Appendix 1: Summaries of TracerTight® Evaluations

Summaries of independent evaluations of the TracerTight® release detection method performed by Ken Wilcox Associates and Control Strategies Engineering

Results of U.S. EPA Standard Evaluation

Nonvolumetric Tank Tightness Testing Method

This form tells whether the tank tightness testing method described below complies with the performance requirements of the federal underground storage tank regulation. The evaluation was conducted by the equipment manufacturer or a consultant to the manufacturer according to the U.S. EPA's "Standard Test Procedure for Evaluating Leak Detection Methods: Nonvolumetric Tank Tightness Testing Methods." The full evaluation report also includes a form describing the method and a form summarizing the test data.

Tank owners using this leak detection system should keep this form on file to prove compliance with the federal regulations. Tank owners should check with State and local agencies to make sure this form satisfies their requirements.

Method Description

Name: Tracer Research Corporation

Vendor: Tracer Research Corporation
3855 North Business Center Drive
(street address)

Tucson	Arizona	85705	(602) 888-9400
(city)	(state)	(zip)	(phone)

Evaluation Results

This method, which declares a tank to be leaking when a threshold amount of Tracer chemical is detected as a vapor in the soil outside the tank has an estimated probability of false alarms [P(FA)] of 2.9 % based on the test results of 1 false alarms out of 34 tests. A 95% confidence interval for P(FA) is from

0 to 8.5 %.

The corresponding probability of detection [P(D)] of a 0.005 gallon per hour leak is 97.1 % based on the test results of 33 detections out of 34 simulated leak tests. A 95% confidence interval for P(D) is from 91.5 to 100 %.

Does this method use additional modes of leak detection? ☐ Yes ☒ No If Yes, complete additional evaluation results on page 3 of this form.

Based on the results above, and on page 3 if applicable, this method ☒ does ☐ does not meet the federal performance standards established by the U.S. Environmental Protection Agency (0.10 gallon per hour at P(D) of 95% and P(FA) of 5%).

Test Conditions During Evaluation

The evaluation testing was conducted in a varying size gallon ☒ steel ☒ fiberglass tank that was ____ inches in diameter and ____ inches long, installed in _____ backfill.

The ground-water level was varying inches above the bottom of the tank.

Nonvolumetric TTT Method Tracer Tight (TM)
Version

Test Conditions During Evaluation (continued)

The tests were conducted with the tank varying percent full.

The temperature difference between product added to fill the tank and product already in the tank ranged from N/A °F to N/A °F, with a standard deviation of N/A °F.

The product used in the evaluation was varying gasoline, diesel, jet fuel and heating oil.

This method may be affected by other sources of interference. List these interferences below and give the ranges of conditions under which the evaluation was done. (Check None if not applicable.)

☐ None

Interferences	Range of Test Conditions

Limitations on the Results

- The performance has not been substantially changed.
- The vendor's instructions for using the method are followed.
- The tank contains a product identified on the method description form.
- The tank capacity is ___ gallons or smaller.
- The difference between added and in-tank product temperatures is no greater than + or - ____degrees Fahrenheit.

☐ Check if applicable:
Temperature is not a factor because Tracer detection outside of tank does not depend on fuel temperature inside tank. Temperature does not affect the amount of Tracer released.

- The waiting time between the end of filling the test tank and the start of the test data collection is at least ___ hours.
- The waiting time between the end of "topping off" to final testing level and the start of the test data collection is at least ___ hours.
- The total data collection time for the test is at least ___ hours.
- The product volume in the tank during testing is 0-100 % full.
- This method ☐ can ☐ cannot be used if the ground-water level is above the bottom of the tank.

Other limitations specified by the vendor or determined during testing:

1. After Tracer chemical is added, you must wait at least 14 days to collect samples from vapor probes. 2 Alternative approaches must be used if top of tank is under water. These approaches are available through Tracer Research Corp.

Nonvolumetric TTT Method Tracer Tight (TM)
Version_____

> **Safety Disclaimer: This test procedure only addresses the issue of the method's ability to detect leaks. It does not test the equipment for safety hazards.**

Additional Evaluation Results (if applicable)

This method, which declares a tank to be leaking when_____ has an estimated probability of false alarms [P(FA)] of ___% based on the test results of ___ false alarms out of _____ tests. **Note:** A perfect score during testing does not mean that the method is perfect. Based on the observed results, a 95% confidence interval for P(FA) is from 0 to _____ %.

The corresponding probability of detection [P(D)] of a _____ gallon per hour leak is _____% based on the test results of _____ detections out of _____ simulated leak tests. **Note:** A perfect score during testing does not mean that the method is perfect. Based on the observed results, a 95% confidence interval for P(D) is from 0 to _____%.

> **Water detection mode (if applicable)**

Using a false alarm rate of 5%, the *minimum water level* that the water sensor can detect with a 95% probability of detection is N/A inches.

Using a false alarm rate of 5%, the *minimum change in water level* that the water sensor can detect with a 95% probability of detection is N/A inches.

Based on the minimum water level and change in water level that the water sensor can detect with a false alarm rate of 5% and a 95% probability of detection, the *minimum time* for the system to detect an increase in water level at an incursion rate of 0.10 gallon per hour is N/A minutes in a N/A -gallon tank.

Certification of Results

I certify that the nonvolumetric tank tightness testing method was installed and operated according to the vendor's instruction. I also certify that the evaluation was performed according to the standard EPA test procedure to nonvolumetric tank tightness testing methods and that the results presented above are those obtained during the evaluation.

H. Kendall Wilcox	Ken Wilcox Associates
(printed name)	(organization performing evaluation)
H. Kendall Wilcox	Blue Springs, Missouri 64015
(signature)	(city, state, zip)
October 4. 1990	(816) 229-0860
(date)	(phone number)

Nonvolumetric Tank Tightness Testing Method

This form tells whether the tank tightness testing method described below complies with the performance requirements of the federal underground storage tank regulation. The evaluation was conducted by the equipment manufacturer or a consultant to the manufacturer according to the U.S. EPA "Standard Test Procedure for Evaluating Leak Detection Methods: Nonvolumetric Tank Tightness Testing Methods." The full evaluation report also includes a form describing the method and a form summarizing the test data.

Tank owners using this leak detection system should keep this form on file to prove compliance with the federal regulations. Tank owners should check with State and local agencies to make sure this form satisfies their requirements.

Method Description

Name: Tracer Tight®

Version:

Vendor: Tracer Research Corporation

(address) 3755 North Business Center Drive

(city) Tucson (state) Arizona (zip) 85705 (phone) 602/888-9400

Evaluation Results

This method, which declares a tank to be leaking when tracer is detected outside the tank at concentrations greater than 3×10^{-5} times the tracer concentration in the tank has an estimated probability of false alarms [P(FA)] of a 0.0 % based on the test results of 0 false alarms out of 22 tests. A 95% confidence interval for P(FA) is from 0 % to 13 %

The corresponding probability of detection [P(D)] of a 0.05 gallon per hour leak is 100 % based on the test results of 45 detections out of 45 simulated leak tests. A 95% confidence interval for P(D) is from 92.4 % to 100 %

The corresponding probability of detection [P(D)] of a 0.1 gallon per hour leak is 100 % based on the test results of 93 detections out of 93 simulated leak tests. A 95% confidence interval for P(D) is from 96.2 % to 100 %

Does this method use additional modes of leak detection? ☒ Yes ☐ No If Yes, complete additional evaluation results on page 3 of this form.

Based on the results above, and on page 3 if applicable, this method ☒ does ☐ does not meet the federal performance standards established by the U.S. Environmental Protection Agency (0.10 gallon per hour at P(D) of 95% and P(FA) of 5%).

Test Conditions During Evaluation

The evaluation testing was conducted outside a 55 -gallon ☒ steel ☐ fiberglass tank that was 22 inches in diameter and 34 inches long, installed in silty clay native soil backfill.

The ground-water level was 0 inches above the bottom of the tank.

Test Conditions During Evaluation (continued)

The tests were conducted with the tank 38/0.0 percent full.

The temperature difference between product added to fill the tank and product already in the tank ranged from NA °F to NA °F,
with a standard deviation of NA °F.

The product used in the evaluation was regular leaded gasoline

This method may be affected by other sources of interference. List these interferences below and give the ranges of conditions under which the evaluation was done. (Check None if not applicable.)

☒ None

Interferences	Range of Test Conditions

Limitations on the Results

The performance estimates above are only valid when:

- The method has not been substantially changed.
- The vendors instructions for using the method are followed.
- The tank contains a product identified on the method description form.
- The tank capacity is NA gallons or smaller. ***NO SIZE LIMITATION***
- The difference between added and in-tank product temperatures is no greater than + or - NA degrees Fahrenheit.

☒ Check if applicable:

Temperature is not a factor because Tracer Tight is an external leak detection method

- The waiting time between the end of filling the test tank and the start of the test data colleciton is at least NA hours.
- The waiting time between the end of "topping off" to final testing level and the start of the test data collection is at least NA hours.
- The total data collection time for the test is at least NA hours.
- The product volume in the tank during testing is NA % full.
- This method ☒ can ☐ cannot be used if the ground-water level is above the bottom of the tank.

Other limitations specified by the vendor or determined during testing:

Soil must be permeable enough to yield at least 0.15 cfm of air through a 3/4" nominal diameter probe under a vacuum of 15" of Hg.

Nonvolumetric TTT Method Tracer Tight®
Version

>**Safety disclaimer: This test procedure only addresses the issue of the methods ability to detect leaks. It does not test the equipment for safety hazards.**

Additional Evaluation Results (if applicable)

This method, which declares a tank to be leaking when water ingress is detected has an estimated probability of false alarms [P(FA)] of N/A % based on the test results of false alarms out of N/A tests. Note: A perfect score during testing does not mean that the method is perfect. Based on the observed results, a 95% confidence interval for P(FA) is from 0 % to N/A %.

The corresponding probability of detetecton [P(D)] of a N/A gallon per hour leak is N/A % based on the test results of N/A detections out of N/A simulated leak tests. Note: A perfect score during testing does not mean that the method is perfect. Based on the observed results, a 95% confidence interval for P(D) is from N/A % to 100 %.

>**Water detection mode (if applicable)**

Using a false alarm rate of 0% the minimum water level that the water sensor can detect with a 100% probability of detection is 0.008 inches.

Using a false alarm rate of 5% the minimum change in water level that the water sensor can detect with a 95% probability of detection is 0.19 inches.

Based on the minimum water level and change in water level that the water sensor can detect with a false alarm rate of 5% and a 95% probability of detection, the minimum time for the system to detect an increase in water level at an incursion rate of 0.10 gallon per hour is 1836 minutes in a 75,000 - gallon tank.

Certification of Results

I certify that the nonvolumetric tank tightness testing method was installed and operated according the the vendors instructions. I also certify that the evaluation was performed according to the standard EPA test procedure for nonvolumetric tank tightness testing methods and that the results presented above are those obtained during the evaluation.

Curtis W. Bryant
(printed name)

Curtis W. Bryant
(signature)

May 20, 1992
(date)

Control Strategies Engineering
(organization performing evaluation)

12550 West Manville Road
Tucson, Arizona 85743
(city, state, zip)

(602) 682-8726
(phone number)

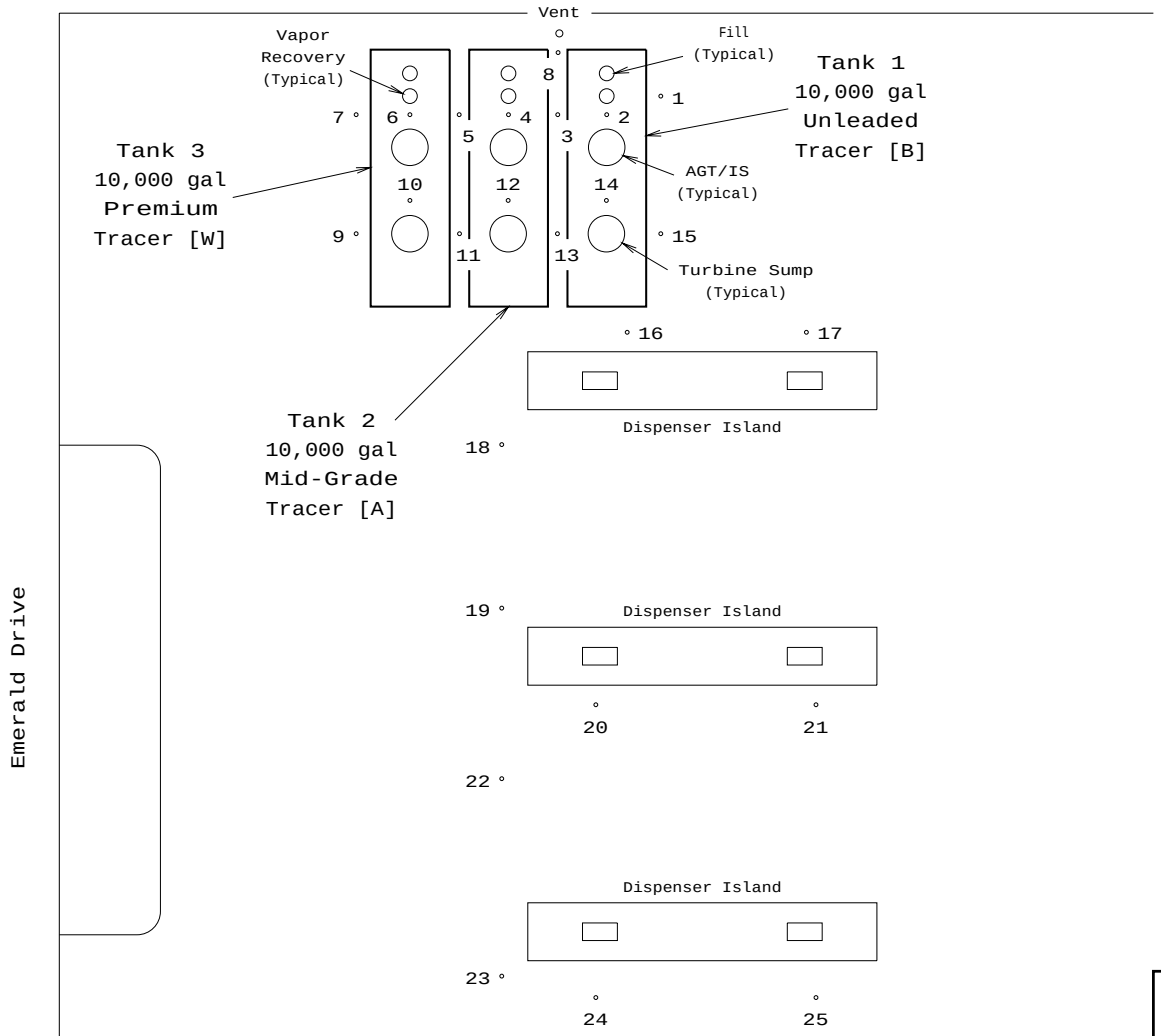
Appendix 2: Facility Maps and Tracer Distributions

Facility maps indicate the location of tanks, piping, sample probes and the distribution of tracer concentrations for all initial facility tests.

The following items about the maps should be noted:

- The maps are not as built drawings. Locations of subsurface utilities were determined as completely as possible without excavation. In many cases exact connections along the tank top could not be determined and are not shown in detail.
- When *typ.* is listed on the diagram related to a fill and vapor recovery, for example, other tanks at the site have fill and vapor recovery at the analogous location.
- Maps showing total volatile hydrocarbon concentrations (TVHC) are included for San Diego County and City of Temecula facilities but were not prepared for the Sacramento and Yolo county sites.

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location

N

0 10 20

f e e t

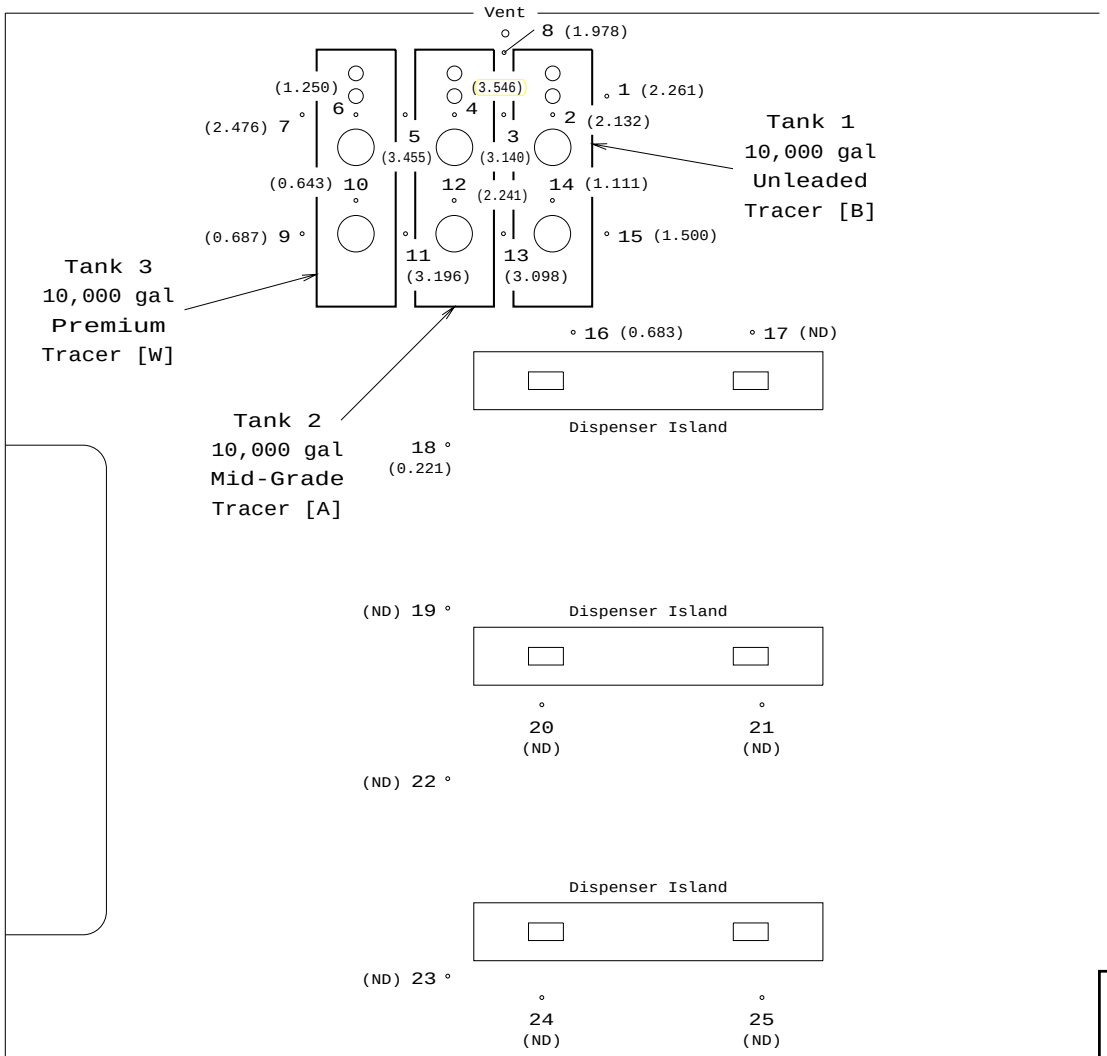
30665U-0000

Site SD 04

SAMPLING LOCATIONS

File:SD04-01 Size:A
Arc:3665SD04 Date:01-16-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(2.261)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

f e e t

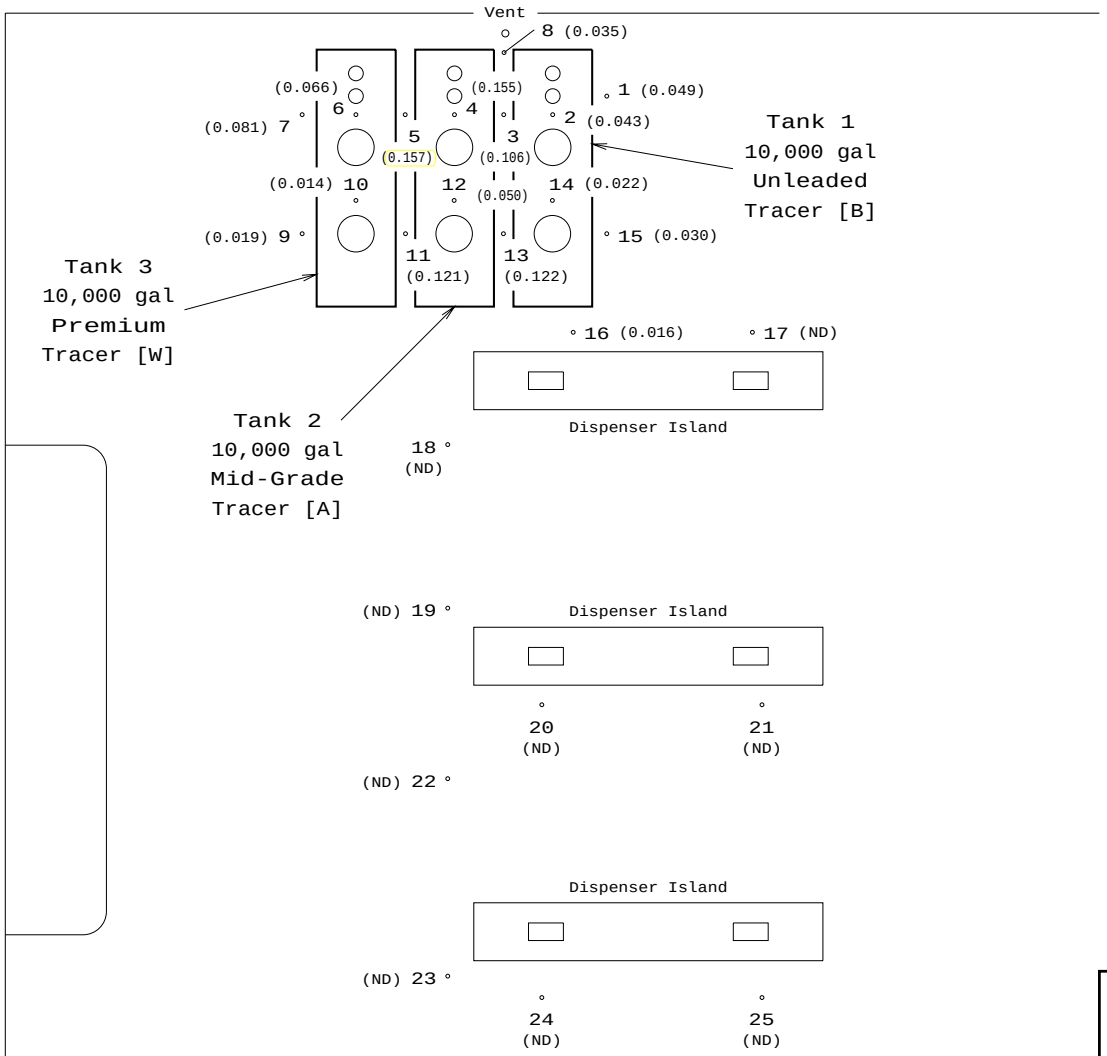
30665U-0000

Site SD 04

Tracer [A] Distribution

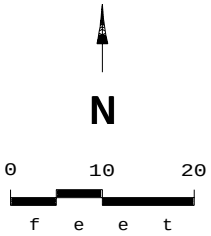
File:SD04-1A Size:A
Arc:3665SD04 Date:01-16-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(2.261)	Tracer W Sample Value (µg/L)
(ND)	Non Detect



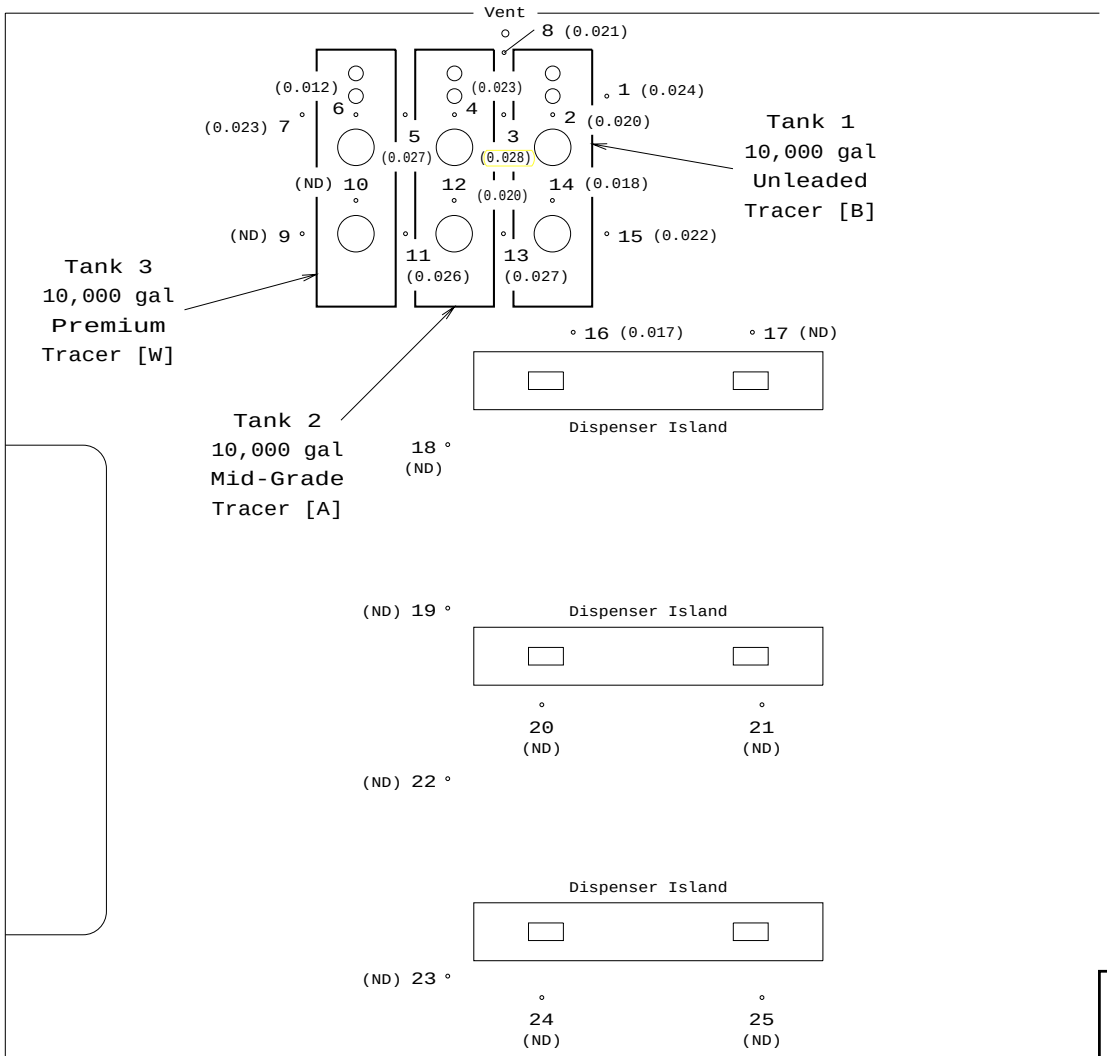
30665U-0000

Site SD 04

Tracer [W] Distribution

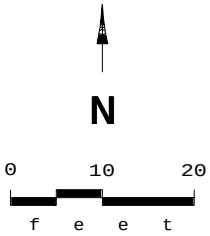
File:SD04-1B Size:A
Arc:3665SD04 Date:01-16-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(2.261)	Tracer B Sample Value (µg/L)
(ND)	Non Detect



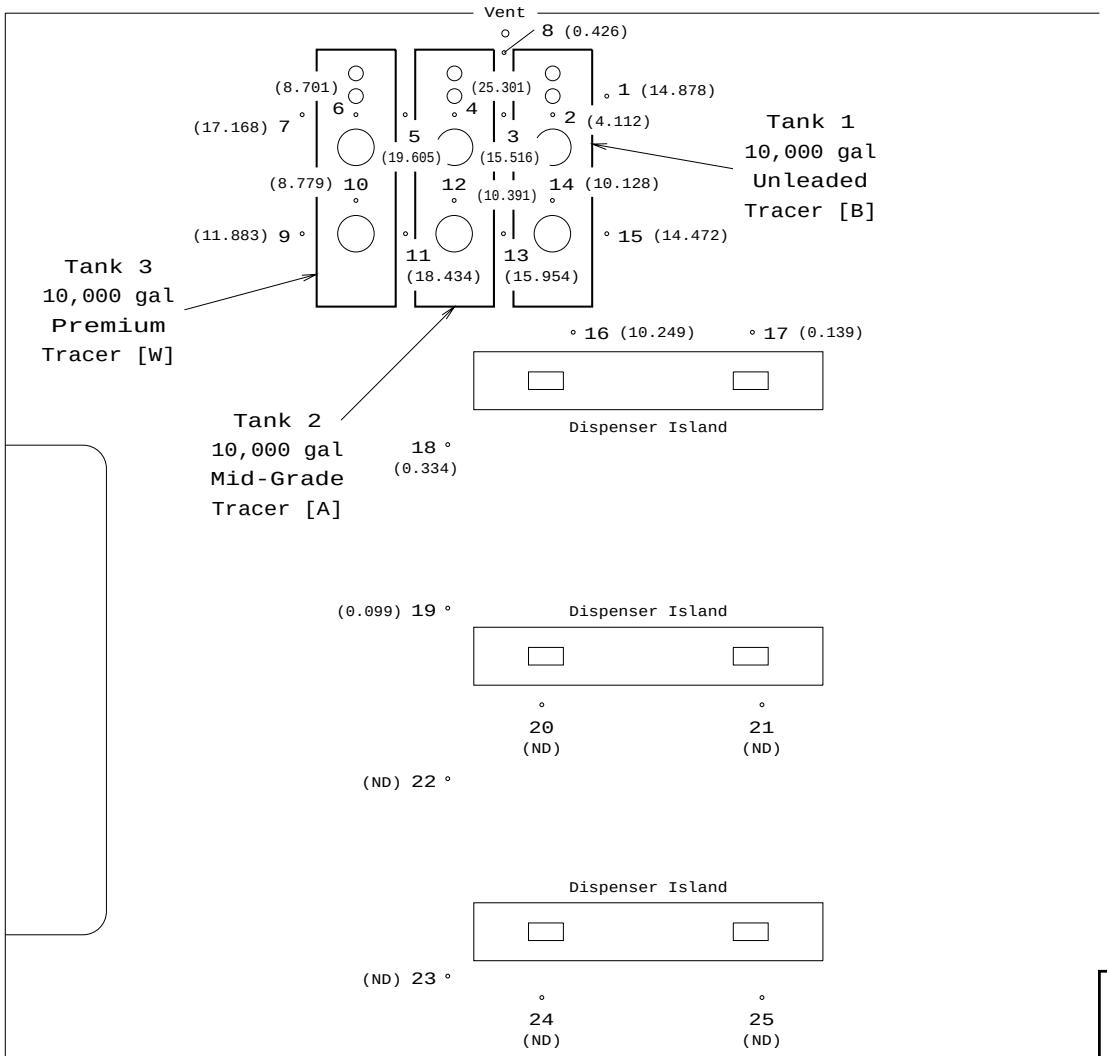
30665U-0000

Site SD 04

Tracer [B] Distribution

File:SD04-1C Size:A
Arc:3665SD04 Date:01-16-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(2.261)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 10 20

f e e t

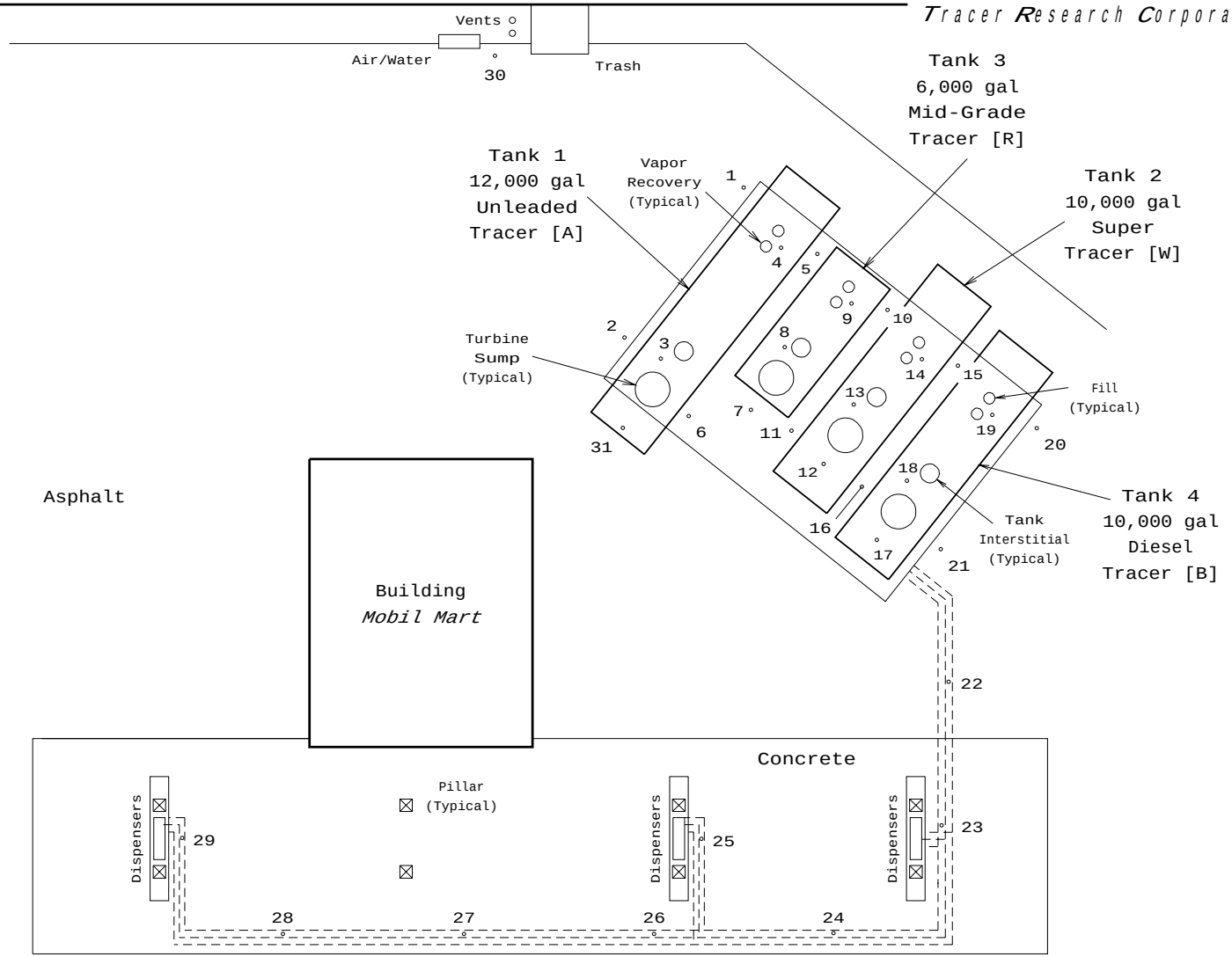
30665U-0000

Site SD 04

T V H C Distribution

File:SD04-1D Size:A
Arc:3665SD04 Date:01-16-02

Tracer Research Corporation



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N

0 9 18

f e e t

EXPLANATION

•1 Sampling Probe Location

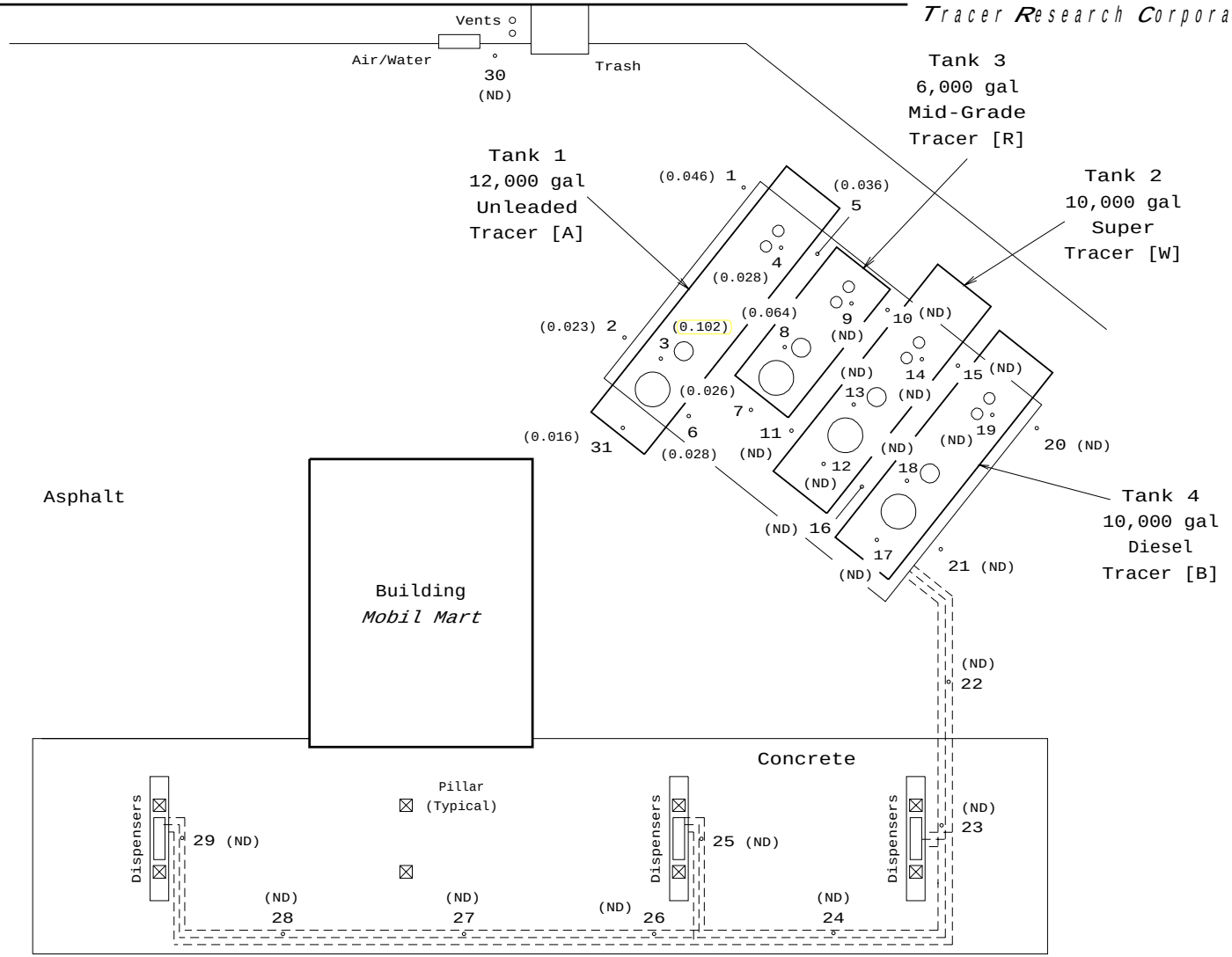
------ Approximate Pipeline Location

File:DA05-01 Size:A
Arc:3665DA05 Date:03-22-02

Site SD 05

SAMPLING LOCATIONS

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 9 18

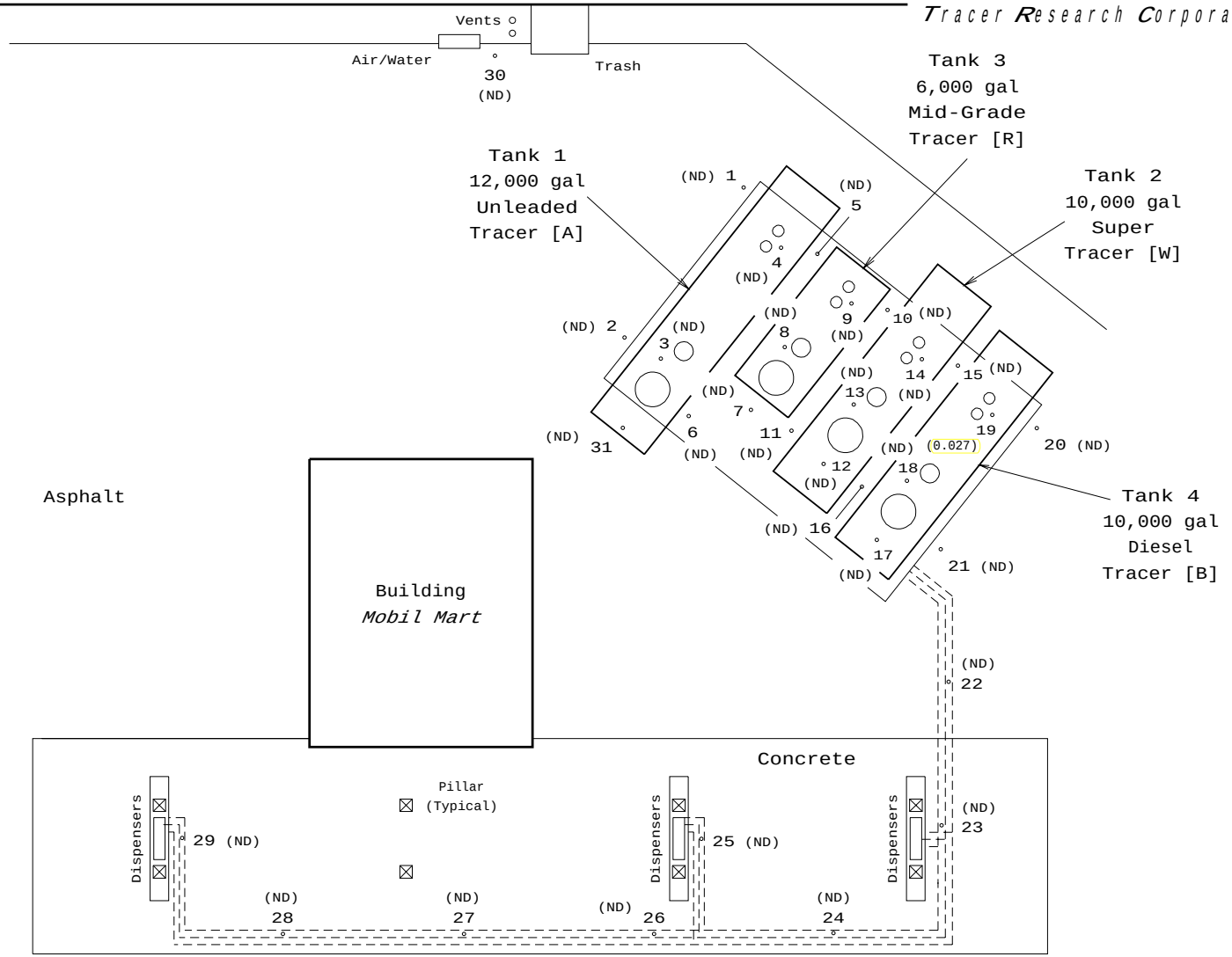
feet

File:DA05-1A Size:A
Arc:3665DA05 Date:03-22-02

Site SD 05

Tracer [A] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

0 9 18

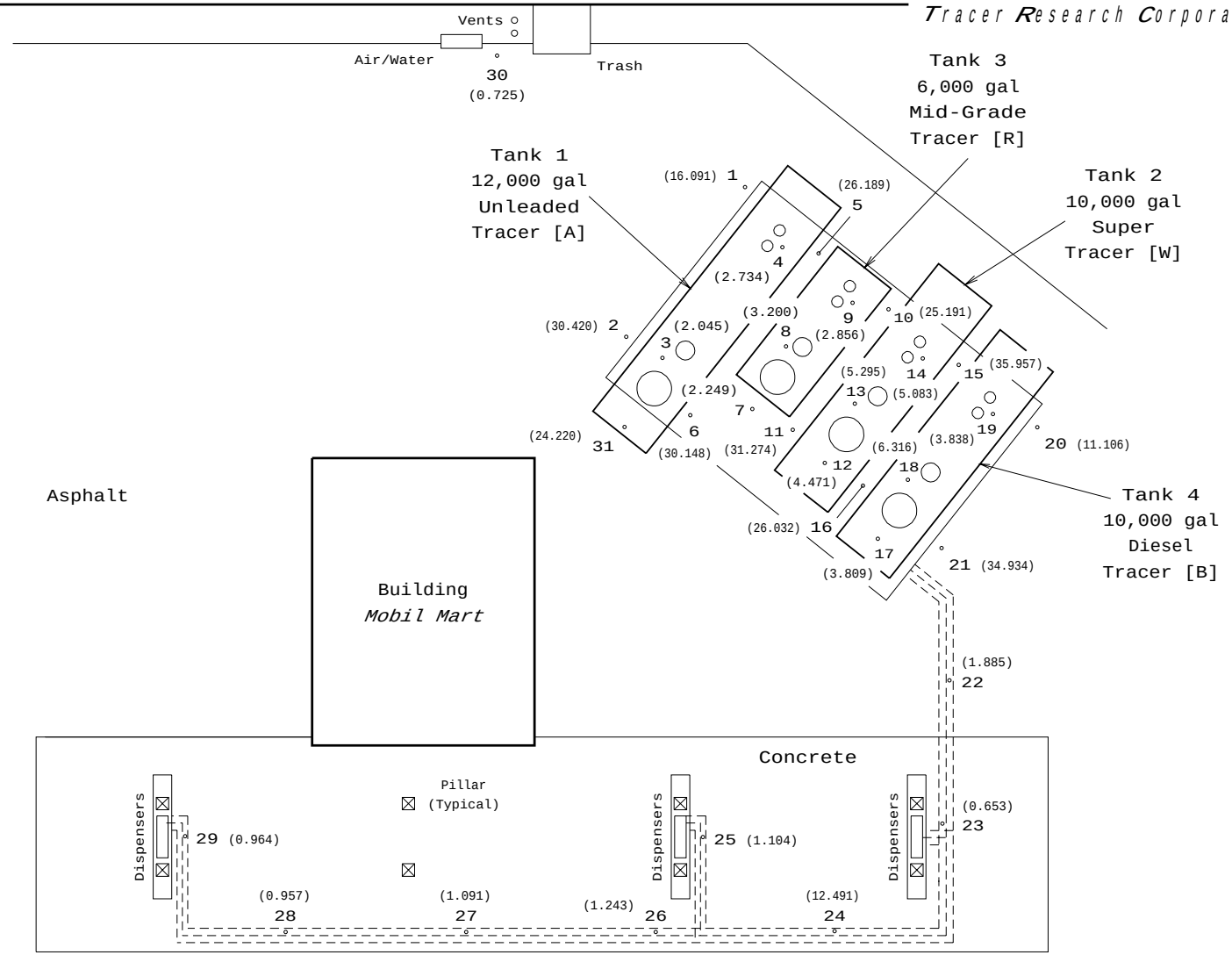
f e e t

File:DA05-1B Size:A
Arc:3665DA05 Date:03-22-02

Site SD 05

Tracer [B] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 9 18

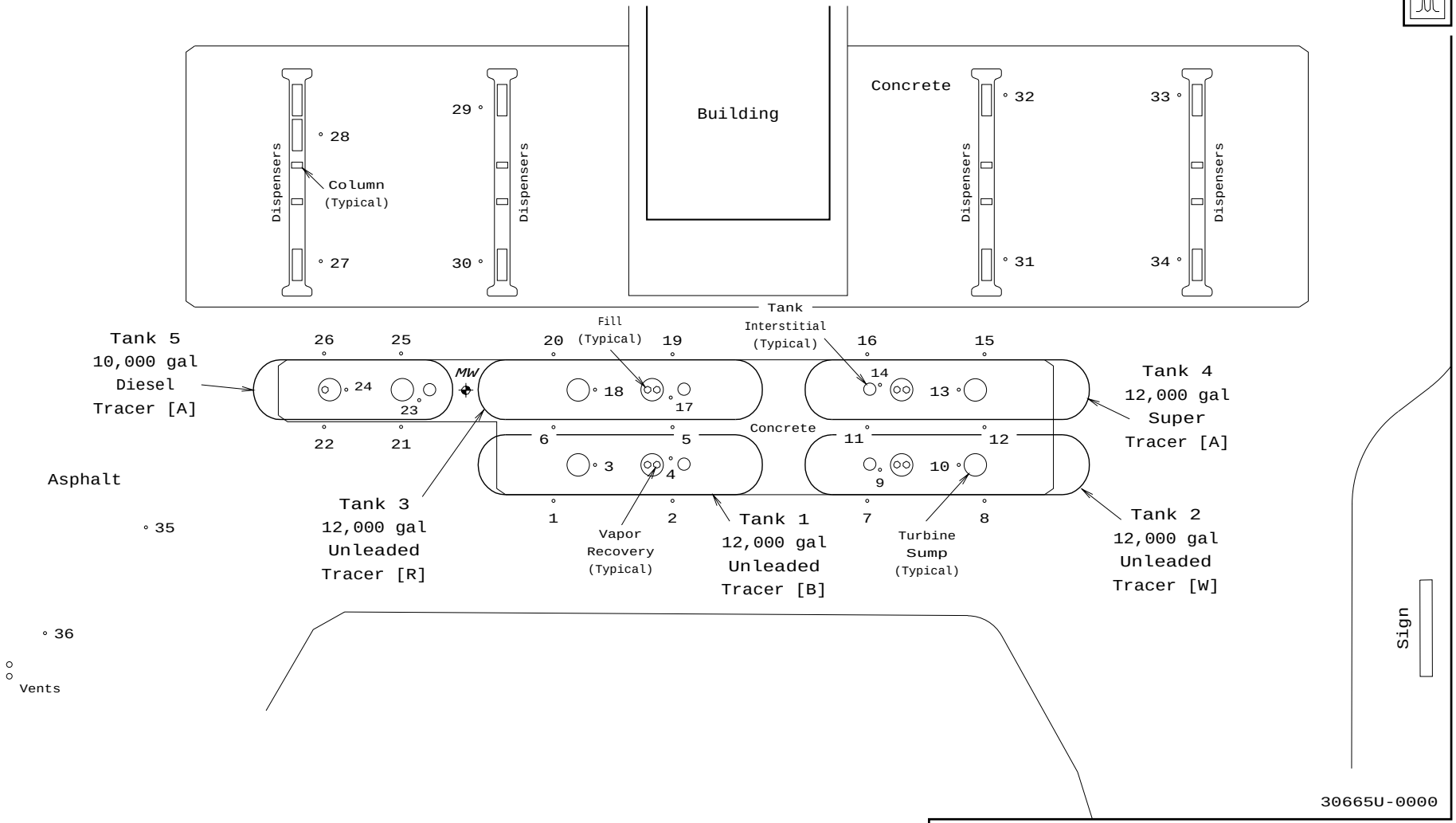
feet

File:DA05-1C Size:A
Arc:3665DA05 Date:03-22-02

Site SD 05

TVHC Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location

N

0 10 20

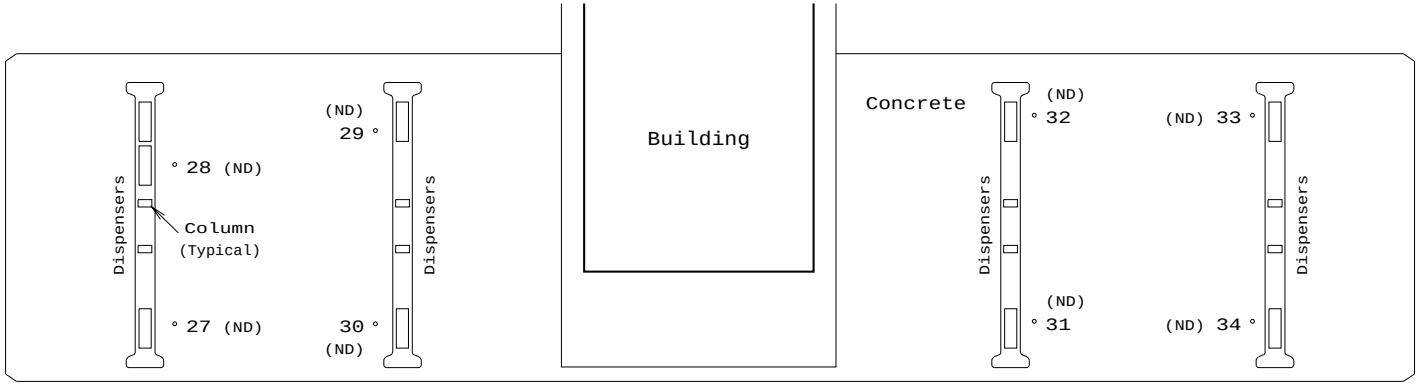
f e e t

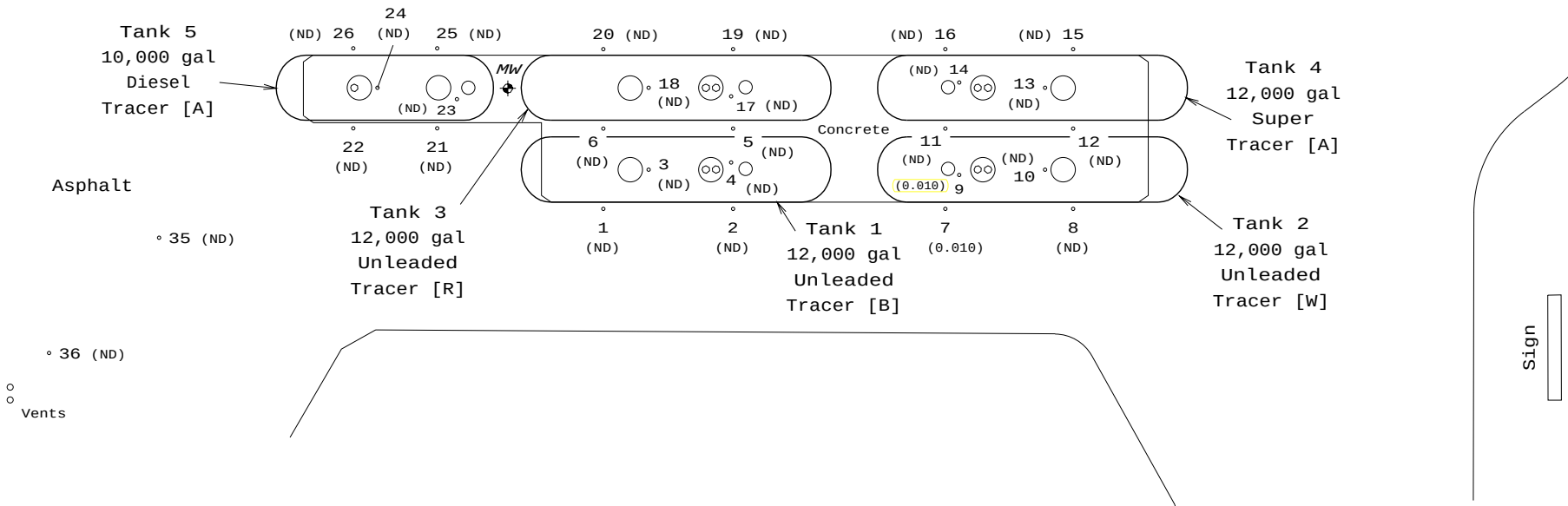
File:DA06-01 Size:A
Arc:3665DA06 Date:03-20-02

Site SD 06

SAMPLING LOCATIONS

Tracer Research Corporation





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EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

feet

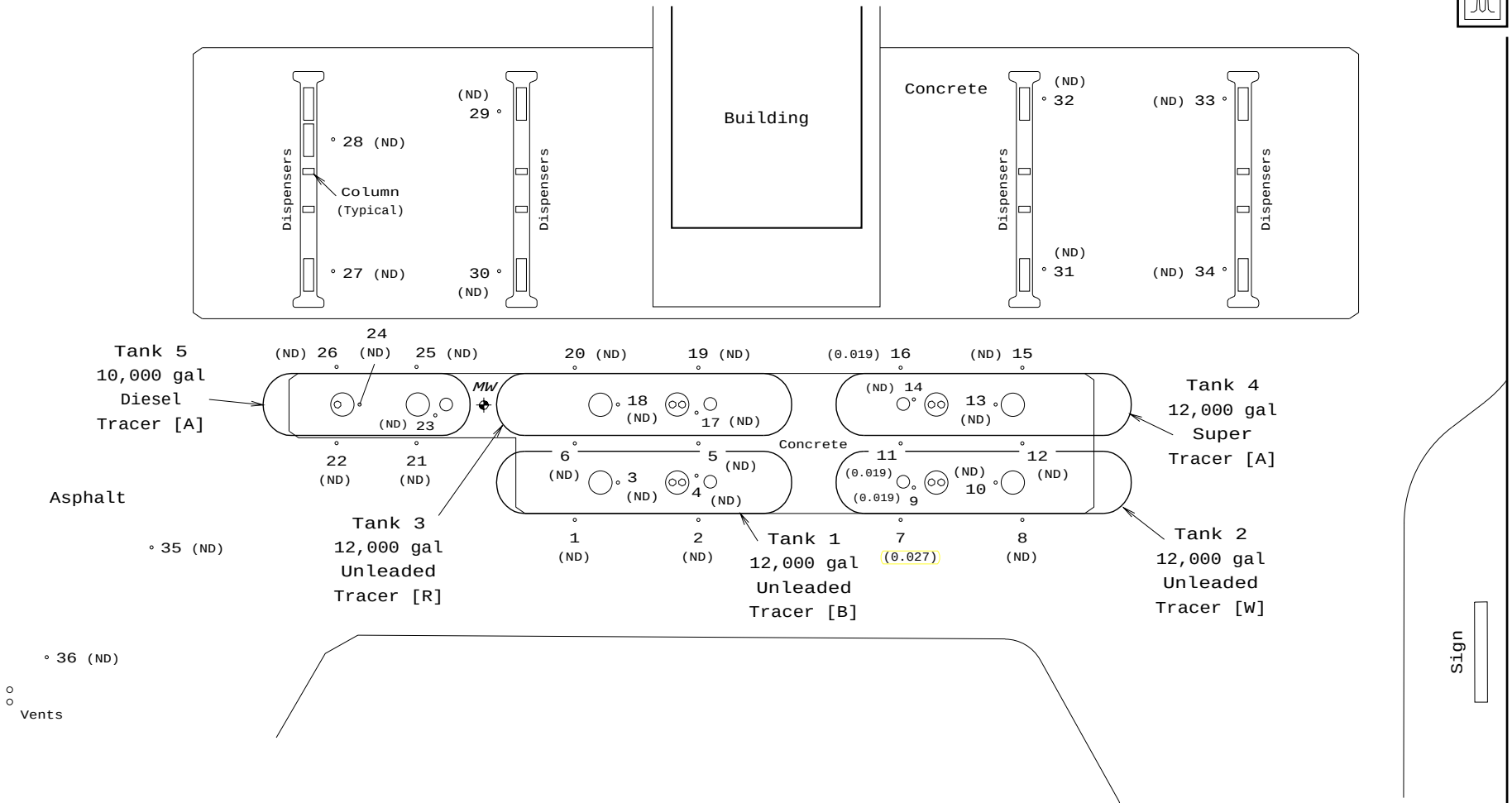
File:DA06-1A
Arc:3665DA06

Size:A
Date:03-20-02

Site SD 06

Tracer [B] Distribution

Tracer Research Corporation



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EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

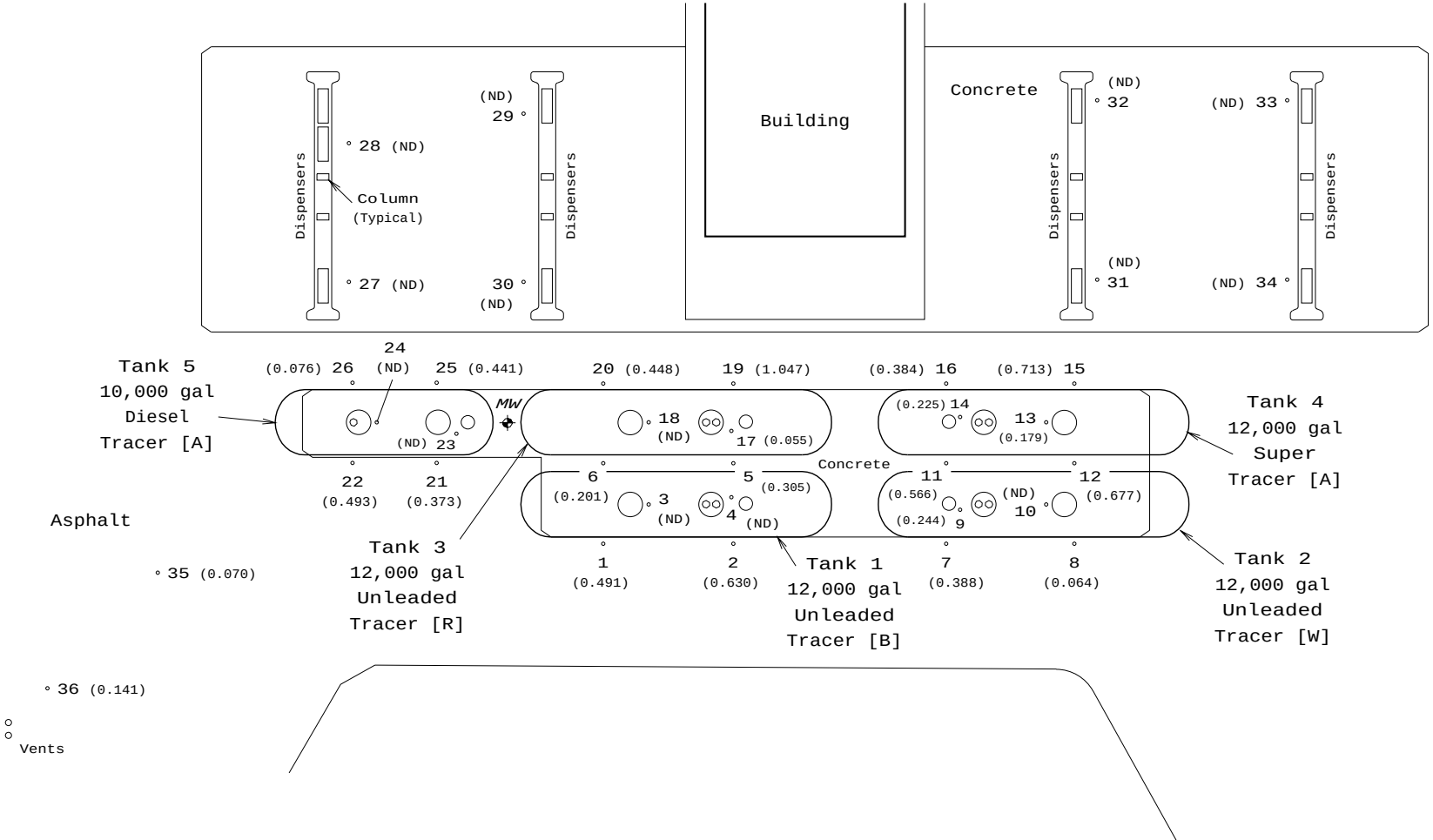
feet

File:DA06-1B Size:A
Arc:3665DA06 Date:03-20-02

Site SD 06

Tracer [W] Distribution

Tracer Research Corporation



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EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 10 20

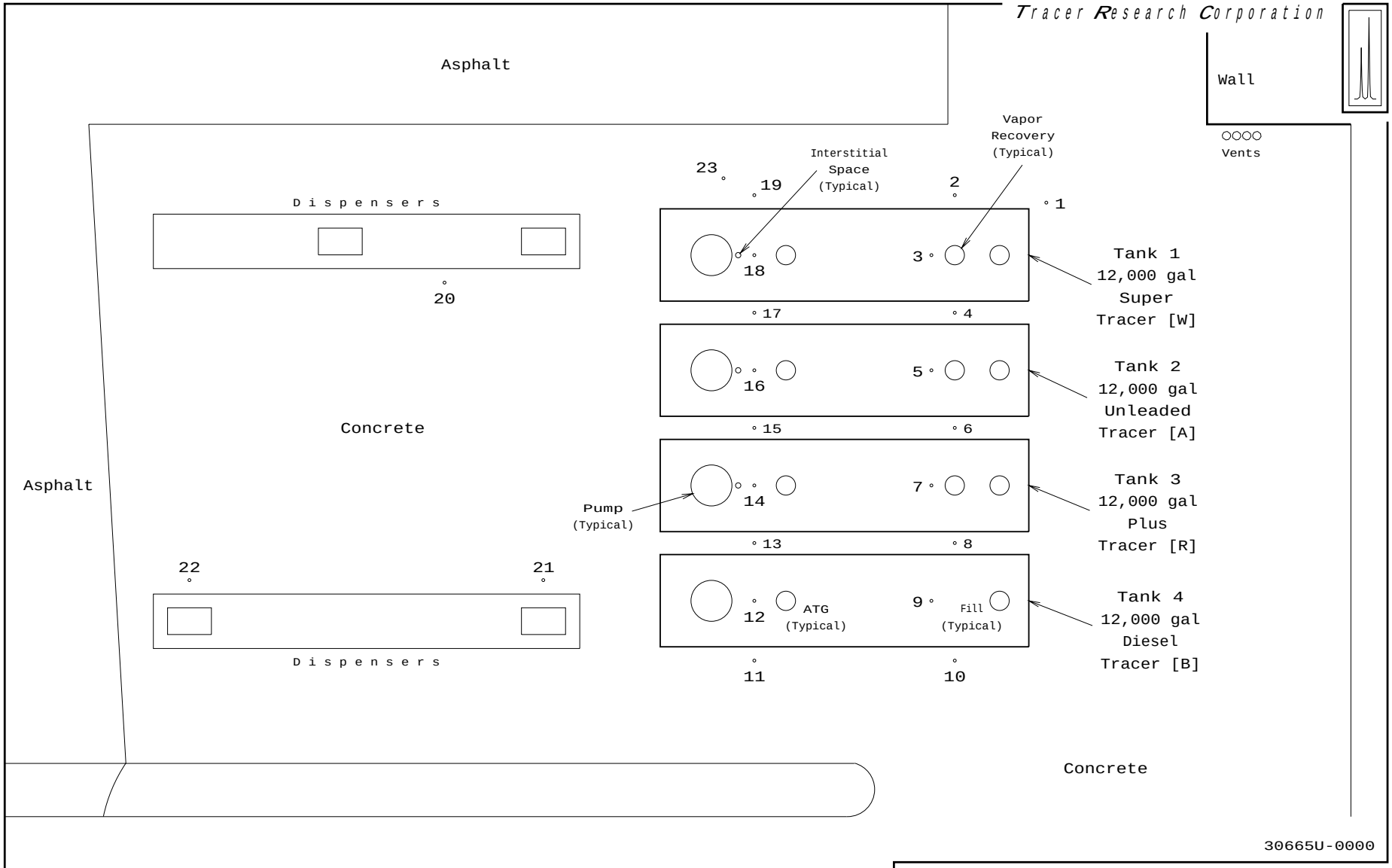
feet

File:DA06-1C Size:A
Arc:3665DA06 Date:03-20-02

Site SD 06

TVHC Distribution

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

File:SD12-01 Size:A
Arc:3665SD12 Date:02-12-02

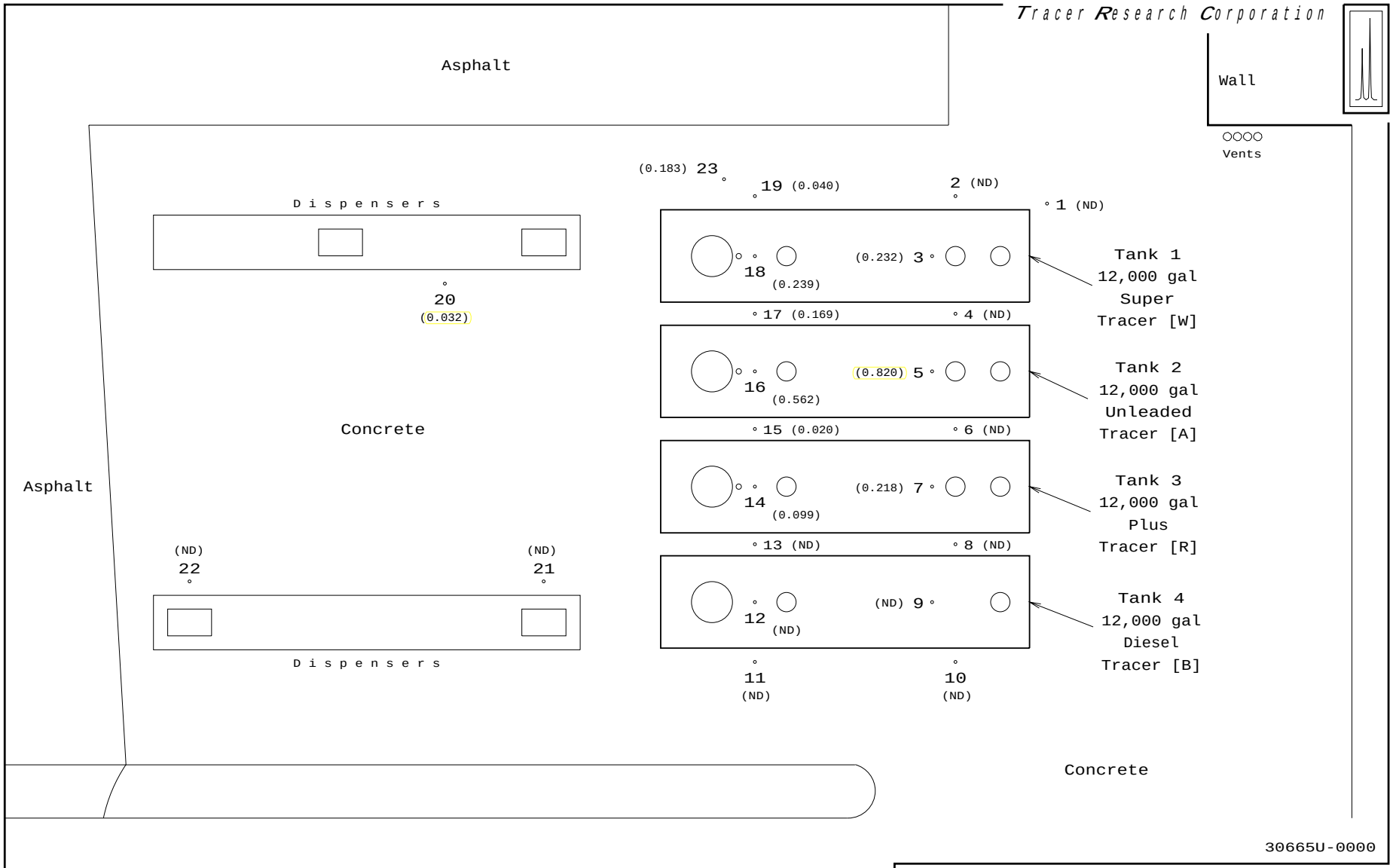
North

0 6 12
feet

Site SD 12

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

North

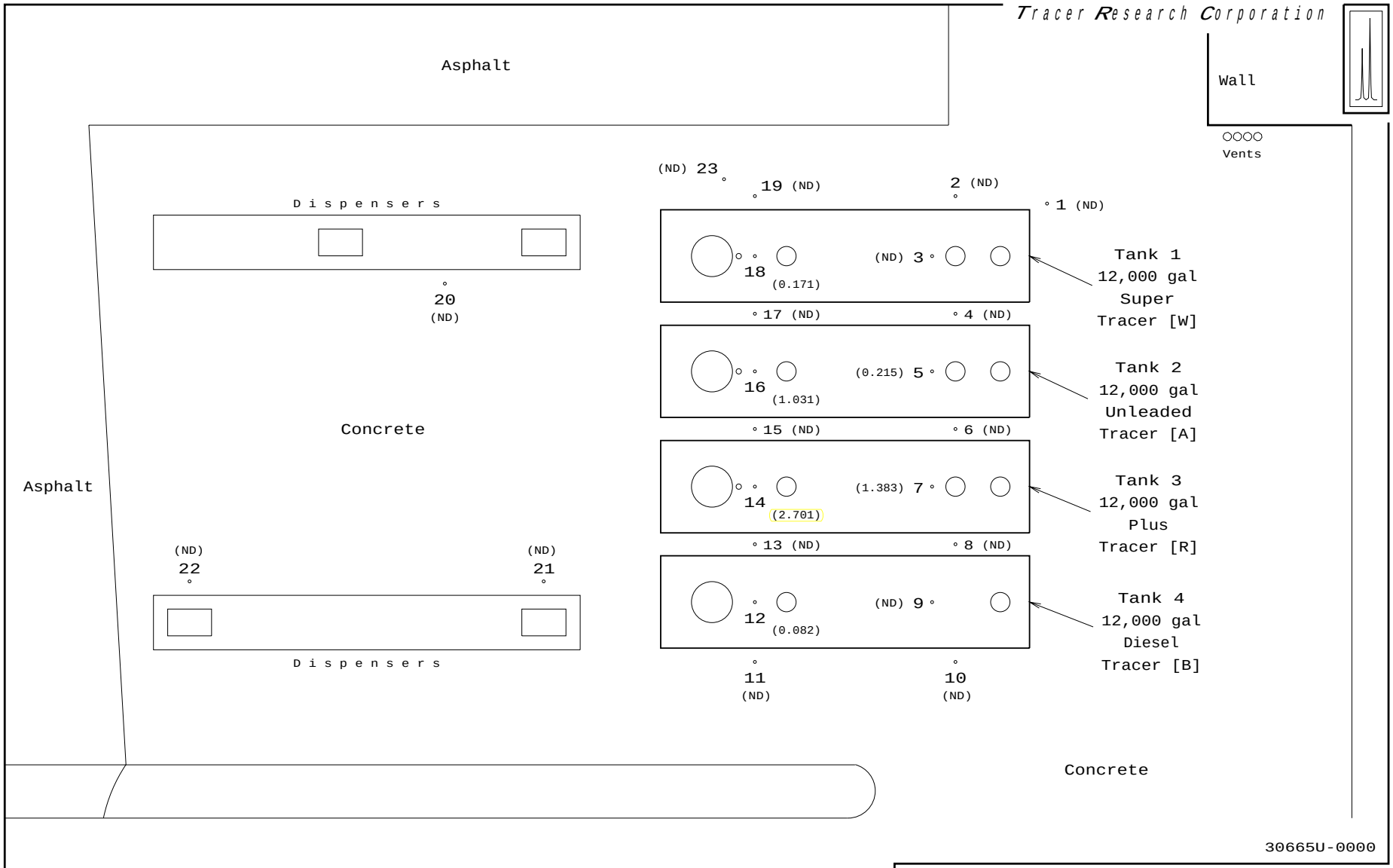
0 6 12
feet

File:SD12-1A Size:A
Arc:3665SD12 Date:02-12-02

Site SD 12

Tracer [A] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

North

0 6 12

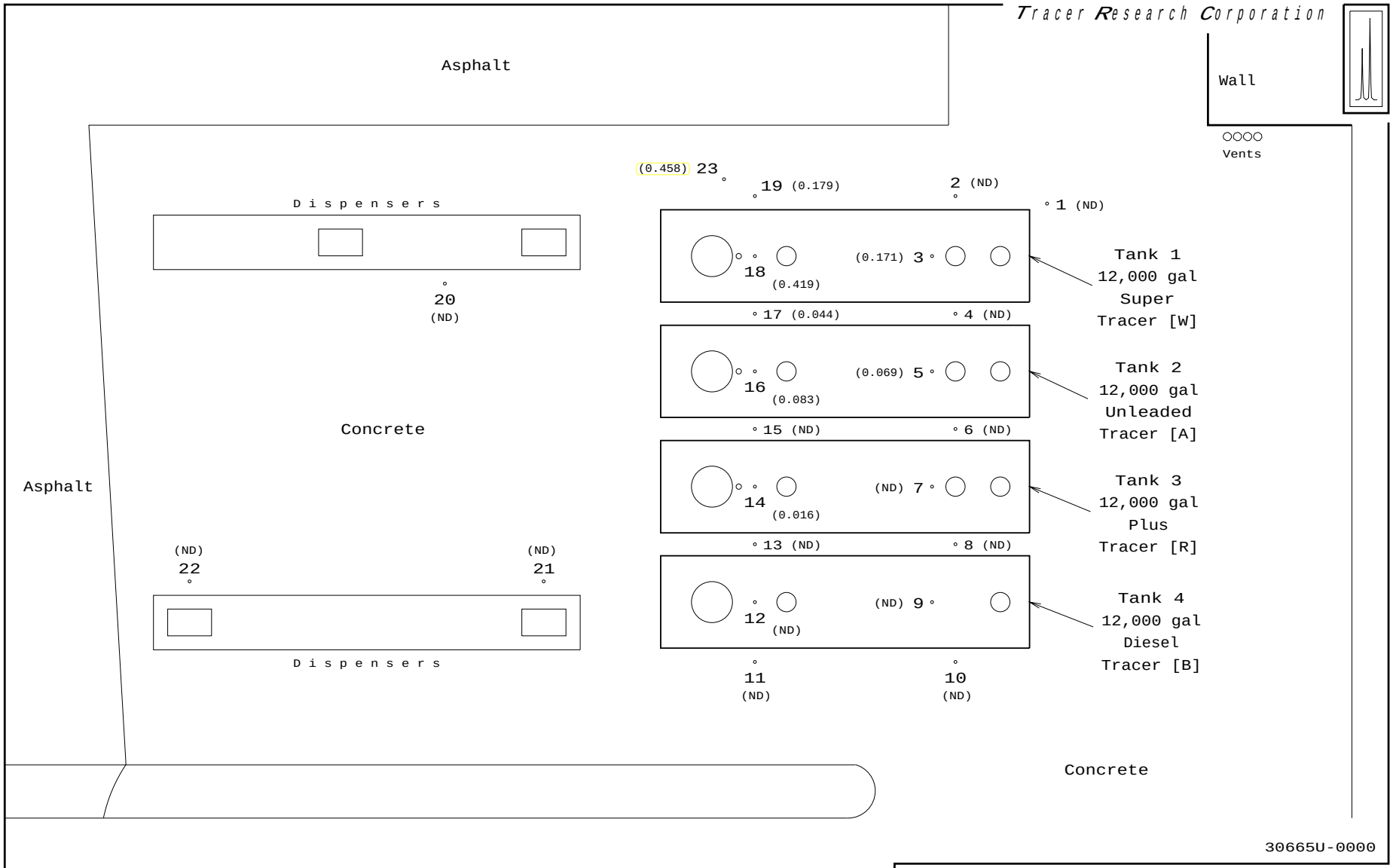
feet

File:SD12-1B Size:A
Arc:3665SD12 Date:02-12-02

Site SD 12

Tracer [R] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

North

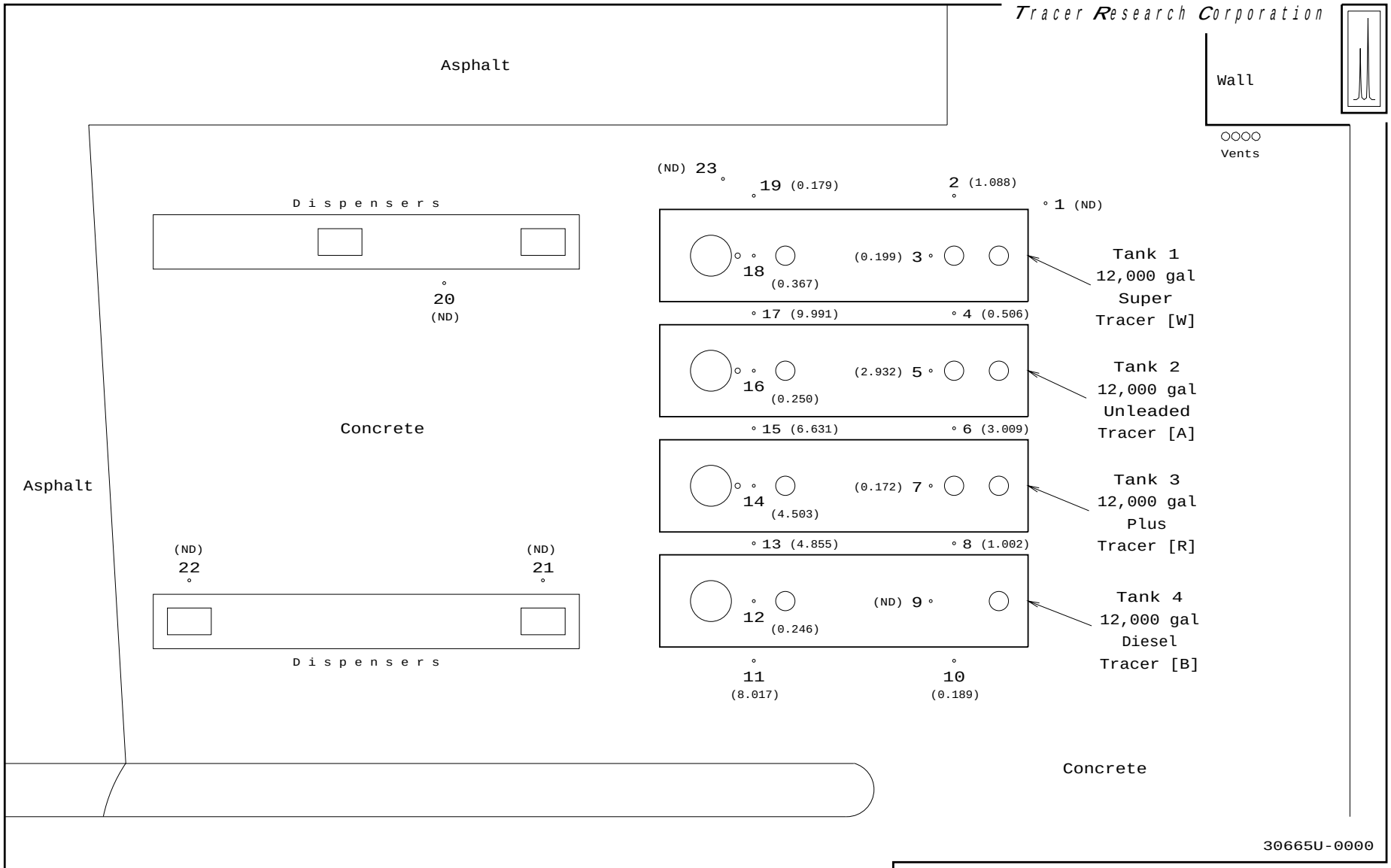
0 6 12
feet

File:SD12-1C Size:A
Arc:3665SD12 Date:02-12-02

Site SD 12

Tracer [W] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

North

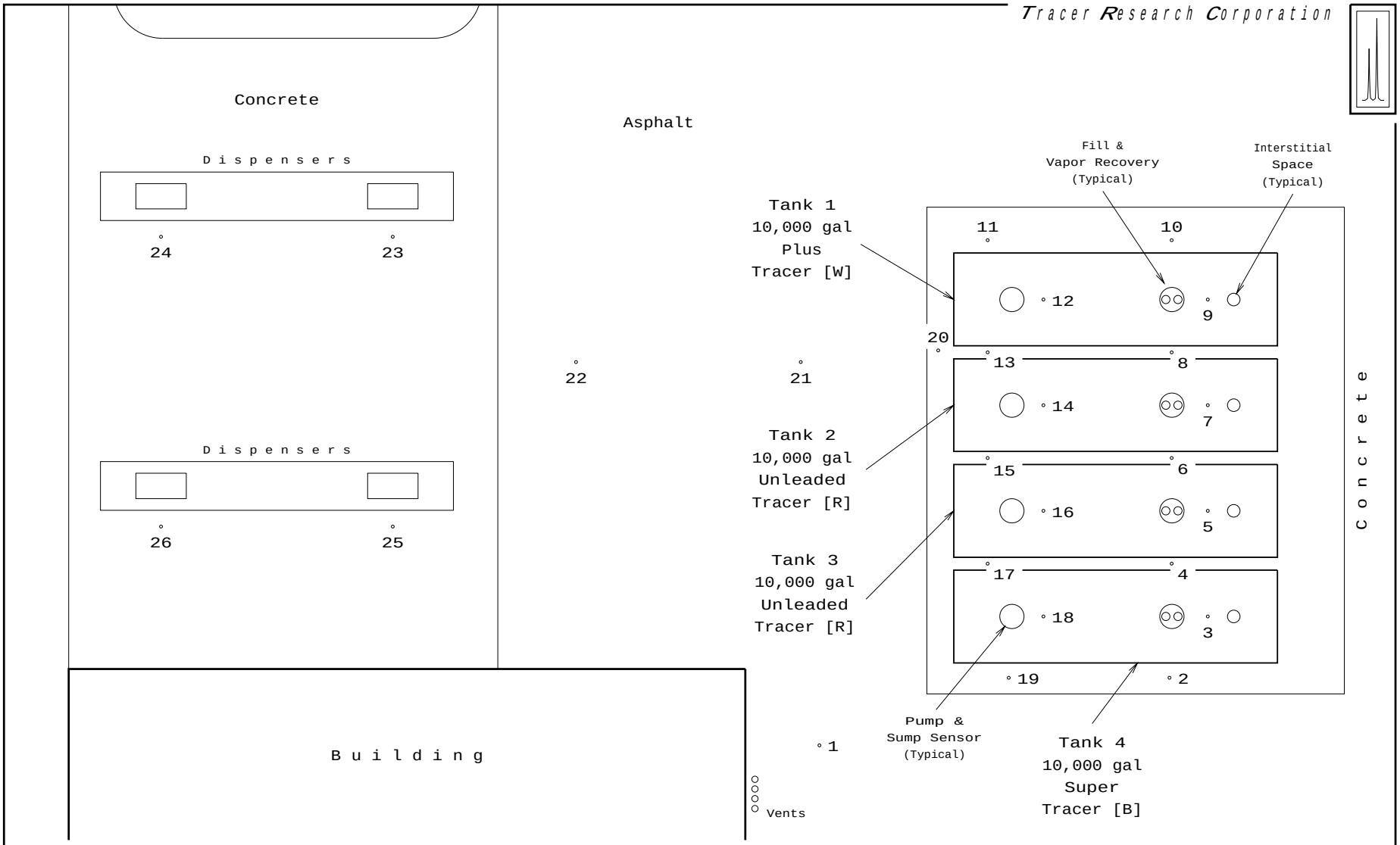
0 6 12
feet

File:SD12-1D Size:A
Arc:3665SD12 Date:02-12-02

Site SD 12

TVHC Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

North

0 6 12

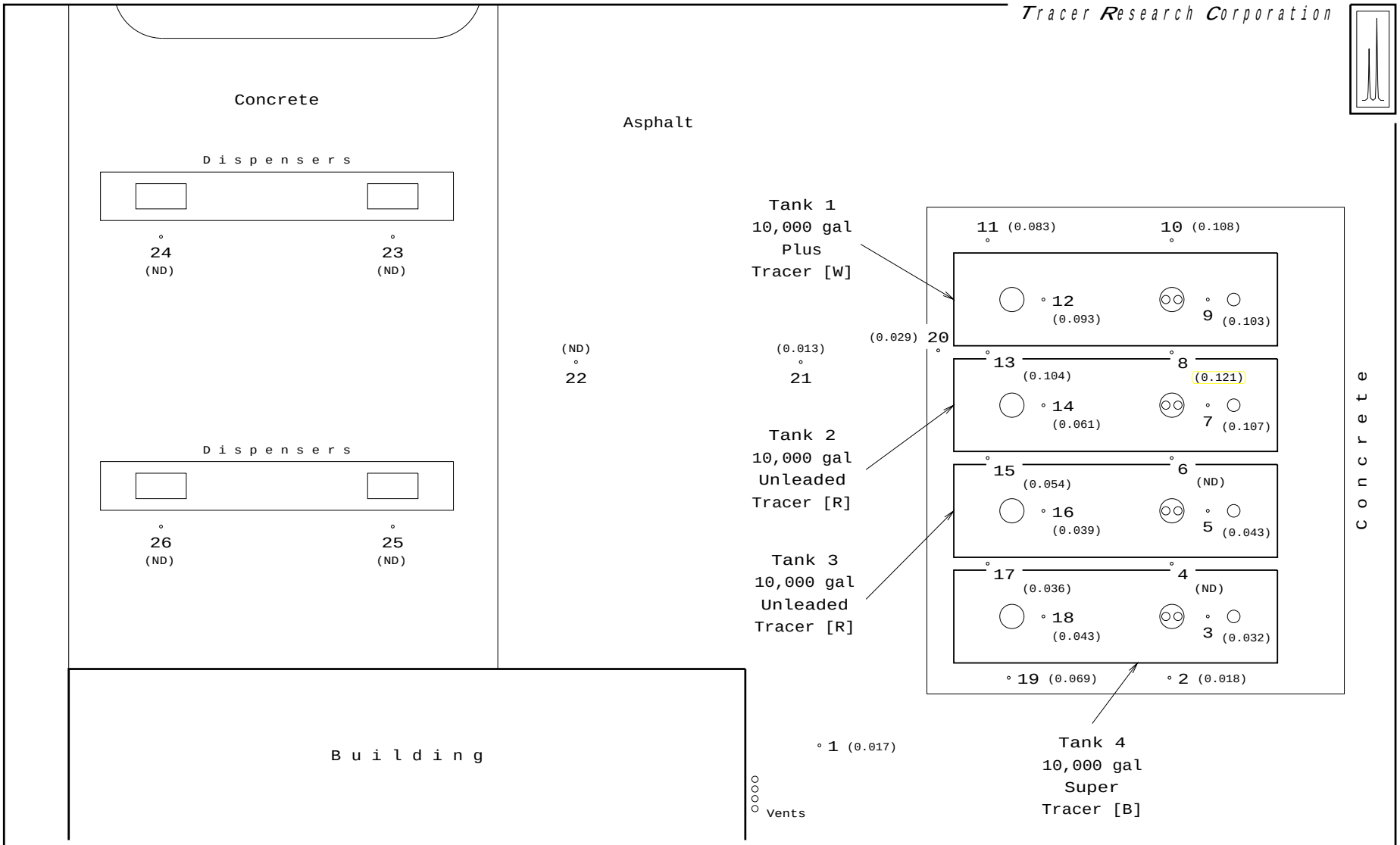
feet

File:SD13-01 Size:A
Arc:3665SD13 Date:02-11-02

Site SD 13

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

North

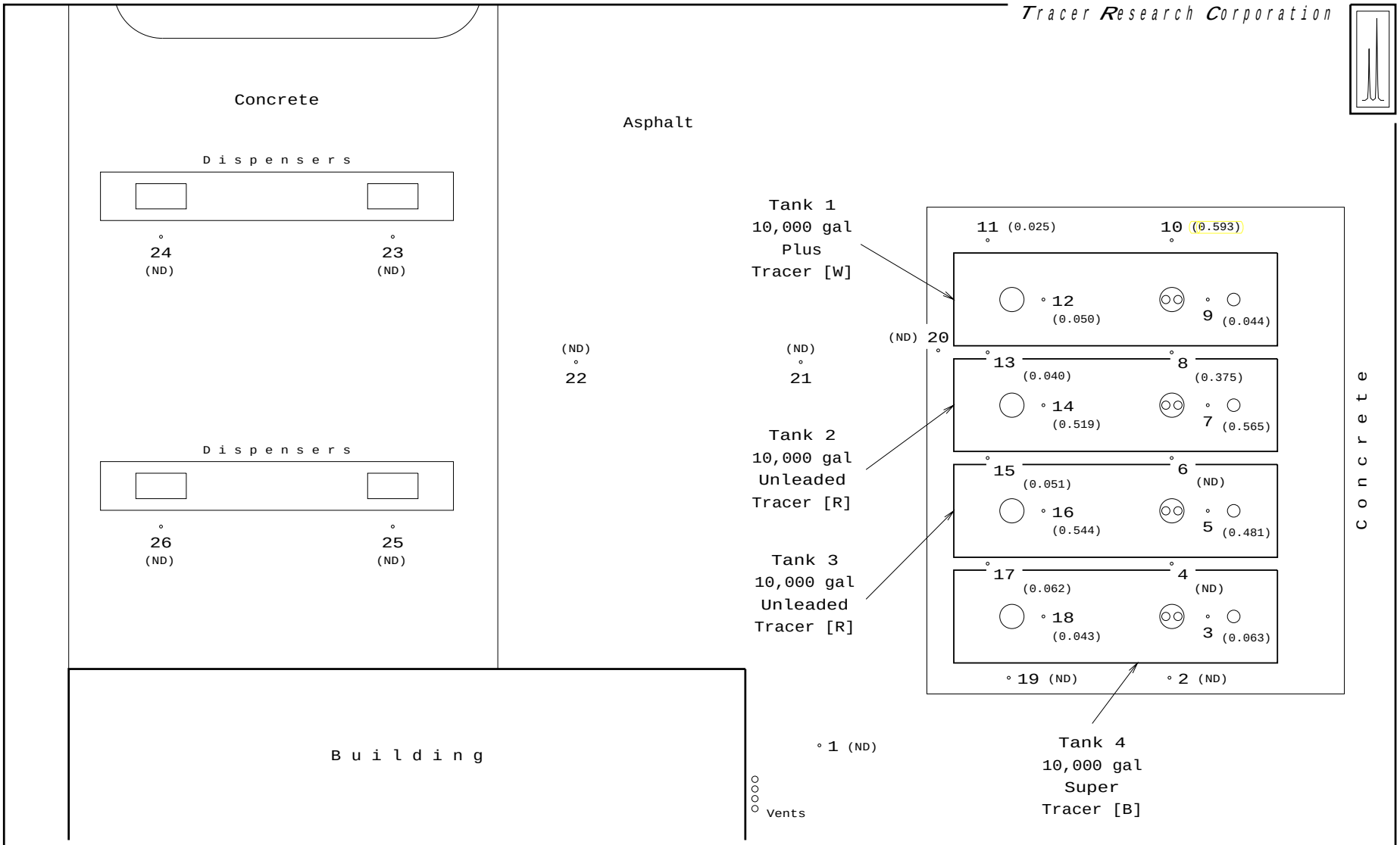
0 6 12
feet

File:SD13-1A
Arc:3665SD13
Size:A
Date:02-11-02

Site SD 13

Tracer [B] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

File:SD13-1B Size:A
Arc:3665SD13 Date:02-11-02

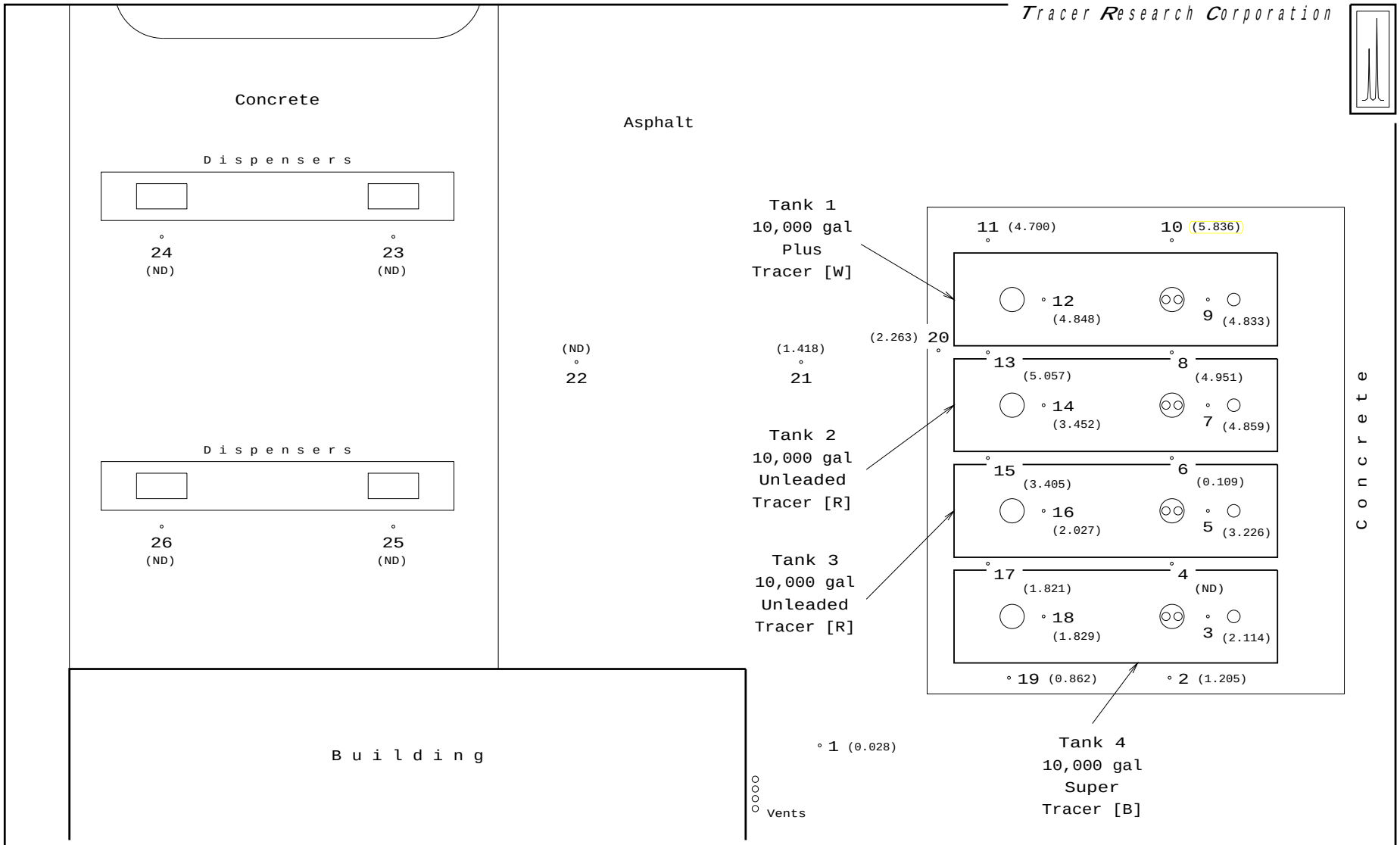
North

0 6 12
feet

Site SD 13

Tracer [R] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

North

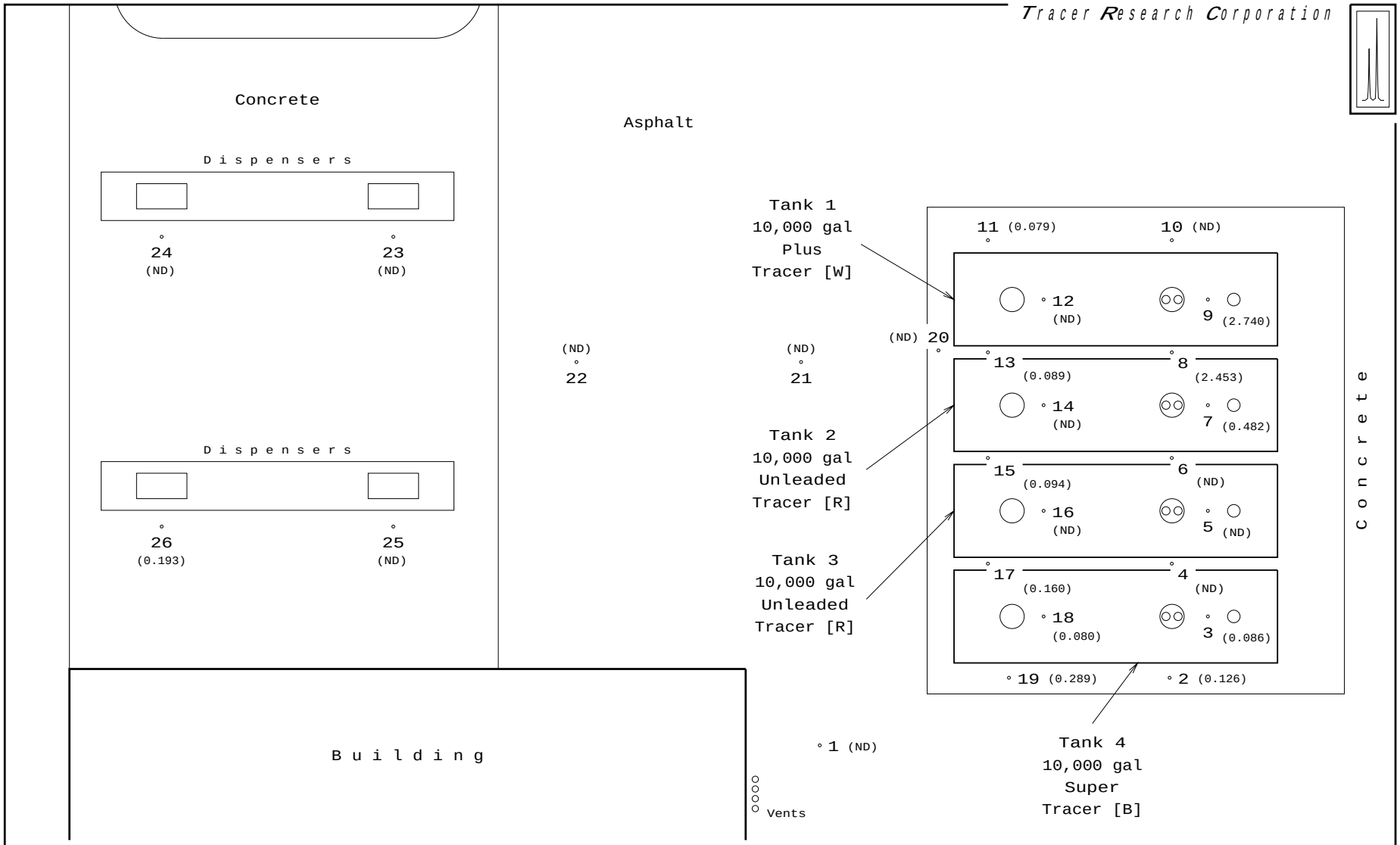
0 6 12
feet

File:SD13-1C
Arc:3665SD13
Size:A
Date:02-11-02

Site SD 13

Tracer [W] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

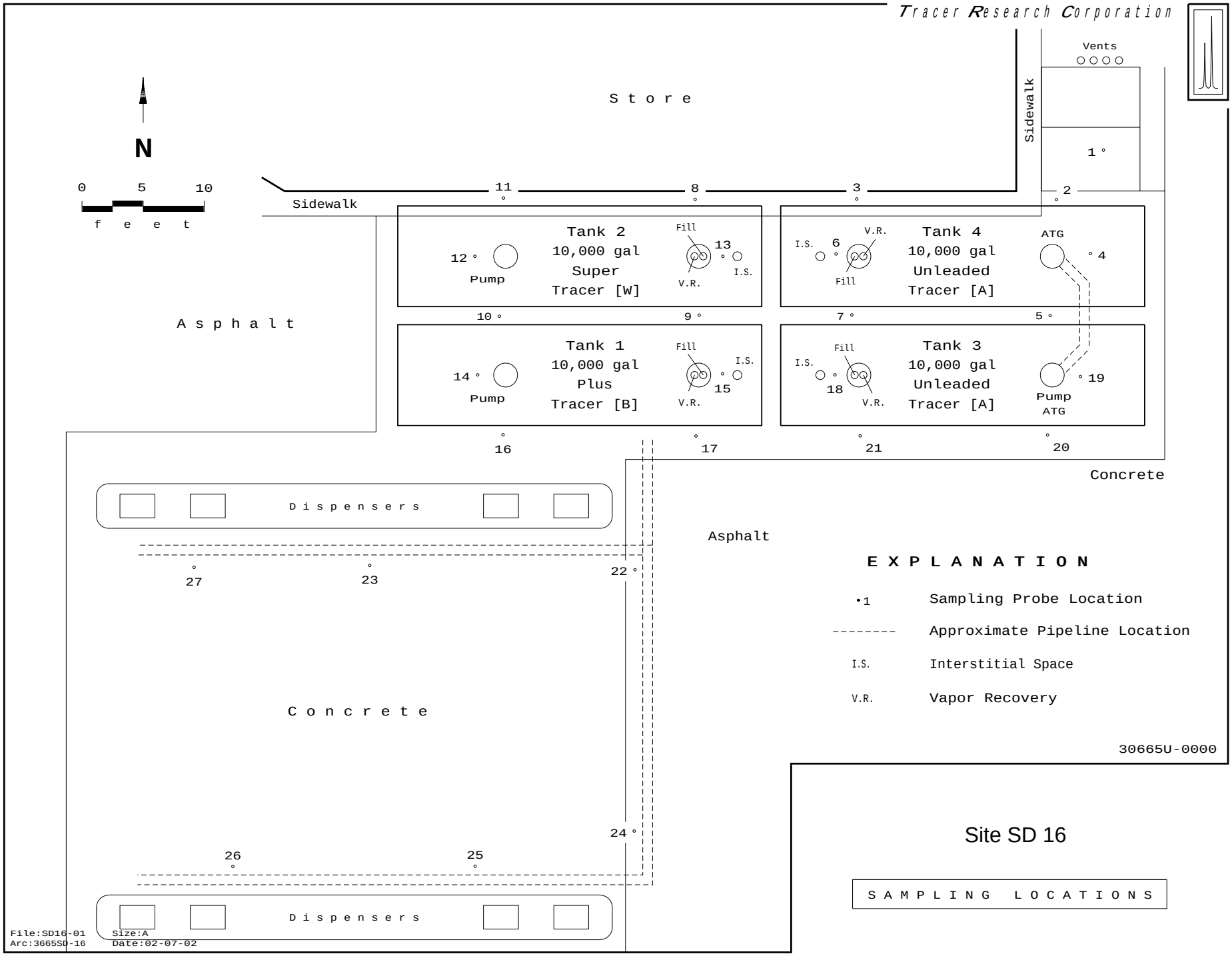
North

0 6 12
feet

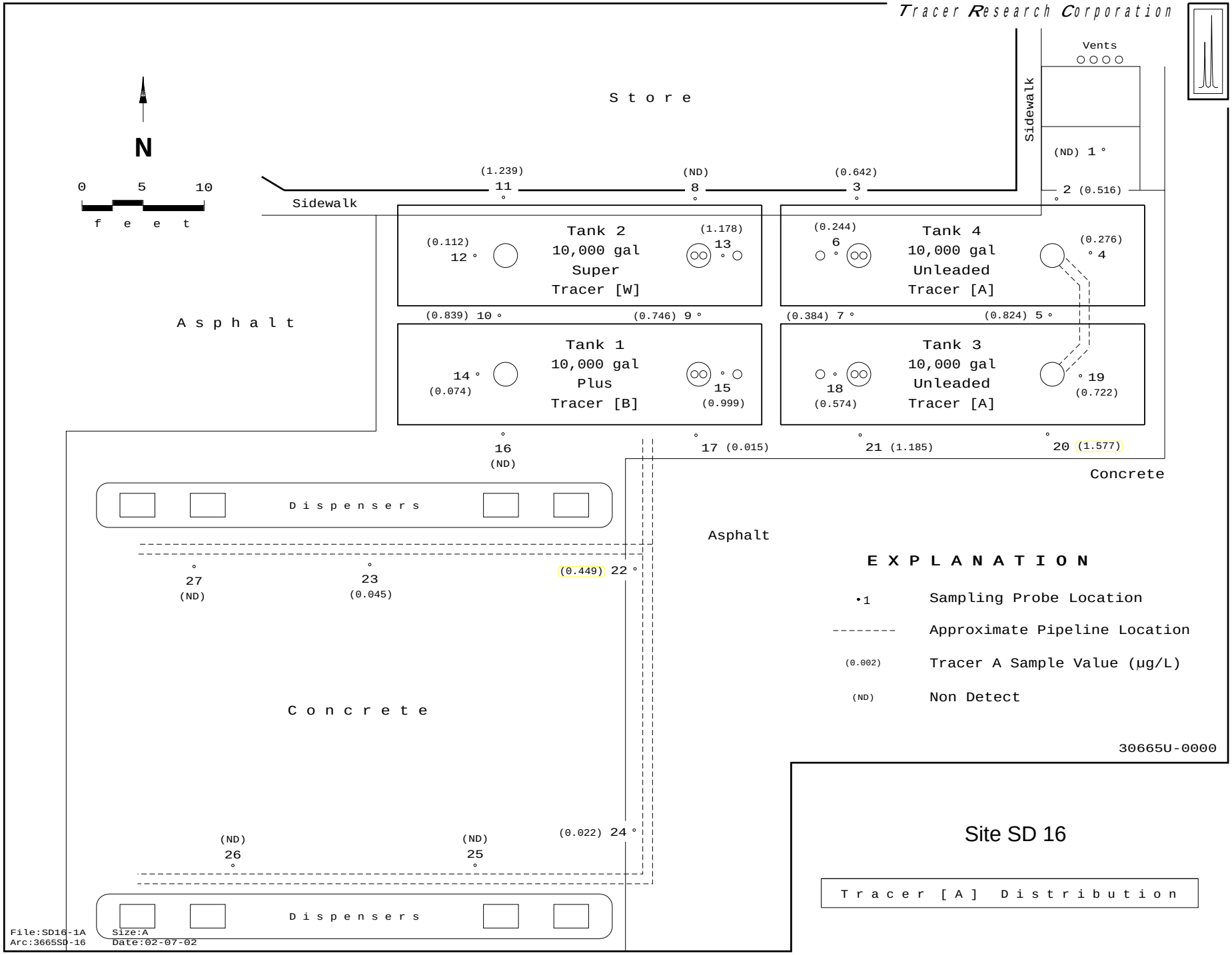
File:SD13-1D
Arc:3665SD13
Size:A
Date:02-11-02

