	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	1

Wetland Impact Table

Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands[1]	Wetland Impacts Acre(s)		Wetland Mitigation					
							Mitigation Proposed		USACE/11990 Bank		11990 Bank	
					Temp.	Perm.	EO 11990	USACE	Location	Acre(s)	Location	Acre(s)
1A	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.007	0.038	N	N				
1B	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.002	0.014	N	N				
1C	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.001	0.005	N	N				
1D	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.001	0.001	N	N				
1E	Sec 33 T-140-N R-49-W	Ditch	Created	N		0.021	N	N				
1F	Sec 33 T-140-N R-49-W	Ditch	Created	N		0.030	N	N				
1G	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.012	0.057	N	N				
1H	Sec 33 T-140-N R-49-W	Ditch	Created	N		0.005	N	N				
1I	Sec 33 T-140-N R-49-W	Ditch	Created	N		0.183	N	N				
1J	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.005	0.137	N	N				
1K	Sec 33 T-140-N R-49-W	Ditch	Created	N		0.015	N	N				
1L	Sec 33 T-140-N R-49-W	Ditch	Created	N		0.037	N	N				
1M	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.006	0.086	N	N				
1N	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.071	0.169	N	N				
1O	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.016	0.071	N	N				
1P	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.177	0.572	N	N				
1Q	Sec 33 T-140-N R-49-W	Ditch	Created	N	0.005	0.089	N	N				
2A	Sec 32 T-140-N R-49-W	Ditch	Created	N		0.115	N	N				
2B	Sec 32 T-140-N R-49-W	Ditch	Created	N	0.002	0.016	N	N				
2C	Sec 32 T-140-N R-49-W	Ditch	Created	N		0.016	N	N				
2D	Sec 32 T-140-N R-49-W	Ditch	Created	N		0.059	N	N				
3A	Sec 4 T-139-N R-49-W	Ditch	Created	N		0.122	N	N				
3B	Sec 4 T-139-N R-49-W	Ditch	Created	N		0.197	N	N				
3C	Sec 4 T-139-N R-49-W	Ditch	Created	N		0.282	N	N				
3D	Sec 4 T-139-N R-49-W	Ditch	Created	N	0.007	0.138	N	N				
3E	Sec 4 T-139-N R-49-W	Ditch	Created	N	0.008	0.361	N	N				
4A	Sec 5 T-139-N R-49-W	Ditch	Created	N		0.042	N	N				
4B	Sec 5 T-139-N R-49-W	Ditch	Created	N								
5	Sec 5 T-139-N R-49-W	Ditch	Created	Y								
6	Sec 5 T-139-N R-49-W	Ditch	Created	Y								
7	Sec 4 T-139-N R-49-W	Ditch	Created	N								
8A	Sec 4 T-139-N R-49-W	Ditch	Created	Y								
8B	Sec 4 T-139-N R-49-W	Ditch	Created	Y								
9	Sec 5 T-139-N R-49-W	Ditch	Created	N		0.053	N	N				
				Totals	**0.320**	**2.931**				**0.000**		**0.000**

[1] A wetland Jurisdictional Determination was issued by the USACE on 7/7/2023; NWO-2023-00511-BIS.

Mitigation Summary Table

	Location	Ditch Shift Acre(s)	Onsite Acre(s)	11990 Bank Acre(s)	USACE/11990 Bank Acre(s)
USACE Only	NA				
EO 11990 Only	NA				
USACE/11990	NA				
Total		**0**	**0**	**0**	**0**

Impact Summary Table

Permanent Impact Summary		Temporary Impacts and additional information	
Wetland Type	Total Acre(s)	WaterType	Total Acre(s)
Natural/JD (Fill/Drain)	0.000	Temporary Wetland JD	0.000
Natural/Non-JD (Fill/Drain)	0.000	Non-JD Wetland Temporary	0.320
Artificial/JD (Fill/Drain)	0.000		
Artificial /Non-JD (Fill/Drain))	2.931	Permanent OW	0.000
Total	**2.931**	Temporary OW	0.000

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Wetland Impact & Mitigation Table

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\BN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\075 - 9th St NE Wetland Impacts.dwg-Table (1)-8/13/2025 2:19 PM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	2

MAIN AVE E

9TH ST NE

FRONTAGE RD

BEGIN RECONSTRUCTION
STA. 103+64.50 (9TH ST NE)

GRADING TIE LINE

GRADING TIE LINE

WETLAND 9
PERMANENT IMPACT: 0.053 ACRE

BEGIN EXCEPTION AREA
STA. 109+00.00 (9TH ST NE)

GRADING TIE LINE

9TH ST NE

100+00 101+00 102+00 103+00 104+00 105+00 106+00

106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00

N

30 0 30 60
Scale Feet

LEGEND

PERMANENT IMPACT

TEMPORARY IMPACT

EXISTING R/W R/W

PROPOSED RIGHT OF WAY R/W

TEMPORARY RIGHT OF WAY T-R/W

CITY OF WEST FARGO

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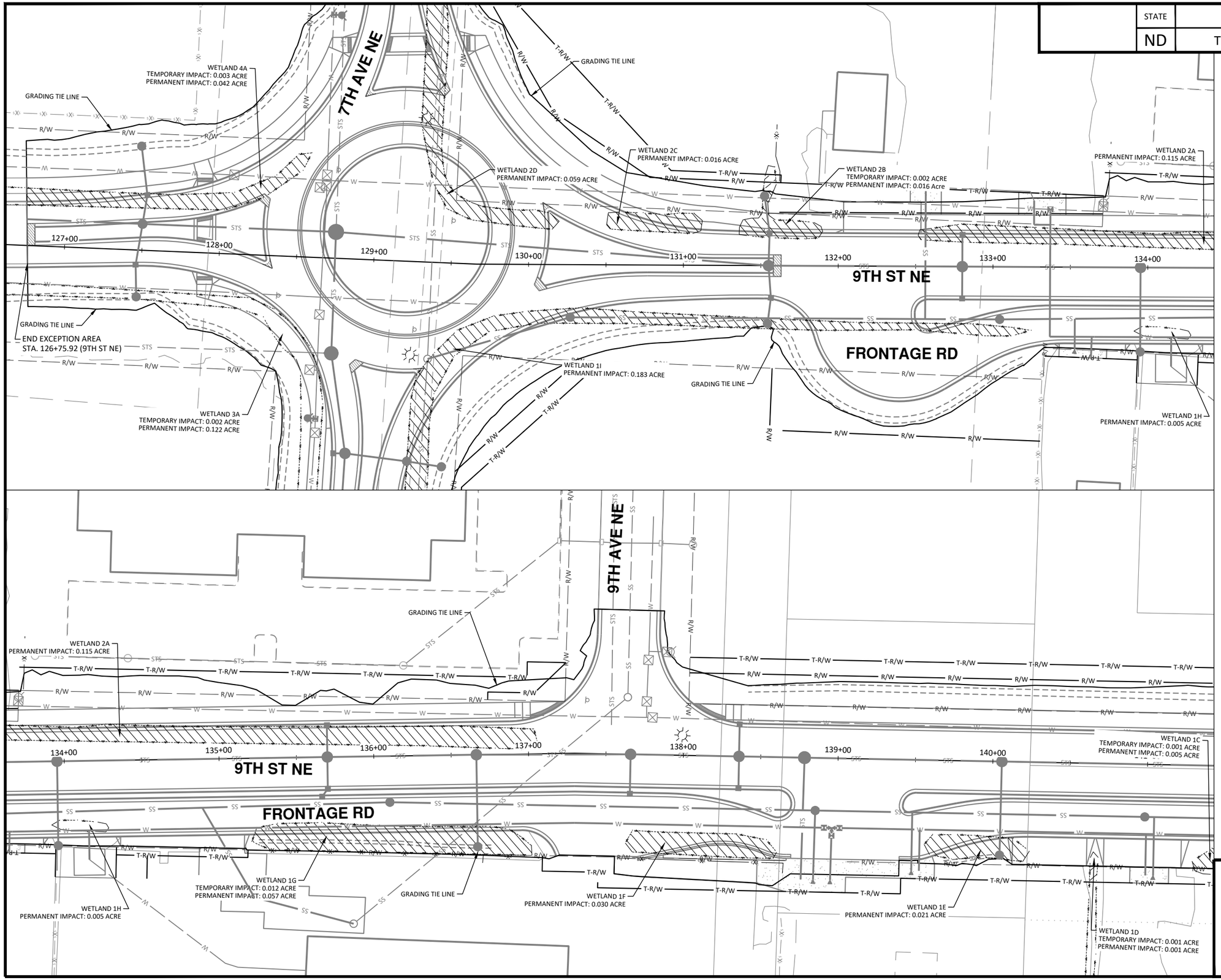
8/13/2025

Wetland Impacts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	3



N

30 0 30 60
Scale Feet

LEGEND

- PERMANENT IMPACT
- TEMPORARY IMPACT
- EXISTING R/W — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —

CITY OF WEST FARGO

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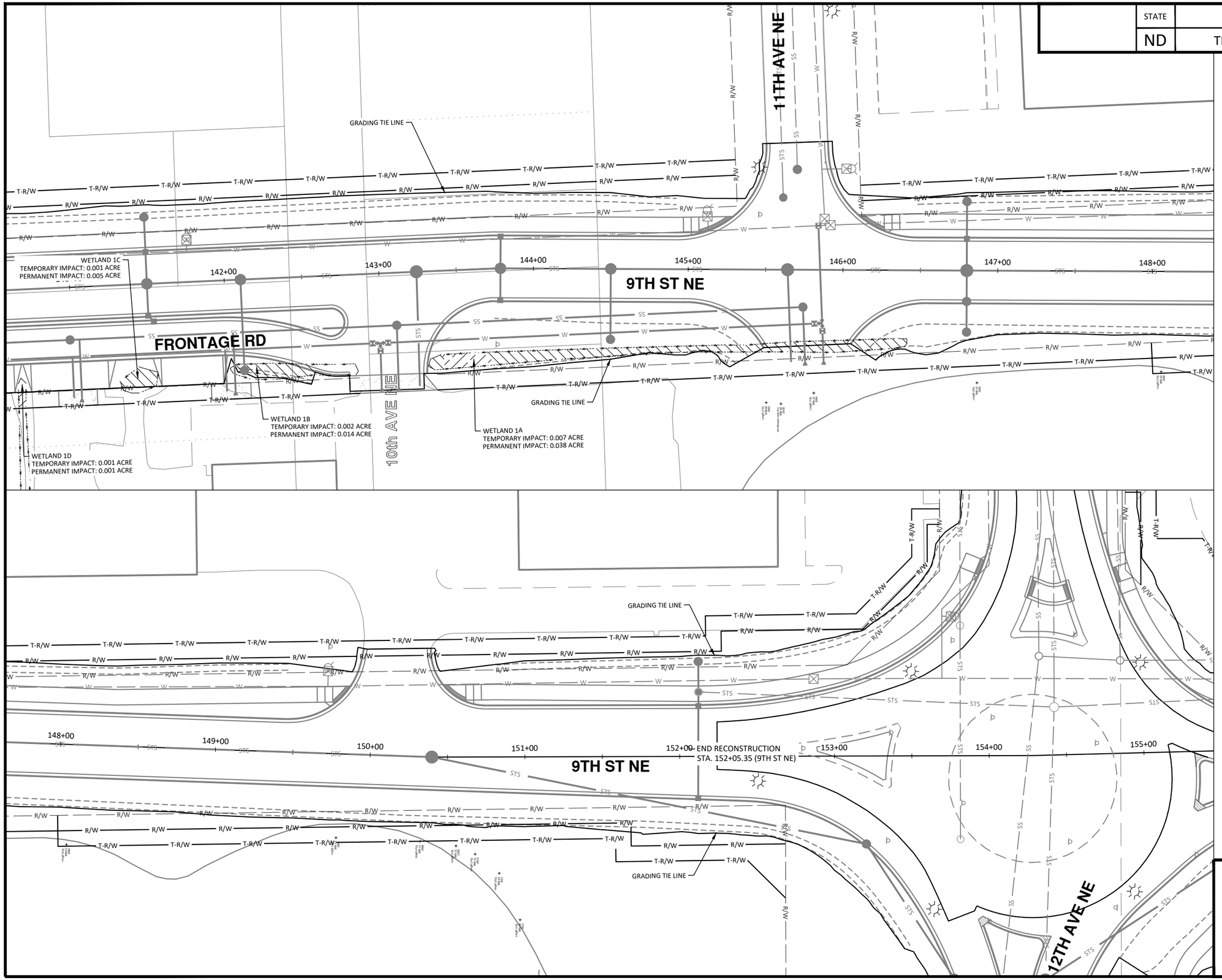
8/13/2025

Wetland Impacts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	75	4



N

30 0 30 60
Scale Feet

LEGEND

PERMANENT IMPACT

TEMPORARY IMPACT

EXISTING R/W — R/W —

PROPOSED RIGHT OF WAY — R/W —

TEMPORARY RIGHT OF WAY — T-R/W —

CITY OF WEST FARGO

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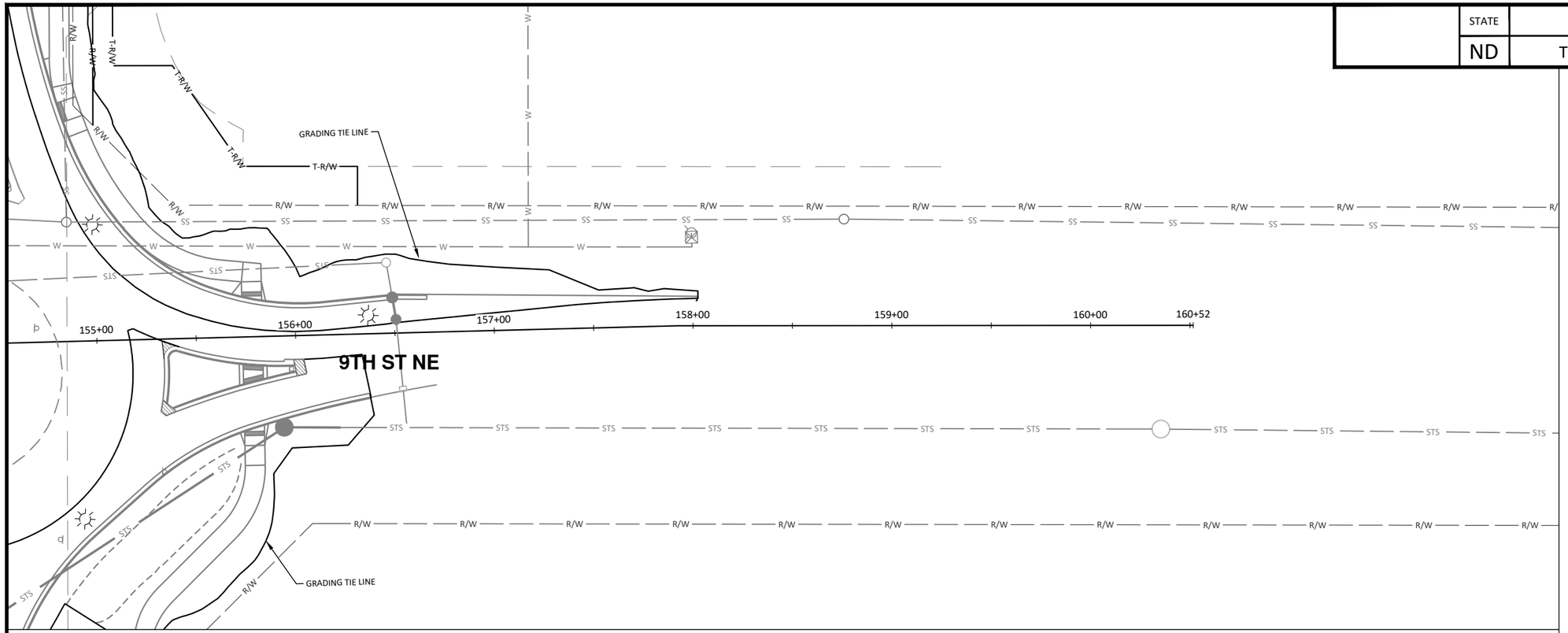
8/13/2025

Wetland Impacts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	5



N

30 0 30 60

Scale Feet

LEGEND

PERMANENT IMPACT

TEMPORARY IMPACT

EXISTING R/W — R/W —

PROPOSED RIGHT OF WAY — R/W —

TEMPORARY RIGHT OF WAY — T-R/W —

CITY OF WEST FARGO

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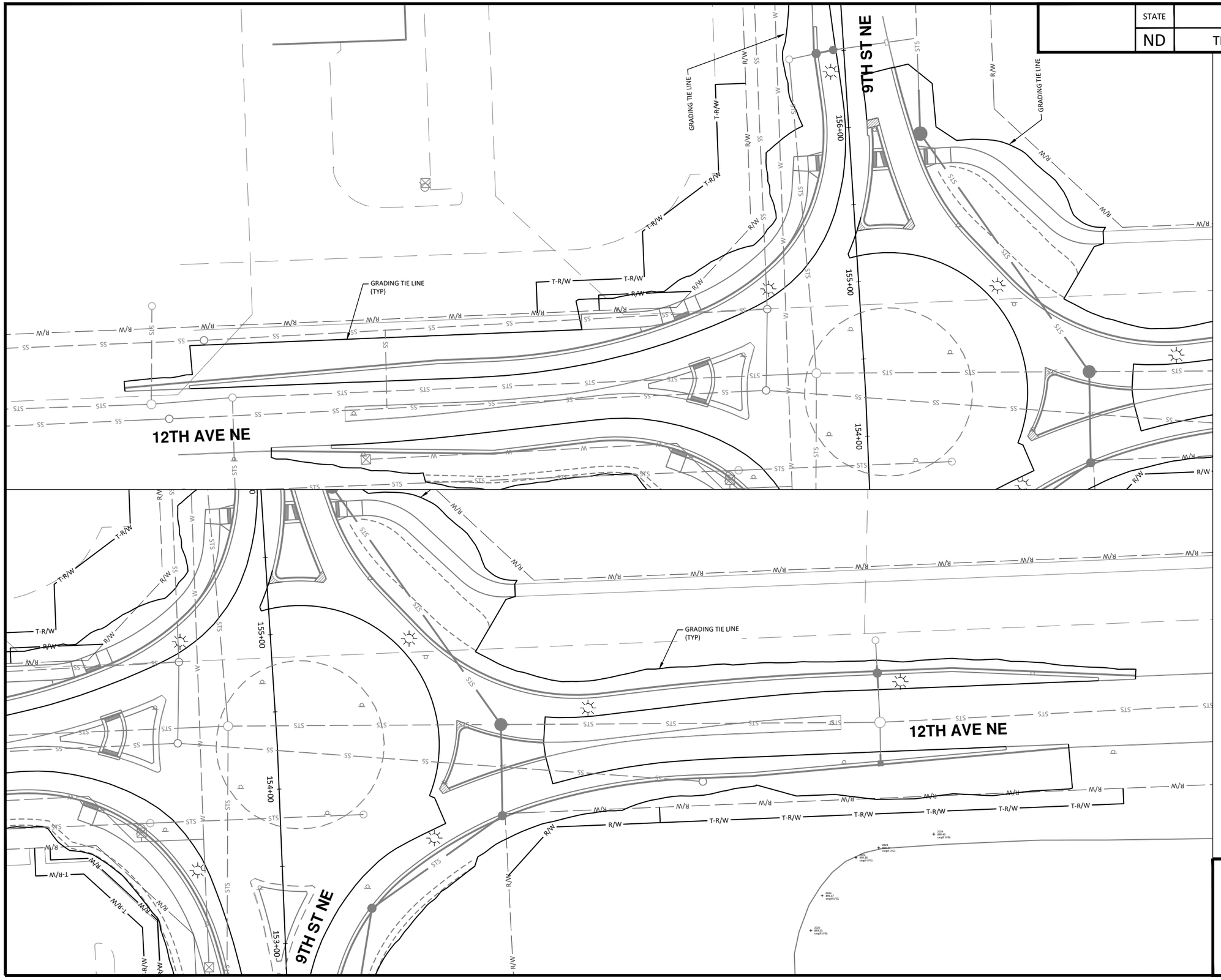
8/13/2025

Wetland Impacts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	6



LEGEND

PERMANENT IMPACT

TEMPORARY IMPACT

EXISTING R/W — R/W —

PROPOSED RIGHT OF WAY — R/W —

TEMPORARY RIGHT OF WAY — T-R/W —

CITY OF WEST FARGO

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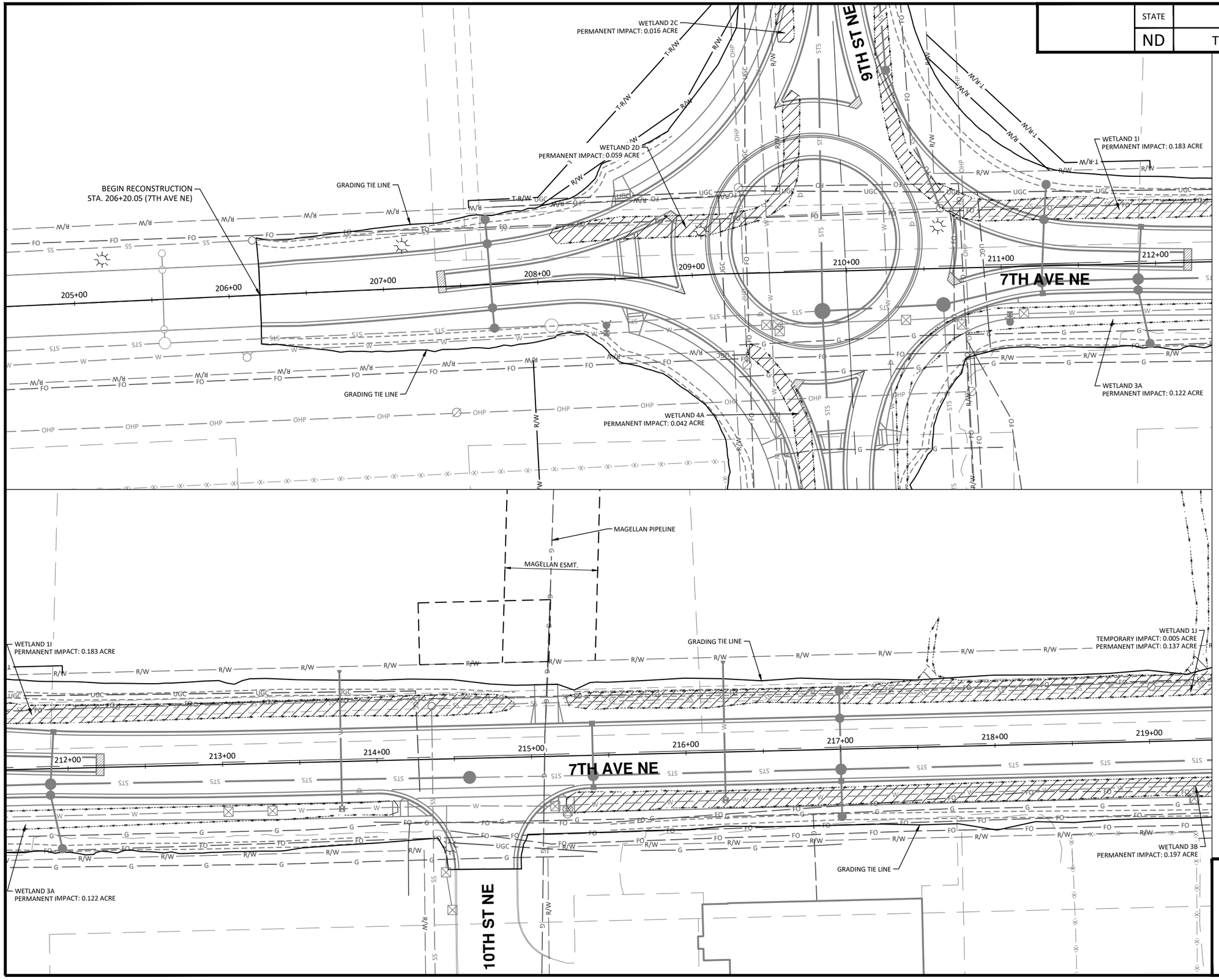
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Wetland Impacts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	7



N

30 0 30 60
Scale Feet

LEGEND

PERMANENT IMPACT

TEMPORARY IMPACT

EXISTING R/W — R/W

PROPOSED RIGHT OF WAY — R/W

TEMPORARY RIGHT OF WAY — T-R/W

WARNING
HIGH-PRESSURE PIPELINE(S)
Excavation and/or Construction Prohibited
Without compliance with **State One-Call**, AND
Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.
A MAGELLAN REPRESENTATIVE MUST BE PRESENT DURING WORK AROUND PIPELINE(S)

CITY OF WEST FARGO

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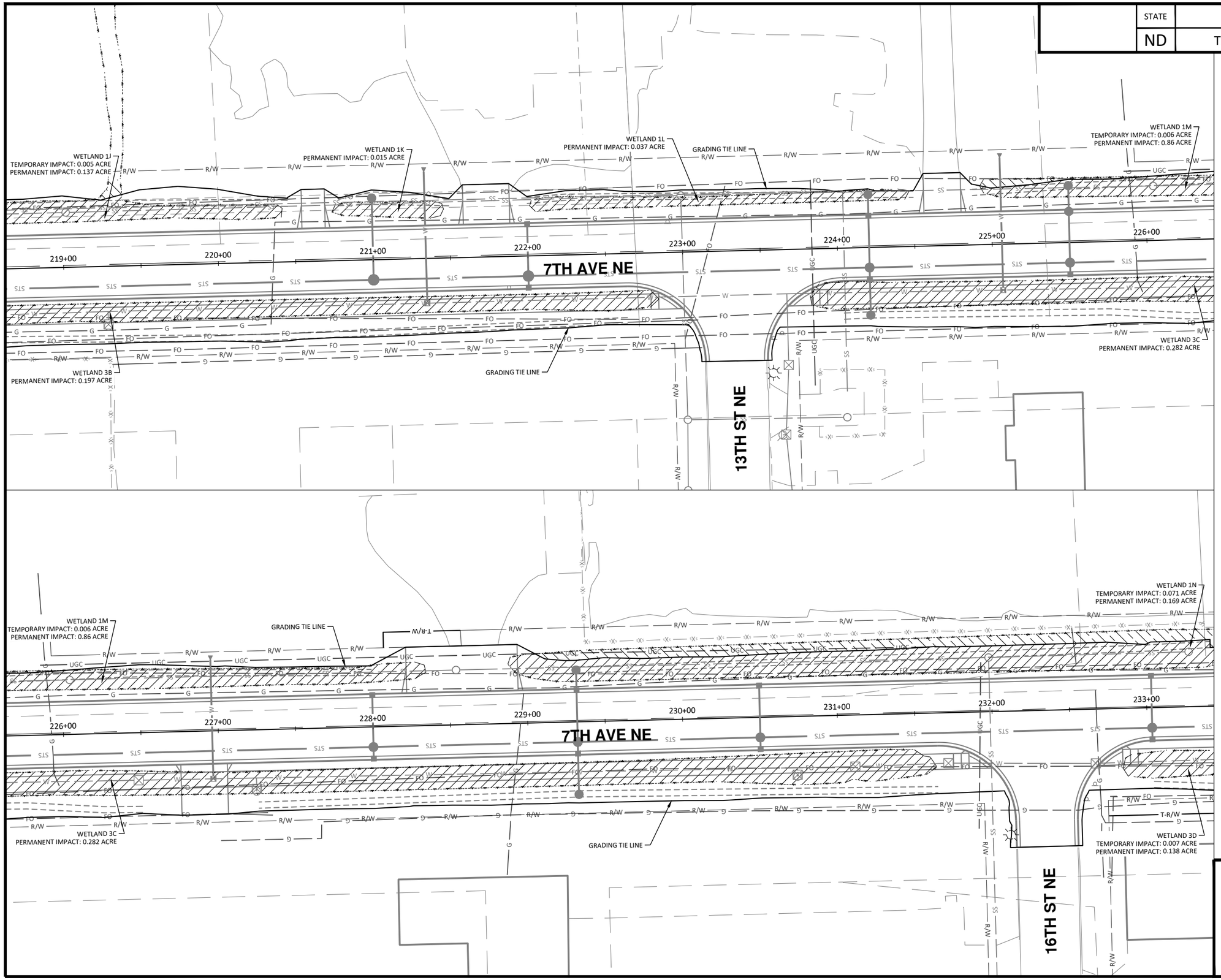
8/13/2025

Wetland Impacts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	8



N

30 0 30 60
Scale Feet

LEGEND

- PERMANENT IMPACT
- TEMPORARY IMPACT
- EXISTING R/W — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —

CITY OF WEST FARGO

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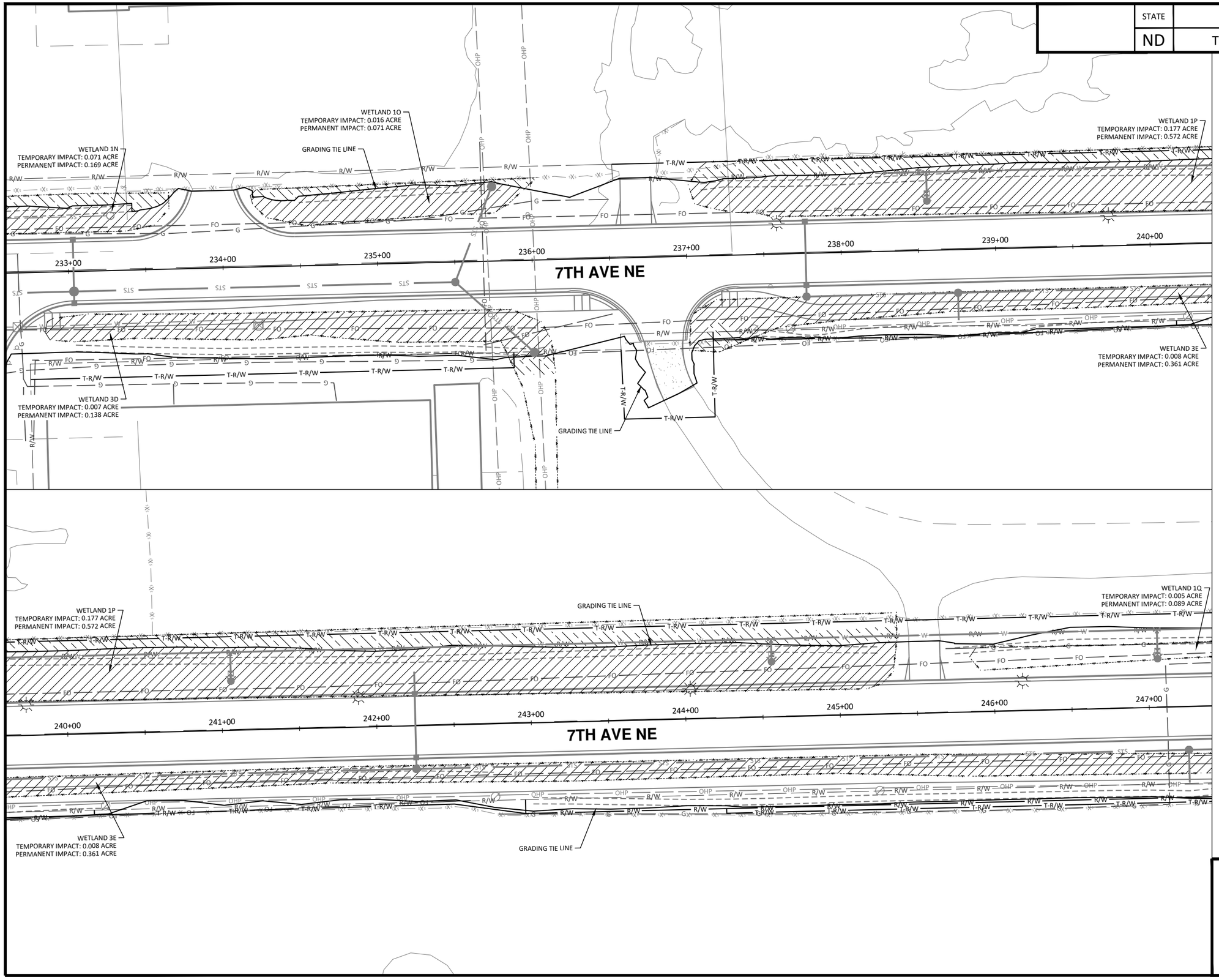
8/13/2025

Wetland Impacts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	9



N

30 0 30 60
Scale Feet

LEGEND

PERMANENT IMPACT

TEMPORARY IMPACT

EXISTING R/W — R/W — — —
PROPOSED RIGHT OF WAY — R/W —
TEMPORARY RIGHT OF WAY — T-R/W —

CITY OF WEST FARGO

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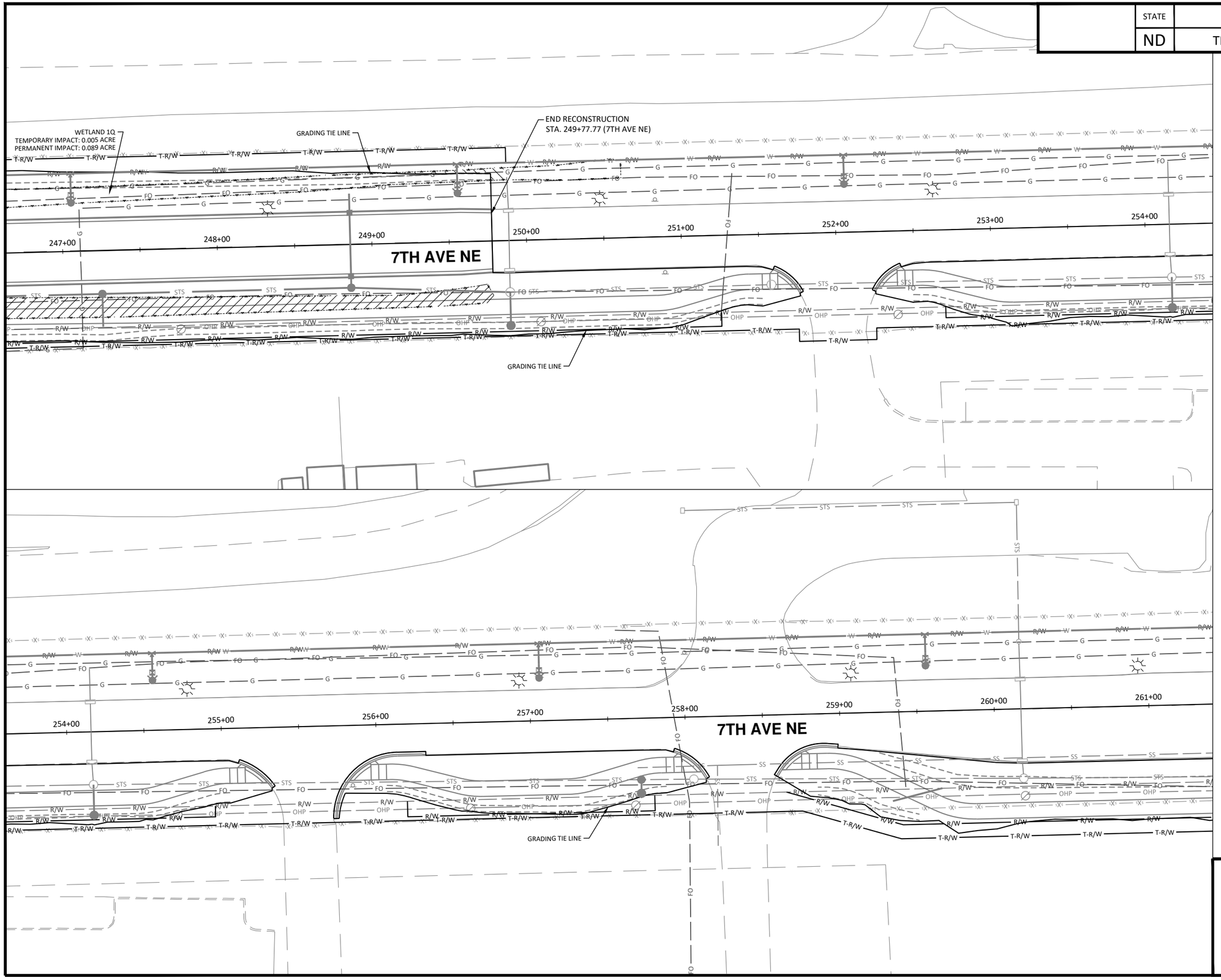
8/13/2025

Wetland Impacts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	75	10



N

30 0 30 60
Scale Feet

LEGEND

- PERMANENT IMPACT
- TEMPORARY IMPACT
- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W

CITY OF WEST FARGO

HOUSTON engineering, inc.

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PE-10407
DATE
NORTH DAKOTA

8/13/2025

Wetland Impacts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	76	1

SPEC	CODE	BID ITEM	QTY	UNIT
251	2000	TEMPORARY COVER CROP		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	0.85	ACRE
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	1.20	ACRE
253	201	HYDRAULIC MULCH		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	0.85	ACRE
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	1.20	ACRE
260	100	SILT FENCE UNSUPPORTED		
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	211	LF
260	101	REMOVE SILT FENCE UNSUPPORTED		
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	211	LF
261	112	FIBER ROLLS 12IN		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	144	LF
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	621	LF
261	113	REMOVE FIBER ROLLS 12IN		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	144	LF
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	621	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	6	EA
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	6	EA
708	1541	REMOVAL INLET PROTECTION-SPECIAL		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	6	EA
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	6	EA

LEGEND

- EXISTING R/W
- PROPOSED RIGHT OF WAY
- TEMPORARY RIGHT OF WAY
- SILT FENCE UNSUPPORTED
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

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PE-10407
DATE
NORTH DAKOTA

8/13/2025

Temporary Erosion Control - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

30 0 30 60
Scale Feet

MAIN AVE E
9th St NE
7th AVE NE
FRONTAGE RD

GRADING TIE LINE
BEGIN RECONSTRUCTION STA. 103+64.50 (9TH ST NE)
BEGIN EXCEPTION AREA STA. 109+00.00 (9TH ST NE)
END EXCEPTION AREA STA. 126+75.92 (9TH ST NE)
MATCHLINE STA 208+40 (7TH AVE NE)
MATCHLINE STA 211+25 (7TH AVE NE)

103+00 104+00 105+00 106+00 107+00 108+00 109+00
127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00
209+00 210+00 211+00

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	76	2

30 0 30 60
Scale Feet

9TH AVE NE

GRADING TIE LINE

9TH ST NE

134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00

FRONTAGE RD

GRADING TIE LINE

30 0 30 60
Scale Feet

11TH AVE NE

GRADING TIE LINE

141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00

9TH ST NE

FRONTAGE RD

GRADING TIE LINE

10TH AVE NE

SPEC CODE	BID ITEM	QTY	UNIT
251 2000	TEMPORARY COVER CROP		
	Sta 134+00 to Sta 141+00 (Pr_9thSt)	0.50	ACRE
	Sta 141+00 to Sta 148+00 (Pr_9thSt)	0.90	ACRE
253 201	HYDRAULIC MULCH		
	Sta 134+00 to Sta 141+00 (Pr_9thSt)	0.50	ACRE
	Sta 141+00 to Sta 148+00 (Pr_9thSt)	0.90	ACRE
261 112	FIBER ROLLS 12IN		
	Sta 134+00 to Sta 141+00 (Pr_9thSt)	472	LF
	Sta 141+00 to Sta 148+00 (Pr_9thSt)	157	LF
261 113	REMOVE FIBER ROLLS 12IN		
	Sta 134+00 to Sta 141+00 (Pr_9thSt)	472	LF
	Sta 141+00 to Sta 148+00 (Pr_9thSt)	157	LF
708 1540	INLET PROTECTION-SPECIAL		
	Sta 134+00 to Sta 141+00 (Pr_9thSt)	6	EA
	Sta 141+00 to Sta 148+00 (Pr_9thSt)	7	EA
708 1541	REMOVAL INLET PROTECTION-SPECIAL		
	Sta 134+00 to Sta 141+00 (Pr_9thSt)	6	EA
	Sta 141+00 to Sta 148+00 (Pr_9thSt)	7	EA

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Temporary Erosion Control - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	76	3

SPEC CODE	BID ITEM		QTY	UNIT
251	2000	TEMPORARY COVER CROP		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	0.88	ACRE
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	0.31	ACRE
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	0.17	ACRE
253	201	HYDRAULIC MULCH		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	0.88	ACRE
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	0.31	ACRE
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	0.17	ACRE
261	112	FIBER ROLLS 12IN		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	71	LF
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	387	LF
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	208	LF
261	113	REMOVE FIBER ROLLS 12IN		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	71	LF
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	387	LF
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	208	LF
708	1540	INLET PROTECTION-SPECIAL		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	3	EA
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	1	EA
708	1541	REMOVAL INLET PROTECTION-SPECIAL		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	3	EA
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	1	EA

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX — XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

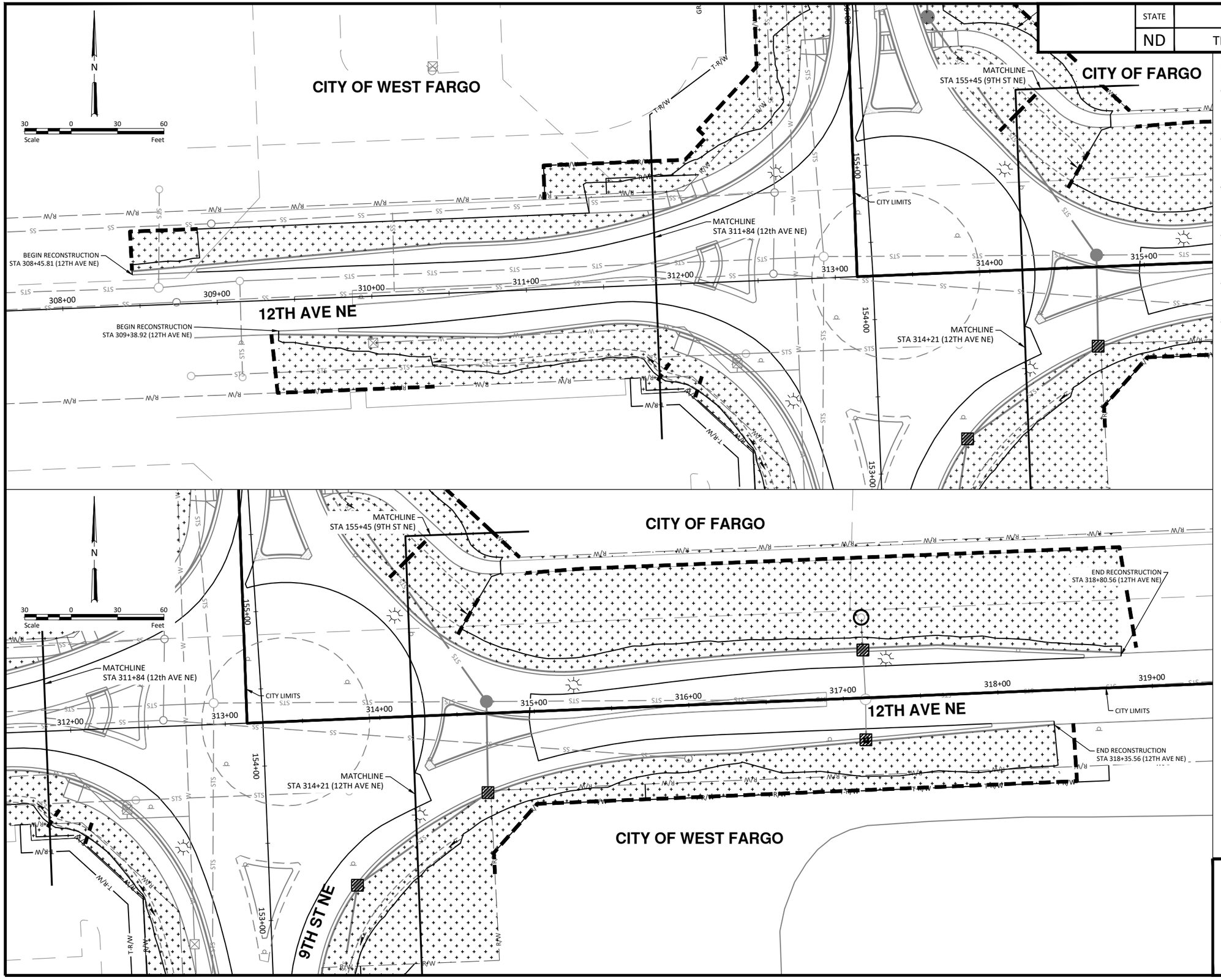
8/13/2025

Temporary Erosion Control - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	76	4



SPEC CODE	BID ITEM	QTY	UNIT
251 2000	TEMPORARY COVER CROP		
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)	0.36	ACRE
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	0.36	ACRE
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	0.66	ACRE
253 201	HYDRAULIC MULCH		
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)	0.36	ACRE
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	0.36	ACRE
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	0.66	ACRE
261 112	FIBER ROLLS 12IN		
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)	301	LF
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	443	LF
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	533	LF
261 113	REMOVE FIBER ROLLS 12IN		
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)	301	LF
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	443	LF
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	533	LF
708 1540	INLET PROTECTION-SPECIAL		
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	2	EA
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	1	EA
708 1541	REMOVAL INLET PROTECTION-SPECIAL		
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	2	EA
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)	1	EA

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

HOUSTON engineering, inc.

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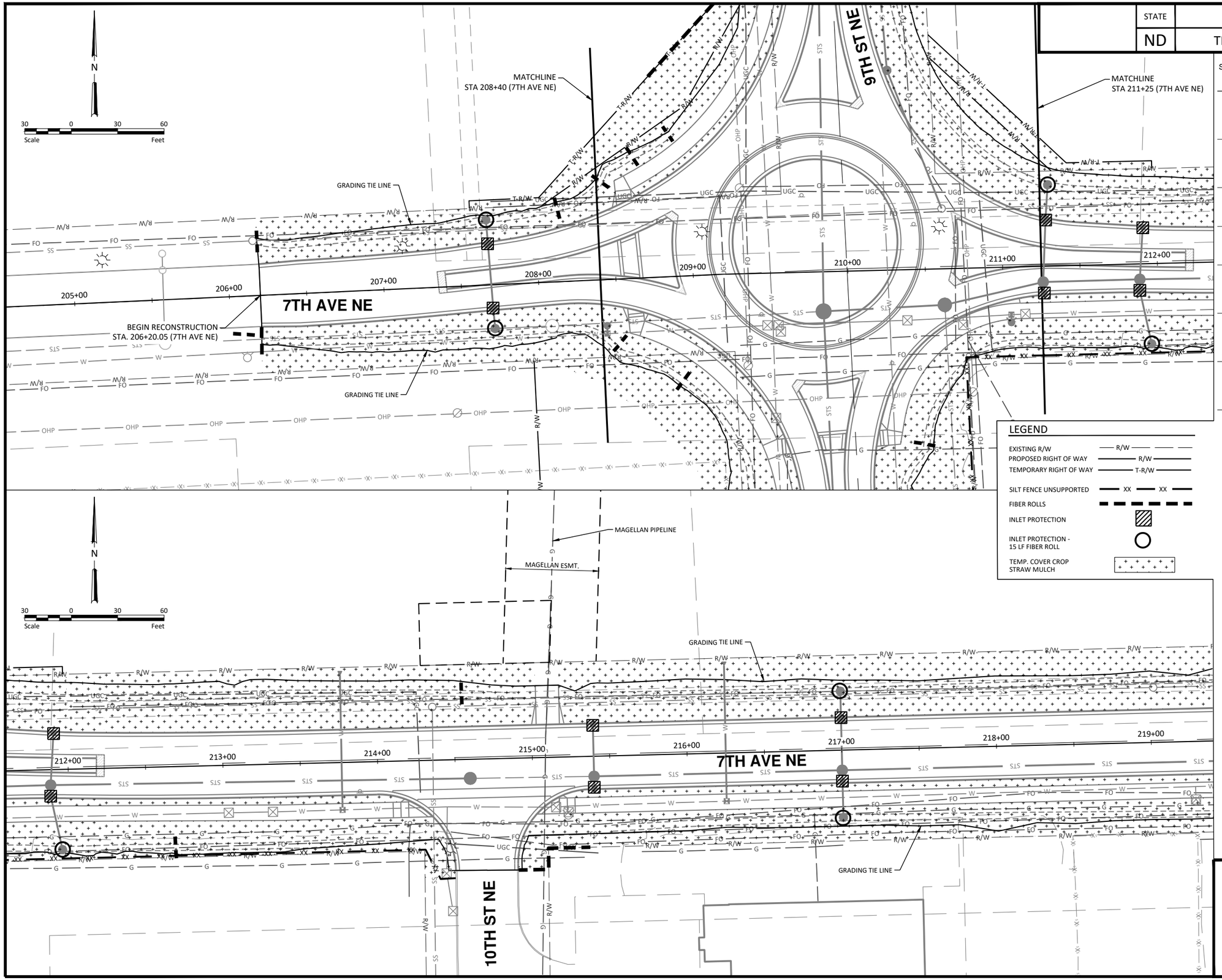
8/13/2025

Temporary Erosion Control - 12th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	76	5



SPEC	CODE	BID ITEM	QTY	UNIT
251	2000	TEMPORARY COVER CROP		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	0.31	ACRE
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	0.12	ACRE
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	1.03	ACRE
253	201	HYDRAULIC MULCH		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	0.31	ACRE
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	0.12	ACRE
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	1.03	ACRE
260	100	SILT FENCE UNSUPPORTED		
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	75	LF
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	261	LF
260	101	REMOVE SILT FENCE UNSUPPORTED		
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	75	LF
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	261	LF
261	112	FIBER ROLLS 12IN		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	90	LF
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	30	LF
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	118	LF
261	113	REMOVE FIBER ROLLS 12IN		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	90	LF
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	30	LF
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	118	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	2	EA
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	4	EA
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	4	EA
708	1541	REMOVAL INLET PROTECTION-SPECIAL		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	2	EA
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	4	EA
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	4	EA

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX — XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

WARNING
HIGH-PRESSURE PIPELINE(S)
Excavation and/or Construction Prohibited
Without compliance with **State One-Call**, AND
Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.
A MAGELLAN REPRESENTATIVE MUST BE PRESENT DURING WORK AROUND PIPELINE(S)

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

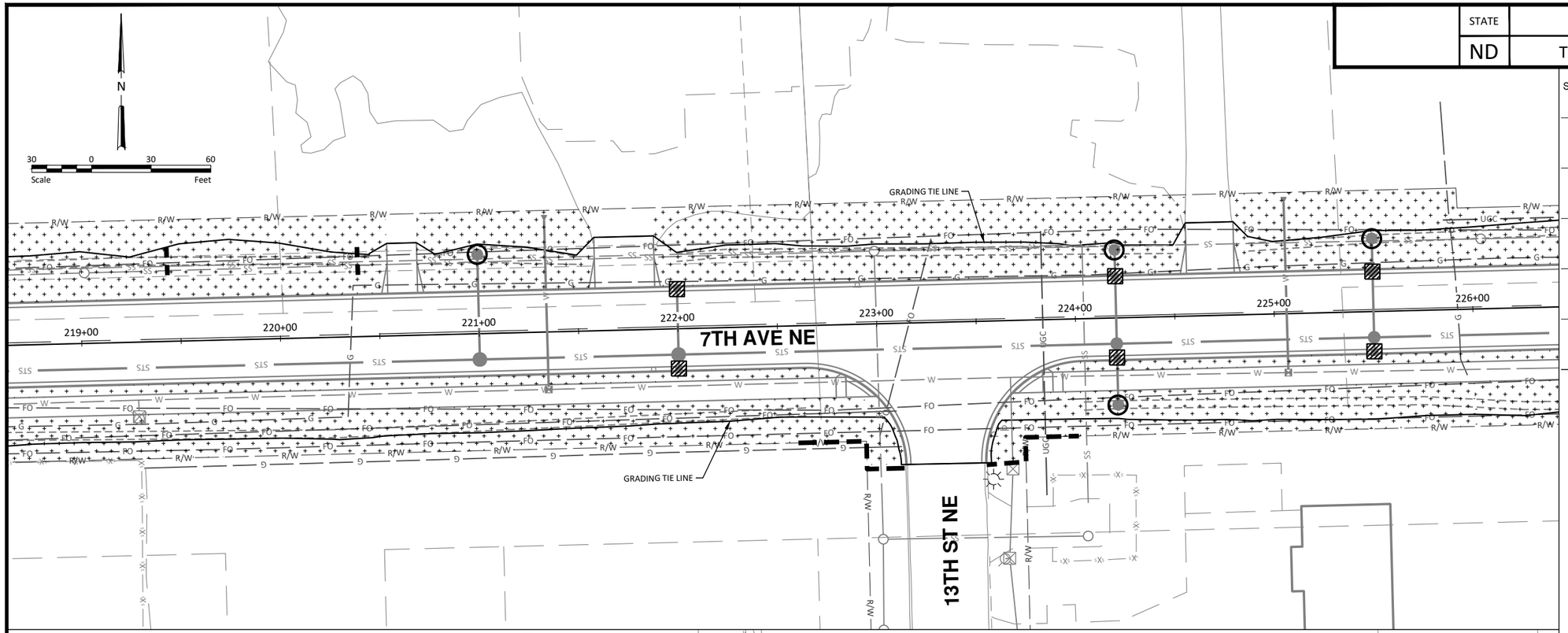
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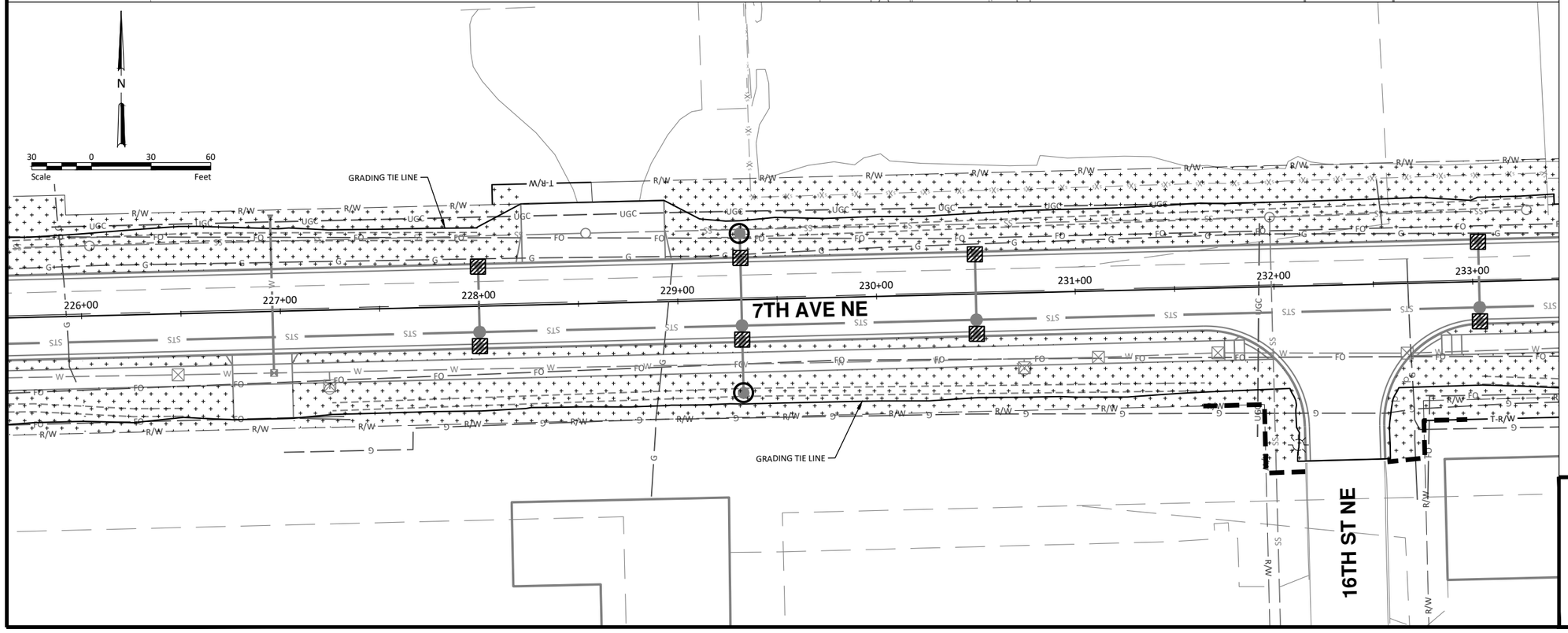
Temporary Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	76	6





SPEC	CODE	BID ITEM	QTY	UNIT
251	2000	TEMPORARY COVER CROP		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	0.98	ACRE
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	0.93	ACRE
253	201	HYDRAULIC MULCH		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	0.98	ACRE
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	0.93	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	214	LF
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	174	LF
261	113	REMOVE FIBER ROLLS 12IN		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	214	LF
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	174	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	6	EA
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	6	EA
708	1541	REMOVAL INLET PROTECTION-SPECIAL		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	6	EA
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	6	EA

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

HOUSTON engineering, inc.

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NORTH DAKOTA

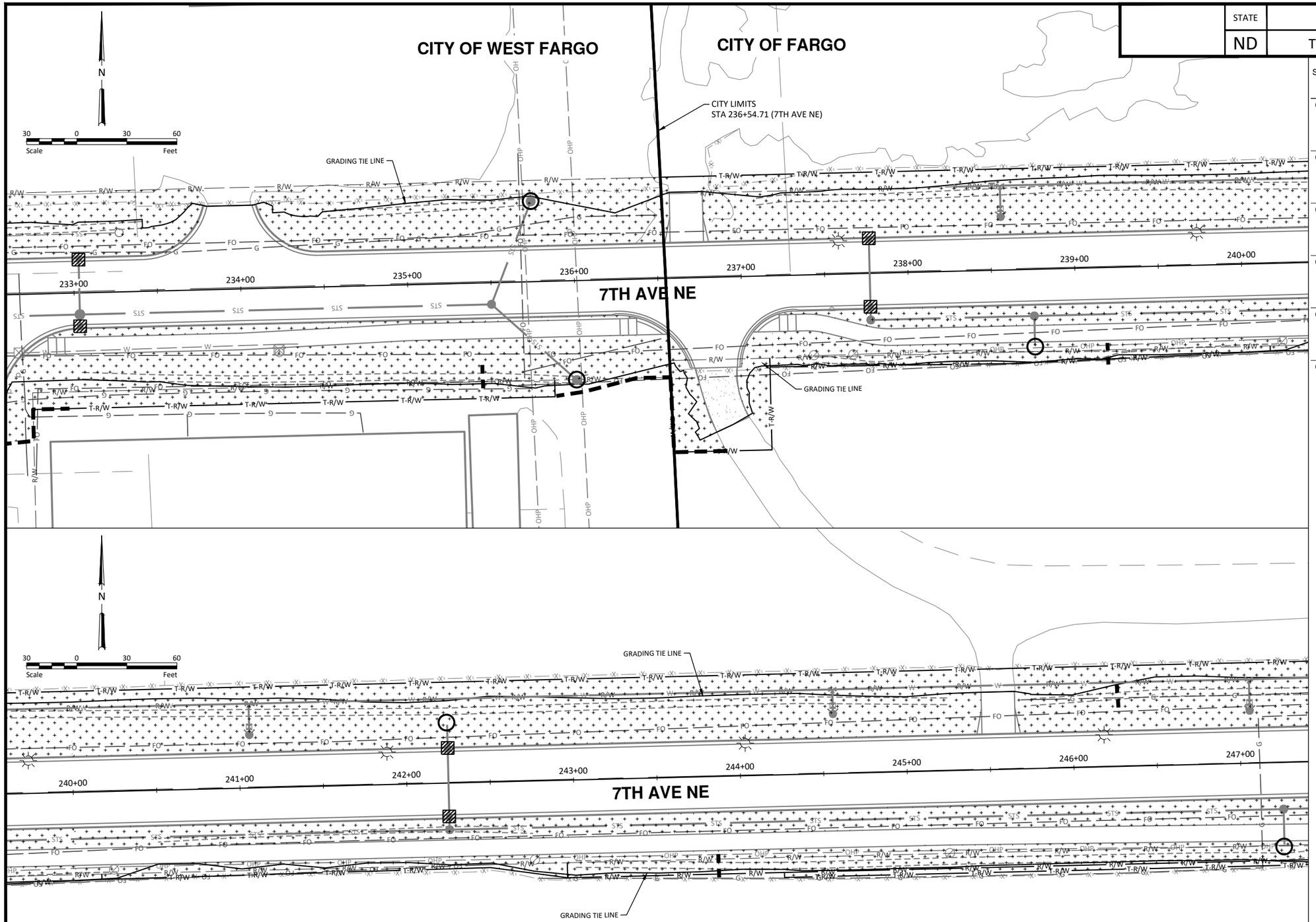
8/13/2025

Temporary Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	76	7



SPEC CODE	BID ITEM	QTY	UNIT
251 2000	TEMPORARY COVER CROP		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	0.57	ACRE
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	0.49	ACRE
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	1.02	ACRE
253 201	HYDRAULIC MULCH		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	0.57	ACRE
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	0.49	ACRE
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	1.02	ACRE
261 112	FIBER ROLLS 12IN		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	114	LF
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	105	LF
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	43	LF
261 113	REMOVE FIBER ROLLS 12IN		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	114	LF
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	105	LF
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	43	LF
708 1540	INLET PROTECTION-SPECIAL		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	2	EA
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	2	EA
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	2	EA
708 1541	REMOVAL INLET PROTECTION-SPECIAL		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	2	EA
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	2	EA
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	2	EA

LEGEND

EXISTING R/W — R/W —

PROPOSED RIGHT OF WAY — R/W —

TEMPORARY RIGHT OF WAY — T-R/W —

SILT FENCE UNSUPPORTED — XX — XX —

FIBER ROLLS

INLET PROTECTION

INLET PROTECTION - 15 LF FIBER ROLL

TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

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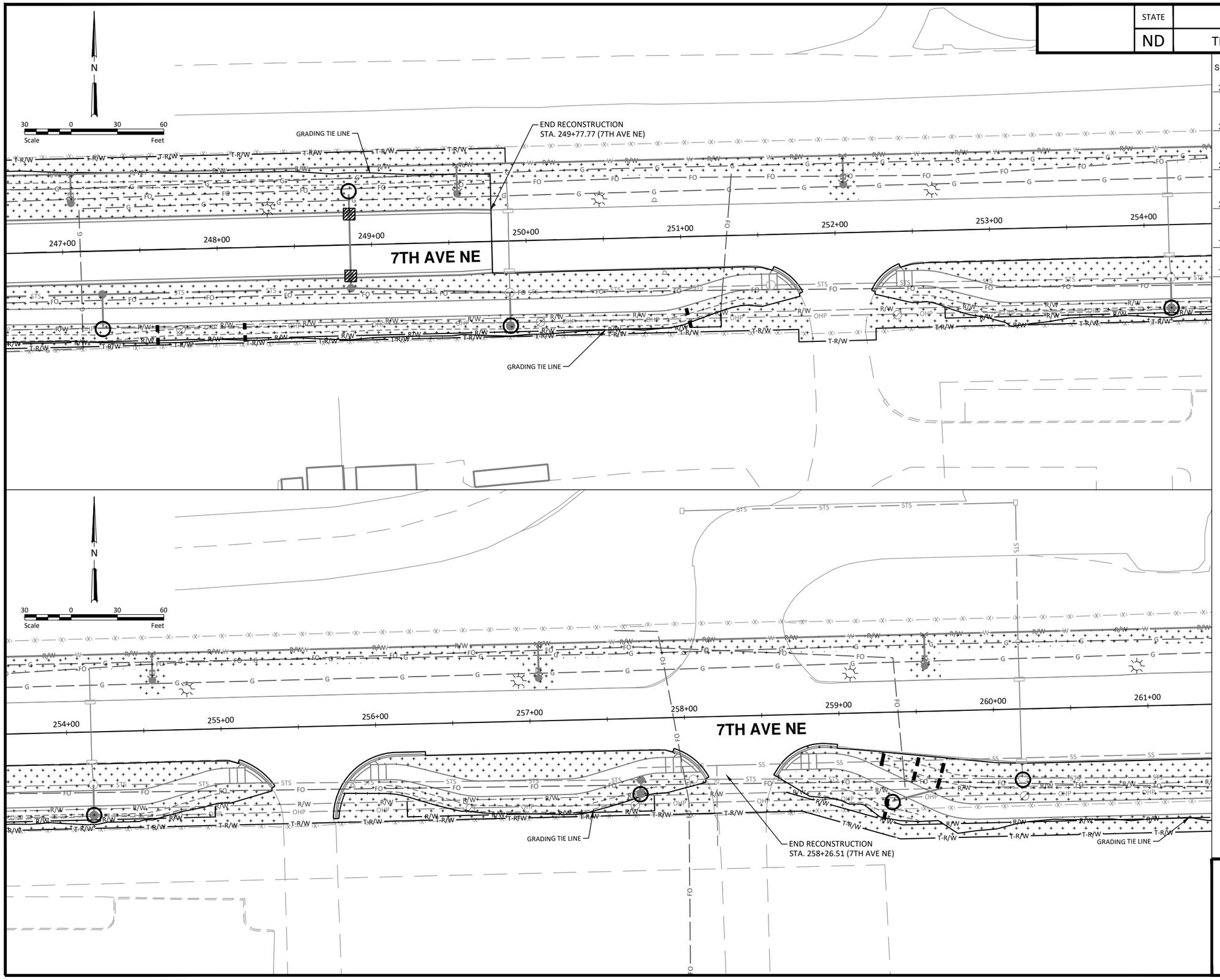
8/13/2025

Temporary Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	76	8



SPEC	CODE	BID ITEM	QTY	UNIT
251	2000	TEMPORARY COVER CROP		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	0.83	ACRE
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	0.67	ACRE
253	201	HYDRAULIC MULCH		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	0.83	ACRE
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	0.67	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	83	LF
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	114	LF
261	113	REMOVE FIBER ROLLS 12IN		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	83	LF
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	114	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	2	EA
708	1541	REMOVAL INLET PROTECTION-SPECIAL		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	2	EA

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

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8/13/2025

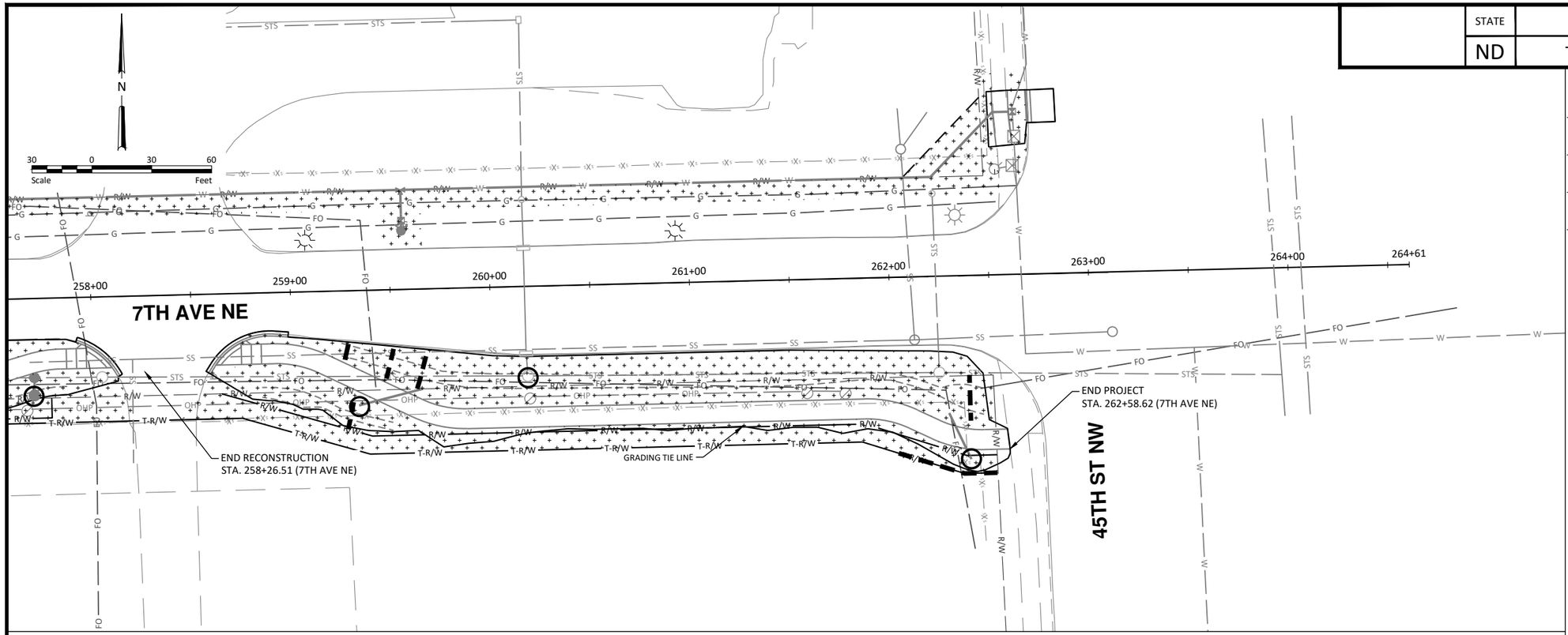
Temporary Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	76	9

SPEC	CODE	BID ITEM	QTY	UNIT
251	2000	TEMPORARY COVER CROP		
		Sta 261+00 to Sta 262+53.61 (Pr_7thAve)	0.21	ACRE
253	201	HYDRAULIC MULCH		
		Sta 261+00 to Sta 262+53.61 (Pr_7thAve)	0.21	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 261+00 to Sta 262+53.61 (Pr_7thAve)	89	LF
261	113	REMOVE FIBER ROLLS 12IN		
		Sta 261+00 to Sta 262+53.61 (Pr_7thAve)	89	LF



LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

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ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Temporary Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	77	1

SPEC	CODE	BID ITEM	QTY	UNIT
251	300	SEEDING CLASS III		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	0.85	ACRE
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	1.20	ACRE
253	301	BONDED FIBER MATRIX		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	0.85	ACRE
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	1.20	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	144	LF
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	832	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 103+64.50 to Sta 109+00 (Pr_9thSt)	6	EA
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	6	EA

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Permanent Erosion Control - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	77	2

SPEC	CODE	BID ITEM	QTY	UNIT
251	300	SEEDING CLASS III		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	0.50	ACRE
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	0.90	ACRE
253	301	BONDED FIBER MATRIX		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	0.50	ACRE
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	0.90	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	472	LF
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	157	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	6	EA
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	7	EA

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING R/W — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- SILT FENCE UNSUPPORTED — XX — XX —
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Permanent Erosion Control - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	77	3

SPEC CODE	BID ITEM	QTY	UNIT
251 300	SEEDING CLASS III		
(West Fargo)	Sta 148+00 to Sta 155+00 (Pr_9thSt)	0.88	ACRE
(West Fargo)	Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	0.31	ACRE
(Fargo)	Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	0.17	ACRE
253 301	BONDED FIBER MATRIX		
(West Fargo)	Sta 148+00 to Sta 155+00 (Pr_9thSt)	0.88	ACRE
(West Fargo)	Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	0.31	ACRE
(Fargo)	Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	0.17	ACRE
261 112	FIBER ROLLS 12IN		
(West Fargo)	Sta 148+00 to Sta 155+00 (Pr_9thSt)	71	LF
(West Fargo)	Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	387	LF
(Fargo)	Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	208	LF
708 1540	INLET PROTECTION-SPECIAL		
(West Fargo)	Sta 148+00 to Sta 155+00 (Pr_9thSt)	3	EA
(West Fargo)	Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	1	EA

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING R/W — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- SILT FENCE UNSUPPORTED — XX — XX —
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

HOUSTON engineering, inc.

