



AGREEMENT

TRANSMITTAL

To: City of Duluth
 411 W 1st Street
 Room 240
 Duluth, MN 55802

Date: November 17, 2023 Project No. 230852
 Attention: Brad Scott Task/Subtask: N/A
 Re: Duluth Hillside Tunnel Repairs

These are transmitted as checked below:

Mail

- Priority
- First Class

Other

- Pick-up
- Hand-delivered
- Email

Courier

- Regular
- Rush

FedEx

- FedEx Priority Overnight – 10:30 a.m.
- FedEx Standard Overnight – 4:30 p.m.
- FedEx – 2nd Day
- FedEx - Ground

If a transmittal method is not checked above, it will be sent by First Class Mail.

QUANTITY	NUMBER	DESCRIPTION
1		Fee Estimate
1		2024 Culvert Repair Scope Map
1		2024 Culvert Repair Estimate
1		2024 Culvert Work Scope with Photos

Sent for:

- Your approval
- Your use
- As requested
- Review and comment

Remarks:

Brad – Attached is our fee estimate for the 2024 Hillside Culvert Repair design. Our fee assumes developing biddable plans for the culvert repairs as discussed in our meeting on November 9, 2023 and as outlined in the documents sent be email on Friday November 11, 2023 (also attached). Please reach out if you have any comments or questions.

Copy To: JWS, Project File

Signed: Christopher J. Miller – 218-249-2495





2023 FEE ESTIMATE WORKSHEET

Project Name Duluth Hillside Creek Culvert Repairs
Client City of Duluth
Preparer Chris Miller

Project Number 230852
Date November 14, 2023

Project Breakdown Task Description	P1	P3	P4	P5	P7	P9	P13	T1	T5	T7	T7	T10	T12	Total Labor Costs (\$)
	Project Principal	Project Principal	Profess. Eng.	Profess. Eng.	Profess. Eng.	Profess. Eng.	Profess. Eng.	Senior Tech.	Senior Tech.	Lead Tech.	Inter. Tech.	Tech.	Tech.	
Task 1 - Project Management	\$ 240	\$ 205	\$ 180	\$ 170	\$ 150	\$ 125	\$ 100	\$ 130	\$ 100	\$ 90	\$ 90	\$ 75	\$ 65	\$ -
Project Management (6 Months Assumed)		6												\$ 1,230.00
Coordination Meeting (3 Assumed)		3			3	3								\$ 1,440.00
Meeting Agenda and Minutes					3									\$ 450.00
Task 2 - Supplemental Field Investigations					20	20								\$ 5,500.00
Task 3 - Detail Design and Plans														\$ -
Title Sheet					1				2					\$ 350.00
General Notes and SEQ		1			2	8			16					\$ 3,105.00
Overall Location Map		1			2				4					\$ 905.00
Brewery Creek Location Map					1				2					\$ 350.00
Coffee Creek Location Map					1				2					\$ 350.00
Buckingham Creek Location Map					1				2					\$ 350.00
Brewery Creek														\$ -
Update Design & Plan from Previous Project		1			8				16					\$ 3,005.00
Coffee Creek														\$ -
Location 1 Map					1				1					\$ 250.00
Location 2 Map					1				1					\$ 250.00
Update Location 1 Details		1			1	2			8					\$ 1,405.00
Update Location 2 Details		1			1	2			8					\$ 1,405.00
Buckingham Creek														\$ -
Individual Location Maps (5 Total)		1			2	4			8					\$ 1,805.00
Buckingham Creek - Location 1 (20+00 - 20+77)														\$ -
Wall Elevation		1			2	2			8					\$ 1,555.00
Existing Section at Catch Basin		1			2				8					\$ 1,305.00
Proposed Section at Catch Basin		1			2				8					\$ 1,305.00
Catch Basin Details/Reinforcement		2			4	2			8					\$ 2,060.00
Miscellaneous Detail		2			2				6					\$ 1,310.00
Road Reconstruction Details		1			1	4			6					\$ 1,455.00
Buckingham Creek - Location 2 (30+00 - 31+17)														\$ -
Concrete Floor Details		2			2	2			8					\$ 1,760.00
Concrete Surface Repair at Manhole		1			2	4			8					\$ 1,805.00
Slope Stabilization (3 sheets)		2			4	12			24					\$ 4,910.00
Buckingham Creek - Location 3 (70+00 - 71+30)														\$ -
Concrete Floor Details		1			2	2			8					\$ 1,555.00
Existing Section at Catch Basin		1			2				8					\$ 1,305.00
Proposed Section at Catch Basin		1			2				8					\$ 1,305.00
Catch Basin Details/reinforcement		2			4	2			8					\$ 2,060.00
Miscellaneous Detail		2			4				8					\$ 1,810.00
Road Reconstruction Details		2			2	8			16					\$ 3,310.00
Buckingham Creek - Location 4 (80+00 - 82+52)														\$ -
Culvert Plan and Elevation		1			4				8					\$ 1,605.00
Culvert Sections		1			2	6			8					\$ 2,055.00
Culvert Wall Elevations		2			2	2			8					\$ 1,760.00
Misc. Details		2			4				8					\$ 1,810.00
Buckingham Creek - Location 5 (111+00 - 111+78)														\$ -
Culvert Plan and Elevation		1			4				8					\$ 1,605.00
Culvert Sections		1			2	6			8					\$ 2,055.00
Culvert Wall Elevations		2			2	2			8					\$ 1,760.00
Misc. Details		2			4				8					\$ 1,810.00
Task 4 - Technical														\$ -
Project Special Provisions		6			16									\$ 3,630.00
Engineer's Estimates (Est 3)		2			8									\$ 1,610.00
Project Bidding Assistance					4									\$ 600.00
														\$ -
														\$ -
														\$ -
														\$ -
														\$ -
														\$ -
Total Hours	-	57	-	-	137	93	-	-	274	-	-	-	-	\$ -