Site SD 13

TVHC Distribution


Tracer Research Corporation
Vents
Store
Sidewalk
N
0 5 10
feet
Sidewalk
11
8
3
2
1
Tank 2
10,000 gal
Super
Tracer [W]
12
Pump
Fill
V.R.
13
I.S.
Tank 4
10,000 gal
Unleaded
Tracer [A]
I.S.
6
V.R.
Fill
ATG
4
10
9
7
5
Asphalt
Tank 1
10,000 gal
Plus
Tracer [B]
14
Pump
Fill
V.R.
15
I.S.
Tank 3
10,000 gal
Unleaded
Tracer [A]
I.S.
18
Fill
V.R.
Pump
ATG
19
16
17
21
20
Concrete
Dispensers
Asphalt
27
23
22
EXPLANATION
•1 Sampling Probe Location
-------- Approximate Pipeline Location
I.S. Interstitial Space
V.R. Vapor Recovery
30665U-0000
Concrete
24
26
25
Dispensers
Site SD 16
SAMPLING LOCATIONS
File:SD16-01
Arc:3665SD-16
Size:A
Date:02-07-02

Tracer Research Corporation

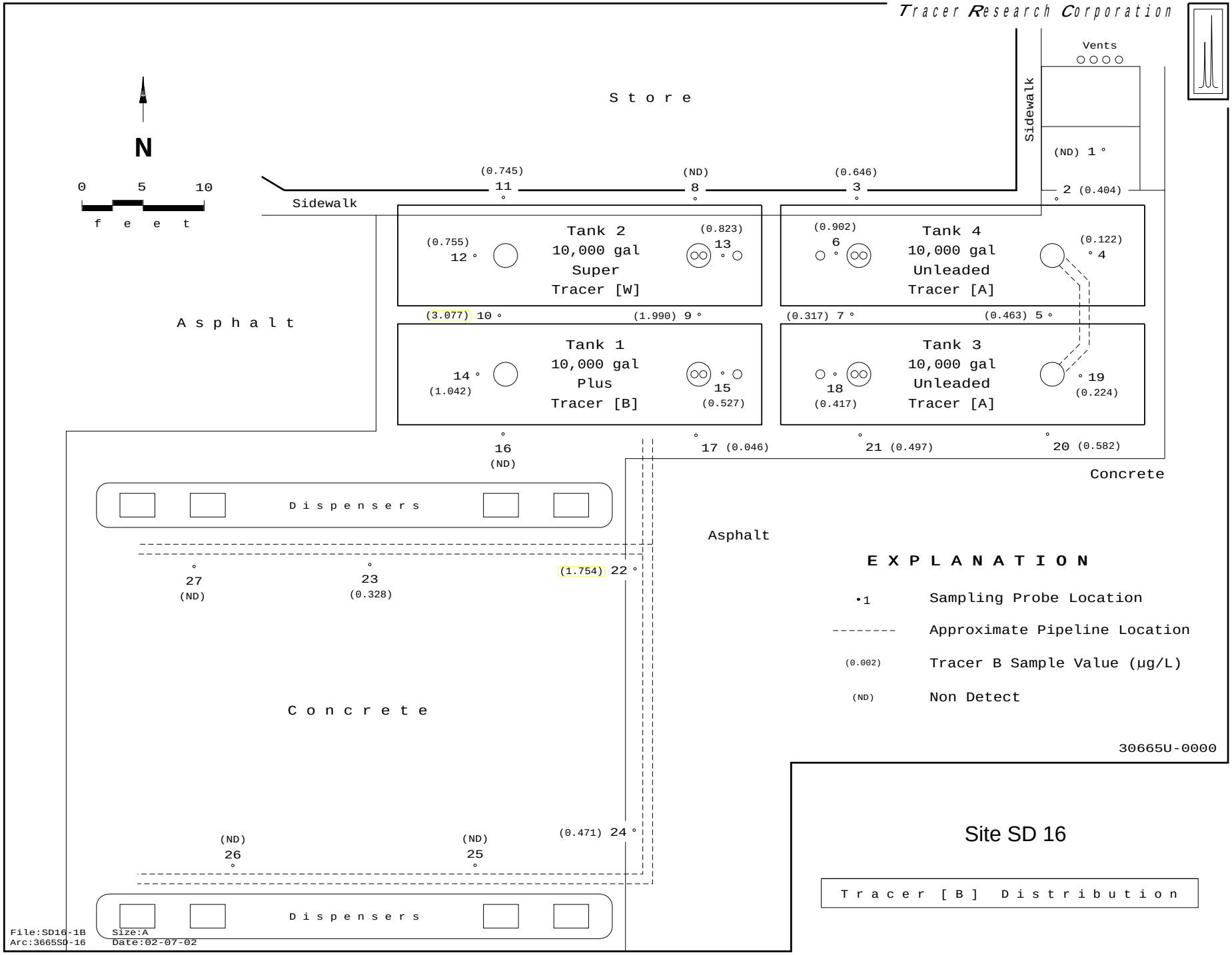


Site SD 16

Tracer [A] Distribution

File:SD16-1A
Arc:3665SD-16
Size:A
Date:02-07-02

Tracer Research Corporation

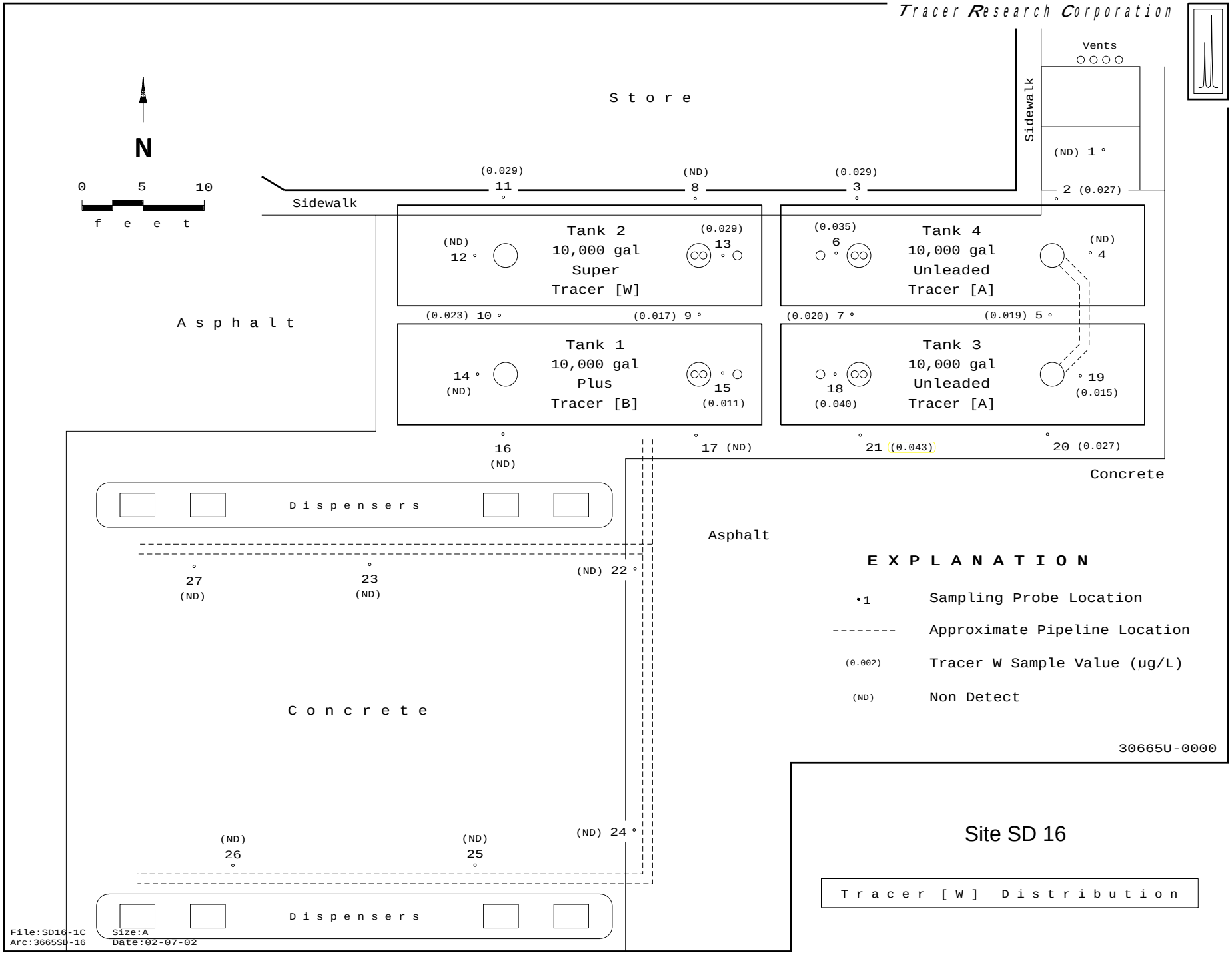


Site SD 16

Tracer [B] Distribution

File:SD16-1B
Arc:3665SD-16
Size:A
Date:02-07-02

Tracer Research Corporation

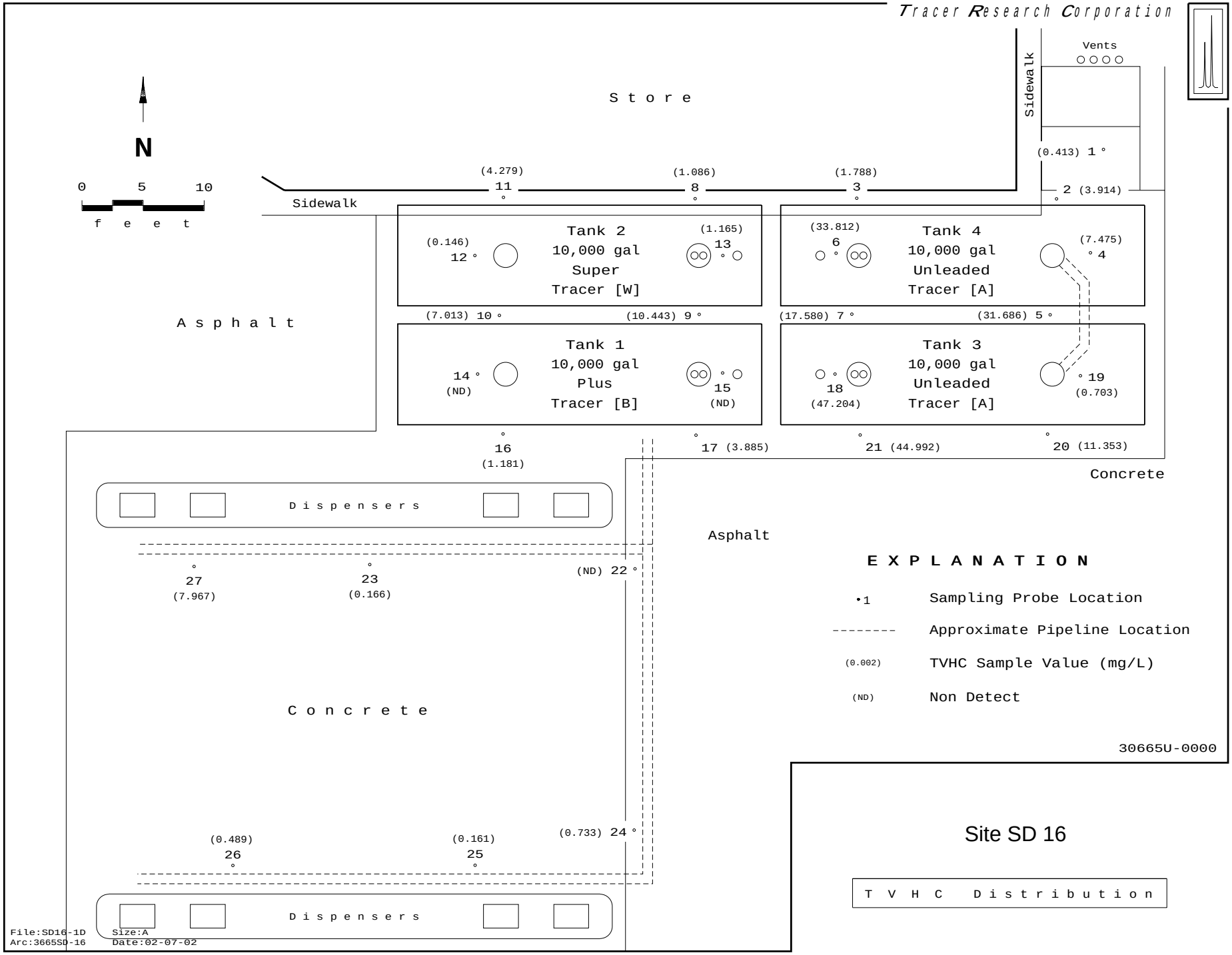


Site SD 16

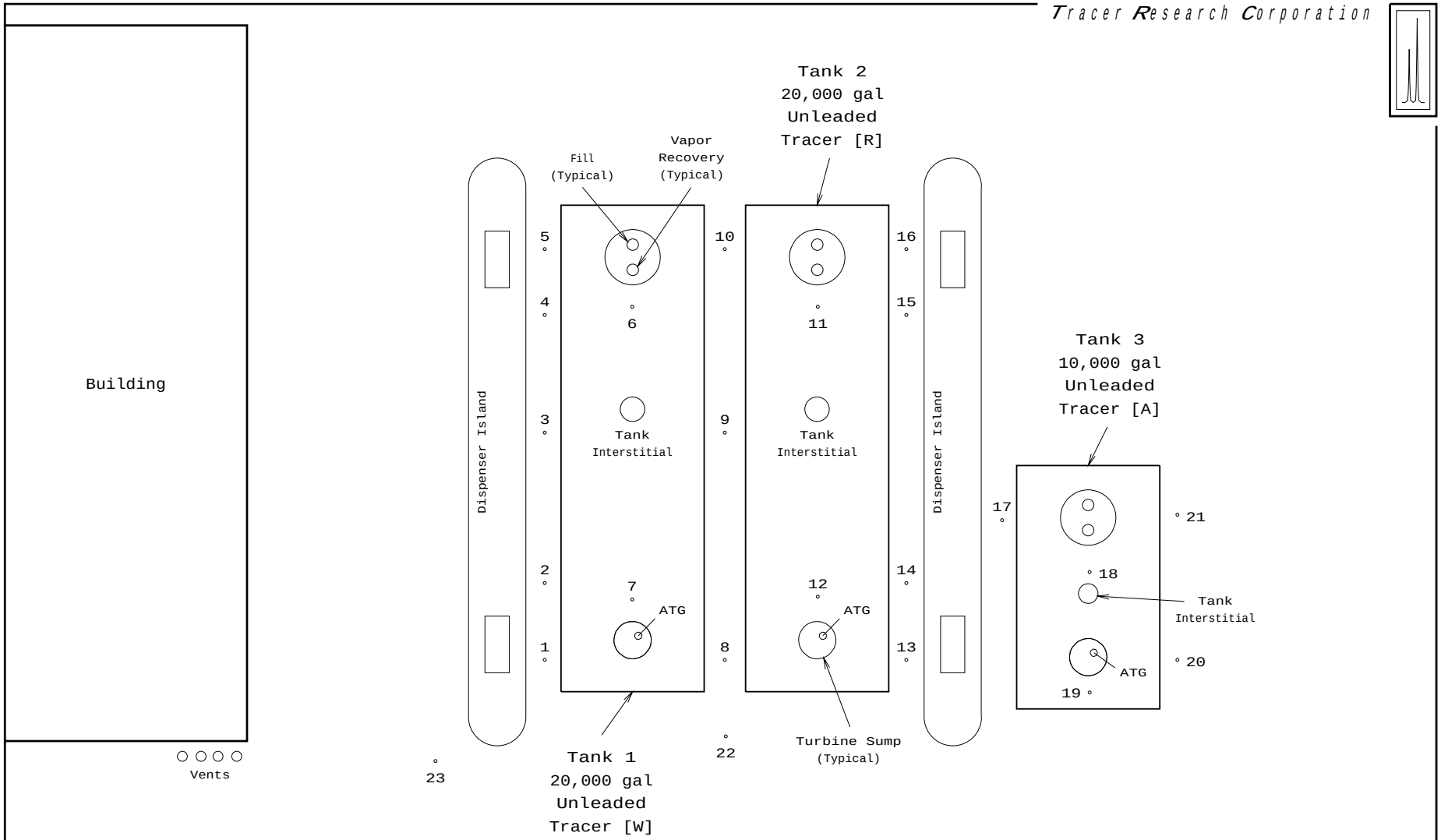
Tracer [W] Distribution

File:SD16-1C
Arc:3665SD-16
Size:A
Date:02-07-02

Tracer Research Corporation



Tracer Research Corporation



30665U-0000

N

0 5 10
f e e t

EXPLANATION

•1 Sampling Probe Location

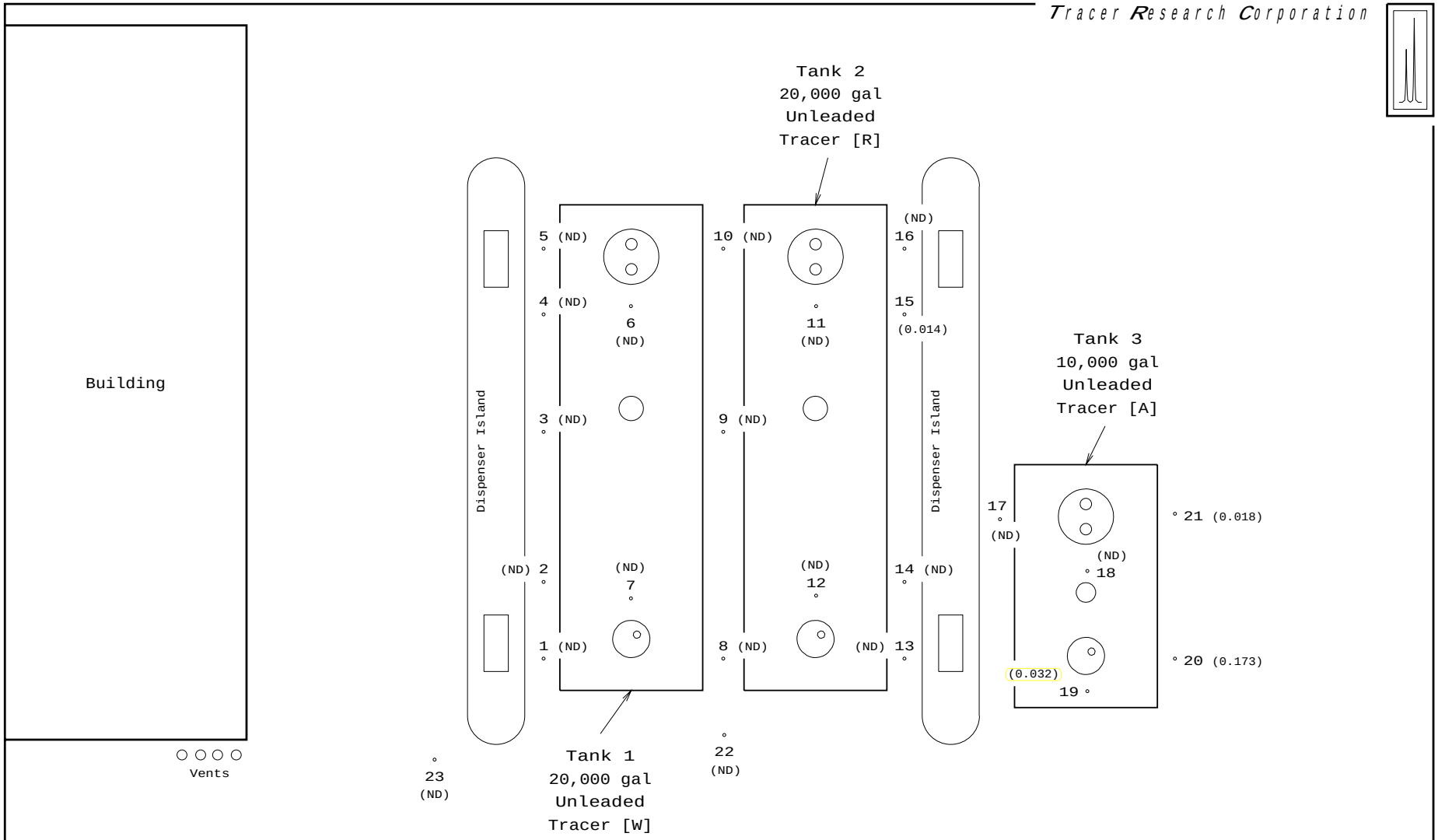
------ Approximate Pipeline Location

File:SD17-01 Size:A
Arc:3665SD17 Date:02-14-02

Site SD 17

SAMPLING LOCATIONS

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

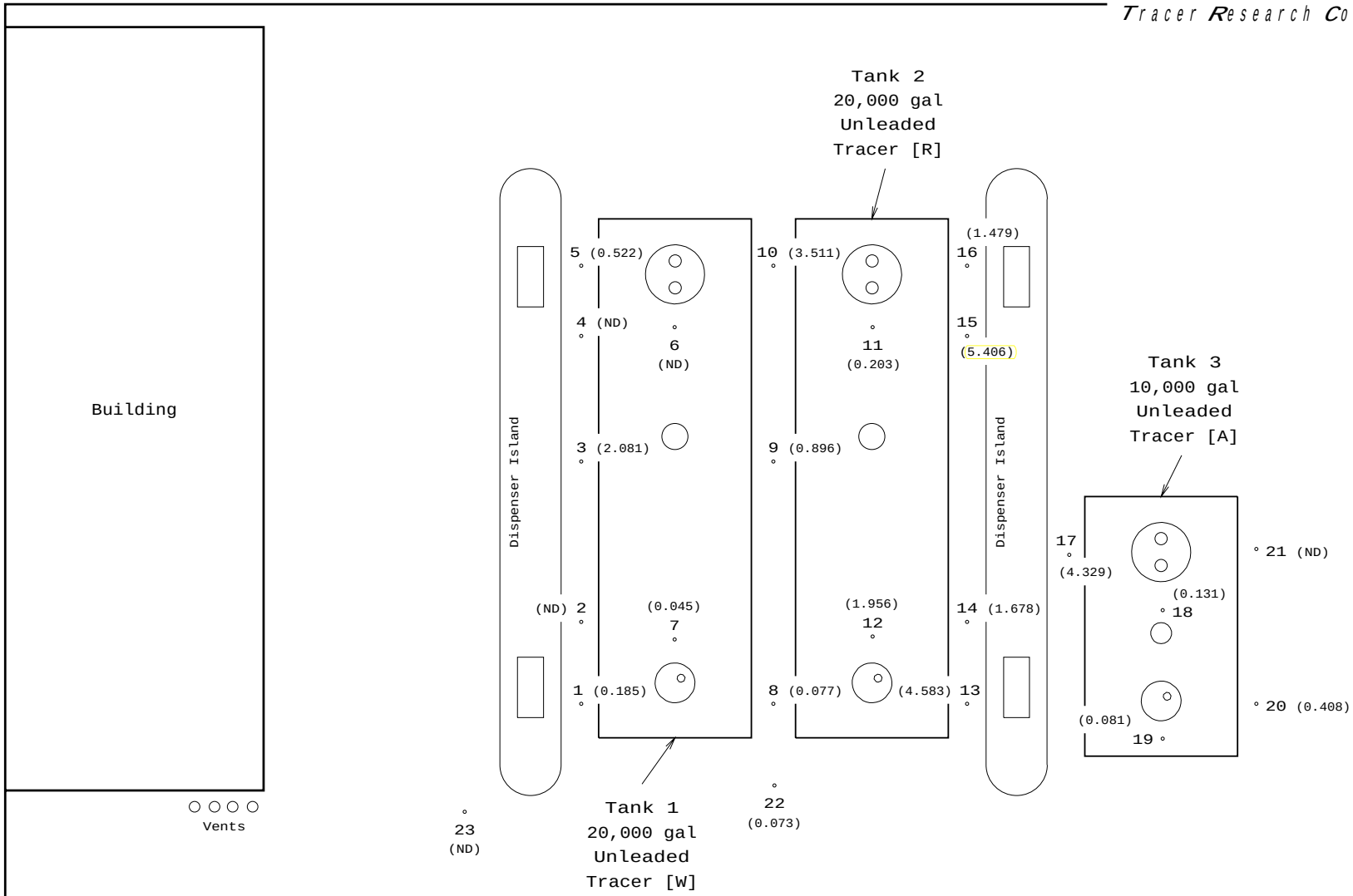
0 5 10
feet

File:SD17-1A Size:A
Arc:3665SD17 Date:02-14-02

Site SD 17

Tracer [A] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
-------	Approximate Pipeline Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

N

0 5 10

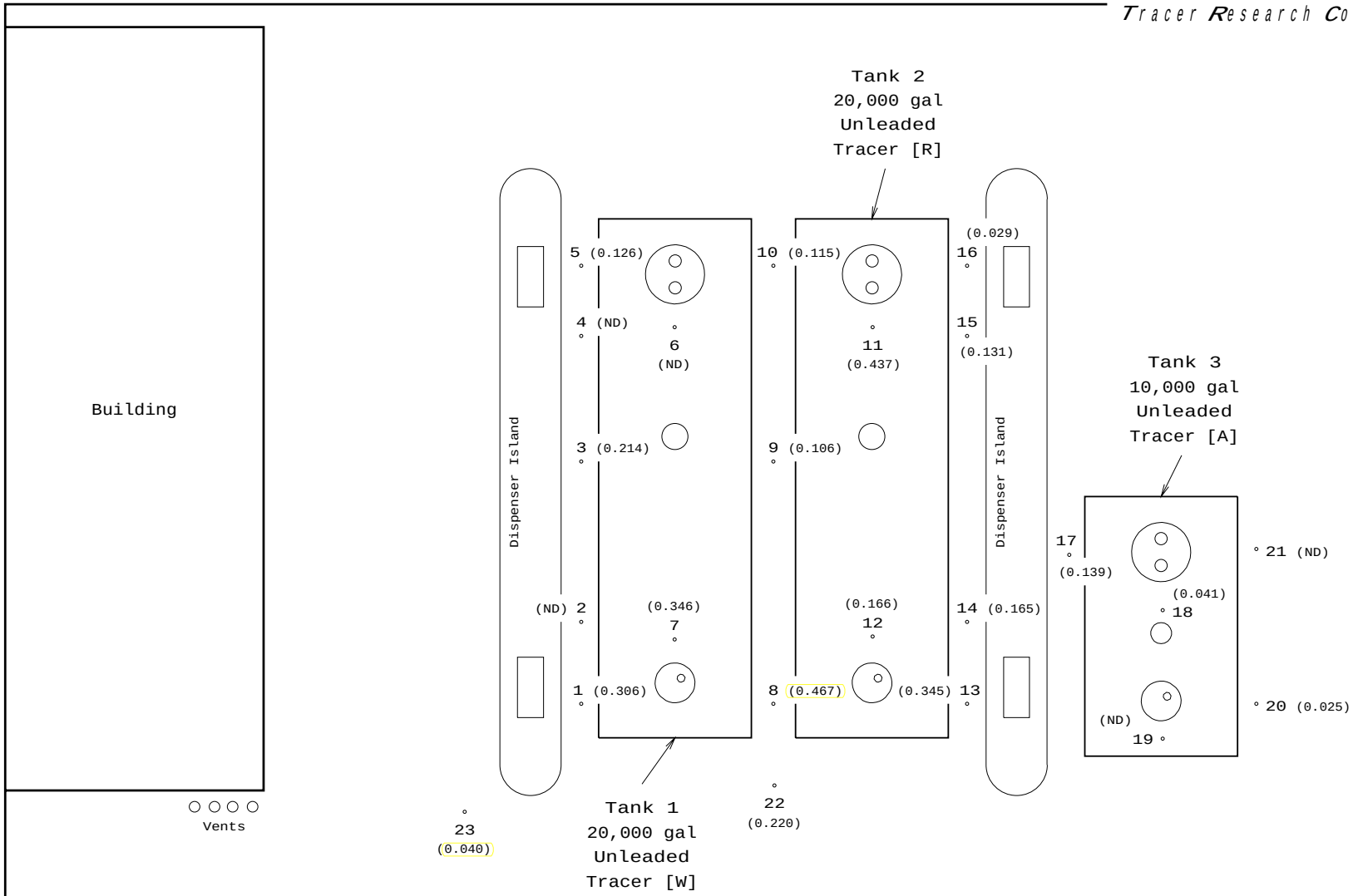
feet

File:SD17-1B Size:A
Arc:3665SD17 Date:02-14-02

Site SD 17

Tracer [R] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

N

0 5 10

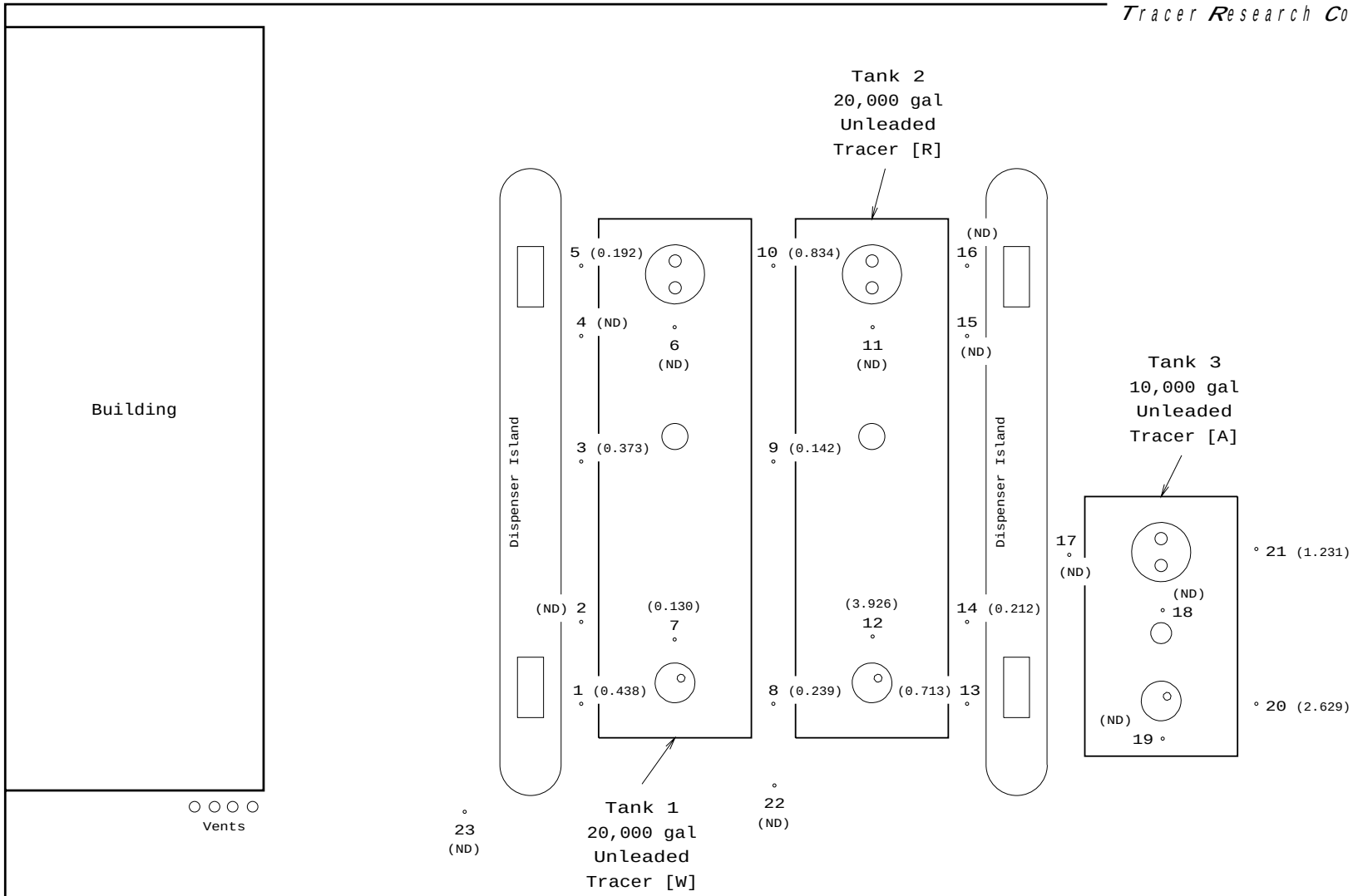
f e e t

File:SD17-1C Size:A
Arc:3665SD17 Date:02-14-02

Site SD 17

Tracer [W] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 5 10

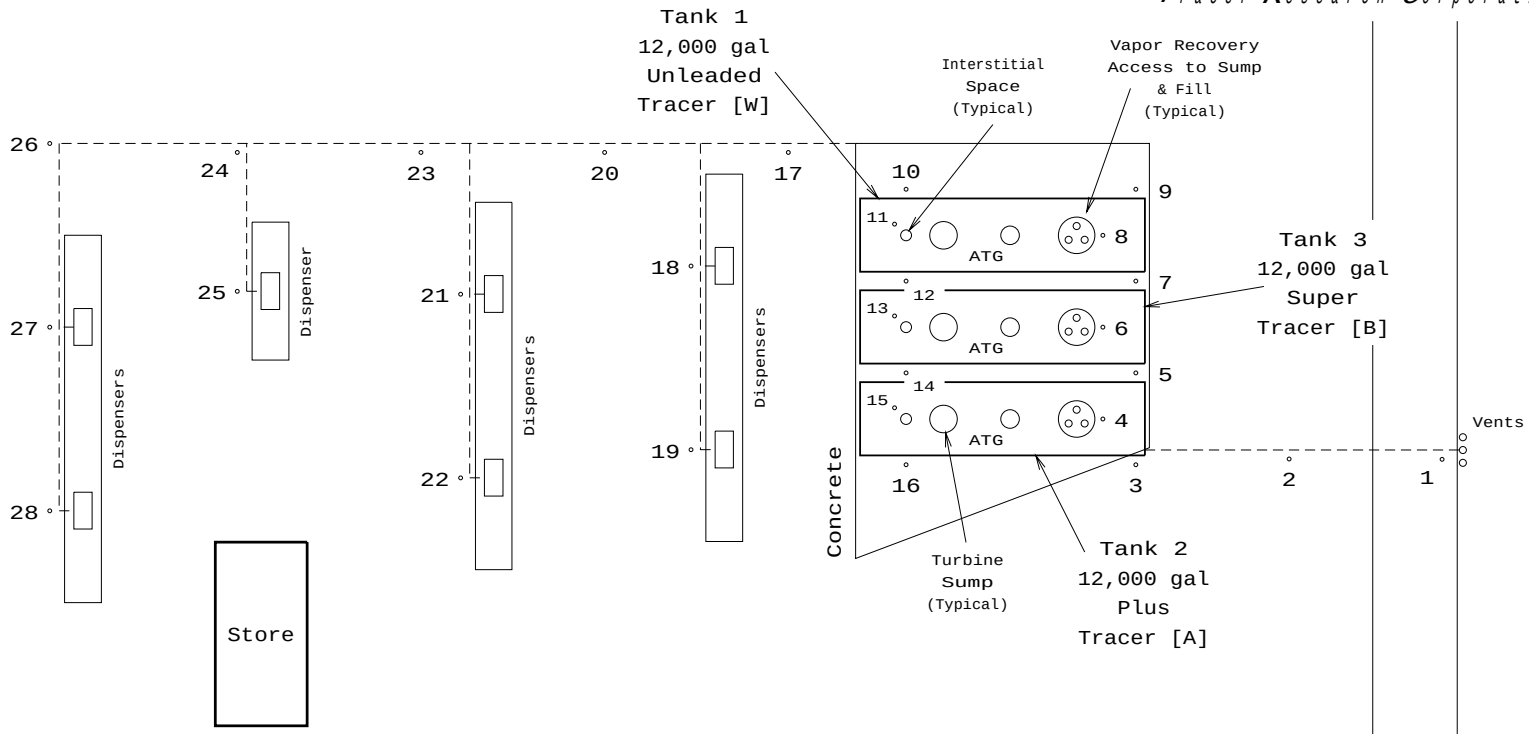
feet

File:SD17-1D Size:A
Arc:3665SD17 Date:02-14-02

Site SD 17

TVHC Distribution

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

N

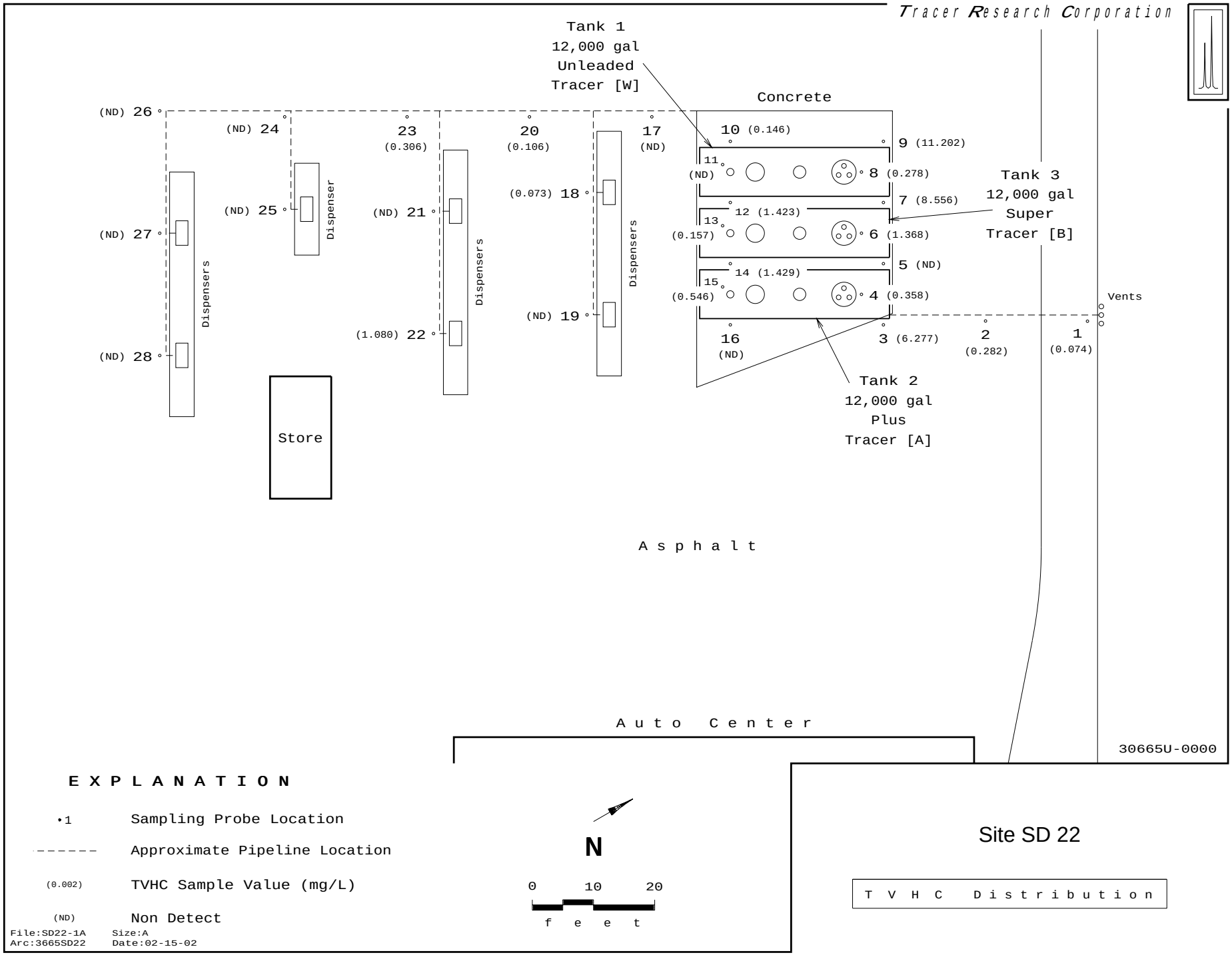
0 10 20

f e e t

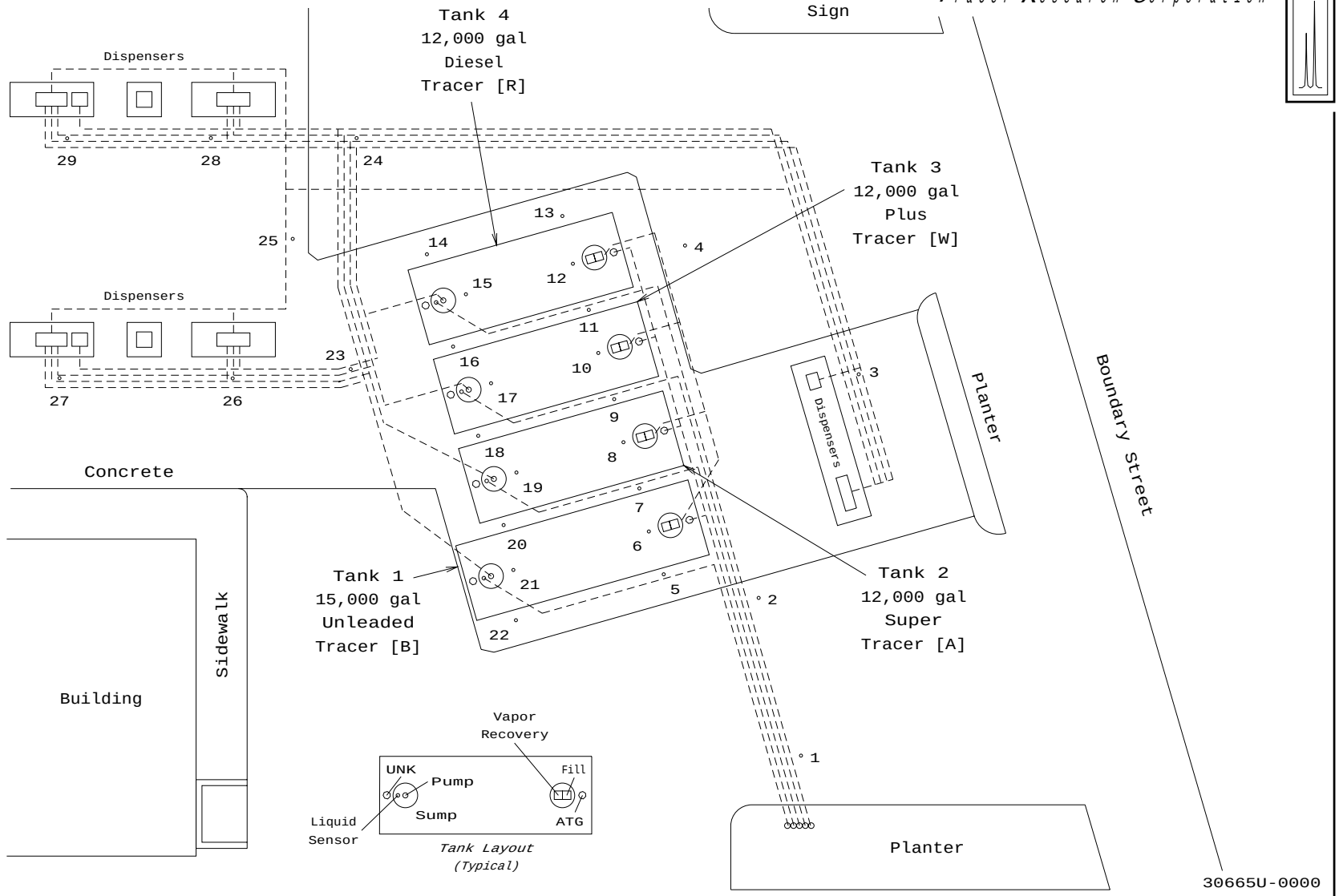
Site SD 22

SAMPLING LOCATIONS

File:SD22-01 Size:A
Arc:3665SD22 Date:02-15-02


Tracer Research Corporation
Tank 1
12,000 gal
Unleaded
Tracer [W]
Concrete
(ND) 26
(ND) 24
23
(0.306)
20
(0.106)
17
(ND)
10 (0.146)
9 (11.202)
11
(ND)
8 (0.278)
7 (8.556)
(0.073) 18
(ND) 25
(ND) 21
12 (1.423)
13
(0.157)
6 (1.368)
Tank 3
12,000 gal
Super
Tracer [B]
(ND) 27
5 (ND)
14 (1.429)
15
(0.546)
4 (0.358)
Vents
(ND) 19
(1.080) 22
(ND) 28
16
(ND)
3 (6.277)
2
(0.282)
1
(0.074)
Dispensers
Dispenser
Dispensers
Dispensers
Store
Tank 2
12,000 gal
Plus
Tracer [A]
Asphalt
Auto Center
30665U-0000
EXPLANATION
•1 Sampling Probe Location
------ Approximate Pipeline Location
(0.002) TVHC Sample Value (mg/L)
(ND) Non Detect
N
0 10 20
feet
Site SD 22
TVHC Distribution
File:SD22-1A Size:A
Arc:3665SD22 Date:02-15-02

Tracer Research Corporation



Site SD 24

SAMPLING LOCATIONS

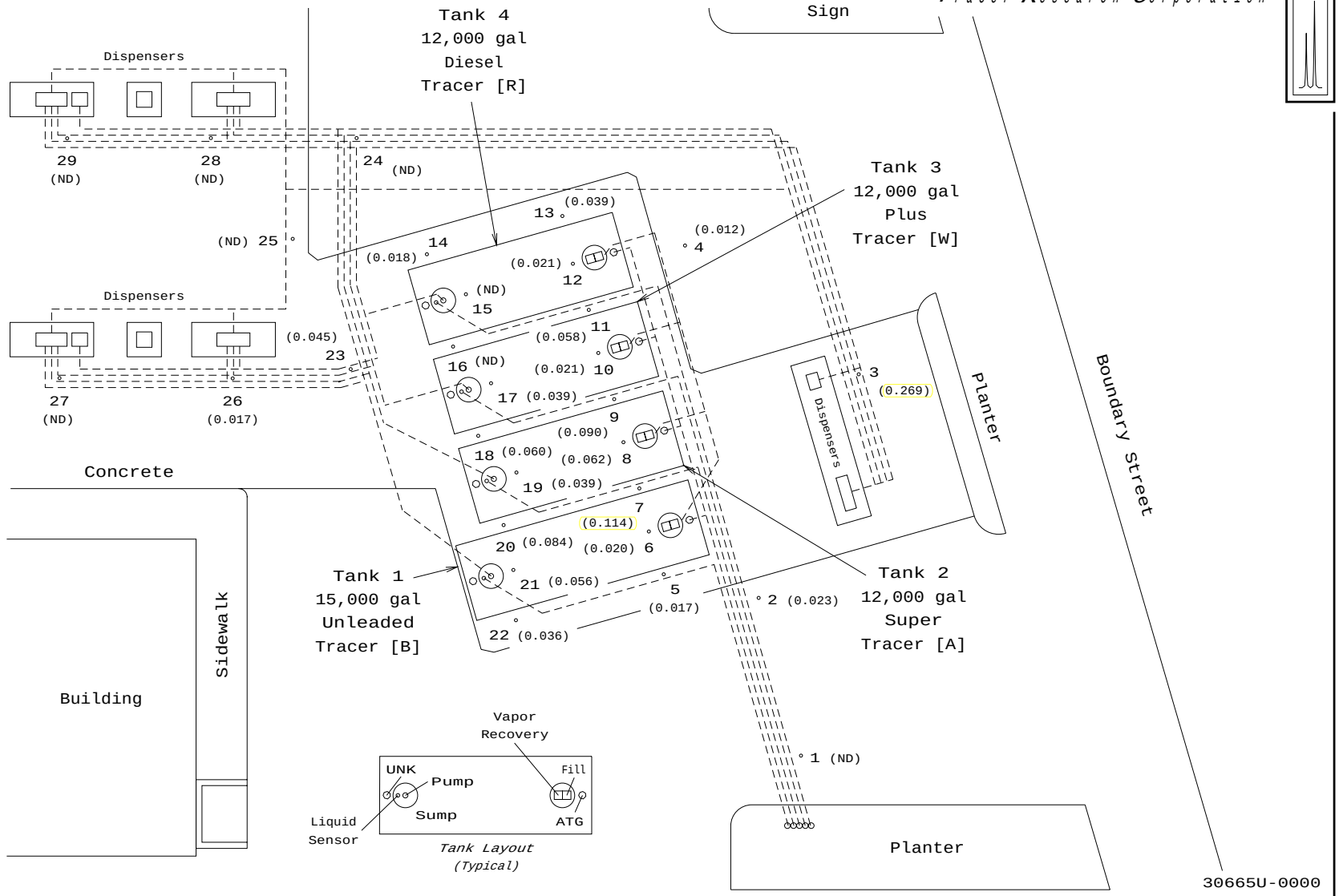
EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

File:SD24-01 Size:A
Arc:3665SD24 Date:03-05-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

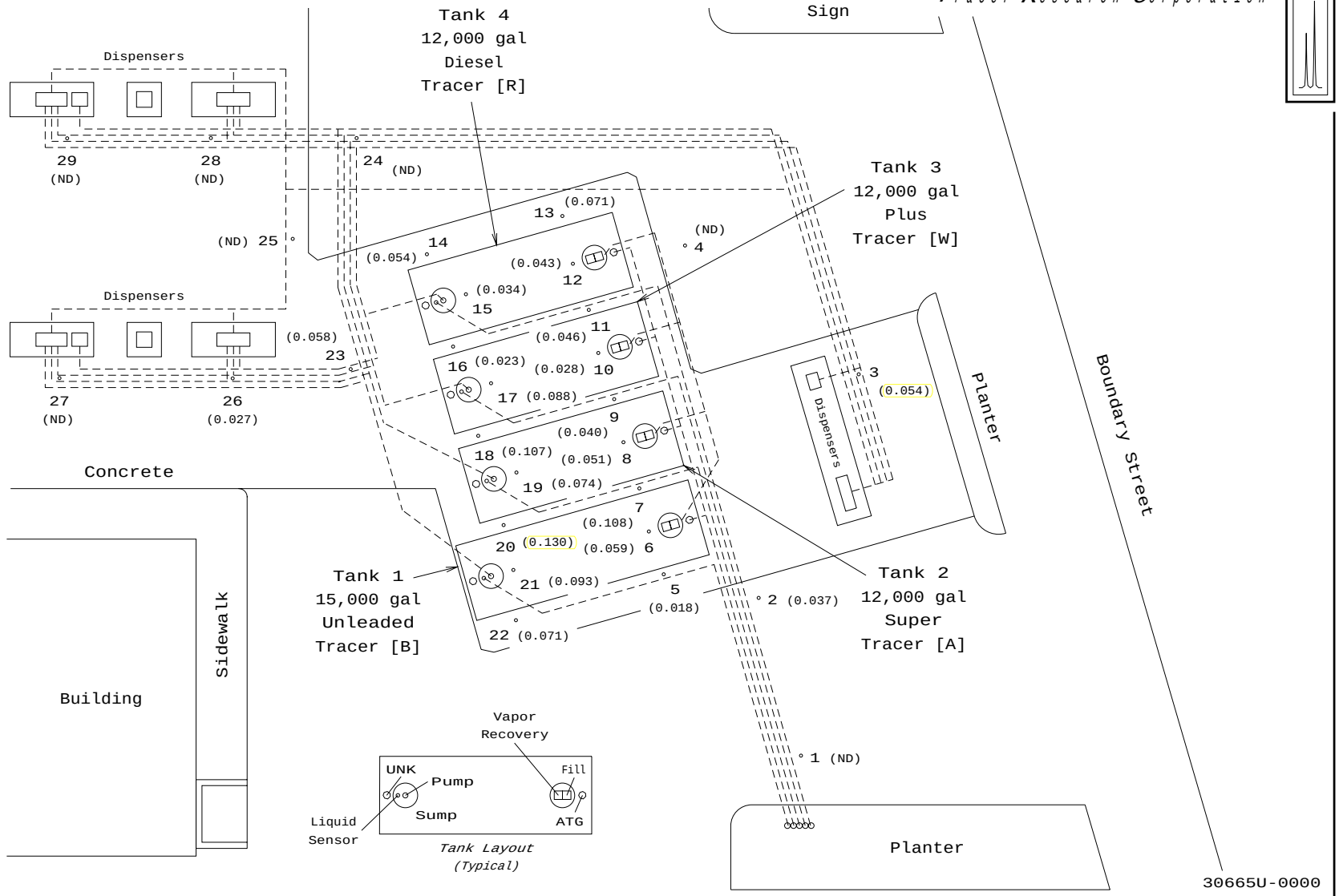
f e e t

File:SD24-1A Size:A
Arc:3665SD24 Date:03-05-02

Site SD 24

Tracer [A] Distribution

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

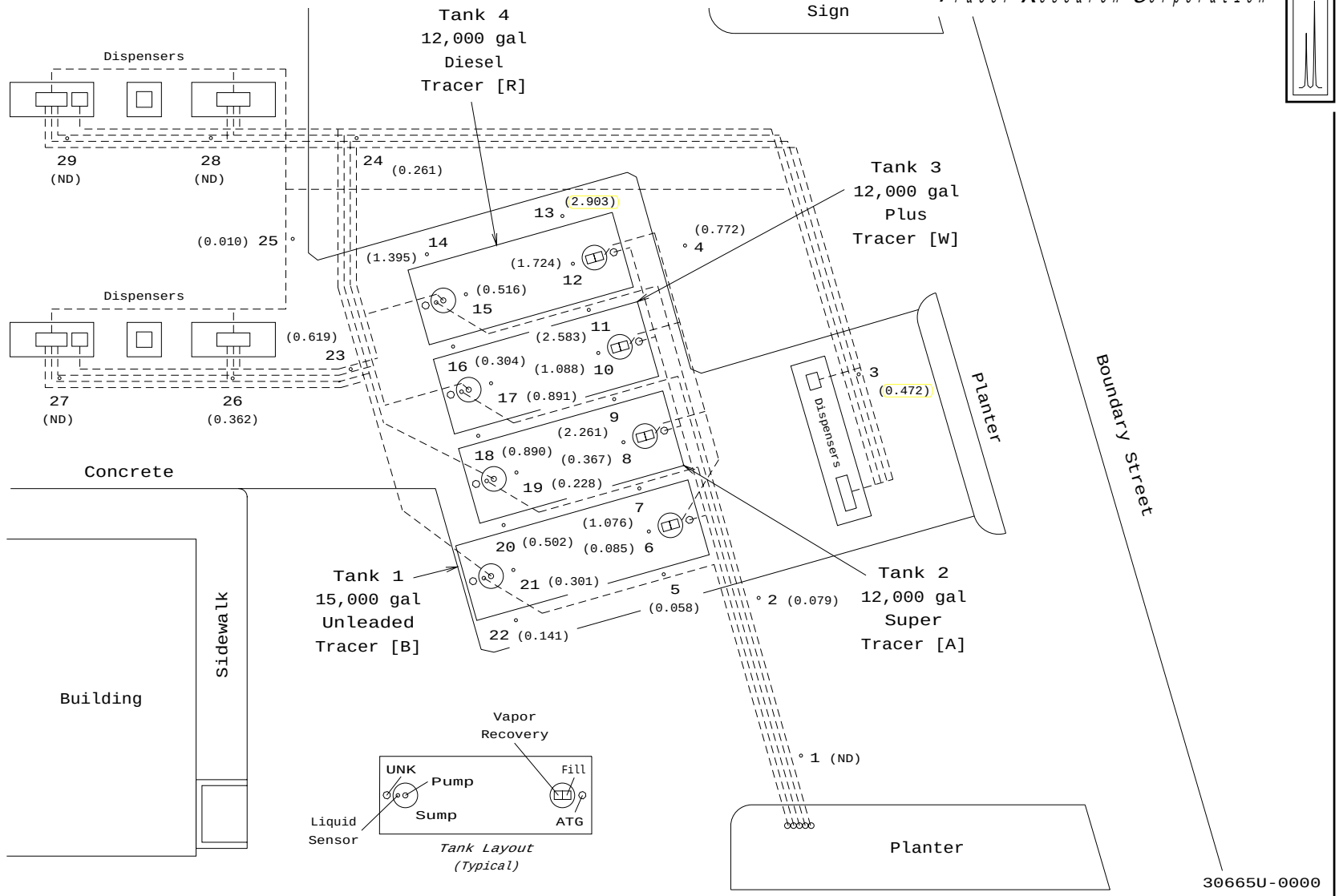
f e e t

File:SD24-1B Size:A
Arc:3665SD24 Date:03-05-02

Site SD 24

T r a c e r [B] D i s t r i b u t i o n

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

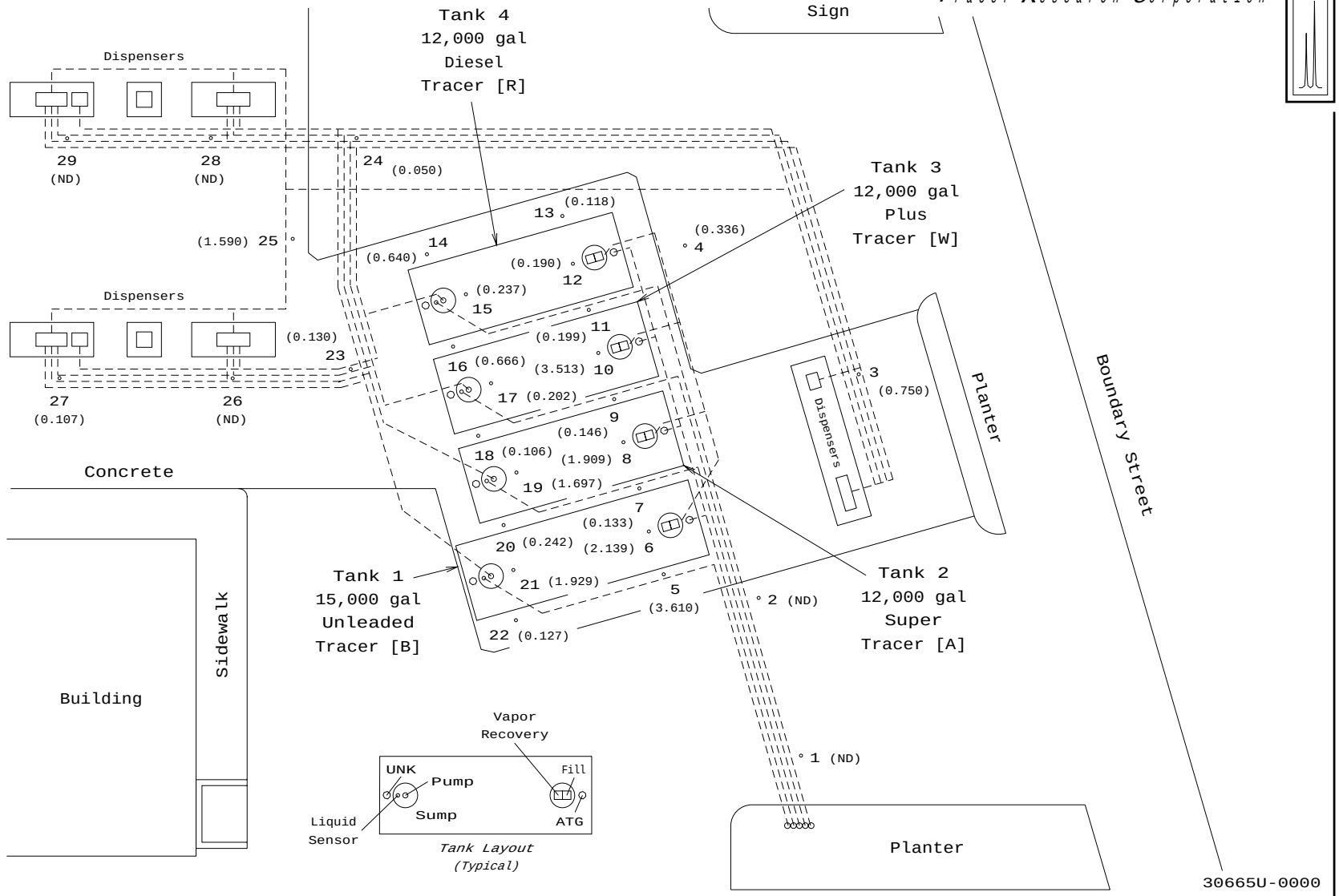
f e e t

File:SD24-1C Size:A
Arc:3665SD24 Date:03-05-02

Site SD 24

Tracer [W] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 10 20

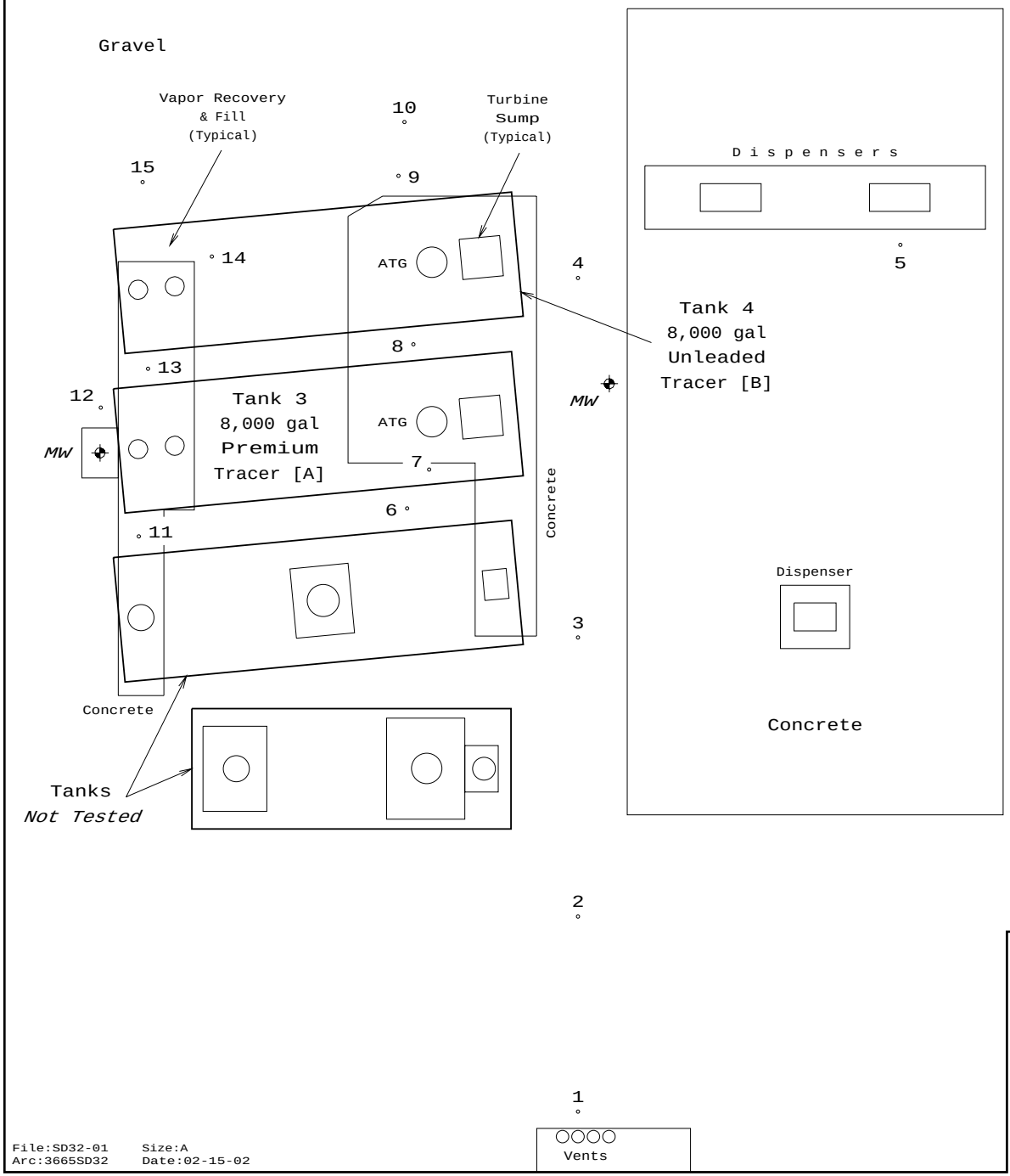
f e e t

File:SD24-1D Size:A
Arc:3665SD24 Date:03-05-02

Site SD 24

T V H C D i s t r i b u t i o n

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
⌖ MW	Monitoring Well Location

N

0 5 10

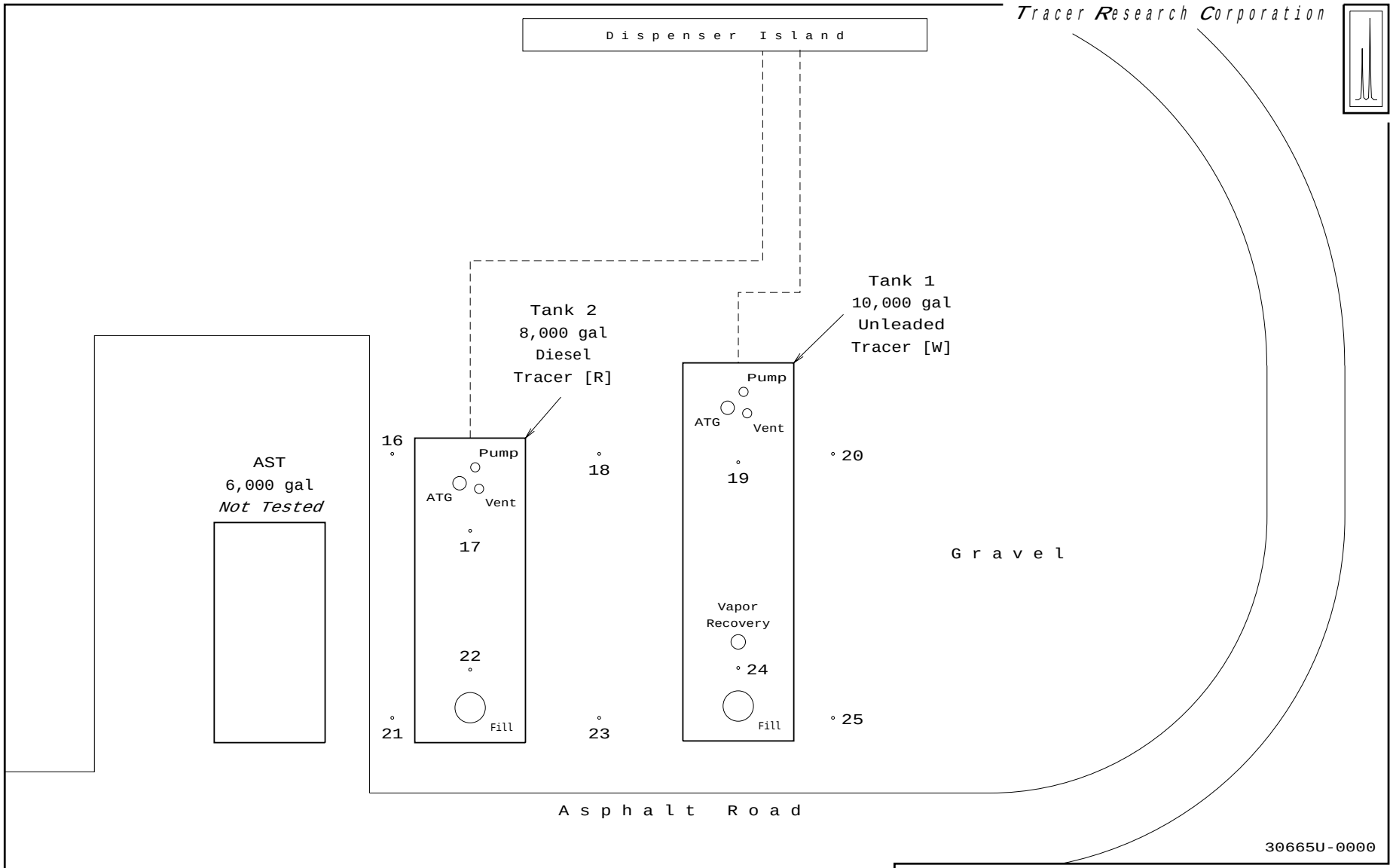
feet

30665U-0000

Site SD 32

SAMPLING LOCATIONS

File:SD32-01 Size:A
Arc:3665SD32 Date:02-15-02



EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

File:SD32-02 Size:A
Arc:3665SD32 Date:02-15-02

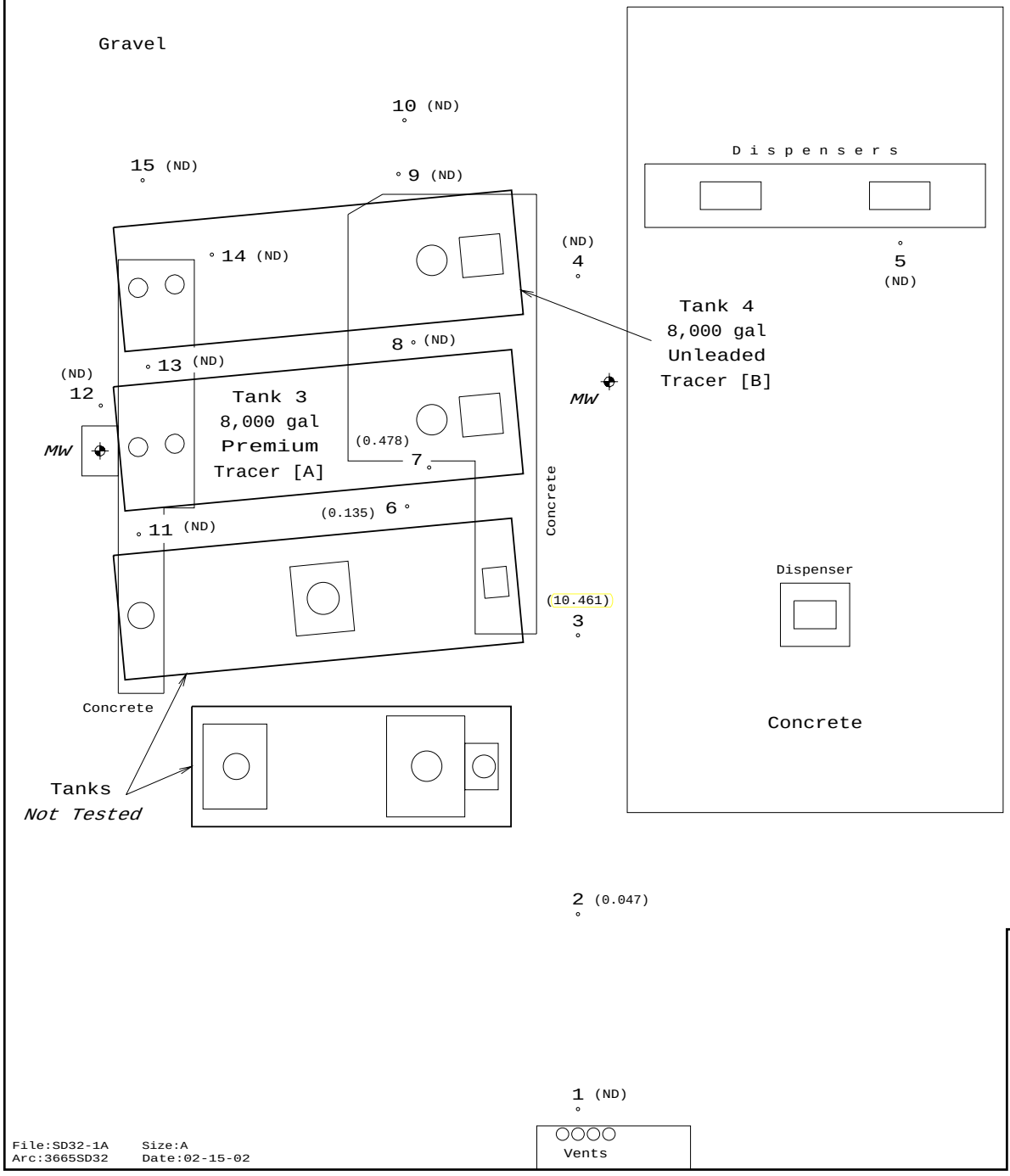
North

0 5 10
feet

Site SD 32

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

·1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect
MW	Monitoring Well Location

N

0 5 10

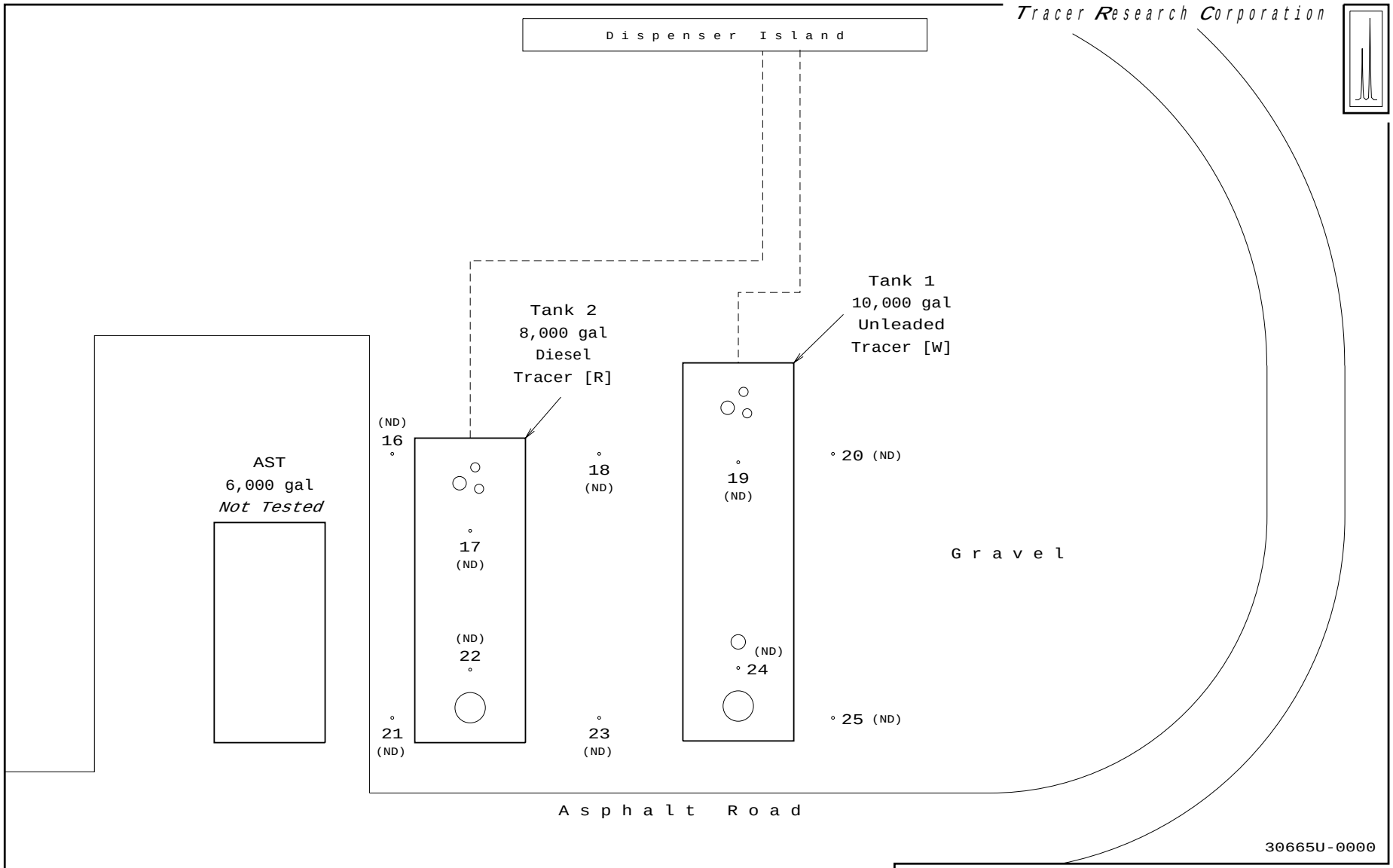
f e e t

30665U-0000

Site SD 32

Tracer [A] Distribution

File:SD32-1A Size:A
Arc:3665SD32 Date:02-15-02



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

File:SD32-2A Size:A
Arc:3665SD32 Date:02-15-02

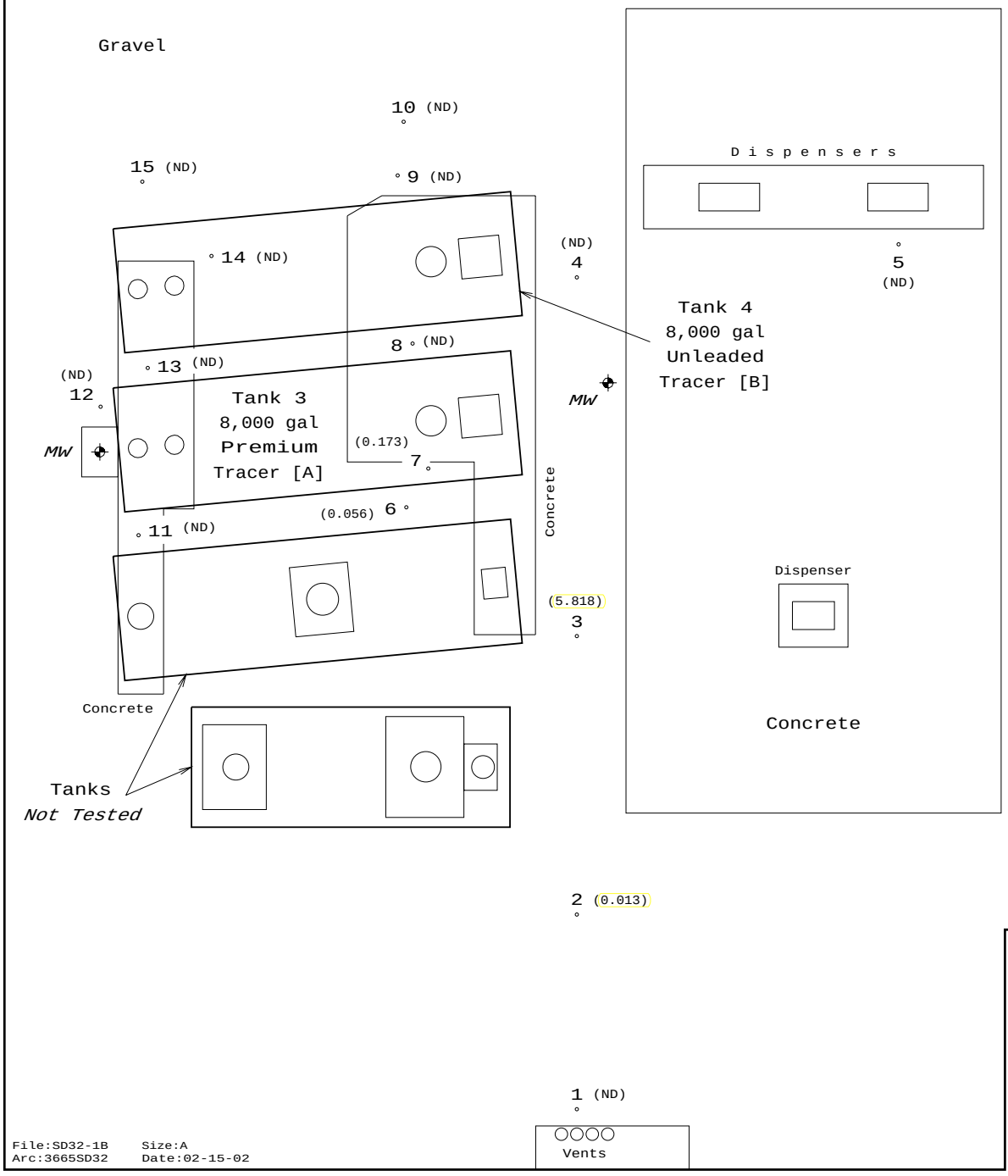
North

0 5 10
feet

Site SD 32

Tracer [A] Distribution

Tracer Research Corporation



File:SD32-1B Size:A
Arc:3665SD32 Date:02-15-02

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect
MW	Monitoring Well Location

N

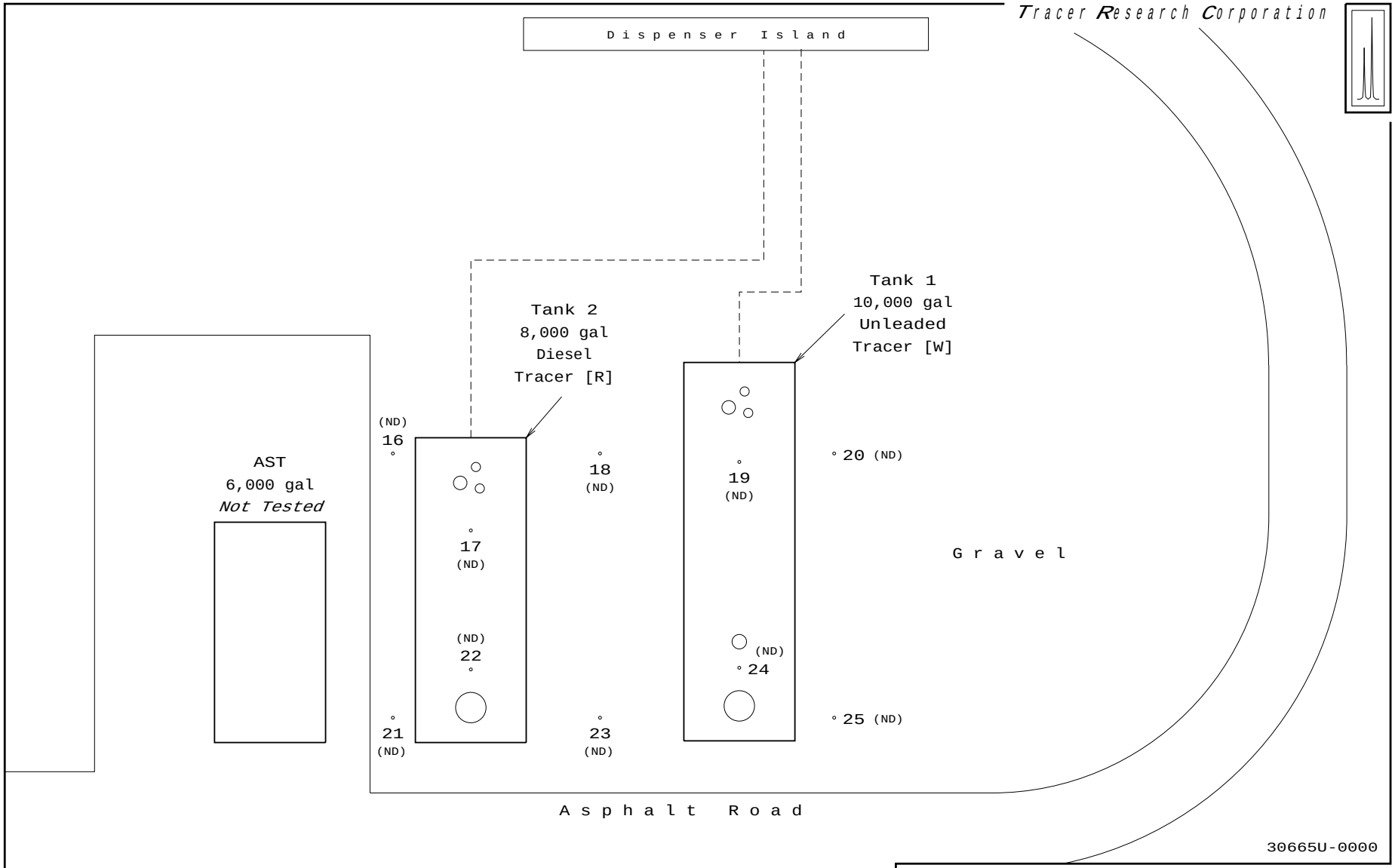
0 5 10
feet

30665U-0000

Site SD 32

Tracer [B] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

File:SD32-2B Size:A
Arc:3665SD32 Date:02-15-02

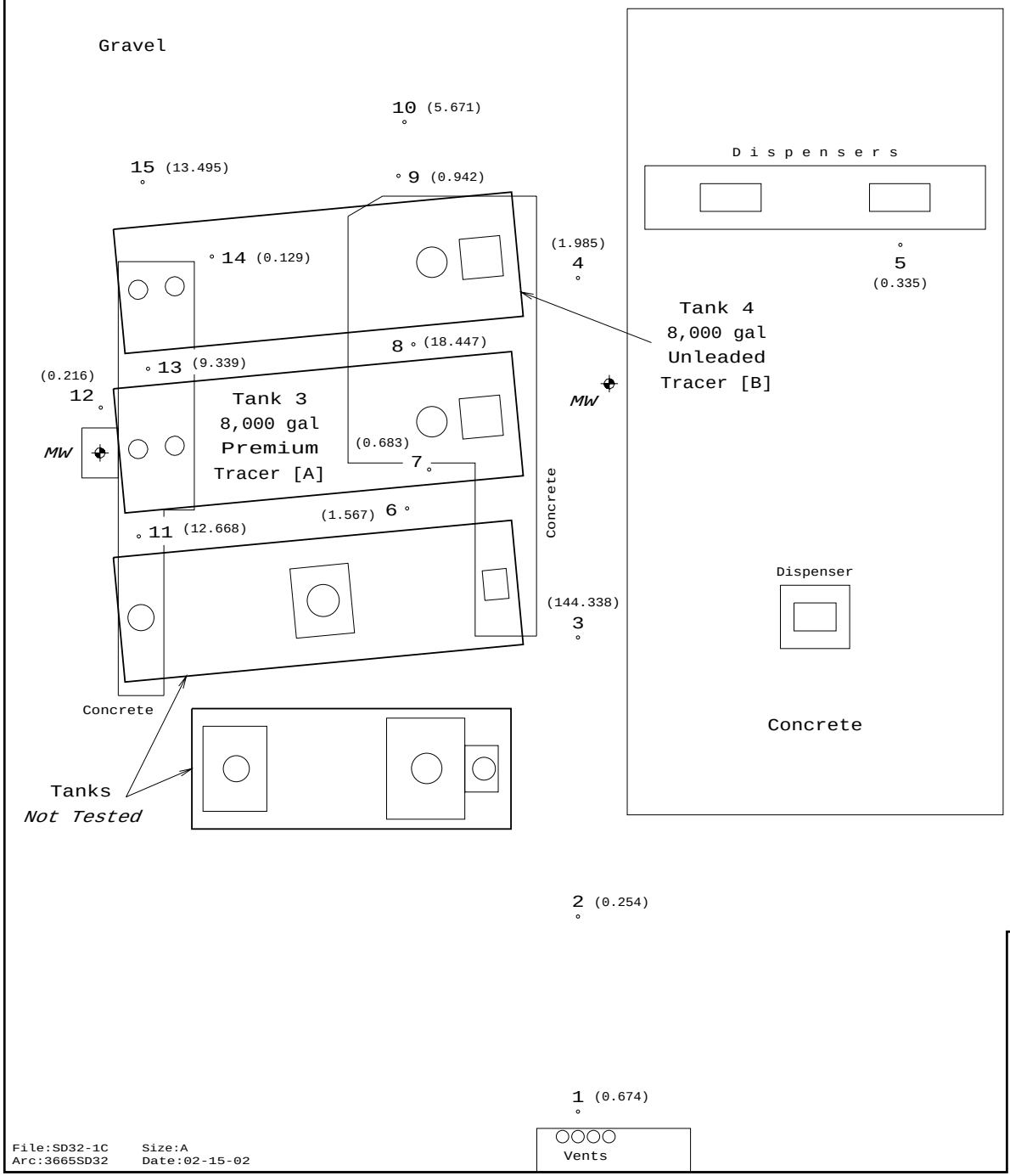
North

0 5 10
feet

Site SD 32

Tracer [B] Distribution

Tracer Research Corporation



EXPLANATION

·1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect
MW	Monitoring Well Location

