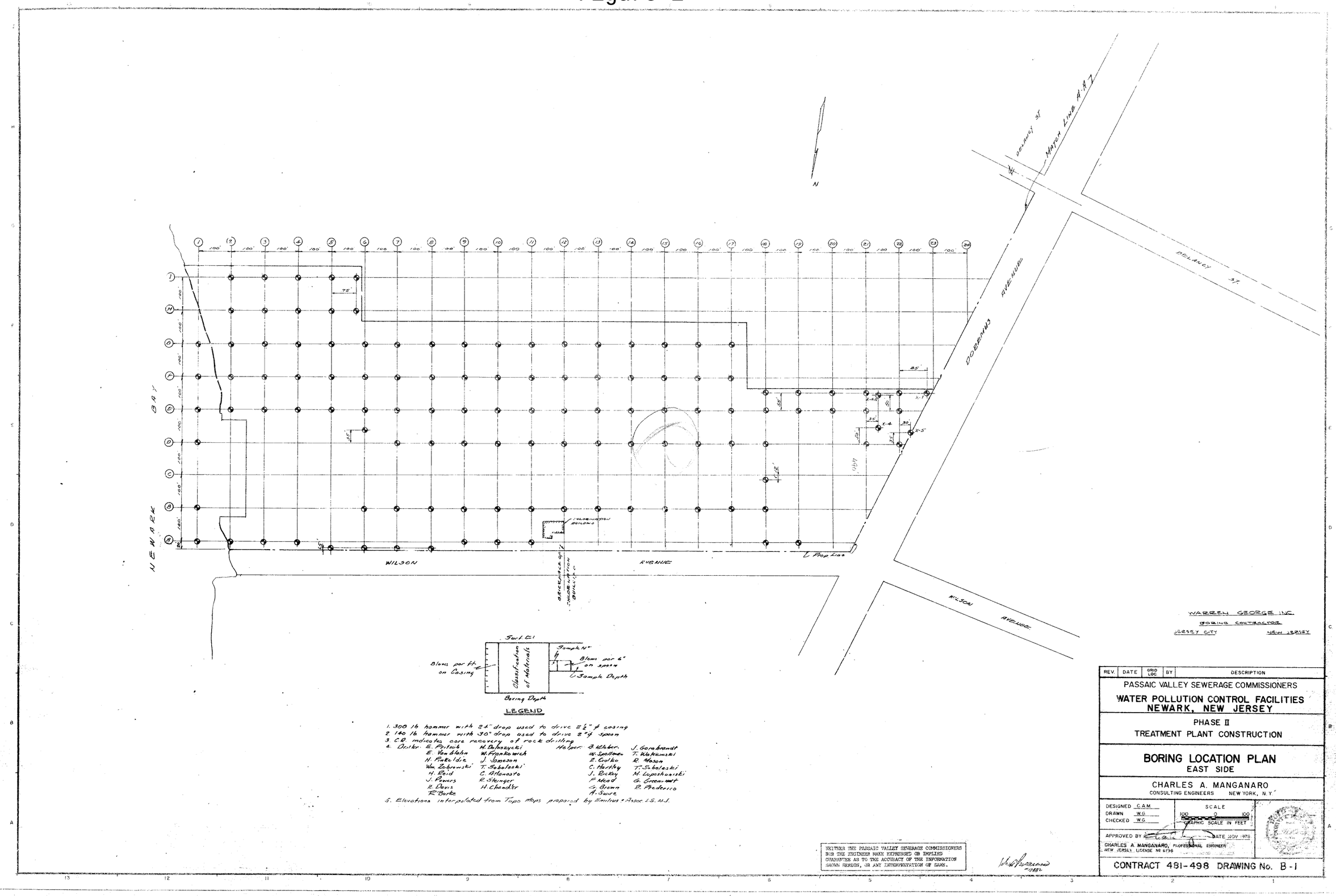
Appendix F: Boring Logs

- FIGURE 1: Boring Location Plans (East Side)
- FIGURE 2: Boring Location Plans (West Side)
- FIGURES 3.1 – 3.27: Boring Logs
- FIGURE 4: Boring Location Plans and Boring Logs
- FIGURE 5: Boring Location Plan
- FIGURES 6.1 – 6.5: Boring Logs (Soil Profiles)
- FIGURES 7.1 – 7.6: Boring Logs Location Maps

Appendix F: Boring Logs

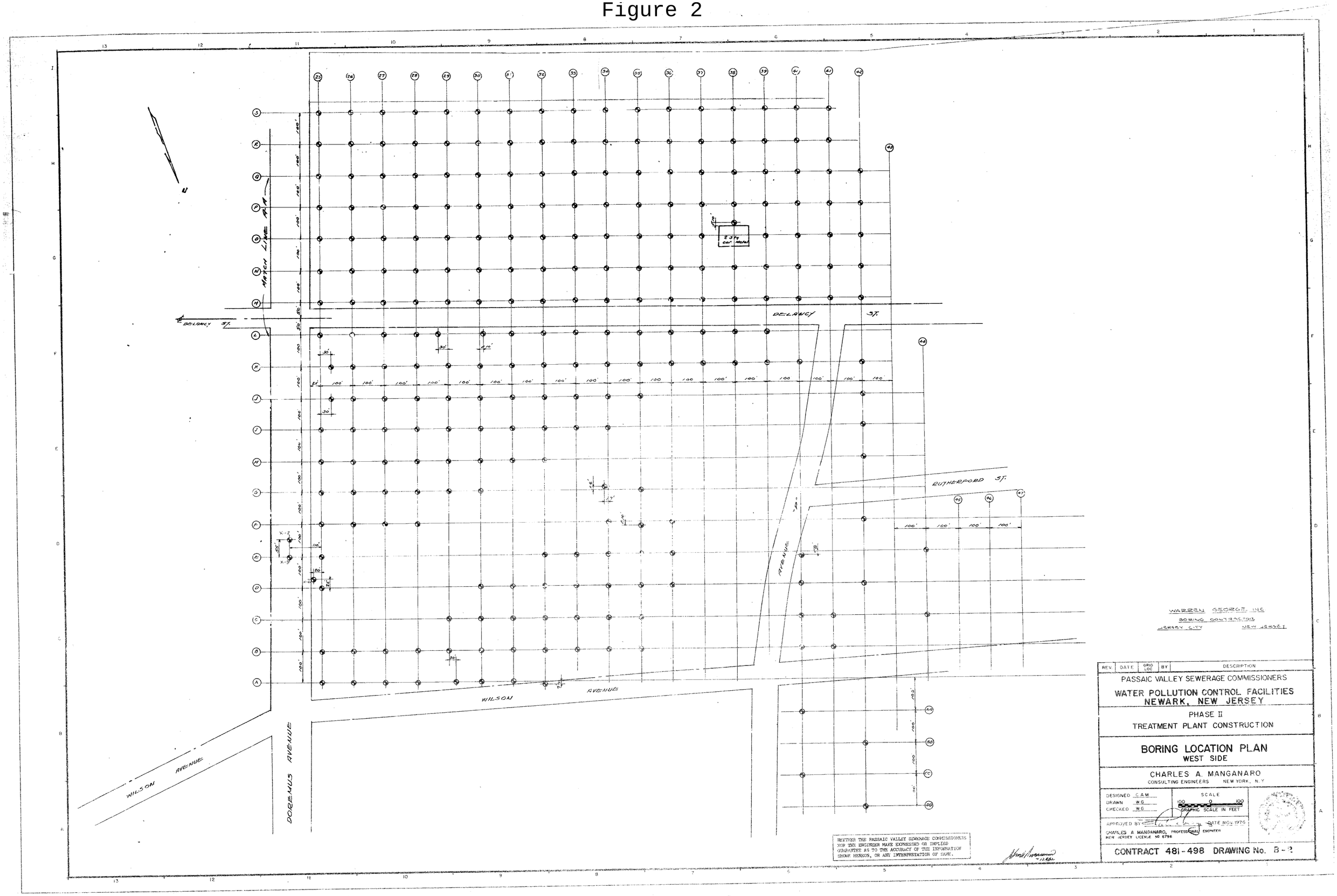
- Boring Location Plans (East Side)
- Boring Location Plans (West Side)
- Boring Logs
- Boring Location Plans and Boring Logs
- Boring Location Plan
- Boring Logs (Soil Profiles)
- Boring Logs Location Maps

Figure 1



NEWARK BAY
WILSON AVENUE
DOBEMUS AVENUE
DELANCY ST.
MATCH LINE A-A
Prop. Line
CHLORINATION BUILDING
BRICKFACE OF CHLORINATION BUILDING
Surf. El.
Blows per ft. on Casing
Classification of Materials
Sample No.
Blows per 6" on spoon
Sample Depth
Boring Depth
LEGEND
1. 300 lb hammer with 24" drop used to drive 2½" ϕ casing
2. 140 lb hammer with 30" drop used to drive 2" ϕ spoon
3. C.R. indicates core recovery of rock drilling
4. Driller: E. Fritsch, E. Van Blahn, H. Pinkeldie, Wm. Zubrowski, H. Reid, J. Powers, K. Davis, R. Burke, M. Dobszycki, W. Frankowich, J. Jameson, T. Sobolewski, C. Attanasio, R. Steinger, H. Chandler
Helper: B. Kleber, W. Spellman, E. Ciulko, C. Hartley, J. Rickey, F. Mead, G. Brown, A. Swire, J. Gorabrandt, T. Wakewski, R. Mason, T. Sobolewski, M. Lupashuniski, G. Greenwalt, R. Frederico
5. Elevations interpolated from Topo Maps prepared by Emilius & Assoc. L.S. N.J.
WARREN GEORGE INC.
BORING CONTRACTOR
JERSEY CITY NEW JERSEY
REV. DATE GRID LOC BY DESCRIPTION
PASSAIC VALLEY SEWERAGE COMMISSIONERS
WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY
PHASE II
TREATMENT PLANT CONSTRUCTION
BORING LOCATION PLAN
EAST SIDE
CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.
DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.
SCALE
100 0 100
GRAPHIC SCALE IN FEET
APPROVED BY
DATE NOV 1978
CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No 6796
CONTRACT 481-498 DRAWING No. B-1
NEITHER THE PASSAIC VALLEY SEWERAGE COMMISSIONERS NOR THE ENGINEER MAKE EXPRESSED OR IMPLIED GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREON, OR ANY INTERPRETATION OF SAME.

