



999 WEST VALLEY ROAD • WAYNE, PENNSYLVANIA 19087 • (215) 971-0900

May 6, 1992

Project Number 4367

Naval Facilities Engineering Command
Northern Division Code 1821
Building 77-L, United States Navy Yard
Philadelphia, PA 19112-5094

Attention: Gerald Hoover, Remedial Project Manager

Reference: CLEAN Contract No. N62472-90-1298
Contract Task Order (CTO) 55

Subject: Summary Report of March 10, 1992 Soil Sampling and
Analysis
NWS Earle, Colts Neck, New Jersey

Dear Mr. Hoover:

In accordance with your request, this letter provides a brief summary description of the field activities and evaluation for the collection and analysis of soil samples from the proposed site of the Child Development Center (CDC) at the Naval Weapons Station, Earle located in Colts Neck, New Jersey. HALLIBURTON NUS Environmental Corporation conducted the sample collection and analysis in accordance with Contract Task Order (CTO) 55 including the 27 February, 1992 "Field Sampling Plan" as developed by the Navy and submitted as part of the request for services under CLEAN Contract No. N62472-90-1298.

FIELD ACTIVITIES

HALLIBURTON NUS visited the NWS Earle site on March 10, 1992. The purpose of the site visit was to collect soil samples from locations and at depth intervals specified by the Navy. The samples were to be collected and preserved in accordance current United States Environmental Protection Agency (EPA) and New Jersey State Department of Environmental Protection and Energy (NJDEPE) protocols.

The Navy requested that soil samples be collected from nine locations at a rail siding area, from the six inch to twelve inch depth zone, and analyzed for EPA Target Compound List (TCL) PCBs. Eight soil samples were also collected from four Navy specified locations at the proposed play area of the CDC. Samples were collected at each location from the 0 inch to six inch depth zone and the six inch to twelve inch depth zone. All samples collected from the play area were analyzed for the full EPA TCL organics and

May 6, 1992

Page 2

Summary Report, Sample Collection and Analysis

NWS Earle

Colts Neck, New Jersey

Target Analyte List (TAL) inorganics list compounds. Refer to the attached Table 1 for a summary of the sampling and analysis plan which was implemented. Refer to the attached Figures 1 and 2 for approximate locations of samples.

All samples, including field samples, field rinse blanks, trip blanks, and field duplicates were obtained in accordance with EPA and NJDEPE protocols. All field sampling equipment was decontaminated in accordance with EPA and NJDEPE guidelines.

All samples were packaged in the field, preserved, and shipped to the laboratory in accordance with EPA and NJDEPE protocols and minimum holding time requirements. All sample shipments were accompanied with appropriate chain-of-custody documentation.

LABORATORY ANALYSIS

Laboratory analysis was conducted by Ortek Environmental Laboratory, Green Bay, Wisconsin. All analytical parameters were specified by the Navy. The analysis was conducted in accordance with Naval Energy and Environmental Support Activity (NEESA) Level D Quality Control (QC) requirements. (Level D QC is equivalent to Comprehensive Environmental Response, Compensation and Liability Act, CERCLA QC Level 3.)

All samples were analyzed in accordance with methods specified in the EPA Contract Laboratory Program (CLP) Scope of Work (SOW). Refer to Table 1 for a summary of the analytical parameters and methods which were completed for each soil sample.

DATA VALIDATION

The NEESA Level D Data Package provided by Ortek was validated by HALLIBURTON NUS prior to submission. The data validation was conducted in accordance with EPA's "Functional Guidelines for Organic Data Validation" (February 1988) and "Functional Guidelines for Inorganic Data Validation" (July 1988) as amended for use by EPA Region II and current Navy direction.

May 6, 1992

Page 3

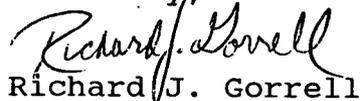
Summary Report, Sample Collection and Analysis

NWS Earle

Colts Neck, New Jersey

I trust that this information meets your requirements. Do not hesitate to contact me if you have any questions or require further evaluation and assessment of the analytical results in relation to current EPA and/or NJDEPE regulatory requirements.

