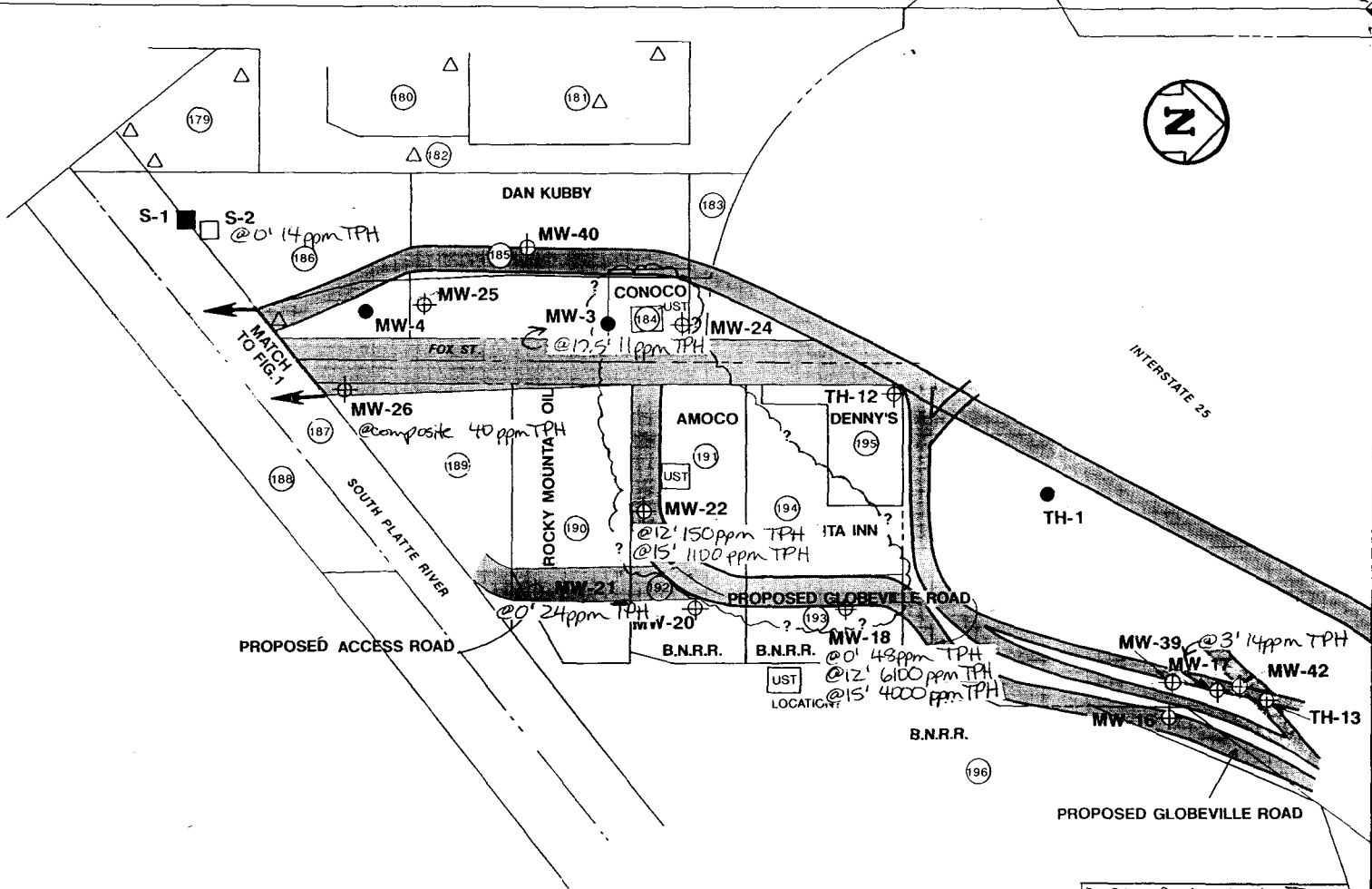
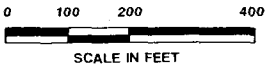


N.W. 1/4, SECTION 27
T3S, R68W



PROPOSED ACCESS ROAD

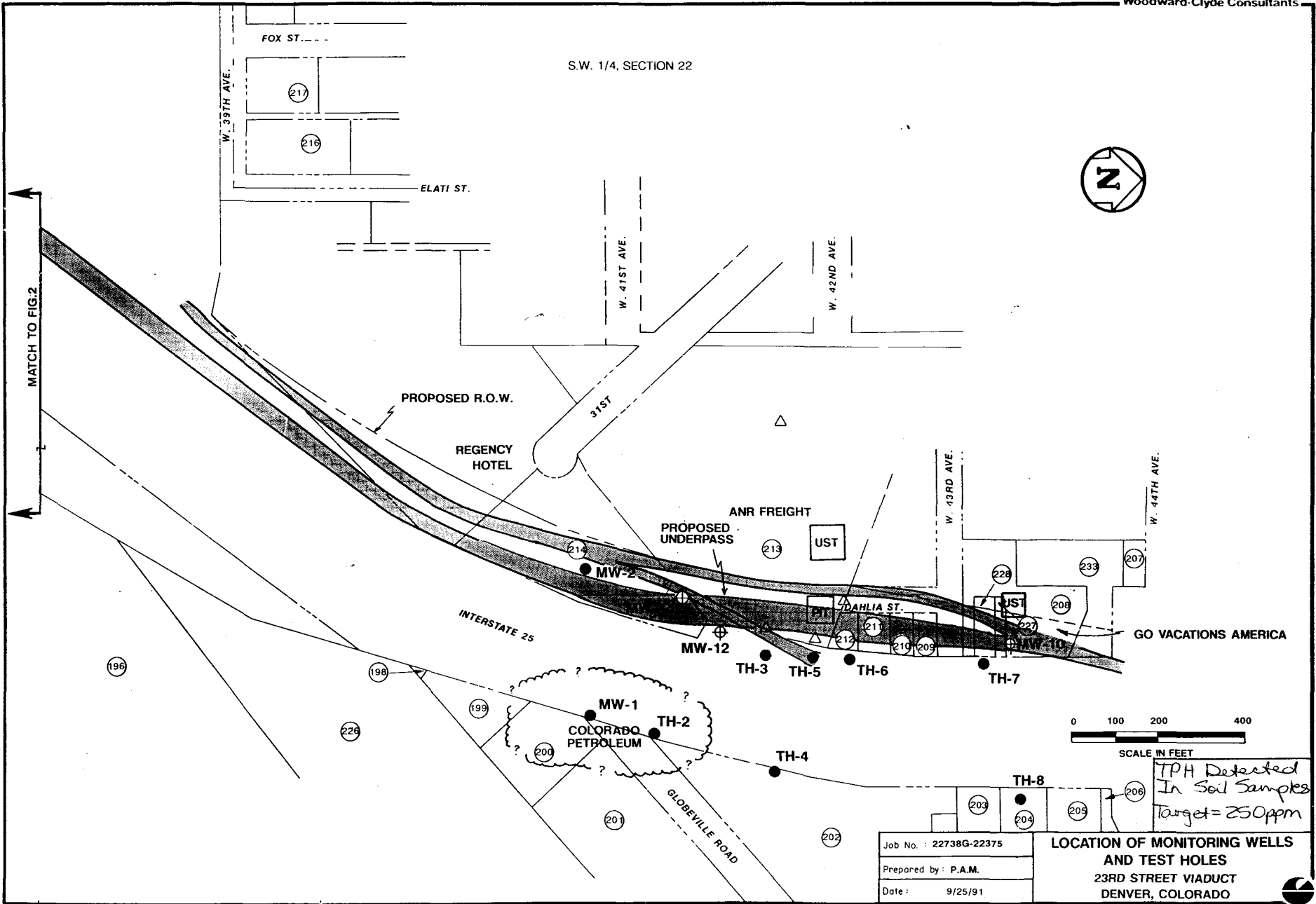


TPH Detected In
Soil Samples
Target = 250 ppm

Job No. : 22738G-22375
Prepared by: P.A.M.
Date: 9/25/91

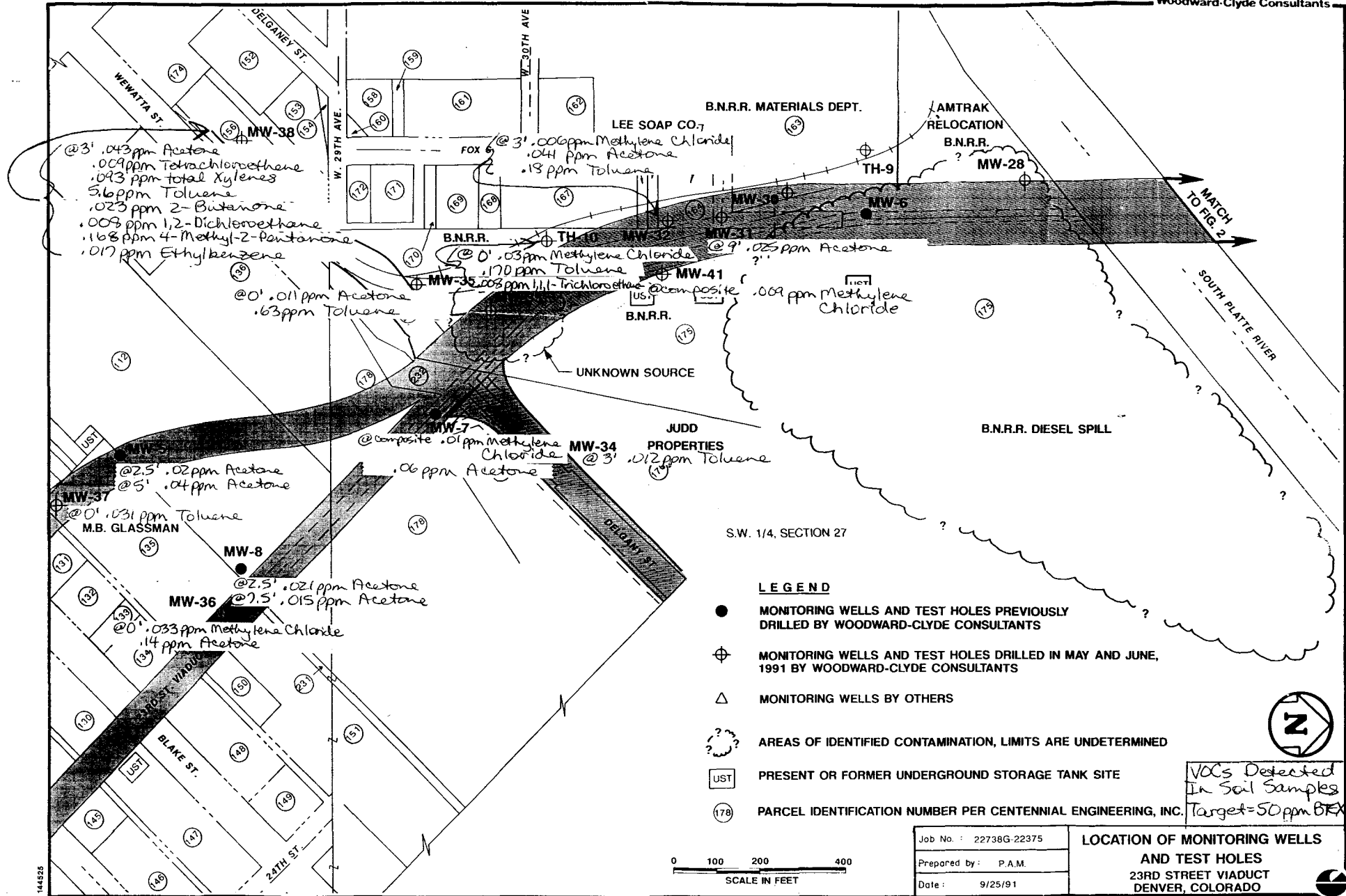
LOCATION OF MONITORING WELLS
AND TEST HOLES
23RD STREET VIADUCT
DENVER, COLORADO

S.W. 1/4, SECTION 22



144526

FIG. D-3



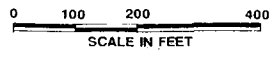
S.W. 1/4, SECTION 27

LEGEND

- MONITORING WELLS AND TEST HOLES PREVIOUSLY DRILLED BY WOODWARD-CLYDE CONSULTANTS
- ⊕ MONITORING WELLS AND TEST HOLES DRILLED IN MAY AND JUNE, 1991 BY WOODWARD-CLYDE CONSULTANTS
- △ MONITORING WELLS BY OTHERS
- ⊗ AREAS OF IDENTIFIED CONTAMINATION, LIMITS ARE UNDETERMINED
- UST PRESENT OR FORMER UNDERGROUND STORAGE TANK SITE
- (178) PARCEL IDENTIFICATION NUMBER PER CENTENNIAL ENGINEERING, INC.