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ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Permanent Erosion Control - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	77	4

SPEC	CODE	BID ITEM		QTY	UNIT
251	300	SEEDING CLASS III			
(West Fargo)		Sta 308+45.81 to Sta 311+84 (Pr_12thAve)		0.36	ACRE
(West Fargo)		Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		0.36	ACRE
(Fargo)		Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		0.66	ACRE
253	301	BONDED FIBER MATRIX			
(West Fargo)		Sta 308+45.81 to Sta 311+84 (Pr_12thAve)		0.36	ACRE
(West Fargo)		Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		0.36	ACRE
(Fargo)		Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		0.66	ACRE
261	112	FIBER ROLLS 12IN			
(West Fargo)		Sta 308+45.81 to Sta 311+84 (Pr_12thAve)		301	LF
(West Fargo)		Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		443	LF
(Fargo)		Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		533	LF
708	1540	INLET PROTECTION-SPECIAL			
(West Fargo)		Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		2	EA
(Fargo)		Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		1	EA

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

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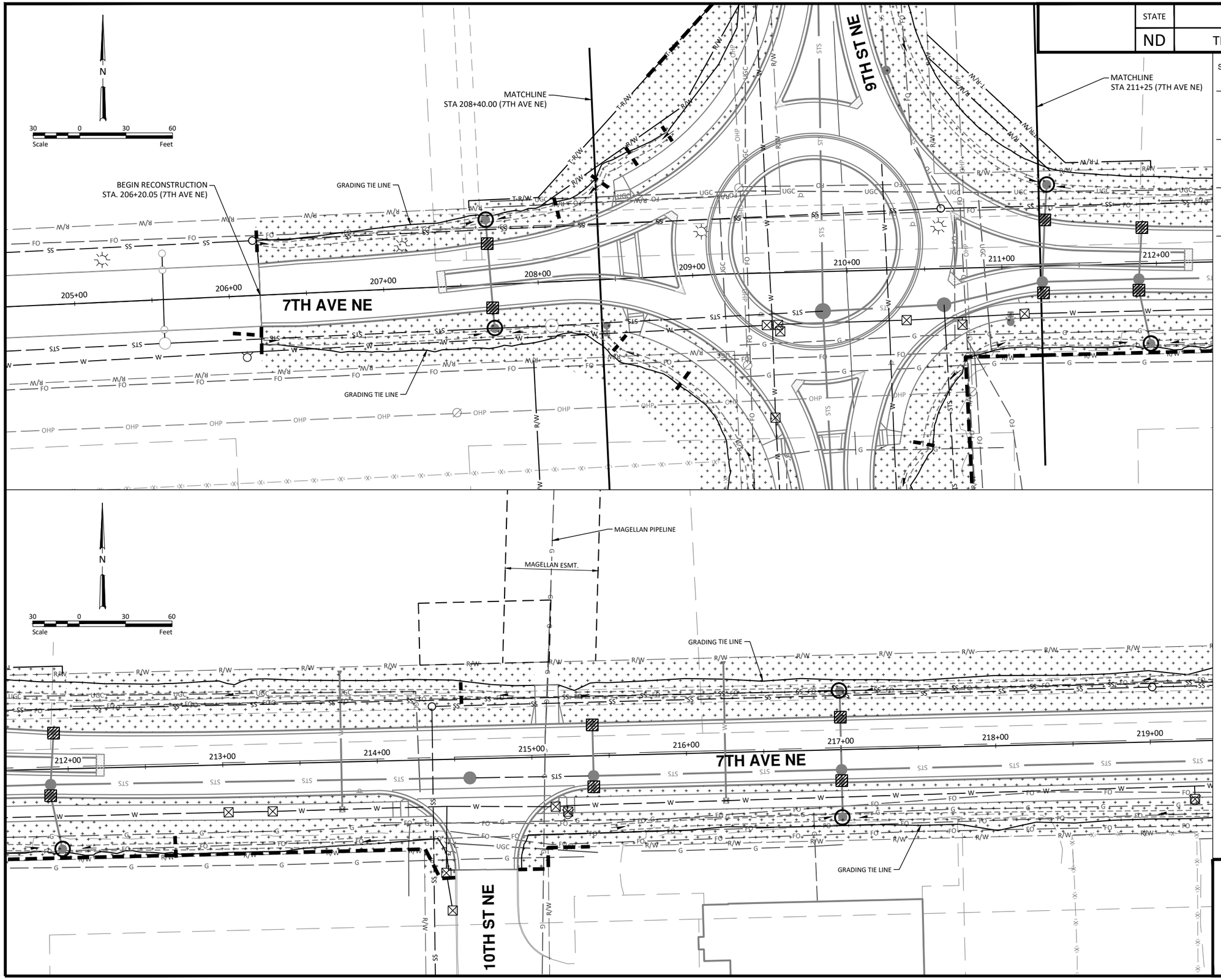
8/13/2025

Permanent Erosion Control - 12th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	77	5



SPEC	CODE	BID ITEM	QTY	UNIT
251	300	SEEDING CLASS III		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	0.31	ACRE
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	0.12	ACRE
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	1.03	ACRE
253	301	BONDED FIBER MATRIX		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	0.31	ACRE
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	0.12	ACRE
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	1.03	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	90	LF
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	105	LF
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	379	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	2	EA
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	4	EA
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	4	EA

LEGEND

EXISTING R/W — R/W —
PROPOSED RIGHT OF WAY — R/W —
TEMPORARY RIGHT OF WAY — T-R/W —
SILT FENCE UNSUPPORTED — XX — XX —
FIBER ROLLS
INLET PROTECTION
INLET PROTECTION - 15 LF FIBER ROLL
TEMP. COVER CROP STRAW MULCH

WARNING
HIGH-PRESSURE PIPELINE(S)
Excavation and/or Construction Prohibited
Without compliance with **State One-Call**, AND
Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.
A MAGELLAN REPRESENTATIVE MUST BE PRESENT DURING WORK AROUND PIPELINE(S)

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

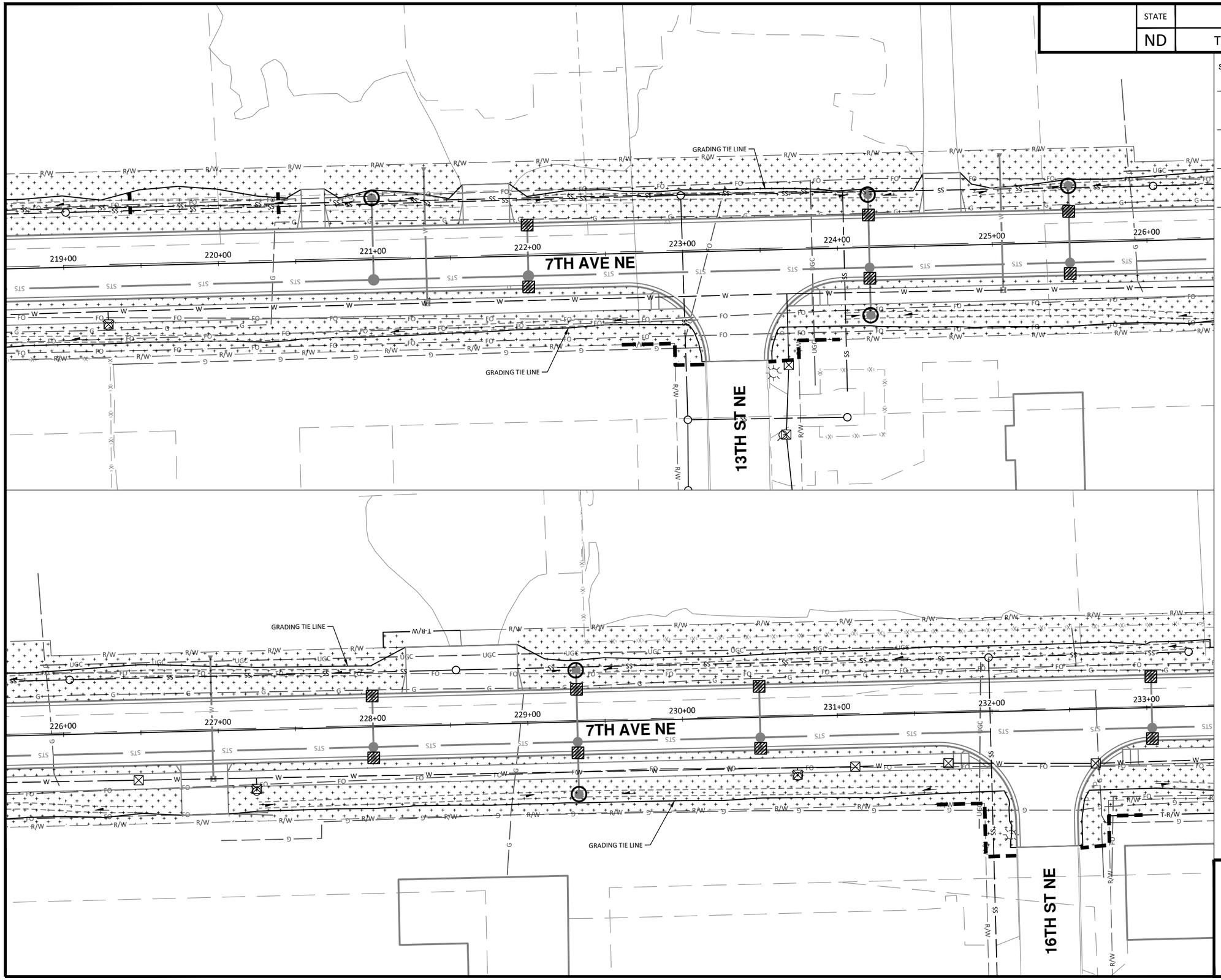
Permanent Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	77	6

SPEC	CODE	BID ITEM	QTY	UNIT
251	300	SEEDING CLASS III		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	0.98	ACRE
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	0.93	ACRE
253	301	BONDED FIBER MATRIX		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	0.98	ACRE
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	0.93	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	214	LF
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	174	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	6	EA
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	6	EA



N

30 0 30 60

Scale Feet

LEGEND

- EXISTING R/W — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- SILT FENCE UNSUPPORTED — XX XX
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

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ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Permanent Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	77	7

CITY OF WEST FARGO

CITY OF FARGO

CITY LIMITS
STA 236+54.71 (7th AVE NE)

7TH AVE NE

GRADING TIE LINE

GRADING TIE LINE

GRADING TIE LINE

GRADING TIE LINE

N

30 0 30 60
Scale Feet

SPEC CODE	BID ITEM	QTY	UNIT
251 300	SEEDING CLASS III		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	0.57	ACRE
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	0.49	ACRE
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	1.02	ACRE
253 301	BONDED FIBER MATRIX		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	0.57	ACRE
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	0.49	ACRE
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	1.02	ACRE
261 112	FIBER ROLLS 12IN		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	114	LF
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	105	LF
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	43	LF
708 1540	INLET PROTECTION-SPECIAL		
(West Fargo)	Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	2	EA
(Fargo)	Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	2	EA
(Fargo)	Sta 240+00 to Sta 247+00 (Pr_7thAve)	2	EA

LEGEND

EXISTING R/W — R/W —
PROPOSED RIGHT OF WAY — R/W —
TEMPORARY RIGHT OF WAY — T-R/W —
SILT FENCE UNSUPPORTED — XX — XX —
FIBER ROLLS
INLET PROTECTION
INLET PROTECTION - 15 LF FIBER ROLL
TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

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NORTH DAKOTA

8/13/2025

Permanent Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	77	8

END RECONSTRUCTION
STA. 249+77.77 (7TH AVE NE)

GRADING TIE LINE

7TH AVE NE

247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00

GRADING TIE LINE

254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00

7TH AVE NE

GRADING TIE LINE

SPEC	CODE	BID ITEM	QTY	UNIT
251	300	SEEDING CLASS III		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	0.83	ACRE
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	0.67	ACRE
253	301	BONDED FIBER MATRIX		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	0.83	ACRE
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	0.67	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	83	LF
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	114	LF
708	1540	INLET PROTECTION-SPECIAL		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	2	EA

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING R/W — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- SILT FENCE UNSUPPORTED — XX — XX —
- FIBER ROLLS
- INLET PROTECTION
- INLET PROTECTION - 15 LF FIBER ROLL
- TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

HOUSTON engineering, inc.

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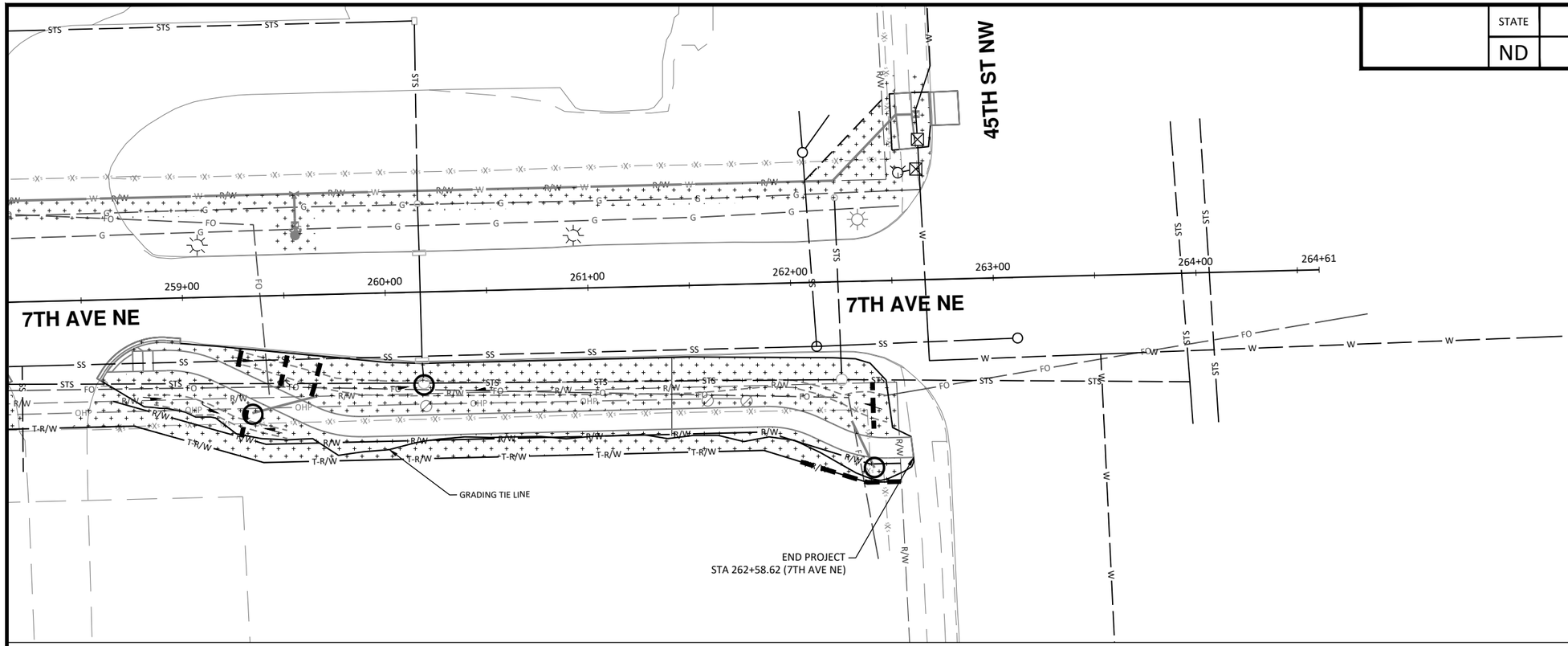
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Permanent Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	77	9

SPEC	CODE	BID ITEM	QTY	UNIT
251	300	SEEDING CLASS III		
		Sta 261+00 to Sta 262+53.61 (Pr_7thAve)	0.21	ACRE
253	301	BONDED FIBER MATRIX		
		Sta 261+00 to Sta 262+53.61 (Pr_7thAve)	0.21	ACRE
261	112	FIBER ROLLS 12IN		
		Sta 261+00 to Sta 262+53.61 (Pr_7thAve)	89	LF

N

30 0 30 60

Scale Feet

LEGEND

EXISTING R/W — R/W — — —

PROPOSED RIGHT OF WAY — R/W —

TEMPORARY RIGHT OF WAY — T-R/W —

SILT FENCE UNSUPPORTED — XX — XX —

FIBER ROLLS

INLET PROTECTION

INLET PROTECTION - 15 LF FIBER ROLL

TEMP. COVER CROP STRAW MULCH

CITY OF WEST FARGO

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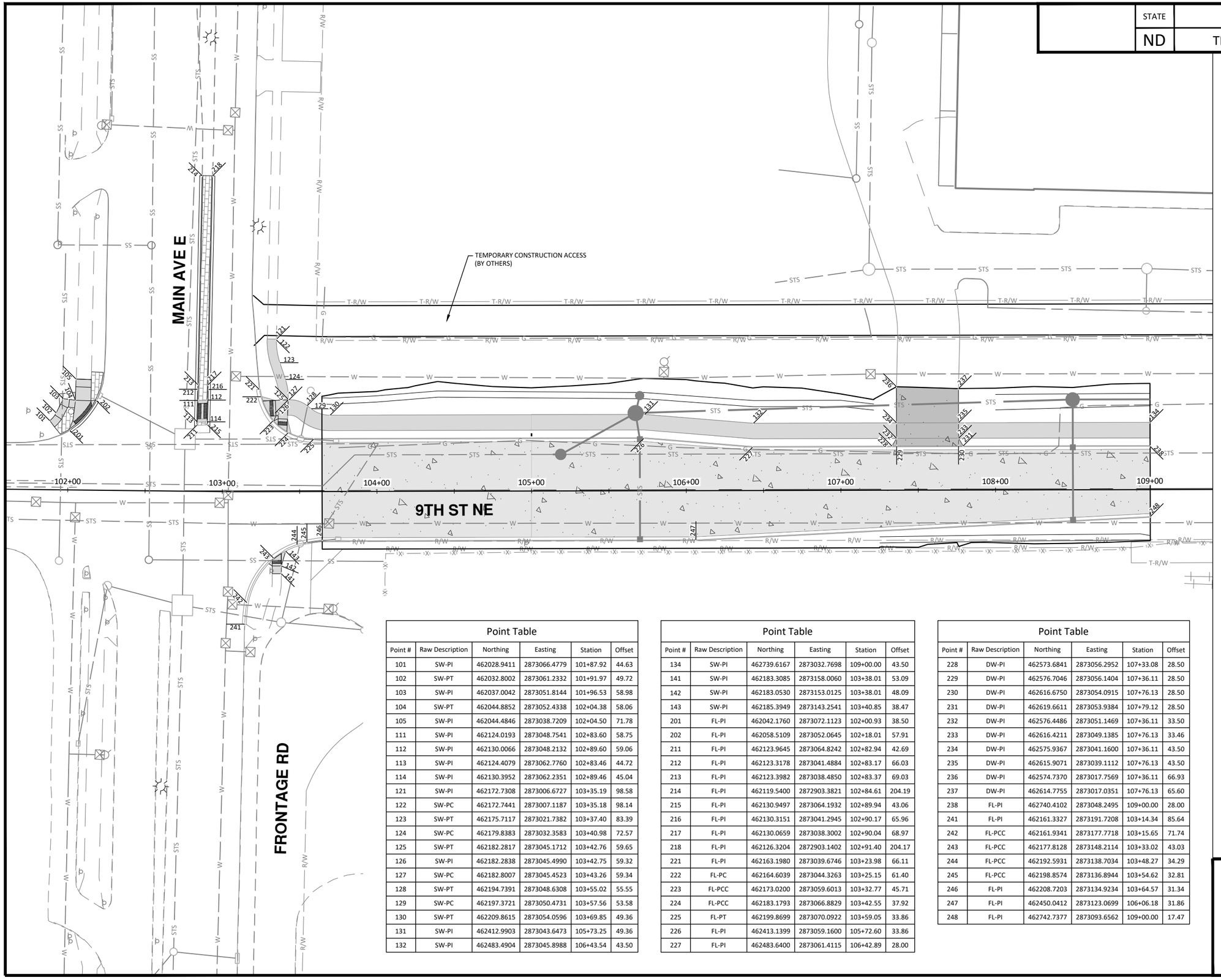
8/13/2025

Permanent Erosion Control - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	1



N

30 0 30 60
Scale Feet

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
101	SW-PI	462028.9411	2873066.4779	101+87.92	44.63
102	SW-PT	462032.8002	2873061.2332	101+91.97	49.72
103	SW-PI	462037.0042	2873051.8144	101+96.53	58.98
104	SW-PT	462044.8852	2873052.4338	102+04.38	58.06
105	SW-PI	462044.4846	2873038.7209	102+04.50	71.78
111	SW-PI	462124.0193	2873048.7541	102+83.60	58.75
112	SW-PI	462130.0066	2873048.2132	102+89.60	59.06
113	SW-PI	462124.4079	2873062.7760	102+83.46	44.72
114	SW-PI	462130.3952	2873062.2351	102+89.46	45.04
121	SW-PI	462172.7308	2873006.6727	103+35.19	98.58
122	SW-PC	462172.7441	2873007.1187	103+35.18	98.14
123	SW-PT	462175.7117	2873021.7382	103+37.40	83.39
124	SW-PC	462179.8383	2873032.3583	103+40.98	72.57
125	SW-PT	462182.2817	2873045.1712	103+42.76	59.65
126	SW-PI	462182.2838	2873045.4990	103+42.75	59.32
127	SW-PC	462182.8007	2873045.4523	103+43.26	59.34
128	SW-PT	462194.7391	2873048.6308	103+55.02	55.55
129	SW-PC	462197.3721	2873050.4731	103+57.56	53.58
130	SW-PT	462209.8615	2873054.0596	103+69.85	49.36
131	SW-PI	462412.9903	2873043.6473	105+73.25	49.36
132	SW-PI	462483.4904	2873045.8988	106+43.54	43.50

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
134	SW-PI	462739.6167	2873032.7698	109+00.00	43.50
141	SW-PI	462183.3085	2873158.0060	103+38.01	53.09
142	SW-PI	462183.0530	2873153.0125	103+38.01	48.09
143	SW-PI	462185.3949	2873143.2541	103+40.85	38.47
201	FL-PI	462042.1760	2873072.1123	102+00.93	38.50
202	FL-PI	462058.5109	2873052.0645	102+18.01	57.91
211	FL-PI	462123.9645	2873064.8242	102+82.94	42.69
212	FL-PI	462123.3178	2873041.4884	102+83.17	66.03
213	FL-PI	462123.3982	2873038.4850	102+83.37	69.03
214	FL-PI	462119.5400	2872903.3821	102+84.61	204.19
215	FL-PI	462130.9497	2873064.1932	102+89.94	43.06
216	FL-PI	462130.3151	2873041.2945	102+90.17	65.96
217	FL-PI	462130.0659	2873038.3002	102+90.04	68.97
218	FL-PI	462126.3204	2872903.1402	102+91.40	204.17
221	FL-PI	462163.1980	2873039.6746	103+23.98	66.11
222	FL-PC	462164.6039	2873044.3263	103+25.15	61.40
223	FL-PCC	462173.0200	2873059.6013	103+32.77	45.71
224	FL-PCC	462183.1793	2873066.8829	103+42.55	37.92
225	FL-PT	462199.8699	2873070.0922	103+59.05	33.86
226	FL-PI	462413.1399	2873059.1600	105+72.60	33.86
227	FL-PI	462483.6400	2873061.4115	106+42.89	28.00

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
228	DW-PI	462573.6841	2873056.2952	107+33.08	28.50
229	DW-PI	462576.7046	2873056.1404	107+36.11	28.50
230	DW-PI	462616.6750	2873054.0915	107+76.13	28.50
231	DW-PI	462619.6611	2873053.9384	107+79.12	28.50
232	DW-PI	462576.4486	2873051.1469	107+36.11	33.50
233	DW-PI	462616.4211	2873049.1385	107+76.13	33.46
234	DW-PI	462575.9367	2873041.1600	107+36.11	43.50
235	DW-PI	462615.9071	2873039.1112	107+76.13	43.50
236	DW-PI	462574.7370	2873017.7569	107+36.11	66.93
237	DW-PI	462614.7755	2873017.0351	107+76.13	65.60
238	FL-PI	462740.4102	2873048.2495	109+00.00	28.00
241	FL-PI	462161.3327	2873191.7208	103+14.34	85.64
242	FL-PCC	462161.9341	2873177.7718	103+15.65	71.74
243	FL-PCC	462177.8128	2873148.2114	103+33.02	43.03
244	FL-PCC	462192.5931	2873138.7034	103+48.27	34.29
245	FL-PCC	462198.8574	2873136.8944	103+54.62	32.81
246	FL-PI	462208.7203	2873134.9234	103+64.57	31.34
247	FL-PI	462450.0412	2873123.0699	106+06.18	31.86
248	FL-PI	462742.7377	2873093.6562	109+00.00	17.47

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

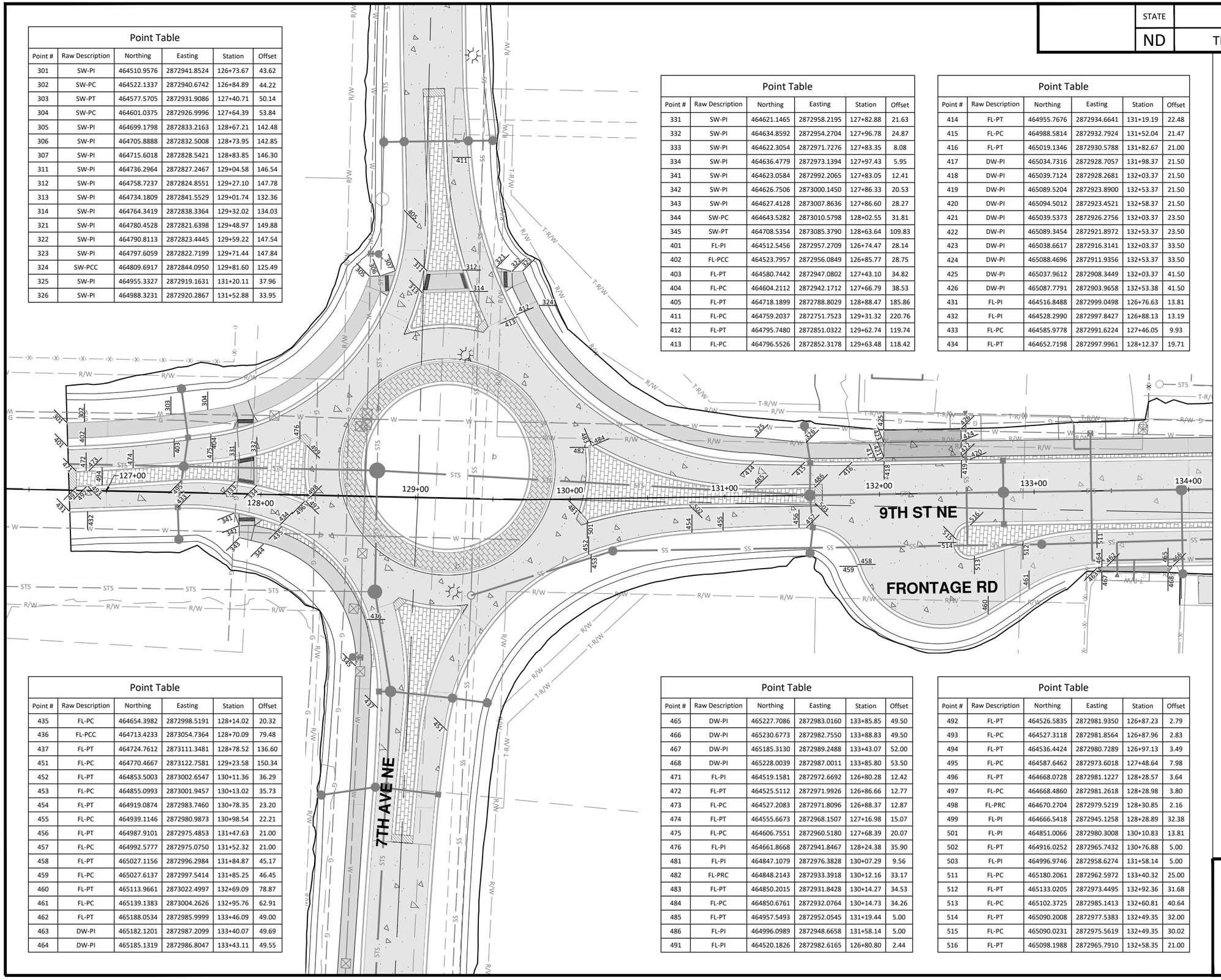
8/13/2025

General Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	2



Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
301	SW-PI	464510.9576	2872941.8524	126+73.67	43.62
302	SW-PC	464522.1337	2872940.6742	126+84.89	44.22
303	SW-PT	464577.5705	2872931.9086	127+40.71	50.14
304	SW-PC	464601.0375	2872926.9996	127+64.39	53.84
305	SW-PI	464699.1798	2872833.2163	128+67.21	142.48
306	SW-PI	464705.8888	2872832.5008	128+73.95	142.85
307	SW-PI	464715.6018	2872828.5421	128+83.85	146.30
311	SW-PI	464736.2964	2872827.2467	129+04.58	146.54
312	SW-PI	464758.7237	2872824.8551	129+27.10	147.78
313	SW-PI	464734.1809	2872841.5529	129+01.74	132.36
314	SW-PI	464764.3419	2872838.3364	129+32.02	134.03
321	SW-PI	464780.4528	2872821.6398	129+48.97	149.88
322	SW-PI	464790.8113	2872823.4445	129+59.22	147.54
323	SW-PI	464797.6059	2872822.7199	129+71.44	147.84
324	SW-PCC	464809.6917	2872844.0950	129+81.60	125.49
325	SW-PI	464955.3327	2872919.1631	131+20.11	37.96
326	SW-PI	464988.3231	2872920.2867	131+52.88	33.95

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
331	SW-PI	464621.1465	2872958.2195	127+82.88	21.63
332	SW-PI	464634.8592	2872954.2704	127+96.78	24.87
333	SW-PI	464622.3054	2872971.7276	127+83.35	8.08
334	SW-PI	464636.4779	2872973.1394	127+97.43	5.95
341	SW-PI	464623.0584	2872992.2065	127+83.05	12.41
342	SW-PI	464626.7506	2873000.1450	127+86.33	20.53
343	SW-PI	464627.4128	2873007.8636	127+86.60	28.27
344	SW-PC	464643.5282	2873010.5798	128+02.55	31.81
345	SW-PT	464708.5354	2873085.3790	128+63.64	109.83
401	FL-PI	464512.5456	2872957.2709	126+74.47	28.14
402	FL-PCC	464523.7957	2872956.0849	126+85.77	28.75
403	FL-PT	464580.7442	2872947.0802	127+43.10	34.82
404	FL-PC	464604.2112	2872942.1712	127+66.79	38.53
405	FL-PT	464718.1899	2872788.8029	128+88.47	185.86
411	FL-PC	464759.2037	2872751.7523	129+31.32	220.76
412	FL-PT	464795.7480	2872851.0322	129+62.74	119.74
413	FL-PC	464796.5526	2872852.3178	129+63.48	118.42

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
414	FL-PT	464955.7676	2872934.6641	131+19.19	22.48
415	FL-PC	464988.5814	2872932.7924	131+52.04	21.47
416	FL-PT	465019.1346	2872930.5788	131+82.67	21.00
417	DW-PI	465034.7316	2872928.7057	131+98.37	21.50
418	DW-PI	465039.7124	2872928.2681	132+03.37	21.50
419	DW-PI	465089.5204	2872923.8900	132+53.37	21.50
420	DW-PI	465094.5012	2872923.4521	132+58.37	21.50
421	DW-PI	465039.5373	2872926.2756	132+03.37	23.50
422	DW-PI	465089.3454	2872921.8972	132+53.37	23.50
423	DW-PI	465038.6617	2872916.3141	132+03.37	33.50
424	DW-PI	465088.4696	2872911.9356	132+53.37	33.50
425	DW-PI	465037.9612	2872908.3449	132+03.37	41.50
426	DW-PI	465087.7791	2872903.9658	132+53.38	41.50
431	FL-PI	464516.8488	2872999.0498	126+76.63	13.81
432	FL-PI	464528.2990	2872997.8427	126+88.13	13.19
433	FL-PC	464585.9778	2872991.6224	127+46.05	9.93
434	FL-PT	464652.7198	2872997.9961	128+12.37	19.71

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
435	FL-PC	464654.3982	2872998.5191	128+14.02	20.32
436	FL-PCC	464713.4233	2873054.7364	128+70.09	79.48
437	FL-PT	464724.7612	2873111.3481	128+78.52	136.60
451	FL-PC	464770.4667	2873122.7581	129+23.58	150.34
452	FL-PT	464853.5003	2873002.6547	130+11.36	36.29
453	FL-PC	464855.0993	2873001.9457	130+13.02	35.73
454	FL-PT	464919.0874	2872983.7460	130+78.35	23.20
455	FL-PC	464939.1146	2872980.9873	130+98.54	22.21
456	FL-PT	464987.9101	2872975.4853	131+47.63	21.00
457	FL-PC	464992.5777	2872975.0750	131+52.32	21.00
458	FL-PT	465027.1156	2872996.2984	131+84.87	45.17
459	FL-PC	465027.6137	2872997.5414	131+85.25	46.45
460	FL-PT	465113.9661	2873022.4997	132+69.09	78.87
461	FL-PC	465139.1383	2873004.2626	132+95.76	62.91
462	FL-PT	465188.0534	2872985.9999	133+46.09	49.00
463	DW-PI	465182.1201	2872987.2099	133+40.07	49.69
464	DW-PI	465185.1319	2872986.8047	133+43.11	49.55

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
465	DW-PI	465227.7086	2872983.0160	133+85.85	49.50
466	DW-PI	465230.6773	2872982.7550	133+88.83	49.50
467	DW-PI	465185.3130	2872989.2488	133+43.07	52.00
468	DW-PI	465228.0039	2872987.0011	133+85.80	53.50
471	FL-PI	464519.1581	2872972.6692	126+80.28	12.42
472	FL-PT	464525.5112	2872971.9926	126+86.66	12.77
473	FL-PC	464527.2083	2872971.8096	126+88.37	12.87
474	FL-PT	464555.6673	2872968.1507	127+16.98	15.07
475	FL-PC	464606.7551	2872960.5180	127+68.39	20.07
476	FL-PI	464661.8668	2872941.8467	128+24.38	35.90
481	FL-PI	464847.1079	2872976.3828	130+07.29	9.56
482	FL-PRC	464848.2143	2872933.3918	130+12.16	33.17
483	FL-PT	464850.2015	2872931.8428	130+14.27	34.53
484	FL-PC	464850.6761	2872932.0764	130+14.73	34.26
485	FL-PT	464957.5493	2872952.0545	131+19.44	5.00
486	FL-PI	464996.0989	2872948.6658	131+58.14	5.00
491	FL-PI	464520.1826	2872982.6165	126+80.80	2.44

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
492	FL-PT	464526.5835	2872981.9350	126+87.23	2.79
493	FL-PC	464527.3118	2872981.8564	126+87.96	2.83
494	FL-PT	464536.4424	2872980.7289	126+97.13	3.49
495	FL-PC	464587.6462	2872973.6018	127+48.64	7.98
496	FL-PT	464668.0728	2872981.1227	128+28.57	3.64
497	FL-PC	464668.4860	2872981.2618	128+28.98	3.80
498	FL-PRC	464670.2704	2872979.5219	128+30.85	2.16
499	FL-PI	464666.5418	2872945.1258	128+28.89	32.38
501	FL-PI	464851.0066	2872980.3008	130+10.83	13.81
502	FL-PT	464916.0252	2872965.7432	130+76.88	5.00
503	FL-PI	464996.9746	2872958.6274	131+58.14	5.00
511	FL-PC	465180.2061	2872962.5972	133+40.32	25.00
512	FL-PT	465133.0205	2872973.4495	132+92.36	31.68
513	FL-PC	465102.3725	2872985.1413	132+60.81	40.64
514	FL-PT	465090.2008	2872977.5383	132+49.35	32.00
515	FL-PC	465090.0231	2872975.5619	132+49.35	30.02
516	FL-PT	465098.1988	2872965.7910	132+58.35	21.00

N

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Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

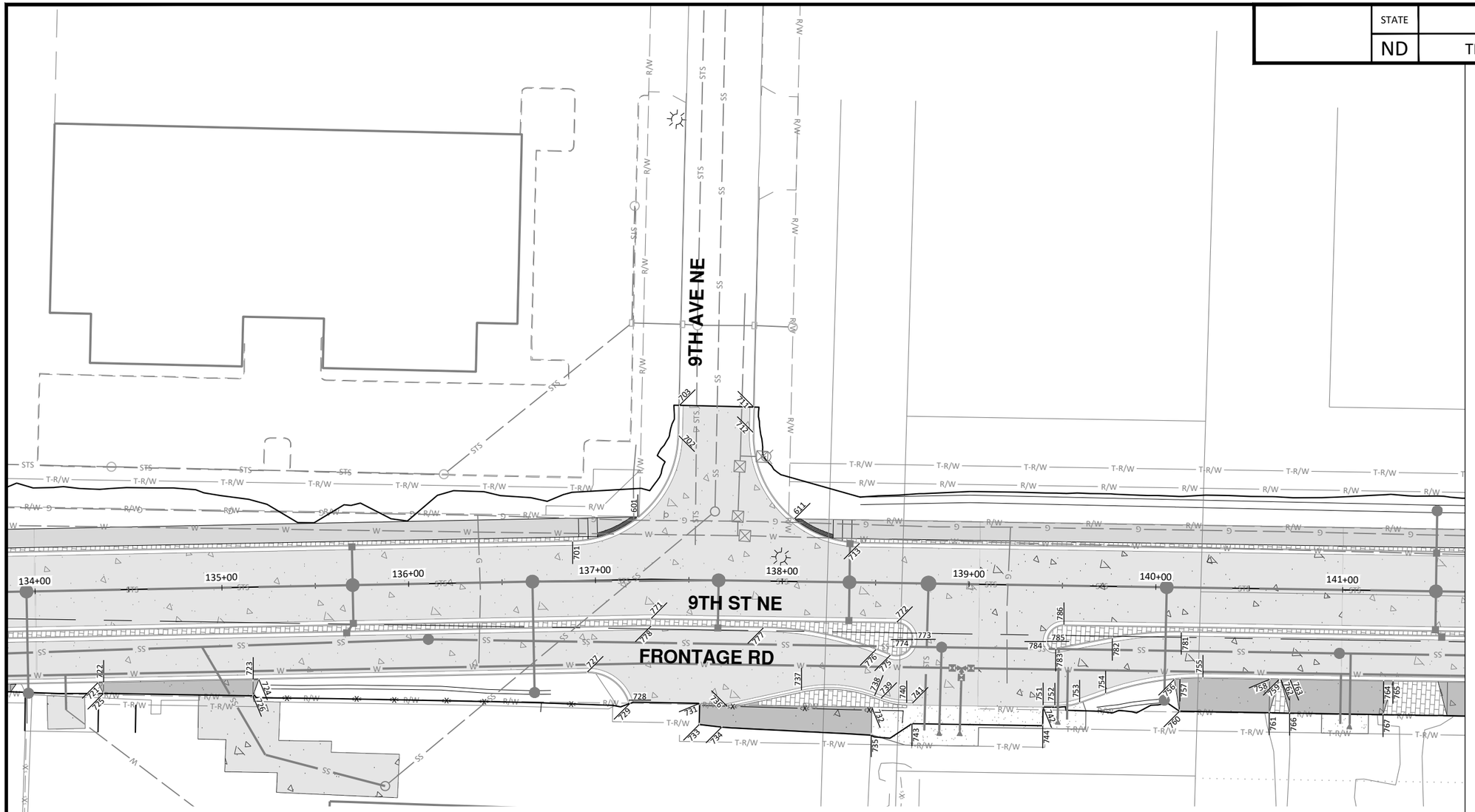
8/13/2025

General Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	3



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Scale Feet

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PE-10407
DATE
NORTH DAKOTA

8/13/2025

General Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
601	SW-PI	465556.6301	2872870.7825	137+23.34	33.50
611	SW-PI	465640.3385	2872866.1276	138+06.00	33.50
701	FL-PC	465522.7030	2872886.3130	136+88.18	21.00
702	FL-PT	465575.5658	2872825.9361	137+43.43	77.04
703	FL-PI	465574.8352	2872809.6522	137+43.56	93.34
711	FL-PI	465614.5036	2872807.8723	137+83.27	93.03
712	FL-PC	465615.1125	2872821.4417	137+83.16	79.45
713	FL-PT	465676.1039	2872876.7617	138+41.16	21.00
721	DW-PI	465274.3903	2872978.9125	134+32.71	49.50
722	DW-PI	465277.3794	2872978.6501	134+35.71	49.50
723	DW-PI	465357.1211	2872971.6402	135+15.76	49.50
724	DW-PI	465360.1835	2872971.3710	135+18.84	49.50
725	DW-PI	465277.6870	2872984.4917	134+35.51	55.35
726	DW-PI	465357.5811	2872980.3772	135+15.46	58.24
727	FL-PC	465535.3534	2872955.4709	136+94.73	49.00
728	FL-PT	465558.3605	2872968.9862	137+16.46	64.48

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
729	FL-PI	465559.1367	2872970.7205	137+17.08	66.27
731	DW-PI	465596.4533	2872968.0758	137+56.82	66.00
732	DW-PI	465688.4572	2872963.8747	138+48.92	66.64
733	DW-PI	465596.9664	2872979.4340	137+56.73	77.37
734	DW-PI	465609.1030	2872979.9837	0+00.00	0.00
735	DW-PI	465689.2268	2872978.6247	0+00.00	0.00
736	FL-PI	465611.3094	2872968.7576	137+71.62	67.46
737	FL-PC	465650.3753	2872957.4320	138+11.22	58.21
738	FL-PT	465689.5850	2872957.7468	138+50.36	60.58
739	FL-PC	465693.0967	2872958.8285	138+53.81	61.85
740	FL-PT	465707.0569	2872960.4101	138+67.67	64.16
741	FL-PI	465710.0206	2872960.2531	138+70.64	64.16
742	DW-PI	465779.9767	2872957.5765	139+40.64	65.17
743	DW-PI	465710.6014	2872971.2537	138+70.64	75.18
744	DW-PI	465780.5040	2872967.5626	139+40.64	75.17
751	FL-PI	465779.9232	2872956.5623	139+40.64	64.15

Point Table

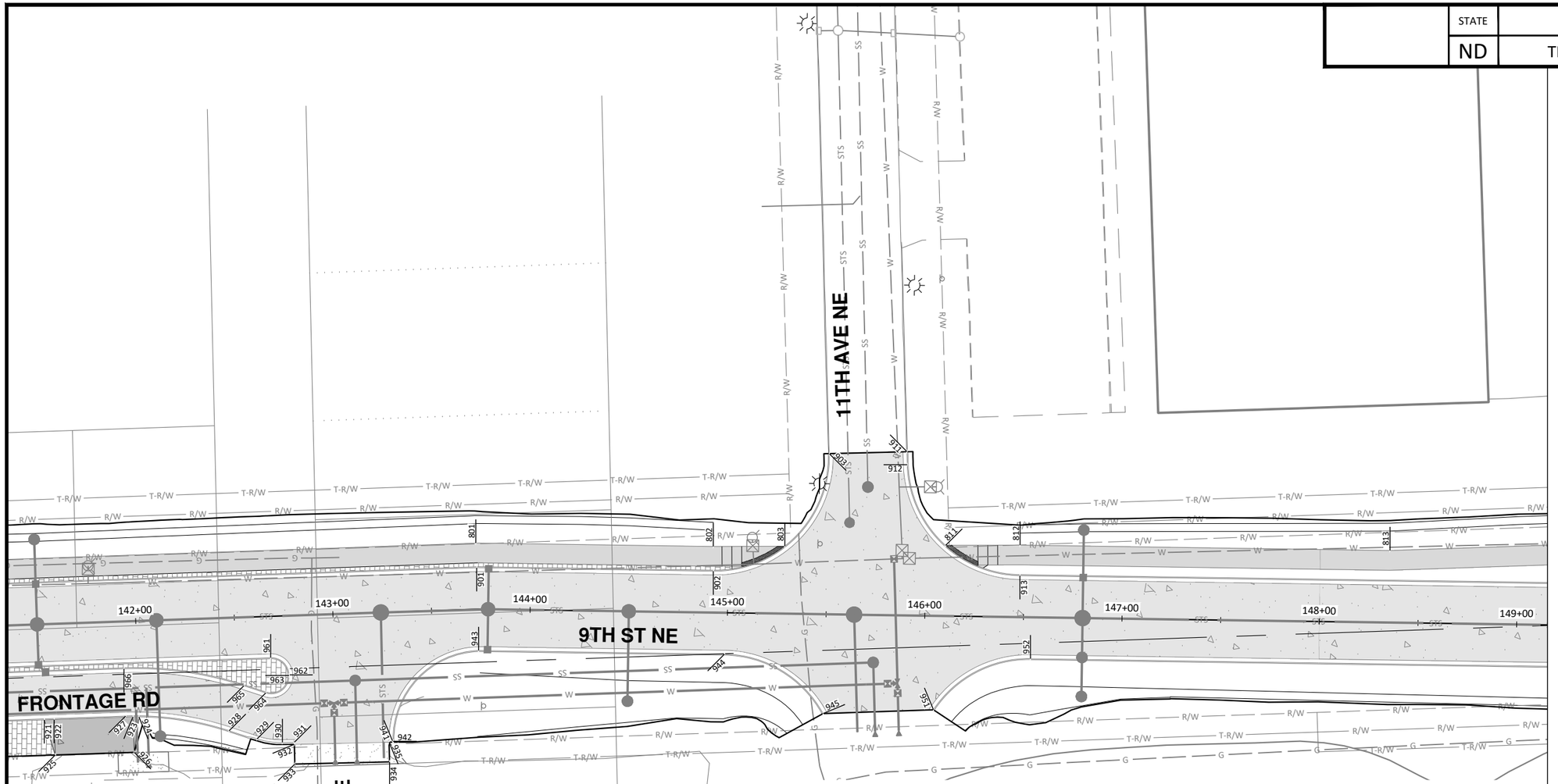
Point #	Raw Description	Northing	Easting	Station	Offset
752	FL-PC	465786.2357	2872956.2290	139+46.96	64.15
753	FL-PT	465799.3676	2872953.6980	139+60.21	62.31
754	FL-PC	465812.8636	2872947.9281	139+73.99	57.26
755	FL-PT	465864.2933	2872935.9483	140+25.98	48.00
756	DW-PI	465849.1029	2872938.0419	140+10.70	49.29
757	DW-PI	465852.0844	2872937.6064	140+13.70	49.01
758	DW-PI	465899.9911	2872934.5731	140+61.70	48.50
759	DW-PI	465904.9848	2872934.3102	140+66.70	48.51
760	DW-PI	465852.9930	2872954.8642	140+13.70	66.30
761	DW-PI	465900.9295	2872952.3956	140+61.70	66.35
762	DW-PI	465905.9664	2872934.2552	140+67.68	48.50
763	DW-PI	465910.9600	2872933.9923	140+72.68	48.50
764	DW-PI	465960.8911	2872931.3674	141+22.68	48.51
765	DW-PI	465965.8847	2872931.1044	141+27.68	48.51
766	DW-PI	465911.8992	2872951.8306	140+72.68	66.36
767	DW-PI	465961.8331	2872949.2591	141+22.68	66.42

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
771	FL-PI	465567.4672	2872924.5400	137+30.16	21.00
772	FL-PC	465698.7637	2872917.6262	138+61.64	21.00
773	FL-PT	465708.2245	2872926.1410	138+70.64	30.00
774	FL-PC	465708.2307	2872926.2580	138+70.64	30.12
775	FL-PT	465696.5937	2872935.3324	138+58.54	38.57
776	FL-PC	465688.7029	2872932.9019	138+50.79	35.73
777	FL-PT	465627.8119	2872925.3682	137+90.38	25.00
778	FL-PI	465567.7476	2872928.5308	137+29.35	25.00
781	FL-PC	465851.0643	2872912.6116	140+13.99	24.00
782	FL-PT	465814.4779	2872918.3098	139+77.16	27.77
783	FL-PC	465784.6468	2872926.1307	139+46.96	34.01
784	FL-PT	465779.6379	2872922.4718	139+42.15	30.09
785	FL-PC	465779.6332	2872922.3811	139+42.15	30.00
786	FL-PT	465788.1474	2872912.9195	139+51.15	21.00

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	4



N

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Scale Feet

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
801	SW-PI	466207.1849	2872836.2808	143+73.64	33.50
802	SW-PI	466327.5466	2872835.8603	144+92.34	33.50
803	SW-PI	466363.7761	2872835.0476	145+28.57	34.20
811	SW-PI	466445.2174	2872833.2207	146+10.02	35.77
812	SW-PI	466482.9859	2872832.3735	146+47.79	36.50
813	SW-PI	466670.4554	2872831.7863	148+35.26	36.49
901	FL-PI	466207.8421	2872848.7610	143+73.64	21.00
902	FL-PC	466327.7770	2872848.3590	144+92.53	21.00
903	FL-PI	466385.5377	2872787.8234	145+50.48	81.35
911	FL-PI	466424.7436	2872785.9628	145+89.69	83.09
912	FL-PC	466425.0615	2872792.6335	145+89.99	76.42
913	FL-PT	466483.1744	2872847.8724	146+47.93	21.00
921	DW-PI	465990.0859	2872929.8201	141+51.92	48.50
922	DW-PI	465995.0795	2872929.5572	141+56.92	48.50
923	DW-PI	466035.0269	2872927.5055	141+96.92	48.55
924	DW-PI	466038.0492	2872927.4511	141+99.94	48.65
925	DW-PI	465996.0242	2872947.4983	141+56.92	66.46
926	DW-PI	466035.9712	2872945.4411	141+96.92	66.51
927	FL-PC	466031.2957	2872927.1556	141+93.21	48.00
928	FL-PT	466083.8645	2872933.6598	142+45.36	57.26

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
929	FL-PC	466098.1004	2872937.5051	142+59.38	61.85
930	FL-PT	466110.9900	2872939.1500	142+72.16	64.17
931	FL-PI	466117.0414	2872938.9058	142+78.22	64.25
932	DW-PI	466117.0823	2872939.9208	142+78.21	65.26
933	DW-PI	466117.4855	2872949.9127	142+78.08	75.26
934	DW-PI	466165.4465	2872947.9772	143+26.08	75.85
935	DW-PI	466165.0433	2872937.9883	143+26.20	65.85
941	FL-PI	466167.0429	2872937.9445	143+28.20	65.91
942	FL-PC	466167.0332	2872937.4732	143+28.22	65.44
943	FL-PT	466209.5819	2872890.7301	143+74.20	21.00
944	FL-PC	466334.1643	2872890.3378	144+98.79	21.00
945	FL-PI	466384.6924	2872919.5394	145+49.22	50.36
951	FL-PI	466440.5862	2872916.6229	146+05.13	47.62
952	FL-PT	466489.2802	2872889.8495	146+53.90	21.00
961	FL-PC	466104.2705	2872896.2731	142+67.71	21.00
962	FL-PT	466113.7314	2872904.7891	142+76.71	30.00
963	FL-PC	466113.7474	2872905.0926	142+76.71	30.31
964	FL-PT	466102.1104	2872914.1670	142+64.61	38.76
965	FL-PC	466090.9266	2872910.7221	142+53.62	34.73
966	FL-PT	466030.0370	2872903.1884	141+93.21	24.00

CITY OF WEST FARGO

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NORTH DAKOTA

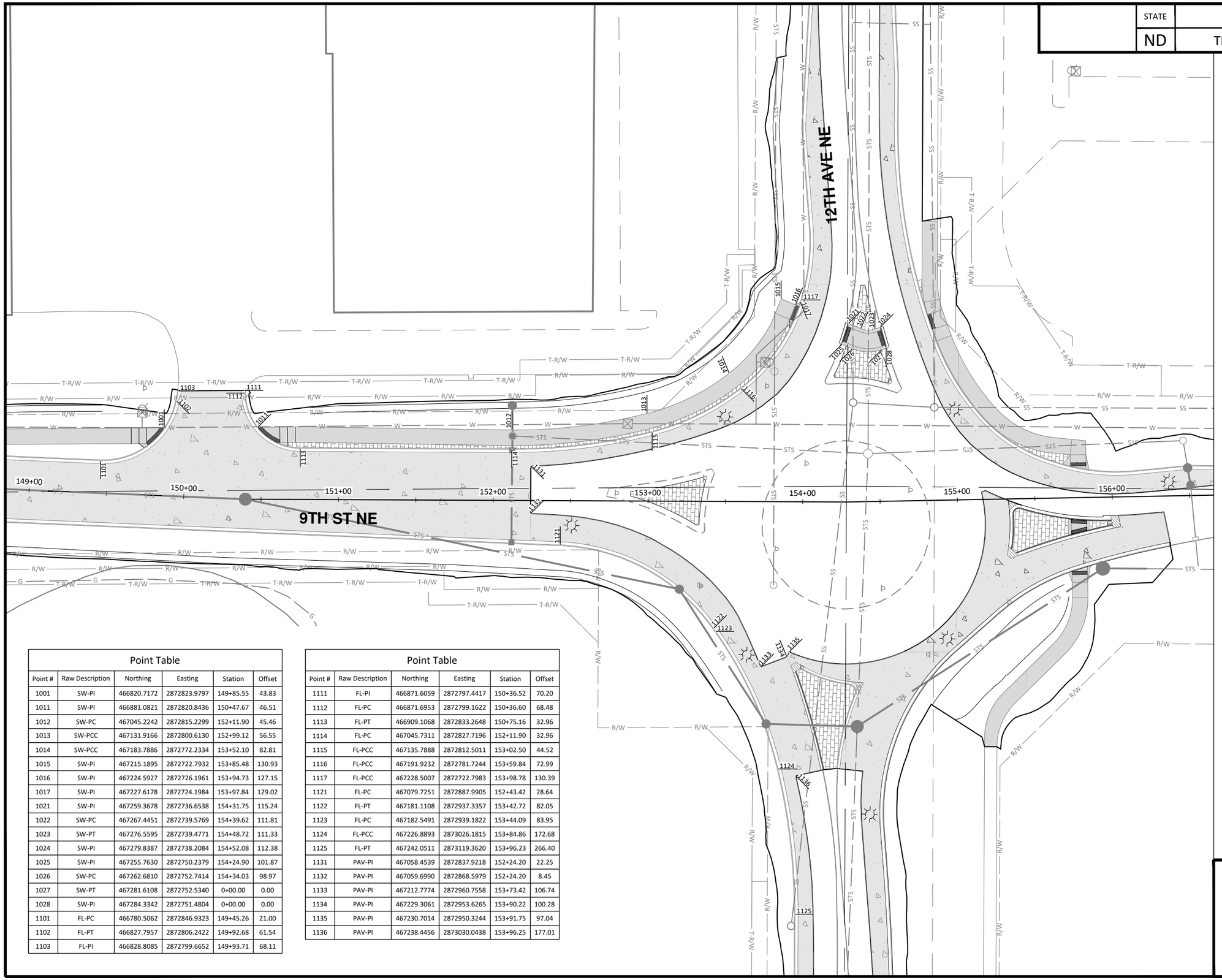
8/13/2025

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7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	5



N

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Scale Feet

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7th Ave NE from 9th St NE to 45th St N

Point Table

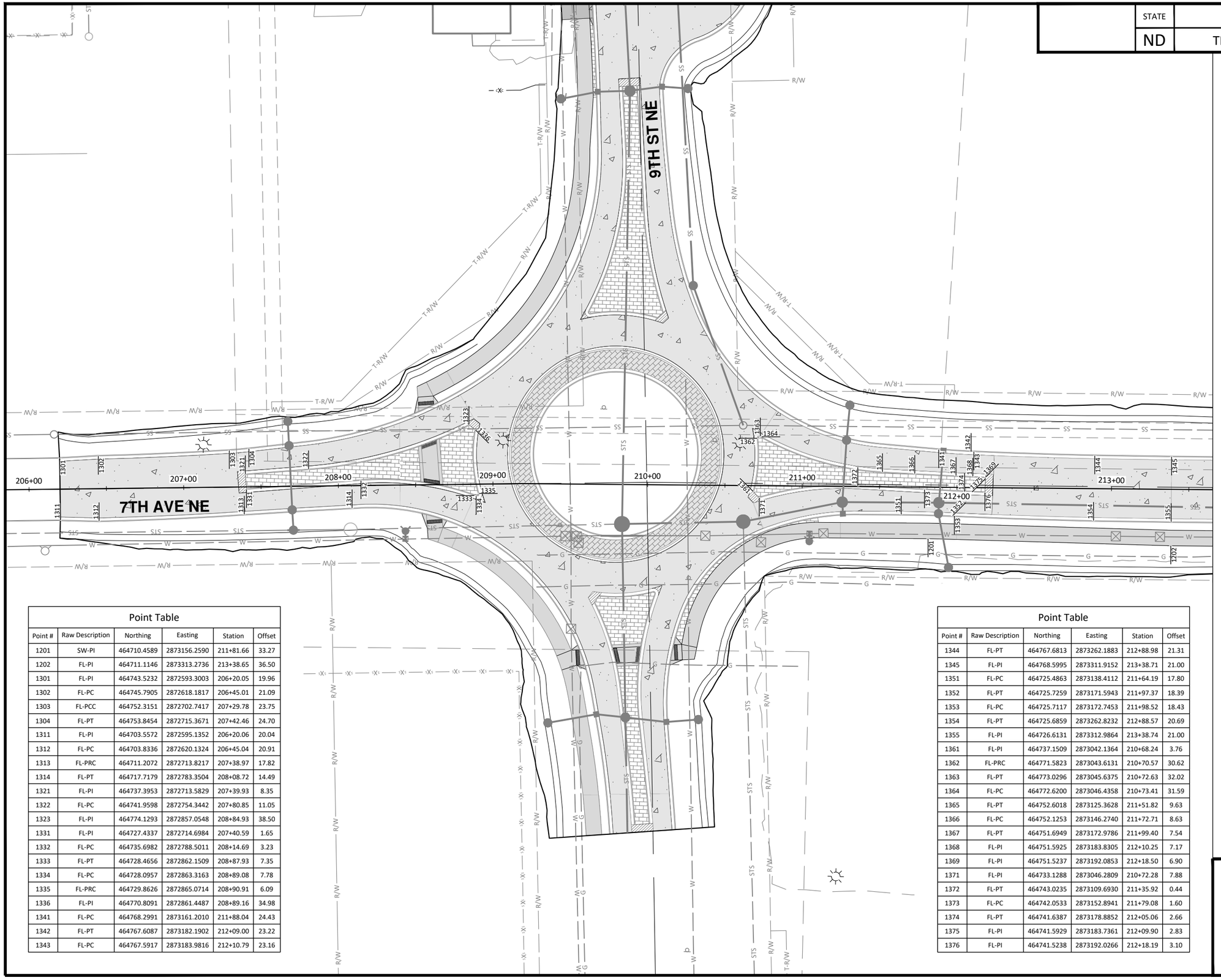
Point #	Raw Description	Northing	Easting	Station	Offset
1001	SW-PI	466820.7172	2872823.9797	149+85.55	43.83
1011	SW-PI	466881.0821	2872820.8436	150+47.67	46.51
1012	SW-PC	467045.2242	2872815.2299	152+11.90	45.46
1013	SW-PCC	467131.9166	2872800.6130	152+99.12	56.55
1014	SW-PCC	467183.7886	2872772.2334	153+52.10	82.81
1015	SW-PI	467215.1895	2872722.7932	153+85.48	130.93
1016	SW-PI	467224.5927	2872726.1961	153+94.73	127.15
1017	SW-PI	467227.6178	2872724.1984	153+97.84	129.02
1021	SW-PI	467259.3678	2872736.6538	154+31.75	115.24
1022	SW-PC	467267.4451	2872739.5769	154+39.62	111.81
1023	SW-PT	467276.5595	2872739.4771	154+48.72	111.33
1024	SW-PI	467279.8387	2872738.2084	154+52.08	112.38
1025	SW-PI	467255.7630	2872750.2379	154+24.90	101.87
1026	SW-PC	467262.6810	2872752.7414	154+34.03	98.97
1027	SW-PT	467281.6108	2872752.5340	0+00.00	0.00
1028	SW-PI	467284.3342	2872751.4804	0+00.00	0.00
1101	FL-PC	466780.5062	2872846.9323	149+45.26	21.00
1102	FL-PT	466827.7957	2872806.2422	149+92.68	61.54
1103	FL-PI	466828.8085	2872799.6652	149+93.71	68.11

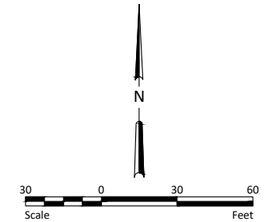
Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
1111	FL-PI	466871.6059	2872797.4417	150+36.52	70.20
1112	FL-PC	466871.6953	2872799.1622	150+36.60	68.48
1113	FL-PT	466909.1068	2872833.2648	150+75.16	32.96
1114	FL-PC	467045.7311	2872827.7196	152+11.90	32.96
1115	FL-PCC	467135.7888	2872812.5011	153+02.50	44.52
1116	FL-PCC	467191.9232	2872781.7244	153+59.84	72.99
1117	FL-PCC	467228.5007	2872722.7983	153+98.78	130.39
1121	FL-PC	467079.7251	2872887.9905	152+43.42	28.64
1122	FL-PT	467181.1108	2872937.3357	153+42.72	82.05
1123	FL-PC	467182.5491	2872939.1822	153+44.09	83.95
1124	FL-PCC	467226.8893	2873026.1815	153+84.86	172.68
1125	FL-PT	467242.0511	2873119.3620	153+96.23	266.40
1131	PAV-PI	467058.4539	2872837.9218	152+24.20	22.25
1132	PAV-PI	467059.6990	2872868.5979	152+24.20	8.45
1133	PAV-PI	467212.7774	2872960.7558	153+73.42	106.74
1134	PAV-PI	467229.3061	2872953.6265	153+90.22	100.28
1135	PAV-PI	467230.7014	2872950.3244	153+91.75	97.04
1136	PAV-PI	467238.4456	2873030.0438	153+96.25	177.01

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	6





Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
1201	SW-PI	464710.4589	2873156.2590	211+81.66	33.27
1202	FL-PI	464711.1146	2873313.2736	213+38.65	36.50
1301	FL-PI	464743.5232	2872593.3003	206+20.05	19.96
1302	FL-PC	464745.7905	2872618.1817	206+45.01	21.09
1303	FL-PCC	464752.3151	2872702.7417	207+29.78	23.75
1304	FL-PT	464753.8454	2872715.3671	207+42.46	24.70
1311	FL-PI	464703.5572	2872595.1352	206+20.06	20.04
1312	FL-PC	464703.8336	2872620.1324	206+45.04	20.91
1313	FL-PRC	464711.2072	2872713.8217	207+38.97	17.82
1314	FL-PT	464717.7179	2872783.3504	208+08.72	14.49
1321	FL-PI	464737.3953	2872713.5829	207+39.93	8.35
1322	FL-PC	464741.9598	2872754.3442	207+80.85	11.05
1323	FL-PI	464774.1293	2872857.0548	208+84.93	38.50
1331	FL-PI	464727.4337	2872714.6984	207+40.59	1.65
1332	FL-PC	464735.6982	2872788.5011	208+14.69	3.23
1333	FL-PT	464728.4656	2872862.1509	208+87.93	7.35
1334	FL-PC	464728.0957	2872863.3163	208+89.08	7.78
1335	FL-PRC	464729.8626	2872865.0714	208+90.91	6.09
1336	FL-PI	464770.8091	2872861.4487	208+89.16	34.98
1341	FL-PC	464768.2991	2873161.2010	211+88.04	24.43
1342	FL-PT	464767.6087	2873182.1902	212+09.00	23.22
1343	FL-PC	464767.5917	2873183.9816	212+10.79	23.16

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
1344	FL-PT	464767.6813	2873262.1883	212+88.98	21.31
1345	FL-PI	464768.5995	2873311.9152	213+38.71	21.00
1351	FL-PC	464725.4863	2873138.4112	211+64.19	17.80
1352	FL-PT	464725.7259	2873171.5943	211+97.37	18.39
1353	FL-PC	464725.7117	2873172.7453	211+98.52	18.43
1354	FL-PT	464725.6859	2873262.8232	212+88.57	20.69
1355	FL-PI	464726.6131	2873312.9864	213+38.74	21.00
1361	FL-PI	464737.1509	2873042.1364	210+68.24	3.76
1362	FL-PRC	464771.5823	2873043.6131	210+70.57	30.62
1363	FL-PT	464773.0296	2873045.6375	210+72.63	32.02
1364	FL-PC	464772.6200	2873046.4358	210+73.41	31.59
1365	FL-PT	464752.6018	2873125.3628	211+51.82	9.63
1366	FL-PC	464752.1253	2873146.2740	211+72.71	8.63
1367	FL-PT	464751.6949	2873172.9786	211+99.40	7.54
1368	FL-PI	464751.5925	2873183.8305	212+10.25	7.17
1369	FL-PI	464751.5237	2873192.0853	212+18.50	6.90
1371	FL-PI	464733.1288	2873046.2809	210+72.28	7.88
1372	FL-PT	464743.0235	2873109.6930	211+35.92	0.44
1373	FL-PC	464742.0533	2873152.8941	211+79.08	1.60
1374	FL-PT	464741.6387	2873178.8852	212+05.06	2.66
1375	FL-PI	464741.5929	2873183.7361	212+09.90	2.83
1376	FL-PI	464741.5238	2873192.0266	212+18.19	3.10