Figure 2


MATCH LINE A-A
DELANEY ST.
DELANEY ST.
RUTHERFORD ST.
WILSON AVENUE
WILSON AVENUE
DORENUS AVENUE
RIVER AVENUE
E 34th CAT HOUSE
WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY
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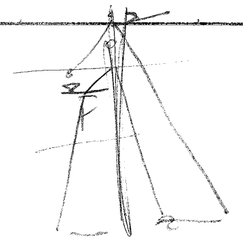
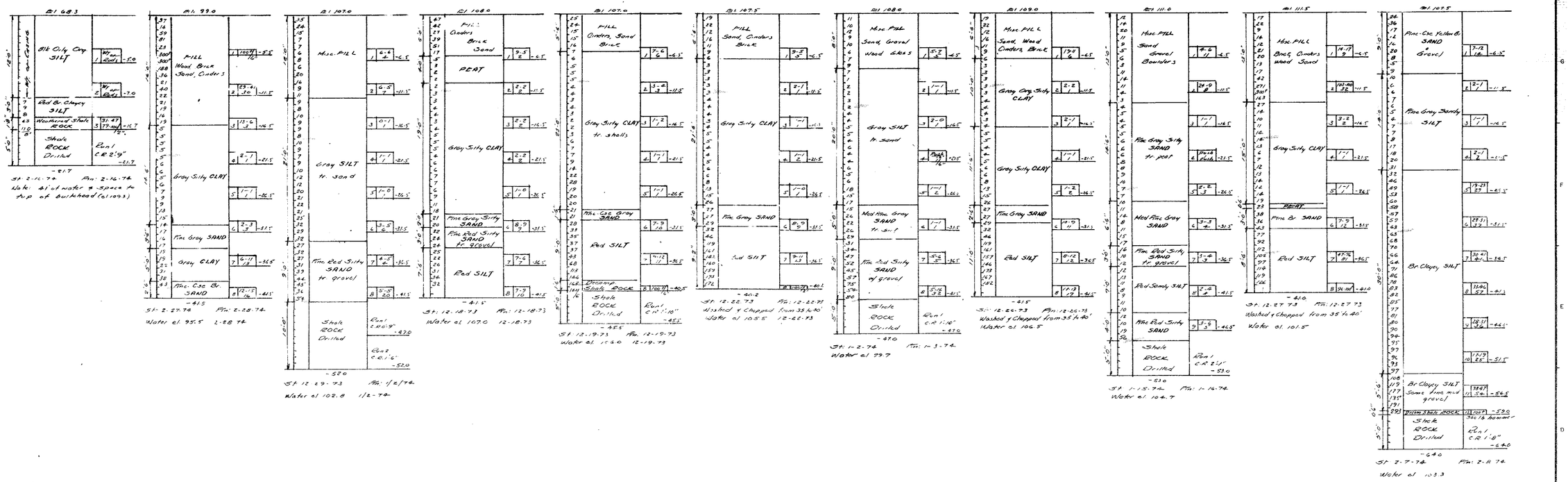
REV. DATE GRID LOC BY DESCRIPTION
PASSAIC VALLEY SEWERAGE COMMISSIONERS
WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY
PHASE II
TREATMENT PLANT CONSTRUCTION
BORING LOCATION PLAN
WEST SIDE
CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.
DESIGNED CAM
DRAWN WG
CHECKED WG
SCALE
100 0 100
GRAPHIC SCALE IN FEET
APPROVED BY
DATE NOV. 1976
CHARLES A MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6796
CONTRACT 481-498 DRAWING No. B-2

Figure 3.1





WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

REV	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II

TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE
NO SCALE

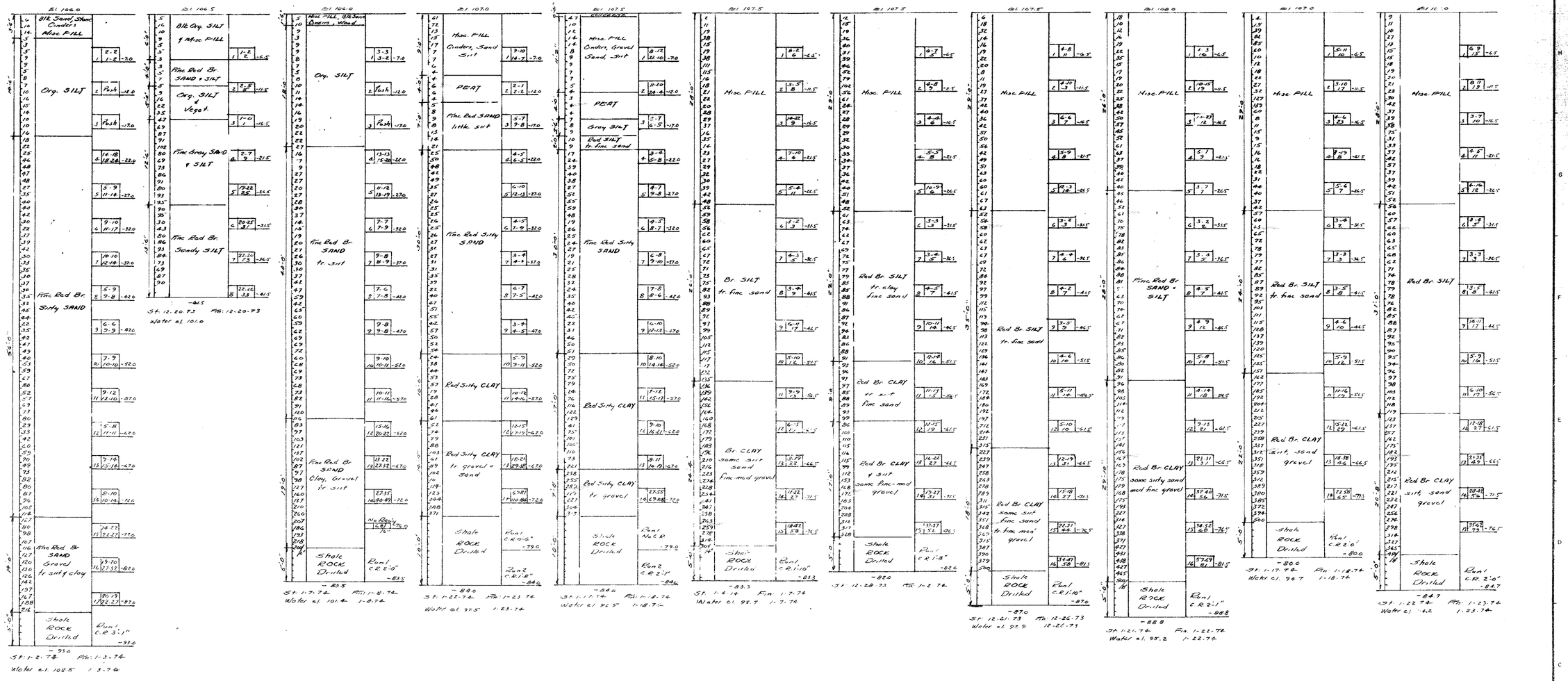
APPROVED BY _____ DATE NOV. 1976

CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
N.J.W. JERSEY LICENSE NO 6786

CONTRACT 481-498 DRAWING No. B-3

NEITHER THE PASSAIC VALLEY SEWERAGE COMMISSIONERS NOR THE ENGINEER MAKE EXPRESSED OR IMPLIED GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREON, OR ANY INTERPRETATION OF SAME.

Figure 3.2



WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

REV.	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II
TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE
NO SCALE

APPROVED BY _____ DATE NOV. 1975

CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6756

CONTRACT 481-498 DRAWING No. B-4

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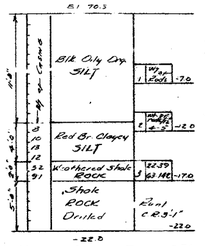
Figure 3.3

B-1



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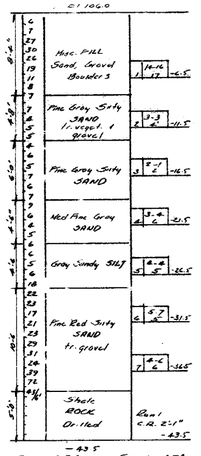

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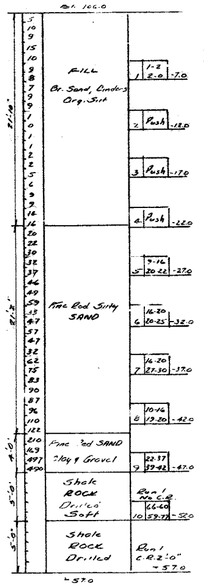

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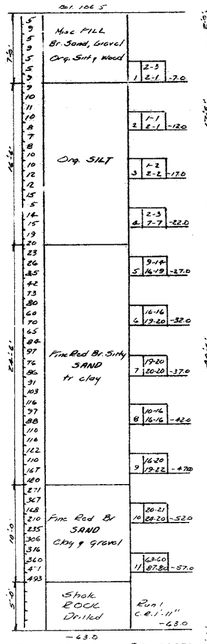

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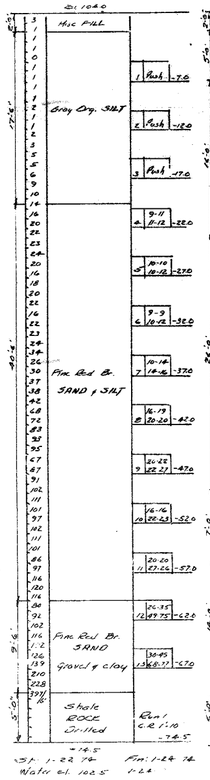

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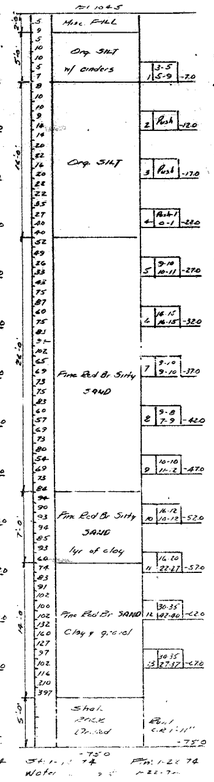

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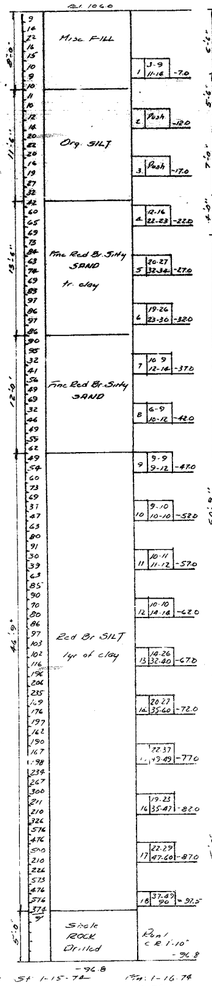

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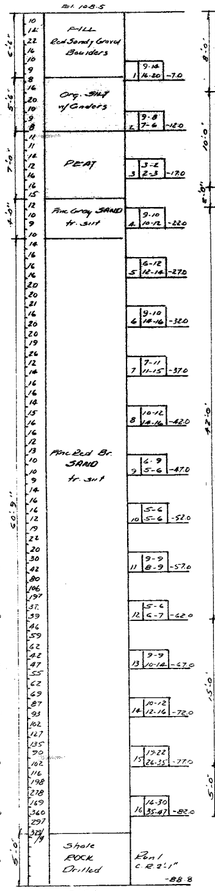

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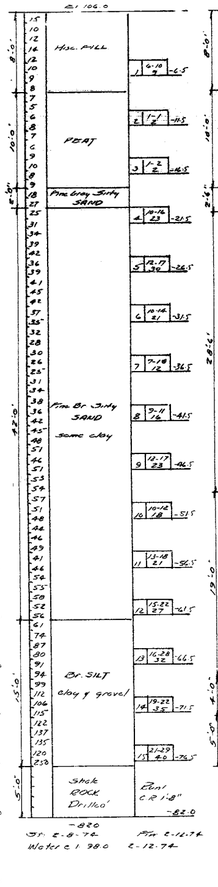