N

0 5 10

feet

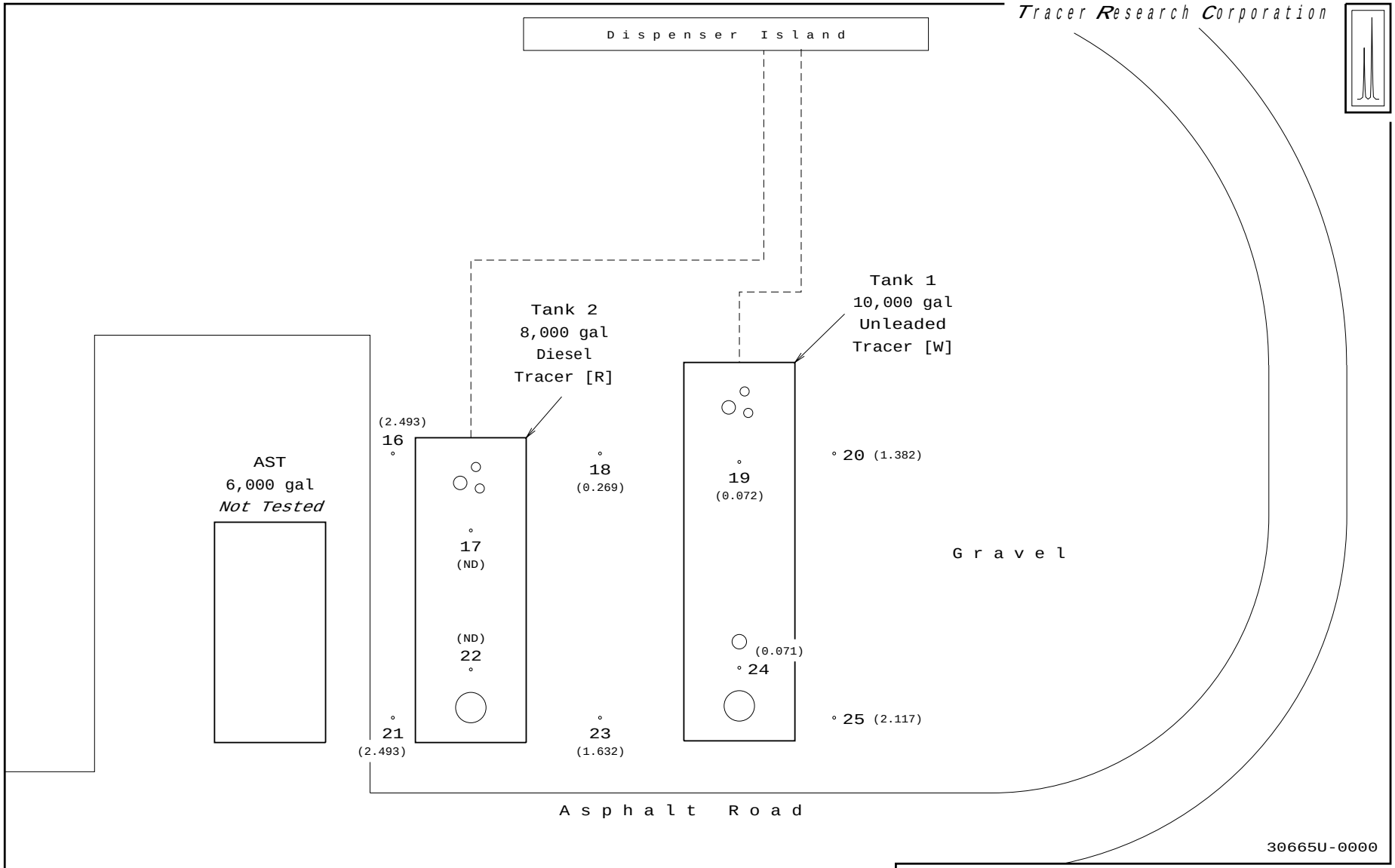
30665U-0000

Site SD 32

T V H C Distribution

File:SD32-1C Size:A
Arc:3665SD32 Date:02-15-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

File:SD32-2C Size:A
Arc:3665SD32 Date:02-15-02

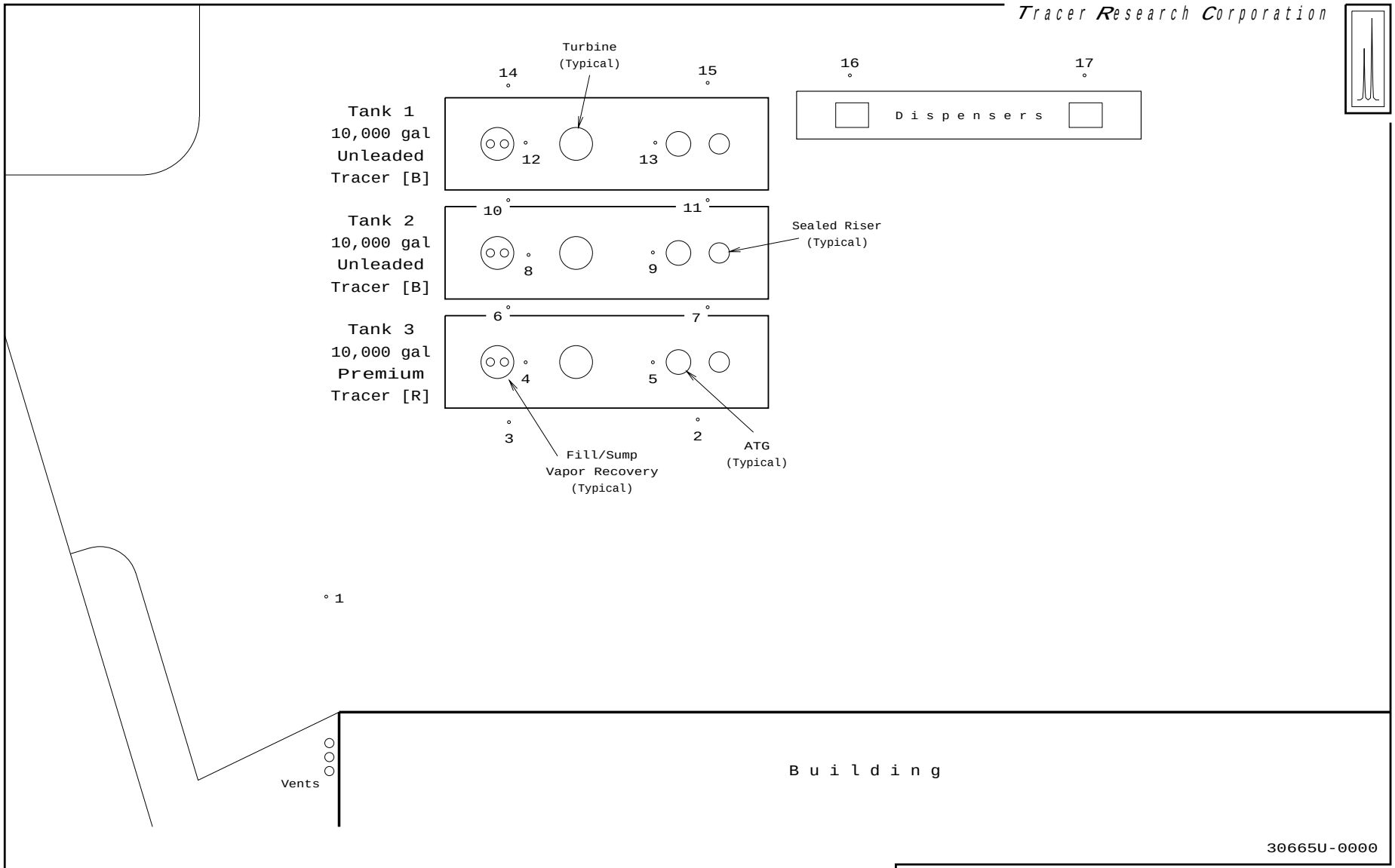
North

0 5 10
feet

Site SD 32

TVHC Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1 Sampling Probe Location

-------- Approximate Pipeline Location

N

0 6 12

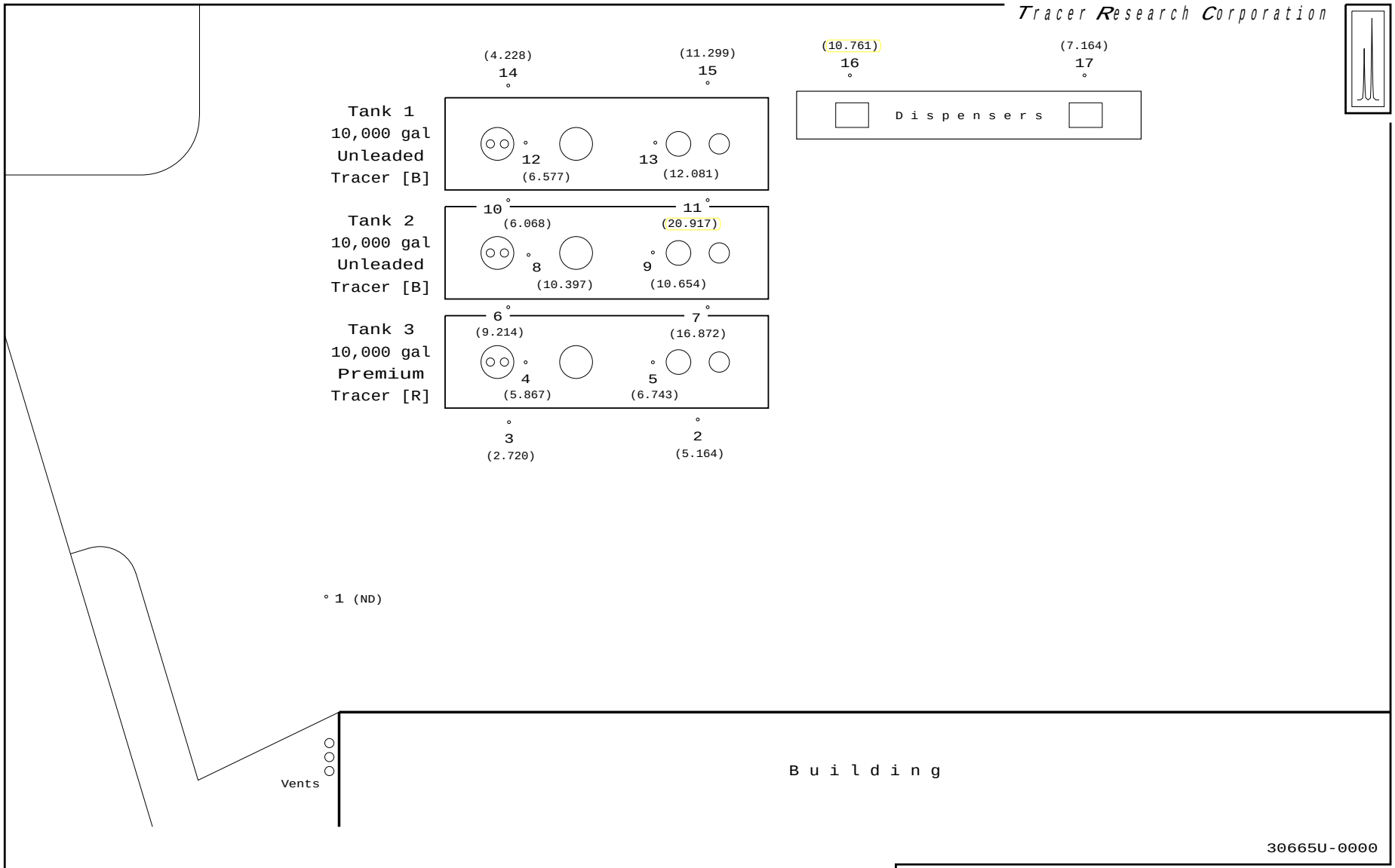
feet

File:SD33-01 Size:A
Arc:3665SD-33 Date:02-07-02

Site SD 33

SAMPLING LOCATIONS

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

0 6 12

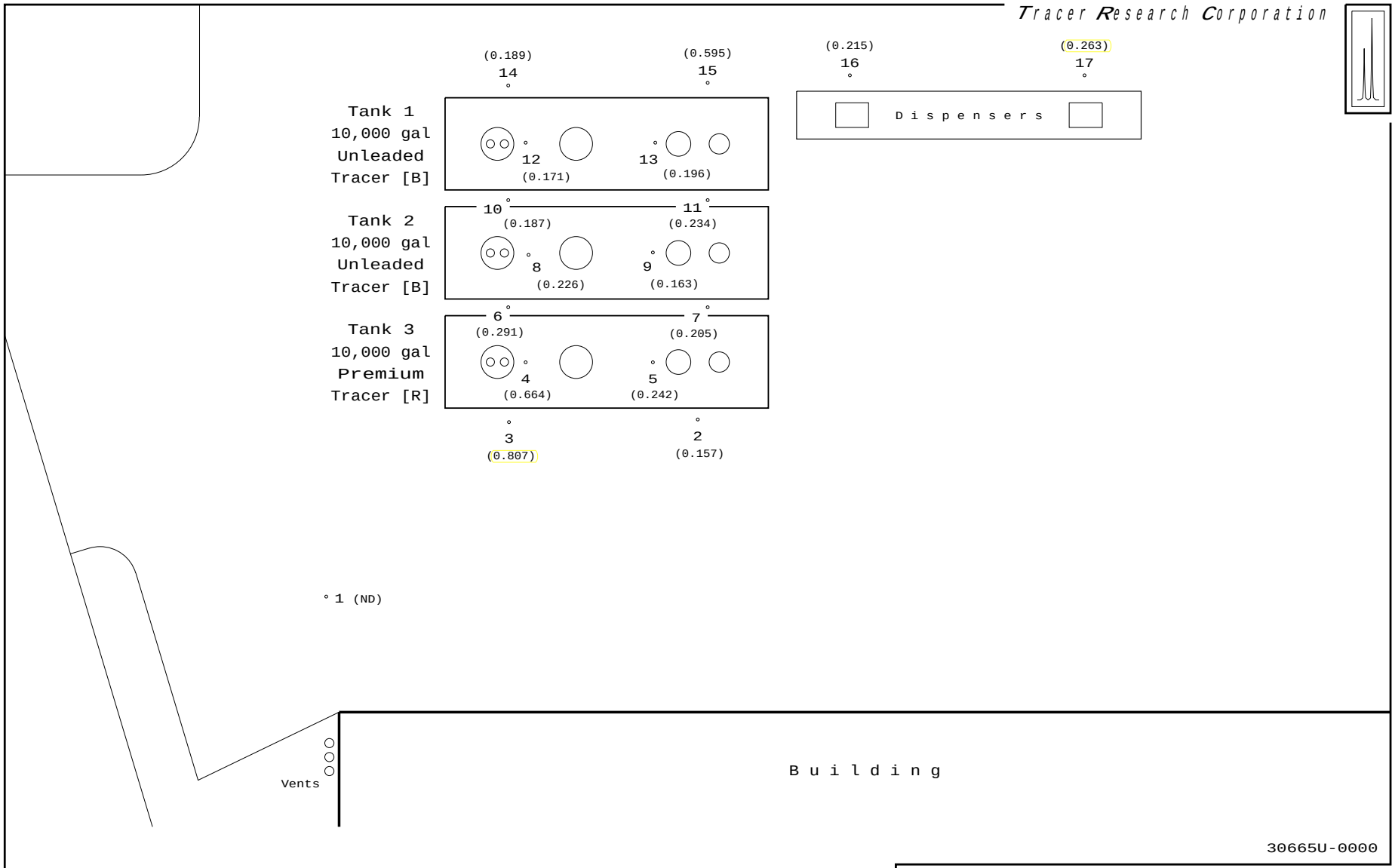
feet

File:SD33-1A Size:A
Arc:3665SD-33 Date:02-07-02

Site SD 33

Tracer [B] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

N

0 6 12

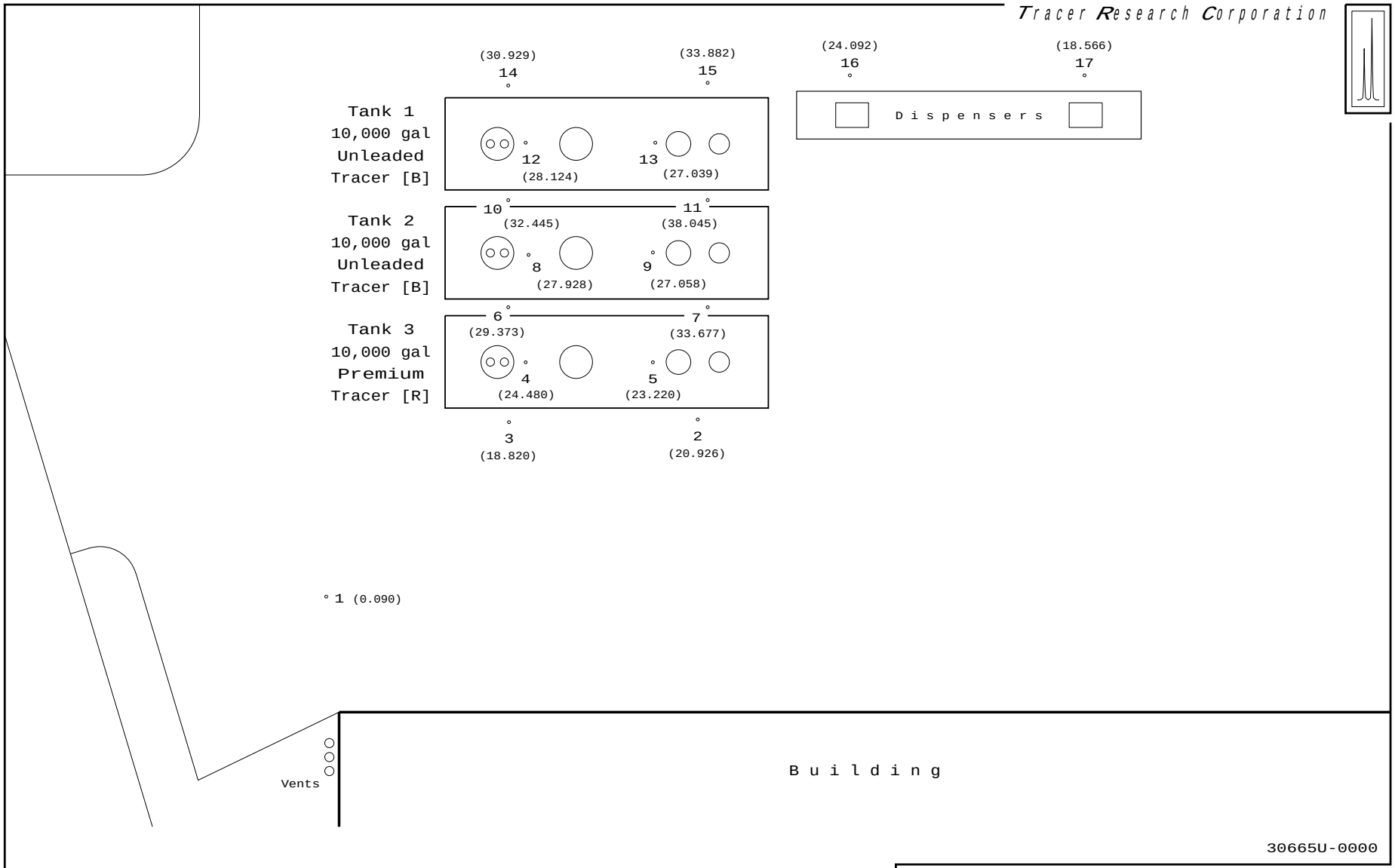
feet

File:SD33-1B Size:A
Arc:3665SD-33 Date:02-07-02

Site SD 33

Tracer [R] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

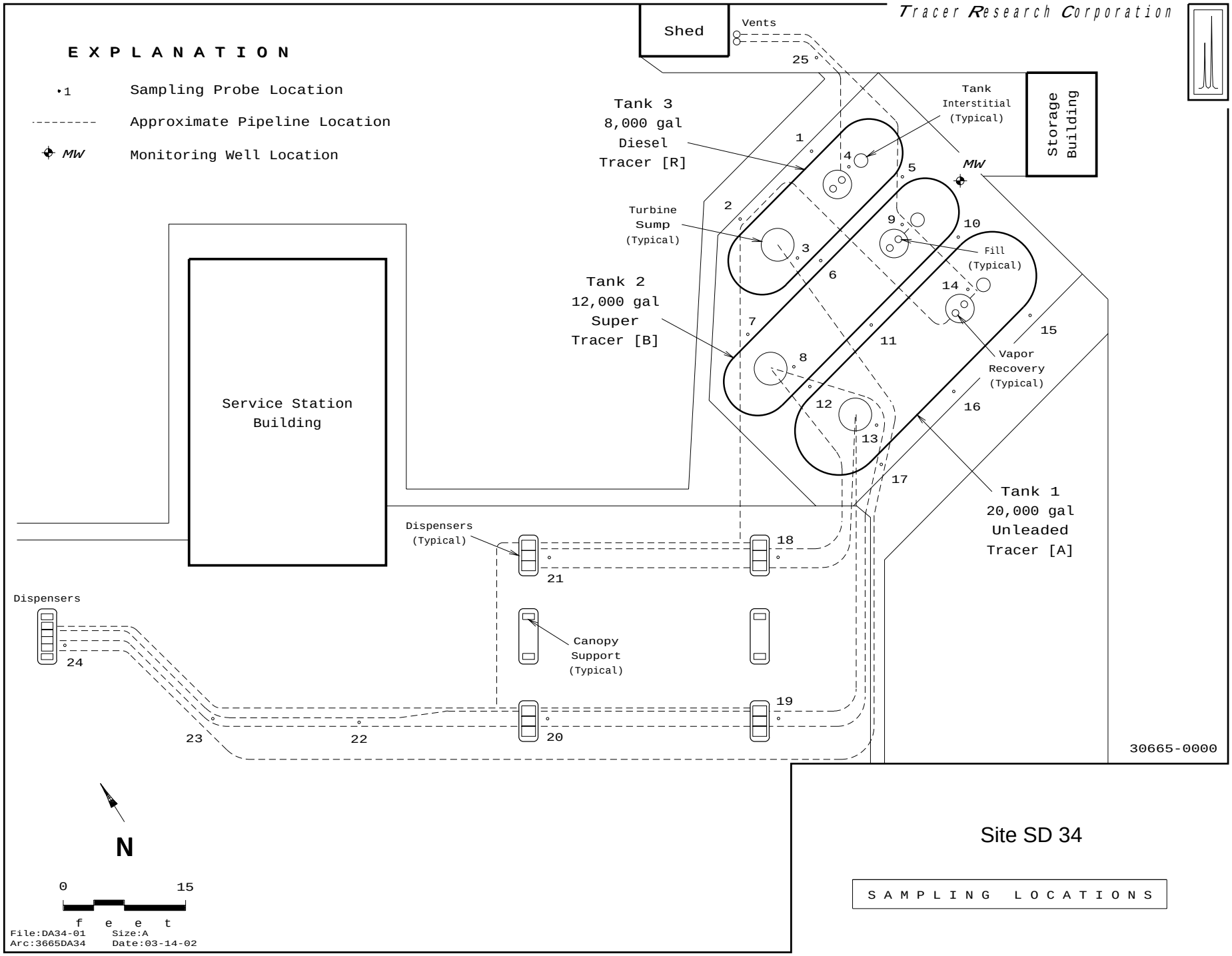
0 6 12

feet

File:SD33-1C Size:A
Arc:3665SD-33 Date:02-07-02

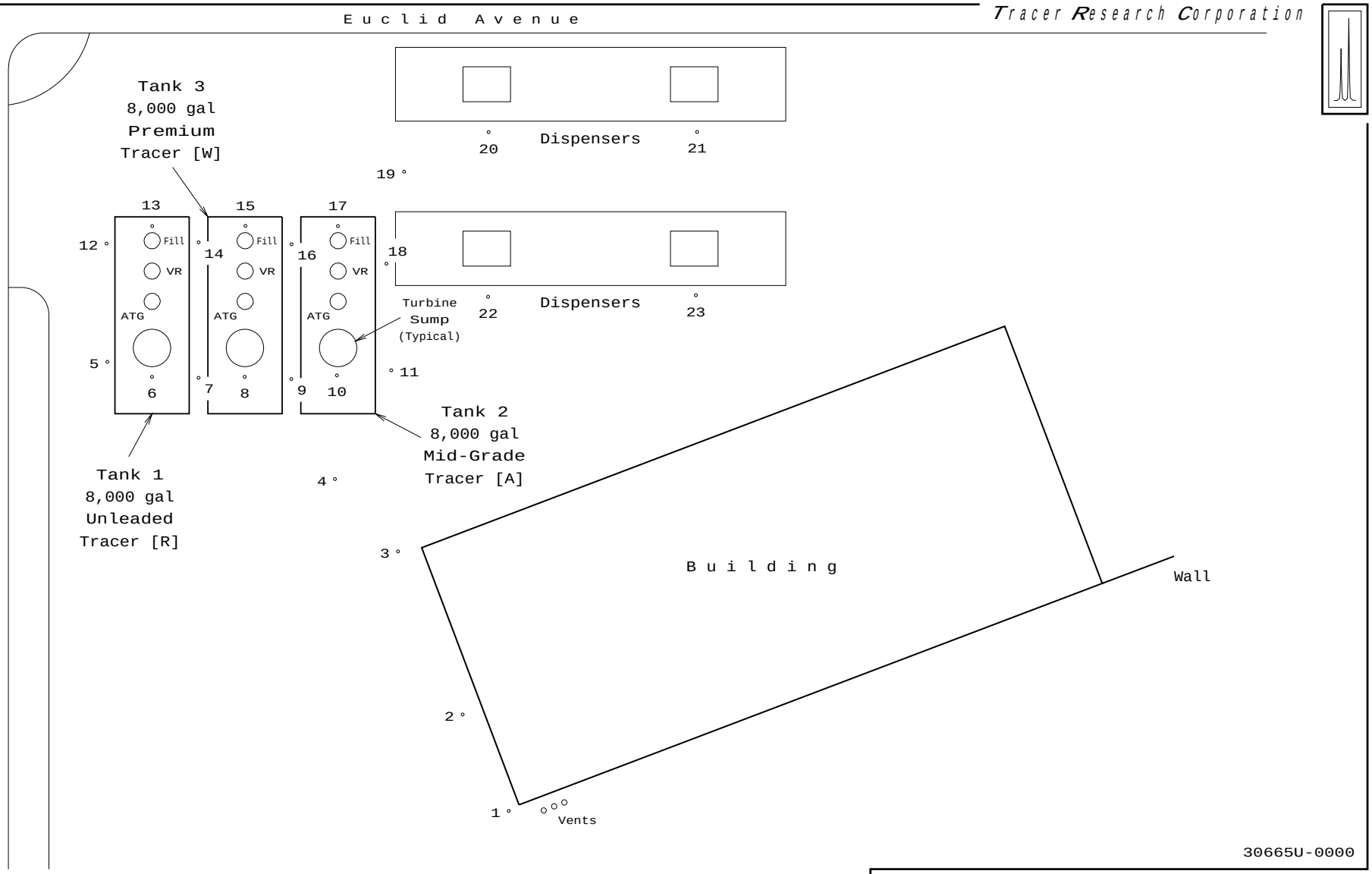
Site SD 33

TVHC Distribution



Site SD 34

SAMPLING LOCATIONS



EXPLANATION

•1 Sampling Probe Location

– – – – – Approximate Pipeline Location

North

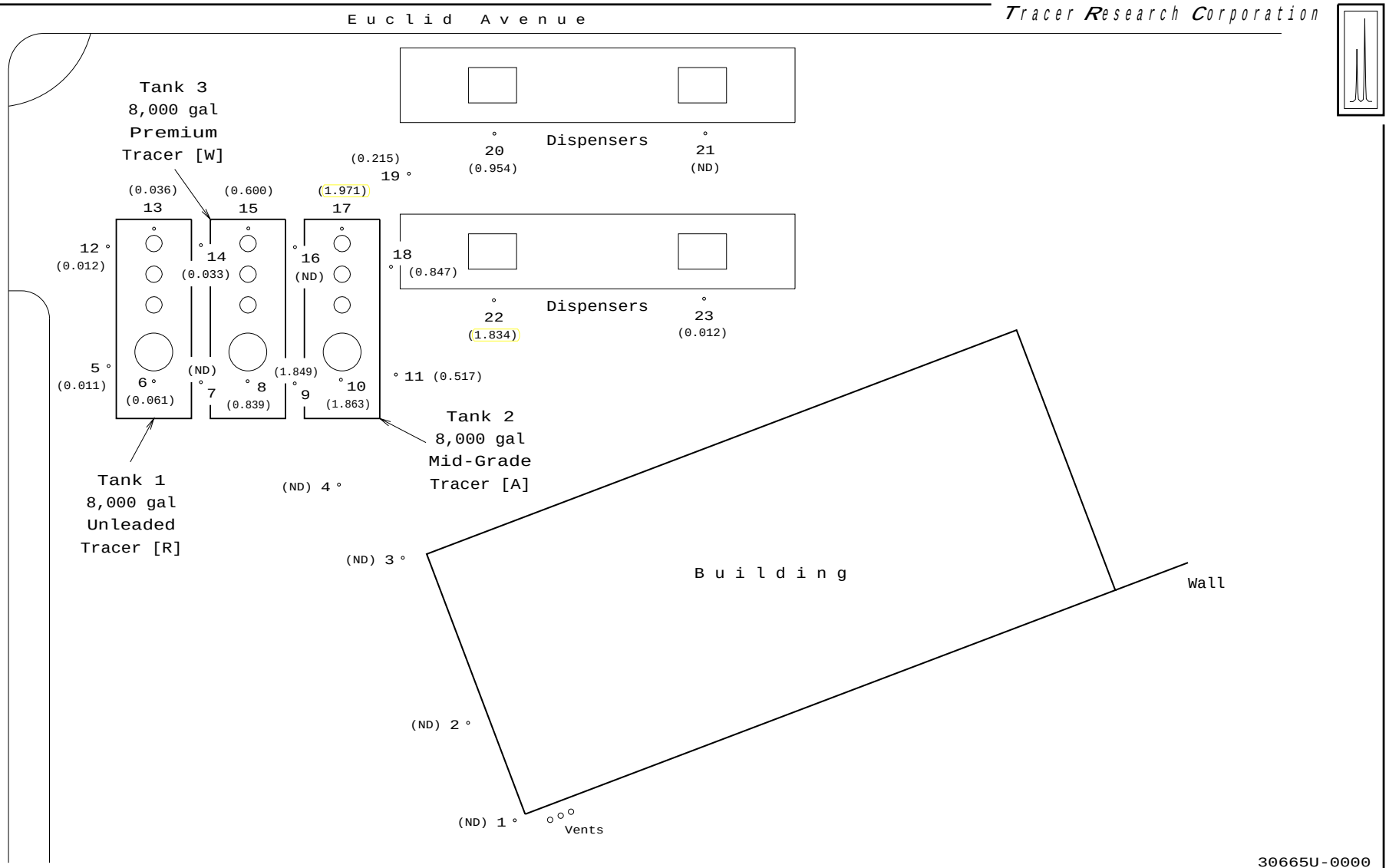
0 15

f e e t

File:SD37-01 Size:A
Arc:3665SD37 Date:01-24-02

Site SD 37

SAMPLING LOCATIONS



EXPLANATION

•1	Sampling Probe Location
– – – – –	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

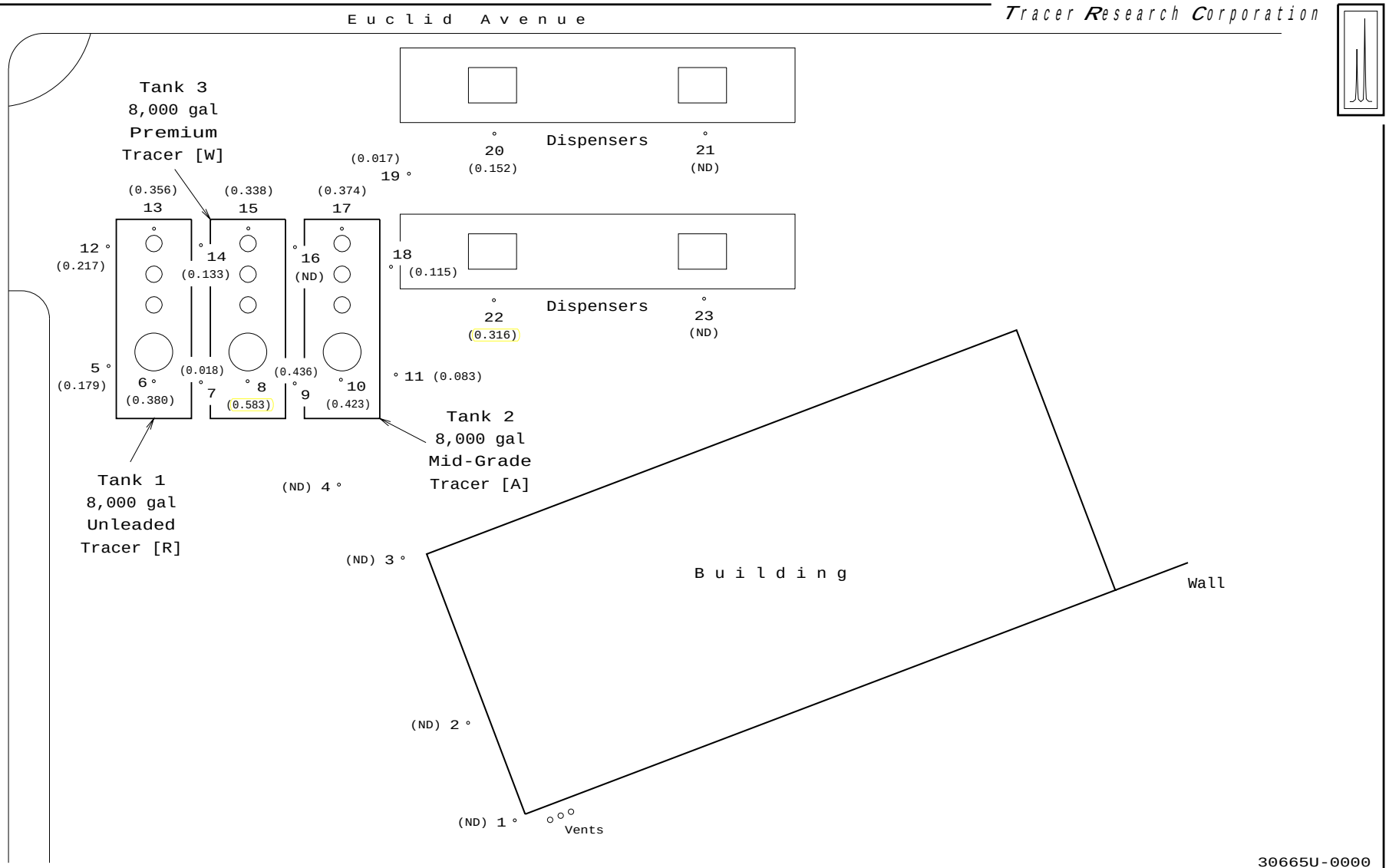
North

0 15
feet

File:SD37-1A
Arc:3665SD37
Size:A
Date:01-24-02

Site SD 37

Tracer [A] Distribution



EXPLANATION

•1	Sampling Probe Location
– – – – –	Approximate Pipeline Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

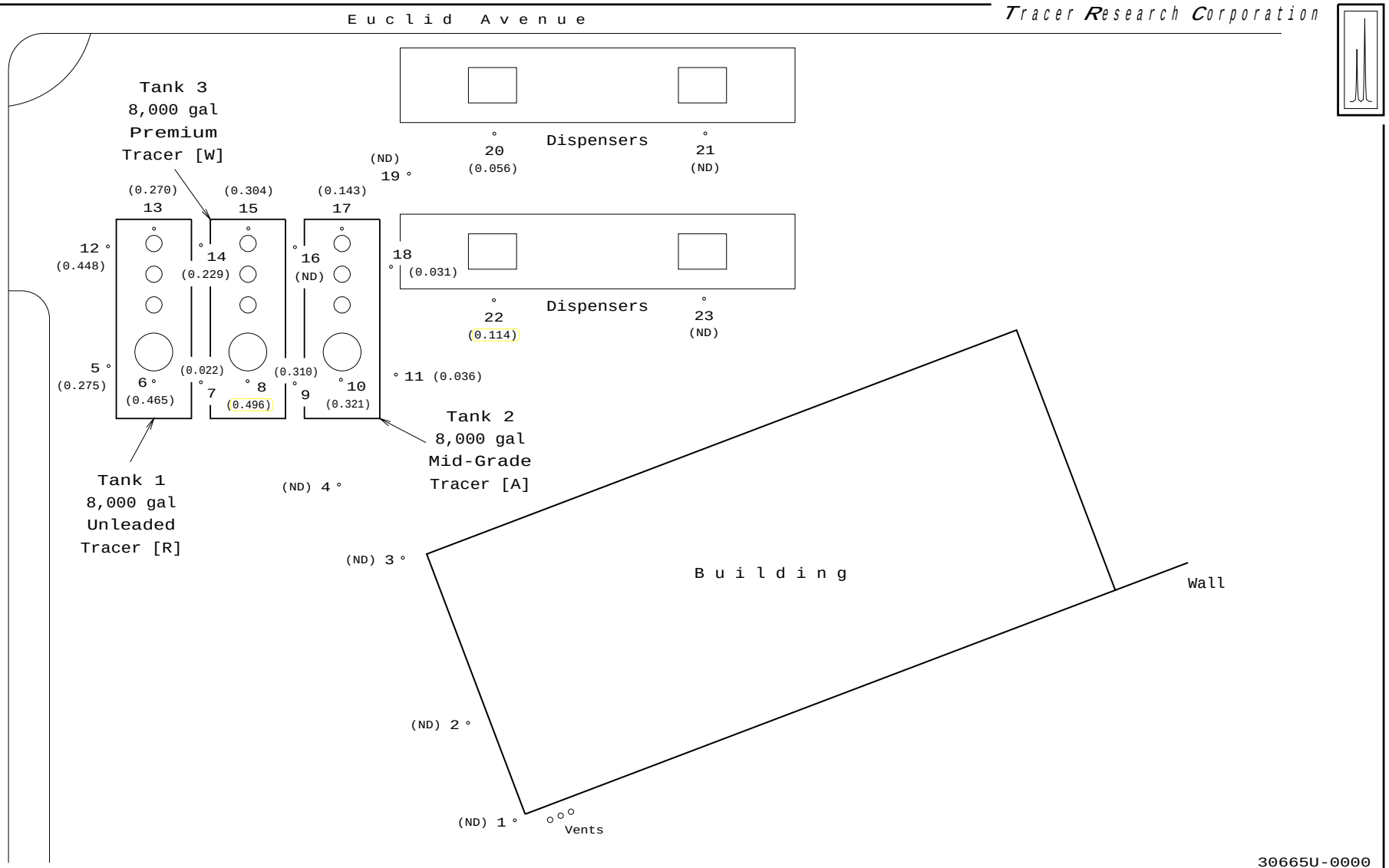
North

0 15
feet

File:SD37-1B Size:A
Arc:3665SD37 Date:01-24-02

Site SD 37

Tracer [W] Distribution



EXPLANATION

•1	Sampling Probe Location
– – – – –	Approximate Pipeline Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

North

0 15

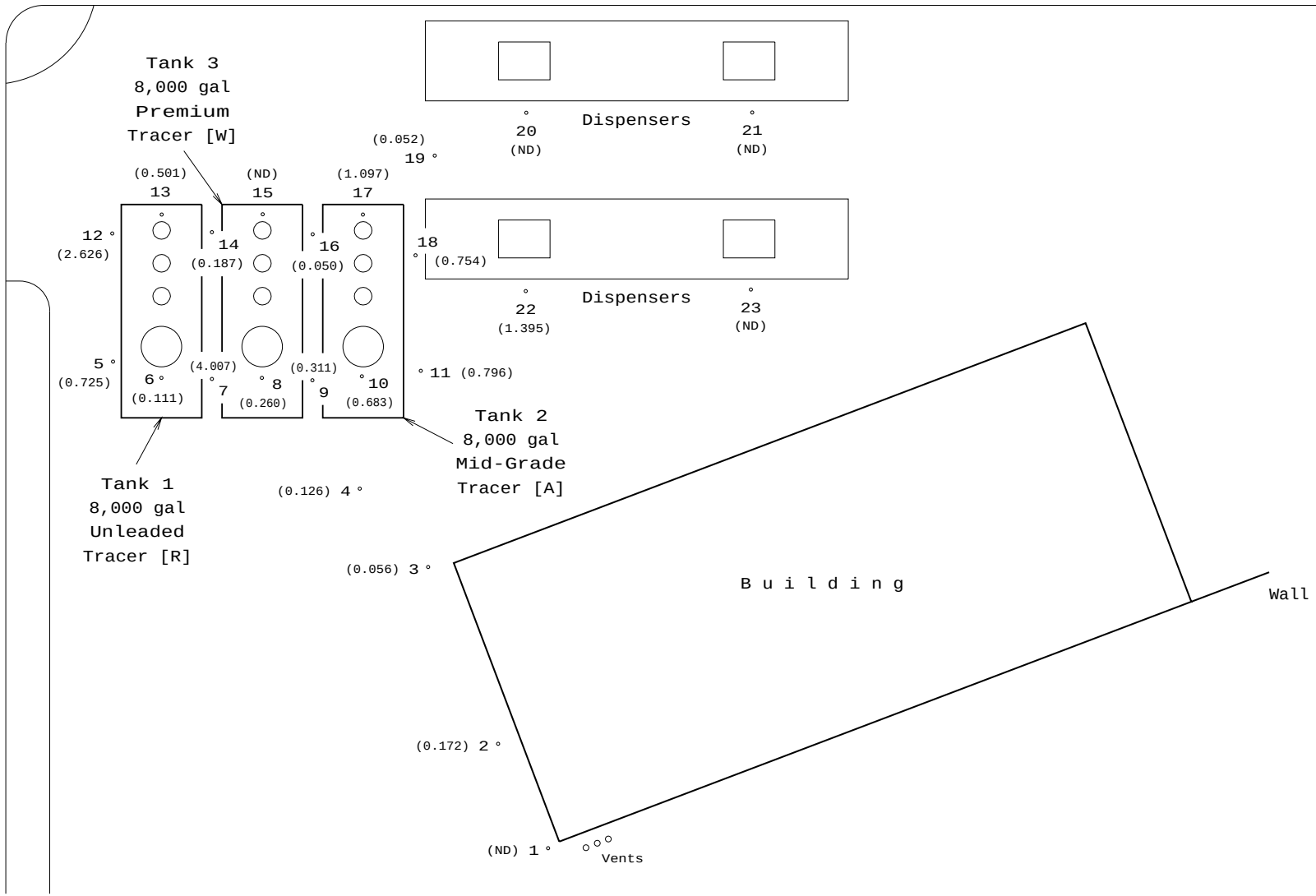
feet

File:SD37-1C Size:A
Arc:3665SD37 Date:01-24-02

Site SD 37

Tracer [R] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
– – – – –	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

North

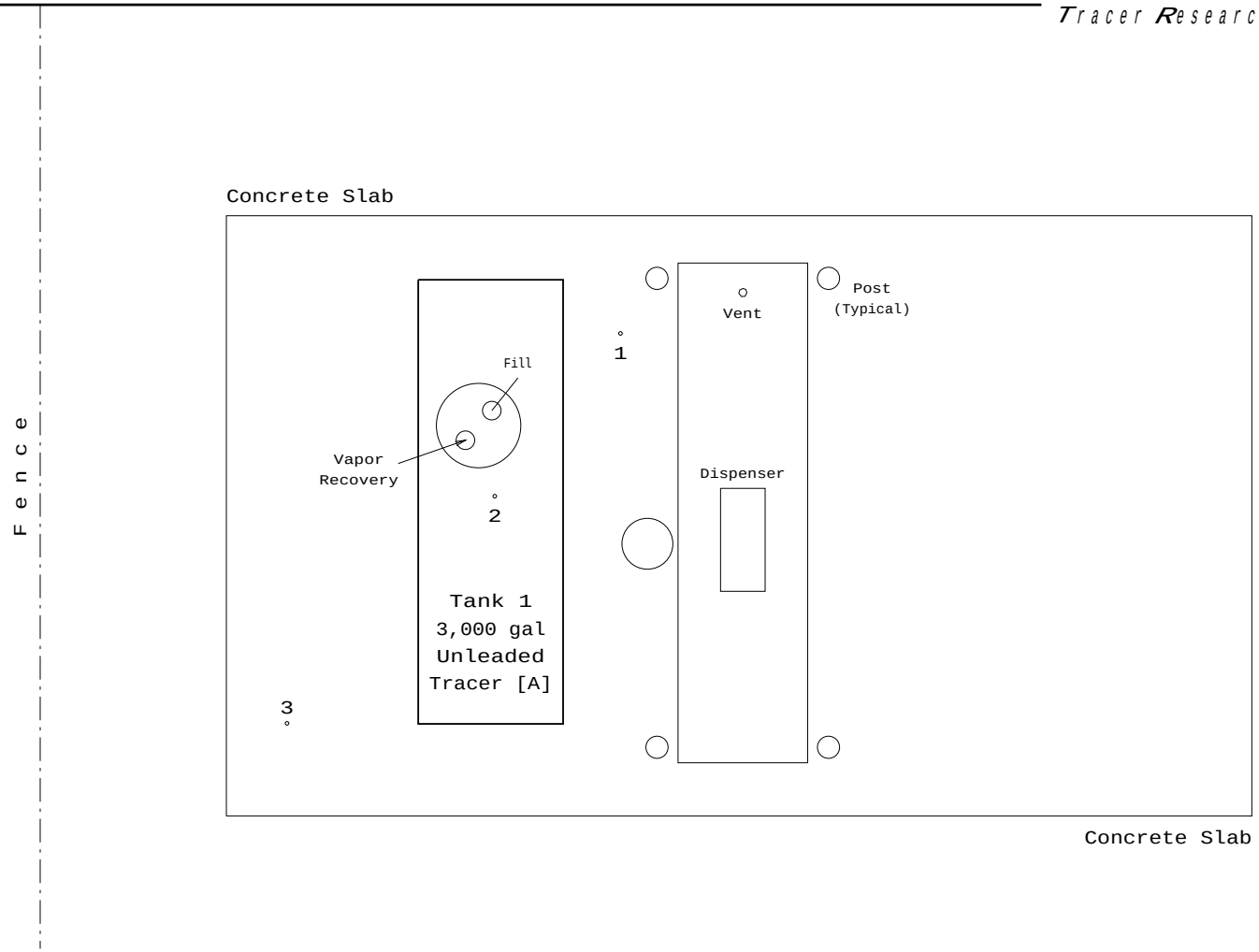
0 15
feet

File:SD37-1D Size:A
Arc:3665SD37 Date:01-24-02

Site SD 37

TVHC Distribution

Tracer Research Corporation



30665U-0000

N

0 2 4
f e e t

EXPLANATION

•1 Sampling Probe Location

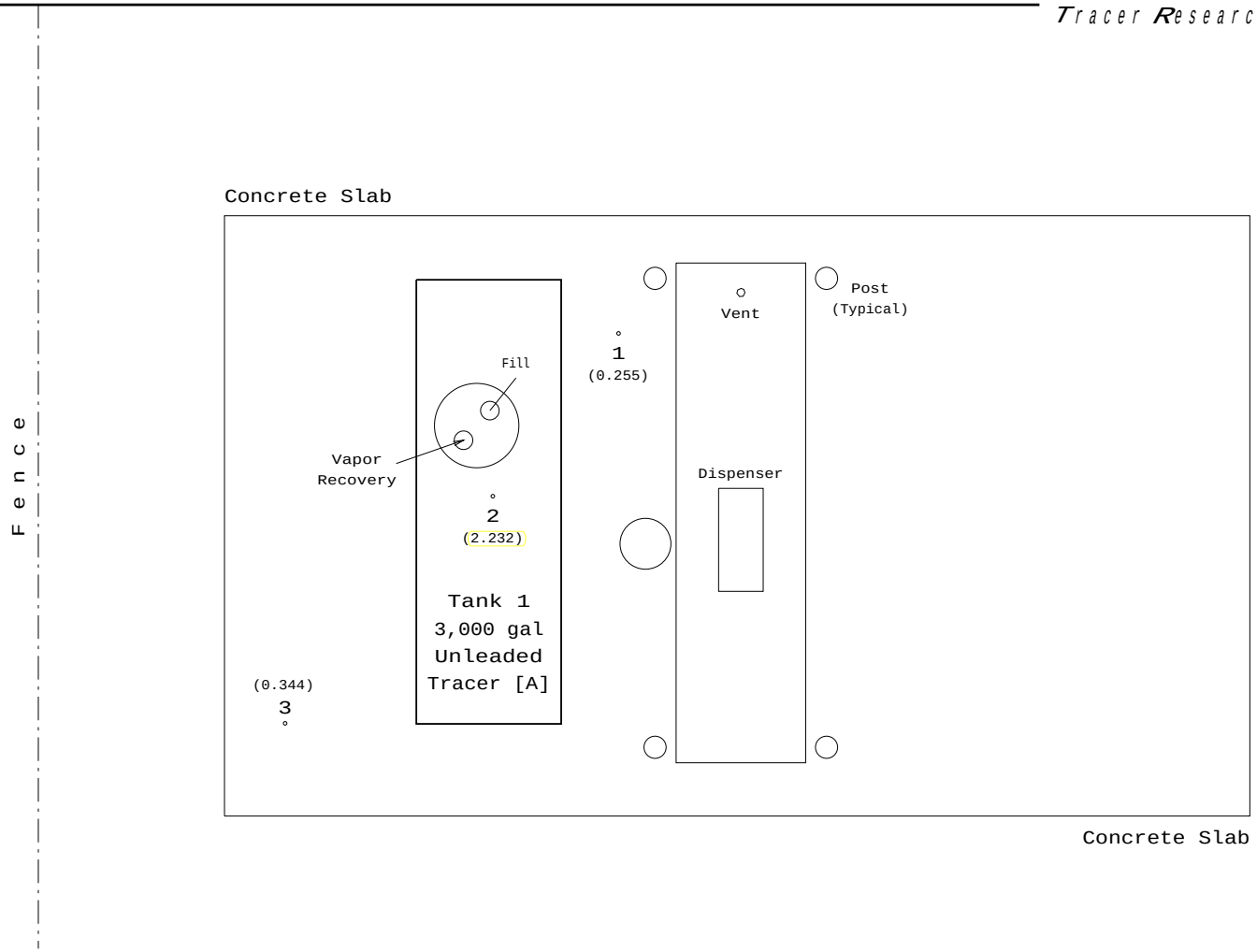
------ Approximate Pipeline Location

File:SD40-01 Size:A
Arc:3665SD-40 Date:02-07-02

Site SD 40

SAMPLING LOCATIONS

Tracer Research Corporation



30665U-0000

E X P L A N A T I O N

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 2 4

f e e t

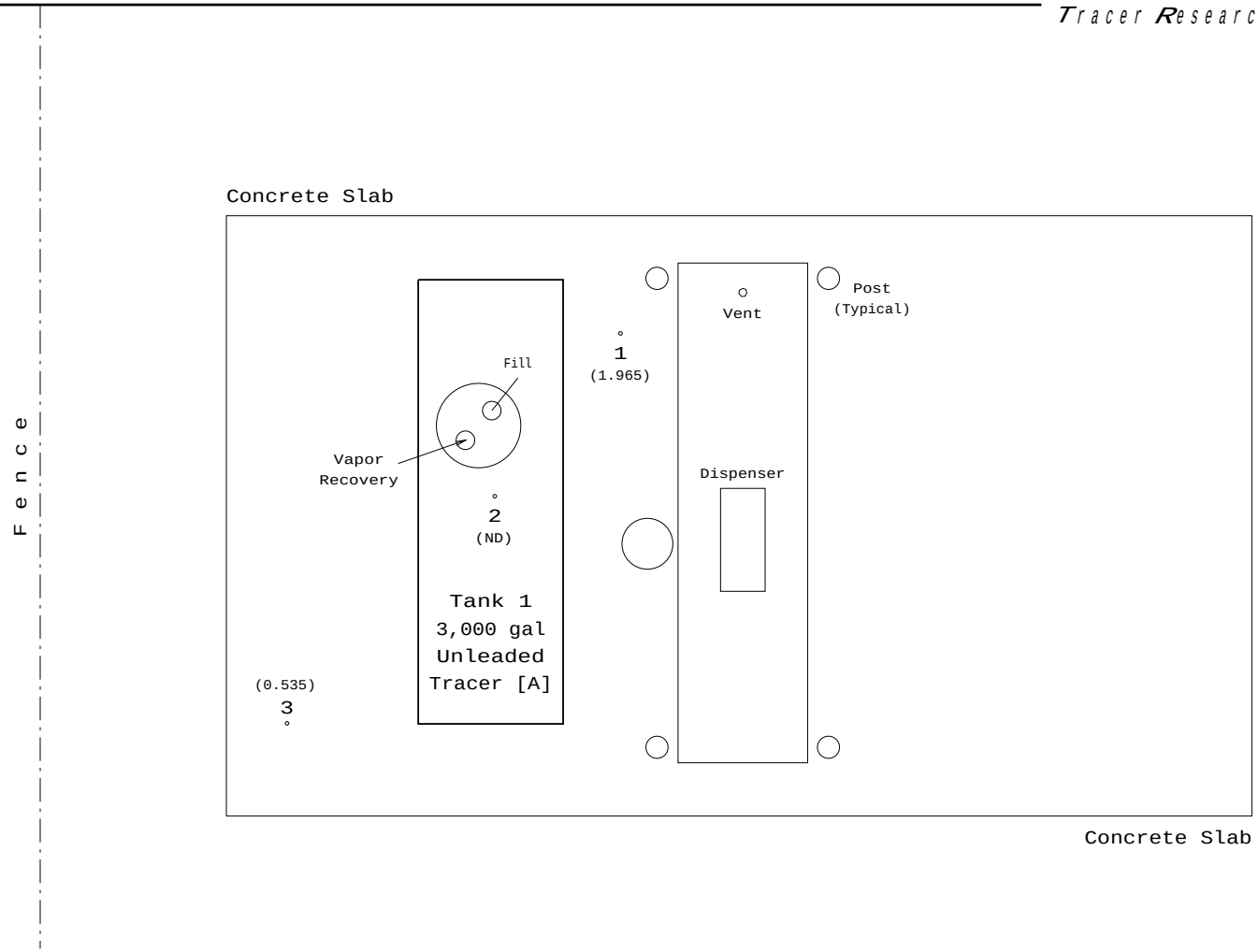
File:SD40-1A
Arc:3665SD-40

Size:A
Date:02-07-02

Site SD 40

Tracer [A] Distribution

Tracer Research Corporation



30665U-0000

E X P L A N A T I O N

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 2 4

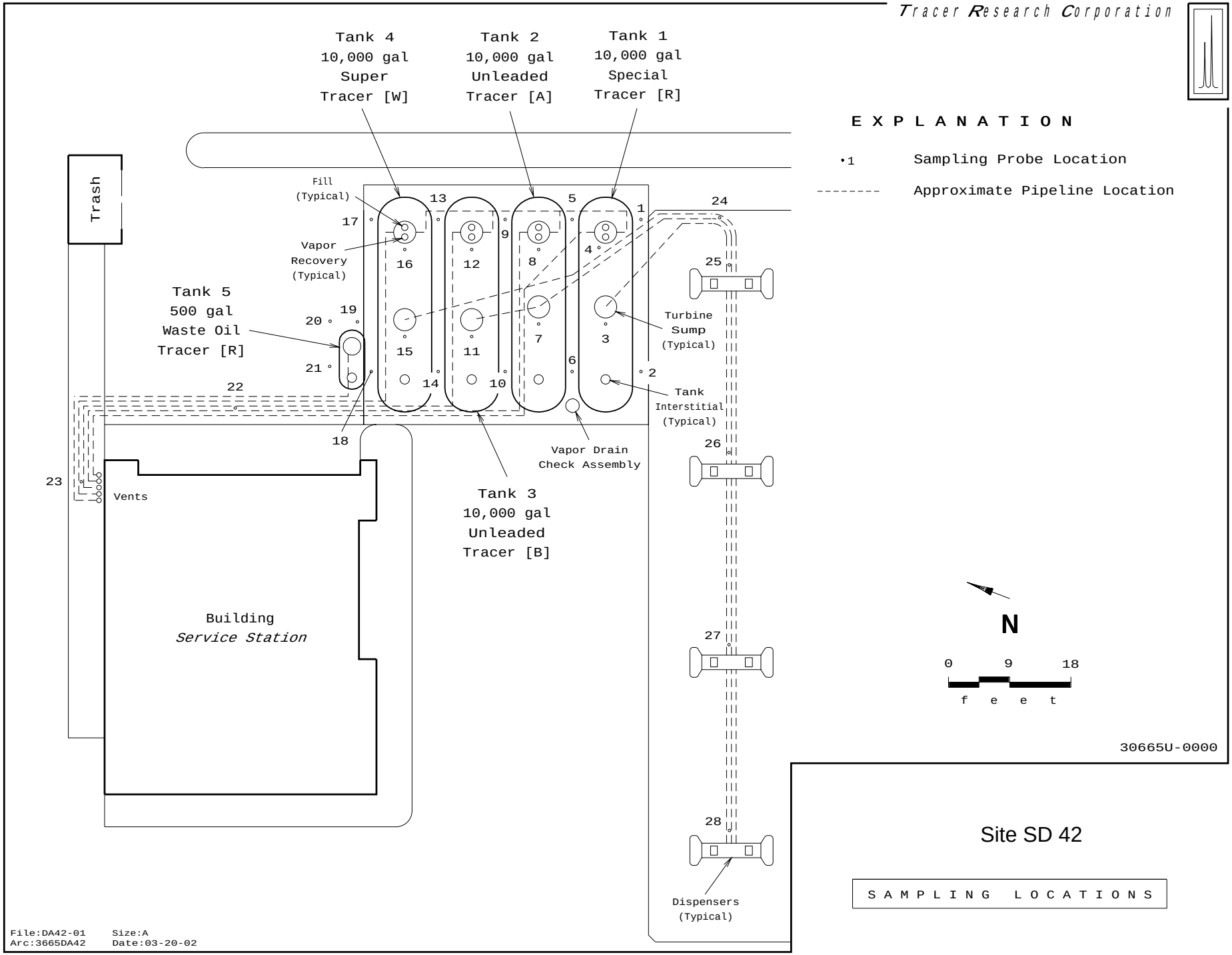
f e e t

File:SD40-1B Size:A
Arc:3665SD-40 Date:02-07-02

Site SD 40

T V H C D i s t r i b u t i o n

Tracer Research Corporation

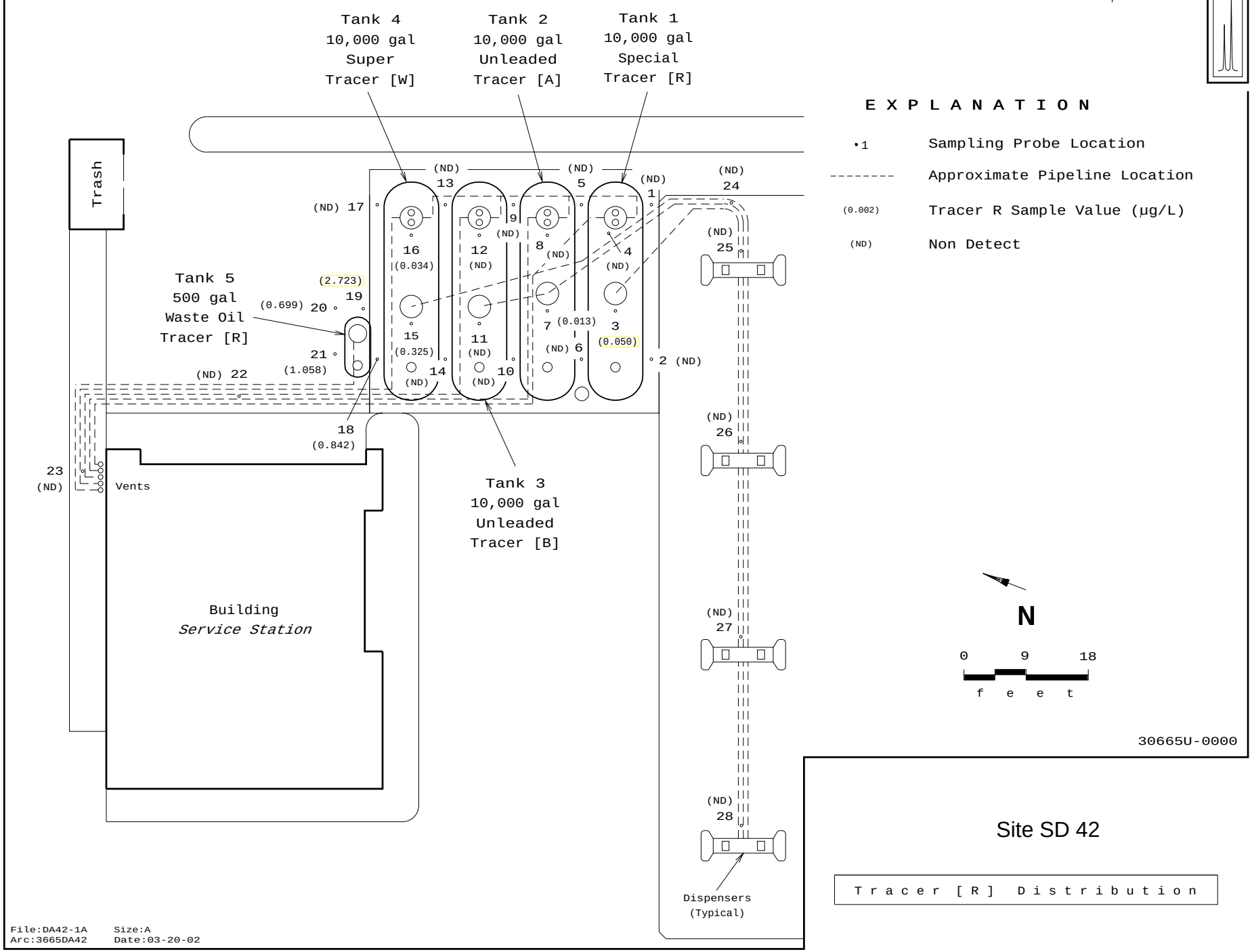


Site SD 42

SAMPLING LOCATIONS

File:DA42-01 Size:A
Arc:3665DA42 Date:03-20-02

Tracer Research Corporation

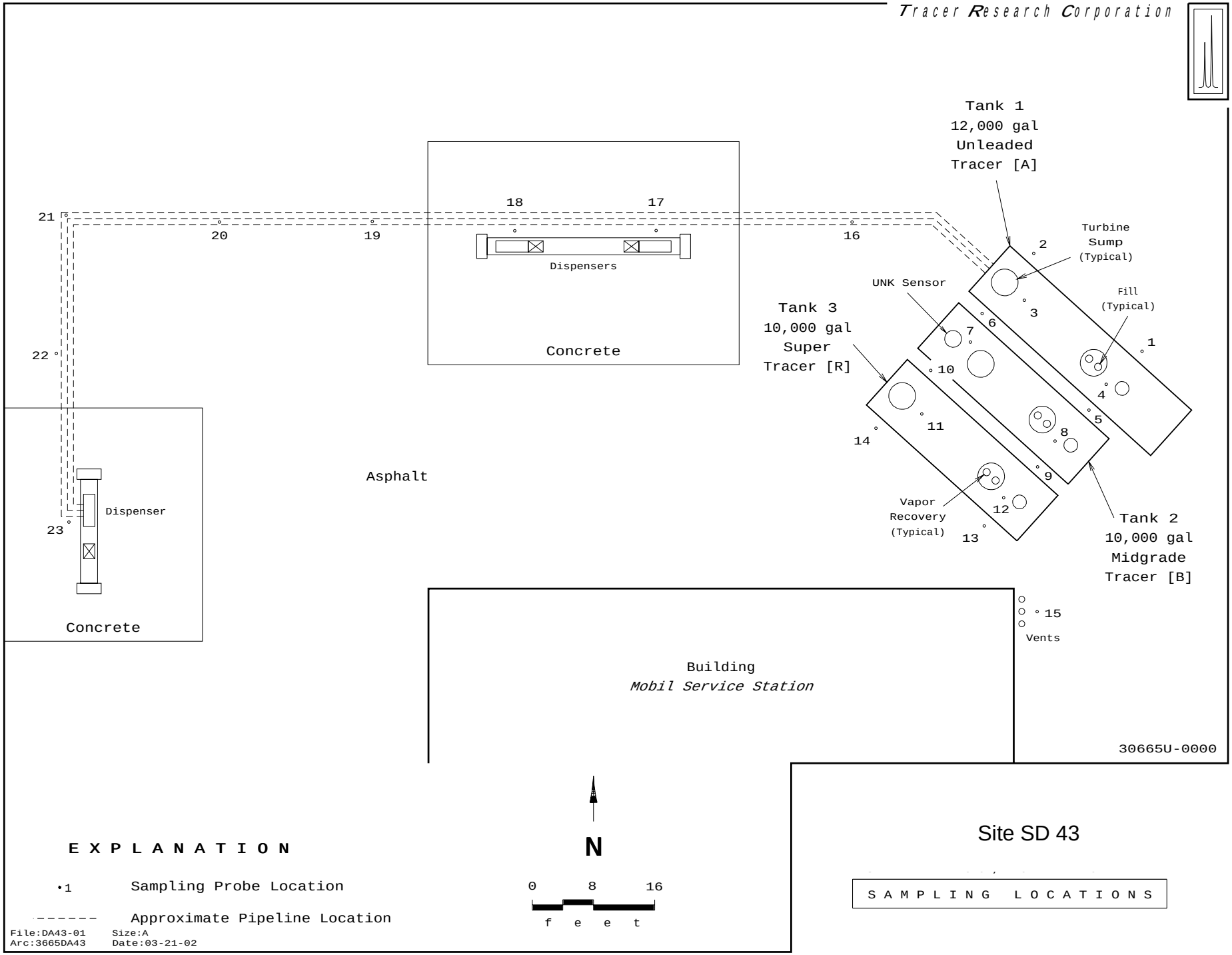


Site SD 42

Tracer [R] Distribution

File:DA42-1A Size:A
Arc:3665DA42 Date:03-20-02

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

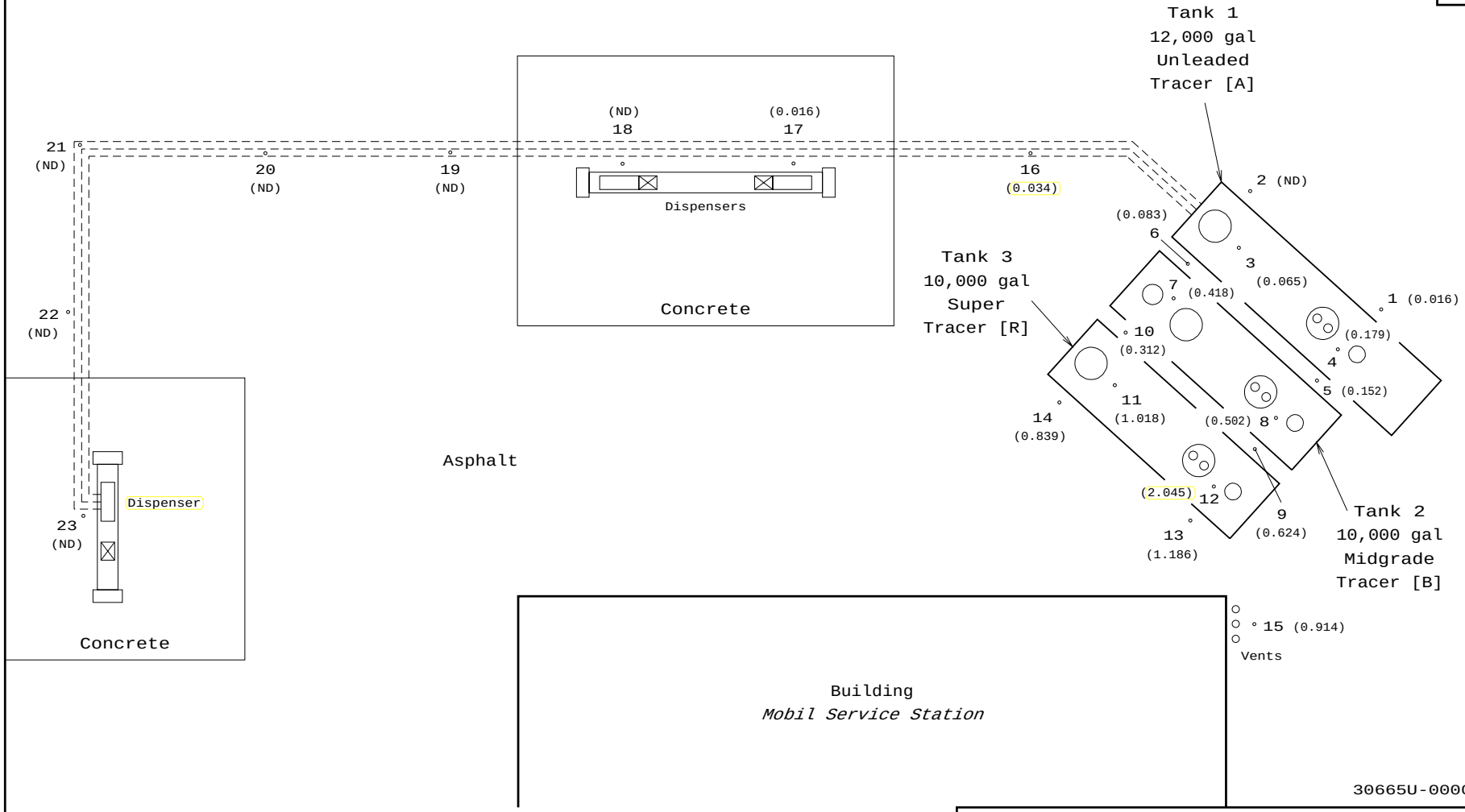
------ Approximate Pipeline Location

File:DA43-01 Size:A
Arc:3665DA43 Date:03-21-02

Site SD 43

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

0 8 16

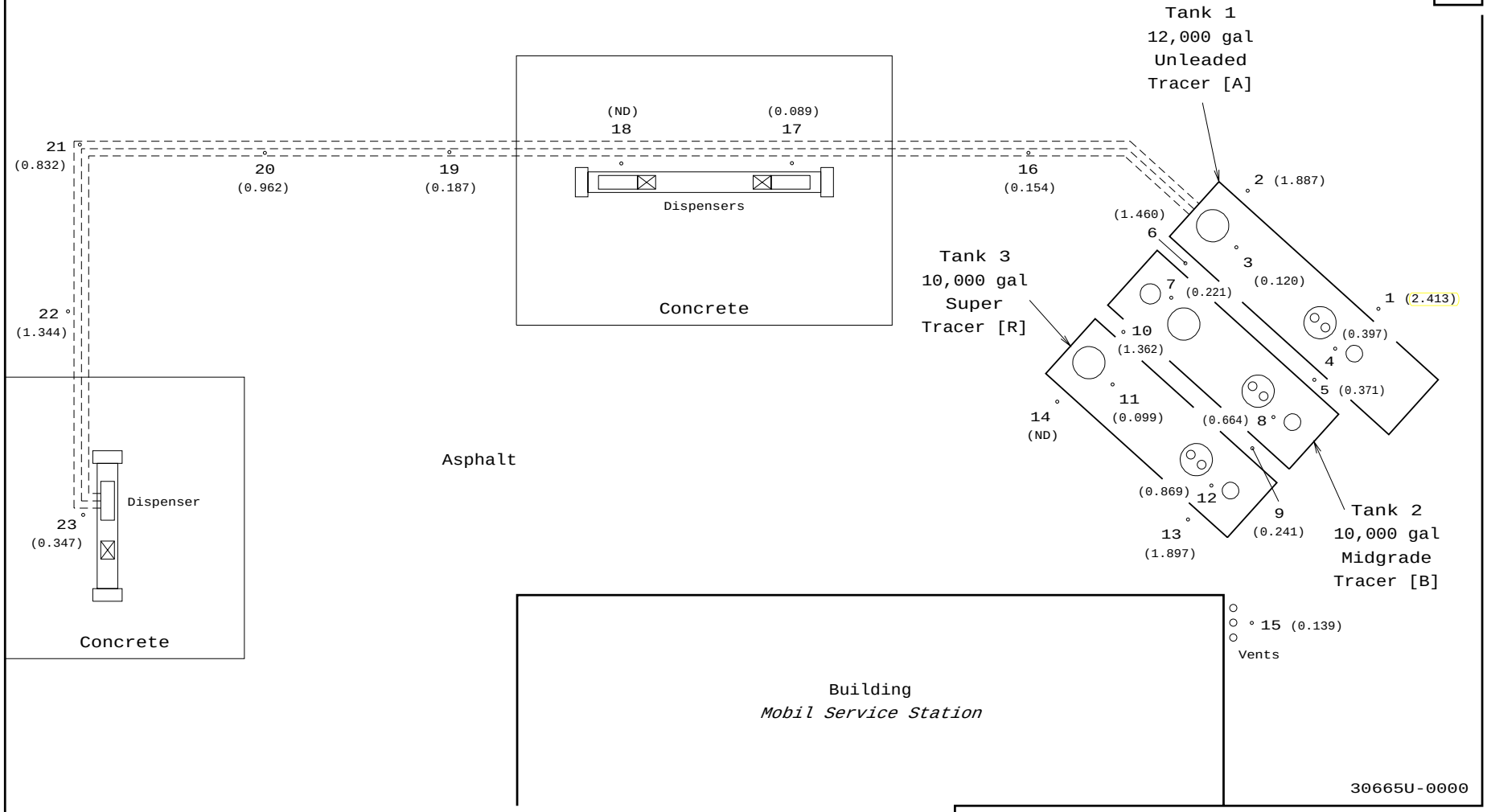
f e e t

File:DA43-1A Size:A
Arc:3665DA43 Date:03-21-02

Site SD 43

Tracer [B] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (ug/L)
(ND)	Non Detect

N

0 8 16

feet

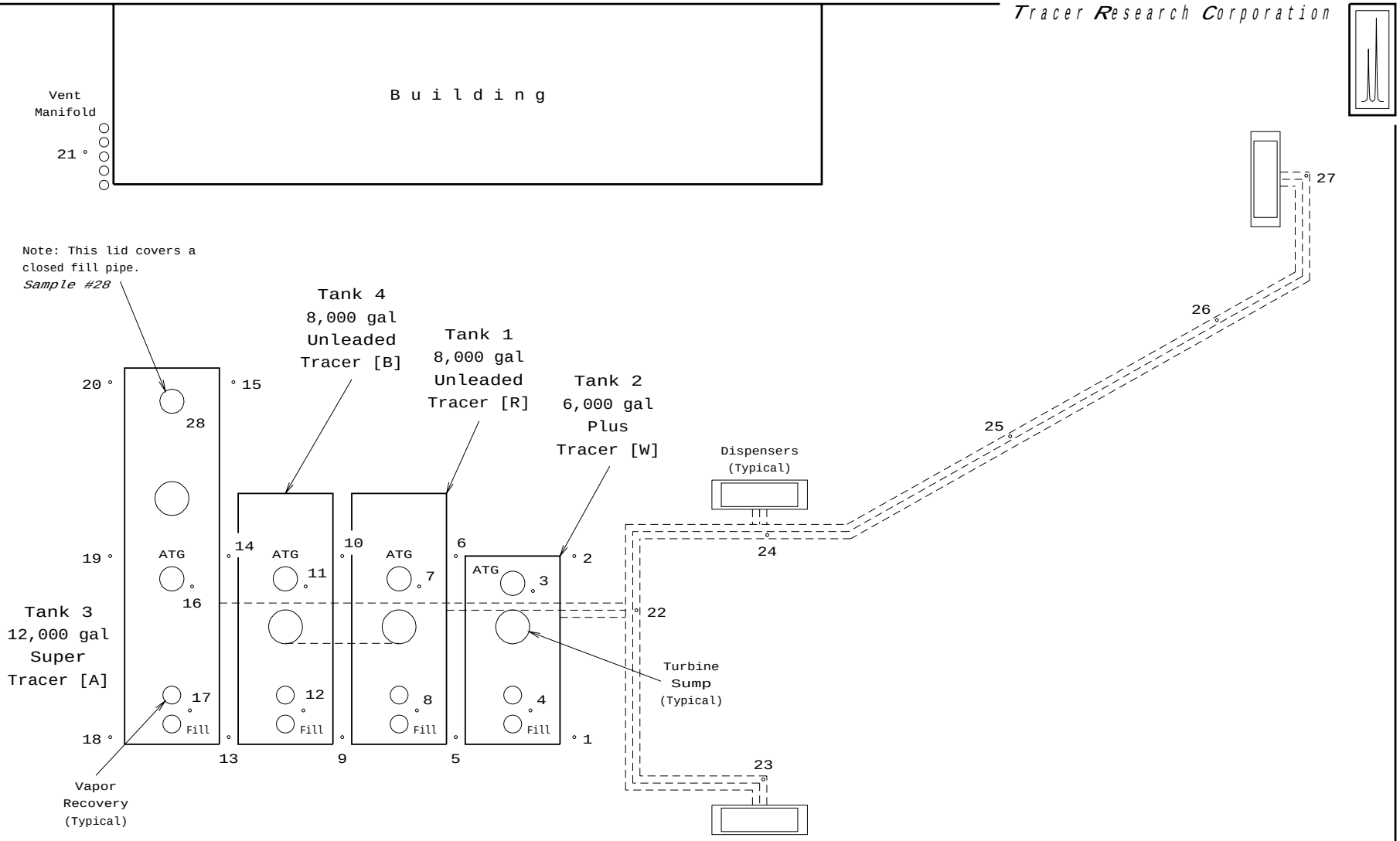
File:DA43-1B
Arc:3665DA43

Size:A
Date:03-21-02

Site SD 43

TVHC Distribution

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

N

0 6 12

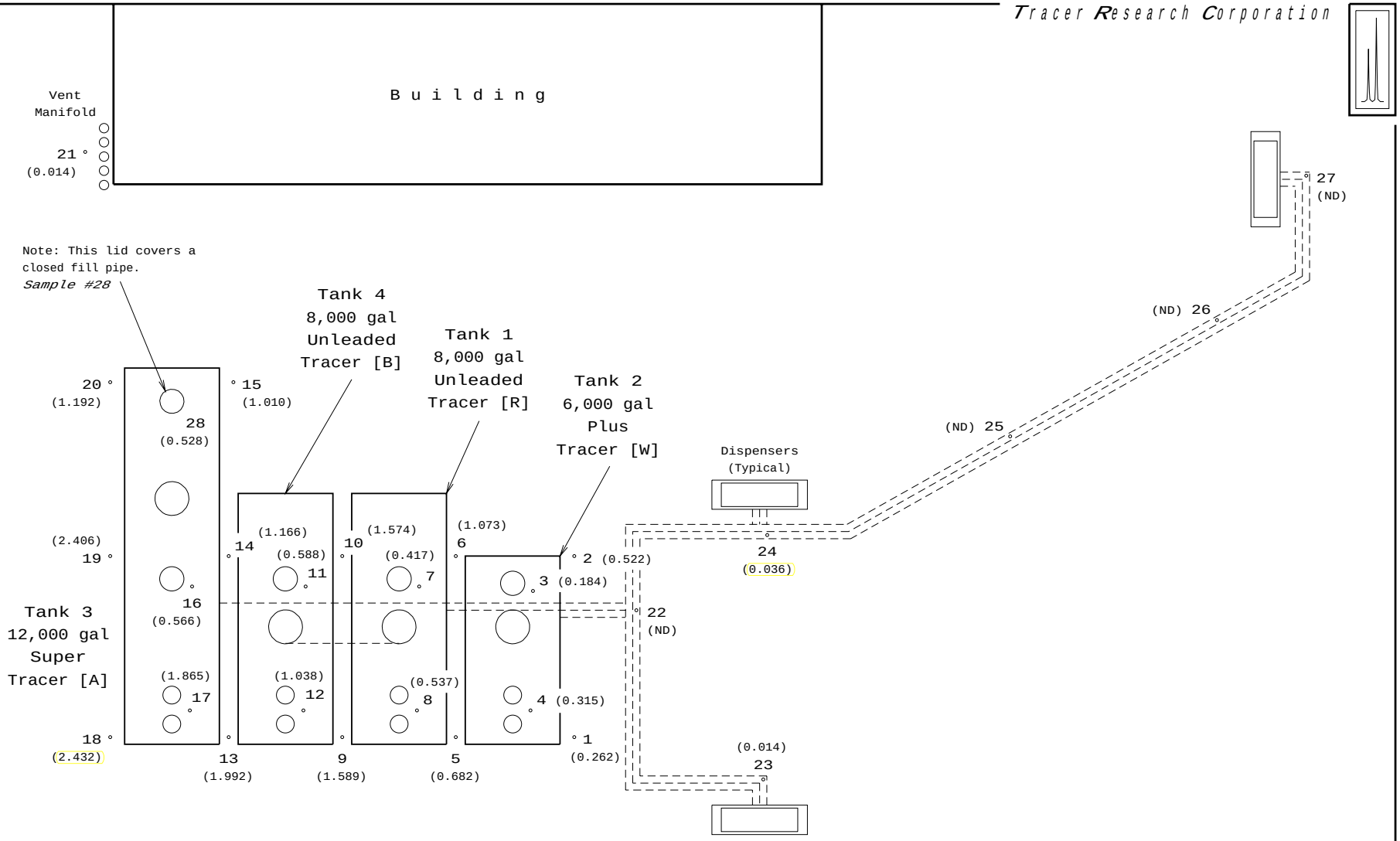
feet

File:DA44-01 Size:A
Arc:3665DA44 Date:03-25-02

Site SD 44

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 6 12

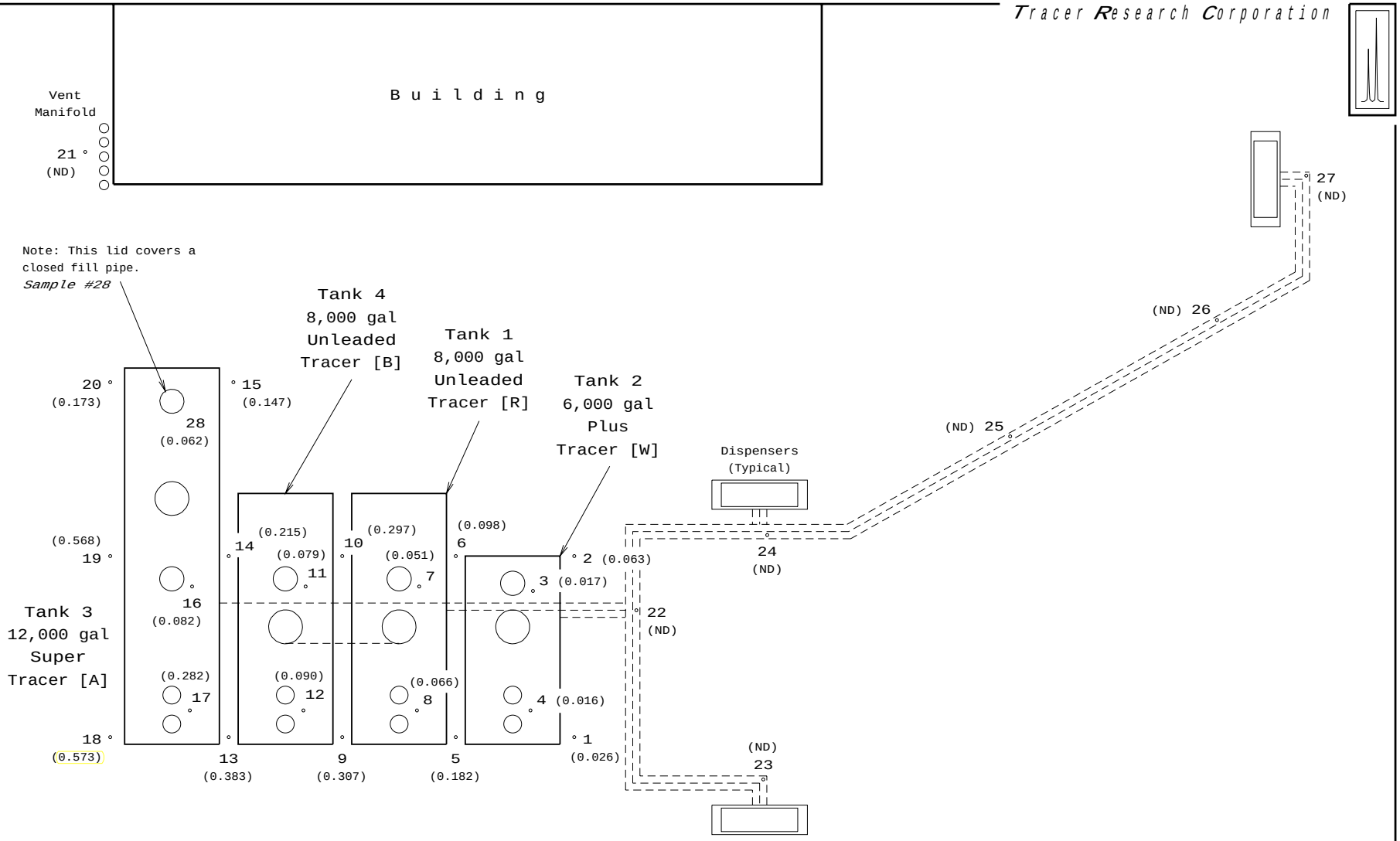
feet

File:DA44-1A Size:A
Arc:3665DA44 Date:03-25-02

Site SD 44

Tracer [A] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

0 6 12

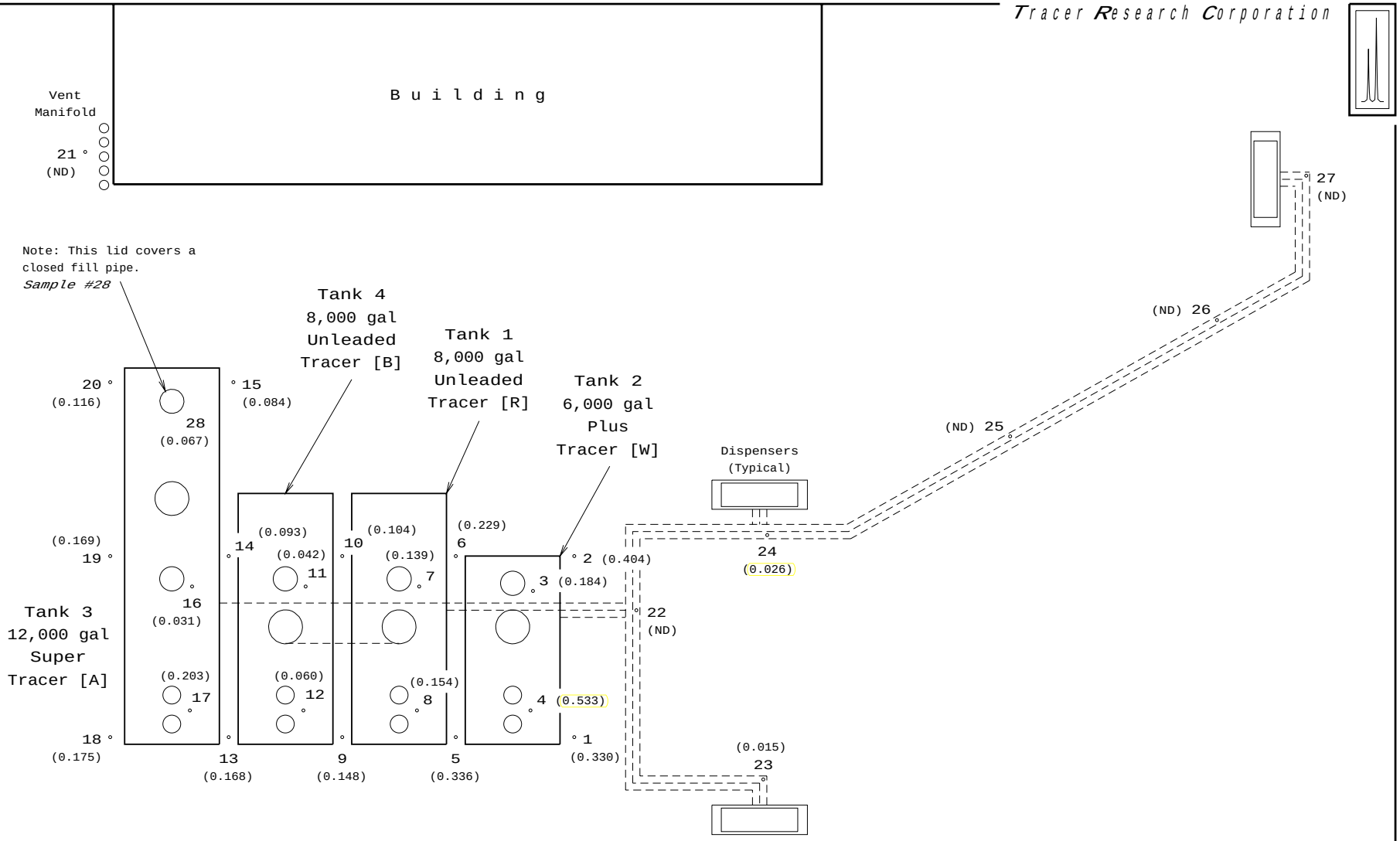
feet

File:DA44-1B Size:A
Arc:3665DA44 Date:03-25-02

Site SD 44

Tracer [B] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

N

0 6 12

feet

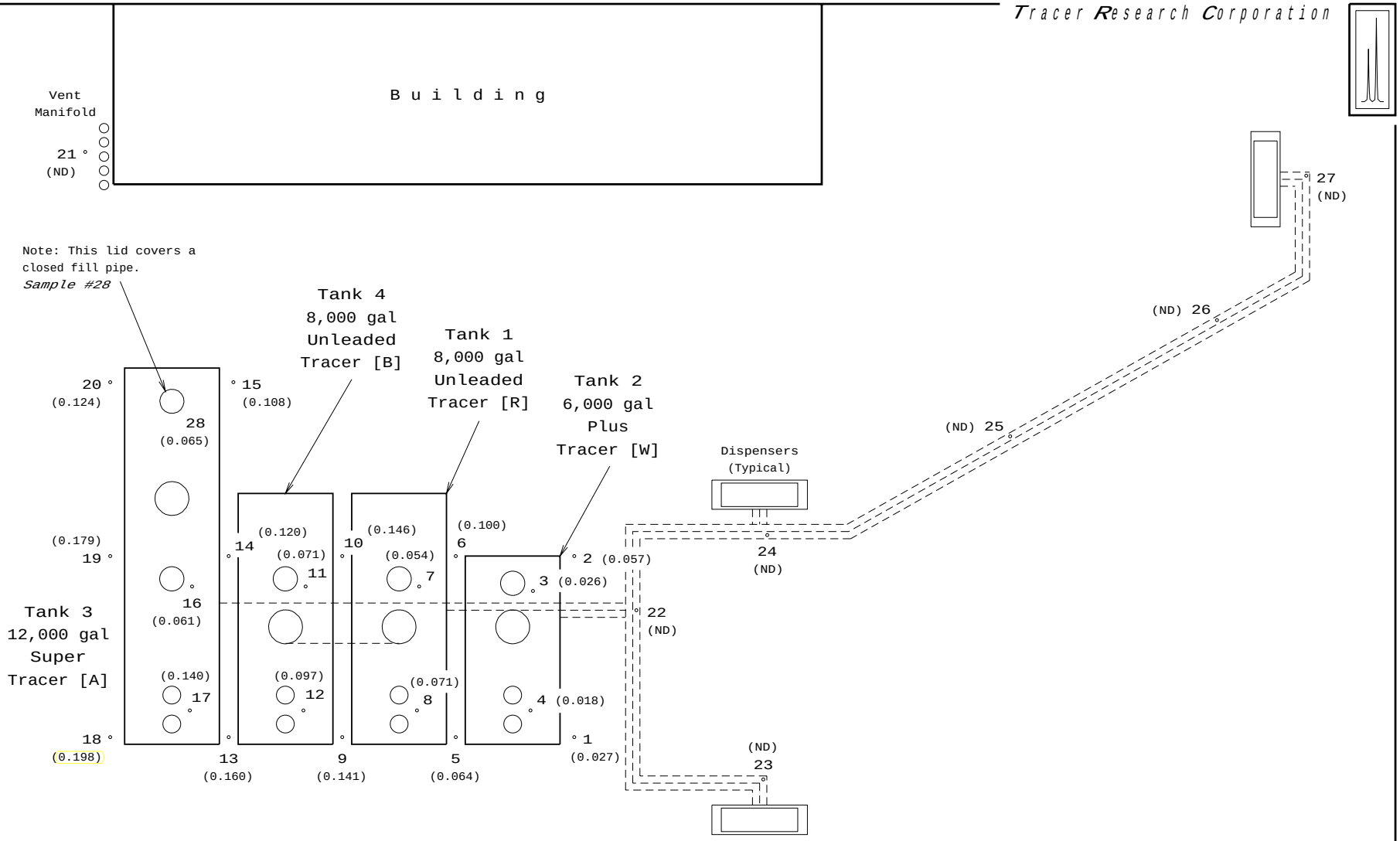
File:DA44-1C
Arc:3665DA44

Size:A
Date:03-25-02

Site SD 44

Tracer [R] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

N

0 6 12

feet

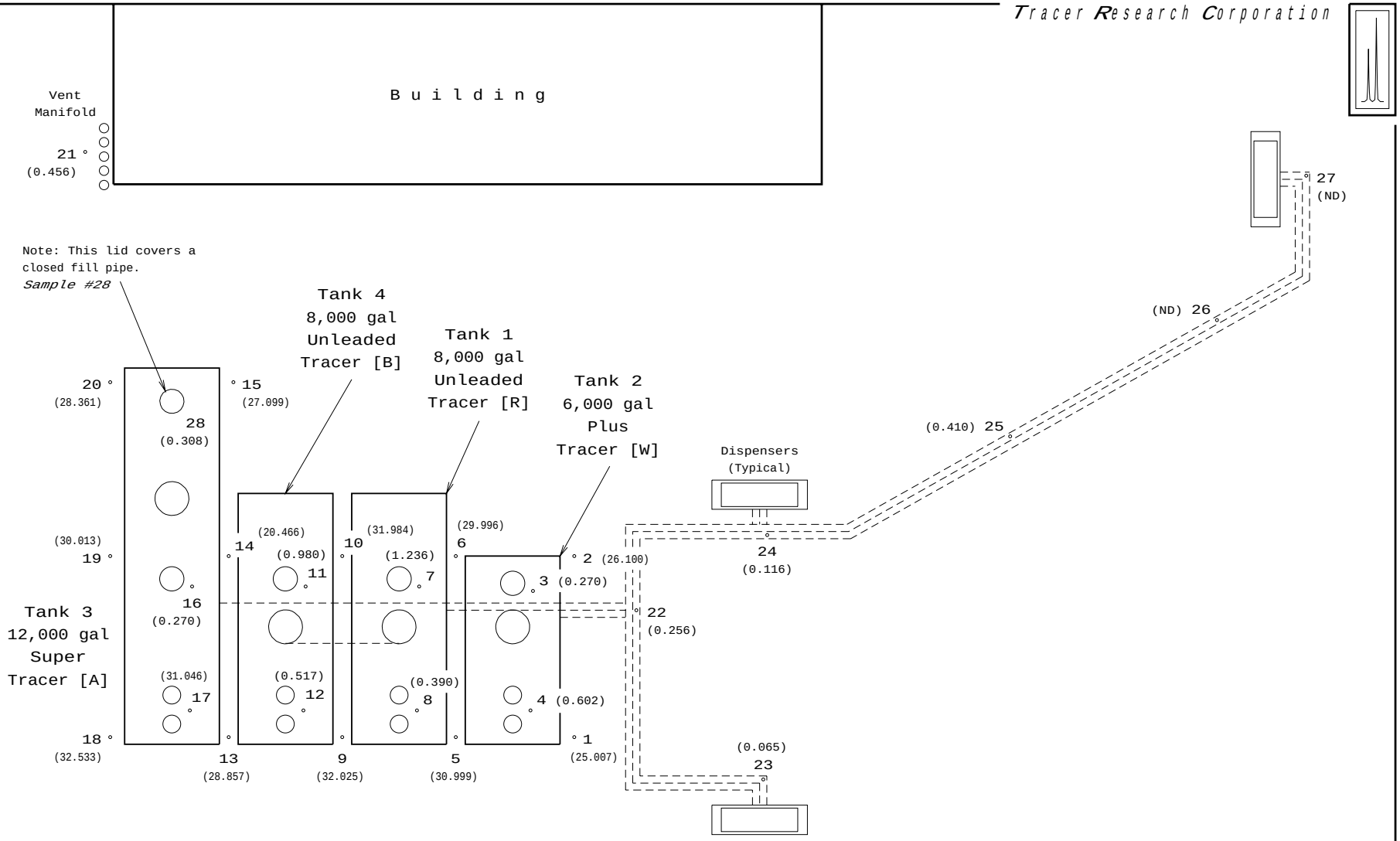
File:DA44-1D
Arc:3665DA44

Size:A
Date:03-25-02

Site SD 44

Tracer [W] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 6 12

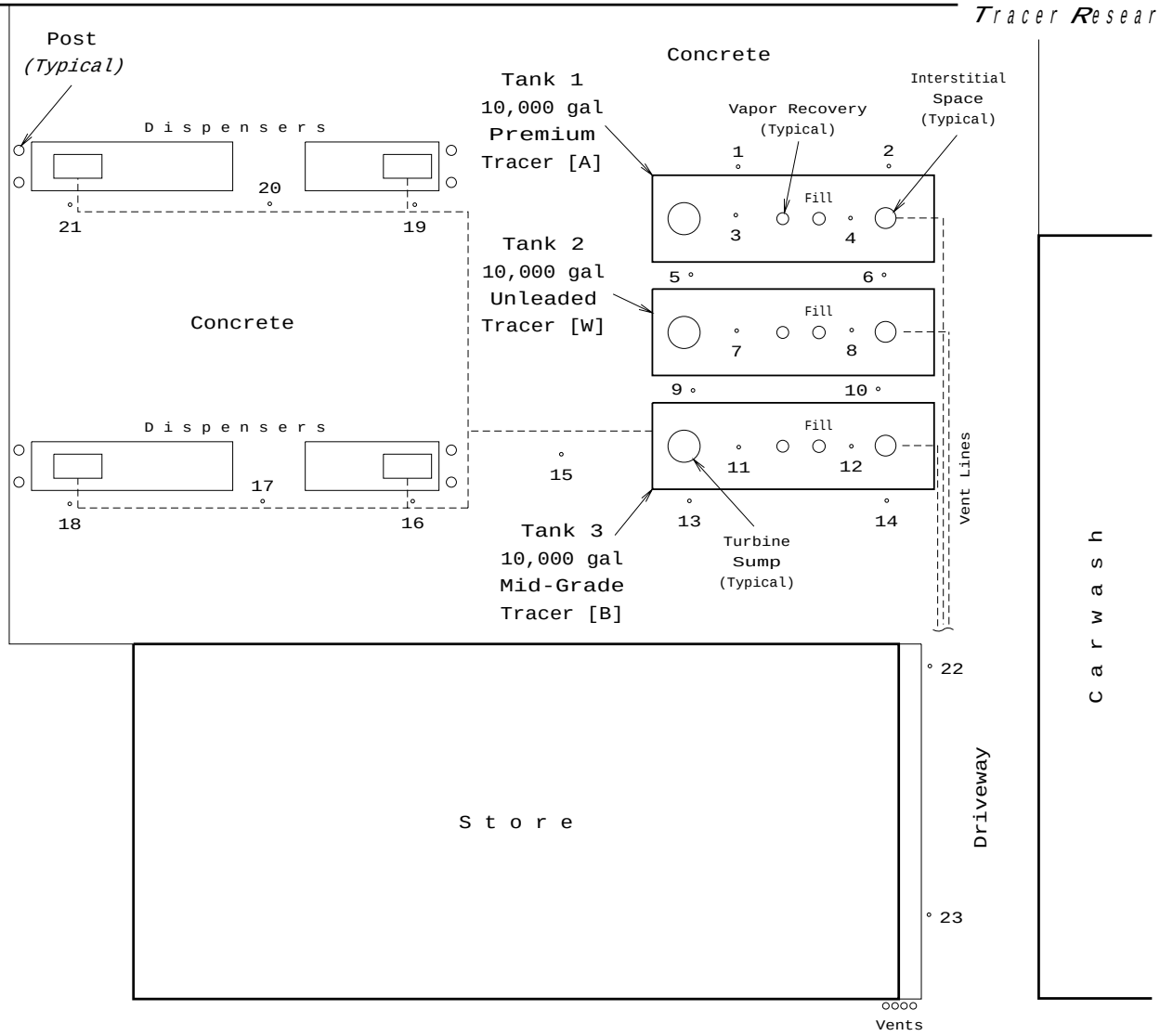
feet

File:DA44-1E Size:A
Arc:3665DA44 Date:03-25-02

Site SD 44

TVHC Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1 Sampling Probe Location