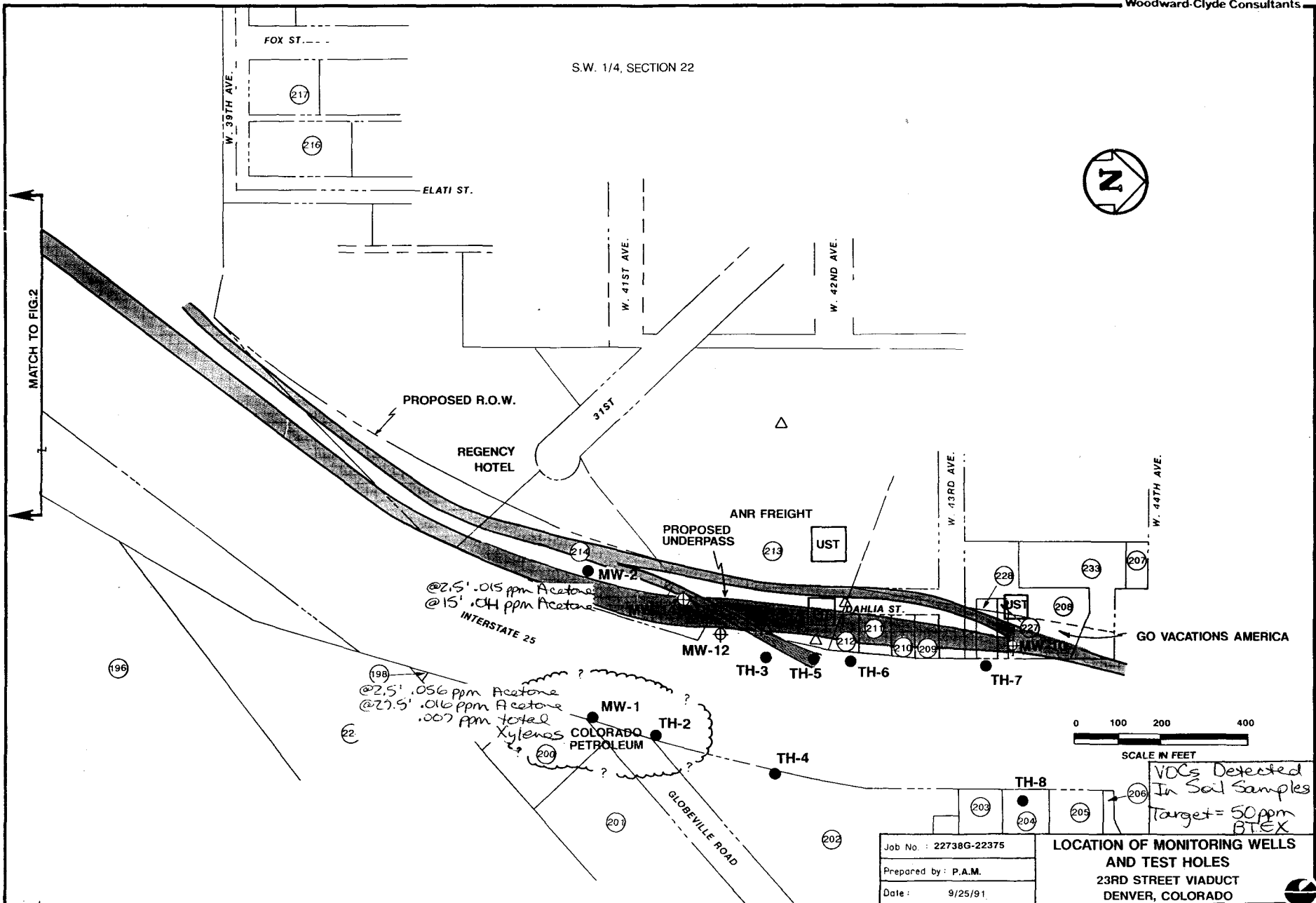
VOCs Detected In Soil Samples
Target = 50 ppm BTEX

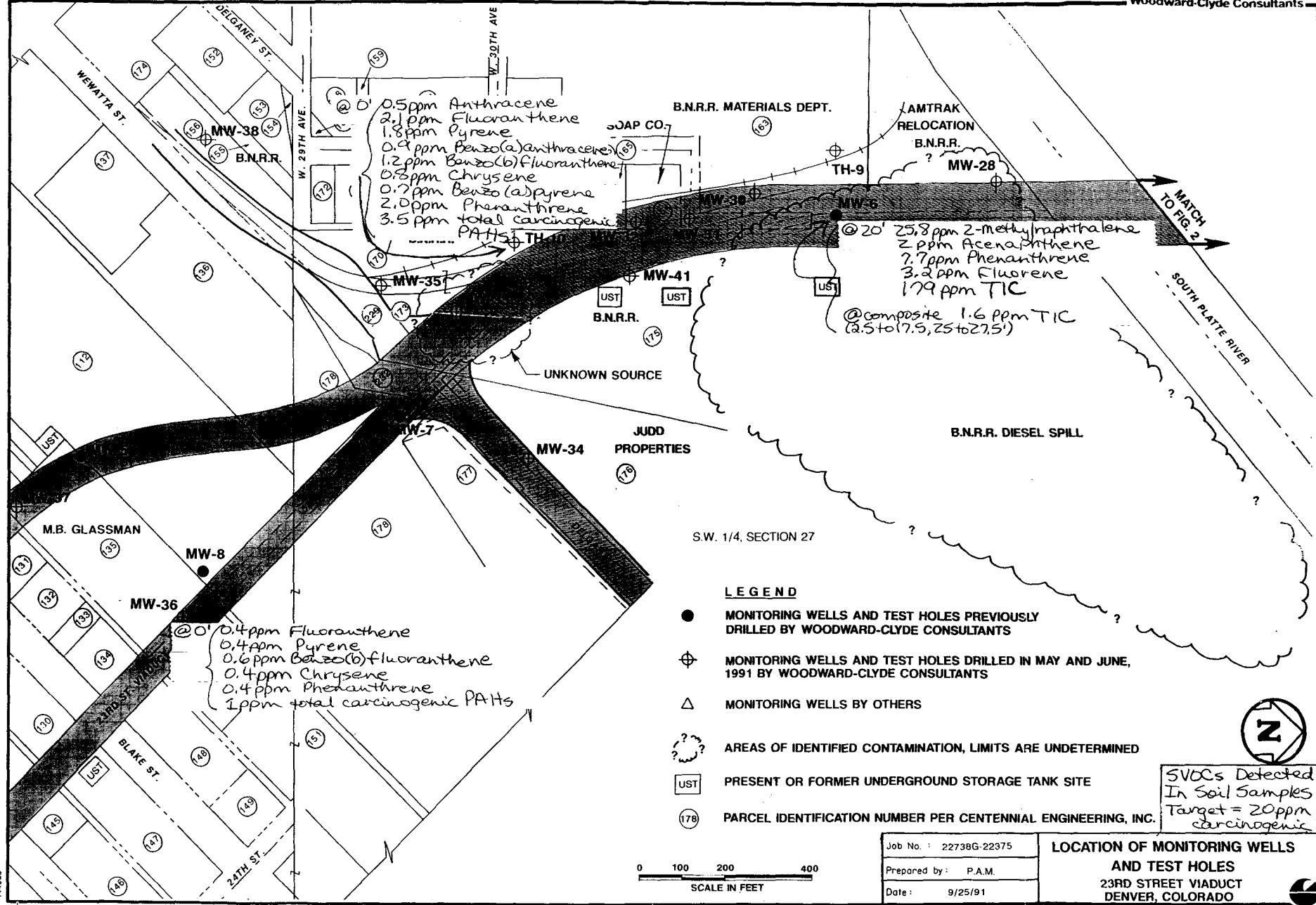


Job No. :	22738G-22375
Prepared by :	P.A.M.
Date :	9/25/91

LOCATION OF MONITORING WELLS AND TEST HOLES
23RD STREET VIADUCT
DENVER, COLORADO

S.W. 1/4, SECTION 22





0.5 ppm Anthracene
 2.1 ppm Fluoranthene
 1.8 ppm Pyrene
 0.4 ppm Benzo(a)anthracene
 1.2 ppm Benzo(b)fluoranthene
 0.8 ppm Chrysene
 0.7 ppm Benzo(a)pyrene
 2.0 ppm Phenanthrene
 3.5 ppm total carcinogenic PAHs

@ 20' 25.8 ppm 2-methylnaphthalene
 2 ppm Acenaphthene
 7.7 ppm Phenanthrene
 3.2 ppm Fluorene
 179 ppm TIC

@ composite 1.6 ppm TIC
 (2.5 to 17.5, 25 to 27.5)

@ 0' 0.4 ppm Fluoranthene
 0.4 ppm Pyrene
 0.6 ppm Benzo(b)fluoranthene
 0.4 ppm Chrysene
 0.4 ppm Phenanthrene
 1 ppm total carcinogenic PAHs

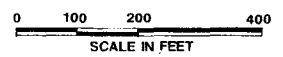
LEGEND

- MONITORING WELLS AND TEST HOLES PREVIOUSLY DRILLED BY WOODWARD-CLYDE CONSULTANTS
- ⊕ MONITORING WELLS AND TEST HOLES DRILLED IN MAY AND JUNE, 1991 BY WOODWARD-CLYDE CONSULTANTS
- △ MONITORING WELLS BY OTHERS
- ⊗ AREAS OF IDENTIFIED CONTAMINATION, LIMITS ARE UNDETERMINED
- UST PRESENT OR FORMER UNDERGROUND STORAGE TANK SITE
- 179 PARCEL IDENTIFICATION NUMBER PER CENTENNIAL ENGINEERING, INC.

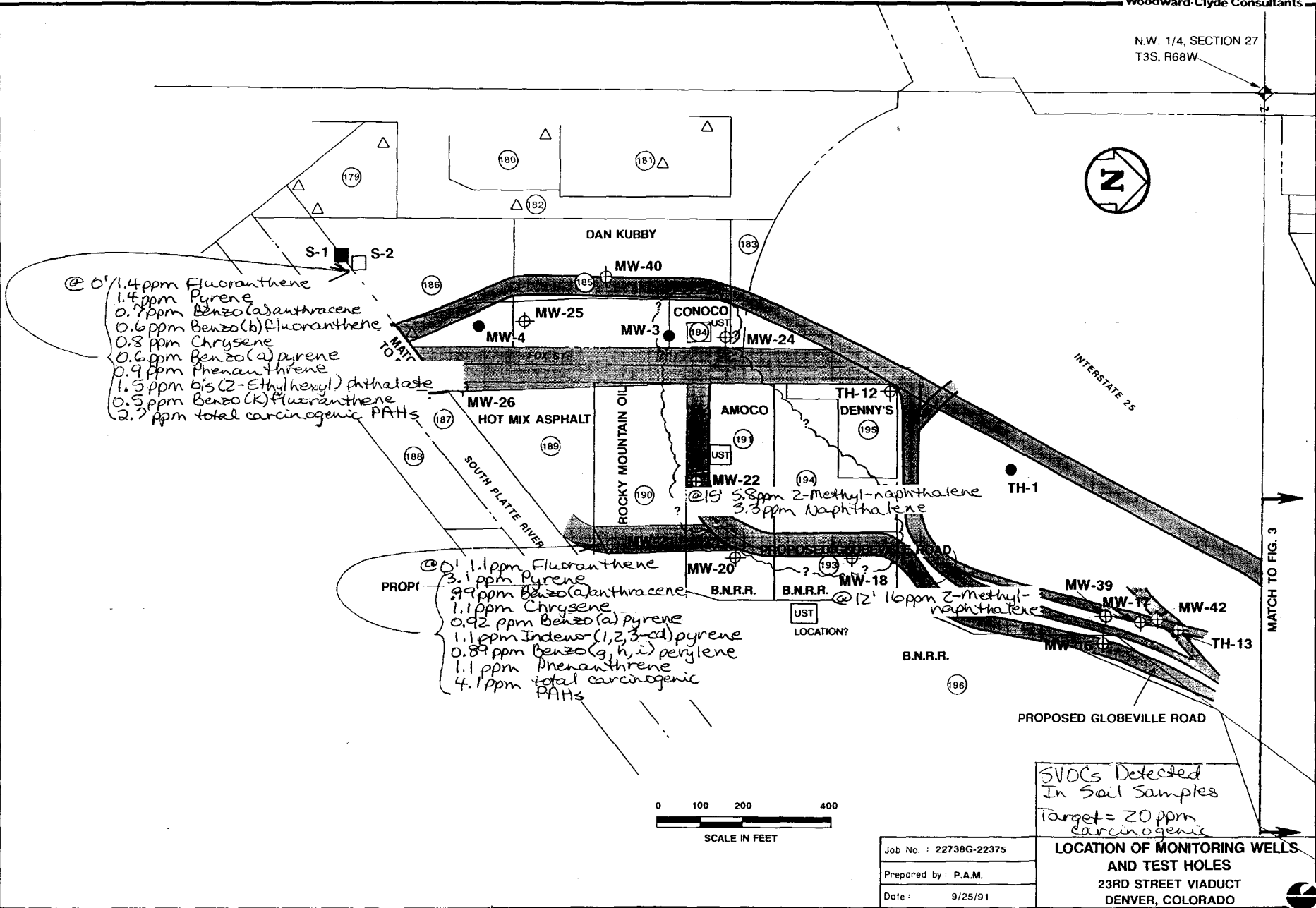
SVOCs Detected
 In Soil Samples
 Target = 20ppm
 carcinogenic

Job No. :	22738G-22375
Prepared by :	P.A.M.
Date :	9/25/91

LOCATION OF MONITORING WELLS AND TEST HOLES
 23RD STREET VIADUCT
 DENVER, COLORADO

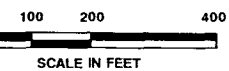


N.W. 1/4, SECTION 27
T3S, R68W



@ 0' 1.4 ppm Fluoranthene
 1.4 ppm Pyrene
 0.7 ppm Benzo(a)anthracene
 0.6 ppm Benzo(b)fluoranthene
 0.8 ppm Chrysene
 0.6 ppm Benzo(a)pyrene
 0.9 ppm Phenanthrene
 1.5 ppm bis(2-Ethylhexyl) phthalate
 0.5 ppm Benzo(k)fluoranthene
 2.7 ppm total carcinogenic PAHs

PROPI @ 0' 1.1 ppm Fluoranthene
 3.1 ppm Pyrene
 9.9 ppm Benzo(a)anthracene
 1.1 ppm Chrysene
 0.92 ppm Benzo(a)pyrene
 1.1 ppm Indeno(1,2,3-cd)pyrene
 0.84 ppm Benzo(g,h,i)perylene
 1.1 ppm Phenanthrene
 4.1 ppm total carcinogenic PAHs