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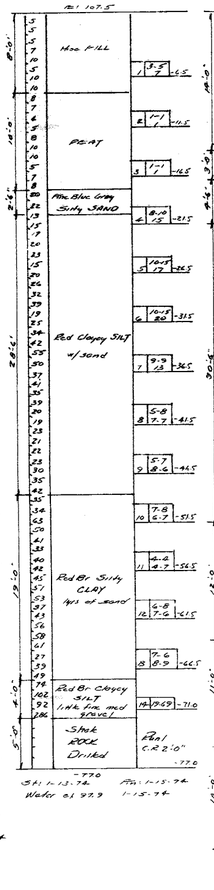

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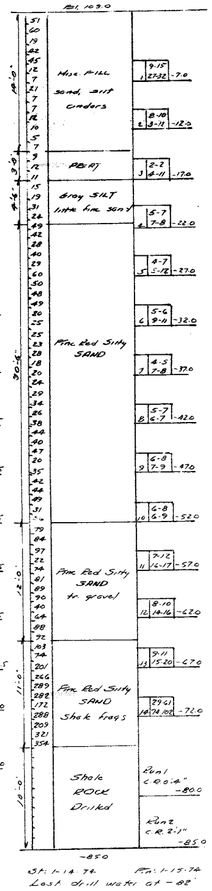

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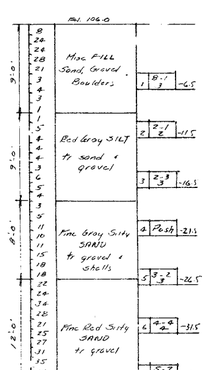

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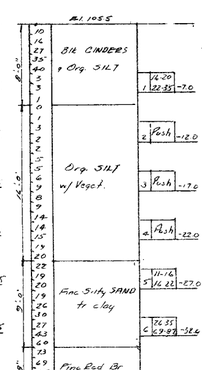

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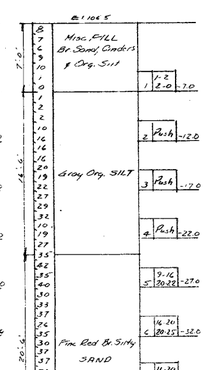

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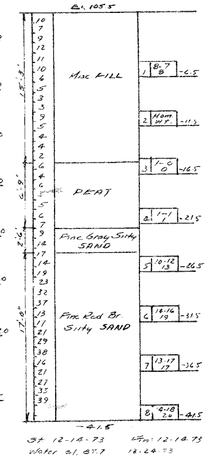

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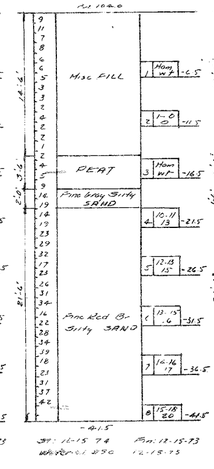

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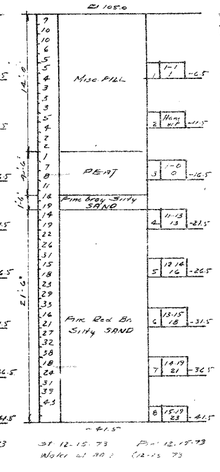

WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY, N.J.

REV	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II
TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE NO SCALE

APPROVED BY _____ DATE NOV 1976

CHARLES A MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6796

CONTRACT 481-498 DRAWING No. B-5

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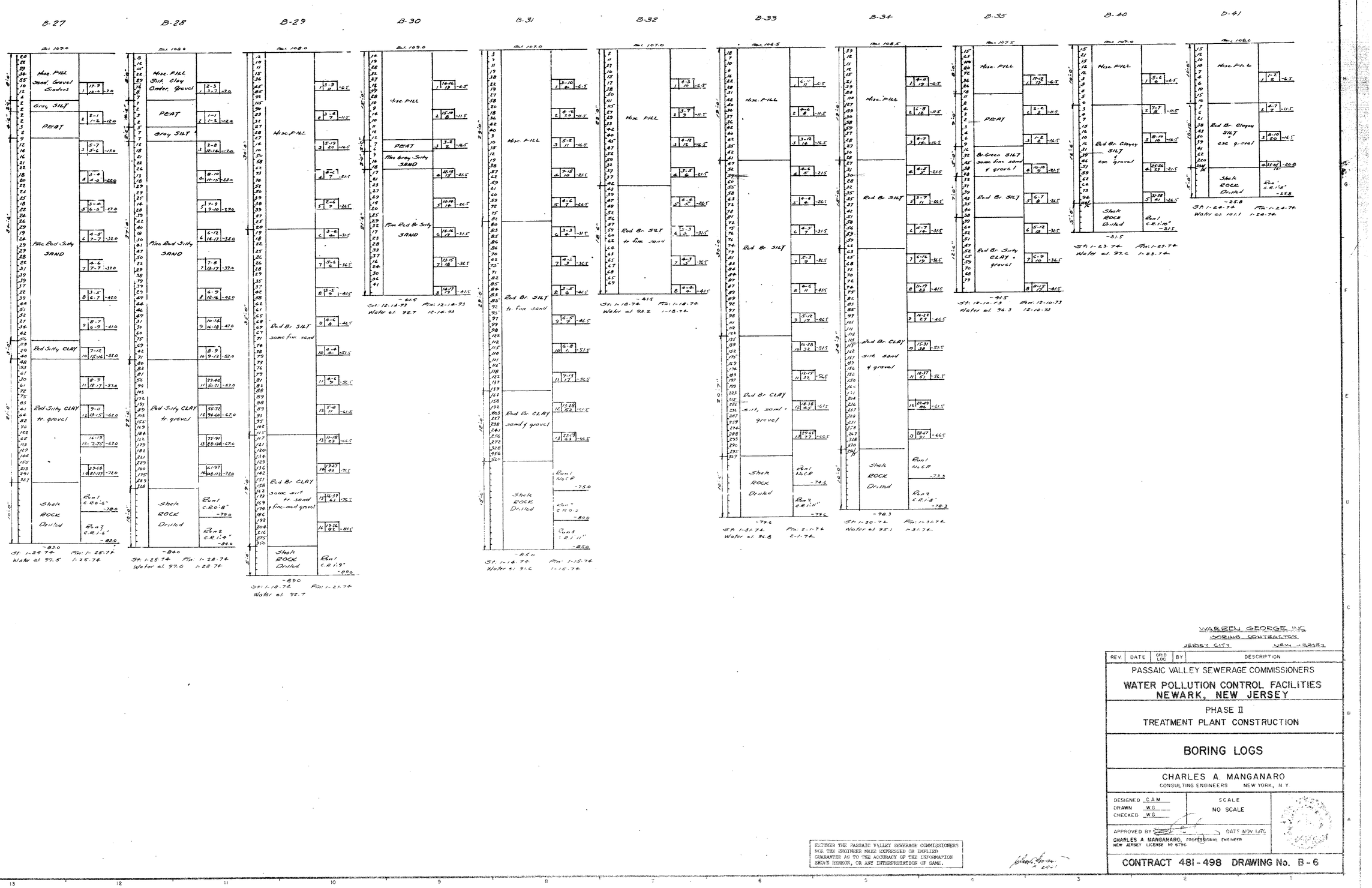
Figure 3.4



WARREN GEORGE, INC.
DRILLING CONTRACTOR
JERSEY CITY, NEW JERSEY

REV.	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II

TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE
NO SCALE

APPROVED BY _____ DATE NOV 1976
CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6796

CONTRACT 481-498 DRAWING No. B-6

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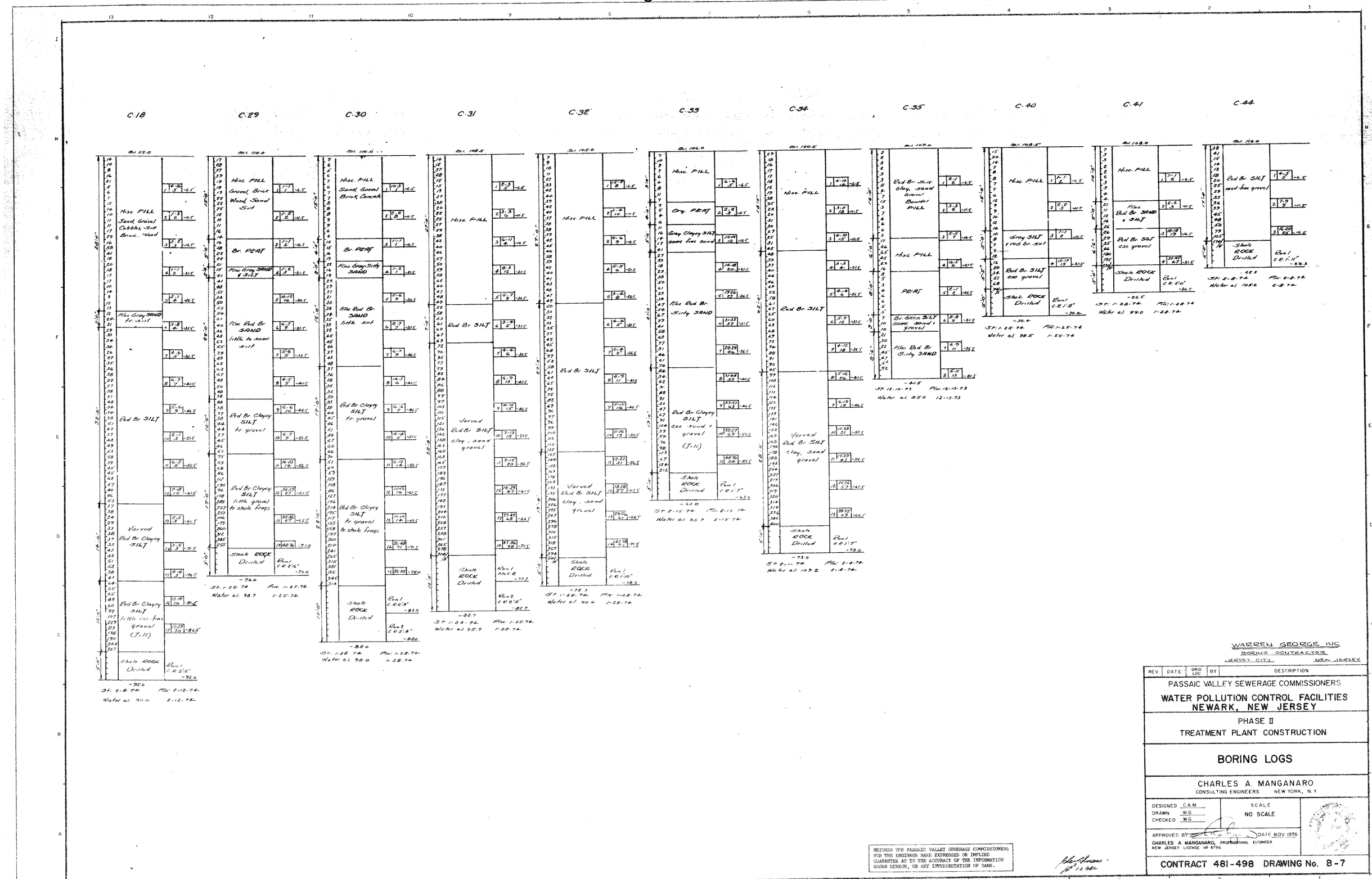
Figure 3.5



WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY, NEW JERSEY

REV.	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II
TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y

DESIGNED C.A.M.
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SCALE
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CHARLES A MANGANARO, PROFESSIONAL EGINEER
NEW JERSEY LICENSE NO 6796