-------- Approximate Pipeline Location

N

0 15

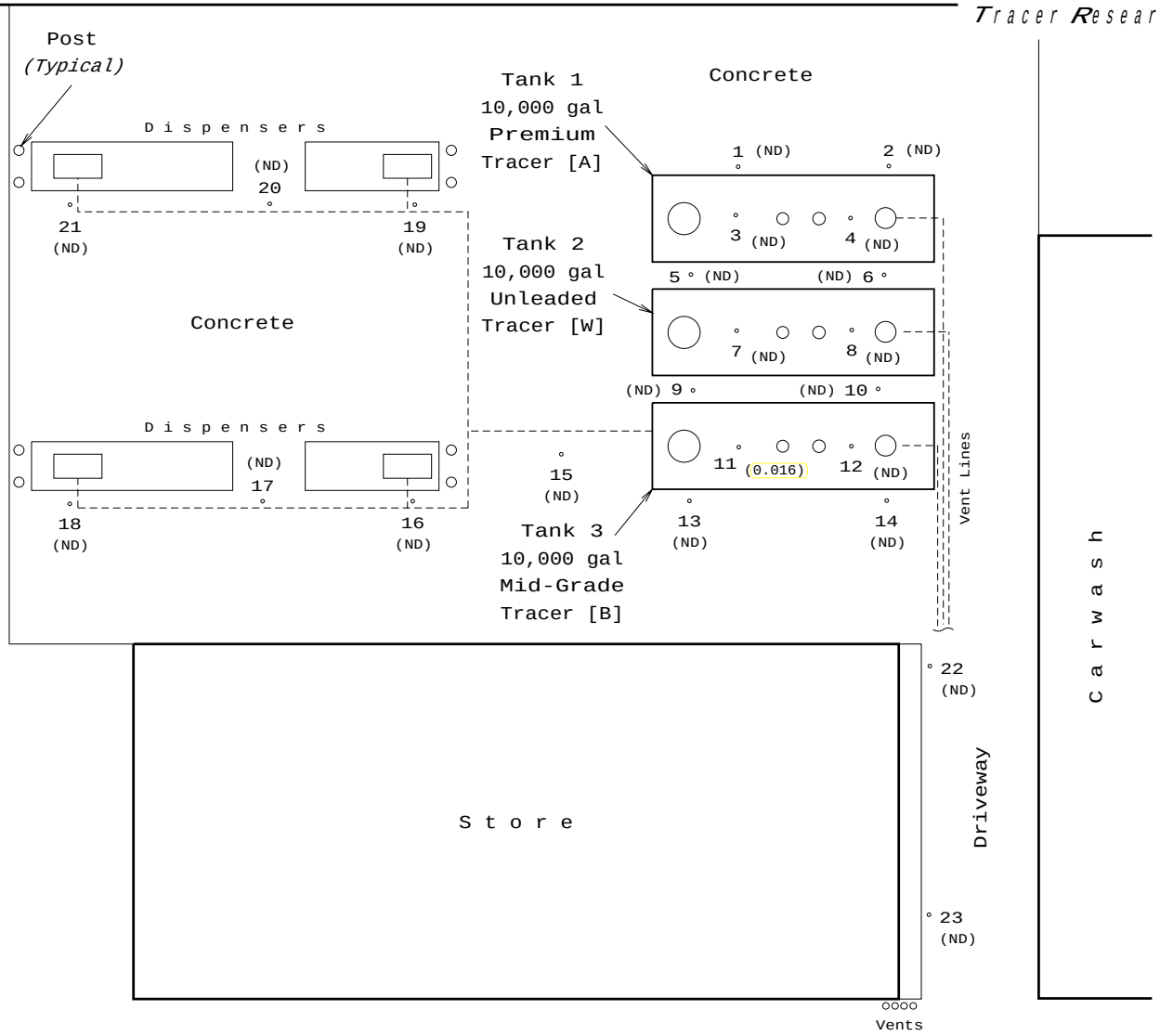
f e e t

File:SD48-01 Size:A
Arc:3665SD48 Date:02-12-02

Site SD 48

SAMPLING LOCATIONS

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 15

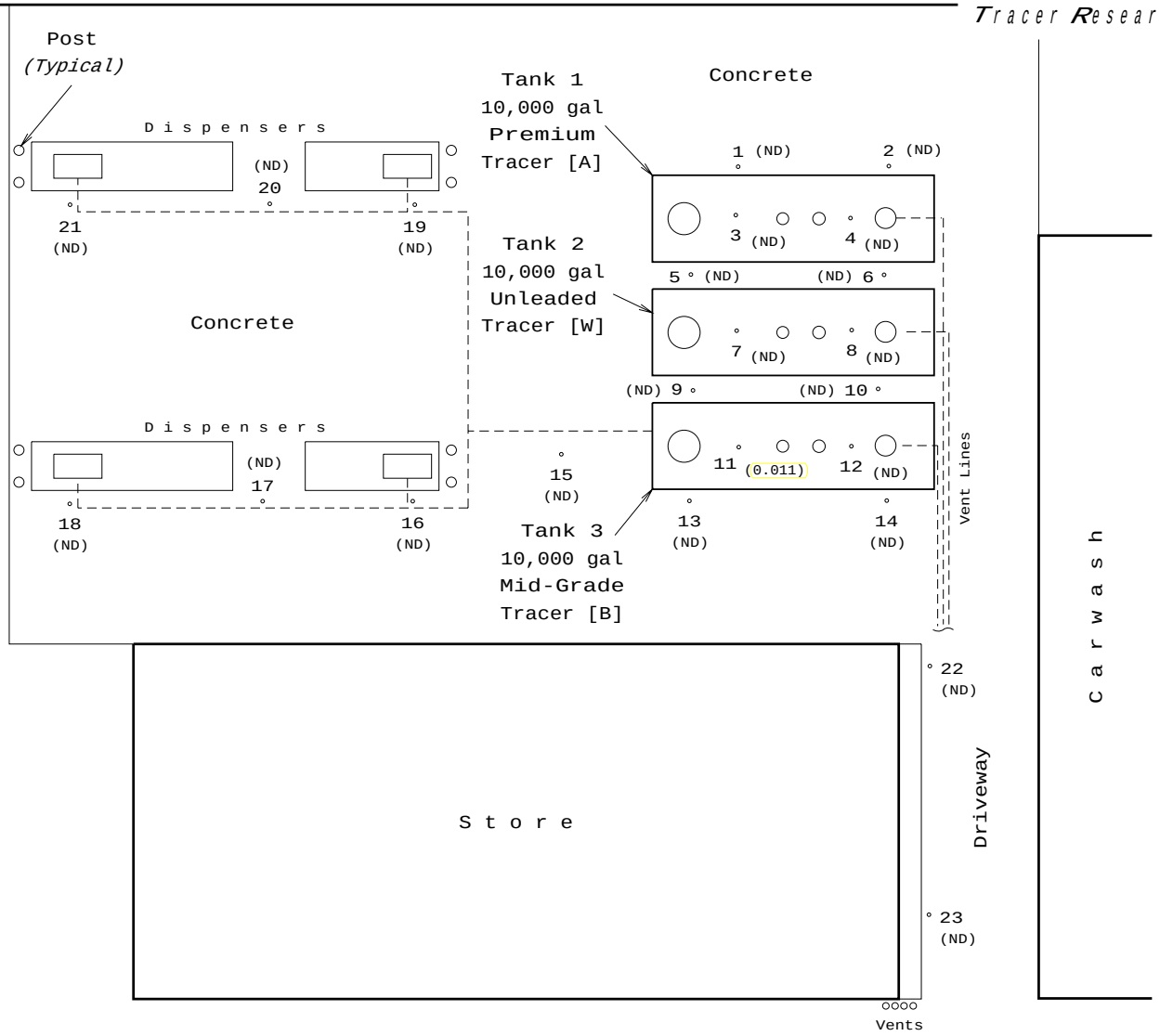
feet

File:SD48-1A Size:A
Arc:3665SD48 Date:02-12-02

Site SD 48

Tracer [A] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

N

0 15

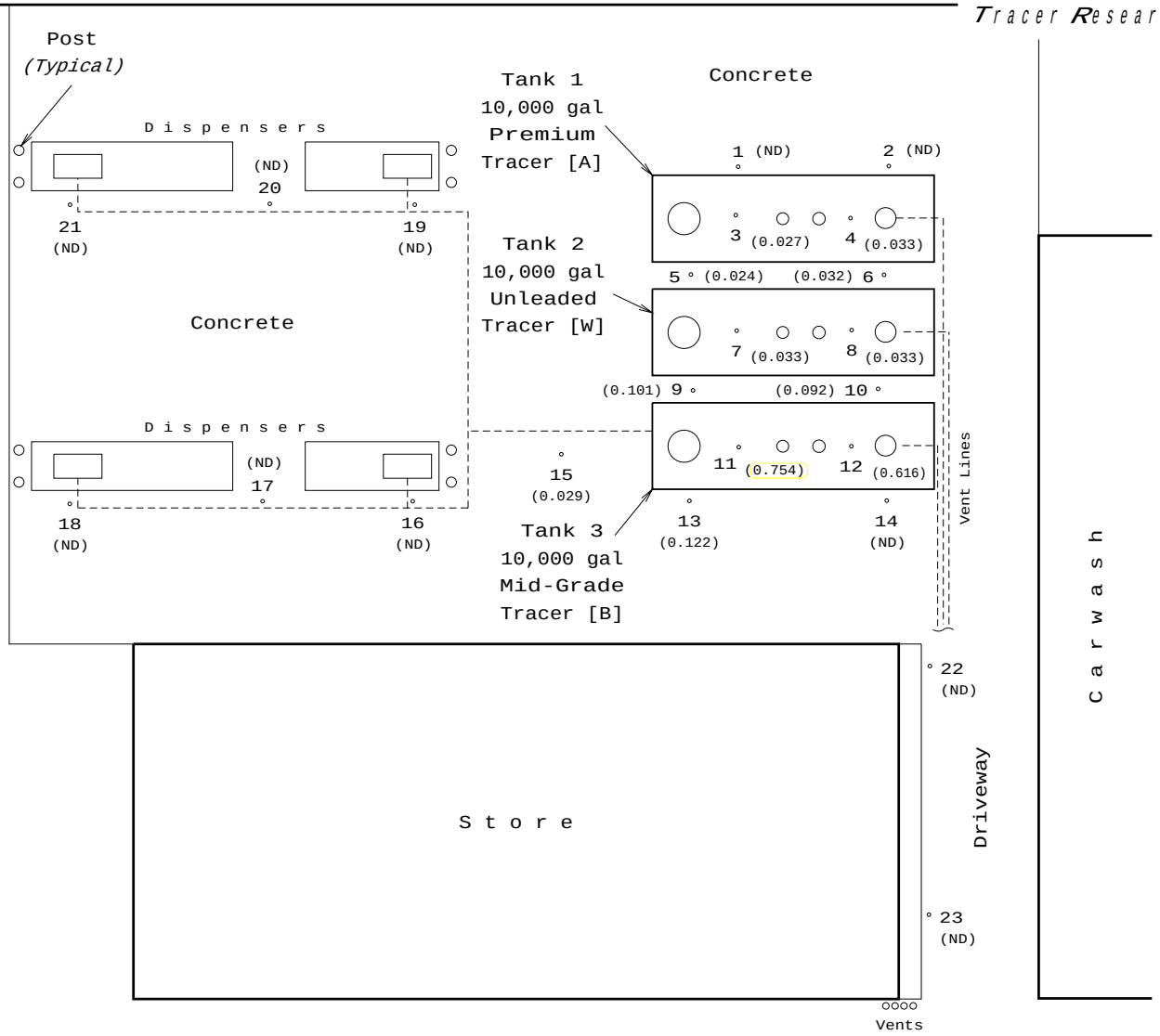
feet

File:SD48-1B Size:A
Arc:3665SD48 Date:02-12-02

Site SD 48

Tracer [W] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

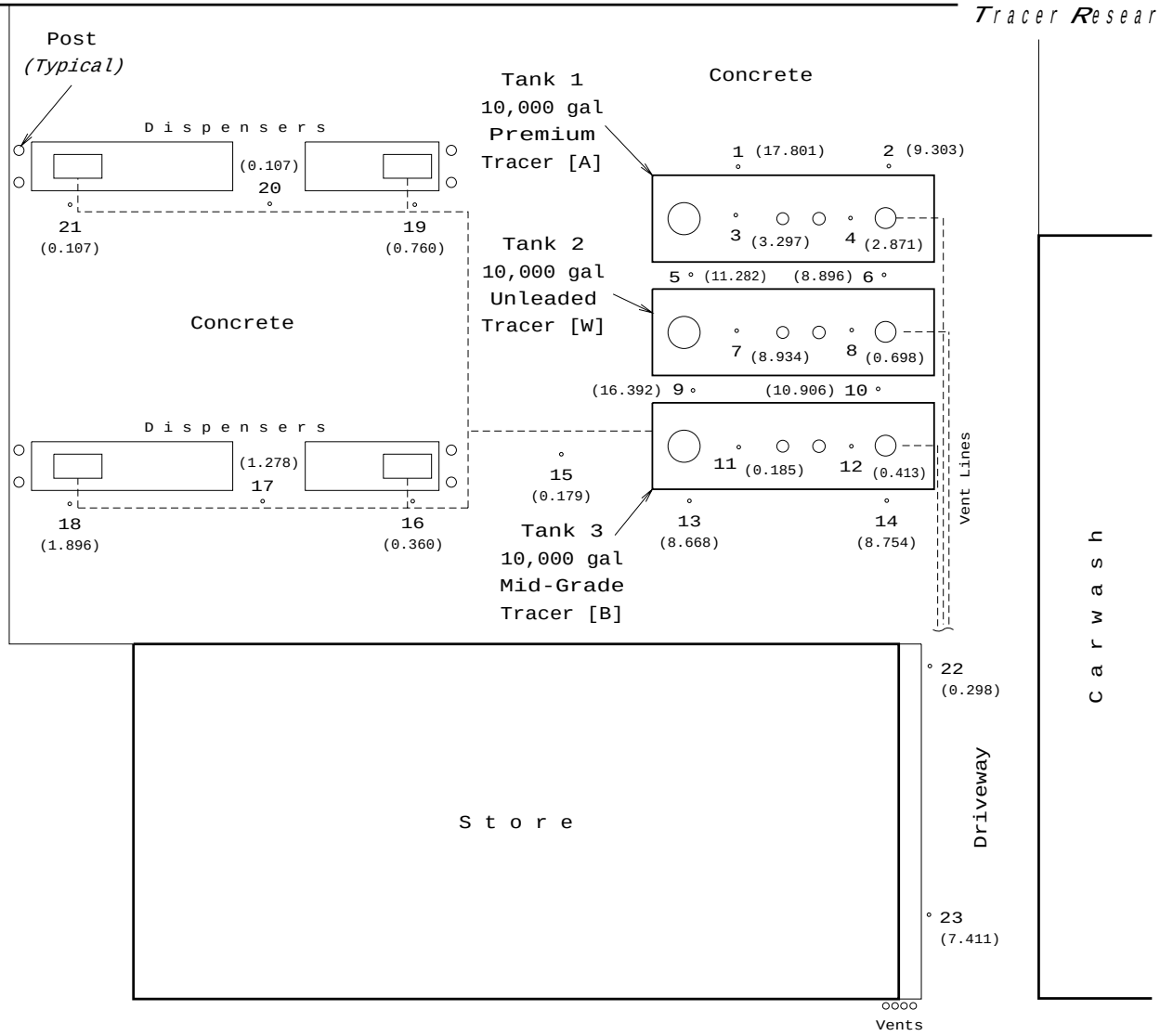
0 15
feet

File:SD48-1C
Arc:3665SD48
Size:A
Date:02-12-02

Site SD 48

Tracer [B] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

File:SD48-1D Size:A
Arc:3665SD48 Date:02-12-02

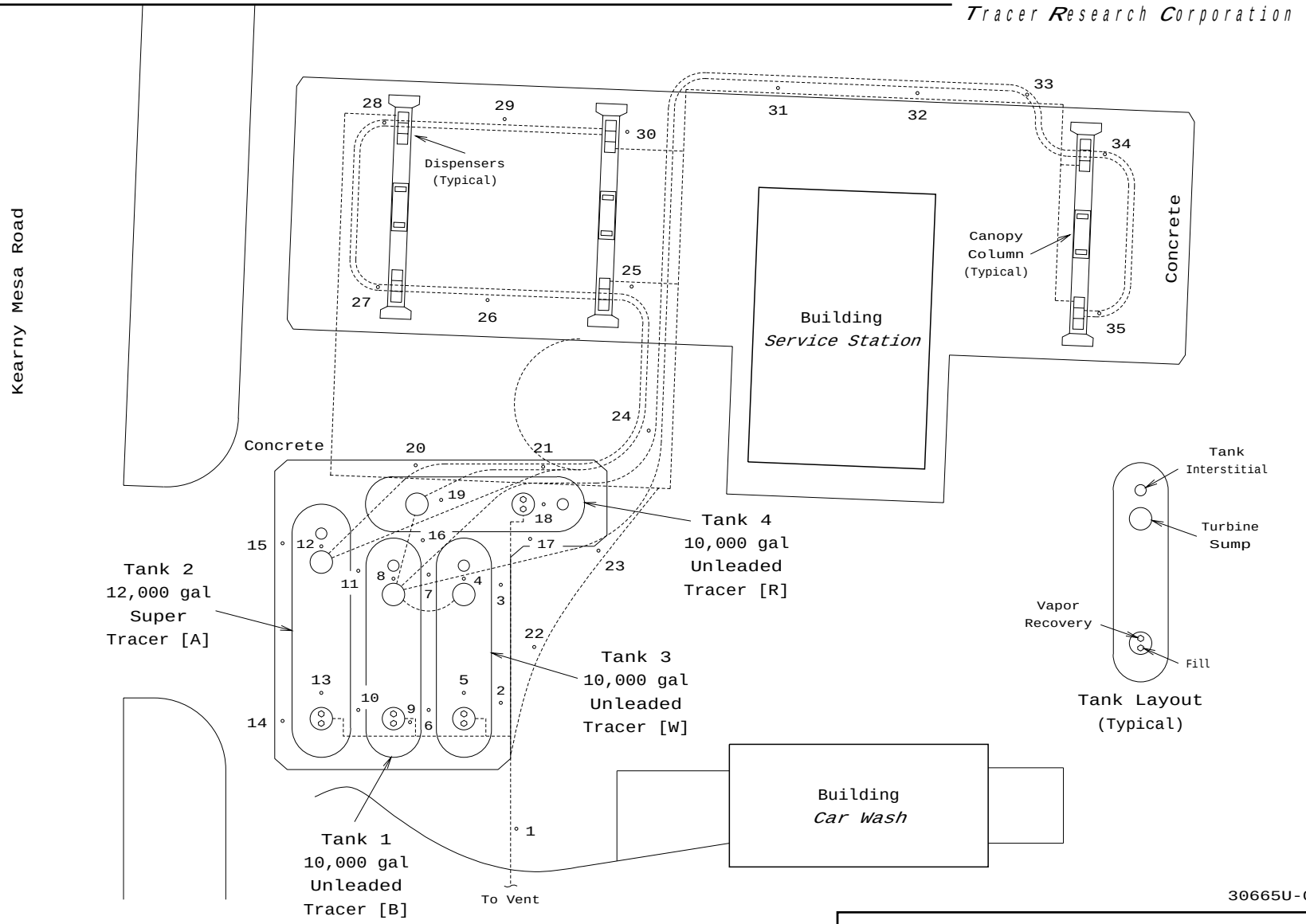
N

0 15
feet

Site SD 48

TVHC Distribution

Tracer Research Corporation



N

0 10 20
f e e t

EXPLANATION

•1 Sampling Probe Location

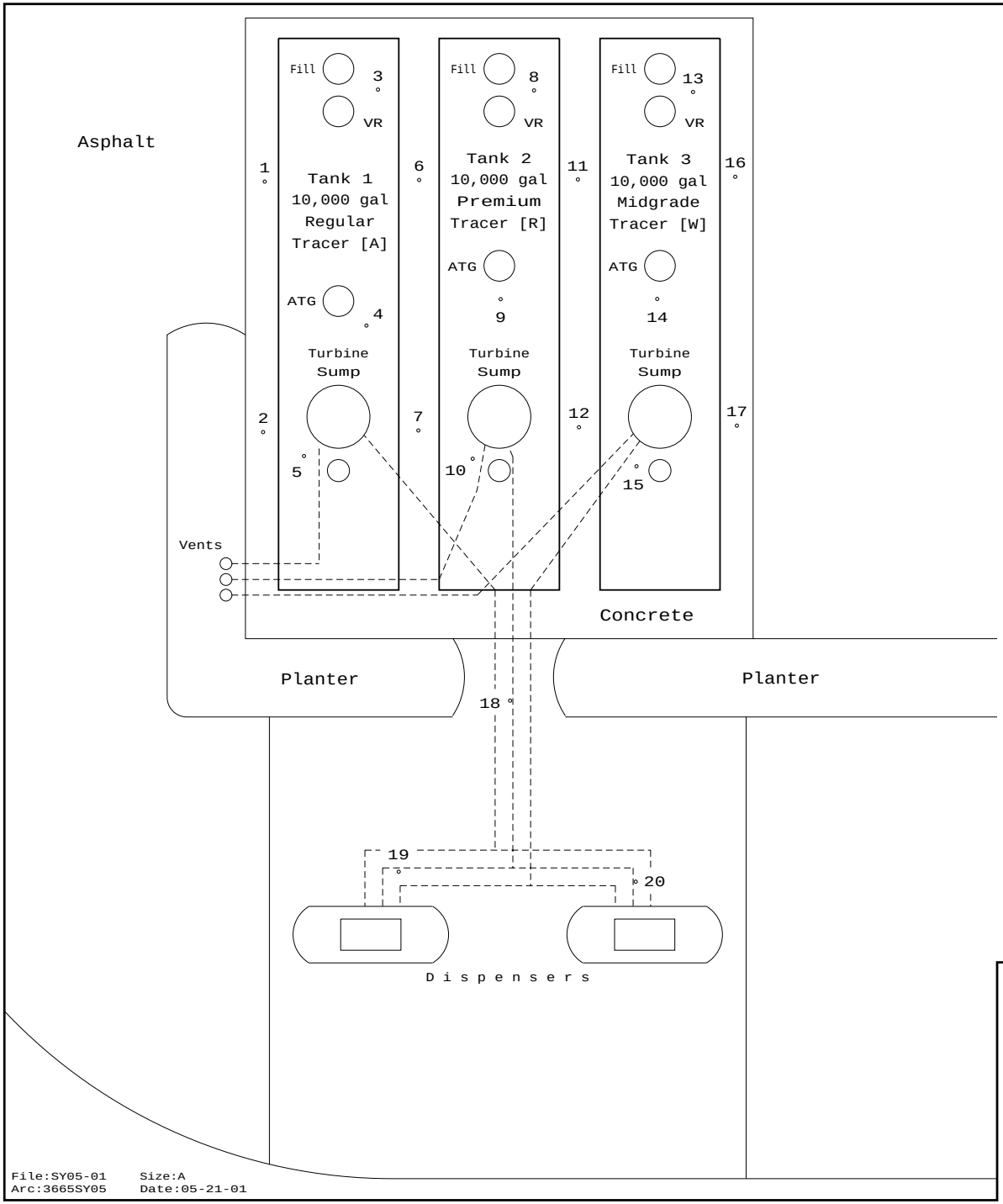
-------- Approximate Pipeline Location

File:DA52-01 Size:A
Arc:3665DA52 Date:03-25-02

Site SD 52

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

-------- Approximate Pipeline Location

N

0 5 10

feet

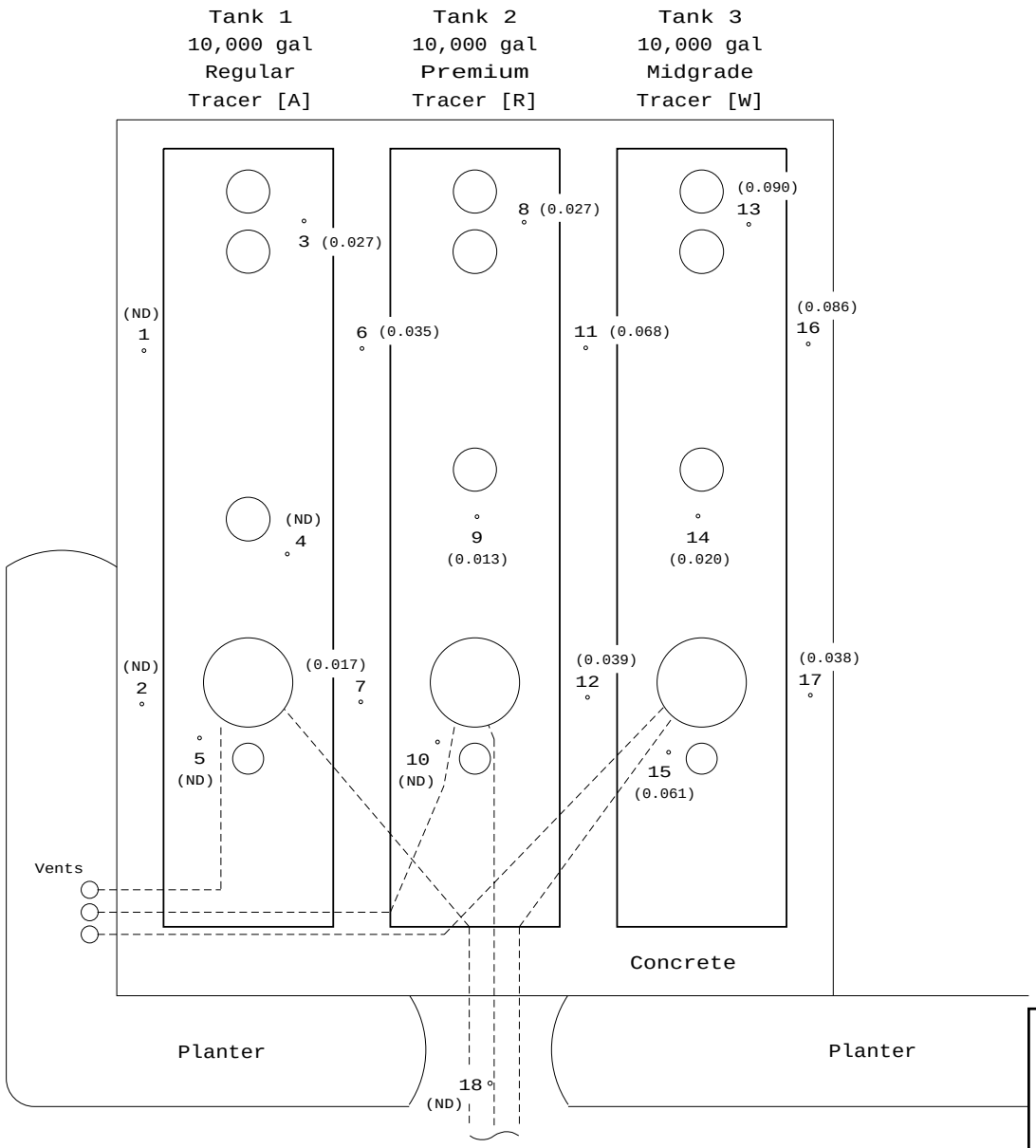
30665-000.U

File:SY05-01 Size:A
Arc:3665SY05 Date:05-21-01

Site SY 05

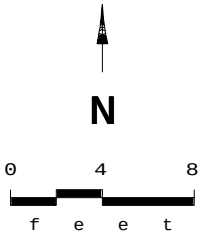
SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.027)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect



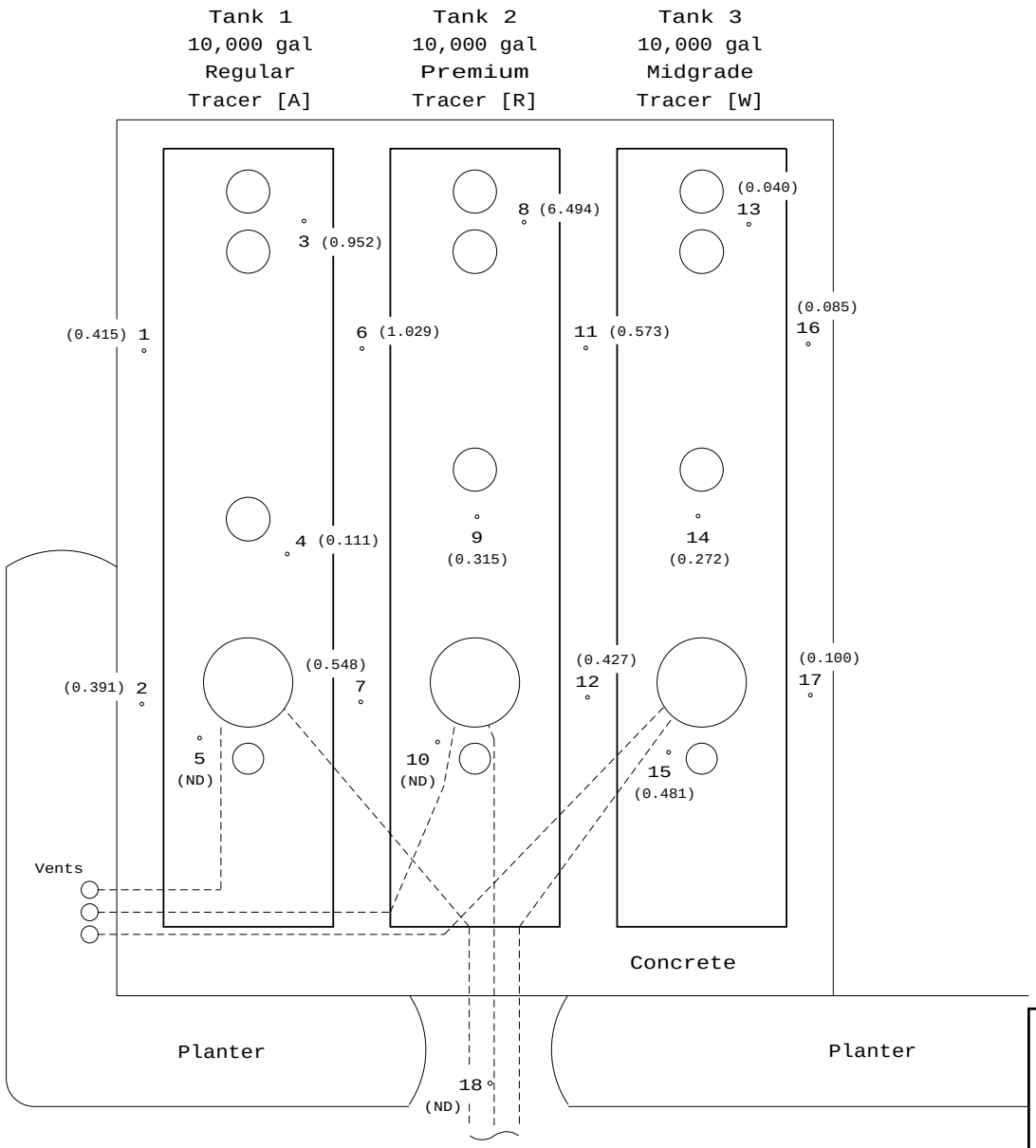
30665-000.U

Site SY 05

Tracer [A] Distribution

File:SY05-1A Size:A
Arc:3665SY05 Date:05-21-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.027)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

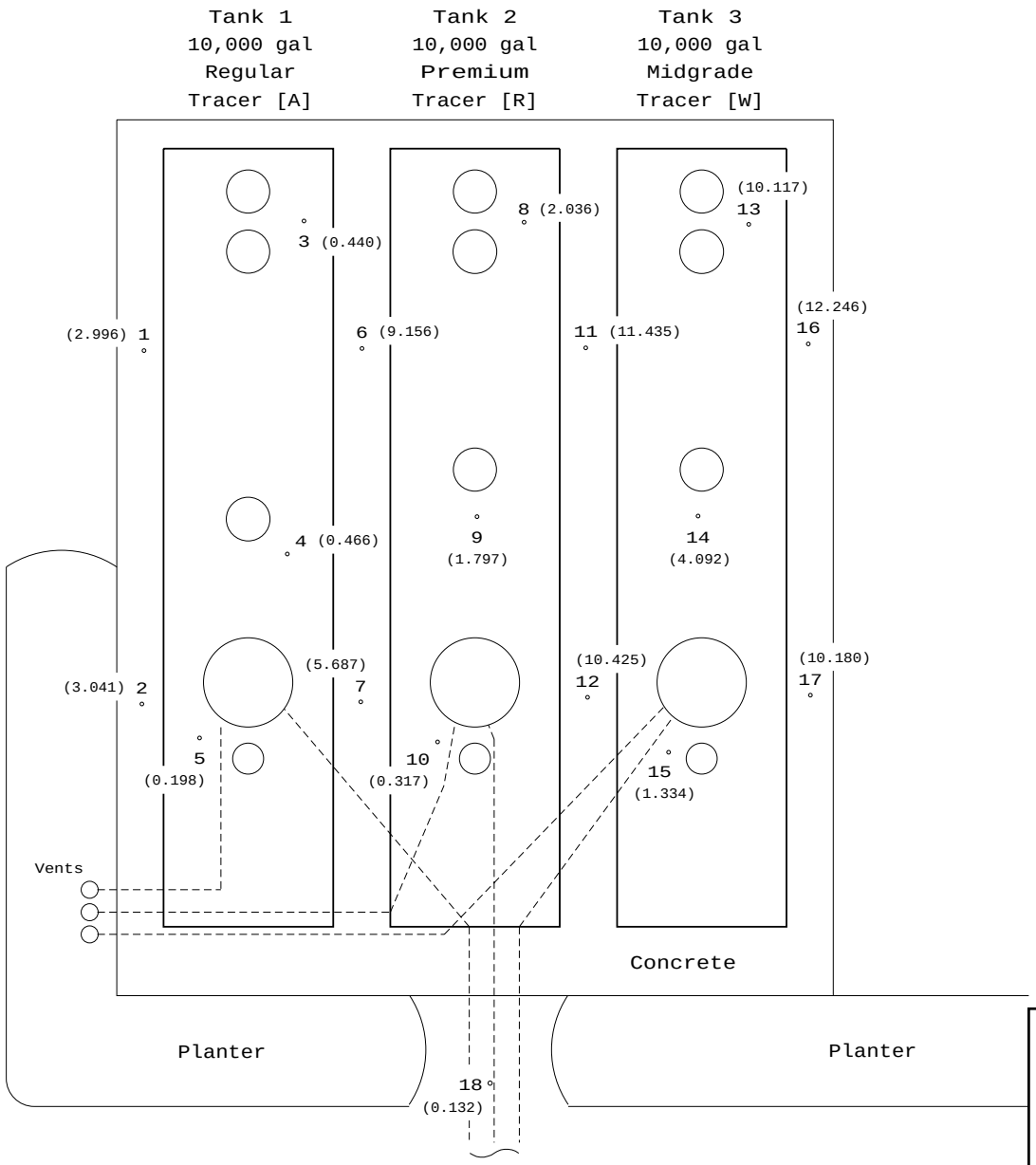
30665-000.U

Site SY 05

Tracer [R] Distribution

File:SY05-1B Size:A
Arc:3665SY05 Date:05-21-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.027)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

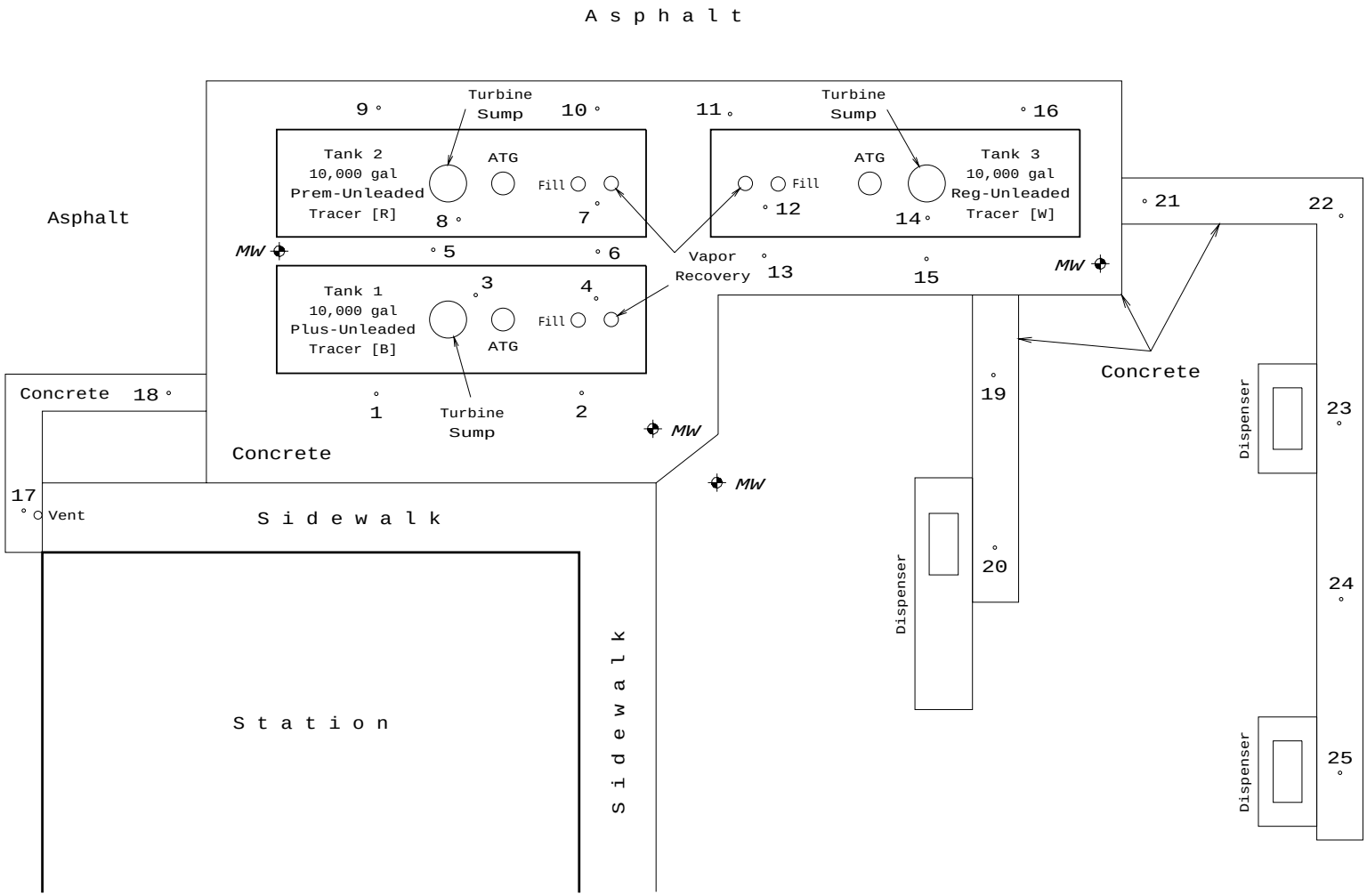
30665-000.U

Site SY 05

Tracer [W] Distribution

File:SY05-1C Size:A
Arc:3665SY05 Date:05-21-01

Tracer Research Corporation



30665-000.U

EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

MW Monitoring Well Location

North

0 6 12

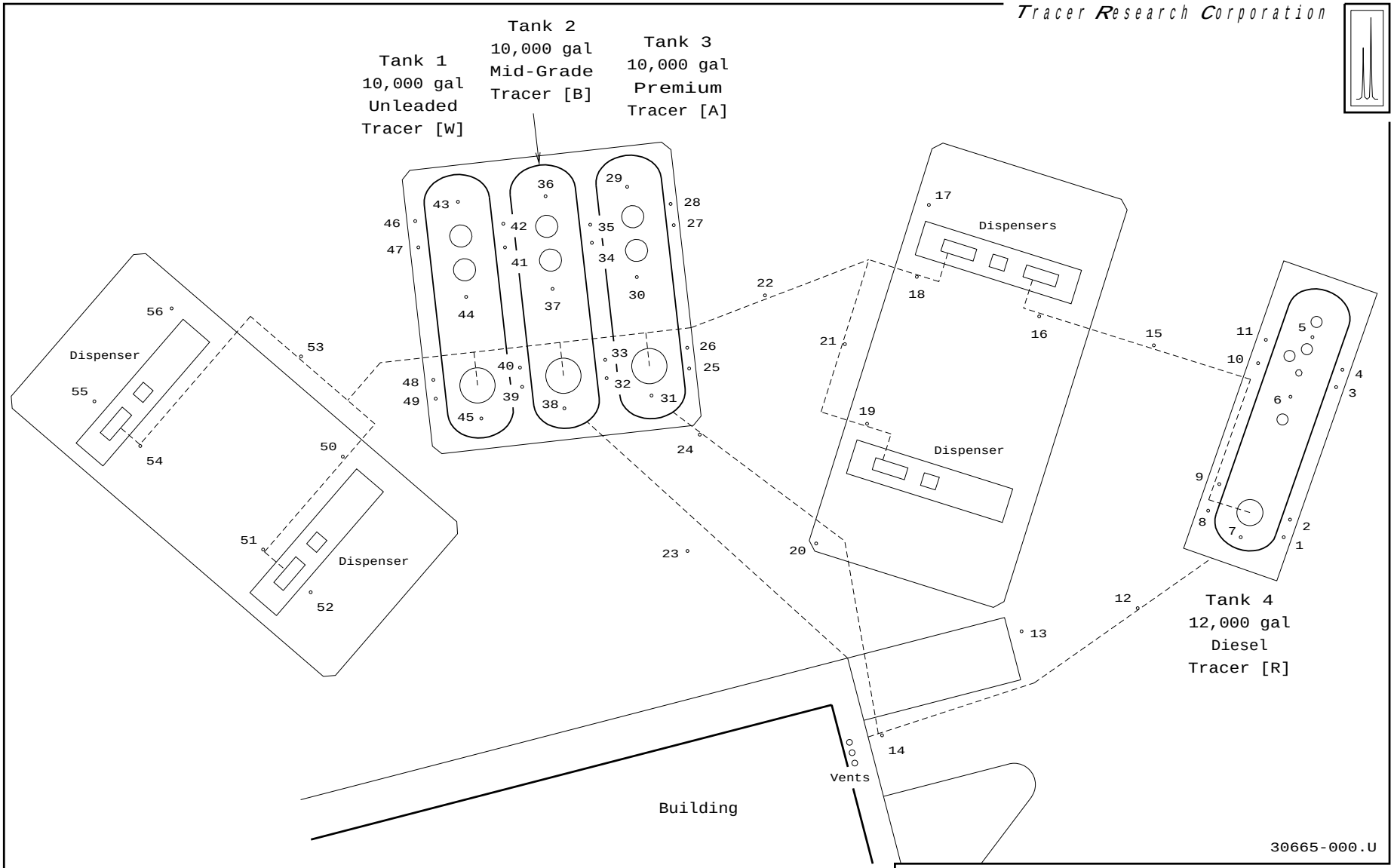
feet

File:SY07-01 Size:A
Arc:3665SY07 Date:01-23-01

Site SY 07

SAMPLING LOCATIONS

Tracer Research Corporation



E X P L A N A T I O N

•1 Sampling Probe Location

-------- Approximate Pipeline Location

File:SY08-01 Size:A
Arc:3665SY08 Date:03-26-01

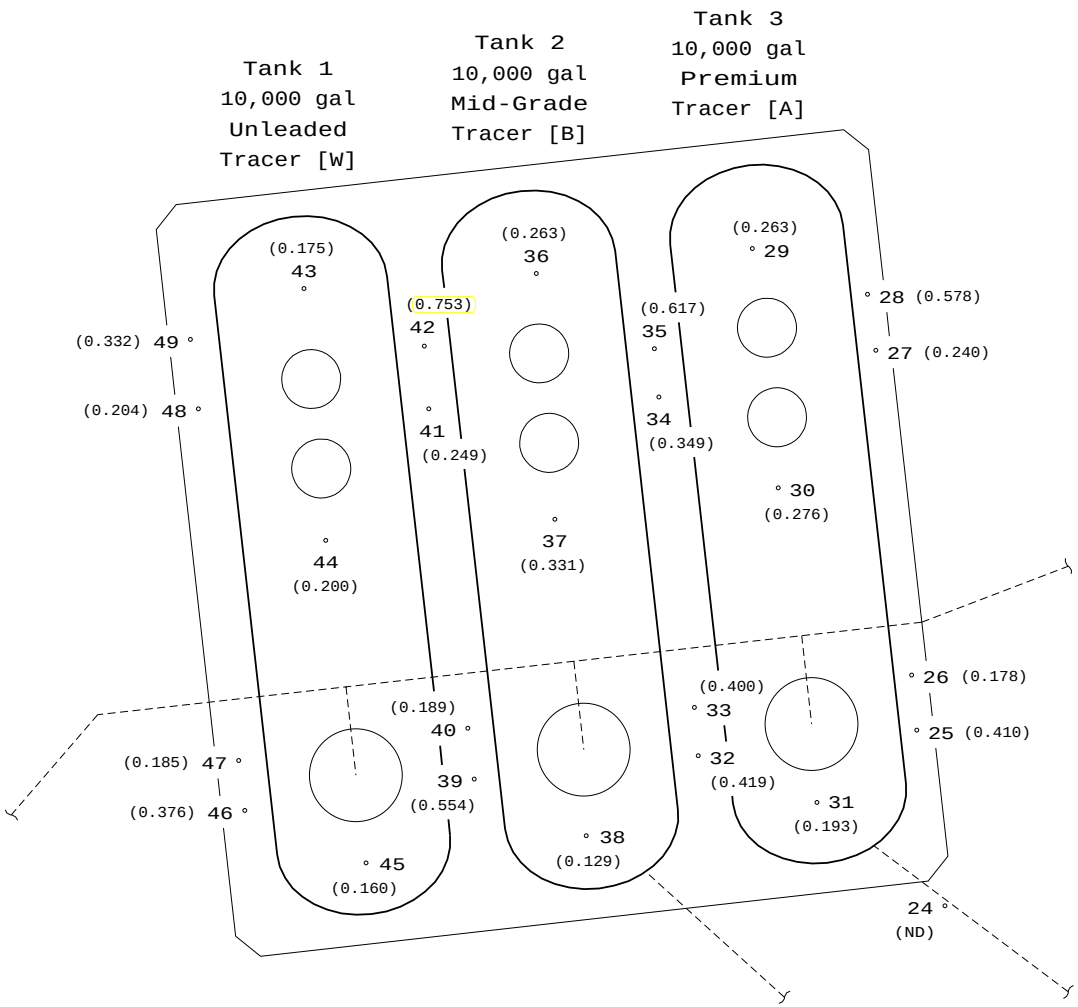
N

0 8 16
f e e t

Site SY 08

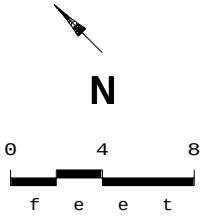
S A M P L I N G L O C A T I O N S

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.410)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect



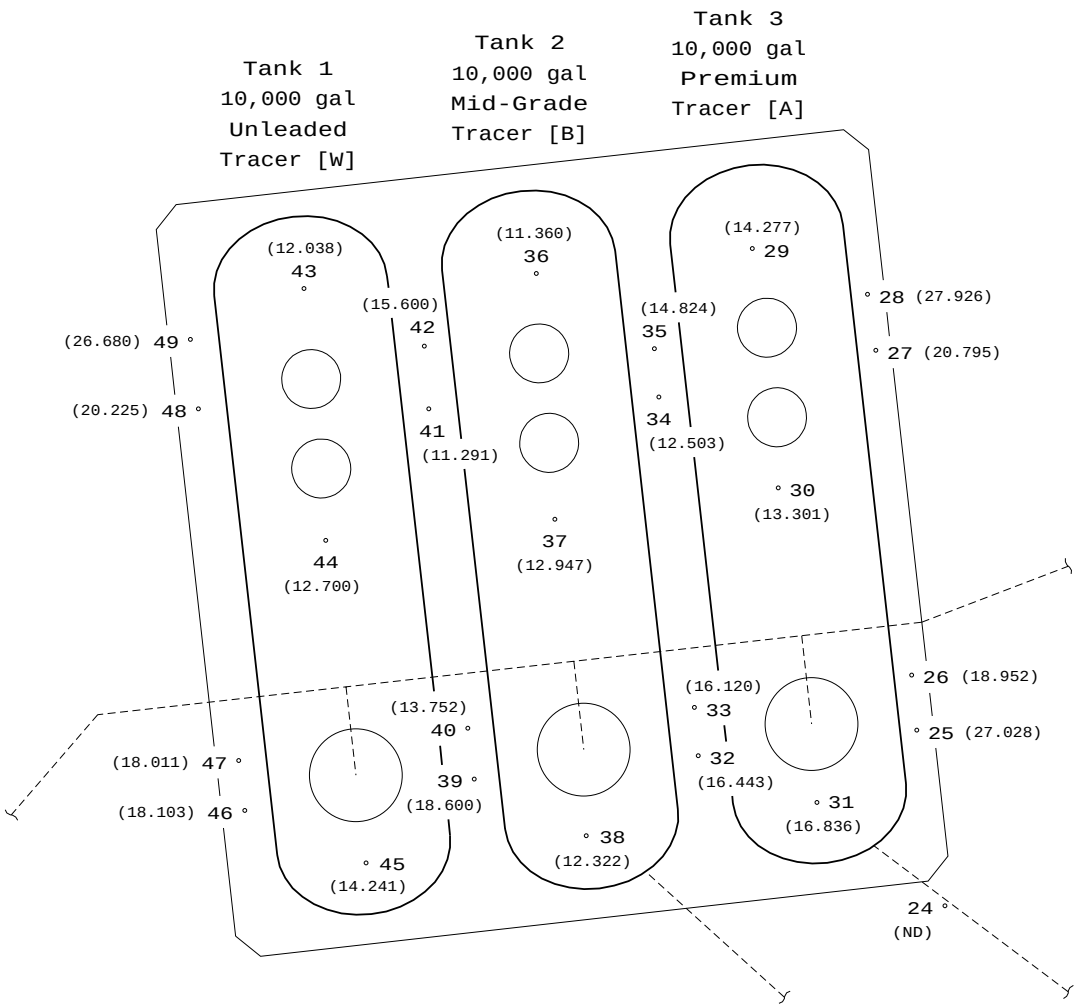
30665-000.U

Site SY 08

Tracer [A] Distribution

File:SY08-1A Size:A
Arc:3665SY08 Date:03-26-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(27.028)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

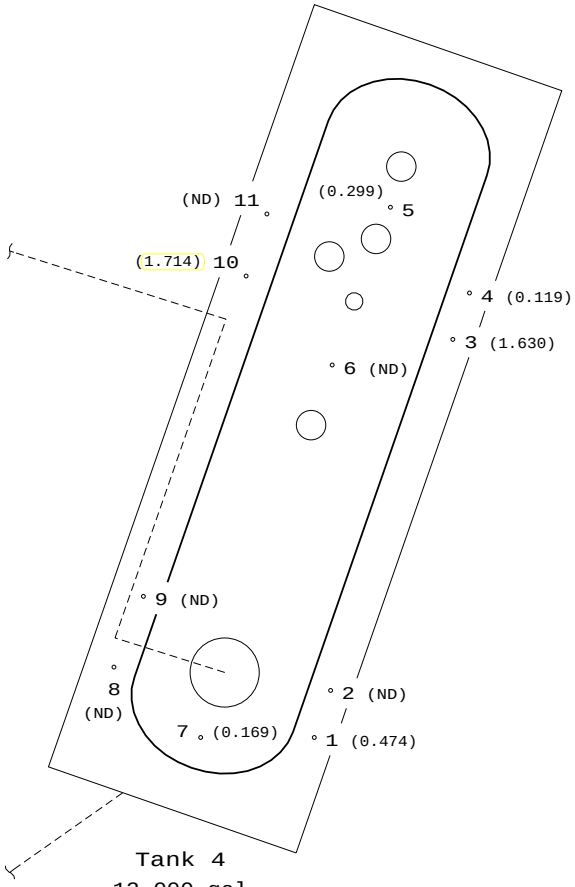
30665-000.U

Site SY 08

Tracer [B] Distribution

File:SY08-1B Size:A
Arc:3665SY08 Date:03-26-01

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.474)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

Not To Scale

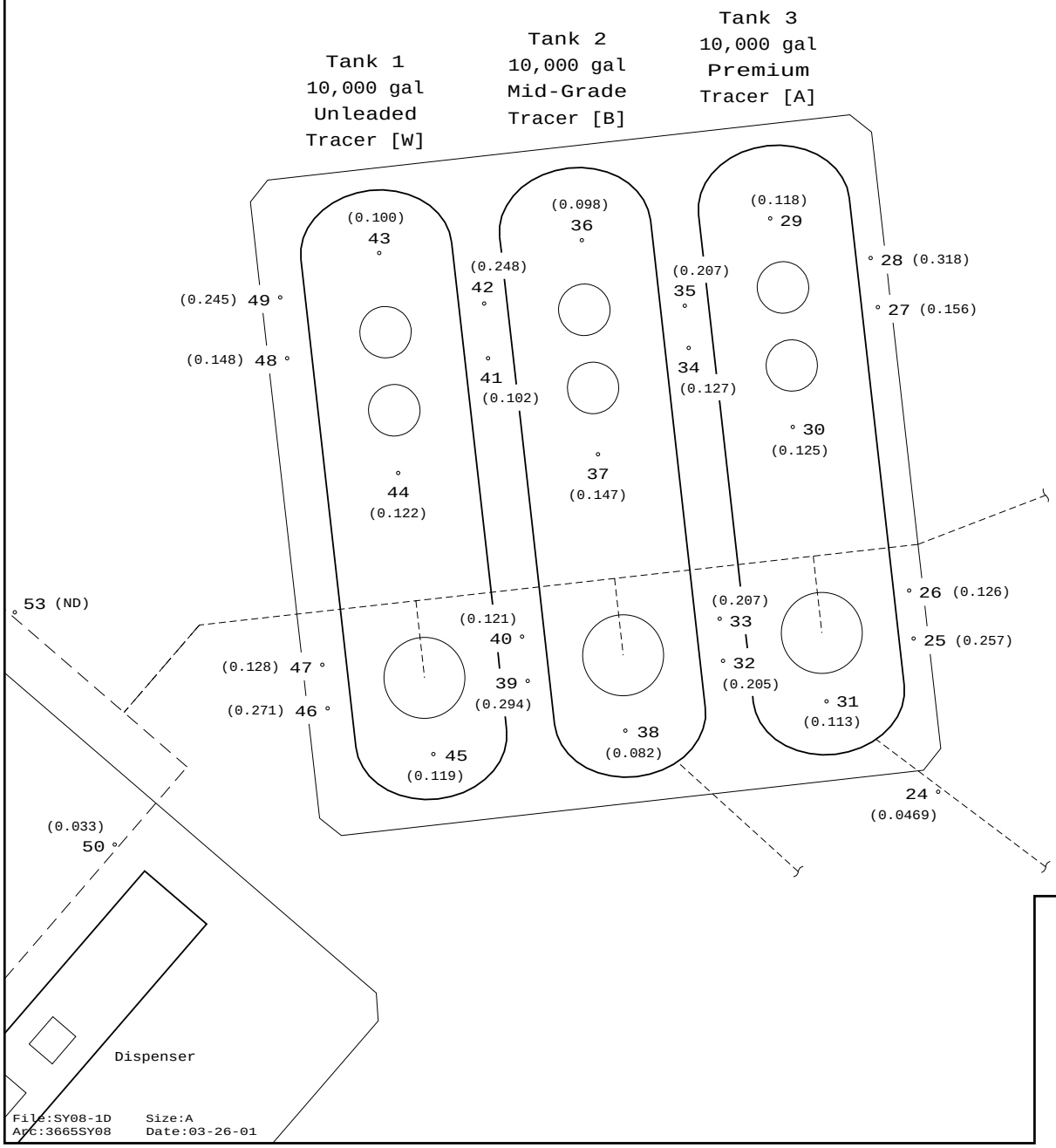
30665-000.U

Site SY 08

T r a c e r [R] D i s t r i b u t i o n

File:SY08-1C Size:A
Arc:3665SY08 Date:03-26-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.257)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

feet

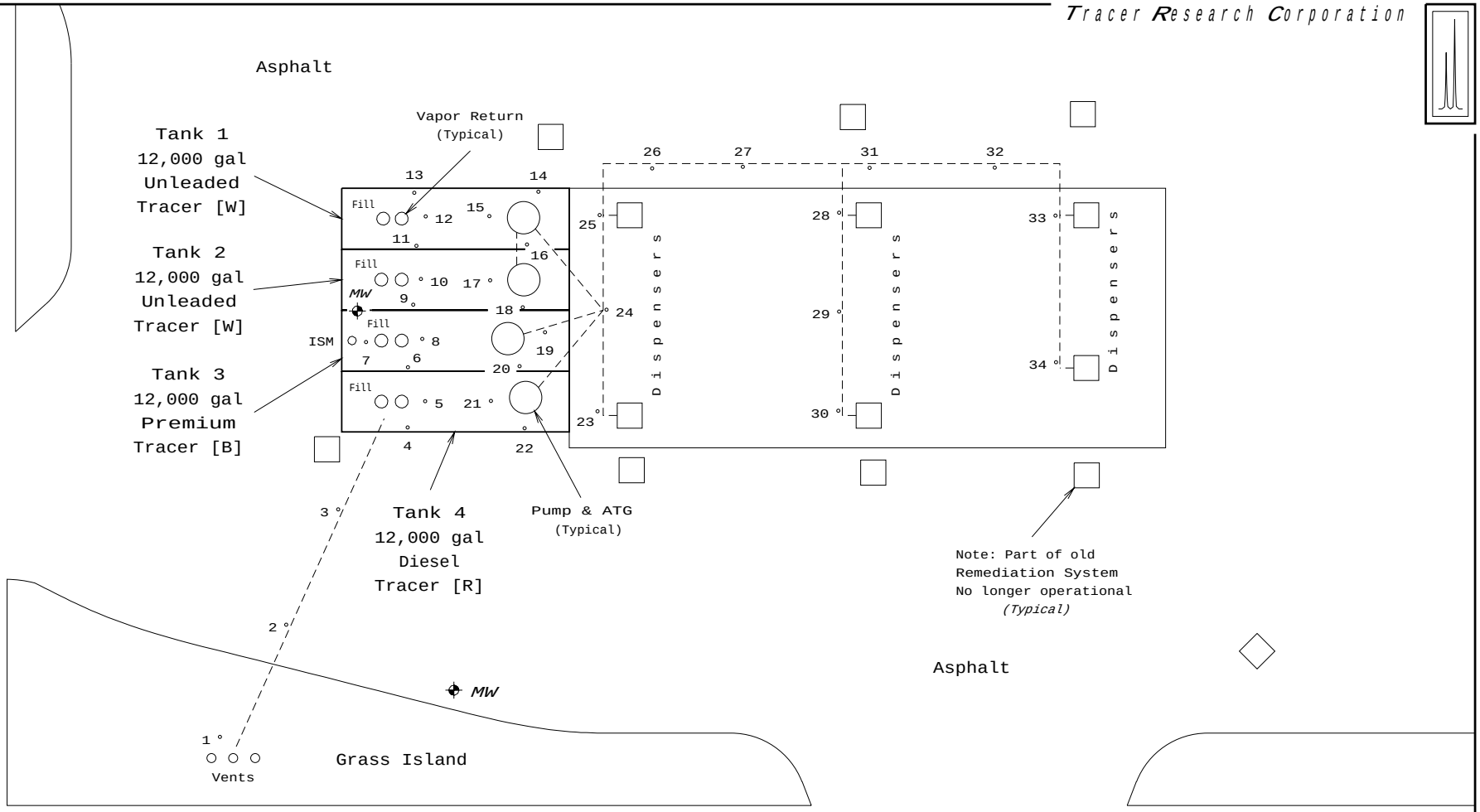
30665-000.U

File:SY08-1D Size:A
Arc:3665SY08 Date:03-26-01

Site SY 08

Tracer [W] Distribution

Tracer Research Corporation



30665-000.U

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location

N

0 10 20

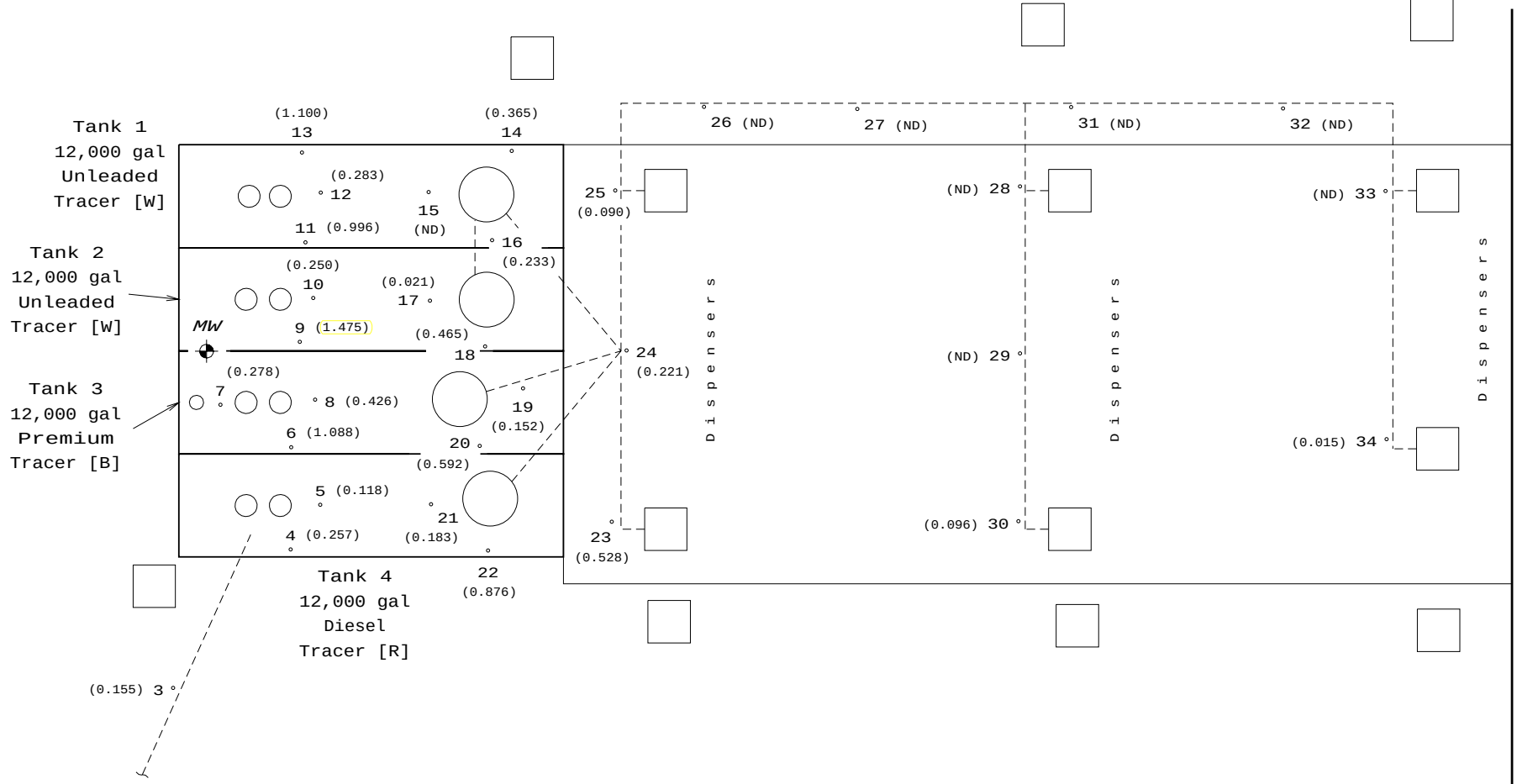
feet

File:SY14-01 Size:A
Arc:3665SY14 Date:03-29-01

Site SY 14

SAMPLING LOCATIONS

Tracer Research Corporation



30665-000.U

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.410)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

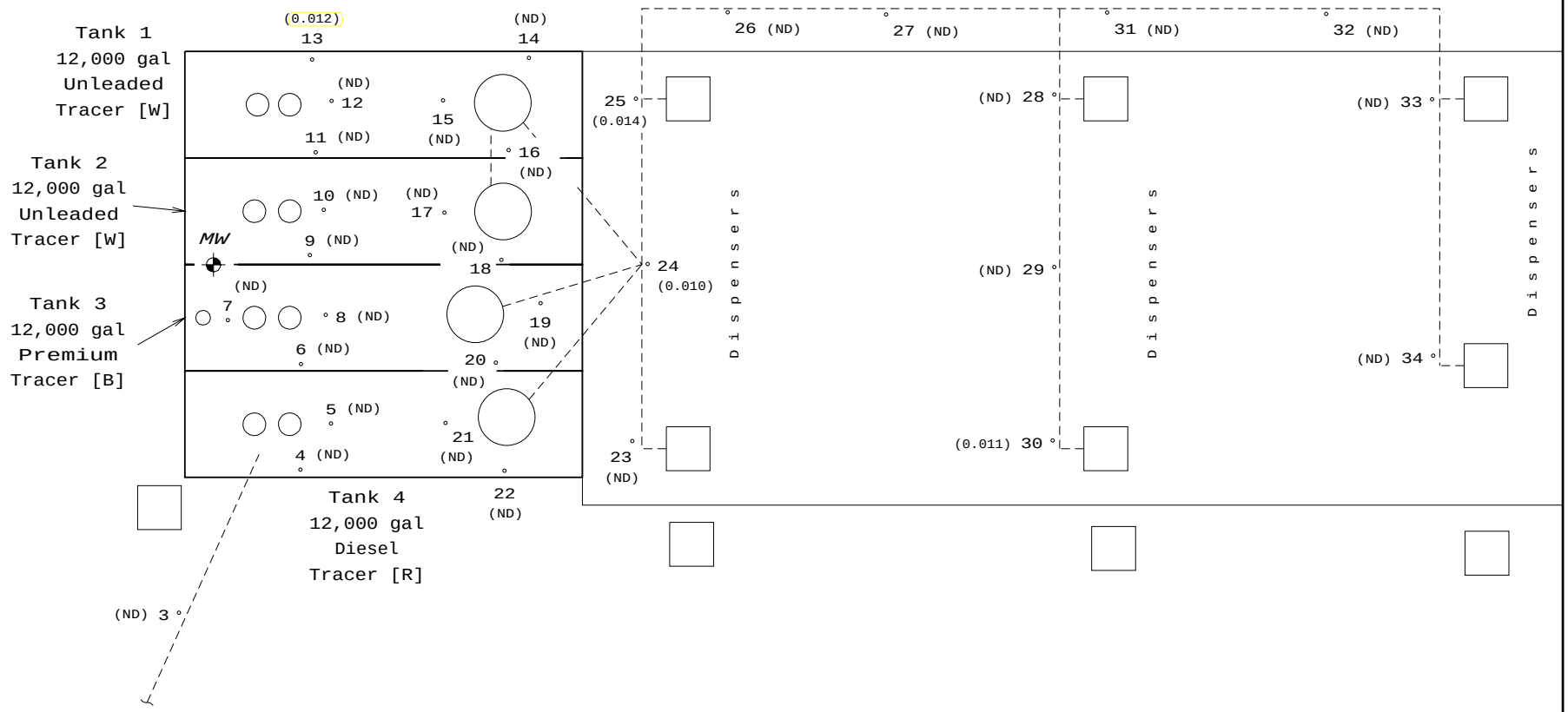
0 6 12
feet

File:SY14-1A Size:A
Arc:3665SY14 Date:03-29-01

Site SY 14

Tracer [B] Distribution

Tracer Research Corporation



30665-000.U

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.012)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 6 12

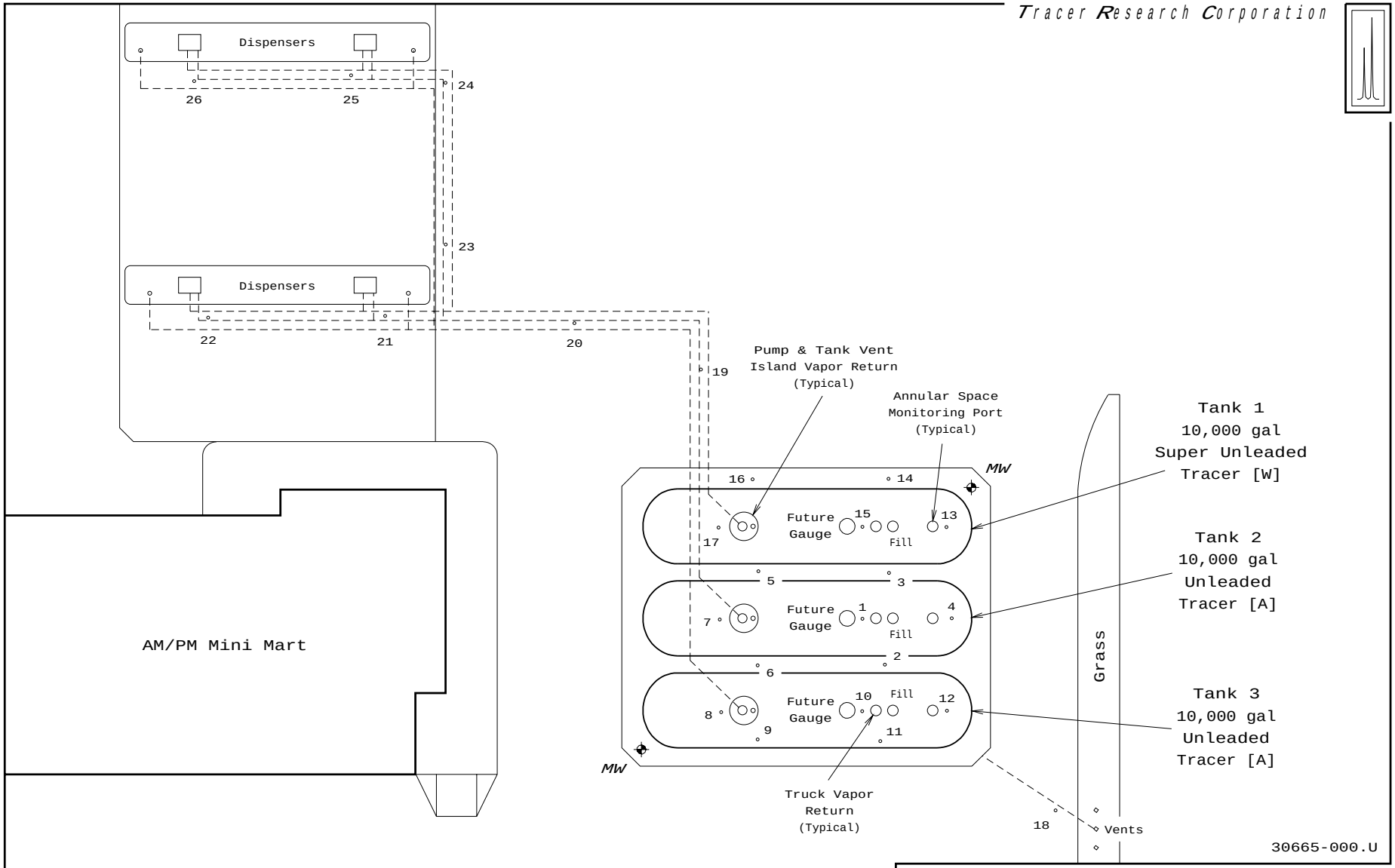
feet

File:SY14-1B Size:A
Arc:3665SY14 Date:03-29-01

Site SY 14

Tracer [W] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
⌖ MW	Monitoring Well Location

N

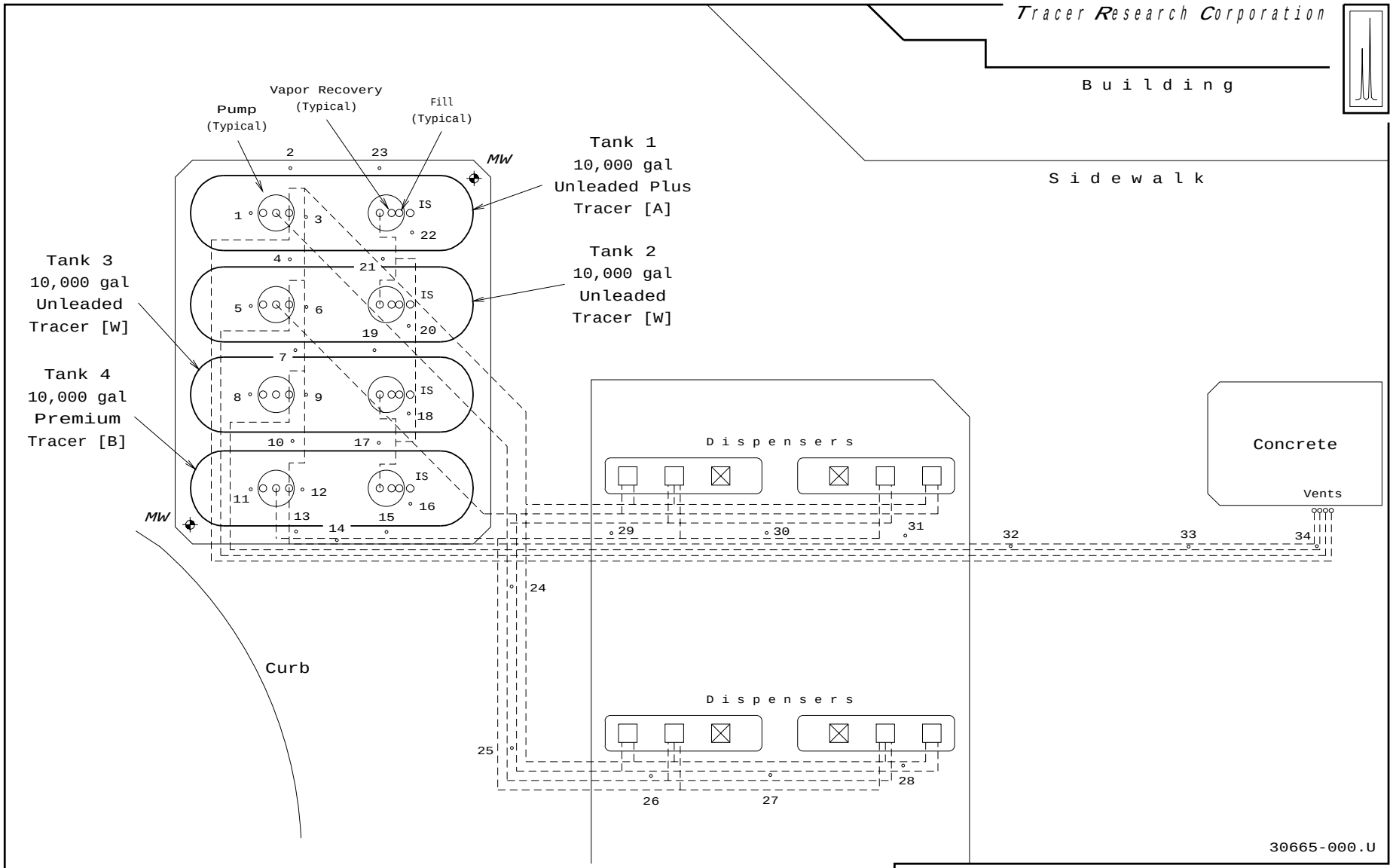
0 15

f e e t

File:SY15-01 Size:A
Arc:3665SY15 Date:02-15-01

Site SY 15

SAMPLING LOCATIONS



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location

N

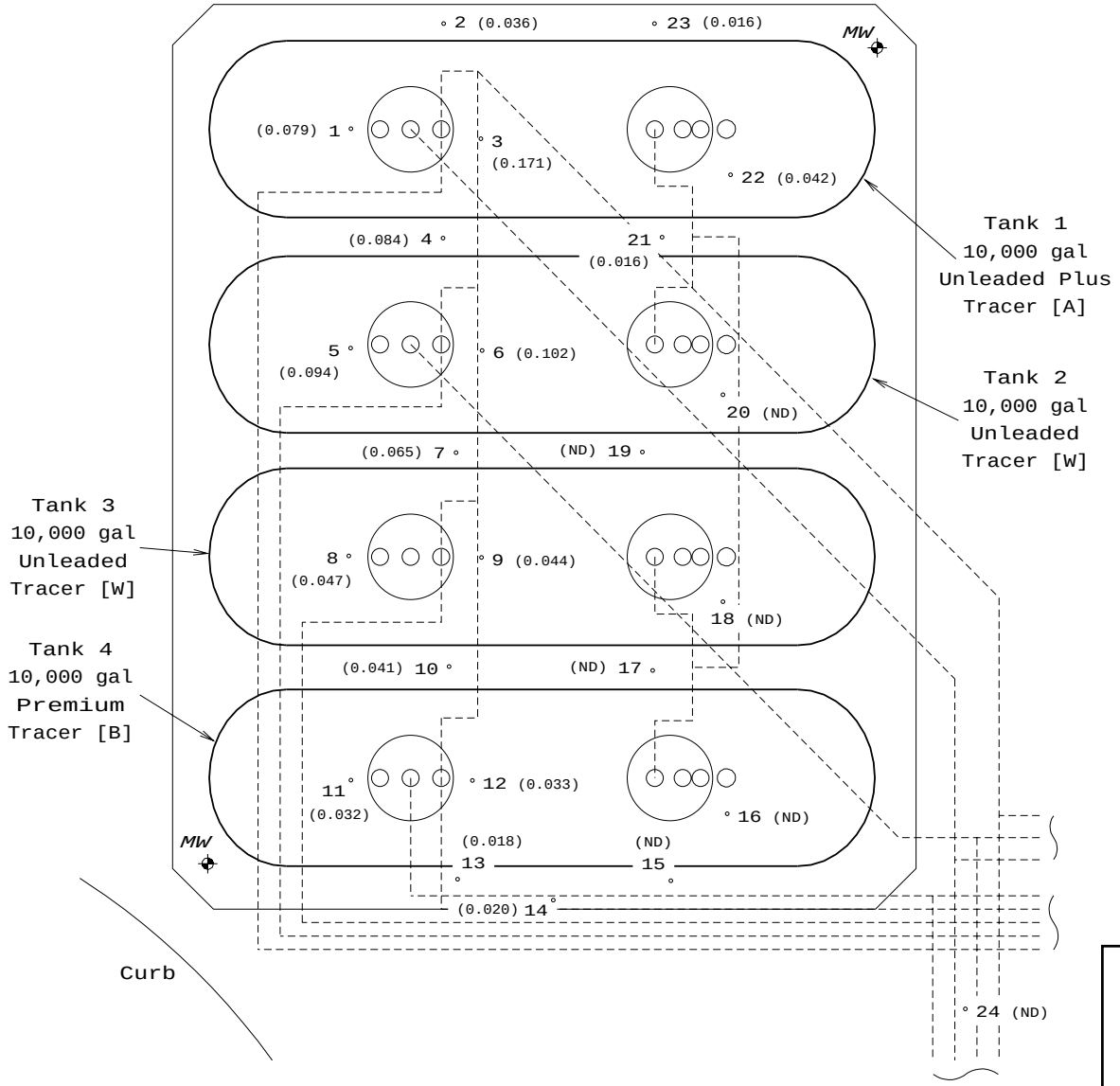
0 15
feet

File:SY17-01 Size:A
Arc:3665SY17 Date:03-28-01

Site SY 17

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.079)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

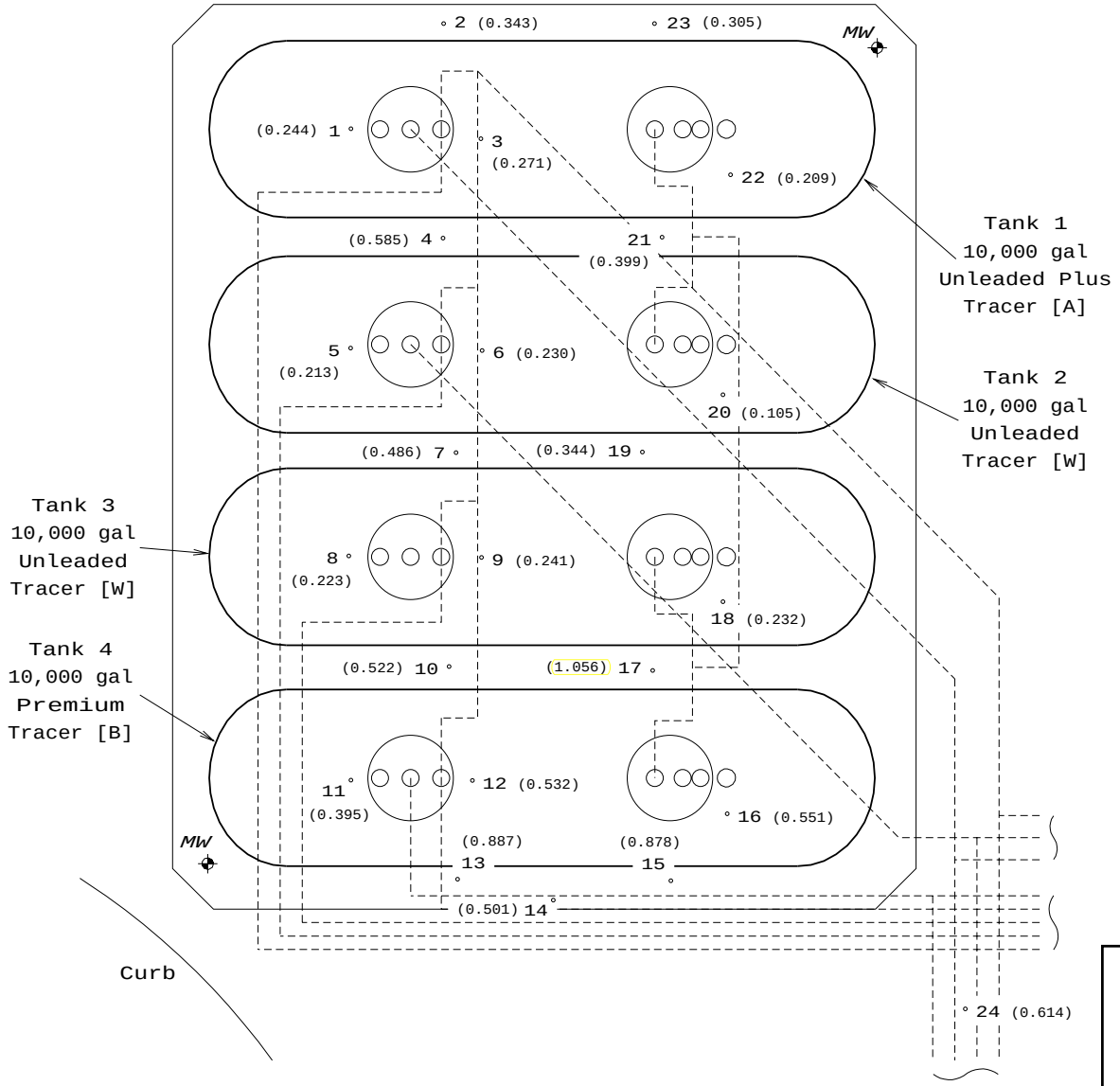
30665-000.U

Site SY 17

Tracer [A] Distribution

File:SY17-1A Size:A
Arc:3665SY17 Date:03-28-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.079)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

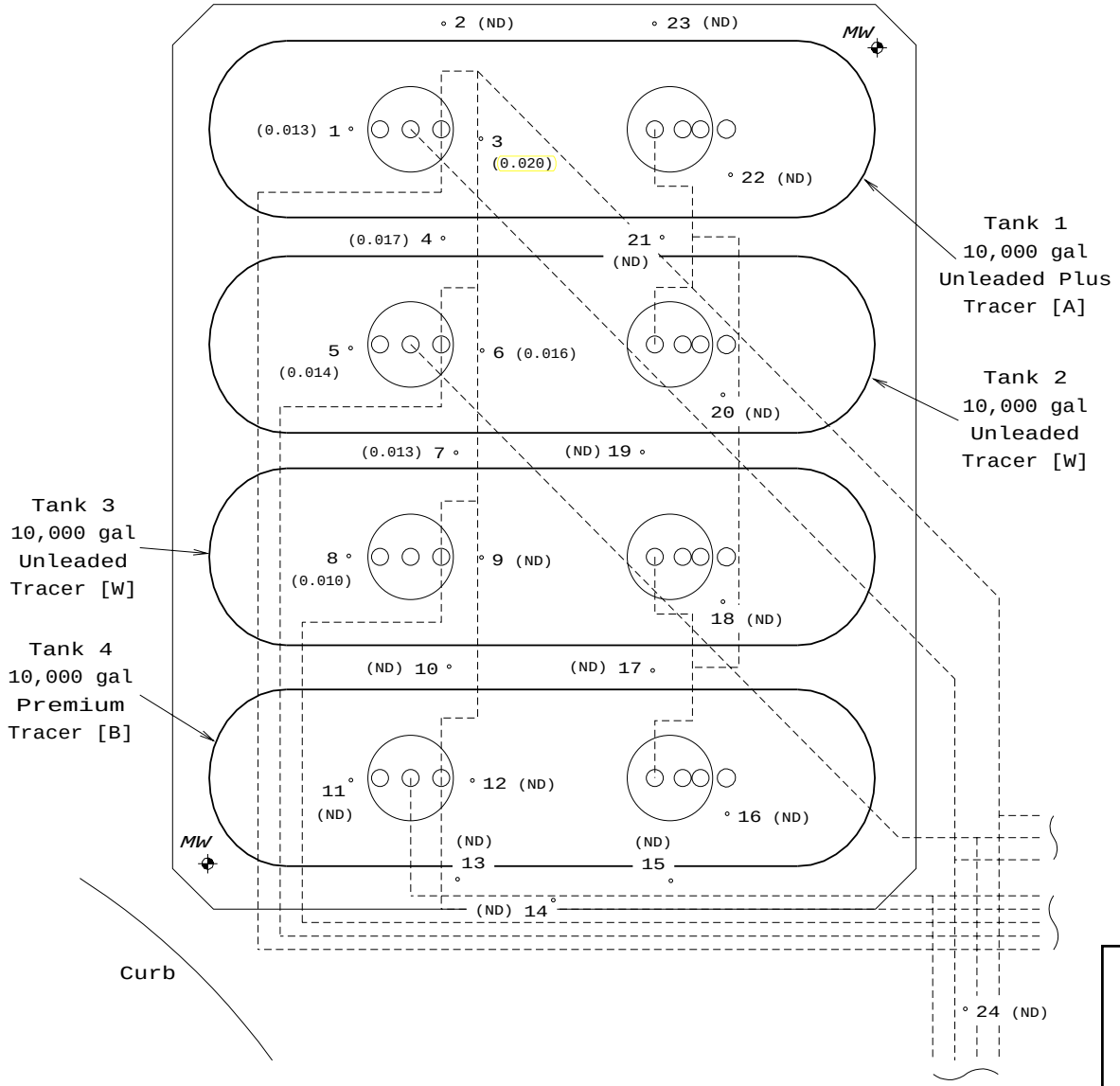
30665-000.U

Site SY 17

Tracer [B] Distribution

File:SY17-1B Size:A
Arc:3665SY17 Date:03-28-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.079)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

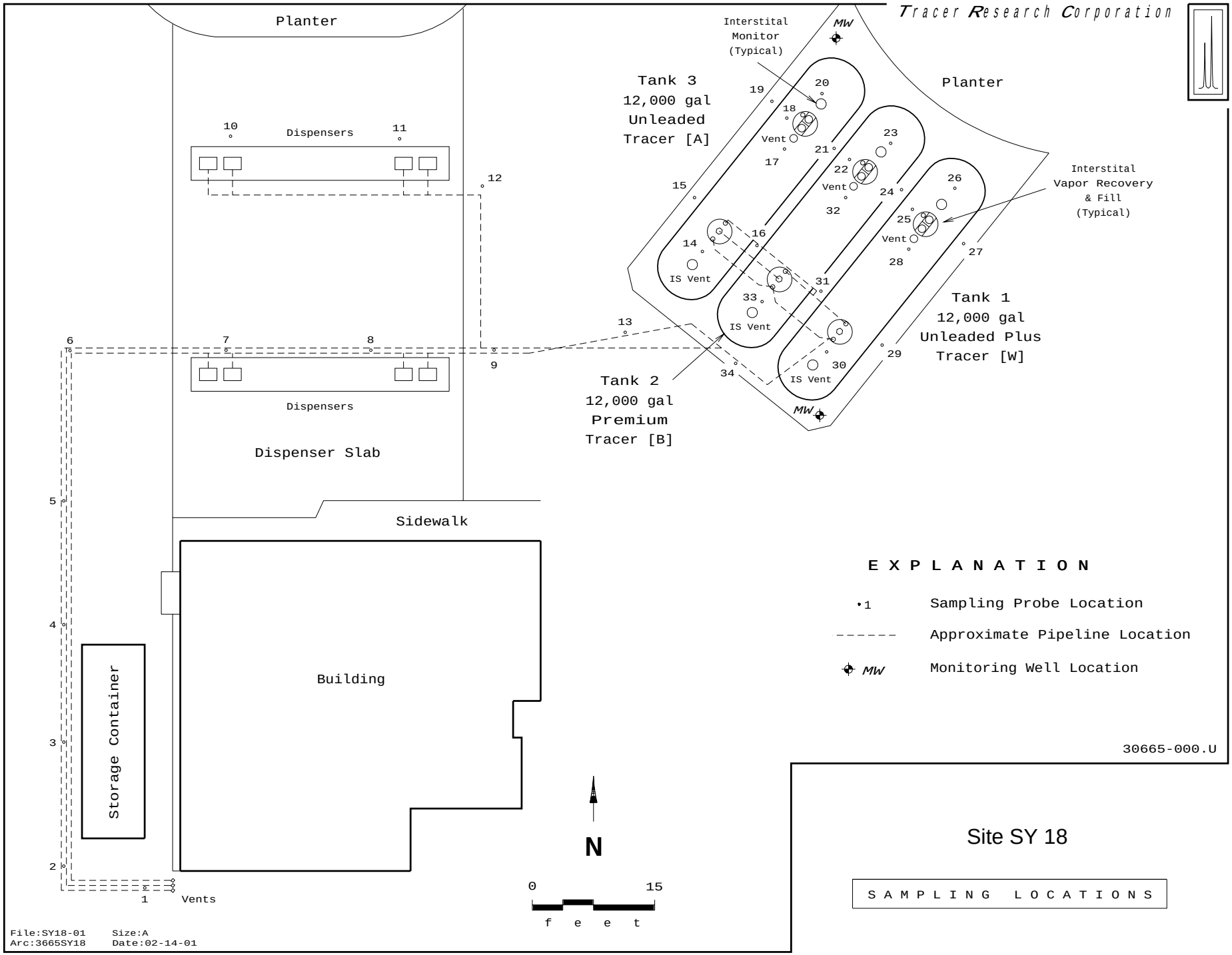
30665-000.U

Site SY 17

Tracer [W] Distribution

File:SY17-1C Size:A
Arc:3665SY17 Date:03-28-01

Tracer Research Corporation

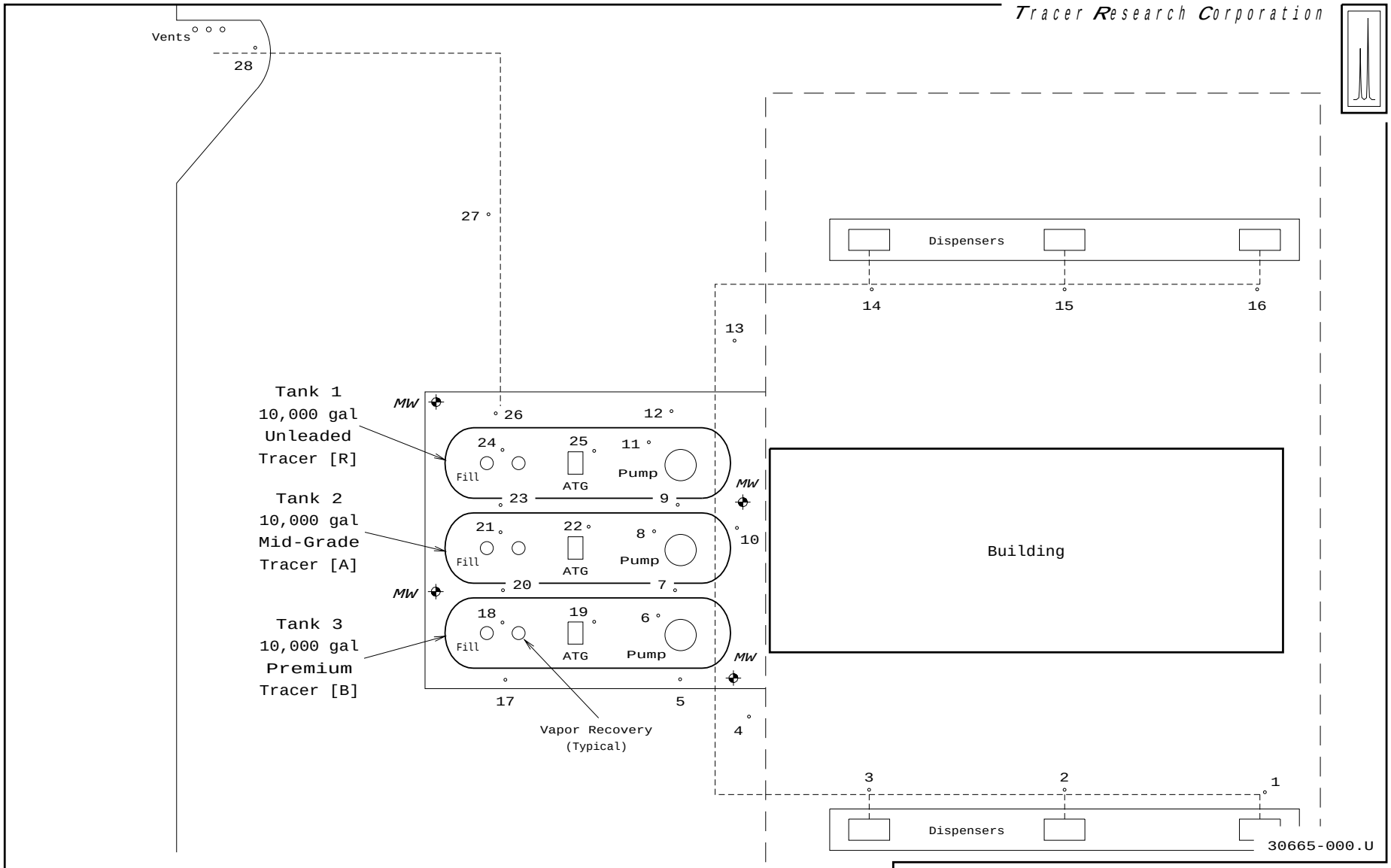


Site SY 18

SAMPLING LOCATIONS

File:SY18-01 Size:A
Arc:3665SY18 Date:02-14-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location