SVOCs Detected
 In Soil Samples
 Target = 20 ppm
 carcinogenic

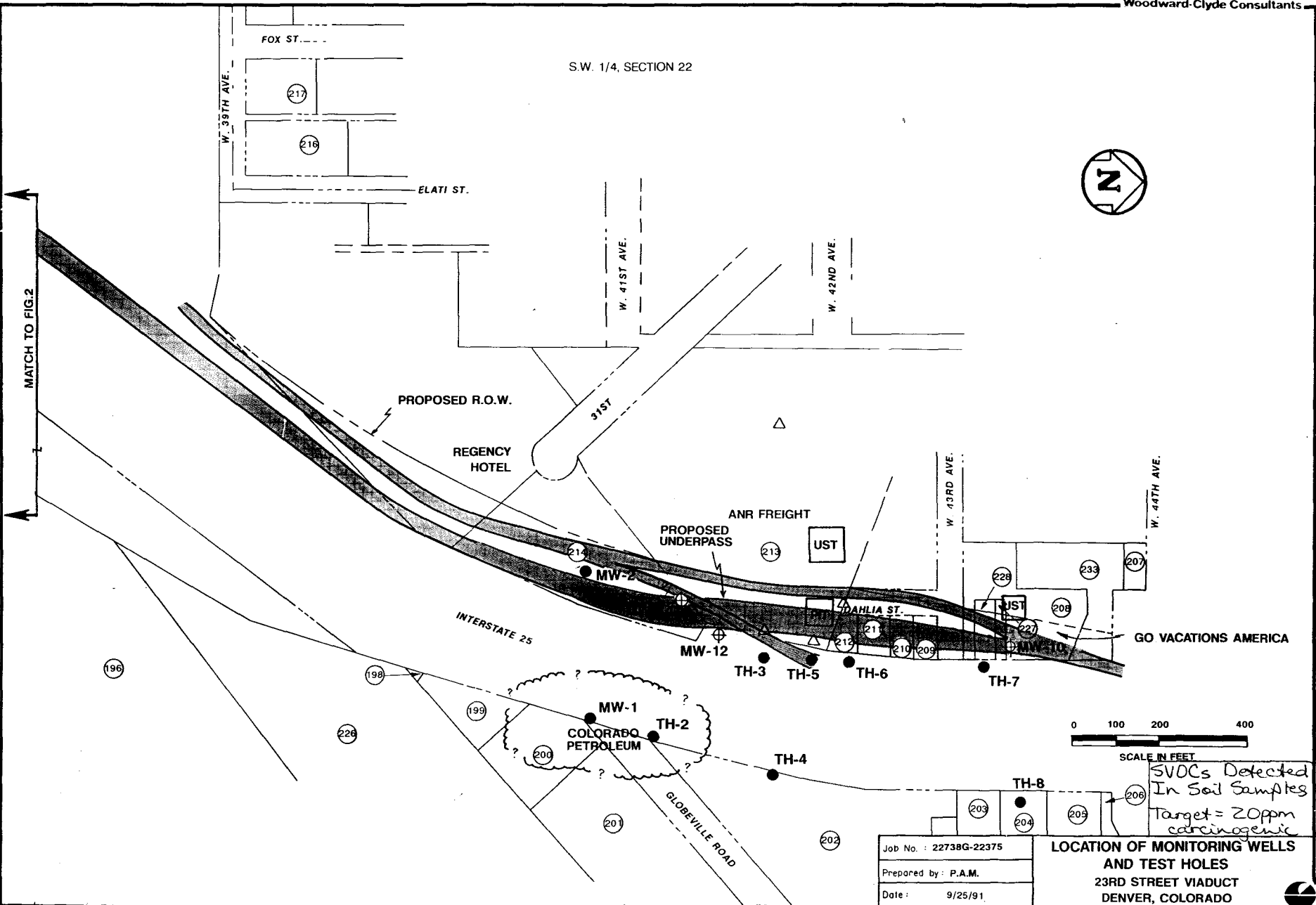
Job No. : 22738G-22375
 Prepared by : P.A.M.
 Date : 9/25/91

LOCATION OF MONITORING WELLS
 AND TEST HOLES
 23RD STREET VIADUCT
 DENVER, COLORADO

144525

MATCH TO FIG. 3

S.W. 1/4, SECTION 22



MATCH TO FIG. 2

PROPOSED R.O.W.

REGENCY HOTEL

ANR FREIGHT

PROPOSED UNDERPASS

UST

INTERSTATE 25

DAHLIA ST.

GO VACATIONS AMERICA

COLORADO PETROLEUM

GLOBEVILLE ROAD

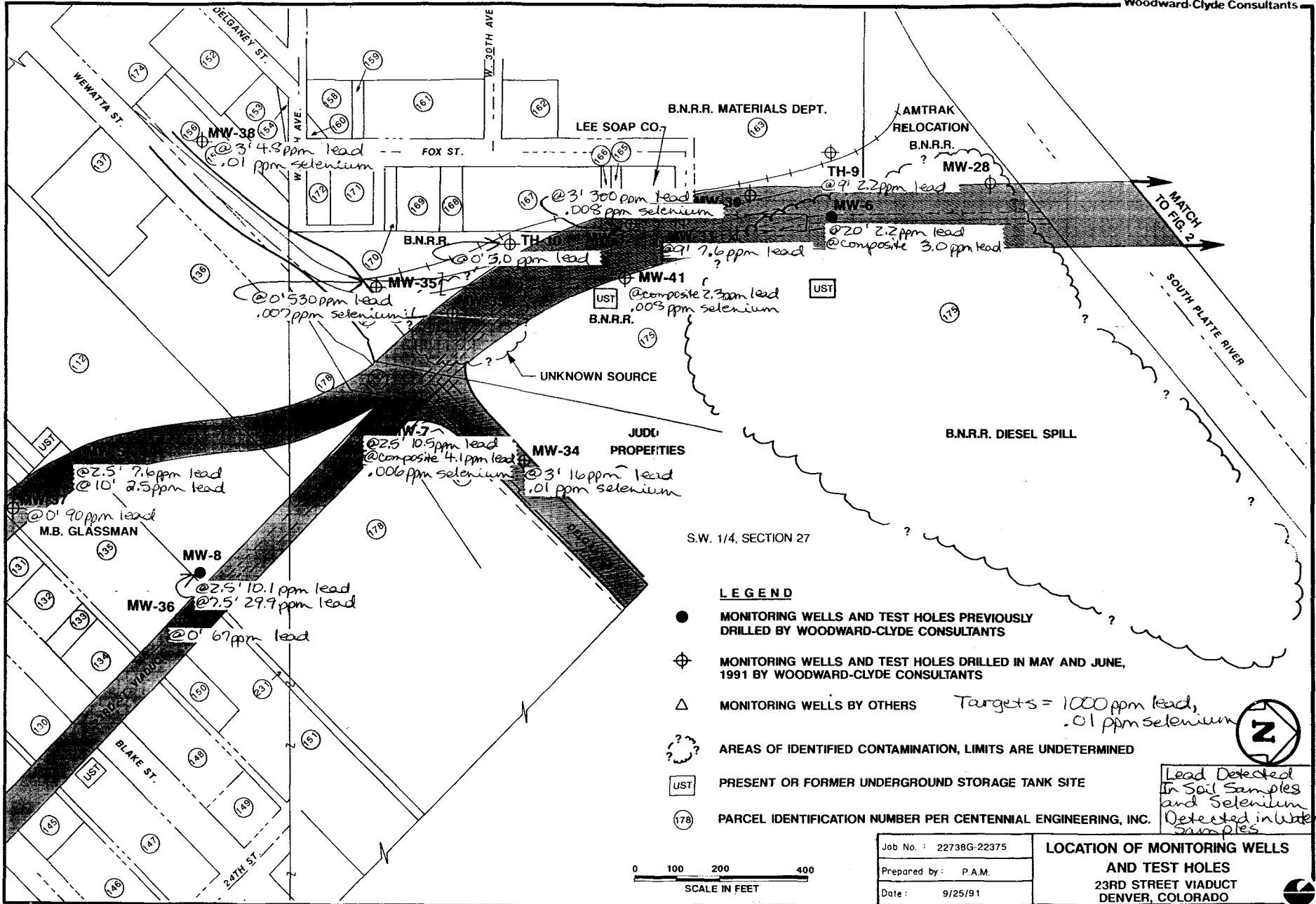
0 100 200 400

SCALE IN FEET

SVOCs Detected
In Soil Samples
Target = 20ppm
carcinogenic

Job No. : 22738G-22375
Prepared by : P.A.M.
Date : 9/25/91

LOCATION OF MONITORING WELLS
AND TEST HOLES
23RD STREET VIADUCT
DENVER, COLORADO



S.W. 1/4, SECTION 27

LEGEND

- MONITORING WELLS AND TEST HOLES PREVIOUSLY DRILLED BY WOODWARD-CLYDE CONSULTANTS
- ⊕ MONITORING WELLS AND TEST HOLES DRILLED IN MAY AND JUNE, 1991 BY WOODWARD-CLYDE CONSULTANTS
- △ MONITORING WELLS BY OTHERS Targets = 1000 ppm lead, .01 ppm selenium
- ⊗ AREAS OF IDENTIFIED CONTAMINATION, LIMITS ARE UNDETERMINED
- UST PRESENT OR FORMER UNDERGROUND STORAGE TANK SITE
- (178) PARCEL IDENTIFICATION NUMBER PER CENTENNIAL ENGINEERING, INC.

Lead Detected in Soil Samples and Selenium Detected in Water Samples

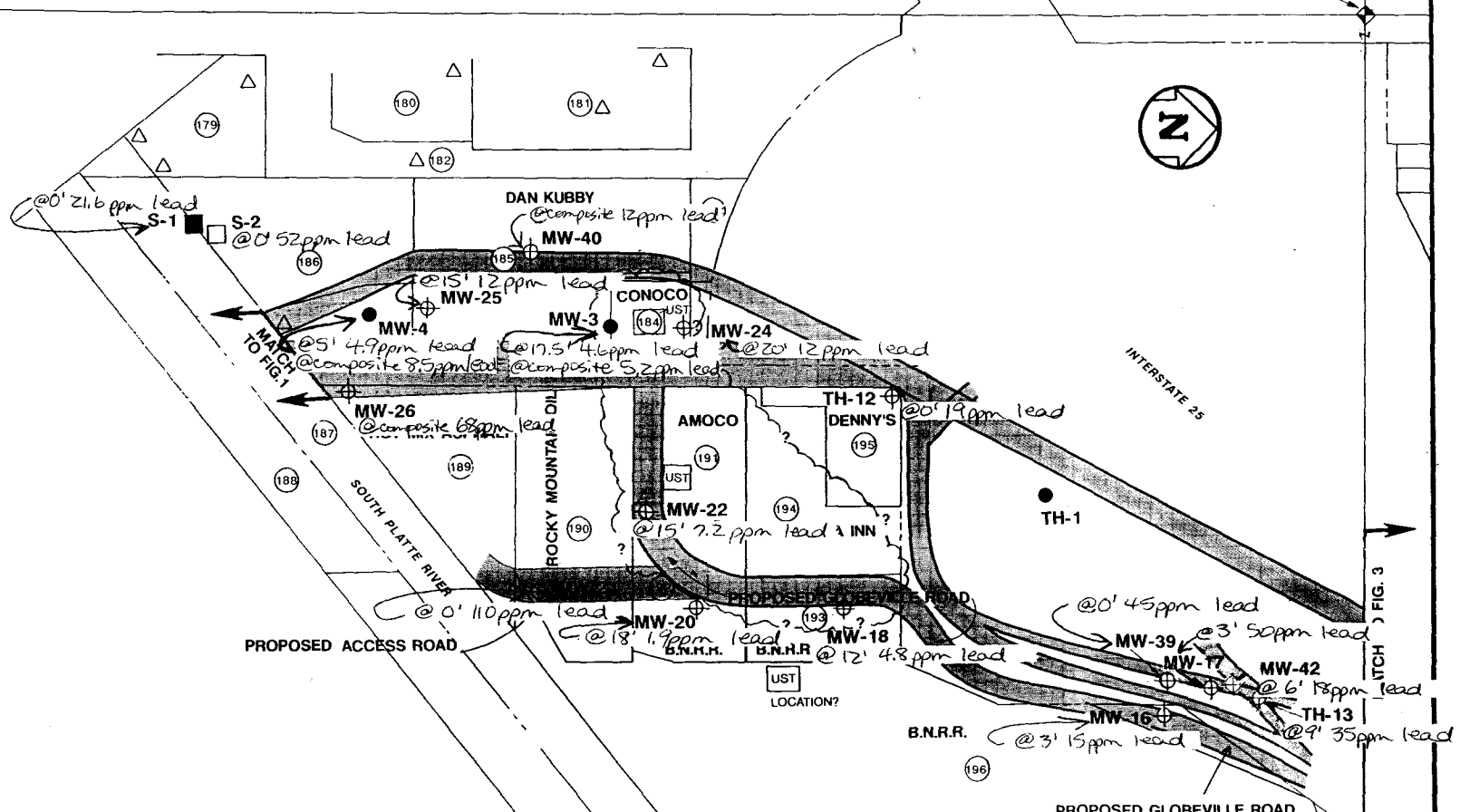
Job No. : 22738G-22375
Prepared by : P.A.M.
Date : 9/25/91