Sincerely,


Richard J. Gorrell
Project Manager

Attachments

cc: J. Trepanowski, P.E. (HALLIBURTON NUS)

TABLE 1
NWS EARLE (CTO - 55)
SAMPLING AND ANALYSIS PLAN

Sample Description	Sample Type	Analytical Parameters	Analytical Method	NEESA QA/QC Level	Rationale
Group 1 Nine soil samples were obtained from the 6- to 12-inch depth zone at the rail siding area.	solid	TCL PCBs	EPA CLP SOW	D	Obtained to determine the presence or absence of PCBs at the specified sample locations.
Group 2 Four soil samples were obtained from the 0- to 6-inch depth zone at the CDC play area.	solid	Full TCL Full TAL	EPA CLP SOW	D	Obtained to determine the presence or absence of TCL and TAL contamination at the specified sample locations.
Group 3 Four soil samples were obtained from the 6- to 12-inch depth zone at the CDC play area.	solid	Full TCL Full TAL	EPA CLP SOW	D	Sample locations same as Group 2.
Field Duplicate ¹	solid	Full TCL Full TAL	EPA CLP SOW	D	Field QA/QC
Field Rinse Blank ¹	liquid	Full TCL Full TAL	EPA CLP SOW	D	Field QA/QC
Trip Blank ¹	liquid	VOC	EPA CLP SOW	D	Field QA/QC

Notes

¹ Does not include laboratory Qa/QC samples.