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

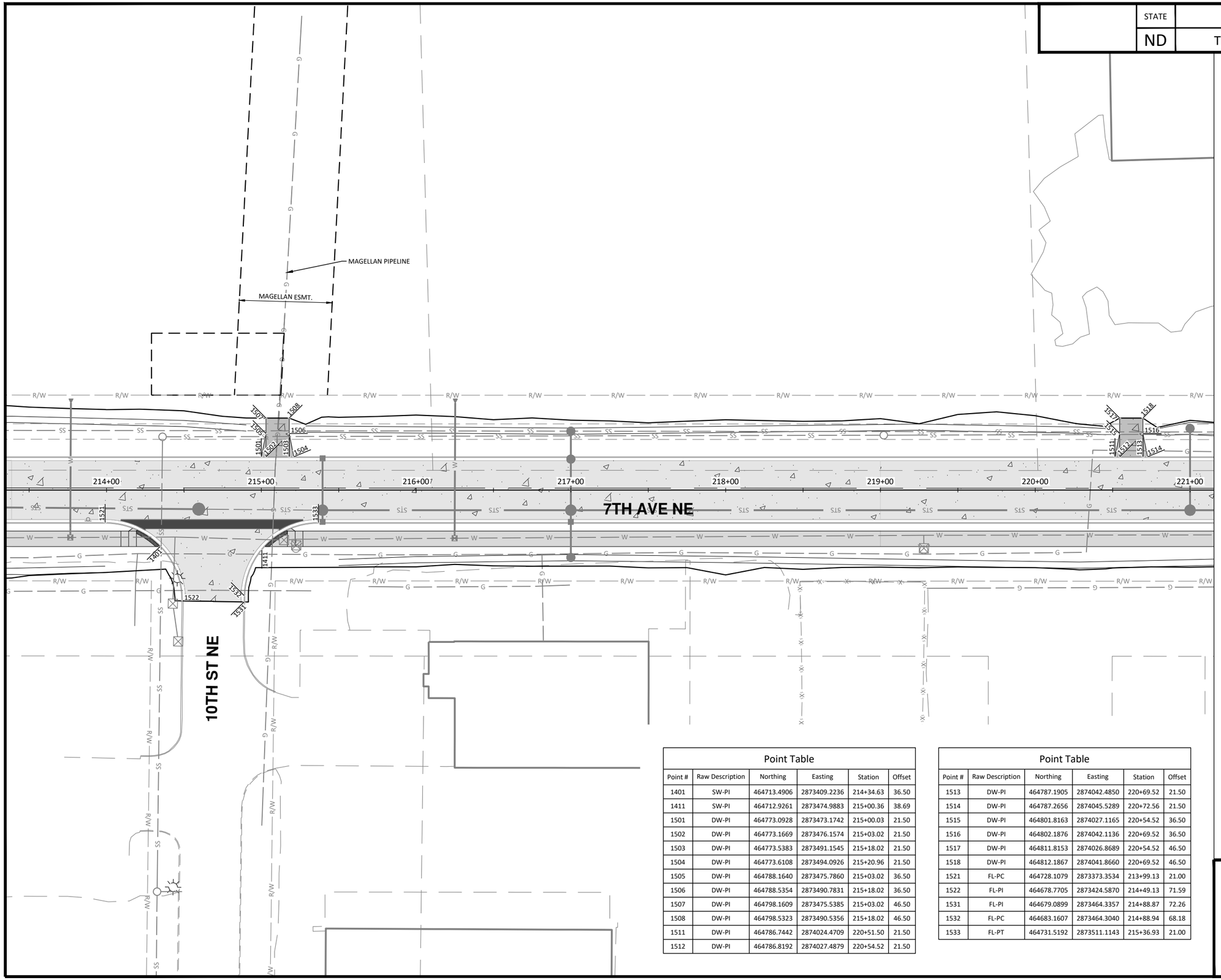
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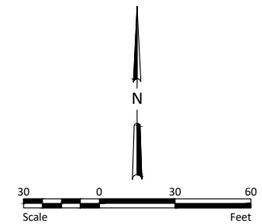
General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	7





WARNING
HIGH-PRESSURE PIPELINE(S)
Excavation and/or Construction Prohibited
Without compliance with **State One-Call**, AND
Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.
A MAGELLAN REPRESENTATIVE MUST BE PRESENT DURING WORK AROUND PIPELINE(S)

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8/13/2025

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
1401	SW-PI	464713.4906	2873409.2236	214+34.63	36.50
1411	SW-PI	464712.9261	2873474.9883	215+00.36	38.69
1501	DW-PI	464773.0928	2873473.1742	215+00.03	21.50
1502	DW-PI	464773.1669	2873476.1574	215+03.02	21.50
1503	DW-PI	464773.5383	2873491.1545	215+18.02	21.50
1504	DW-PI	464773.6108	2873494.0926	215+20.96	21.50
1505	DW-PI	464788.1640	2873475.7860	215+03.02	36.50
1506	DW-PI	464788.5354	2873490.7831	215+18.02	36.50
1507	DW-PI	464798.1609	2873475.5385	215+03.02	46.50
1508	DW-PI	464798.5323	2873490.5356	215+18.02	46.50
1511	DW-PI	464786.7442	2874024.4709	220+51.50	21.50
1512	DW-PI	464786.8192	2874027.4879	220+54.52	21.50

Point Table

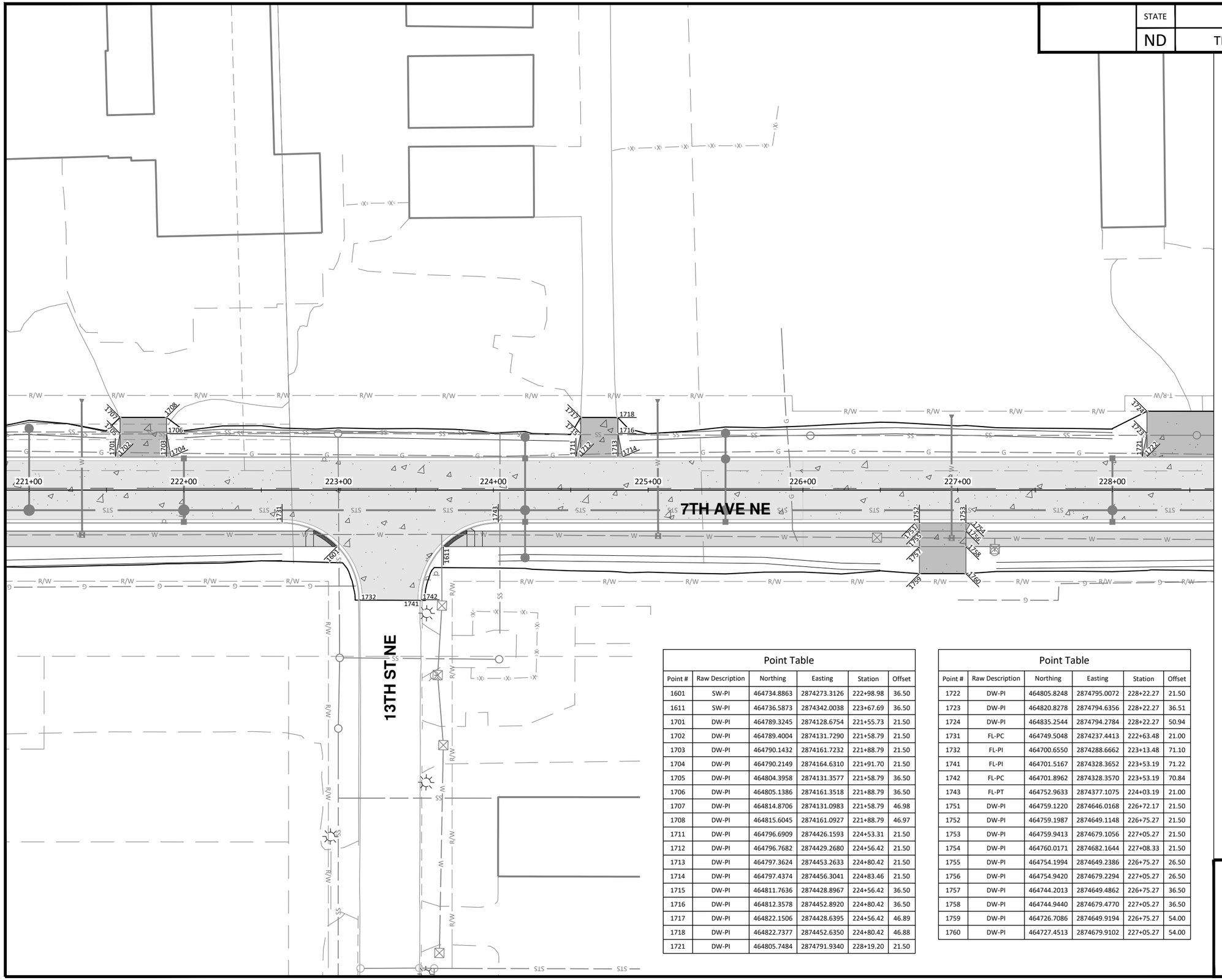
Point #	Raw Description	Northing	Easting	Station	Offset
1513	DW-PI	464787.1905	2874042.4850	220+69.52	21.50
1514	DW-PI	464787.2656	2874045.5289	220+72.56	21.50
1515	DW-PI	464801.8163	2874027.1165	220+54.52	36.50
1516	DW-PI	464802.1876	2874042.1136	220+69.52	36.50
1517	DW-PI	464811.8153	2874026.8689	220+54.52	46.50
1518	DW-PI	464812.1867	2874041.8660	220+69.52	46.50
1521	FL-PC	464728.1079	2873373.3534	213+99.13	21.00
1522	FL-PI	464678.7705	2873424.5870	214+49.13	71.59
1531	FL-PI	464679.0899	2873464.3357	214+88.87	72.26
1532	FL-PC	464683.1607	2873464.3040	214+88.94	68.18
1533	FL-PT	464731.5192	2873511.1143	215+36.93	21.00

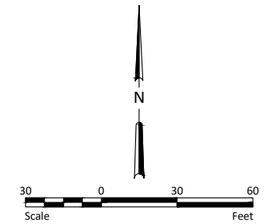
General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	8





Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
1601	SW-PI	464734.8863	2874273.3126	222+98.98	36.50
1611	SW-PI	464736.5873	2874342.0038	223+67.69	36.50
1701	DW-PI	464789.3245	2874128.6754	221+55.73	21.50
1702	DW-PI	464789.4004	2874131.7290	221+58.79	21.50
1703	DW-PI	464790.1432	2874161.7232	221+88.79	21.50
1704	DW-PI	464790.2149	2874164.6310	221+91.70	21.50
1705	DW-PI	464804.3958	2874131.3577	221+58.79	36.50
1706	DW-PI	464805.1386	2874161.3518	221+88.79	36.50
1707	DW-PI	464814.8706	2874131.0983	221+58.79	46.98
1708	DW-PI	464815.6045	2874161.0927	221+88.79	46.97
1711	DW-PI	464796.6909	2874426.1593	224+53.31	21.50
1712	DW-PI	464796.7682	2874429.2680	224+56.42	21.50
1713	DW-PI	464797.3624	2874453.2633	224+80.42	21.50
1714	DW-PI	464797.4374	2874456.3041	224+83.46	21.50
1715	DW-PI	464811.7636	2874428.8967	224+56.42	36.50
1716	DW-PI	464812.3578	2874452.8920	224+80.42	36.50
1717	DW-PI	464822.1506	2874428.6395	224+56.42	46.89
1718	DW-PI	464822.7377	2874452.6350	224+80.42	46.88
1721	DW-PI	464805.7484	2874791.9340	228+19.20	21.50

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
1722	DW-PI	464805.8248	2874795.0072	228+22.27	21.50
1723	DW-PI	464820.8278	2874794.6356	228+22.27	36.51
1724	DW-PI	464835.2544	2874794.2784	228+22.27	50.94
1731	FL-PC	464749.5048	2874237.4413	222+63.48	21.00
1732	FL-PI	464700.6550	2874288.6662	223+13.48	71.10
1741	FL-PI	464701.5167	2874328.3652	223+53.19	71.22
1742	FL-PC	464701.8962	2874328.3570	223+53.19	70.84
1743	FL-PT	464752.9633	2874377.1075	224+03.19	21.00
1751	DW-PI	464759.1220	2874646.0168	226+72.17	21.50
1752	DW-PI	464759.1987	2874649.1148	226+75.27	21.50
1753	DW-PI	464759.9413	2874679.1056	227+05.27	21.50
1754	DW-PI	464760.0171	2874682.1644	227+08.33	21.50
1755	DW-PI	464754.1994	2874649.2386	226+75.27	26.50
1756	DW-PI	464754.9420	2874679.2294	227+05.27	26.50
1757	DW-PI	464744.2013	2874649.4862	226+75.27	36.50
1758	DW-PI	464744.9440	2874679.4770	227+05.27	36.50
1759	DW-PI	464726.7086	2874649.9194	226+75.27	54.00
1760	DW-PI	464727.4513	2874679.9102	227+05.27	54.00

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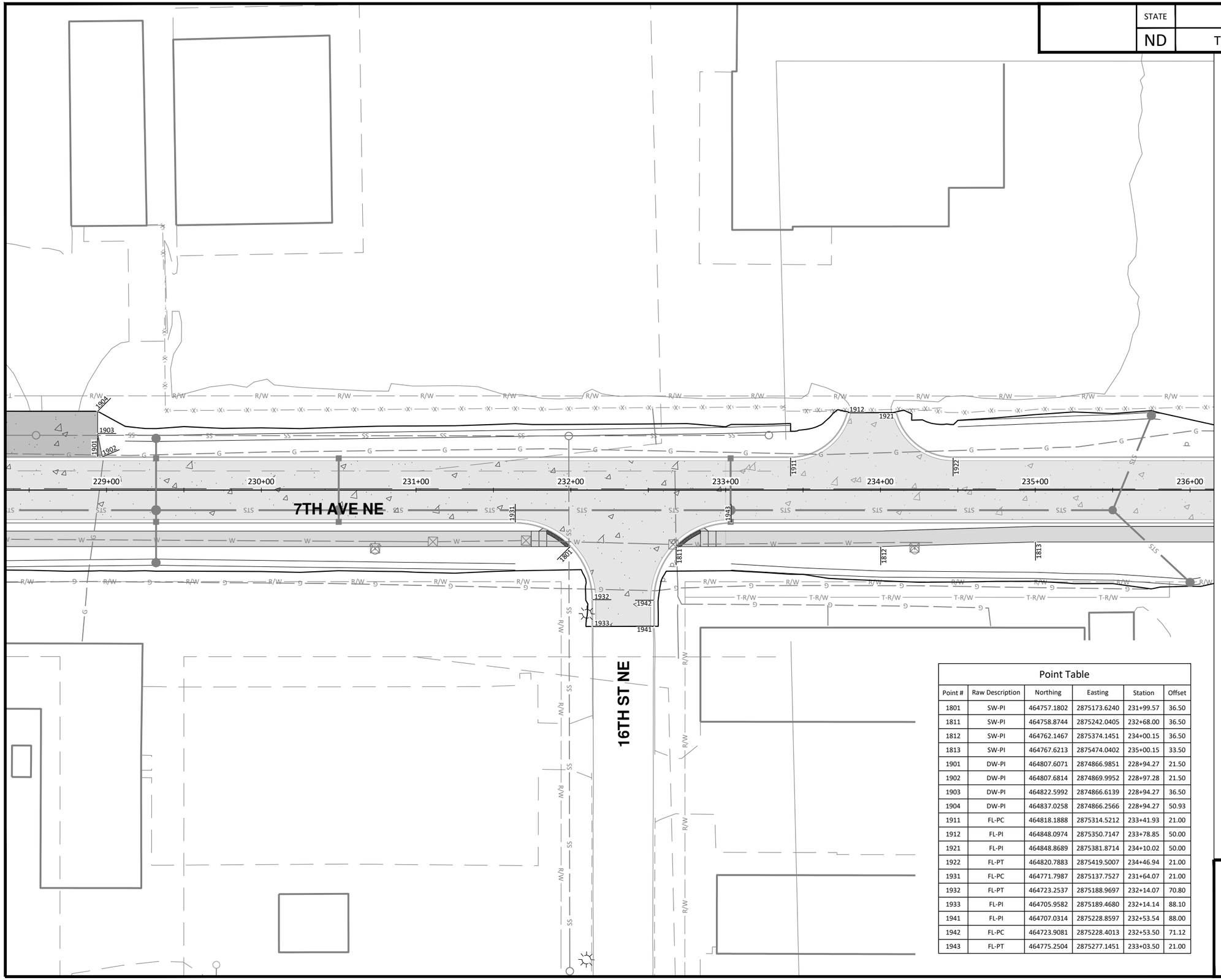
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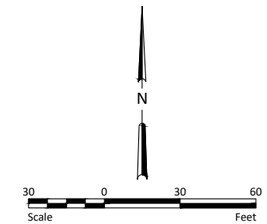
General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	9





Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
1801	SW-PI	464757.1802	2875173.6240	231+99.57	36.50
1811	SW-PI	464758.8744	2875242.0405	232+68.00	36.50
1812	SW-PI	464762.1467	2875374.1451	234+00.15	36.50
1813	SW-PI	464767.6213	2875474.0402	235+00.15	33.50
1901	DW-PI	464807.6071	2874866.9851	228+94.27	21.50
1902	DW-PI	464807.6814	2874869.9952	228+97.28	21.50
1903	DW-PI	464822.5992	2874866.6139	228+94.27	36.50
1904	DW-PI	464837.0258	2874866.2566	228+94.27	50.93
1911	FL-PC	464818.1888	2875314.5212	233+41.93	21.00
1912	FL-PI	464848.0974	2875350.7147	233+78.85	50.00
1921	FL-PI	464848.8689	2875381.8714	234+10.02	50.00
1922	FL-PT	464820.7883	2875419.5007	234+46.94	21.00
1931	FL-PC	464771.7987	2875137.7527	231+64.07	21.00
1932	FL-PT	464723.2537	2875188.9697	232+14.07	70.80
1933	FL-PI	464705.9582	2875189.4680	232+14.14	88.10
1941	FL-PI	464707.0314	2875228.8597	232+53.54	88.00
1942	FL-PC	464723.9081	2875228.4013	232+53.50	71.12
1943	FL-PT	464775.2504	2875277.1451	233+03.50	21.00

CITY OF WEST FARGO

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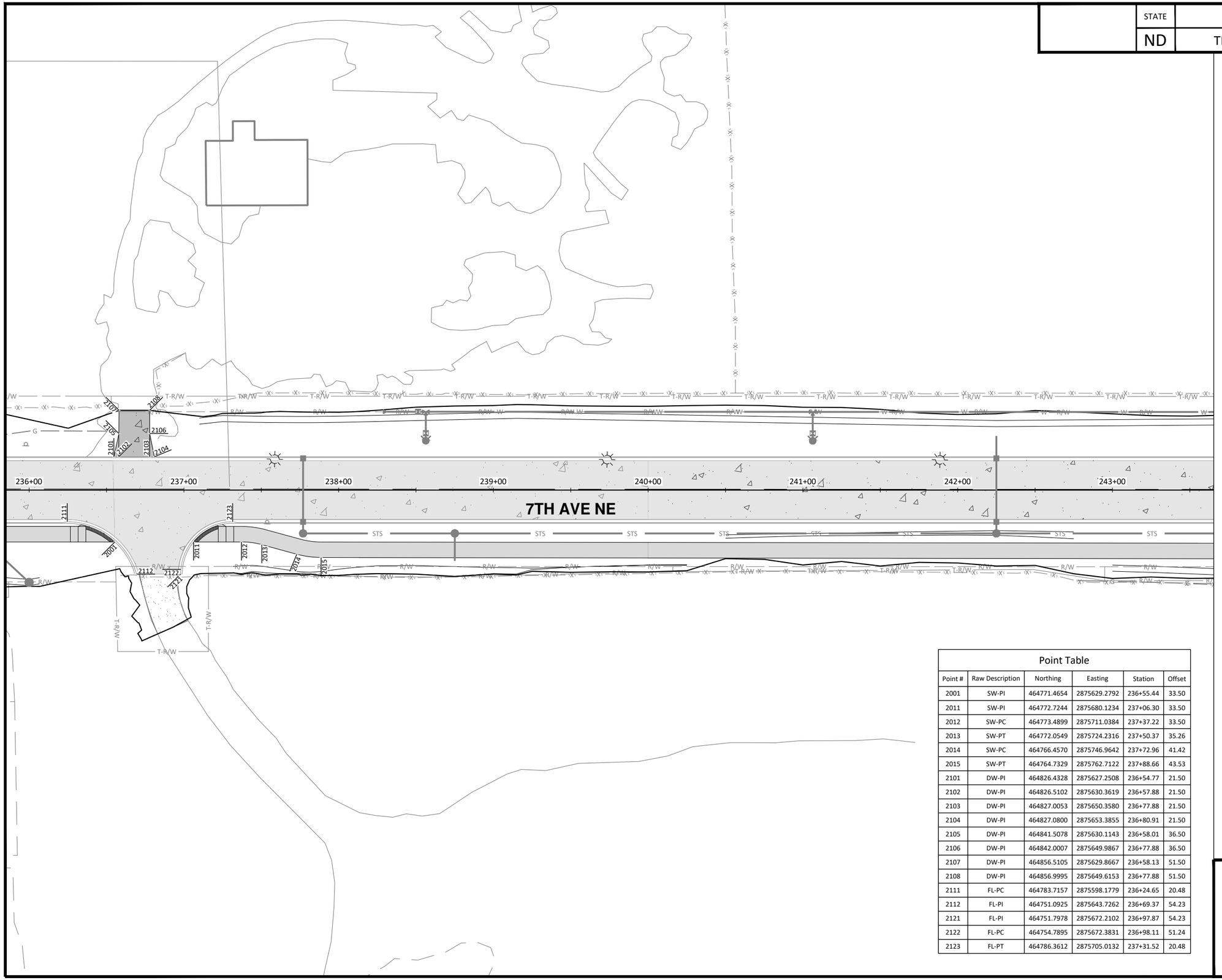
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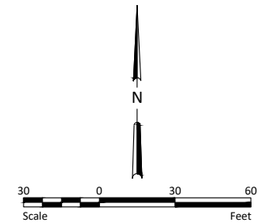
General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	10





Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
2001	SW-PI	464771.4654	2875629.2792	236+55.44	33.50
2011	SW-PI	464772.7244	2875680.1234	237+06.30	33.50
2012	SW-PC	464773.4899	2875711.0384	237+37.22	33.50
2013	SW-PT	464772.0549	2875724.2316	237+50.37	35.26
2014	SW-PC	464766.4570	2875746.9642	237+72.96	41.42
2015	SW-PT	464764.7329	2875762.7122	237+88.66	43.53
2101	DW-PI	464826.4328	2875627.2508	236+54.77	21.50
2102	DW-PI	464826.5102	2875630.3619	236+57.88	21.50
2103	DW-PI	464827.0053	2875650.3580	236+77.88	21.50
2104	DW-PI	464827.0800	2875653.3855	236+80.91	21.50
2105	DW-PI	464841.5078	2875630.1143	236+58.01	36.50
2106	DW-PI	464842.0007	2875649.9867	236+77.88	36.50
2107	DW-PI	464856.5105	2875629.8667	236+58.13	51.50
2108	DW-PI	464856.9995	2875649.6153	236+77.88	51.50
2111	FL-PC	464783.7157	2875598.1779	236+24.65	20.48
2112	FL-PI	464751.0925	2875643.7262	236+69.37	54.23
2121	FL-PI	464751.7978	2875672.2102	236+97.87	54.23
2122	FL-PC	464754.7895	2875672.3831	236+98.11	51.24
2123	FL-PT	464786.3612	2875705.0132	237+31.52	20.48

CITY OF WEST FARGO

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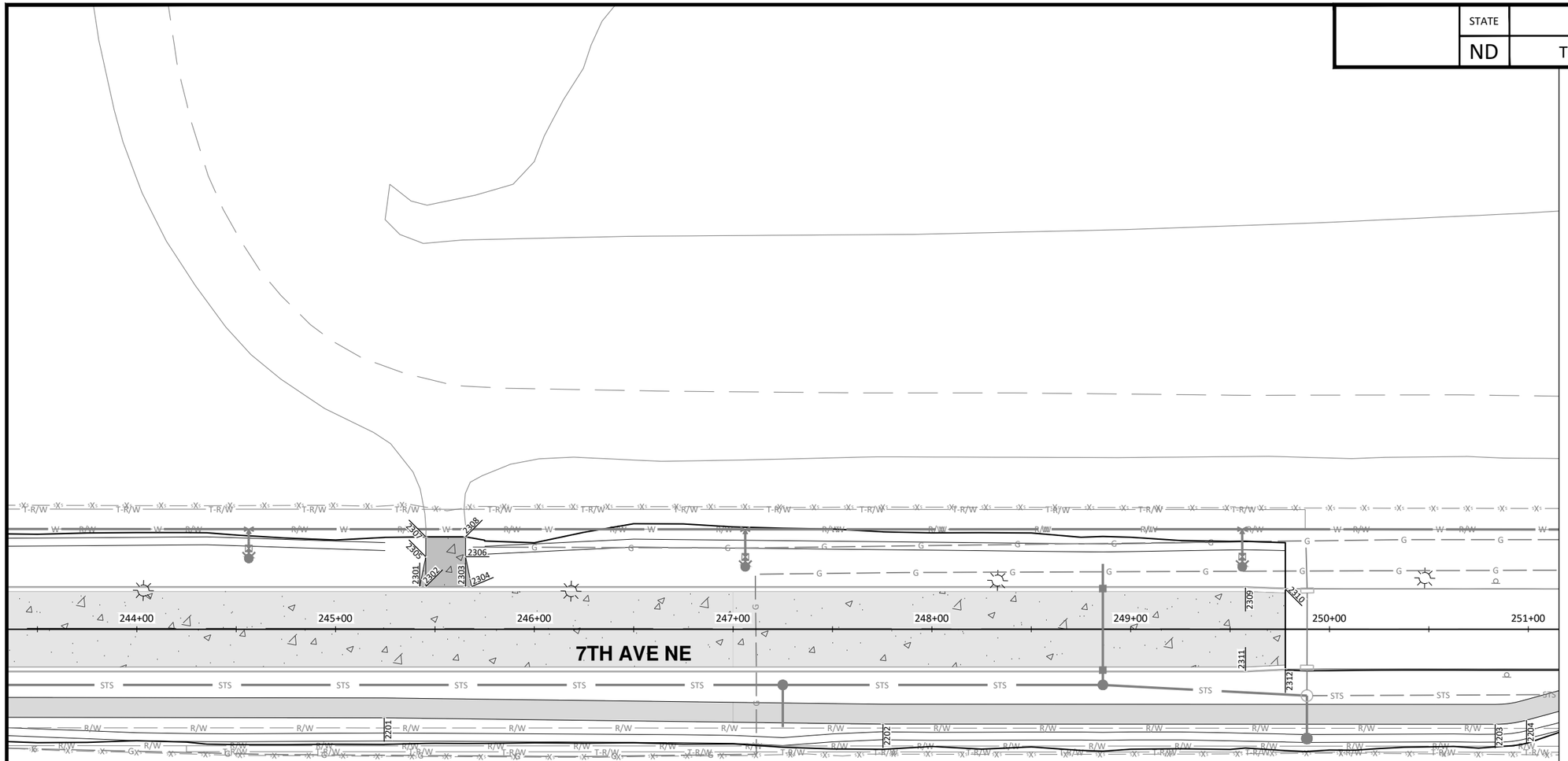
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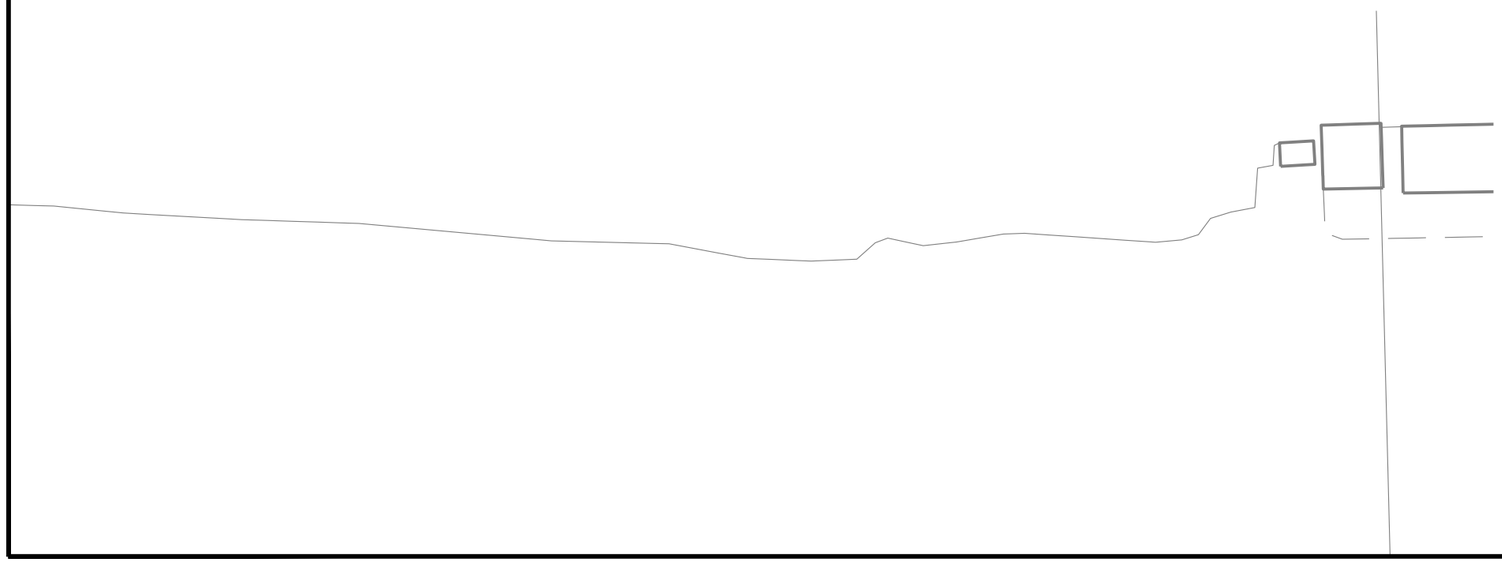
General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

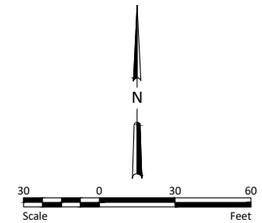
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	11





Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
2201	SW-PI	464781.9214	2876498.3060	245+24.46	44.56
2202	SW-PI	464784.9900	2876749.2339	247+75.38	47.70
2203	SW-PC	464792.5065	2877057.1062	250+83.35	47.81
2204	SW-PT	464795.0105	2877072.8542	250+99.15	45.70
2301	DW-PI	464848.4043	2876514.5424	245+42.33	21.50
2302	DW-PI	464848.4799	2876517.5852	245+45.38	21.50
2303	DW-PI	464848.9751	2876537.5813	245+65.38	21.50
2304	DW-PI	464849.0498	2876540.6083	245+68.41	21.50
2305	DW-PI	464863.4770	2876517.2138	245+45.38	36.50
2306	DW-PI	464863.9722	2876537.2100	245+65.38	36.50
2307	DW-PI	464873.4740	2876516.9663	245+45.38	46.50
2308	DW-PI	464873.9691	2876536.9624	245+65.38	46.50
2309	FL-PI	464858.1882	2876929.8512	249+57.76	21.00
2310	FL-PI	464857.9354	2876949.8783	249+77.77	20.25
2311	FL-PI	464816.1999	2876930.8535	249+57.72	21.00
2312	FL-PI	464817.6963	2876950.8747	249+77.77	20.00



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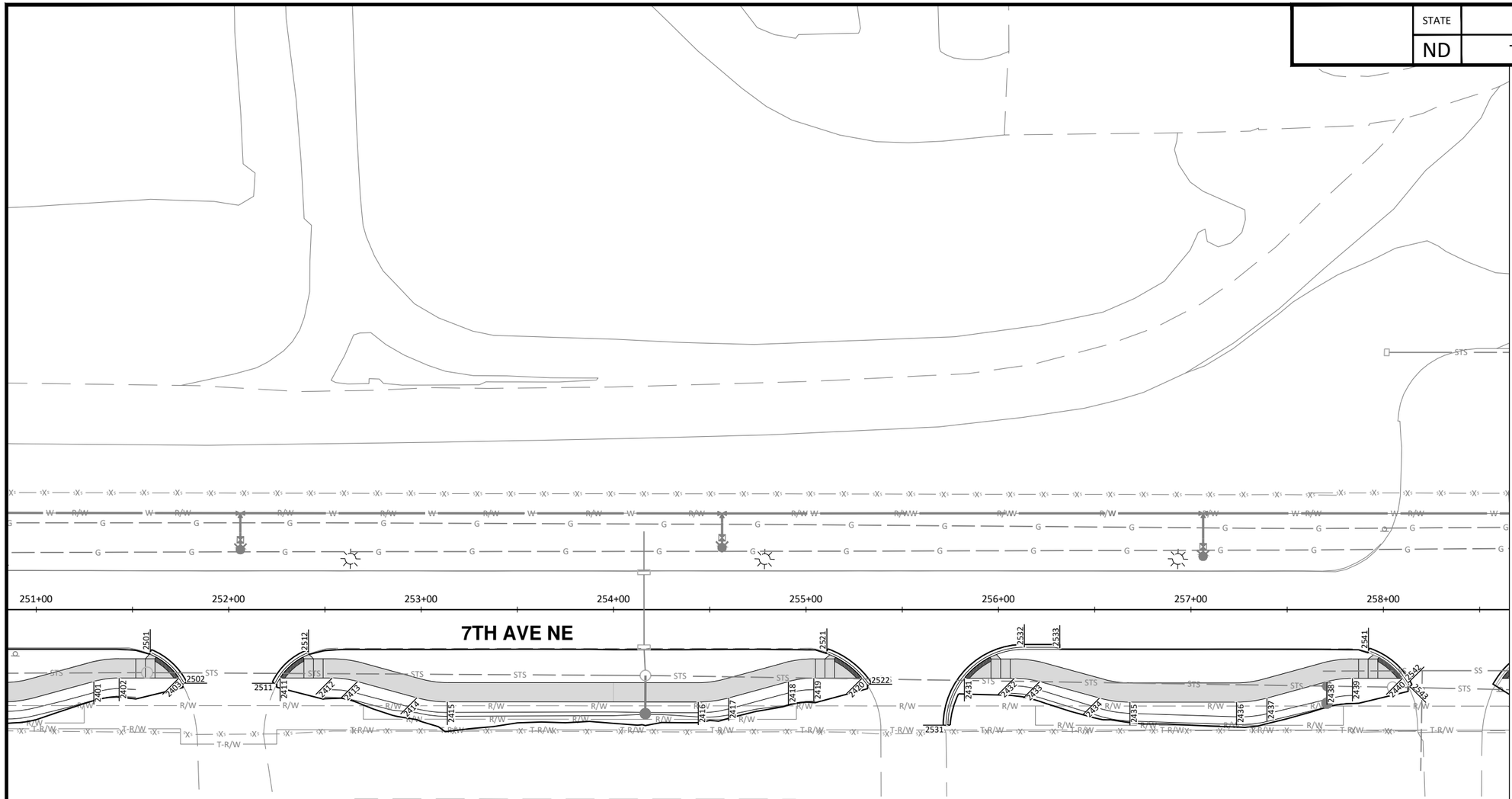
8/13/2025

General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	12



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
2401	SW-PC	464804.1750	2877103.4576	251+29.97	37.29
2402	SW-PT	464806.2615	2877116.5736	251+43.14	35.53
2403	SW-PI	464807.0221	2877147.5396	251+74.11	35.54
2411	SW-PI	464808.3144	2877200.1548	252+26.74	35.55
2412	SW-PC	464808.9782	2877227.1795	252+53.78	35.56
2413	SW-PT	464807.5346	2877240.3963	252+66.95	37.33
2414	SW-PC	464799.8596	2877271.4706	252+97.83	45.77
2415	SW-PT	464798.1270	2877287.3220	253+13.63	47.89
2416	SW-PC	464801.3096	2877417.6786	254+44.03	47.94
2417	SW-PT	464803.8136	2877433.4266	254+59.83	45.82
2418	SW-PC	464813.0360	2877464.2233	254+90.85	37.37
2419	SW-PT	464815.1225	2877477.3392	255+04.01	35.61
2420	SW-PI	464815.7393	2877502.4518	255+29.13	35.61
2431	SW-PI	464817.0421	2877555.5991	255+82.29	35.62
2432	SW-PC	464817.6814	2877581.5350	256+08.24	35.63
2433	SW-PT	464816.2379	2877594.7562	256+21.42	37.40
2434	SW-PC	464808.5157	2877626.0216	256+52.48	45.89
2435	SW-PT	464806.7831	2877641.8730	256+68.29	48.02

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
2436	SW-PC	464808.1351	2877697.2466	257+23.68	48.03
2437	SW-PT	464810.6391	2877712.9945	257+39.48	45.92
2438	SW-PC	464819.9225	2877743.9950	257+70.70	37.41
2439	SW-PT	464822.0089	2877757.1067	257+83.86	35.65
2440	SW-PT	464822.6507	2877783.1470	258+09.91	35.65
2501	FL-PI	464820.0386	2877132.3696	251+59.27	22.15
2502	FL-PI	464804.4166	2877150.3338	251+76.84	38.21
2511	FL-PI	464805.5371	2877197.5655	252+24.09	38.26
2512	FL-PI	464821.9267	2877214.5336	252+41.45	22.30
2521	FL-PI	464829.1623	2877483.7988	255+10.82	21.73
2522	FL-PI	464812.7162	2877506.1494	255+32.75	38.72
2531	PAV-PI	464792.4645	2877546.7000	255+72.79	59.97
2532	PAV-PT	464833.8576	2877586.3256	256+13.43	19.57
2533	FL-PI	464833.7988	2877604.7625	256+31.86	20.09
2541	FL-PI	464836.4167	2877765.1392	257+92.25	21.44
2542	FL-PT	464820.2352	2877785.9890	258+12.69	38.13
2543	FL-PI	464818.6393	2877786.9478	258+13.61	39.75

CITY OF WEST FARGO

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ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

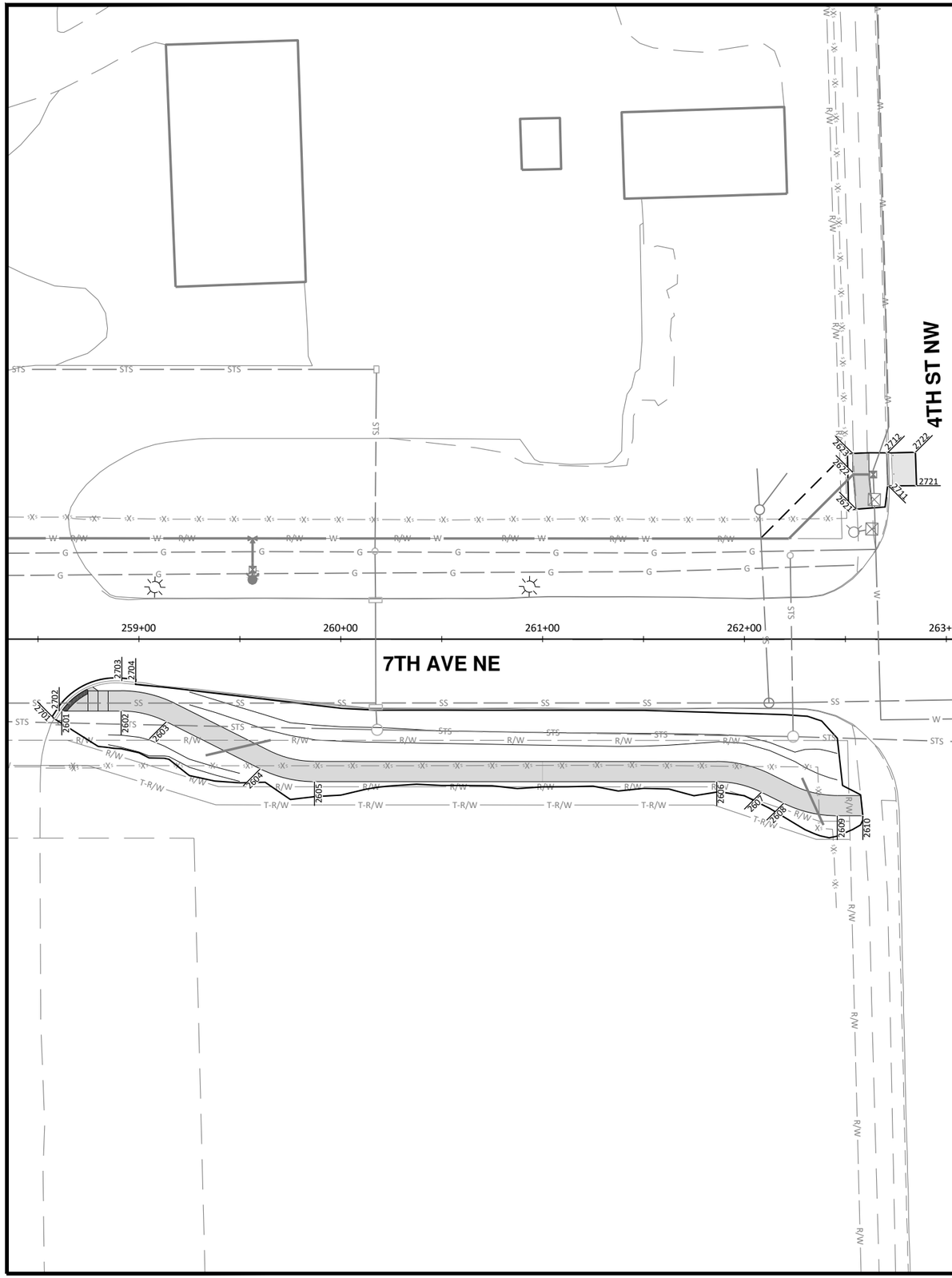
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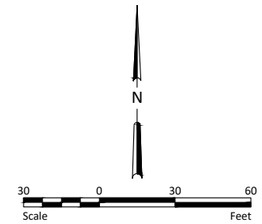
General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	13





Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
2601	SW-PI	464823.9335	2877835.0501	258+61.83	35.65
2602	SW-PC	464824.6610	2877864.4333	258+91.22	35.65
2603	SW-PT	464819.9287	2877886.9366	259+13.60	40.94
2604	SW-PC	464797.7940	2877934.0385	259+60.14	64.23
2605	SW-PT	464792.1147	2877961.0216	259+86.98	70.58
2606	SW-PC	464796.9785	2878160.2400	261+86.25	70.65
2607	SW-PT	464792.3569	2878182.4877	262+08.38	75.82
2608	SW-PC	464787.1842	2878193.6471	262+19.41	81.27
2609	SW-PT	464781.6383	2878220.3443	262+45.96	87.47
2610	SW-PI	464781.9473	2878232.9979	262+58.62	87.48
2621	SW-PI	464933.7337	2878225.9694	262+55.35	64.44
2622	SW-PI	464951.8250	2878223.8768	262+53.70	82.57
2623	SW-PI	464961.2715	2878223.5030	262+53.56	92.03
2701	FL-PI	464820.0676	2877831.4439	258+58.13	39.43
2702	FL-PC	464823.7458	2877833.7253	258+60.50	35.81
2703	FL-PT	464839.5215	2877864.4350	258+91.59	20.80
2704	FL-PI	464839.0671	2877871.2556	258+98.40	21.42
2711	FL-PI	464945.5390	2878241.7079	262+71.37	75.85
2712	FL-PI	464961.8878	2878240.7820	262+70.85	92.22
2721	PAV-PI	464946.0546	2878255.5315	262+85.21	76.02
2722	PAV-PI	464962.5600	2878254.5986	262+84.68	92.55

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8/13/2025

General Layouts - 7th Ave NE

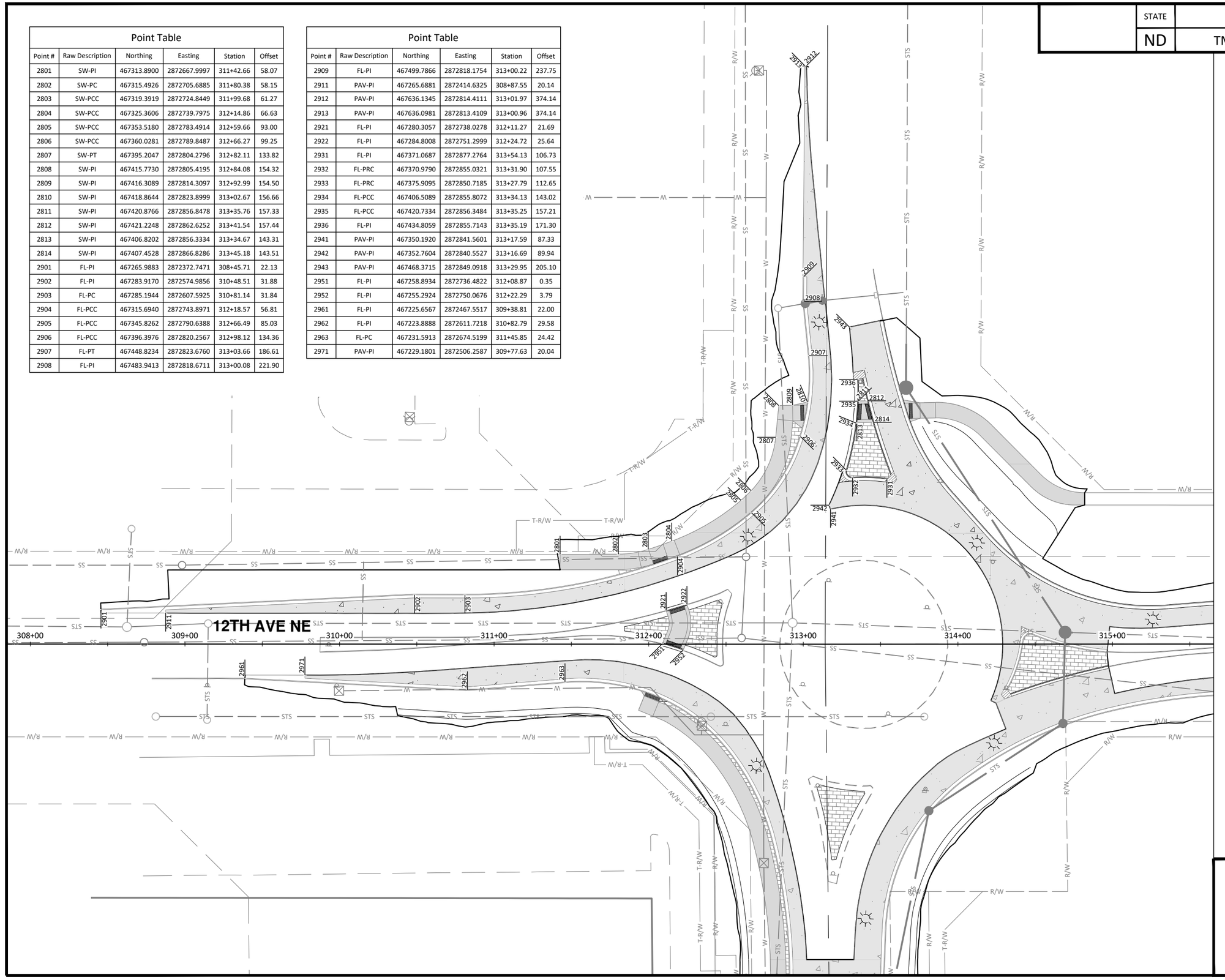
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

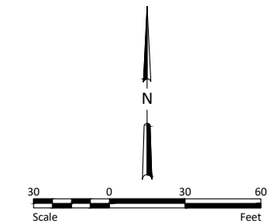
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	14

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
2801	SW-PI	467313.8900	2872667.9997	311+42.66	58.07
2802	SW-PC	467315.4926	2872705.6885	311+80.38	58.15
2803	SW-PCC	467319.3919	2872724.8449	311+99.68	61.27
2804	SW-PCC	467325.3606	2872739.7975	312+14.86	66.63
2805	SW-PCC	467353.5180	2872783.4914	312+59.66	93.00
2806	SW-PCC	467360.0281	2872789.8487	312+66.27	99.25
2807	SW-PT	467395.2047	2872804.2796	312+82.11	133.82
2808	SW-PI	467415.7730	2872805.4195	312+84.08	154.32
2809	SW-PI	467416.3089	2872814.3097	312+92.99	154.50
2810	SW-PI	467418.8644	2872823.8999	313+02.67	156.66
2811	SW-PI	467420.8766	2872856.8478	313+35.76	157.33
2812	SW-PI	467421.2248	2872862.6252	313+41.54	157.44
2813	SW-PI	467406.8202	2872856.3334	313+34.67	143.31
2814	SW-PI	467407.4528	2872866.8286	313+45.18	143.51
2901	FL-PI	467265.9883	2872372.7471	308+45.71	22.13
2902	FL-PI	467283.9170	2872574.9856	310+48.51	31.88
2903	FL-PC	467285.1944	2872607.5925	310+81.14	31.84
2904	FL-PCC	467315.6940	2872743.8971	312+18.57	56.81
2905	FL-PCC	467345.8262	2872790.6388	312+66.49	85.03
2906	FL-PCC	467396.3976	2872820.2567	312+98.12	134.36
2907	FL-PT	467448.8234	2872823.6760	313+03.66	186.61
2908	FL-PI	467483.9413	2872818.6711	313+00.08	221.90

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
2909	FL-PI	467499.7866	2872818.1754	313+00.22	237.75
2911	PAV-PI	467265.6881	2872414.6325	308+87.55	20.14
2912	PAV-PI	467636.1345	2872814.4111	313+01.97	374.14
2913	PAV-PI	467636.0981	2872813.4109	313+00.96	374.14
2921	FL-PI	467280.3057	2872738.0278	312+11.27	21.69
2922	FL-PI	467284.8008	2872751.2999	312+24.72	25.64
2931	FL-PI	467371.0687	2872877.2764	313+54.13	106.73
2932	FL-PRC	467370.9790	2872855.0321	313+31.90	107.55
2933	FL-PRC	467375.9095	2872850.7185	313+27.79	112.65
2934	FL-PCC	467406.5089	2872855.8072	313+34.13	143.02
2935	FL-PCC	467420.7334	2872856.3484	313+35.25	157.21
2936	FL-PI	467434.8059	2872855.7143	313+35.19	171.30
2941	PAV-PI	467350.1920	2872841.5601	313+17.59	87.33
2942	PAV-PI	467352.7604	2872840.5527	313+16.69	89.94
2943	PAV-PI	467468.3715	2872849.0918	313+29.95	205.10
2951	FL-PI	467258.8934	2872736.4822	312+08.87	0.35
2952	FL-PI	467255.2924	2872750.0676	312+22.29	3.79
2961	FL-PI	467225.6567	2872467.5517	309+38.81	22.00
2962	FL-PI	467223.8888	2872611.7218	310+82.79	29.58
2963	FL-PC	467231.5913	2872674.5199	311+45.85	24.42
2971	PAV-PI	467229.1801	2872506.2587	309+77.63	20.04





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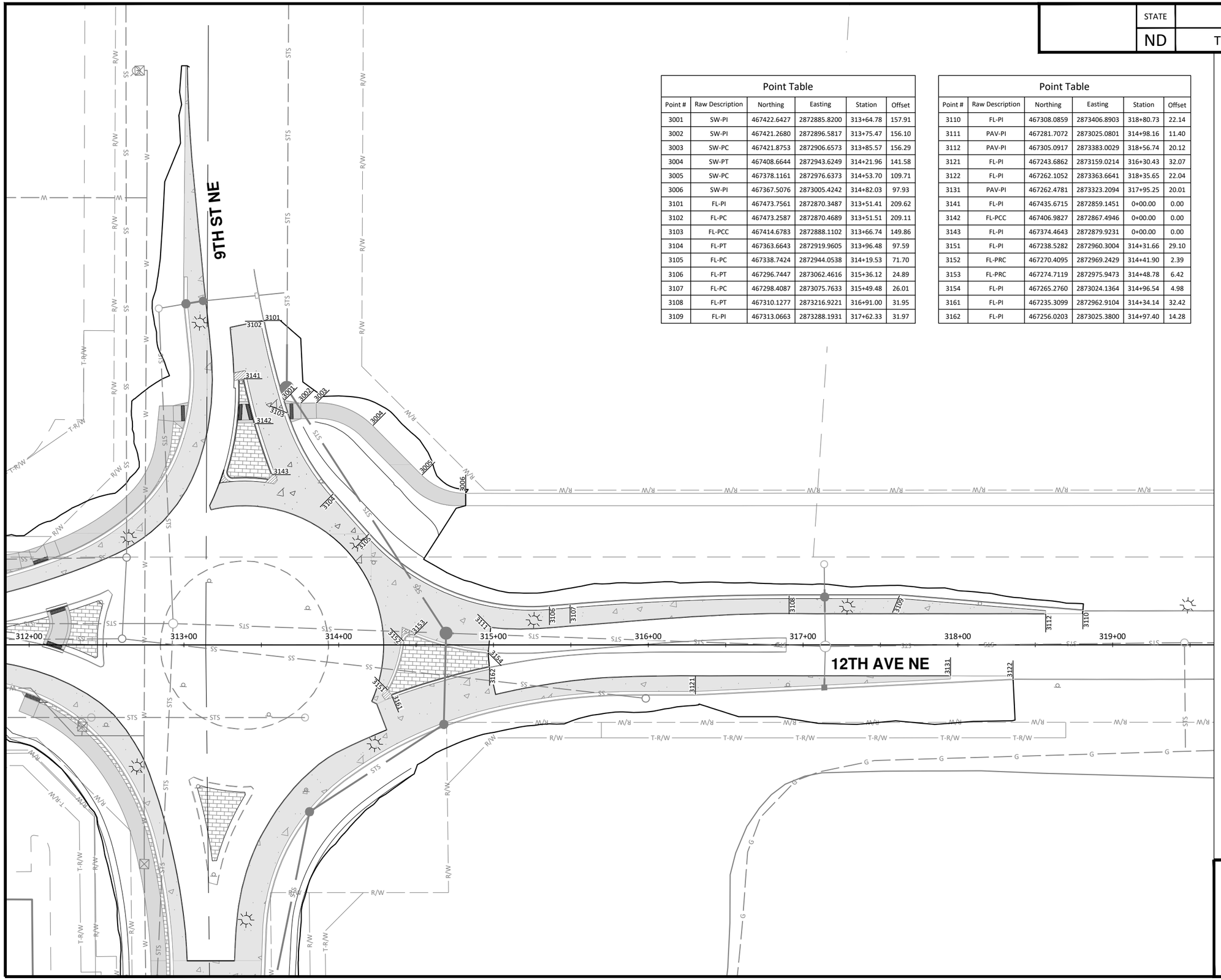
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General Layouts - 12th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	ND	TMA-SU-FXP-8-992(045)	80	15

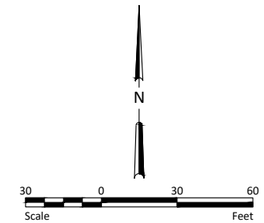


Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
3001	SW-PI	467422.6427	2872885.8200	313+64.78	157.91
3002	SW-PI	467421.2680	2872896.5817	313+75.47	156.10
3003	SW-PC	467421.8753	2872906.6573	313+85.57	156.29
3004	SW-PT	467408.6644	2872943.6249	314+21.96	141.58
3005	SW-PC	467378.1161	2872976.6373	314+53.70	109.71
3006	SW-PI	467367.5076	2873005.4242	314+82.03	97.93
3101	FL-PI	467473.7561	2872870.3487	313+51.41	209.62
3102	FL-PC	467473.2587	2872870.4689	313+51.51	209.11
3103	FL-PCC	467414.6783	2872888.1102	313+66.74	149.86
3104	FL-PT	467363.6643	2872919.9605	313+96.48	97.59
3105	FL-PC	467338.7424	2872944.0538	314+19.53	71.70
3106	FL-PT	467296.7447	2873062.4616	315+36.12	24.89
3107	FL-PC	467298.4087	2873075.7633	315+49.48	26.01
3108	FL-PT	467310.1277	2873216.9221	316+91.00	31.95
3109	FL-PI	467313.0663	2873288.1931	317+62.33	31.97

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
3110	FL-PI	467308.0859	2873406.8903	318+80.73	22.14
3111	PAV-PI	467281.7072	2873025.0801	314+98.16	11.40
3112	PAV-PI	467305.0917	2873383.0029	318+56.74	20.12
3121	FL-PI	467243.6862	2873159.0214	316+30.43	32.07
3122	FL-PI	467262.1052	2873363.6641	318+35.65	22.04
3131	PAV-PI	467262.4781	2873323.2094	317+95.25	20.01
3141	FL-PI	467435.6715	2872859.1451	0+00.00	0.00
3142	FL-PCC	467406.9827	2872867.4946	0+00.00	0.00
3143	FL-PI	467374.4643	2872879.9231	0+00.00	0.00
3151	FL-PI	467238.5282	2872960.3004	314+31.66	29.10
3152	FL-PRC	467270.4095	2872969.2429	314+41.90	2.39
3153	FL-PRC	467274.7119	2872975.9473	314+48.78	6.42
3154	FL-PI	467265.2760	2873024.1364	314+96.54	4.98
3161	FL-PI	467235.3099	2872962.9104	314+34.14	32.42
3162	FL-PI	467256.0203	2873025.3800	314+97.40	14.28



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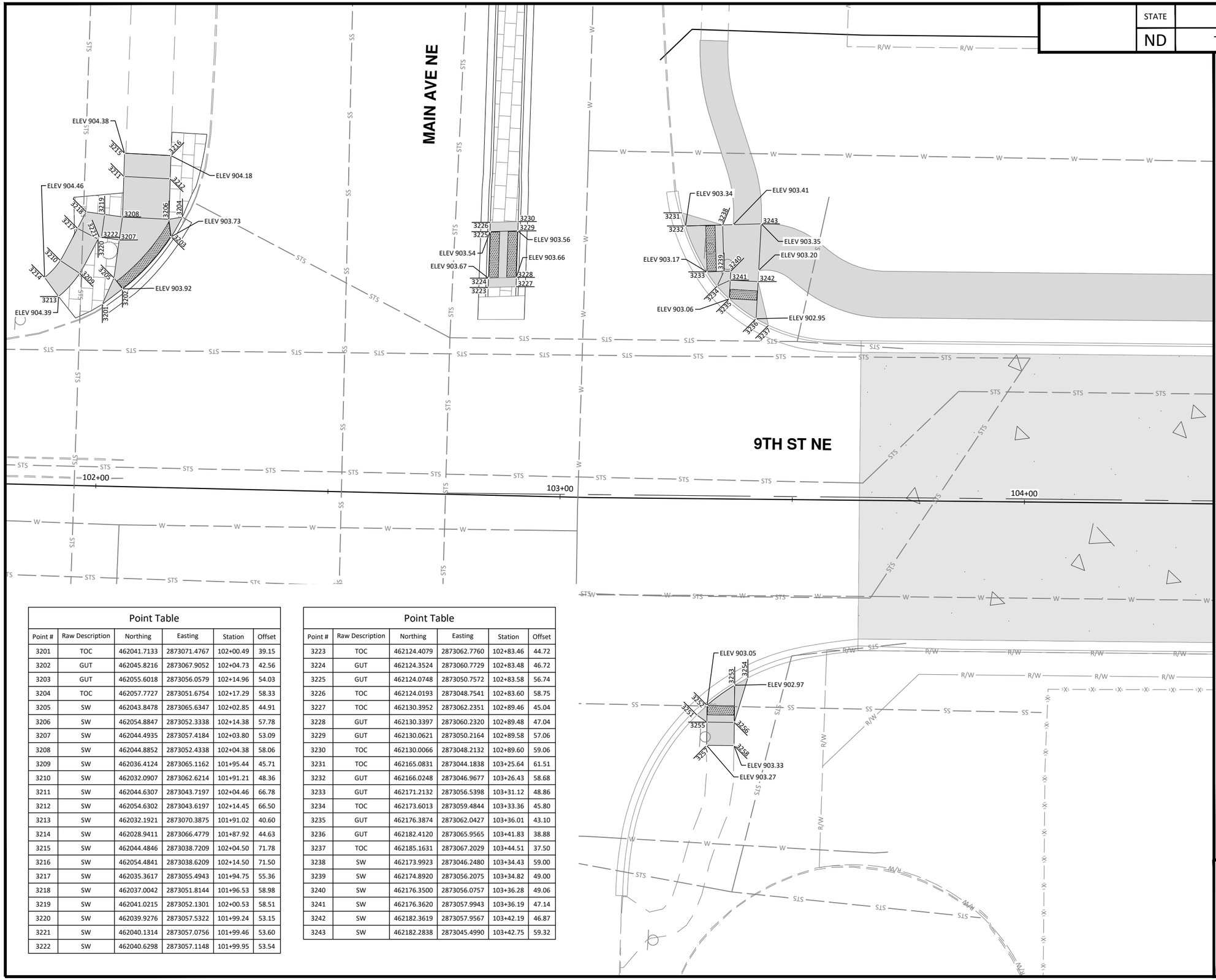
8/13/2025

General Layouts - 12th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	16



Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
3201	TOC	462041.7133	2873071.4767	102+00.49	39.15
3202	GUT	462045.8216	2873067.9052	102+04.73	42.56
3203	GUT	462055.6018	2873056.0579	102+14.96	54.03
3204	TOC	462057.7727	2873051.6754	102+17.29	58.33
3205	SW	462043.8478	2873065.6347	102+02.85	44.91
3206	SW	462054.8847	2873052.3338	102+14.38	57.78
3207	SW	462044.4935	2873057.4184	102+03.80	53.09
3208	SW	462044.8852	2873052.4338	102+04.38	58.06
3209	SW	462036.4124	2873065.1162	101+95.44	45.71
3210	SW	462032.0907	2873062.6214	101+91.21	48.36
3211	SW	462044.6307	2873043.7197	102+04.46	66.78
3212	SW	462054.6302	2873043.6197	102+14.45	66.50
3213	SW	462032.1921	2873070.3875	101+91.02	40.60
3214	SW	462028.9411	2873066.4779	101+87.92	44.63
3215	SW	462044.4846	2873038.7209	102+04.50	71.78
3216	SW	462054.4841	2873038.6209	102+14.50	71.50
3217	SW	462035.3617	2873055.4943	101+94.75	55.36
3218	SW	462037.0042	2873051.8144	101+96.53	58.98
3219	SW	462041.0215	2873052.1301	102+00.53	58.51
3220	SW	462039.9276	2873057.5322	101+99.24	53.15
3221	SW	462040.1314	2873057.0756	101+99.46	53.60
3222	SW	462040.6298	2873057.1148	101+99.95	53.54

Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
3223	TOC	462124.4079	2873062.7760	102+83.46	44.72
3224	GUT	462124.3524	2873060.7729	102+83.48	46.72
3225	GUT	462124.0748	2873050.7572	102+83.58	56.74
3226	TOC	462124.0193	2873048.7541	102+83.60	58.75
3227	TOC	462130.3952	2873062.2351	102+89.46	45.04
3228	GUT	462130.3397	2873060.2320	102+89.48	47.04
3229	GUT	462130.0621	2873050.2164	102+89.58	57.06
3230	TOC	462130.0066	2873048.2132	102+89.60	59.06
3231	TOC	462165.0831	2873044.1838	103+25.64	61.51
3232	GUT	462166.0248	2873046.9677	103+26.43	58.68
3233	GUT	462171.2132	2873056.5398	103+31.12	48.86
3234	TOC	462173.6013	2873059.4844	103+33.36	45.80
3235	GUT	462176.3874	2873062.0427	103+36.01	43.10
3236	GUT	462182.4120	2873065.9565	103+41.83	38.88
3237	TOC	462185.1631	2873067.2029	103+44.51	37.50
3238	SW	462173.9923	2873046.2480	103+34.43	59.00
3239	SW	462174.8920	2873056.2075	103+34.82	49.00
3240	SW	462176.3500	2873056.0757	103+36.28	49.06
3241	SW	462176.3620	2873057.9943	103+36.19	47.14
3242	SW	462182.3619	2873057.9567	103+42.19	46.87
3243	SW	462182.2838	2873045.4990	103+42.75	59.32

10 0 10 20
Scale Feet

Notes:
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CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

General Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

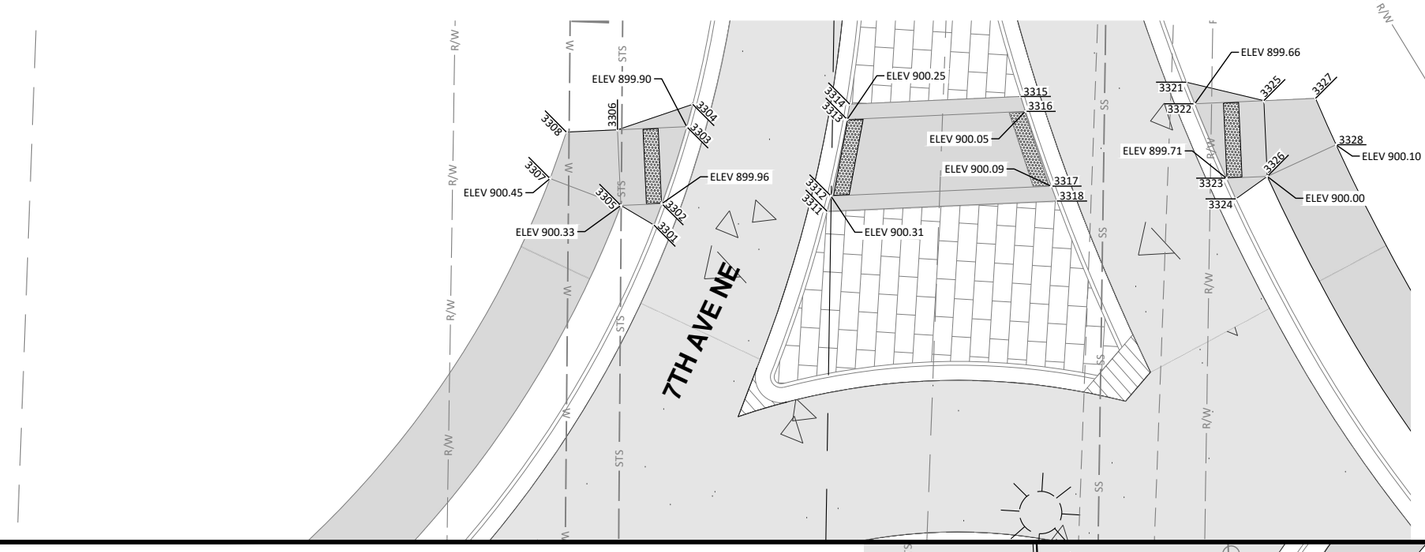
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	17

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3301	TOC	464711.4644	2872844.7537	128+78.89	130.33
3302	GUT	464712.3492	2872841.8697	128+79.92	133.16
3303	GUT	464714.9893	2872831.5303	128+83.08	143.35
3304	TOC	464715.6018	2872828.5421	128+83.85	146.30
3305	SW	464706.9493	2872842.4456	128+74.50	132.86
3306	SW	464705.8888	2872832.5008	128+73.95	142.85

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3307	SW	464697.4025	2872839.4691	128+65.11	136.32
3308	SW	464699.1798	2872833.2163	128+67.21	142.48
3311	TOC	464734.1809	2872841.5529	129+01.74	132.36
3312	GUT	464734.5576	2872839.5002	129+02.22	134.39
3313	GUT	464736.0674	2872829.2825	129+04.25	144.52
3314	TOC	464736.2964	2872827.2467	129+04.58	146.54

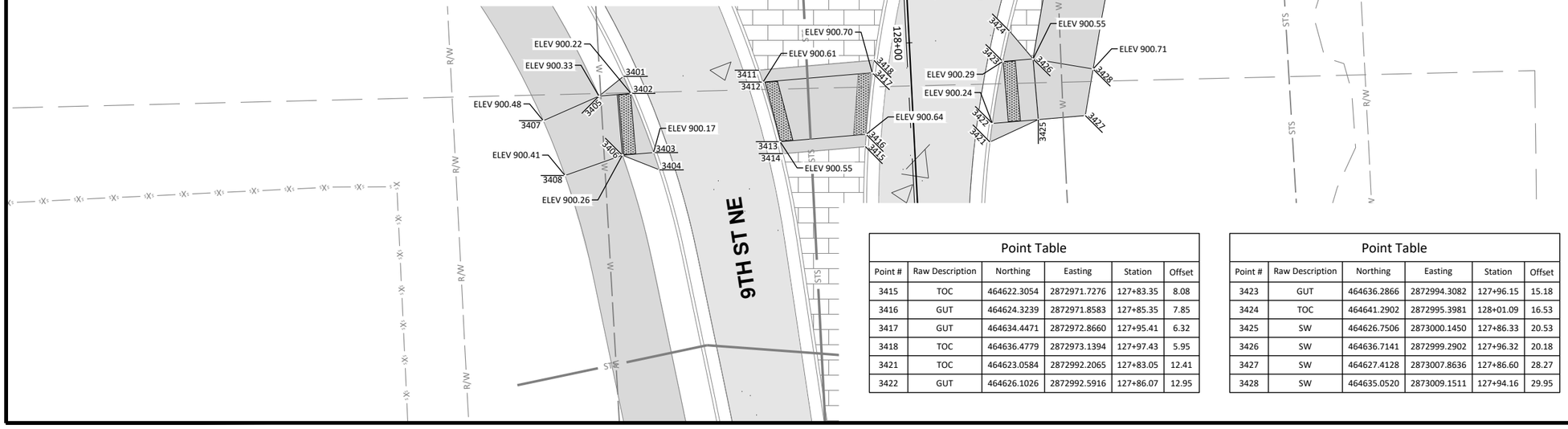
Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3315	TOC	464758.7237	2872824.8551	129+27.10	147.78
3316	GUT	464759.4785	2872826.7859	129+27.76	145.81
3317	GUT	464763.4907	2872836.4147	129+31.27	135.99
3318	TOC	464764.3419	2872838.3364	129+32.02	134.03
3321	TOC	464780.4528	2872821.6398	129+48.97	149.88
3322	GUT	464781.7458	2872824.4113	129+50.12	147.04