LOCATION OF MONITORING WELLS AND TEST HOLES
 23RD STREET VIADUCT
 DENVER, COLORADO



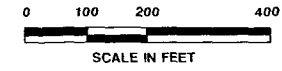
144525

N.W. 1/4, SECTION 27
T3S. R68W



Targets = 1000 ppm lead,
 .01 ppm selenium

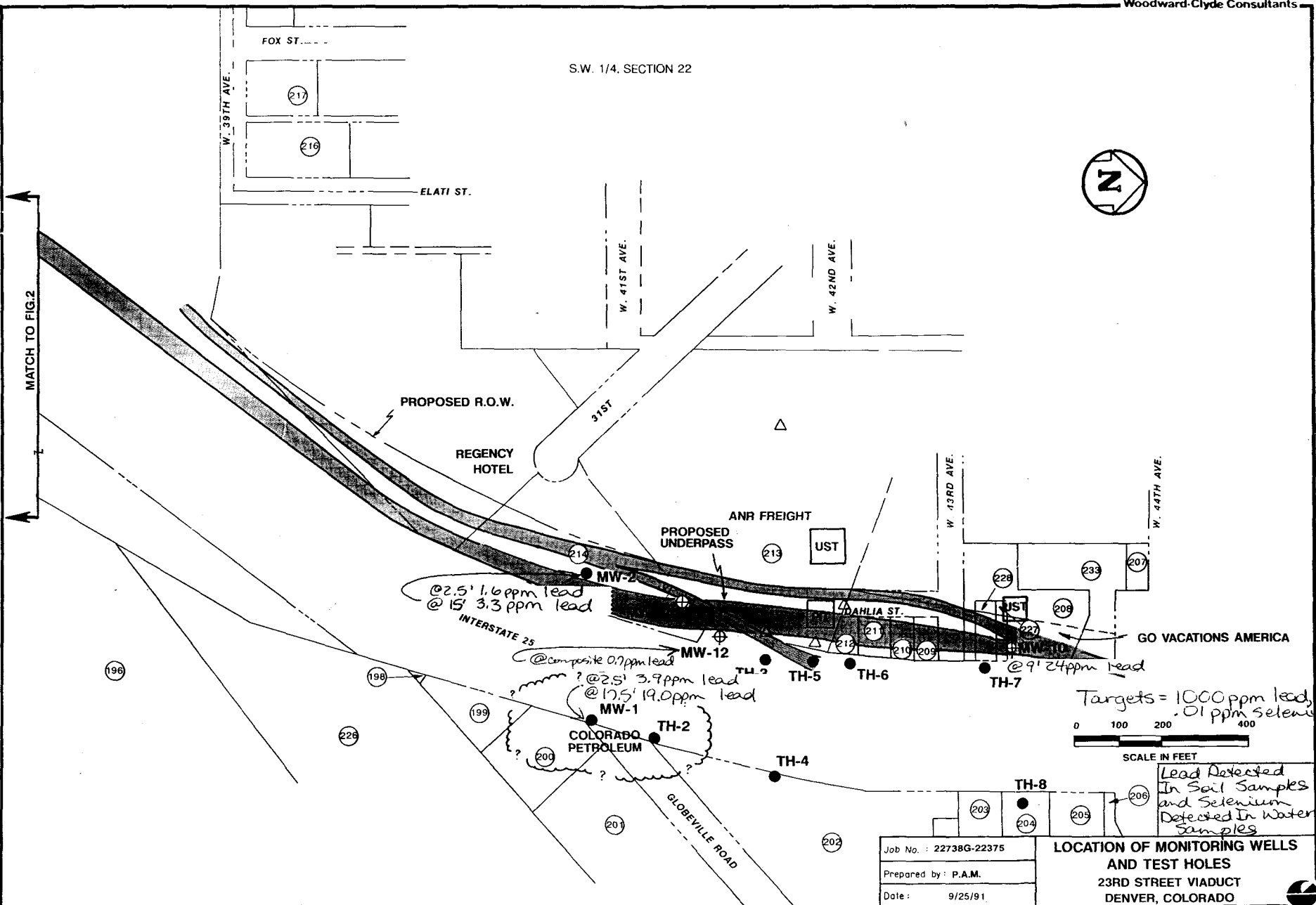
Lead Detected In
 Soil Samples and
 Selenium Detected
 In Water Samples



Job No. : 22738G-22375
 Prepared by : P.A.M.
 Date : 9/25/91

**LOCATION OF MONITORING WELLS
 AND TEST HOLES**
 23RD STREET VIADUCT
 DENVER, COLORADO

S.W. 1/4. SECTION 22



MATCH TO FIG. 2

PROPOSED R.O.W.

REGENCY HOTEL

PROPOSED UNDERPASS

ANR FREIGHT

UST

MAHLIA ST.

GO VACATIONS AMERICA

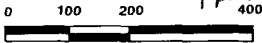
@ 2.5' 1.6 ppm lead
@ 15' 3.3 ppm lead

@ composite 0.7 ppm lead

? @ 2.5' 3.9 ppm lead
? @ 17.5' 19.0 ppm lead

@ 9' 24 ppm lead

Targets = 1000 ppm lead
.01 ppm selenium

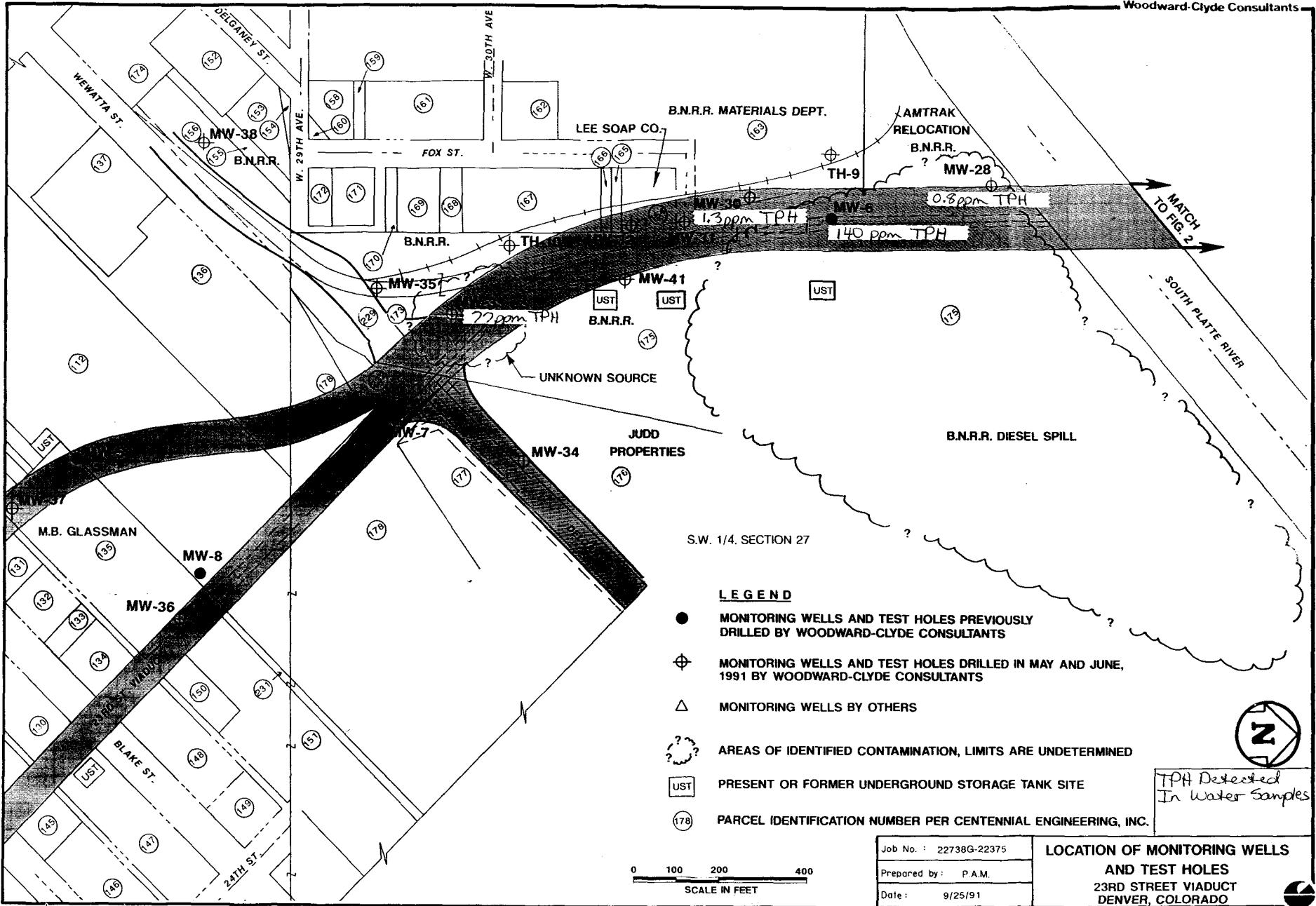


SCALE IN FEET

Lead Detected
in Soil Samples
and Selenium
Detected in Water
Samples

Job No. : 22738G-22375
Prepared by : P.A.M.
Date : 9/25/91

**LOCATION OF MONITORING WELLS
AND TEST HOLES**
23RD STREET VIADUCT
DENVER, COLORADO



S.W. 1/4 SECTION 27

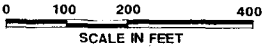
LEGEND

- MONITORING WELLS AND TEST HOLES PREVIOUSLY DRILLED BY WOODWARD-CLYDE CONSULTANTS
- ⊕ MONITORING WELLS AND TEST HOLES DRILLED IN MAY AND JUNE, 1991 BY WOODWARD-CLYDE CONSULTANTS
- △ MONITORING WELLS BY OTHERS
- ⊙ AREAS OF IDENTIFIED CONTAMINATION, LIMITS ARE UNDETERMINED
- UST PRESENT OR FORMER UNDERGROUND STORAGE TANK SITE
- (178) PARCEL IDENTIFICATION NUMBER PER CENTENNIAL ENGINEERING, INC.

TPH Detected
In Water Samples

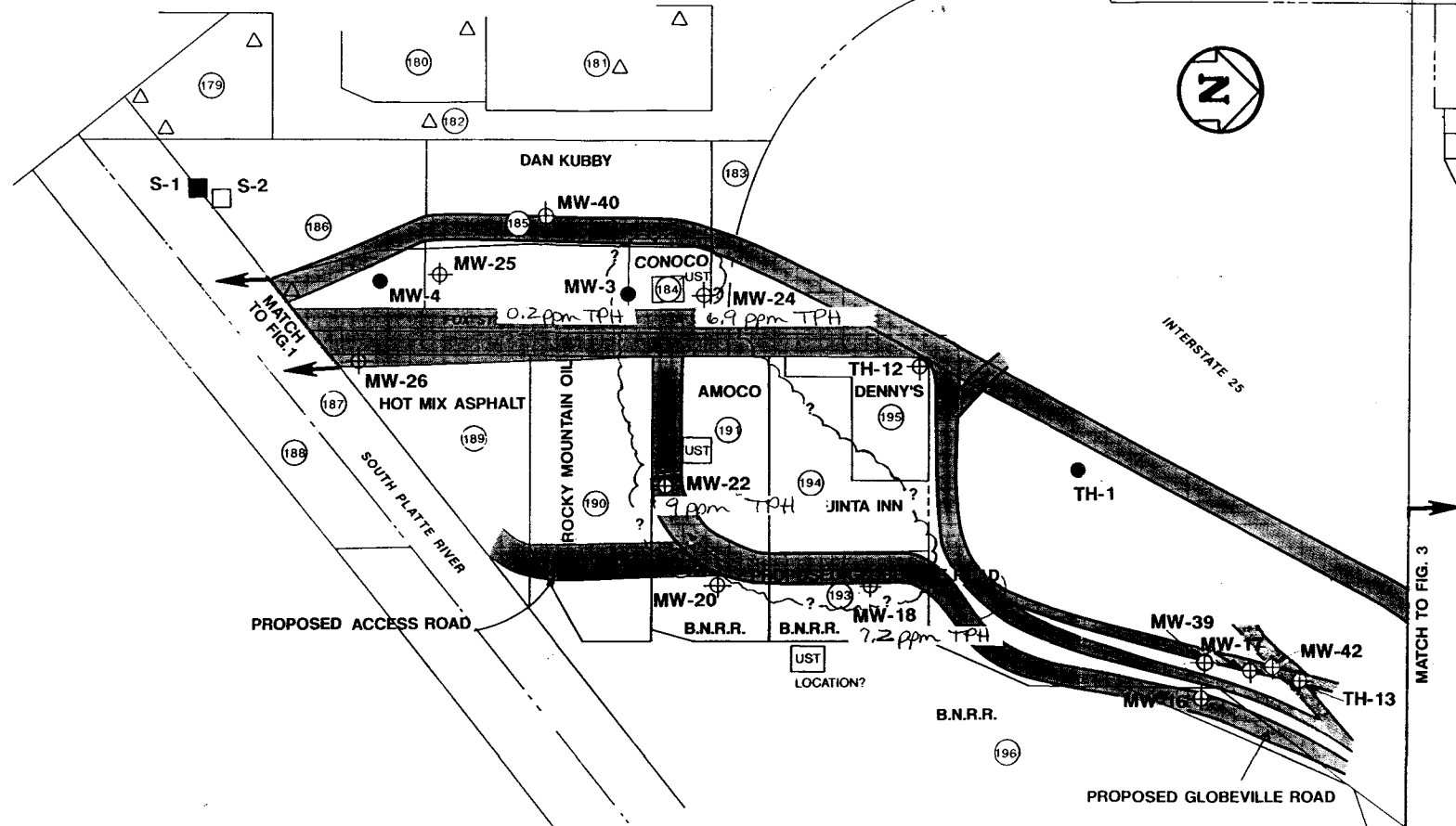
Job No. : 22738G-22375
Prepared by : P.A.M.
Date : 9/25/91