N

0 10 20

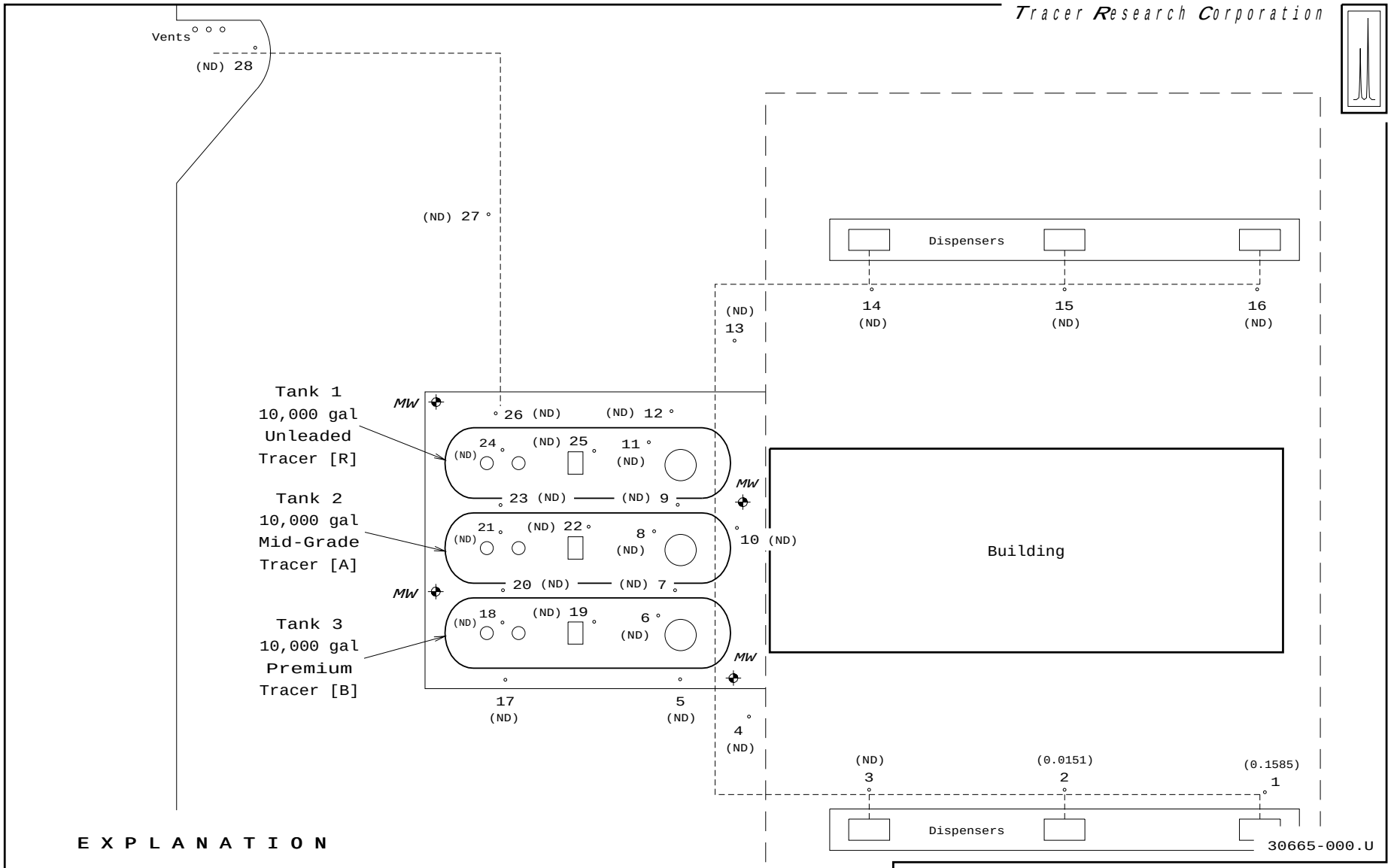
f e e t

File:SY19-01 Size:A
Arc:3665SY19 Date:05-10-01

Site SY 19

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.1585)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect

N

0 10 20

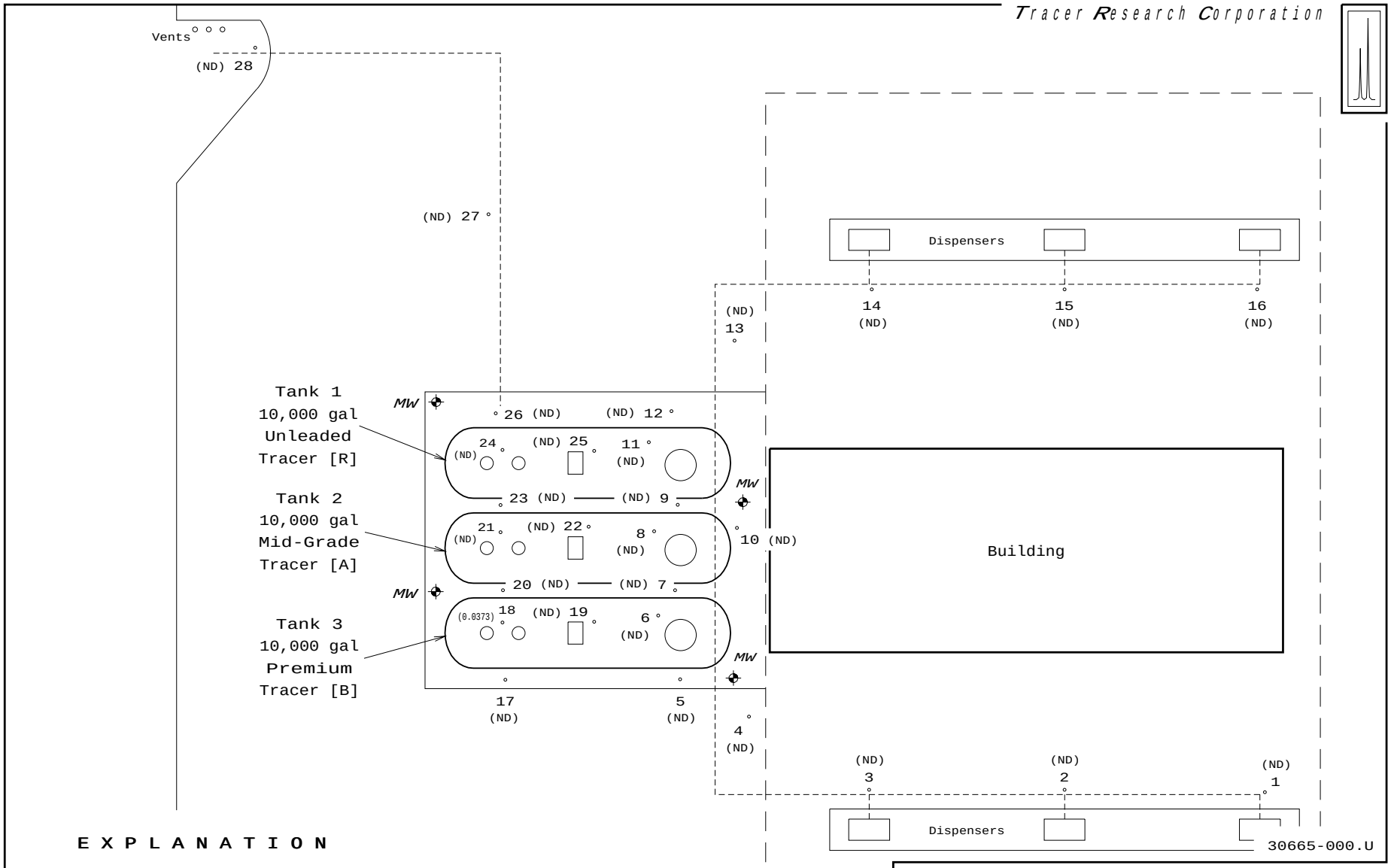
f e e t

File:SY19-1A Size:A
Arc:3665SY19 Date:05-10-01

Site SY 19

Tracer [A] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.0373)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

0 10 20

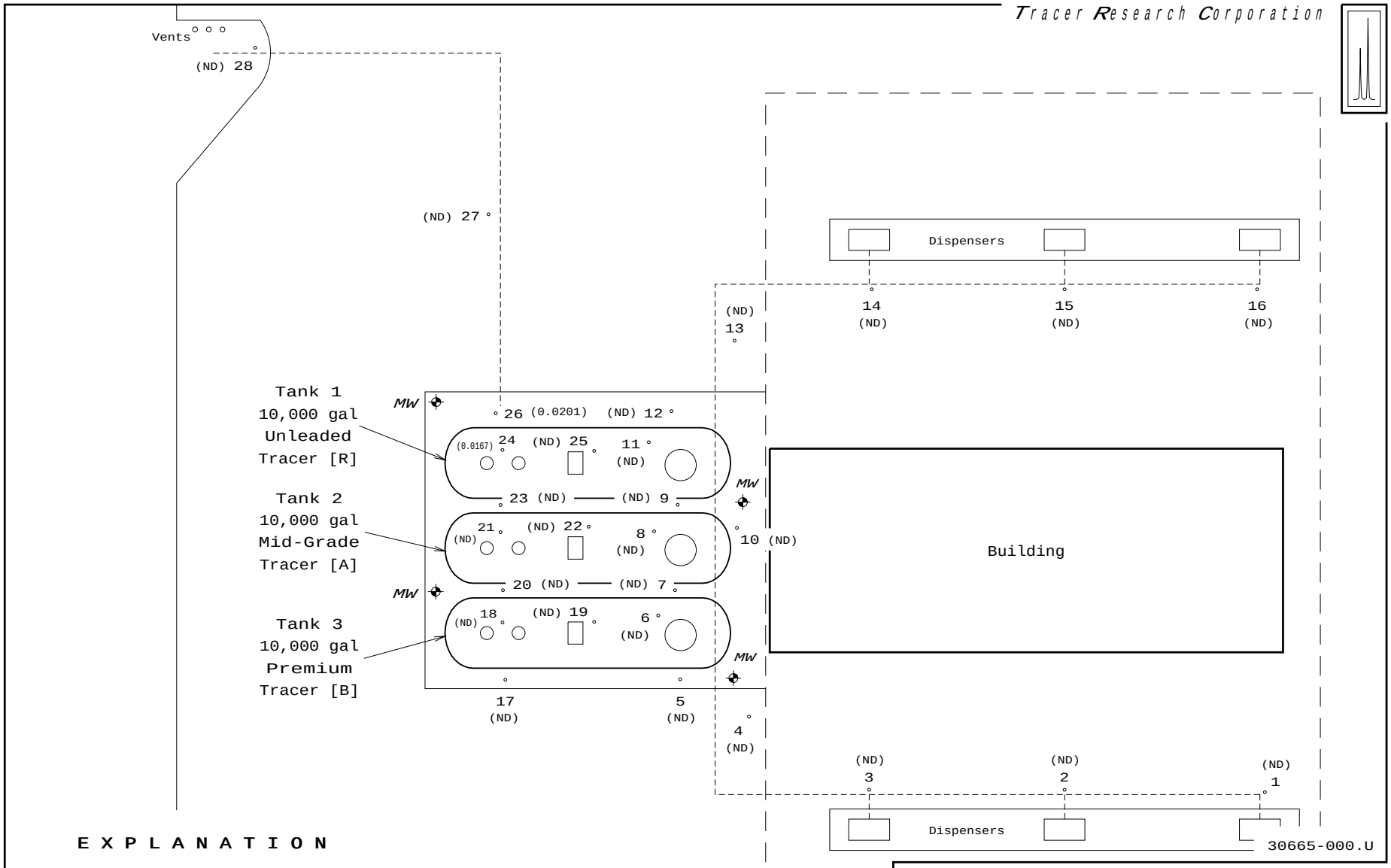
feet

File:SY19-1B Size:A
Arc:3665SY19 Date:05-10-01

Site SY 19

Tracer [B] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.0167)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

0 10 20

f e e t

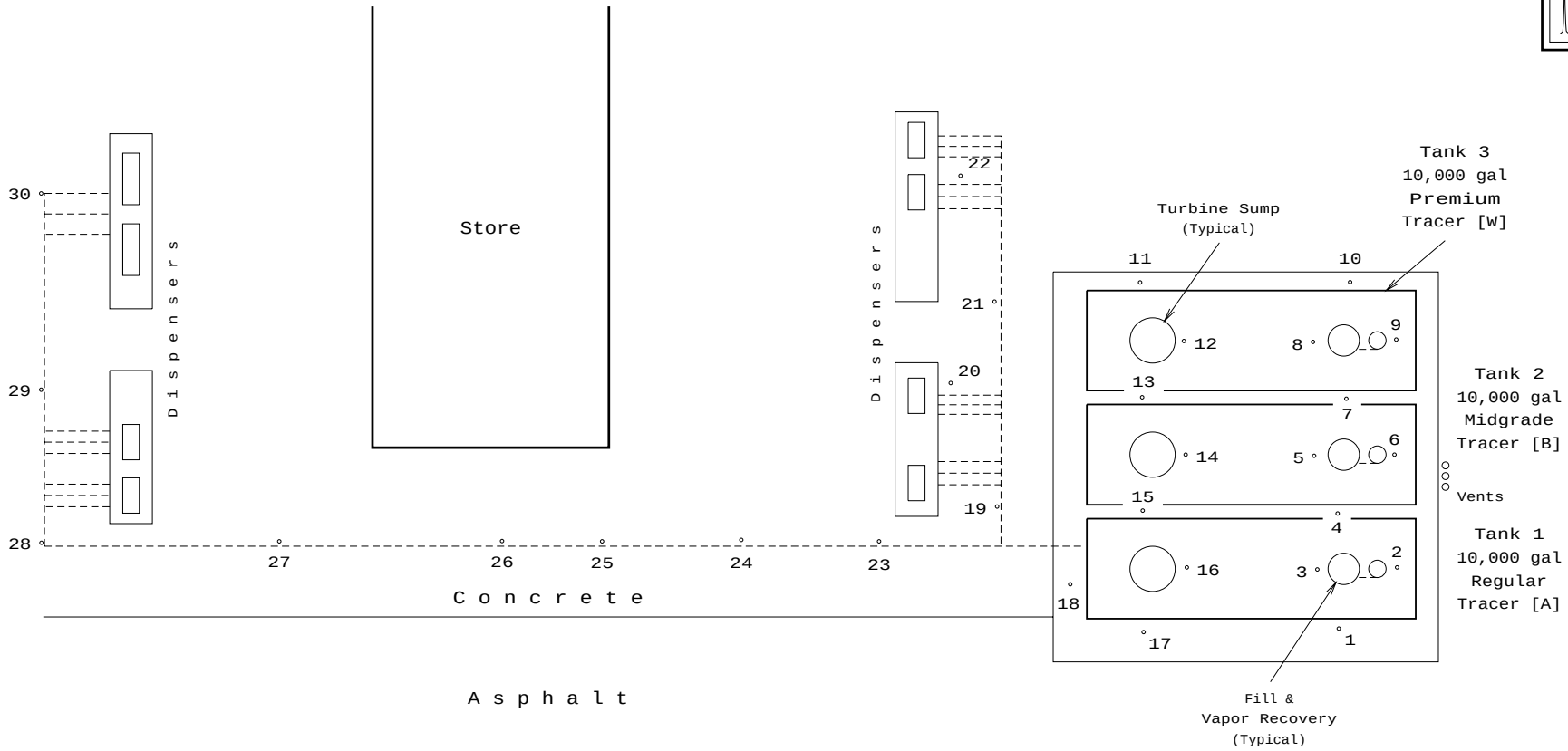
File:SY19-1C
Arc:3665SY19

Size:A
Date:05-10-01

Site SY 19

Tracer [R] Distribution

Tracer Research Corporation



30665-000.U

EXPLANATION

•1 Sampling Probe Location

-------- Approximate Pipeline Location

N

0 15

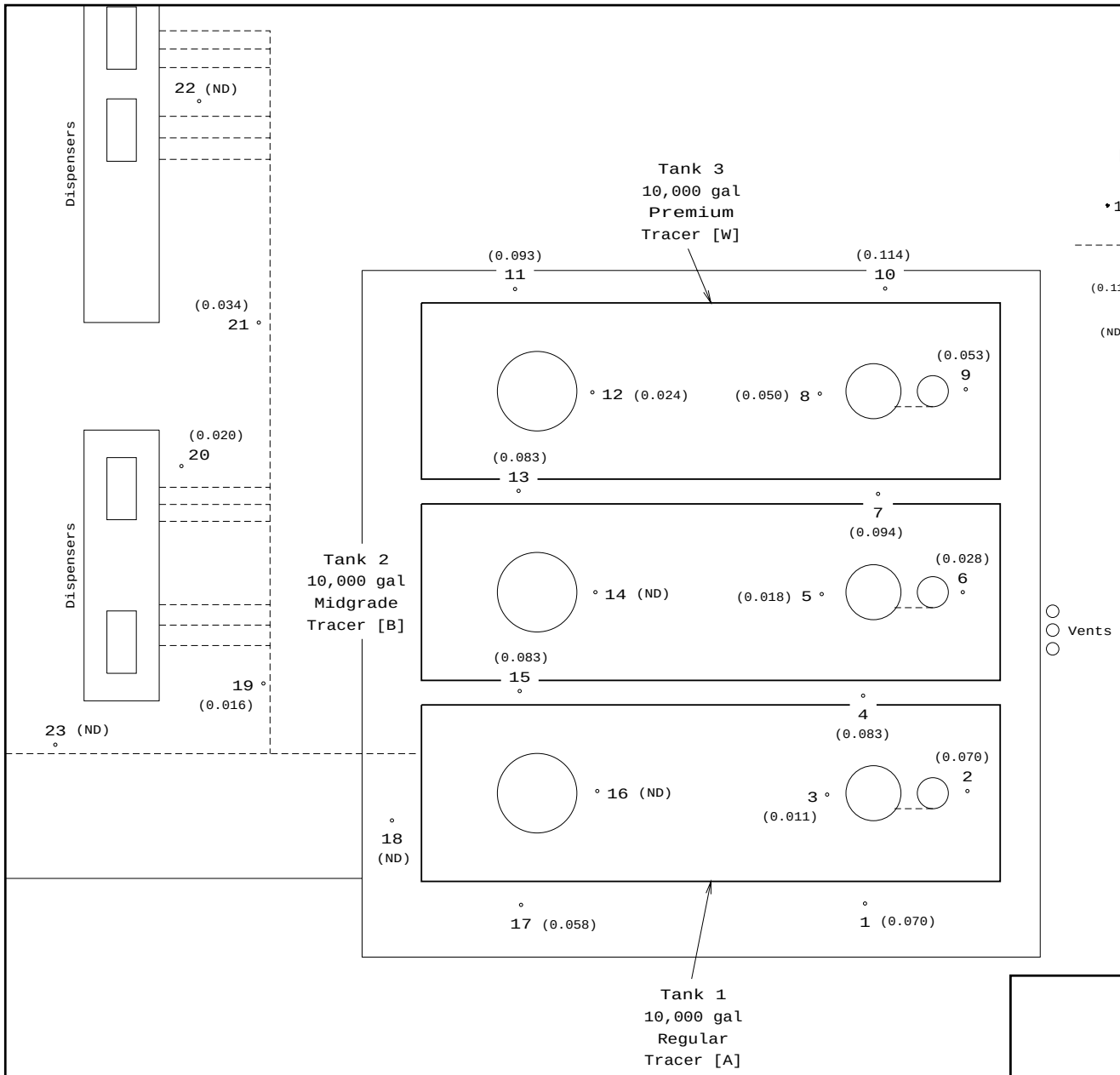
f e e t

File:SY20-01 Size:A
Arc:3665SY20 Date:04-17-01

Site SY 20

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.114)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

feet

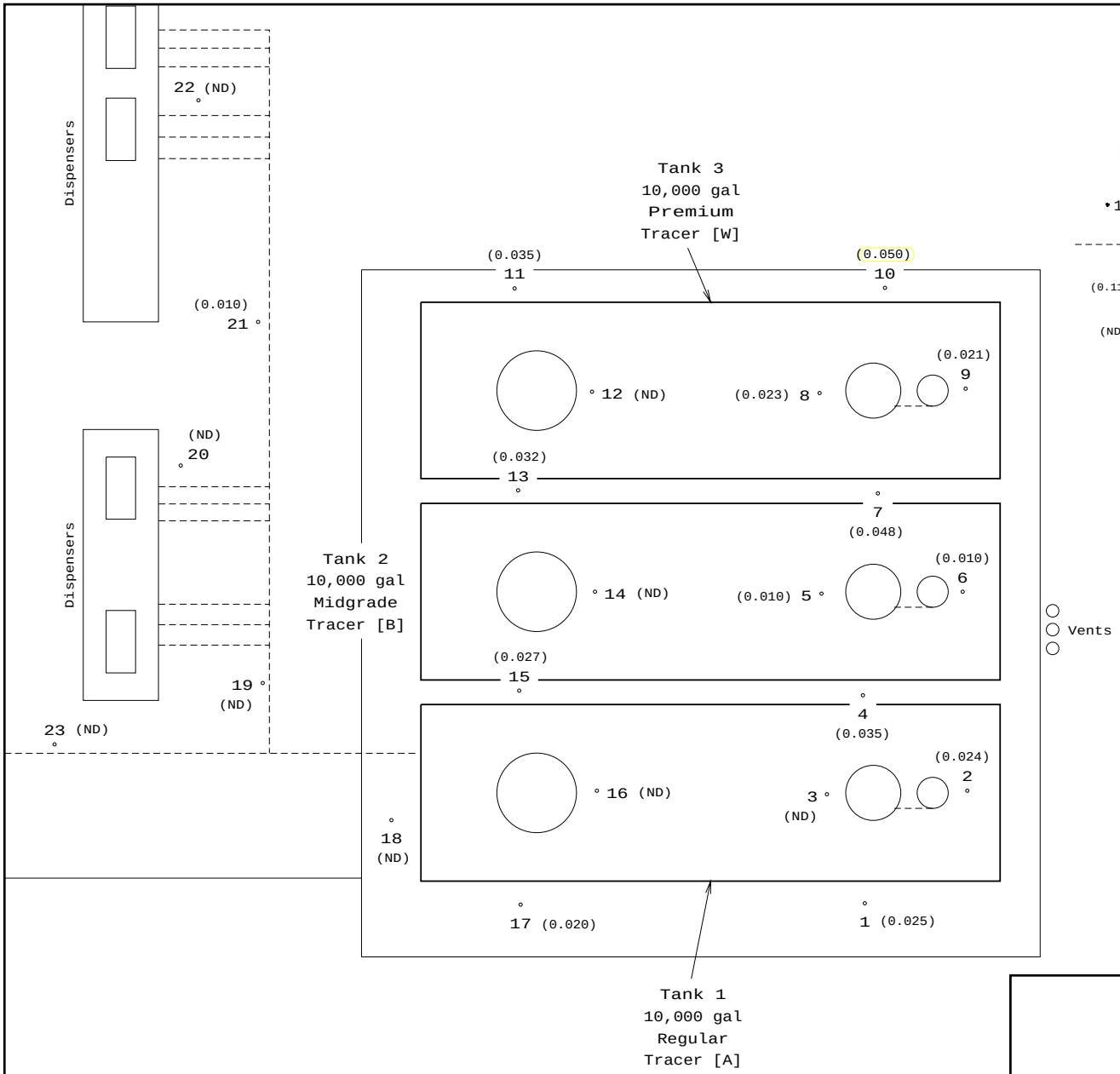
30665-000.U

Site SY 20

Tracer [A] Distribution

File:SY20-1A Size:A
Arc:3665SY20 Date:04-17-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.114)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

feet

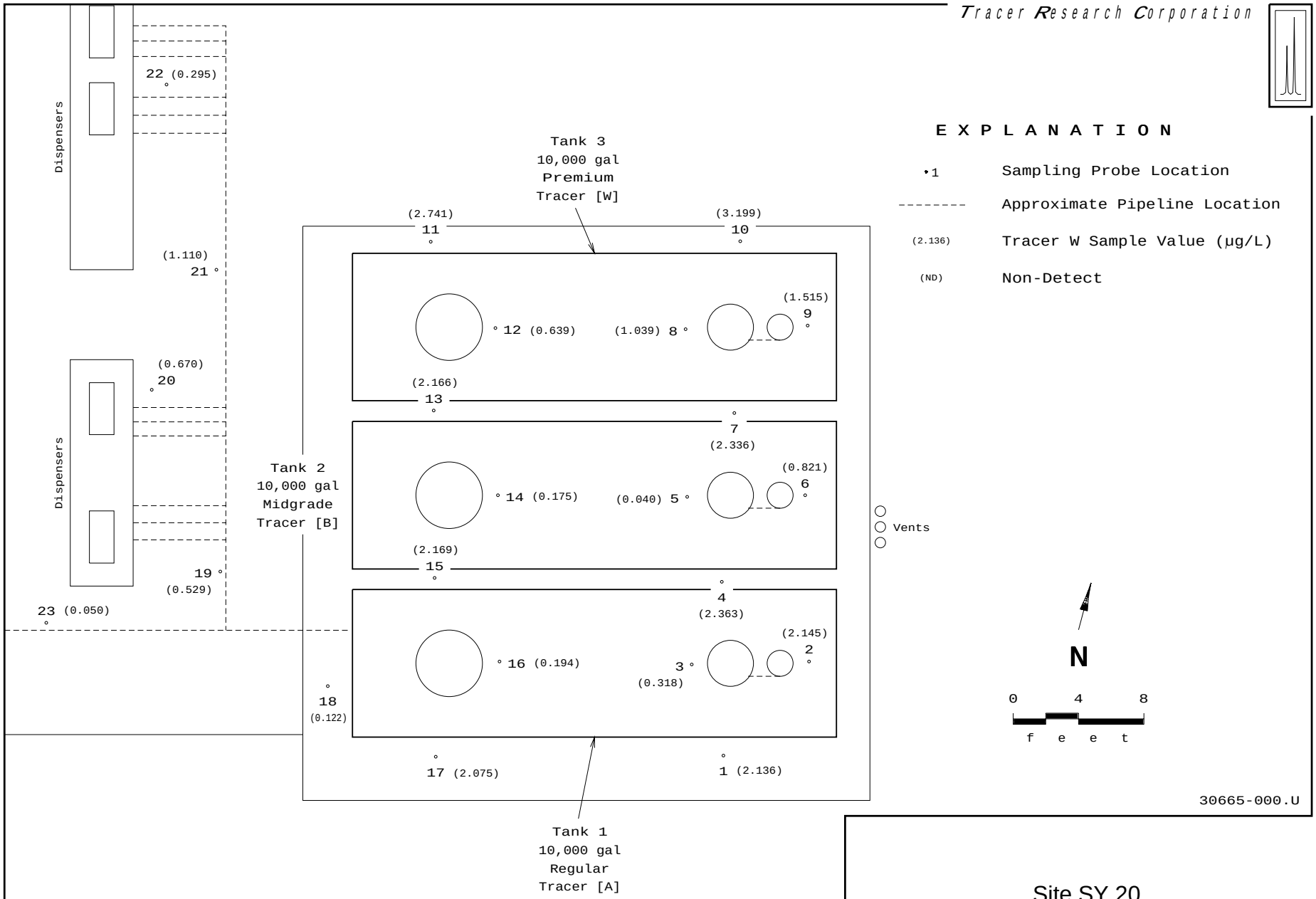
30665-000.U

Site SY 20

Tracer [B] Distribution

File:SY20-1B Size:A
Arc:3665SY20 Date:04-17-01

Tracer Research Corporation



EXPLANATION

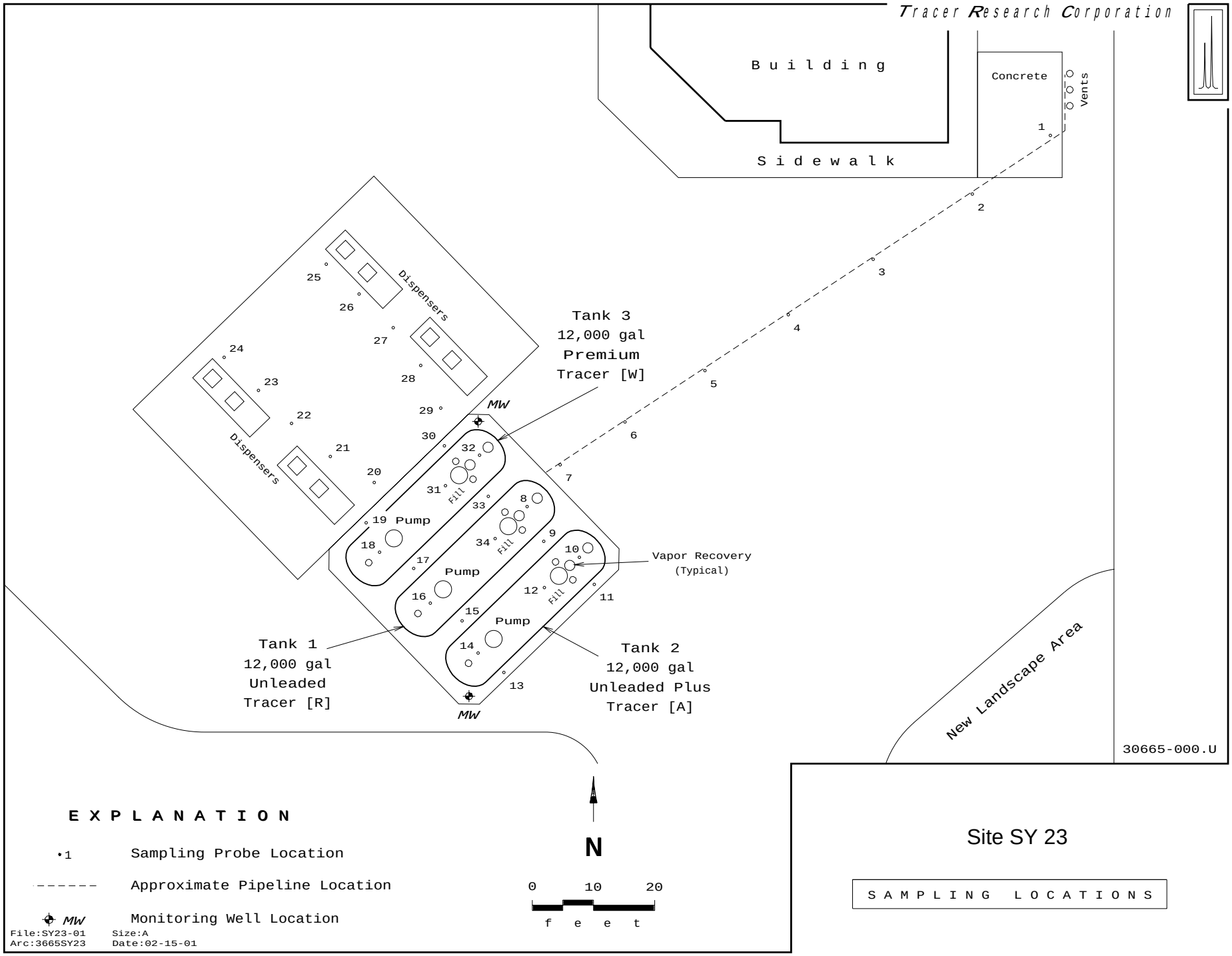
•1	Sampling Probe Location
--------	Approximate Pipeline Location
(2.136)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

30665-000.U

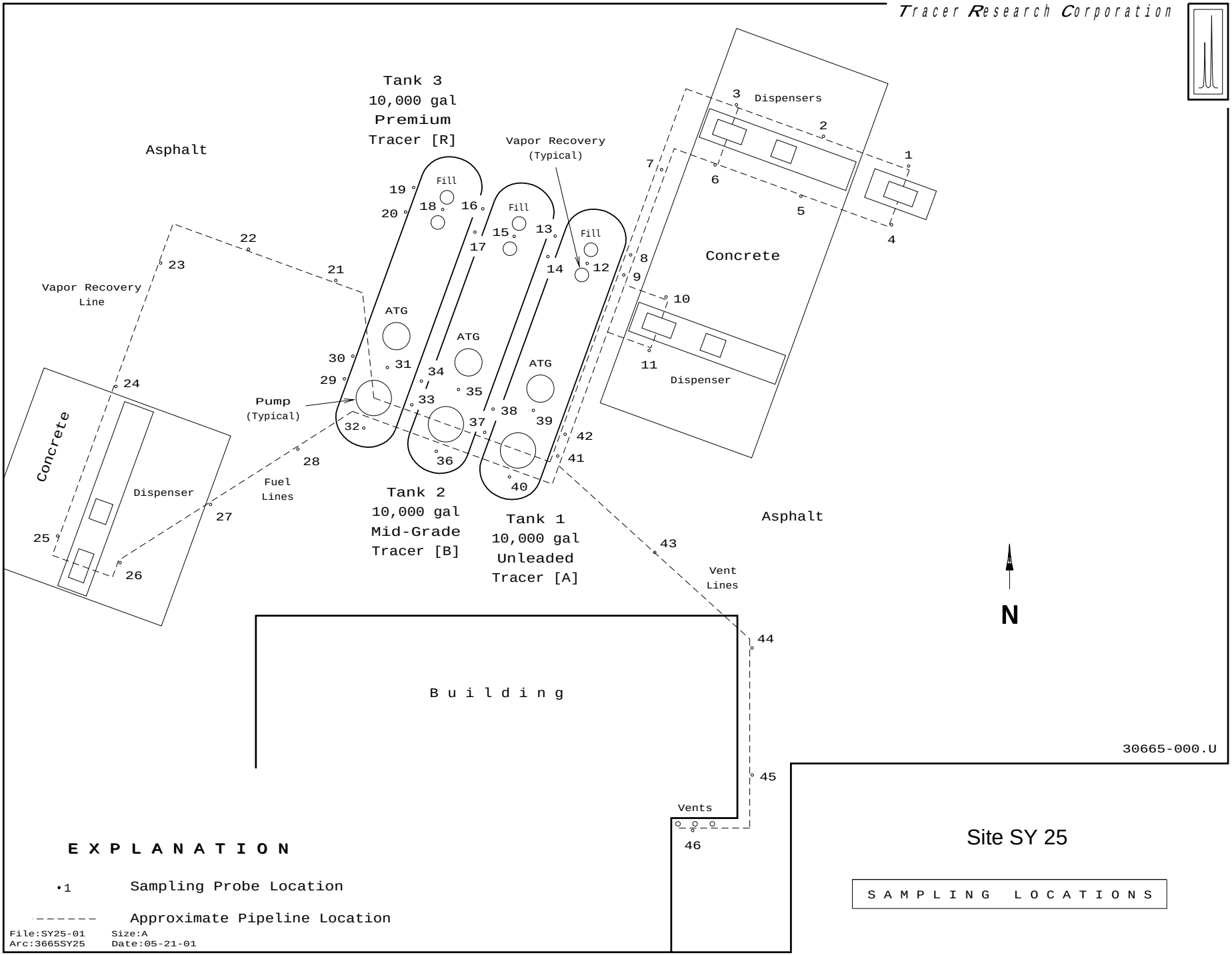
Site SY 20

Tracer [W] Distribution

File:SY20-1C Size:A
Arc:3665SY20 Date:04-17-01


Tracer Research Corporation
Building
Concrete
Vents
Sidewalk
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
Dispensers
Dispensers
Pump
Pump
Pump
Fill
Fill
Fill
MW
MW
Tank 3
12,000 gal
Premium
Tracer [W]
Tank 1
12,000 gal
Unleaded
Tracer [R]
Tank 2
12,000 gal
Unleaded Plus
Tracer [A]
Vapor Recovery
(Typical)
New Landscape Area
30665-000.U
EXPLANATION
1 Sampling Probe Location
Approximate Pipeline Location
MW Monitoring Well Location
N
0 10 20
feet
File:SY23-01
Arc:3665SY23
Size:A
Date:02-15-01
Site SY 23
SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

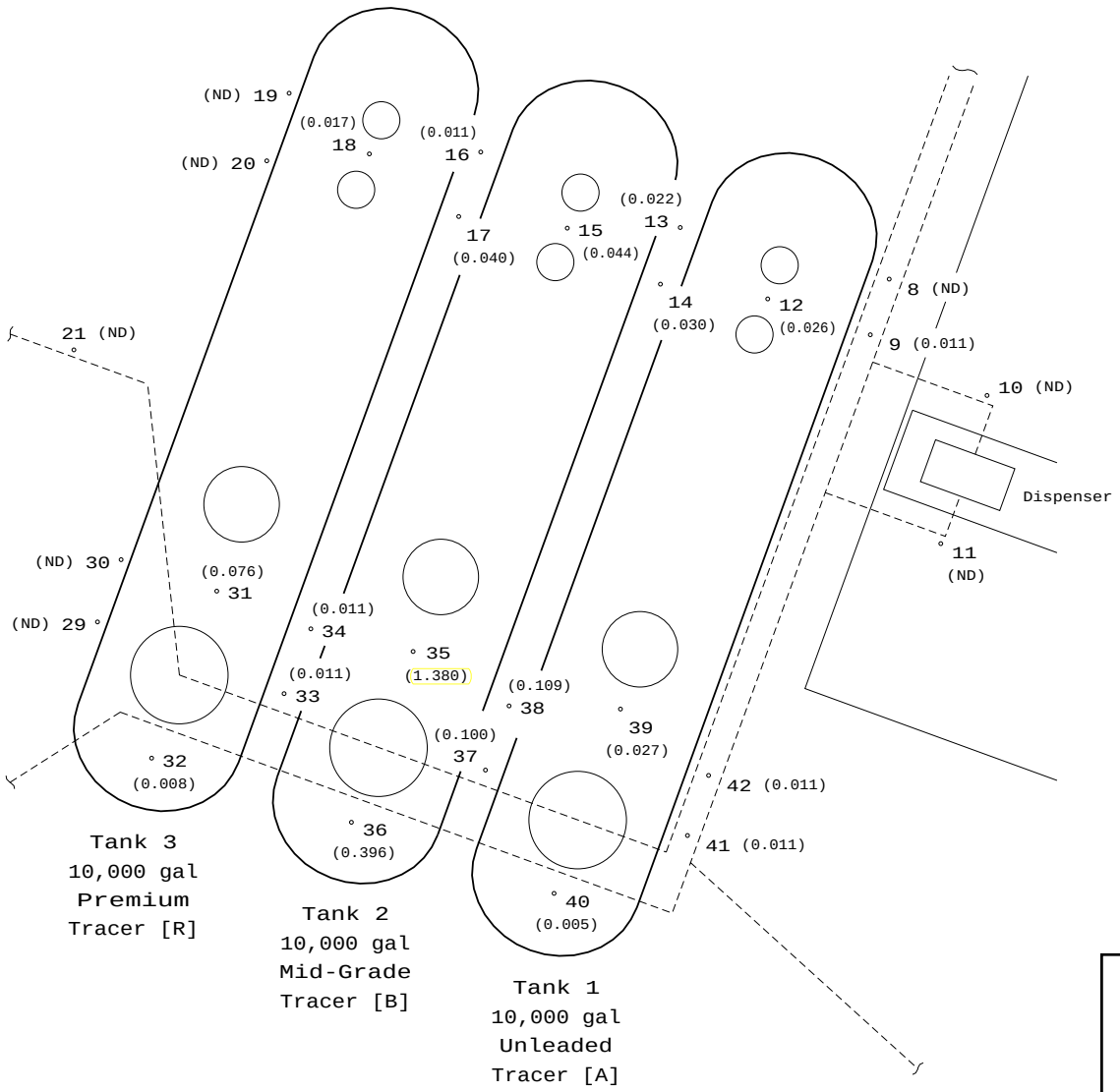
------ Approximate Pipeline Location

File:SY25-01 Size:A
Arc:3665SY25 Date:05-21-01

Site SY 25

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.011)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

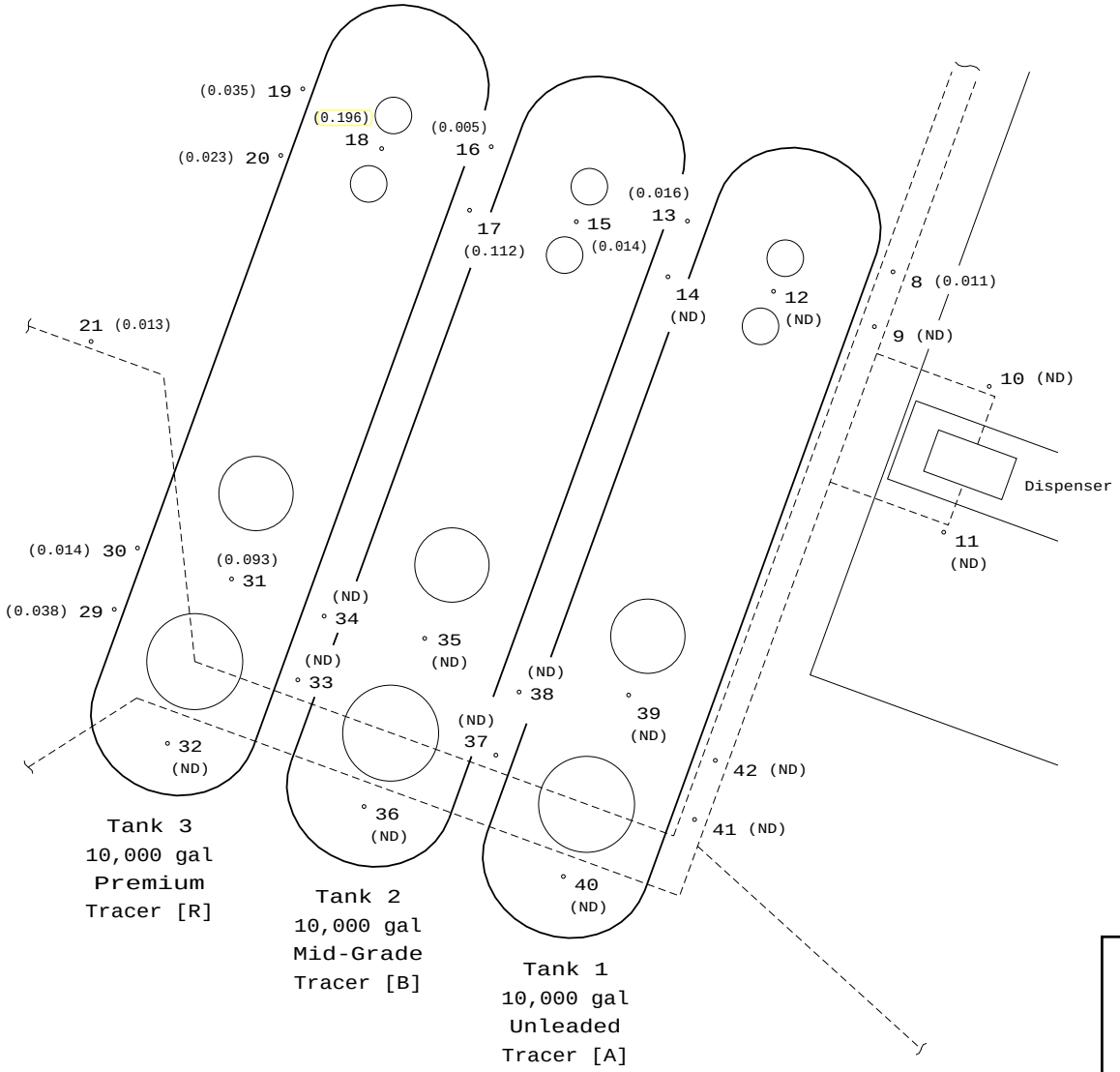
30665-000.U

Site SY 25

Tracer [B] Distribution

File:SY25-1A Size:A
Arc:3665SY25 Date:05-21-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.011)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

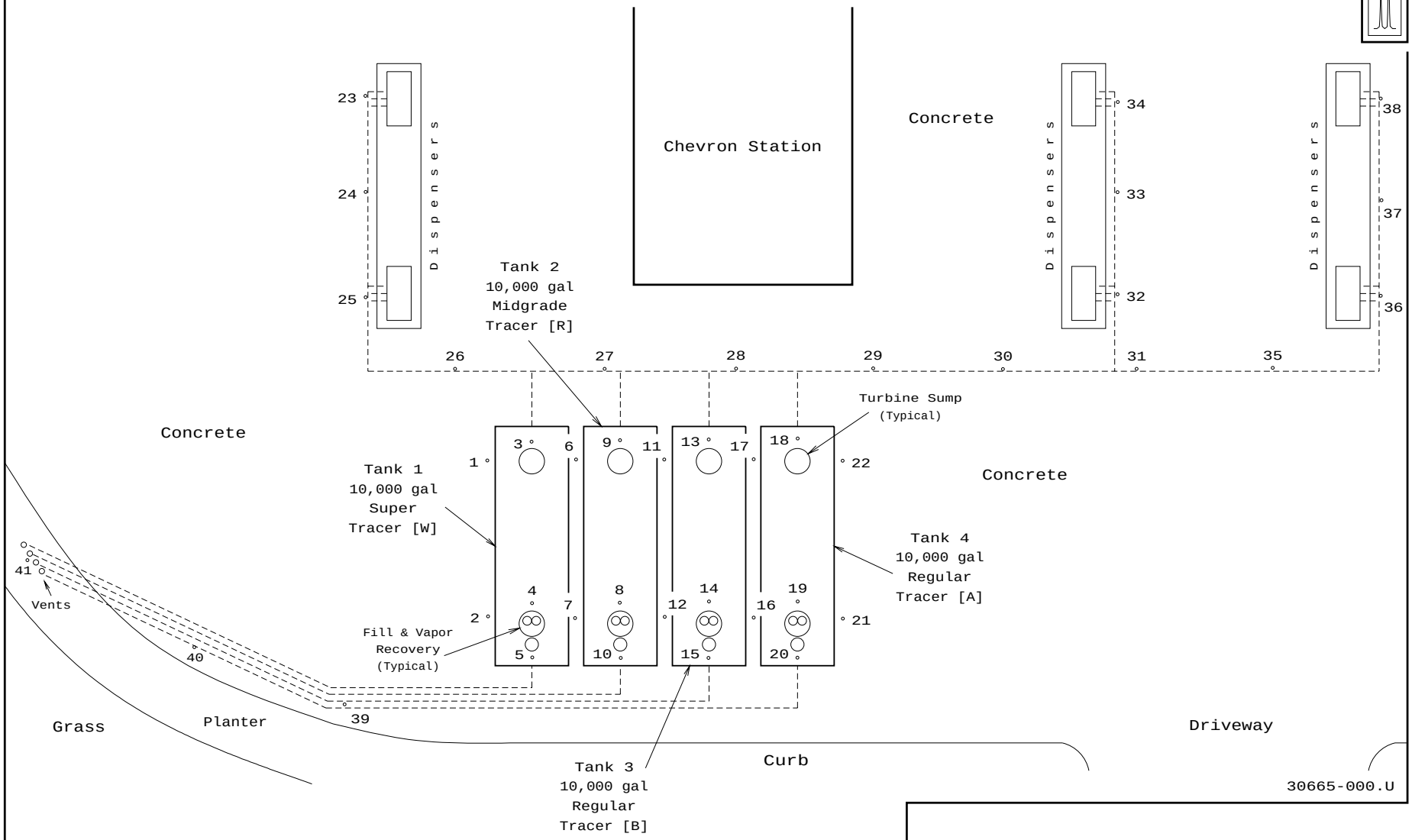
30665-000.U

Site SY 25

Tracer [R] Distribution

File:SY25-1B Size:A
Arc:3665SY25 Date:05-21-01

Tracer Research Corporation



E X P L A N A T I O N

•1 Sampling Probe Location

-------- Approximate Pipeline Location

File:SY26-01 Size:A
Arc:3665SY26 Date:03-09-01

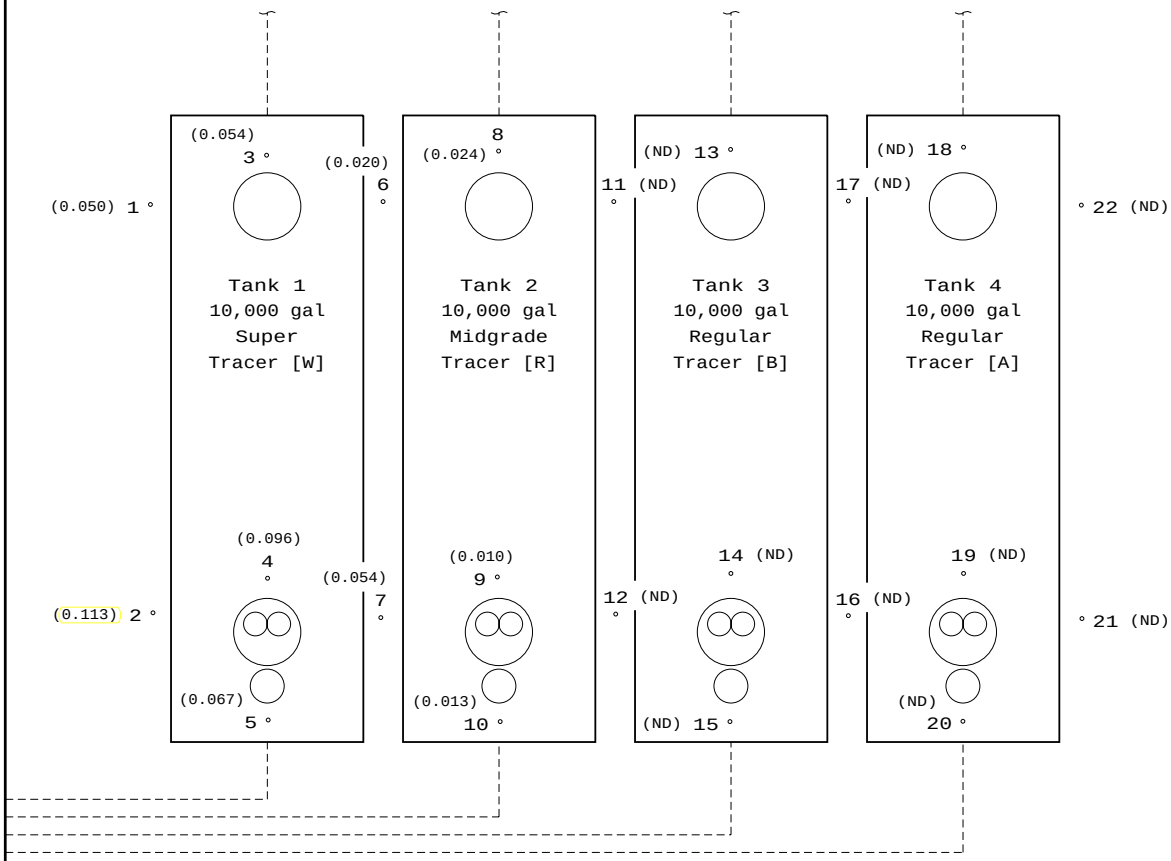
North

0 8 16
f e e t

Site SY 26

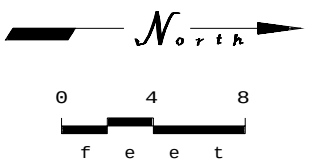
S A M P L I N G L O C A T I O N S

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.410)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect



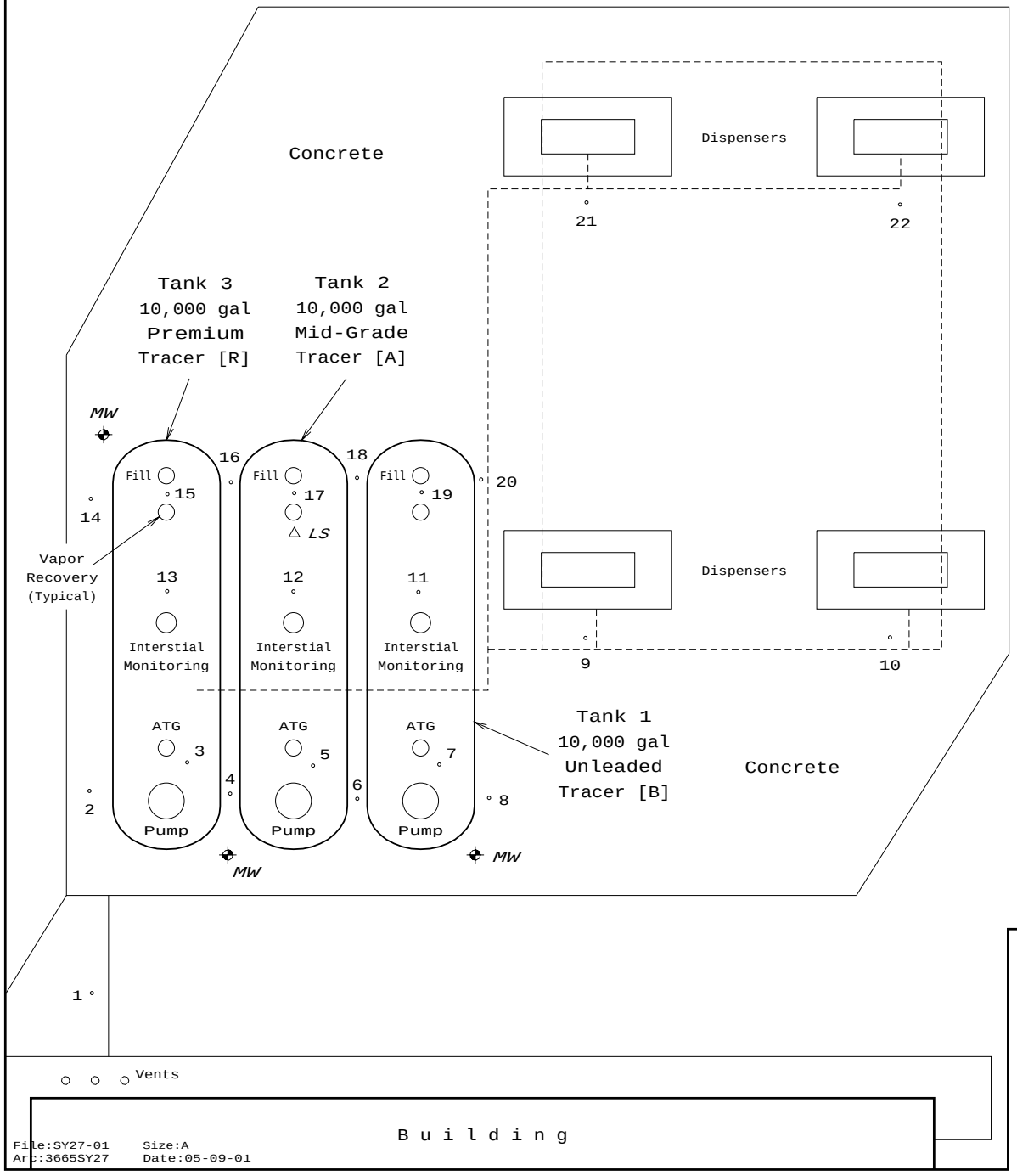
30665-000.U

Site SY 26

Tracer [W] Distribution

File:SY26-1A Size:A
Arc:3665SY26 Date:03-09-01

Tracer Research Corporation



File:SY27-01 Size:A
Arc:3665SY27 Date:05-09-01

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
⌖ MW	Monitoring Well Location
△ LS	Leak Simulation Probe

N

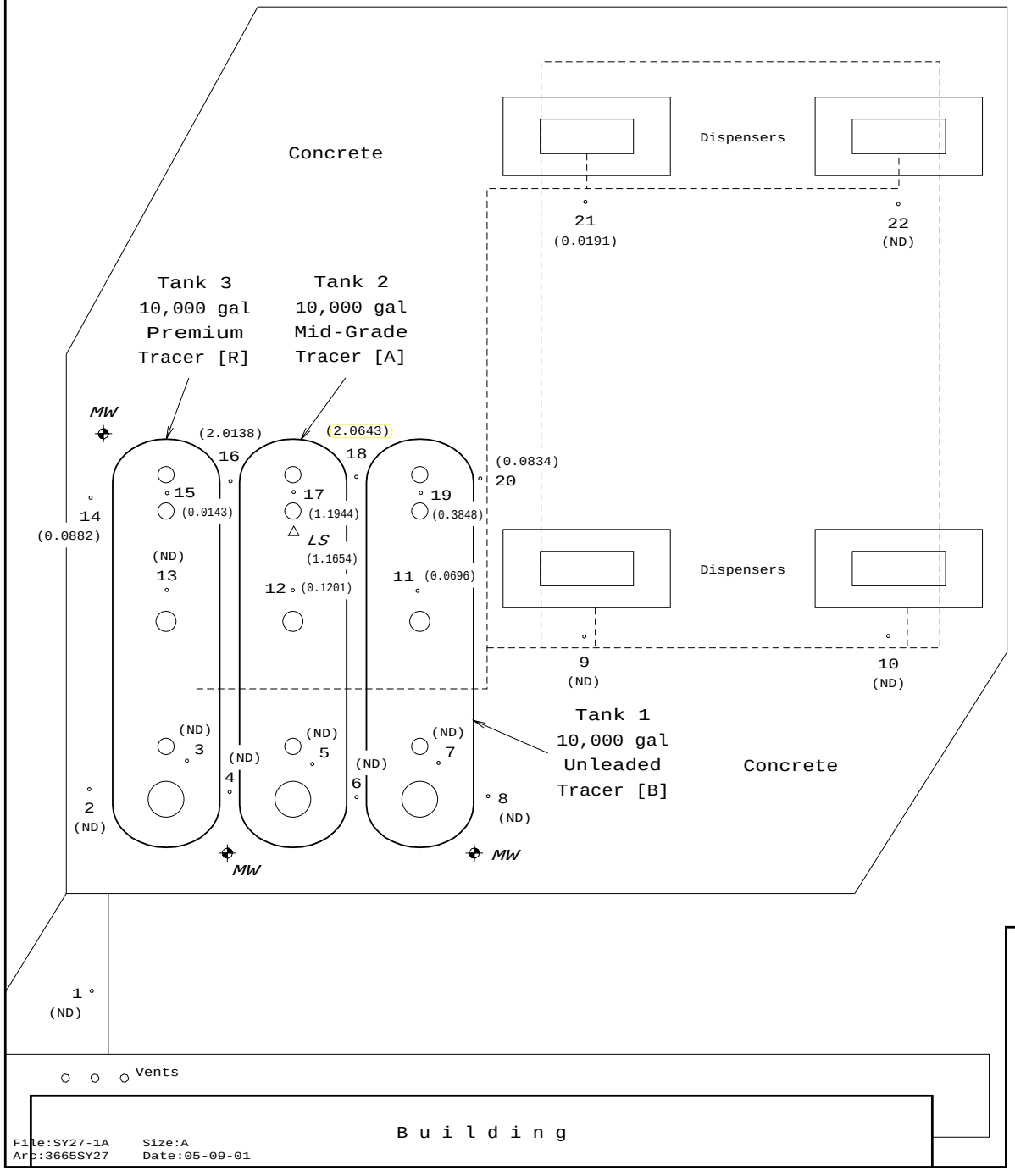
0 6 12
feet

30665-000.U

Site SY 27

SAMPLING LOCATIONS

Tracer Research Corporation



File:SY27-1A Size:A
Arc:3665SY27 Date:05-09-01

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
⌖ MW	Monitoring Well Location
△ LS	Leak Simulation Probe
(0.0696)	Tracer A Sample Value (µg/L)

N

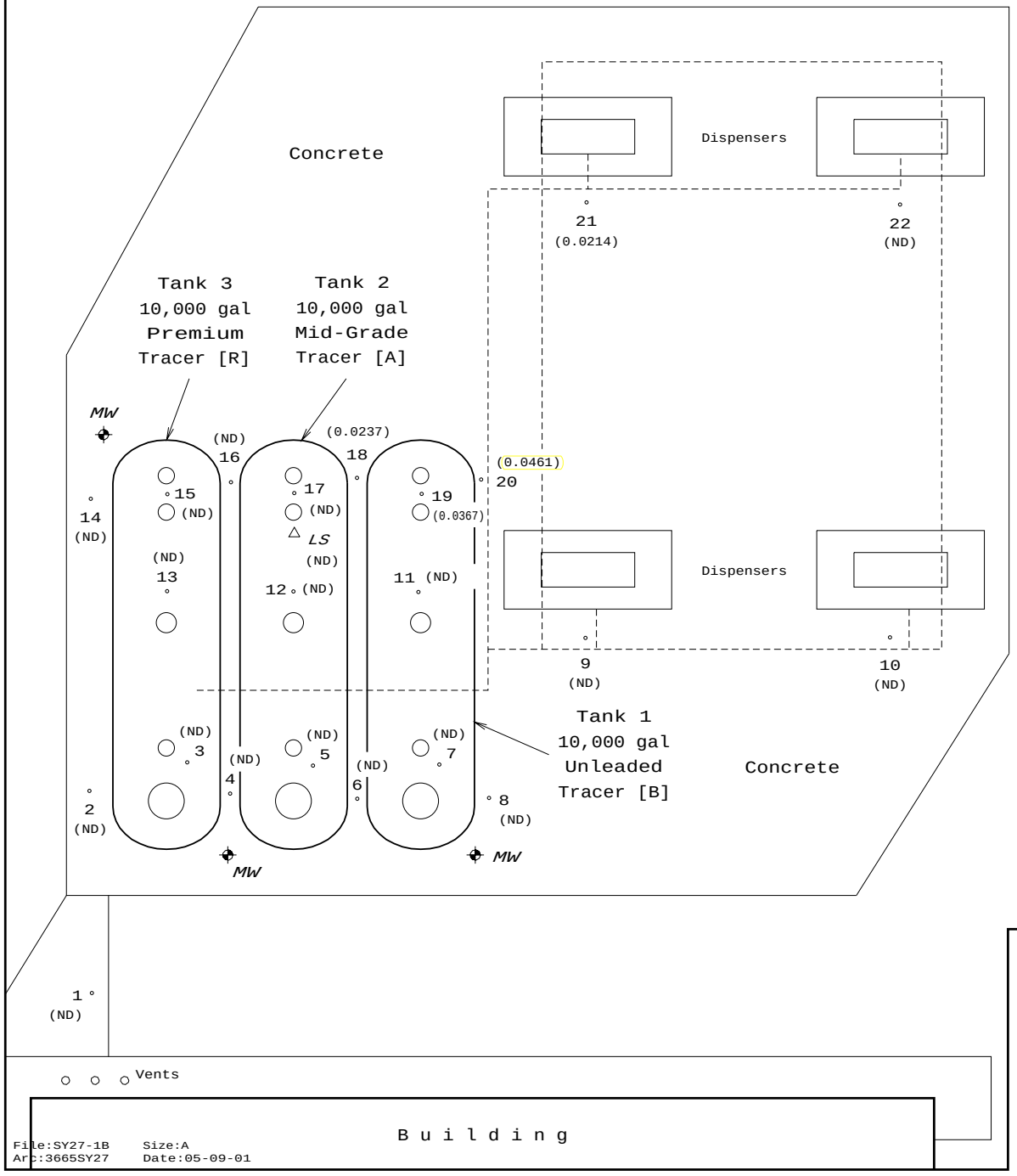
0 6 12
feet

30665-000.U

Site SY 27

Tracer [A] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
⌖ MW	Monitoring Well Location
△ LS	Leak Simulation Probe
(0.0237)	Tracer B Sample Value (µg/L)

N

0 6 12

f e e t

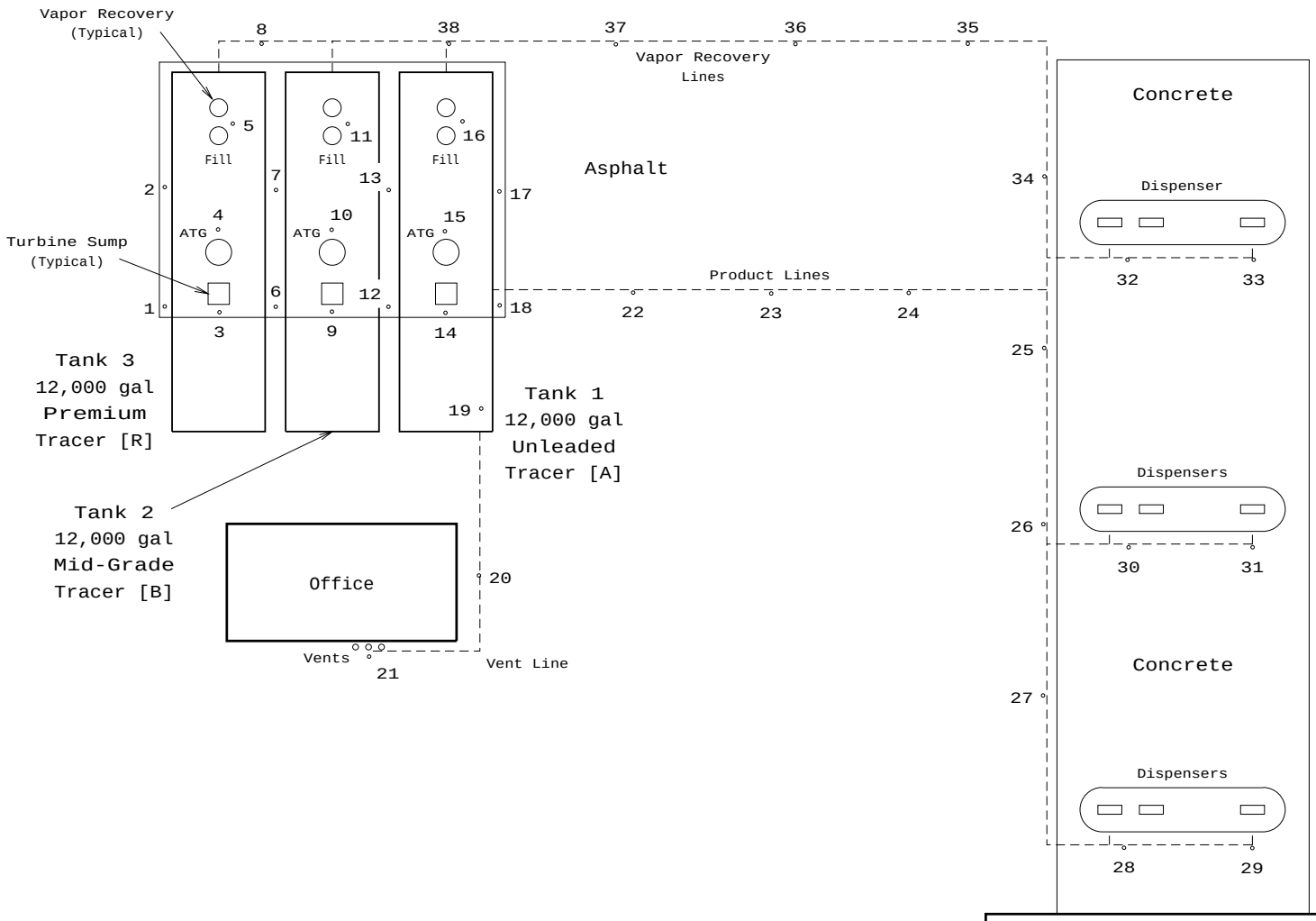
30665-000.U

Site SY 27

Tracer [B] Distribution

File:SY27-1B Size:A
Arc:3665SY27 Date:05-09-01

Tracer Research Corporation



N

0 15

f e e t

E X P L A N A T I O N

•1 Sampling Probe Location

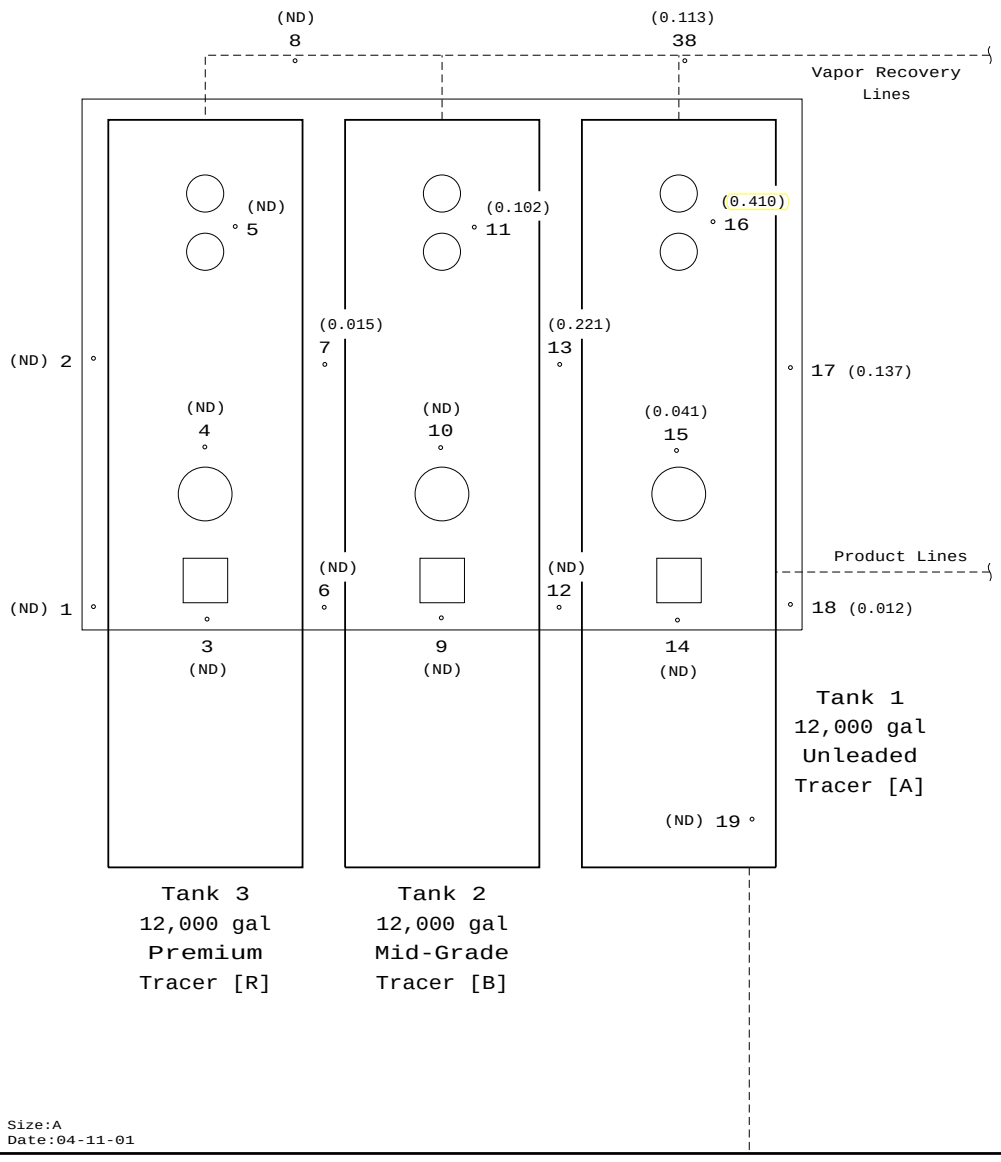
------ Approximate Pipeline Location

File:SY36-01 Size:A
Arc:3665SY36 Date:04-11-01

Site SY 36

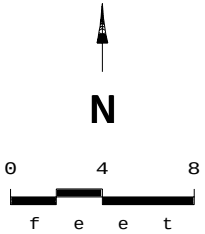
S A M P L I N G L O C A T I O N S

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.113)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect



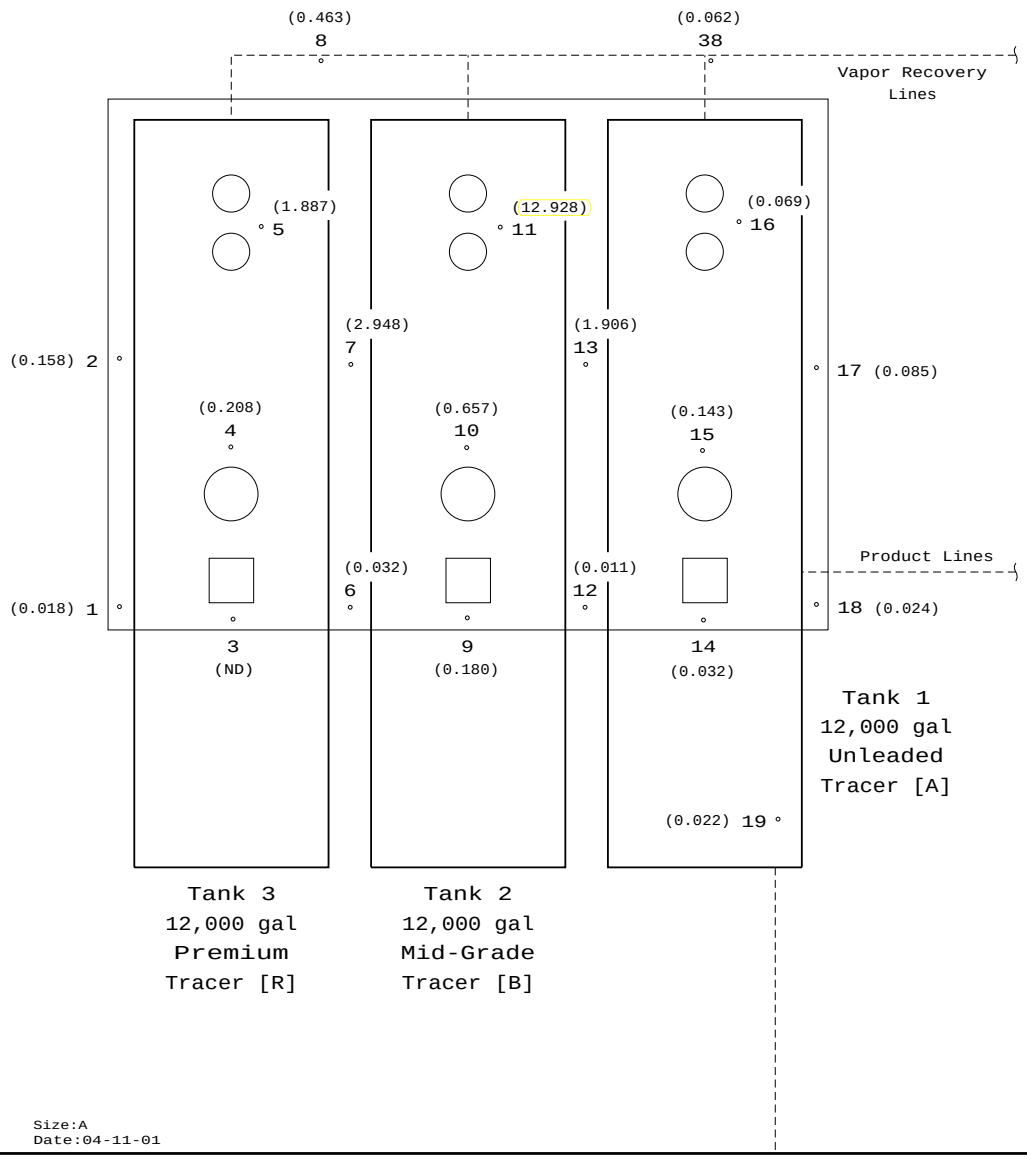
30665-000.U

Site SY 36

T r a c e r [A] D i s t r i b u t i o n

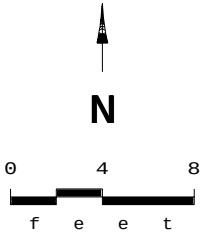
File:SY36-1A Size:A
Arc:3665SY36 Date:04-11-01

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.113)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect



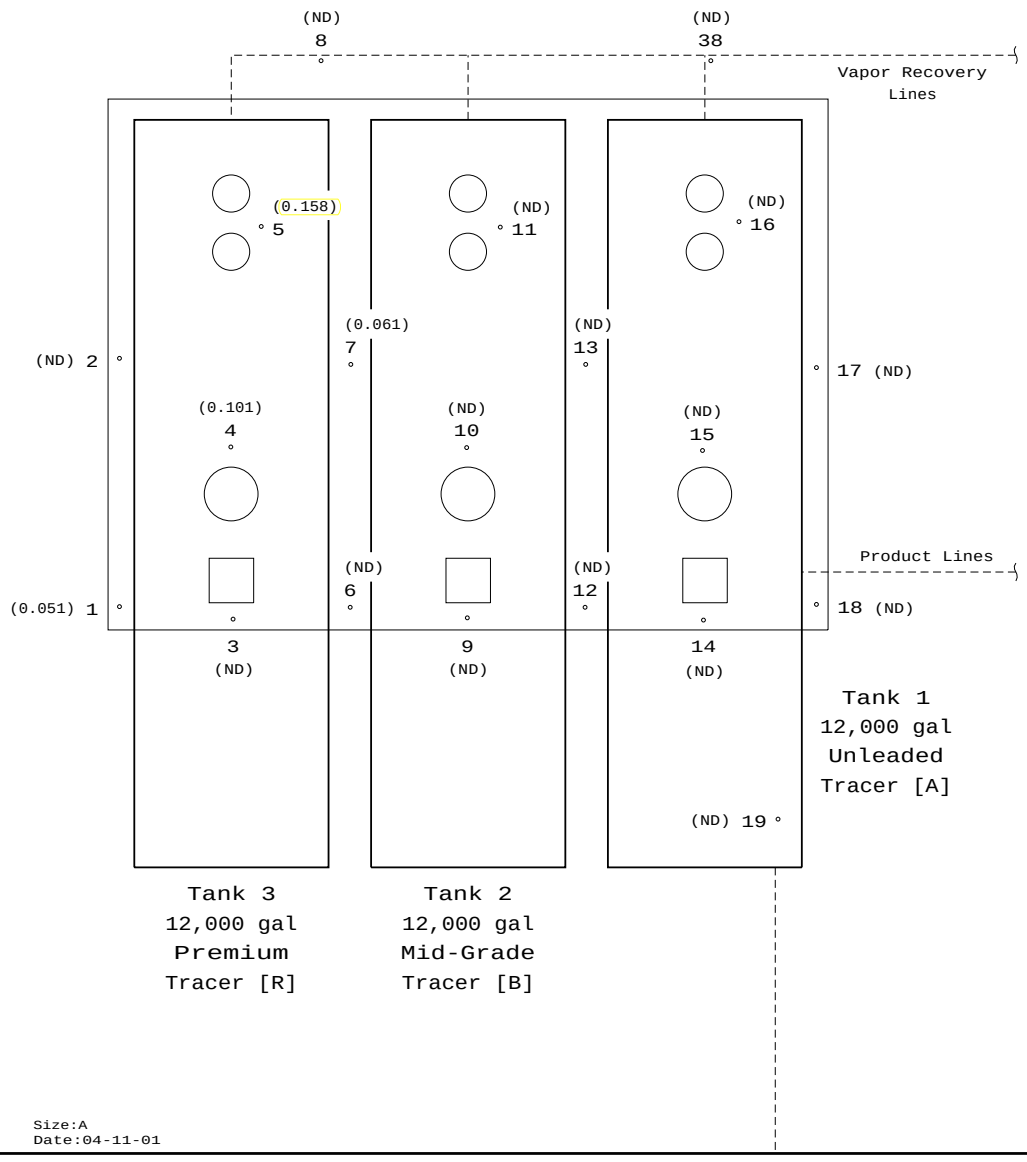
30665-000.U

Site SY 36

T r a c e r [B] D i s t r i b u t i o n

File:SY36-1B Size:A
Arc:3665SY36 Date:04-11-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.113)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

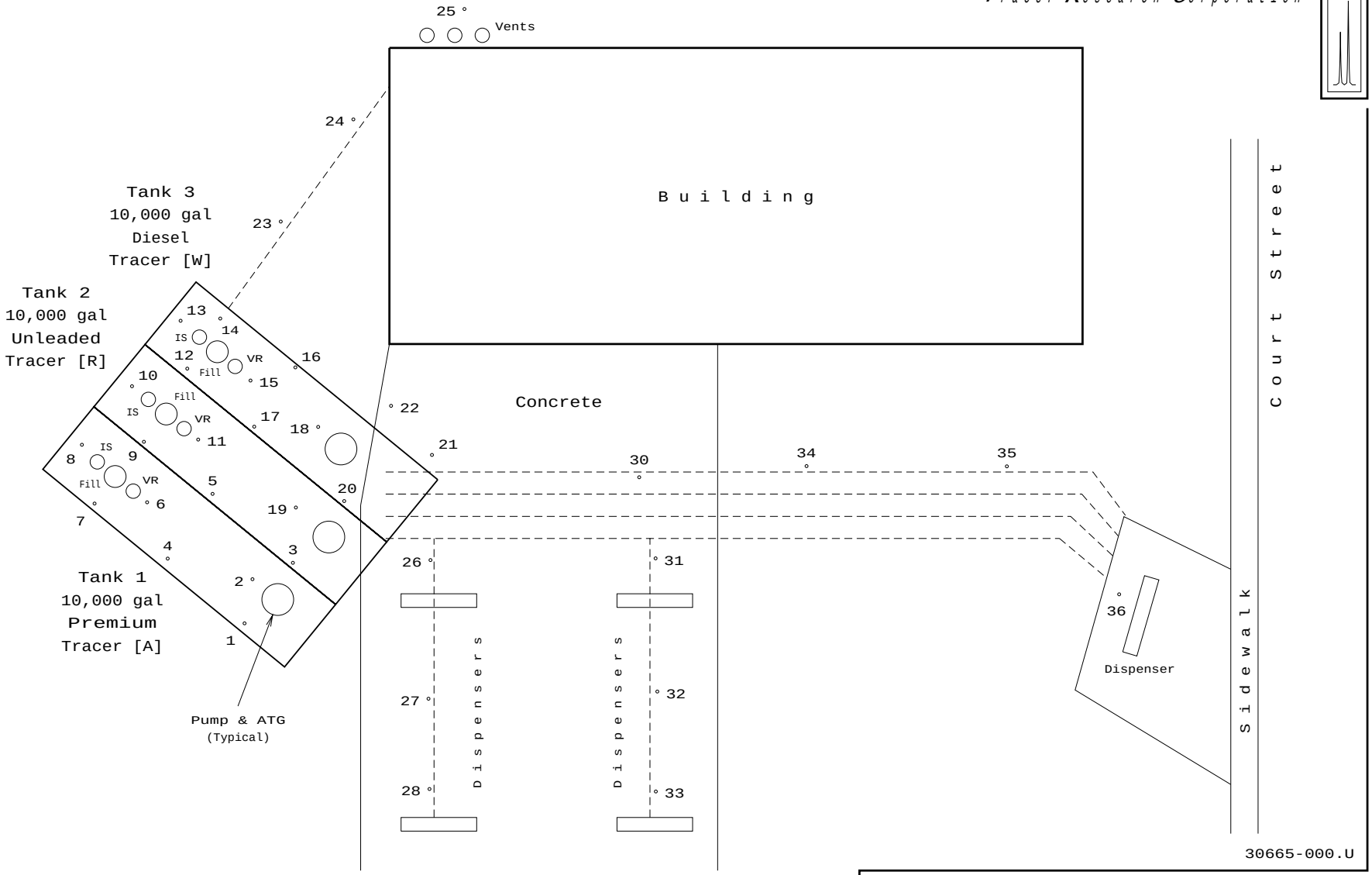
30665-000.U

Site SY 36

Tracer [R] Distribution

File:SY36-1C Size:A
Arc:3665SY36 Date:04-11-01

Tracer Research Corporation



N

0 15
feet

EXPLANATION

•1 Sampling Probe Location

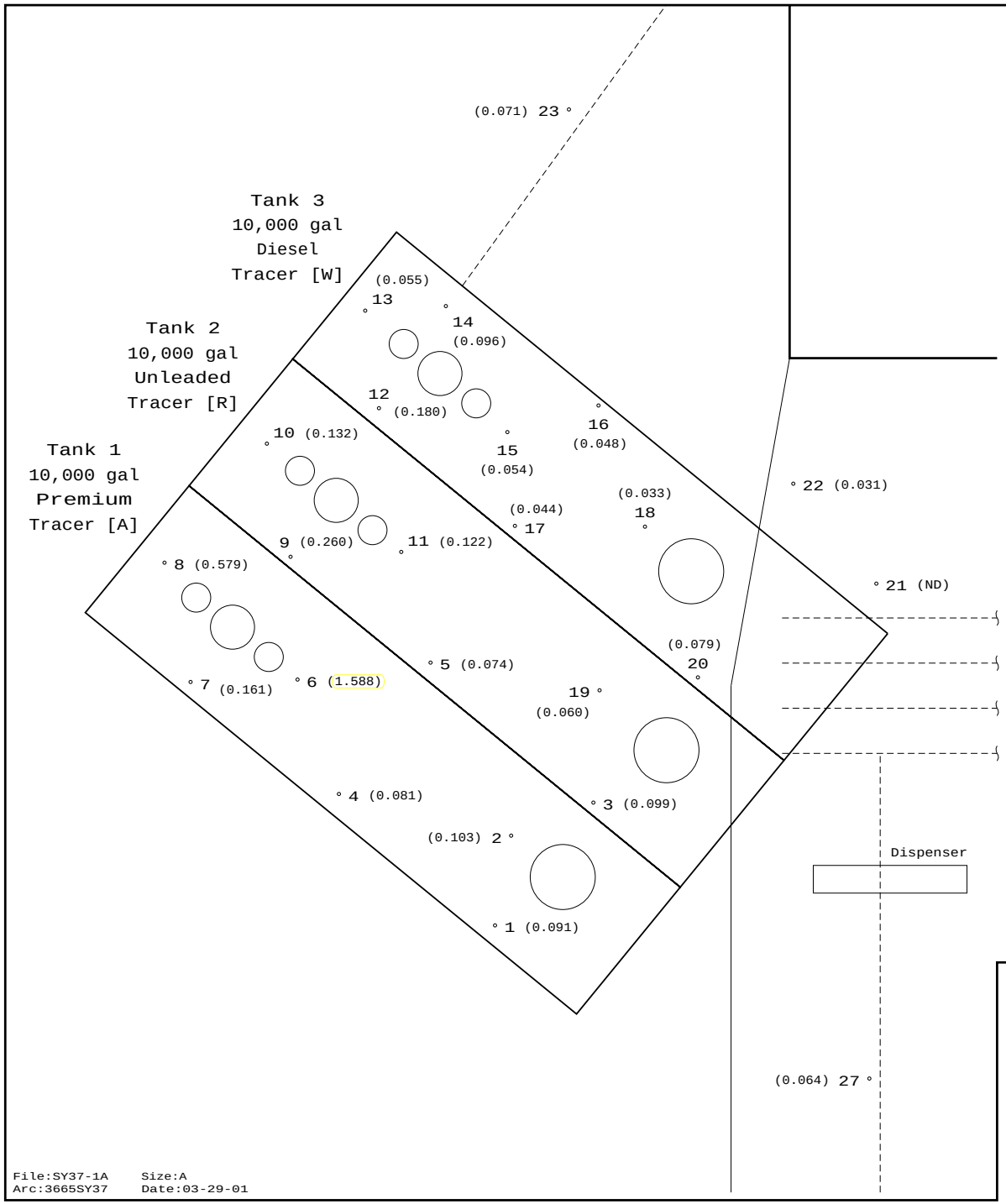
------ Approximate Pipeline Location

File:SY37-01 Size:A
Arc:3665SY37 Date:03-29-01

Site SY 37

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.091)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

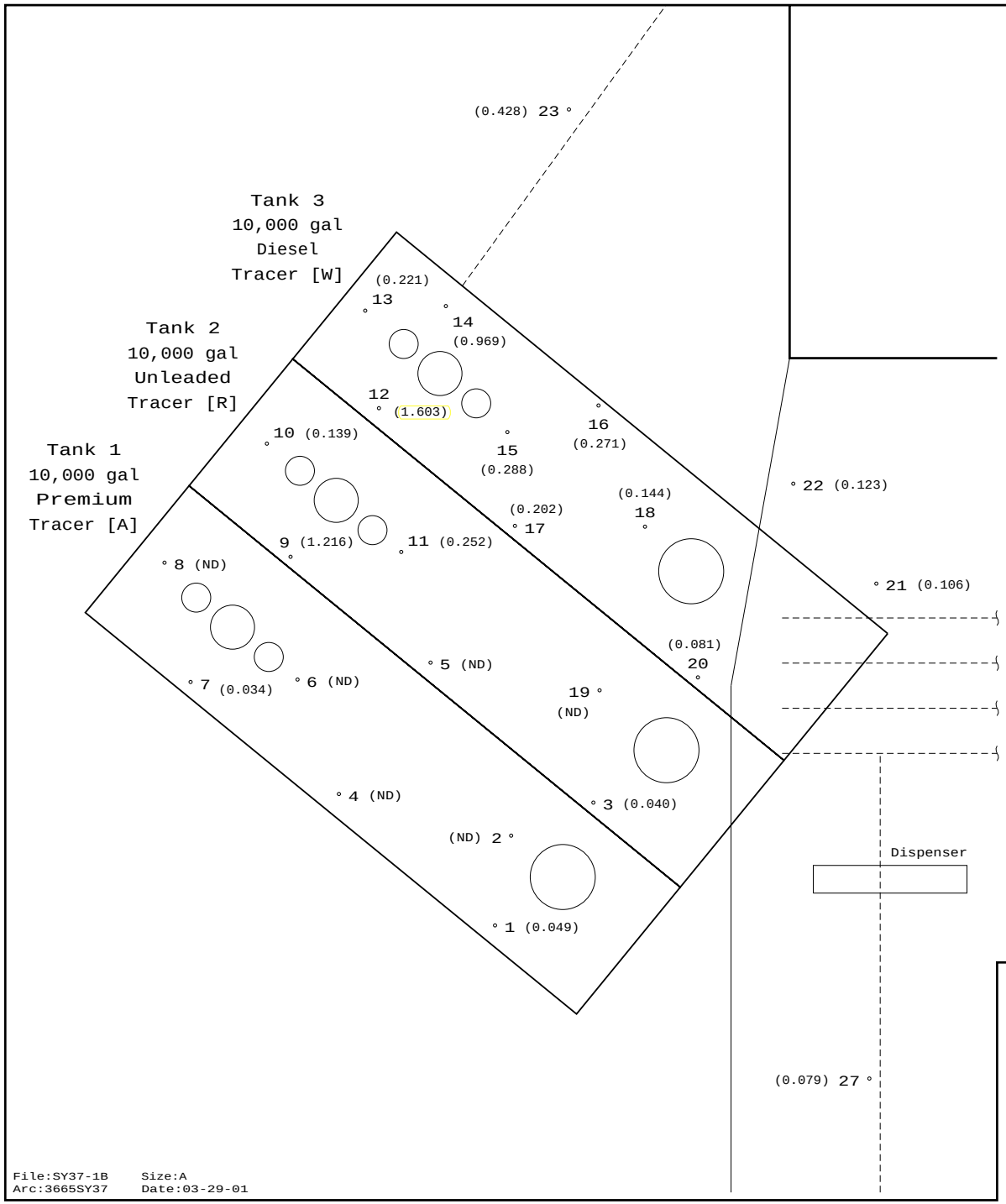
30665-000.U

Site SY 37

Tracer [A] Distribution

File:SY37-1A Size:A
Arc:3665SY37 Date:03-29-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.049)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

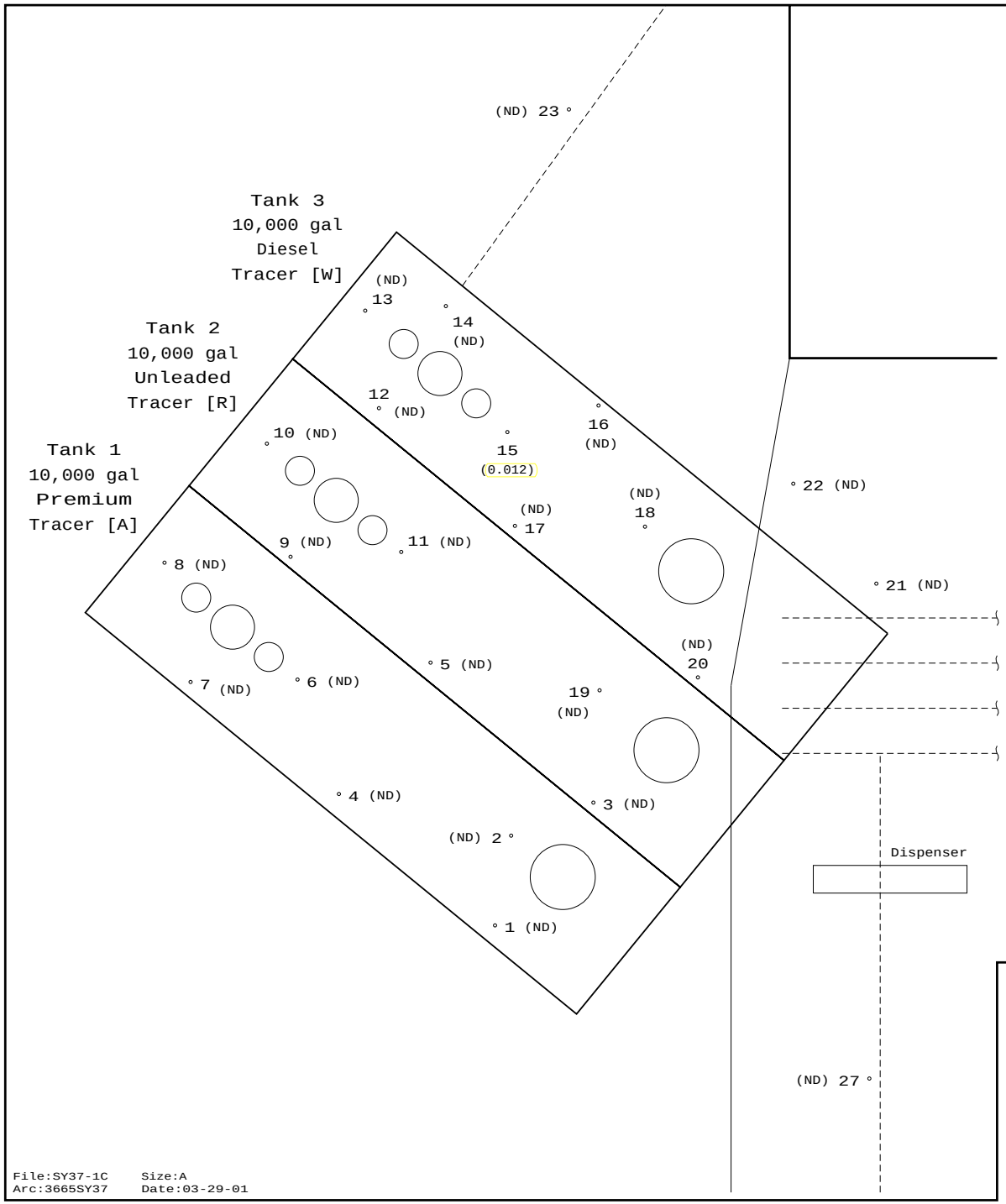
30665-000.U

Site SY 37

Tracer [R] Distribution

File:SY37-1B Size:A
Arc:3665SY37 Date:03-29-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.012)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

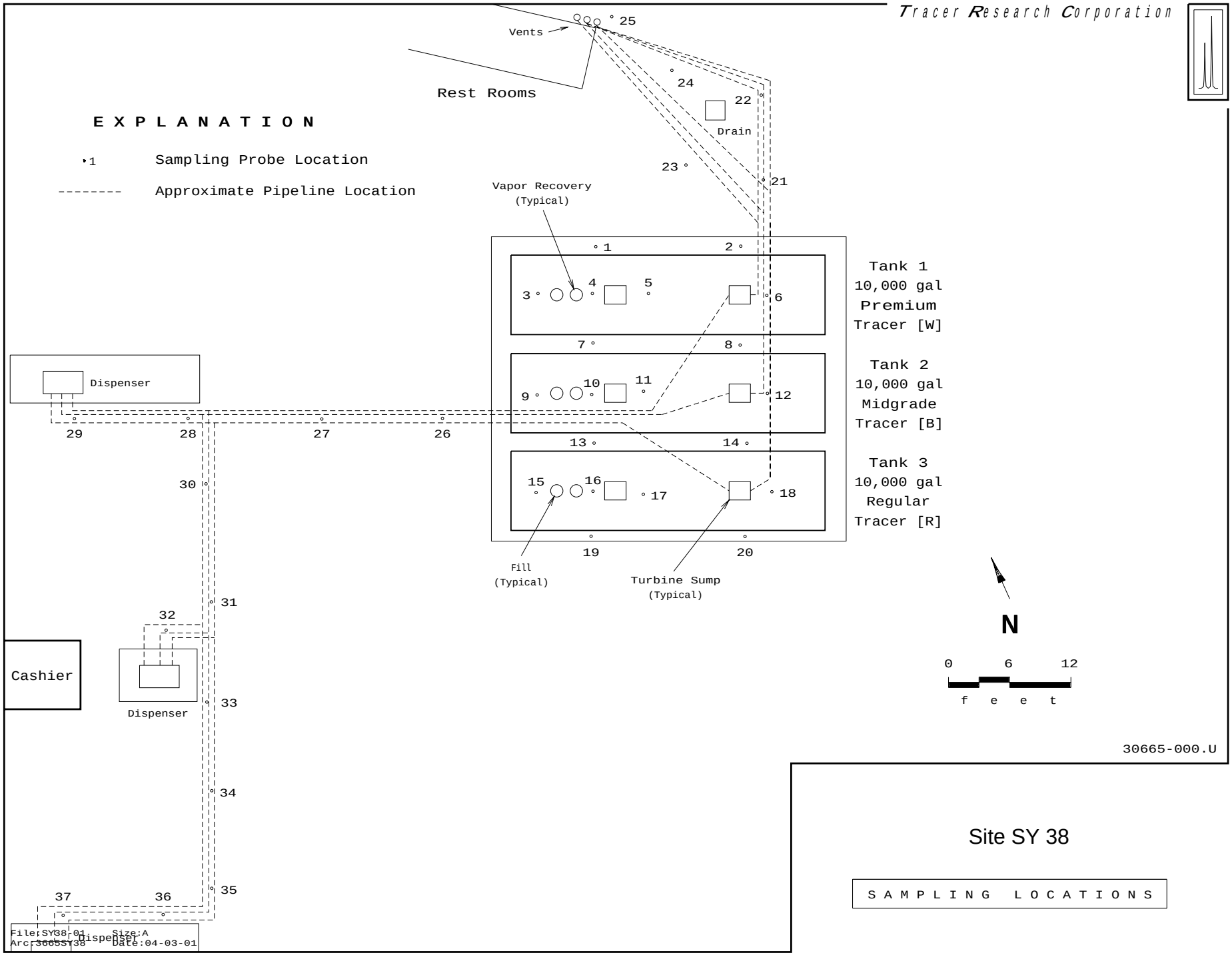
30665-000.U

Site SY 37

Tracer [W] Distribution

File:SY37-1C Size:A
Arc:3665SY37 Date:03-29-01

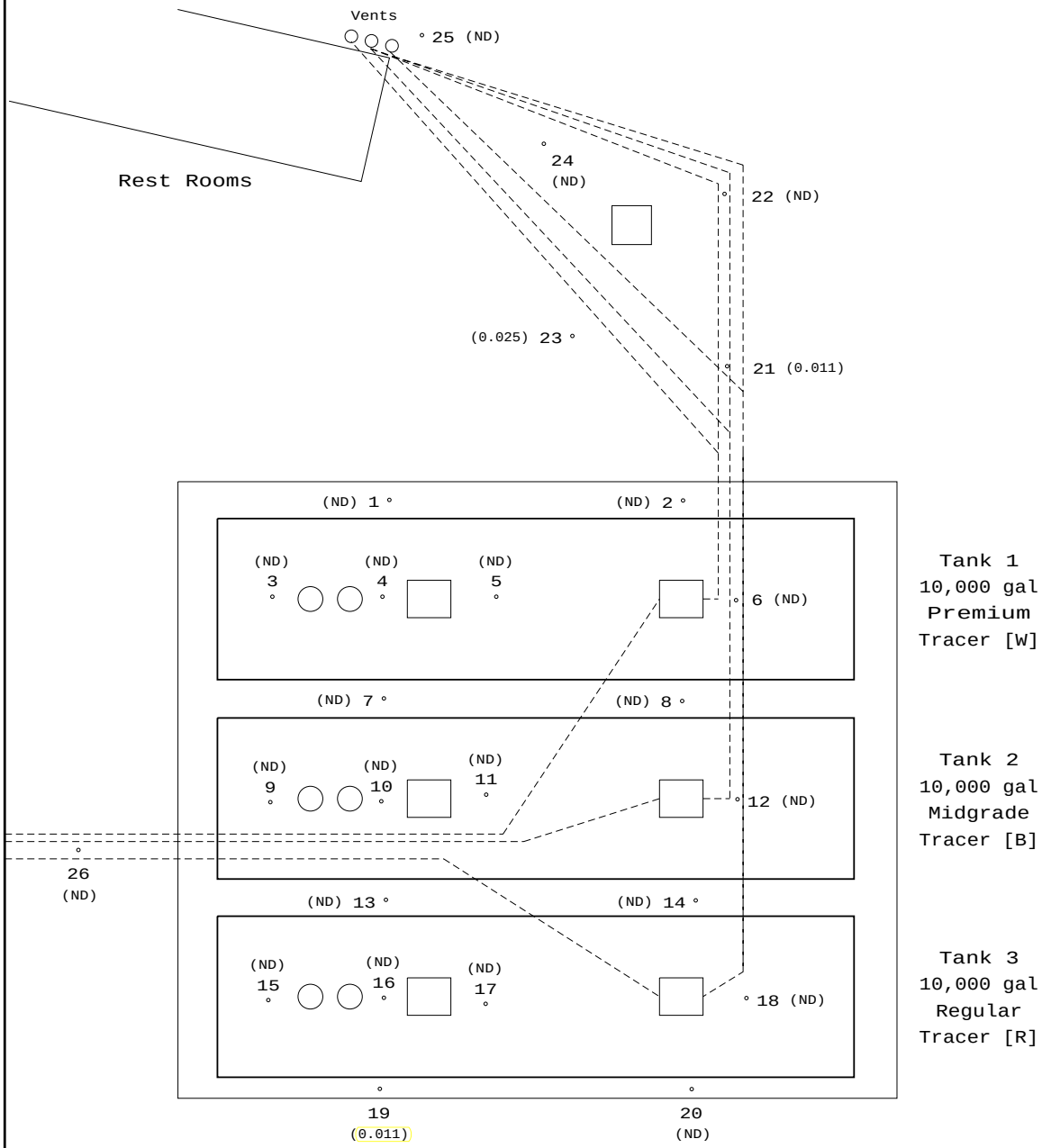
Tracer Research Corporation



Site SY 38

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.011)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

