



Purchasing Division
Finance Department
Room 120
411 West First Street
Duluth, Minnesota 55802

218-730-5340
purchasing@duluthmn.gov

Addendum # 1
Solicitation # 25-99193
Project 2082 & 2214
Lead Water Service Replacement – Lincoln Park 2 & 3

NOTICE

This Addendum is issued to modify, explain or correct the original drawings, specifications and/or previous addenda and is hereby made a part of the Contract Documents.

CHANGES TO DRAWINGS

None.

CHANGES TO SPECIAL PROVISIONS

1. Delete **SP-15.1.3** of Project 2082 Special Provisions in its entirety and replace with the following:

Substantial Completion. All work under this Contract shall be substantially complete on or before November 26, 2025. For this project, Substantial Completion shall be deemed to include ALL work in the Contract, except the following items: final turf establishment.

2. The following is hereby added to **SP-30.3** of Project 2082 Special Provisions:

Should hot mix asphalt become unavailable prior to November 26, 2025, the Contractor shall provide and maintain temporary cold mix asphalt for all yet-unpaved street patches with no additional compensation therefore.

3. Delete **SP-15.1.3** of Project 2214 Special Provisions in its entirety and replace with the following:

Substantial Completion. All work under this Contract shall be substantially complete on or before November 26, 2025. For this project, Substantial Completion shall be deemed to include ALL work in the Contract, except the following items: final turf establishment.

4. The following is hereby added to **SP-27.3** of Project 2214 Special Provisions:

Should hot mix asphalt become unavailable prior to November 26, 2025, the Contractor shall provide and maintain temporary cold mix asphalt for all yet-unpaved street patches with no additional compensation therefore.

RESPONSES TO SELECTED BIDDER QUESTIONS

None.

SUPPLEMENTAL INFORMATION

The following information is hereby provided for the Contractor's consideration:

1. Appendix A – 2082 Soil Probe Report.
2. Appendix B – 2214 Soil Probe Report.

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation

Posted: **2/5/2025**

END OF ADDENDUM

December 9, 2024

Project B2410032

Mr. Jon Maruska
City of Duluth
411 West 1st Street, Room 107
Duluth, MN 55802

Re: Subsurface Investigation
Duluth Water Main Extension – Lincoln Park 1
Elinor Street, Martha Street, North 9th Ave West, South 18th Ave East, Winnipeg Avenue,
North 19th Ave West, North 38th Ave West, North 22nd Ave West
Duluth, Minnesota

Dear Mr. Maruska:

Braun Intertec Corporation is pleased to provide this letter report for the Lincoln Park 1 portion of the Water Main Extension project in Duluth, Minnesota.

Scope of Services

The City of Duluth is planning to install new water main utilities at various locations throughout Duluth. The design concern is the potential for bedrock being encountered above the planned invert depth of the water main. Our investigation was intended to determine the apparent bedrock depth at the planned exploration locations.

We performed our scope of services for the project in accordance with Purchase Order 2024-00000617 from the City of Duluth. The following list describes the geotechnical tasks completed in accordance with our authorized scope of services.

- Staking and clearing the exploration locations of underground utilities. LHB, Inc. selected, and we staked the new exploration locations. We acquired the surface elevations and locations with GPS technology using the State of Minnesota's permanent GPS base station network.
- Performing forty (40) direct push probes, denoted as B85 to B120 and B85-2 to B90-2 to nominal depths of 15 feet or refusal, whichever occurred first.

- Noting any groundwater that was observed during each probe.
- Providing a letter summarizing the depth of each probe.

Results

Direct push probes were conducted at 40 locations as shown on the location sketches attached to this letter. The results are summarized below and on the attached sheets.

Elinor Street: Probes B85 through B88 were conducted on Elinor Street between 59th Avenue West and North 58th Avenue West. Refusal was not encountered at any of these locations. All of the probes were extended to a depth of 15 feet. Groundwater was not observed in these probes.

Martha Street: Probes B85-2 through B90-2 were conducted on Martha Street between North 8th Ave East and North 9th Avenue East. Refusal was encountered in four of these six probes at depths ranging from 11 to 14 feet below the surface. Probe locations B85-2 and B86-2 did not encounter refusal. Groundwater was not observed in the probes.

North 9th Ave West: Probes B91 through B94 were conducted on North 9th Avenue West between West 3rd Street and West 4th Street. Refusal was encountered in Probes B92 and B94 at depths of 5 feet and 4 1/2 feet, respectively. Probes B91 and B93 were extended to a depth of 15 feet. Groundwater was not observed in the probes.

South 18th Ave East: Probes B95 through B98 were conducted on South 18th Ave East between Jefferson Street and London Road. Refusal was encountered in all of these probes at depths ranging from 5 1/2 to 10 feet below the surface. Groundwater was not observed in these probes.

Winnipeg Avenue: Probes B99 through B102 were conducted on Winnipeg Avenue between Wellington Street and West 6th Street. Refusal was not encountered at any of these locations. All of the probes were extended to a depth of 15 feet. Groundwater was not observed in these probes.

North 19th Ave West: Probes B103 through B105 were conducted on North 19th Ave West between West 1st Street and West 2nd Street. Refusal was not encountered at any of these locations. All of the probes were extended to a depth of 15 feet. Groundwater was not observed in these probes.

North 38th Ave West: Probes B106 through B109 were conducted on North 38th Avenue West between West 5th Street and West 6th Street. Refusal was not encountered at any of these locations. All of the probes were extended to a depth of 15 feet. Groundwater was not observed in these probes.