**LOCATION OF MONITORING WELLS
AND TEST HOLES**
23RD STREET VIADUCT
DENVER, COLORADO



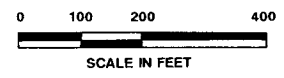
144523

N.W. 1/4, SECTION 27
T3S, R68W



PROPOSED ACCESS ROAD

PROPOSED GLOBEVILLE ROAD

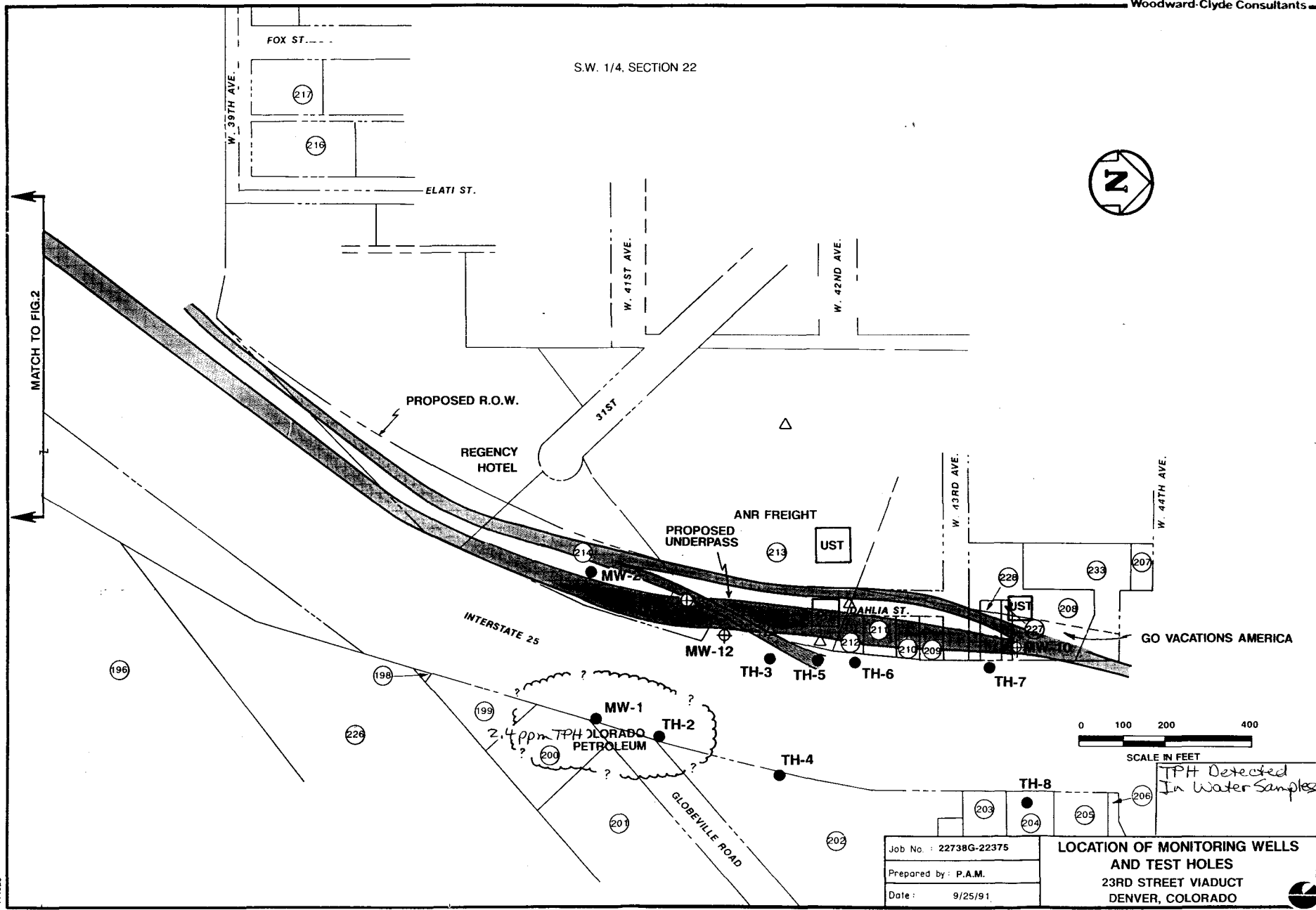


TPH Detected In
Water Samples

Job No. : 22738G-22375
 Prepared by : P.A.M.
 Date : 9/25/91

**LOCATION OF MONITORING WELLS
 AND TEST HOLES**
 23RD STREET VIADUCT
 DENVER, COLORADO

S.W. 1/4, SECTION 22



MATCH TO FIG. 2

PROPOSED R.O.W.

REGENCY HOTEL

ANR FREIGHT
PROPOSED UNDERPASS

INTERSTATE 25

GO VACATIONS AMERICA

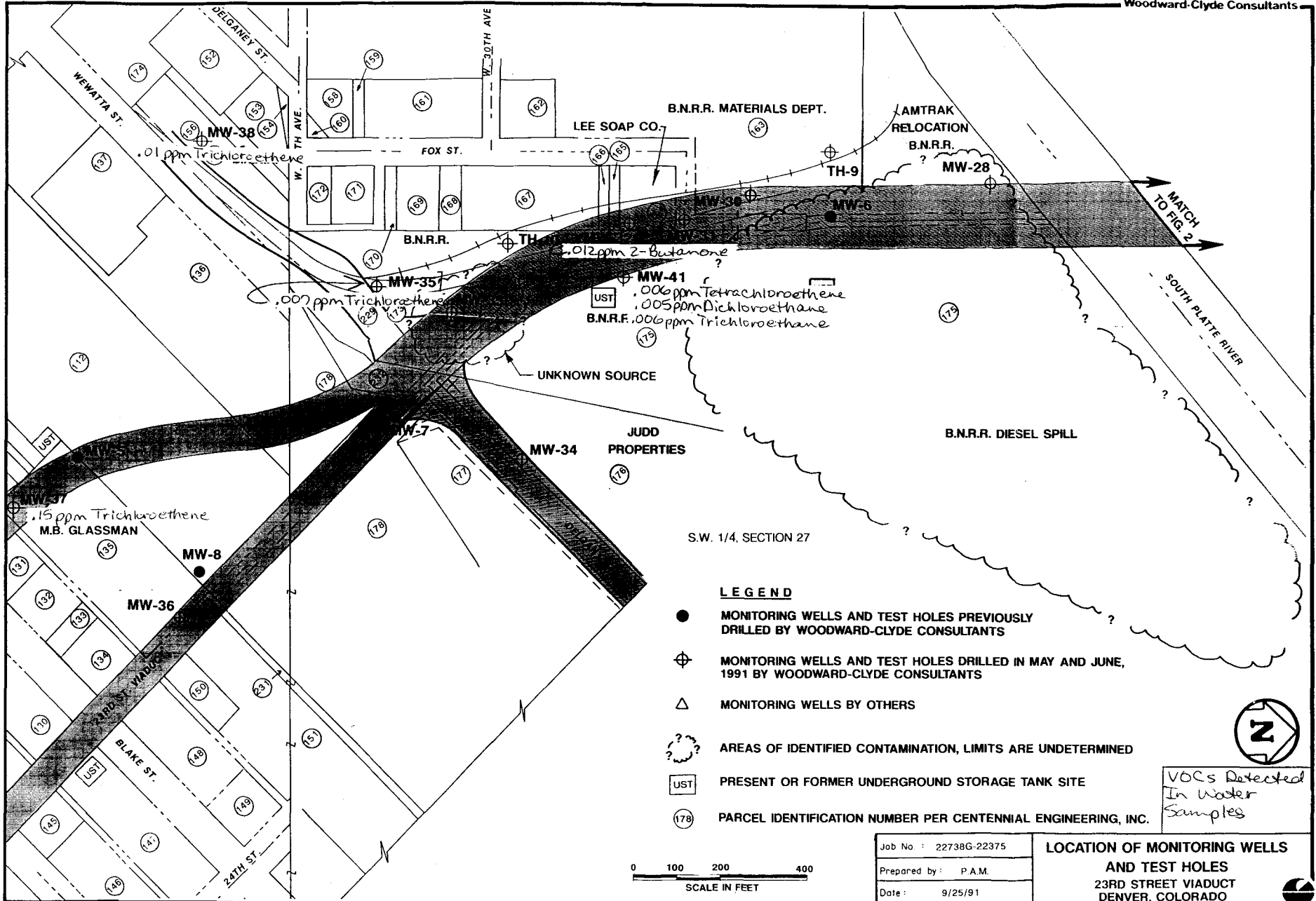
MW-1
TH-2
2.4 ppm TPH LABORATORY
PETROLEUM

0 100 200 400
SCALE IN FEET

Job No.: 22738G-22375
Prepared by: P.A.M.
Date: 9/25/91

LOCATION OF MONITORING WELLS
AND TEST HOLES
23RD STREET VIADUCT
DENVER, COLORADO

TPH Detected
In Water Samples



B.N.R.R. MATERIALS DEPT.

LEE SOAP CO.

AMTRAK
RELOCATION
B.N.R.R.

B.N.R.R.

UNKNOWN SOURCE

J.U.D.D.
PROPERTIES

B.N.R.R. DIESEL SPILL

S.W. 1/4 SECTION 27

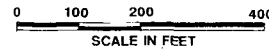
LEGEND

- MONITORING WELLS AND TEST HOLES PREVIOUSLY DRILLED BY WOODWARD-CLYDE CONSULTANTS
- ⊕ MONITORING WELLS AND TEST HOLES DRILLED IN MAY AND JUNE, 1991 BY WOODWARD-CLYDE CONSULTANTS
- △ MONITORING WELLS BY OTHERS
- ⊕? AREAS OF IDENTIFIED CONTAMINATION, LIMITS ARE UNDETERMINED
- UST PRESENT OR FORMER UNDERGROUND STORAGE TANK SITE
- (178) PARCEL IDENTIFICATION NUMBER PER CENTENNIAL ENGINEERING, INC.

VOCs Detected
In Water
Samples

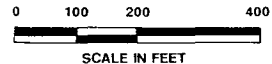
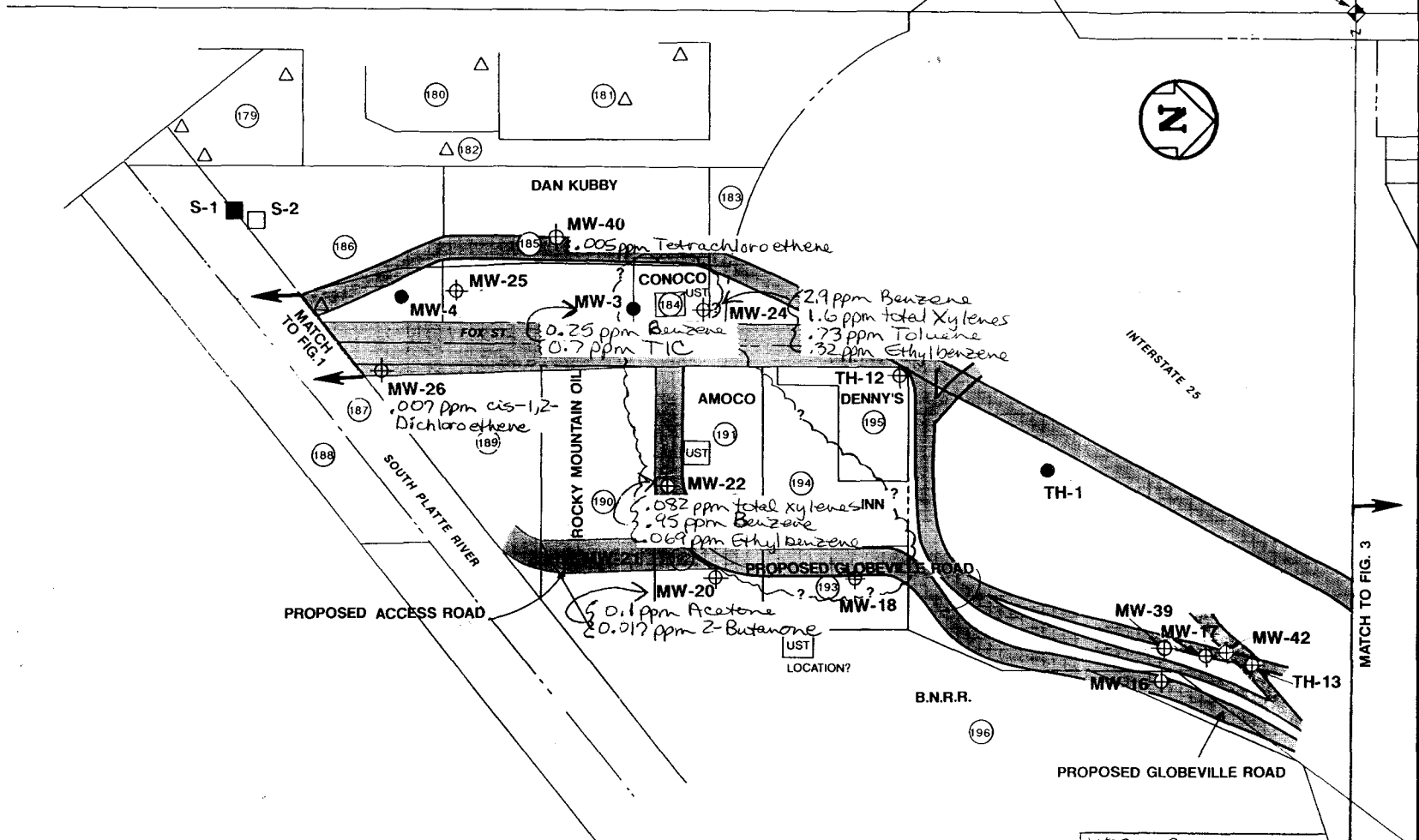
Job No : 22738G-22375
Prepared by : P.A.M.
Date : 9/25/91

**LOCATION OF MONITORING WELLS
AND TEST HOLES**
23RD STREET VIADUCT
DENVER, COLORADO



144525

N.W. 1/4, SECTION 27
T3S, R68W



VOCs Detected
In Water Samples

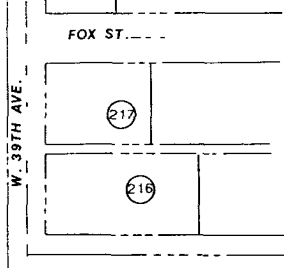
Job No. : 22738G-22375
 Prepared by : P.A.M.
 Date : 9/25/91

**LOCATION OF MONITORING WELLS
 AND TEST HOLES**
 23RD STREET VIADUCT
 DENVER, COLORADO

S.W. 1/4, SECTION 22



MATCH TO FIG. 2



PROPOSED R.O.W.

