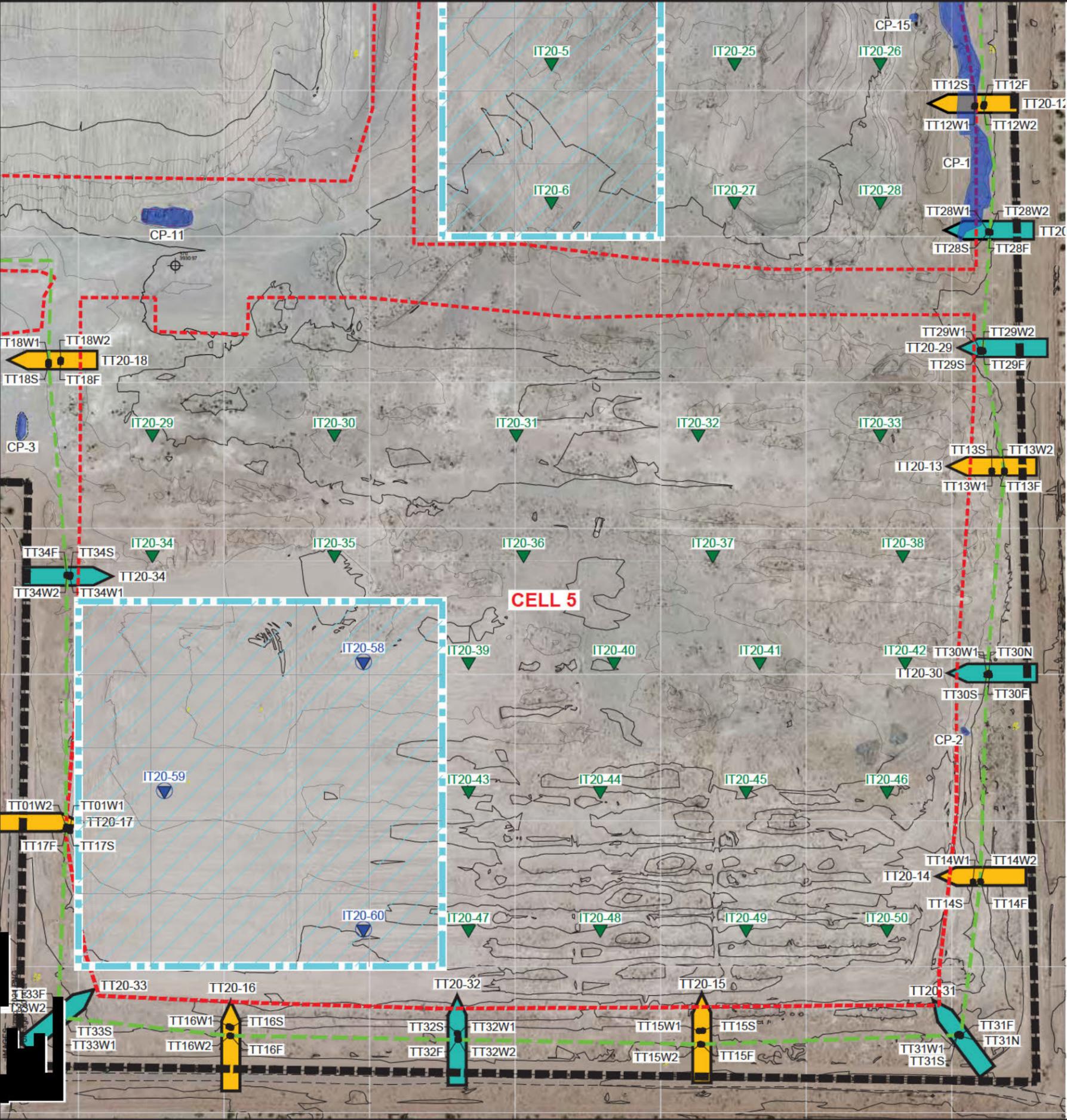


US:30056969-Fort Bliss Landfill Project File\0_WIP\FIGURES\LOW\FIG03ABC-2021 TRENCH PIT LOC.dwg LAYOUT: 3C SAVED: 11/2/2021 5:52 PM ACADVER: 23.1.4 (LMS TECH) PAGES: 11/20 PLOTTED: 11/29/2021 11:35 AM BY: ZORN, COREY

