PROFILE	
SUBMITTED BY: <i>[Signature]</i>		APPROVAL RECOMMENDED: <i>[Signature]</i>	
(AS REQUIRED BY ENGINEERING CIRCULAR NO. 1110-1-78) SCALE: AS SHOWN		SOLICITATION NUMBER: 3 SHEET REFERENCE:	
DATE: AUGUST 1994		DRAWING CODE: NOS-2	
CADD NO: C2NOR021.DWG		C-21 SHEET 23 OF 23	