CONTRACT 481-498 DRAWING No. B-7

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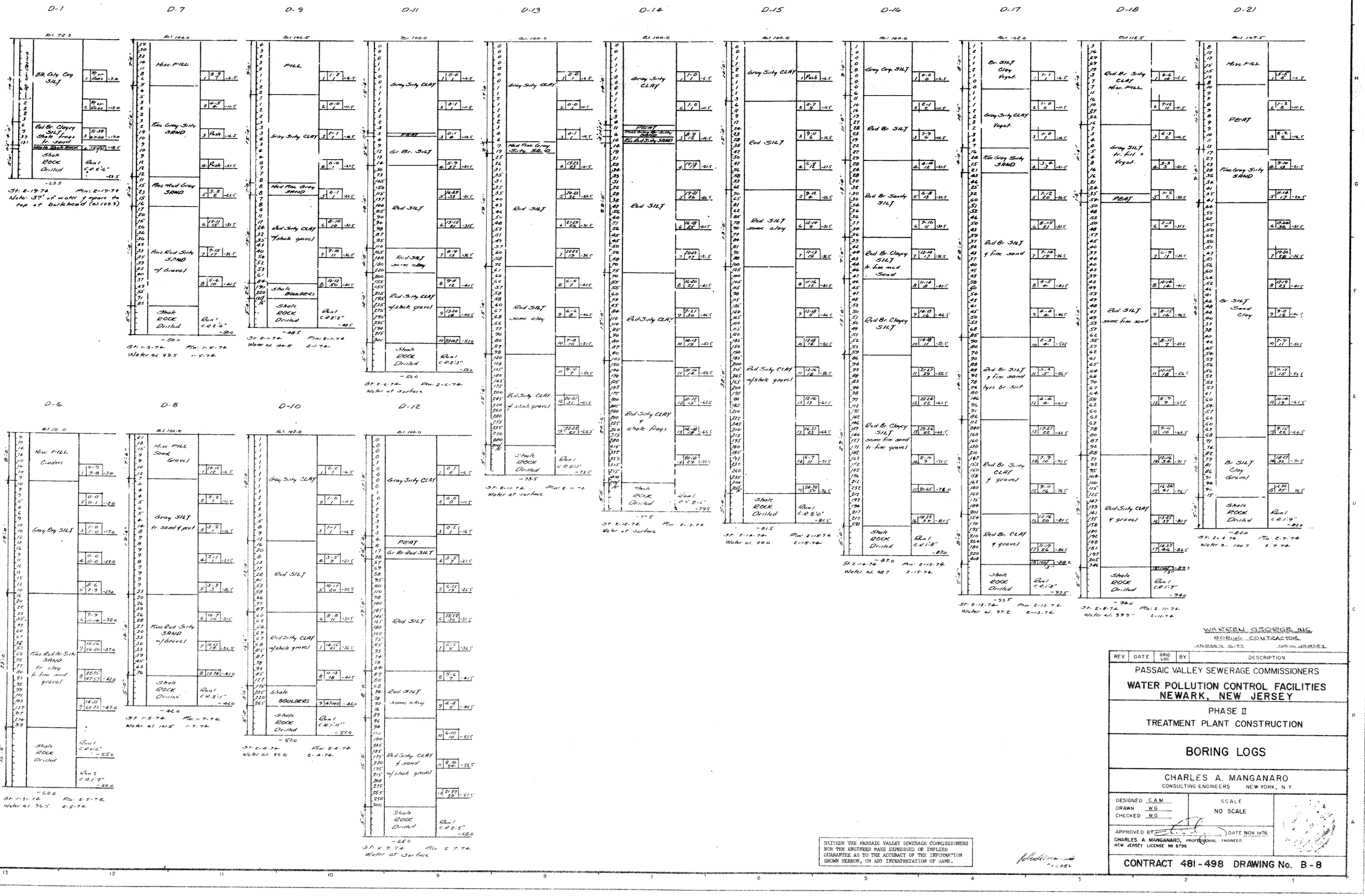
Figure 3.6



WARREN GEORGE INC.
BORING CONTRACTOR
JERSEY CITY, NEW JERSEY

REV	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II
TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
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SCALE
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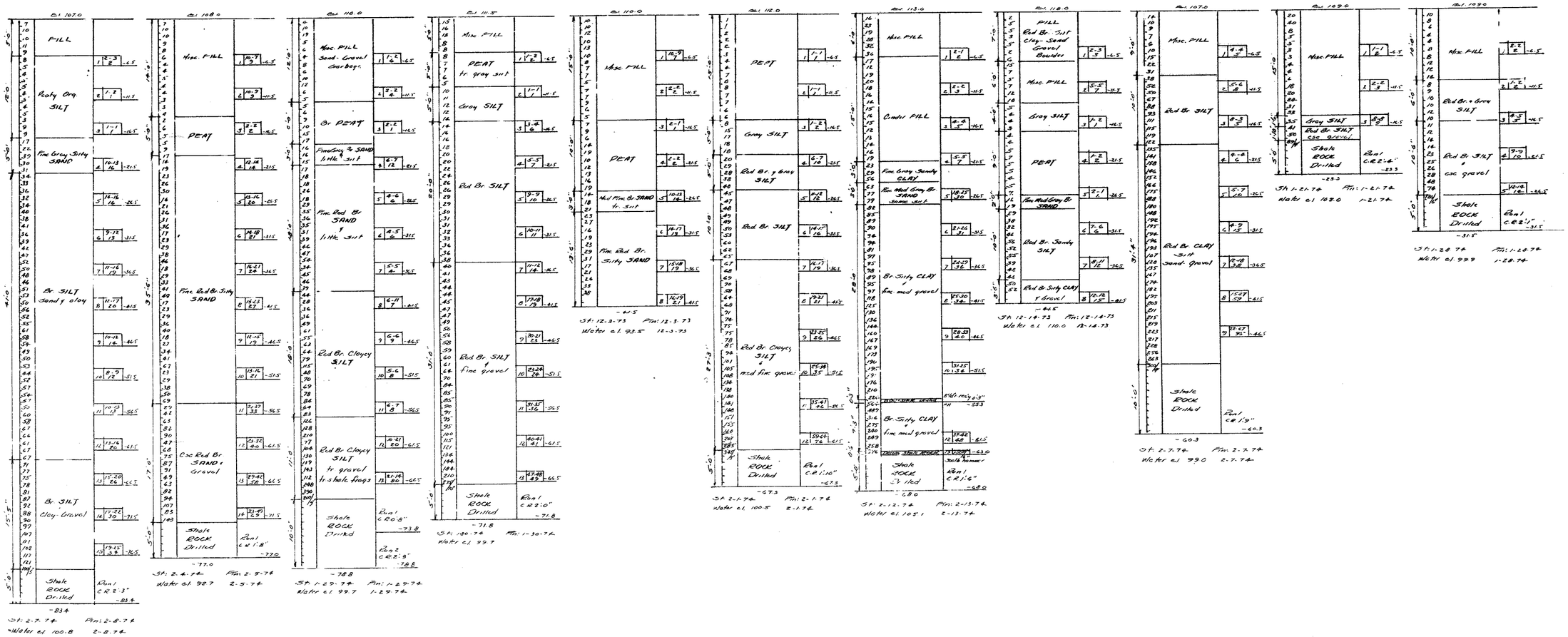
APPROVED BY _____ DATE NOV. 1976
CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6796

CONTRACT 481-498 DRAWING No. B-8

NEITHER THE PASSAIC VALLEY SEWERAGE COMMISSIONERS NOR THE ENGINEER MAKE EXPRESSED OR IMPLIED GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREON, OR ANY INTERPRETATION OF SAME.

Figure 3.7



WARREN GEORGE INC.
BORING CONTRACTOR
JERSEY CITY, NEW JERSEY

REV.	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II

TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE
NO SCALE

APPROVED BY _____ DATE NOV. 1976

CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6796

CONTRACT 481-496 DRAWING No. B-9

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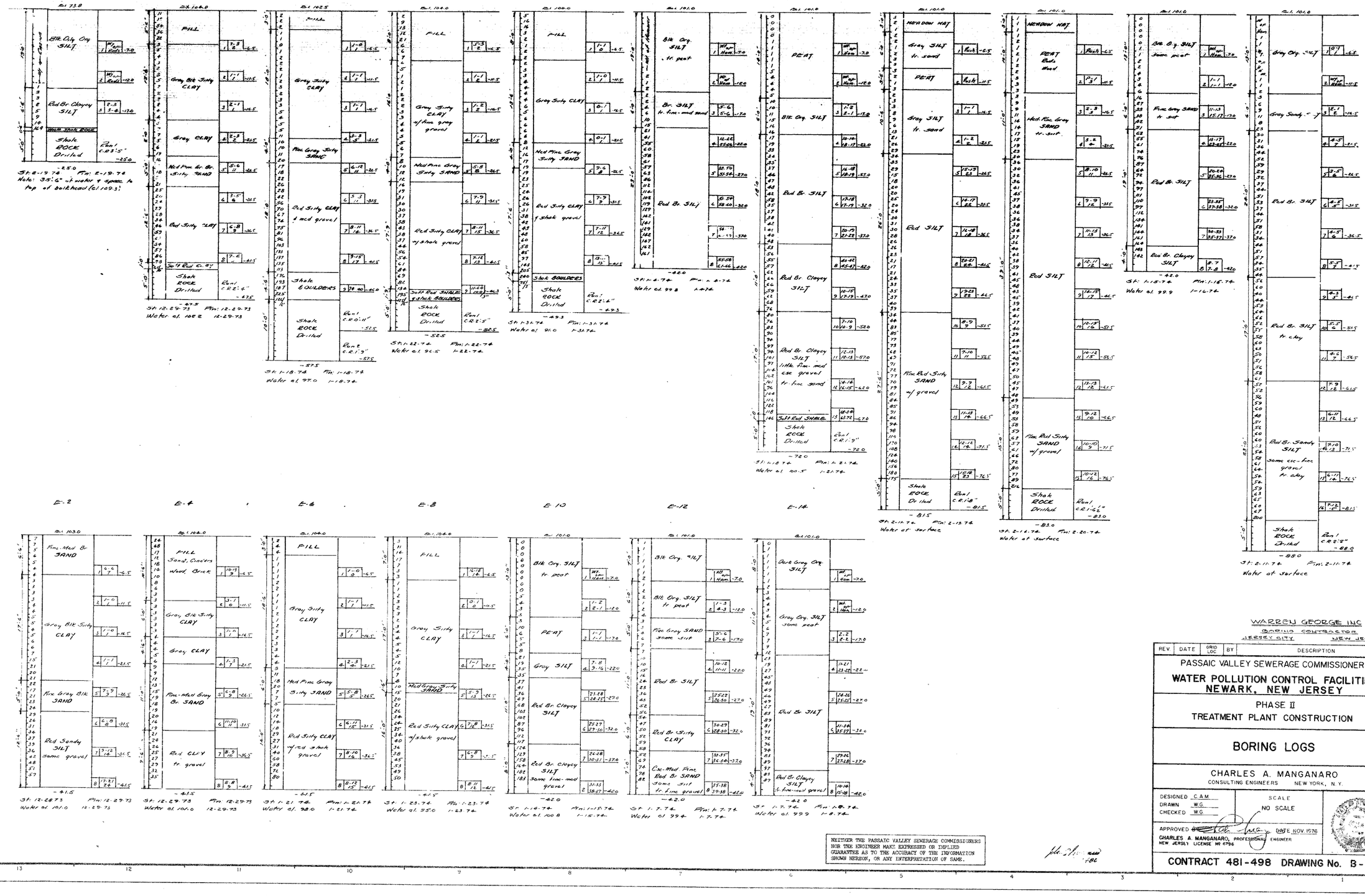
Figure 3.8