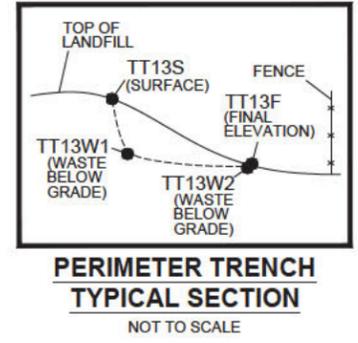


LEGEND

- LANDFILL PERMIT BOUNDARY
- APPROXIMATE CELL BOUNDARY (SUBTITLE D CELL)/ASSUMED CELL BOUNDARY (ALL OTHER CELLS BASED ON 2015 LOW)
- TOPOGRAPHIC CONTOUR
- FENCE
- PARTIAL FILL
- INTERIOR TRENCH (50)
- INTERIOR TRENCH TIME PERMITTING (10)
- PERIMETER TRENCH (25)
- DATA GAP PERIMETER TRENCH (9)
- CONCRETE PILE (11)
- TRENCH LOCATION POINT
- LIMITS OF WASTE 2021

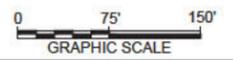
ABBREVIATION LEGEND

IT = INTERNAL TRENCH
 TT = PERIMETER TRENCH
 S = GROUND SURFACE AT START OF PERIMETER TRENCH
 F = GROUND SURFACE AT END OF PERIMETER TRENCH
 W1 = WASTE BELOW GRADE AT START OF PERIMETER TRENCH
 W2 = LIMIT OF WASTE BELOW GRADE WITHIN PERIMETER TRENCH
 N = NO WASTE ENCOUNTERED
 CP = CONCRETE PILE



MAY 2021 TRENCH LIMITS OF WASTE & DEPTH TO WASTE ELEVATIONS

ID	NORTHING	EASTING	TOP OF WASTE ELEVATION	ID	NORTHING	EASTING	TOP OF WASTE ELEVATION
TT01W1			3926.5	TT18W1			3926.5
TT01W2			3926.9	TT18W2			3927.7
TT02W1			3925.3	TT19W1			3923.9
TT02W2			3926.4	TT19W2			3924.3
TT03W1			3930.8	TT20W1			3927.0
TT03W2			3928.3	TT20W2			3927.8
TT04W1			3929.4	TT21W1			3924.5
TT04W2			3927.7	TT21W2			3923.1
TT05W1			3933.3	TT22W1			3924.3
TT05W2			3929.5	TT22W2			3924.8
TT07W1			3927.1	TT23W1			3925.2
TT07W2			3925.5	TT23W2			3925.9
TT08W1			3923.8	TT24W1			3924.7
TT08W2			3924.0	TT24W2			3924.9
TT09W1			3925.3	TT25W1			3925.3
TT09W2			3923.7	TT25W2			3926.8
TT10W1			3924.3	TT26W1			3922.8
TT10W2			3924.1	TT26W2			3923.2
TT11W1			3922.5	TT27W1			3920.1
TT11W2			3921.6	TT27W2			3920.0
TT12W1			3921.0	TT28W1			3920.6
TT12W2			3920.1	TT28W2			3920.6
TT13W1			3918.7	TT29W1			3919.1
TT13W2			3918.4	TT29W2			3919.0
TT14W1			3919.9	TT30W1			3920.0
TT14W2			3919.4	TT31W1			3919.1
TT15W1			3918.2	TT32W1			3919.6
TT15W2			3917.3	TT32W2			3917.5
TT16W1			3919.8	TT33W1			3918.6
TT16W2			3919.1	TT33W2			3918.7
TT17W1			3923.1	TT34W1			3922.8
TT17W2			3922.2	TT34W2			3924.7



**FORT BLISS LANDFILL
 FORT BLISS, TEXAS
 FINAL LIMITS OF WASTE INVESTIGATION REPORT**

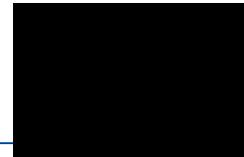
**2021 LIMITS OF WASTE &
 TRENCH WASTE ELEVATIONS**

- NOTES:**
- BEARING BASIS AND COORD NATE VALUES ARE UNIVERSAL TRANSVERSE MERCATOR, ZONE 13 NORTH, NORTH AMERICAN DATUM OF 1983.
 - MAP SOURCE: AEROTECH MAPPING, NC. FLIGHT DATE: FEBRUARY 22, 2018 FOR LAND-MARK PROFESSIONAL SURVEYING, NC.