Travel Expenses	Qty	Rate	Cost	Other Direct Expenses	Cost	Labor Cost	Travel Costs	Direct Costs
Mileage	50	0.66	32.75	Mail / Delivery				
				Printing				
				Other				
Total Travel Costs			32.75	Total Direct Costs	-	Total Estimated Cost		\$ 71,292.75

Brewery Creek



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
NAME: Christopher J. Miller LIC. NO. 49840 DATE 07/13/2023
CHRISTOPHER J. MILLER

TITLE: **AERIAL & SECTIONS**
(STA. 20+00 - 33+00)

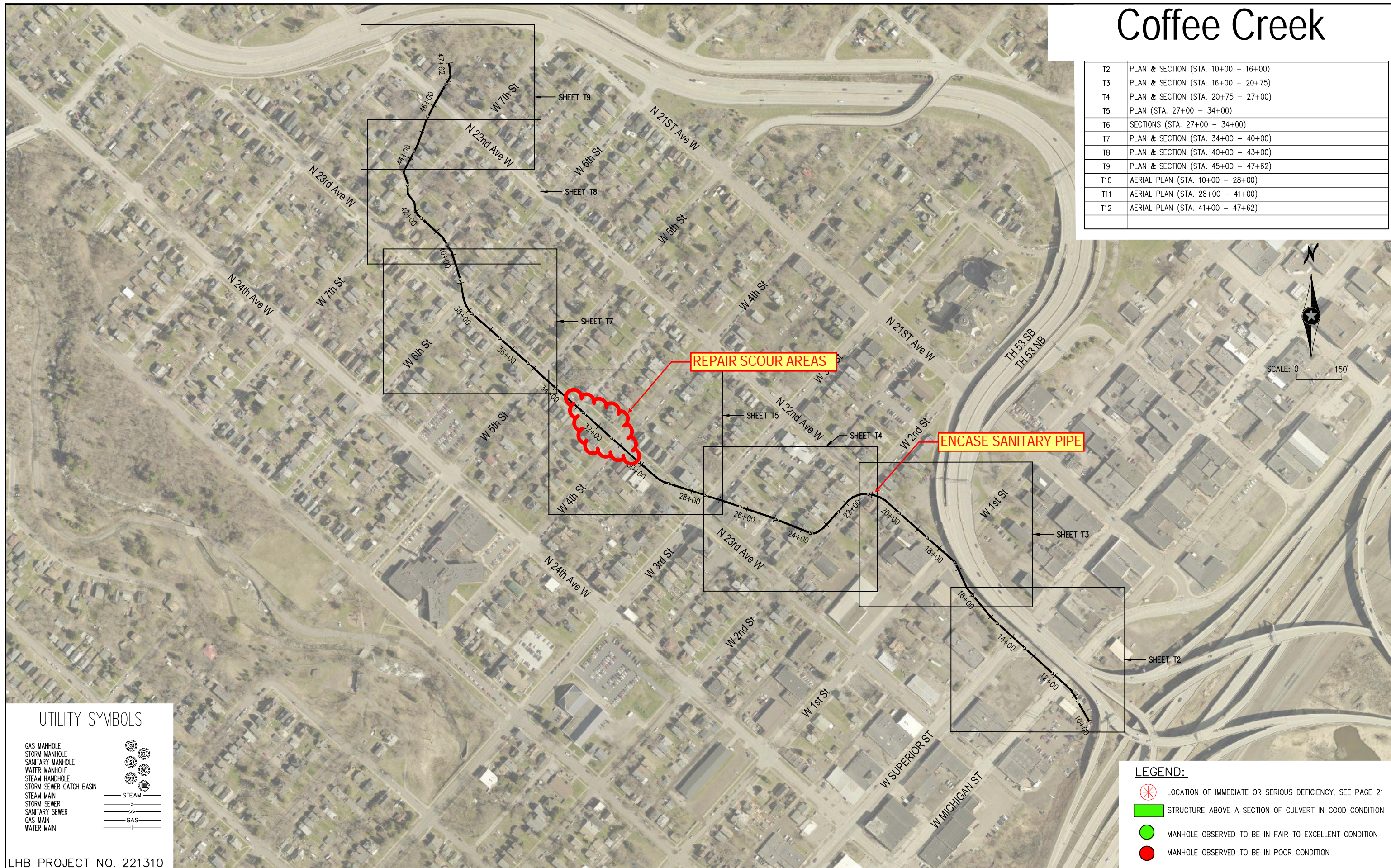
DES:	DR: JRM	APPROVED:
CHK:	CHK: CJM	

Sheet No. **T13** of 15 Sheets

Bridge No. **BREWERY**

Coffee Creek

T2	PLAN & SECTION (STA. 10+00 - 16+00)
T3	PLAN & SECTION (STA. 16+00 - 20+75)
T4	PLAN & SECTION (STA. 20+75 - 27+00)