WARREN GEORGE INC
DRILLING CONTRACTOR
JERSEY CITY, NEW JERSEY

REV.	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES NEWARK, NEW JERSEY

PHASE II

TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE NO SCALE

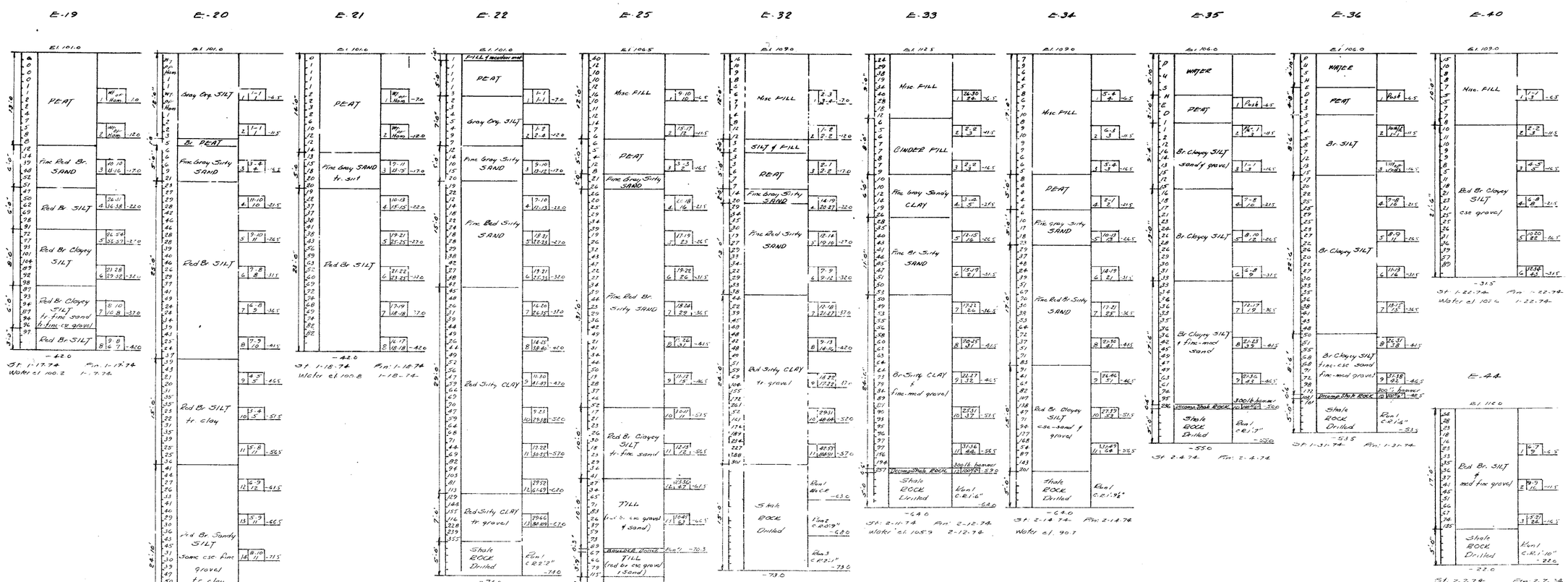
APPROVED DATE NOV 1976

CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 4796

NEITHER THE PASSAIC VALLEY SEWERAGE COMMISSIONERS NOR THE ENGINEER MAKE EXPRESSED OR IMPLIED GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREON, OR ANY INTERPRETATION OF SAME.

CONTRACT 481-498 DRAWING No. B-10

Figure 3.9



REV.	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II
TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE NO SCALE

APPROVED BY _____ DATE NOV. 1976

CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 6796

CONTRACT 481-498 DRAWING No. B-11

WARREN GEORGE INC.
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

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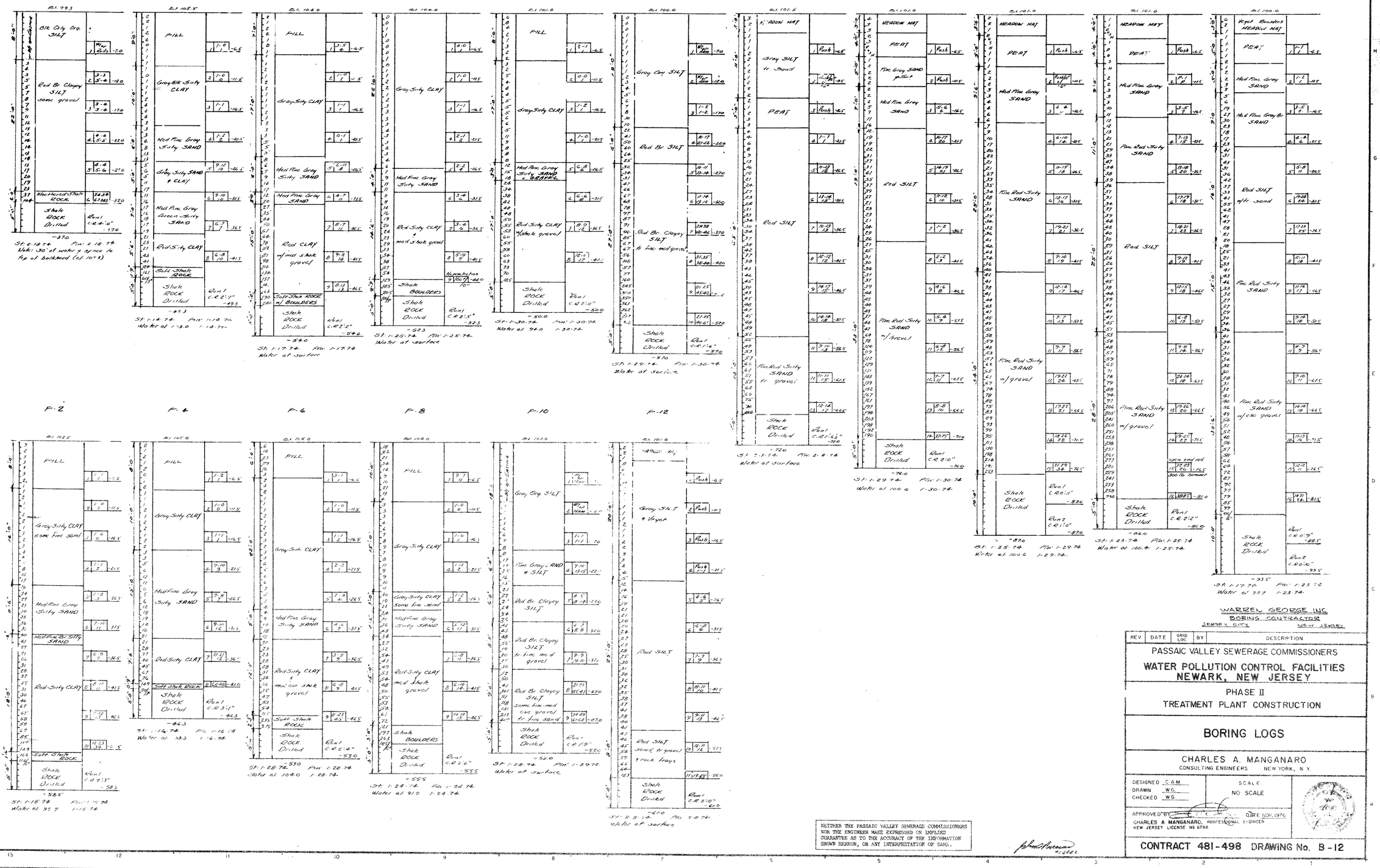
Figure 3.10



WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

REV	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II
TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE
NO SCALE

APPROVED BY _____ DATE NOV. 1970
CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6796

CONTRACT 481-498 DRAWING No. B-12

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Figure 3.11

F-18
F-19
F-20
F-21
F-22
F-25
F-26
F-27
F-28
F-34
F-35
F-36
F-42
WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY
REV. DATE GRID LOC BY DESCRIPTION
PASSAIC VALLEY SEWERAGE COMMISSIONERS
WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY
PHASE II
TREATMENT PLANT CONSTRUCTION
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CHARLES A. MANGANARO
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DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.
SCALE
NO SCALE
APPROVED BY
DATE NOV. 1976
CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6796
CONTRACT 481-498 DRAWING No. B-13
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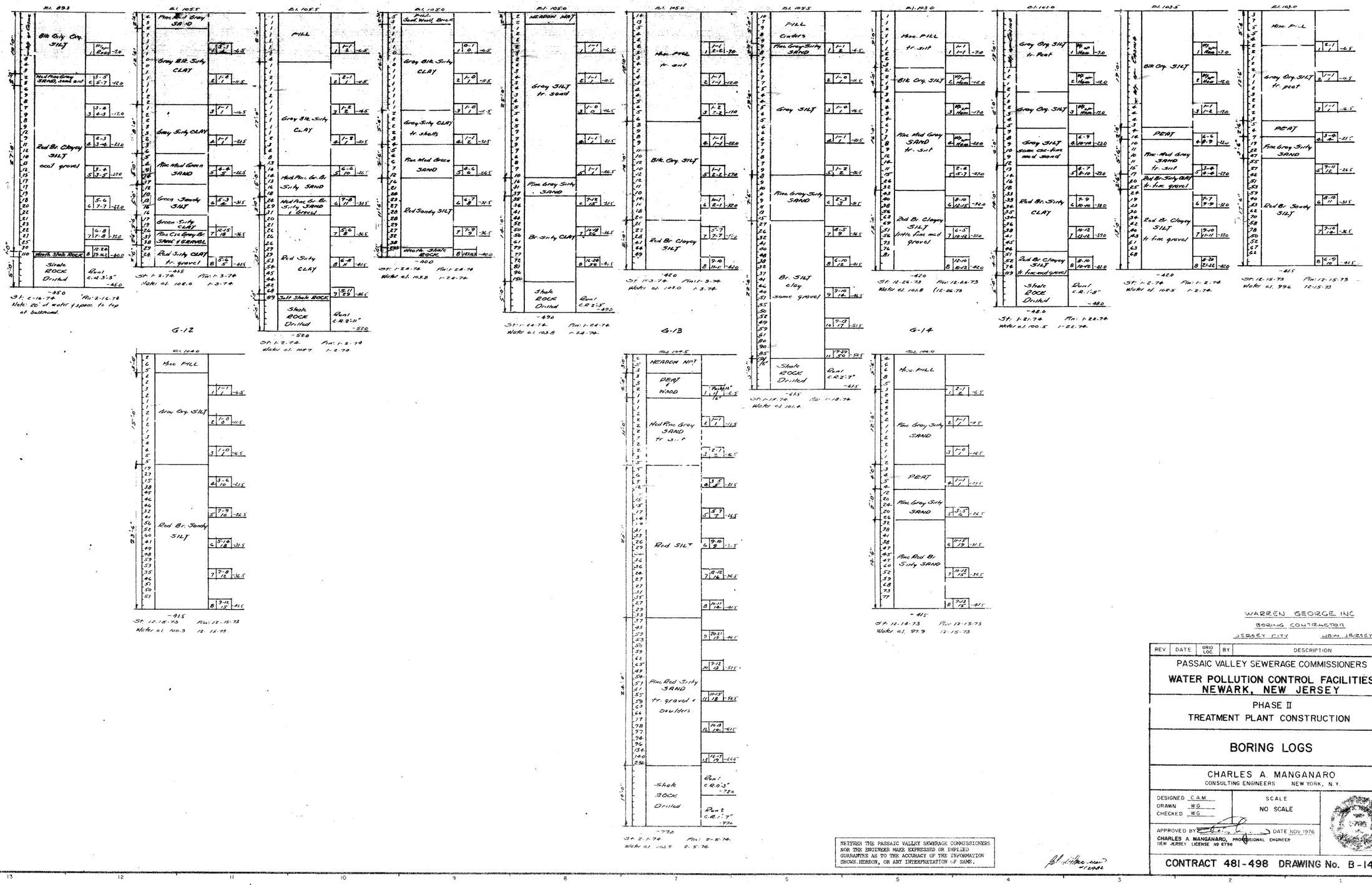
Figure 3.12