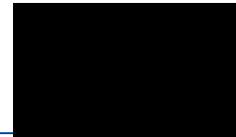
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APPENDICES



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Appendix A – Field Forms

- A1. Perimeter Trench Logs**
 - A2. Interior Trench Logs**
 - A3. Daily Quality Control Reports**
 - A4. Field Activity Reports**
 - A5. Tail Gate Safety Meeting Forms**
-



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A1. Perimeter Trench Logs



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Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior

Project Name and No. MSWLF Limit of Waste Investigation - Fort Bliss, Texas

Test Pit No. TJ20-01 Direction Advanced South

Date Excavated: 10/5/11/21 Weather: clear sunny breezy

Date Backfilled: 5-11-21 5-14-21 Weather: clear sunny breezy

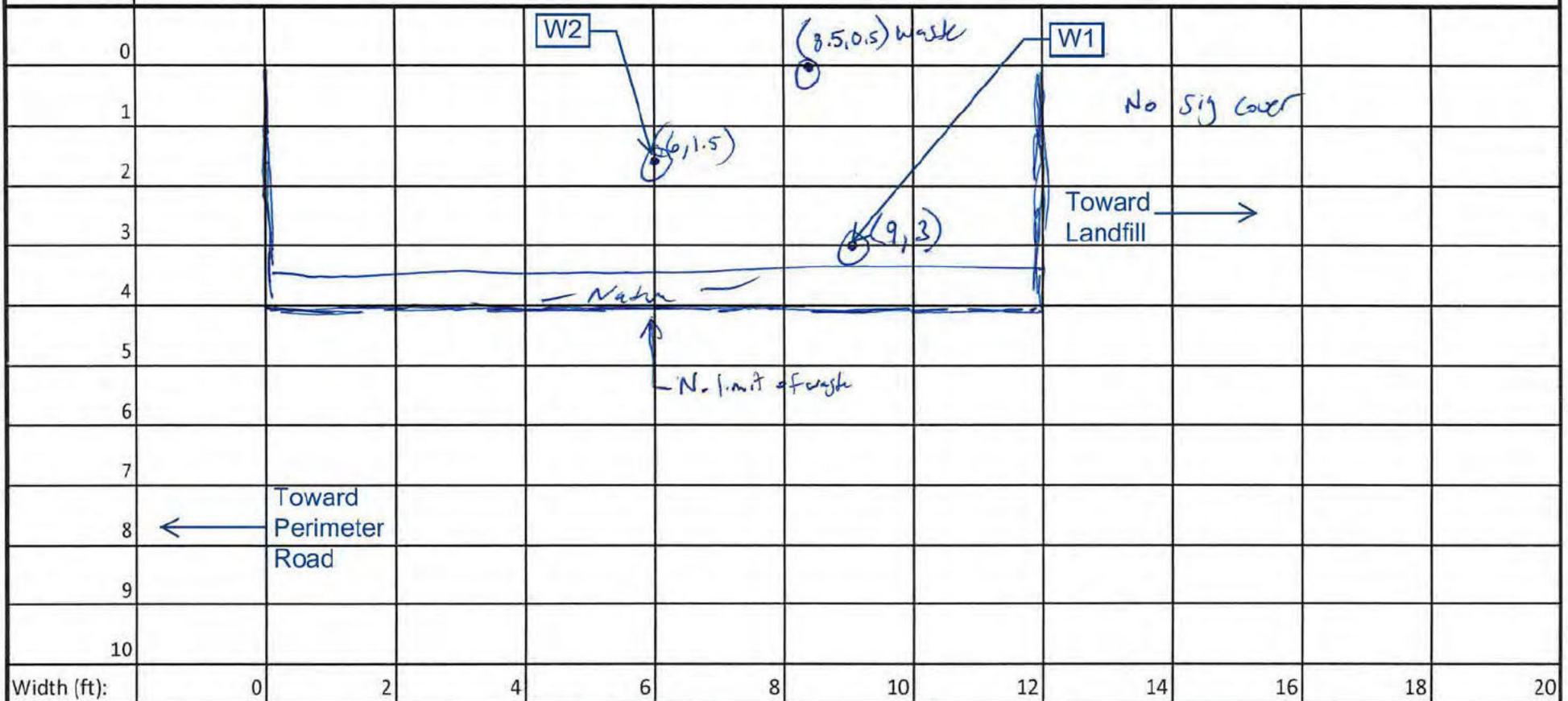
Start Location: N E El.

Contractor: Machine: Case 580N-

Operator: Bucket Width: 2 ft

Logged By:

Depth (ft): Sketch - Clearly locate and label: 1) depth to waste; 2) limit of waste; 3) materials encountered; 4) soil characteristics; 5) other observations



USCS characterization of soils encountered: gravelly CLay (CL) overly cobble @ ~3.5 ft. Sample Taken:

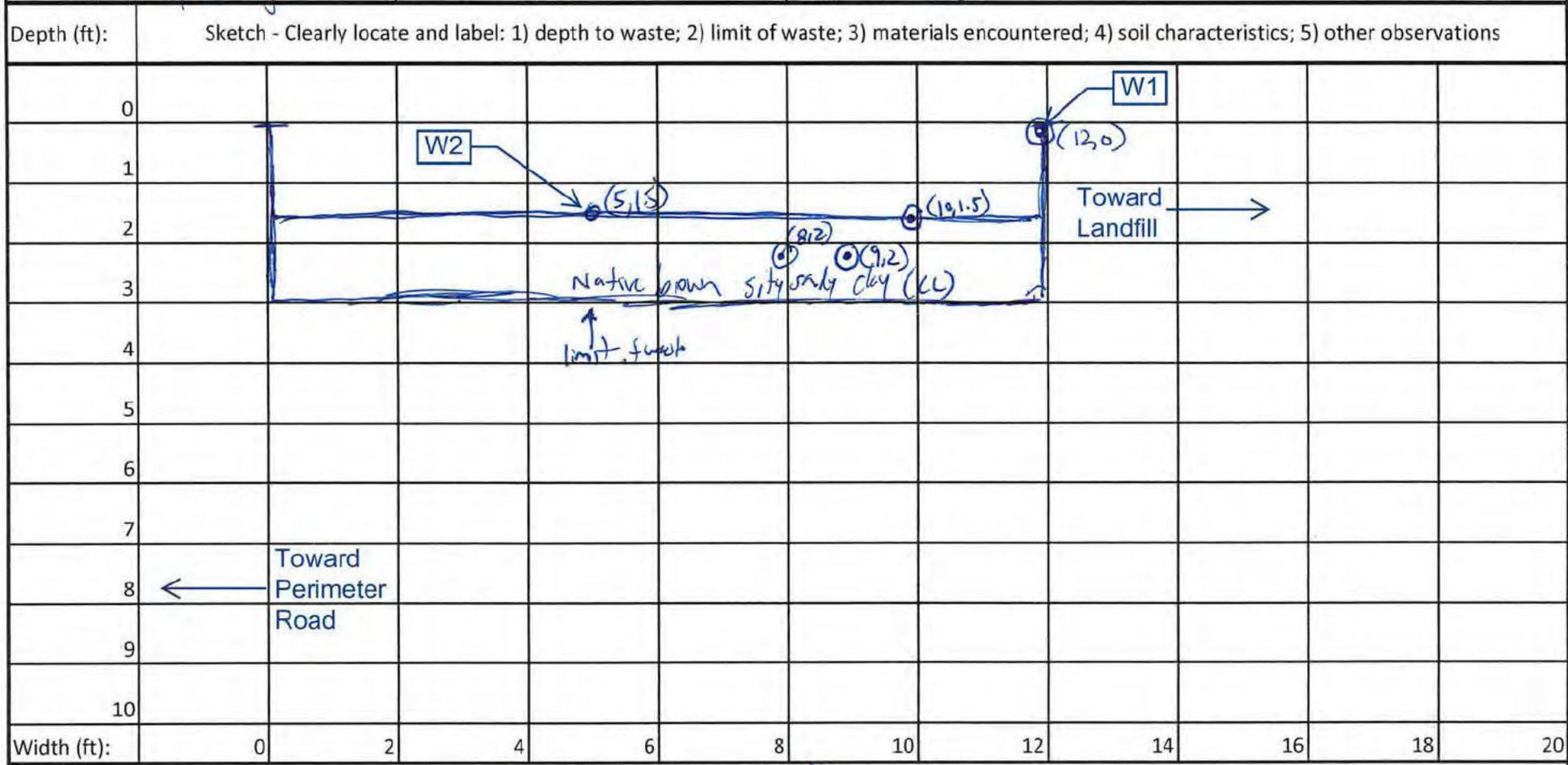
GPS coordinates of limit of waste or depth to waste (circle): N E EL. Trimble Unit No.



Preliminary field notes with approximate hand measurements. Survey at a later date used for landfill design purposes.

Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior

Project Name and No. <u>MSWLF Limit of Waste Investigation - Fort Bliss, Texas</u>		Test Pit No. <u>TT20-02</u>	Direction Advanced <u>N</u>
Date Excavated: <u>5/11/21</u>	Weather: <u>clear sunny breezy</u>		
Date Backfilled ^{PM} <u>5/11/21 5-14-21</u>	Weather: <u>clear sunny breezy</u>		
Contractor: <u> </u>	Machine: <u>Case 580N</u>	Start Location: N <u> </u> E <u> </u> El. <u> </u>	
Operator: <u> </u>	Bucket Width: <u> </u>	Logged By: <u> </u>	



USCS characterization of soils encountered: Cover = gravelly sand w/ clay (SW) Sample Taken:

GPS coordinates of limit of waste or depth to waste (circle): N E EL. Trimble Unit No.



Preliminary field notes with approximate hand measurements. Survey at a later date used for landfill design purposes.

Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior _____

Project Name and No. MSWLF Limit of Waste Investigation - Fort Bliss, Texas

Test Pit No. TT20-03 Direction Advanced North

Date Excavated: 5/11/21

Weather: clear breezy

Date Backfilled ^{DATE} 5/14/21

Weather: clear breezy

Contractor: [REDACTED]

Machine: Case 580 N

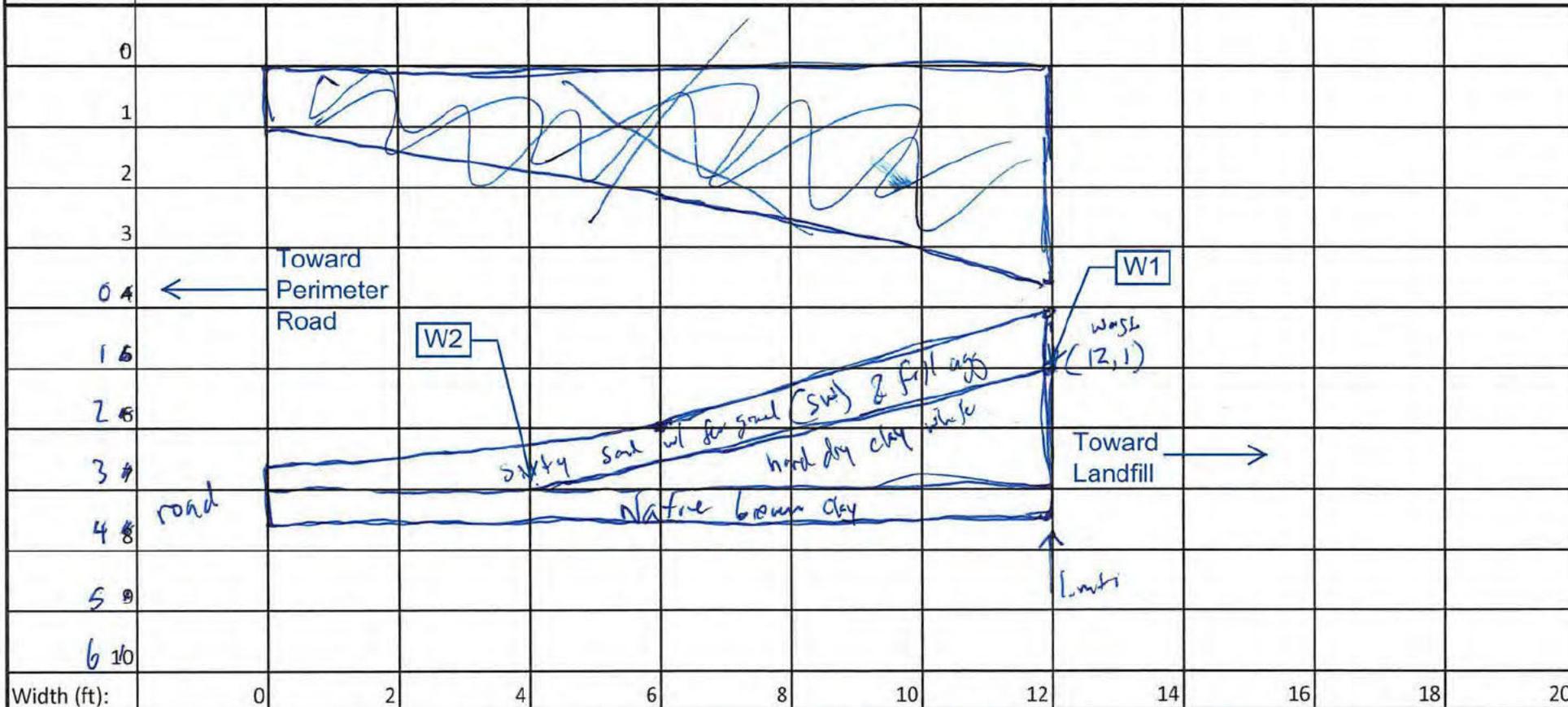
Start Location: N _____ E _____ El. _____

Operator: [REDACTED]

Bucket Width: 2 ft

Logged By: [REDACTED]

Depth (ft): Sketch - Clearly locate and label: 1) depth to waste; 2) limit of waste; 3) materials encountered; 4) soil characteristics; 5) other observations