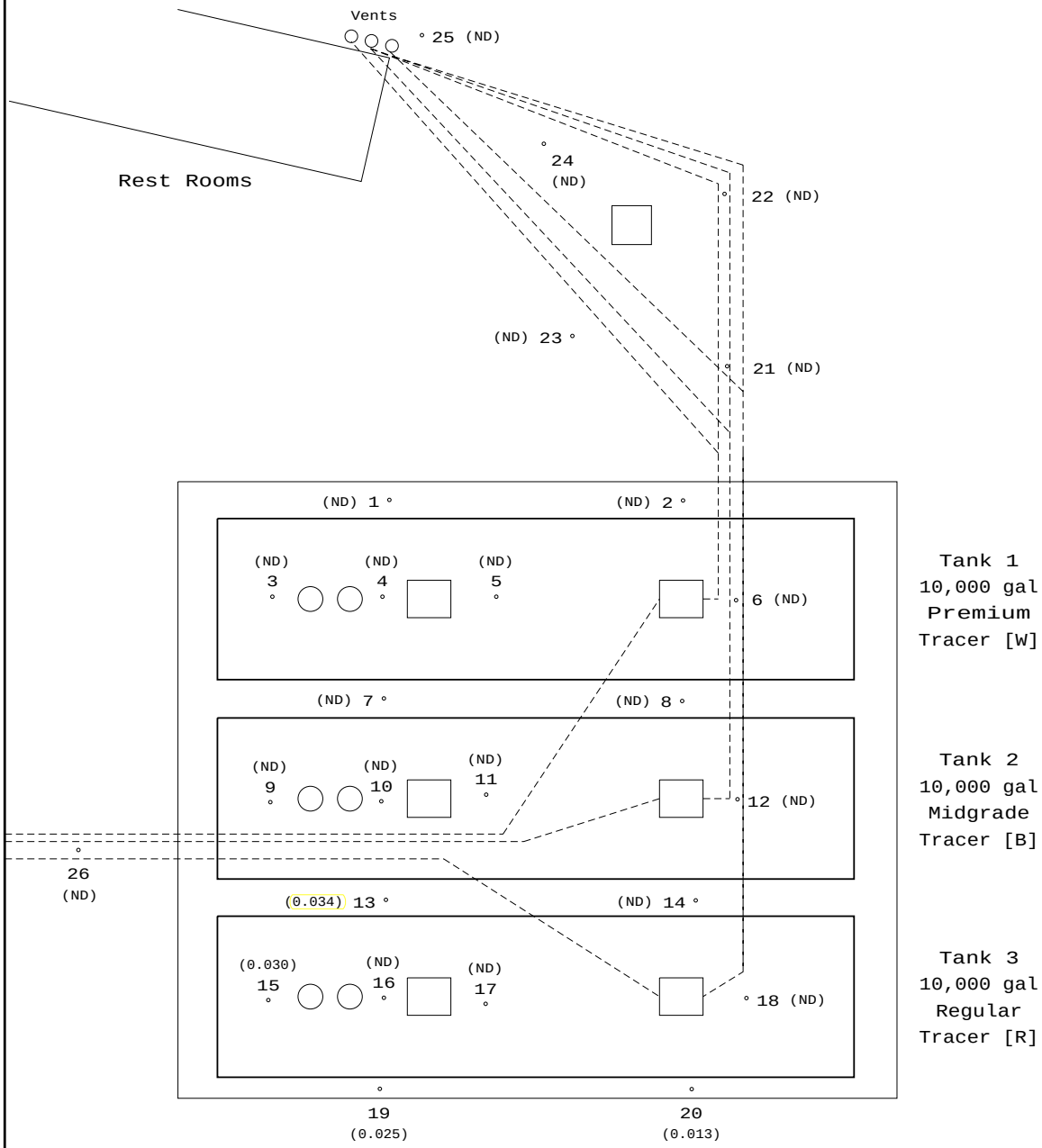
30665-000.U

Site SY 38

Tracer [B] Distribution

File:SY38-1A Size:A
Arc:3665SY38 Date:04-03-01

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.011)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

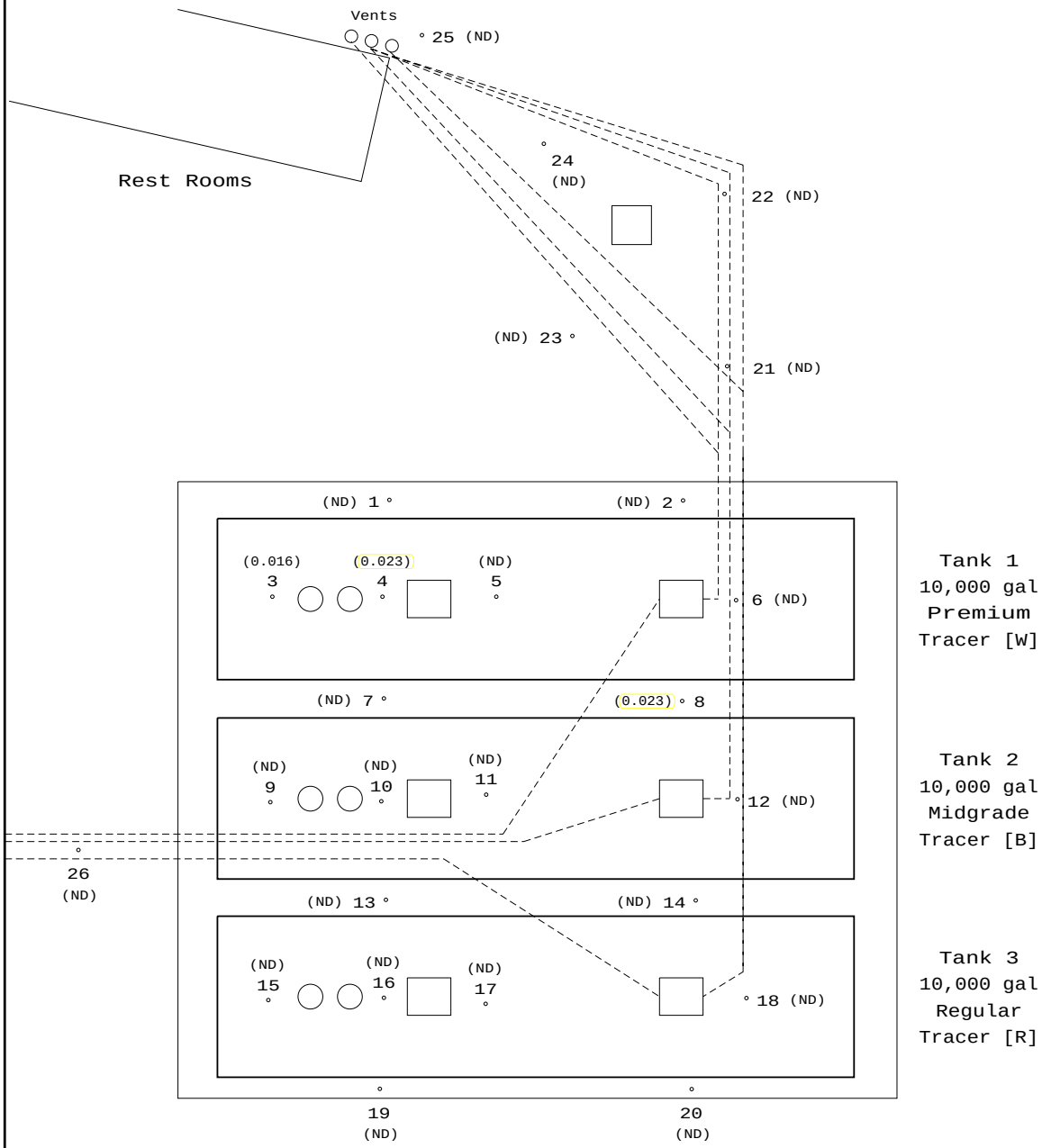
30665-000.U

Site SY 38

T r a c e r [R] D i s t r i b u t i o n

File:SY38-1B Size:A
Arc:3665SY38 Date:04-03-01

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.011)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

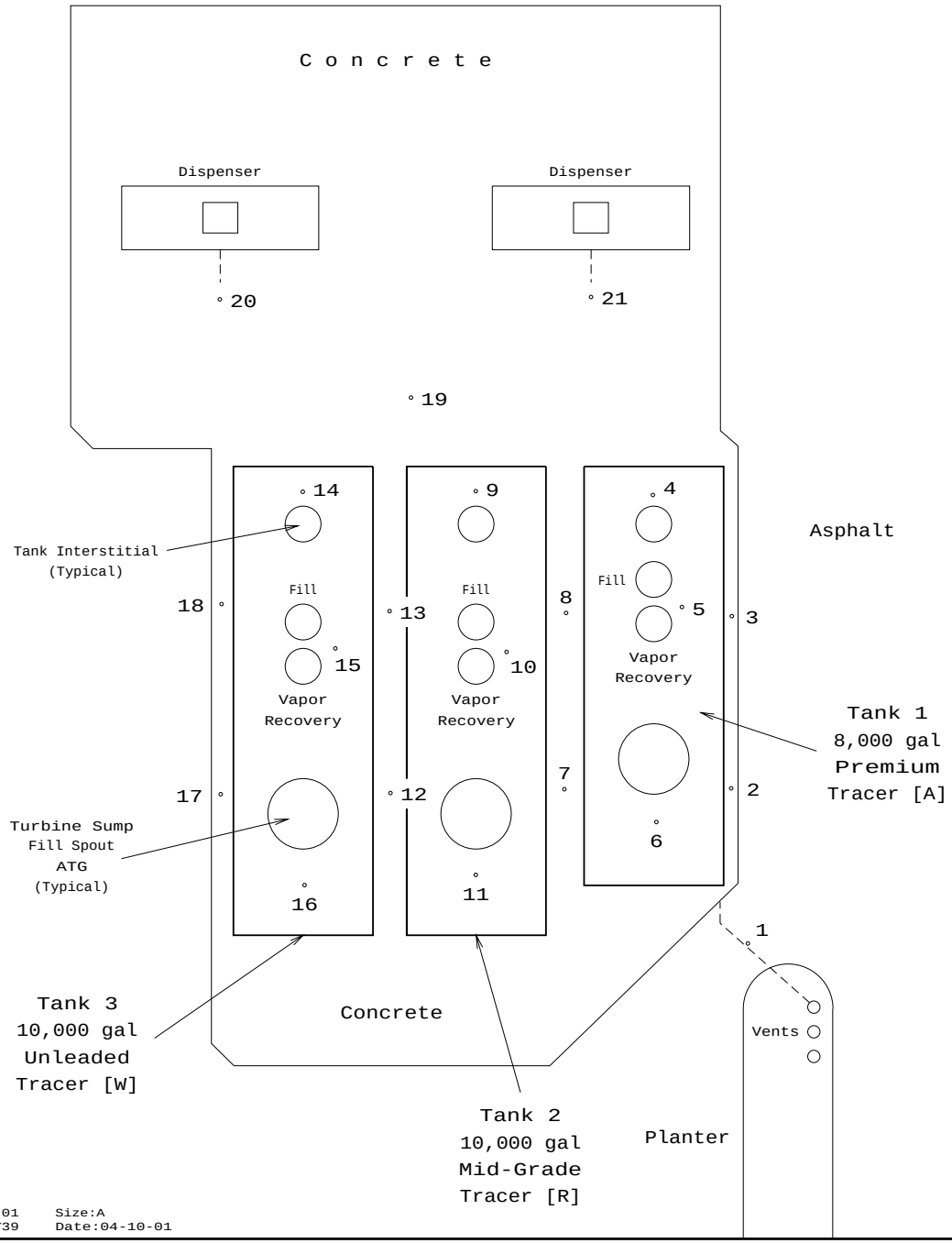
30665-000.U

Site SY 38

T r a c e r [W] D i s t r i b u t i o n

File:SY38-1C Size:A
Arc:3665SY38 Date:04-03-01

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

N

0 5 10

f e e t

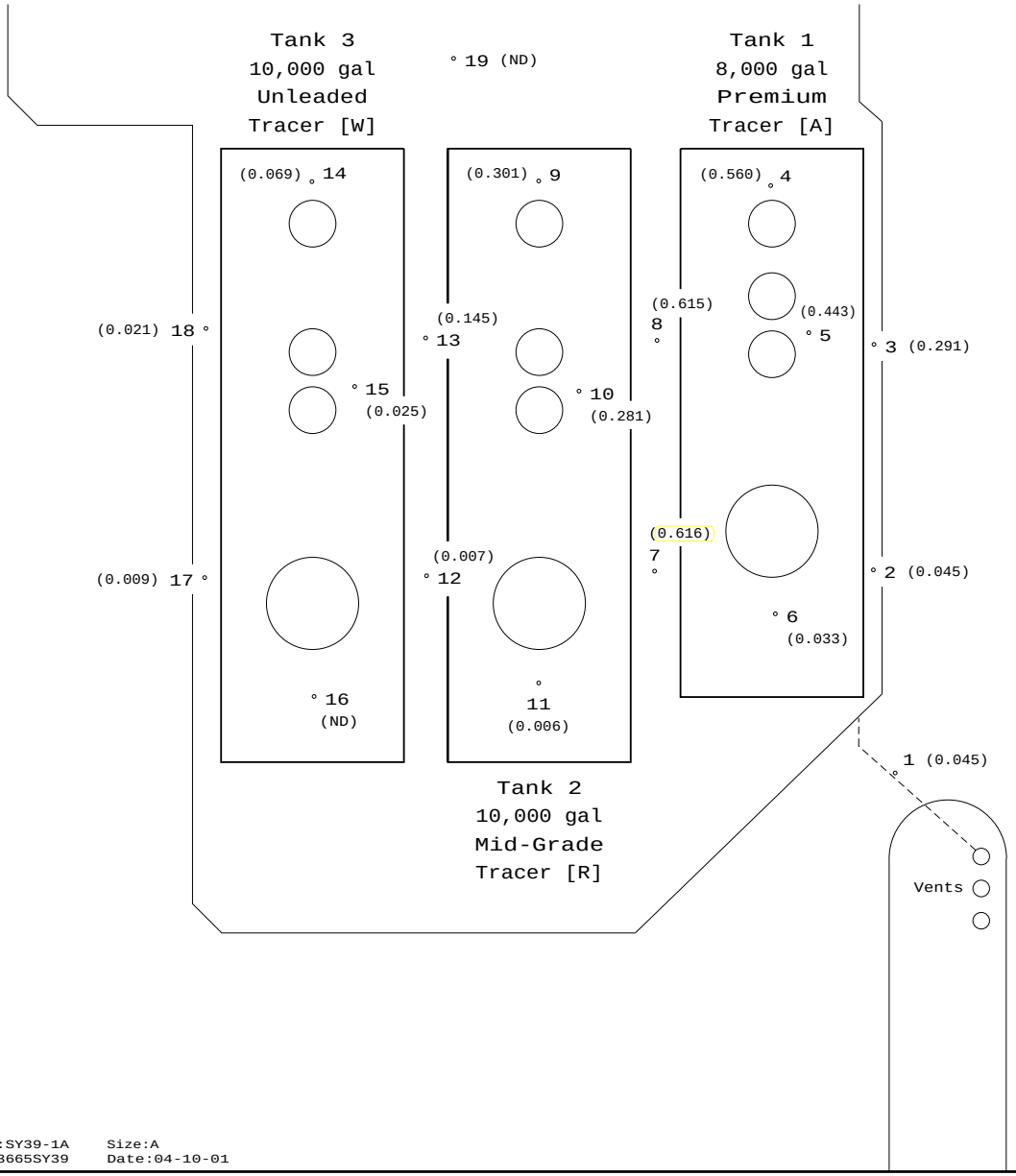
30665-000.U

File:SY39-01 Size:A
Arc:3665SY39 Date:04-10-01

Site SY 39

SAMPLING LOCATIONS

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.045)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

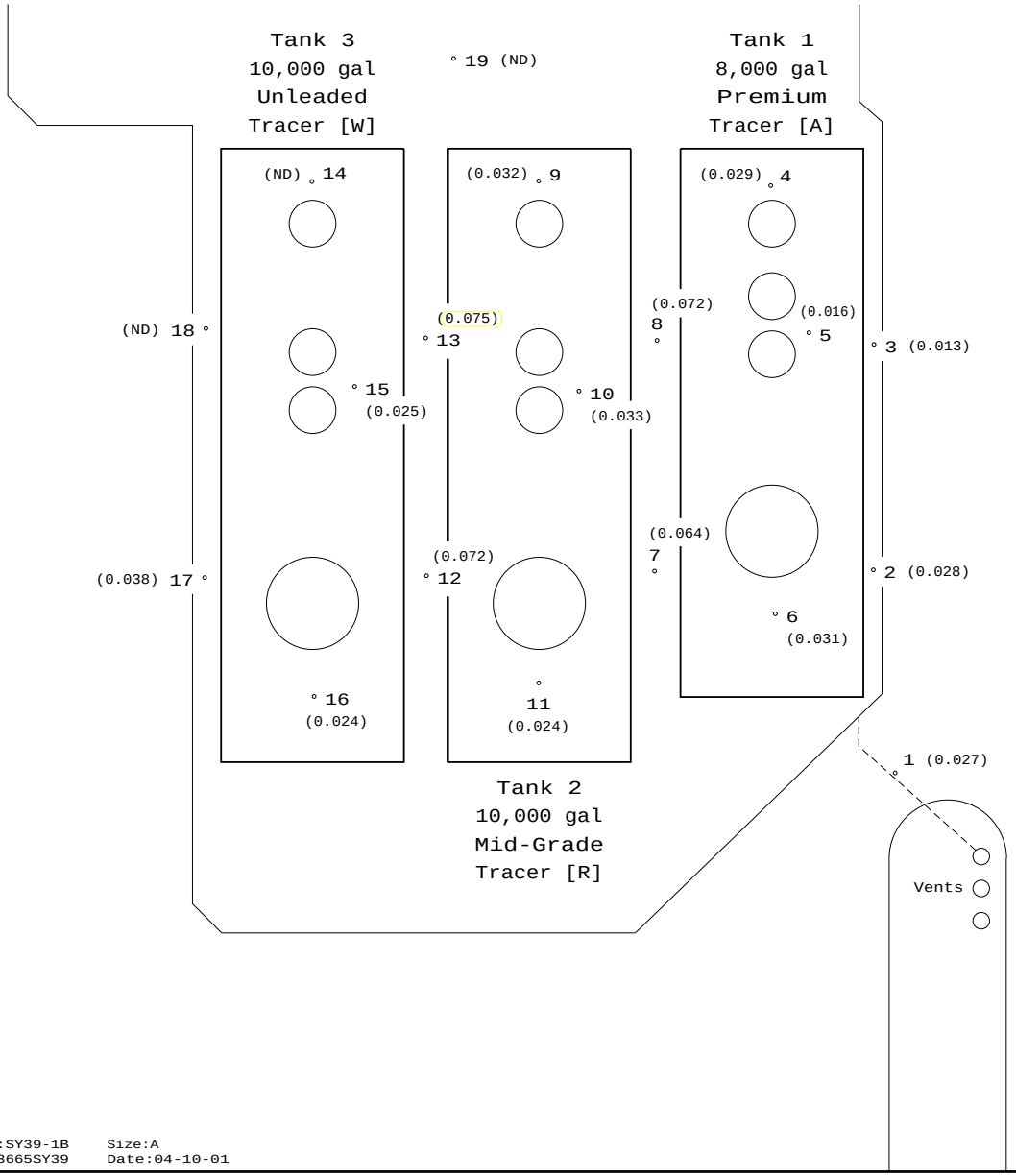
30665-000.U

Site SY 39

T r a c e r [A] D i s t r i b u t i o n

File:SY39-1A Size:A
Arc:3665SY39 Date:04-10-01

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.028)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

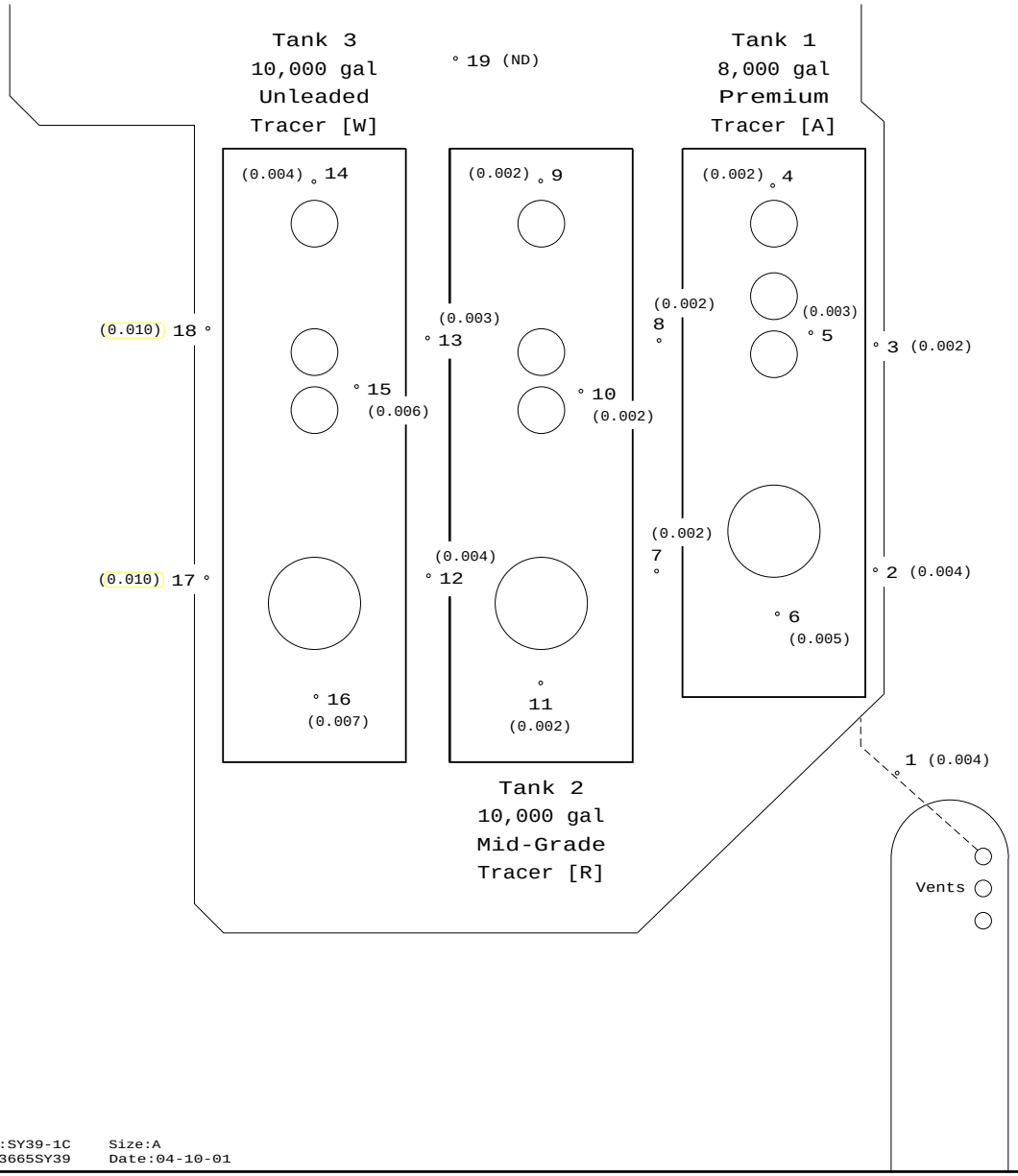
30665-000.U

Site SY 39

T r a c e r [R] D i s t r i b u t i o n

File:SY39-1B Size:A
Arc:3665SY39 Date:04-10-01

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.028)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

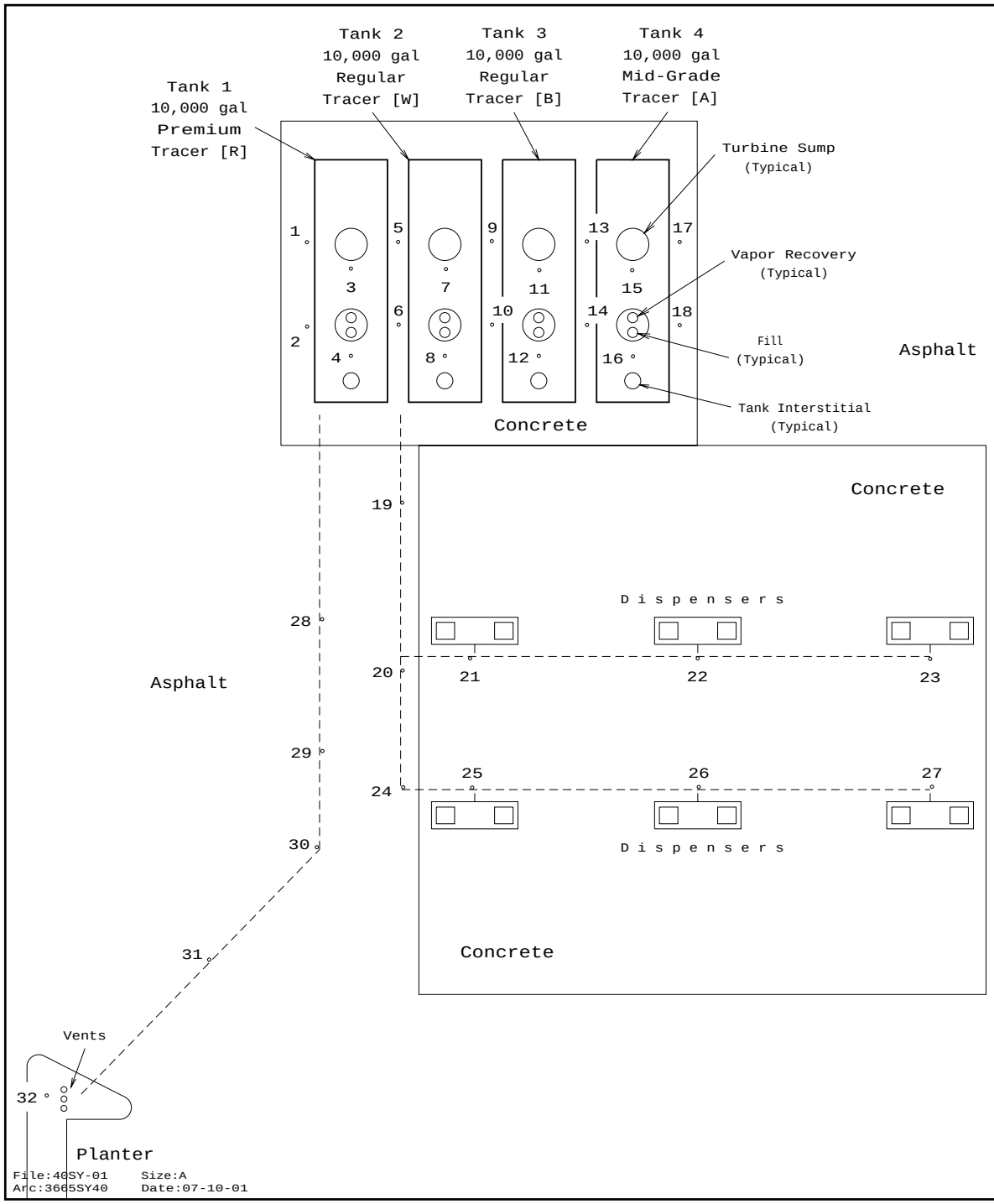
30665-000.U

Site SY 39

T r a c e r [W] D i s t r i b u t i o n

File:SY39-1C Size:A
Arc:3665SY39 Date:04-10-01

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

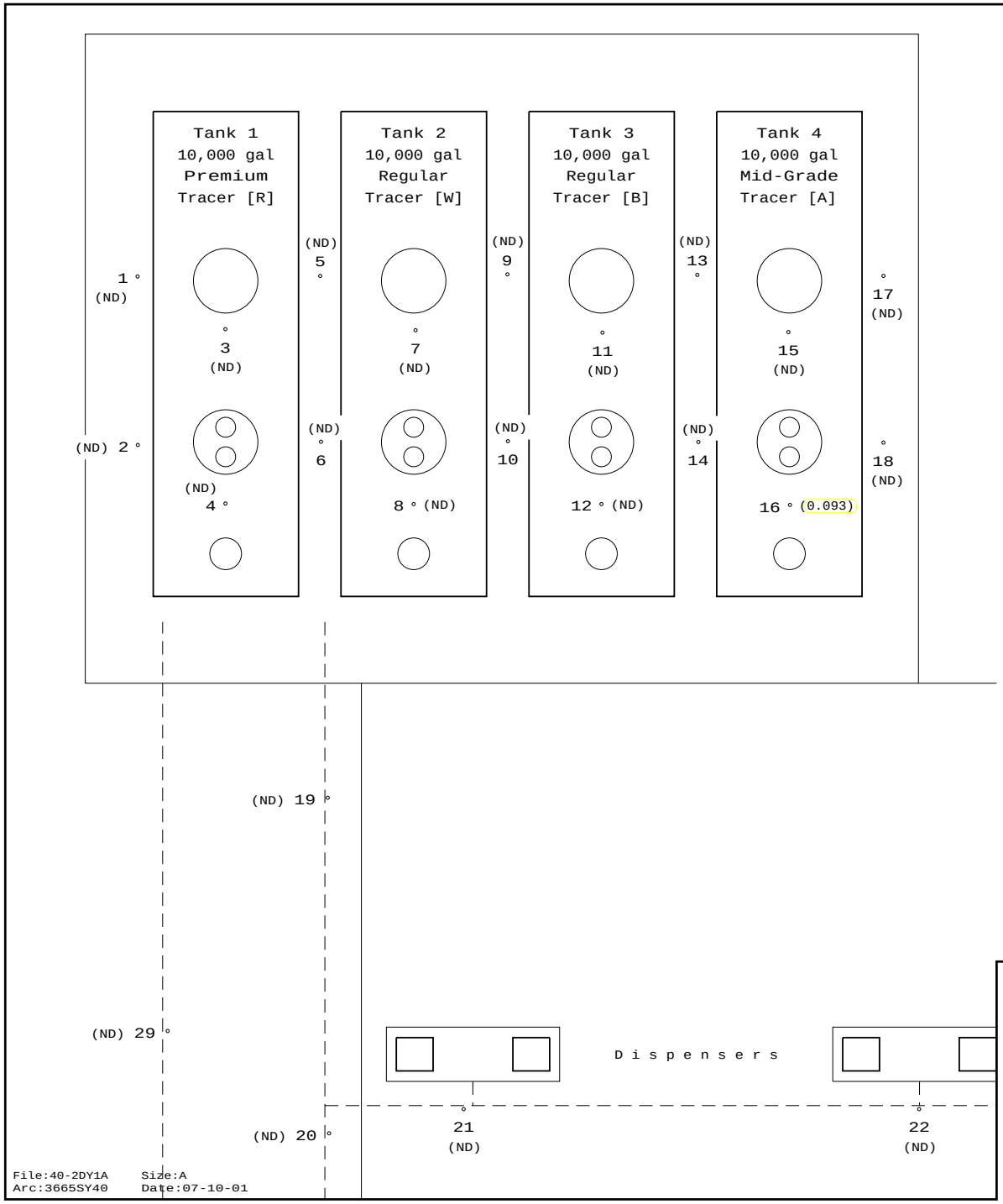
30665-000.U

File:40SY-01 Size:A
Arc:3665SY40 Date:07-10-01

Site SY 40

SAMPLING LOCATIONS

Tracer Research Corporation



File:40-2DY1A Size:A
Arc:3665SY40 Date:07-10-01

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.093)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect

N

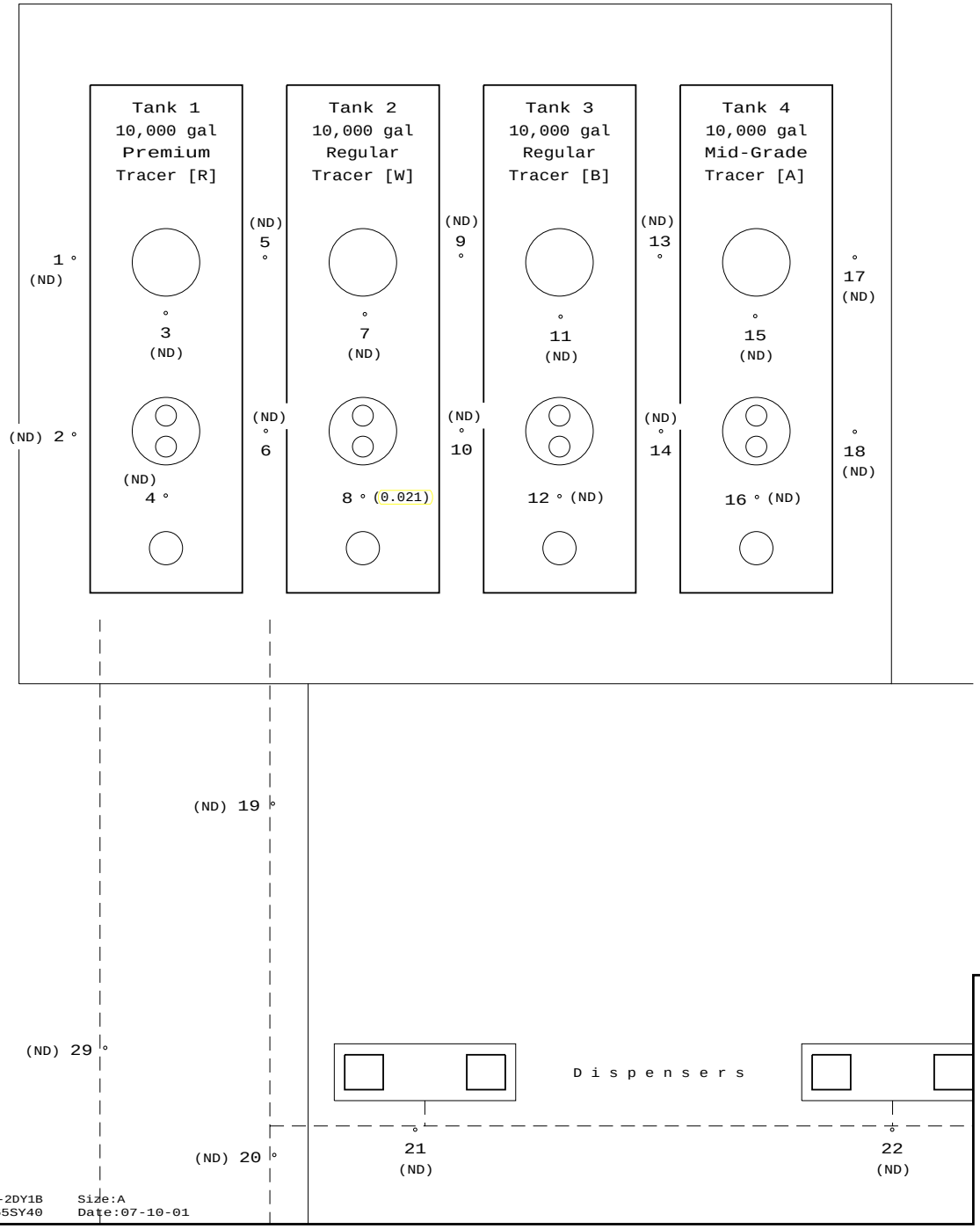
0 4 8
feet

30665-000.U

Site SY 40

Tracer [A] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.093)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

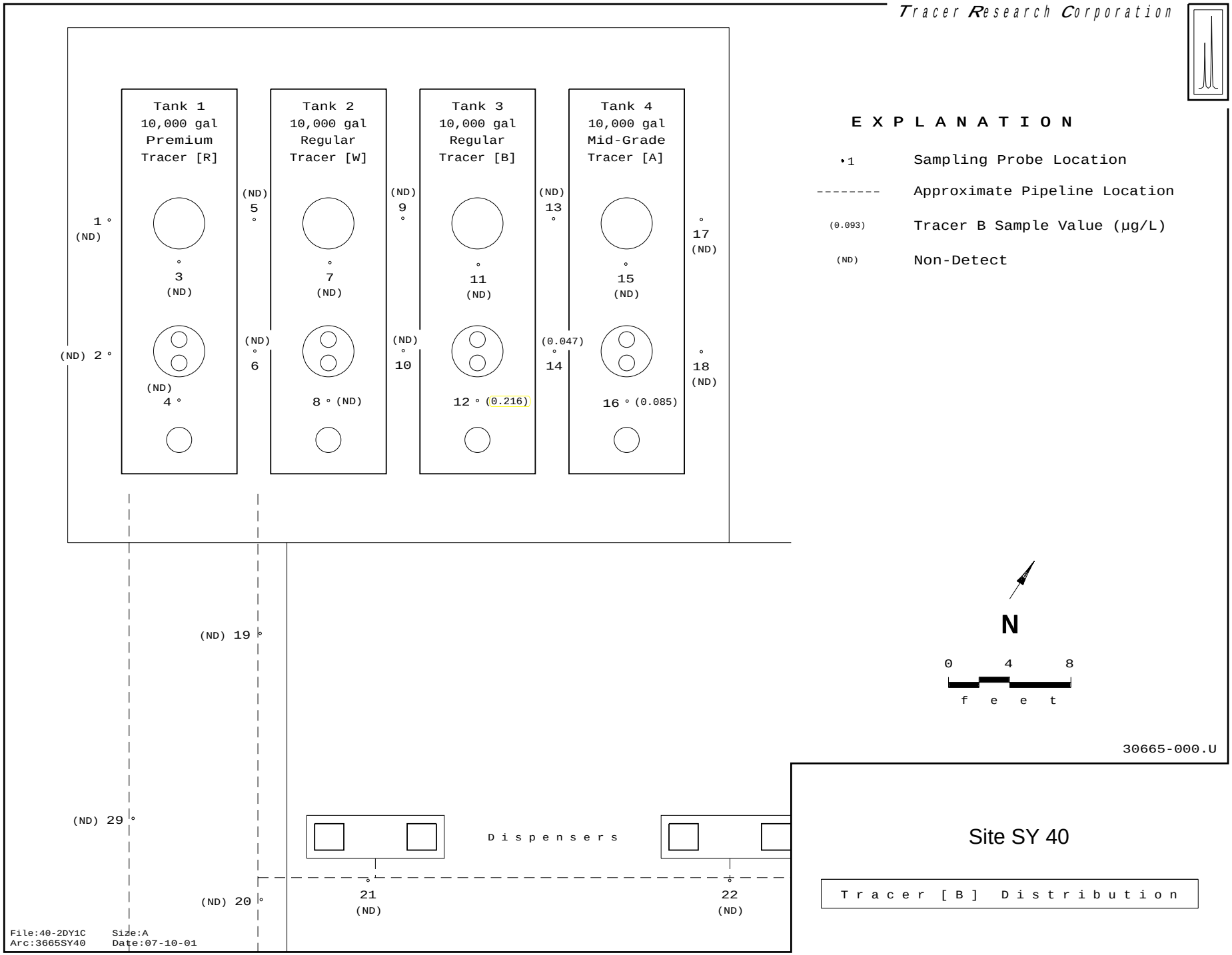
30665-000.U

File:40-2DY1B Size:A
Arc:3665SY40 Date:07-10-01

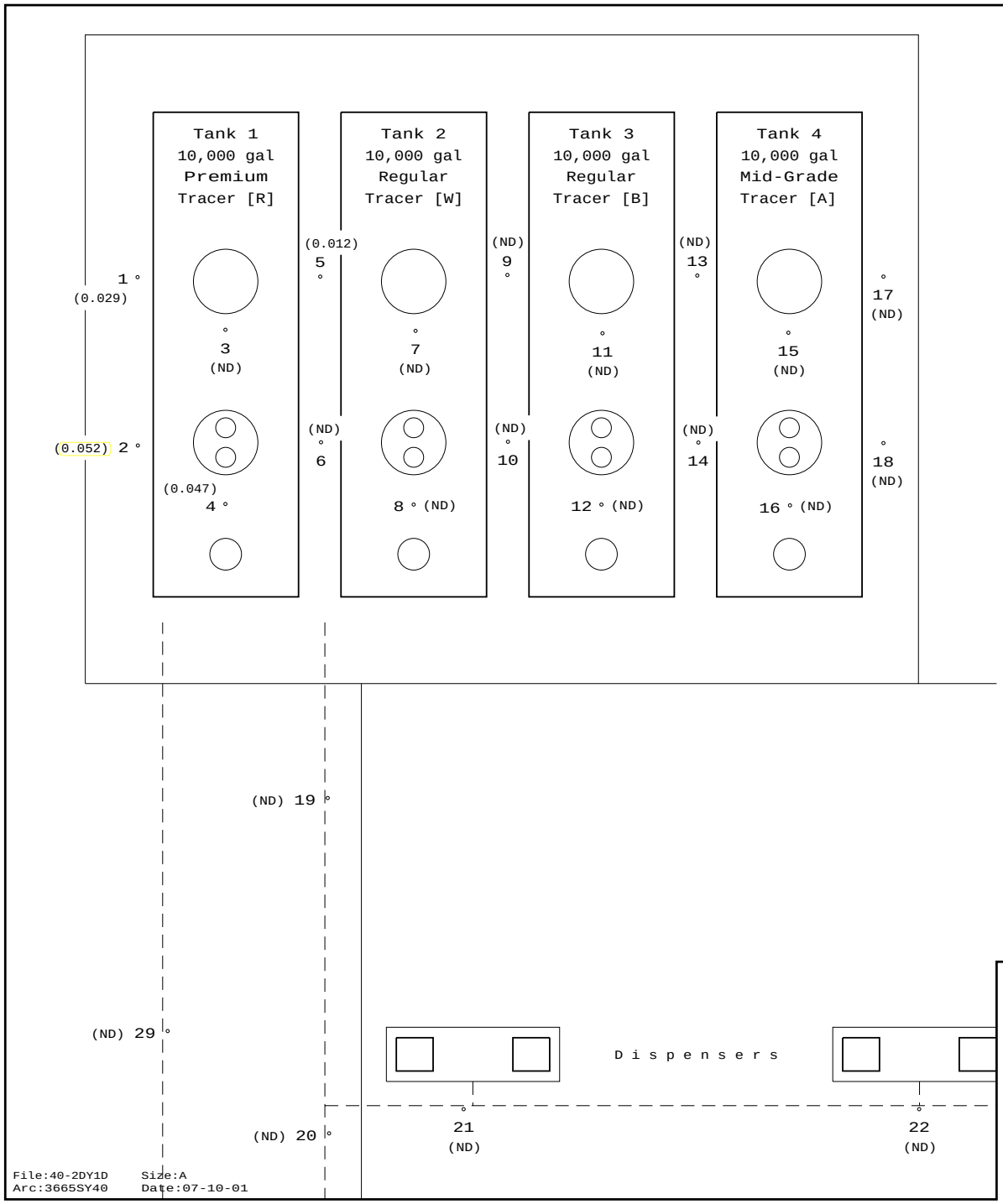
Site SY 40

Tracer [W] Distribution

Tracer Research Corporation



Tracer Research Corporation



File:40-2DY1D Size:A
Arc:3665SY40 Date:07-10-01

EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.093)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

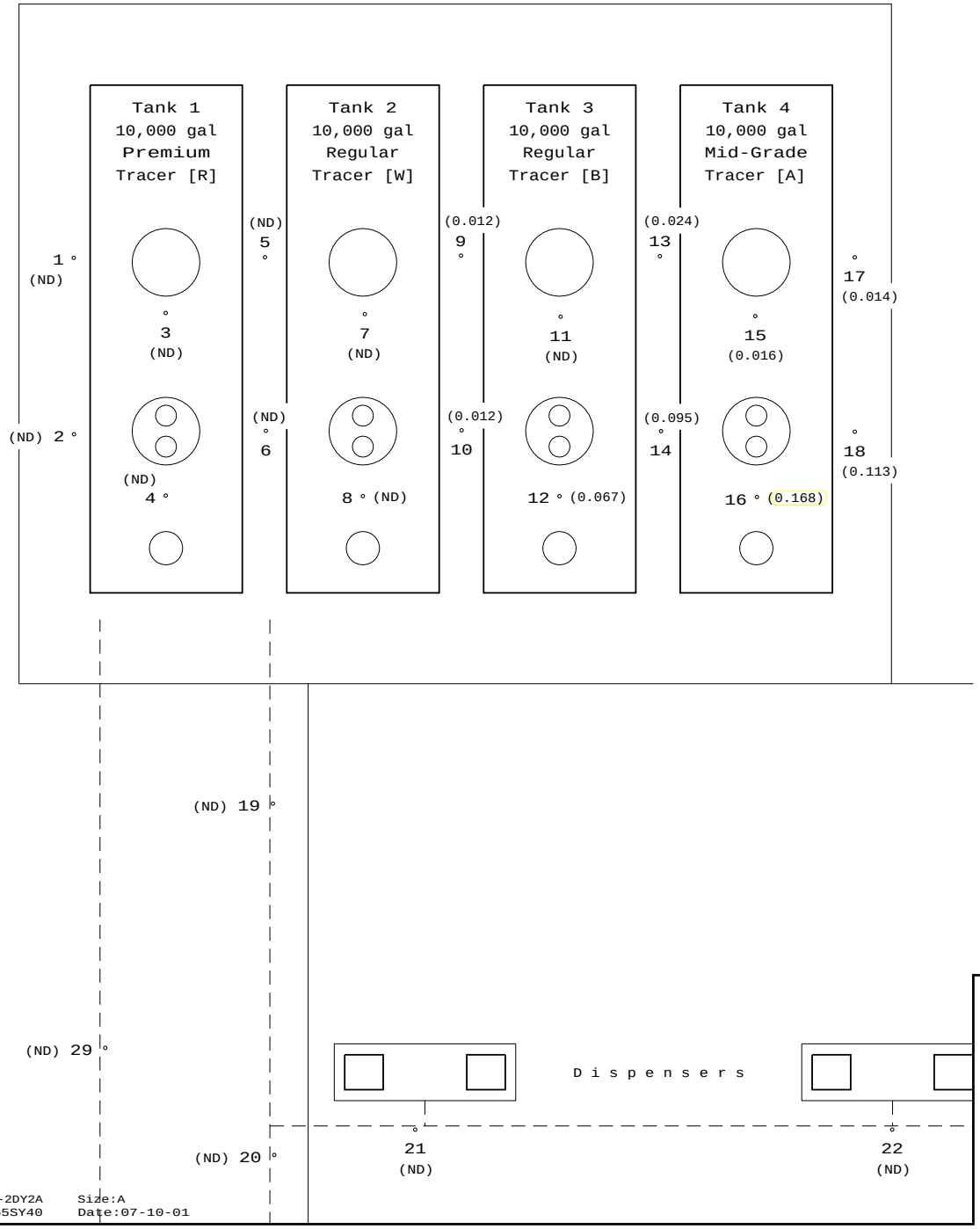
0 4 8
feet

30665-000.U

Site SY 40

Tracer [R] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.093)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

feet

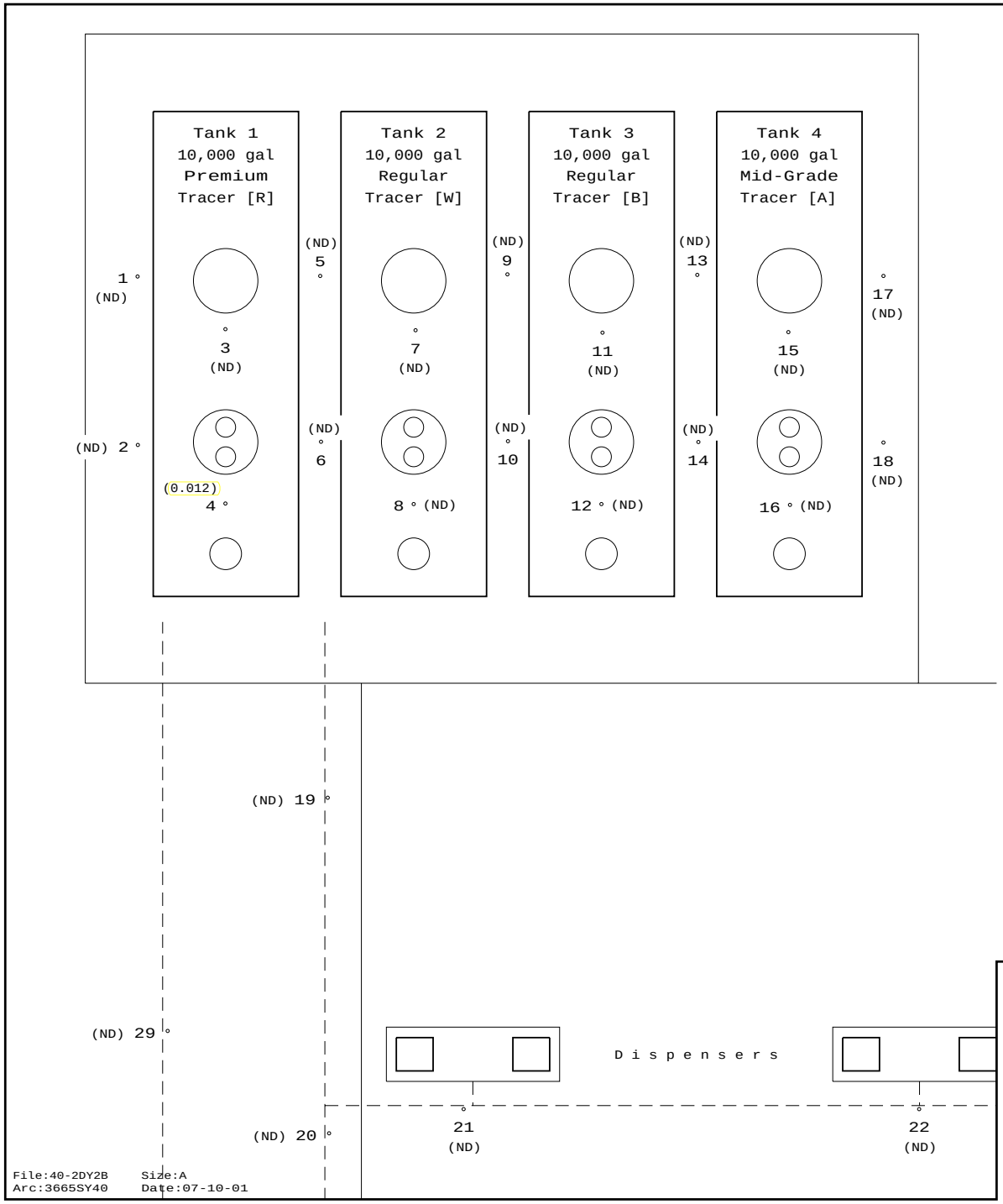
30665-000.U

File:40-2DY2A Size:A
Arc:3665SY40 Date:07-10-01

Site SY 40

Tracer [A] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.093)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

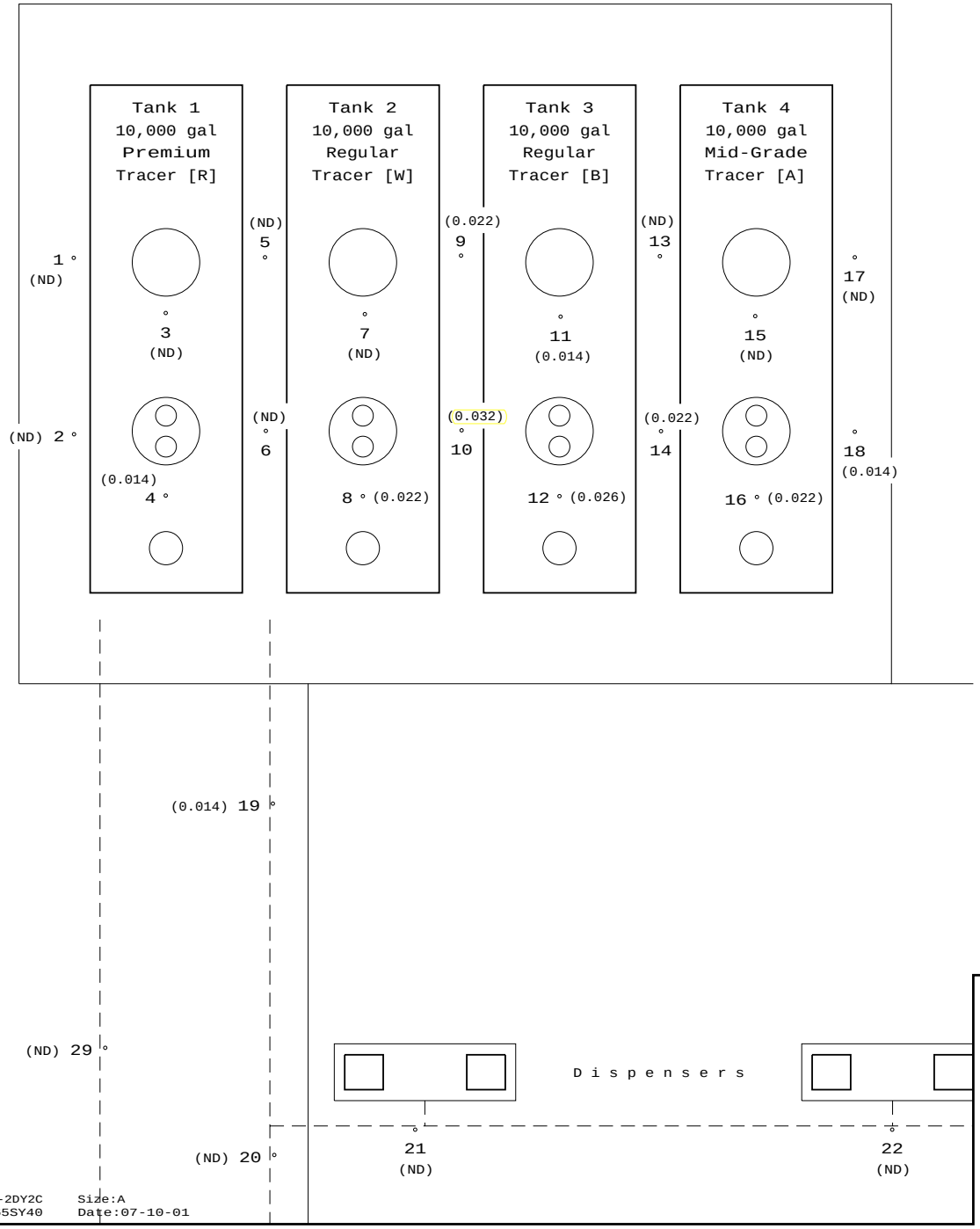
30665-000.U

File:40-2DY2B Size:A
Arc:3665SY40 Date:07-10-01

Site SY 40

Tracer [W] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.093)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

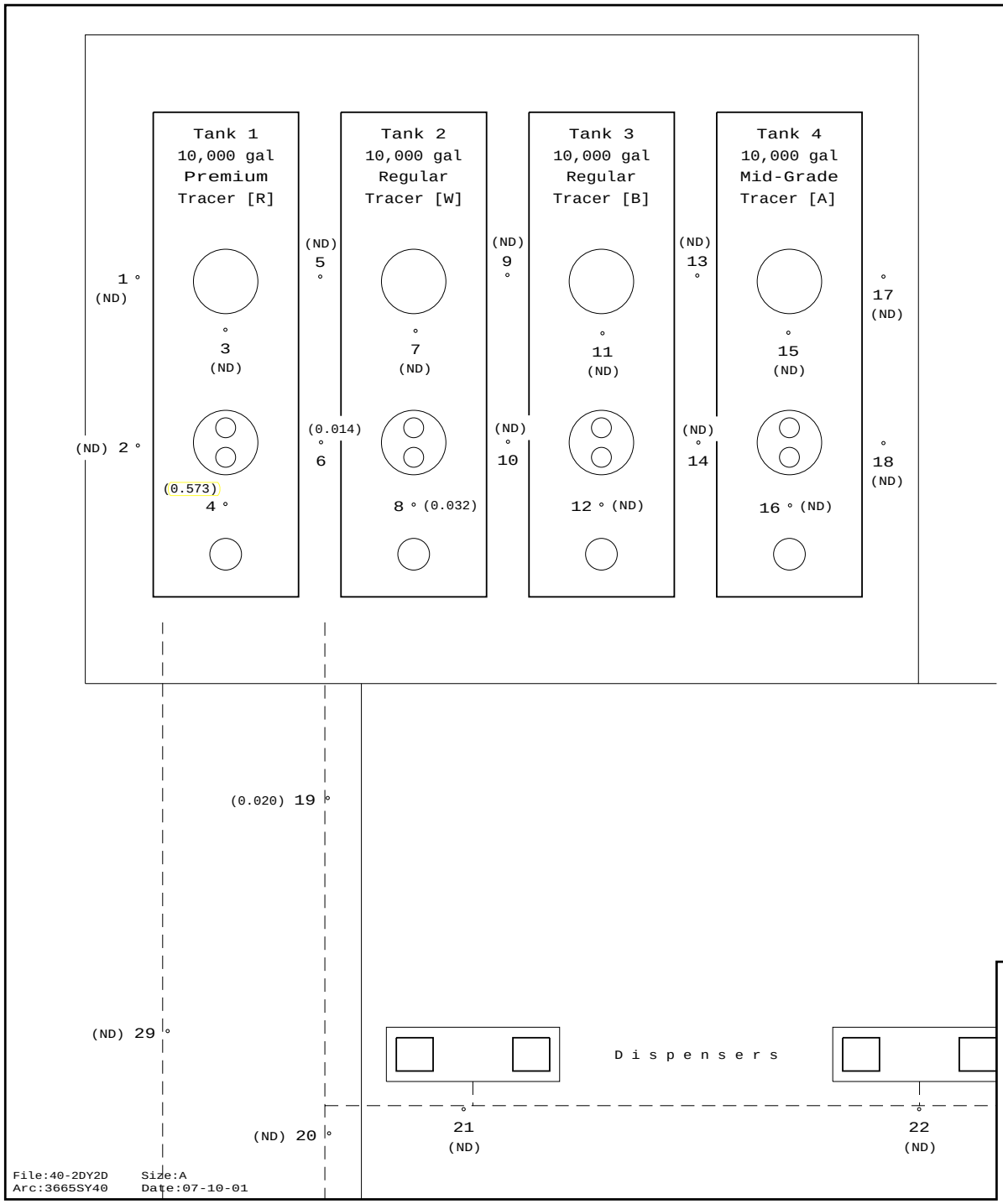
30665-000.U

File:40-2DY2C Size:A
Arc:3665SY40 Date:07-10-01

Site SY 40

Tracer [B] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.093)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

feet

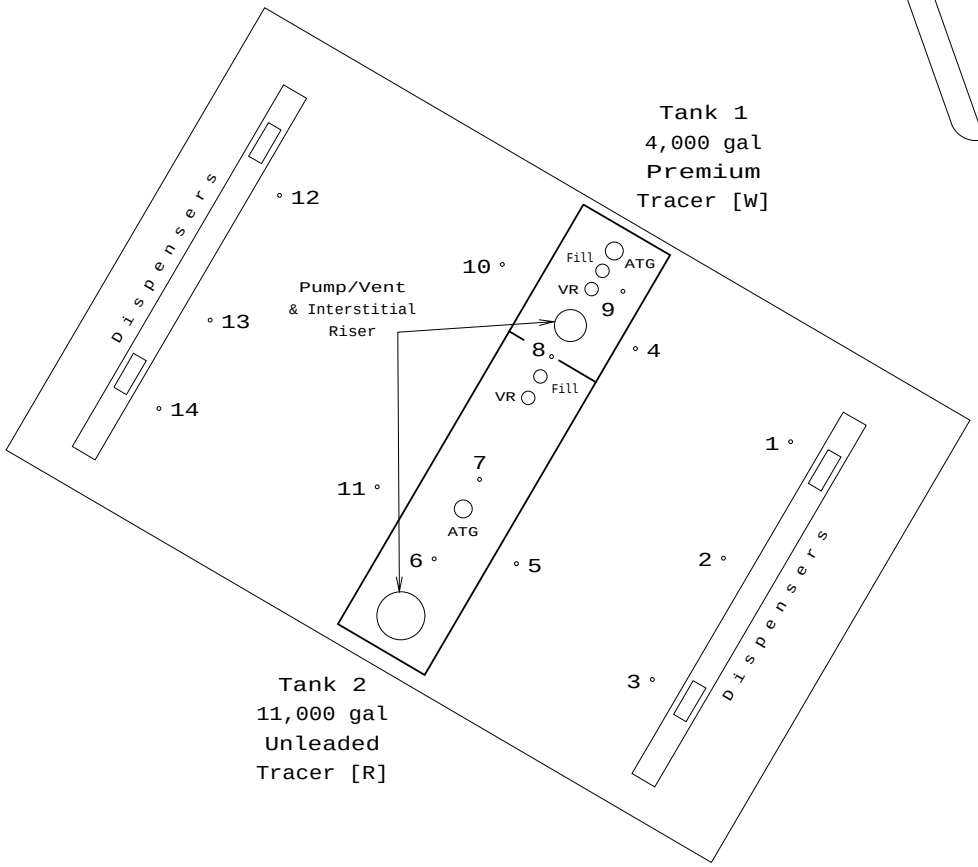
30665-000.U

File:40-2DY2D Size:A
Arc:3665SY40 Date:07-10-01

Site SY 40

Tracer [R] Distribution

Tracer Research Corporation



30665-000.U

N

0 5 10
feet

EXPLANATION

•1 Sampling Probe Location

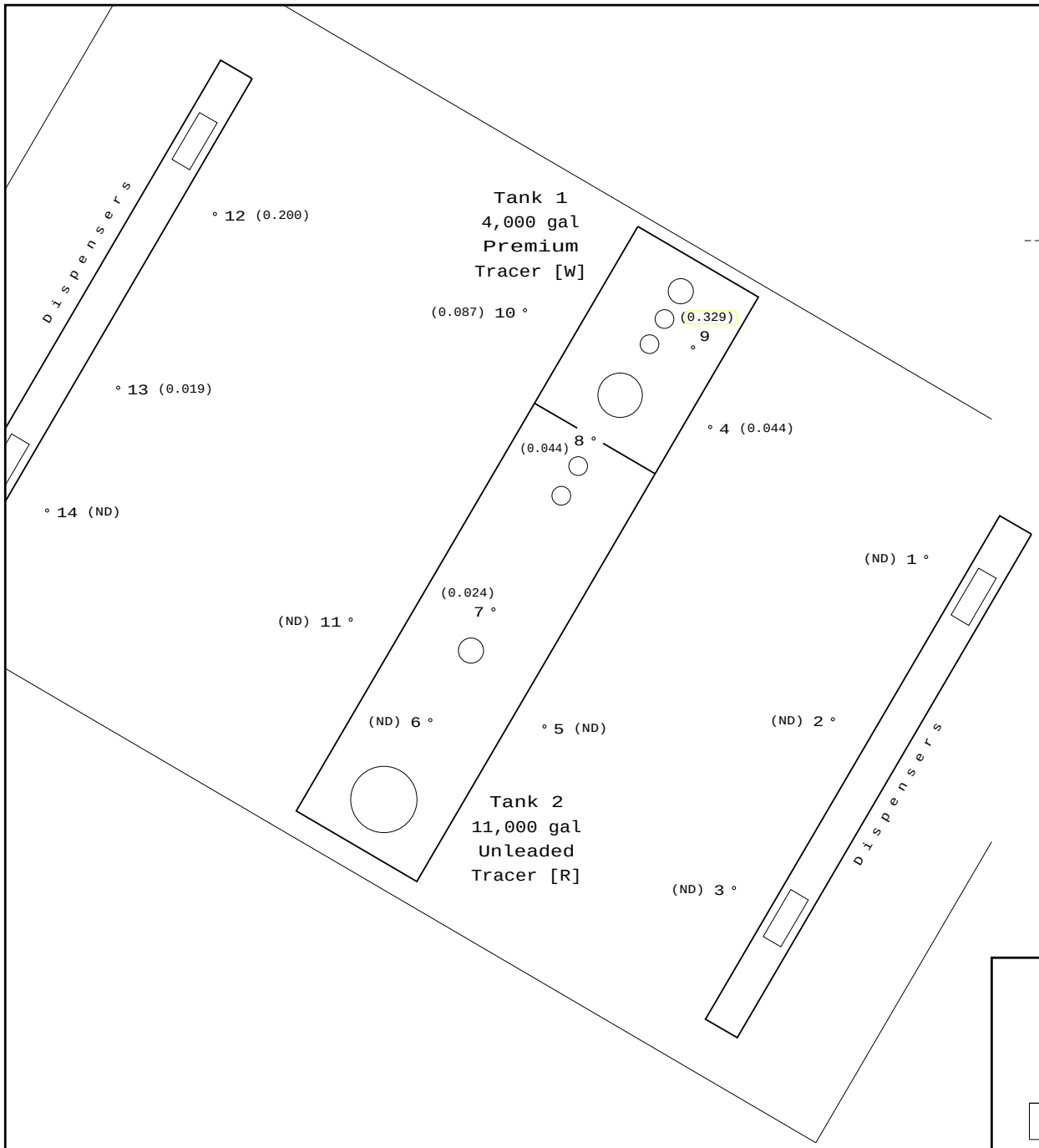
------ Approximate Pipeline Location

File:SY41-01 Size:A
Arc:3665SY41 Date:04-02-01

Site SY 41

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.044)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect

N

0 3 6

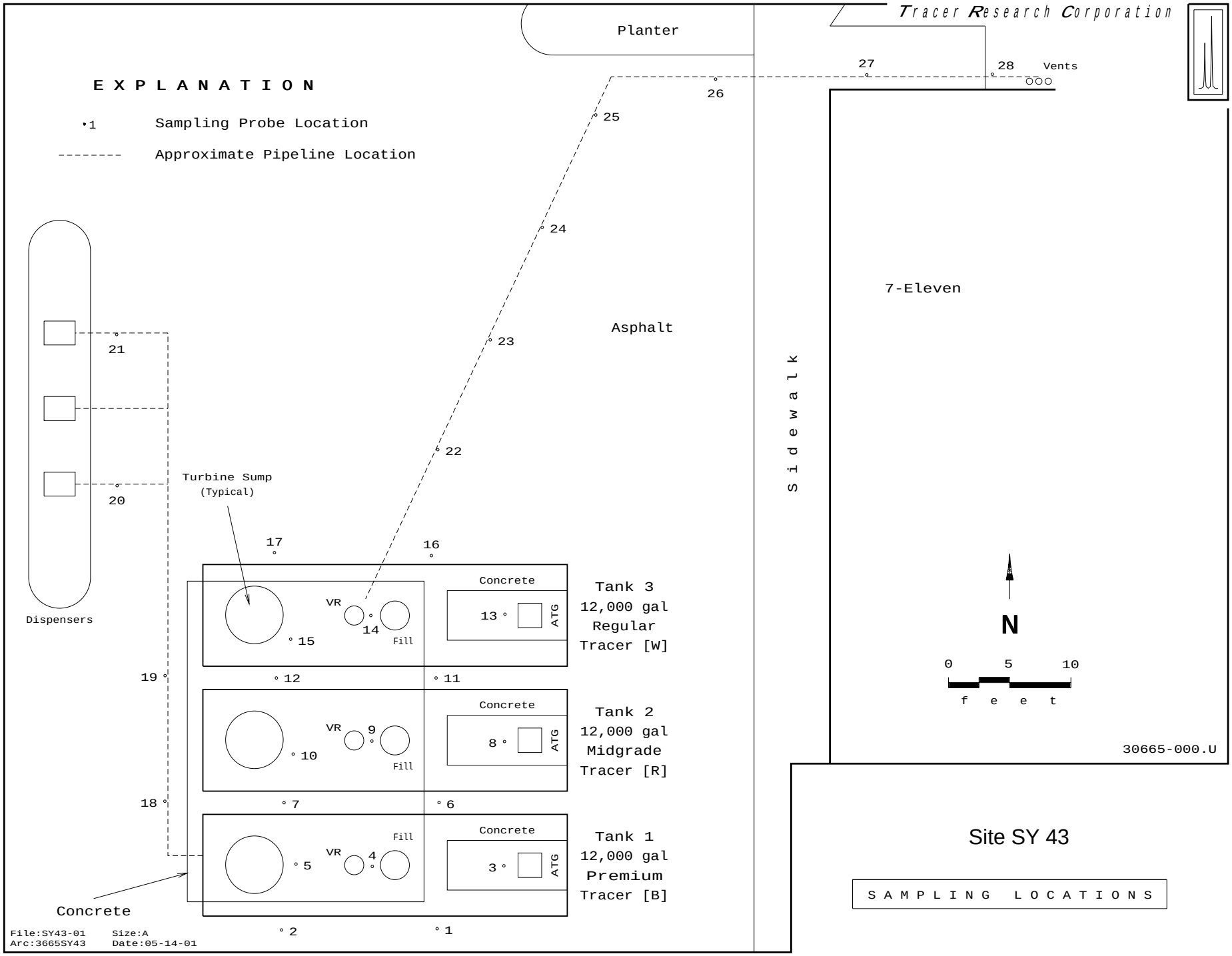
feet

30665-000.U

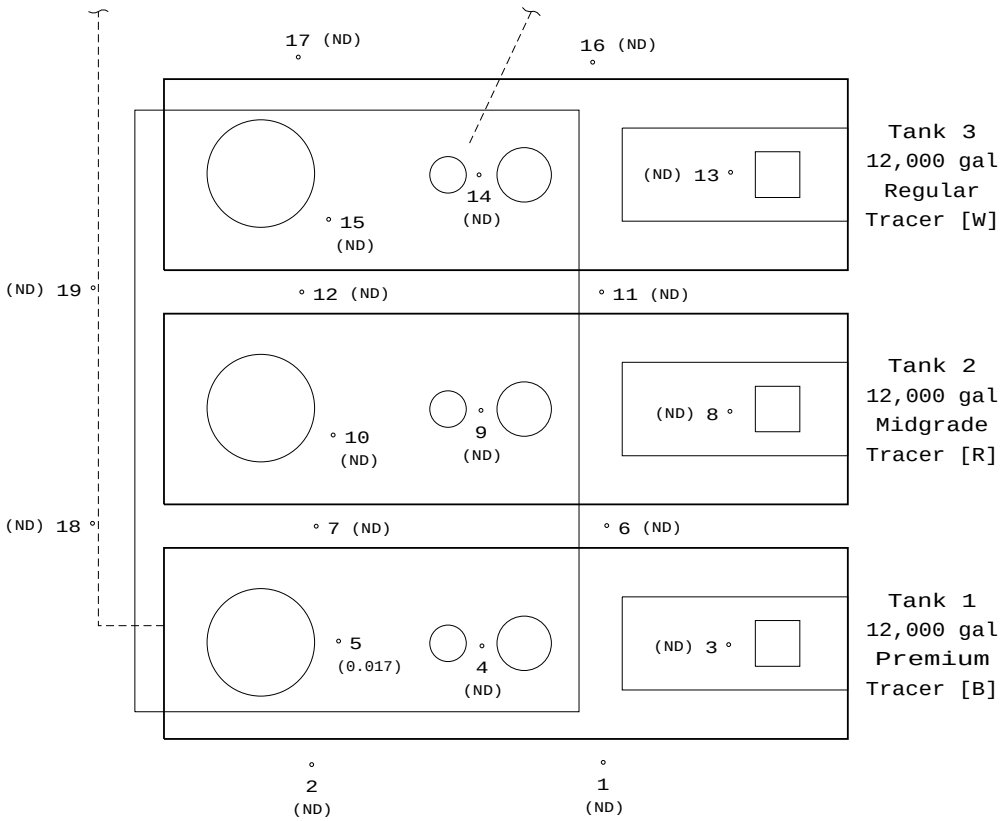
Site SY 41

Tracer [W] Distribution

File:SY41-1A Size:A
Arc:3665SY41 Date:04-02-01


Tracer Research Corporation
Planter
EXPLANATION
1 Sampling Probe Location
Approximate Pipeline Location
27
28
Vents
26
25
24
23
22
Asphalt
7-Eleven
Sidewalk
21
20
Dispensers
Turbine Sump
(Typical)
17
16
Concrete
VR
13
ATG
14
Fill
15
Tank 3
12,000 gal
Regular
Tracer [W]
19
12
11
Concrete
VR
9
8
ATG
Fill
10
Tank 2
12,000 gal
Midgrade
Tracer [R]
18
7
6
Fill
Concrete
VR
4
3
ATG
5
Tank 1
12,000 gal
Premium
Tracer [B]
Concrete
2
1
N
0
5
10
feet
30665-000.U
Site SY 43
SAMPLING LOCATIONS
File:SY43-01
Arc:3665SY43
Size:A
Date:05-14-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.039)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect

N

0 4 8

f e e t

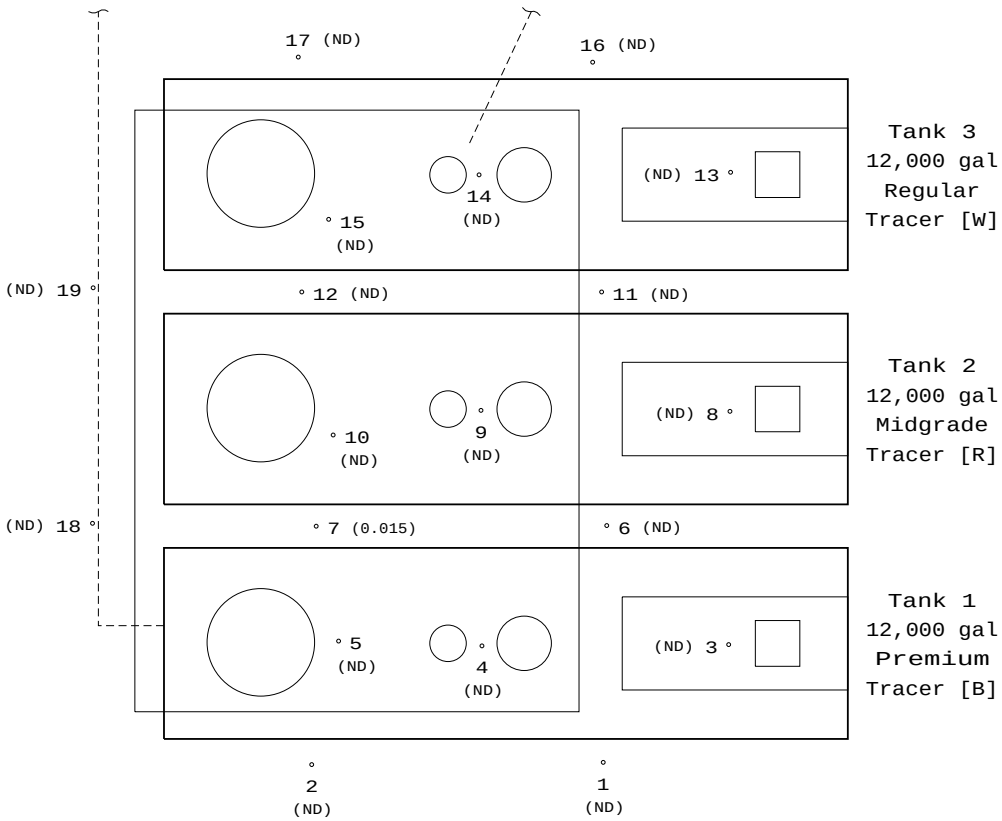
30665-000.U

Site SY 43

Tracer [B] Distribution

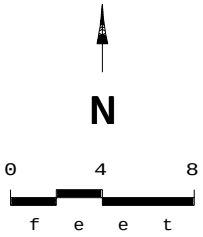
File:SY43-1A Size:A
Arc:3665SY43 Date:05-14-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.039)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect



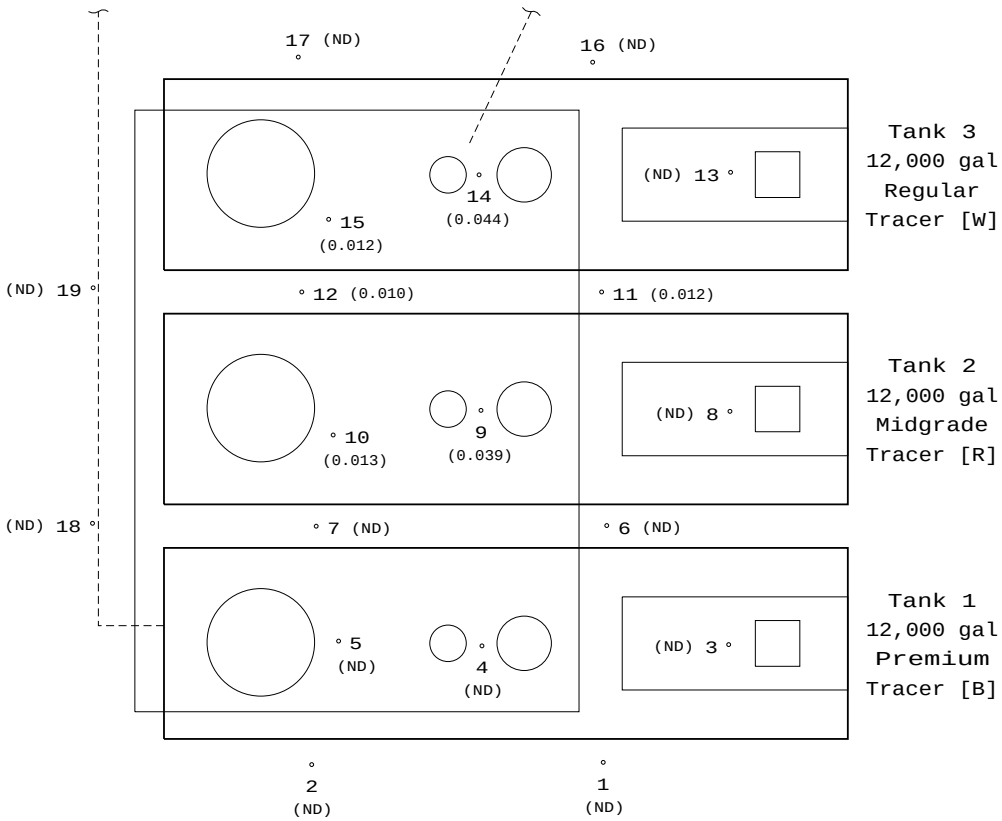
30665-000.U

Site SY 43

Tracer [R] Distribution

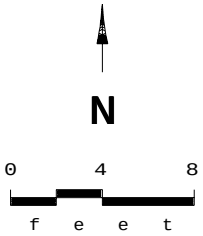
File:SY43-1B Size:A
Arc:3665SY43 Date:05-14-01

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.039)	Tracer W Sample Value (µg/L)
(ND)	Non-Detect



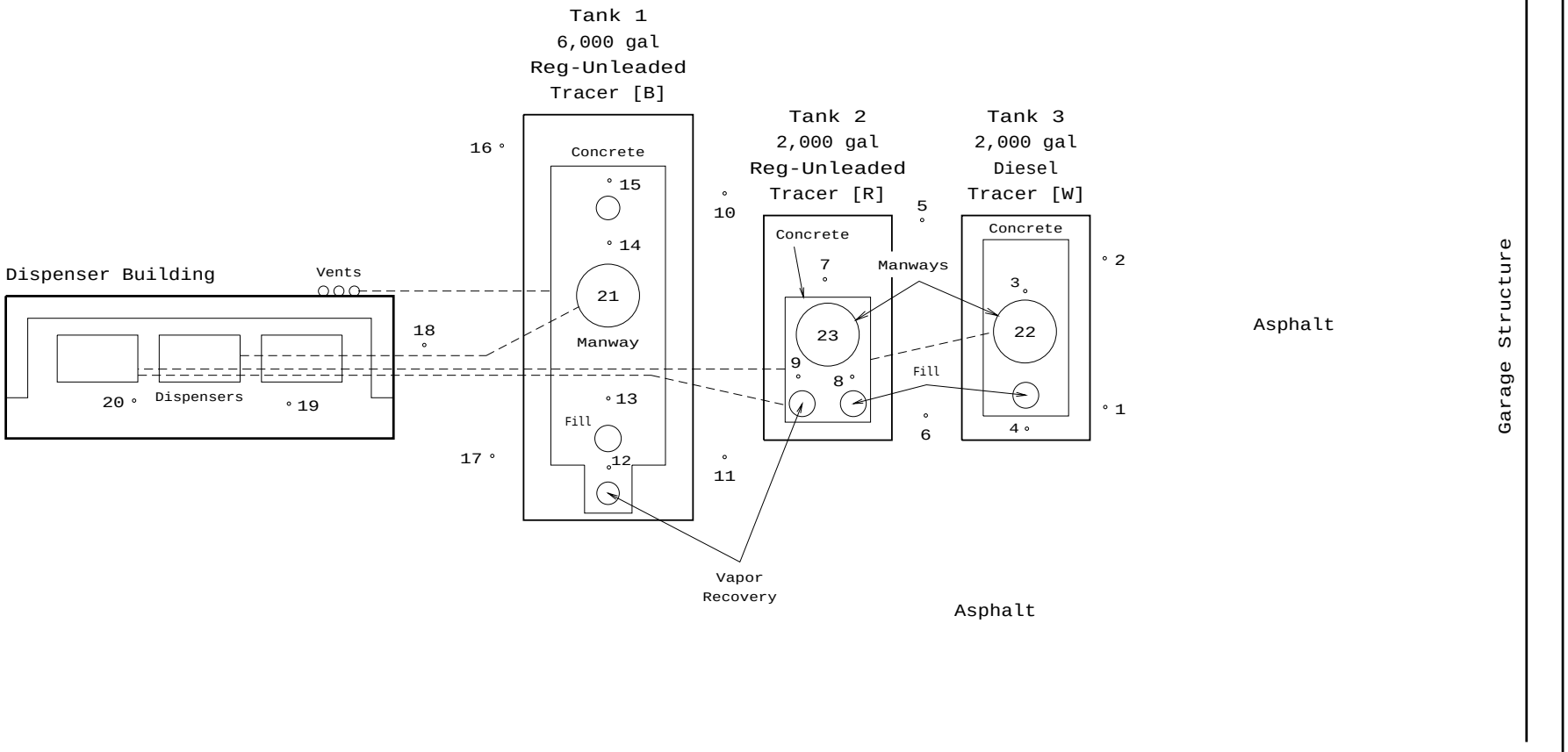
30665-000.U

Site SY 43

T r a c e r [W] D i s t r i b u t i o n

File:SY43-1C Size:A
Arc:3665SY43 Date:05-14-01

Tracer Research Corporation



30665-000.U

EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

N

0 4 8

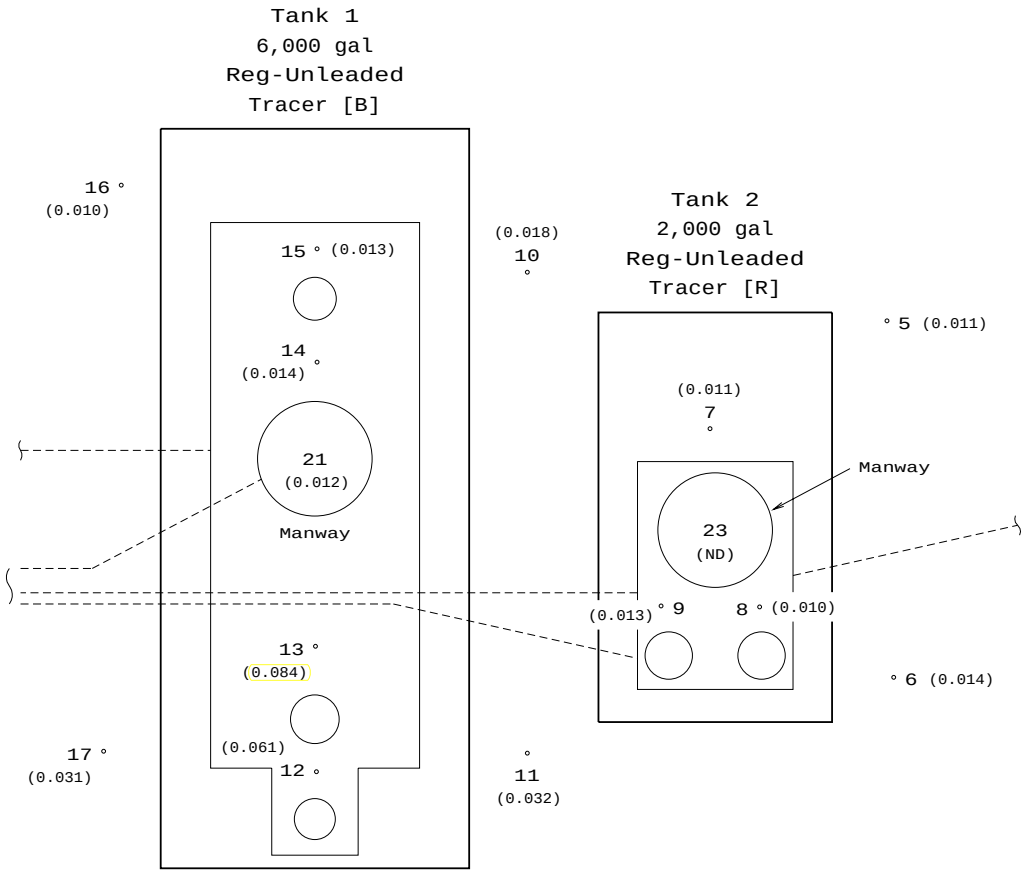
f e e t

File:SY44-01 Size:A
Arc:3665SY44 Date:03-14-01

Site SY 44

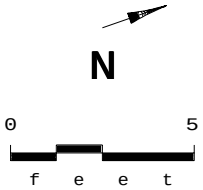
SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.011)	Tracer B Sample Value (µg/L)
(ND)	Non-Detect



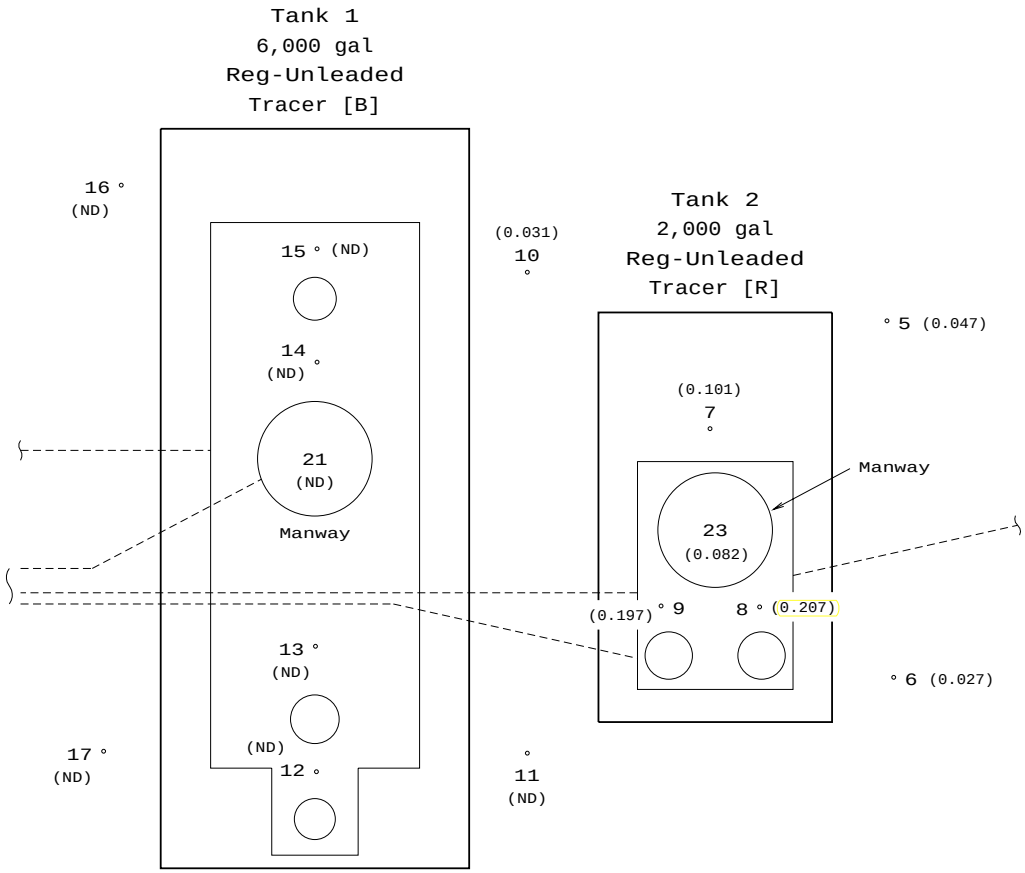
30665-000.U

Site SY 44

Tracer [B] Distribution

File:SY44-1A Size:A
Arc:3665SY44 Date:03-14-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.047)	Tracer R Sample Value (µg/L)
(ND)	Non-Detect

N

0 5

f e e t

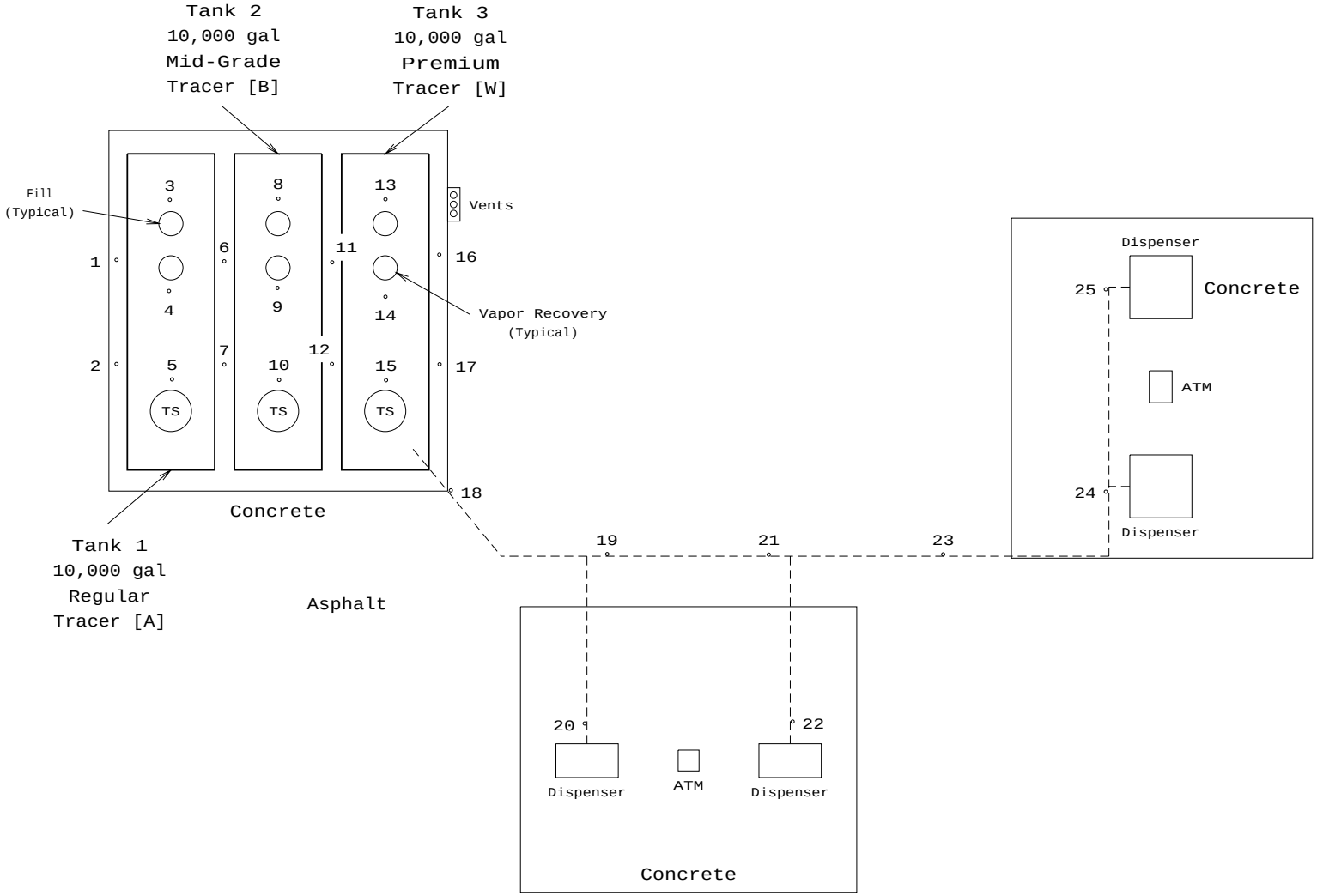
30665-000.U

Site SY 44

Tracer [R] Distribution

File:SY44-1B Size:A
Arc:3665SY44 Date:03-14-01

Tracer Research Corporation



30665-000.U

N

0 15

f e e t

EXPLANATION

•1 Sampling Probe Location

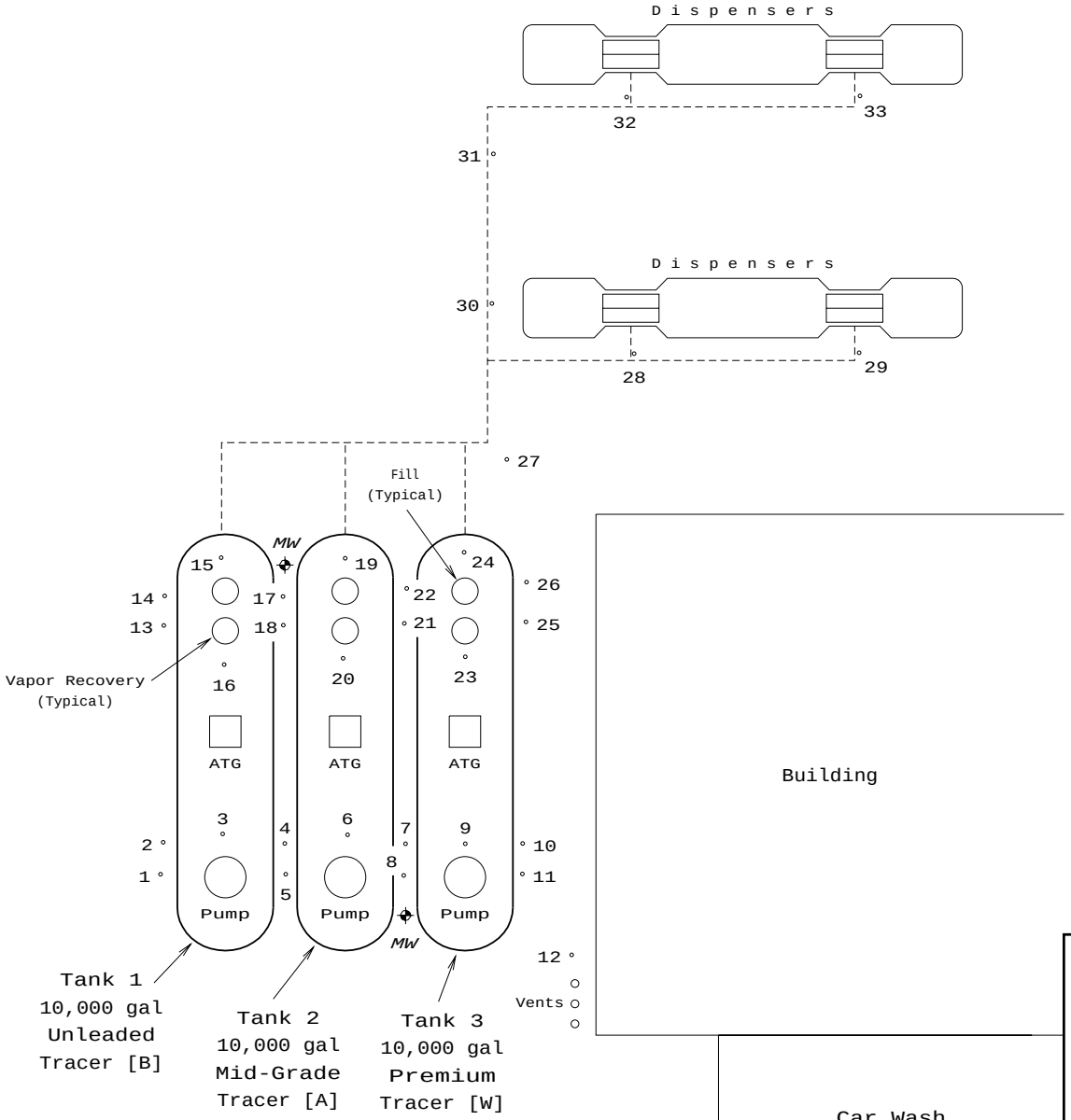
------ Approximate Pipeline Location

File:SY45-01 Size:A
Arc:3665SY45 Date:01-23-01

Site SY 45

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
⌖ MW	Monitoring Well Location