T5	PLAN (STA. 27+00 - 34+00)
T6	SECTIONS (STA. 27+00 - 34+00)
T7	PLAN & SECTION (STA. 34+00 - 40+00)
T8	PLAN & SECTION (STA. 40+00 - 43+00)
T9	PLAN & SECTION (STA. 45+00 - 47+62)
T10	AERIAL PLAN (STA. 10+00 - 28+00)
T11	AERIAL PLAN (STA. 28+00 - 41+00)
T12	AERIAL PLAN (STA. 41+00 - 47+62)



SCALE: 0 150'

UTILITY SYMBOLS

GAS MANHOLE	
STORM MANHOLE	
SANITARY MANHOLE	
WATER MANHOLE	
STEAM HANDHOLE	
STORM SEWER CATCH BASIN	
STEAM MAIN	
STORM SEWER	
SANITARY SEWER	
GAS MAIN	
WATER MAIN	

LEGEND:

	LOCATION OF IMMEDIATE OR SERIOUS DEFICIENCY, SEE PAGE 21
	STRUCTURE ABOVE A SECTION OF CULVERT IN GOOD CONDITION
	MANHOLE OBSERVED TO BE IN FAIR TO EXCELLENT CONDITION
	MANHOLE OBSERVED TO BE IN POOR CONDITION