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3323	GUT	464786.5147	2872833.9605	129+54.39	137.26
3324	TOC	464787.9239	2872836.6044	129+55.66	134.55
3325	SW	464790.8113	2872823.4445	129+59.22	147.54
3326	SW	464791.8718	2872833.3892	129+59.77	137.56
3327	SW	464797.6059	2872822.7199	129+71.44	147.84
3328	SW	464800.6868	2872828.6674	129+73.99	141.65

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3401	TOC	464633.8435	2872931.9792	127+96.90	47.19
3402	GUT	464631.0449	2872933.2087	127+94.05	46.10
3403	GUT	464621.3287	2872936.9442	127+84.15	42.87
3404	TOC	464618.5002	2872937.8826	127+81.28	42.08
3405	SW	464630.5942	2872927.9543	127+93.86	51.37
3406	SW	464620.8876	2872931.8031	127+83.97	48.03

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3407	SW	464626.5604	2872918.8039	127+90.30	60.72
3408	SW	464617.5547	2872922.3748	127+81.13	57.61
3411	TOC	464634.8592	2872954.2704	127+96.78	24.87
3412	GUT	464632.9069	2872954.9120	127+94.79	24.33
3413	GUT	464623.1120	2872957.7319	127+84.87	22.02
3414	TOC	464621.1465	2872958.2195	127+82.88	21.63



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3415	TOC	464622.3054	2872971.7276	127+83.35	8.08
3416	GUT	464624.3239	2872971.8583	127+85.35	7.85
3417	GUT	464634.4471	2872972.8660	127+95.41	6.32
3418	TOC	464636.4779	2872973.1394	127+97.43	5.95
3421	TOC	464623.0584	2872992.2065	127+83.05	12.41
3422	GUT	464626.1026	2872992.5916	127+86.07	12.95

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3423	GUT	464636.2866	2872994.3082	127+96.15	15.18
3424	TOC	464641.2902	2872995.3981	128+01.09	16.53
3425	SW	464626.7506	2873000.1450	127+86.33	20.53
3426	SW	464636.7141	2872999.2902	127+96.32	20.18
3427	SW	464627.4128	2873007.8636	127+86.60	28.27
3428	SW	464635.0520	2873009.1511	127+94.16	29.95

Scale: 10 0 10 20 Feet

Notes:
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CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

General Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	18

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3501	TOC	465530.9535	2872884.4695	136+96.56	22.11
3502	GUT	465535.9435	2872883.0395	137+01.66	23.10
3505	SW	465530.8321	2872883.0888	136+96.56	23.50
3506	SW	465529.9565	2872873.1272	136+96.56	33.50
3507	SW	465525.8513	2872883.5266	136+91.56	23.50
3508	SW	465524.9757	2872873.5651	136+91.56	33.50
3512	GUT	465640.3385	2872866.1276	138+06.00	33.50

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3513	GUT	465661.6530	2872875.2003	138+26.81	23.32
3514	TOC	465666.7484	2872875.9951	138+31.86	22.26
3515	SW	465666.1573	2872864.7681	138+31.86	33.50
3516	SW	465666.6831	2872874.7543	138+31.86	23.50
3517	SW	465671.1503	2872864.5052	138+36.86	33.50
3518	SW	465671.6762	2872874.4914	138+36.86	23.50

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3601	TOC	466337.1844	2872847.0537	145+01.94	22.27
3602	GUT	466342.2630	2872845.9565	145+07.03	23.36
3603	GUT	466363.7761	2872835.0476	145+28.57	34.20
3605	SW	466337.1541	2872845.6466	145+01.92	23.68
3606	SW	466336.9299	2872835.6496	145+01.73	33.68
3607	SW	466332.1554	2872845.7593	144+96.92	23.58
3608	SW	466331.9312	2872835.7618	144+96.73	33.58

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3612	GUT	466445.2174	2872833.2207	146+10.02	35.77
3613	GUT	466461.6827	2872843.2768	146+26.45	25.66
3614	TOC	466464.5063	2872844.3189	146+29.27	24.61
3615	SW	466466.6275	2872832.7404	146+31.43	36.18
3616	SW	466466.8517	2872842.7379	146+31.62	26.18
3617	SW	466471.6262	2872832.6283	146+36.43	36.28
3618	SW	466471.8505	2872842.6258	146+36.62	26.28

9TH AVE NE

9TH ST NE

11TH AVE NE

9TH ST NE

ELEV 899.91
ELEV 900.18
ELEV 900.03
ELEV 899.70
ELEV 899.66
ELEV 899.86
ELEV 899.71
ELEV 899.35
ELEV 900.62
ELEV 900.47
ELEV 900.23
ELEV 900.10
ELEV 900.37
ELEV 900.69
ELEV 900.29
ELEV 900.54

137+00
138+00
145+00
146+00
147+00

10 0 10 20
Scale Feet

Notes:
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CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

General Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

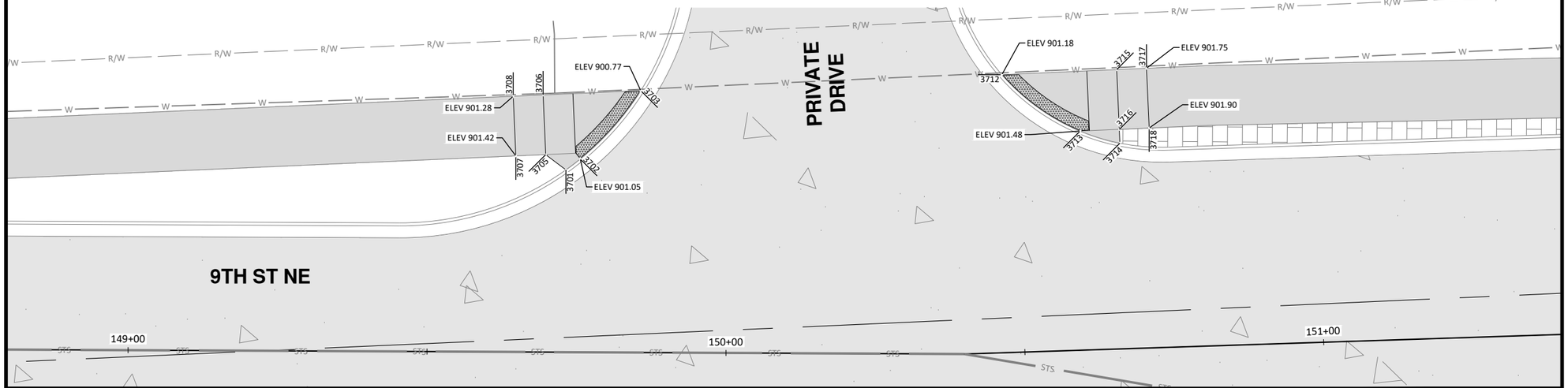
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STATE		PROJECT NO.	SECTION NO.	SHEET NO.
ND		TMA-SU-FXP-8-992(045)	80	19

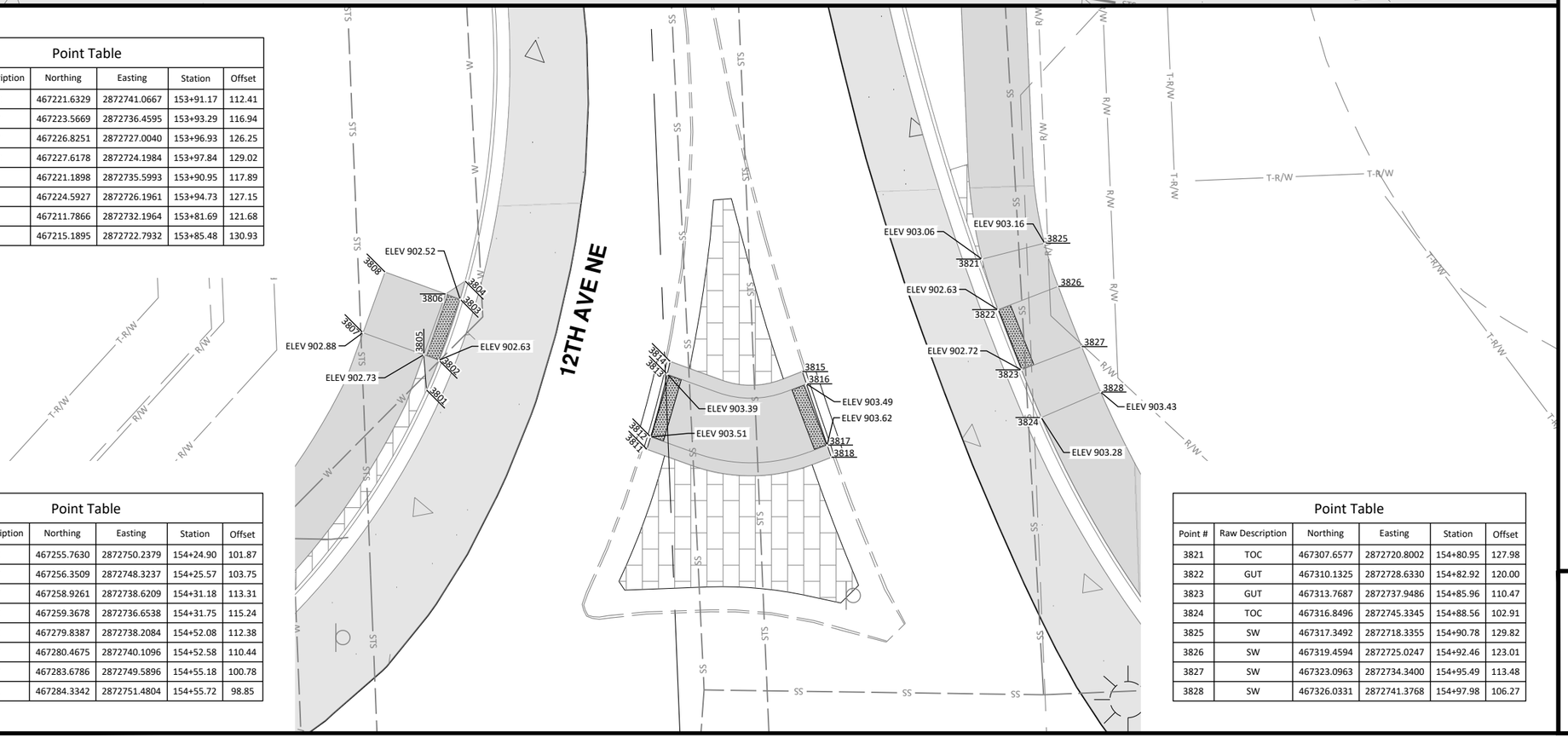
Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3701	TOC	466808.3029	2872837.3444	149+73.09	30.50
3702	GUT	466810.6764	2872835.4999	149+75.47	32.34
3703	GUT	466820.7172	2872823.9797	149+85.55	43.83
3705	SW	466804.9012	2872834.8158	149+69.70	33.04
3706	SW	466804.3823	2872824.8282	149+69.21	43.03

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3707	SW	466799.9079	2872835.0752	149+64.70	32.80
3708	SW	466799.3890	2872825.0876	149+64.22	42.79
3712	GUT	466881.0821	2872820.8436	150+47.67	46.51
3713	GUT	466894.2599	2872830.1736	150+60.46	36.66
3714	TOC	466900.9218	2872832.1516	150+67.03	34.41

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3715	SW	466900.2824	2872819.8461	150+66.89	46.73
3716	SW	466900.8013	2872829.8337	150+67.01	36.73
3717	SW	466905.2750	2872819.5736	150+71.89	46.80
3718	SW	466905.7946	2872829.5743	150+72.00	36.79



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3801	TOC	467221.6329	2872741.0667	153+91.17	112.41
3802	GUT	467223.5669	2872736.4595	153+93.29	116.94
3803	GUT	467226.8251	2872727.0040	153+96.93	126.25
3804	TOC	467227.6178	2872724.1984	153+97.84	129.02
3805	SW	467221.1898	2872735.5993	153+90.95	117.89
3806	SW	467224.5927	2872726.1961	153+94.73	127.15
3807	SW	467211.7866	2872732.1964	153+81.69	121.68
3808	SW	467215.1895	2872722.7932	153+85.48	130.93



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3811	TOC	467255.7630	2872750.2379	154+24.90	101.87
3812	GUT	467256.3509	2872748.3237	154+25.57	103.75
3813	GUT	467258.9261	2872738.6209	154+31.18	113.31
3814	TOC	467259.3678	2872736.6538	154+31.75	115.24
3815	TOC	467279.8387	2872738.2084	154+52.08	112.38
3816	GUT	467280.4675	2872740.1096	154+52.58	110.44
3817	GUT	467283.6786	2872749.5896	154+55.18	100.78
3818	TOC	467284.3342	2872751.4804	154+55.72	98.85

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3821	TOC	467307.6577	2872720.8002	154+80.95	127.98
3822	GUT	467310.1325	2872728.6330	154+82.92	120.00
3823	GUT	467313.7687	2872737.9486	154+85.96	110.47
3824	TOC	467316.8496	2872745.3345	154+88.56	102.91
3825	SW	467317.3492	2872718.3355	154+90.78	129.82
3826	SW	467319.4594	2872725.0247	154+92.46	123.01
3827	SW	467323.0963	2872734.3400	154+95.49	113.48
3828	SW	467326.0331	2872741.3768	154+97.98	106.27

Scale: 10 0 10 20 Feet

Notes:
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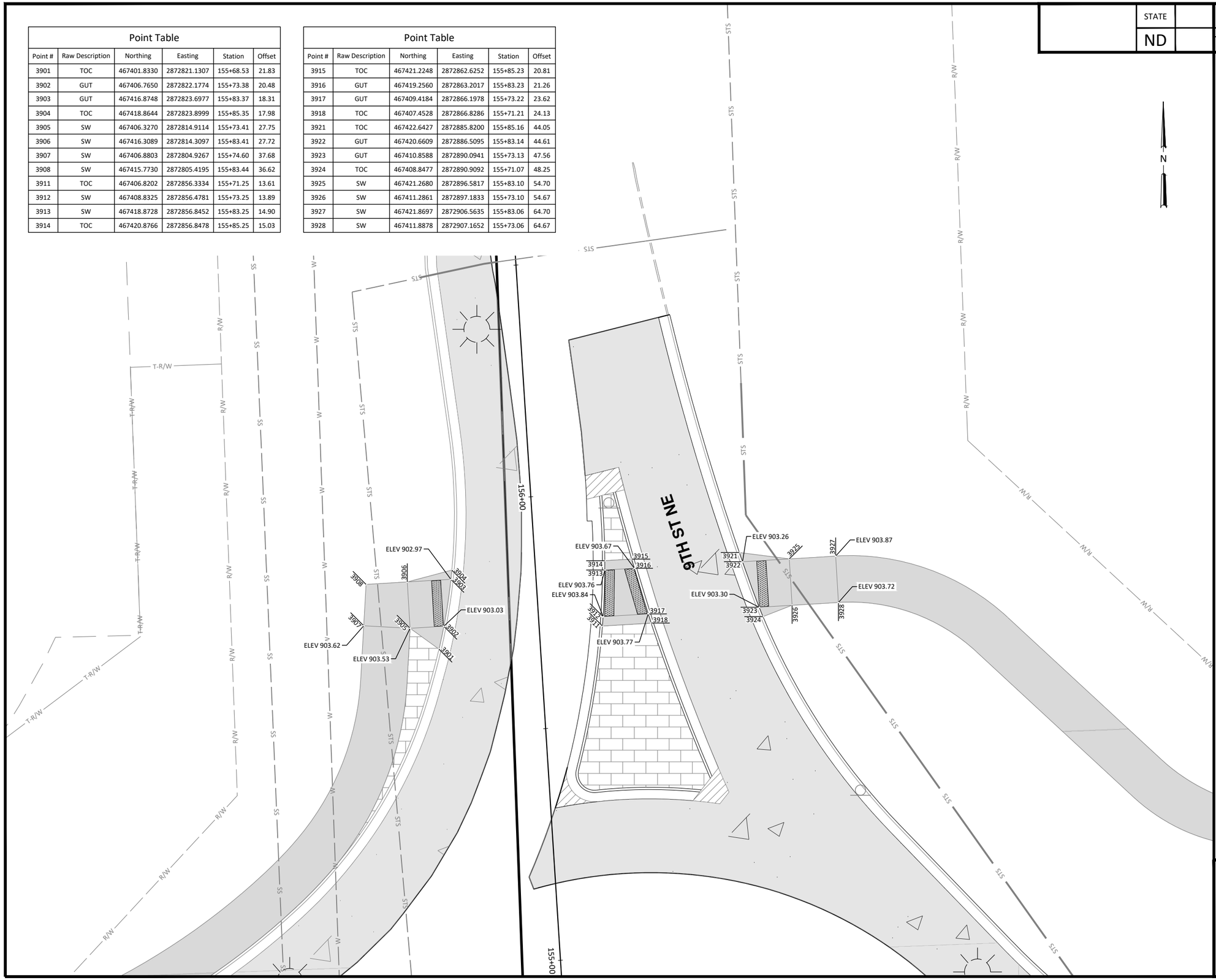
General Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3901	TOC	467401.8330	2872821.1307	155+68.53	21.83
3902	GUT	467406.7650	2872822.1774	155+73.38	20.48
3903	GUT	467416.8748	2872823.6977	155+83.37	18.31
3904	TOC	467418.8644	2872823.8999	155+85.35	17.98
3905	SW	467406.3270	2872814.9114	155+73.41	27.75
3906	SW	467416.3089	2872814.3097	155+83.41	27.72
3907	SW	467406.8803	2872804.9267	155+74.60	37.68
3908	SW	467415.7730	2872805.4195	155+83.44	36.62
3911	TOC	467406.8202	2872856.3334	155+71.25	13.61
3912	SW	467408.8325	2872856.4781	155+73.25	13.89
3913	SW	467418.8728	2872856.8452	155+83.25	14.90
3914	TOC	467420.8766	2872856.8478	155+85.25	15.03

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
3915	TOC	467421.2248	2872862.6252	155+85.23	20.81
3916	GUT	467419.2560	2872863.2017	155+83.23	21.26
3917	GUT	467409.4184	2872866.1978	155+73.22	23.62
3918	TOC	467407.4528	2872866.8286	155+71.21	24.13
3921	TOC	467422.6427	2872885.8200	155+85.16	44.05
3922	GUT	467420.6609	2872886.5095	155+83.14	44.61
3923	GUT	467410.8588	2872890.0941	155+73.13	47.56
3924	TOC	467408.8477	2872890.9092	155+71.07	48.25
3925	SW	467421.2680	2872896.5817	155+83.10	54.70
3926	SW	467411.2861	2872897.1833	155+73.10	54.67
3927	SW	467421.8697	2872906.5635	155+83.06	64.70
3928	SW	467411.8878	2872907.1652	155+73.06	64.67



STATE		PROJECT NO.	SECTION NO.	SHEET NO.
ND		TMA-SU-FXP-8-992(045)	80	20

10 0 10 20
Scale Feet

N

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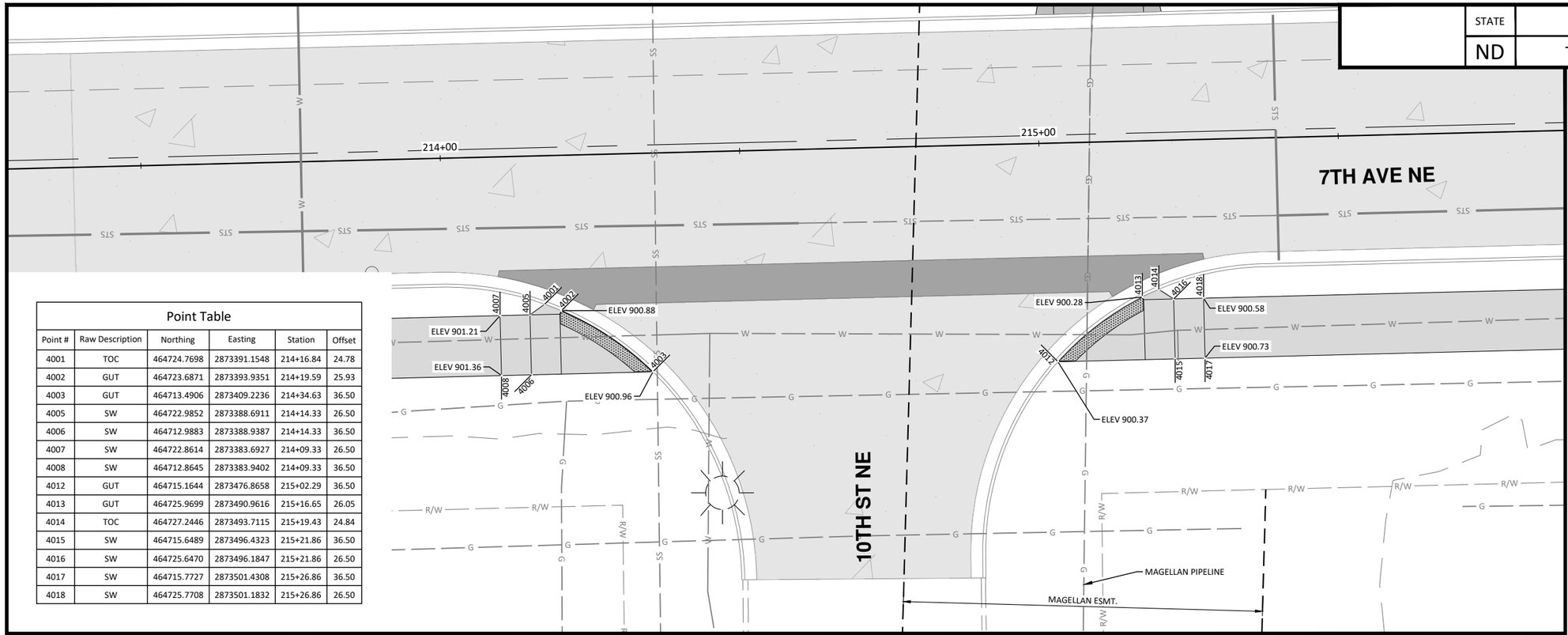
8/13/2025

General Layouts - 9th St NE

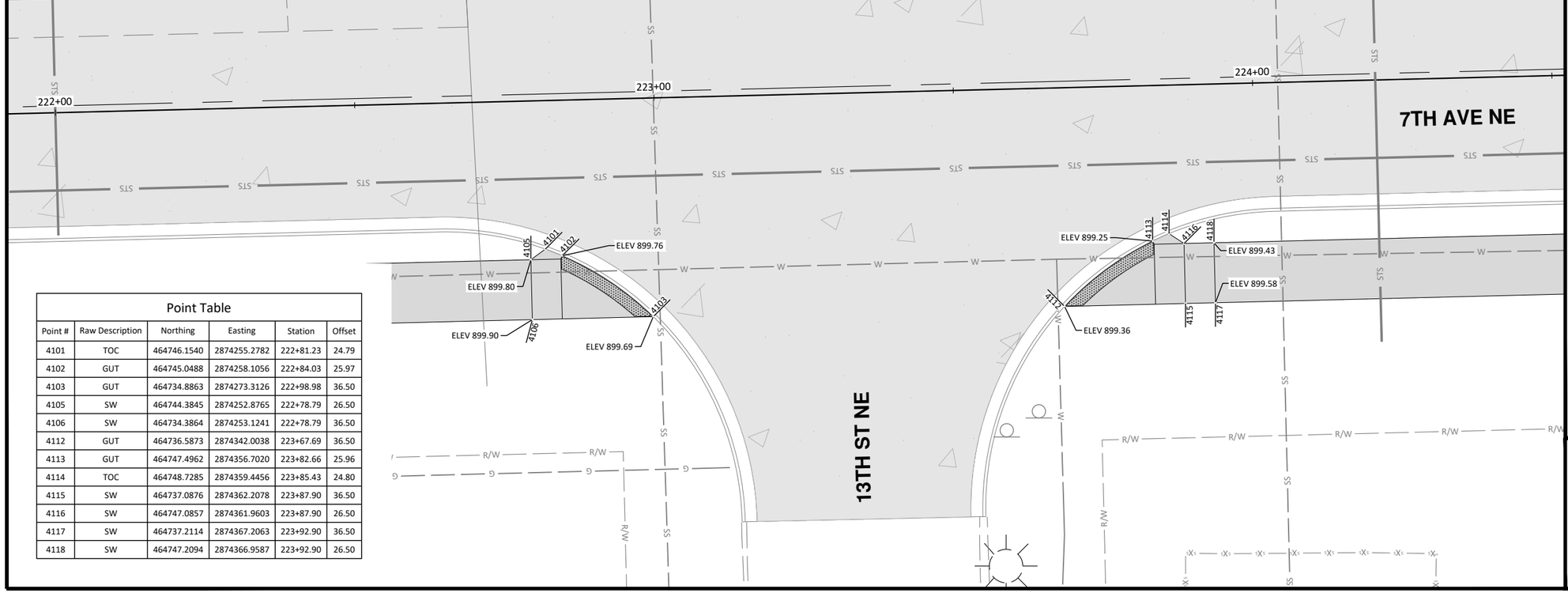
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\080 - 9th St NE Small Scale.dwg-Gen (6)-8/13/2025 2:44 PM-(jandresen)

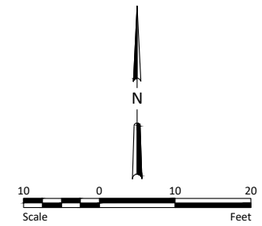
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	21



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
4001	TOC	464724.7698	2873391.1548	214+16.84	24.78
4002	GUT	464723.6871	2873393.9351	214+19.59	25.93
4003	GUT	464713.4906	2873409.2236	214+34.63	36.50
4005	SW	464722.9852	2873388.6911	214+14.33	26.50
4006	SW	464712.9883	2873388.9387	214+14.33	36.50
4007	SW	464722.8614	2873383.6927	214+09.33	26.50
4008	SW	464712.8645	2873383.9402	214+09.33	36.50
4012	GUT	464715.1644	2873476.8658	215+02.29	36.50
4013	GUT	464725.9699	2873490.9616	215+16.65	26.05
4014	TOC	464727.2446	2873493.7115	215+19.43	24.84
4015	SW	464715.6489	2873496.4323	215+21.86	36.50
4016	SW	464725.6470	2873496.1847	215+21.86	26.50
4017	SW	464715.7727	2873501.4308	215+26.86	36.50
4018	SW	464725.7708	2873501.1832	215+26.86	26.50



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
4101	TOC	464746.1540	2874255.2782	222+81.23	24.79
4102	GUT	464745.0488	2874258.1056	222+84.03	25.97
4103	GUT	464734.8863	2874273.3126	222+98.98	36.50
4105	SW	464744.3845	2874252.8765	222+78.79	26.50
4106	SW	464734.3864	2874253.1241	222+78.79	36.50
4112	GUT	464736.5873	2874342.0038	223+67.69	36.50
4113	GUT	464747.4962	2874356.7020	223+82.66	25.96
4114	TOC	464748.7285	2874359.4456	223+85.43	24.80
4115	SW	464737.0876	2874362.2078	223+87.90	36.50
4116	SW	464747.0857	2874361.9603	223+87.90	26.50
4117	SW	464737.2114	2874367.2063	223+92.90	36.50
4118	SW	464747.2094	2874366.9587	223+92.90	26.50



Notes:
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WARNING
HIGH-PRESSURE PIPELINE(S)
Excavation and/or Construction Prohibited
Without compliance with **State One-Call**, AND
Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.
A MAGELLAN REPRESENTATIVE MUST BE PRESENT DURING WORK AROUND PIPELINE(S)

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

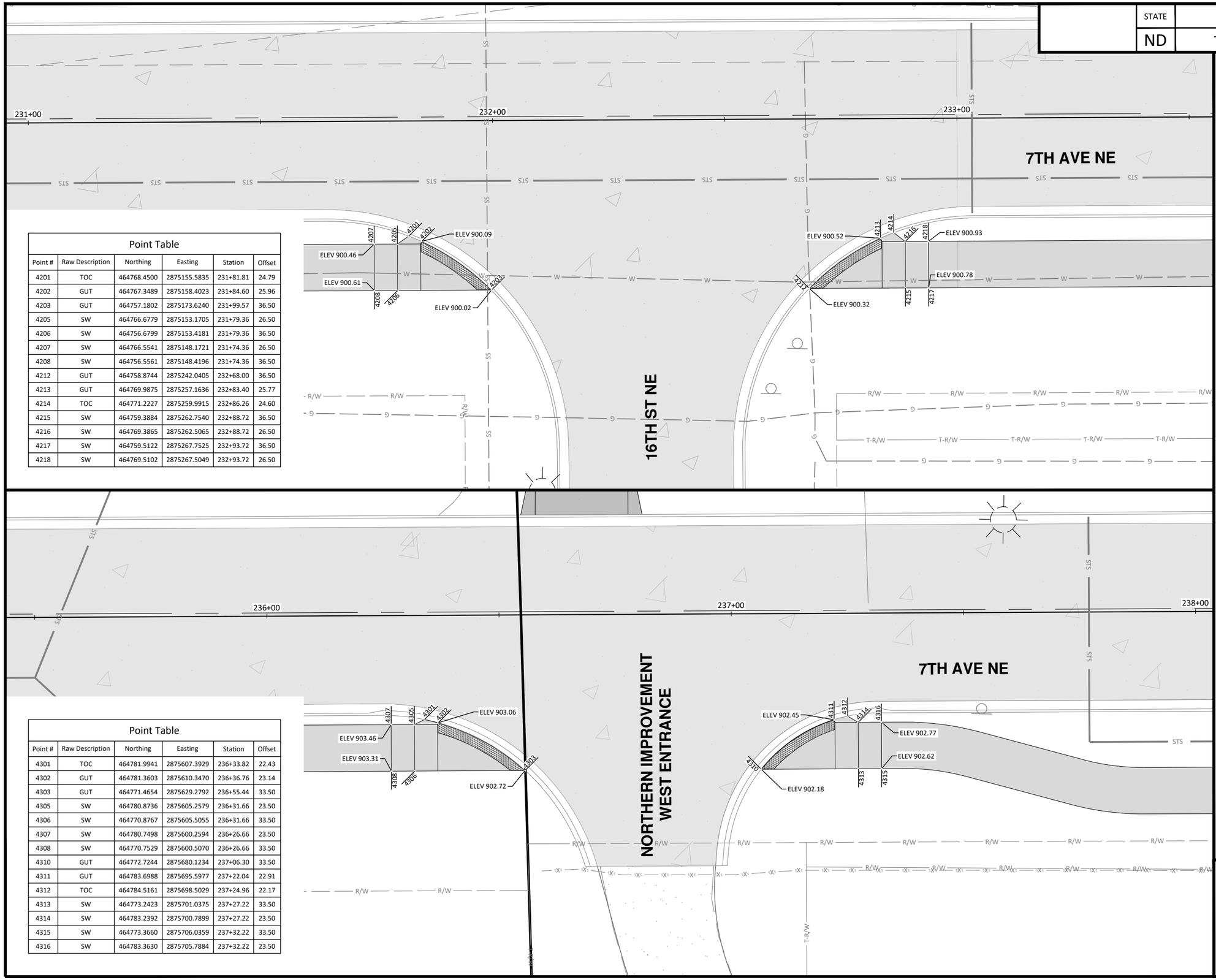
8/13/2025

General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

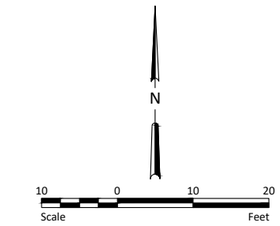
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	22



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
4201	TOC	464768.4500	2875155.5835	231+81.81	24.79
4202	GUT	464767.3489	2875158.4023	231+84.60	25.96
4203	GUT	464757.1802	2875173.6240	231+99.57	36.50
4205	SW	464766.6779	2875153.1705	231+79.36	26.50
4206	SW	464756.6799	2875153.4181	231+79.36	36.50
4207	SW	464766.5541	2875148.1721	231+74.36	26.50
4208	SW	464756.5561	2875148.4196	231+74.36	36.50
4212	GUT	464758.8744	2875242.0405	232+68.00	36.50
4213	GUT	464769.9875	2875257.1636	232+83.40	25.77
4214	TOC	464771.2227	2875259.9915	232+86.26	24.60
4215	SW	464759.3884	2875262.7540	232+88.72	36.50
4216	SW	464769.3865	2875262.5065	232+88.72	26.50
4217	SW	464759.5122	2875267.7525	232+93.72	36.50
4218	SW	464769.5102	2875267.5049	232+93.72	26.50

Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
4301	TOC	464781.9941	2875607.3929	236+33.82	22.43
4302	GUT	464781.3603	2875610.3470	236+36.76	23.14
4303	GUT	464771.4654	2875629.2792	236+55.44	33.50
4305	SW	464780.8736	2875605.2579	236+31.66	23.50
4306	SW	464770.8767	2875605.5055	236+31.66	33.50
4307	SW	464780.7498	2875600.2594	236+26.66	23.50
4308	SW	464770.7529	2875600.5070	236+26.66	33.50
4310	GUT	464772.7244	2875680.1234	237+06.30	33.50
4311	GUT	464783.6988	2875695.5977	237+22.04	22.91
4312	TOC	464784.5161	2875698.5029	237+24.96	22.17
4313	SW	464773.2423	2875701.0375	237+27.22	33.50
4314	SW	464783.2392	2875700.7899	237+27.22	23.50
4315	SW	464773.3660	2875706.0359	237+32.22	33.50
4316	SW	464783.3630	2875705.7884	237+32.22	23.50



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CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

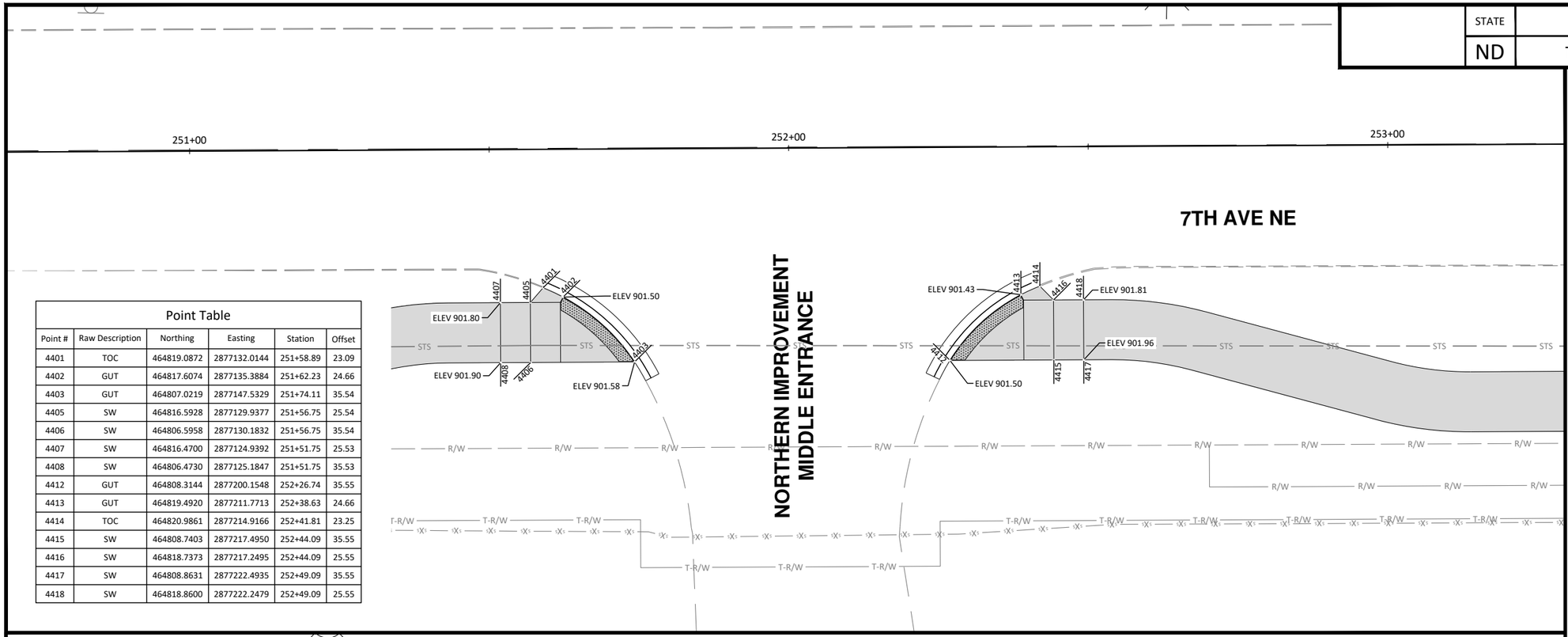
8/13/2025

General Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

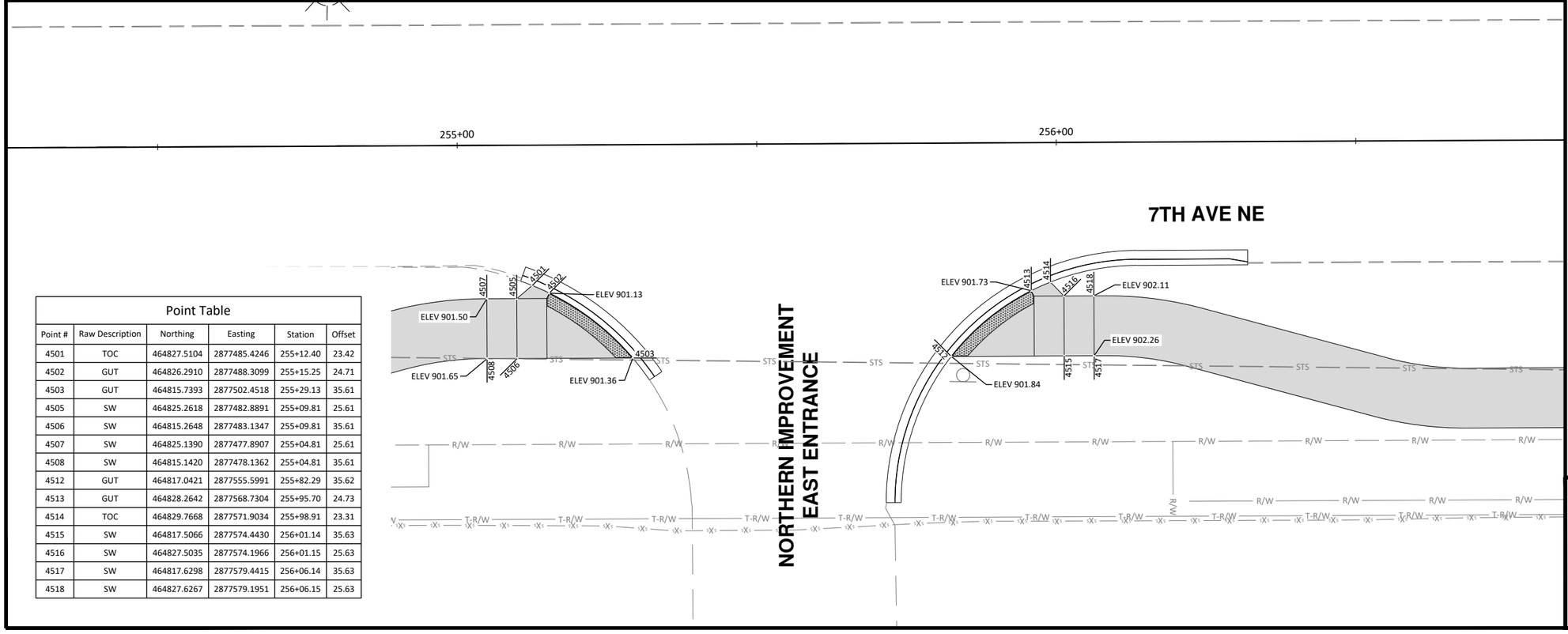
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	23



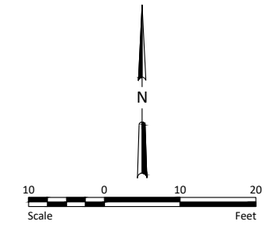
Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
4401	TOC	464819.0872	2877132.0144	251+58.89	23.09
4402	GUT	464817.6074	2877135.3884	251+62.23	24.66
4403	GUT	464807.0219	2877147.5329	251+74.11	35.54
4405	SW	464816.5928	2877129.9377	251+56.75	25.54
4406	SW	464806.5958	2877130.1832	251+56.75	35.54
4407	SW	464816.4700	2877124.9392	251+51.75	25.53
4408	SW	464806.4730	2877125.1847	251+51.75	35.53
4412	GUT	464808.3144	2877200.1548	252+26.74	35.55
4413	GUT	464819.4920	2877211.7713	252+38.63	24.66
4414	TOC	464820.9861	2877214.9166	252+41.81	23.25
4415	SW	464808.7403	2877217.4950	252+44.09	35.55
4416	SW	464818.7373	2877217.2495	252+44.09	25.55
4417	SW	464808.8631	2877222.4935	252+49.09	35.55
4418	SW	464818.8600	2877222.2479	252+49.09	25.55



Point Table

Point #	Raw Description	Northing	Easting	Station	Offset
4501	TOC	464827.5104	2877485.4246	255+12.40	23.42
4502	GUT	464826.2910	2877488.3099	255+15.25	24.71
4503	GUT	464815.7393	2877502.4518	255+29.13	35.61
4505	SW	464825.2618	2877482.8891	255+09.81	25.61
4506	SW	464815.2648	2877483.1347	255+09.81	35.61
4507	SW	464825.1390	2877477.8907	255+04.81	25.61
4508	SW	464815.1420	2877478.1362	255+04.81	35.61
4512	GUT	464817.0421	2877555.5991	255+82.29	35.62
4513	GUT	464828.2642	2877568.7304	255+95.70	24.73
4514	TOC	464829.7668	2877571.9034	255+98.91	23.31
4515	SW	464817.5066	2877574.4430	256+01.14	35.63
4516	SW	464827.5035	2877574.1966	256+01.15	25.63
4517	SW	464817.6298	2877579.4415	256+06.14	35.63
4518	SW	464827.6267	2877579.1951	256+06.15	25.63



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PE-10407
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NORTH DAKOTA

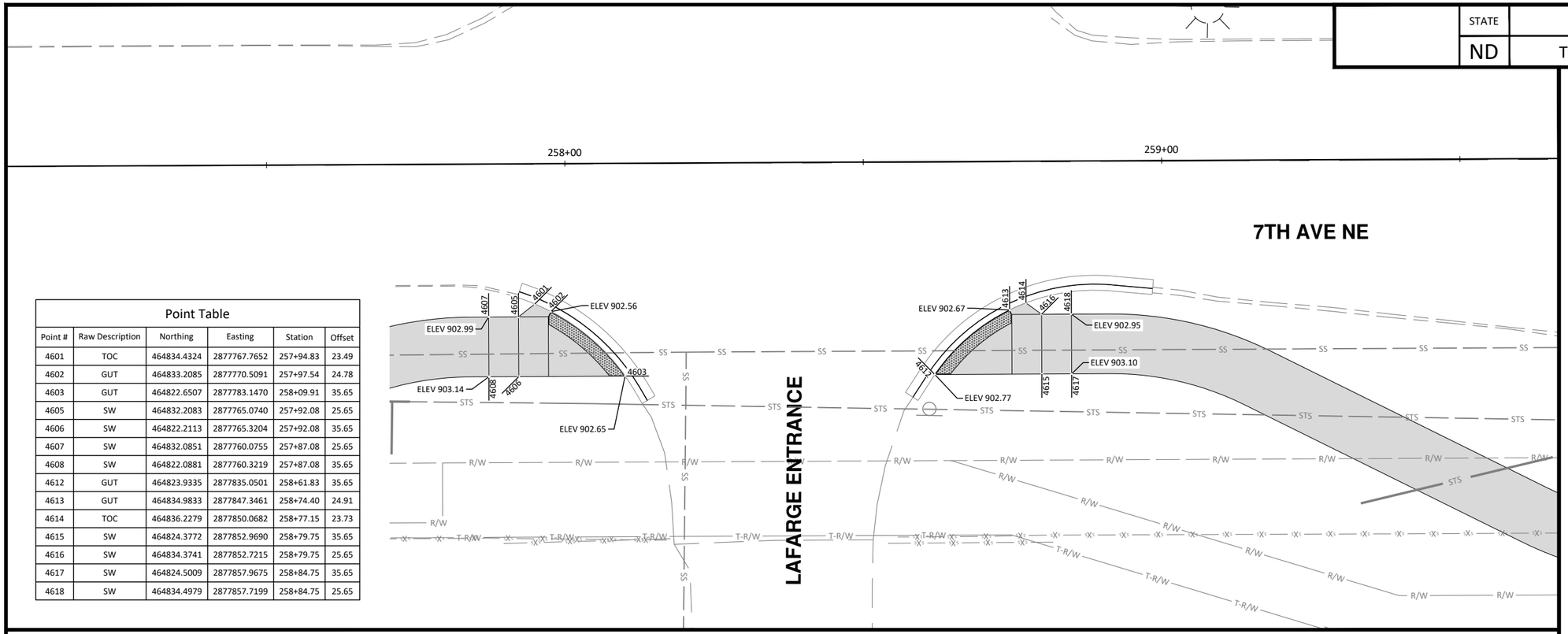
8/13/2025

General Layouts - 7th Ave NE

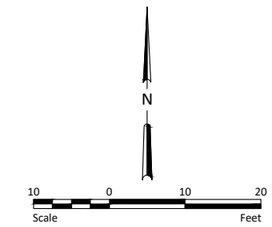
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	24



Point Table					
Point #	Raw Description	Northing	Easting	Station	Offset
4601	TOC	464834.4324	2877767.7652	257+94.83	23.49
4602	GUT	464833.2085	2877770.5091	257+97.54	24.78
4603	GUT	464822.6507	2877783.1470	258+09.91	35.65
4605	SW	464832.2083	2877765.0740	257+92.08	25.65
4606	SW	464822.2113	2877765.3204	257+92.08	35.65
4607	SW	464832.0851	2877760.0755	257+87.08	25.65
4608	SW	464822.0881	2877760.3219	257+87.08	35.65
4612	GUT	464823.9335	2877835.0501	258+61.83	35.65
4613	GUT	464834.9833	2877847.3461	258+74.40	24.91
4614	TOC	464836.2279	2877850.0682	258+77.15	23.73
4615	SW	464824.3772	2877852.9690	258+79.75	35.65
4616	SW	464834.3741	2877852.7215	258+79.75	25.65
4617	SW	464824.5009	2877857.9675	258+84.75	35.65
4618	SW	464834.4979	2877857.7199	258+84.75	25.65



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PE-10407
DATE
NORTH DAKOTA

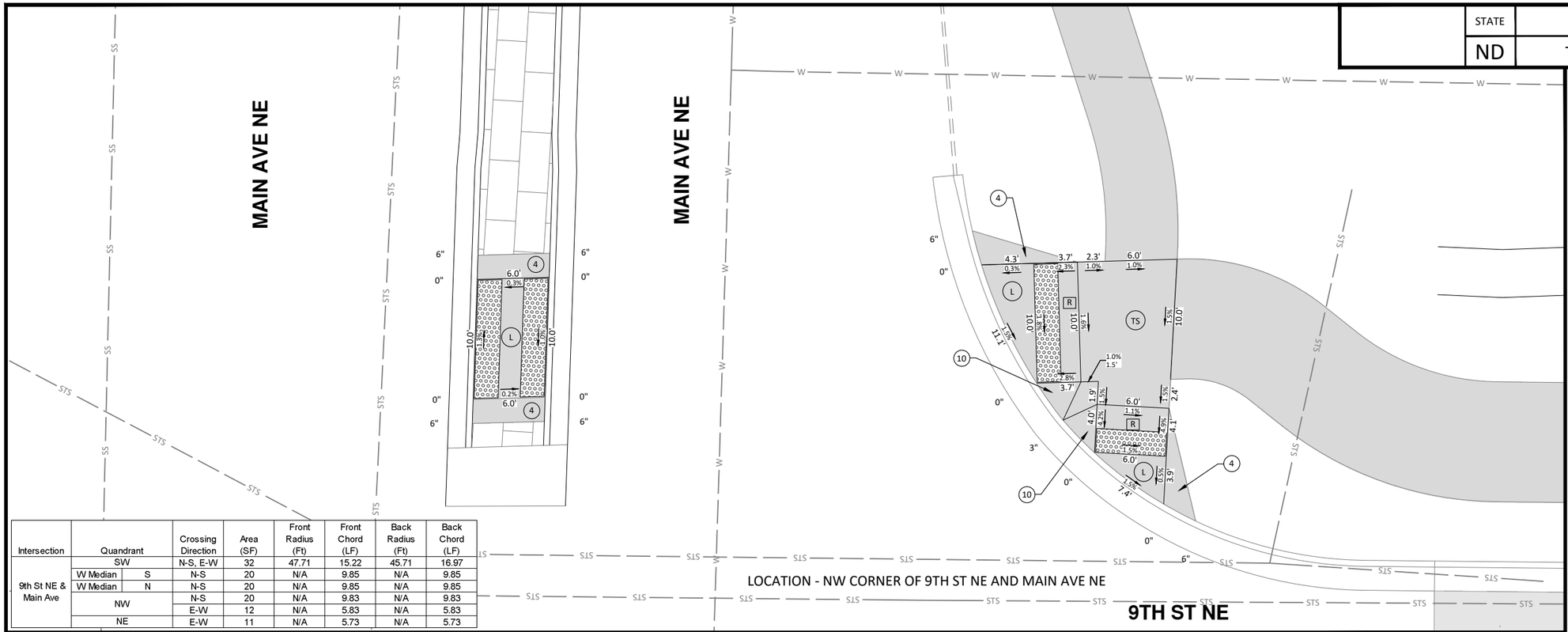
8/13/2025

General Layouts - 7th Ave NE

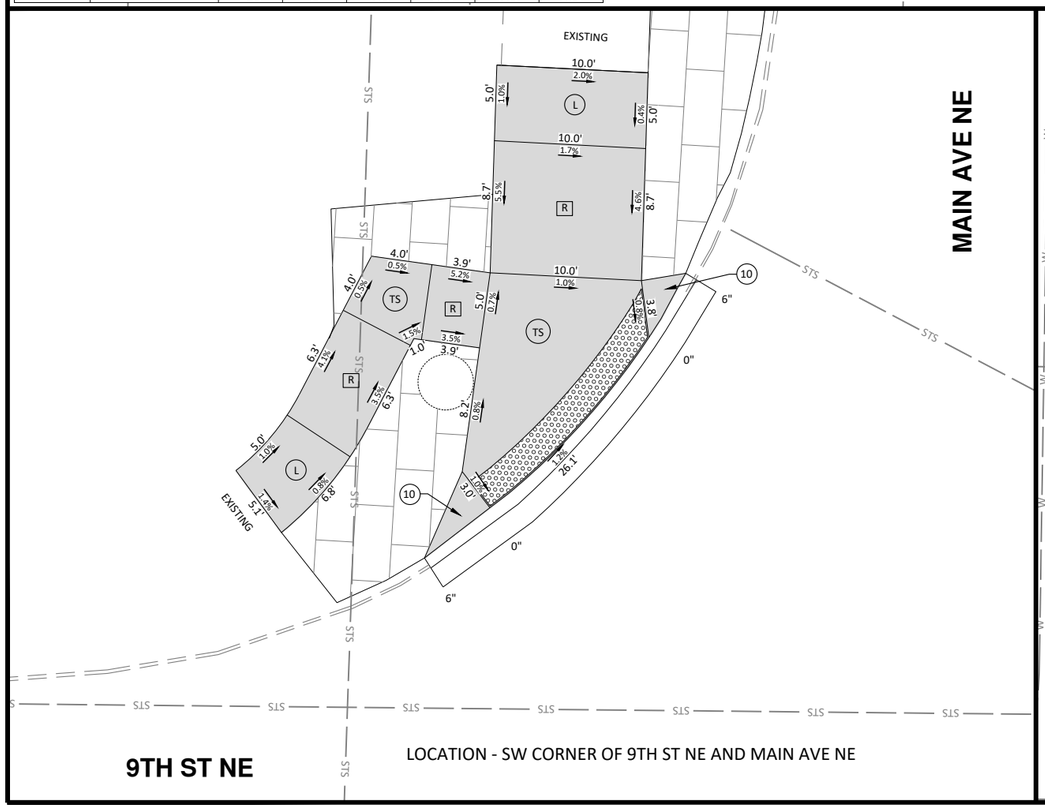
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

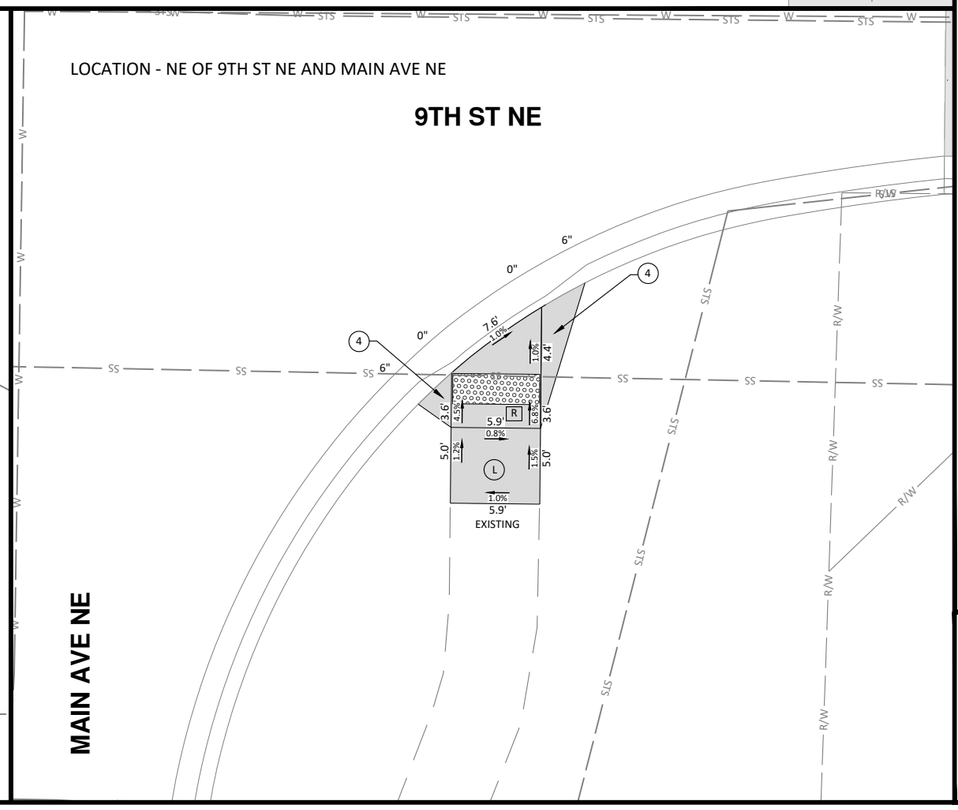
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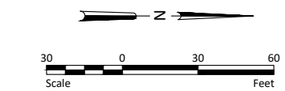
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	25



Intersection	Quandrant		Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
9th St NE & Main Ave	SW		N-S, E-W	32	47.71	15.22	45.71	16.97
	W Median	S	N-S	20	N/A	9.85	N/A	9.85
	W Median	N	N-S	20	N/A	9.85	N/A	9.85
	NW		N-S	20	N/A	9.83	N/A	9.83
			E-W	12	N/A	5.83	N/A	5.83
	NE		E-W	11	N/A	5.73	N/A	5.73







LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. (L) (TS)

PREFERRED RAMP GRADE = 5% TO 7.5%
MAXIMUM CONSTRCUTED GRADE = 8.3%
PREFRRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2%
MAXIMUM LENGTH = 15 FEET (R)

10:1 MAXIMUM CONSTRUCTED SLOPE (10)

4:1 MAXIMUM CONSTRUCTED SLOPE (4)

CURB HEIGHT 0", 3", OR 6"

CITY OF WEST FARGO

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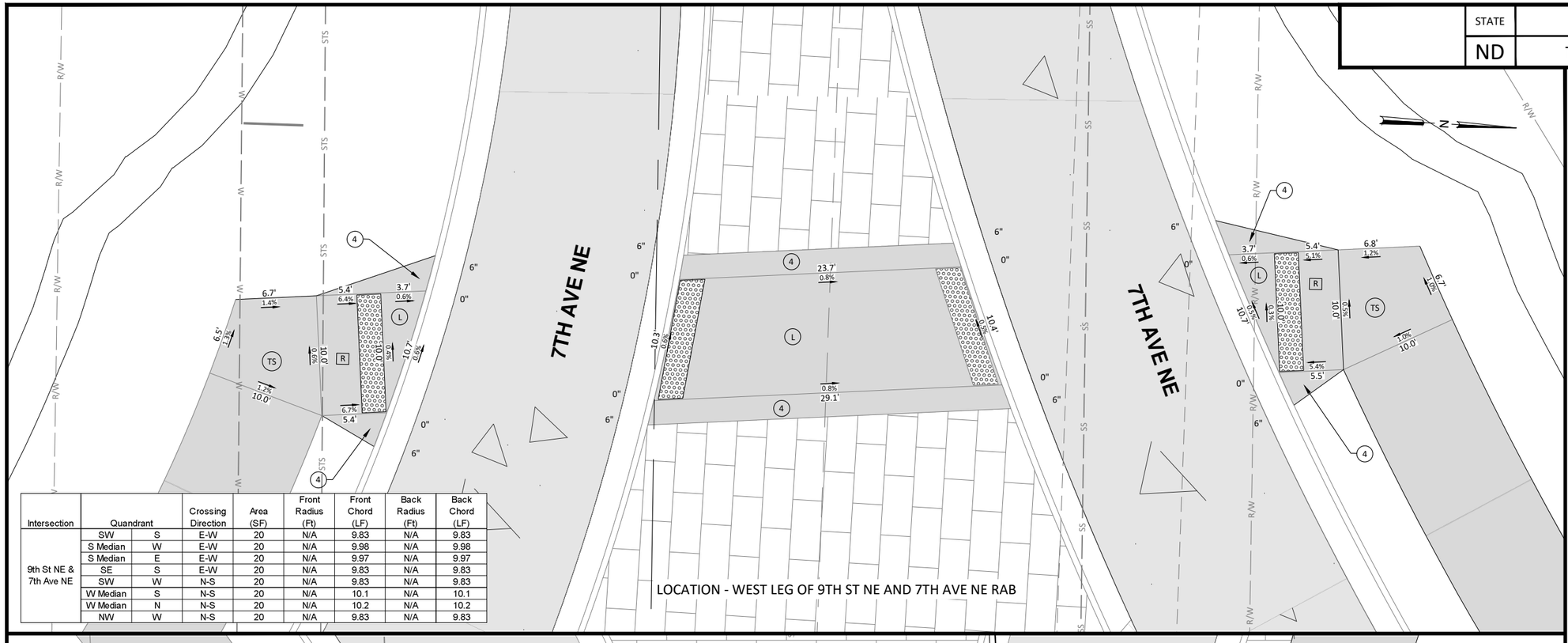
8/13/2025

Curb Ramp Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	26



Intersection	Quandrant		Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
9th St NE & 7th Ave NE	SW	S	E-W	20	N/A	9.83	N/A	9.83
	S Median	W	E-W	20	N/A	9.98	N/A	9.98
	S Median	E	E-W	20	N/A	9.97	N/A	9.97
	SE	S	E-W	20	N/A	9.83	N/A	9.83
	SW	W	N-S	20	N/A	9.83	N/A	9.83
	W Median	S	N-S	20	N/A	10.1	N/A	10.1
	W Median	N	N-S	20	N/A	10.2	N/A	10.2
	NW	W	N-S	20	N/A	9.83	N/A	9.83

5 0 5 10
Scale Feet

LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN
CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. (L) (TS)

PREFERRED RAMP GRADE = 5% TO 7.5%
MAXIMUM CONSTRCUTED GRADE = 8.3%
PREFRRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2% (R)
MAXIMUM LENGTH = 15 FEET

10:1 MAXIMUM CONSTRUCTED SLOPE (10)

4:1 MAXIMUM CONSTRUCTED SLOPE (4)

CURB HEIGHT 0", 3", OR 6"

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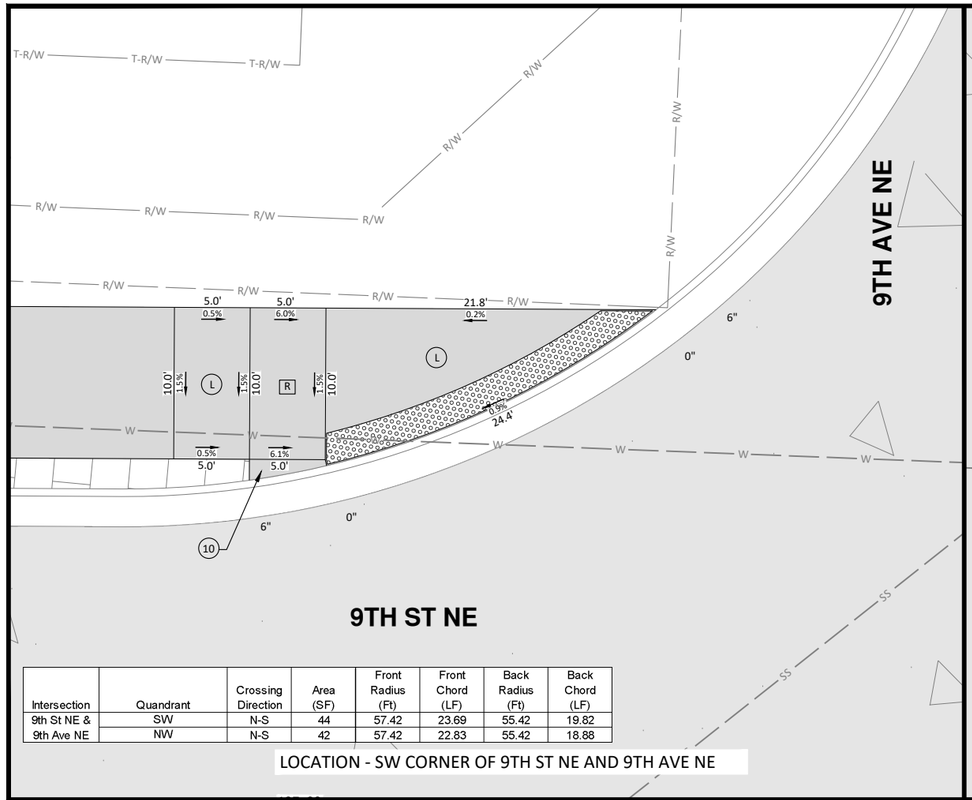
8/13/2025

Curb Ramp Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

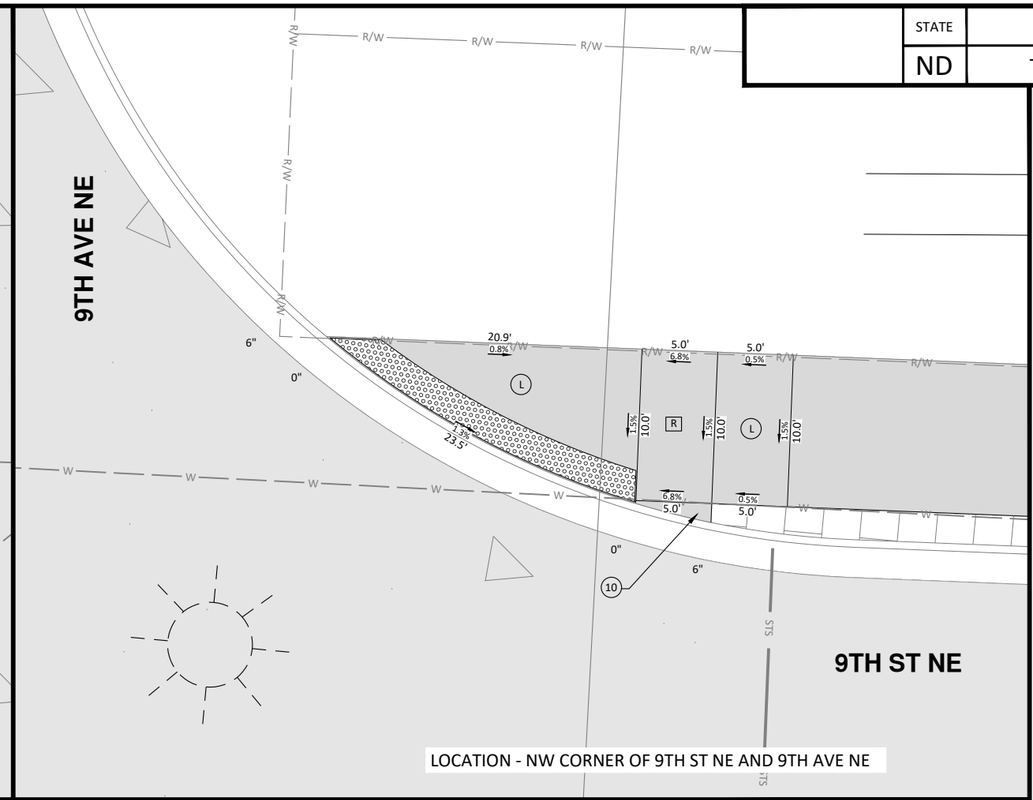
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	27

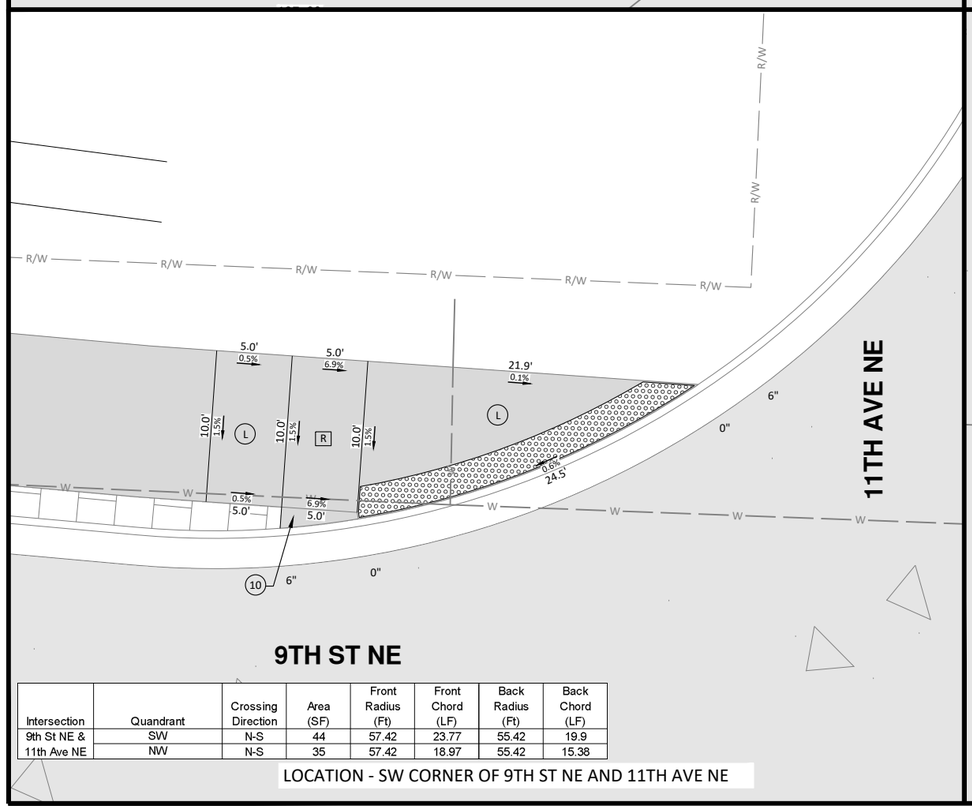


Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
9th St NE & 9th Ave NE	SW	N-S	44	57.42	23.69	55.42	19.82
	NW	N-S	42	57.42	22.83	55.42	18.88