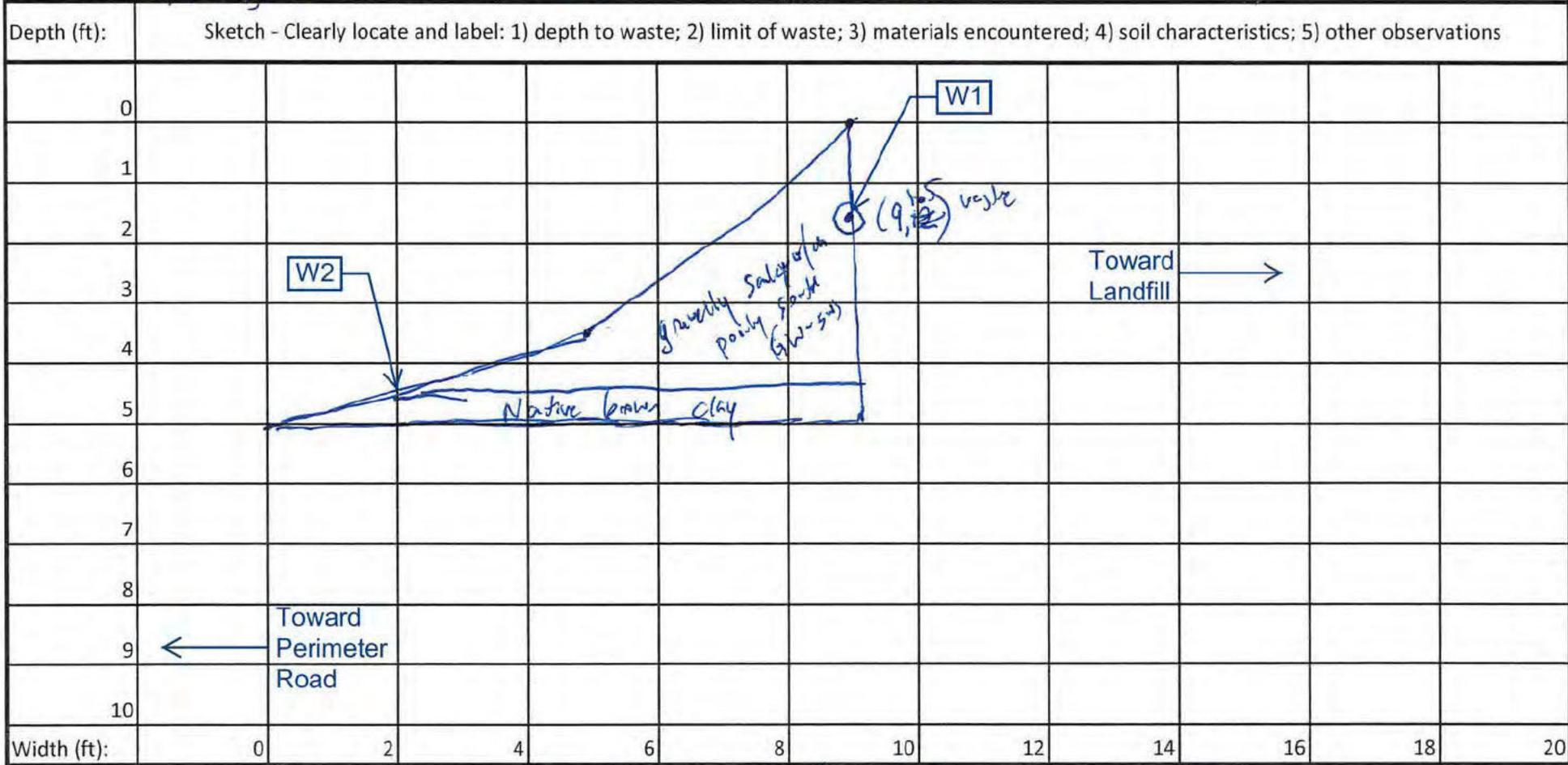
USCS characterization of soils encountered: Native brown clay / hard dry clay / Str of asphalt & misc fill Sample Taken: No

GPS coordinates of limit of waste or depth to waste (circle): N _____ E _____ El. _____ Trimble Unit No. _____

← N Preliminary field notes with approximate hand measurements. Survey at a later date used for landfill design purposes.

Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior

Project Name and No. <u>MSWLF Limit of Waste Investigation - Fort Bliss, Texas</u>		Test Pit No. <u>TT20-04</u>	Direction Advanced <u>North</u>
Date Excavated: <u>5/11/21</u>	Weather: <u>clear, breezy</u>		
Date Backfilled: <u>5-14-21</u>	Weather: <u>clear, breezy</u>		
Contractor: <u>[REDACTED]</u>	Machine: <u>Case 530N</u>	Start Location: N <u> </u> E <u> </u> El. <u> </u>	
Operator: <u>[REDACTED]</u>	Bucket Width: <u>2 ft</u>	Logged By: <u>[REDACTED]</u>	



USCS characterization of soils encountered: Native brown clay @ base / GW-Sat Sample Taken:

GPS coordinates of limit of waste or depth to waste (circle): N E EL. Trimble Unit No.



Preliminary field notes with approximate hand measurements. Survey at a later date used for landfill design purposes.

Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior _____

Project Name and No. MSWLF Limit of Waste Investigation - Fort Bliss, Texas

Test Pit No. TT20-05 Direction Advanced North

Date Excavated: 5/11/21

Weather: clear, breezy

Date Backfilled ^{DMS} 5/11/21

Weather: -- --

Contractor: [redacted]

Machine: Case

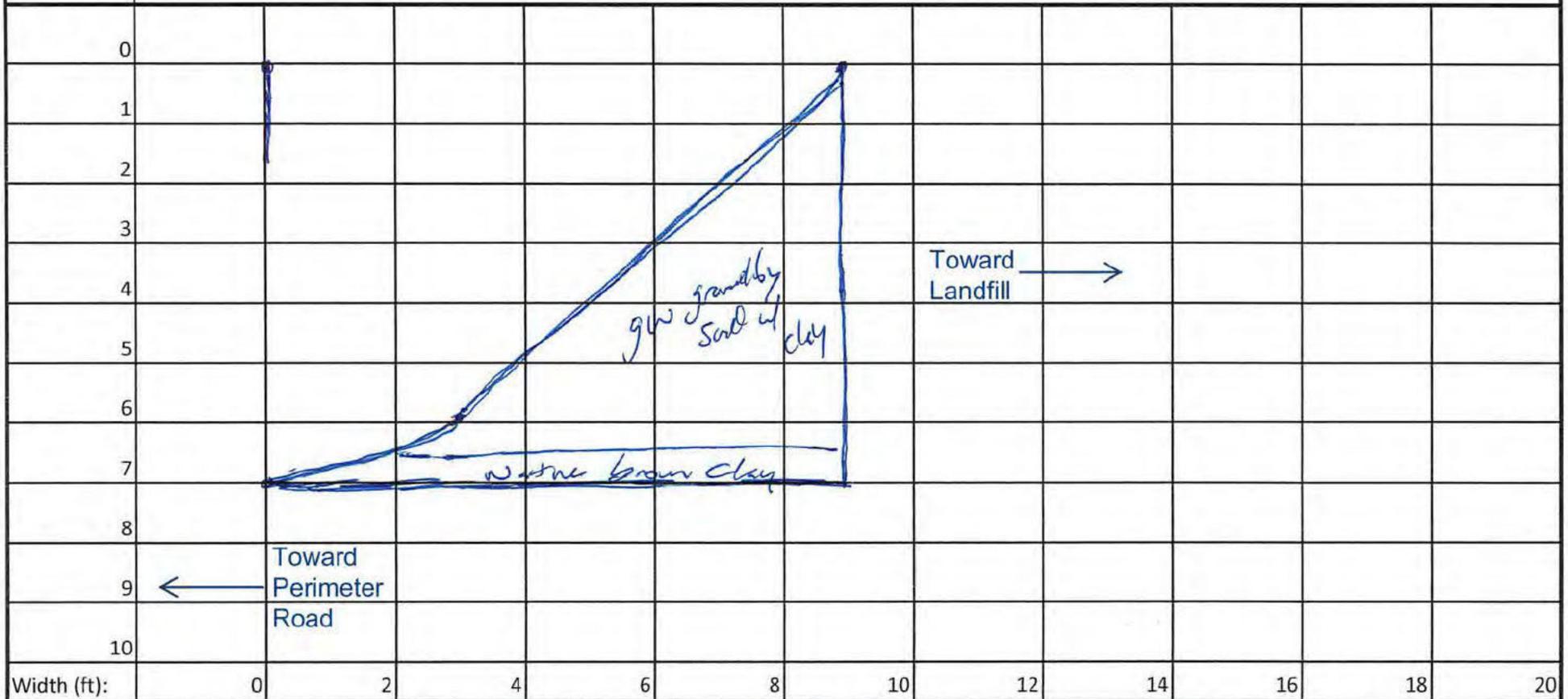
Start Location: N _____ E _____ EL. _____

Operator: [redacted]

Bucket Width: 2ft

Logged By: [redacted]

Depth (ft): Sketch - Clearly locate and label: 1) depth to waste; 2) limit of waste; 3) materials encountered; 4) soil characteristics; 5) other observations