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WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

REV.	DATE	GRID LOC.	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES NEWARK, NEW JERSEY

PHASE II

TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

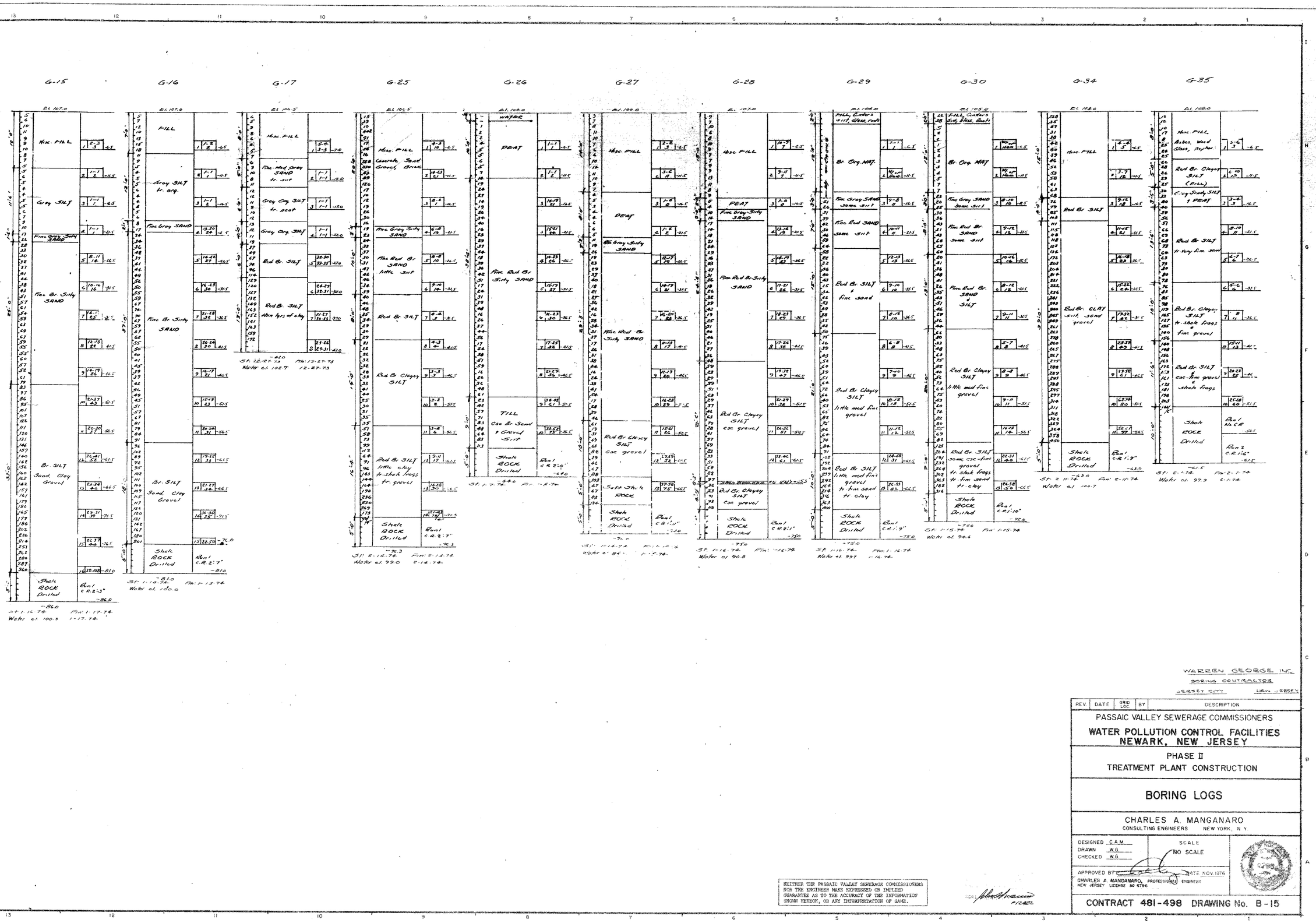
SCALE NO SCALE

APPROVED BY _____ DATE NOV. 1976

CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6798

CONTRACT 481-498 DRAWING No. B-14

Figure 3.13



WARREN GEORGE, INC.
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

REV.	DATE	GRID LOC	BY	DESCRIPTION

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WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY

PHASE II
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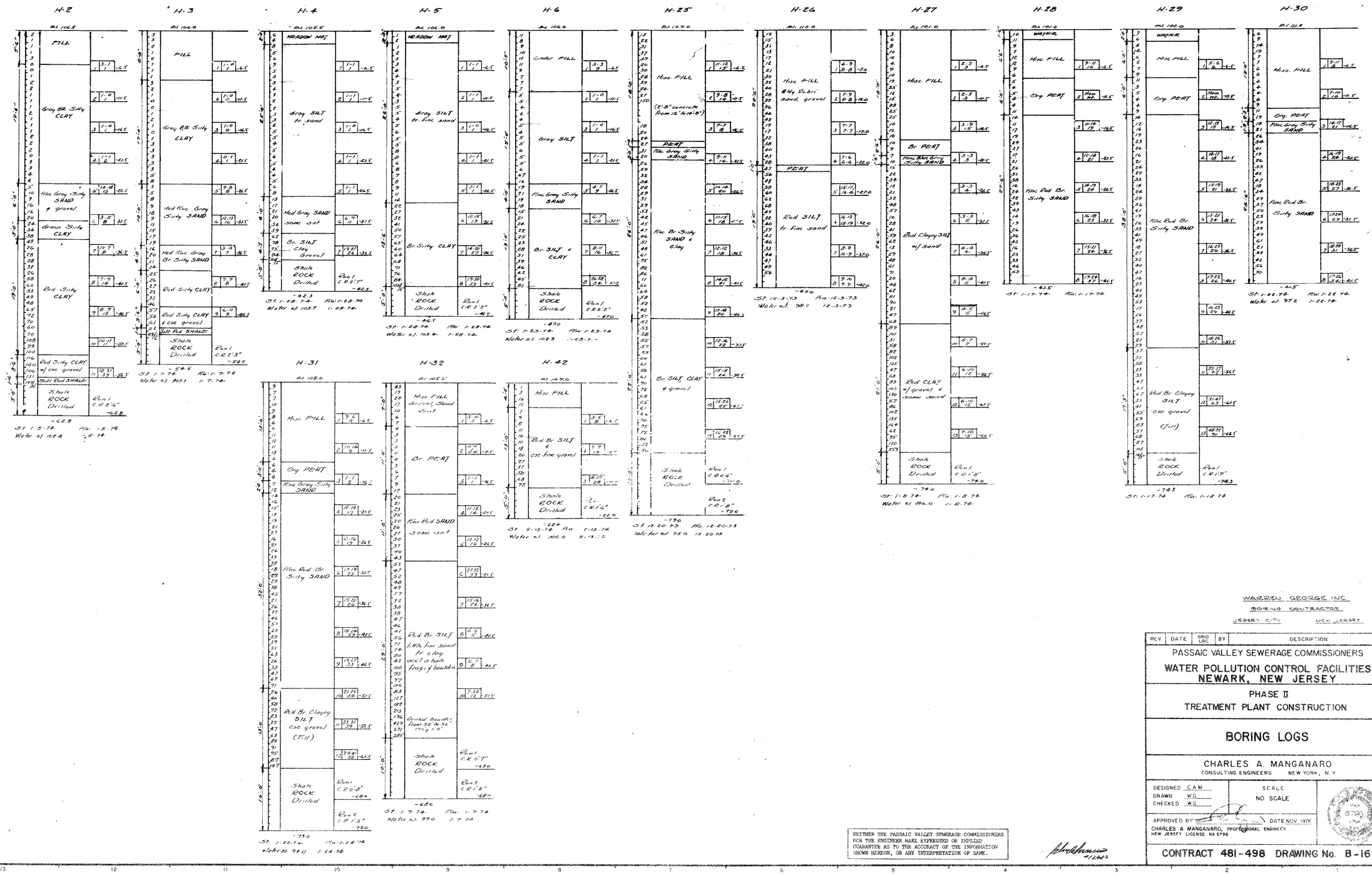
Figure 3.14



WARREN GEORGE INC.
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JERSEY CITY NEW JERSEY

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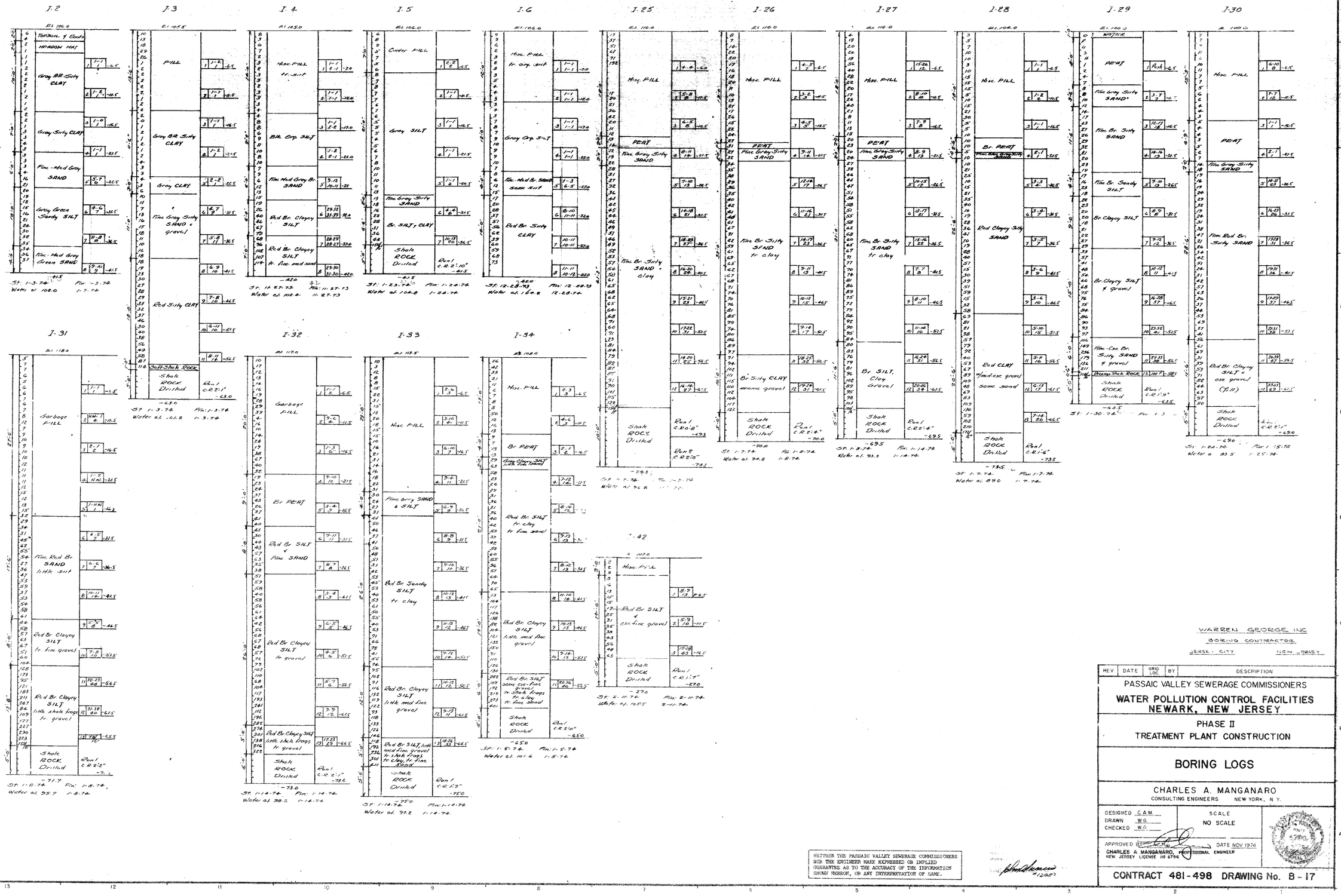
Figure 3.15



WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

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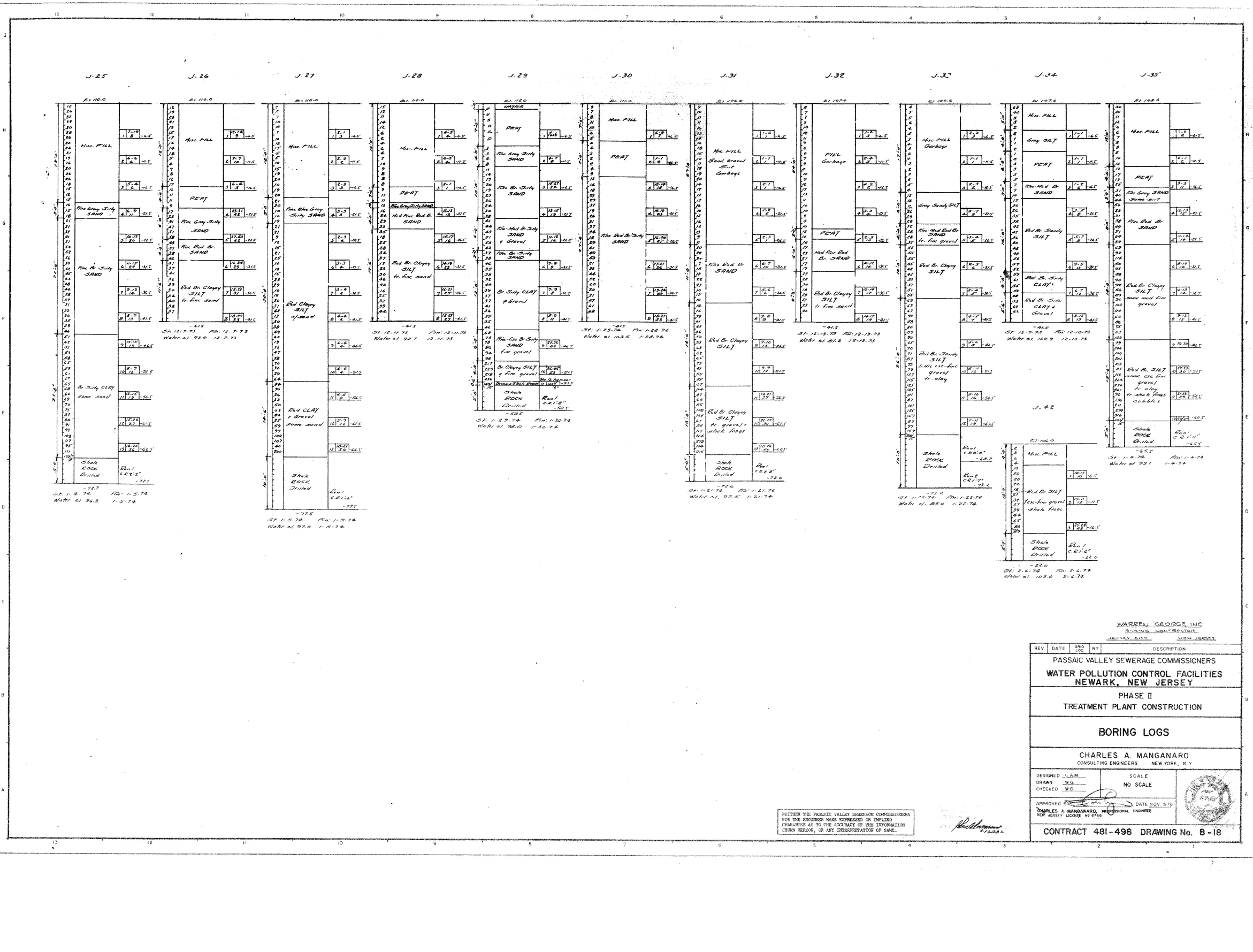
Figure 3.16



WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

REV.	DATE	GRID LOC	BY	DESCRIPTION

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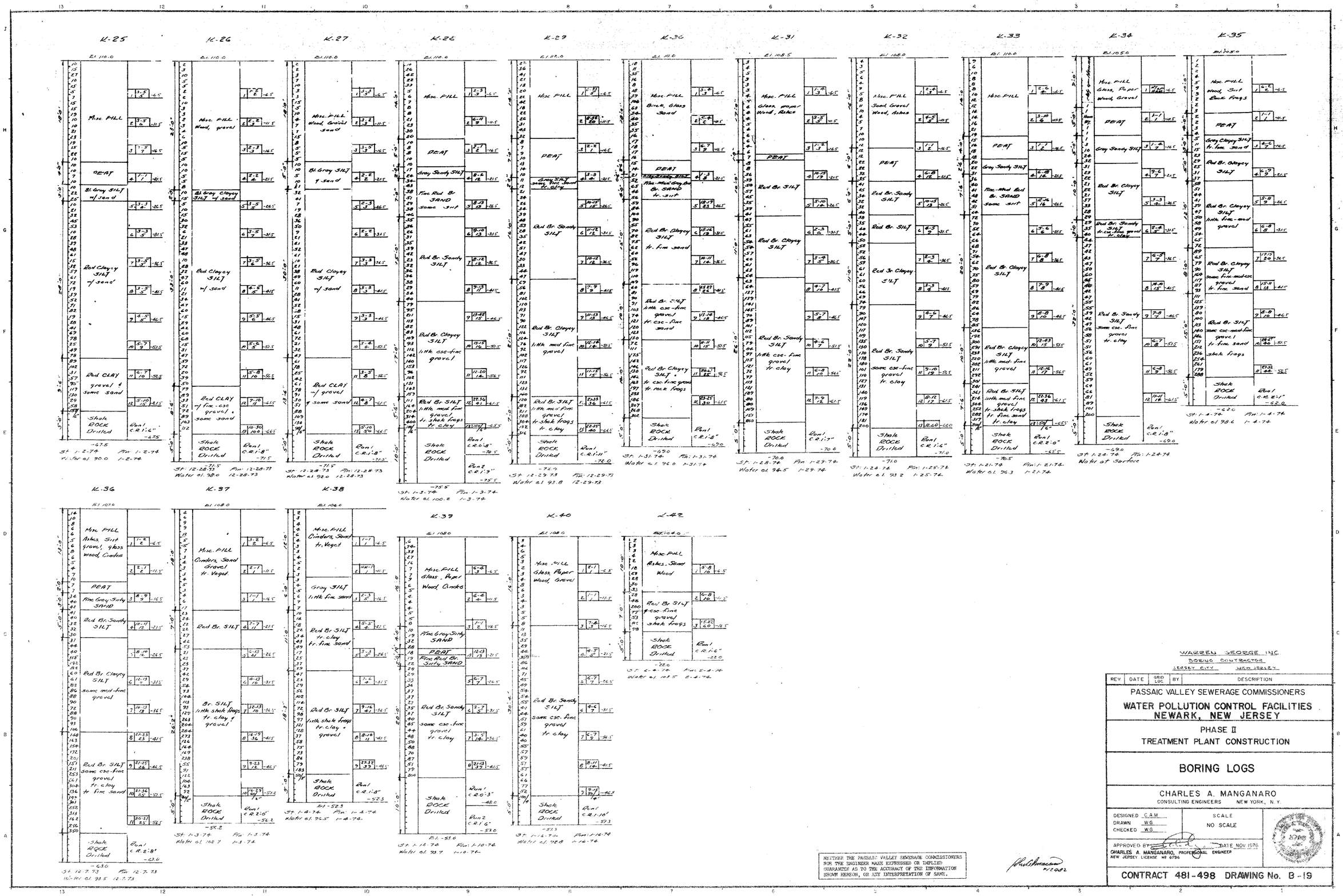
CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6766

CONTRACT 481-498 DRAWING No. B-18

NEITHER THE PASSAIC VALLEY SEWERAGE COMMISSIONERS NOR THE ENGINEER MAKE EXPRESSED OR IMPLIED GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREON, OR ANY INTERPRETATION OF SAME.

Figure 3.17



WARREN GEORGE INC
BORING CONTRACTORS
JERSEY CITY NEW JERSEY

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DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

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NEW JERSEY LICENSE NO 6786

CONTRACT 481-498 DRAWING No. B-19

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Figure 3.18

L-25

El. 110.0

Misc. FILL

CONCRETE

Fine Blue Gray Silty SAND & some Fill

Red Clayey SILT w/ Sand

Red CLAY w/ gravel & some sand

Shale ROCK Drilled

Run 1 C.R. 1'6"

-72.0

St. 1-3-74 Fin: 1-3-74
Water el. 100.0 1-3-74

L-26

El. 110.1

Misc. FILL

PEAT

Fine Gray Silty SAND

Fine Red Br. SAND

Red Br. Clayey SILT fr. fine Sand

-41.5

St. 12-10-73 Fin: 12-10-73
Water el. 93.0 12-10-73

L-27

El. 111.5

Misc. FILL Wood, gravel metal

PEAT

Blue Gray Clayey SILT w/fine Sand

Red Clayey SILT w/ fine Sand

Red CLAY w/ fine ex gravel & some Sand

Shale ROCK Drilled

Run 1 C.R. 1'8"

-69.0

St. 12-27-73 Fin: 12-27-73
Water el. 101.5 12-27-73

L-28

El. 111.5

Misc. FILL

PEAT

Fine Gray Silty SAND

Fine Red Br. SAND

Red Br. Clayey SILT fr. fine Sand

-41.5

St. 12-10-73 Fin: 12-10-73
Water el. 94.7 12-10-73

L-29

El. 111.0

Misc. FILL

PEAT

Fine Gray SAND Some Silt

Red Br. Sandy SILT

Red Br. Clayey SILT little med fine gravel

Red Br. SILT little med Fine gravel, fr. clay fr. Shale Bags

Shale ROCK Drilled

Run 1 C.R. 7'3"