N

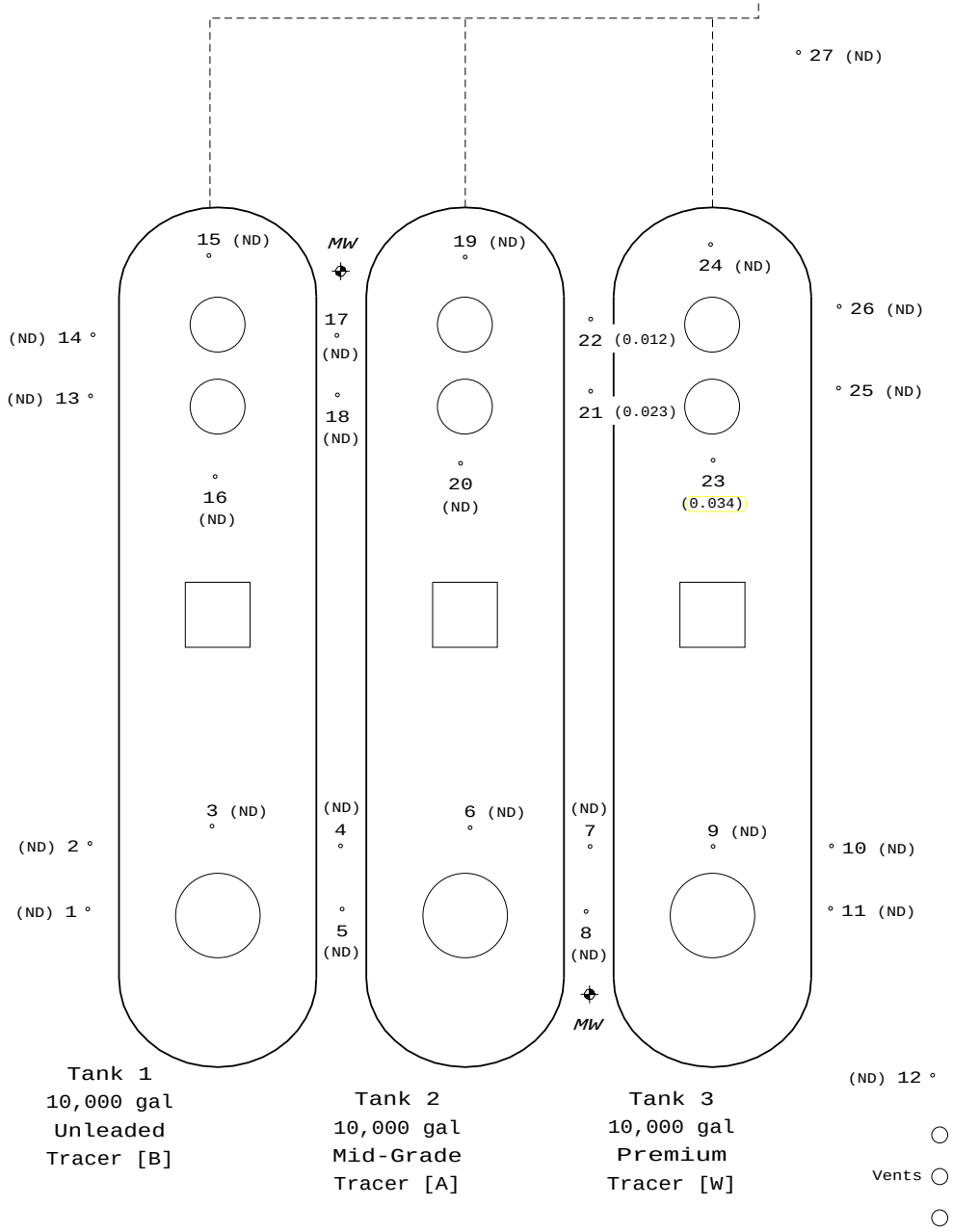
30665-000.U

Site SY 47

SAMPLING LOCATIONS

File:SY47-01 Size:A
Arc:3665SY47 Date:05-08-01

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
⌖ MW	Monitoring Well Location
(0.410)	Tracer A Sample Value (µg/L)
(ND)	Non-Detect

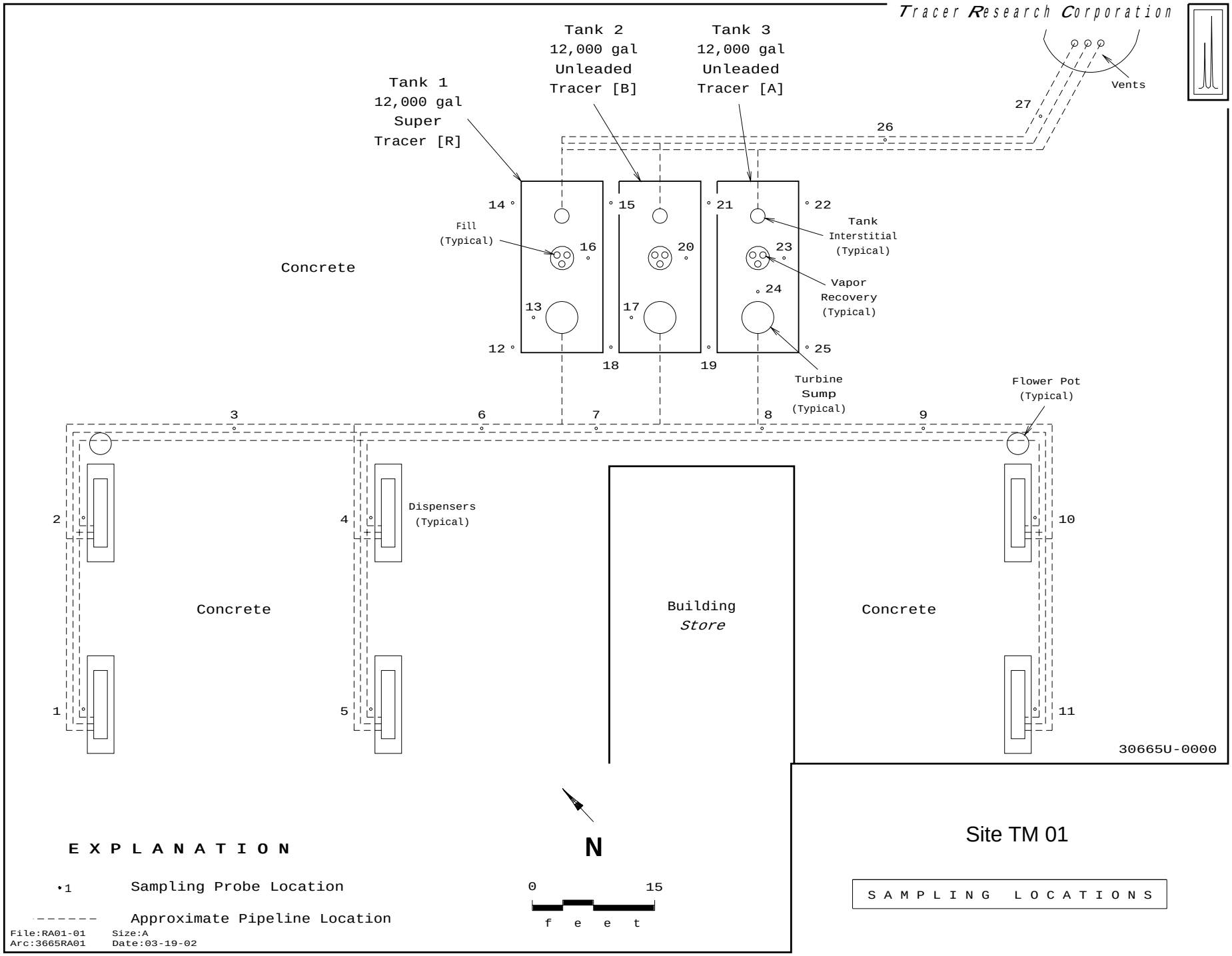
N

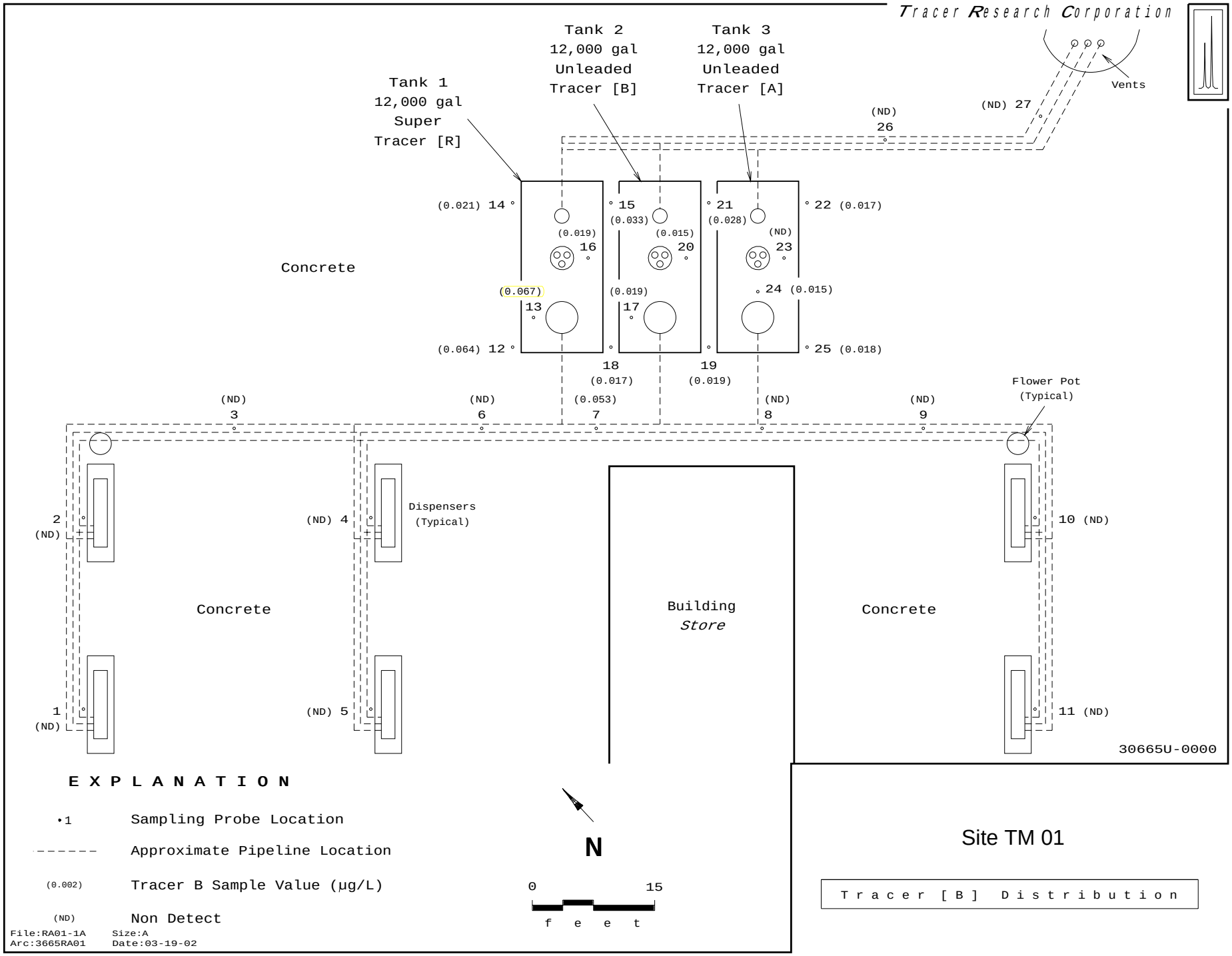
30665-000.U

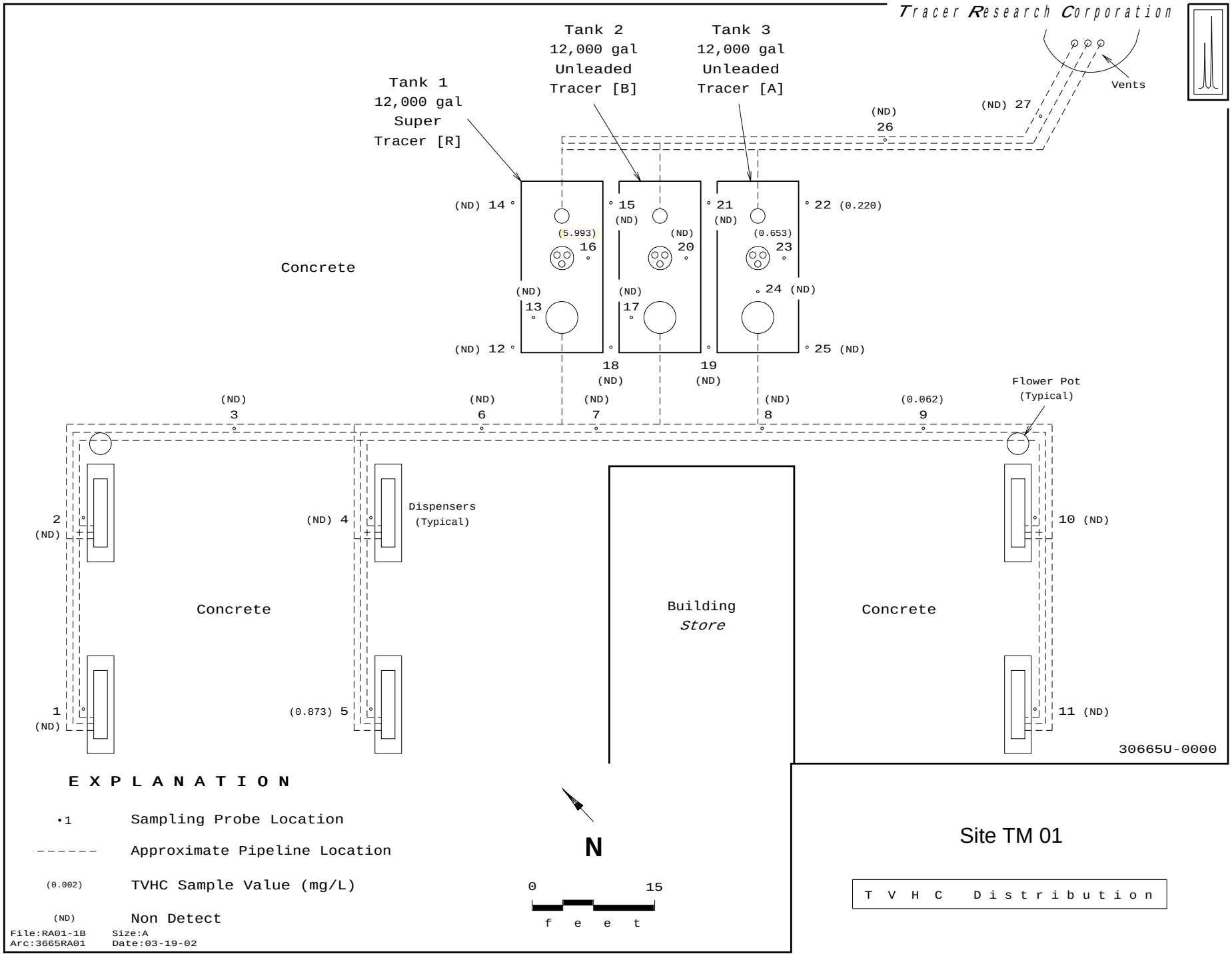
Site SY 47

Tracer [A] Distribution

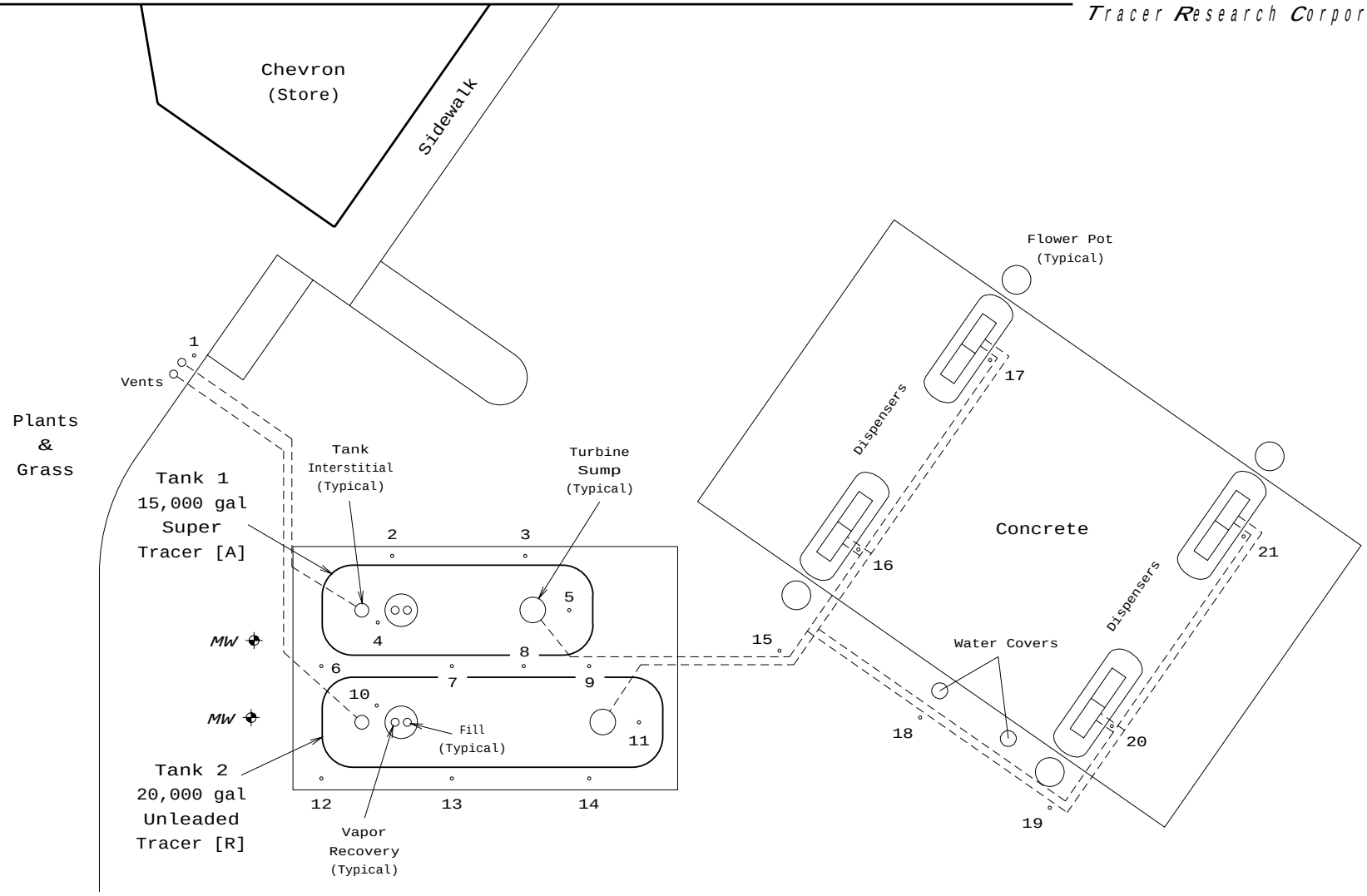
File:SY47-1A Size:A
Arc:3665SY47 Date:05-08-01


Tracer Research Corporation
Tank 1
12,000 gal
Super
Tracer [R]
Tank 2
12,000 gal
Unleaded
Tracer [B]
Tank 3
12,000 gal
Unleaded
Tracer [A]
Vents
27
26
14
15
21
22
Fill
(Typical)
16
20
23
Tank
Interstitial
(Typical)
Concrete
Vapor
Recovery
(Typical)
24
13
17
12
18
19
25
Turbine
Sump
(Typical)
Flower Pot
(Typical)
3
6
7
8
9
2
4
Dispensers
(Typical)
10
Concrete
Building
Store
Concrete
1
5
11
30665U-0000
N
0
15
f e e t
EXPLANATION
•1 Sampling Probe Location
------ Approximate Pipeline Location
File:RA01-01
Arc:3665RA01
Size:A
Date:03-19-02
Site TM 01
SAMPLING LOCATIONS


Tracer Research Corporation
Tank 1
12,000 gal
Super
Tracer [R]
Tank 2
12,000 gal
Unleaded
Tracer [B]
Tank 3
12,000 gal
Unleaded
Tracer [A]
Vents
(ND) 27
(ND) 26
(0.021) 14
15 (0.033)
21 (0.028)
22 (0.017)
(0.019) 16
(0.015) 20
(ND) 23
Concrete
(0.067) 13
(0.019) 17
24 (0.015)
(0.064) 12
25 (0.018)
18 (0.017)
19 (0.019)
Flower Pot
(Typical)
(ND) 3
(ND) 6
(0.053) 7
(ND) 8
(ND) 9
2 (ND)
(ND) 4
Dispensers
(Typical)
10 (ND)
Concrete
Building
Store
Concrete
1 (ND)
(ND) 5
11 (ND)
30665U-0000
EXPLANATION
•1 Sampling Probe Location
Approximate Pipeline Location
(0.002) Tracer B Sample Value (µg/L)
(ND) Non Detect
N
0 15
f e e t
File:RA01-1A Size:A
Arc:3665RA01 Date:03-19-02
Site TM 01
Tracer [B] Distribution


Tracer Research Corporation
Tank 1
12,000 gal
Super
Tracer [R]
Tank 2
12,000 gal
Unleaded
Tracer [B]
Tank 3
12,000 gal
Unleaded
Tracer [A]
Vents
(ND) 27
(ND)
26
(ND) 14
15
(ND)
21
(ND)
22 (0.220)
(5.993)
16
(ND)
20
(0.653)
23
Concrete
(ND)
13
(ND)
17
24 (ND)
(ND) 12
25 (ND)
18
(ND)
19
(ND)
Flower Pot
(Typical)
(ND)
3
(ND)
6
(ND)
7
(ND)
8
(0.062)
9
2
(ND)
(ND) 4
Dispensers
(Typical)
10 (ND)
Concrete
Building
Store
Concrete
1
(ND)
(0.873) 5
11 (ND)
30665U-0000
EXPLANATION
•1 Sampling Probe Location
------ Approximate Pipeline Location
(0.002) TVHC Sample Value (mg/L)
(ND) Non Detect
N
0
15
f e e t
Site TM 01
T V H C D i s t r i b u t i o n
File:RA01-1B
Arc:3665RA01
Size:A
Date:03-19-02

Tracer Research Corporation



30665U-0000

EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

MW Monitoring Well Location

N

0 15

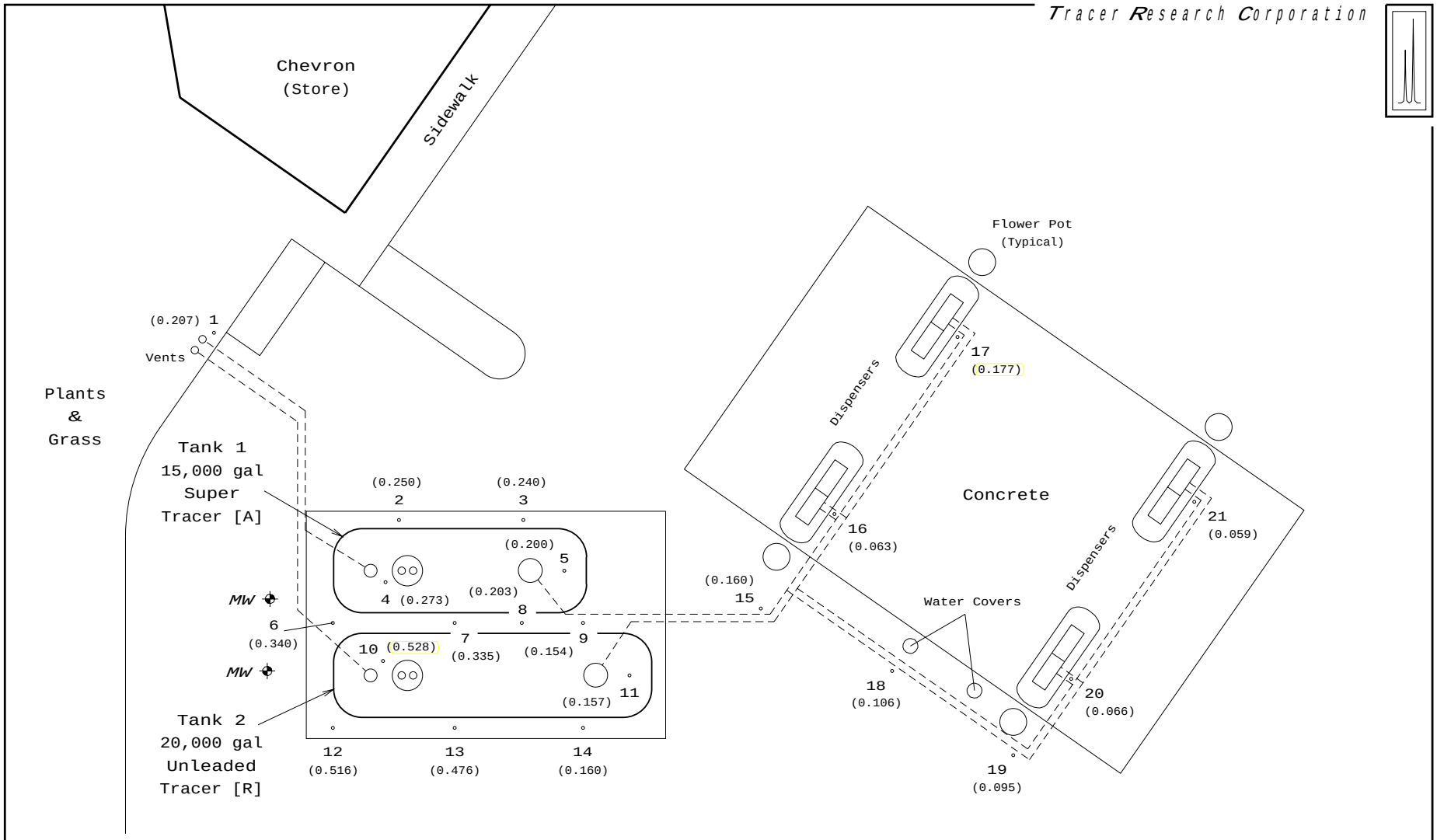
f e e t

File:RA02-01 Size:A
Arc:3665RA02 Date:03-12-02

Site TM 02

SAMPLING LOCATIONS

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
- - - - - -	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

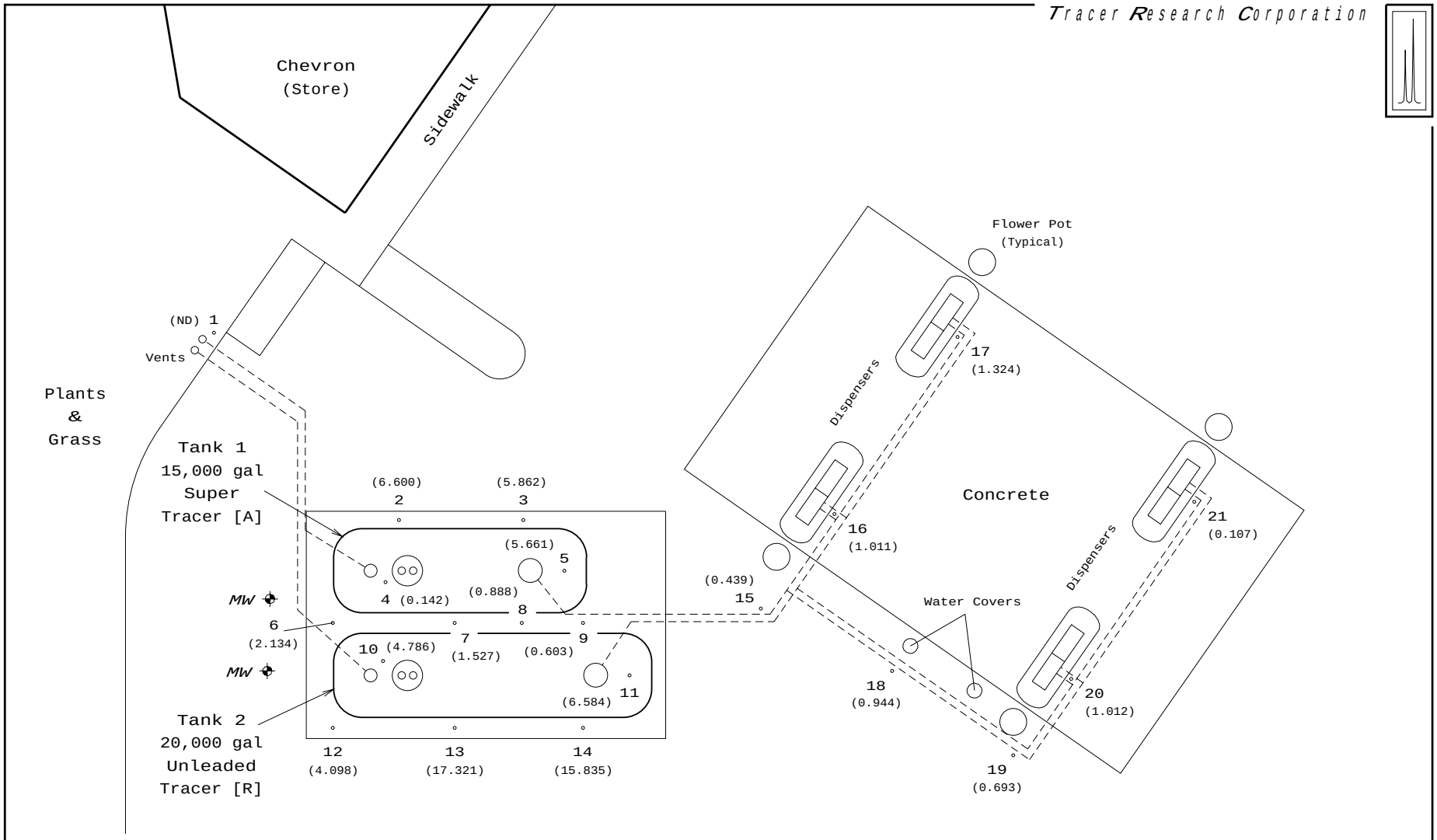
0 15
feet

File:RA02-1A Size:A
Arc:3665RA02 Date:03-12-02

Site TM 02

Tracer [A] Distribution

Tracer Research Corporation



30665U-0000

E X P L A N A T I O N

•1	Sampling Probe Location
- - - - - -	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 15

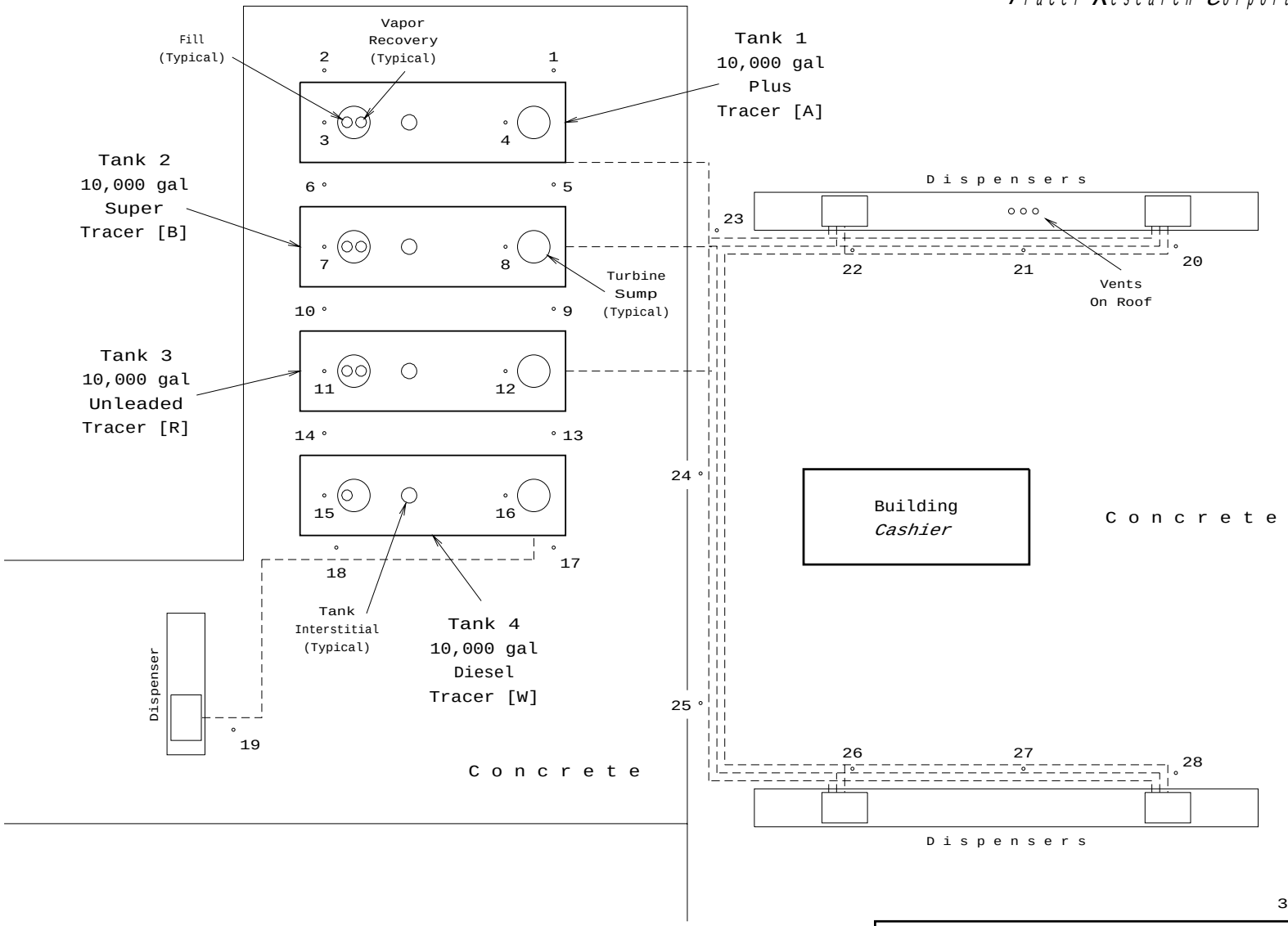
f e e t

File:RA02-1B Size:A
Arc:3665RA02 Date:03-12-02

Site TM 02

T V H C D i s t r i b u t i o n

Tracer Research Corporation



N

0 15
f e e t

EXPLANATION

•1 Sampling Probe Location

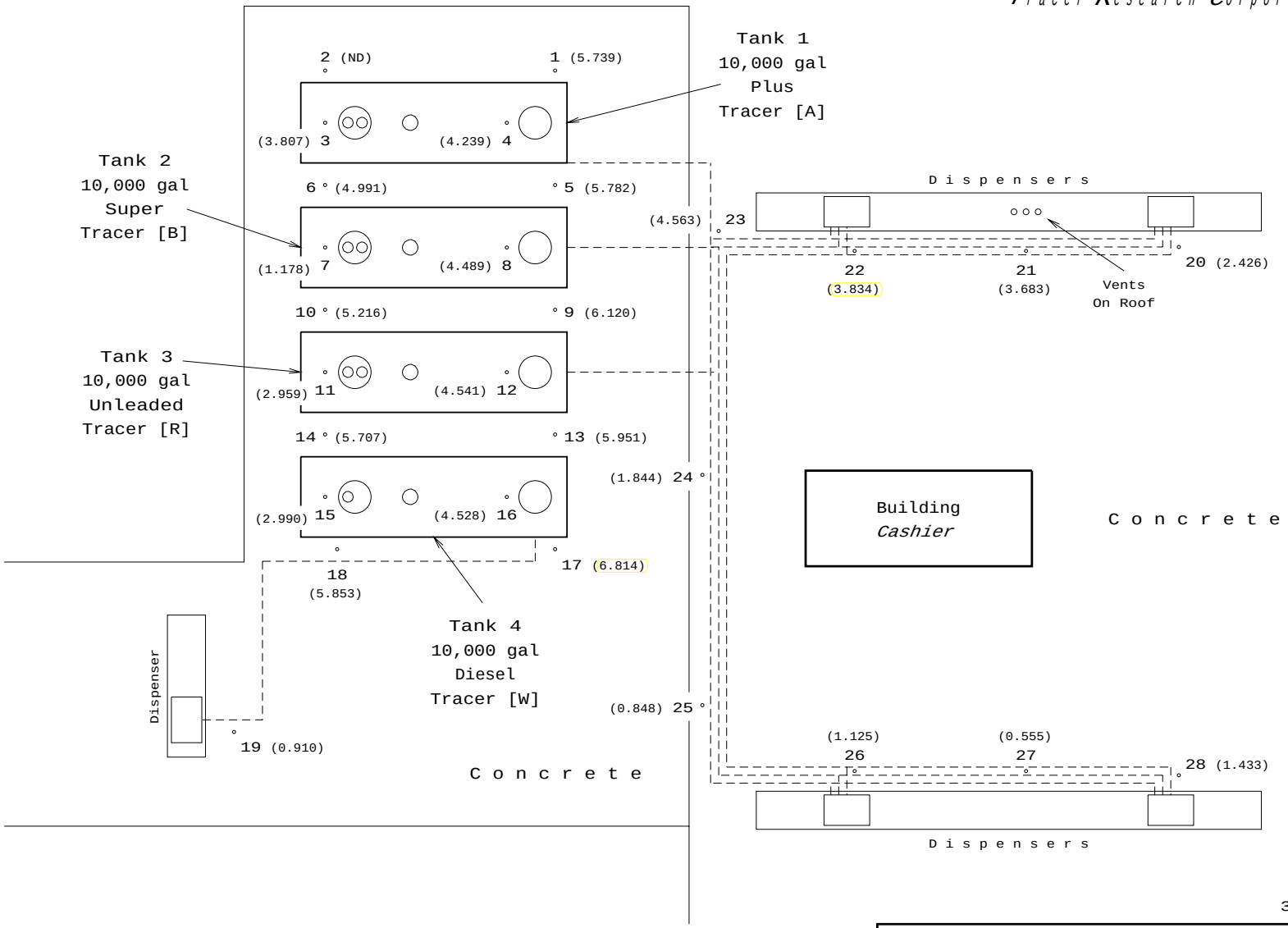
------ Approximate Pipeline Location

File:RA03-01 Size:A
Arc:3665RA03 Date:03-26-02

Site TM 03

SAMPLING LOCATIONS

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

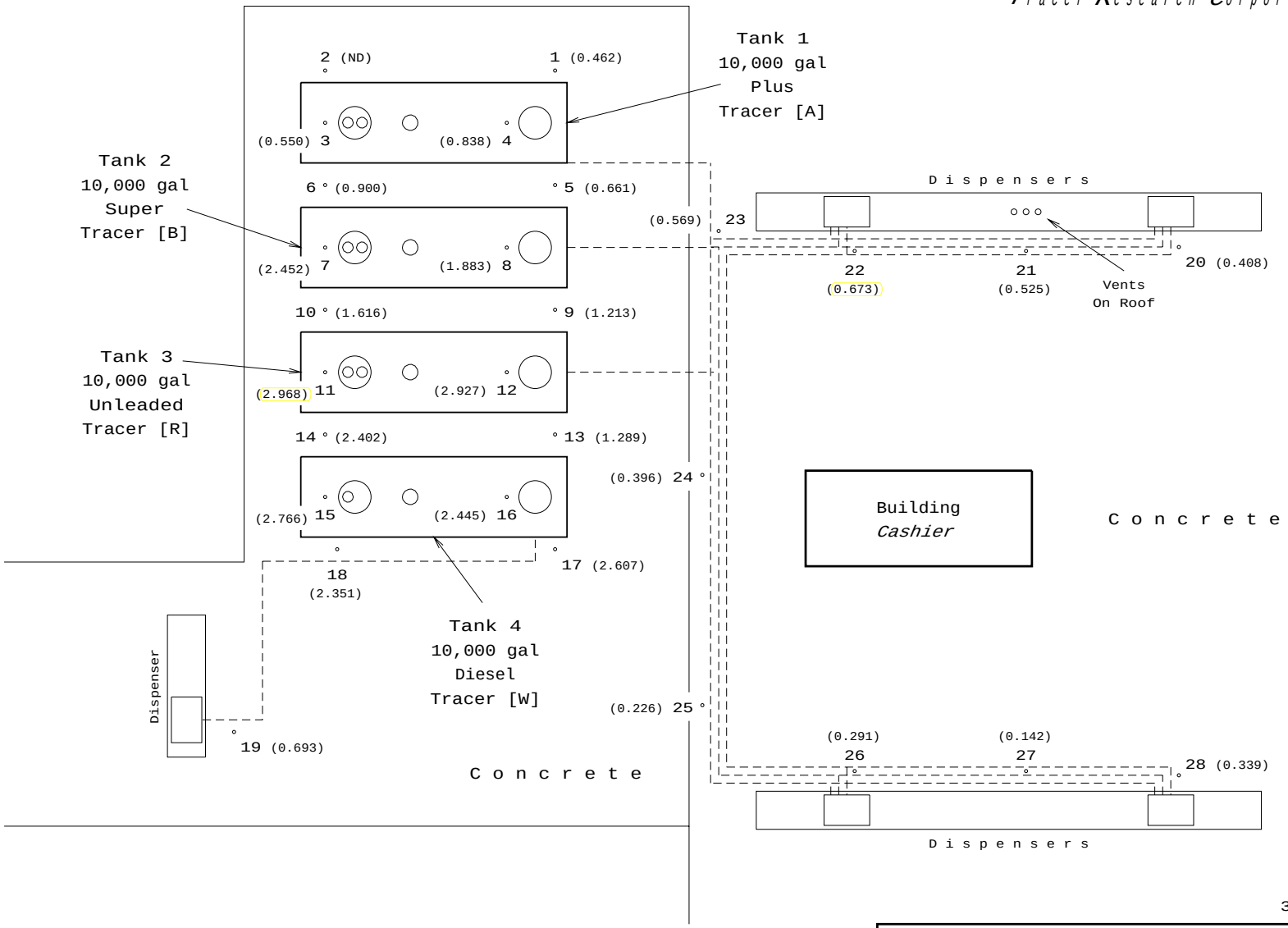
0 15
feet

File:RA03-1A Size:A
Arc:3665RA03 Date:03-26-02

Site TM 03

Tracer [A] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

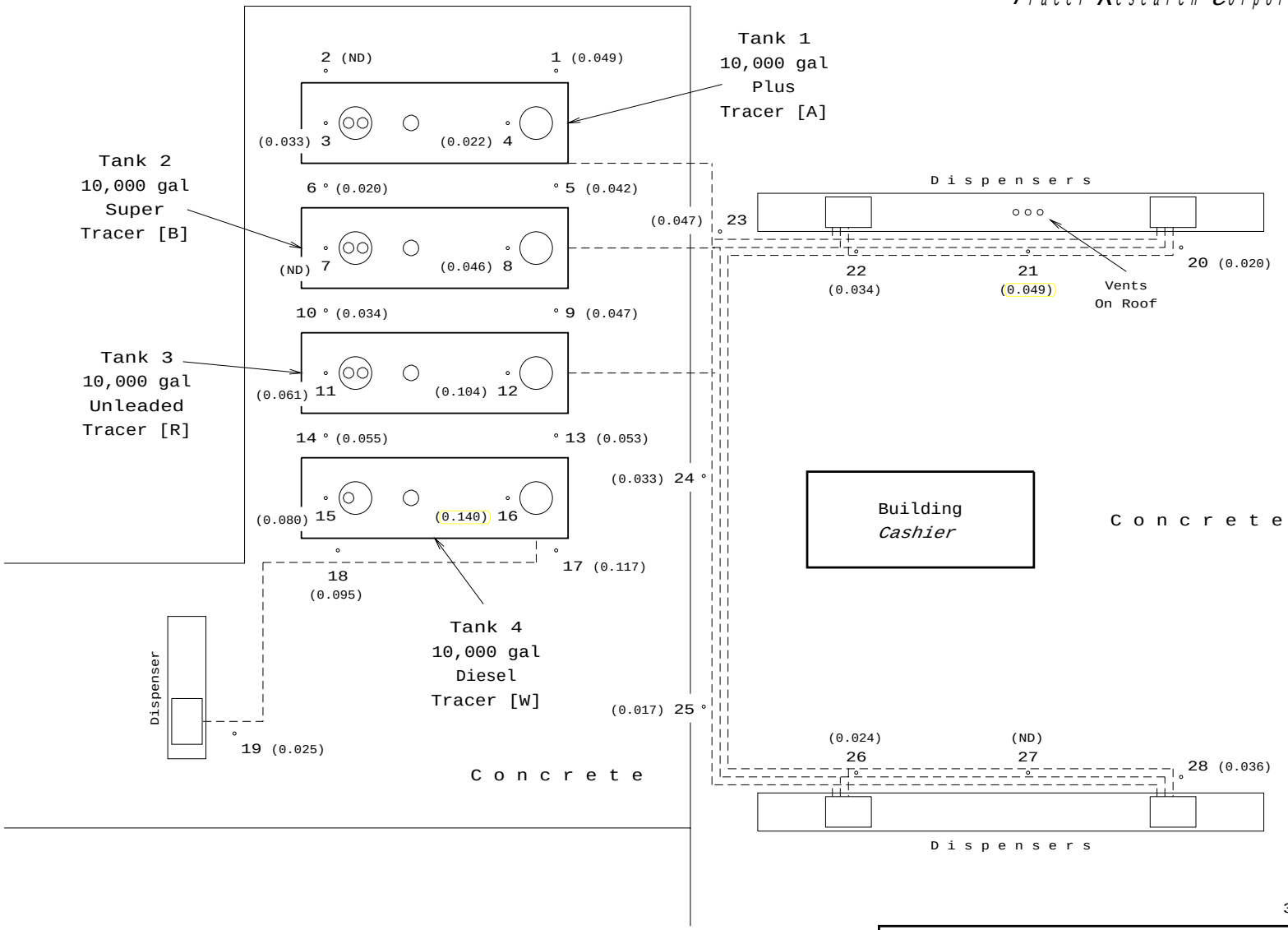
0 15
feet

File:RA03-1B Size:A
Arc:3665RA03 Date:03-26-02

Site TM 03

Tracer [B] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

N

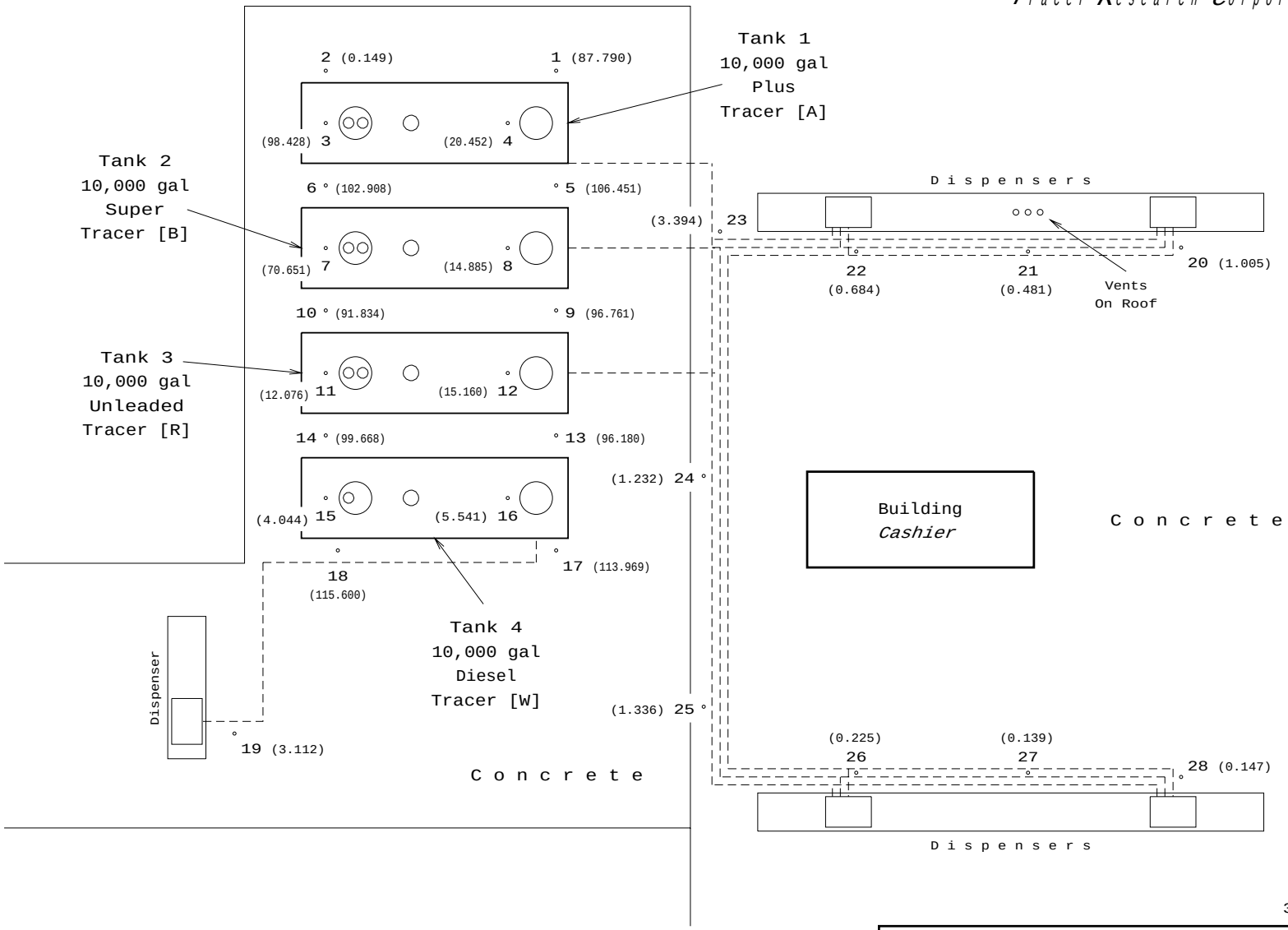
0 15
feet

File:RA03-1C
Arc:3665RA03
Size:A
Date:03-26-02

Site TM 03

Tracer [R] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

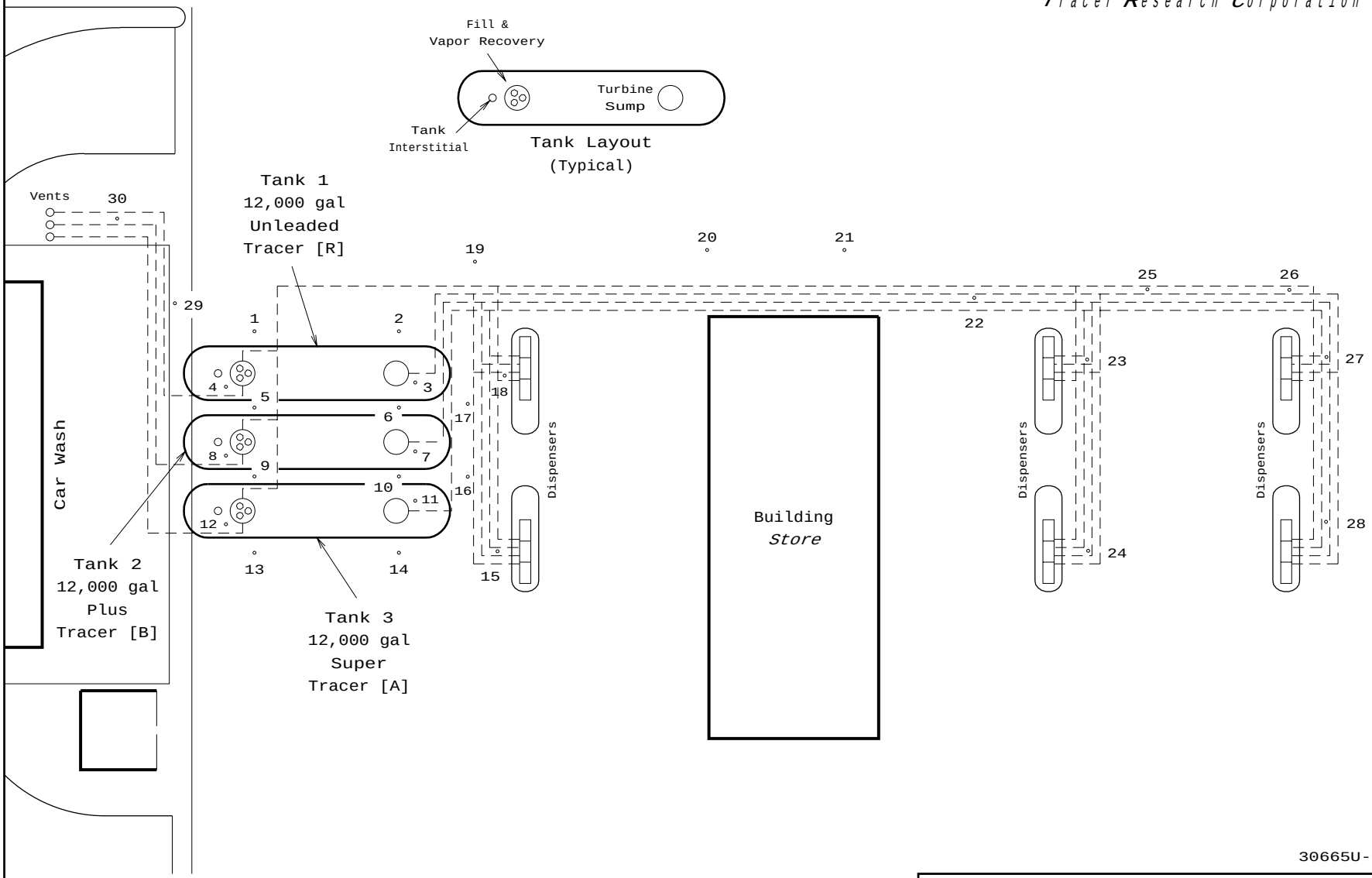
0 15
feet

File:RA03-1D Size:A
Arc:3665RA03 Date:03-26-02

Site TM 03

TVHC Distribution

Tracer Research Corporation



E X P L A N A T I O N

•1 Sampling Probe Location

------ Approximate Pipeline Location

N

0 10 20

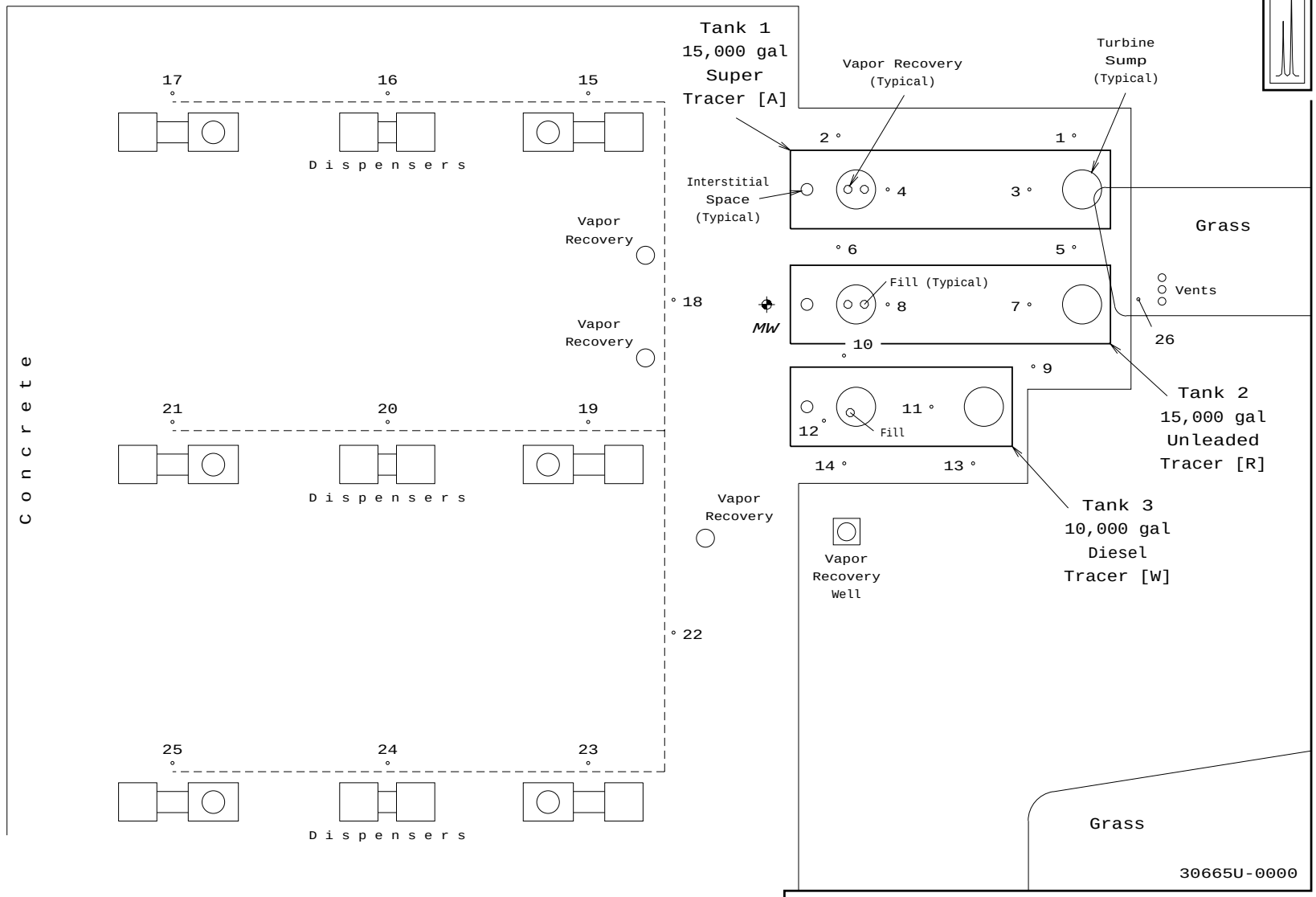
f e e t

File:RA04-01 Size:A
Arc:3665RA04 Date:03-15-02

Site TM 04

S A M P L I N G L O C A T I O N S

Tracer Research Corporation



EXPLANATION

•1 Sampling Probe Location

------ Approximate Pipeline Location

MW Monitoring Well Location

N

0 15

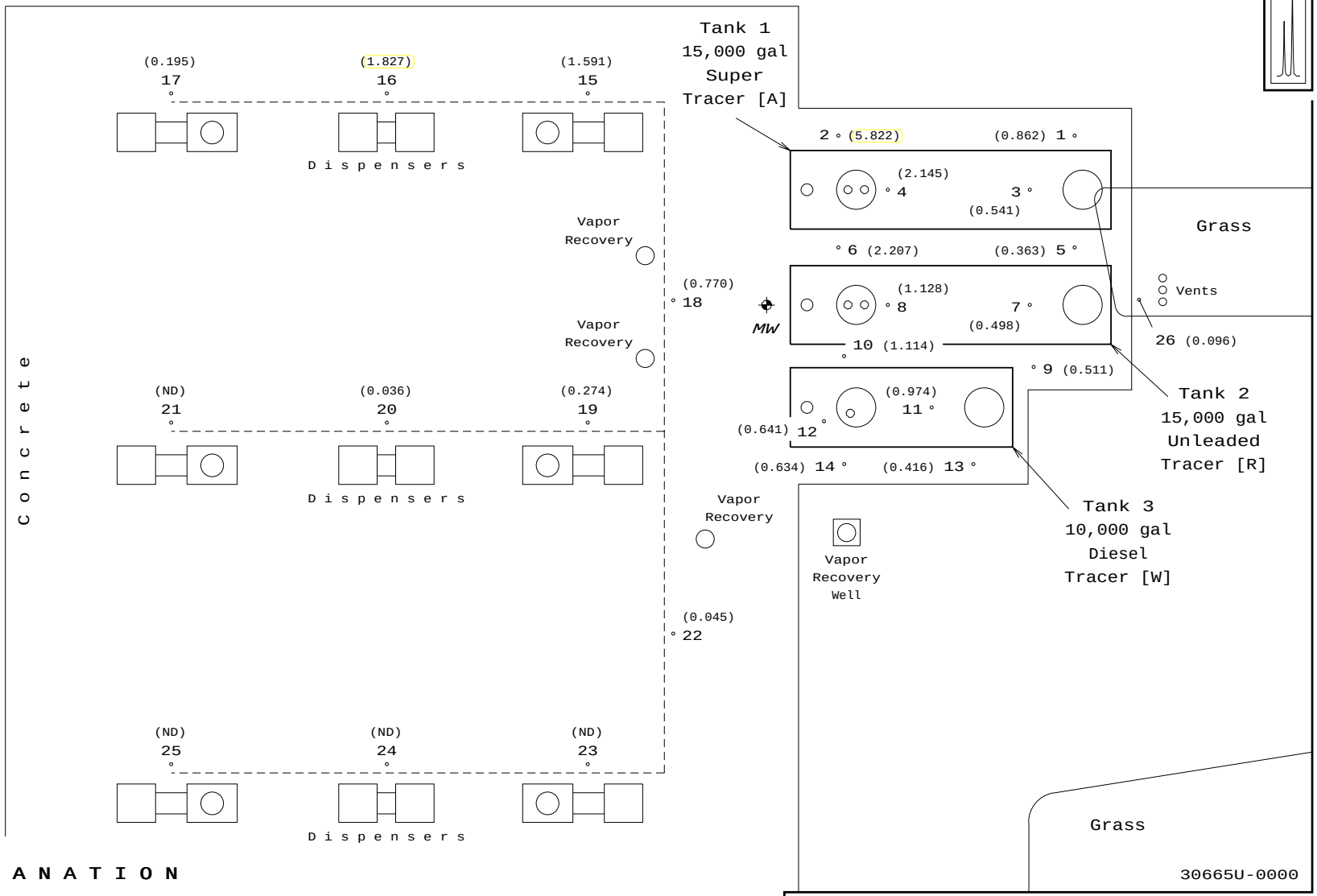
f e e t

File:RA05-01 Size:A
Arc:3665RA05 Date:03-08-02

Site TM 05

SAMPLING LOCATIONS

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
- - - - - -	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

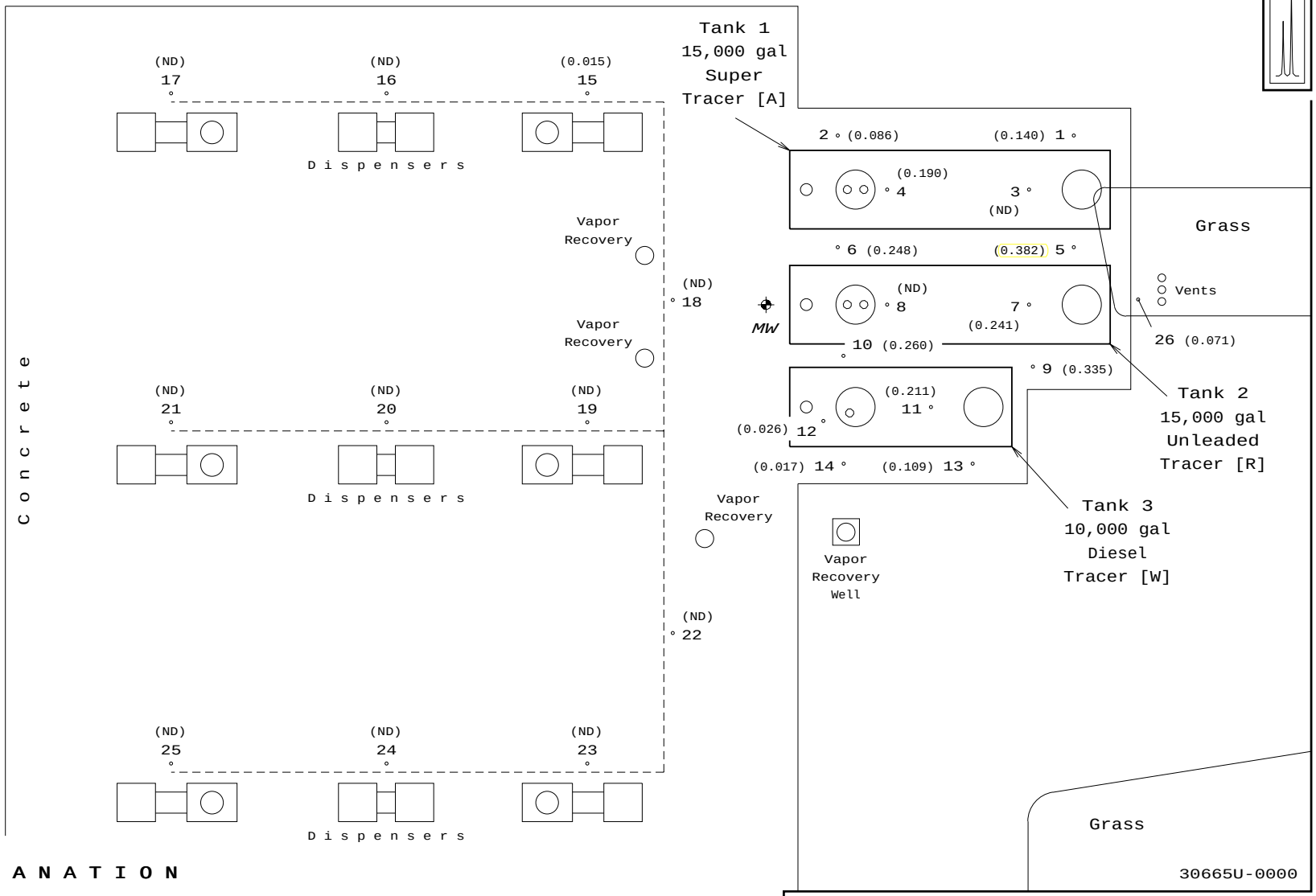
0 15
feet

File:RA05-1A Size:A
Arc:3665RA05 Date:03-08-02

Site TM 05

Tracer [A] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
- - - - - -	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

N

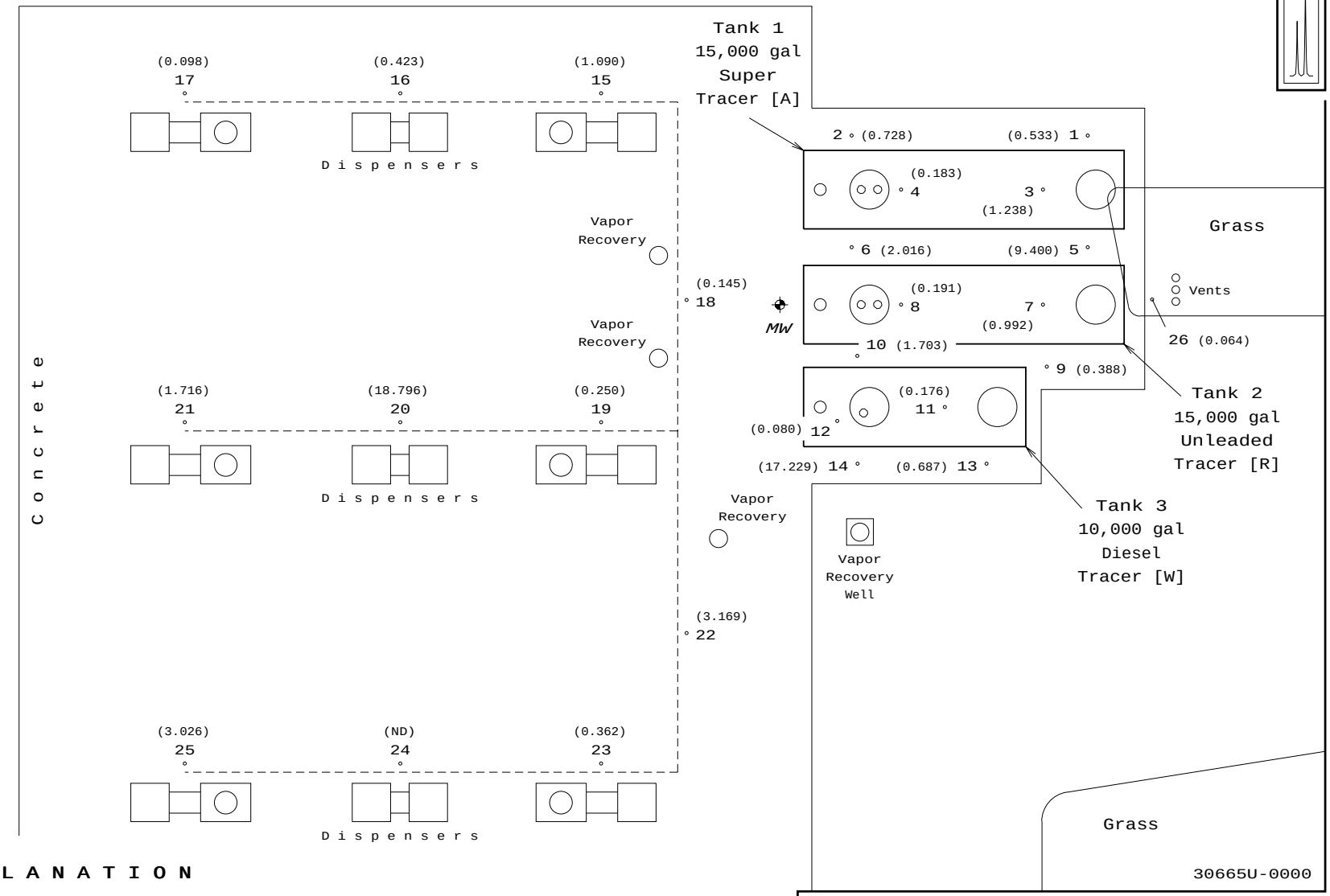
0 15
feet

File:RA05-1B Size:A
Arc:3665RA05 Date:03-08-02

Site TM 05

Tracer [R] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

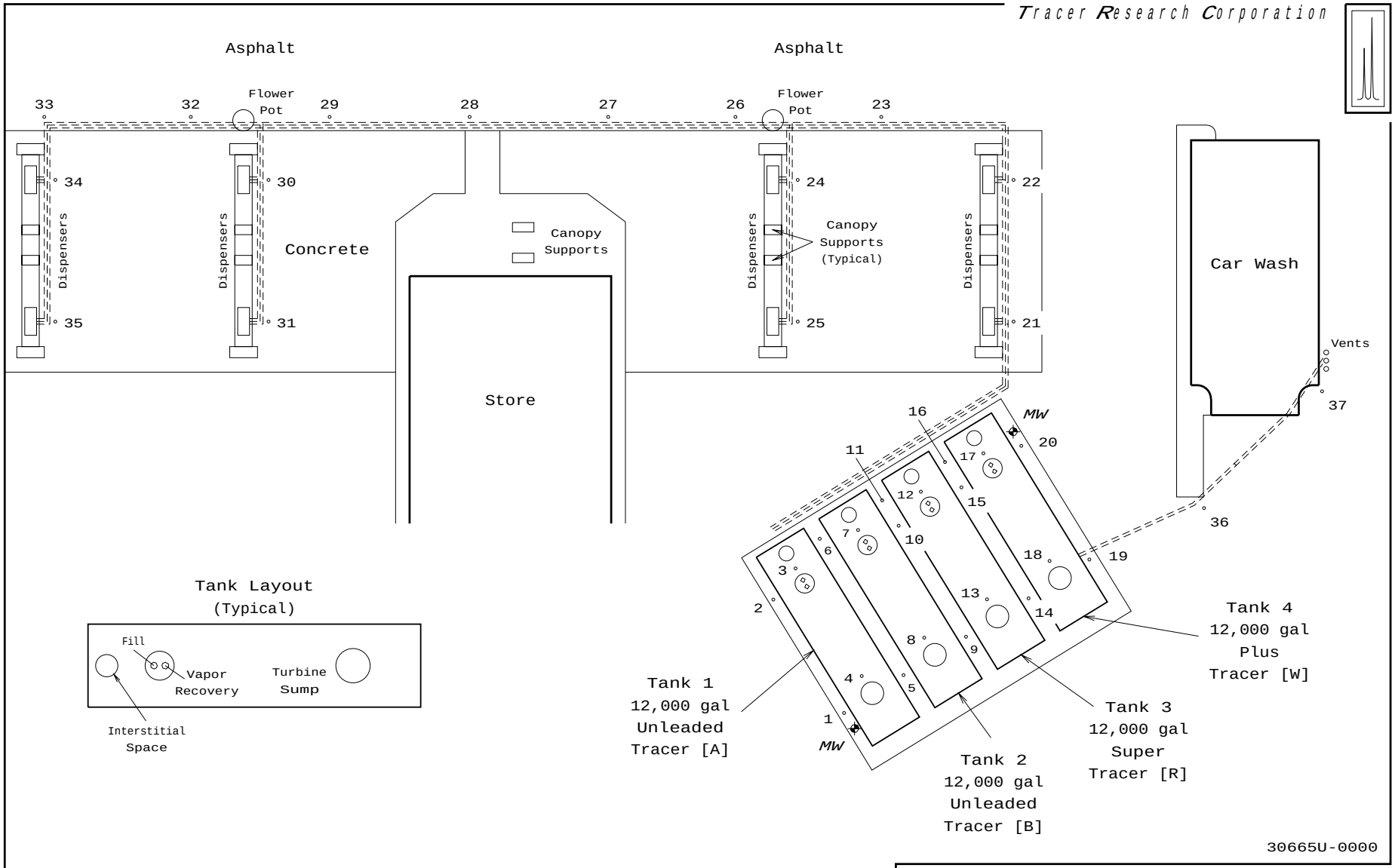
0 15
feet

File:RA05-1C Size:A
Arc:3665RA05 Date:03-08-02

Site TM 05

TVHC Distribution

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
------	Approximate Pipeline Location
⌖ MW	Monitoring Well Location

N

0 10 20

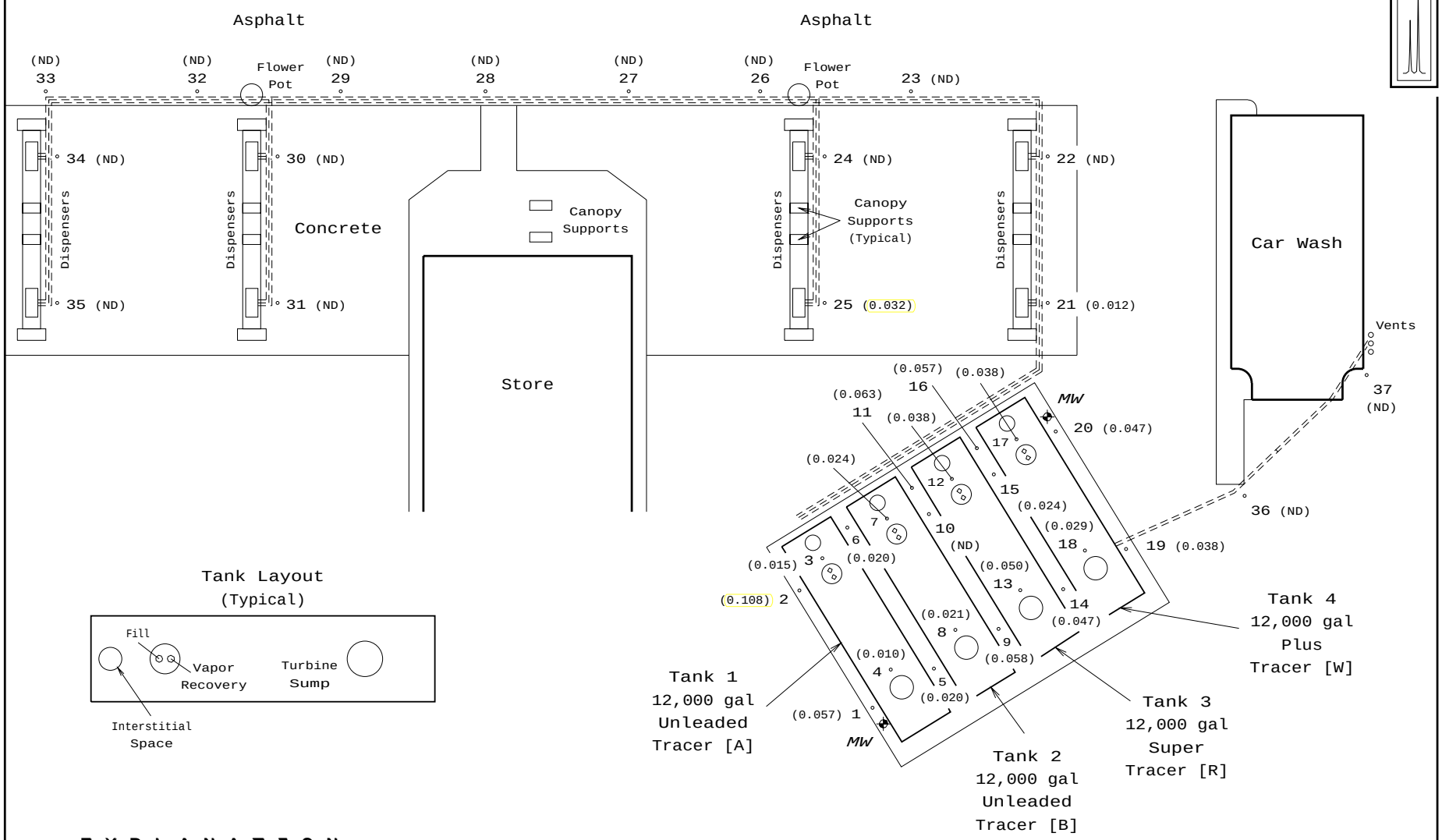
f e e t

File:RA06-01 Size:A
Arc:3665RA06 Date:02-20-02

Site TM 06

S A M P L I N G L O C A T I O N S

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

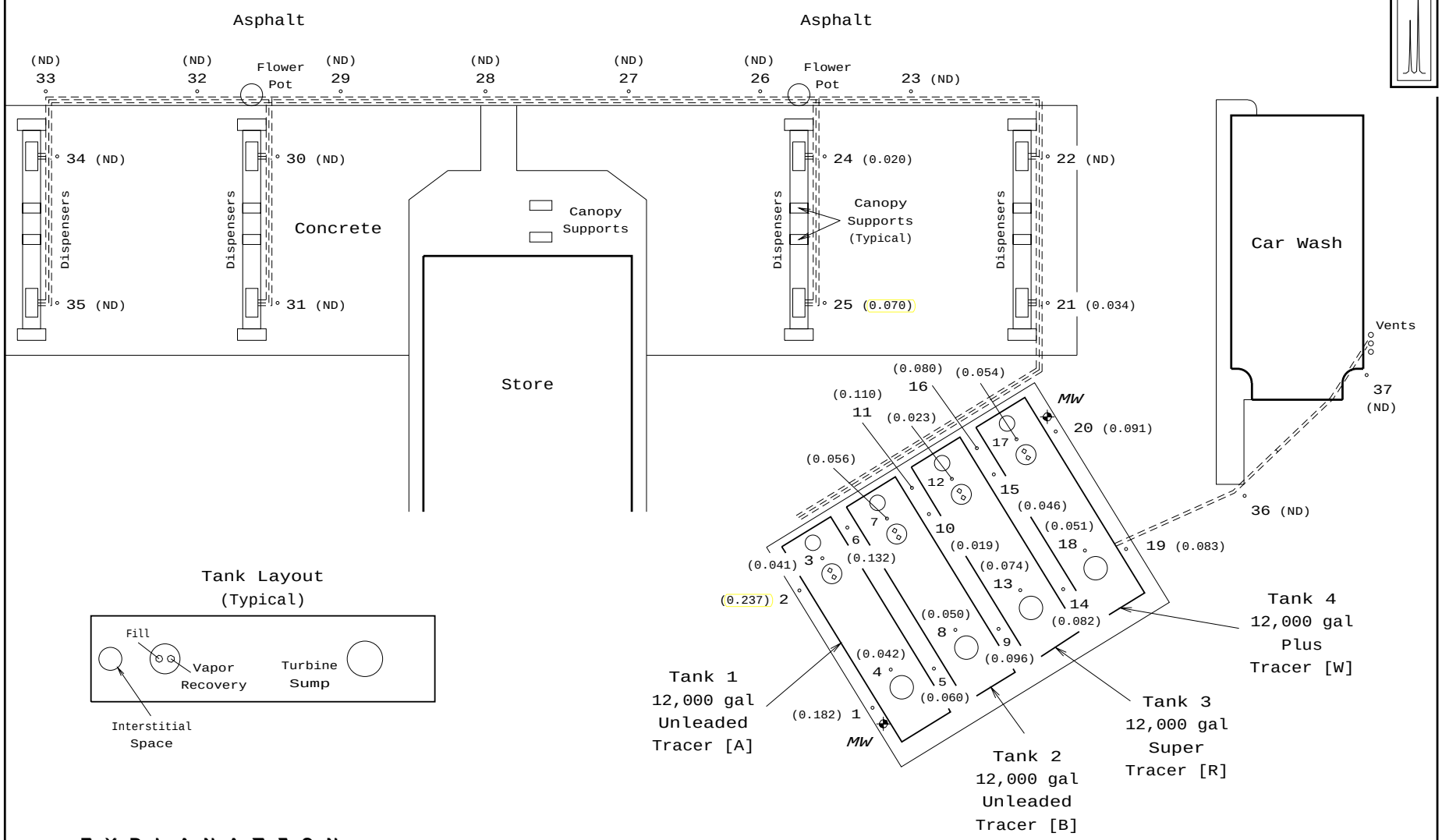
f e e t

File:RA06-1A Size:A
Arc:3665RA06 Date:02-20-02

Site TM 06

Tracer [A] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

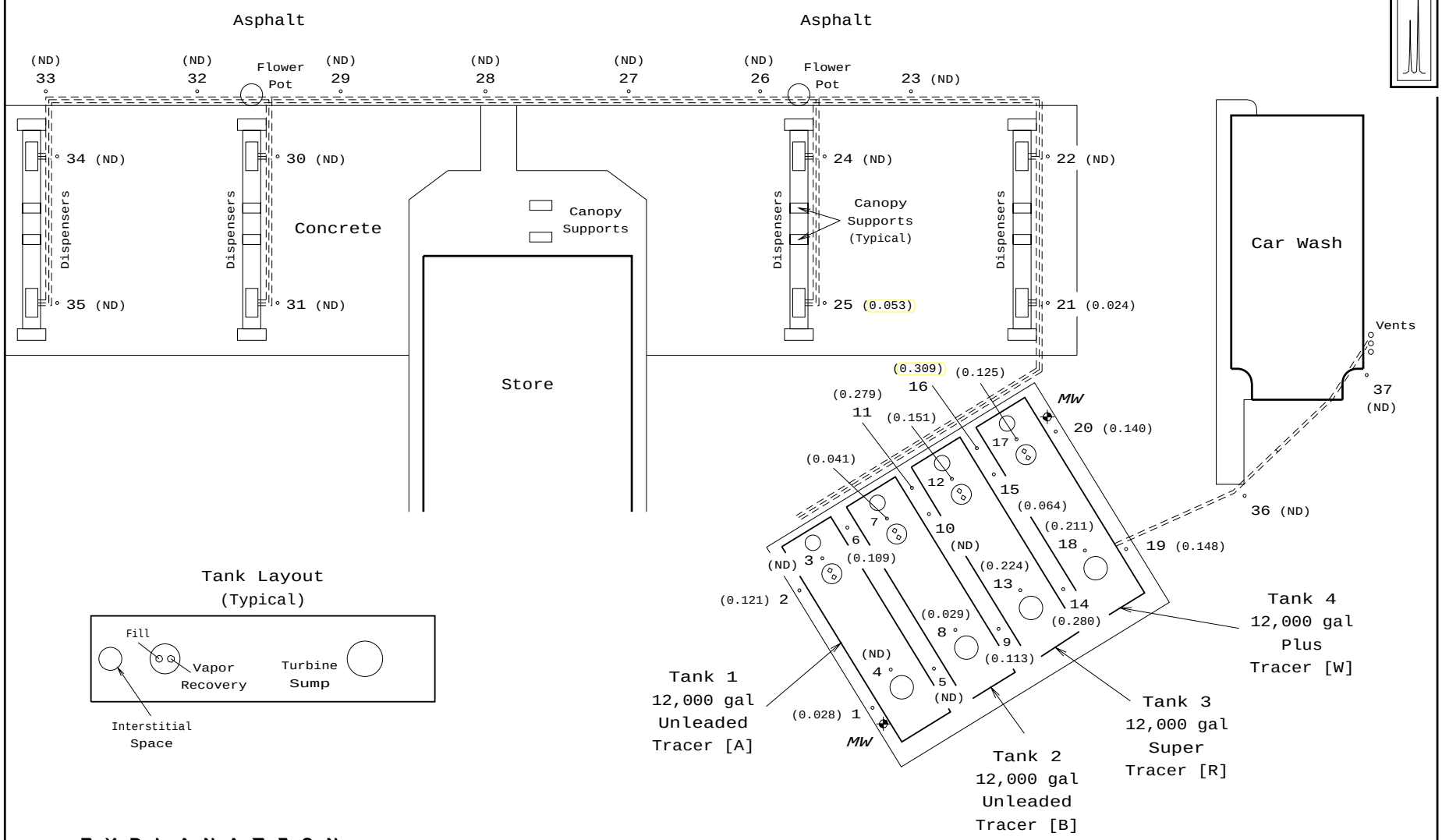
f e e t

Site TM 06

Tracer [B] Distribution

File:RA06-1B Size:A
Arc:3665RA06 Date:02-20-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer R Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

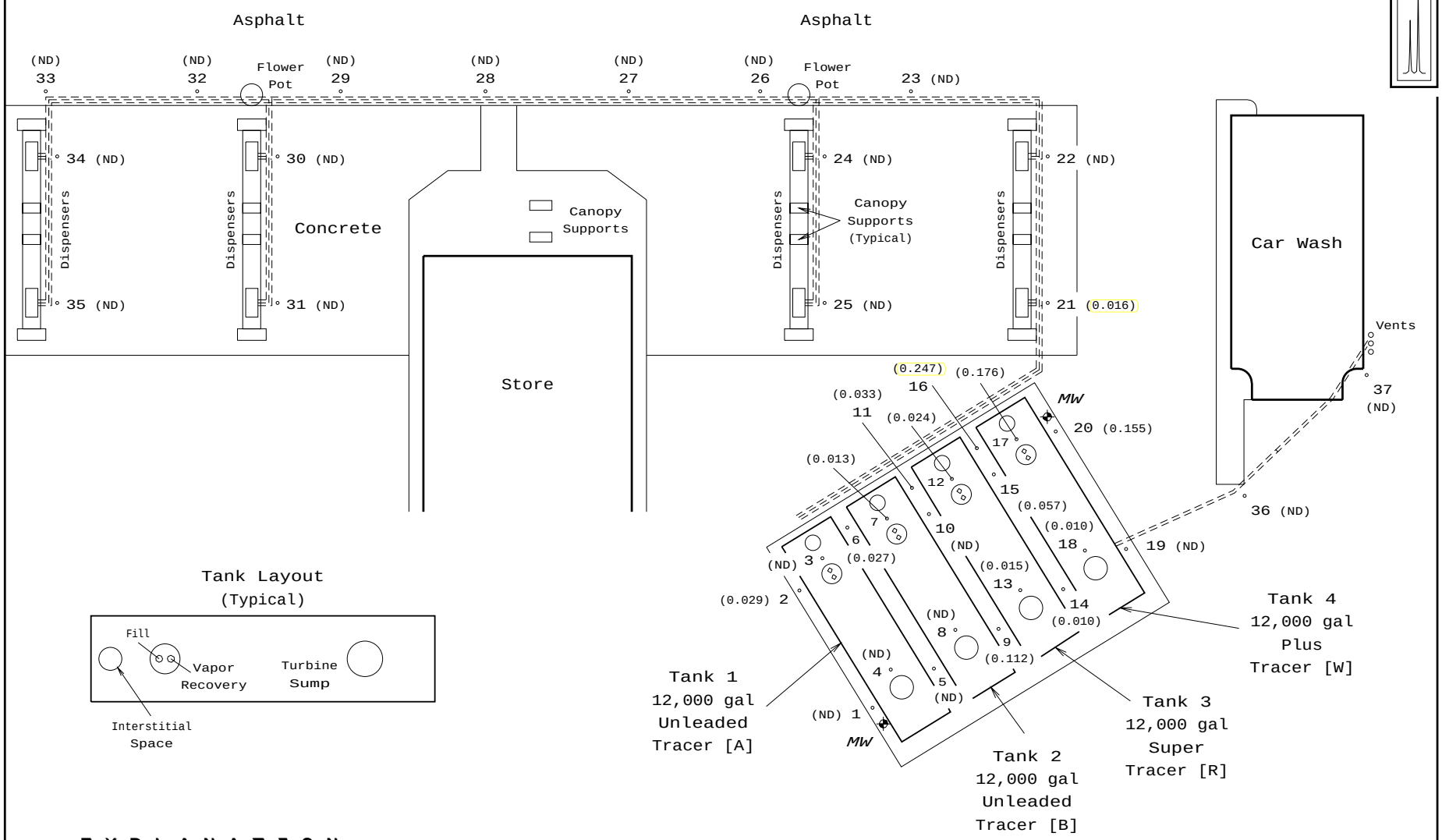
f e e t

File:RA06-1C Size:A
Arc:3665RA06 Date:02-20-02

Site TM 06

Tracer [R] Distribution

Tracer Research Corporation



30665U-0000

EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

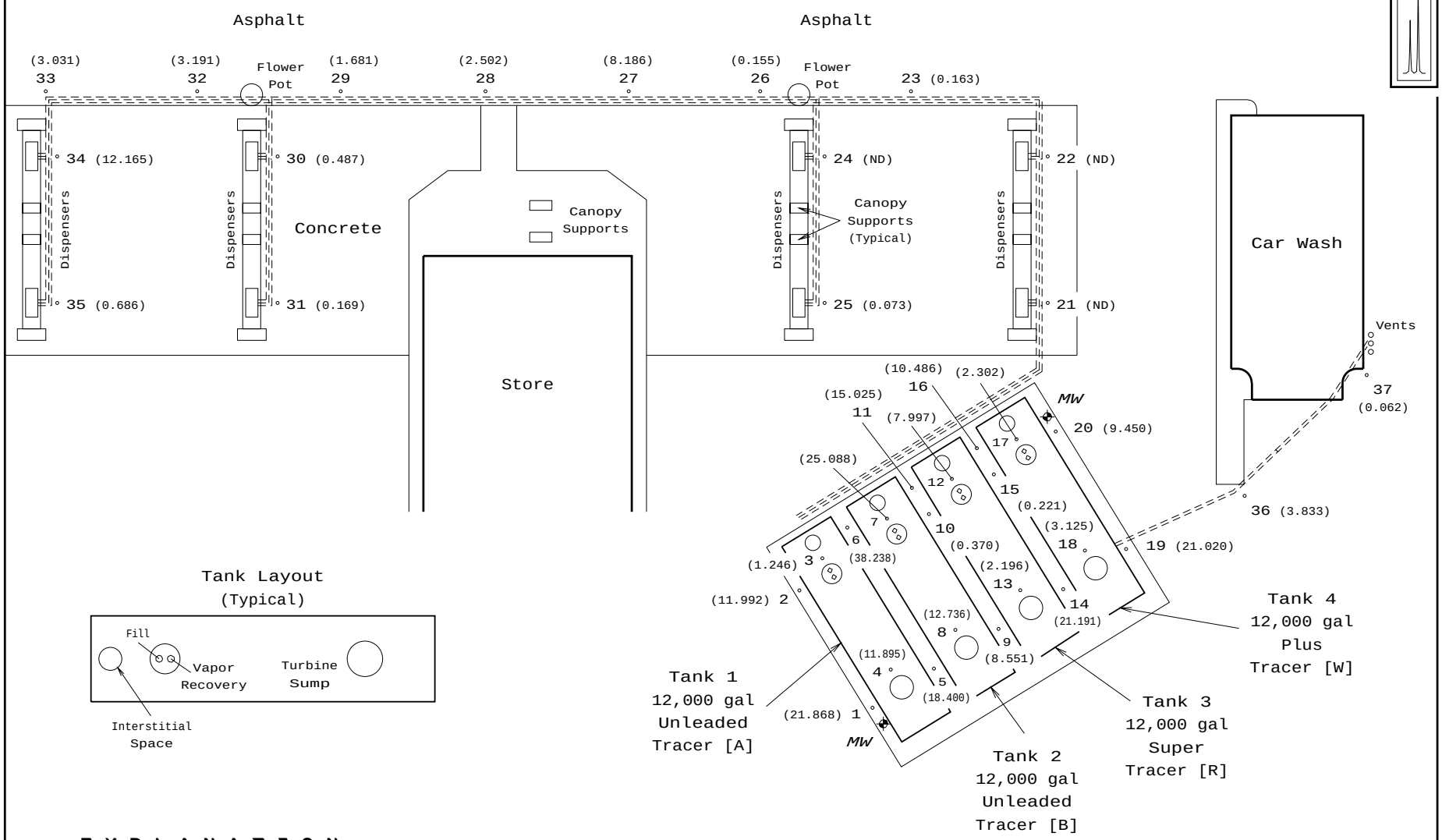
f e e t

File:RA06-1D Size:A
Arc:3665RA06 Date:02-20-02

Site TM 06

Tracer [W] Distribution

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
MW	Monitoring Well Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 10 20

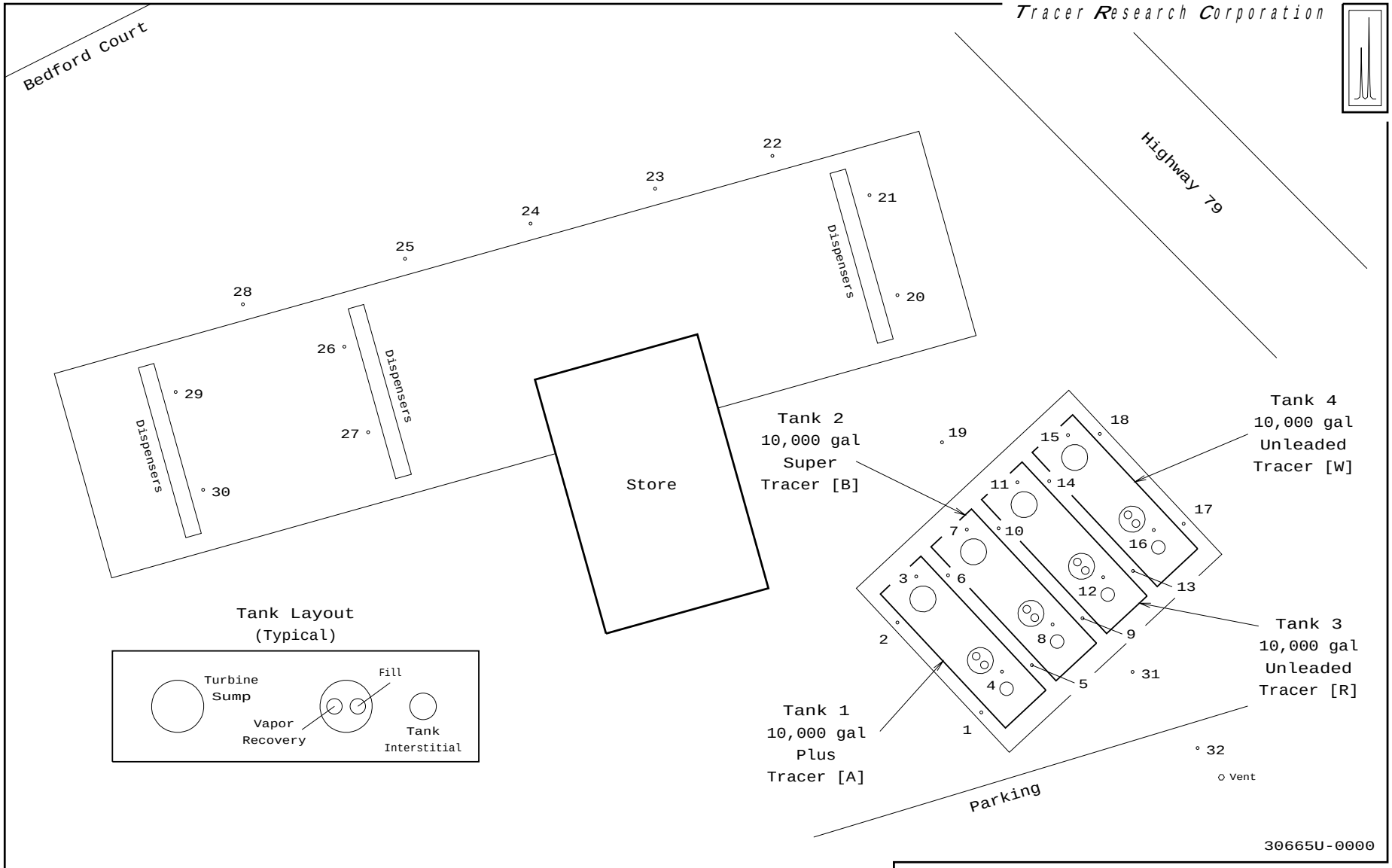
f e e t

File:RA06-1E Size:A
Arc:3665RA06 Date:02-20-02

Site TM 06

T V H C Distribution

Tracer Research Corporation



E X P L A N A T I O N

•1 Sampling Probe Location

------ Approximate Pipeline Location

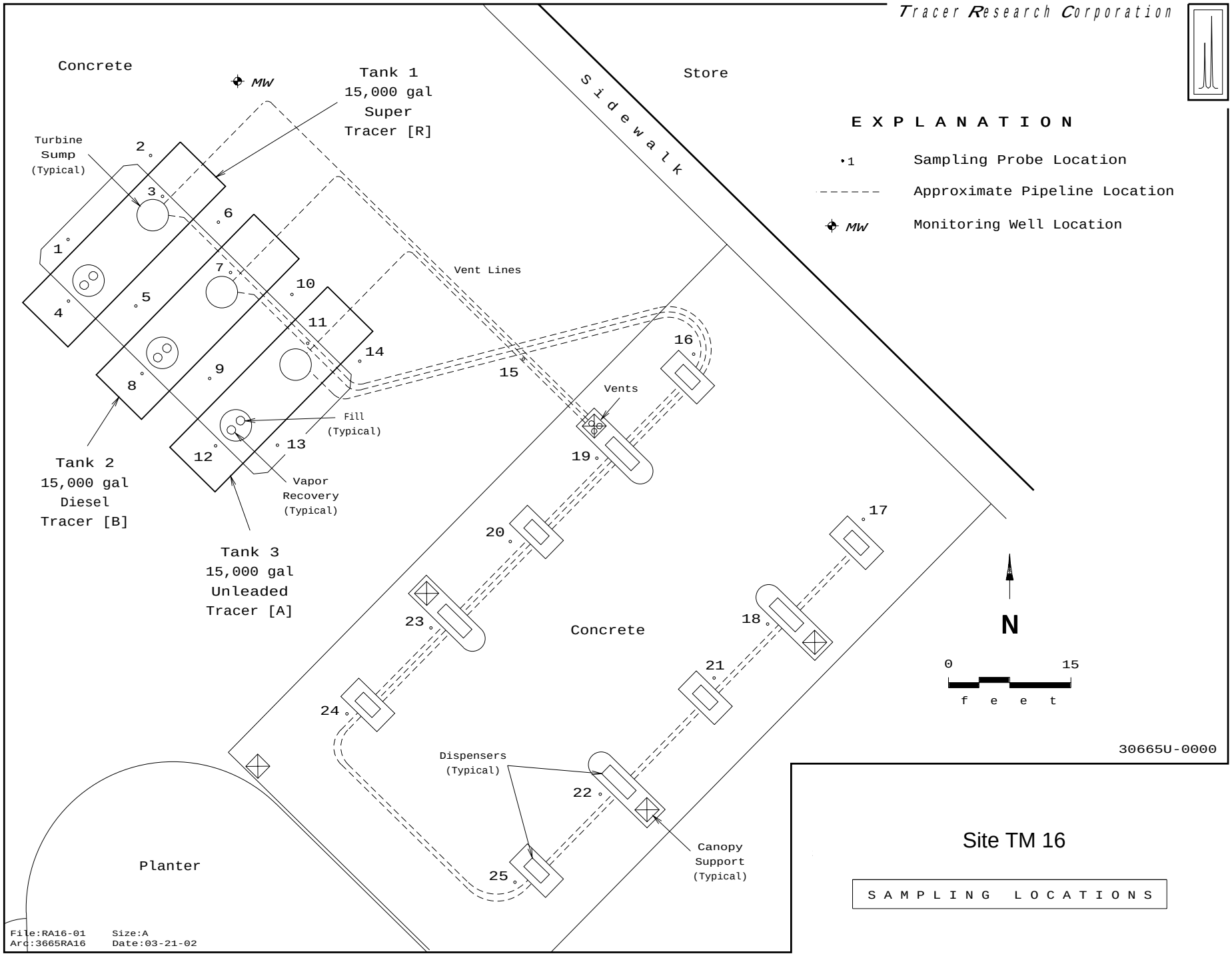
File:RA07-01 Size:A
Arc:3665RA07 Date:02-20-02