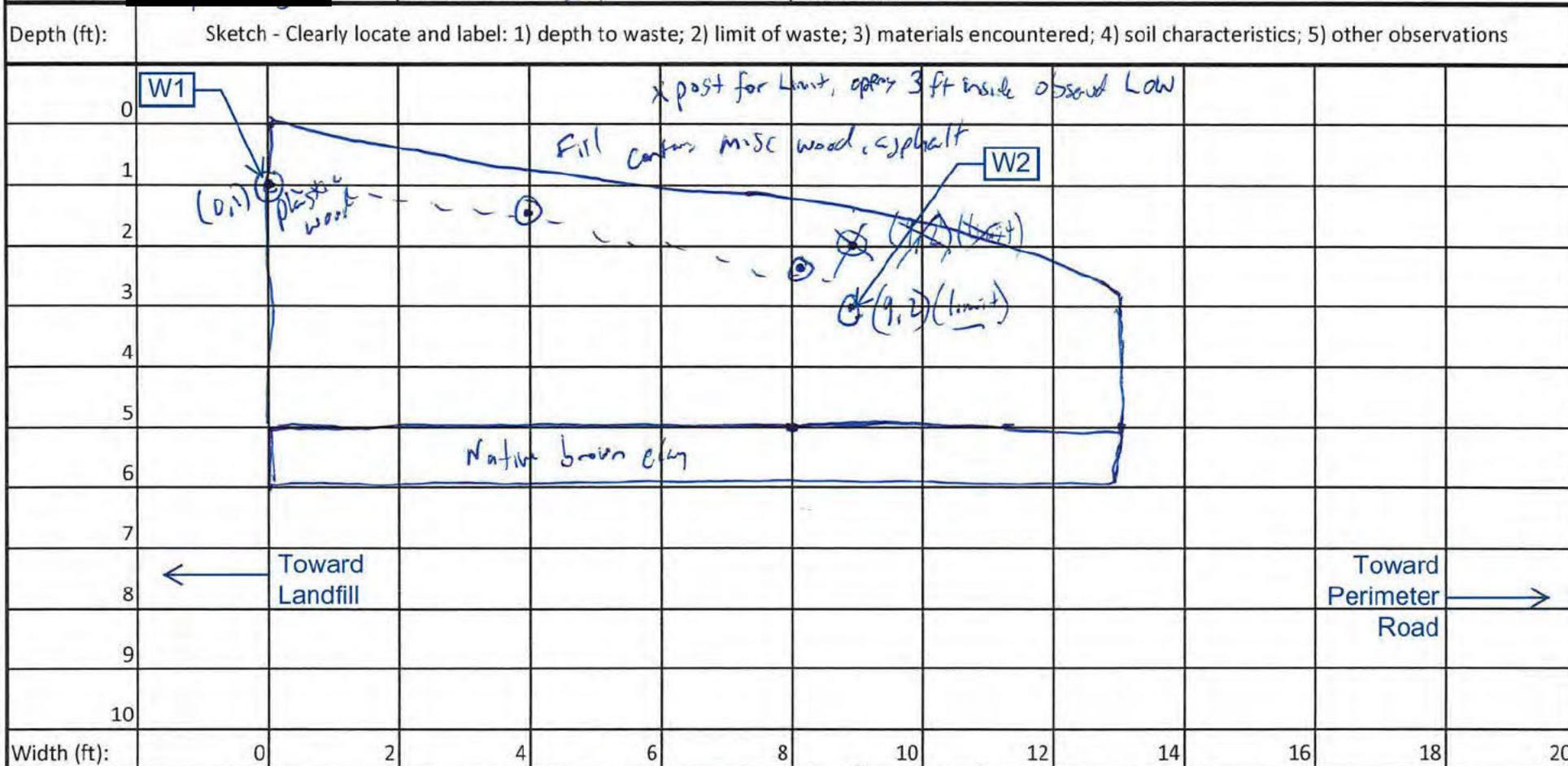
USCS characterization of soils encountered: Native yellow clay underlying GW - SW Sample Taken: —

GPS coordinates of limit of waste or depth to waste (circle): N _____ E _____ EL. _____ Trimble Unit No. _____

Preliminary field notes with approximate hand measurements. Survey at a later date used for landfill design purposes. ← N no waste observed @ limit of waste

Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior _____

Project Name and No. MSWLF Limit of Waste Investigation - Fort Bliss, Texas		Test Pit No. <u>TT20-05-2</u> Direction Advanced <u>South</u>
Date Excavated: <u>5/11/21</u>	Weather: <u>clear breezy</u>	
Date Backfilled: <u>5-14-21</u>	Weather: <u>"</u>	
Contractor: <u>[Redacted]</u>	Machine: <u>CASE 580N</u>	Start Location: N _____ E _____ EL. _____
Operator: <u>[Redacted]</u>	Bucket Width: <u>2.5 ft</u>	Logged By: <u>[Redacted]</u>



USCS characterization of soils encountered: Native brown clay/soil by (GW; SC) Sample Taken: _____

GPS coordinates of limit of waste or depth to waste (circle): N _____ E _____ EL. _____ Trimble Unit No. _____

Preliminary field notes with approximate hand measurements. Survey at a later date used for landfill design purposes.