LOCATION - SW CORNER OF 9TH ST NE AND 9TH AVE NE

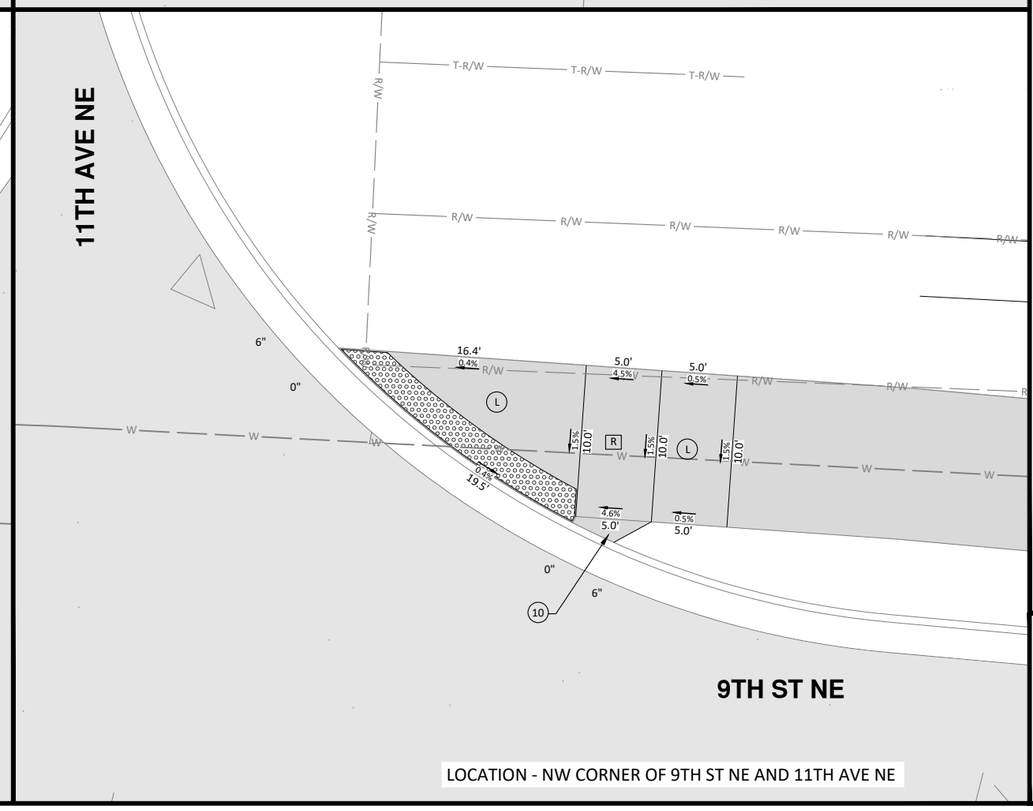


LOCATION - NW CORNER OF 9TH ST NE AND 9TH AVE NE



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
9th St NE & 11th Ave NE	SW	N-S	44	57.42	23.77	55.42	19.9
	NW	N-S	35	57.42	18.97	55.42	15.38

LOCATION - SW CORNER OF 9TH ST NE AND 11TH AVE NE



LOCATION - NW CORNER OF 9TH ST NE AND 11TH AVE NE

N

5 0 5 10
Scale Feet

LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. (L) (TS)

PREFERRED RAMP GRADE = 5% TO 7.5%
MAXIMUM CONSTRCUTED GRADE = 8.3%
PREFRRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2%
MAXIMUM LENGTH = 15 FEET (R)

10:1 MAXIMUM CONSTRUCTED SLOPE (10)

4:1 MAXIMUM CONSTRUCTED SLOPE (4)

CURB HEIGHT 0", 3", OR 6"

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

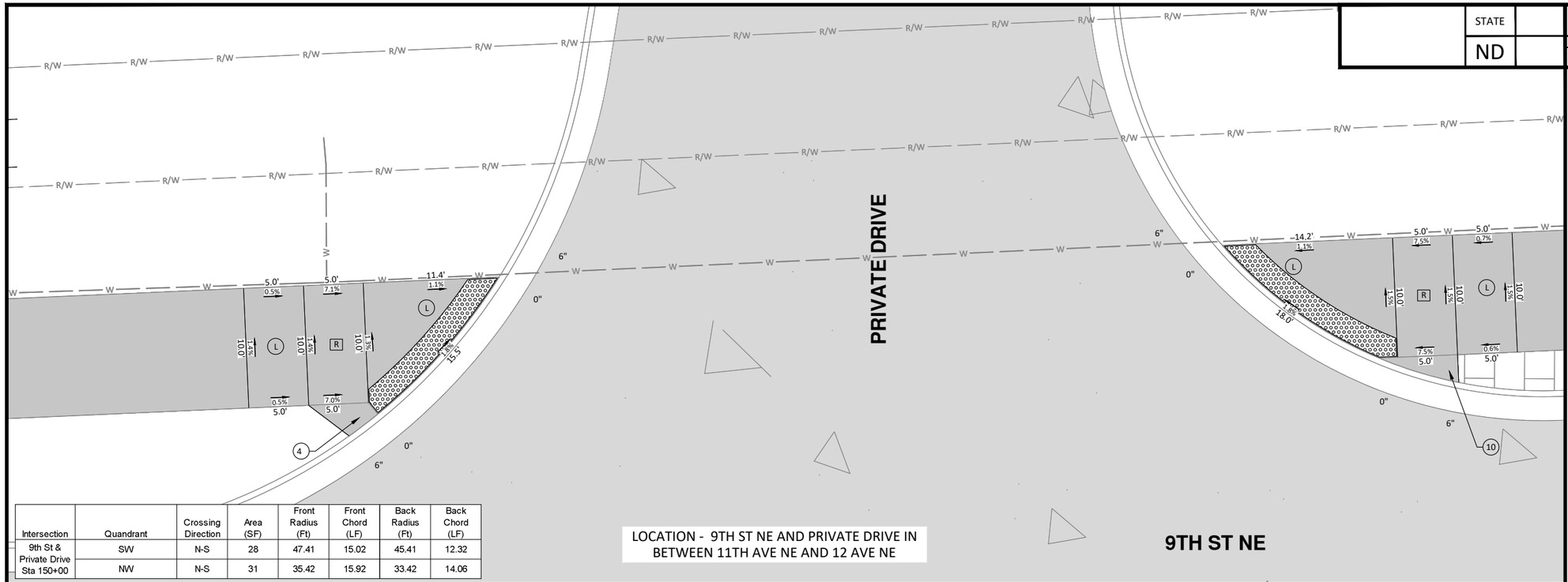
8/13/2025

Curb Ramp Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

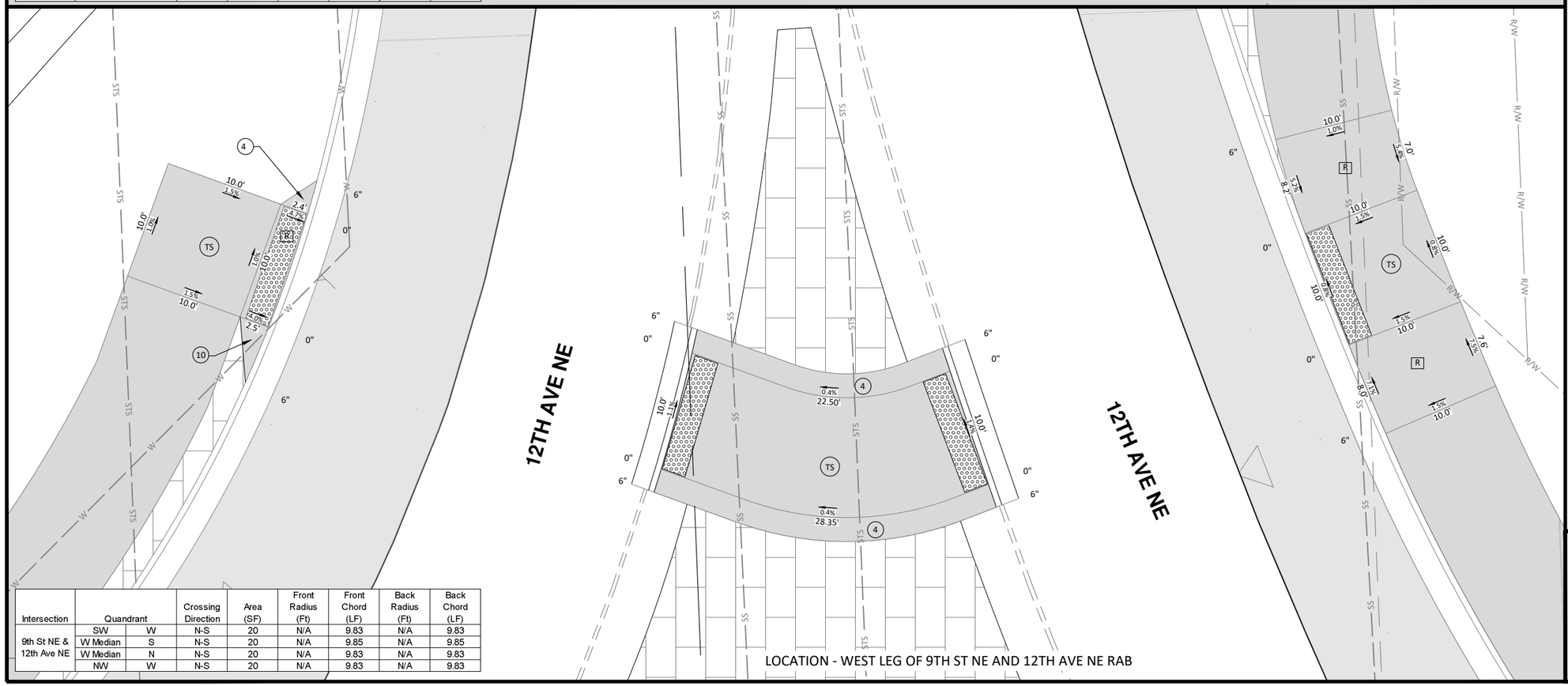
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STATE		PROJECT NO.	SECTION NO.	SHEET NO.
ND		TMA-SU-FXP-8-992(045)	80	28



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
9th St & Private Drive Sta 150+00	SW	N-S	28	47.41	15.02	45.41	12.32
	NW	N-S	31	35.42	15.92	33.42	14.06

LOCATION - 9TH ST NE AND PRIVATE DRIVE IN BETWEEN 11TH AVE NE AND 12 AVE NE



Intersection	Quandrant		Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
9th St NE & 12th Ave NE	SW	W	N-S	20	N/A	9.83	N/A	9.83
	W Median	S	N-S	20	N/A	9.85	N/A	9.85
	W Median	N	N-S	20	N/A	9.83	N/A	9.83
	NW	W	N-S	20	N/A	9.83	N/A	9.83

LOCATION - WEST LEG OF 9TH ST NE AND 12TH AVE NE RAB

N

5 0 5 10
Scale Feet

LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. (L) (TS)

PREFERRED RAMP GRADE = 5% TO 7.5%
MAXIMUM CONSTRCUTED GRADE = 8.3%
PREFRRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2%
MAXIMUM LENGTH = 15 FEET (R)

10:1 MAXIMUM CONSTRUCTED SLOPE (10)

4:1 MAXIMUM CONSTRUCTED SLOPE (4)

CURB HEIGHT 0", 3", OR 6"

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
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NORTH DAKOTA

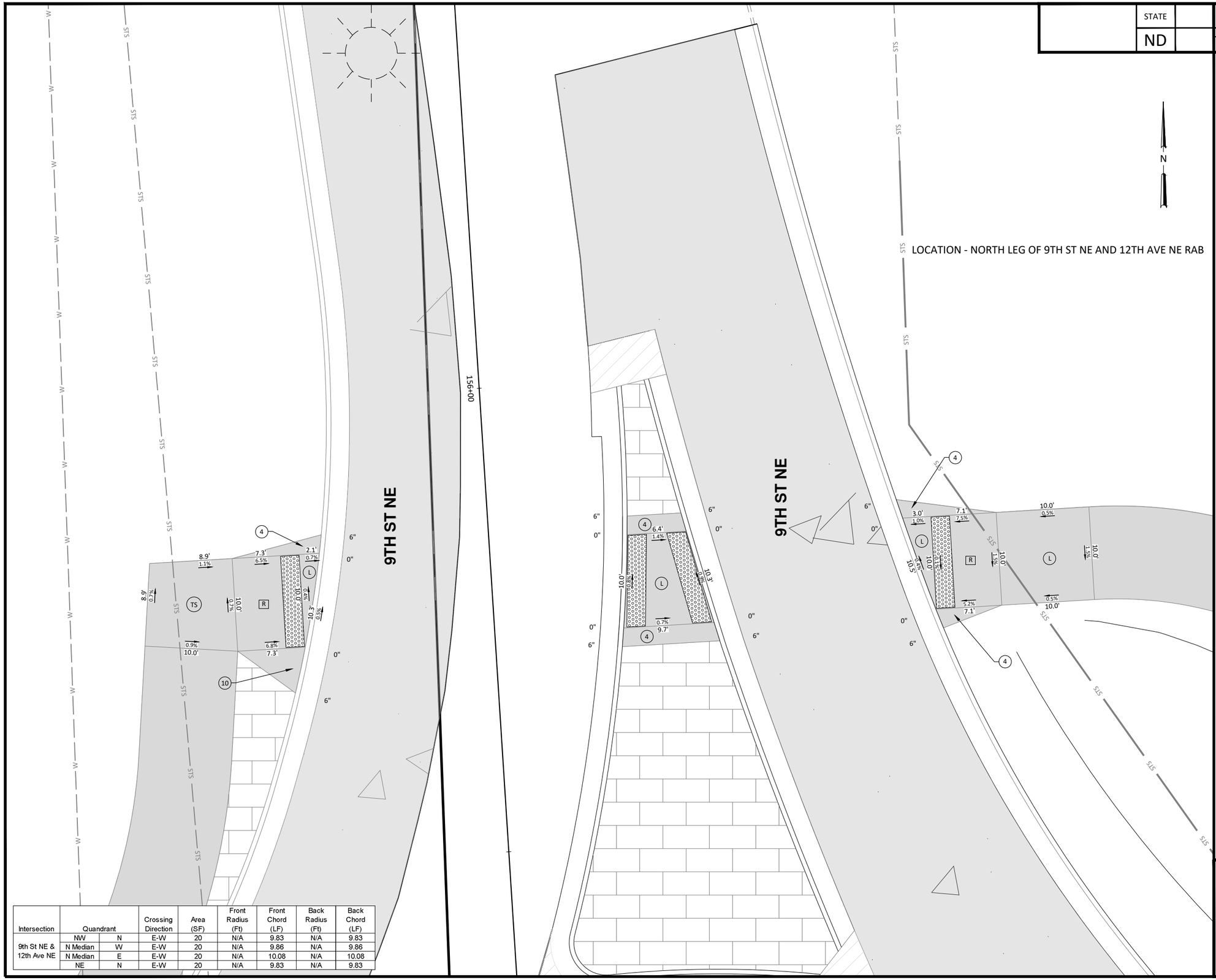
8/13/2025

Curb Ramp Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE		PROJECT NO.	SECTION NO.	SHEET NO.
	ND		TMA-SU-FXP-8-992(045)	80	29



LOCATION - NORTH LEG OF 9TH ST NE AND 12TH AVE NE RAB

N

5 0 5 10
Scale Feet

LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. (L) (TS)

PREFERRED RAMP GRADE = 5% TO 7.5%
MAXIMUM CONSTRCUTED GRADE = 8.3%
PREFRRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2%
MAXIUM LENGTH = 15 FEET (R)

10:1 MAXIMUM CONSTRUCTED SLOPE (10)

4:1 MAXIMUM CONSTRUCTED SLOPE (4)

CURB HEIGHT 0", 3", OR 6"

Intersection	Quandrant		Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
9th St NE & 12th Ave NE	NW	N	E-W	20	N/A	9.83	N/A	9.83
	N Median	W	E-W	20	N/A	9.86	N/A	9.86
	N Median	E	E-W	20	N/A	10.08	N/A	10.08
	NE	N	E-W	20	N/A	9.83	N/A	9.83

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Curb Ramp Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

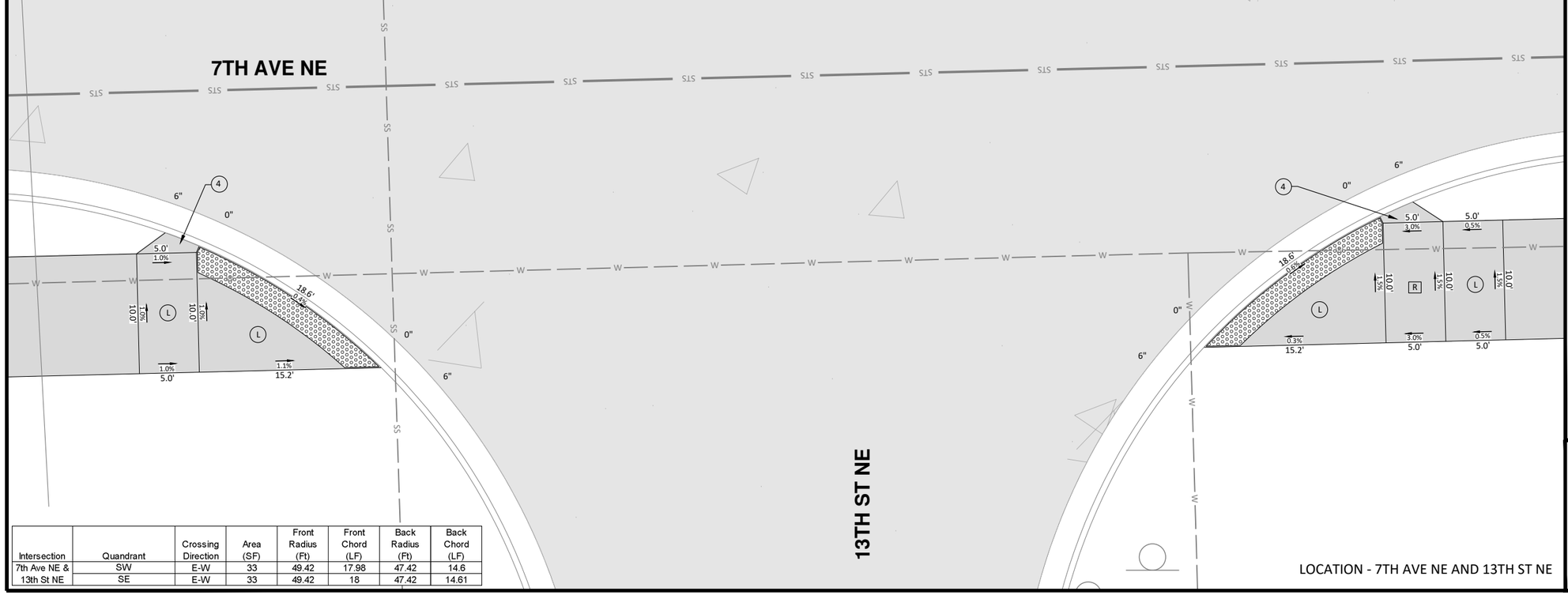
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	30



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
7th Ave NE & 10th St NE	SW	E-W	33	49.42	18.07	47.42	14.7
	SE	E-W	32	47.42	17.46	45.42	14.07

LOCATION - 7TH AVE NE AND 10TH ST NE



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
7th Ave NE & 13th St NE	SW	E-W	33	49.42	17.98	47.42	14.6
	SE	E-W	33	49.42	18	47.42	14.61

LOCATION - 7TH AVE NE AND 13TH ST NE

N

5 0 5 10

Scale Feet

LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN
CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. (L) (TS)

PREFERRED RAMP GRADE = 5% TO 7.5%
MAXIMUM CONSTRCUTED GRADE = 8.3%
PREFRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2%
MAXIMUM LENGTH = 15 FEET (R)

10:1 MAXIMUM CONSTRUCTED SLOPE (10)

4:1 MAXIMUM CONSTRUCTED SLOPE (4)

CURB HEIGHT 0", 3", OR 6"

WARNING
HIGH-PRESSURE PIPELINE(S)
Excavation and/or Construction Prohibited
Without compliance with **State One-Call**, AND
Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.
A MAGELLAN REPRESENTATIVE MUST BE PRESENT DURING WORK AROUND PIPELINE(S)

CITY OF WEST FARGO

HOUSTON engineering, inc.

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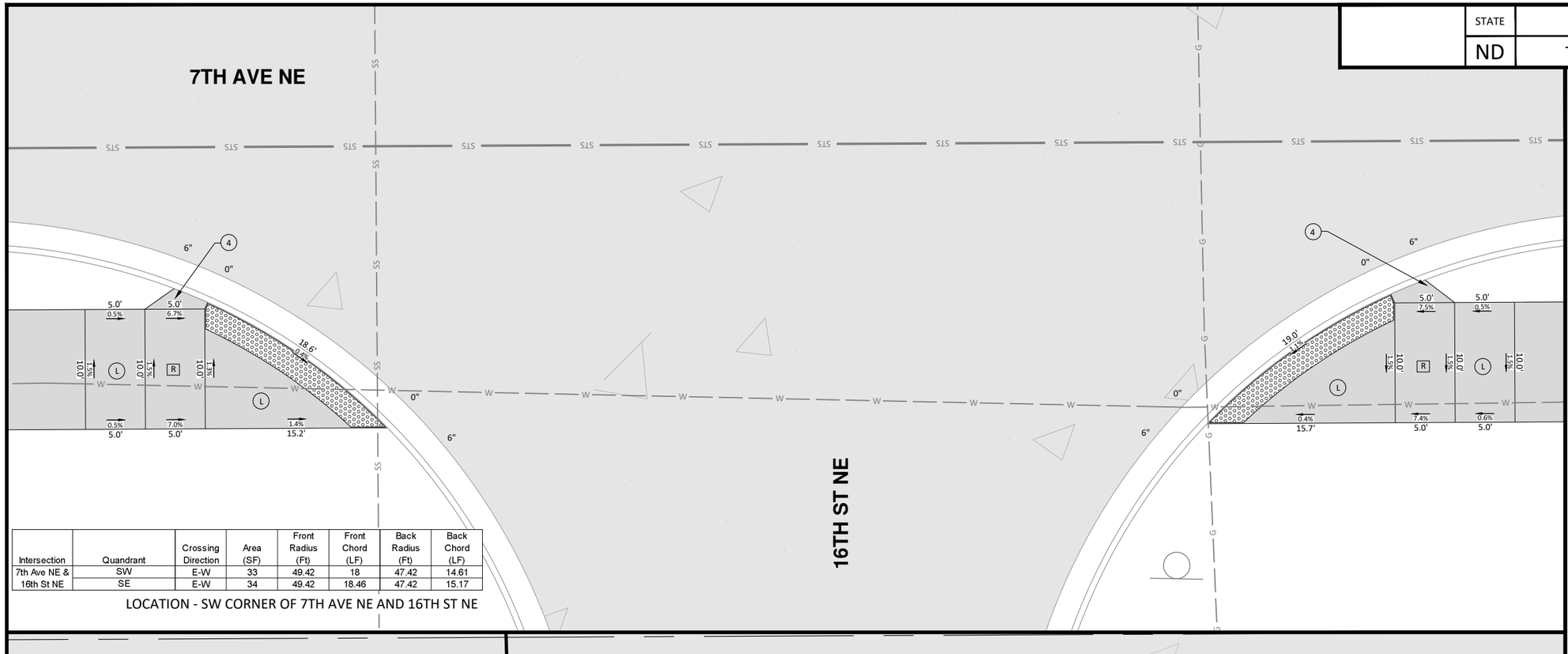
8/13/2025

Curb Ramp Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

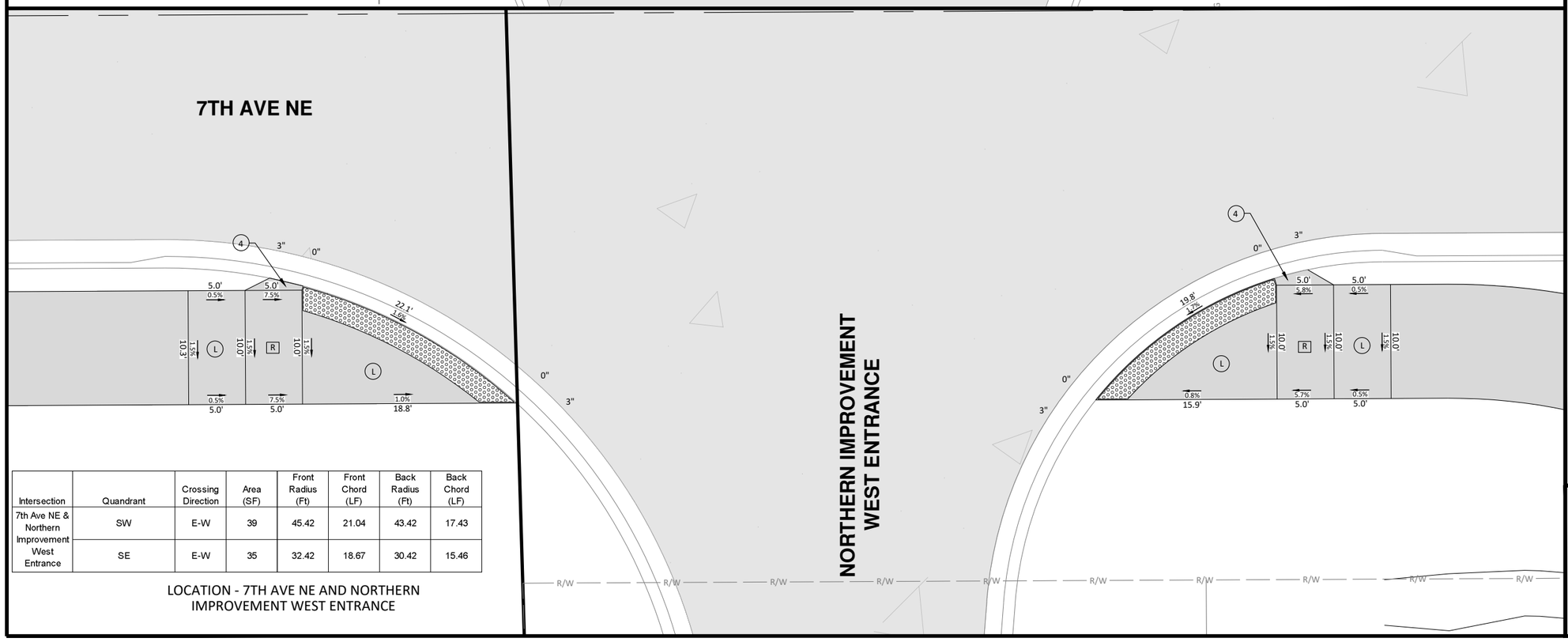
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	31



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
7th Ave NE & 16th St NE	SW	E-W	33	49.42	18	47.42	14.61
	SE	E-W	34	49.42	18.46	47.42	15.17

LOCATION - SW CORNER OF 7TH AVE NE AND 16TH ST NE



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
7th Ave NE & Northern Improvement West Entrance	SW	E-W	39	45.42	21.04	43.42	17.43
	SE	E-W	35	32.42	18.67	30.42	15.46

LOCATION - 7TH AVE NE AND NORTHERN IMPROVEMENT WEST ENTRANCE

N

5 0 5 10

Scale Feet

LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN
CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. — L TS

PREFERRED RAMP GRADE = 5% TO 7.5%
MAXIMUM CONSTRCUTED GRADE = 8.3%
PREFRRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2% — R
MAXIMUM LENGTH = 15 FEET

10:1 MAXIMUM CONSTRUCTED SLOPE — 10

4:1 MAXIMUM CONSTRUCTED SLOPE — 4

CURB HEIGHT — 0", 3", OR 6"

CITY OF WEST FARGO

HOUSTON engineering, inc.

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8/13/2025

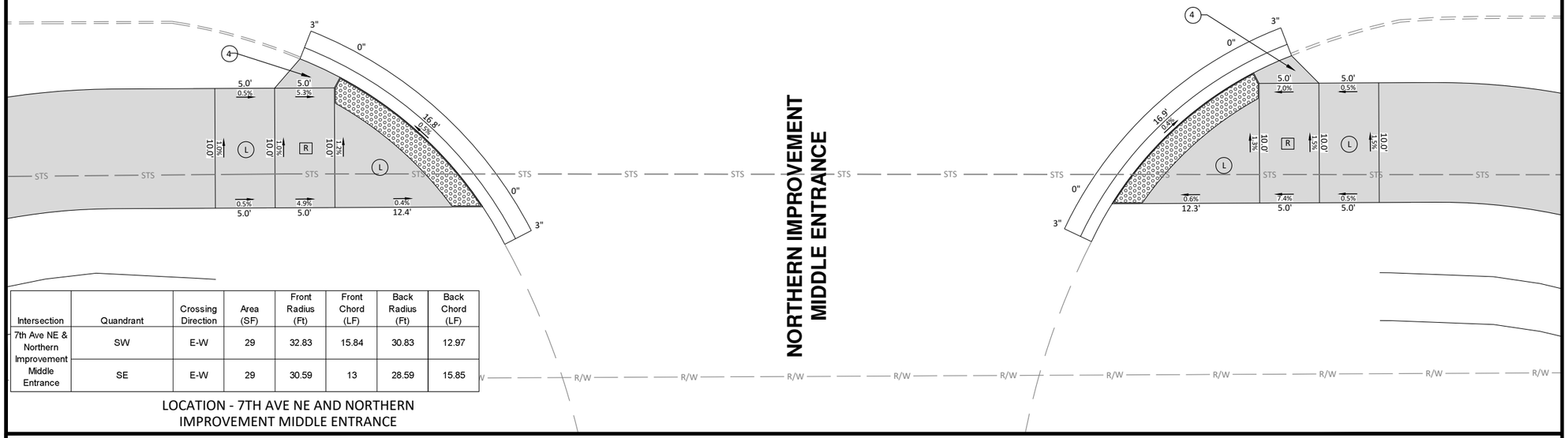
Curb Ramp Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	32

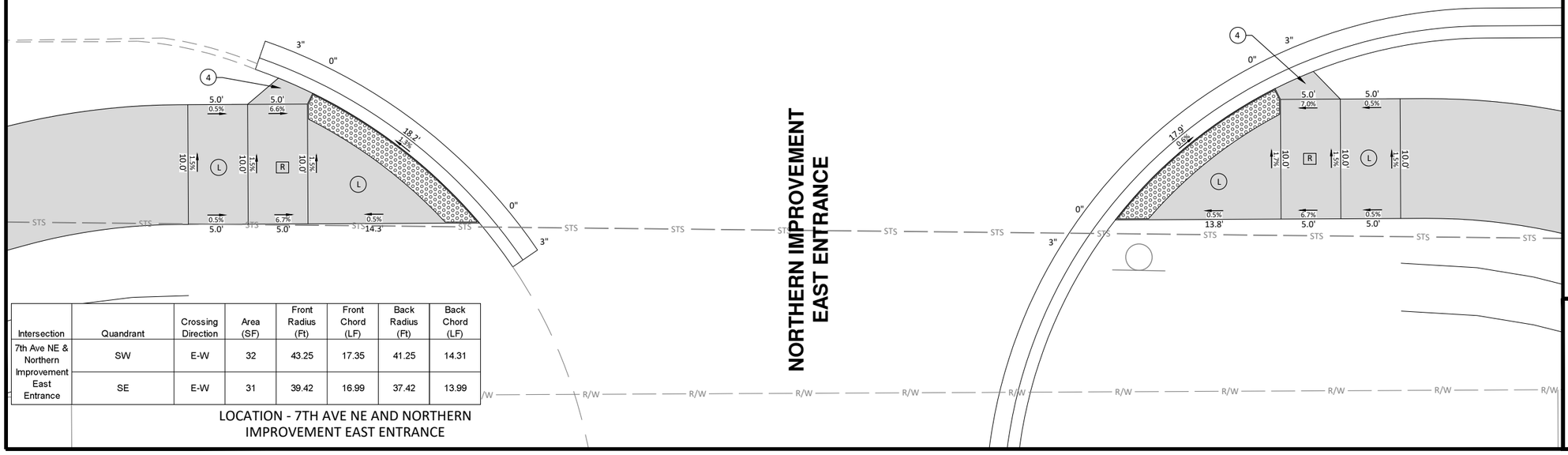
7TH AVE NE



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
7th Ave NE & Northern Improvement Middle Entrance	SW	E-W	29	32.83	15.84	30.83	12.97
	SE	E-W	29	30.59	13	28.59	15.85

LOCATION - 7TH AVE NE AND NORTHERN IMPROVEMENT MIDDLE ENTRANCE

7TH AVE NE



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
7th Ave NE & Northern Improvement East Entrance	SW	E-W	32	43.25	17.35	41.25	14.31
	SE	E-W	31	39.42	16.99	37.42	13.99

LOCATION - 7TH AVE NE AND NORTHERN IMPROVEMENT EAST ENTRANCE

N

5 0 5 10

Scale Feet

LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN
CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. (L) (TS)

PREFERRED RAMP GRADE = 5% TO 7.5%
MAXIMUM CONSTRCUTED GRADE = 8.3%
PREFRRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2%
MAXIMUM LENGTH = 15 FEET (R)

10:1 MAXIMUM CONSTRUCTED SLOPE (10)

4:1 MAXIMUM CONSTRUCTED SLOPE (4)

CURB HEIGHT 0", 3", OR 6"

CITY OF WEST FARGO

HOUSTON engineering, inc.

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8/13/2025

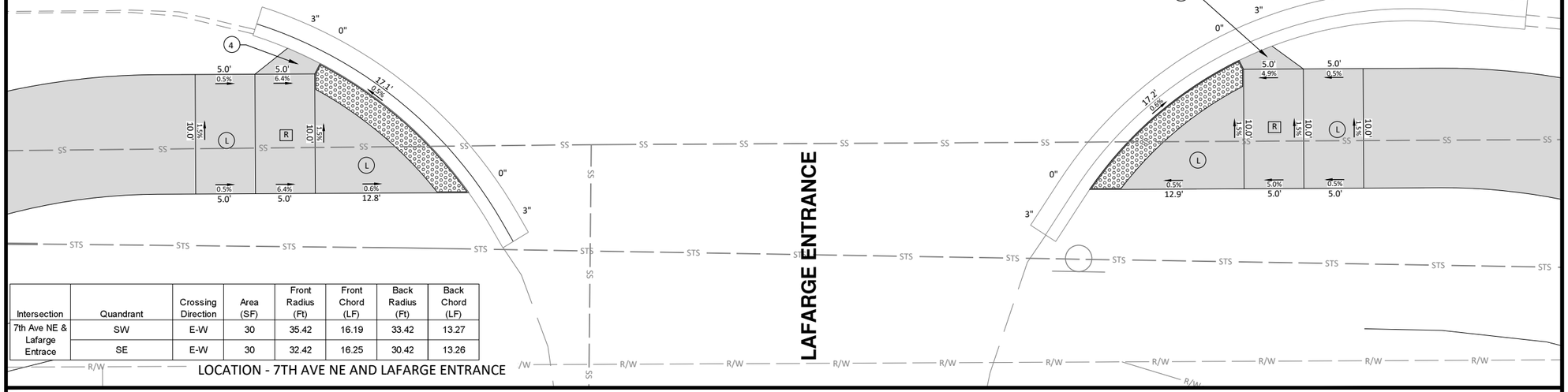
Curb Ramp Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	80	33

7TH AVE NE



Intersection	Quandrant	Crossing Direction	Area (SF)	Front Radius (Ft)	Front Chord (LF)	Back Radius (Ft)	Back Chord (LF)
7th Ave NE & Lafarge Entrace	SW	E-W	30	35.42	16.19	33.42	13.27
	SE	E-W	30	32.42	16.25	30.42	13.26

LOCATION - 7TH AVE NE AND LAFARGE ENTRANCE

N

5 0 5 10
Scale Feet

LEGEND

DETECTABLE WARNING PANEL

TURNING SPACE/LANDING
USE AT TOP OF RAMP OR WHEN CHANGING DIRECTIONS.
1.5% PREFERRED SLOPE (2% MAXIMUM)
ALL DIRECTIONS. — L TS

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PREFRRED CROSS SLOPE = 1.5%
MAXIMUM CONSTRUCTED CROSS SLOPE = 2%
MAXIUM LENGTH = 15 FEET — R

10:1 MAXIMUM CONSTRUCTED SLOPE — 10

4:1 MAXIMUM CONSTRUCTED SLOPE — 4

CURB HEIGHT — 0", 3", OR 6"

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PE-10407
DATE
NORTH DAKOTA

8/13/2025

Curb Ramp Layouts - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	80	34

SPEC	CODE	BID ITEM	QTY	UNIT
752	4170	SCREENING CHAIN LINK		
		Sta 135+17 to Sta 137+08 Rt	191	LF
		Sta 137+80 to Sta 138+65 Rt	94	LF
752	922	FENCE REMOVE & RESET		
		Sta 262+11 to Sta 262+50 Lt	72	LF

LEGEND

SCREENING CHAIN LINK

FENCE REMOVE & RESET

N

30 0 30 60
Scale Feet

9TH AVE NE

9TH ST NE

FRONTAGE RD

134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00

BEGIN INSTALL SCREENING CHAIN LINK
STA 135+17 - 59' RT

END INSTALL SCREENING CHAIN LINK
STA 137+08 - 67' RT

BEGIN INSTALL SCREENING CHAIN LINK
STA 137+80 - 67' RT

END INSTALL SCREENING CHAIN LINK
STA 138+65 - 75' RT

BEGIN FENCE REMOVE & RESET
STA 262+11 - 59' LT

END FENCE REMOVE & RESET
STA 262+50 - 92' LT

257+00 258+00 259+00 260+00 261+00 262+00 263+00 264+00

7TH AVE NE

45TH ST N

CITY OF WEST FARGO

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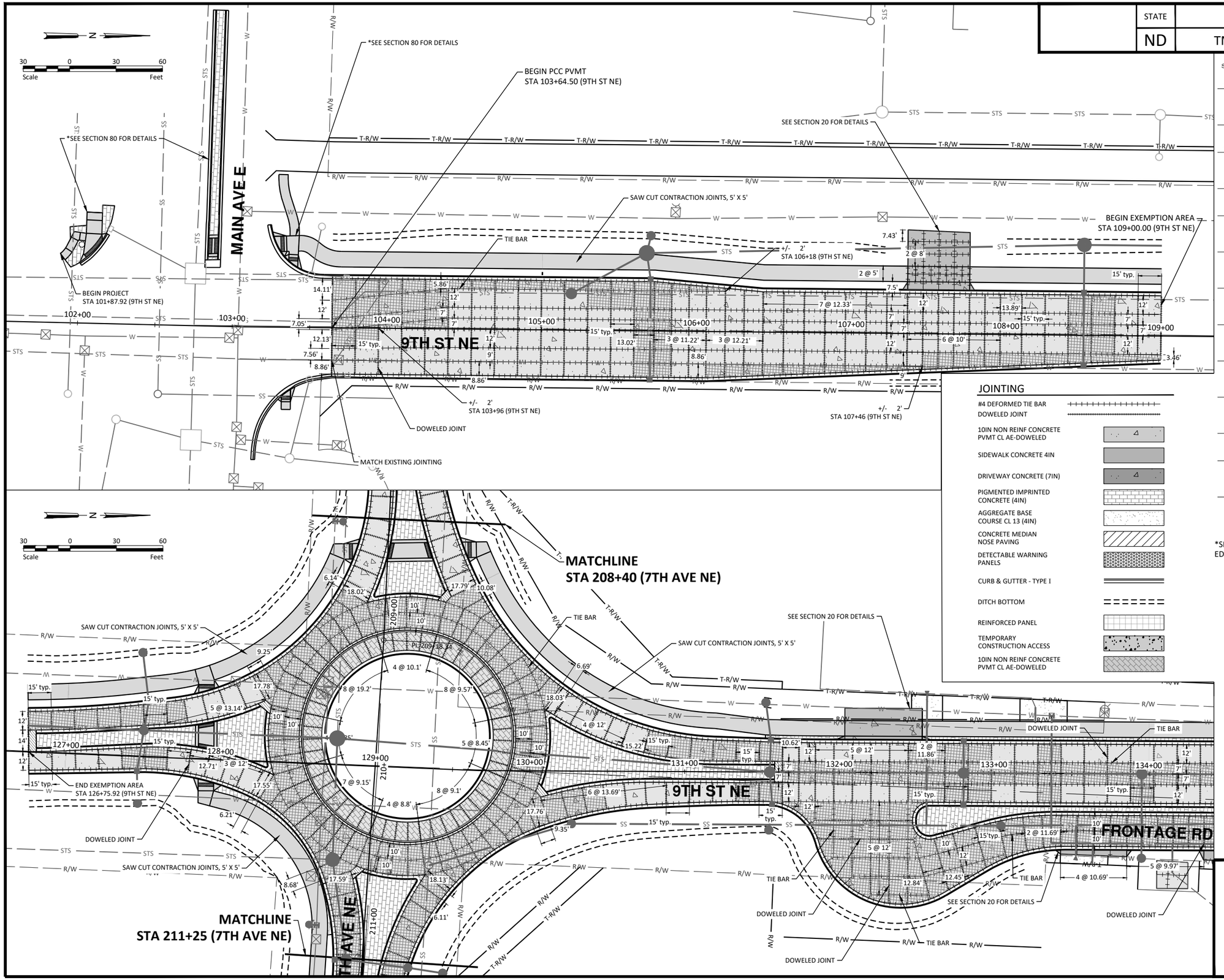
8/13/2025

Fencing Layouts - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	90	1



JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- AGGREGATE BASE COURSE CL 13 (4IN)
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL
- TEMPORARY CONSTRUCTION ACCESS
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED

SPEC	CODE	BID ITEM	QTY	UNIT
302	101	SALVAGED BASE AGGREGATE		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	1405	CY
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	2849	CY
302	356	AGGREGATE SURFACE COURSE CL 13		
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	21	TON
550	310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	3247	SY
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	4622	SY
550	335	NON-REINF CONCRETE PVMT CL AE-DOWELED-COLORED-TEXT		
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	515	SY
709	151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	3905	SY
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	7189	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	1212	LF
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	1472	LF
748	120	CURB & GUTTER MOUNTABLE-TYPE I		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	88	LF
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	430	LF
748	140	CURB & GUTTER-TYPE I		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	1473	LF
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	3234	LF
750	30	PIGMENTED IMPRINTED CONCRETE		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	123	SY
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	936	SY
750	125	SIDEWALK CONCRETE 5IN		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	691	SY
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	1013	SY
750	210	CONCRETE MEDIAN NOSE PAVING		
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	37	SY
750	1000	DRIVEWAY CONCRETE		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	170	SY
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	129	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 101+87.92 to Sta 109+00 (Pr_9thSt)	115	SF
		Sta 126+75.92 to Sta 134+00 (Pr_9thSt)	159	SF

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

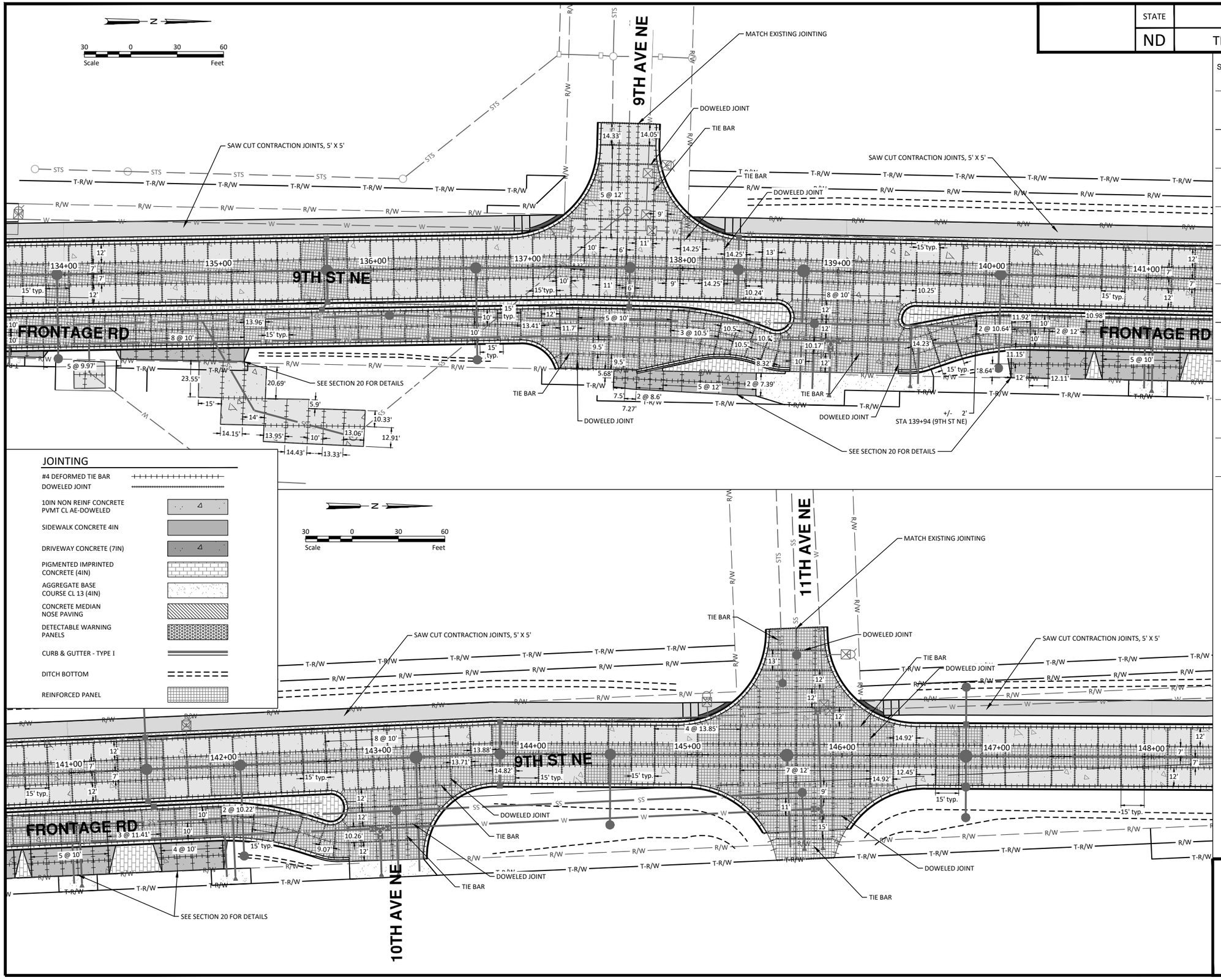
8/13/2025

Jointing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	90	2



JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- AGGREGATE BASE COURSE CL 13 (4IN)
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL

SPEC	CODE	BID ITEM	QTY	UNIT
302	101	SALVAGED BASE AGGREGATE		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	2594	CY
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	1869	CY
302	356	AGGREGATE SURFACE COURSE CL 13		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	45	TON
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	23	TON
550	310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	5795	SY
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	4355	SY
709	151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	6922	SY
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	5141	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	1367	LF
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	1398	LF
748	120	CURB & GUTTER MOUNTABLE-TYPE I		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	131	LF
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	24	LF
748	140	CURB & GUTTER-TYPE I		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	2505	LF
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	1756	LF
750	30	PIGMENTED IMPRINTED CONCRETE		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	460	SY
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	242	SY
750	125	SIDEWALK CONCRETE 5IN		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	668	SY
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	673	SY
750	1000	DRIVEWAY CONCRETE		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	364	SY
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	138	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 134+00 to Sta 141+00 (Pr_9thSt)	86	SF
		Sta 141+00 to Sta 148+00 (Pr_9thSt)	79	SF

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

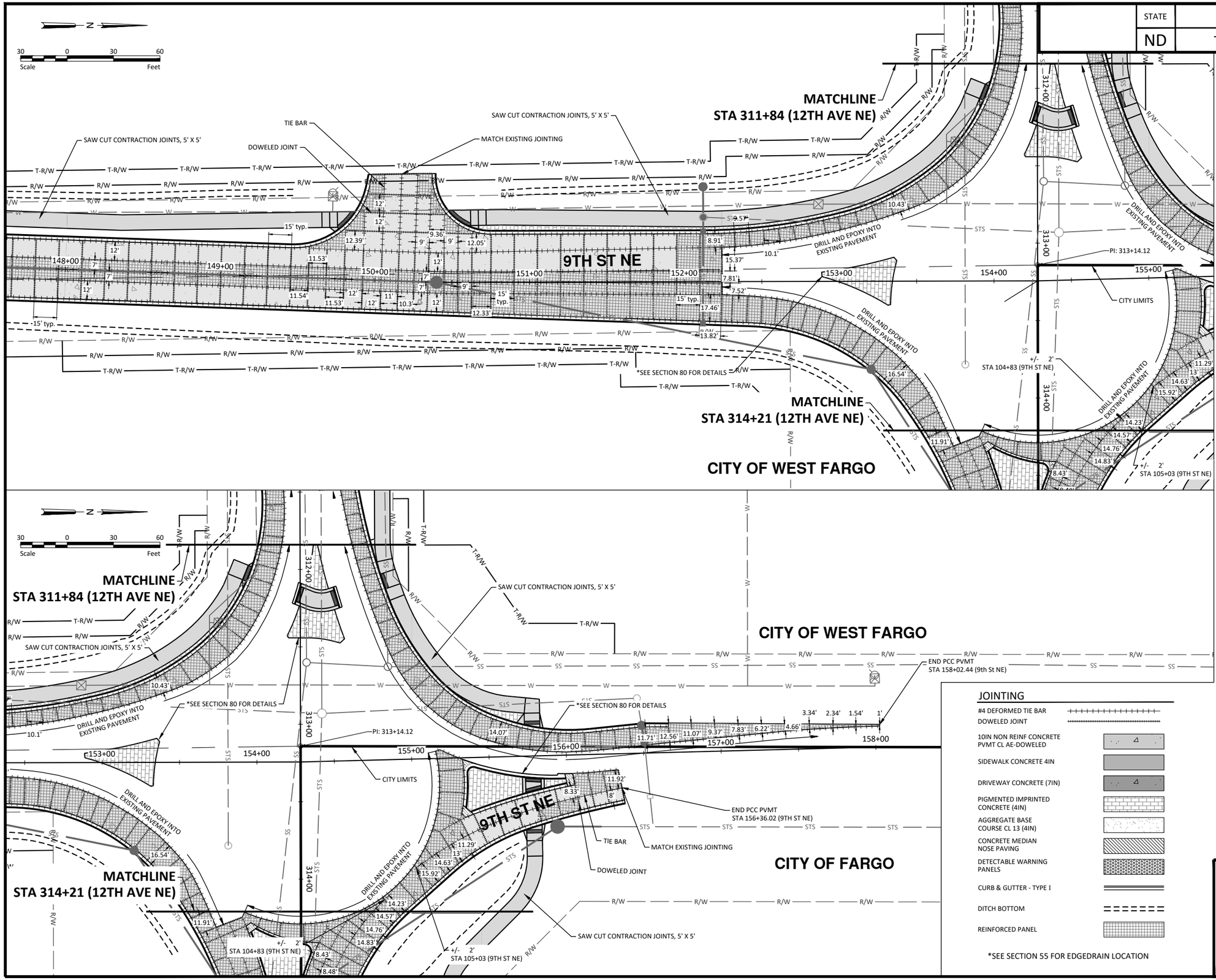
8/13/2025

Jointing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	90	3



SPEC	CODE	BID ITEM	QTY	UNIT
302	101	SALVAGED BASE AGGREGATE		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	1440	CY
(Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	15	CY
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	151	CY
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	251	CY
550	310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	3190	SY
(Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	46	SY
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	335	SY
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	449	SY
709	151	GEOSYNTHETIC MATERIAL TYPE R1		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	3902	SY
(Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	46	SY
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	413	SY
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	641	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	1120	LF
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	147	LF
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	30	LF
748	140	CURB & GUTTER-TYPE I		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	1331	LF
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	185	LF
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	311	LF
750	30	PIGMENTED IMPRINTED CONCRETE		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	262	SY
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	15	SY
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	82	SY
750	125	SIDEWALK CONCRETE 5IN		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	724	SY
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	124	SY
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	103	SY
750	210	CONCRETE MEDIAN NOSE PAVING		
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	10	SY
750	2115	DETECTABLE WARNING PANELS		
(West Fargo)		Sta 148+00 to Sta 155+00 (Pr_9thSt)	137	SF
(West Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	20	SF
(Fargo)		Sta 155+00 to Sta 158+02.44 (Pr_9thSt)	60	SF

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- AGGREGATE BASE COURSE CL 13 (4IN)
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Jointing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	90	4

SPEC CODE	BID ITEM		QTY	UNIT
302 101	SALVAGED BASE AGGREGATE			
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)		230	CY
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		327	CY
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		301	CY
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED			
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)		458	SY
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		516	SY
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		683	SY
709 151	GEOSYNTHETIC MATERIAL TYPE R1			
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)		685	SY
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		841	SY
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		884	SY
714 9696	EDGEDRAIN NON PERMEABLE BASE			
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		423	LF
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		473	LF
748 140	CURB & GUTTER-TYPE I			
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)		586	LF
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		548	LF
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		502	LF
750 30	PIGMENTED IMPRINTED CONCRETE			
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		130	SY
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		9	SY
750 125	SIDEWALK CONCRETE 5IN			
(West Fargo)	Sta 308+45.81 to Sta 311+84 (Pr_12thAve)		46	SY
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		53	SY
750 210	CONCRETE MEDIAN NOSE PAVING			
(West Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		3	SY
(Fargo)	Sta 314+21 to Sta 318+80.56 (Pr_12thAve)		2	SY

JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- AGGREGATE BASE COURSE CL 13 (4IN)
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Jointing - 12th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	90	5

N

30 0 30 60
Scale Feet

MATCHLINE
STA 208+40 (7TH AVE NE)

MATCHLINE
STA 211+25 (7TH AVE NE)

7TH AVE NE

9TH ST NE

10TH ST NE

MATCH EXISTING JOINTING

BEGIN PCC PVMT
STA 206+20.05 (7TH AVE NE)

TIE BAR

DOWELED JOINT

SAW CUT CONTRACTION JOINTS, 5' X 5'

205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00

JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- VALLEY GUTTER 72IN
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

MAGELLAN PIPELINE

MAGELLAN ESMT.

WARNING
HIGH-PRESSURE PIPELINE(S)
Excavation and/or Construction Prohibited
Without compliance with **State One-Call**, AND
Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.
A MAGELLAN REPRESENTATIVE MUST BE PRESENT DURING WORK AROUND PIPELINE(S)

SEE SECTION 20 FOR DETAILS

VALLEY GUTTER 72IN

SAW CUT CONTRACTION JOINTS, 5' X 5'

MATCH EXISTING JOINTING

213+00 214+00 215+00 216+00 217+00 218+00 219+00

SPEC	CODE	BID ITEM	QTY	UNIT
302	101	SALVAGED BASE AGGREGATE		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	424	CY
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	165	CY
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	1326	CY
550	310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	797	SY
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	221	SY
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	3184	SY
709	151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	1138	SY
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	389	SY
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	3839	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	143	LF
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	151	LF
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	1381	LF
748	140	CURB & GUTTER-TYPE I		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	643	LF
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	300	LF
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	1463	LF
748	1030	VALLEY GUTTER 72IN		
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	70	SY
750	30	PIGMENTED IMPRINTED CONCRETE		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	116	SY
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	77	SY
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	18	SY
750	125	SIDEWALK CONCRETE 5IN		
		Sta 211+25 to Sta 212+00 (Pr_7thAve)	83	SY
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	691	SY
750	210	CONCRETE MEDIAN NOSE PAVING		
		Sta 206+20.05 to Sta 208+40 (Pr_7thAve)	8	SY
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	8	SY
750	1000	DRIVEWAY CONCRETE		
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	47	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 212+00 to Sta 219+00 (Pr_7thAve)	65	SF

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

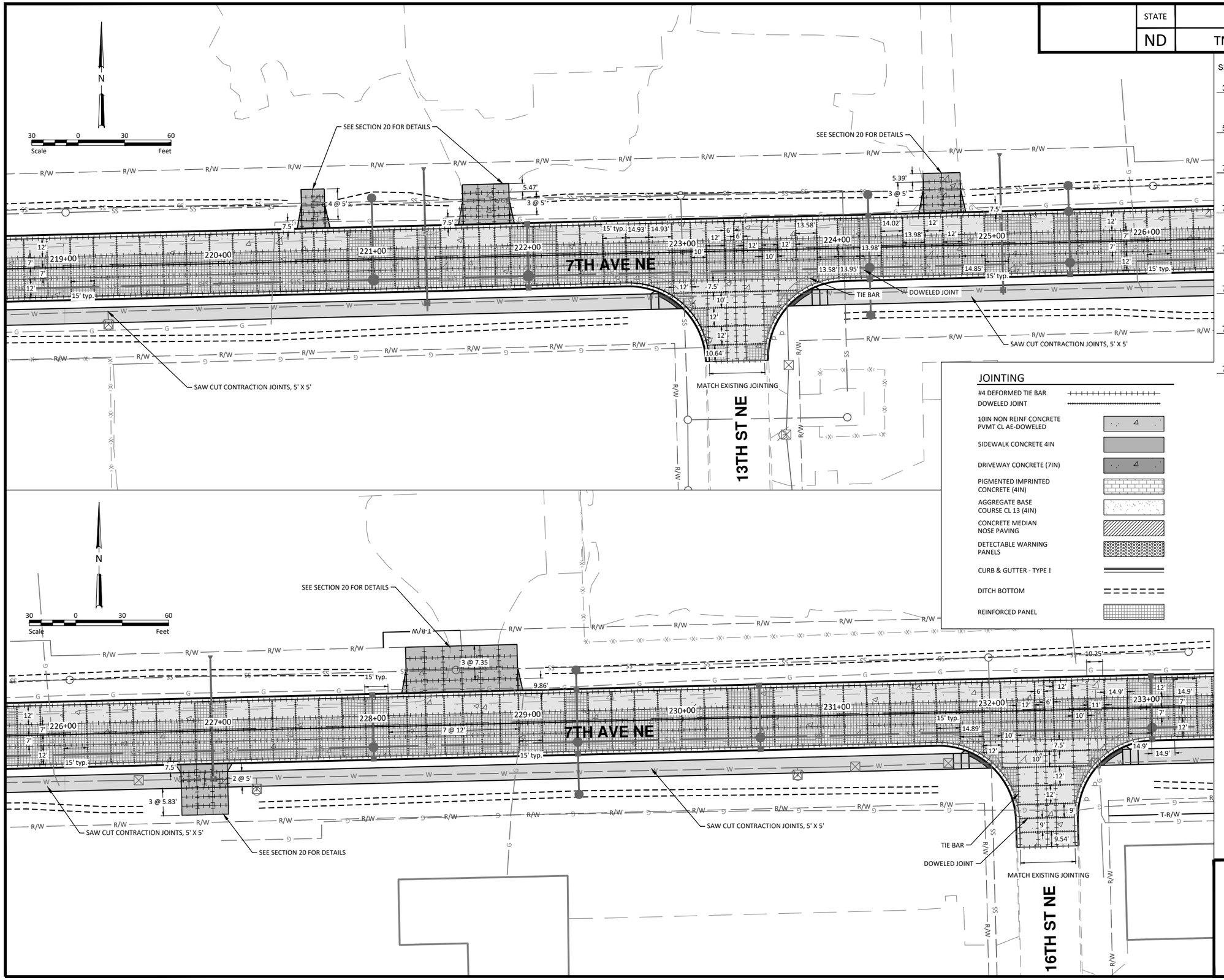
8/13/2025

Jointing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	90	6



JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- AGGREGATE BASE COURSE CL 13 (4IN)
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL

SPEC	CODE	BID ITEM	QTY	UNIT
302	101	SALVAGED BASE AGGREGATE		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	1326	CY
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	1358	CY
550	310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	3292	SY
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	3356	SY
709	151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	3828	SY
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	3902	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	1400	LF
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	1400	LF
748	140	CURB & GUTTER-TYPE I		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	1416	LF
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	1452	LF
750	125	SIDEWALK CONCRETE 5IN		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	689	SY
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	656	SY
750	1000	DRIVEWAY CONCRETE		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	209	SY
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	351	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 219+00 to Sta 226+00 (Pr_7thAve)	66	SF
		Sta 226+00 to Sta 233+00 (Pr_7thAve)	67	SF

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/13/2025

Jointing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	90	7

CITY OF WEST FARGO

CITY OF FARGO

CITY LIMITS
STA 236+54.71 (7th AVE NE)

SEE SECTION 20 FOR DETAILS

7TH AVE NE

DOWELED JOINT

TIE BAR

SAW CUT CONTRACTION JOINTS, 5' X 5'

N

30 0 30 60
Scale Feet

SEE SECTION 20 FOR DETAILS

7TH AVE NE

TIE BAR

DOWELED JOINT

SAW CUT CONTRACTION JOINTS, 5' X 5'

JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- AGGREGATE BASE COURSE CL 13 (4IN)
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

SPEC	CODE	BID ITEM	QTY	UNIT
302	101	SALVAGED BASE AGGREGATE		
(West Fargo)		Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	668	CY
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	650	CY
(Fargo)		Sta 240+00 to Sta 247+00 (Pr_7thAve)	1210	CY
302	356	AGGREGATE SURFACE COURSE CL 13		
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	18	TON
550	310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED		
(West Fargo)		Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	1671	SY
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	1622	SY
(Fargo)		Sta 240+00 to Sta 247+00 (Pr_7thAve)	2956	SY
709	151	GEOSYNTHETIC MATERIAL TYPE R1		
(West Fargo)		Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	1940	SY
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	1874	SY
(Fargo)		Sta 240+00 to Sta 247+00 (Pr_7thAve)	3496	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
(West Fargo)		Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	709	LF
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	691	LF
(Fargo)		Sta 240+00 to Sta 247+00 (Pr_7thAve)	1400	LF
748	120	CURB & GUTTER MOUNTABLE-TYPE I		
(West Fargo)		Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	37	LF
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	82	LF
748	140	CURB & GUTTER-TYPE I		
(West Fargo)		Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	670	LF
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	611	LF
(Fargo)		Sta 240+00 to Sta 247+00 (Pr_7thAve)	1400	LF
750	125	SIDEWALK CONCRETE 5IN		
(West Fargo)		Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	387	SY
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	322	SY
(Fargo)		Sta 240+00 to Sta 247+00 (Pr_7thAve)	778	SY
750	1000	DRIVEWAY CONCRETE		
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	71	SY
(Fargo)		Sta 240+00 to Sta 247+00 (Pr_7thAve)	61	SY
750	2115	DETECTABLE WARNING PANELS		
(West Fargo)		Sta 233+00 to Sta 236+54.71 (Pr_7thAve)	39	SF
(Fargo)		Sta 236+54.71 to Sta 240+00 (Pr_7thAve)	35	SF

CITY OF WEST FARGO

HOUSTON engineering, inc.