North 22nd Ave West: Probes B110 through B120 were conducted on North 22nd Avenue West between West 2nd Street and West 6th Street. Refusal was encountered in nine of these eleven probes at depths ranging from 2 1/2 to 13 feet below the surface with probe locations B117 and B120 not encountering refusal. Groundwater was not observed in these probes.

Refusal depths of the direct push probes are noted at the locations where it occurred above the planned termination depth of 15 feet. Refusal is defined as the point which the direct push probe could not be advanced further without excessive effort. Refusal can be caused by hardpan, cobbles, boulders, or bedrock.

Based on our knowledge of the area, we suspect that the refusals were caused by bedrock. However, in this area, both bedrock and boulders are common. Coring or test pits would be required to positively identify the cause(s) of the refusal.

Groundwater

It should be noted that groundwater may take several hours or days to seep in to and stabilize in an open hole, and our probes were backfilled immediately. Seasonal and annual fluctuations should also be anticipated.

General

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

To have questions answered or schedule a time to meet and discuss our approach to this project further, please contact Kyle Warmuth (kwarmuth@braunintertec.com) at 218.624.4967.

Sincerely,

BRAUN INTERTEC CORPORATION



Kyle P. Warmuth, PE
Project Engineer

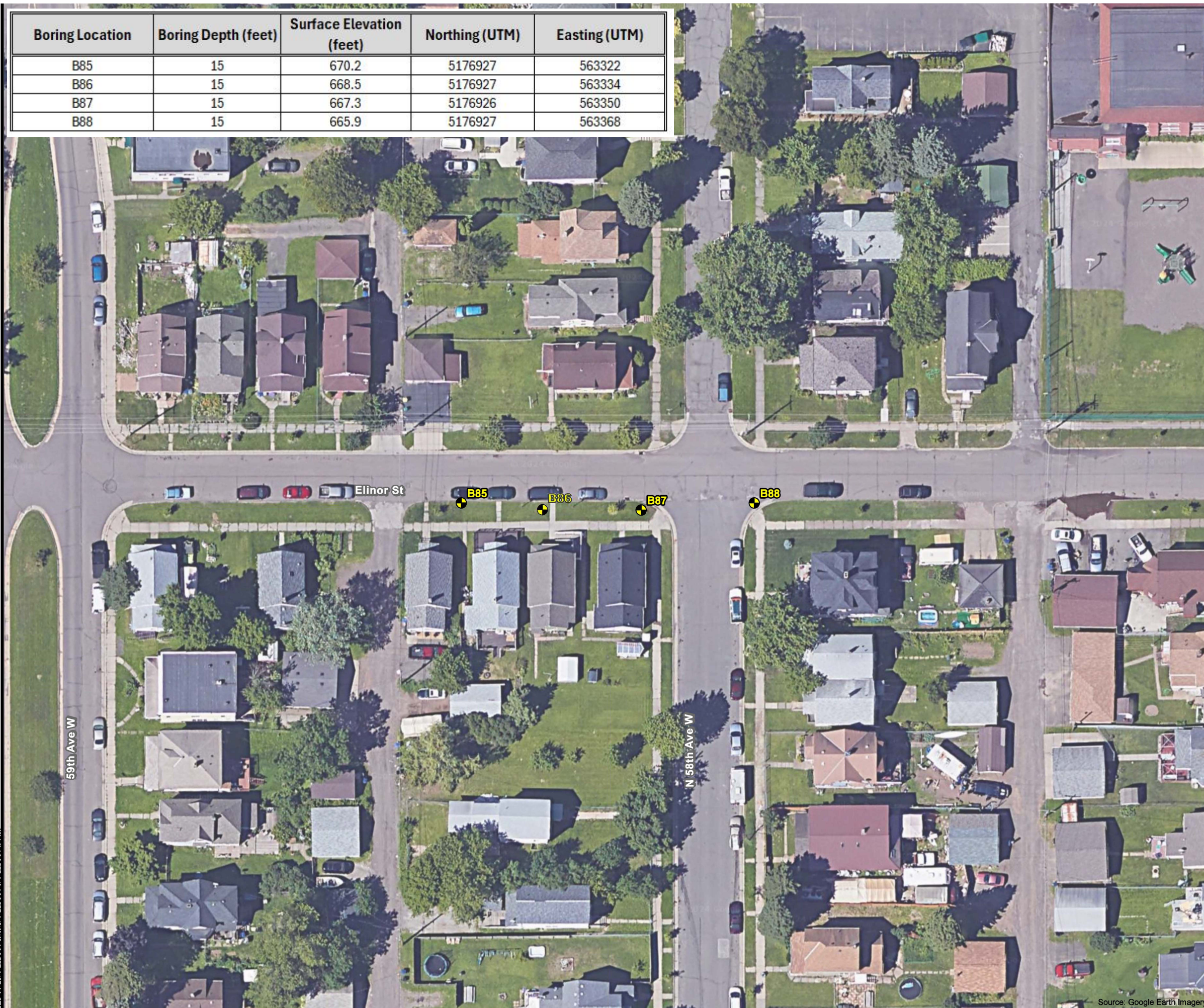


Steven A. Thayer, PE
Senior Manager, Senior Engineer

Attachments:

Direct Push Location Sketches with Refusal Depths (7 pages)

Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B85	15	670.2	5176927	563322
B86	15	668.5	5176927	563334
B87	15	667.3	5176926	563350
B88	15	665.9	5176927	563368