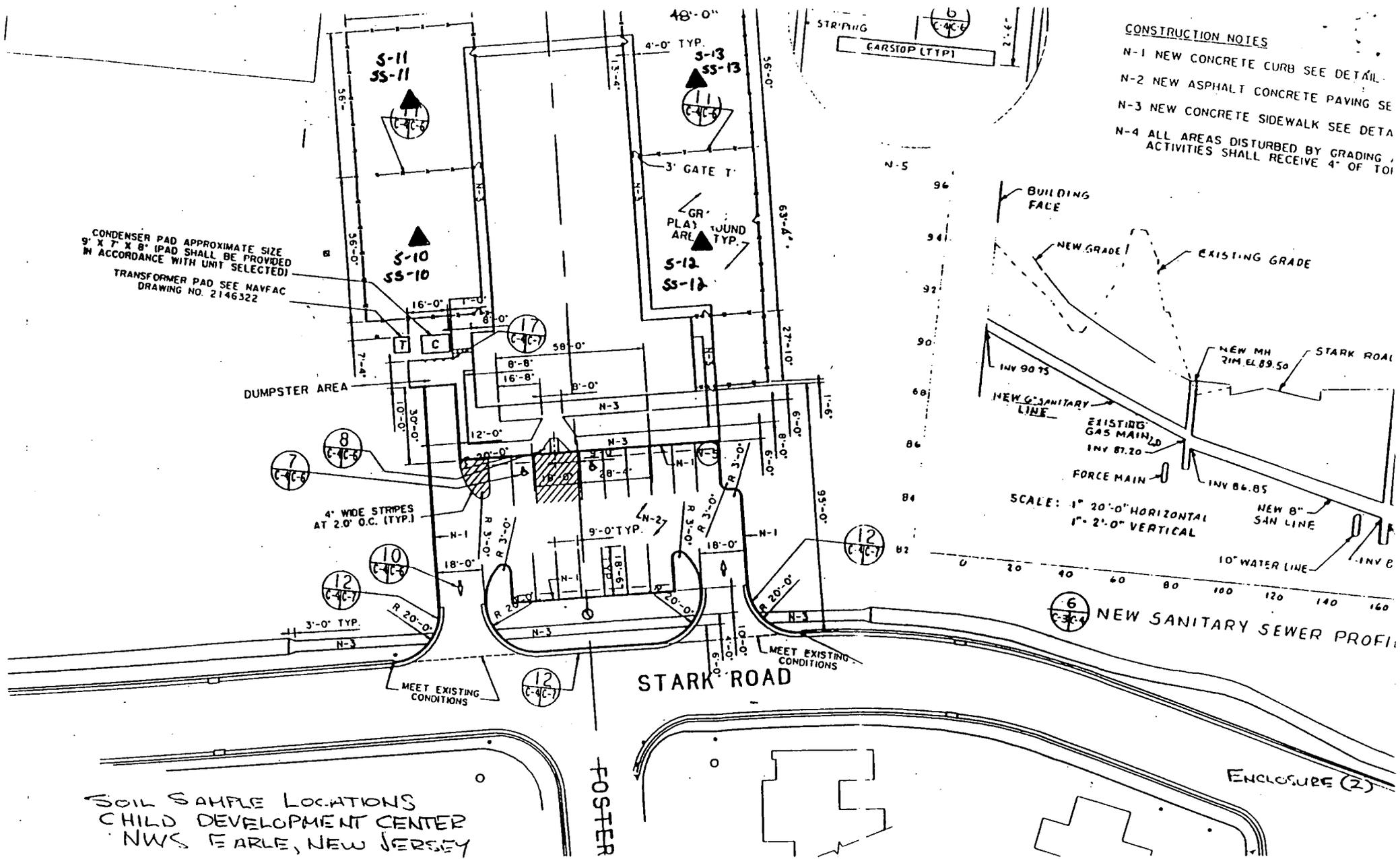
TCL: Target Compound List

TAL: Target Analyte List

PCBs: Polychlorinated biphenyls

VOC: Volatile organic compounds

EPA CLP SOW: United States Environmental Protection Agency Contract Laboratory Program Scope of Work



- CONSTRUCTION NOTES**
- N-1 NEW CONCRETE CURB SEE DETAIL.
 - N-2 NEW ASPHALT CONCRETE PAVING SEE DETAIL.
 - N-3 NEW CONCRETE SIDEWALK SEE DETAIL.
 - N-4 ALL AREAS DISTURBED BY GRADING / ACTIVITIES SHALL RECEIVE 4" OF TOP SOIL.

CONDENSER PAD APPROXIMATE SIZE
9' X 7' X 8" (PAD SHALL BE PROVIDED
IN ACCORDANCE WITH UNIT SELECTED)