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DATE
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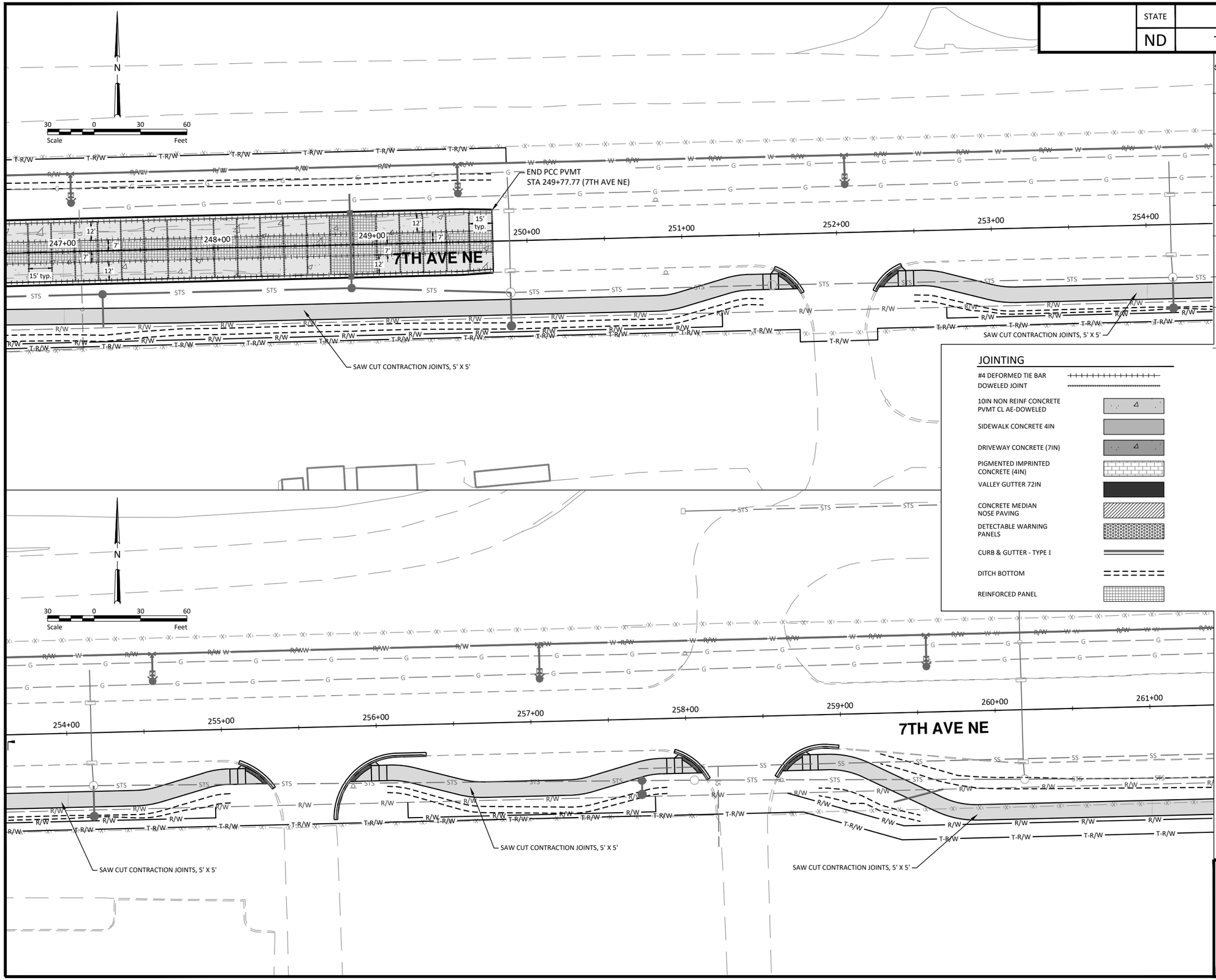
8/13/2025

Jointing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	90	8



SPEC	CODE	BID ITEM	QTY	UNIT
302	101	SALVAGED BASE AGGREGATE		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	507	CY
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	60	CY
550	310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED		
		Sta 247+00 to Sta 249+77.77 (Pr_7thAve)	1171	SY
709	151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	1398	SY
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	42	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	556	LF
748	120	CURB & GUTTER MOUNTABLE-TYPE I		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	48	LF
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	187	LF
748	140	CURB & GUTTER-TYPE I		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	556	LF
750	125	SIDEWALK CONCRETE 5IN		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	715	SY
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	655	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 247+00 to Sta 254+00 (Pr_7thAve)	59	SF
		Sta 254+00 to Sta 261+00 (Pr_7thAve)	124	SF

JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- VALLEY GUTTER 72IN
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

CITY OF WEST FARGO

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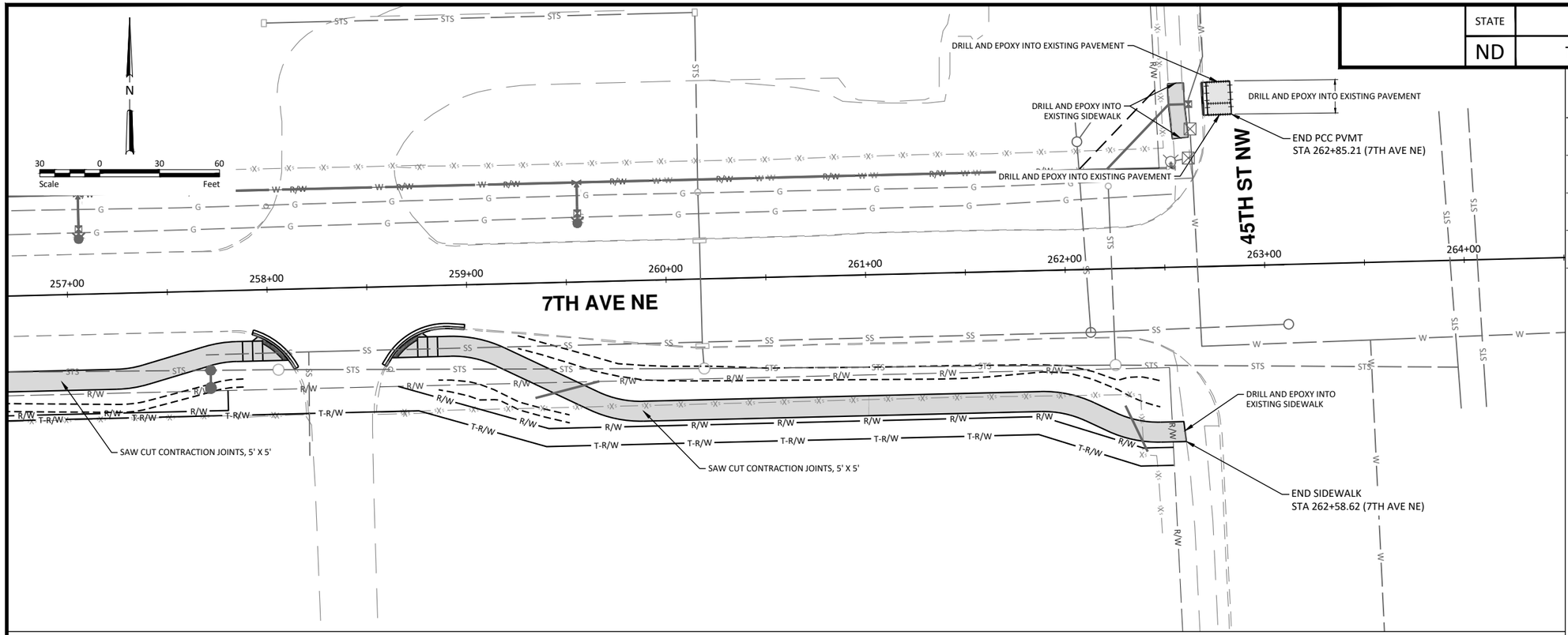
8/13/2025

Jointing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	90	9



SPEC	CODE	BID ITEM	QTY	UNIT
302	101	SALVAGED BASE AGGREGATE Sta 261+00 to Sta 262+85.21 (Pr_7thAve)	21	CY
550	310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta 261+00 to Sta 262+85.21 (Pr_7thAve)	22	SY
709	151	GEOSYNTHETIC MATERIAL TYPE R1 Sta 261+00 to Sta 262+85.21 (Pr_7thAve)	28	SY
748	140	CURB & GUTTER-TYPE I Sta 261+00 to Sta 262+85.21 (Pr_7thAve)	16	LF
750	125	SIDEWALK CONCRETE 5IN Sta 261+00 to Sta 262+85.21 (Pr_7thAve)	216	SY

JOINTING

- #4 DEFORMED TIE BAR
- DOWELED JOINT
- 10IN NON REINF CONCRETE PVMT CL AE-DOWELED
- SIDEWALK CONCRETE 4IN
- DRIVEWAY CONCRETE (7IN)
- PIGMENTED IMPRINTED CONCRETE (4IN)
- AGGREGATE BASE COURSE CL 13 (4IN)
- CONCRETE MEDIAN NOSE PAVING
- DETECTABLE WARNING PANELS
- CURB & GUTTER - TYPE I
- DITCH BOTTOM
- REINFORCED PANEL

*SEE SECTION 55 FOR EDGEDRAIN LOCATION

CITY OF WEST FARGO

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8/13/2025

Jointing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	100	1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. 1	2	3	4	5	TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE							35	
G20-1-60	60"x24"	ROAD WORK NEXT __ MILES							28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)							18	
G20-2-48	**48"x24"**	**END ROAD WORK**				**2**	**4**	**4**	**26**	**104**
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)							18	
G20-4b-36	36"x30"	WAIT FOR PILOT CAR							18	
G20-50a-72	72"x36"	ROAD WORK NEXT __ MILES RT & LT ARROWS							43	
G20-52a-72	72"x24"	ROAD WORK NEXT __ MILES RT or LT ARROW							36	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE $150 WHEN WORKERS PRESENT							59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)							11	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)							10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)							10	
M3-1-24	**24"x12"**	**NORTH (Mounted on route marker post)**	**14**	**14**	**14**		**12**	**14**	**7**	**98**
M3-2-24	**24"x12"**	**EAST (Mounted on route marker post)**	**13**		**10**	**10**		**13**	**7**	**91**
M3-3-24	**24"x12"**	**SOUTH (Mounted on route marker post)**	**14**	**12**	**14**		**14**	**14**	**7**	**98**
M3-4-24	**24"x12"**	**WEST (Mounted on route marker post)**	**14**		**12**	**11**		**14**	**7**	**98**
M4-8-24	**24"x12"**	**DETOUR (Mounted on route marker post)**	**55**	**26**	**50**	**21**	**26**	**55**	**7**	**385**
M4-9-30	**30"x24"**	**DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT**	**10**					**10**	**15**	**150**
M4-10-48	**48"x18"**	**DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)**	**4**	**2**	**4**	**2**	**2**	**4**	**7**	**28**
M5-1-21	**21"x15"**	**ADVANCE TURN ARROW RT or LT(Mounted on route marker post)**	**24**	**10**	**19**	**7**	**10**	**24**	**7**	**168**
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)							9	
M5-3-21	**21"x15"**	**ARROW AROUND ROUNDABOUT LT (Mounted on route marker post)**		**1**	**2**	**1**	**1**	**2**	**7**	**14**
M6-1-21	**21"x15"**	**DIRECTIONAL ARROW RT or LT (Mounted on route marker post)**	**24**	**9**	**17**	**7**	**9**	**24**	**7**	**168**
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)							9	
M6-2-21	**21"x15"**	**DIRECTIONAL ARROW DIAGONAL RT or LT (Mounted on route marker post)**		**2**	**4**	**2**	**2**	**4**	**7**	**28**
M6-3-21	**21"x15"**	**DIRECTIONAL ARROW UP (Mounted on route marker post)**	**7**	**3**	**5**	**2**	**3**	**7**	**7**	**49**
R1-1-48	48"x48"	STOP							32	
R1-2-60	60"x60"	YIELD							29	
R2-1-36	**36"x48"**	**SPEED LIMIT __ (Portable only)**				**4**	**4**	**4**	**30**	**120**
R2-1-48	48"x60"	SPEED LIMIT __							39	
R2-1aP-24	**24"x18"**	**MINIMUM FEE $150 (Mounted on Speed Limit post)**				**2**	**2**	**2**	**10**	**20**
R3-2-48	**48"x48"**	**NO LEFT TURN**					**1**	**1**	**35**	**35**
R4-1-48	48"x60"	DO NOT PASS							39	
R4-7-48	48"x60"	KEEP RIGHT							39	
R5-1-48	48"x48"	DO NOT ENTER							35	
R6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)							14	
R7-1-12	12"x18"	NO PARKING ANY TIME							11	
R9-9-24	**24"x12"**	**SIDEWALK CLOSED (Mounted on barricade)**		**1**	**1**	**5**	**3**	**5**	**3**	**15**
R9-11-24	**24"x12"**	**SIDEWALK CLOSED AHEAD CROSS HERE (Mounted on barricade)**					**2**	**2**	**3**	**6**
R9-11a-24	**24"x12"**	**SIDEWALK CLOSED CROSS HERE (Mounted on barricade)**	**2**				**2**	**2**	**3**	**6**
R10-6-24	24"x36"	STOP HERE ON RED							16	
R11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)							12	
R11-2a-48	**48"x30"**	**STREET CLOSED (Mounted on barricade)**	**4**	**2**	**4**	**4**	**2**	**4**	**12**	**48**
R11-3a-60	60"x30"	ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)							15	
R11-3c-60	60"x30"	STREET CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)							15	
R11-4a-60	**60"x30"**	**STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)**	**4**	**4**	**4**	**3**	**2**	**4**	**15**	**60**
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT							35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT							35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT							35	
W1-6-48	**48"x24"**	**ONE DIRECTION LARGE ARROW**					**1**	**1**	**26**	**26**
W3-1-48	48"x48"	STOP AHEAD							35	
W3-3-48	48"x48"	SIGNAL AHEAD							35	
W3-4-48	48"x48"	BE PREPARED TO STOP							35	
W3-5-48	**48"x48"**	**SPEED REDUCTION AHEAD**				**2**	**2**	**2**	**35**	**70**
W4-2-48	**48"x48"**	**LANE ENDS RIGHT or LEFT**				**2**	**2**	**2**	**35**	**70**
W5-1-48	48"x48"	ROAD NARROWS							35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE							35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW							35	
W6-3-48	48"x48"	TWO WAY TRAFFIC							35	
W8-1-48	48"x48"	BUMP							35	
W8-3-48	48"x48"	PAVEMENT ENDS							35	
W8-7-48	48"x48"	LOOSE GRAVEL							35	
W8-11-48	48"x48"	UNEVEN LANES							35	
W8-12-48	48"x48"	NO CENTER LINE							35	
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL							35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY							35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or __ FT or _ MILE							35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or __ FT or _ MILE							35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY							35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL							35	
W13-1P-30	30"x30"	__ MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)							14	
W14-3-64	64"x48"	NO PASSING ZONE							28	
W16-2P-30	30"x24"	__ FEET PLAQUE (Mounted on warning sign post)							10	
W16-9p-30	**30"x18"**	**AHEAD (Mounted on pedestrian sign post)**				**1**		**1**	**11**	**11**
W20-1-48	**48"x48"**	**ROAD WORK AHEAD or _FT or _ MILE**				**2**	**4**	**4**	**35**	**140**
W20-2-48	**48"x48"**	**DETOUR AHEAD or __ FT or _ MILE**	**20**	**14**	**20**	**10**	**14**	**20**	**35**	**700**
W20-3-48	**48"x48"**	**ROAD or STREET CLOSED AHEAD or __ FT or _ MILE**	**4**	**2**	**3**	**1**	**2**	**4**	**35**	**140**
W20-4-48	**48"x48"**	**ONE LANE ROAD AHEAD or __ FT or _ MILE**		**2**		**2**		**2**	**35**	**70**
W20-5-48	**48"x48"**	**RIGHT or CENTER or LEFT LANE CLOSED AHEAD or __ FT or _ MILE**				**2**	**2**	**2**	**35**	**70**
W20-7-48	**48"x48"**	**FLAGGER**		**2**		**2**		**2**	**35**	**70**
W20-8-18	**18"x18"**	**STOP - SLOW PADDLE Back to Back**		**2**		**2**		**2**	**5**	**10**
W20-52P-54	54"x12"	NEXT __ MILES (Mounted on warning sign post)							12	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. 1	2	3	4	5	TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
W21-1-48	48"x48"	WORKERS							35	
W21-2-48	48"x48"	FRESH OIL							35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or __ FT or _ MILE							35	
W21-5-48	48"x48"	SHOULDER WORK							35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED							35	
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or __ FT or _ MILE							35	
W21-6-48	48"x48"	SURVEY CREW							35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or __ FT							35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY							35	
W21-52-48	48"x48"	PAVEMENT BREAKS							35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD							35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK							35	
W24-1-48	48"x48"	DOUBLE REVERSE CURVE							35	

SPECIAL SIGNS

CONSIGN 1	**12"x12"**	**9TH ST NE**	**28**	**26**	**28**		**26**	**28**	**7**	**196**
CONSIGN 2	**12"x12"**	**7TH AVE NE**			**22**	**21**		**22**	**7**	**154**
CONSIGN 3	**12"x12"**	**12TH AVE NE**	**27**					**27**	**7**	**189**
CONSIGN 4	**21"x15"**	**ARROW THROUGH ROUNDABOUT (Mounted on route marker post)**		**1**	**3**	**2**	**1**	**3**	**7**	**21**

SPEC & CODE

704-1000	**TRAFFIC CONTROL SIGNS**	**TOTAL UNITS 3726**

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY BY PHASE NO. 1	2	3	4	5	TOTAL QUANTITY
704-0100	**FLAGGING**	MHR		**200**		**200**		**400**
704-1048	PORTABLE RUMBLE STRIPS	EACH						
704-1050	TYPE I BARRICADES	EACH						
704-1052	**TYPE III BARRICADES**	EACH	**16**	**10**	**16**	**14**	**14**	**16**
704-1054	**SIDEWALK BARRICADE**	EA	**2**	**1**	**1**	**5**	**6**	**6**
704-1056	**PEDESTRIAN CHANNELIZATION**	LF	**1827**			**200**		**1827**
704-1060	**DELINEATOR DRUMS**	EACH				**22**	**46**	**46**
704-1065	TRAFFIC CONES	EACH						
704-1067	**TUBULAR MARKERS**	EACH					**19**	**19**
704-1070	DELINEATOR	EACH						
704-1072	FLEXIBLE DELINEATORS	EACH						
704-1080	STACKABLE VERTICAL PANELS	EACH						
704-1081	VERTICAL PANELS - BACK TO BACK	EACH						
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH						
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH						
704-1087	**SEQUENCING ARROW PANEL - TYPE C**	EACH				**1**	**1**	**1**
704-1500	OBLITERATION OF PVMT MK	SF						
704-2108	**TEMPORARY CURB RAMP**	EA	**2**			**1**		**2**
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF						
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH						
762-0200	RAISED PAVEMENT MARKERS	EACH						
762-0420	SHORT TERM 4IN LINE - TYPE R	LF						
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF						

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
http://www.dot.nd.gov/

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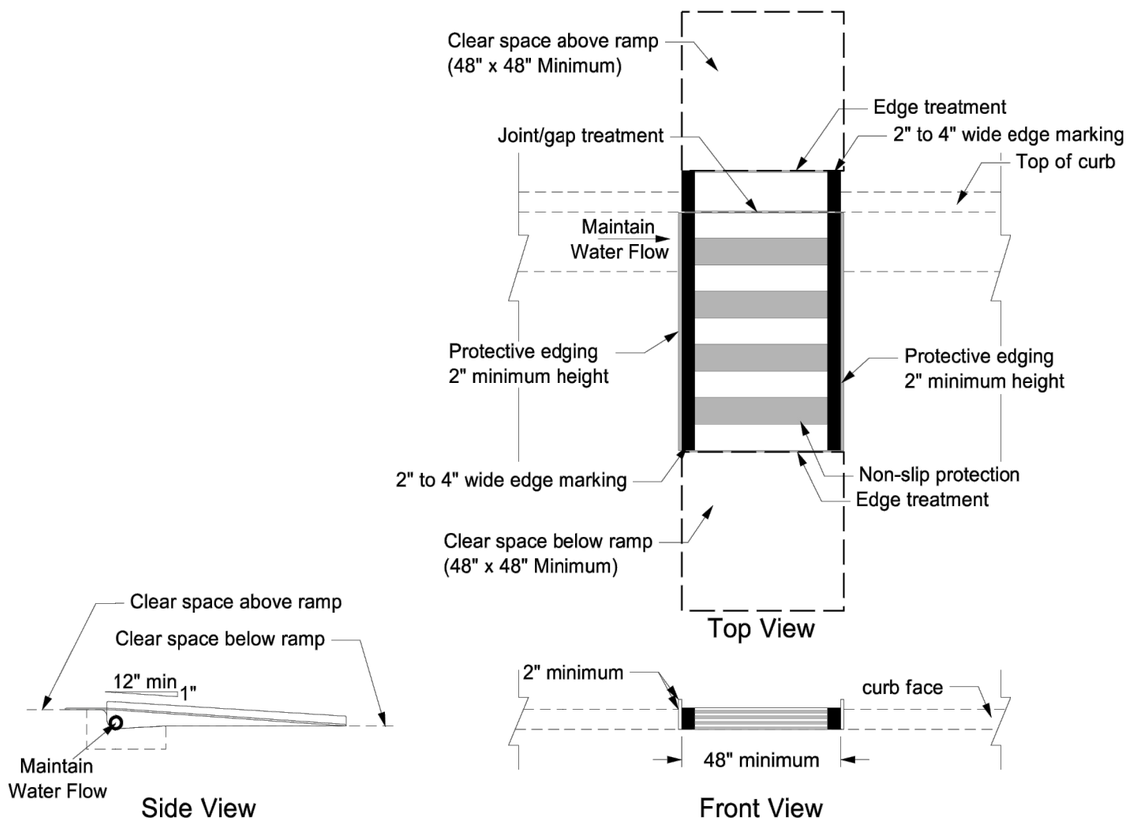
8/1/2025

Traffic Control Devices List

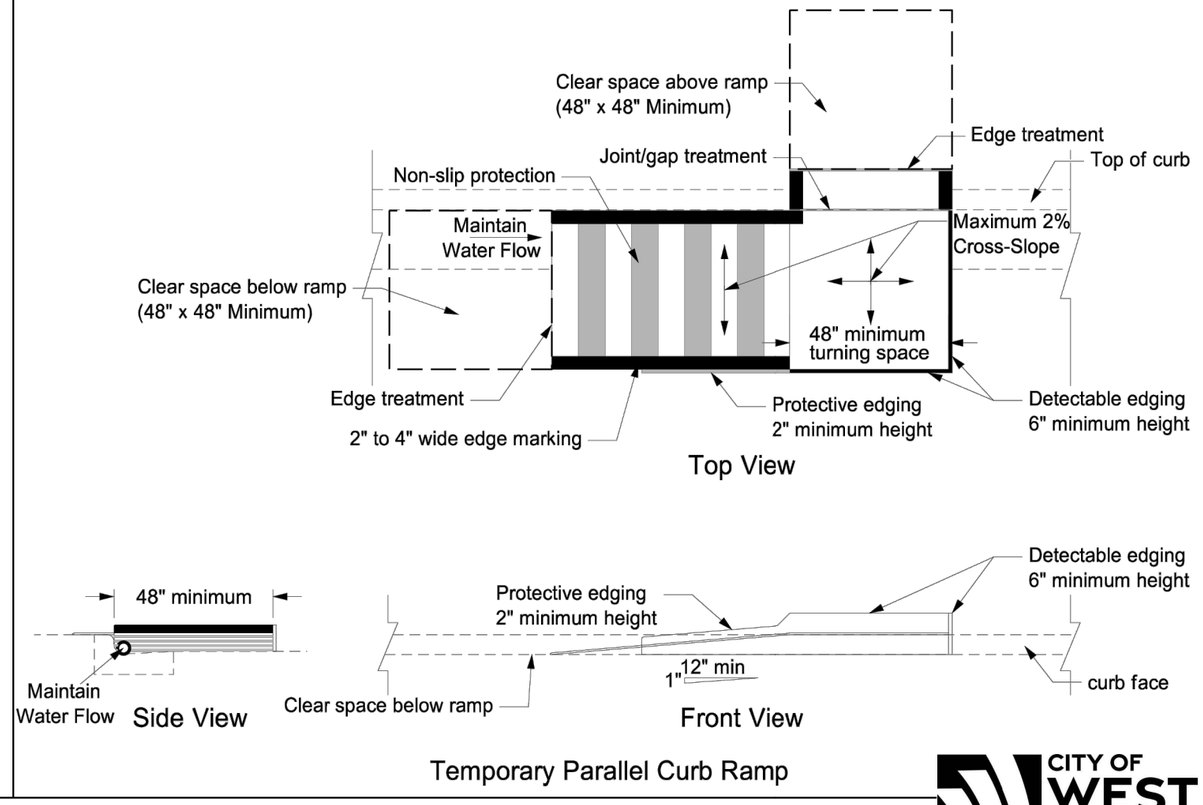
9th St NE from Main Ave to 12th Ave N

7th Ave NE from 9th St NE to 45th St N

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	2

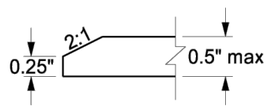


Temporary Perpendicular Curb Ramp



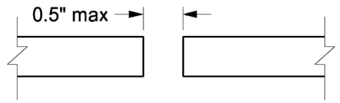
Temporary Parallel Curb Ramp

Edge Treatment



Maximum Surface
Height Change Detail

Joint/Gap Treatment



Maximum Width
Lateral Joints or Gaps

CITY OF WEST FARGO

HOUSTON engineering, inc.

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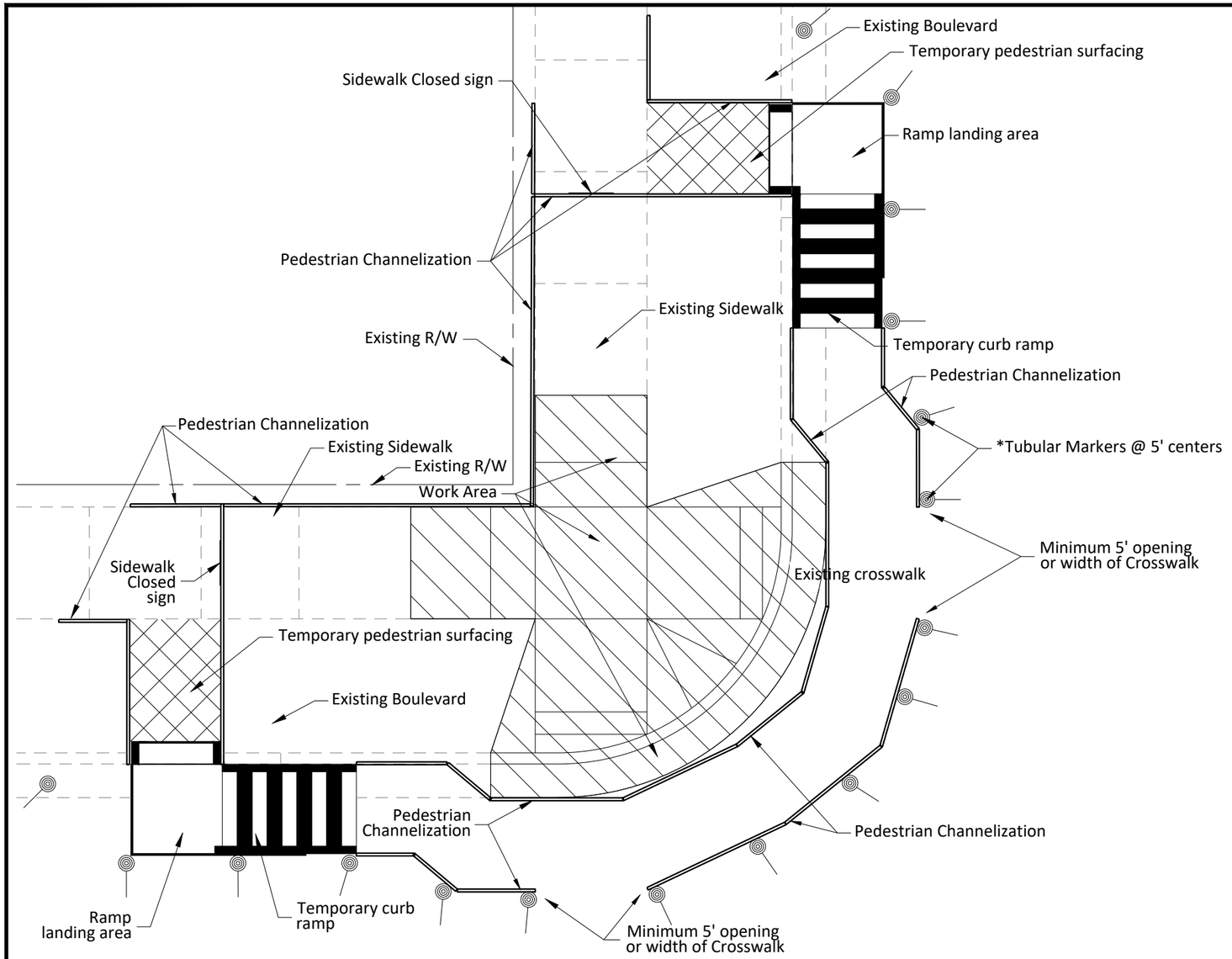
Temporary Pedestrian Curb Ramp Details

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th ST\CAD\0_CITY PROJECT\Plans\100 - Traffic Control Details.dwg-Temporary Curb Ramp Detail-8/1/2025 11:08 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	3

*NOTE: Eliminate tubular markers if pedestrian channelization is retro-reflective



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PE-10407
DATE
NORTH DAKOTA

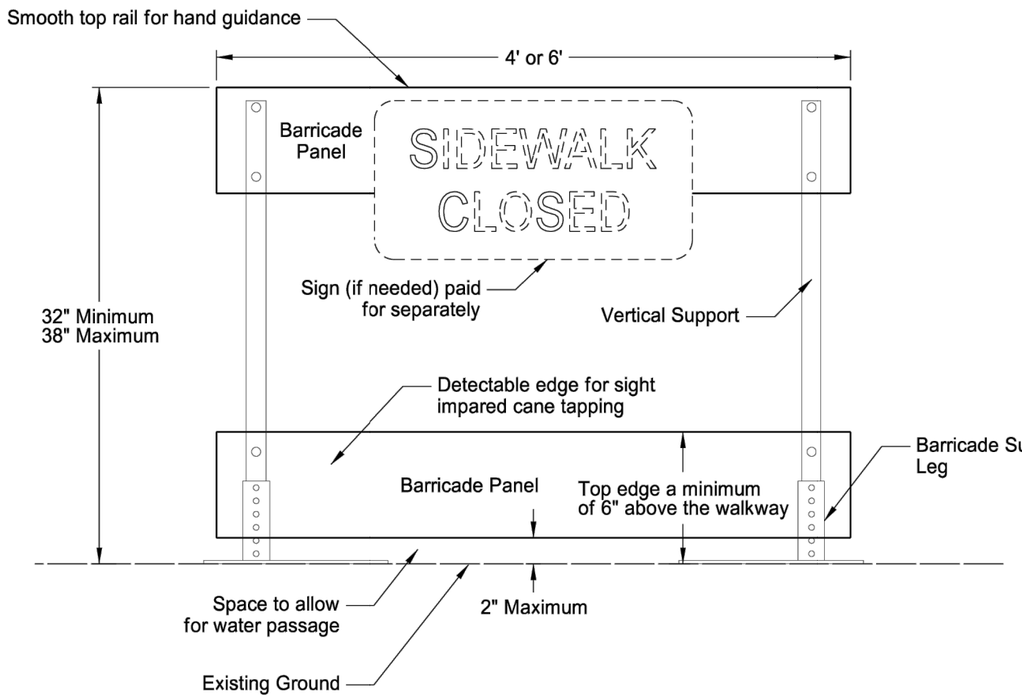
8/1/2025

Temporary Pedestrian Access Route

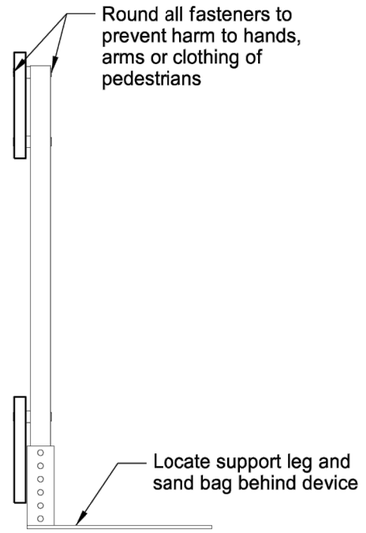
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control Details.dwg-Temporary Pedestrian Access Detail-8/1/2025 11:08 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	4



Front View

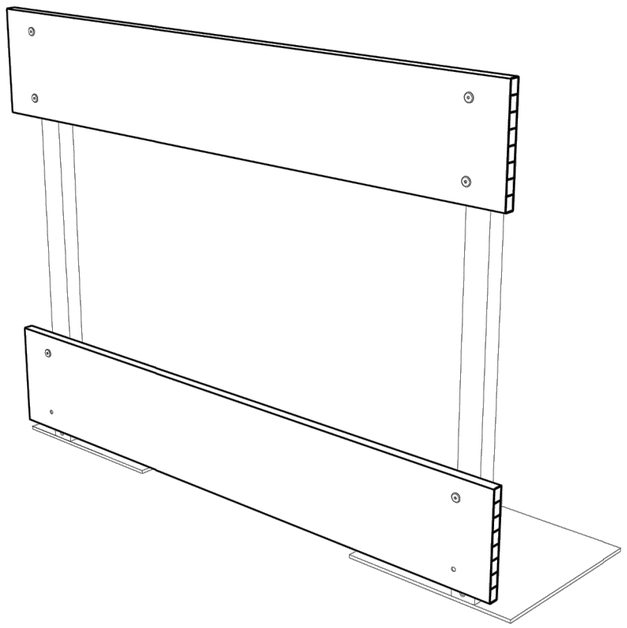


End View

NOTES:

Sidewalk Barricades

1. Provide self standing sidewalk barricade with no supports extending into the pedestrians path.
2. Use orange or orange and white diagonal striped barricade panels contrasting with the walkway surface.
3. Provide ADA compliant and NCHRP 350 or Mash Test Level 3 (TL3) approved sidewalk barricades.
4. Include all costs to furnish, maintain and remove sidewalk barricades in the price bid for "Sidewalk Barricade".



Perspective View

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/1/2025

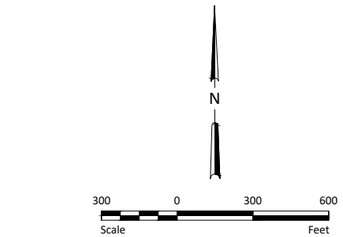
Sidewalk Barricade

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control Details.dwg-Sidewalk Barricade Detail-8/1/2025 11:08 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	5





PHASE 1A WORK ZONE
PHASE 1B WORK ZONE
PHASE 2 WORK ZONE
PHASE 3 WORK ZONE
PHASE 4 WORK ZONE
PHASE 5A WORK ZONE
PHASE 5B WORK ZONE
PHASE 5C WORK ZONE
EXCEPTION AREA

CITY OF WEST FARGO

HOUSTON engineering, inc.

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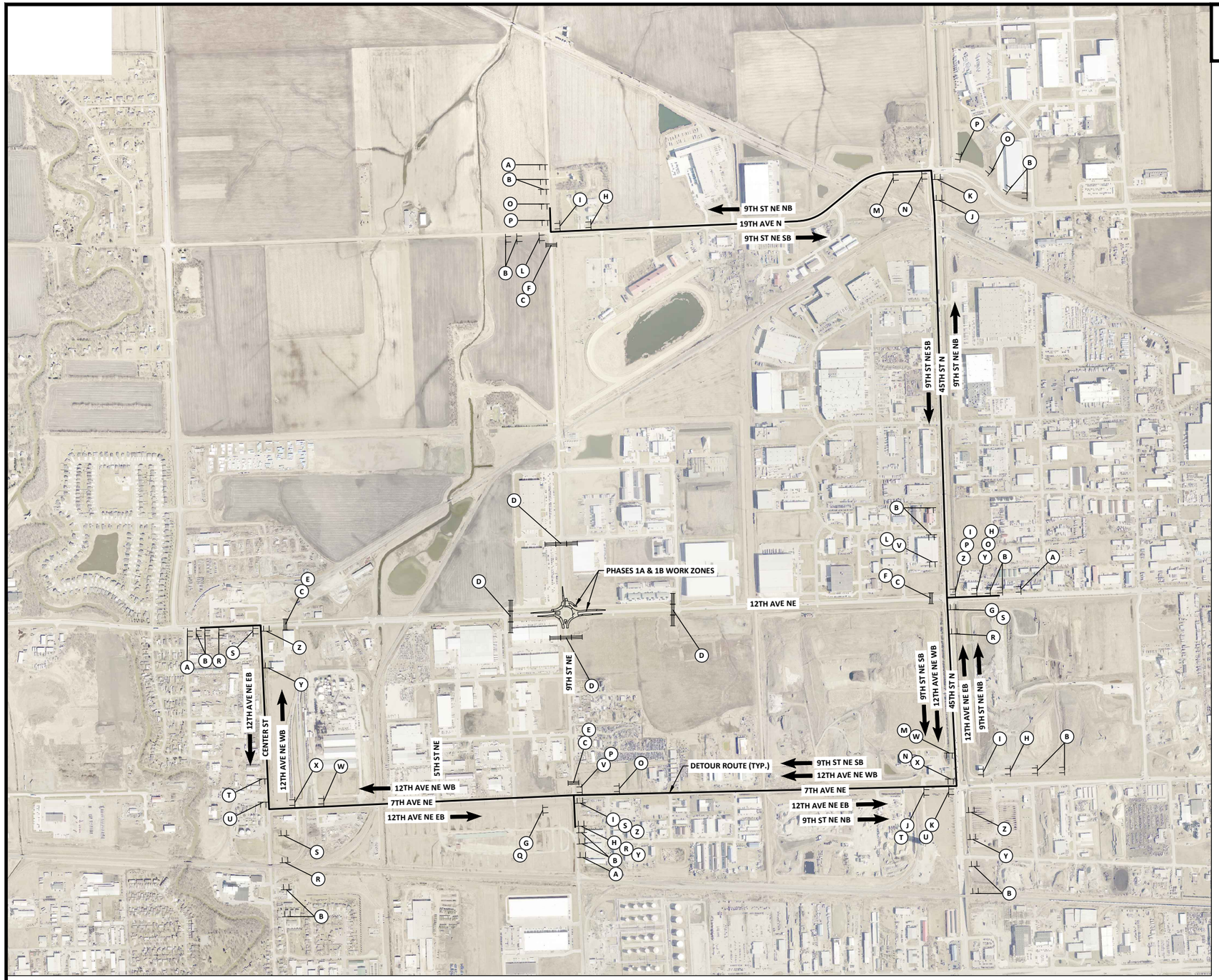
8/1/2025

Work Zone Traffic Control - Overall

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\BN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control - Overall.dwg-Overall-8/1/2025 11:08 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	6



(A) - 4 — STREET CLOSED AHEAD — W20-3-48 POST MOUNTED

(B) - 20 — DETOUR XXXX FT — W20-2-48 POST MOUNTED

(C) - 4 — STREET CLOSED TO THRU TRAFFIC — R11-4a-60 BARRICADE MOUNTED

(D) - 4 — STREET CLOSED — R11-2a-48 BARRICADE MOUNTED

(E) - 2 — DETOUR — M4-10R-48 BARRICADE MOUNTED

(F) - 2 — DETOUR — M4-10L-48 BARRICADE MOUNTED

N

750 0 750 1500
Scale Feet

(G) - 2 — DETOUR M4-8-24 / NORTH M3-1-24 / 9th St NE CONSIGN 1 / M6-3-21

(H) - 4 — DETOUR M4-8-24 / NORTH M3-1-24 / 9th St NE CONSIGN 1 / M5-1-21

(I) - 4 — DETOUR M4-8-24 / NORTH M3-1-24 / 9th St NE CONSIGN 1 / M6-1-21

(J) - 2 — DETOUR M4-8-24 / NORTH M3-1-24 / 9th St NE CONSIGN 1 / M5-1-21

(K) - 2 — DETOUR M4-8-24 / NORTH M3-1-24 / 9th St NE CONSIGN 1 / M6-1-21

(L) - 2 — DETOUR M4-8-24 / SOUTH M3-3-24 / 9th St NE CONSIGN 1 / M6-3-21

(M) - 2 — DETOUR M4-8-24 / SOUTH M3-3-24 / 9th St NE CONSIGN 1 / M5-1-21

(N) - 2 — DETOUR M4-8-24 / SOUTH M3-3-24 / 9th St NE CONSIGN 1 / M6-1-21

(O) - 4 — DETOUR M4-8-24 / SOUTH M3-3-24 / 9th St NE CONSIGN 1 / M5-1-21

(P) - 4 — DETOUR M4-8-24 / SOUTH M3-3-24 / 9th St NE CONSIGN 1 / M6-1-21

(Q) - 1 — DETOUR M4-8-24 / EAST M3-2-24 / 12th Ave NE CONSIGN 3 / M6-3-21

(R) - 4 — DETOUR M4-8-24 / EAST M3-2-24 / 12th Ave NE CONSIGN 3 / M5-1-21

(S) - 4 — DETOUR M4-8-24 / EAST M3-2-24 / 12th Ave NE CONSIGN 3 / M6-1-21

(T) - 2 — DETOUR M4-8-24 / EAST M3-2-24 / 12th Ave NE CONSIGN 3 / M5-1-21

(U) - 2 — DETOUR M4-8-24 / EAST M3-2-24 / 12th Ave NE CONSIGN 3 / M6-1-21

(V) - 2 — DETOUR M4-8-24 / WEST M3-4-24 / 12th Ave NE CONSIGN 3 / M6-3-21

(W) - 2 — DETOUR M4-8-24 / WEST M3-4-24 / 12th Ave NE CONSIGN 3 / M5-1-21

(X) - 2 — DETOUR M4-8-24 / WEST M3-4-24 / 12th Ave NE CONSIGN 3 / M6-1-21

(Y) - 4 — DETOUR M4-8-24 / WEST M3-4-24 / 12th Ave NE CONSIGN 3 / M5-1-21

(Z) - 4 — DETOUR M4-8-24 / WEST M3-4-24 / 12th Ave NE CONSIGN 3 / M6-1-21

CITY OF WEST FARGO

HOUSTON engineering, inc.

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TYPE III BARRICADE

SIGN

PHASE 1A WORK ZONE

PHASE 1B WORK ZONE

NOTES:

1. PHASE 1 IS FOR CONSTRUCTION OF THE 9TH ST NE AND 12TH AVE NE ROUNDABOUT.
2. SEE STANDARD DRAWING 704-21 FOR SIGN SPACING DETAILS.

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

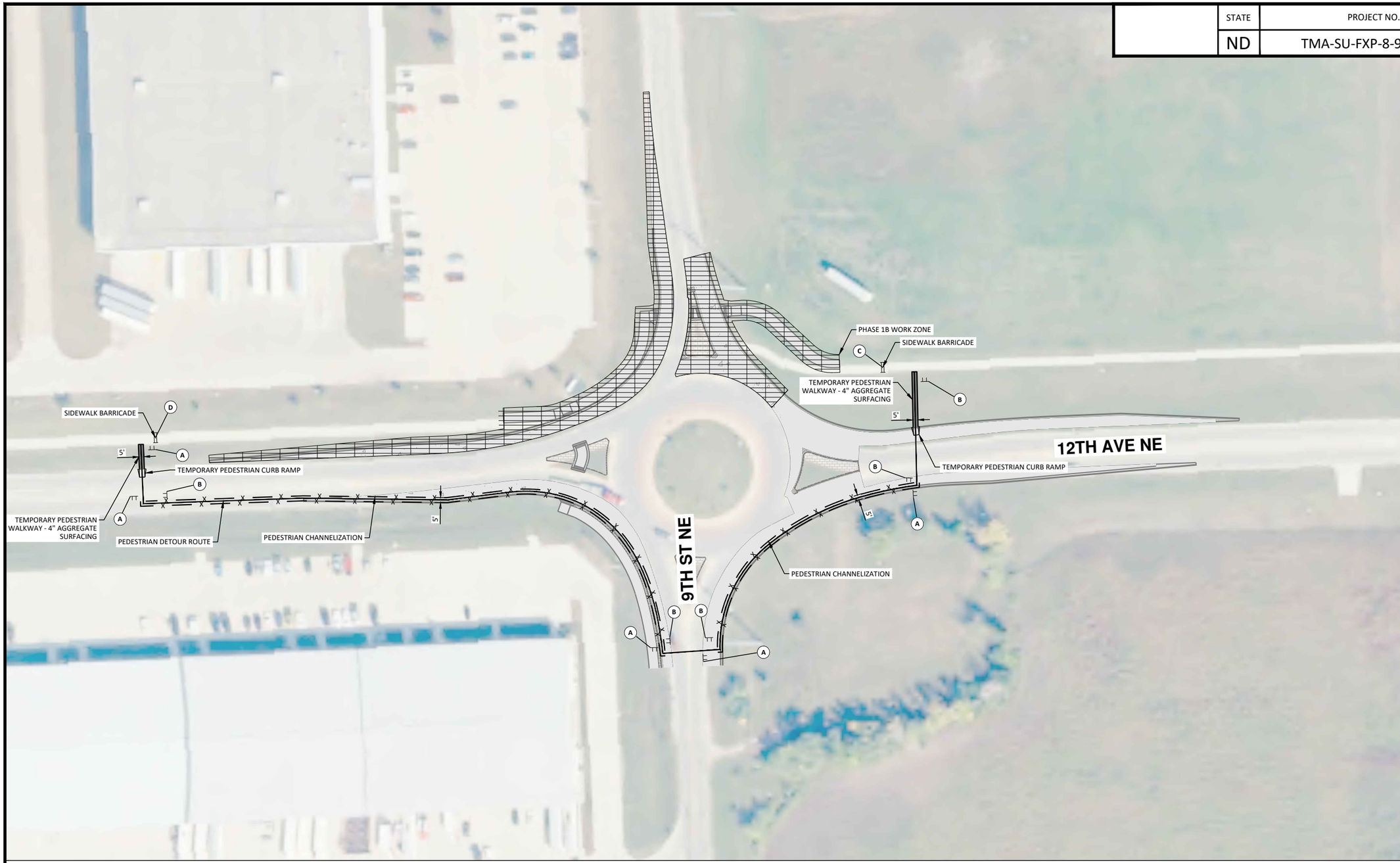
8/1/2025

Work Zone Traffic Control - Phase 1

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\BN\8600\86541\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control - 1.dwg Phase 1-8/1/2025 11:08 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	7



N

50 0 50 100

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/1/2025

Work Zone Pedestrian Traffic Control - Phase 1B

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

A - 5



M4-9(L)-30

B - 5



M4-9(R)-30

C - 1



R9-11aL-24
BARRICADE MOUNTED

D - 1



R9-11aR-24
BARRICADE MOUNTED

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK BARRICADE

SIGN

PHASE 1B WORK ZONE

TEMPORARY PEDESTRIAN WALKWAY

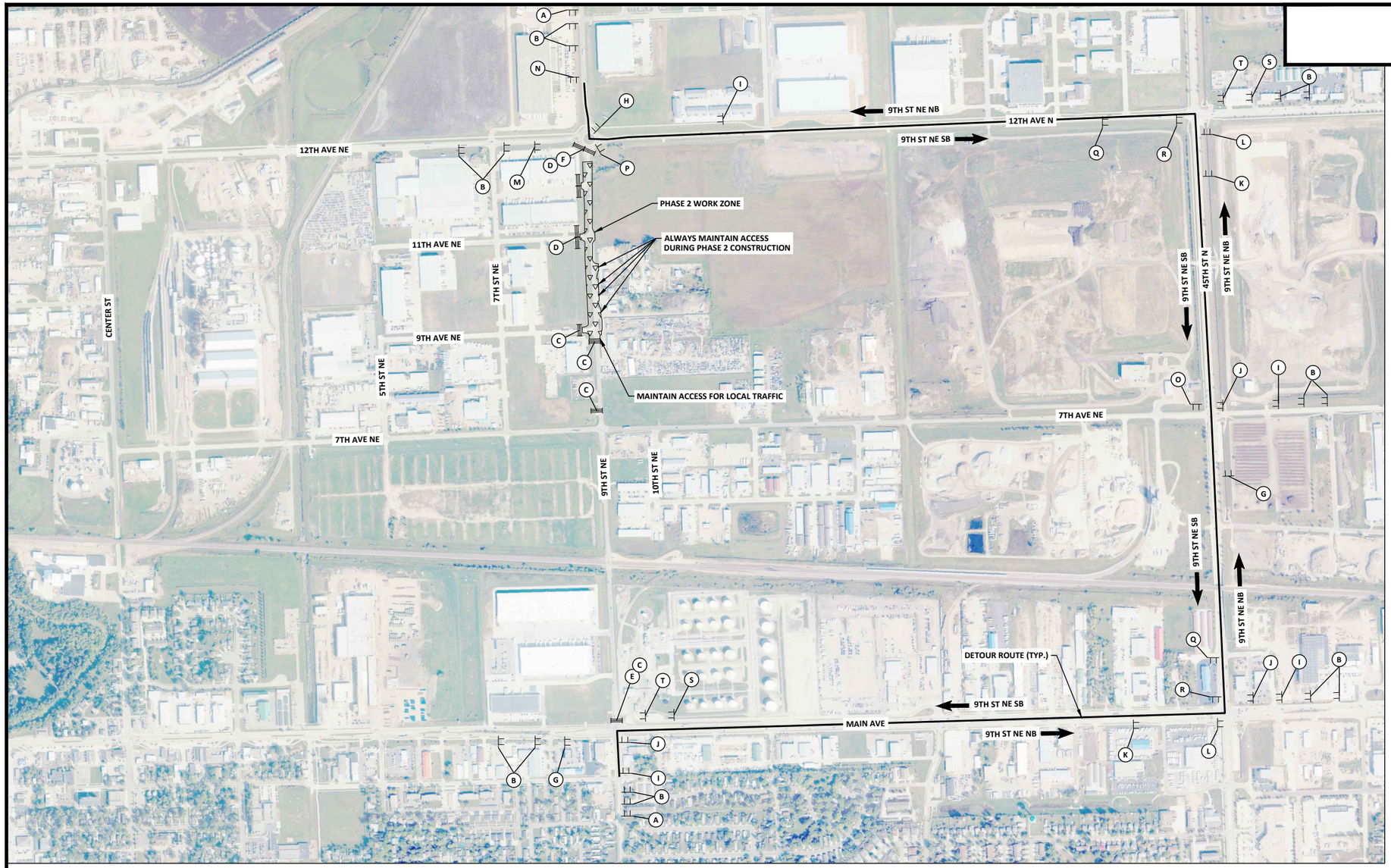
x PEDESTRIAN CHANNELIZATION

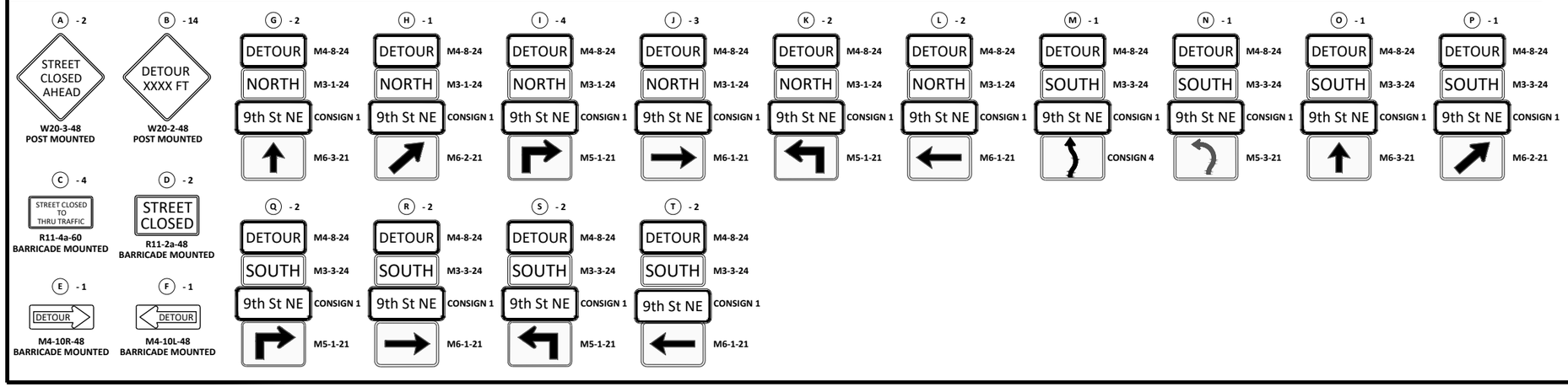
NOTES:

1. PHASE 1B IS FOR THE CONSTRUCTION OF THE NORTHWEST AND NORTH LEGS OF THE 9TH ST NE AND 12TH AVE NE ROUNDABOUT.
2. INCLUDE ALL COSTS TO CONSTRUCT TEMPORARY PEDESTRIAN WALKWAY, INCLUDING AGGREGATE SURFACING AND EMBANKMENT, IN THE PRICE BID FOR "PEDESTRIAN CHANNELIZATION."

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	8





N

500 0 500 1000
Scale Feet

TYPE III BARRICADE

SIGN

PHASE 2 WORK ZONE

NOTES:

1. PHASE 2 IS FOR THE CONSTRUCTION OF 9TH ST NE SOUTH OF THE 9TH ST NE AND 12TH AVE NE ROUNDABOUT THROUGH THE 9TH AVE NE APPROACH.
2. ACCESS TO THE BUSINESSES ALONG THE EAST SIDE OF 9TH ST NE MUST ALWAYS BE MAINTAINED DURING PHASE 2 CONSTRUCTION.
3. COVER OR REMOVE ANY 7TH AVE NE DETOUR SIGNS DURING THIS PHASE.
4. SEE STANDARD DRAWING 704-21 FOR SIGN SPACING DETAILS.

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

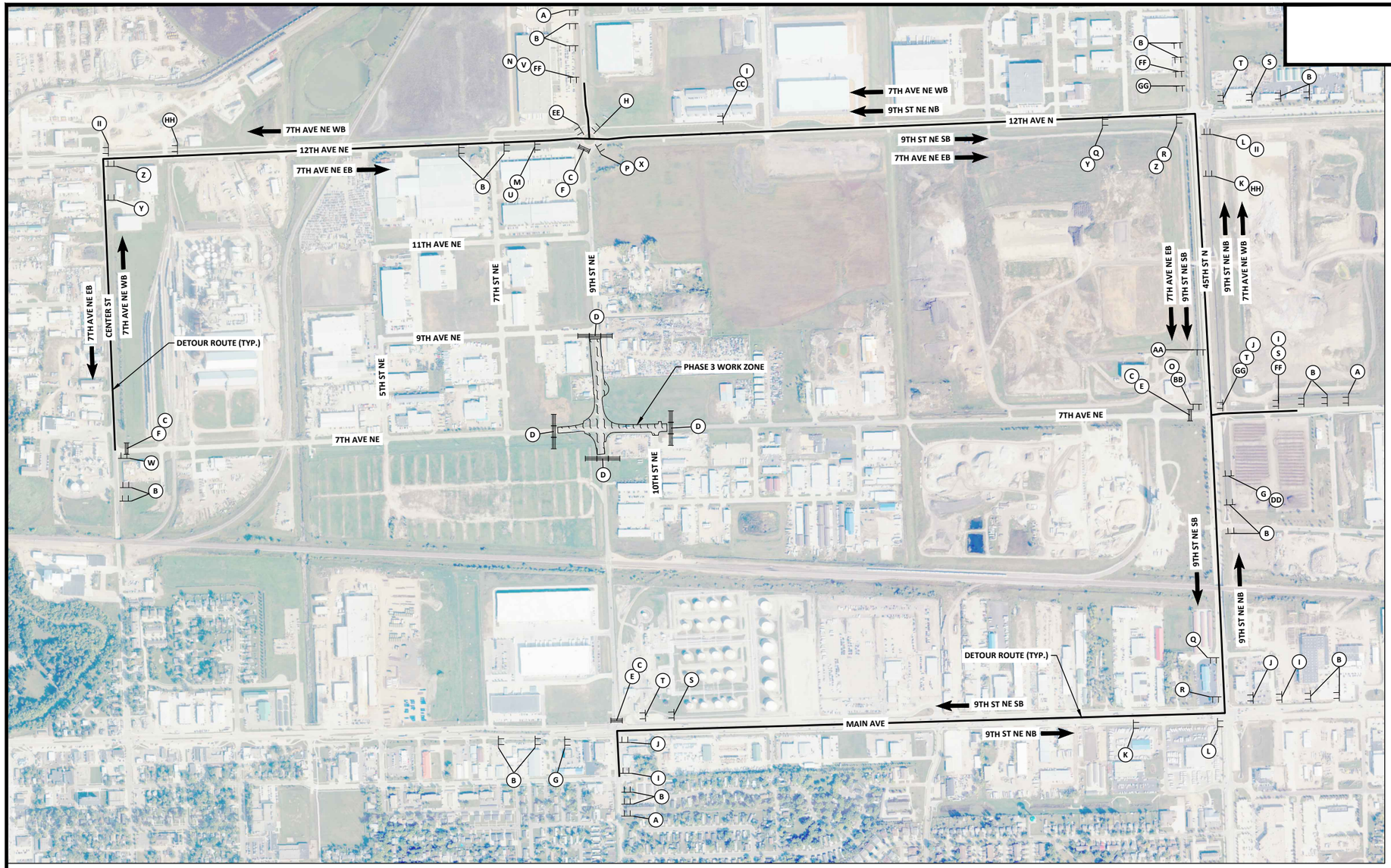
8/1/2025

Work Zone Traffic Control - Phase 2

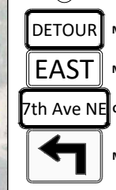
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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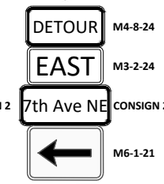
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	9



AA - 1



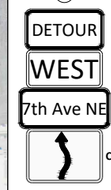
BB - 1



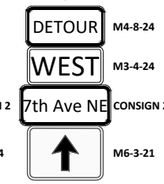
N

Scale 500 0 500 1000 Feet

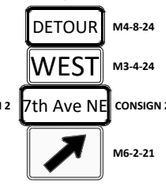
CC - 1



DD - 1



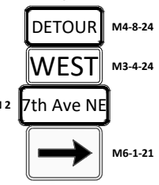
EE - 1



FF - 3



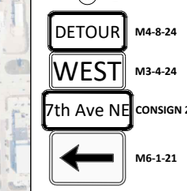
GG - 2



HH - 2



II - 2



CITY OF WEST FARGO

HOUSTON engineering, inc.

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TYPE III BARRICADE

SIGN

PHASE 3 WORK ZONE

NOTES:

1. PHASE 3 IS FOR THE CONSTRUCTION OF 9TH ST NE NORTH OF THE EXCEPTION AREA AND SOUTH OF 9TH AVE NE, THE 9TH ST NE AND 7TH AVE NE ROUNDABOUT, AND 7TH AVE NE EAST THROUGH THE 10TH ST NE APPROACH.
2. SEE STANDARD DRAWING 704-21 FOR SIGN SPACING DETAILS.

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

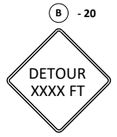
8/1/2025

A - 3



W20-3-48 POST MOUNTED

B - 20



W20-2-48 POST MOUNTED

C - 4



R11-4a-60 BARRICADE MOUNTED

D - 4



R11-2a-48 BARRICADE MOUNTED

E - 2



M4-10R-48 BARRICADE MOUNTED

F - 2



M4-10L-48 BARRICADE MOUNTED

G - 2



H - 1



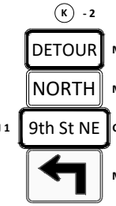
I - 4



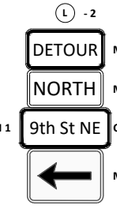
J - 3



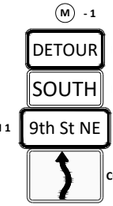
K - 2



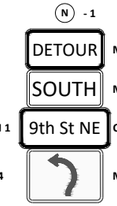
L - 2



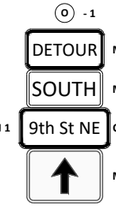
M - 1



N - 1



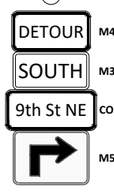
O - 1



P - 1



Q - 2



R - 2



S - 3



T - 3



U - 1



V - 1



W - 1



X - 1



Y - 2



Z - 2

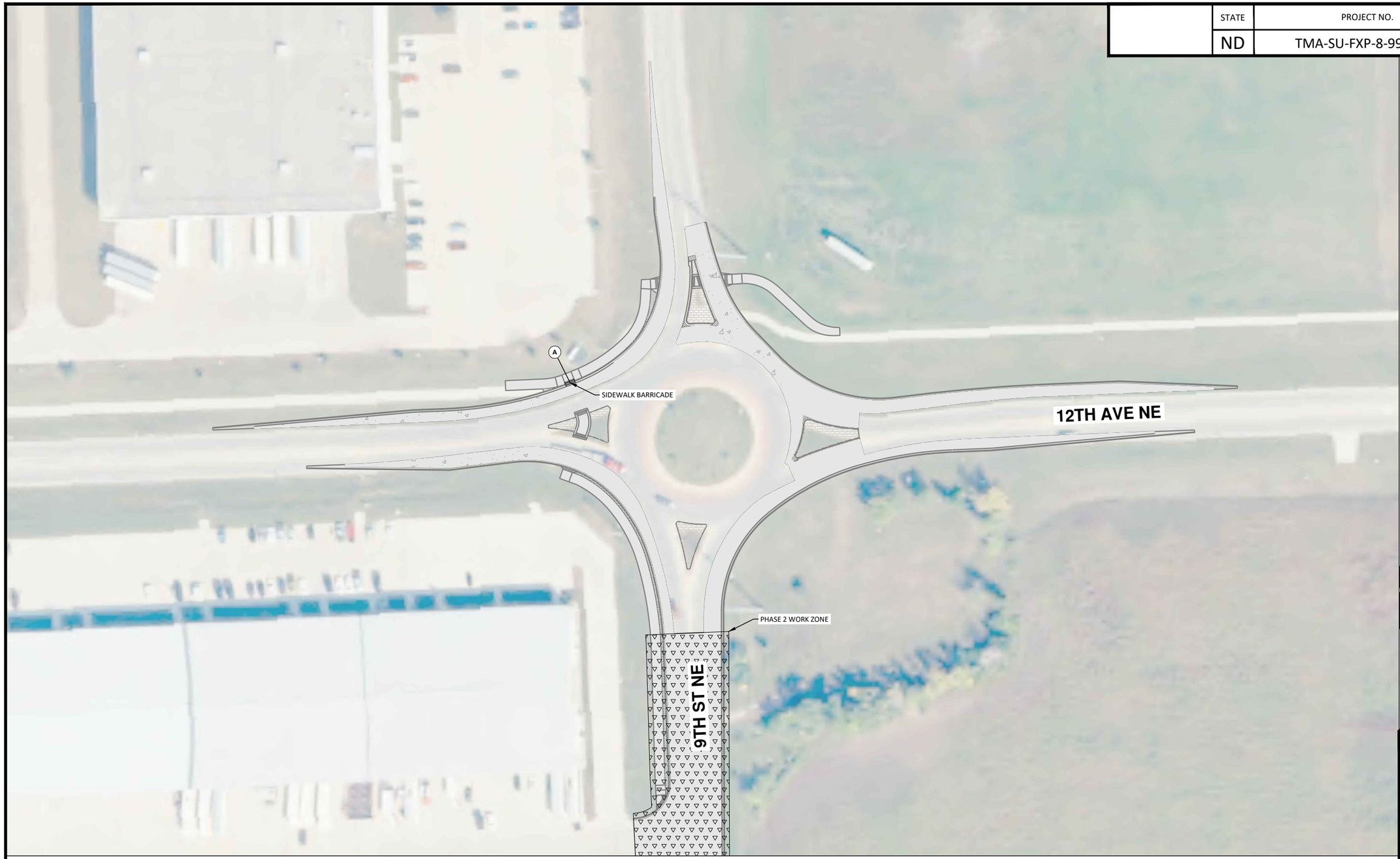


Work Zone Traffic Control - Phase 3

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\86541\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control - 3.dwg Phase 3 8/1/2025 11:09 AM (jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	10



N

50 0 50 100

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/1/2025

A - 1

SIDEWALK CLOSED

R9-9-24
BARRICADE MOUNTED

SIDEWALK BARRICADE

PHASE 2 WORK ZONE

NOTES:

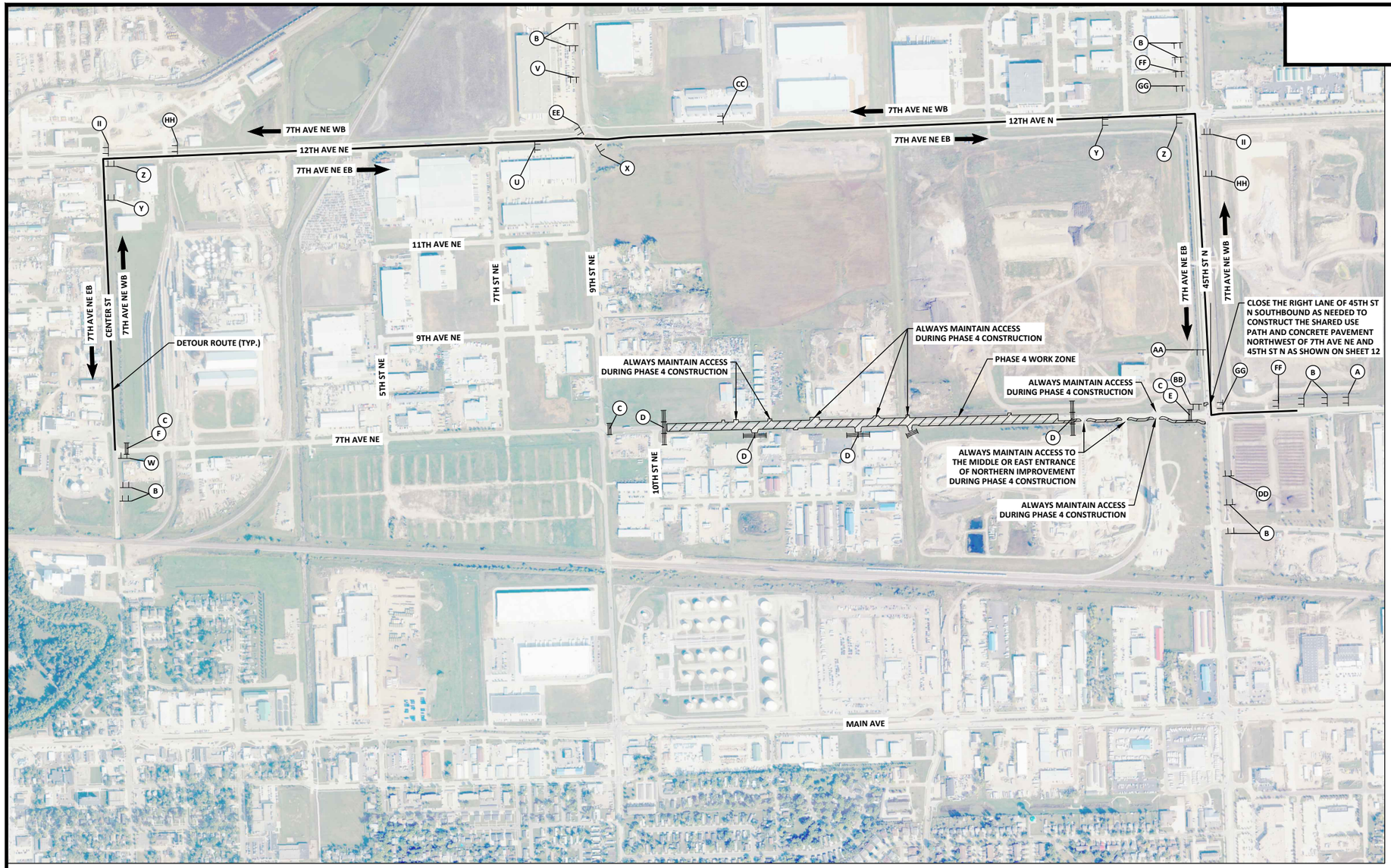
1. PHASES 2 AND 3 ARE FOR THE CONSTRUCTION OF 9TH ST NE NORTH OF THE EXCEPTION AREA AND SOUTH OF THE 9TH ST NE AND 12TH AVE NE ROUNDABOUT, THE 9TH ST NE AND 7TH AVE NE ROUNDABOUT, AND 7TH AVE NE EAST THROUGH THE 10TH ST NE APPROACH.

Work Zone Pedestrian Traffic Control - Phases 2 & 3

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\BN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control Ped - 2 & 3.dwg-Phase 2 & 3 Ped-8/1/2025 11:09 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	11



(AA) - 1
DETOUR M4-8-24
EAST M3-2-24
7th Ave NE CONSIGN 2
M5-1-21

(BB) - 1
DETOUR M4-8-24
EAST M3-2-24
7th Ave NE CONSIGN 2
M6-1-21

N

500 0 500 1000
Scale Feet

(CC) - 1
DETOUR M4-8-24
WEST M3-4-24
7th Ave NE CONSIGN 2
CONSIGN 4

(DD) - 1
DETOUR M4-8-24
WEST M3-4-24
7th Ave NE CONSIGN 2
M6-3-21

(EE) - 1
DETOUR M4-8-24
WEST M3-4-24
7th Ave NE CONSIGN 2
M6-2-21

(FF) - 2
DETOUR M4-8-24
WEST M3-4-24
7th Ave NE CONSIGN 2
M5-1-21

(GG) - 2
DETOUR M4-8-24
WEST M3-4-24
7th Ave NE
M6-1-21

(HH) - 2
DETOUR M4-8-24
WEST M3-4-24
7th Ave NE CONSIGN 2
M5-1-21

(II) - 2
DETOUR M4-8-24
WEST M3-4-24
7th Ave NE CONSIGN 2
M6-1-21

III TYPE III BARRICADE

SIGN

PHASE 4 WORK ZONE

CITY OF WEST FARGO

HOUSTON engineering, inc.

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NOTES:

1. PHASE 4 IS FOR THE CONSTRUCTION OF 7TH AVE NE EAST OF 10TH ST NE .
2. ACCESS TO THE BUSINESSES ALONG THE NORTH SIDE OF 7TH AVE NE, NORTHERN IMPROVEMENT, LAFARGE, AND THE FARGO CITY LANDFILL MUST ALWAYS BE MAINTAINED DURING PHASE 4A CONSTRUCTION.
3. COVER OR REMOVE ANY 9TH ST NE DETOUR SIGNS DURING THIS PHASE.
4. SEE STANDARD DRAWING 704-21 FOR SIGN SPACING DETAILS.

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/1/2025

(A) - 1
STREET CLOSED AHEAD
W20-3-48 POST MOUNTED

(B) - 10
DETOUR XXXX FT
W20-2-48 POST MOUNTED

(C) - 3
STREET CLOSED TO THRU TRAFFIC
R11-4a-60 BARRICADE MOUNTED

(D) - 4
STREET CLOSED
R11-2a-48 BARRICADE MOUNTED

(E) - 1
DETOUR
M4-10R-48 BARRICADE MOUNTED

(F) - 1
DETOUR
M4-10L-48 BARRICADE MOUNTED

(U) - 1
DETOUR M4-8-24
EAST M3-2-24
7th Ave NE CONSIGN 2
CONSIGN 4

(V) - 1
DETOUR M4-8-24
EAST M3-2-24
7th Ave NE CONSIGN 2
M5-3-21

(W) - 1
DETOUR M4-8-24
EAST M3-2-24
7th Ave NE CONSIGN 2
M6-3-21

(X) - 1
DETOUR M4-8-24
EAST M3-2-24
7th Ave NE CONSIGN 2
M6-2-21

(Y) - 2
DETOUR M4-8-24
EAST M3-2-24
7th Ave NE CONSIGN 2
M5-1-21

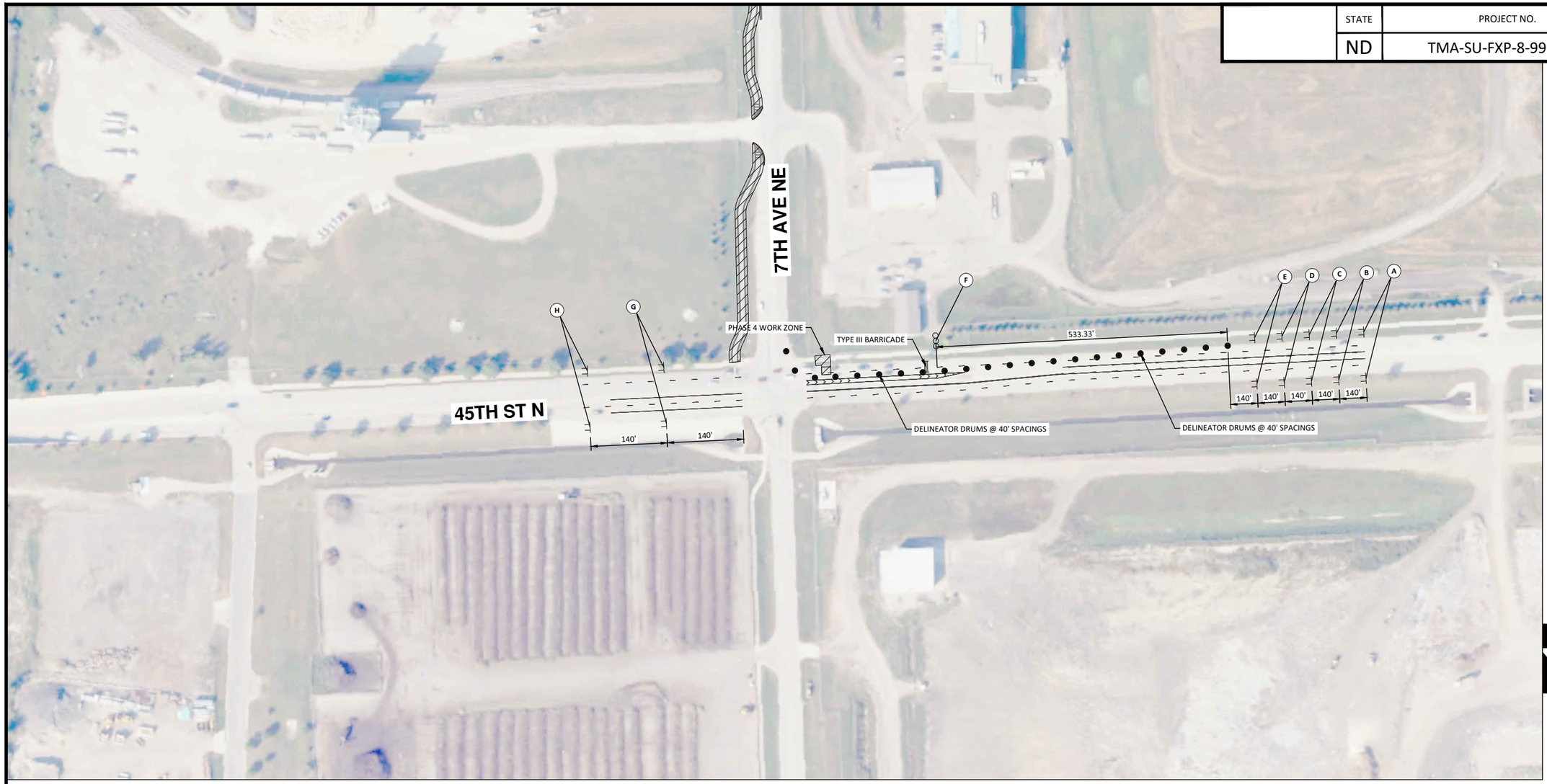
(Z) - 2
DETOUR M4-8-24
EAST M3-2-24
7th Ave NE CONSIGN 2
M6-1-21

Work Zone Traffic Control - Phase 4

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\86541\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control - 4.dwg Phase 4 8/1/2025 11:09 AM (jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	12



N

100 0 100 200
Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

A - 2 — ROAD WORK AHEAD — W20-1-48 PORTABLE

B - 2 — RIGHT LANE CLOSED 500 FT — W20-5-48 PORTABLE

C - 2 — SPEED LIMIT XX — W3-5-48 PORTABLE

D - 2 — SPEED LIMIT XX — R2-1-36 — MINIMUM FEE $150 — R2-1aP-24 PORTABLE

E - 2 — W4-2R-48 PORTABLE

F - 1 — SEQUENCING ARROW PANEL - TYPE C

G - 2 — SPEED LIMIT 40 — R2-1-36 PORTABLE

H - 2 — END ROAD WORK — G20-2-48 PORTABLE

- DELINEATOR DRUM
- SEQUENCING ARROW PANEL - TYPE C
- TYPE III BARRICADE
- SIGN
- PHASE 4 WORK ZONE

NOTES:

1. PHASE 4 IS FOR THE CONSTRUCTION OF 7TH AVE NE EAST OF 10TH ST NE.
2. CLOSE THE RIGHT LANE OF 45TH ST N SOUTHBOUND AS NEEDED TO CONSTRUCT THE SHARED USE PATH AND CONCRETE PAVEMENT NORTHWEST OF 7TH AVE NE AND 45TH ST N.
3. SHIFT 45TH ST N SOUTHBOUND TRAFFIC INTO THE CHEVRONED AREA TO ALLOW SPACE FOR INSTALLATION OF THE PEDESTRIAN ACCESS ROUTE.