☉ Denotes Boring Location



Drawing Information

Project No:
B2410032

Drawing No:
Boring Location Sketch

Drawn By: ZS
Date Drawn: 11/14/2024
Checked By: KW
Last Modified: 11/14/2024

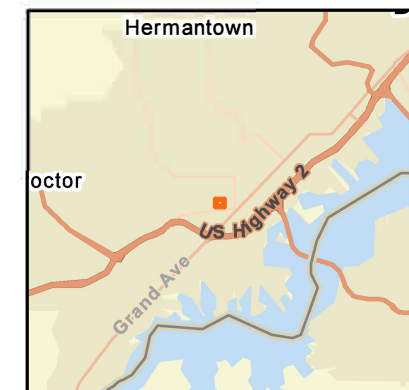
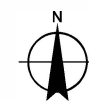
Project Information

Duluth Water Main
Extension - Lincoln 1

Lincoln Park

Duluth, Minnesota

**Boring Location
Sketch**



Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B85-2	15	1149.1	5183983	568456
B86-2	15	1143.6	5183983	568474
B87-2	14*	1140.3	5183983	568485
B88-2	15	1136.2	5183983	568498
B89-2	11*	1132.2	5183983	568511
B90-2	11*	1129.6	5183985	568526

*= Refusal



Denotes Boring Location



Drawing Information

Project No:
B2410032
Drawing No:
Boring Location Sketch
Drawn By: ZS
Date Drawn: 11/14/2024
Checked By: KW
Last Modified: 11/14/2024

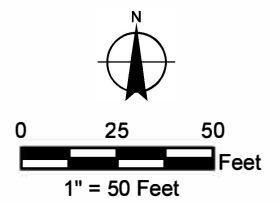
Project Information

Duluth Water Main
Extension - Lincoln 1

Lincoln Park

Duluth, Minnesota

Boring Location
Sketch



E:\2024\B2410032\GIS\B2410032\B2410032.aprx

Source: Google Earth Imagery

Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B91	15	918.7	5181170	567700
B92	5*	915.9	5181162	567708
B93	15	912.4	5181149	567724
B94	4 1/2*	910.5	5181137	567741

*= Refusal



Denotes Boring Location



Drawing Information

Project No:
B2410032

Drawing No:
Boring Location Sketch

Drawn By: ZS
Date Drawn: 11/14/2024
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Last Modified: 11/14/2024

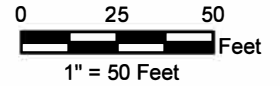
Project Information

Duluth Water Main
Extension - Lincoln 1

Lincoln Park

Duluth, Minnesota

Boring Location
Sketch



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Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B95	8 1/2*	686.1	5183705	570643
B96	10*	684.7	5183699	570647
B97	6 1/2*	678.2	5183682	570660
B98	5 1/2*	674.2	5183673	570667