REGENCY HOTEL

ANR FREIGHT

PROPOSED UNDERPASS

UST

W. 43RD AVE.

W. 44TH AVE.

INTERSTATE 25

DAHLIA ST.

GO VACATIONS AMERICA

0.53 ppm total Xylenes
3.2 ppm benzene
1 ppm TIC

MW-1

COLORADO PETROLEUM

MW-12

TH-3

TH-5

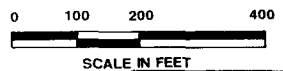
TH-6

TH-7

TH-4

TH-8

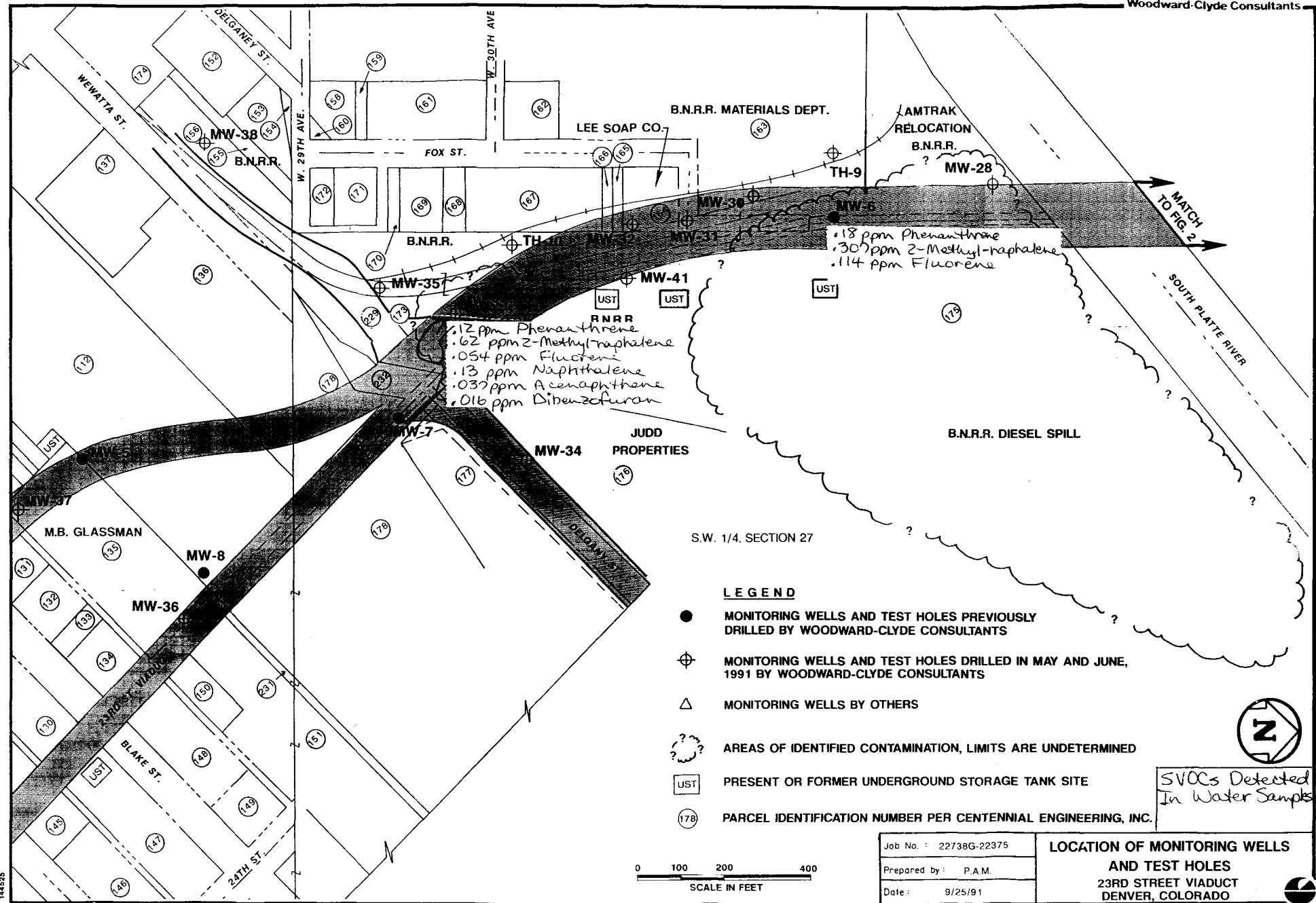
VOCs Detected
In Water
Samples



Job No. : 22738G-22375
Prepared by : P.A.M.
Date : 9/25/91

LOCATION OF MONITORING WELLS
AND TEST HOLES
23RD STREET VIADUCT
DENVER, COLORADO

144525



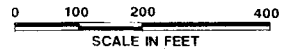
.12 ppm Phenanthrene
 .62 ppm 2-Methyl-naphthalene
 .054 ppm Fluorene
 .13 ppm Naphthalene
 .037 ppm Acenaphthene
 .016 ppm Dibenzofuran

.18 ppm Phenanthrene
 .30 ppm 2-Methyl-naphthalene
 .114 ppm Fluorene

LEGEND

- MONITORING WELLS AND TEST HOLES PREVIOUSLY DRILLED BY WOODWARD-CLYDE CONSULTANTS
- ⊕ MONITORING WELLS AND TEST HOLES DRILLED IN MAY AND JUNE, 1991 BY WOODWARD-CLYDE CONSULTANTS
- △ MONITORING WELLS BY OTHERS
- ⊖ AREAS OF IDENTIFIED CONTAMINATION, LIMITS ARE UNDETERMINED
- UST PRESENT OR FORMER UNDERGROUND STORAGE TANK SITE
- 178 PARCEL IDENTIFICATION NUMBER PER CENTENNIAL ENGINEERING, INC.

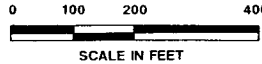
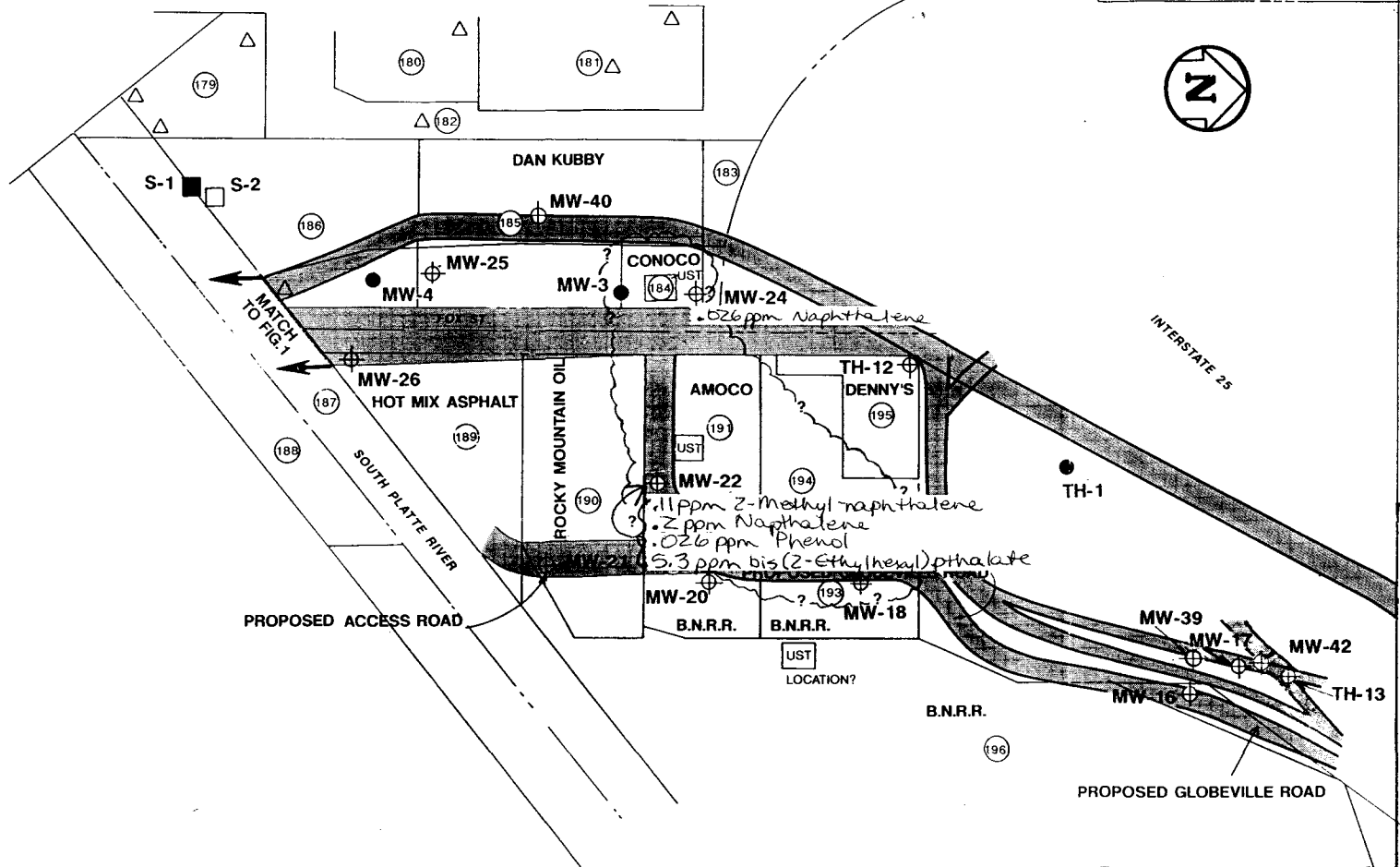
SVOCs Detected In Water Samples