N

0 10 20
f e e t

Site TM 07

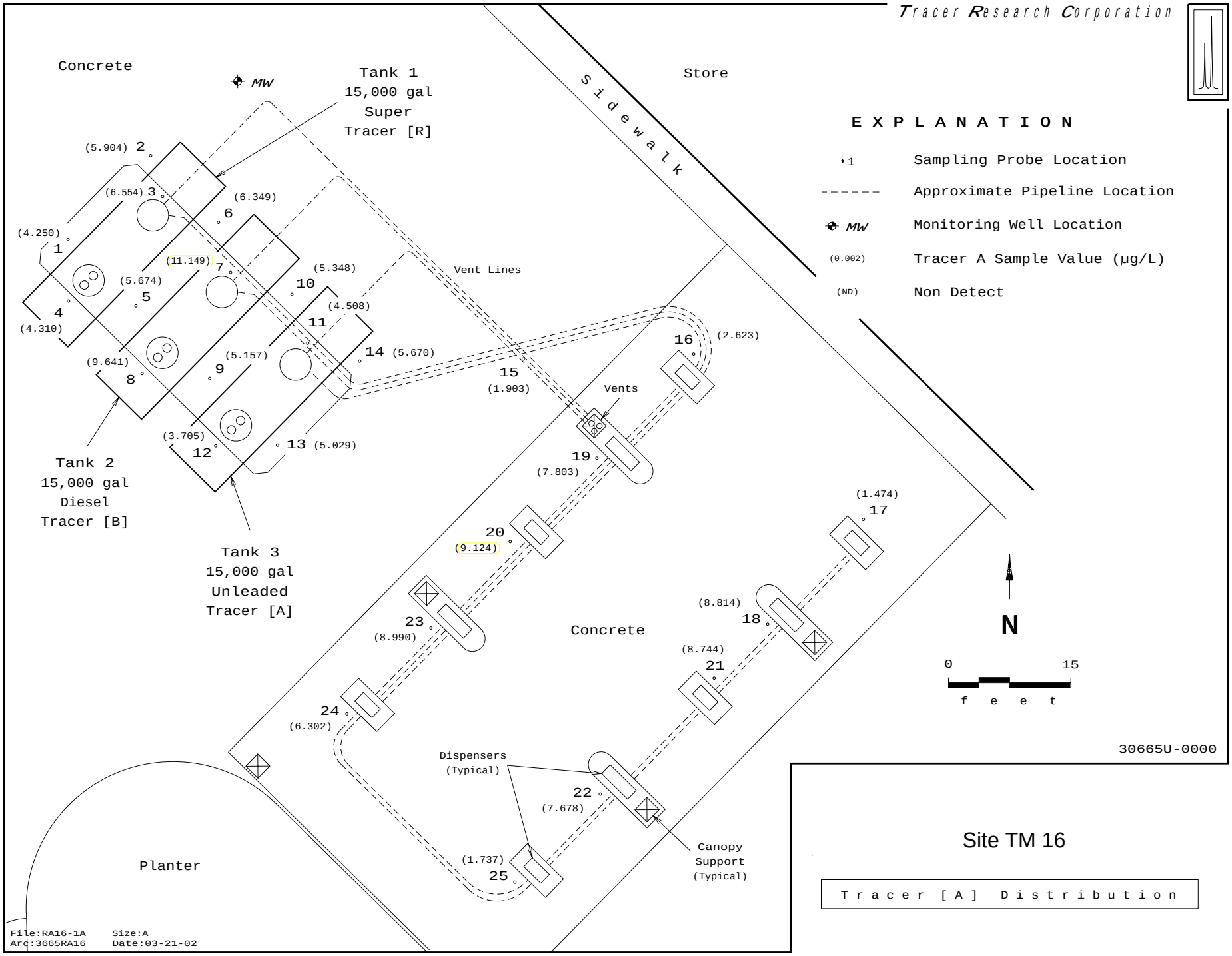
S A M P L I N G L O C A T I O N S



Site TM 16

SAMPLING LOCATIONS

Tracer Research Corporation

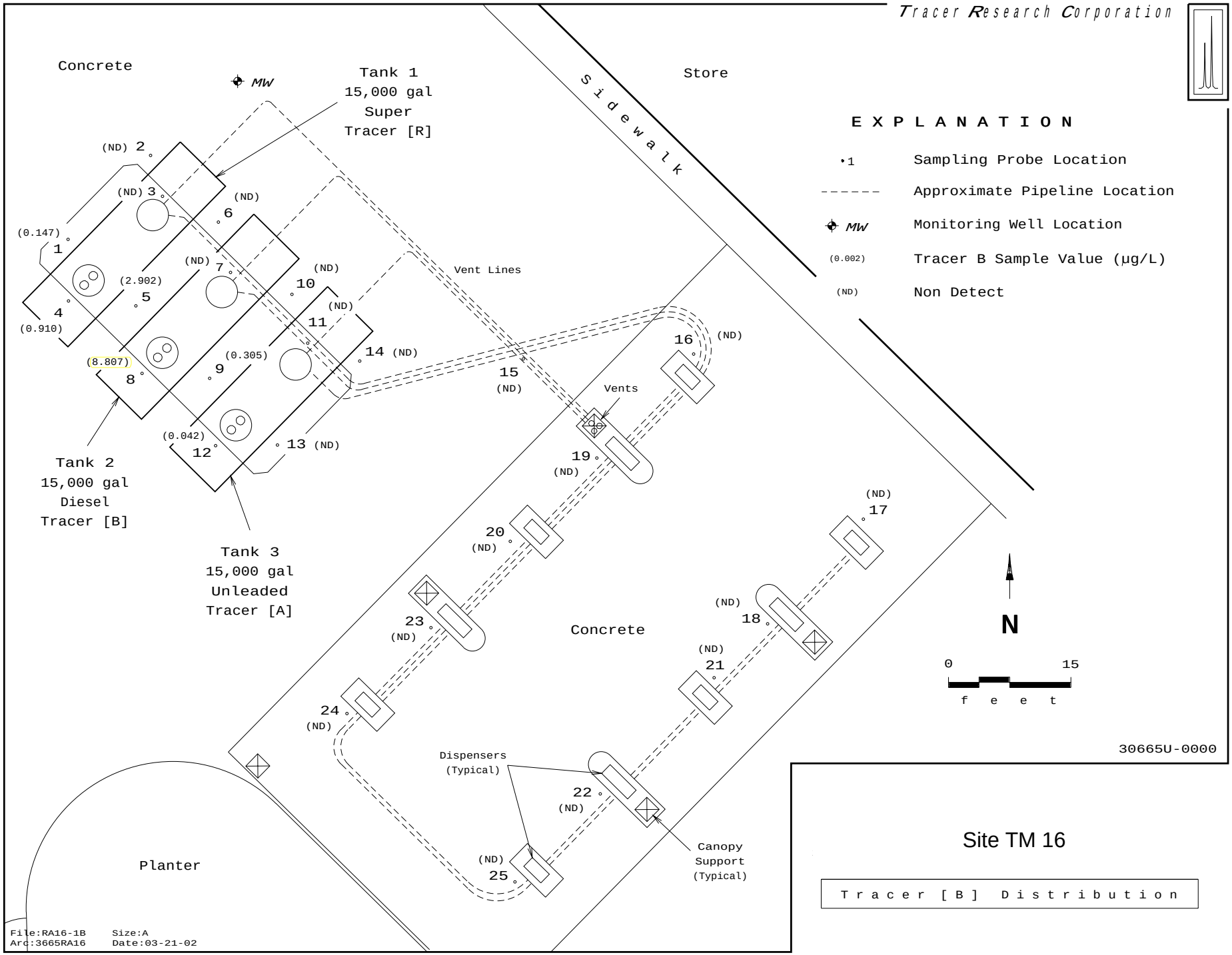


Site TM 16

Tracer [A] Distribution

File:RA16-1A Size:A
Arc:3665RA16 Date:03-21-02

Tracer Research Corporation

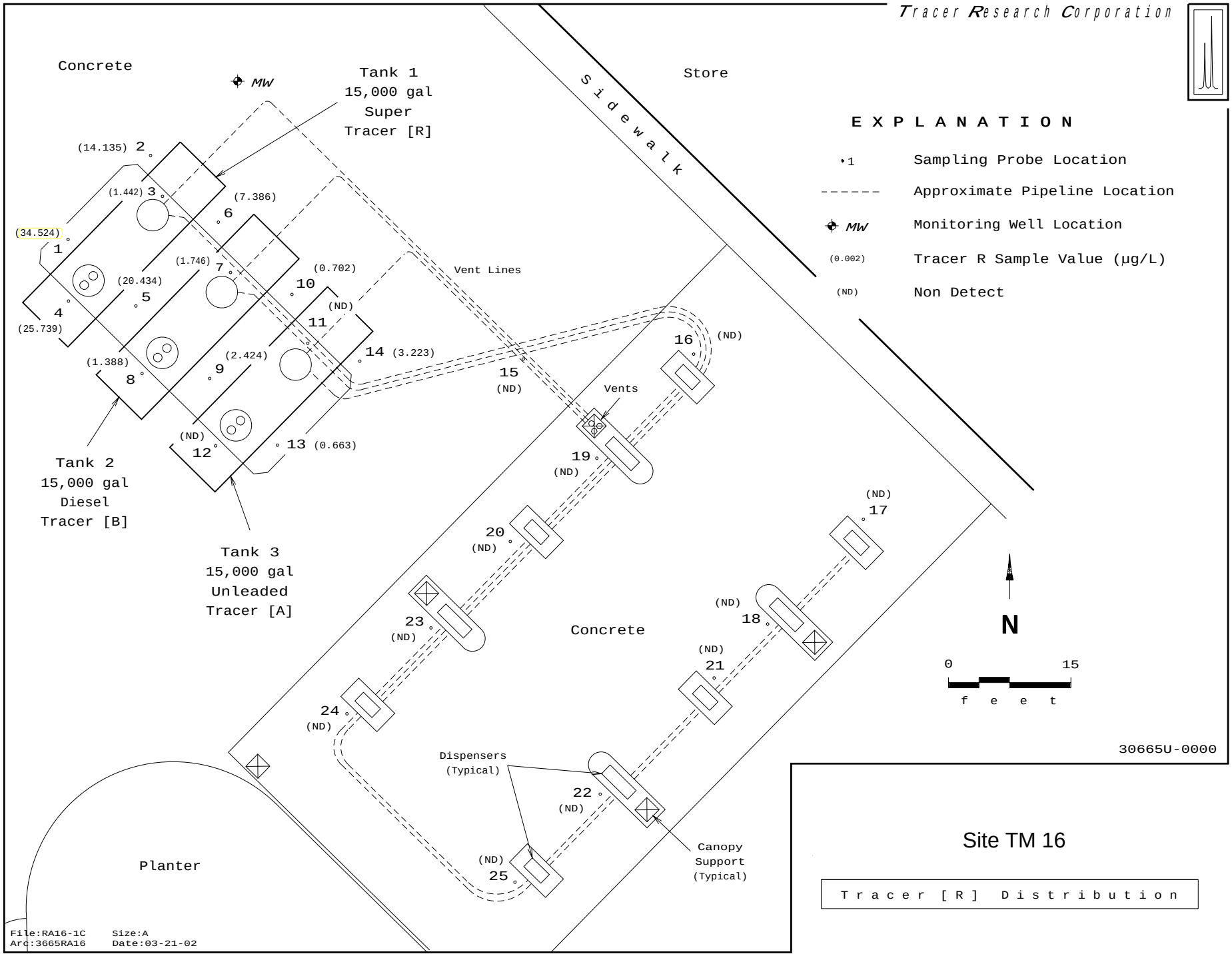


Site TM 16

Tracer [B] Distribution

File:RA16-1B Size:A
Arc:3665RA16 Date:03-21-02

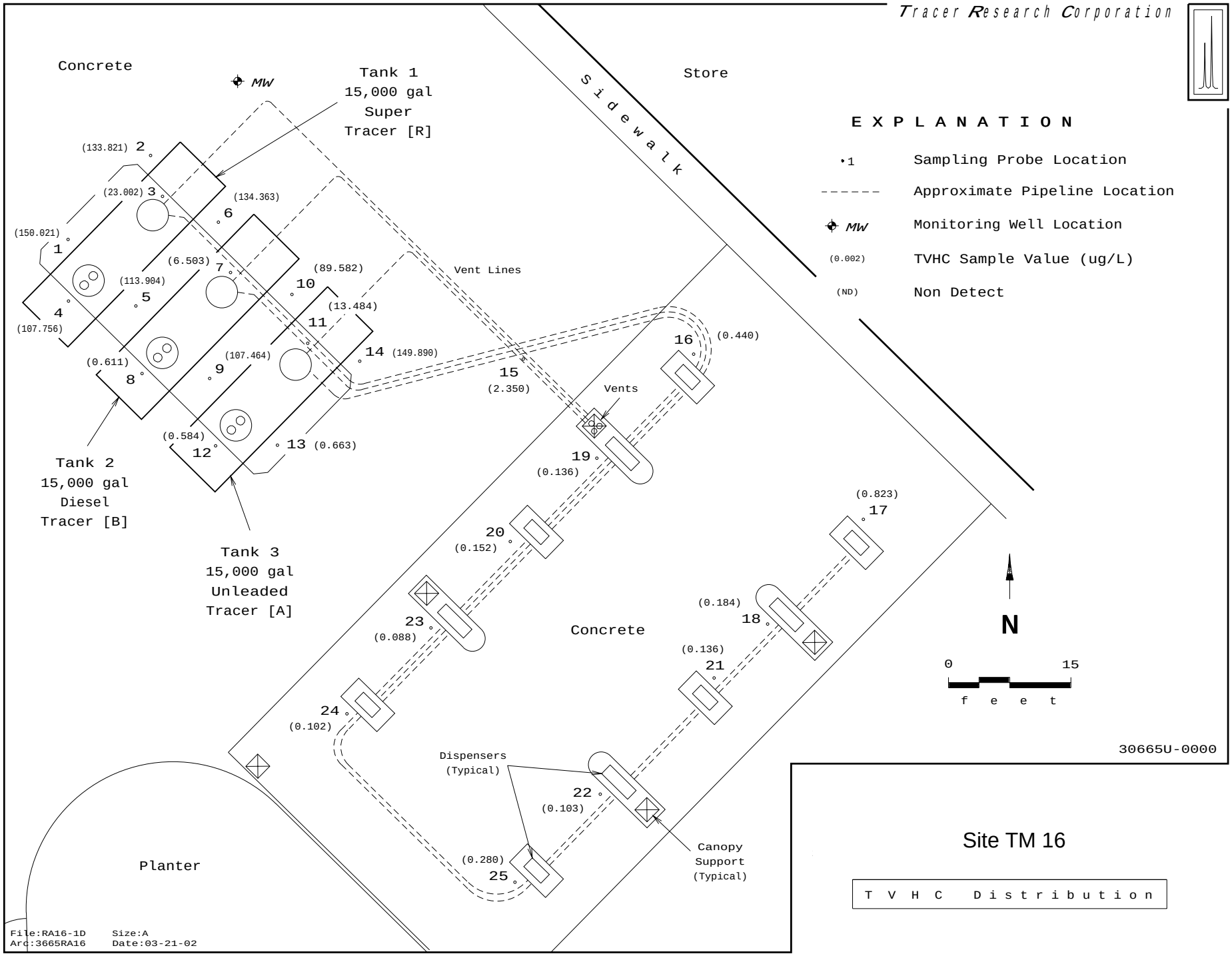
Tracer Research Corporation



Site TM 16

Tracer [R] Distribution

Tracer Research Corporation

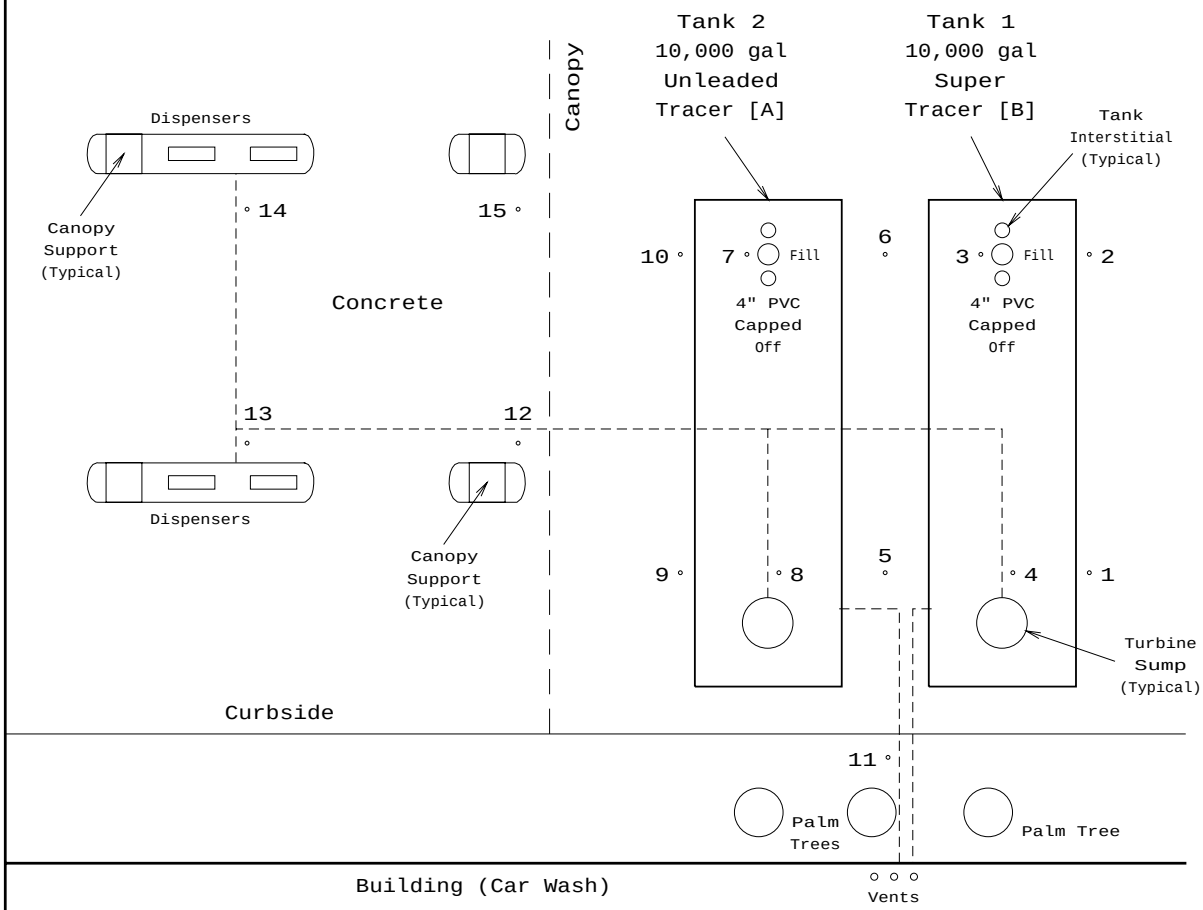


Site TM 16

TVHC Distribution

File:RA16-1D Size:A
Arc:3665RA16 Date:03-21-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location

N

0 5 10

f e e t

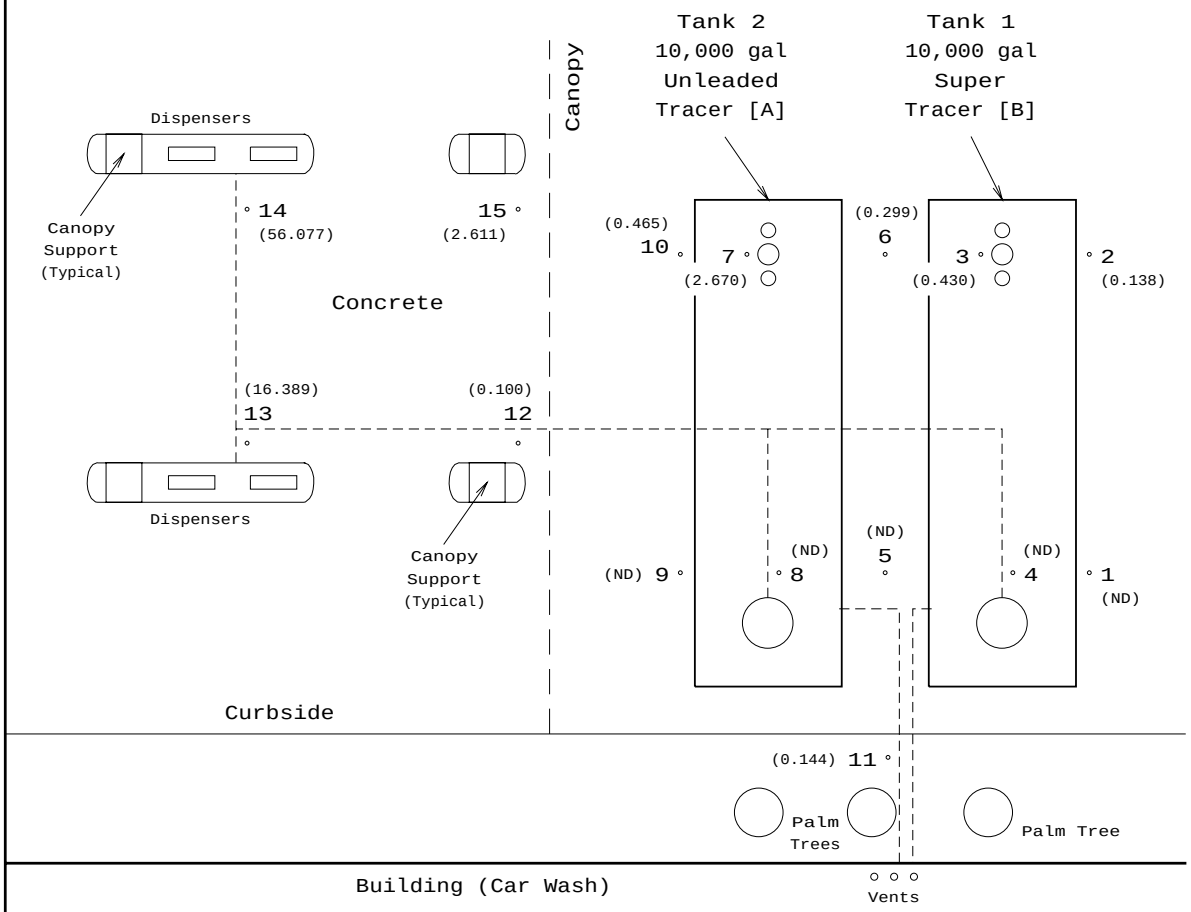
30665U-0000

Site TM 17

SAMPLING LOCATIONS

File:RA17-01 Size:A
Arc:3665RA17 Date:03-11-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 5 10

f e e t

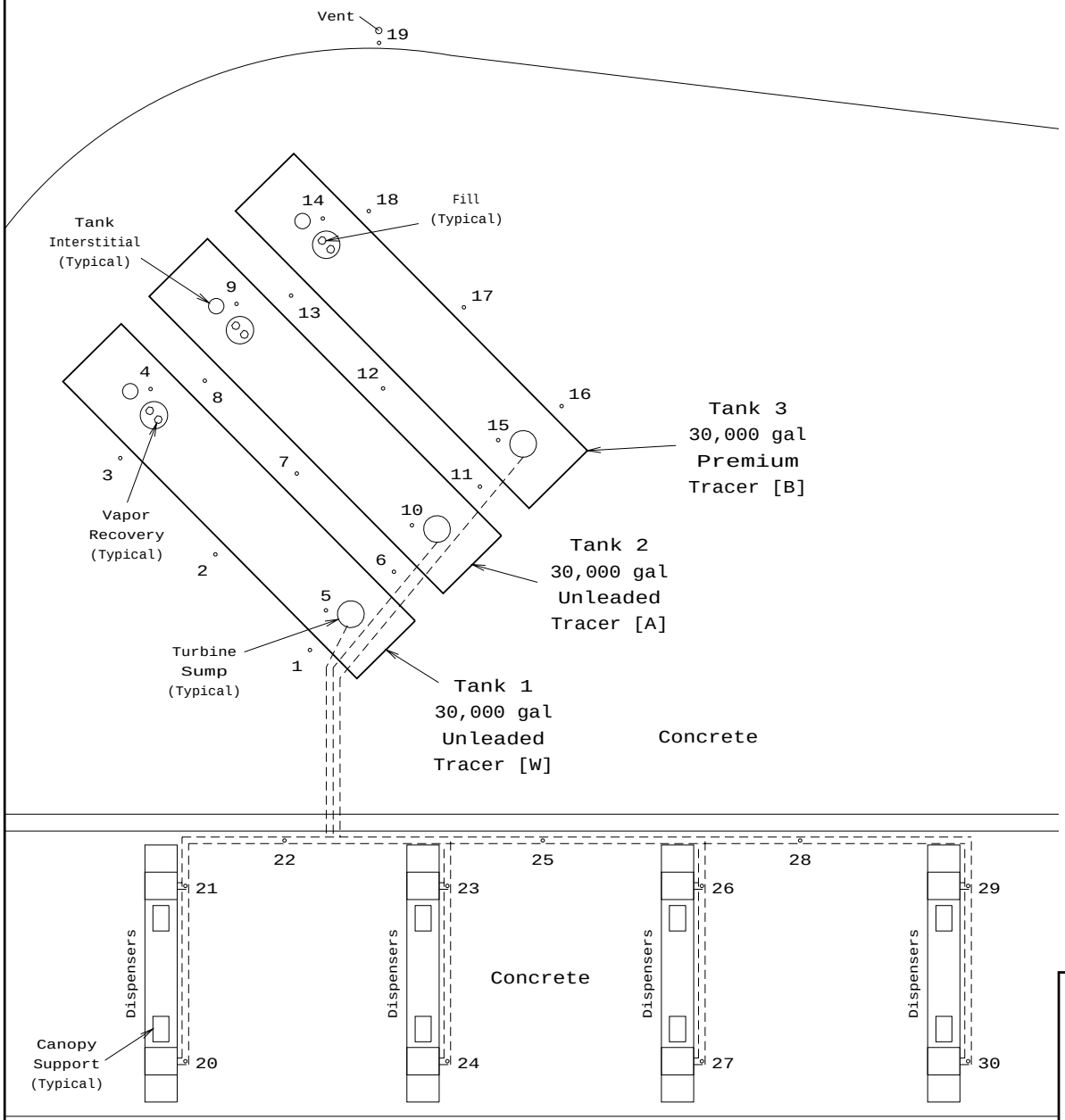
30665U-0000

Site TM 17

T V H C Distribution

File:RA17-1A Size:A
Arc:3665RA17 Date:03-11-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location

N

0 10 20

f e e t

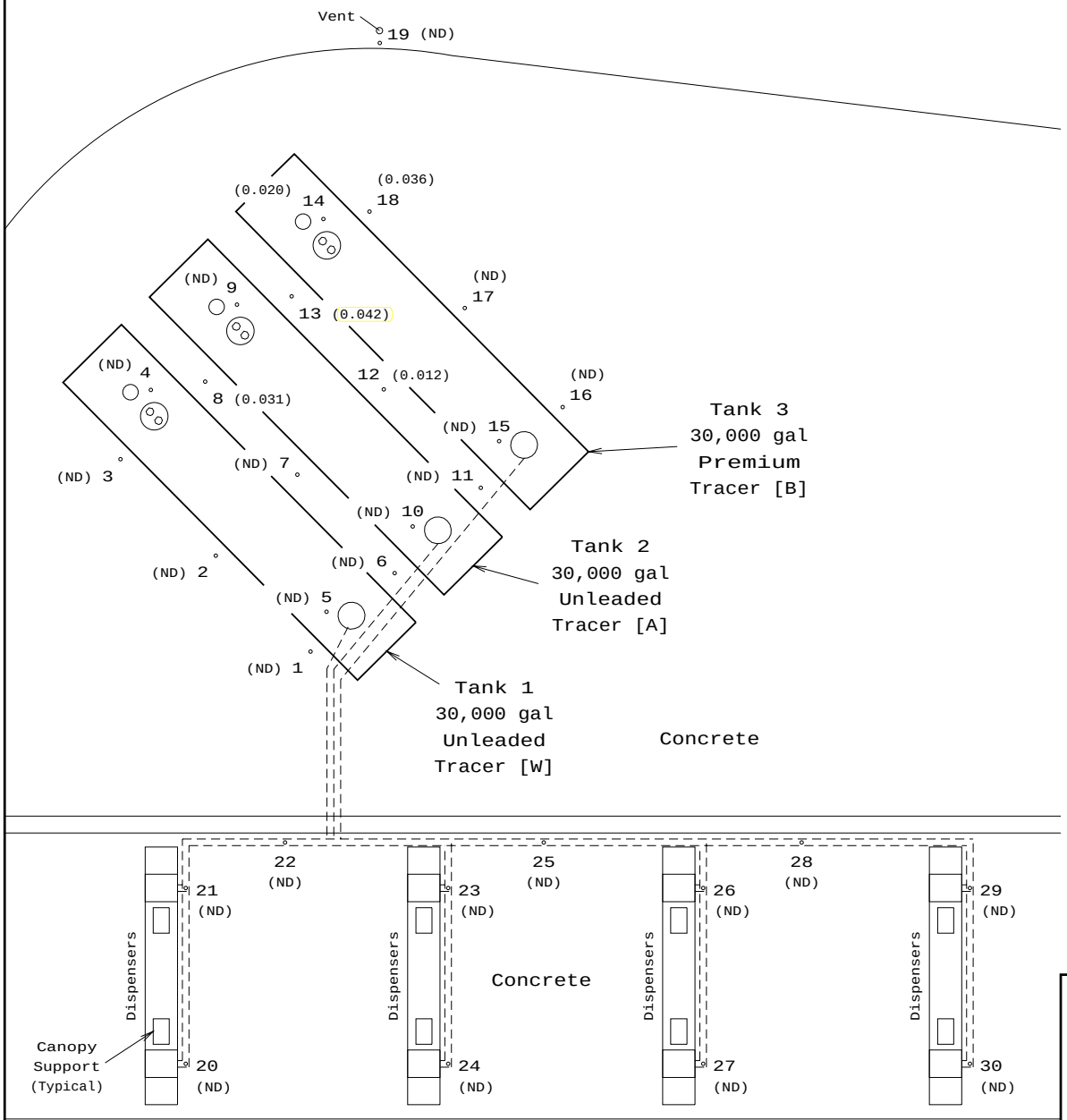
30665U-0000

Site TM 18

SAMPLING LOCATIONS

File:RA18-01 Size:A
Arc:3665RA18 Date:03-13-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20
feet

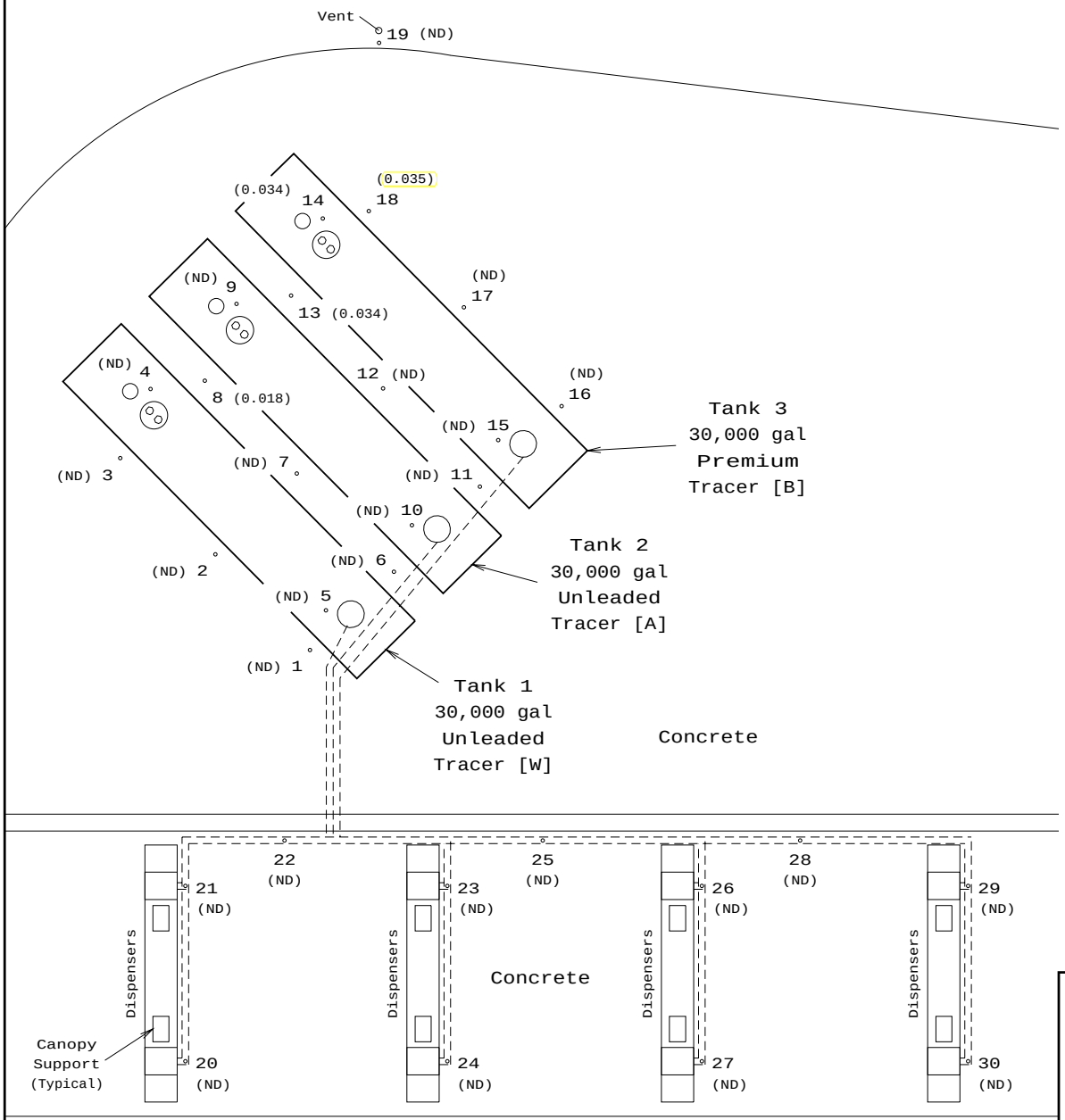
30665U-0000

Site TM 18

Tracer [A] Distribution

File:RA18-1A Size:A
Arc:3665RA18 Date:03-13-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20
feet

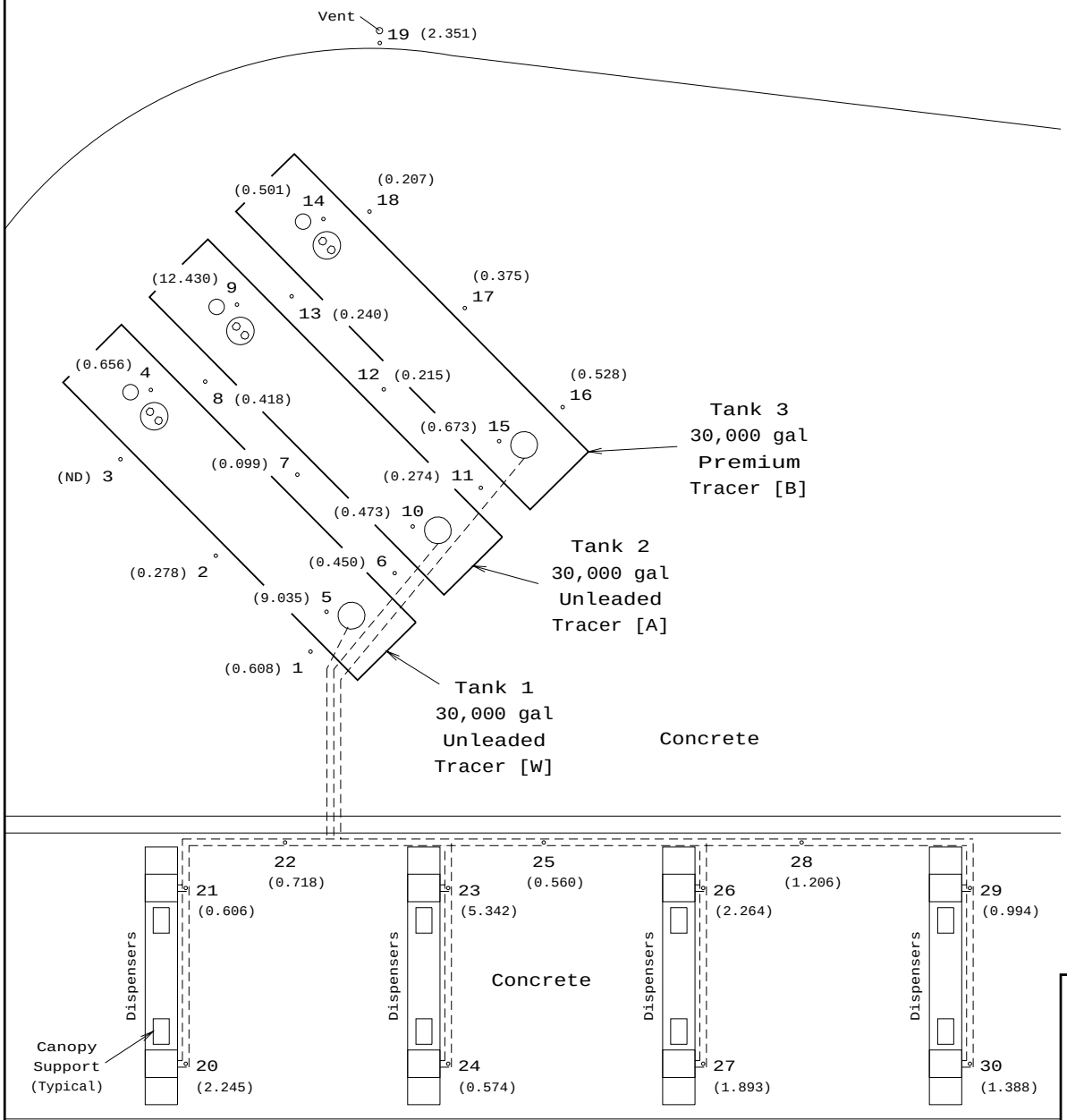
30665U-0000

Site TM 18

Tracer [B] Distribution

File:RA18-1B Size:A
Arc:3665RA18 Date:03-13-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 10 20
feet

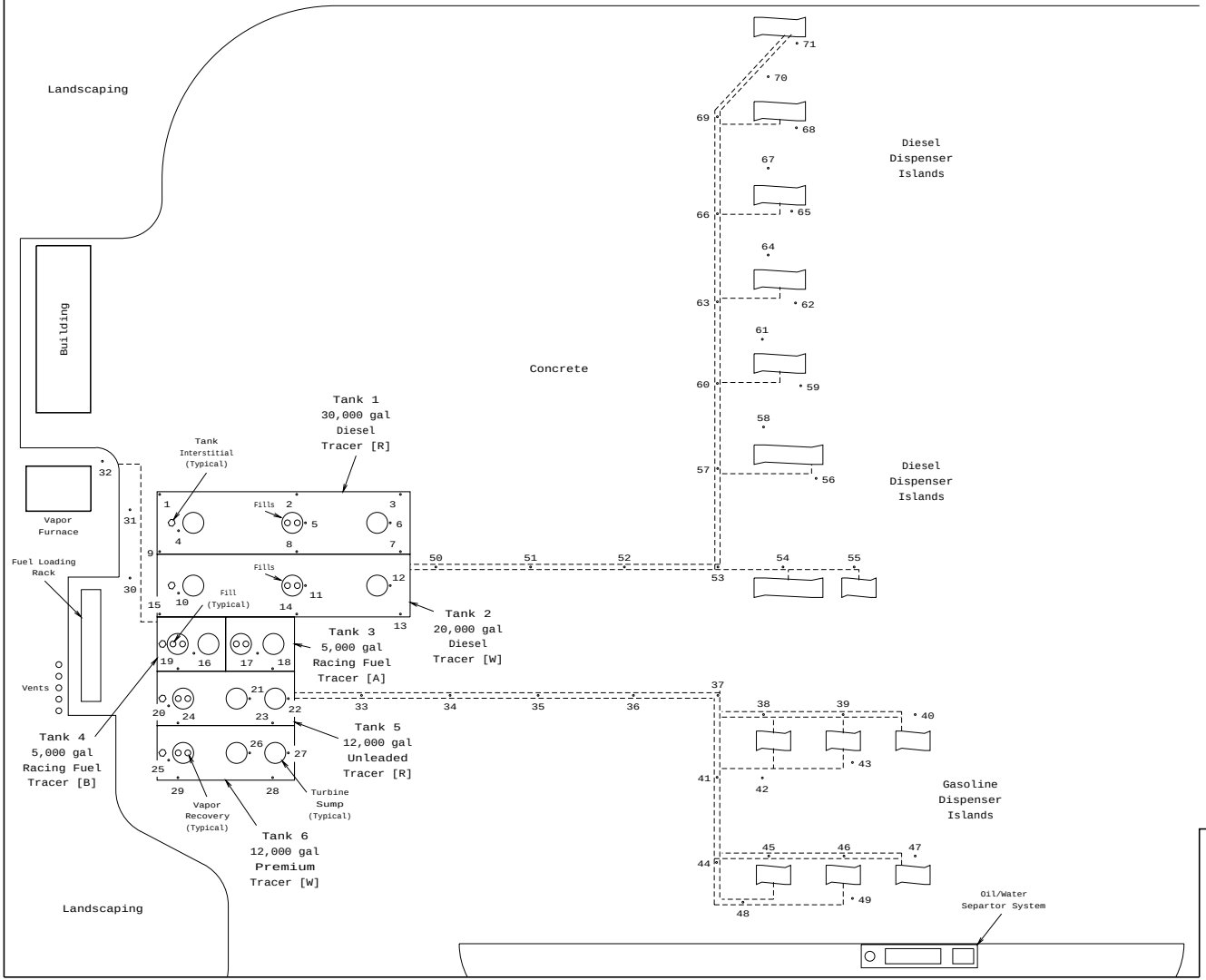
30665U-0000

Site TM 18

T V H C D i s t r i b u t i o n

File:RA18-1C Size:A
Arc:3665RA18 Date:03-13-02

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
--------	Approximate Pipeline Location

N

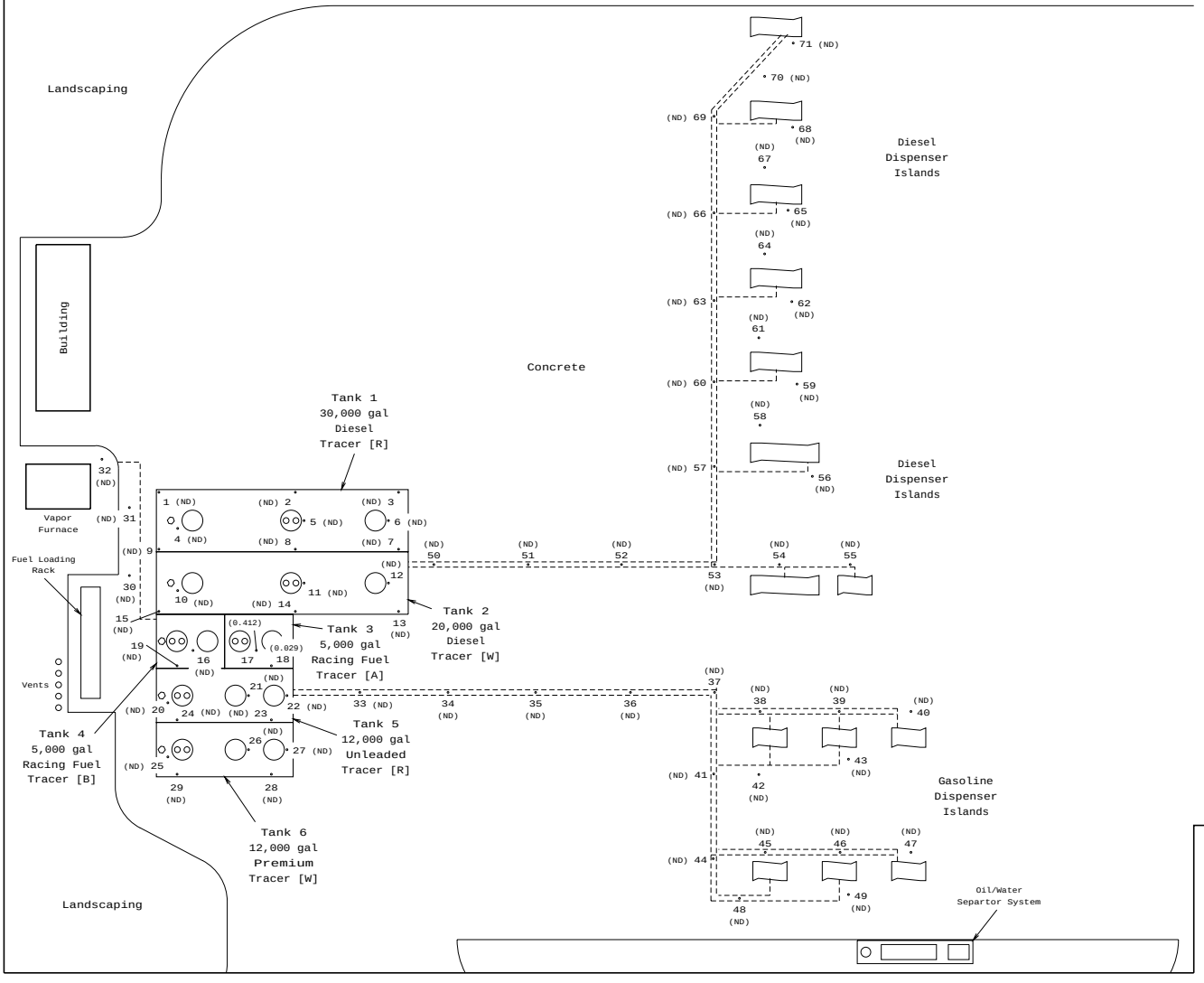
0 10 20
f e e t

30665U-0000

Site TM 19

S A M P L I N G L O C A T I O N S

Tracer Research Corporation



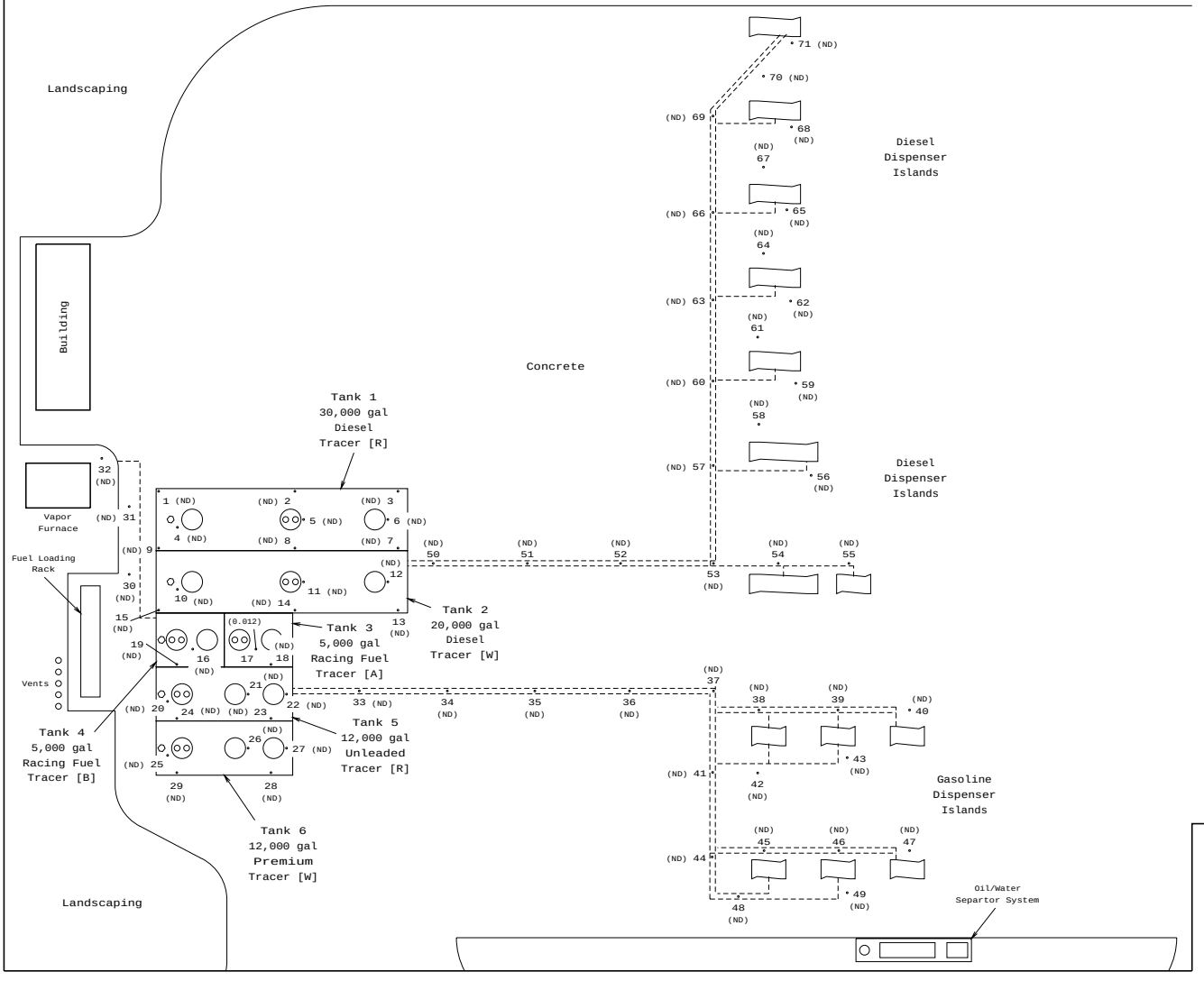
EXPLANATION

•1	Sampling Probe Location
--------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

30665U-0000

Site TM 19

Tracer [A] Distribution



EXPLANATION

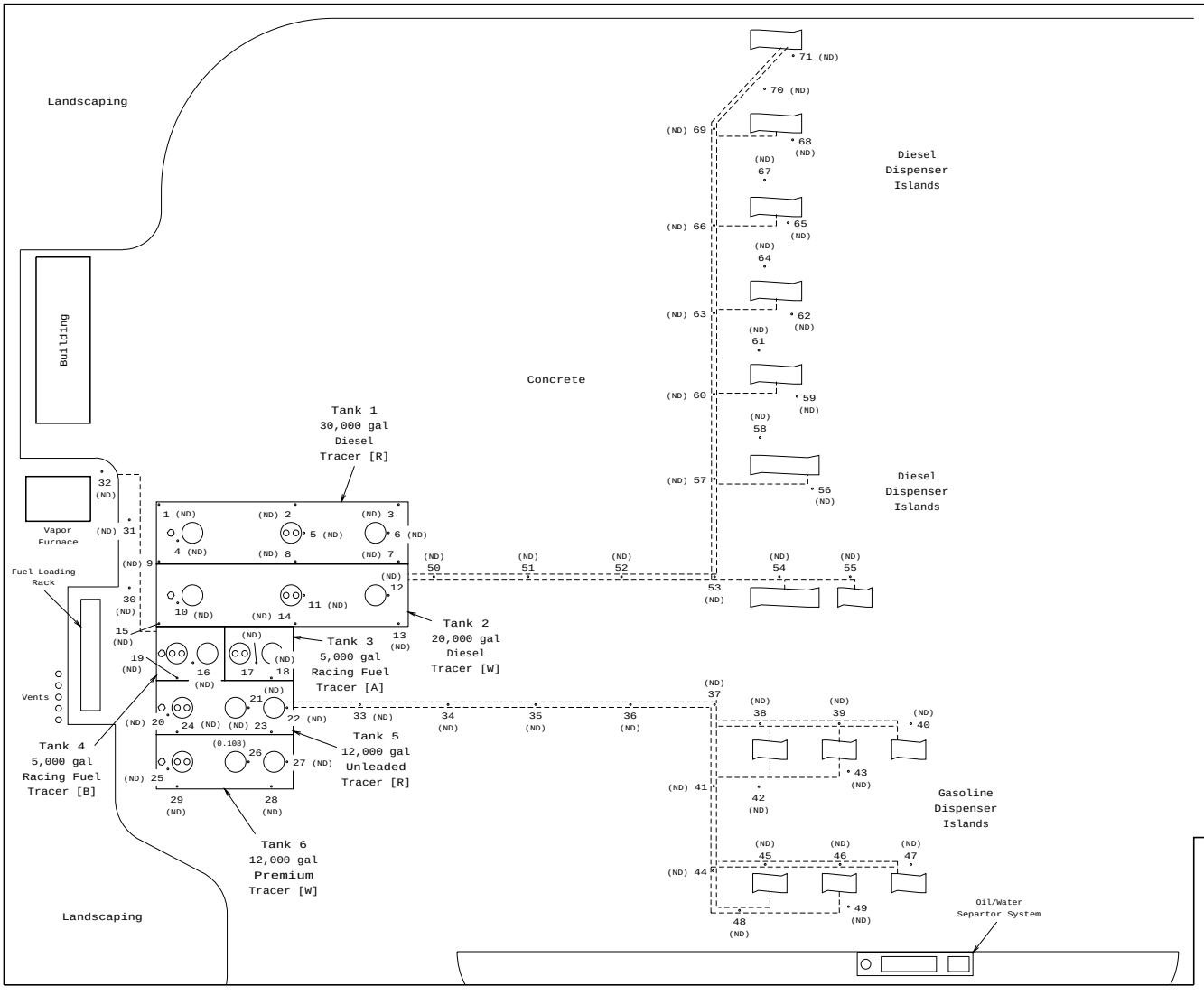
•1	Sampling Probe Location
- - - - - -	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

30665U-0000

Site TM 19

Tracer [B] Distribution

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
- - - - - -	Approximate Pipeline Location
(0.002)	Tracer W Sample Value (µg/L)
(ND)	Non Detect

N

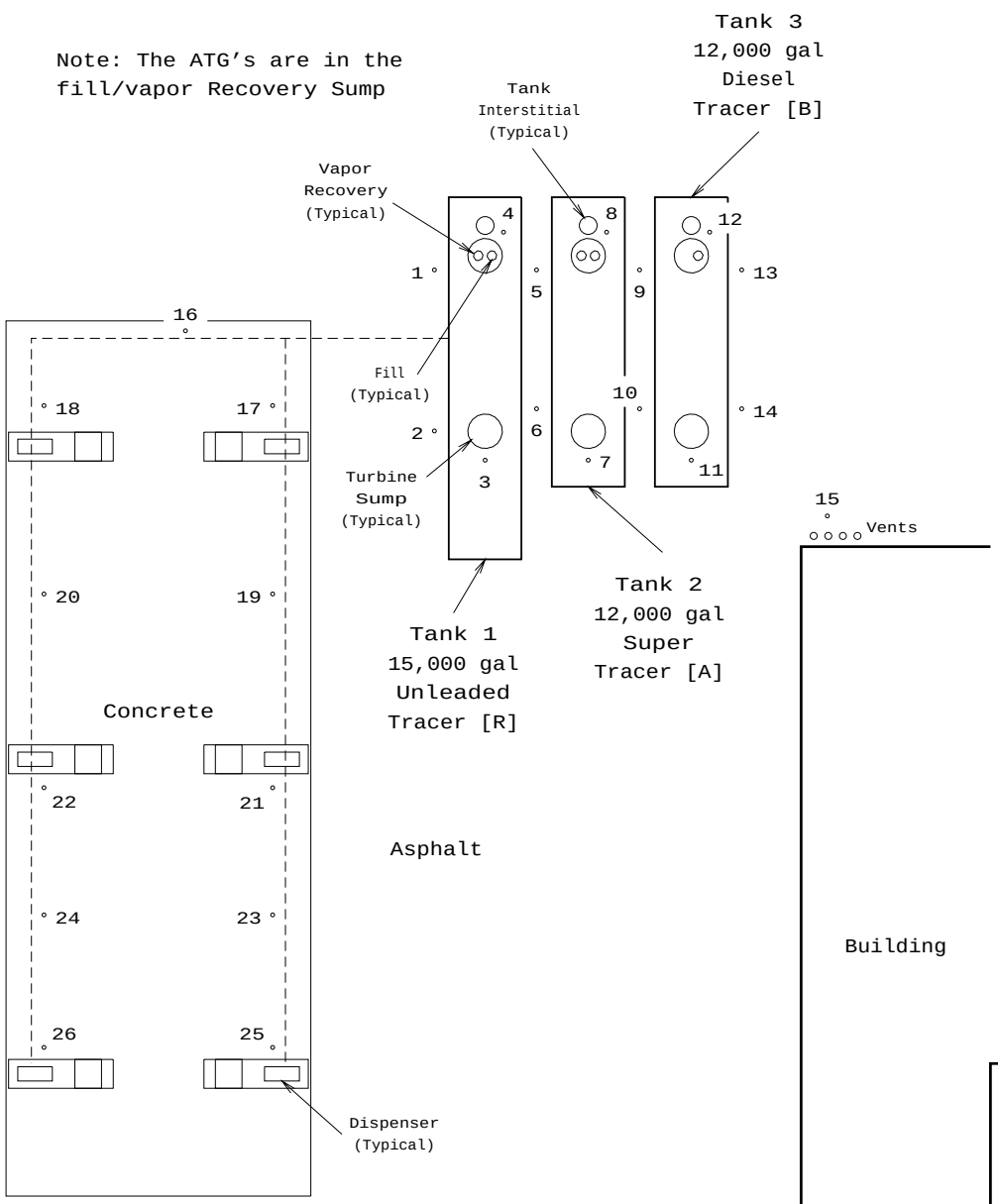
0 10 20
f e e t

30665U-0000

Site TM 19

Tracer [W] Distribution

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
------	Approximate Pipeline Location

N

0 10 20

f e e t

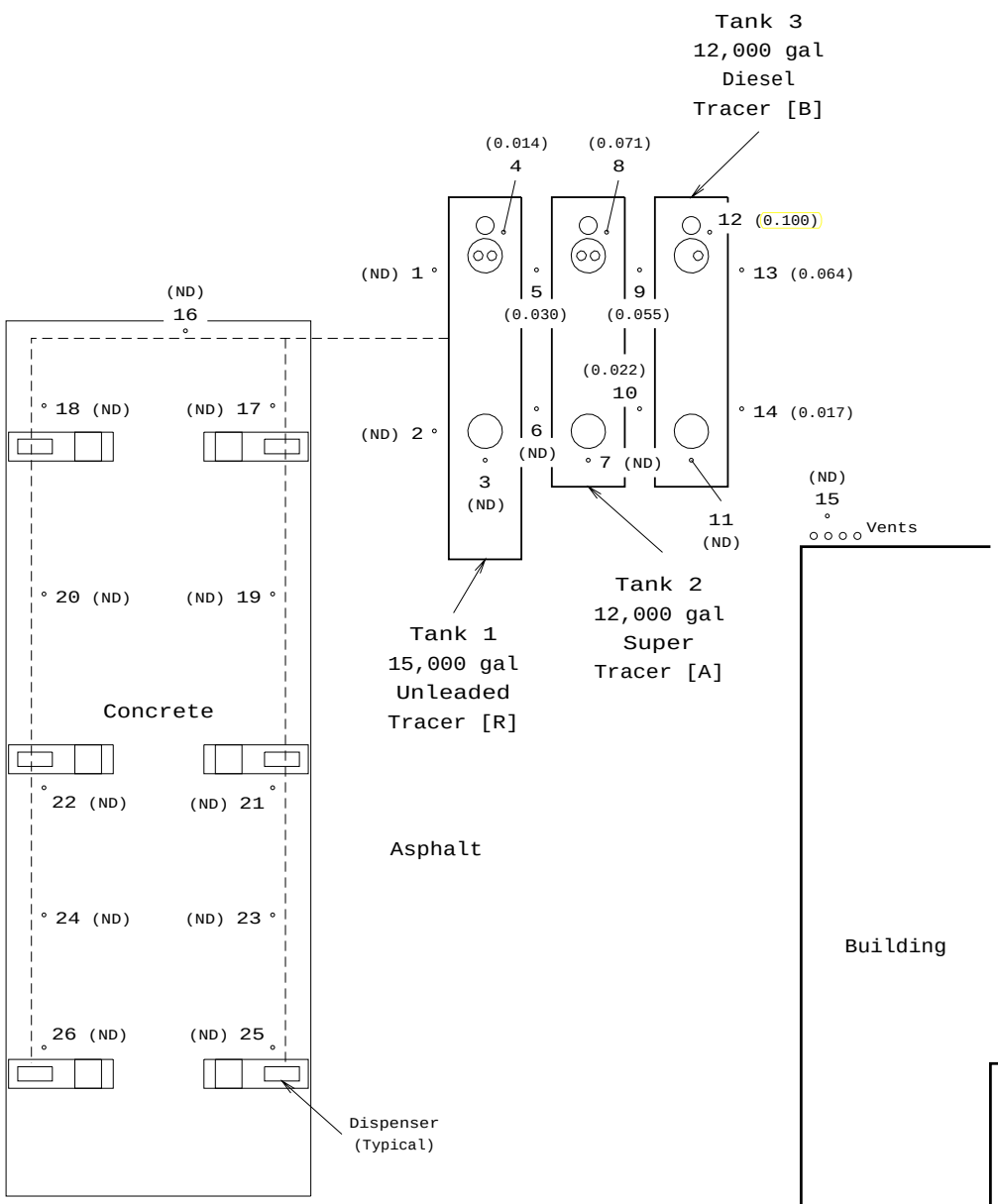
30665U-0000

Site TM 21

S A M P L I N G L O C A T I O N S

File:RA21-01 Size:A
Arc:3665RA21 Date:03-19-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

N

0 10 20

f e e t

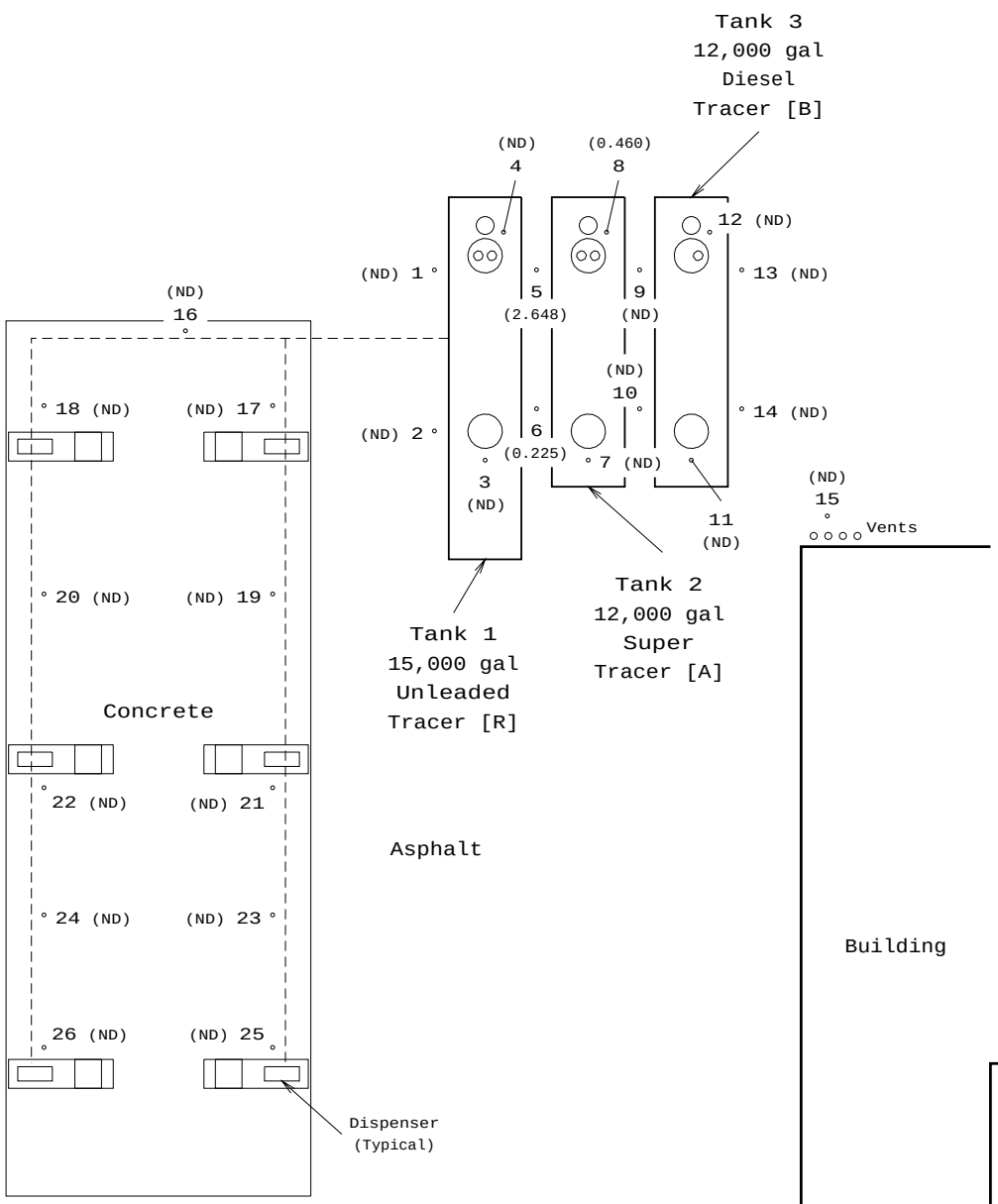
30665U-0000

Site TM 21

Tracer [A] Distribution

File:RA21-1A Size:A
Arc:3665RA21 Date:03-19-02

Tracer Research Corporation



Building

E X P L A N A T I O N

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

N

0 10 20

f e e t

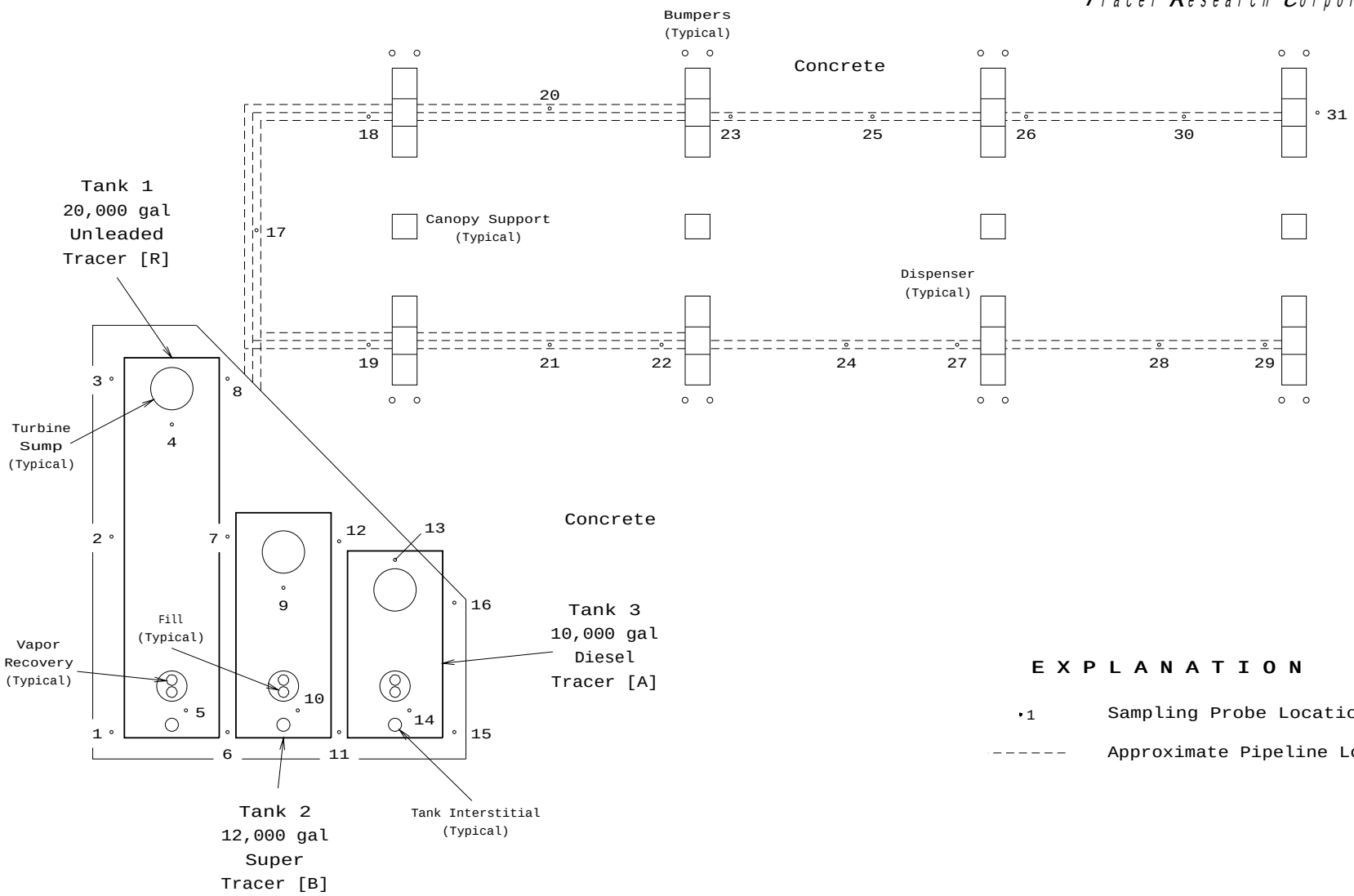
30665U-0000

Site TM 21

T V H C D i s t r i b u t i o n

File:RA21-1B Size:A
Arc:3665RA21 Date:03-19-02

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
------	Approximate Pipeline Location

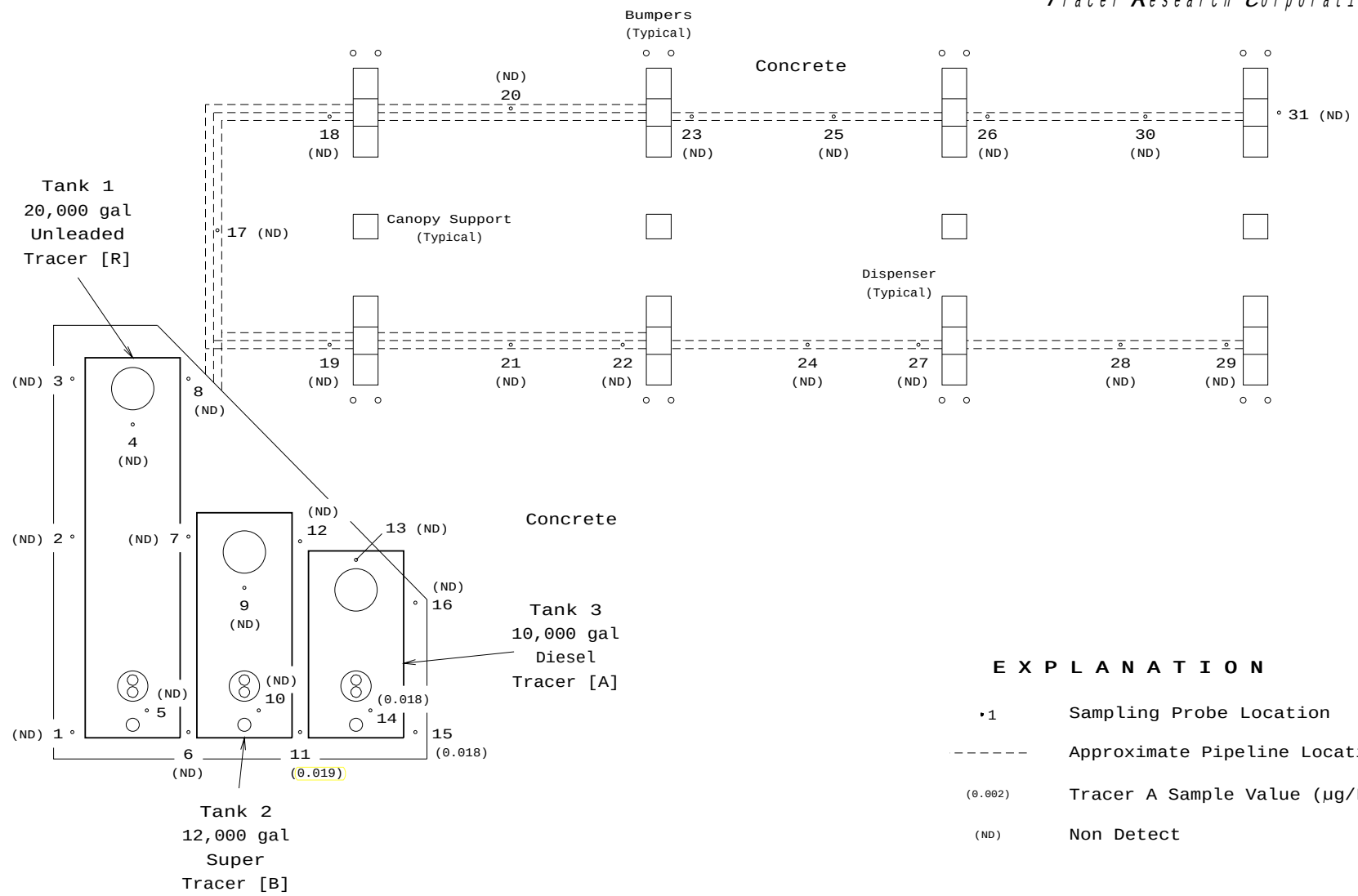
30665U-0000

File:RA23-01 Size:A
Arc:3665RA23 Date:03-12-02

Site TM 23

S A M P L I N G L O C A T I O N S

Tracer Research Corporation



E X P L A N A T I O N

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer A Sample Value (µg/L)
(ND)	Non Detect

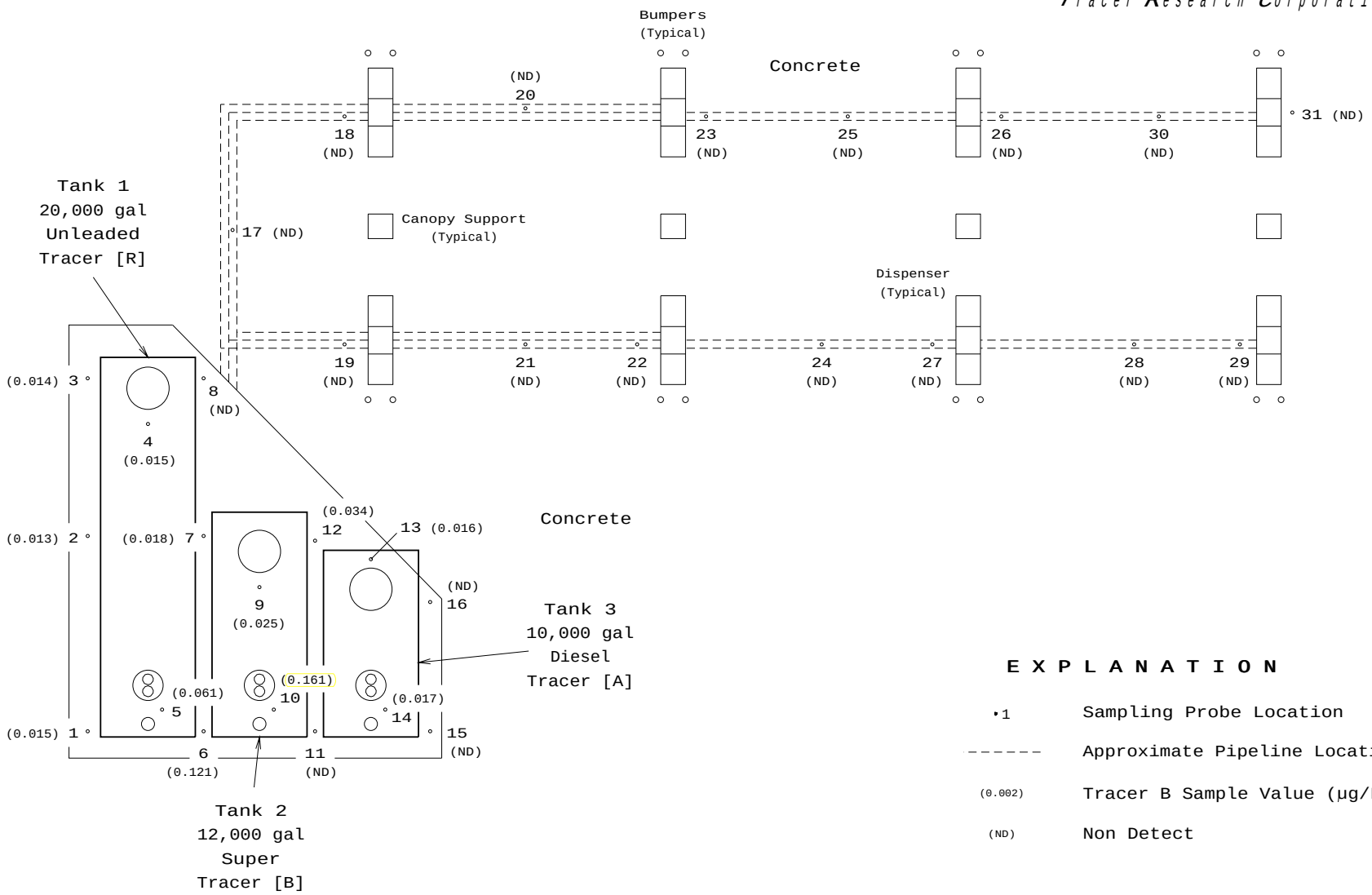
30665U-0000

Site TM 23

Tracer [A] Distribution

File:RA23-1A Size:A
Arc:3665RA23 Date:03-12-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	Tracer B Sample Value (µg/L)
(ND)	Non Detect

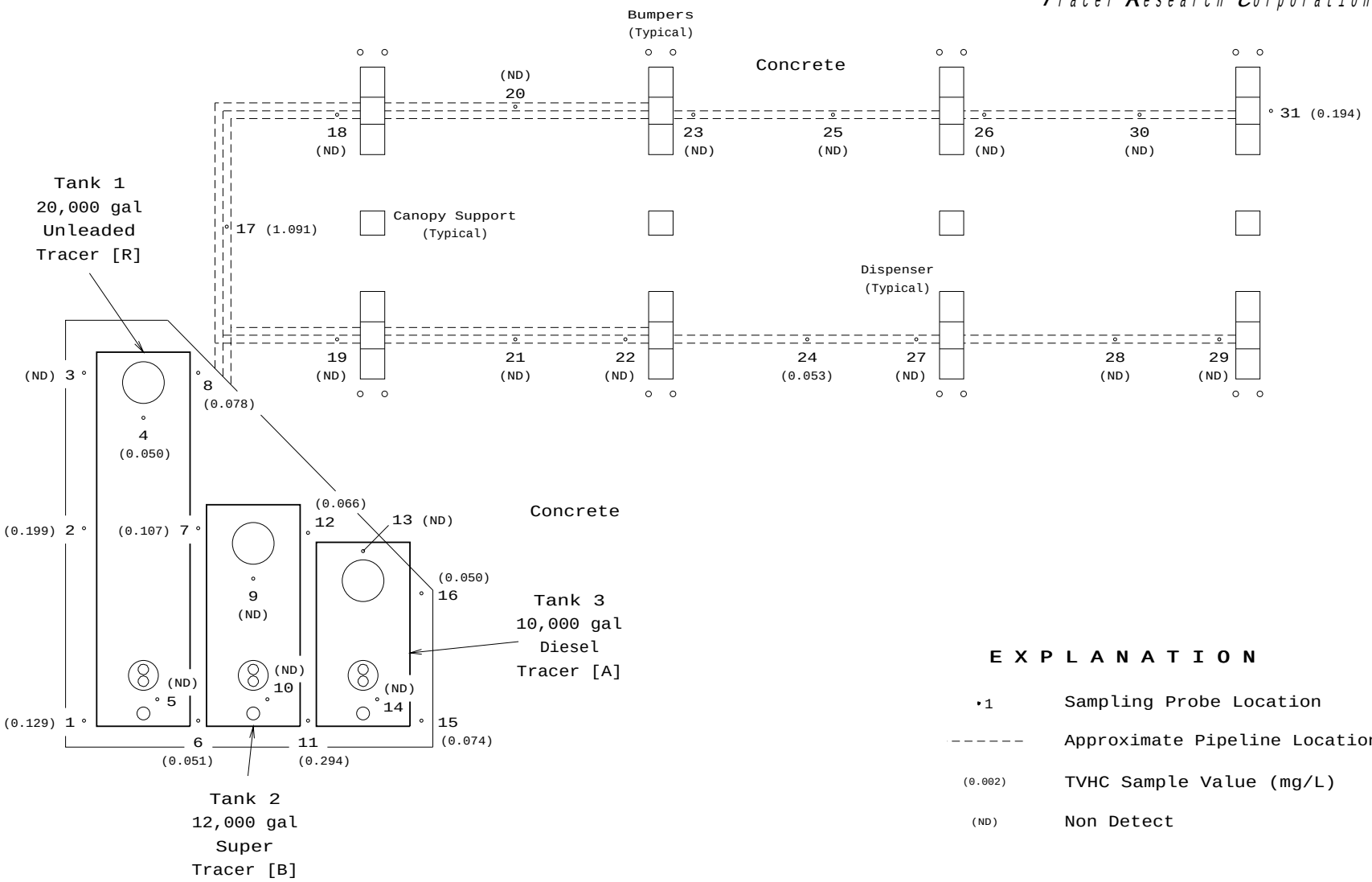
30665U-0000

Site TM 23

Tracer [B] Distribution

File:RA23-1B Size:A
Arc:3665RA23 Date:03-12-02

Tracer Research Corporation



EXPLANATION

•1	Sampling Probe Location
------	Approximate Pipeline Location
(0.002)	TVHC Sample Value (mg/L)
(ND)	Non Detect

30665U-0000

Site TM 23

T V H C D i s t r i b u t i o n

File:RA23-1C Size:A
Arc:3665RA23 Date:03-12-02

Appendix 3: Data Summary

	Tank Number	Tank Type	Piping Type	System Type	Vapor Recovery	Spill Bucket Test	Tracer	Total Installed Probes	Number of probes>ND	Maximum Tracer Concentration (ug/L)	Location of Maximum Tracer
SD04	1	D	D	D	A	P	B	25	14	0.028	T1/T2
SD04	2	D	D	D	A	P	A	25	17	3.546	T2
SD04	3	D	D	D	A	P	W	25	16	0.157	T2/T3
SD05	1	S	S	S	A	P	A	31	9	0.102	T1
SD05	2	S	S	S	A	P	W	31	0	ND	
SD05	3	S	S	S	A	P	R	31	0	ND	
SD05	4	S	S	S	A	P	B	31	1	0.027	T4
SD06	1	D	D	D	A	P	B	36	2	0.01	T2
SD06	2	D	D	D	A	P	W	36	4	0.027	T2
SD06	3	D	D	D	A	P	R	36	0	ND	
SD06	4	D	D	D	A	P	A	36	0	ND	
SD06	5	D	D	D	A	P	A	36	0	ND	
SD12	1	D	D	D	B	F	W	22	7	0.458	T1
SD12	2	D	D	D	B	P	A	22	10	0.82	T2
SD12	3	D	D	D	B	P	R	22	5	2.701	T3
SD12	4	D	D	D	B	P	B	22	0	ND	
SD13	1	D	D	D	B	F	W	26	20	5.836	T1
SD13	2	D	D	D	B	P	R	26	14	0.593	T1
SD13	3	D	D	D	B	F	R	26	14	0.593	T1
SD13	4	D	D	D	B	F	B	26	19	0.121	T1/T2
SD16	1	D	D	D	B	F	B	27	21	3.077	T1
SD16	2	D	D	D	B	F	W	27	14	0.043	T3
SD16	3	D	D	D	B	P	A	27	21	1.577	T3
SD16	4	D	D	D	B	P	A	27	21	1.577	T3

	Tank Number	Tank Type	Piping Type	System Type	Vapor Recovery	Spill Bucket Test	Tracer	Total Installed Probes	Number of probes>ND	Maximum Tracer Concentration (ug/L)	Location of Maximum Tracer
SD17	1	D	D	D	B	P	W	23	18	0.467	T1/T2
SD17	2	D	D	D	B	P	R	23	18	5.406	T2
SD17	3	D	D	D	B	F	A	23	4	0.032	T3
SD22	1	D	D	D	B	P	W	28	0	ND	
SD22	2	D	D	D	B	P	A	28	0	ND	
SD22	3	D	D	D	B	P	B	28	0	ND	
SD24	1	D	D	D	B	P	B	29	21	0.13	T1/T2
SD24	2	D	D	D	B	P	A	29	21	0.269	T1
SD24	3	D	D	D	B	P	W	29	25	2.903	T4
SD24	4	D	D	D	B	F	R	29	0	ND	
SD32	1	S	S	S	B	P	W	25	0	ND	
SD32	2	S	S	S	B	P	R	25	0	ND	
SD32	3	S	D	H	B	P	A	25	4	10.461	T3
SD32	4	S	D	H	B	P	B	25	4	5.8	T3
SD33	1	D	D	D	A	P	B	17	16	20.917	T1/T2
SD33	2	D	D	D	A	P	B	17	16	20.917	T1/T2
SD33	3	D	D	D	A	P	R	17	16	0.807	T3
SD34	1	D	D	D	A	P	R	24	0	ND	
SD34	2	D	D	D	A	P	B	24	0	ND	
SD34	3	D	D	D	A	P	A	24	0	ND	
SD37	1	D	D	D	A	P	R	23	15	0.496	T3
SD37	2	D	D	D	A	P	A	23	16	1.971	T2
SD37	3	D	D	D	A	P	W	23	16	0.583	T3
SD40	1	D	D	D	B	P	A	3	3	2.232	T1
SD42	1	D	D	D	A	P	R	28	8	0.05	T1

	Tank Number	Tank Type	Piping Type	System Type	Vapor Recovery	Spill Bucket Test	Tracer	Total Installed Probes	Number of probes>ND	Maximum Tracer Concentration (ug/L)	Location of Maximum Tracer
SD42	2	D	D	D	A	P	A	28	0	ND	
SD42	3	D	D	D	A	P	B	28	0	ND	
SD42	4	D	D	D	A	P	W	28	0	ND	
SD43	1	D	D	D	A	P	A	23	0	ND	
SD43	2	D	D	D	A	P	B	23	16	2.045	T3
SD43	3	D	D	D	A	P	R	23	0	ND	
SD44	1	S	D	H	A	P	R	27	22	0.533	T2
SD44	2	S	D	H	A	P	W	27	20	0.198	T3
SD44	3	S	D	H	A	P	A	27	23	2.432	T3
SD44	4	S	D	H	A	P	B	27	20	0.573	T3
SD48	1	D	D	D	B	P	A	23	1	0.016	T3
SD48	2	D	D	D	B	P	W	23	1	0.011	T3
SD48	3	D	D	D	B	P	B	23	12	0.754	T3
SD52	1	D	D	D	A	P	B	35	0	ND	
SD52	2	D	D	D	A	P	A	35	0	ND	
SD52	3	D	D	D	A	P	W	35	0	ND	
SD52	4	D	D	D	A	P	R	35	0	ND	
SY05	1	S	D	H	A	P	A	20	14	0.09	T3
SY05	2	S	D	H	A	P	R	20	17	6.494	T2
SY05	3	S	D	H	A	P	W	20	20	12.246	T3
SY07	1	S	D	H	A	P	B	25	0	ND	
SY07	2	S	D	H	A	F	R	25	0	ND	
SY07	3	S	D	H	A	P	A	25	0	ND	
SY08	1	D	D	D	A	P	W	56	27	0.318	T3
SY08	2	D	D	D	A	F	B	56	25	27.926	T3

	Tank Number	Tank Type	Piping Type	System Type	Vapor Recovery	Spill Bucket Test	Tracer	Total Installed Probes	Number of probes>ND	Maximum Tracer Concentration (ug/L)	Location of Maximum Tracer
SY08	3	D	D	D	A	P	A	56	25	0.753	T1/2
SY08	4	D	D	D	A	F	R	56	6	1.714	T4
SY14	1	D	D	D	B	P	W	30	2	0.014	T1
SY14	2	D	D	D	B	P	W	30	2	0.014	T1
SY14	3	S	D	H	B	P	B	30	22	1.475	T2
SY14	4	D	D	D	B	P	R	30	0	ND	
SY15	1	D	D	D	B	P	W	26	0	ND	
SY15	2	D	D	D	B	F	A	26	0	ND	
SY15	3	D	D	D	B	P	A	26	0	ND	
SY17	1	D	D	D	B	P	A	34	17	0.171	T1
SY17	2	D	D	D	B	P	W	34	7	0.02	T1
SY17	3	D	D	D	B	P	W	34	7	0.02	T1
SY17	4	D	D	D	B	P	B	34	24	1.056	T3/4
SY18	1	D	D	D	B	P	W	34	0	ND	
SY18	2	D	D	D	B	P	B	34	0	ND	
SY18	3	D	D	D	B	F	A	34	0	ND	
SY19	1	D	S	H	A	P	R	28	2	0.0201	T1
SY19	2	D	S	H	A	P	A	28	2	0.1585	
SY19	3	D	S	H	A	F	B	28	1	0.0373	T3
SY20	1	D	D	D	B	F	A	30	25	0.114	T3
SY20	2	D	D	D	B	F	B	30	21	0.05	T3
SY20	3	D	D	D	B	F	W	30	30	3.199	T3
SY23	1	D	D	D	B	F	R	34	0	ND	
SY23	2	D	D	D	B	P	A	34	0	ND	
SY23	3	D	D	D	B	P	W	34	0	ND	

	Tank Number	Tank Type	Piping Type	System Type	Vapor Recovery	Spill Bucket Test	Tracer	Total Installed Probes	Number of probes>ND	Maximum Tracer Concentration (ug/L)	Location of Maximum Tracer
SY25	1	S	S	S	A	P	A	46	0	ND	
SY25	2	S	S	S	A	P	B	46	20	1.38	T2
SY25	3	S	S	S	A	P	R	46	12	0.196	T3
SY26	1	D	D	D	B	F	W	38	10	0.113	T1
SY26	2	D	D	D	B	F	R	38	0	ND	
SY26	3	D	D	D	B	F	B	38	0	ND	
SY26	4	D	D	D	B	F	A	38	0	ND	
SY27	1	D	D	D	A	F	B	22	3	0.0461	T1
SY27	2	D	D	D	A	P	A	22	10	2.0643	T2
SY27	3	D	D	D	A	P	R	22	0	ND	
SY36	1	S	S	S	B	P	A	38	8	0.41	T1
SY36	2	S	S	S	B	P	B	38	19	12.928	T2
SY36	3	S	S	S	B	P	R	38	4	0.158	T3
SY37	1	D	D	D	B	F	A	36	27	1.588	T1
SY37	2	D	D	D	B	F	R	36	20	1.603	T2/3
SY37	3	D	D	D	B	F	W	36	1	0.012	T3
SY38	1	D	S	H	B	P	W	37	3	0.023	T2/3
SY38	2	D	S	H	B	P	B	37	3	0.025	T3
SY38	3	D	S	H	B	P	R	37	4	0.034	T2/3
SY39	1	D	D	D	B	P	A	21	19	0.616	T1/2
SY39	2	D	D	D	B	P	R	21	18	0.075	T2/3
SY39	3	D	D	D	B	P	W	21	20	0.01	T3
SY40	1	D	D	D	B	F	A	32	9	0.284	T2
SY40	2	D	D	D	B	F	B	32	10	0.038	T2
SY40	3	D	D	D	B	F	R	32	4	0.129	T2

	Tank Number	Tank Type	Piping Type	System Type	Vapor Recovery	Spill Bucket Test	Tracer	Total Installed Probes	Number of probes>ND	Maximum Tracer Concentration (ug/L)	Location of Maximum Tracer
SY40	4	D	D	D	B	F	W	32	1	0.06	T2
SY41	1	D	D	D	B	P	W	14	7	0.329	T1
SY41	2	D	D	D	B	P	R	14	0	ND	
SY43	1	S	S	S	A	P	B	28	1	0.017	T1
SY43	2	S	S	S	A	P	R	28	1	0.015	T1/2
SY43	3	S	S	S	A	P	W	28	6	0.044	T3
SY44	1	S	S	S	B	P	B	20	14	0.084	T1
SY44	2	S	S	S	B	P	R	20	7	0.207	T2
SY44	3	S	S	S	B	P	W	20	0	ND	
SY45	1	S	D	H	B	P	A	25	0	ND	
SY45	2	S	D	H	B	P	B	25	0	ND	
SY45	3	S	D	H	B	P	W	25	0	ND	
SY47	1	S	D	H	A	P	B	33	0	ND	
SY47	2	S	D	H	A	P	A	33	3	0.034	T3
SY47	3	S	D	H	A	P	W	33	0	ND	
TM01	1	D	D	D	B	P	R	27	0	ND	
TM01	2	D	D	D	B	P	B	27	14	0.067	T1
TM01	3	D	D	D	B	P	A	27	0	ND	
TM02	1	D	D	D	B	P	A	21	21	0.528	T2
TM02	2	D	D	D	B	P	R	21	0	ND	
TM03	1	D	D	D	A	P	A	28	27	6.814	T4
TM03	2	D	D	D	A	P	B	28	27	2.968	T3
TM03	3	D	D	D	A	P	R	28	25	0.14	T4
TM03	4	D	D	D	A	P	W	28	0	ND	
TM04	1	D	D	D	B	P	R	28	0	ND	

	Tank Number	Tank Type	Piping Type	System Type	Vapor Recovery	Spill Bucket Test	Tracer	Total Installed Probes	Number of probes>ND	Maximum Tracer Concentration (ug/L)	Location of Maximum Tracer
TM04	2	D	D	D	B	P	B	28	0	ND	
TM04	3	D	D	D	B	P	A	28	0	ND	
TM05	1	D	D	D	A	P	A	26	22	5.822	T1
TM05	2	D	D	D	A	P	R	26	14	0.382	T1/T2
TM05	3	D	D	D	A	P	W	26	0	ND	
TM06	1	D	D	D	A	P	A	37	21	0.108	T1
TM06	2	D	D	D	A	P	B	37	23	0.237	T1
TM06	3	D	D	D	A	P	R	37	18	0.309	T3/T4
TM06	4	D	D	D	A	F	W	37	14	0.247	T3/T4
TM07	1	D	D	D	A	P	R	32	0	ND	
TM07	2	D	D	D	A	P	B	32	0	ND	
TM07	3	D	D	D	A	P	R	32	0	ND	
TM07	4	D	D	D	A	P	W	32	0	ND	
TM16	1	D	D	D	A	P	R	25	12	34.524	T1
TM16	2	D	D	D	A	P	B	25	6	8.807	T2
TM16	3	D	D	D	A	P	A	25	25	11.149	T2
TM17	1	S	D	H	B	F	B	15	0	ND	
TM17	2	S	D	H	B	P	A	15	0	ND	
TM18	1	D	D	D	A	P	W	30	0	ND	
TM18	2	D	D	D	A	P	A	30	5	0.042	T2/T3
TM18	3	D	D	D	A	P	B	30	4	0.035	T3
TM19	1	D	D	D	A	P	R	71	0	ND	
TM19	2	D	D	D	A	P	W	71	0	ND	
TM19	3	D	D	D	A	P	A	71	2	0.412	T3
TM19	4	D	D	D	A	P	B	71	1	0.012	T3

	Tank Number	Tank Type	Piping Type	System Type	Vapor Recovery	Spill Bucket Test	Tracer	Total Installed Probes	Number of probes>ND	Maximum Tracer Concentration (ug/L)	Location of Maximum Tracer
TM19	5	D	D	D	A	P	R	71	0	ND	
TM19	6	D	D	D	A	P	W	71	1	0.108	T6
TM21	1	D	D	D	A	P	R	26	0	ND	
TM21	2	D	D	D	A	P	A	26	8	0.1	T3
TM21	3	D	D	D	A	P	B	26	0	ND	
TM23	1	D	D	D	B	P	R	31	0	ND	
TM23	2	D	D	D	B	P	B	31	12	0.161	T2
TM23	3	D	D	D	B	P	A	31	2	0.019	T2/T3

SY= Sacramento/Yolo SD=San Diego TM=Temecula
ND= non-detect P=pass D=double-walled T3= tank 3
NS=not sampled F=fail S= single-walled A= Assist B=Balance