*= Refusal



● Denotes Boring Location



Drawing Information

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B2410032

Drawing No:
Boring Location Sketch

Drawn By: ZS
Date Drawn: 11/14/2024
Checked By: KW
Last Modified: 11/14/2024

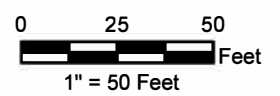
Project Information

Duluth Water Main
Extension - Lincoln 1

Lincoln Park

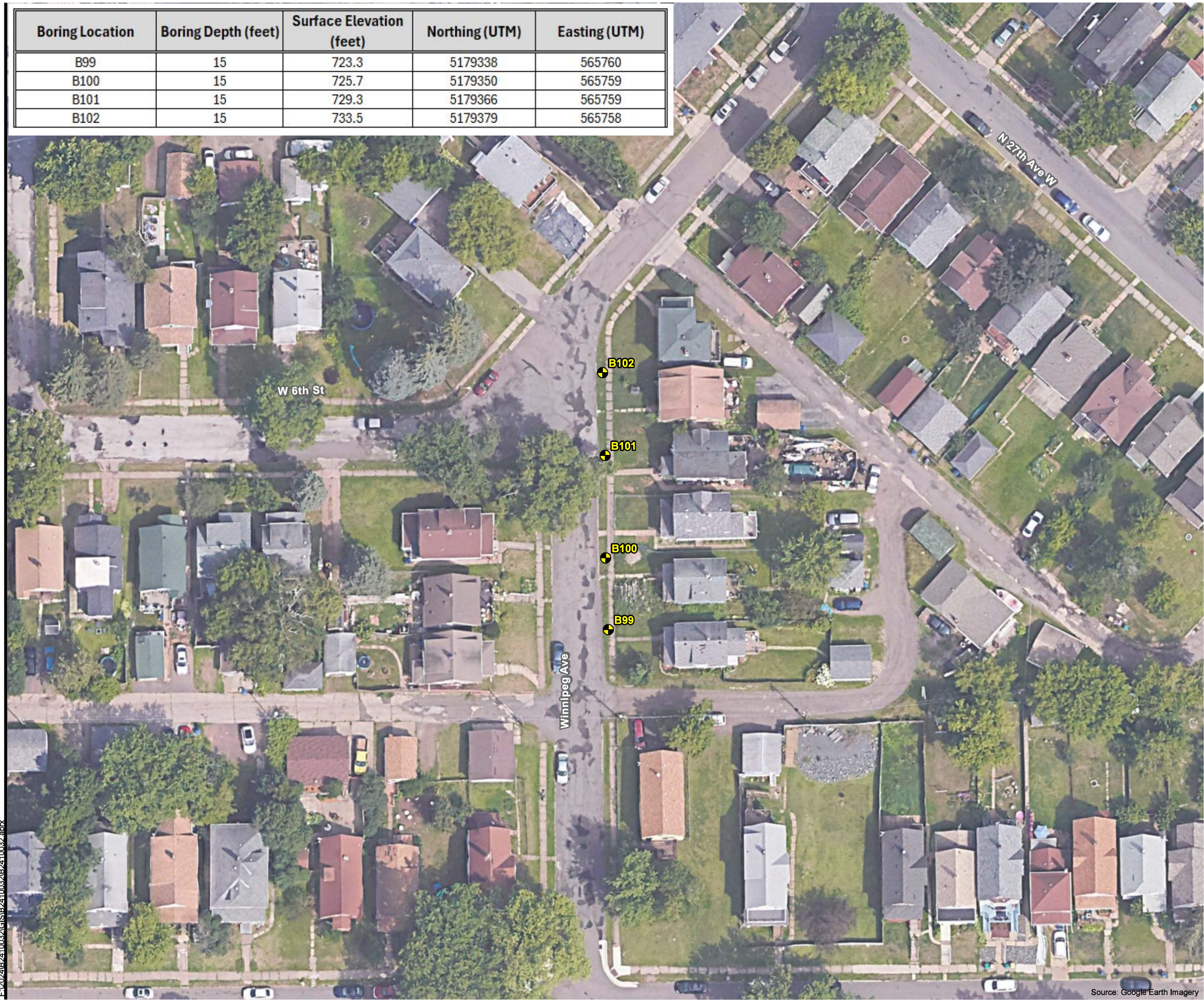
Duluth, Minnesota

Boring Location
Sketch



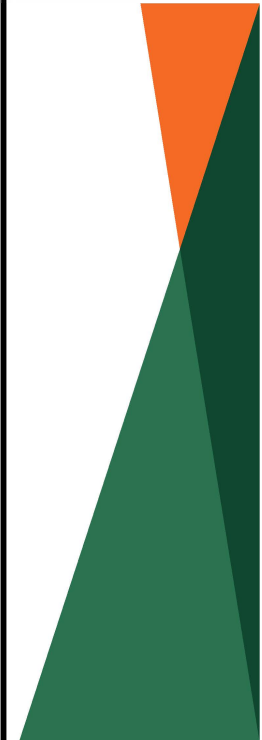
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Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B99	15	723.3	5179338	565760
B100	15	725.7	5179350	565759
B101	15	729.3	5179366	565759
B102	15	733.5	5179379	565758



Denotes Boring Location

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Duluth, MN 55807
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braunintertec.com



Drawing Information

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B2410032
Drawing No:
Boring Location Sketch
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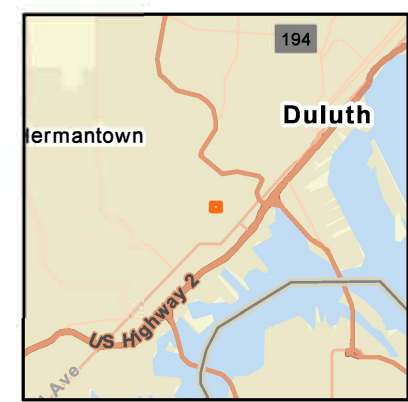
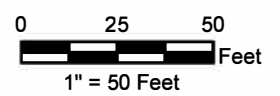
Project Information