Job No. : 22738G-22375
 Prepared by : P.A.M.
 Date: 9/25/91

**LOCATION OF MONITORING WELLS
 AND TEST HOLES**
 23RD STREET VIADUCT
 DENVER, COLORADO

N.W. 1/4, SECTION 27
T3S, R68W

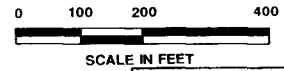


SVOCs Detected
In Water Samples

Job No. : 22738G-22375
 Prepared by: P.A.M.
 Date: 9/25/91

**LOCATION OF MONITORING WELLS
 AND TEST HOLES**
 23RD STREET VIADUCT
 DENVER, COLORADO

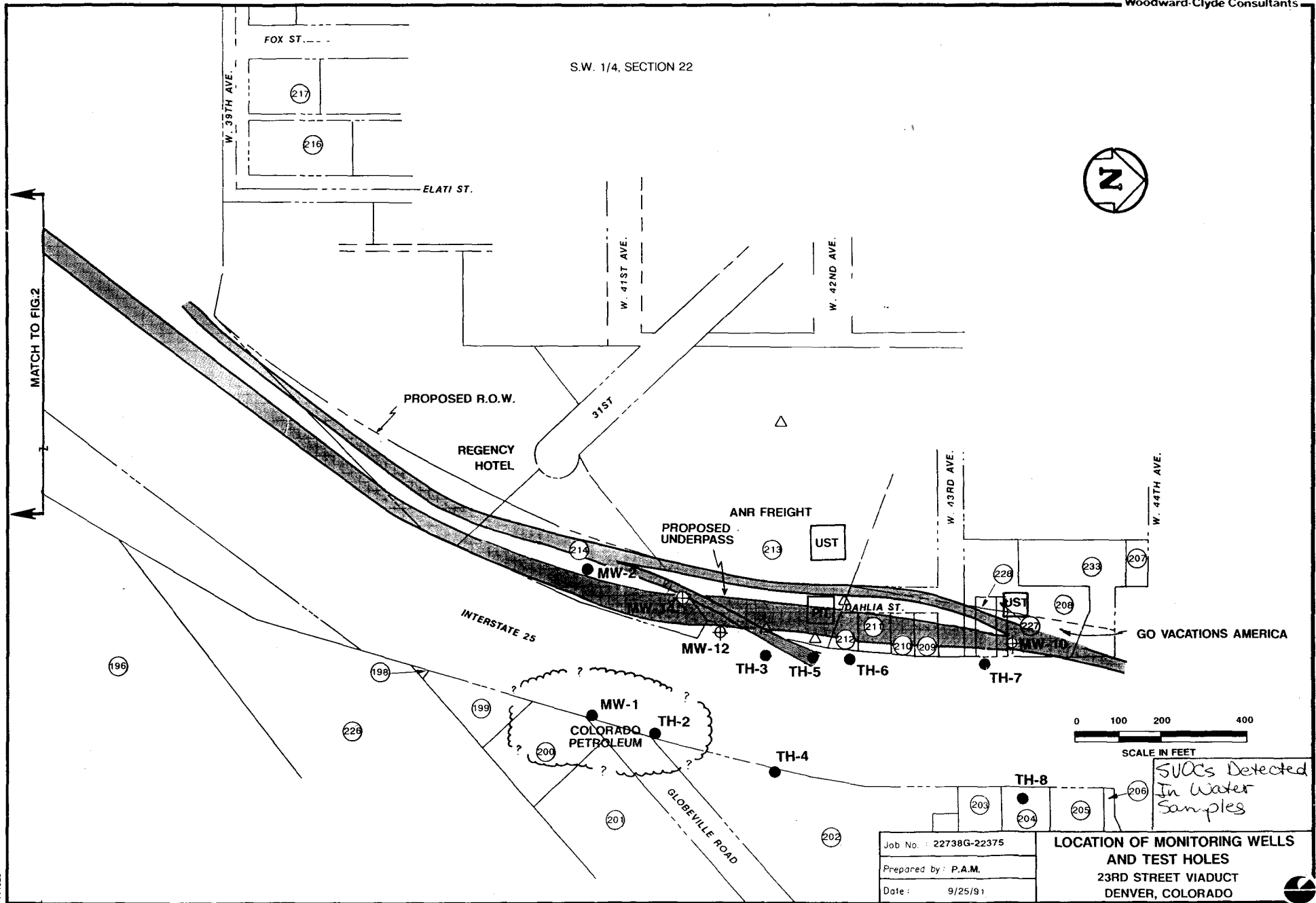
S.W. 1/4, SECTION 22



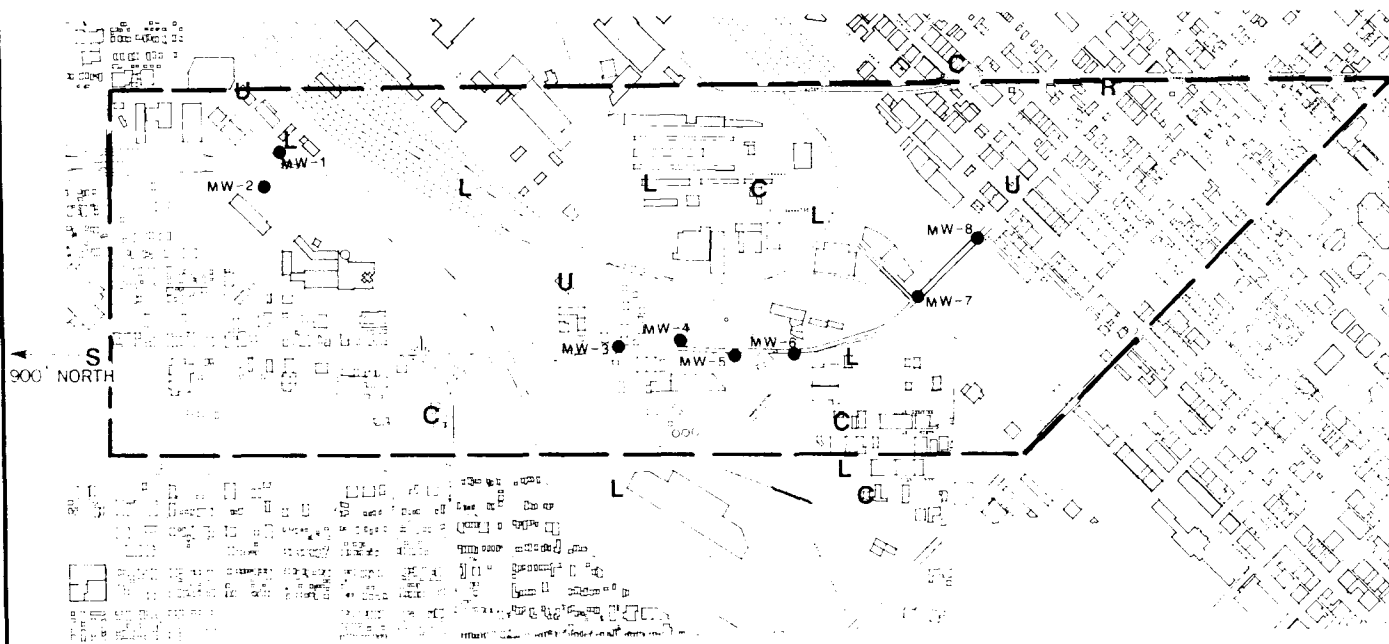
SVOCs Detected
In Water
Samples

Job No. : 22738G-22375
Prepared by: P.A.M.
Date: 9/25/91

**LOCATION OF MONITORING WELLS
AND TEST HOLES**
23RD STREET VIADUCT
DENVER, COLORADO

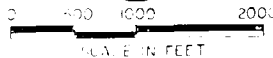


MATCH TO FIG. 2



LEGEND

- U** LEAVING UST
- C** CFC/CLIS SITE
- L** NEUTRICAL LANDFILL
- R** DENVER RADIUM SITE (API)
- S** LOCATION OF FARMER BUSHING AND CUL RADIUM (ARG) W/SLITER
- PROPOSED MONITORING WELL LOCATION

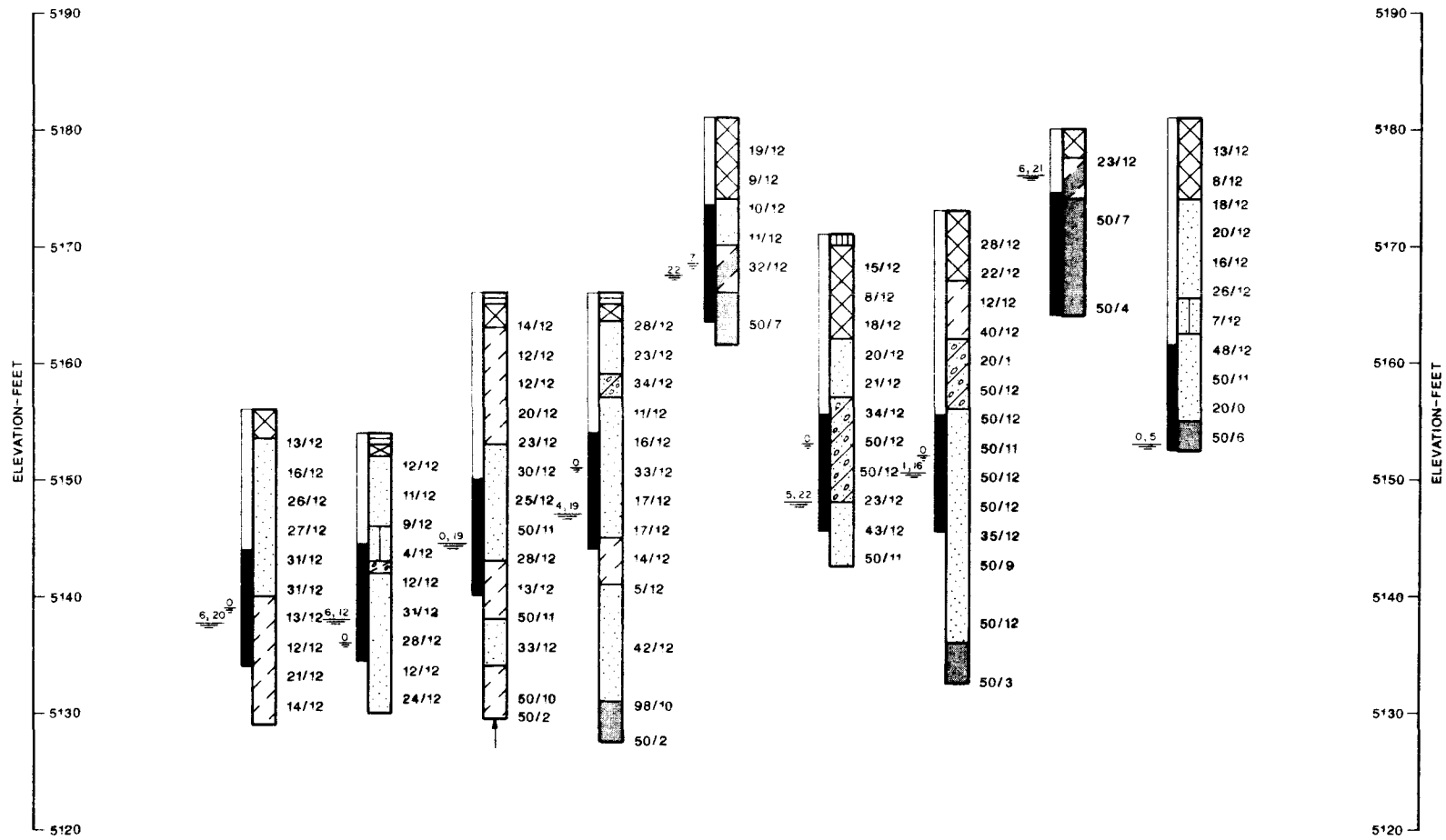


THE BASE MAP IS PROVIDED BY CONTINENTAL ENGINEERING.

NO. 5
PROJECT NO. 1
Date: 5/7/81

TRANSPORTATION STUDY AREA
23rd STREET VIADUCT
DENVER, COLORADO

MONITORING WELL ——— MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 ——— MONITORING WELL
 ELEVATION ——— 5156 5154 5166 5166 5181 5171 5173 5180 5181 ——— ELEVATION



FOR LEGEND AND NOTES, SEE FIGURE 4.

Job No. :	22375	SUMMARY LOGS OF MONITORING WELLS 23RD STREET VIADUCT DENVER, COLORADO
Prepared by :	G. W. D.	
Date :	3/7/90	

124835

L E G E N D



CONCRETE PAVEMENT



ASPHALT PAVEMENT



MAN-PLACED FILL, CLAY, SANDY, GRAVELLY, CLAYEY SAND AND SILTY SANDY GRAVEL, BITS OF BRICK, CONCRETE AND WOOD, PAVEMENT BASE COARSE, DRY TO MOIST, TAN, BROWN, BLACK (CL, SC, GM)



CLAY, MEDIUM TO STIFF, SILTY, SANDY TO SAND, MEDIUM DENSE TO DENSE, CLAYEY TO VERY SILTY, OCCASIONAL LENSES OF CLEAN SAND, INTERBEDDED, MOIST TO WET, TAN, BROWN, BLUE-GRAY (CL, SC, SM)



SAND, LOOSE, CLEAN TO SLIGHTLY SILTY, SLIGHTLY GRAVELLY, MOIST, TAN (SP)



SAND, MEDIUM DENSE TO VERY DENSE, CLEAN TO SLIGHTLY SILTY, SLIGHTLY GRAVELLY TO VERY GRAVELLY, OCCASIONAL LAYERS OF GRAVEL, OCCASIONAL LAYERS VERY SILTY AND CLAYEY, MOIST TO WET, TAN, GRAY, BROWN (SP, SM, GP)



GRAVEL, MEDIUM DENSE TO DENSE, SILTY, SANDY, OCCASIONAL LAYERS VERY SILTY AND CLAYEY, MOIST TO WET, GRAY, TAN (GP, GM)



WEATHERED CLAYSTONE, FIRM TO MEDIUM HARD, SLIGHTLY SANDY, MOIST, TAN TO BROWN



CLAYSTONE BEDROCK, HARD TO VERY HARD, SANDY TO VERY SANDY, LENSES OF WEAKLY CEMENTED SANDSTONE, RUST STAINS, DRY TO MOIST, BLUE-GRAY, GRAY, BROWN

13/12

INDICATES THAT 13 BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES WERE REQUIRED TO DRIVE A 2-INCH O.D. SPLIT SPOON OR A 3-INCH O.D. CALIFORNIA SAMPLER 12 INCHES



INDICATES WATER LEVEL AND NUMBER OF DAYS AFTER DRILLING THAT MEASUREMENT WAS TAKEN



INDICATES PRACTICAL RIG REFUSAL



INDICATES OPEN WELL PIEZOMETER INSTALLED IN TEST HOLE. SHADED AREA INDICATES SCREENED INTERVAL.

NOTES:

1. MONITORING WELLS WERE INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 22, 1990 WITH A 4 1/4-INCH HOLLOW STEM AUGER POWERED BY A CENTRAL MINE EQUIPMENT (CME 55) MODEL DRILL RIG.
2. BASE MAP PROVIDED BY CENTENNIAL ENGINEERING.
3. MONITORING WELLS WERE APPROXIMATELY LOCATED IN THE FIELD FROM EXISTING STRUCTURES. MONITORING WELL ELEVATIONS WERE DETERMINED BY FRASIER ENGINEERING.
4. MONITORING WELLS MW-5 AND MW-8 WERE DRY AT THE TIME OF DRILLING.
5. WATER LEVEL READINGS SHOWN ON THE LOGS WERE MADE AT THE TIME AND UNDER CONDITIONS INDICATED. FLUCTUATIONS IN THE WATER LEVELS MAY OCCUR WITH TIME.
6. THE LINES BETWEEN MATERIALS SHOWN ON THE LOGS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES AND THE TRANSITIONS MAY BE GRADUAL.
7. MONITORING WELL LOGS IN THIS REPORT ARE SUBJECT TO LIMITATIONS, EXPLANATIONS AND CONCLUSIONS OF THIS REPORT.
8. MONITORING WELL LOGS SUMMARIZE FINDINGS RELIED ON IN FORMULATING THE DESIGN CRITERIA PRESENTED IN THIS REPORT. THE EXPLORATIONS WERE NOT MADE TO DEFINE CONDITIONS FOR CONSTRUCTION NOR IS THE INFORMATION PRESENTED HEREIN FOR THAT PURPOSE.

Job No. : 22375

Prepared by: G.W.D.