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

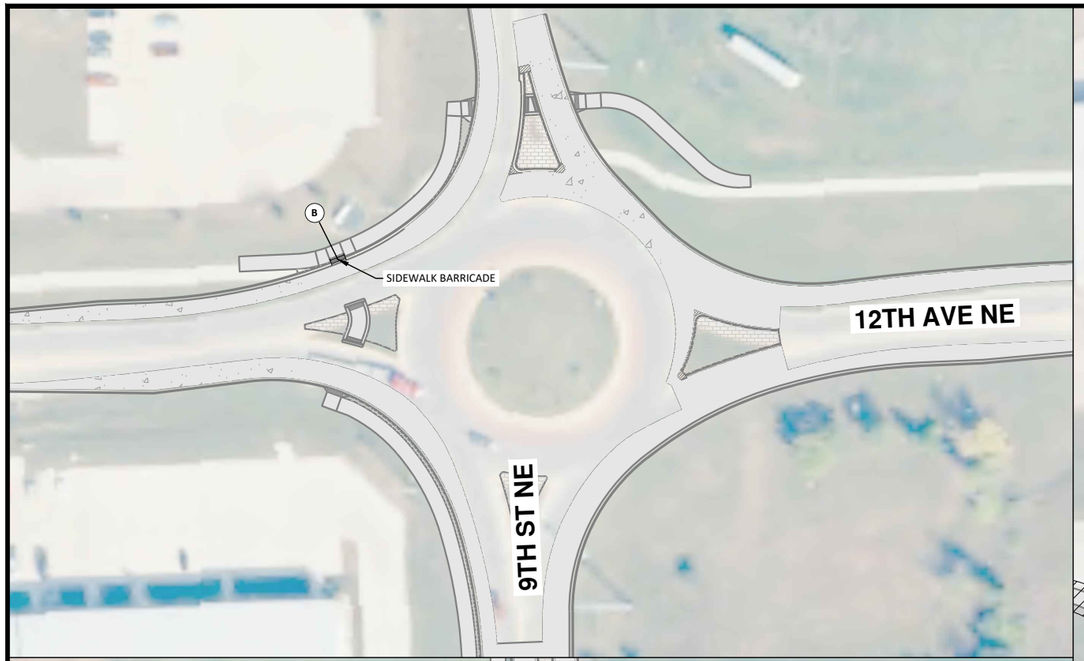
8/1/2025

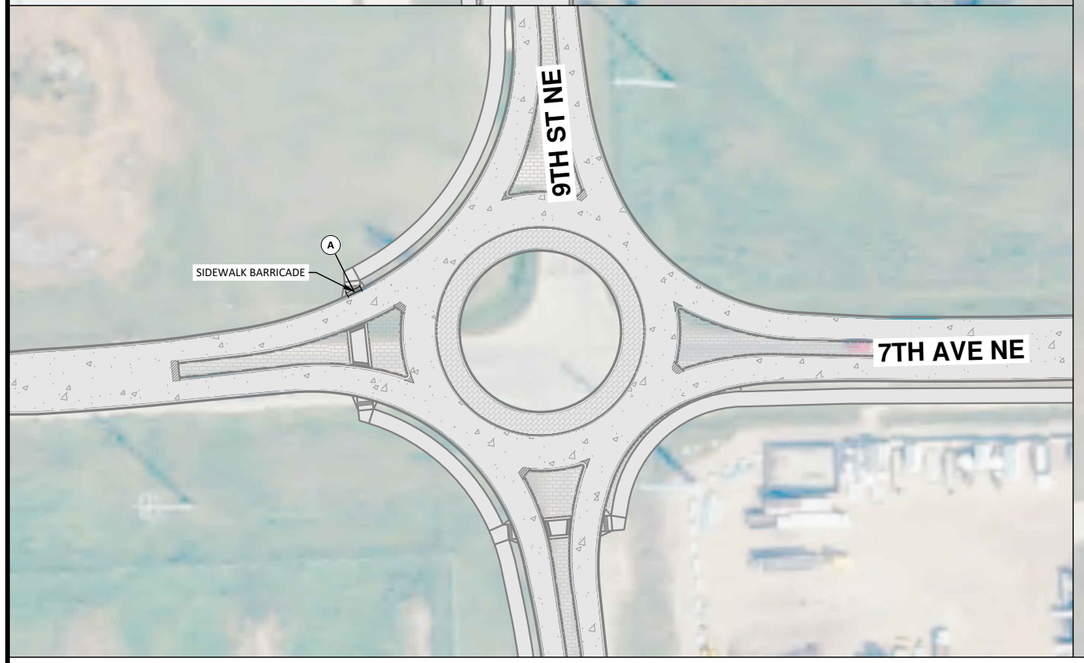
Work Zone Traffic Control - Phase 4 Right Lane Closure

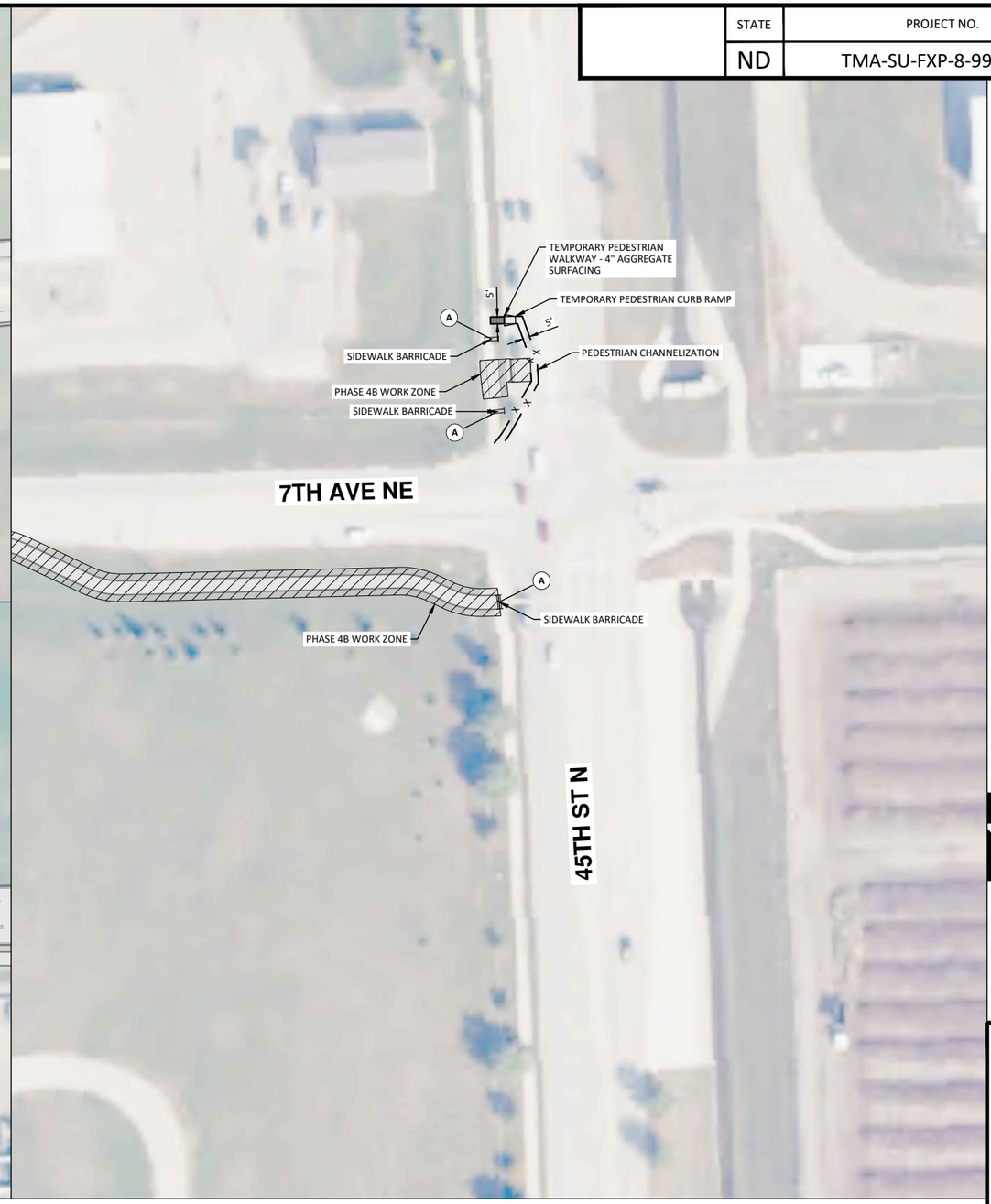
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

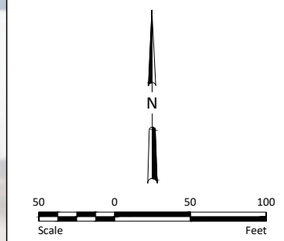
H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control - 4 Rt Lane.dwg Phase 4 Rt Lane-8/1/2025 11:09 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	13





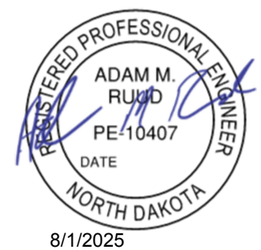




CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)



8/1/2025

Work Zone Pedestrian Traffic Control - Phase 4

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

Ⓐ - 4

SIDEWALK CLOSED

R9-9-24
BARRICADE MOUNTED

Ⓑ - 1

SIDEWALK CLOSED R9-9-24

AHEAD

W16-9p-30
BARRICADE MOUNTED

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK BARRICADE

PHASE 4 WORK ZONE

TEMPORARY PEDESTRIAN WALKWAY

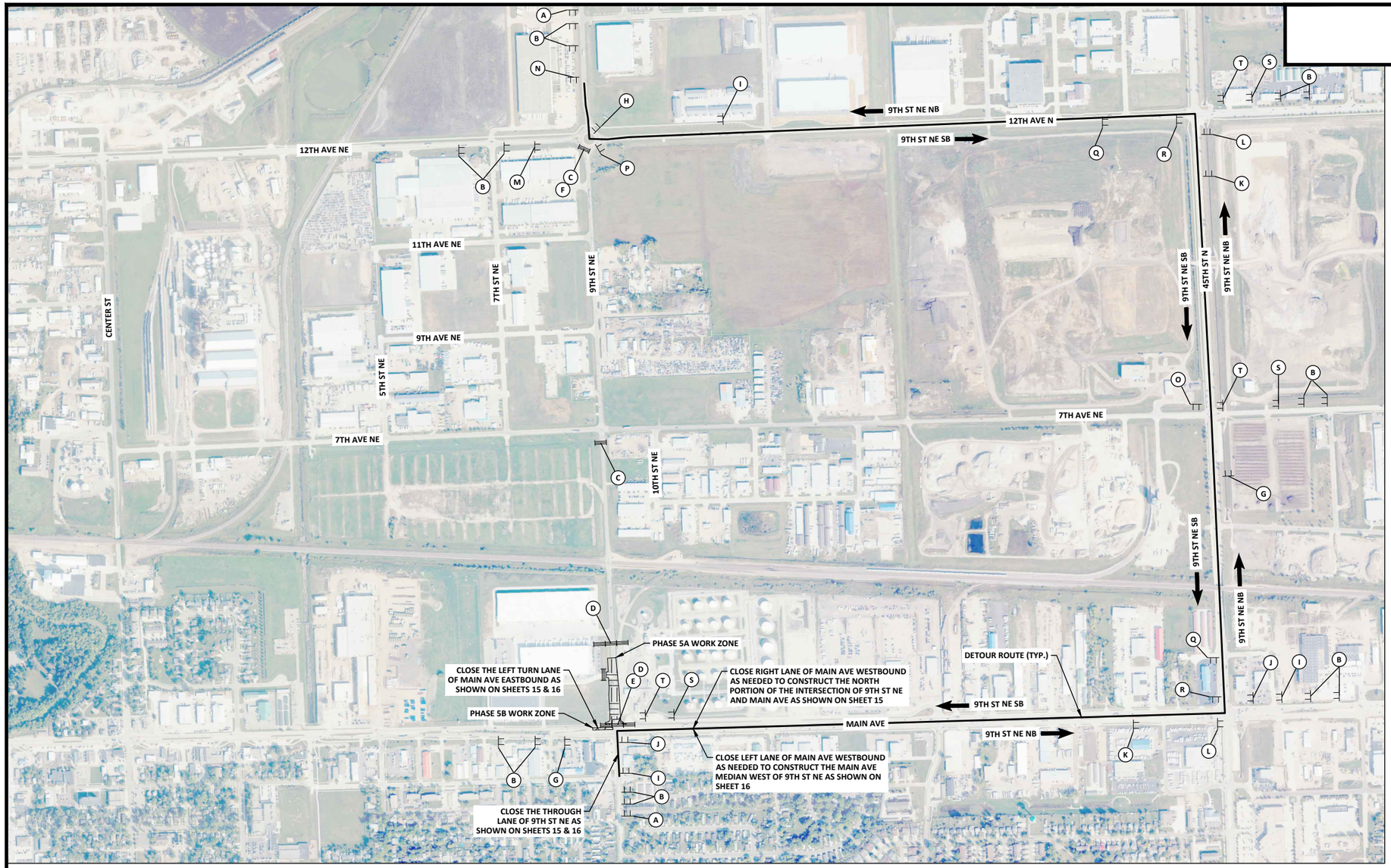
— X — PEDESTRIAN CHANNELIZATION

NOTES:

1. PHASE 4 IS FOR THE CONSTRUCTION OF 7TH AVE NE EAST OF 10TH ST NE.
2. INSTALL TEMPORARY PEDESTRIAN ACCESS ROUTE AFTER CLOSING THE RIGHT LANE OF 45TH ST N FOR THE CONSTRUCTION OF THE PEDESTRIAN RAMPS NORTHWEST OF 7TH AVE NE AND 45TH ST N.
3. INCLUDE ALL COSTS TO CONSTRUCT TEMPORARY PEDESTRIAN WALKWAY, INCLUDING AGGREGATE SURFACING AND EMBANKMENT, IN THE PRICE BID FOR "PEDESTRIAN CHANNELIZATION."

H:\BN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control Ped - 4.dwg-Phase 4 Ped-8/1/2025 11:09 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	14



N

500 0 500 1000
Scale Feet

(A) - 2
STREET CLOSED AHEAD
W20-3-48
POST MOUNTED

(B) - 14
DETOUR XXXX FT
W20-2-48
POST MOUNTED

(C) - 3
STREET CLOSED TO THRU TRAFFIC
R11-4a-60
BARRICADE MOUNTED

(D) - 2
STREET CLOSED
R11-2a-48
BARRICADE MOUNTED

(E) - 1
DETOUR
M4-10R-48
BARRICADE MOUNTED

(F) - 1
DETOUR
M4-10L-48
BARRICADE MOUNTED

(G) - 2
DETOUR M4-8-24
NORTH M3-1-24
9th St NE CONSIGN 1
M6-3-21

(H) - 1
DETOUR M4-8-24
NORTH M3-1-24
9th St NE CONSIGN 1
M6-2-21

(I) - 3
DETOUR M4-8-24
NORTH M3-1-24
9th St NE CONSIGN 1
M5-1-21

(J) - 2
DETOUR M4-8-24
NORTH M3-1-24
9th St NE CONSIGN 1
M6-1-21

(K) - 2
DETOUR M4-8-24
NORTH M3-1-24
9th St NE CONSIGN 1
M5-1-21

(L) - 2
DETOUR M4-8-24
NORTH M3-1-24
9th St NE CONSIGN 1
M6-1-21

(M) - 1
DETOUR M4-8-24
SOUTH M3-3-24
9th St NE CONSIGN 1
CONSIGN 4

(N) - 1
DETOUR M4-8-24
SOUTH M3-3-24
9th St NE CONSIGN 1
M5-3-21

(O) - 1
DETOUR M4-8-24
SOUTH M3-3-24
9th St NE CONSIGN 1
M6-3-21

(P) - 1
DETOUR M4-8-24
SOUTH M3-3-24
9th St NE CONSIGN 1
M6-2-21

(Q) - 2
DETOUR M4-8-24
SOUTH M3-3-24
9th St NE CONSIGN 1
M5-1-21

(R) - 2
DETOUR M4-8-24
SOUTH M3-3-24
9th St NE CONSIGN 1
M6-1-21

(S) - 3
DETOUR M4-8-24
SOUTH M3-3-24
9th St NE CONSIGN 1
M5-1-21

(T) - 3
DETOUR M4-8-24
SOUTH M3-3-24
9th St NE CONSIGN 1
M6-1-21

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

TYPE III BARRICADE

SIGN

PHASE 5A WORK ZONE

PHASE 5B WORK ZONE

NOTES:

1. PHASE 5A IS FOR THE CONSTRUCTION OF 9TH ST NE NORTH OF MAIN AVE AND SOUTH OF THE EXCEPTION AREA. PHASE 5B IS FOR THE CONSTRUCTION OF THE MAIN AVE MEDIAN WEST OF 9TH ST NE.
2. COVER OR REMOVE ANY 7TH AVE NE DETOUR SIGNS DURING THIS PHASE.
3. SEE STANDARD DRAWING 704-21 FOR SIGN SPACING DETAILS.

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

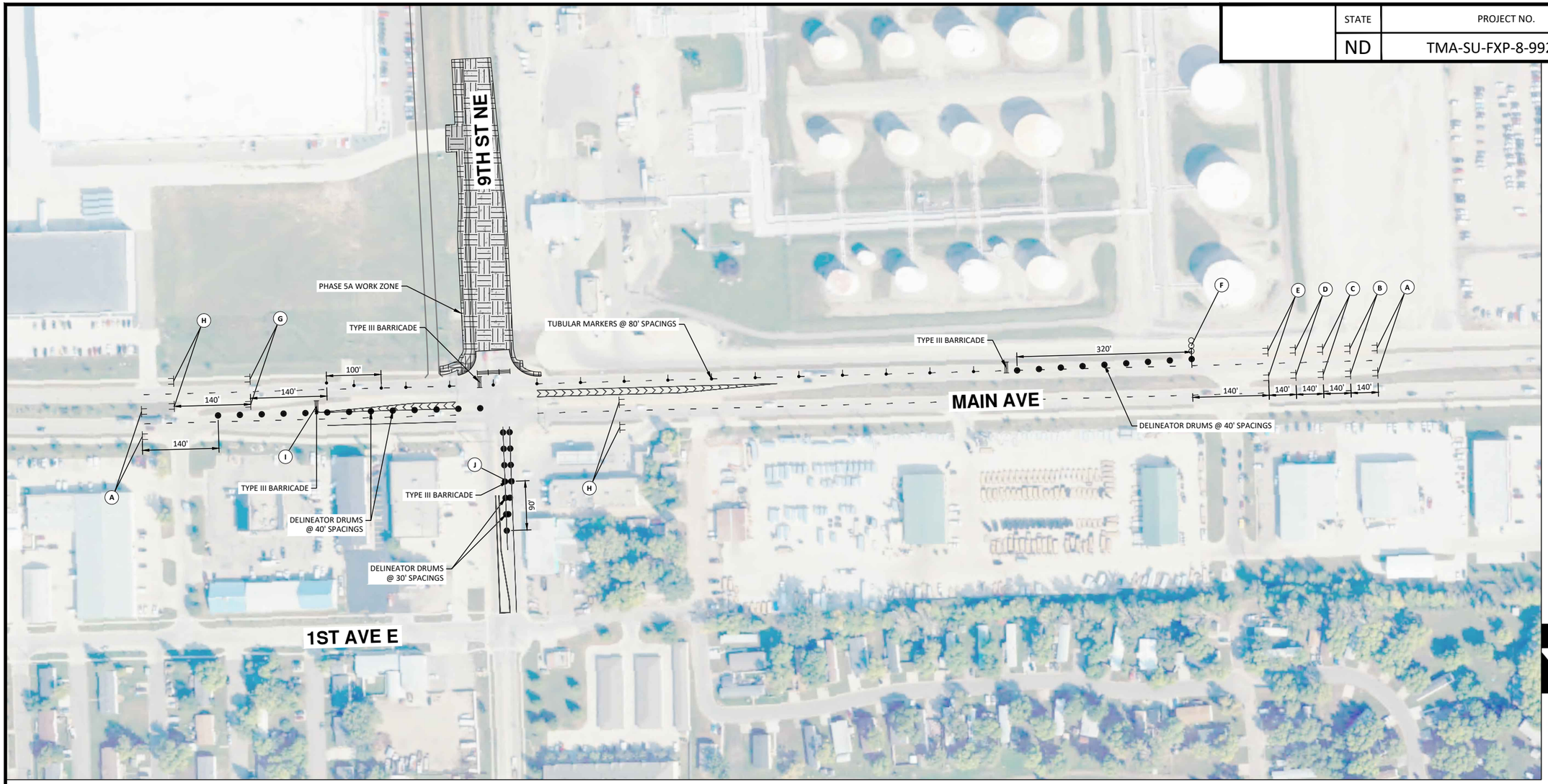
8/1/2025

Work Zone Traffic Control - Phases 5A & 5B

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control - 5A & 5B.dwg-Phase 5A & 5B-8/1/2025 11:09 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	15



N

100 0 100 200

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

A - 4
ROAD WORK AHEAD
W20-1-48 PORTABLE

B - 2
RIGHT LANE CLOSED 500 FT
W20-5-48 PORTABLE

C - 2
SPEED LIMIT XX
W3-5-48 PORTABLE

D - 2
SPEED LIMIT XX
R2-1-36
MINIMUM FEE $150
R2-1aP-24 PORTABLE

E - 2
W4-2R-48 PORTABLE

F - 1
SEQUENCING ARROW PANEL - TYPE C

G - 2
SPEED LIMIT 40
R2-1-36 PORTABLE

H - 4
END ROAD WORK
G20-2-48 PORTABLE

I - 1
R3-2-48 BARRICADE MOUNTED

J - 1
W1-6R-48 BARRICADE MOUNTED

- TUBULAR MARKER
- DELINEATOR DRUM
- SEQUENCING ARROW PANEL - TYPE C
- TYPE III BARRICADE
- SIGN
- PHASE 5A WORK ZONE

NOTES:

1. PHASE 5A IS FOR THE CONSTRUCTION OF 9TH ST NE NORTH OF MAIN AVE AND SOUTH OF THE EXCEPTION AREA.
2. CLOSE THE RIGHT LANE OF MAIN AVE WESTBOUND AS NEEDED TO CONSTRUCT THE NORTH PORTION OF THE INTERSECTION OF 9TH ST NE AND MAIN AVE.
3. MAINTAIN MAIN AVE WESTBOUND TRAFFIC IN THE LEFT LANE WHEN UTILIZING THIS LAYOUT.

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

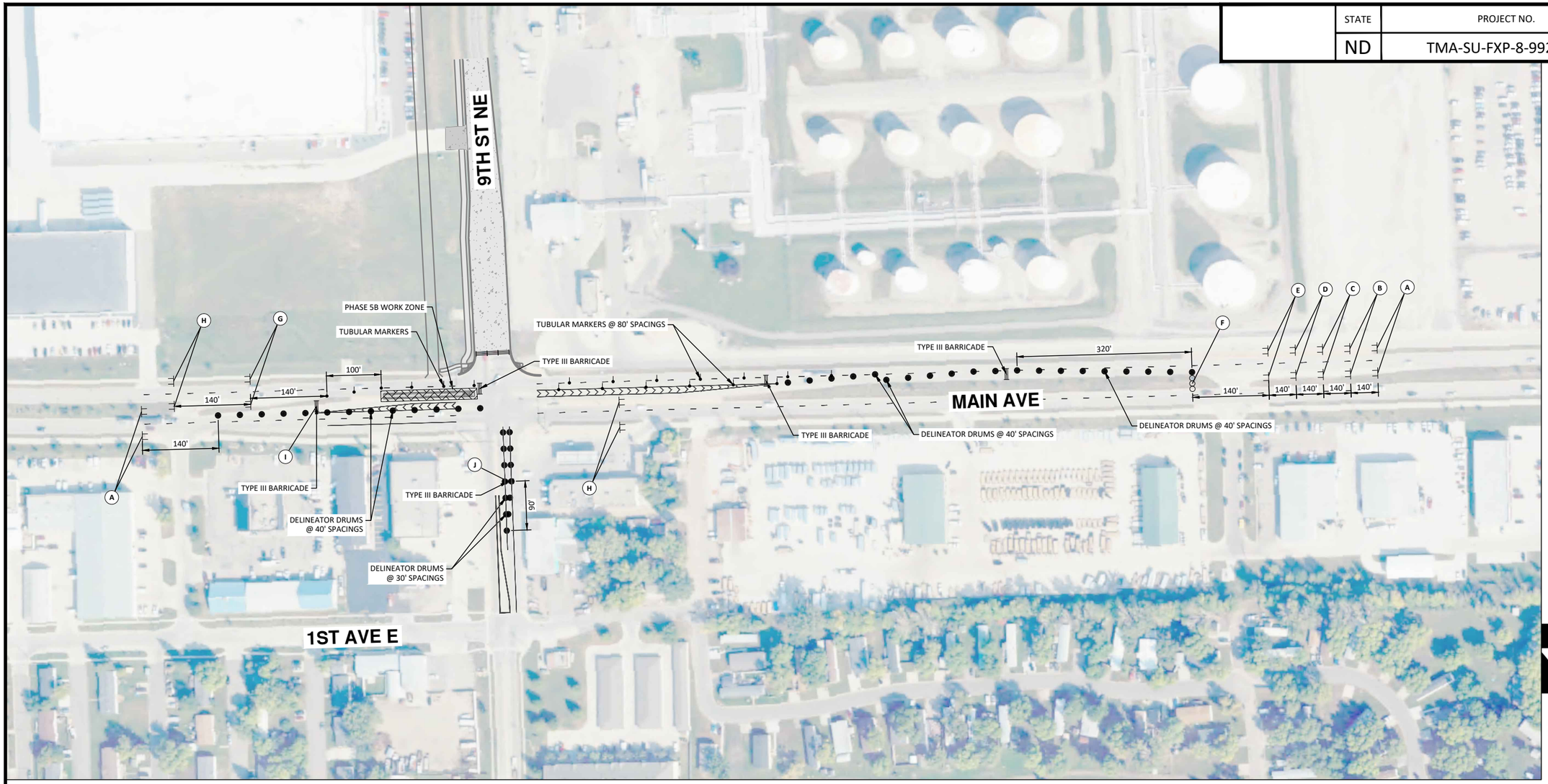
8/1/2025

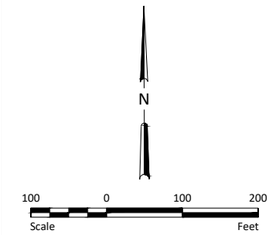
Work Zone Traffic Control - Phase 5A Right Lane Closure

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control - 5A Rt Lane.dwg-Phase 5A Rt Lane-8/1/2025 11:09 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	16





A - 4
ROAD WORK AHEAD
W20-1-48 PORTABLE

B - 2
LEFT LANE CLOSED 500 FT
W20-5-48 PORTABLE

C - 2
SPEED LIMIT XX
W3-5-48 PORTABLE

D - 2
SPEED LIMIT XX
R2-1-36
MINIMUM FEE $150
R2-1aP-24 PORTABLE

E - 2
W4-2L-48 PORTABLE

F - 1
SEQUENCING ARROW PANEL - TYPE C

G - 2
SPEED LIMIT 40
R2-1-36 PORTABLE

H - 4
END ROAD WORK
G20-2-48 PORTABLE

I - 1
R3-2-48 BARRICADE MOUNTED

J - 1
W1-6R-48 BARRICADE MOUNTED

- TUBULAR MARKER
- DELINEATOR DRUM
- SEQUENCING ARROW PANEL - TYPE C
- TYPE III BARRICADE
- SIGN
- PHASE 5B WORK ZONE

NOTES:

1. PHASE 5B IS FOR THE CONSTRUCTION OF THE MAIN AVE MEDIAN WEST OF 9TH ST NE.
2. CLOSE THE LEFT LANE OF MAIN AVE WESTBOUND.
3. MAINTAIN MAIN AVE WESTBOUND TRAFFIC IN THE RIGHT LANE WHEN UTILIZING THIS LAYOUT.
4. MAINTAIN ACCESS TO THE MAIN AVE WESTBOUND LEFT TURN LANE AT ALL TIMES.

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/1/2025

Work Zone Traffic Control - Phase 5B Left Lane Closure

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\100 - Traffic Control - 5B Lt Lane.dwg-Phase 5B Lt Lane-8/1/2025 11:09 AM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	17



N

50 0 50 100

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/1/2025

Work Zone Pedestrian Control-
Phases 5A & 5B

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

Ⓐ - 3

SIDEWALK CLOSED

R9-9-24
BARRICADE MOUNTED

Ⓑ - 1

SIDEWALK CLOSED AHEAD
CROSS HERE

R9-11R-24
BARRICADE MOUNTED

SIDEWALK BARRICADE

PHASE 5A WORK ZONE

PHASE 5B WORK ZONE

NOTES:

1. **PHASE 5A IS FOR THE CONSTRUCTION OF 9TH ST NE NORTH OF MAIN AVE AND SOUTH OF THE EXCEPTION AREA. PHASE 5B IS FOR THE CONSTRUCTION OF THE MAIN AVE MEDIAN WEST OF 9TH ST NE.**

H:\JBN\8600\8654\8654_0004 9th St\CAD\10_CITY PROJECT\Plans\100 - Traffic Control Ped - 5A & 5B.dwg-Phase 5A & 5B Ped-8/1/2025 12:57 PM-(jandresen)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	100	18



N

50 0 50 100

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
ADAM M. RUUD
PE-10407
DATE
NORTH DAKOTA

8/1/2025

A - 2



W20-1-48
PORTABLE

B - 2



G20-2-48
PORTABLE

C - 4



R9-9-24
BARRICADE MOUNTED

D - 1



R9-11aL-24
BARRICADE MOUNTED

E - 1



R9-11aR-24
BARRICADE MOUNTED

F - 1



R9-11L-24
BARRICADE MOUNTED

G - 1



R9-11R-24
BARRICADE MOUNTED

- DELINEATOR DRUM
- SIDEWALK BARRICADE
- TYPE III BARRICADE
- SIGN
- PHASE 5C WORK ZONE

NOTES:

1. PHASE 5C IS FOR THE CONSTRUCTION OF PEDESTRIAN RAMPS SOUTHWEST OF MAIN AVE AND 9TH ST NE.
2. CLOSE THE RIGHT TURN LANE OF MAIN AVE EASTBOUND.

Work Zone Traffic Control - Phase 5C

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	N.D.	TMA-SU-FXP-8-992(045)	110	1

Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs IV SF	Flat Sheet For Signs XI SF	Sign Support Length 1st LF	2nd LF	3rd LF	4th LF	Vert Clear-ance FT	Support Size	Max Post Len LF	Sleeve Length 1st LF	2nd LF	3rd LF	4th LF	Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments
9th Street NE - Funding A																							
102+87 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
103+47 Lt	SA I			6.0	7.7				7.0	2 x 2 12 ga	12.7						1	4	2.25 x 2.25 12 ga				
105+34 Rt		9		5.0					7.0														Mount on Light Standard
105+34 Rt		14		4.0					7.0														Mount on Light Standard
107+09 Lt		37		10.0	9.7				7.0	2.5 x 2.5 10 ga	11.4						1	4	3 x 3 7 ga			1	
Sub Total			0.0	30.0		**Total**	27.1										**Total**	12.0		0	0	1	
9th Street NE - Funding B																							
126+91 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
127+79 Lt	SA A			8.5	12.0				7.0	2.5 x 2.5 12 ga	12.8						1	4	3 x 3 7 ga				
128+22 Lt	SN 5		6.8		8.2				7.0	2.25 x 2.25 12 ga	9.6						1	4	2.5 x 2.5 12 ga				
128+23 Rt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
128+25 Lt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
128+86 Rt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
129+62 Lt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
130+15 Rt	SN 5		6.8		8.2				7.0	2.25 x 2.25 12 ga	9.6						1	4	2.5 x 2.5 12 ga				
130+18 Lt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
130+27 Lt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
131+42 Rt		9		5.0					7.0														Mount on Light Standard
131+48 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
132+98 Rt		22		6.0					7.0														Mount on Light Standard
133+64 Rt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
133+76 Lt		19		6.3	10.2				7.0	2.25 x 2.25 12 ga	11.6						1	4	2.5 x 2.5 12 ga				
134+75 Rt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
137+30 Lt	SA B			13.2	12.2				7.0	2.5 x 2.5 12 ga	12.6						1	4	3 x 3 7 ga				
137+46 Rt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
138+59 Rt	SA C			12.3	9.7				7.0	2.25 x 2.25 12 ga	11.5						1	4	2.5 x 2.5 12 ga				
139+48 Rt	SA D			11.2	9.7				7.0	2 x 2 12 ga	10.5						1	4	2.25 x 2.25 12 ga				
140+01 Lt		22		6.0	10.2				7.0	2.25 x 2.25 12 ga	12.9						1	4	2.5 x 2.5 12 ga				
140+38 Rt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
140+98 Rt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
141+77 Rt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
142+53 Rt		1		5.2	9.7				7.0	2 x 2 12 ga	10.5						1	4	2.25 x 2.25 12 ga				
142+65 Rt	SA C			12.3	9.2				7.0	2.25 x 2.25 12 ga	13.2	1.2				2.5 x 2.5 12 ga	1	4	3 x 3 7 ga			1	
143+42 Rt		1		5.2	9.7				7.0	2 x 2 12 ga	10.5						1	4	2.25 x 2.25 12 ga				

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Sign Summary
Perforated Tube

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654A\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - Sign Summary.dwg-Layout (1)-8/15/2025 6:59 AM-(jrenner)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	TMA-SU-FXP-8-992(045)	110	2

Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs IV SF	Flat Sheet For Signs XI SF	Sign Support Length 1st LF	2nd LF	3rd LF	4th LF	Vert Clear-ance FT	Support Size	Max Post Len LF	Sleeve Length 1st LF	2nd LF	3rd LF	4th LF	Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments
143+94 Rt		22		6.0					7.0														Mount on Light Standard
145+38 Lt	SA B			13.2	12.2				7.0	2.5 x 2.5 12 ga	12.6						1	4	3 x 3 7 ga				
147+70 Lt		22		6.0	10.2				7.0	2.25 x 2.25 12 ga	12.9						1	4	2.5 x 2.5 12 ga				
149+20 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
149+97 Rt		19		6.3					7.0														Mount on Light Standard
151+46 Rt		36		8.8					7.0														Mount on Light Standard
151+51 Lt		15		6.3	9.7				7.0	2.25 x 2.25 12 ga	11.6						1	4	2.5 x 2.5 12 ga				
152+89 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
153+31 Rt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
153+34 Lt	SN 5		6.8		8.2				7.0	2.25 x 2.25 12 ga	9.6						1	4	2.5 x 2.5 12 ga				
153+82 Rt				6.0	8.7				7.0	2.25 x 2.25 12 ga	11.4						1	4	2.5 x 2.5 12 ga				
154+70 Lt				6.0	8.7				7.0	2.25 x 2.25 12 ga	11.4						1	4	2.5 x 2.5 12 ga				
155+41 Rt	SN 5		6.8		8.2				7.0	2.25 x 2.25 12 ga	9.6						1	4	2.5 x 2.5 12 ga				
155+41 Rt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
155+43 Lt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
155+88 Rt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
155+88 Lt	SA A			8.5	12.0				7.0	2.5 x 2.5 12 ga	12.8						1	4	3 x 3 7 ga				
155+88 Rt	SA A			8.5	12.0				7.0	2.5 x 2.5 12 ga	12.8						1	4	3 x 3 7 ga				
157+33 Lt		36		8.8					7.0														Mount on Light Standard
158+06 Rt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
158+98 Lt		19		6.3					7.0														Mount on Light Standard
205+19 Lt		14		4.0					7.0														Mount on Light Standard
205+52 Rt		19		6.3	10.2				7.0	2.25 x 2.25 12 ga	11.6						1	4	2.5 x 2.5 12 ga				
206+88 Lt		9		5.0					7.0														Mount on Light Standard
207+50 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
208+48 Lt	SA A			8.5	12.0				7.0	2.5 x 2.5 12 ga	12.8						1	4	3 x 3 7 ga				
208+82 Lt	SN 4		7.5		8.2				7.0	2.25 x 2.25 12 ga	8.7						1	4	2.5 x 2.5 12 ga				
208+82 Rt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
208+85 Rt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
209+49 Rt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
210+22 Lt		27		3.0	8.2				7.0	2 x 2 12 ga	13.2						1	4	2.25 x 2.25 12 ga				
210+75 Rt	SN 4		7.5		8.2				7.0	2.25 x 2.25 12 ga	8.7						1	4	2.5 x 2.5 12 ga				
210+76 Lt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
210+76 Lt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
307+86 Lt		9		5.0					7.0														Mount on Light Standard

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Sign Summary
Perforated Tube

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654A\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - Sign Summary.dwg-Layout (2)-8/15/2025 6:59 AM-(jrenner)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	TMA-SU-FXP-8-992(045)	110	3

Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs IV SF	Flat Sheet For Signs XI SF	Sign Support Length 1st LF	2nd LF	3rd LF	4th LF	Vert Clear-ance FT	Support Size	Max Post Len LF	Sleeve Length 1st LF	2nd LF	3rd LF	4th LF	Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments
307+86 Lt		14		4.0					7.0														Mount on Light Standard
307+89 Rt		19		6.3	10.2				7.0	2.25 x 2.25 12 ga	11.6						1	4	2.5 x 2.5 12 ga				
309+39 Rt		36		8.8	9.7				7.0	2.5 x 2.5 12 ga	10.7						1	4	3 x 3 7 ga				
310+02 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
311+45 Lt		20		9.0	10.4				7.0	2.5 x 2.5 10 ga	12.9						1	4	3 x 3 7 ga			1	
311+92 Rt	SA A			8.5	12.0				7.0	2.5 x 2.5 12 ga	12.8						1	4	3 x 3 7 ga				
311+94 Lt	SA A			8.5	12.0				7.0	2.5 x 2.5 12 ga	12.8						1	4	3 x 3 7 ga				
312+07 Lt	SA A			8.5	12.0				7.0	2.5 x 2.5 12 ga	12.8						1	4	3 x 3 7 ga				
312+10 Lt	SA A			8.5	12.0				7.0	2.5 x 2.5 12 ga	12.8						1	4	3 x 3 7 ga				
312+42 Rt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
312+42 Lt	SN 6		8.3		8.2				7.0	2.5 x 2.5 12 ga	10.1						1	4	3 x 3 7 ga				
312+96 Rt				6.0	8.2				7.0	2.25 x 2.25 12 ga	10.9						1	4	2.5 x 2.5 12 ga				
313+83 Lt				6.0	8.2				7.0	2.25 x 2.25 12 ga	10.9						1	4	2.5 x 2.5 12 ga				
314+40 Rt	SN 6		8.3		8.2				7.0	2.5 x 2.5 12 ga	10.1						1	4	3 x 3 7 ga				
314+49 Lt		4		3.9	9.8				7.0	2 x 2 12 ga	13.6						1	4	2.25 x 2.25 12 ga				
314+60 Lt		4		3.9					7.0														Mount on Light Standard
315+33 Rt		20		9.0	10.4				7.0	2.5 x 2.5 10 ga	12.9						1	4	3 x 3 7 ga			1	
316+74 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
317+89 Lt		36		8.8					7.0														Mount on Light Standard
318+36 Rt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
319+49 Lt		19		6.3					7.0														Mount on Light Standard
320+11 Rt		22		6.0	10.2				7.0	2.25 x 2.25 12 ga	12.9						1	4	2.5 x 2.5 12 ga				
Sub Total			58.8	449.5		**Total**	675.6										**Total**	280.0		0	0	3	

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Sign Summary
Perforated Tube

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - Sign Summary.dwg-Layout (3)-8/15/2025 6:59 AM-(jrenner)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	TMA-SU-FXP-8-992(045)	110	4

Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs IV SF	Flat Sheet For Signs XI SF	Sign Support Length 1st LF	2nd LF	3rd LF	4th LF	Vert Clear-ance FT	Support Size	Max Post Len LF	Sleeve Length 1st LF	2nd LF	3rd LF	4th LF	Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments
7th Ave NE - Funding C																							
212+08 Lt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
213+28 Lt		19		6.3	10.2				7.0	2.25 x 2.25 12 ga	11.6						1	4	2.5 x 2.5 12 ga				
213+39 Rt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
214+45 Rt		14		4.0	9.2				7.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
215+03 Rt	SA B			13.2	12.2				7.0	2.5 x 2.5 12 ga	12.6						1	4	3 x 3 7 ga				
215+89 Rt		22		6.0	10.2				7.0	2.25 x 2.25 12 ga	12.9						1	4	2.5 x 2.5 12 ga				
223+57 Rt		14		4.0	9.2				7.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
223+67 Rt	SA B			13.2	12.2				7.0	2.5 x 2.5 12 ga	12.6						1	4	3 x 3 7 ga				
226+57 Lt		22		6.0					7.0														Mount on Light Standard
227+84 Rt		22		6.0	10.2				7.0	2.25 x 2.25 12 ga	12.9						1	4	2.5 x 2.5 12 ga				
232+11 Rt		14		4.0	9.2				7.0	2 x 2 12 ga	13.0						1	4	2.25 x 2.25 12 ga				
232+67 Rt	SA B			13.2	12.2				7.0	2.5 x 2.5 12 ga	12.6						1	4	3 x 3 7 ga				
233+17 Lt		9		5.0					7.0														Mount on Light Standard
235+97 Lt	SA E				10.7	11.3			7.0	2.25 x 2.25 12 ga	14.2	1.9	2.6			2.5 x 2.5 12 ga	2	4	3 x 3 7 ga	1		2	
Sub Total			0.0	90.9		**Total**	136.2										**Total**	52.0		1	0	2	
7th Ave NE - Funding D																							
237+82 Rt		9		5.0	9.7				7.0	2 x 2 12 ga	11.5						1	4	2.25 x 2.25 12 ga				
244+18 Lt		22		6.0					7.0														Mount on Light Standard
244+18 Rt		22		6.0	10.2				7.0	2.25 x 2.25 12 ga	12.9						1	4	2.5 x 2.5 12 ga				
252+28 Rt	SA F			7.2	9.7				7.0	2.25 x 2.25 12 ga	10.2						1	4	2.5 x 2.5 12 ga				
254+79 Lt		22		6.0					7.0														Mount on Light Standard
255+83 Rt	SA G			7.2	9.7				7.0	2.25 x 2.25 12 ga	10.2						1	4	2.5 x 2.5 12 ga	1			
257+74 Rt	SA H			8.0	11.2				7.0	2.5 x 2.5 12 ga	13.0						1	4	3 x 3 7 ga				
258+63 Rt	SA F			7.2	9.7				7.0	2.25 x 2.25 12 ga	10.2						1	4	2.5 x 2.5 12 ga				
260+13 Rt		37		10.0	9.2				7.0	2.5 x 2.5 10 ga	11.4						1	4	3 x 3 7 ga			1	
Sub Total			0.0	62.6		**Total**	69.4										**Total**	28.0		1	0	1	
Grand Total			**58.8**	**633.0**		**Total**	**908.3**										**Total**	**372**	**0**	**2**	**0**	**7**	

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

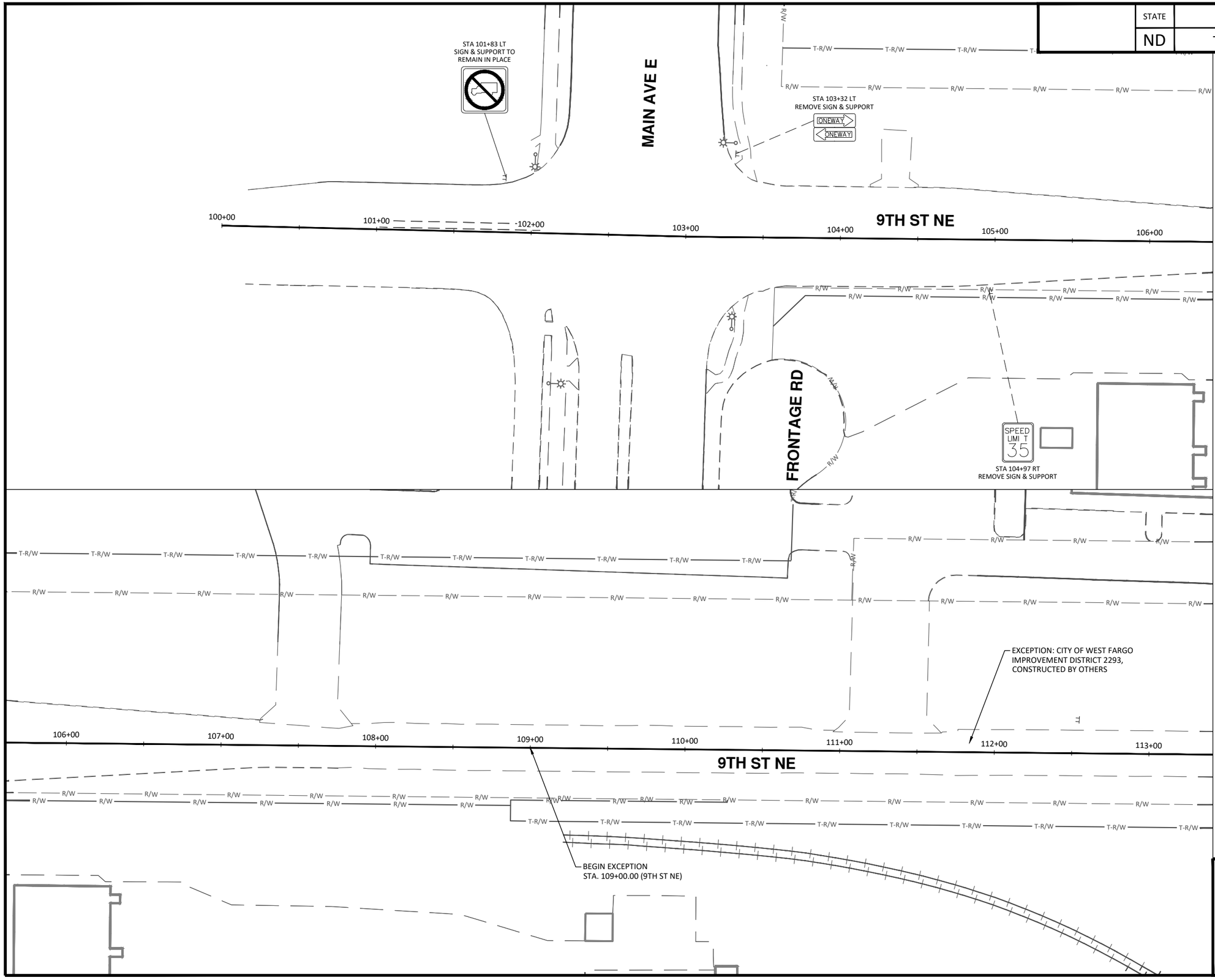
Sign Summary
Perforated Tube

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

8/13/25 2:09:03PM

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	5



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

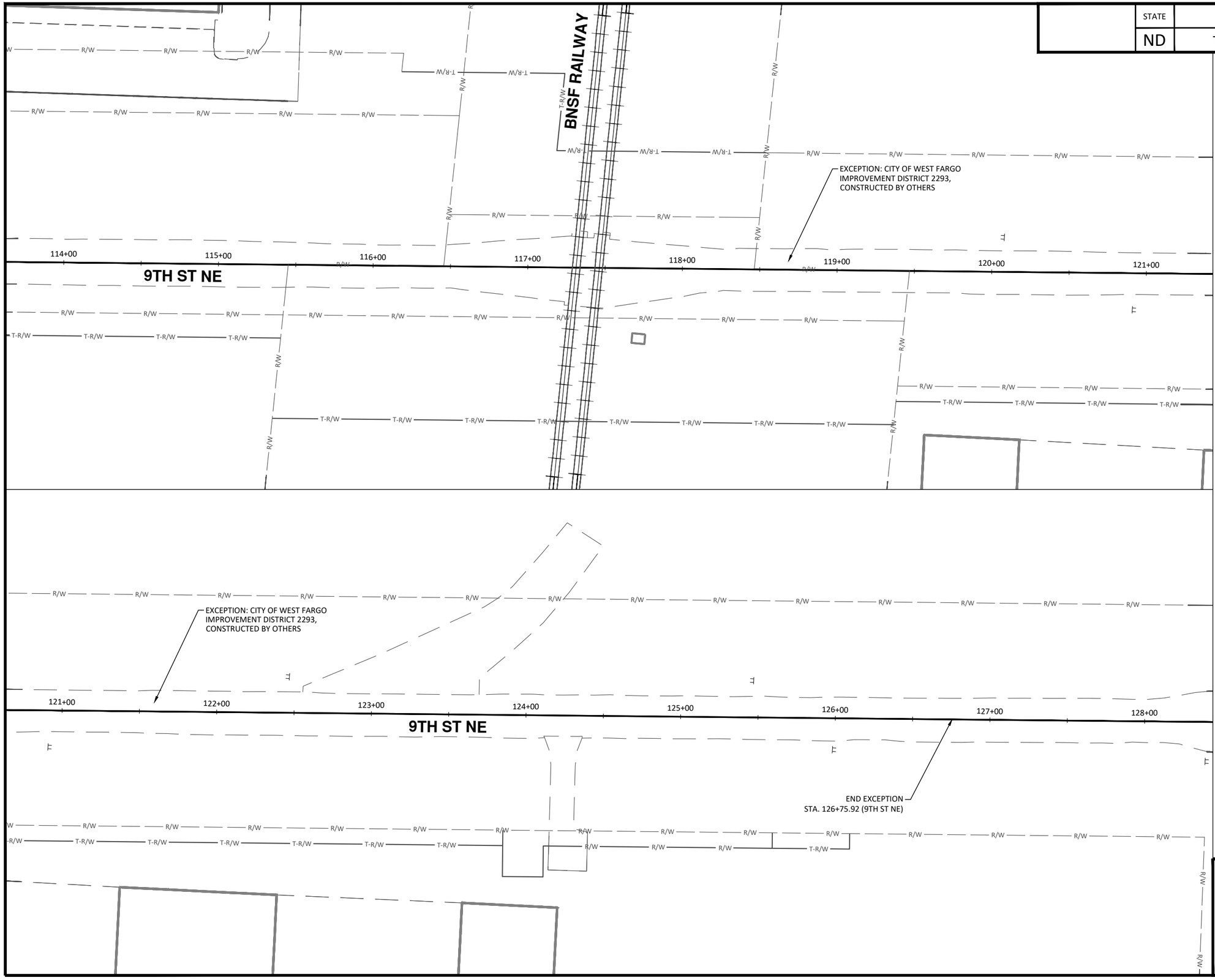
8/15/2025

Existing Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	6



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Existing Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	7

N

30 0 30 60

Scale Feet

9TH ST NE

7TH AVE NE

9TH AVE NE

9TH ST NE

127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00

134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00

STA 129+50 LT
REMOVE SIGN & SUPPORT

STA 132+87 LT
REMOVE SIGN & SUPPORT

STA 128+39 RT
REMOVE SIGN & SUPPORT

STA 129+28 RT
REMOVE SIGN & SUPPORT

STA 133+09 RT
REMOVE SIGN & SUPPORT

STA 137+37 LT
REMOVE SIGN & SUPPORT

STA 137+91 LT
REMOVE SIGN & SUPPORT

STA 139+75 RT
REMOVE SIGN & SUPPORT

9TH St NE
700 Blk
7TH Ave NE
900 Blk

9TH St NE
9TH Ave NE

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Existing Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	8

N

30 0 30 60

Scale Feet

9TH ST NE

11TH AVE NE

10TH AVE NE

12TH AVE NE

STA 145+46 LT
REMOVE SIGN & SUPPORT

STA 145+97 LT
REMOVE SIGN & SUPPORT
9TH St NE 1100 Blk
11TH Ave NE 800 Blk

STA 143+77 RT
REMOVE SIGN & SUPPORT

STA 151+53 LT
REMOVE SIGN & SUPPORT
72HR PARKING PERMITTED ON WEST FARGO CITY STREETS

STA 153+36 LT
REMOVE SIGN & SUPPORT
9TH St NE 1100 Blk

STA 153+83 RT
STA 154+69 RT
REMOVE SIGN & SUPPORT

STA 151+20 RT
REMOVE SIGN & SUPPORT

STA 152+80 RT
REMOVE SIGN & SUPPORT

STA 153+34 RT
REMOVE SIGN & SUPPORT

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

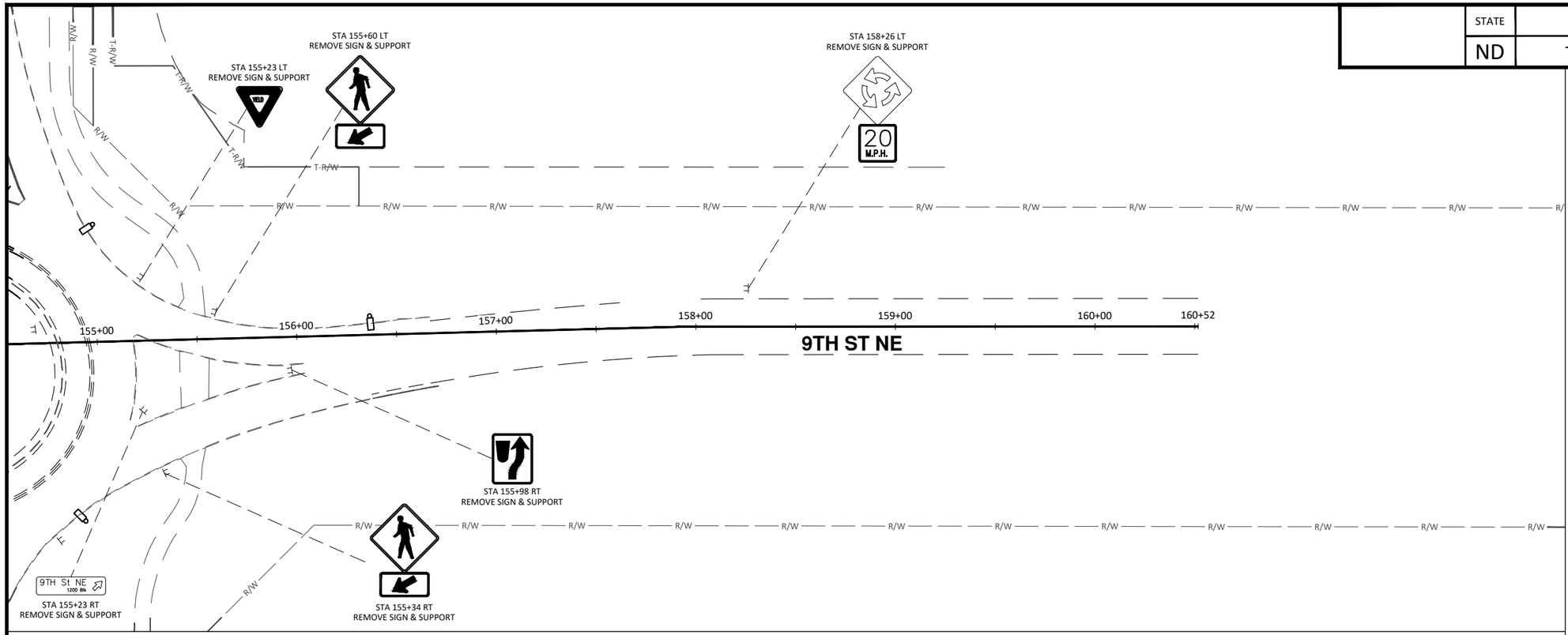
8/15/2025

Existing Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - 9th St NE Signing_Existing.dwg-Signing (4)-8/15/2025 7:00 AM-(jrenner)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	9



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Existing Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - 9th St NE Signing_Existing.dwg-Signing (5)-8/15/2025 7:00 AM-(jrenner)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	10

STA 307+86 LT
REMOVE SIGN FROM LIGHT STANDARD

STA 309+96 LT
REMOVE SIGN FROM LIGHT STANDARD

STA 312+46 LT
REMOVE SIGN & SUPPORT

STA 312+99 RT
STA 313+79 LT
REMOVE SIGN & SUPPORT

STA 309+15 RT
REMOVE SIGN & SUPPORT

STA 309+98 RT
REMOVE SIGN & SUPPORT

STA 309+93 RT
REMOVE SIGN & SUPPORT

STA 312+50 RT
REMOVE SIGN & SUPPORT

STA 314+23 LT
REMOVE SIGN & SUPPORT

STA 317+28 LT
REMOVE SIGN FROM LIGHT STANDARD

STA 318+14 LT
REMOVE SIGN & SUPPORT

STA 316+83 RT
REMOVE SIGN & SUPPORT

STA 316+90 RT
REMOVE SIGN & SUPPORT

STA 318+64 RT
REMOVE SIGN & SUPPORT

STA 314+31 RT
REMOVE SIGN & SUPPORT

12TH AVE NE

9TH ST NE

308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00 317+00 318+00 319+00 320+00

N

30 0 30 60
Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Existing Signing - 12th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - 9th St NE Signing_Existing.dwg-Signing (6)-8/15/2025 7:00 AM-(jrenner)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	11

STA 207+13 LT
REMOVE SIGN FROM
LIGHT STANDARD

SPEED LIMIT 35

NO PARKING THIS SIDE OF STREET

9TH ST NE

STA 210+63 LT
REMOVE SIGN & SUPPORT

STOP
ALL WAY

205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00

7TH AVE NE

STA 206+90 RT
REMOVE SIGN & SUPPORT

STOP
ALL WAY

STA 209+43 RT
REMOVE SIGN & SUPPORT

N

30 0 30 60
Scale Feet

STA 213+09 LT
REMOVE SIGN & SUPPORT

STA 214+99 RT
REMOVE SIGN & SUPPORT

7TH Ave NE 1000 BLK
10TH St NE 600 BLK

212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00

7TH AVE NE

SPEED LIMIT 35

STA 213+88 RT
REMOVE SIGN & SUPPORT

NO PARKING

STA 214+46 RT
REMOVE SIGN FROM
LIGHT STANDARD

10TH ST NE

STOP

STA 214+95 RT
REMOVE SIGN & SUPPORT

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Existing Signing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	12

7TH AVE NE

13TH ST NE

16TH ST NE

STA 222+90 LT
REMOVE SIGN & SUPPORT
SPEED LIMIT 35

STA 223+63 RT
REMOVE SIGN & SUPPORT
7TH Ave NE 1300 BLK
13TH St NE 600 BLK

STA 221+87 RT
REMOVE SIGN & SUPPORT
SPEED LIMIT 35

STA 223+09 RT
SIGN & SUPPORT TO
REMAIN IN PLACE
NO PARKING

STA 223+57 RT
REMOVE SIGN FROM
LIGHT STANDARD
NO PARKING

STA 223+57 RT
REMOVE SIGN & SUPPORT
STOP

STA 232+65 RT
REMOVE SIGN & SUPPORT
7TH Ave NE 1600 BLK
16TH St NE 600 BLK

STA 232+10 RT
REMOVE SIGN FROM
LIGHT STANDARD
NO PARKING

STA 232+59 RT
REMOVE SIGN & SUPPORT
STOP

N

30 0 30 60
Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Existing Signing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - 7th Ave NE Signing_Existing.dwg-Signing (2) 8/15/2025 7:00 AM-(jrenner)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	13

STA 235+97 LT
SALVAGE SIGN &
REMOVE SUPPORTS

CITY OF WEST FARGO — SALVAGE
WELCOMES YOU
POPULATION 33,650 — SALVAGE
72HR PARKING PERMITTED ON WEST FARGO CITY STREETS — SALVAGE

233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00

7TH AVE NE

SPEED LIMIT 35

STA 237+53 RT
REMOVE SIGN & SUPPORT

240+00 241+00 242+00 243+00 244+00 245+00 246+00 247+00

7TH AVE NE

N

30 0 30 60
Scale Feet

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DATE
NORTH DAKOTA

8/15/2025

Existing Signing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - 7th Ave NE Signing_Existing.dwg-Signing (3)-8/15/2025 7:00 AM-(jrenner)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	14

STA 250+83 LT
REMOVE SIGN & SUPPORT

END
CENTER LANE

247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00

7TH AVE NE

BEGIN
CENTER LANE

STA 250+89 RT
REMOVE SIGN & SUPPORT

STOP

STA 252+26 RT
REMOVE SIGN & SUPPORT

STA 256+93 LT
SIGN TO
REMAIN IN PLACE

SPEED LIMIT 35

STA 258+01 LT
SIGN & SUPPORT TO
REMAIN IN PLACE

STOP

254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00

7TH AVE NE

STOP
EXIT ONLY

REMOVE
SALVAGE
(INSTALLED ON BACK
OF STOP SIGN POST)

STA 255+84 RT
REMOVE SIGN & SUPPORT

STOP

STA 258+60 RT
REMOVE SIGN & SUPPORT

STA 260+13 RT
REMOVE SIGN & SUPPORT

N

30 0 30 60
Scale Feet

CITY OF WEST FARGO

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PE-10621
DATE
NORTH DAKOTA

8/15/2025

Existing Signing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	15

STA 101+83 LT
SIGN & SUPPORT TO
REMAIN IN PLACE

STA 102+87 - 66.0' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 9
R4-7-24

F&I YELLOW FLEXIBLE
DELINEATORS - TYPE D

STA 103+47 - 42.7' LT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY I
R6-1R-36
(FACE NORTH)
R6-1L-36
(FACE SOUTH)

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00

9TH ST NE

MAIN AVE E

FRONTAGE RD

R2-1-24
R8-3-24
STA 105+34 - 35.4' RT
NEW SIGN ON LIGHT STANDARD
ASSEMBLY NO. 9
ASSEMBLY NO. 14

EXCEPTION: CITY OF WEST FARGO
IMPROVEMENT DISTRICT 2293,
CONSTRUCTED BY OTHERS

107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00

9TH ST NE

R3-8b-48
STA 107+09 - 47.8' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 37

BEGIN EXCEPTION
STA. 109+00.00 (9TH ST NE)

N

30 0 30 60
Scale Feet

SPEC CODE	BID ITEM	QTY	UNIT
754 193	FLEXIBLE DELINEATORS - TYPE D		
	MAIN AVE MEDIAN	2	EA

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STEVEN L. STRACK
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DATE
NORTH DAKOTA

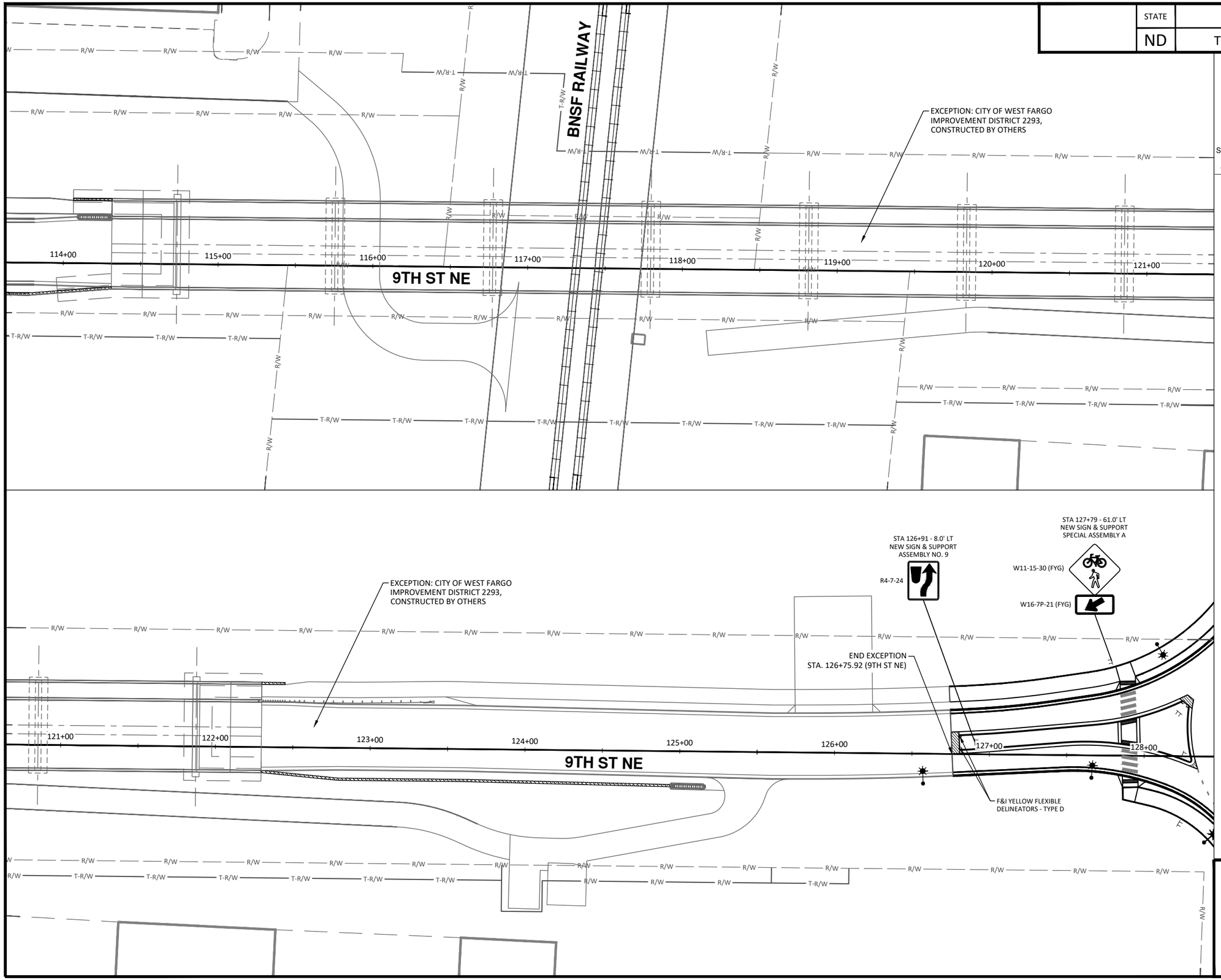
8/15/2025

Proposed Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	16



N

30 0 30 60
Scale Feet

SPEC CODE	BID ITEM	QTY	UNIT
754 193	FLEXIBLE DELINEATORS - TYPE D SPLITTER ISLAND - SOUTH	2	EA

CITY OF WEST FARGO

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STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Proposed Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	17