TRANSFORMER PAD SEE NAVFAC
DRAWING NO. 2146322

SOIL SAMPLE LOCATIONS
CHILD DEVELOPMENT CENTER
NWS EARLE, NEW JERSEY

FIGURE 1
CHILD DEVELOPMENT CENTER - PLAY AREA

▲ - SAMPLE LOCATION (APPROXIMATE)
3/10/92 SAMPLE DATE

**NOTE: ALL SAMPLE LOCATIONS WERE STAKED
IN THE FIELD FOR FURTHER REFERENCE.**

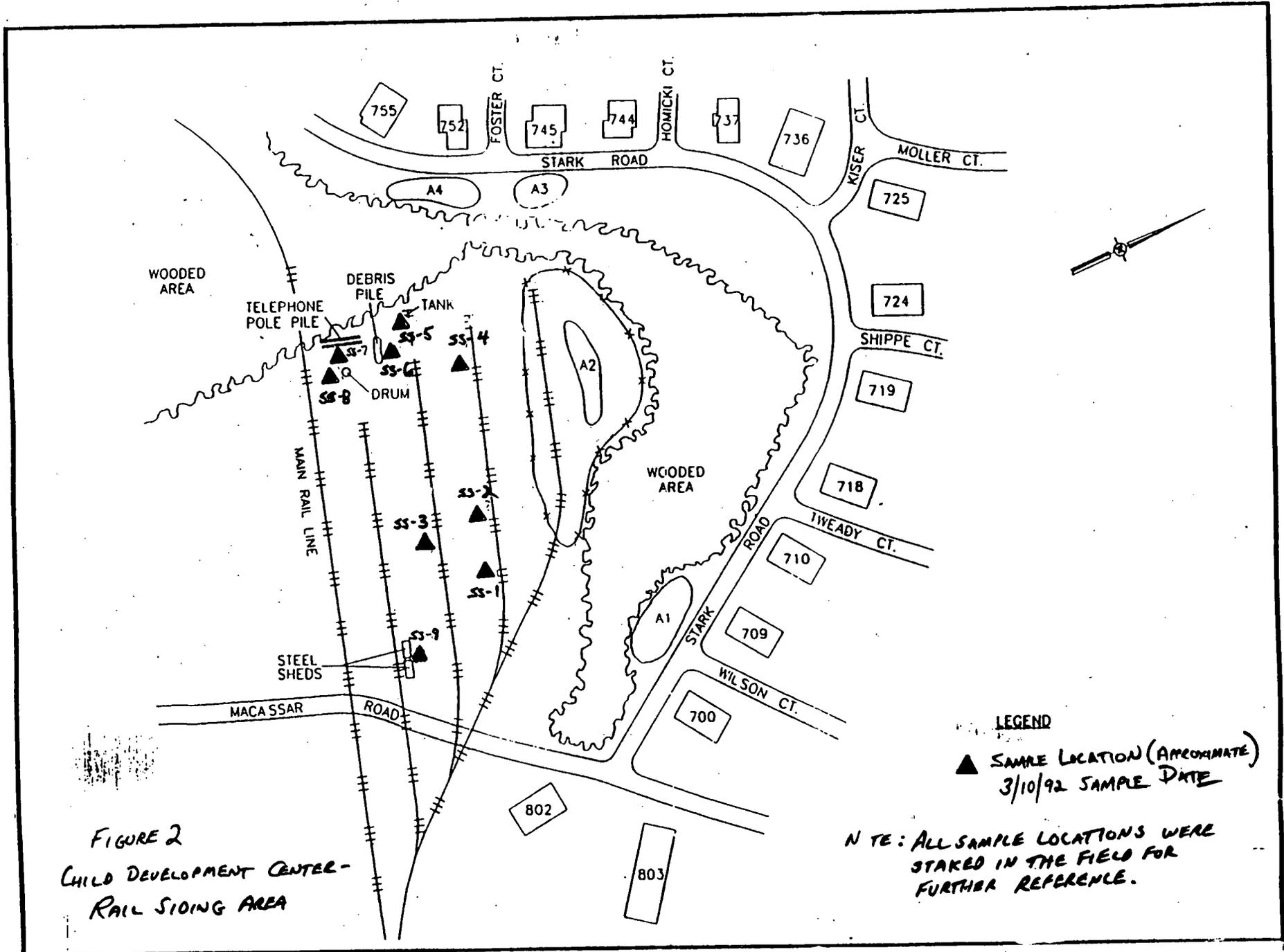
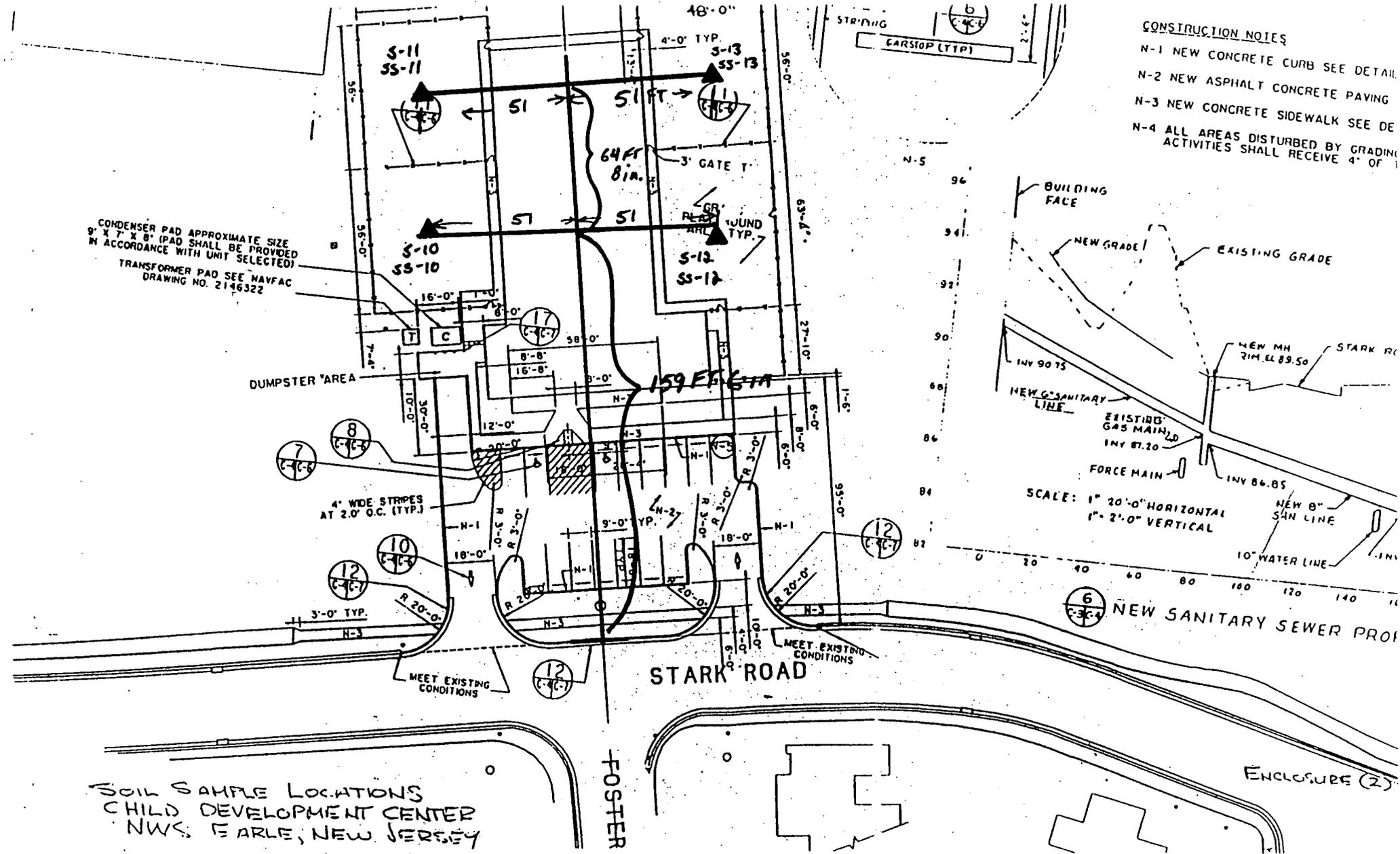