LHB PROJECT NO. 221310

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

CHRISTOPHER J. MILLER
PRINTED NAME

SIGNATURE

11/2023
DATE

49840
LIC. NO.

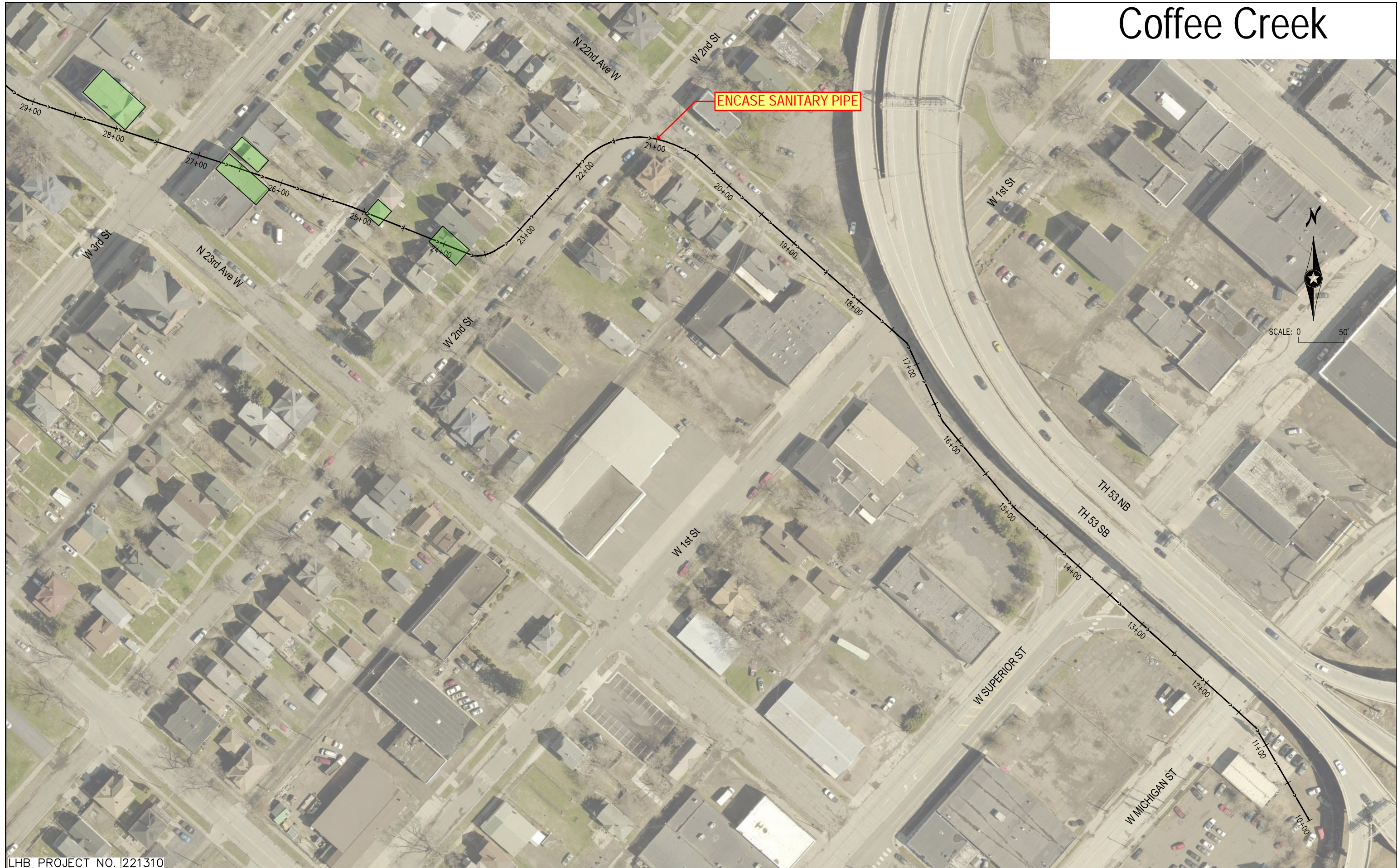
CITY PROJECT NO. 2124

COFFEE CREEK CONDITION STUDY

GENERAL PLAN

SHEET NO. T1 OF 12 SHEETS

Coffee Creek



LHB PROJECT NO. 221310

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

CHRISTOPHER J. MILLER
PRINTED NAME

SIGNATURE

11/15/2023
DATE
49840
LIC. NO.