Duluth Water Main
Extension - Lincoln 1

Lincoln Park

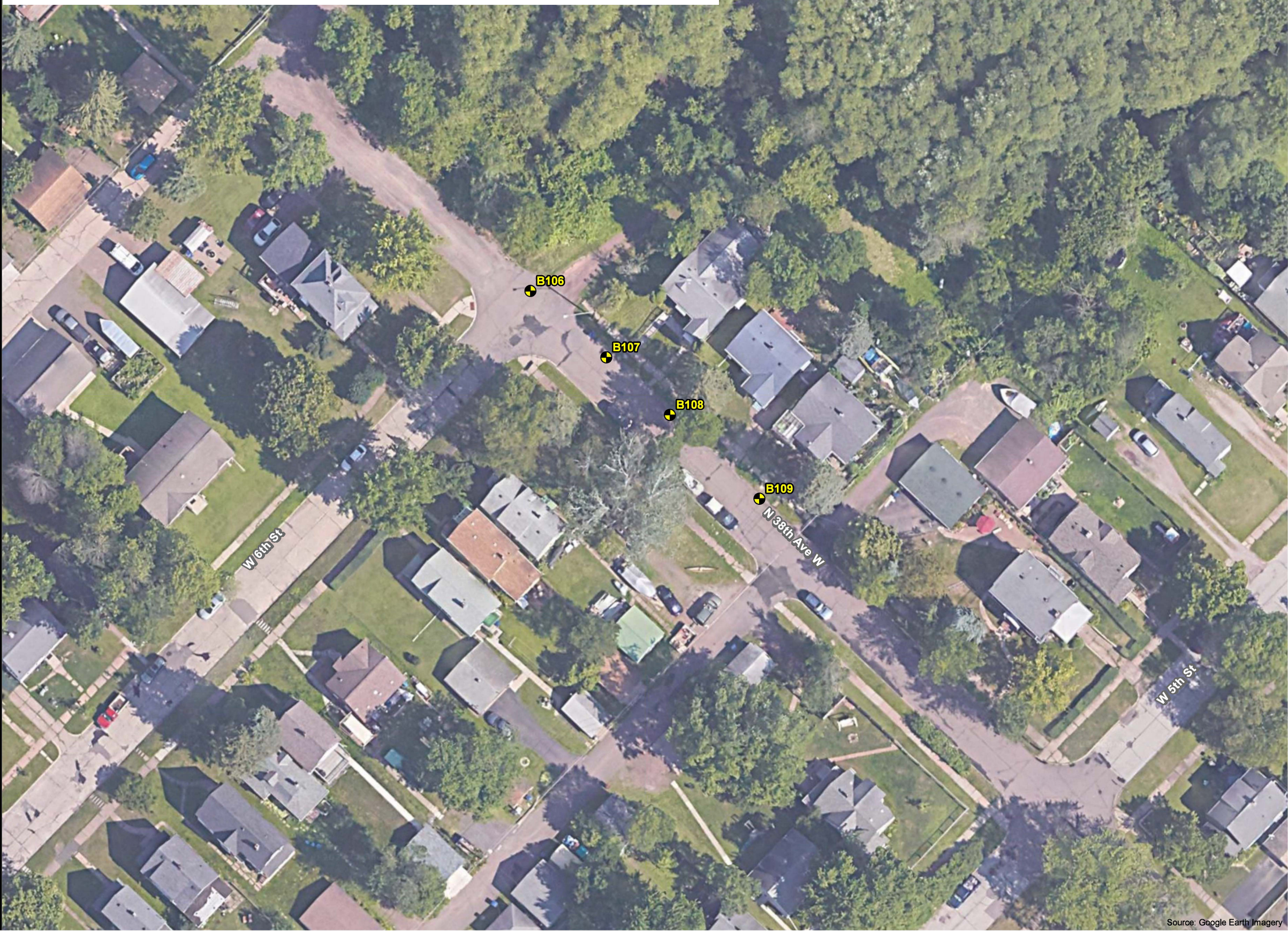
Duluth, Minnesota

Boring Location
Sketch



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Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B106	15	659.5	5178356	564783
B107	15	660.3	5178346	564795
B108	15	660.0	5178338	564804
B109	15	658.4	5178325	564818



Denotes Boring Location

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Drawing Information

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B2410032

Drawing No:
Boring Location Sketch

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Date Drawn: 11/14/2024
Checked By: KW
Last Modified: 11/14/2024

Project Information

Duluth Water Main
Extension - Lincoln 1

Lincoln Park

Duluth, Minnesota

Boring Location
Sketch

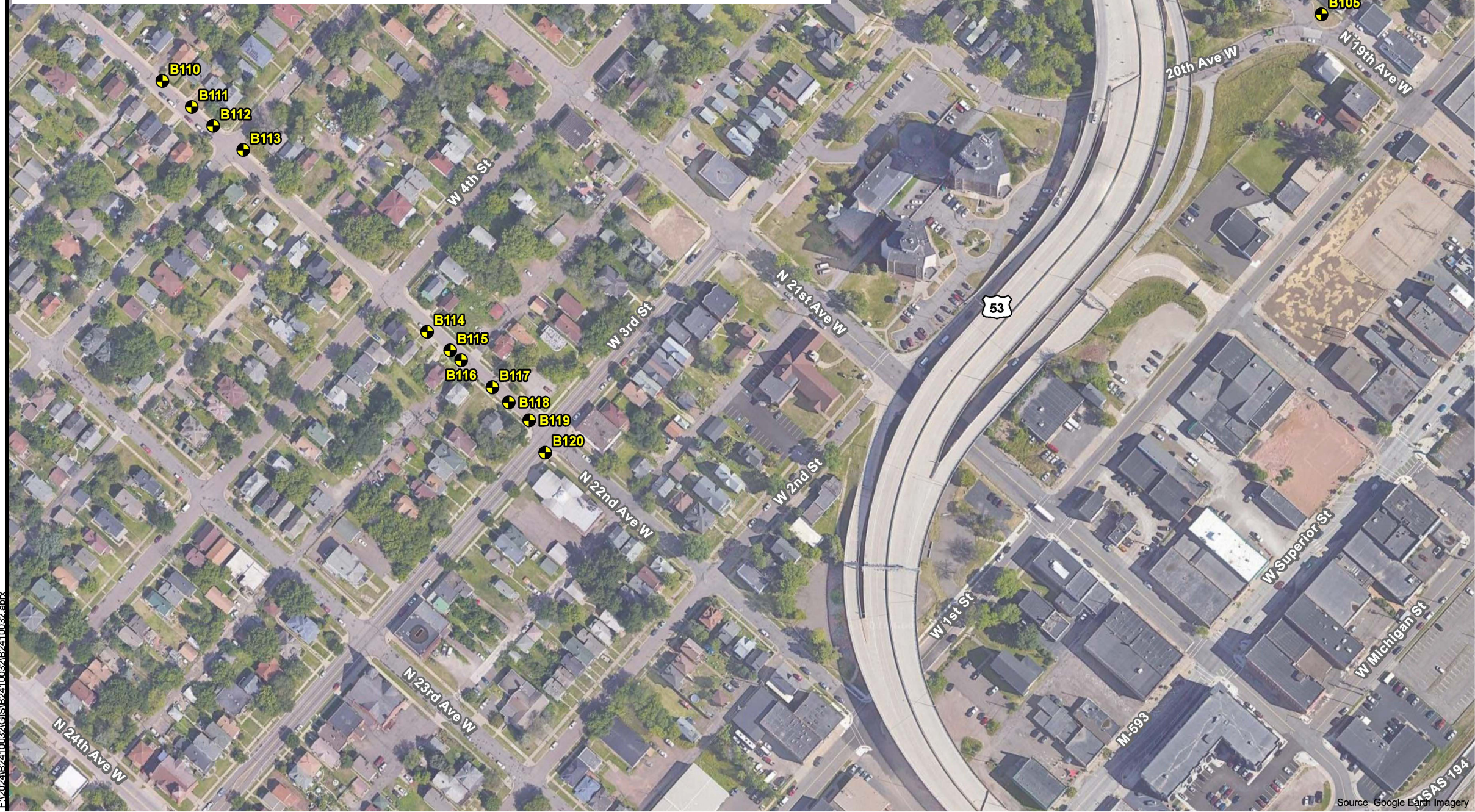


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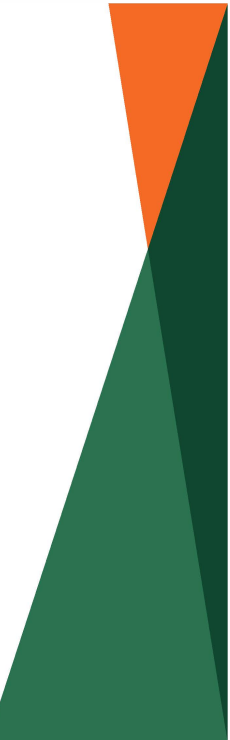
Source: Google Earth Imagery

Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B103	15	658.8	5180008	566885
B104	15	652.8	5179988	566904
B105	15	645.9	5179974	566918
B110	13*	766.5	5179935	566316
B111	11*	759.0	5179922	566331
B112	4*	753.8	5179912	566343
B113	5*	749.1	5179900	566358
B114	2 1/2*	686.7	5179806	566454
B115	5*	679.5	5179796	566466
B116	7 1/2*	675.9	5179791	566472
B117	15	667.5	5179777	566489
B118	13*	662.7	5179769	566497
B119	7*	657.0	5179760	566508
B120	15	653.2	5179743	566516

* = Refusal



● Denotes Boring Location



Drawing Information

Project No:
B2410032
Drawing No:
Boring Location Sketch
Drawn By: ZS
Date Drawn: 11/14/2024
Checked By: KW
Last Modified: 11/14/2024

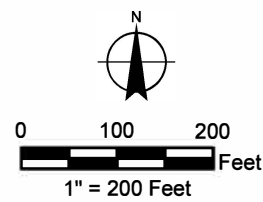
Project Information

Duluth Water Main
Extension - Lincoln 1

Lincoln Park

Duluth, Minnesota

Boring Location
Sketch



E:\2024\B2410032\GIS\B2410032\B2410032.aprx

Source: Google Earth Imagery

December 9, 2024

Project B2410030

Mr. Jon Maruska
City of Duluth
411 West 1st Street, Room 107
Duluth, MN 55802

Re: Subsurface Investigation
Duluth Water Main Extension – Lincoln Park 3
North 26th Ave West, North 27th Ave West, North 25th Ave West, North 23rd Avenue West
Duluth, Minnesota

Dear Mr. Maruska:

Braun Intertec Corporation is pleased to provide this letter report for the Lincoln Park 3 portion of the Water Main Extension project in Duluth, Minnesota.

Scope of Services

The City of Duluth is planning to install new water main utilities at various locations throughout Duluth. The design concern is the potential for bedrock being encountered above the planned invert depth of the water main. Our investigation was intended to determine the apparent bedrock depth at the planned exploration locations.

We performed our scope of services for the project in accordance with Purchase Order 2024-00000616 from the City of Duluth. The following list describes the geotechnical tasks completed in accordance with our authorized scope of services.

- Staking and clearing the exploration location of underground utilities. LHB, Inc. selected, and we staked the exploration locations. We acquired the surface elevations and locations with GPS technology using the State of Minnesota's permanent GPS base station network.
- Performing fifteen (15) direct push probes, denoted as B1 to B15 to nominal depths of 15 feet or refusal, whichever occurred first.
- Noting any groundwater that was observed during each probe.

- Providing a letter summarizing the depth of each probe.

Results

Direct push probes were conducted at 15 locations as shown on the location sketches attached to this letter. The results are summarized below and on the attached sheets.

North 26th Avenue West: Probes B4 through B6 were conducted on North 26th Avenue West between West 3rd Street and West 4th Street. Refusal was not encountered at any of these locations. All of the probes were extended to a depth of 15 feet. Groundwater was not observed in these probes.

North 27th Avenue West: Probes B1 through B3 were conducted on North 27th Avenue West between West 2nd Street and West 3rd Street. Refusal was not encountered at any of these locations. All of the probes were extended to a depth of 15 feet. Groundwater was not observed in these probes.

North 25th Avenue West: Probes B7 through B9 were conducted on North 25th Avenue West from West 8th Street to the dead end to the north. Refusal was not encountered at any of these locations. All of the probes were extended to a depth of 15 feet. Groundwater was not observed in these probes.

North 23rd Avenue West: Probes B10 through B15 were conducted on North 23rd Avenue West between West 2nd Street and West Superior Street. Refusal was not encountered at any of these locations. All of the probes were extended to a depth of 15 feet. Groundwater was not observed in these probes.

Refusal was not encountered at any of the probe locations, all probes were extended to the planned termination depth of 15 feet. Refusal is defined as the point which the direct push probe could not be advanced further without excessive effort. Refusal can be caused by hardpan, cobbles, boulders, or bedrock.

Groundwater

It should be noted that groundwater may take several hours or days to seep in to and stabilize in an open hole, and our probes were backfilled immediately. Seasonal and annual fluctuations should also be anticipated.

General

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

To have questions answered or schedule a time to meet and discuss our approach to this project further, please contact Kyle Warmuth (kwarmuth@braunintertec.com) at 218.624.4967.