-69.3

St. 12-27-73 Fin: 12-27-73
Water el. 98.3 12-27-73

L-30

El. 111.0

Misc. FILL

PEAT

Med Gray SAND

Red Br. Sandy SILT fr. clay & gravel

-41.5

St. 12-1-73 Fin: 12-2-73
Water el. 104.4 12-2-73

L-31

El. 110.5

Misc. FILL Brick, Wood Sand, Gravel Concrete

PEAT

Gray SILT and fine Sand Layers

Red Br. SILT fr. fine Sand

Red Br. Clayey SILT fr. fine gravel

Red Br. Clayey SILT little med fine gravel

Red Br. SILT Some Shale Bags little med fine gravel fr. clay & sand

Shale ROCK Drilled

Run 1 C.R. 2'0"

-70.0

St. 1-5-74 Fin: 1-5-74
Water el. 98.2 1-5-74

L-32

El. 110.0

Misc. FILL

PEAT

Fine Med Gray SAND

Red Br. SILT clay fr. sand & gravel

-41.5

St. 12-1-73 Fin: 12-1-73
Water el. 103.7 12-1-73

L-33

El. 109.0

Misc. FILL

PEAT little fine sand fr. silt fr. Dill

Fine Gray Silty SAND fr. clay

Red Br. SILT & fine sand

Red Br. Clayey SILT fr. fine sand

Red Br. Clayey SILT little med fine gravel fr. fine sand

Red Br. Sandy SILT Some Shale bags little med fine gravel, fr. clay

Shale ROCK Drilled

Run 1 C.R. 2'5"

-69.3

St. 12-14-73 Fin: 12-14-73
Water el. 98.7 12-14-73

L-34

El. 109.0

Misc. FILL

Gray SILT

PEAT

Gray Sandy SILT

Fine Red Br. SAND & gravel

Red Br. Silty CLAY & gravel

-41.5

St. 11-30-73 Fin: 11-30-73
Water el. 104.6 11-30-73

L-35

El. 107.2

FILL Lit. silt, sand wood

PEAT

Fine Gray SAND

Shale ROCK Drilled

Run 1 C.R. 1'7"

-64.0

St. 11-30-73 Fin: 12-1-73
Water el. 93.2 12-1-73

L-36

El. 119.0

Misc. FILL

Gray SILT fr. fine Sand

Red Br. Clayey SILT

Red Br. Silty CLAY & Gravel

-41.5

St. 11-29-73 Fin: 11-30-73
Water el. 101.7 11-30-73

L-37

El. 109.0

Misc. FILL

Br. SILT & fine Sand

Red CLAY SILT fr. fine Sand some gravel

Broken Shale ROCK

Shale ROCK Drilled

Run 1 C.R. 1'6"

-66.0

St. 12-17-73 Fin: 12-17-73
Water el. 95.0 12-17-73

L-38

El. 110.0

Misc. FILL

PEAT

Gray SILT

Red Br. Sandy SILT

Red Br. Silty CLAY fr. gravel

-41.5

St. 12-3-73 Fin: 12-3-73
Water el. 105.8 12-3-73

L-39

El. 108.0

Misc. FILL sand, gravel wood, bricks

PEAT

Fine Red Br. Silty SAND

Red Br. Sandy SILT some Fine gravel fr. clay

Shale ROCK Drilled

-50.8

St. 1-14-74 Fin: 1-15-74
Water el. 93.2 1-15-74

WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY

REV.	DATE	GRID LOC	BY	DESCRIPTION

PASSAIC VALLEY SEWERAGE COMMISSIONERS

WATER POLLUTION CONTROL FACILITIES NEWARK, NEW JERSEY

PHASE II

TREATMENT PLANT CONSTRUCTION

BORING LOGS

CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.

DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.

SCALE NO SCALE

APPROVED BY _____ DATE NOV 1978

CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO 6756

CONTRACT 481-498 DRAWING No. B-20

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Figure 3.19

M-25
M-26
M-27
M-28
M-29
M-30
M-31
M-32
M-33
M-34
M-35
M-36
M-37
M-38
M-39
M-40
M-41
M-42
WARREN GEORGE INC
BORING CONTRACTOR
JERSEY CITY NEW JERSEY
REV. DATE GRID LOC BY DESCRIPTION
PASSAIC VALLEY SEWERAGE COMMISSIONERS
WATER POLLUTION CONTROL FACILITIES
NEWARK, NEW JERSEY
PHASE II
TREATMENT PLANT CONSTRUCTION
BORING LOGS
CHARLES A. MANGANARO
CONSULTING ENGINEERS NEW YORK, N.Y.
DESIGNED C.A.M.
DRAWN W.G.
CHECKED W.G.
SCALE
NO SCALE
APPROVED BY DATE NOV. 1976
CHARLES A. MANGANARO, PROFESSIONAL ENGINEER
NEW JERSEY LICENSE № 6796
CONTRACT 481-498 DRAWING No. B-21
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Figure 3.20

N-25

El. 113.0

Misc. FILL
Silt, Brick, Tin Ashes, Road Wood Concrete

PEAT

Red Br. SILT
tr. fine sand

Red Br. Clayey SILT
little fine-med gravel
tr. fine sand

Red Br. SILT
little csc-fine gravel
little fine sand

Shale ROCK Drilled
Run 1 C.R. 3'5"

-78.0

St: 11-21-73 Fin: 11-21-73
Water el. 98.9 11-21-73

N-26

El. 115.5

Misc. FILL
Sand, Gravel, Wood, Veget. brick, Cinder

PEAT

Fine gray SAND some silt

Fine Red Br. Sandy SILT

-41.5

St: 11-26-73 Fin: 11-26-73
Water el. 103.2 11-26-73

N-27

El. 113.5

Misc. FILL
Wood, Sand Brick

Gray SILT tr. Veget.

PEAT

Red Br. Clayey SILT

Red Br. Clayey SILT
little fine-csc gravel

Red Br. Clayey SILT
some fine-csc gravel

Shale ROCK Drilled
Run 1 C.R. 2'6"

-76.5

St: 12-18-73 Fin: 12-18-73
Water el. 103.2 12-18-73

N-28

El. 115.5

Misc. FILL

PEAT

Fine gray Sandy SILT

Red Br. Sandy SILT

-41.5

St: 11-26-73 Fin: 11-27-73
Water el. 103.6 11-27-73

N-29

El. 114.0

Misc. FILL
Wood, Glass Asphalt

PEAT

Fine Gray Silty SAND

Red Br. Clayey SILT

Red Br. Clayey SILT
little csc-fine gravel
tr rock frags

Shale ROCK Drilled
Run 1, C.R. 2"

-71.6

St: 12-13-73 Fin: 12-13-73
Water el. 102.7 12-13-73

N-30

El. 112.0

Misc FILL

Med Fine Gray SAND

PEAT

Gray SILT some fine sand

Red Br. Sandy SILT

-43

St: 11-27-73 Fin: 11-27-73
Water el. 103.7 11-27-73

N-31

El. 112.5

Misc. FILL
Wood Sand Asphalt, Rags

Fine Gray Silty SAND

PEAT
Gray SILT
tr. fine sand

Red Br. Clayey SILT

Red Br. Clayey SILT
tr. rock frag & gravel

Red Br. Clayey SILT
some csc-fine gravel
rock frags

Shale ROCK Drilled
Run 1 C.R. 2'6"

-74.6

St: 12-20-73 Fin: 12-20-73
Water el. 100.2 12-20-73

N-32

El. 112.5

Misc. FILL

Med Gray-Green SAND

PEAT

Gray SILT some sand

Fine Br. SAND

Red Br. Sandy SILT

-41.5

St: 11-27-73 Fin: 11-28-73
Water el. 108.3 11-28-73

N-33

El. 112.5

Misc. FILL
Wood, Brick & Glass

PEAT

Gray Sandy SILT

Red Br. Clayey SILT
tr. fine-csc sand & fine-csc gravel

Red Br. SILT
some fine sand

Red Br. Clayey SILT
tr. fine-csc gravel

Red Br. Silty CLAY
little csc-fine gravel

Red Br. SILT
little csc-fine gravel

Shale ROCK Drilled

-76.5

St: 11-28-73 Fin: 11-28-73
Water el. 99.8 11-28-73

N-34

El. 112.0

Misc. FILL

Med Gray SAND

Med Br. SAND

PEAT

Gray SILT tr. sand

Med Gray SAND

Red Br. Sandy SILT

Red Br. Silty CLAY
some gravel

Red Br. Silty CLAY

-56.5

St: 11-28-73 Fin: 11-29-73
Water el. 108.3 11-29-73

N-35

El. 107.5

Misc. FILL

Gray Sandy SILT
little wood & rock

Red Br. SILT
tr. fine sand

Red Br. SILT
some csc-fine gravel

Red Br. SILT
fine-csc gravel
Rock frags

Shale ROCK Drilled
Run 1 C.R. 0.6"
Run 2 C.R. 2'6"

-71.3

St: 1-2-74 Fin: 1-2-74
Water el. 99.5 1-2-74

N-36

El. 105.0

Misc. FILL

Med Gray SAND

PEAT

Red Br. Sandy SILT

Red Br. Silty CLAY
some gravel

-41.5

St: 11-29-73 Fin: 11-29-73
Water el. 103.7 11-29-73

N-37

El. 130

Misc. FILL

PEAT

Fine Red Br. Silty SAND

Shale ROCK Drilled
Run 1 C.R. 2'2"

-59.0

St: 1-28-74 Fin: 1-29-74
Water el. 92.5 1-29-74

N-38

El. 113.0

Misc. FILL

PEAT

Med Fine Red Br. SAND

Red Br. Clayey SILT
tr. fine sand

Red Br. Clayey SILT
tr. gravel

-41.5

St: 12-12-73 Fin: 12-12-73
Water el. 90.0 12-12-73

N-39

El. 112.5

Misc. FILL
Wood, Cobbles Sand Silt

PEAT

Red Br. SILT
& fine sand knots

Red Br. Clayey SILT

Red Br. Clayey SILT
tr. gravel & shale frags

Shale ROCK Drilled
Run 1 C.R. 0'11"
Run 2 C.R. 2'8"

-58.5

St: 1-18-74 Fin: 1-19-74
Water el. 101.7 1-19-74

N-40

El. 113.0

Misc. FILL

PEAT

Med Br. Gray SAND

Red Br. Sandy SILT

Red Br. Silty CLAY gravel

-41.5

St: 12-3-73 Fin: 12-7-73
Water el. 98.6 12-7-73

N-41

El. 110.0

Misc. FILL
Wood Sand Glass

Red Br. SILT
tr. fine sand

Red Br. Clayey SILT
& csc-fine gravel
tr. rock frag.

Shale ROCK Drilled
Run 1 C.R. 1'6"

-34.0

St: 1-24-74 Fin: 1-24-74
Water el. 103.0 1-24-74

N-42

El. 103.0

Br. Gray SAND

Gray SAND some silt

Red Br. SILT
tr. fine sand

Red Br. SILT
& csc fine gravel

Shale ROCK Drilled
Run 1 C.R. 1'6"

-31.0

St: 1-22-74 Fin: 1-22-74
Water el. 101.8 1-22-74

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WARREN GEORGE, INC.
DRILLING CONTRACTOR
JERSEY CITY, NEW JERSEY

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WATER POLLUTION CONTROL FACILITIES NEWARK, NEW JERSEY

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NEW JERSEY LICENSE NO 6756

CONTRACT 481-498 DRAWING No. B-22