Date: 3/7/90

LEGEND AND NOTES

23RD STREET VIADUCT
DENVER, COLORADO



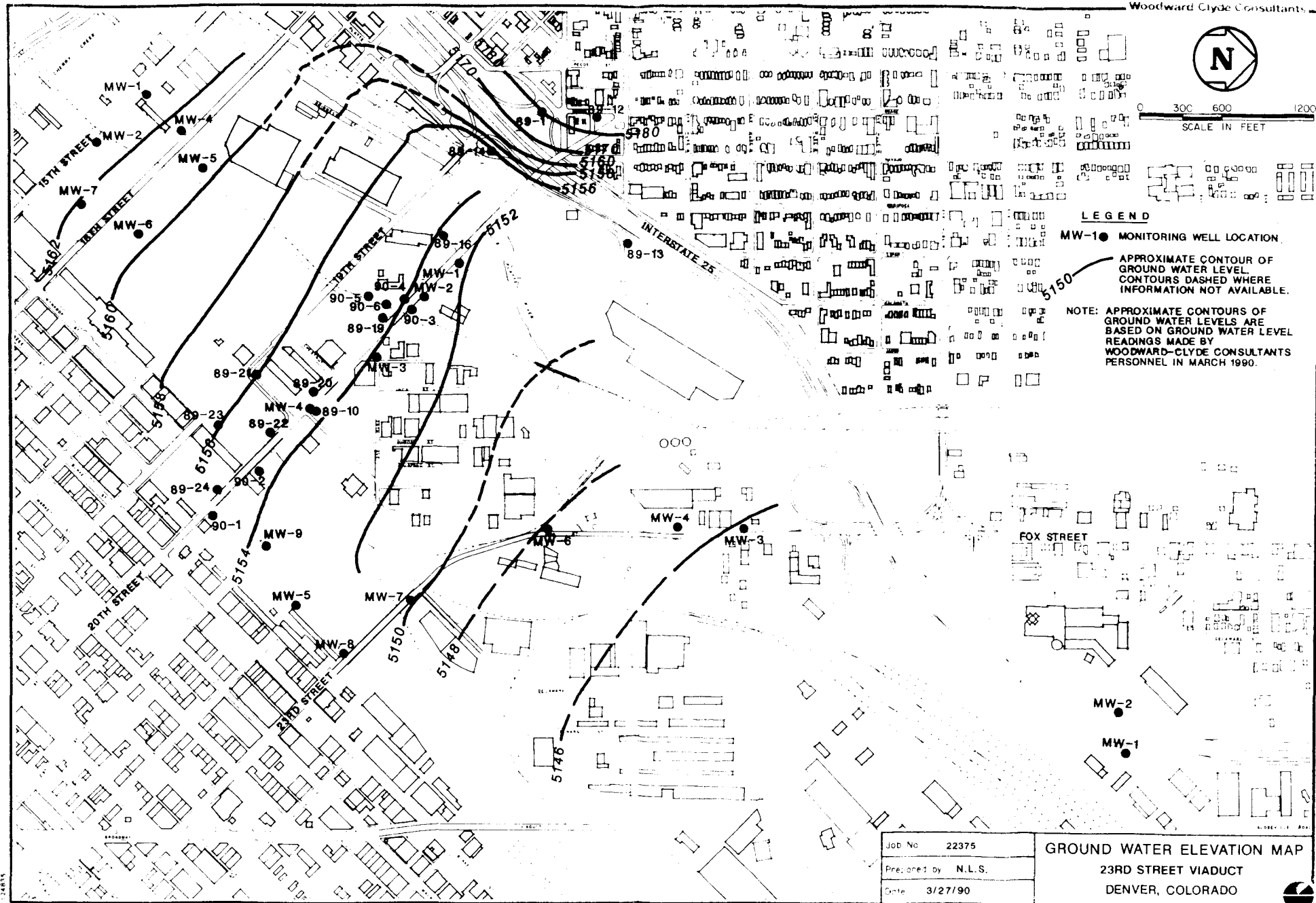
0 300 600 1200
SCALE IN FEET

LEGEND

MW-● MONITORING WELL LOCATION.

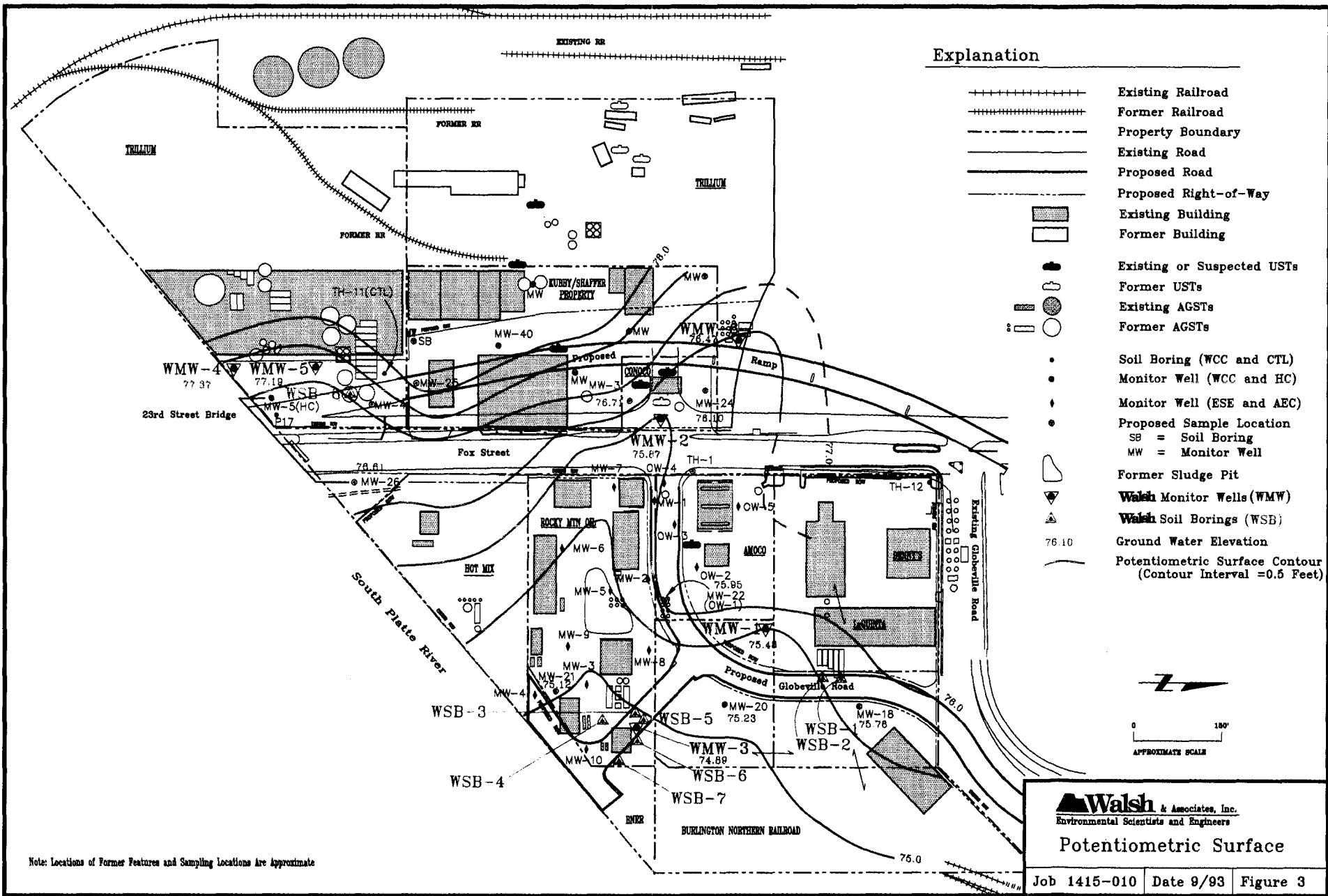
— APPROXIMATE CONTOUR OF GROUND WATER LEVEL.
--- CONTOURS DASHED WHERE INFORMATION NOT AVAILABLE.

NOTE: APPROXIMATE CONTOURS OF GROUND WATER LEVELS ARE BASED ON GROUND WATER LEVEL READINGS MADE BY WOODWARD-CLYDE CONSULTANTS PERSONNEL IN MARCH 1990.



Job No	22375
Prepared by	N.L.S.
Date	3/27/90


GROUND WATER ELEVATION MAP
23RD STREET VIADUCT
DENVER, COLORADO

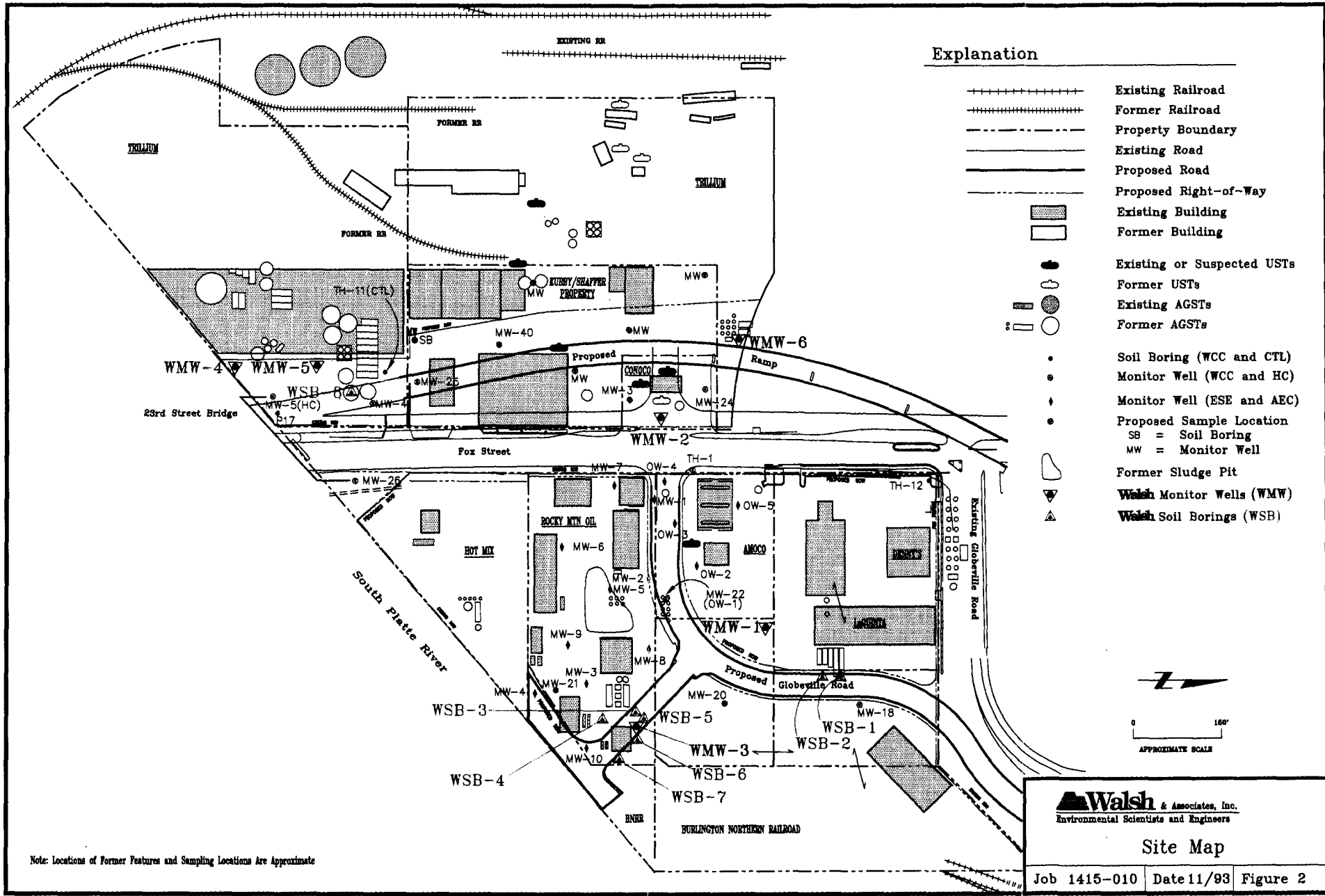


Explanation

- Existing Railroad
- Former Railroad
- - - - - Property Boundary
- ===== Existing Road
- ===== Proposed Road
- - - - - Proposed Right-of-Way
- ▨ Existing Building
- Former Building
- Existing or Suspected USTs
- Former USTs
- Existing AGSTs
- Former AGSTs
- Soil Boring (WCC and CTL)
- Monitor Well (WCC and HC)
- Monitor Well (ESE and AEC)
- Proposed Sample Location
- SB = Soil Boring
- MW = Monitor Well
- Former Sludge Pit
- ▼ Wash Monitor Wells (WMW)
- ▲ Wash Soil Borings (WSB)
- 76.10 Ground Water Elevation
- Potentiometric Surface Contour (Contour Interval =0.5 Feet)

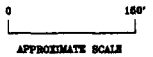
Note: Locations of Former Features and Sampling Locations are Approximate


 Environmental Scientists and Engineers
Potentiometric Surface
 Job 1415-010 Date 9/93 Figure 3



Explanation

- Existing Railroad
- Former Railroad
- - - - - Property Boundary
- Existing Road
- Proposed Road
- - - - - Proposed Right-of-Way
- ▨ Existing Building
- ▭ Former Building
- Existing or Suspected USTs
- Former USTs
- Existing AGSTs
- Former AGSTs
- Soil Boring (WCC and CTL)
- Monitor Well (WCC and HC)
- Monitor Well (ESE and AEC)
- Proposed Sample Location
- SB = Soil Boring
- MW = Monitor Well
- ◁ Former Sludge Pit
- ▼ Walsh Monitor Wells (WMW)
- ▲ Walsh Soil Borings (WSB)



Walsh & Associates, Inc.
Environmental Scientists and Engineers

Site Map

Job 1415-010 Date 11/93 Figure 2

Note: Locations of Former Features and Sampling Locations Are Approximate