Sincerely,

BRAUN INTERTEC CORPORATION



Kyle P. Warmuth, PE
Project Engineer



Steven A. Thayer, PE
Senior Manager, Senior Engineer

Attachments:

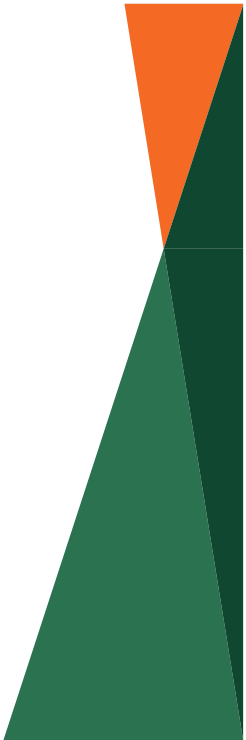
Direct Push Location Sketch with Refusal Depths (3 pages)

Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B1	15	644.9	5179158	566128
B2	15	646.1	5179473	566614
B3	15	648.0	5179482	566604
B4	15	666.0	5179490	566596
B5	15	666.4	5179555	566539
B6	15	675.2	5179566	566526



● Denotes Boring Location

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Drawing Information

Project No:
B2410030
Drawing No:
Boring Location Sketch
Drawn By: ZS
Date Drawn: 11/14/2024
Checked By: KW
Last Modified: 11/14/2024

Project Information

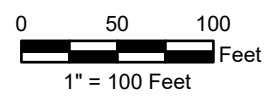
Duluth Water Main
Extension - Lincoln 3

Lincoln Park

Duluth, Minnesota

Boring Location
Sketch

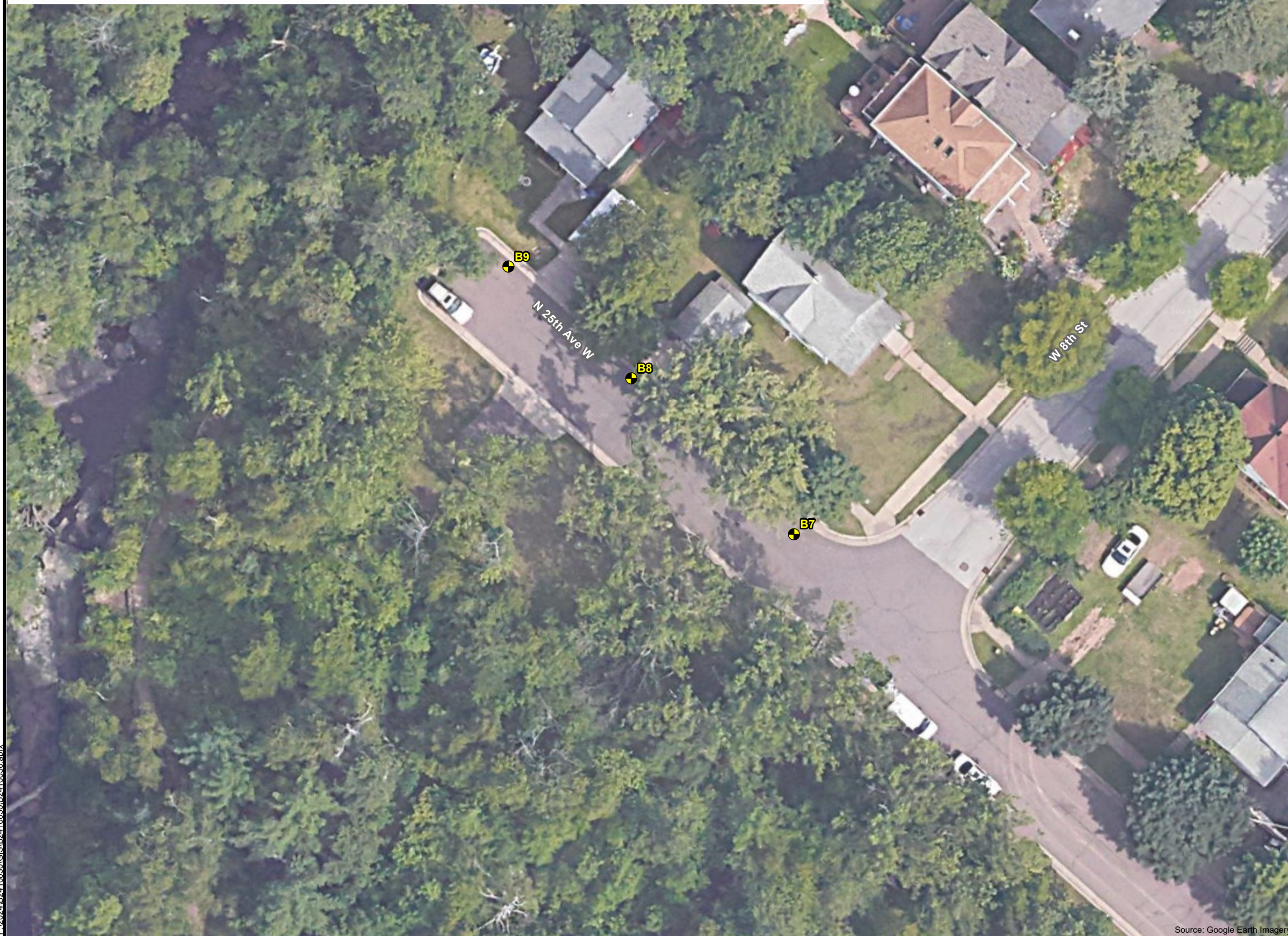
Sheet:
1 of 3



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Source: Google Earth Imagery

Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B7	15	817.8	5179575	566517
B8	15	819.3	5179166	566119
B9	15	820.0	5179178	566105