FIGURE 2
CHILD DEVELOPMENT CENTER -
RAIL SIDING AREA

PCB SOIL SAMPLE LOCATIONS
CHILD DEVELOPMENT CENTER

- CONSTRUCTION NOTES**
- N-1 NEW CONCRETE CURB SEE DETAIL
 - N-2 NEW ASPHALT CONCRETE PAVING
 - N-3 NEW CONCRETE SIDEWALK SEE DE
 - N-4 ALL AREAS DISTURBED BY GRADING ACTIVITIES SHALL RECEIVE 4" OF



CONDENSER PAD APPROXIMATE SIZE
9' X 7' X 8' (PAD SHALL BE PROVIDED
IN ACCORDANCE WITH UNIT SELECTED)
TRANSFORMER PAD SEE MAYFAC
DRAWING NO. 2146322

DUMPSTER AREA

4" WIDE STRIPES
AT 2.0' O.C. (TYP.)

MEET EXISTING
CONDITIONS

STARK ROAD

FOSTER

SOIL SAMPLE LOCATIONS
CHILD DEVELOPMENT CENTER
NWS. EARLE, NEW JERSEY

▲ - SAMPLE LOCATION (APPROXIMATE)
3/10/92 SAMPLE DATE

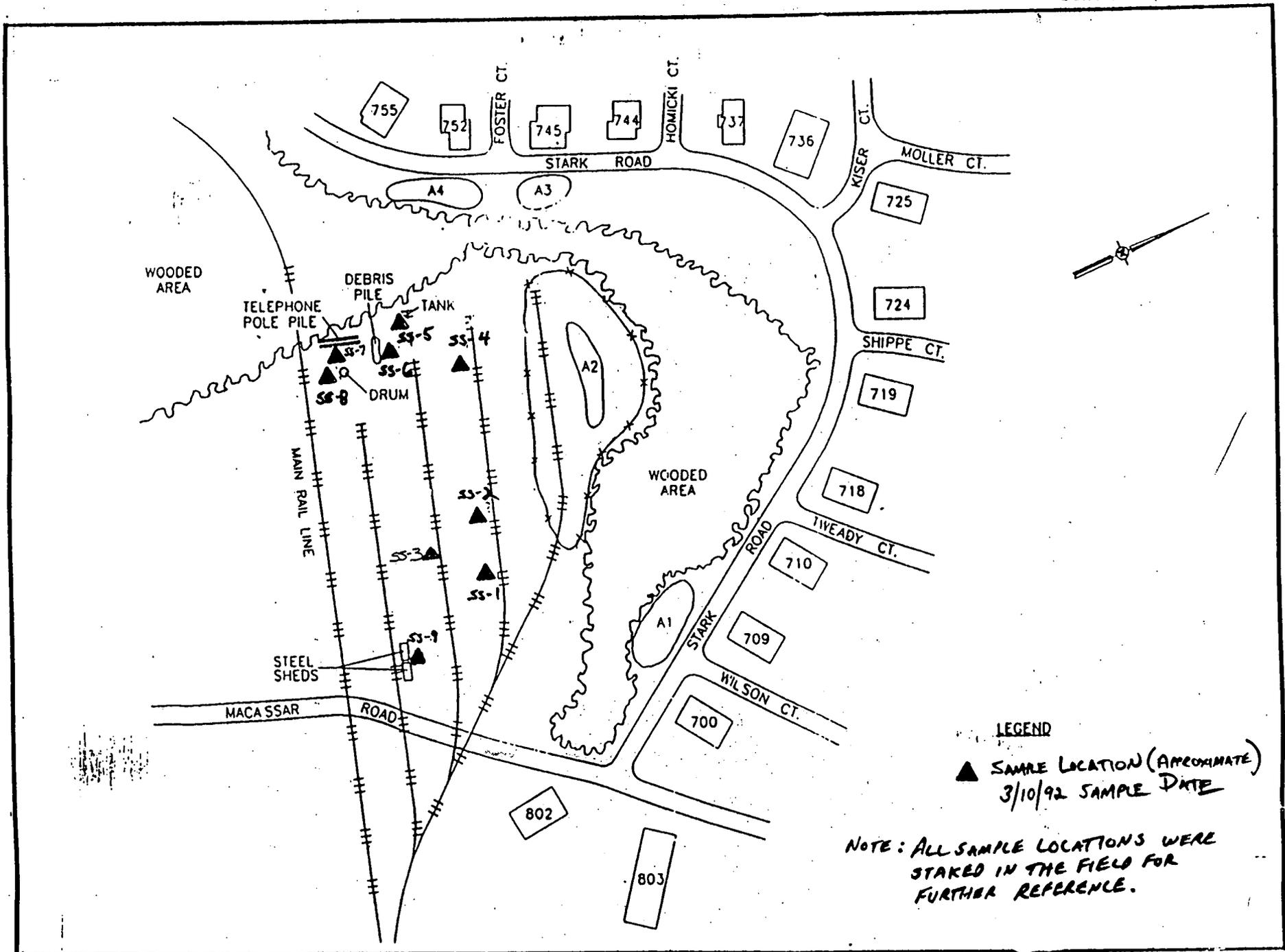
NOTE: ALL SAMPLE LOCATIONS WERE STAKED
IN THE FIELD FOR FURTHER REFERENCE.

SCALE: 1" = 20'-0" HORIZONTAL
1" = 2'-0" VERTICAL

NEW SANITARY SEWER PROJ

ENCLOSURE (2)

Naval Weapons Station - - EARLE
Colts Neck, New Jersey



LEGEND

▲ SAMPLE LOCATION (APPROXIMATE)
3/10/92 SAMPLE DATE

NOTE: ALL SAMPLE LOCATIONS WERE
STAKED IN THE FIELD FOR
FURTHER REFERENCE.

PCB SOIL SAMPLE LOCATIONS