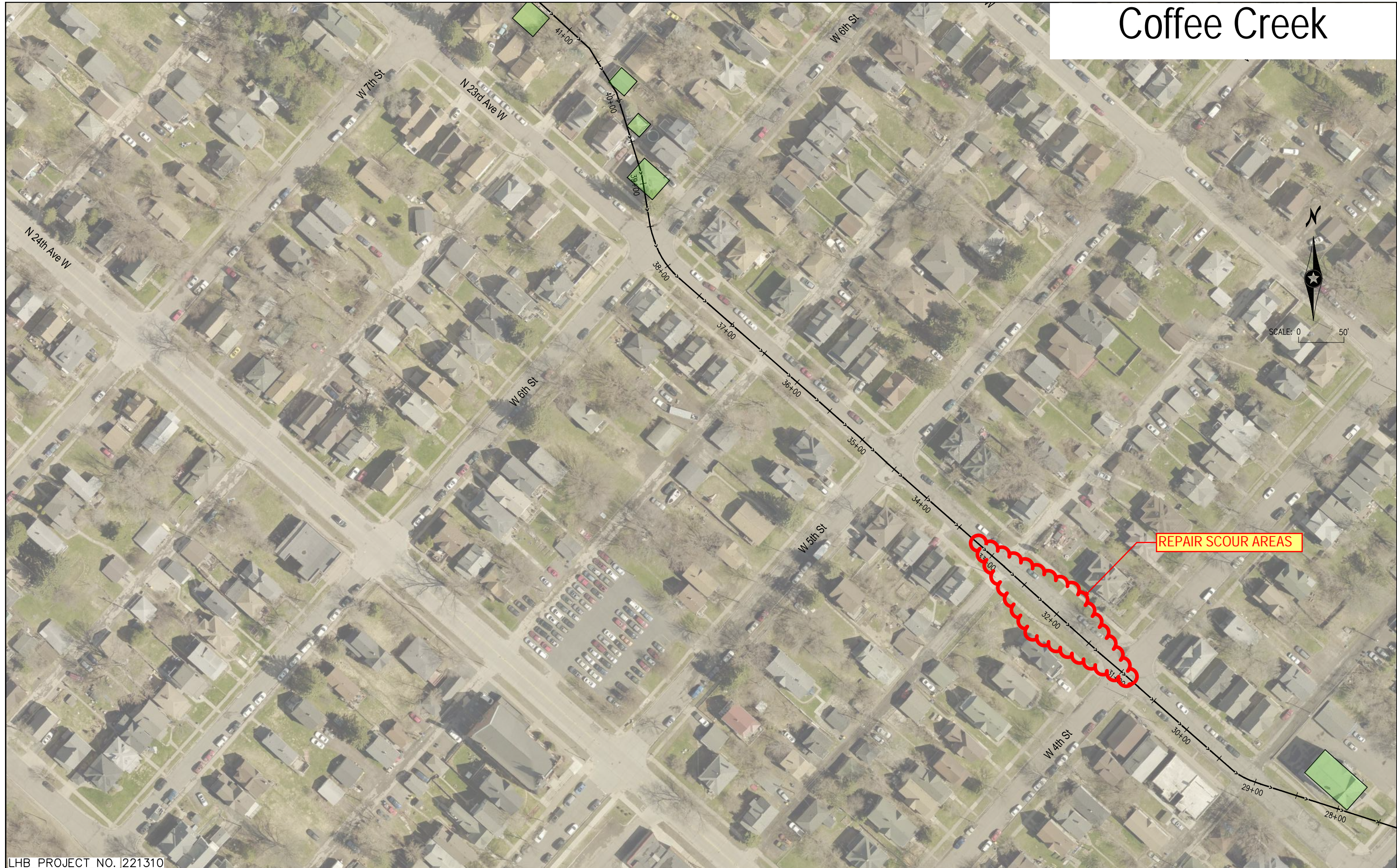
CITY PROJECT NO. 2124

COFFEE CREEK CONDITION STUDY

AERIAL PLAN (STA 10+00 - 28+00)

SHEET NO. T10 OF 12 SHEETS

Coffee Creek



LHB PROJECT NO. 221310

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CHRISTOPHER J. MILLER
PRINTED NAME

SIGNATURE

11/2023
DATE
49840
LIC. NO.