Source: Google Earth Imagery

Denotes Boring Location



Drawing Information

Project No:
B2410030

Drawing No:
Boring Location Sketch

Drawn By: ZS
Date Drawn: 11/14/2024
Checked By: KW
Last Modified: 11/14/2024

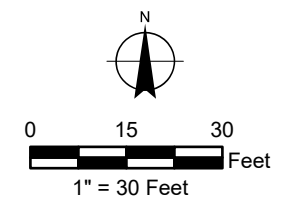
Project Information

Duluth Water Main
Extension - Lincoln 3

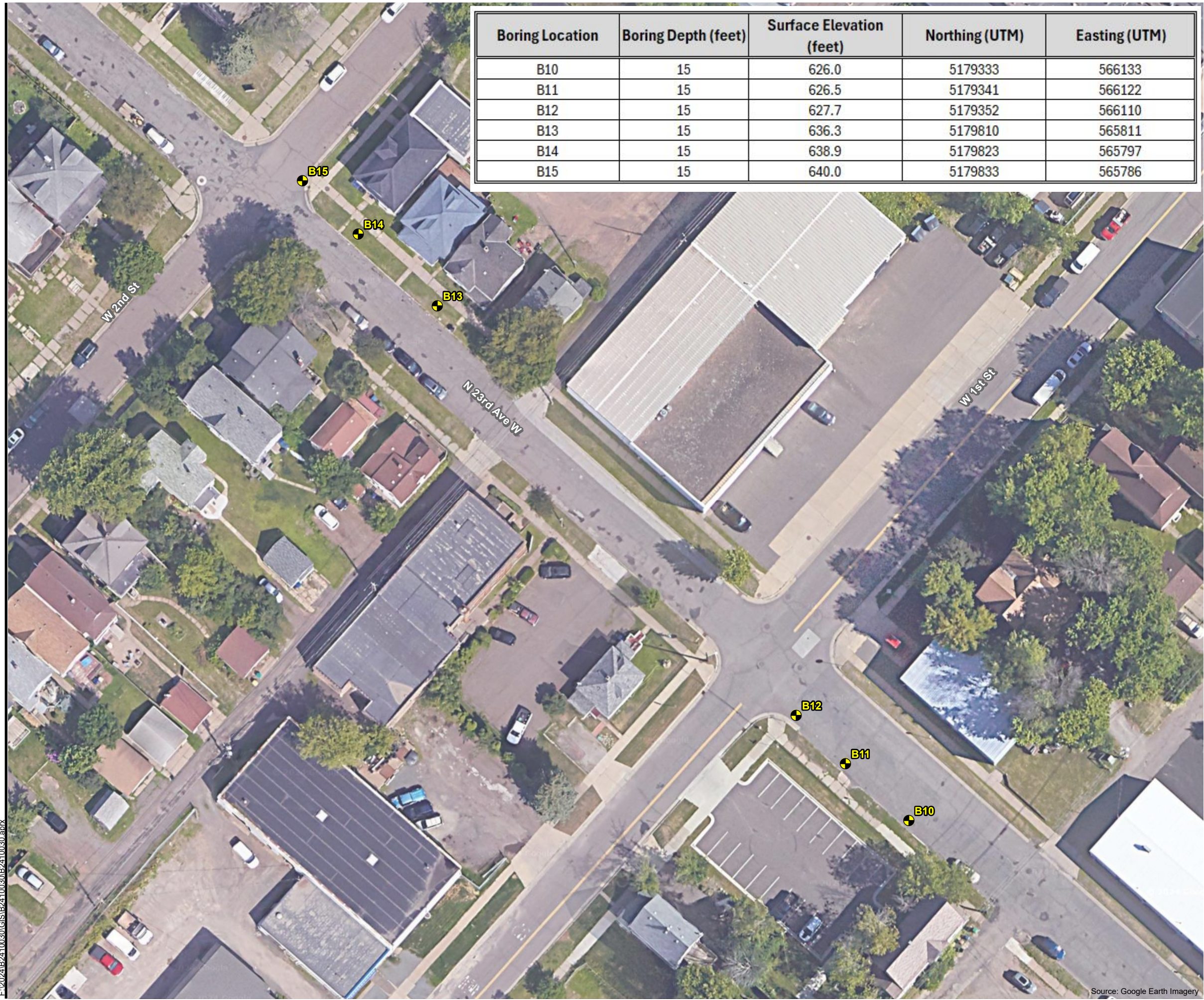
Lincoln Park

Duluth, Minnesota

Boring Location
Sketch

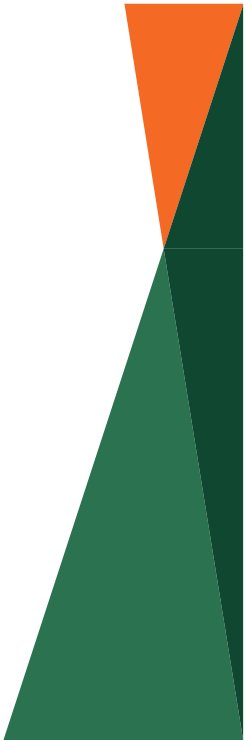


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Boring Location	Boring Depth (feet)	Surface Elevation (feet)	Northing (UTM)	Easting (UTM)
B10	15	626.0	5179333	566133
B11	15	626.5	5179341	566122
B12	15	627.7	5179352	566110
B13	15	636.3	5179810	565811
B14	15	638.9	5179823	565797
B15	15	640.0	5179833	565786

● Denotes Boring Location



Drawing Information

Project No:
B2410030
Drawing No:
Boring Location Sketch
Drawn By: ZS
Date Drawn: 11/14/2024
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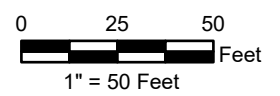
Project Information

Duluth Water Main
Extension - Lincoln 3

Lincoln Park

Duluth, Minnesota

Boring Location
Sketch



F:\2024\B2410030\GIS\B2410030\B2410030.aprx

Source: Google Earth Imagery