CITY PROJECT NO. 2124

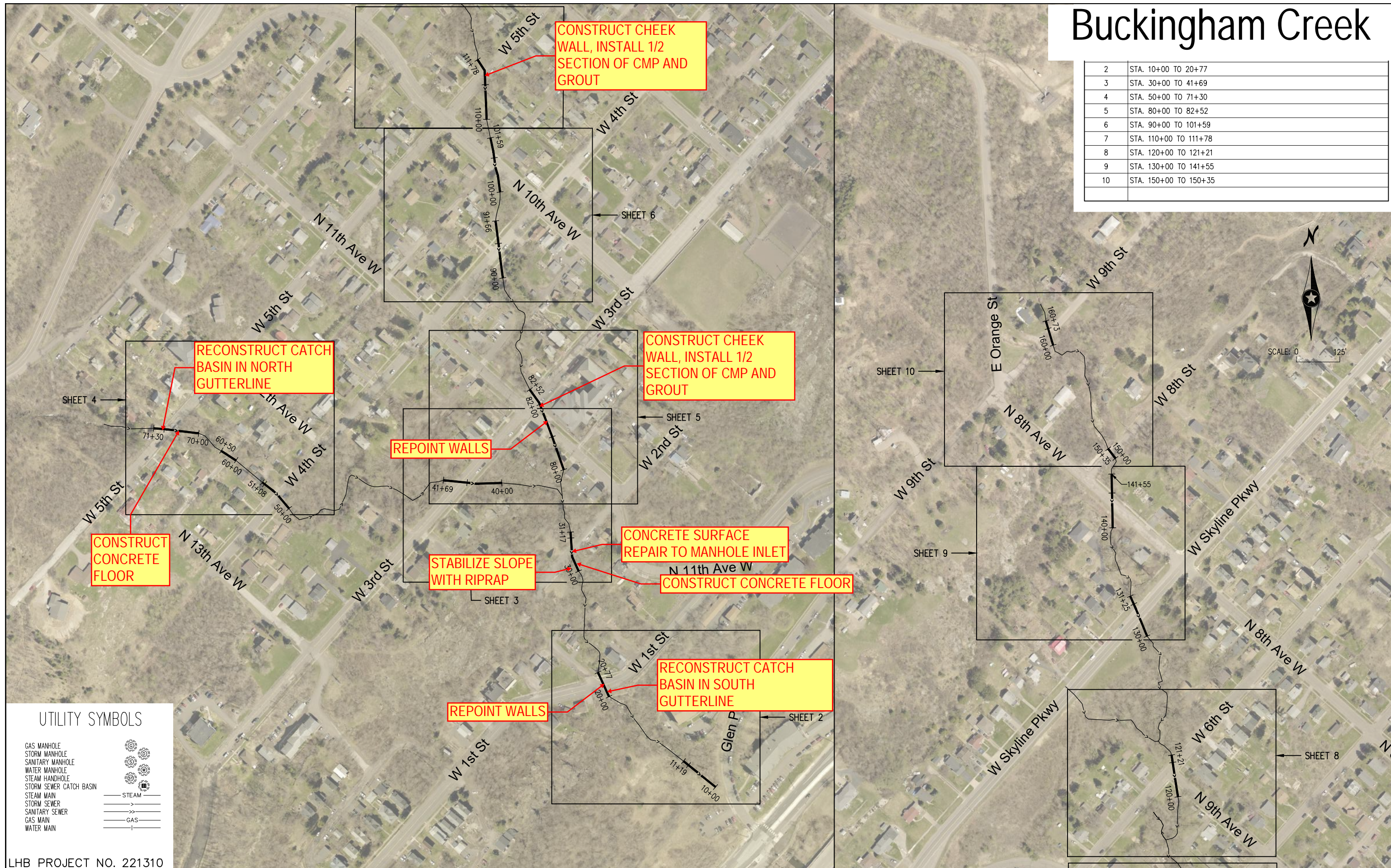
COFFEE CREEK CONDITION STUDY

AERIAL PLAN (STA 28+00 - 41+00)

SHEET NO. T11 OF 12 SHEETS

Buckingham Creek

2	STA. 10+00 TO 20+77
3	STA. 30+00 TO 41+69
4	STA. 50+00 TO 71+30
5	STA. 80+00 TO 82+52
6	STA. 90+00 TO 101+59
7	STA. 110+00 TO 111+78
8	STA. 120+00 TO 121+21
9	STA. 130+00 TO 141+55
10	STA. 150+00 TO 150+35



UTILITY SYMBOLS

GAS MANHOLE	
STORM MANHOLE	
SANITARY MANHOLE	
WATER MANHOLE	
STEAM HANDHOLE	
STORM SEWER CATCH BASIN	
STEAM MAIN	
STORM SEWER	
SANITARY SEWER	
GAS MAIN	
WATER MAIN	

LHB PROJECT NO. 221310

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PRINTED NAME

SIGNATURE

DATE
LIC. NO.

CITY PROJECT NO. 2124

BUCKINGHAM CREEK CONDITION STUDY

GENERAL PLAN

SHEET NO. 1 OF 10 SHEETS

Coffee Creek – Scoured floor



Buckingham Creek – Reconstruct Catch Basin at 20+19



Buckingham – Repoint Segment 2 since roof/catch basin in being repaired



Buckingham – Construct floor in Segment 3 & concrete surface repair at manhole if floor constructed, stabilize slope (not pictured)



Buckingham – Segment 7 – Reconstruct Catch basin/roof



Buckingham Creek – Construct floor – Segment 7



Buckingham – Repoint Segment 8 Walls



Buckingham – Segment 11 - Construct Scour walls and plate arch similar to segment 8