STA 128+86 - 14.0' RT
STA 129+62 - 43.3' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 27
ONEWAY R6-1R-36
OM1-1
STA 128+22 - 28.4' LT
NEW SIGN & SUPPORT
REFER TO D-754-47
SN 5 9th St
F&I YELLOW FLEXIBLE DELINEATOR - TYPE D
STA 130+18 - 28.5' LT
STA 130+27 - 75.4' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 4
YIELD R1-2-36
STA 131+48 - 0.0' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 9
R4-7-24
STA 133+76 - 37.5' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 19
W2-6-30
127+00
128+00
129+00
130+00
131+00
132+00
133+00
134+00
9TH ST NE
F&I YELLOW FLEXIBLE DELINEATOR - TYPE D
F&I YELLOW FLEXIBLE DELINEATOR - TYPE D
F&I WHITE FLEXIBLE DELINEATOR - TYPE D
FRONTAGE RD
7TH AVE NE
YIELD R1-2-36
STA 128+23 - 43.3' RT
STA 128+25 - 1.5' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 4
9th St SN 5
STA 130+15 - 6.6' RT
NEW SIGN & SUPPORT
REFER TO D-754-47
SPEED LIMIT 35 R2-1-24
STA 131+42 - 25.5' RT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 9
CENTER LANE ONLY R3-9b-24
STA 132+98 - 25.5' RT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 22
ONEWAY R6-1R-36
STA 133+64 - 23.0' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 27
STA 137+30 - 48.2' LT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY B
SN 2 (BACK TO BACK) 9th Ave NE
SN 7 (BACK TO BACK) 9th St NE
R1-1-30 STOP
W16-21P-24 2-WAY BICYCLE CROSS TRAFFIC
9TH AVE NE
STA 140+01 - 36.5' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 22
CENTER LANE ONLY R3-9b-24
134+00
135+00
136+00
137+00
138+00
139+00
140+00
141+00
9TH ST NE
FRONTAGE RD
F&I WHITE FLEXIBLE DELINEATOR - TYPE D
F&I WHITE FLEXIBLE DELINEATOR - TYPE D
ONEWAY R6-1R-36
STA 134+75 - 23.0' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 27
ONEWAY R6-1R-36
STA 137+46 - 23.0' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 27
ONEWAY R6-1L-36 (SIGN TO FACE WEST)
ONEWAY R6-1R-36 (SIGN TO FACE EAST)
DO NOT ENTER R5-1-30 (SIGN TO FACE NORTH)
STA 138+59 - 33.2' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY C
ONEWAY R6-1L-36 (SIGN TO FACE WEST)
ONEWAY R6-1R-36 (SIGN TO FACE EAST)
STOP R1-1-30 (SIGN TO FACE EAST)
STA 139+48 - 30.0' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY D
ONEWAY R6-1R-36
STA 140+38 - 22.5' RT
STA 140+98 - 22.5' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 27

N

30 0 30 60
Scale Feet

SPEC	CODE	BID ITEM	QTY	UNIT
754	193	FLEXIBLE DELINEATORS - TYPE D		
		SPLITTER ISLAND - SOUTH	2	EA
		SPLITTER ISLAND - NORTH	4	EA
		FRONTAGE ROAD MEDIAN	9	EA
754	801	OBJECT MARKER - TYPE I		
		CENTER ISLAND	2	EA

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Proposed Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CADD_CITY PROJECT\Plans\110 - 9th St NE Signing_Proposed.dwg-Signing (3)-8/15/2025 7:01 AM-(jrenner)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	18

STA 142+65 - 33.4' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY C

R6-1L-36 (SIGN TO FACE WEST)
R6-1R-36 (SIGN TO FACE EAST)
R5-1-30 (SIGN TO FACE NORTH)

STA 141+77 - 22.5' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 27

R6-1R-36

STA 145+38 - 52.0' LT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY B

SN 3 (BACK TO BACK)
SN 7 (BACK TO BACK)
R1-1-30
W16-21P-24 (2-WAY BICYCLE CROSS TRAFFIC)

STA 147+70 - 24.0' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 22

R3-9b-24

11TH AVE NE

9TH ST NE

141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00

FRONTAGE RD

F&I WHITE FLEXIBLE DELINEATOR - TYPE D

10TH AVE NE

STA 142+53 - 63.6' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 1

R1-1-30

STA 143+42 - 40.4' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 1

R1-1-30

STA 143+94 - 25.5' RT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 22

R3-9b-24

STA 151+51 - 49.4' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 15

R3-7-30

STA 153+34 - 11.9' LT
NEW SIGN & SUPPORT
REFER TO D-754-47

SN 5

STA 153+82 - 29.7' RT
STA 154+70 - 9.7' LT
NEW SIGN & SUPPORT
REFER TO D-754-47

R6-1R-48
OM1-1

STA 149+20 - 24.0' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 9

R2-1-24

148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00

9TH ST NE

F&I YELLOW FLEXIBLE DELINEATOR - TYPE D

F&I YELLOW FLEXIBLE DELINEATOR - TYPE D

W2-6-30

STA 149+97 - 25.5' RT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 19

R3-8MA-42

STA 151+46 - 29.5' RT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 36

R4-7-24

STA 152+89 - 4.5' LT
NEW SIGN & SUPPORT
ASSEMBLY NO. 9

R1-2-36

STA 153+31 - 14.5' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 4

30 0 30 60
Scale Feet

SPEC	CODE	BID ITEM	QTY	UNIT
754	193	FLEXIBLE DELINEATORS - TYPE D		
		FRONTAGE ROAD MEDIAN	3	EA
		SPLITTER ISLAND - SOUTH	4	EA
754	801	OBJECT MARKER - TYPE I		
		CENTER ISLAND	2	EA

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PE-10621
DATE
NORTH DAKOTA

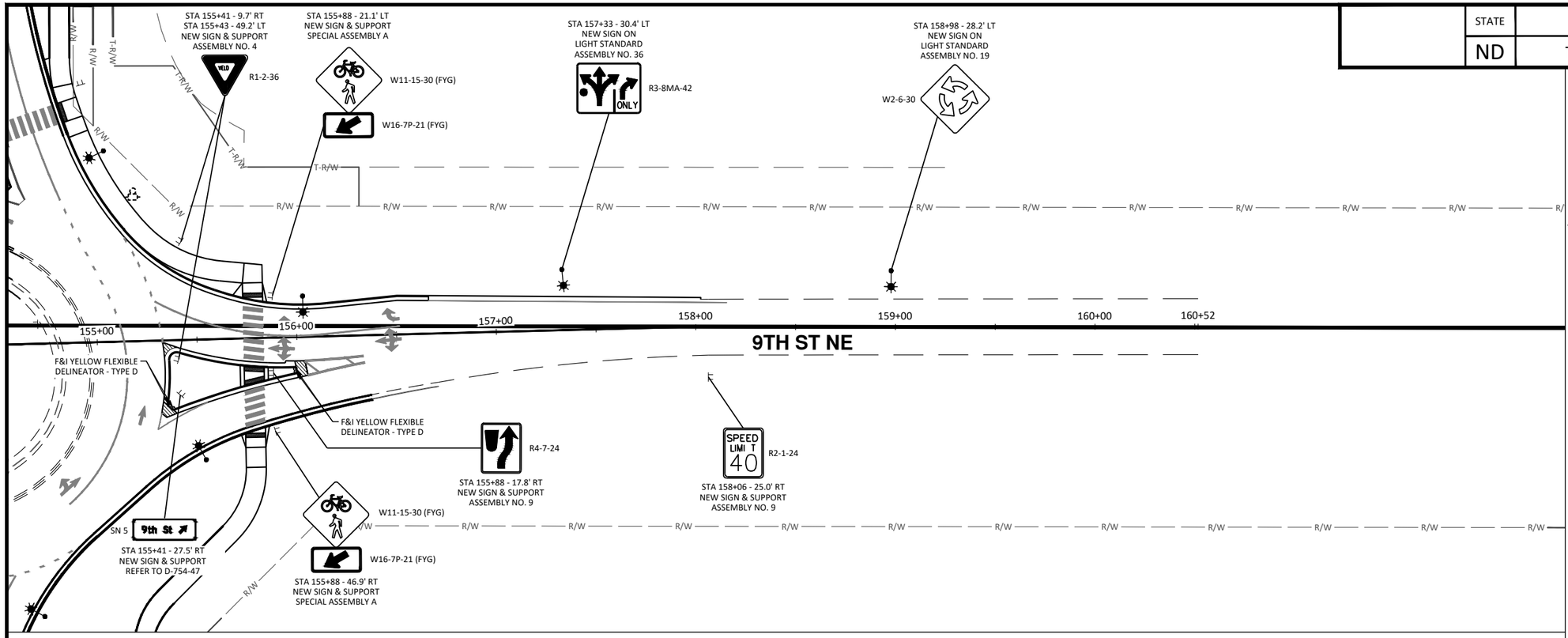
8/15/2025

Proposed Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	19



N

30 0 30 60
Scale Feet

SPEC CODE	BID ITEM	QTY	UNIT
754 193	FLEXIBLE DELINEATORS - TYPE D		
	SPLITTER ISLAND - NORTH	4	EA

CITY OF WEST FARGO

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DATE
NORTH DAKOTA

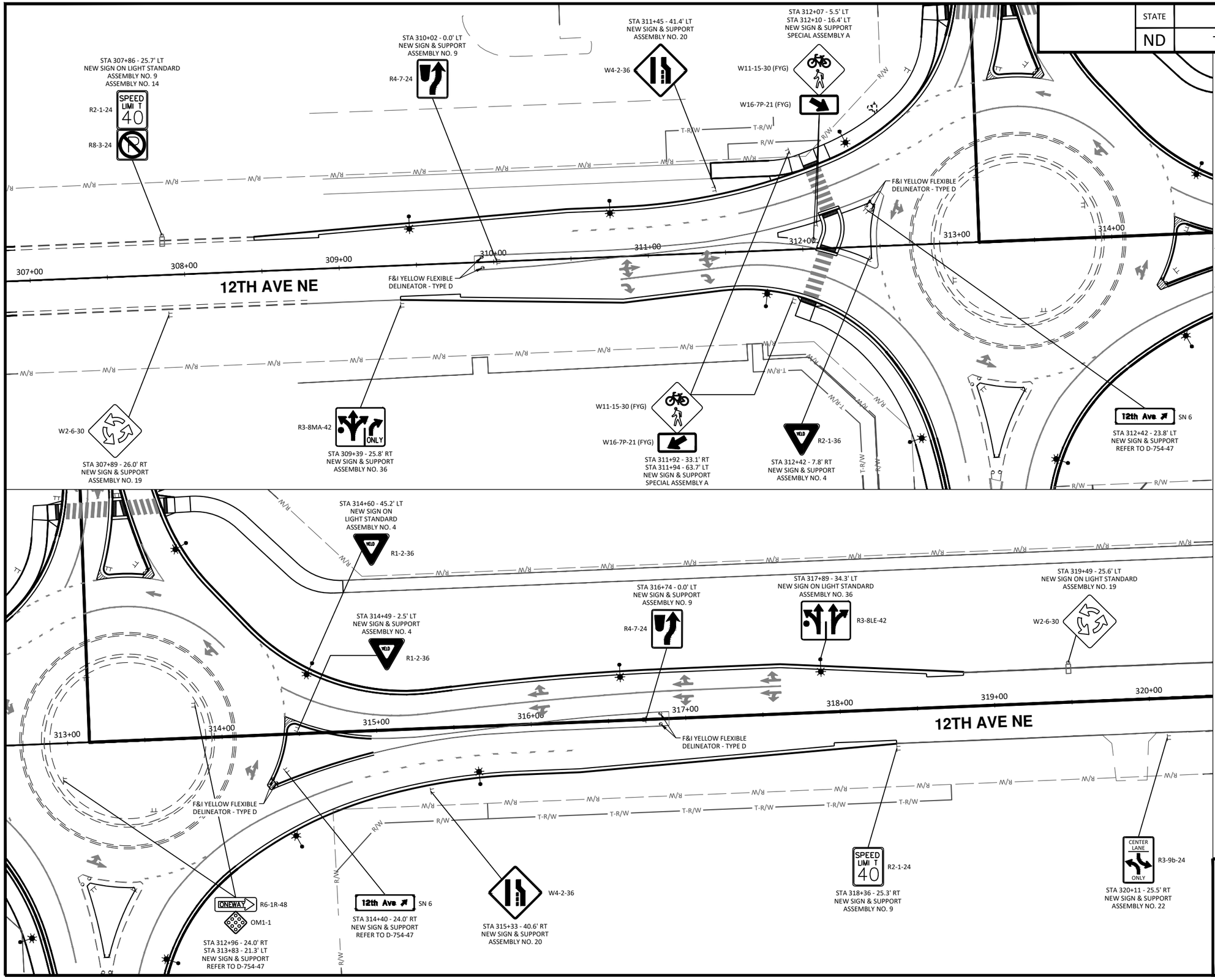
8/15/2025

Proposed Signing - 9th St NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	20



SPEC	CODE	BID ITEM	QTY	UNIT
754	193	FLEXIBLE DELINEATORS - TYPE D		
		SPLITTER ISLAND - WEST	4	EA
		SPLITTER ISLAND - EAST	4	EA
754	801	OBJECT MARKER - TYPE I		
		CENTER ISLAND	2	EA

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DATE
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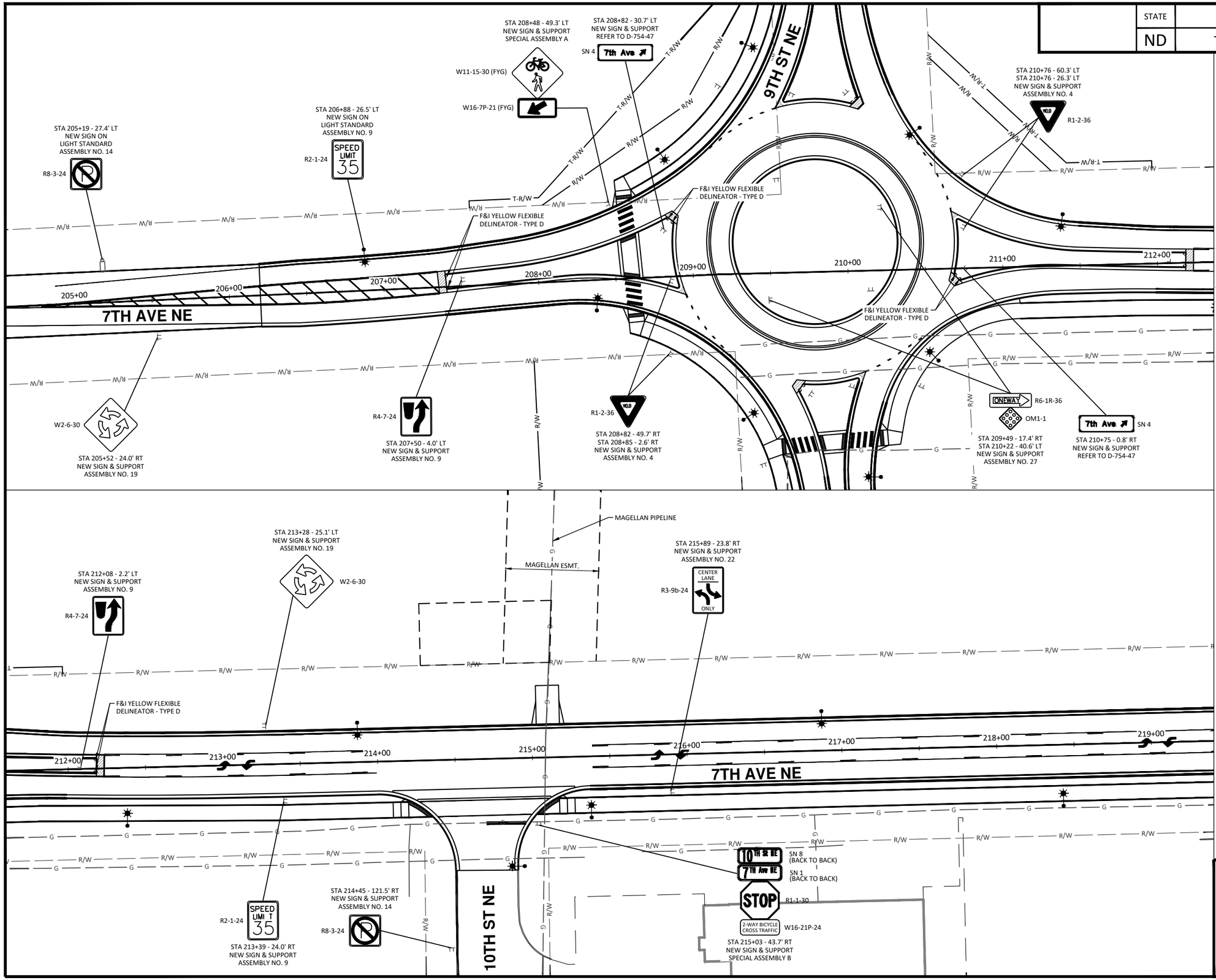
8/15/2025

Proposed Signing - 12th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - 9th St NE Signing_Proposed.dwg-Signing (6)-8/15/2025 7:01 AM-(jrenner)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	21



N

30 0 30 60

Scale Feet

SPEC	CODE	BID ITEM	QTY	UNIT
754	193	FLEXIBLE DELINEATORS - TYPE D		
		SPLITTER ISLAND - WEST	4	EA
		SPLITTER ISLAND - EAST	4	EA
754	801	OBJECT MARKER - TYPE I		
		CENTER ISLAND	2	EA

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PE-10621
DATE
NORTH DAKOTA

8/15/2025

Proposed Signing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\BN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - 7th Ave NE Signing_Proposed.dwg Signing (1)-8/15/2025 7:02 AM-(jrenner)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	22

7TH AVE NE

219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00

13TH ST NE

STA 223+09 RT
SIGN & SUPPORT TO
REMAIN IN PLACE

NO PARKING

STA 223+57 - 131.5' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 14

R8-3-24

13TH ST NE

SN 9
(BACK TO BACK)

SN 1
(BACK TO BACK)

STOP R1-1-30

2-WAY BICYCLE CROSS TRAFFIC W16-21P-24

STA 223+67 - 44.2' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY B

STA 226+57 - 25.5' LT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 22

CENTER LANE ONLY R3-9b-24

226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00

7TH AVE NE

STA 227+84 - 24.0' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 22

CENTER LANE ONLY R3-9b-24

STA 232+11 - 120.8' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 14

R8-3-24

16TH ST NE

SN 10
(BACK TO BACK)

SN 1
(BACK TO BACK)

STOP R1-1-30

2-WAY BICYCLE CROSS TRAFFIC W16-21P-24

STA 232+67 - 44.4' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY B

N

30 0 30 60
Scale Feet

CITY OF WEST FARGO

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STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Proposed Signing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	23

STA 235+97 - 27.0' LT
RESET SIGN ON NEW SUPPORT
SPECIAL ASSEMBLY E

CITY OF WEST FARGO — RESET
WELCOMES YOU — RESET
72HR PARKING PERMITTED ON WEST FARGO CITY STREETS — RESET

STA 233+17 - 25.5' LT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 9

R2-1-24 SPEED LIMIT 35

233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00

7TH AVE NE

R2-1-24 SPEED LIMIT 35

STA 237+82 - 24.0' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 9

STA 244+18 - 25.5' LT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 22

R3-9b-24 CENTER LANE ONLY

240+00 241+00 242+00 243+00 244+00 245+00 246+00 247+00

7TH AVE NE

R3-9b-24 CENTER LANE ONLY

STA 244+18 - 24.0' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 22

N

30 0 30 60
Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Proposed Signing - 7th Ave NE

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - 7th Ave NE Signing_ Proposed.dwg-Signing (3)-8/15/2025 7:02 AM-(jrenner)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	110	24

N

30 0 30 60

Scale Feet

7TH AVE NE

247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00

STOP R1-1-30
2-WAY BICYCLE CROSS TRAFFIC W16-21P-24
STA 252+28 - 41.6' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY F

STA 254+79 - 26.3' LT
NEW SIGN ON
LIGHT STANDARD
ASSEMBLY NO. 22
CENTER LANE ONLY R3-9b-24

STA 256+93 LT
SIGN TO
REMAIN IN PLACE
SPEED LIMIT 35

STA 258+01 LT
SIGN & SUPPORT TO
REMAIN IN PLACE
STOP

254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00

7TH AVE NE

R1-1-30 STOP EXIT ONLY RESET (BACK OF STOP SIGN)
W16-21P-24 2-WAY BICYCLE CROSS TRAFFIC
STA 255+83 - 41.6' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY G

END R3-9dP-24
CENTER LANE ONLY R3-9b-24
STA 257+74 - 23.2' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY H

STOP R1-1-30
2-WAY BICYCLE CROSS TRAFFIC W16-21P-24
STA 258+63 - 41.7' RT
NEW SIGN & SUPPORT
SPECIAL ASSEMBLY F

ONLY ONLY ONLY R3-8b-48
STA 260+13 - 38.3' RT
NEW SIGN & SUPPORT
ASSEMBLY NO. 37

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

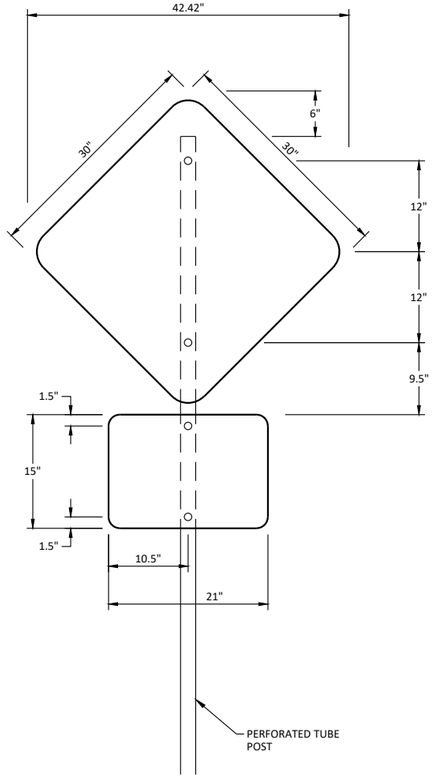
8/15/2025

Proposed Signing - 7th Ave NE

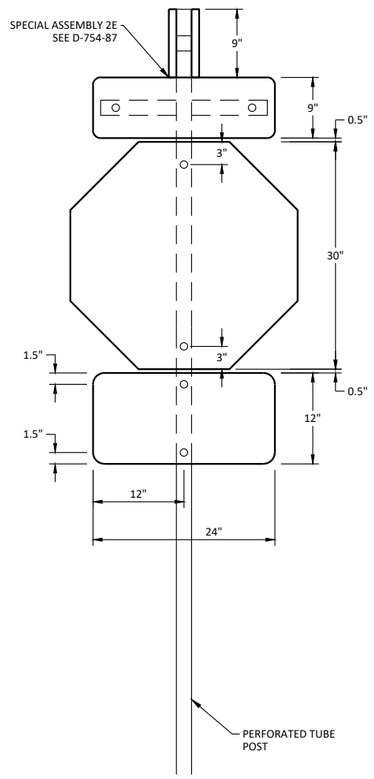
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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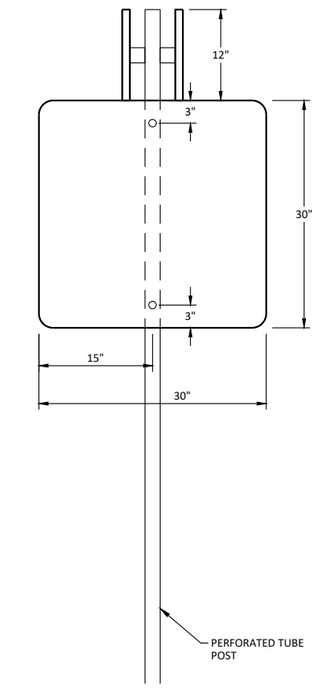
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	25



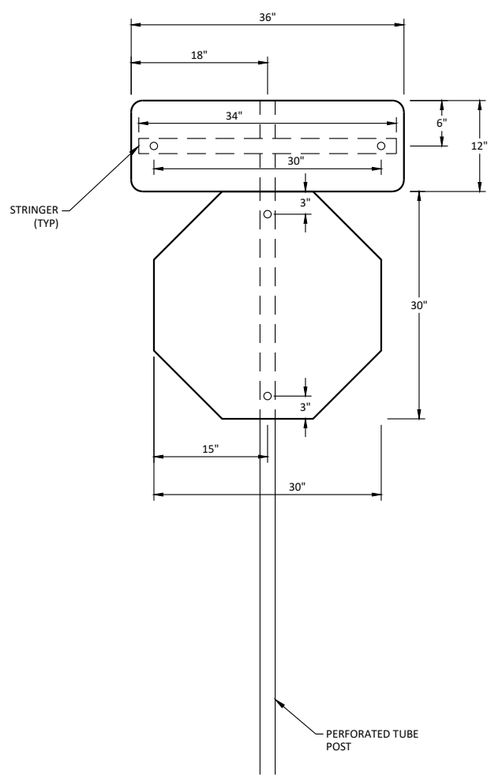
SPECIAL ASSEMBLY A



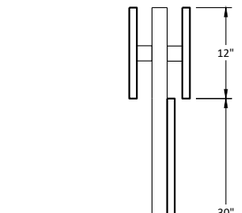
SPECIAL ASSEMBLY B



SPECIAL ASSEMBLY C



SPECIAL ASSEMBLY D



HOUSTON engineering, inc.

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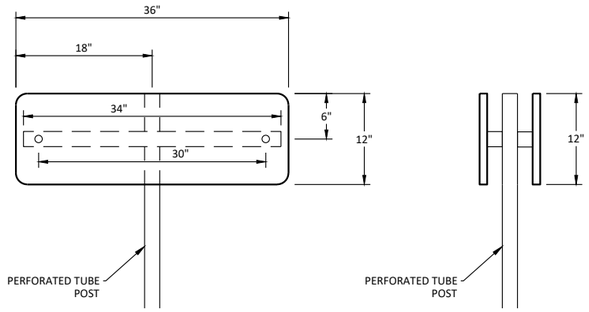
8/15/2025

Special Sign Assemblies

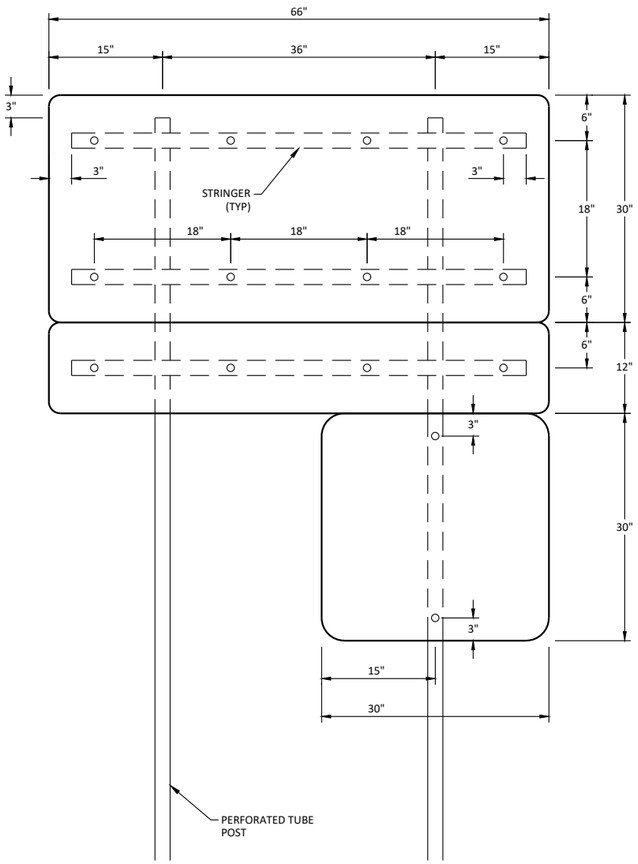
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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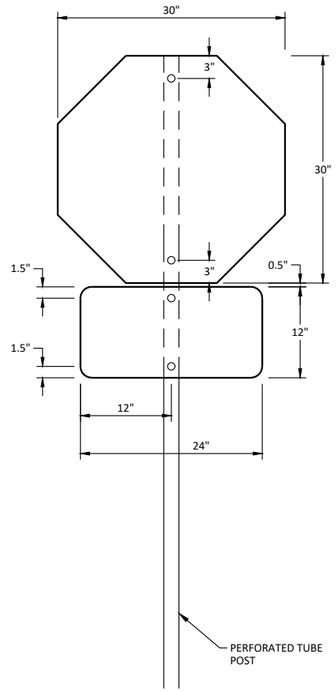
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	ND	TMA-SU-FXP-8-992(045)	110	26



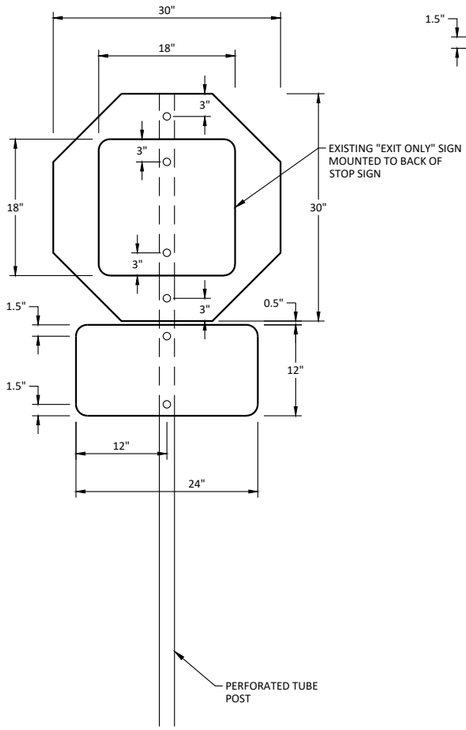
SPECIAL ASSEMBLY I



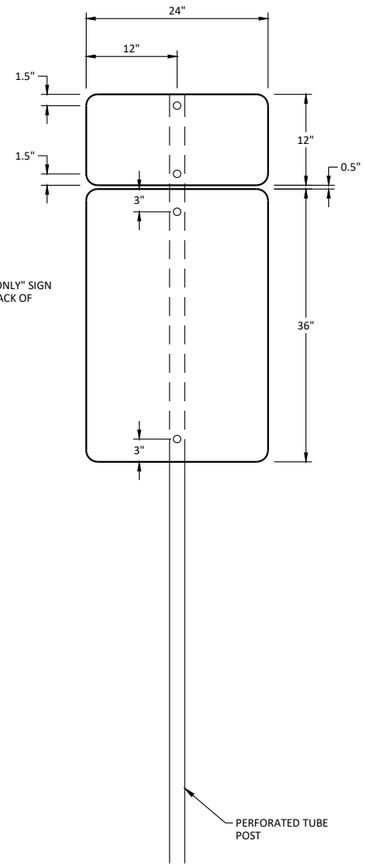
SPECIAL ASSEMBLY E



SPECIAL ASSEMBLY F



SPECIAL ASSEMBLY G



SPECIAL ASSEMBLY H

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Special Sign Assemblies

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\86000\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\110 - Signing Special Sign Assemblies.dwg-Spaecial Assemblies (2)-8/15/2025 7:02 AM-(jrenner)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	27

SIGN DETAIL
1:15



SIGN NUMBER	SN 1
WIDTH x HGHT.	2'-0" x 0'-9"
BORDER WIDTH	0.5" (0.5" Inset)
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: XI Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: WF Street Name
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE
7	T	H	A	v	e	N	E								B 2000
3.05	6.63	8.19	11.48	13.25	14.75	17.86	19.81							17.9	6,3,3/2.25

SIGN DETAIL
1:15



SIGN NUMBER	SN 2
WIDTH x HGHT.	2'-0" x 0'-9"
BORDER WIDTH	0.5" (0.5" Inset)
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: XI Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: WF Street Name
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE
9	T	H	A	v	e	N	E								B 2000
3.05	6.63	8.19	11.48	13.25	14.75	17.86	19.81							17.9	6,3,3/2.25

SIGN DETAIL
1:15



SIGN NUMBER	SN 3
WIDTH x HGHT.	2'-0" x 0'-9"
BORDER WIDTH	0.5" (0.5" Inset)
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: XI Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: WF Street Name
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE
1	1	T	H	A	v	e	N	E							B 2000
2.6	4.82	7.08	8.64	11.93	13.7	15.2	18.31	20.26						18.8	6,3,3/2.25

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

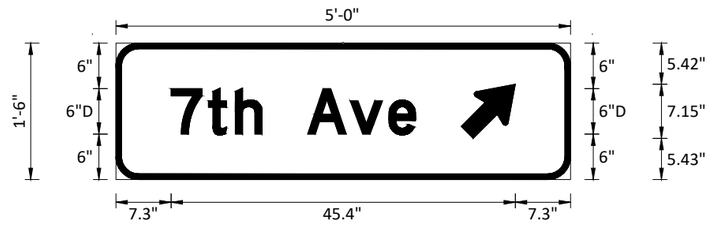
Sign Details

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	28

SIGN DETAIL
1:15



SIGN NUMBER	SN 4
WIDTH x HGHT.	5'-0" x 1'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

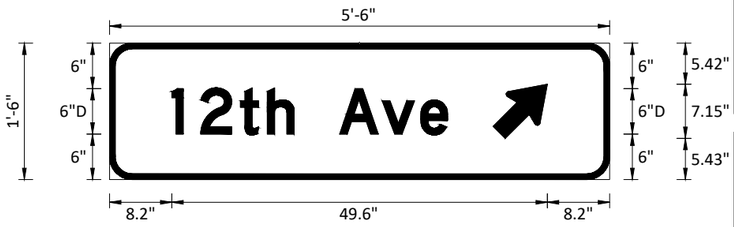
SYMBOL	ROT	X	Y	WID	HT
ND_6IN_Type D	315	45.56	5.42	6	9

Panel Style: ND_Conv_Destination
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE
7	t	h	A	v	e																D 2000
7.28	12.2	15.76	25.3	30.92	36.02															32.28	6/4.5

SIGN DETAIL
1:15



SIGN NUMBER	SN 6
WIDTH x HGHT.	5'-6" x 1'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

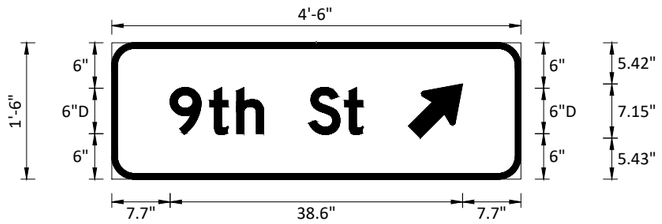
SYMBOL	ROT	X	Y	WID	HT
ND_6IN_Type D	315	50.63	5.43	6	9

Panel Style: ND_Conv_Destination
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																					LENGTH	SERIES/SIZE
1	2	t	h	A	v	e																D 2000
8.22	12.03	17.27	20.82	30.36	35.99	41.09															36.41	6/4.5

SIGN DETAIL
1:15



SIGN NUMBER	SN 5
WIDTH x HGHT.	4'-6" x 1'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: IV Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT
ND_6IN_Type D	315	39.14	5.43	6	9

Panel Style: ND_Conv_Destination
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																					LENGTH	SERIES/SIZE
9	t	h	S	t																		D 2000
7.7	12.94	16.49	26.03	30.74																	25.44	6/4.5

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/15/2025

Sign Details

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	110	29

SIGN DETAIL
1:15



SIGN NUMBER	SN 7
WIDTH x HGHT.	2'-0" x 0'-9"
BORDER WIDTH	0.5" (0.5" Inset)
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: XI Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: WF Street Name
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE
9	T	H	S	t	N	E									B 2000
4.07	7.65	9.21	12.5	13.94	16.84	18.79								15.86	6,3,3/2.25

SIGN DETAIL
1:15



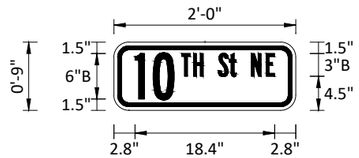
SIGN NUMBER	SN 9
WIDTH x HGHT.	2'-0" x 0'-9"
BORDER WIDTH	0.5" (0.5" Inset)
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: XI Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: WF Street Name
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE
1	3	T	H	S	t	N	E								B 2000
3.02	5.12	8.7	10.26	13.55	14.99	17.89	19.84							17.96	6,3,3/2.25

SIGN DETAIL
1:15



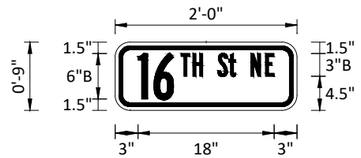
SIGN NUMBER	SN 8
WIDTH x HGHT.	2'-0" x 0'-9"
BORDER WIDTH	0.5" (0.5" Inset)
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: XI Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: WF Street Name
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE
1	0	T	H	S	t	N	E								B 2000
2.78	5.18	8.94	10.5	13.79	15.23	18.13	20.08							18.44	6,3,3/2.25

SIGN DETAIL
1:15



SIGN NUMBER	SN 10
WIDTH x HGHT.	2'-0" x 0'-9"
BORDER WIDTH	0.5" (0.5" Inset)
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: XI Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: WF Street Name
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE
1	6	T	H	S	t	N	E								B 2000
3.02	5.12	8.7	10.26	13.55	14.99	17.89	19.84							17.96	6,3,3/2.25

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NORTH DAKOTA

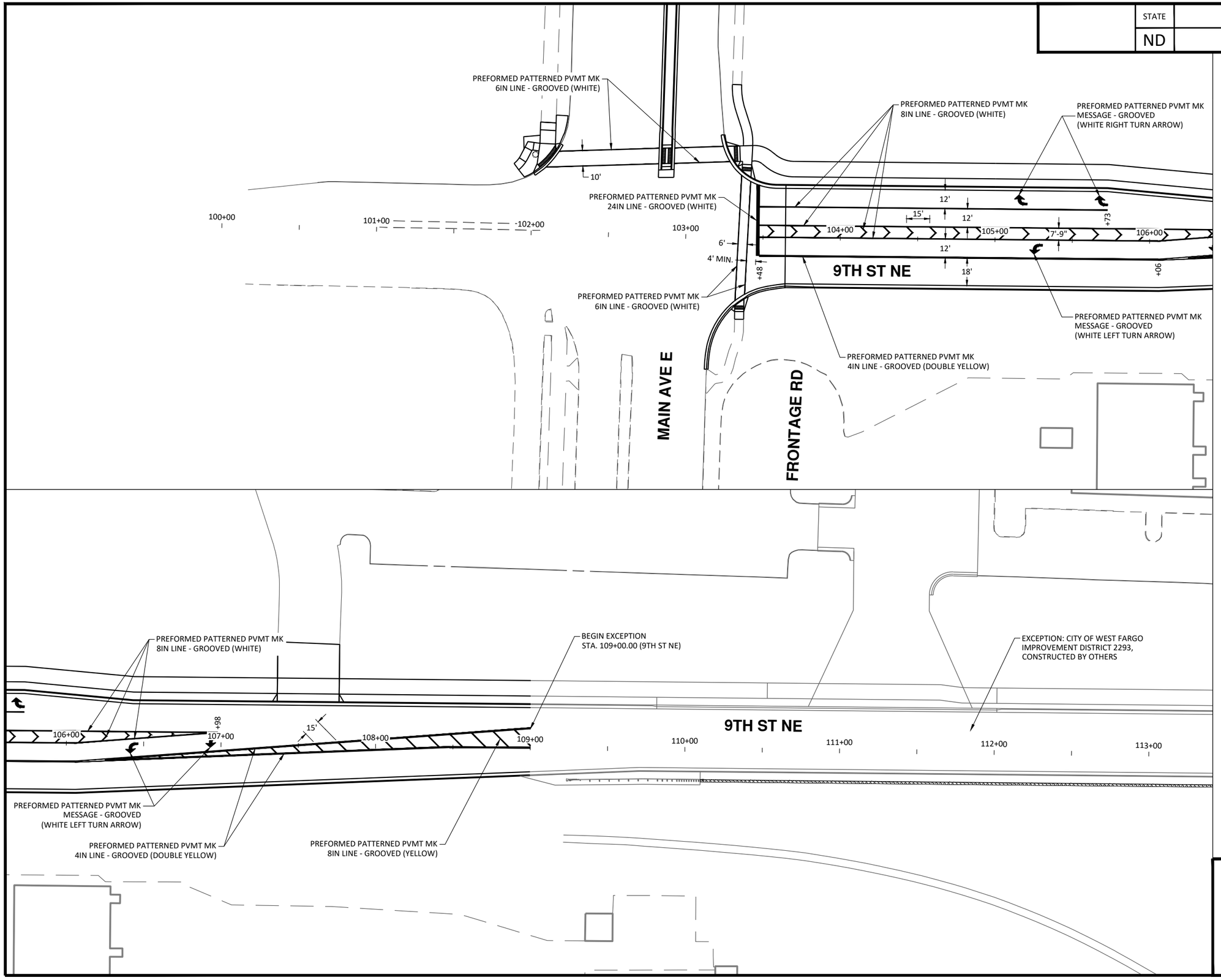
8/15/2025

Sign Details

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	1



N

30 0 30 60
Scale Feet

CITY OF WEST FARGO

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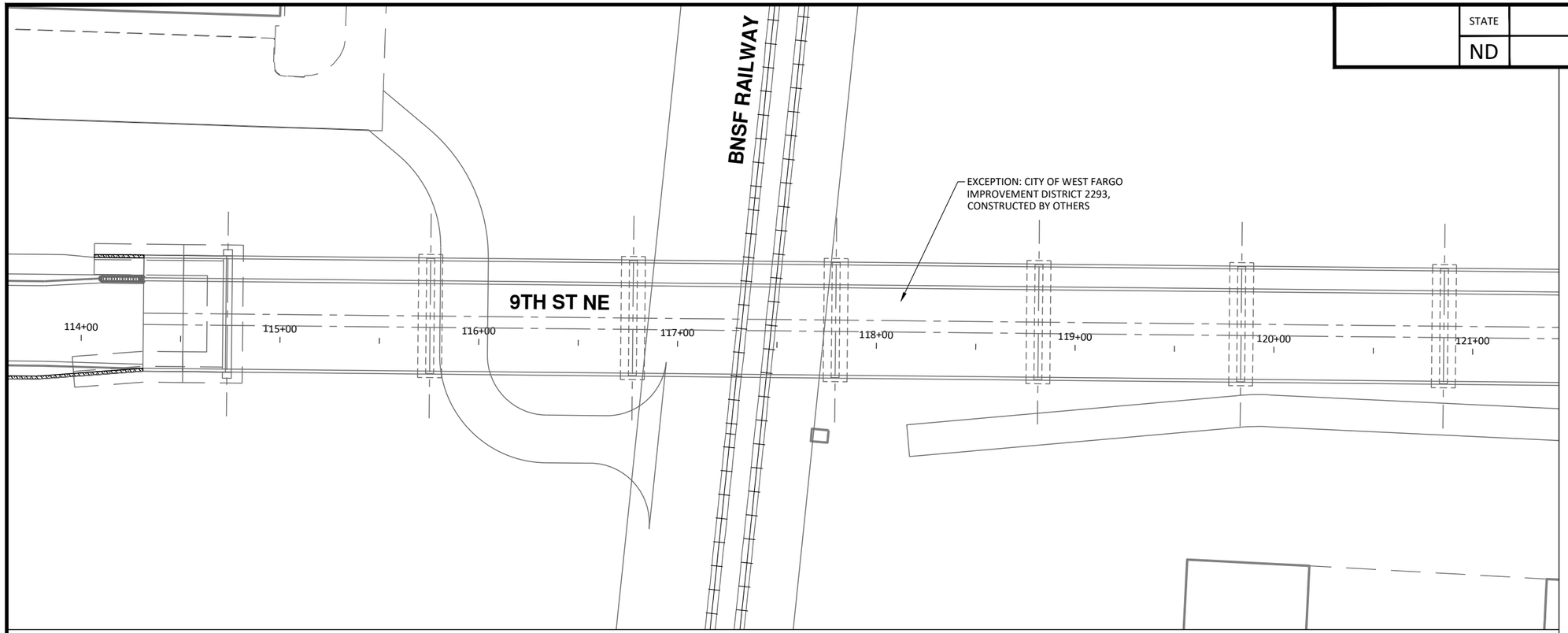
8/1/2025

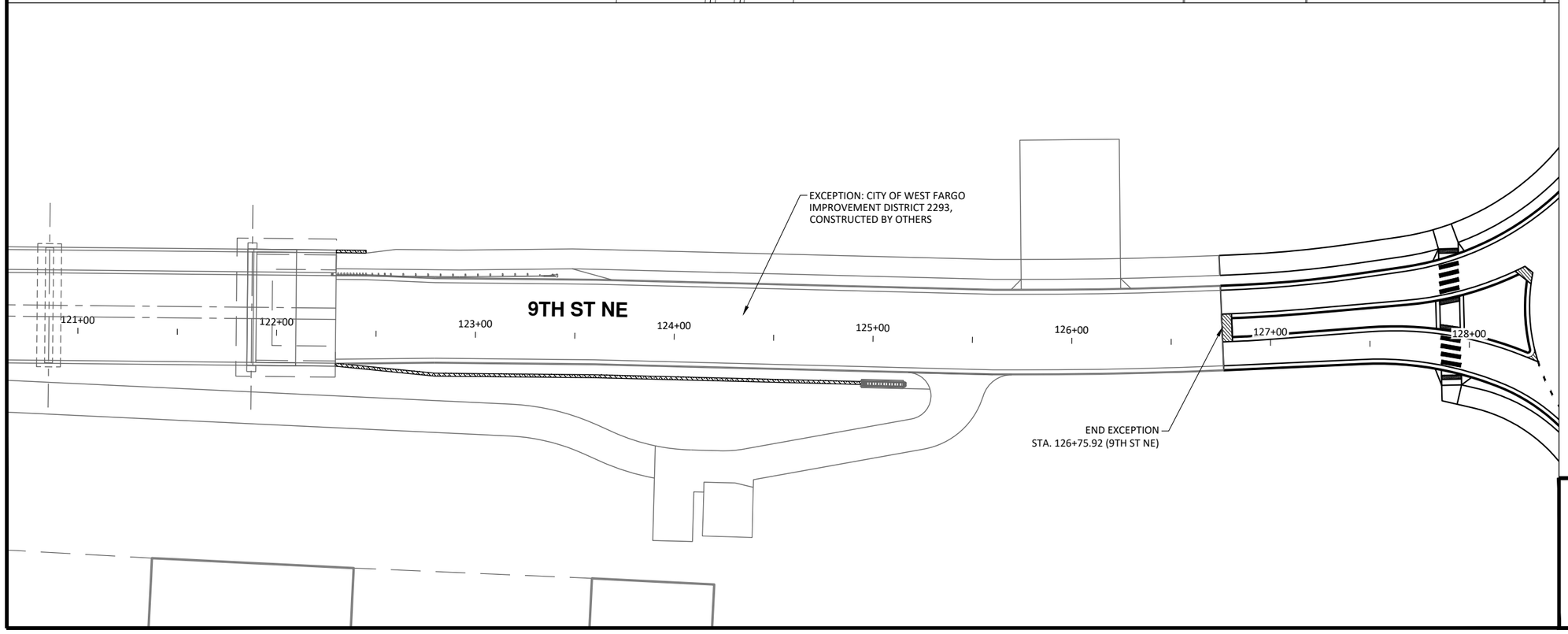
Pavement Markings - 9th St NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	2





N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

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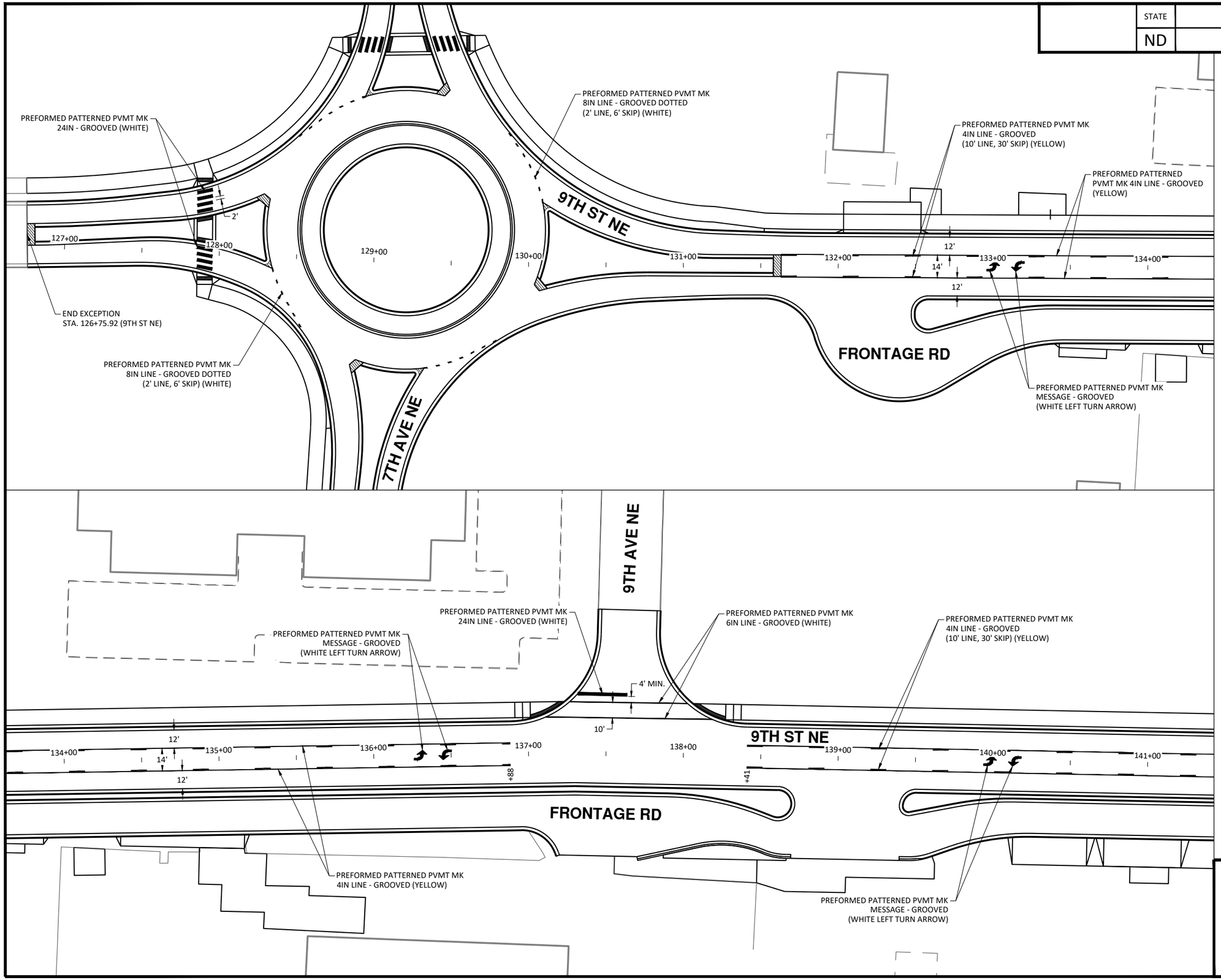
8/1/2025

Pavement Markings - 9th St NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\Plans\120 - Pavement Marking.dwg-Pvmt Mk (2)-8/1/2025 3:39 PM-(kstrecker)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	3



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

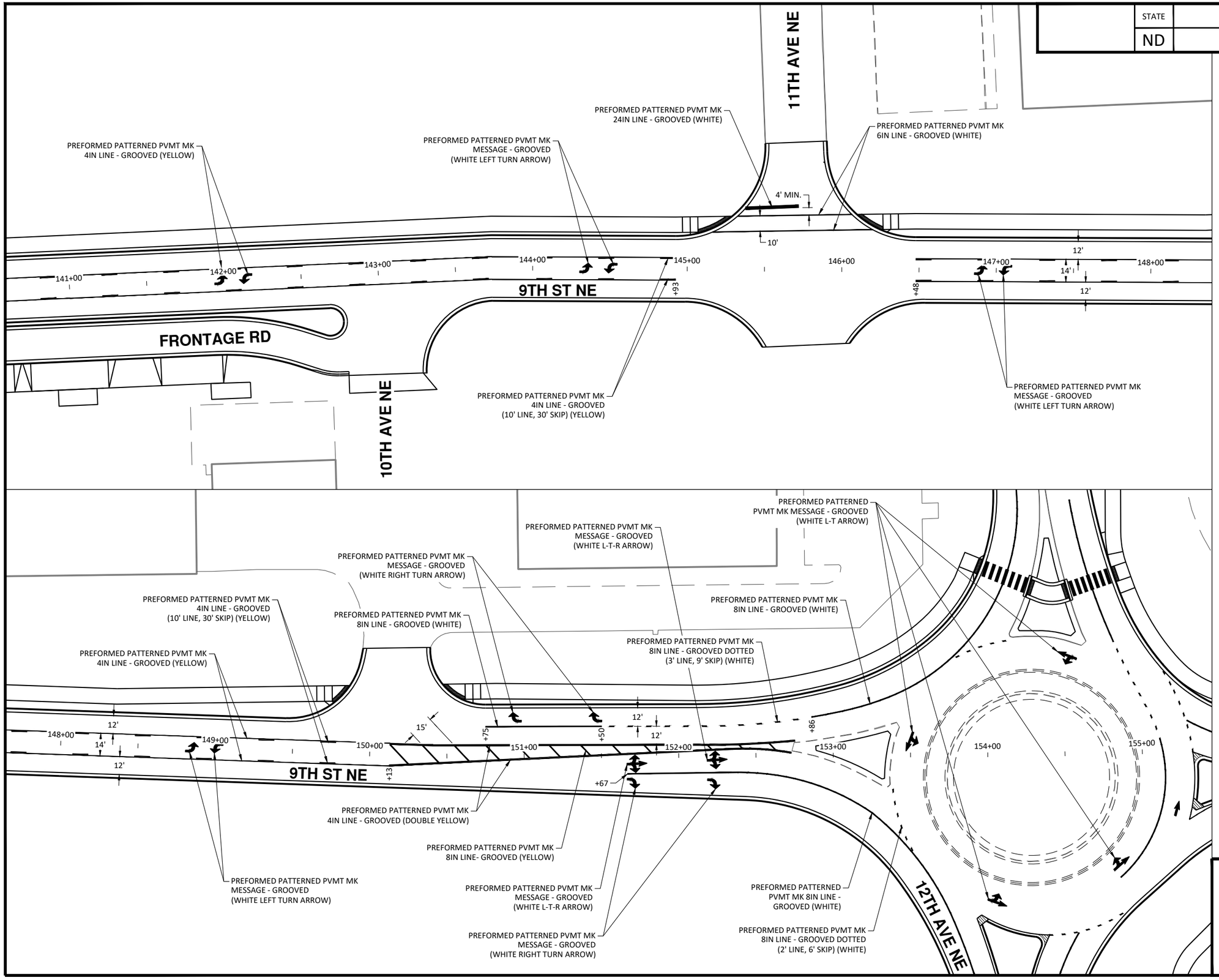
8/1/2025

Pavement Markings - 9th St NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\Plans\120 - Pavement Marking.dwg-Pvmt Mk (3)-8/1/2025 3:40 PM-(kstrecker)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	4



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

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NORTH DAKOTA

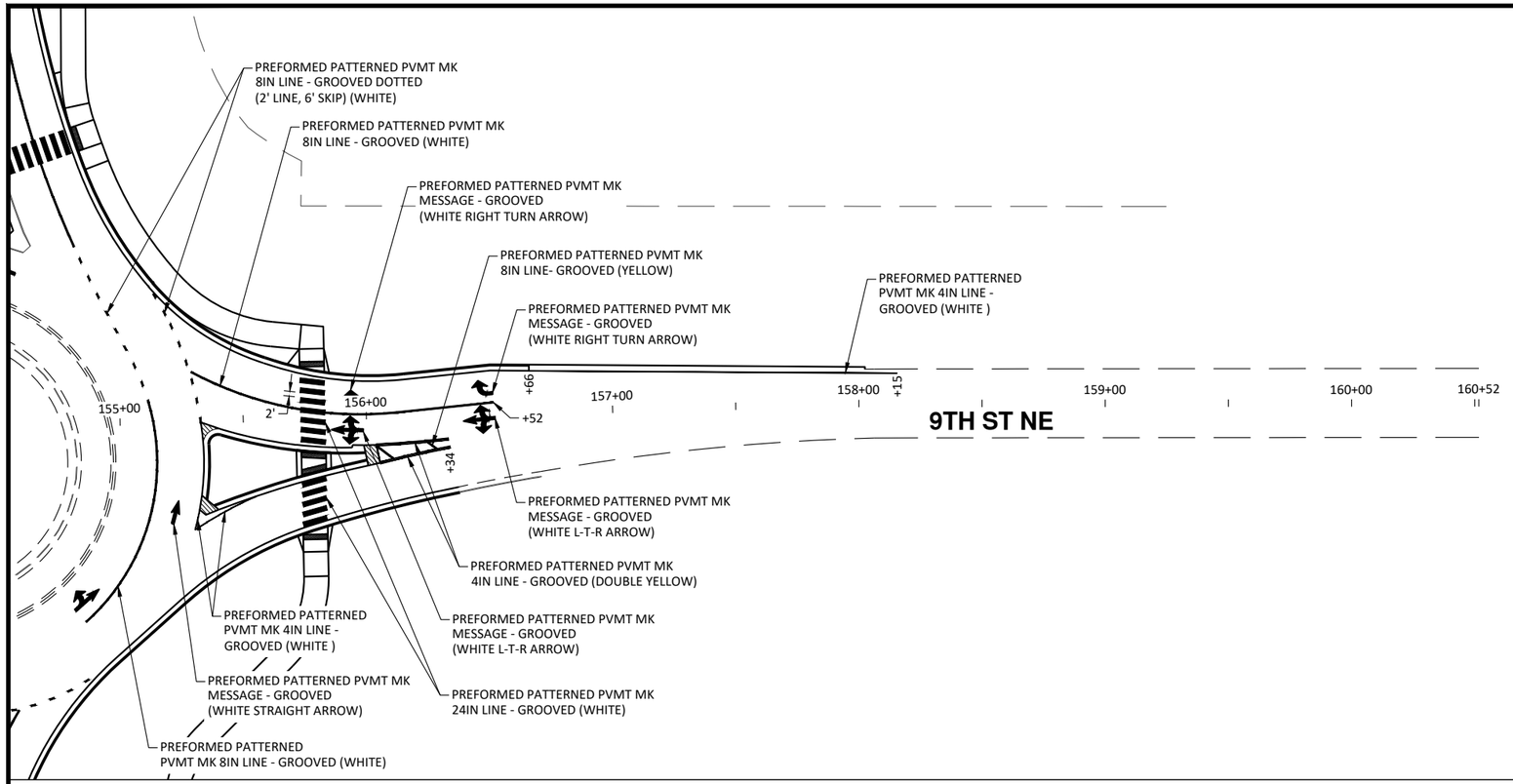
8/1/2025

Pavement Markings - 9th St NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	5



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

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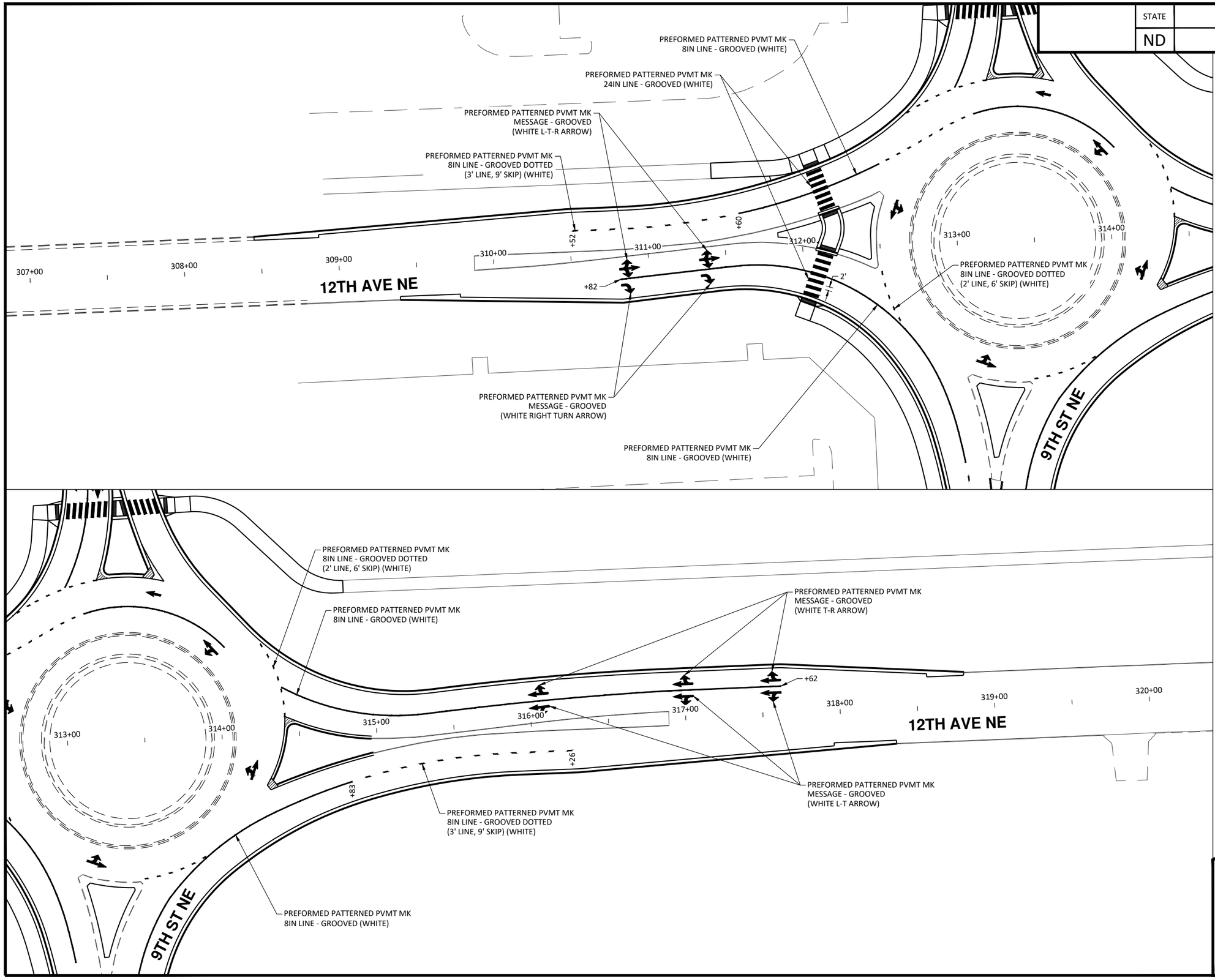
8/1/2025

Pavement Markings - 9th St NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\Plans\120 - Pavement Marking.dwg-Pvmt Mk (5)-8/1/2025 3:40 PM-(kstrecker)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SU-8-992(045)	120	6



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

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NORTH DAKOTA

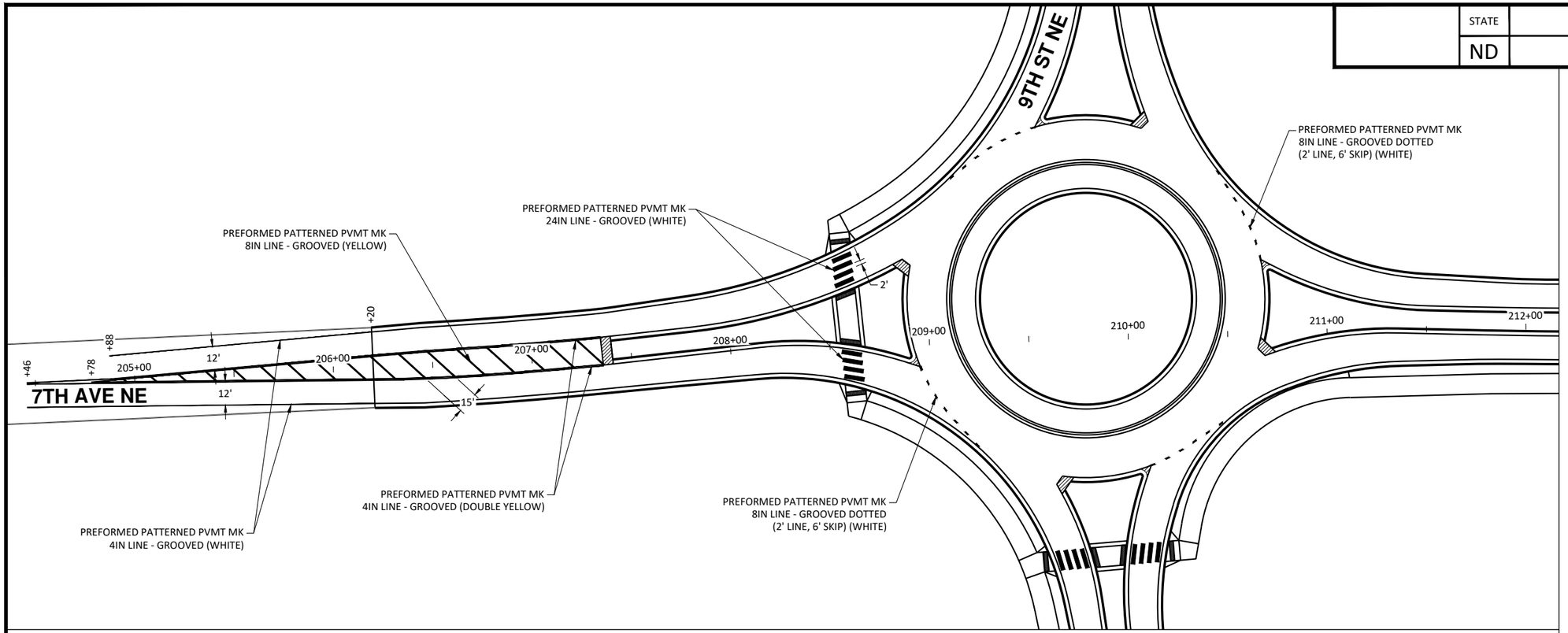
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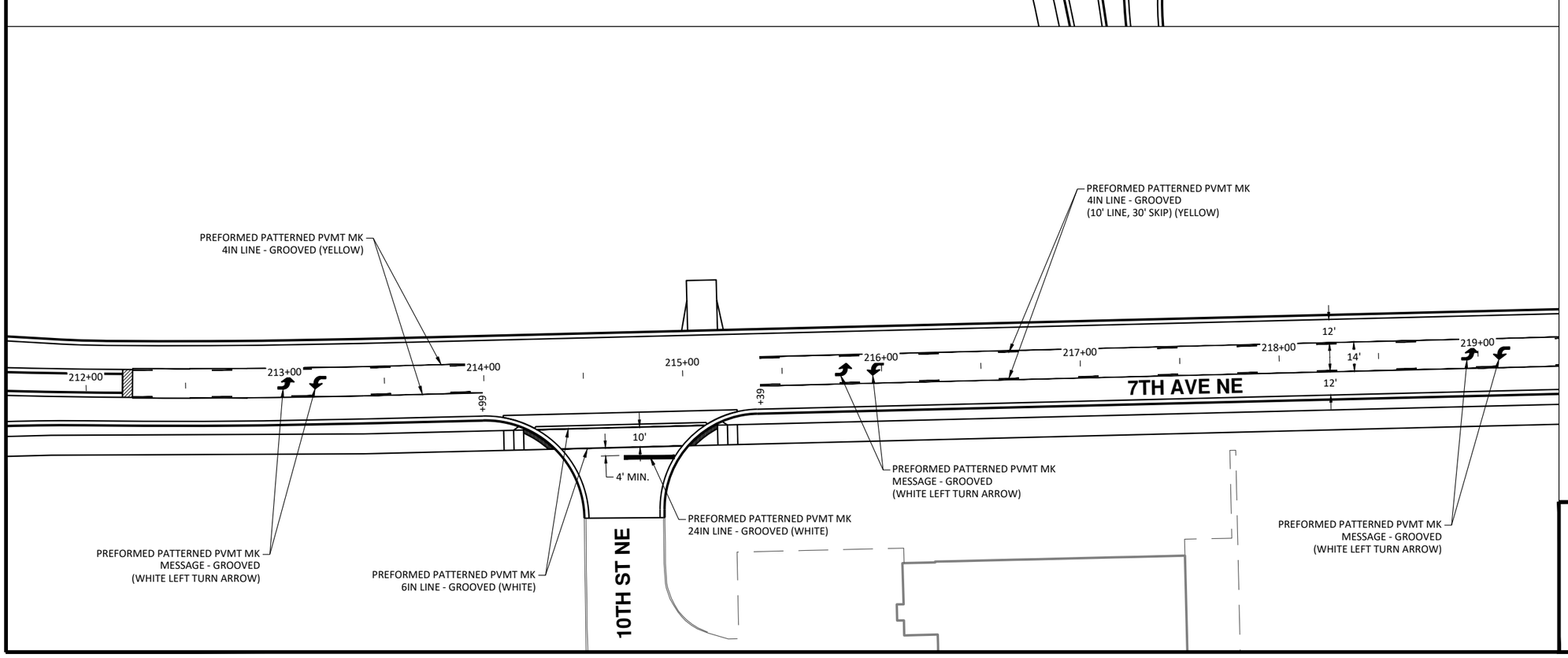
Pavement Markings - 12th Ave NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	7





N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

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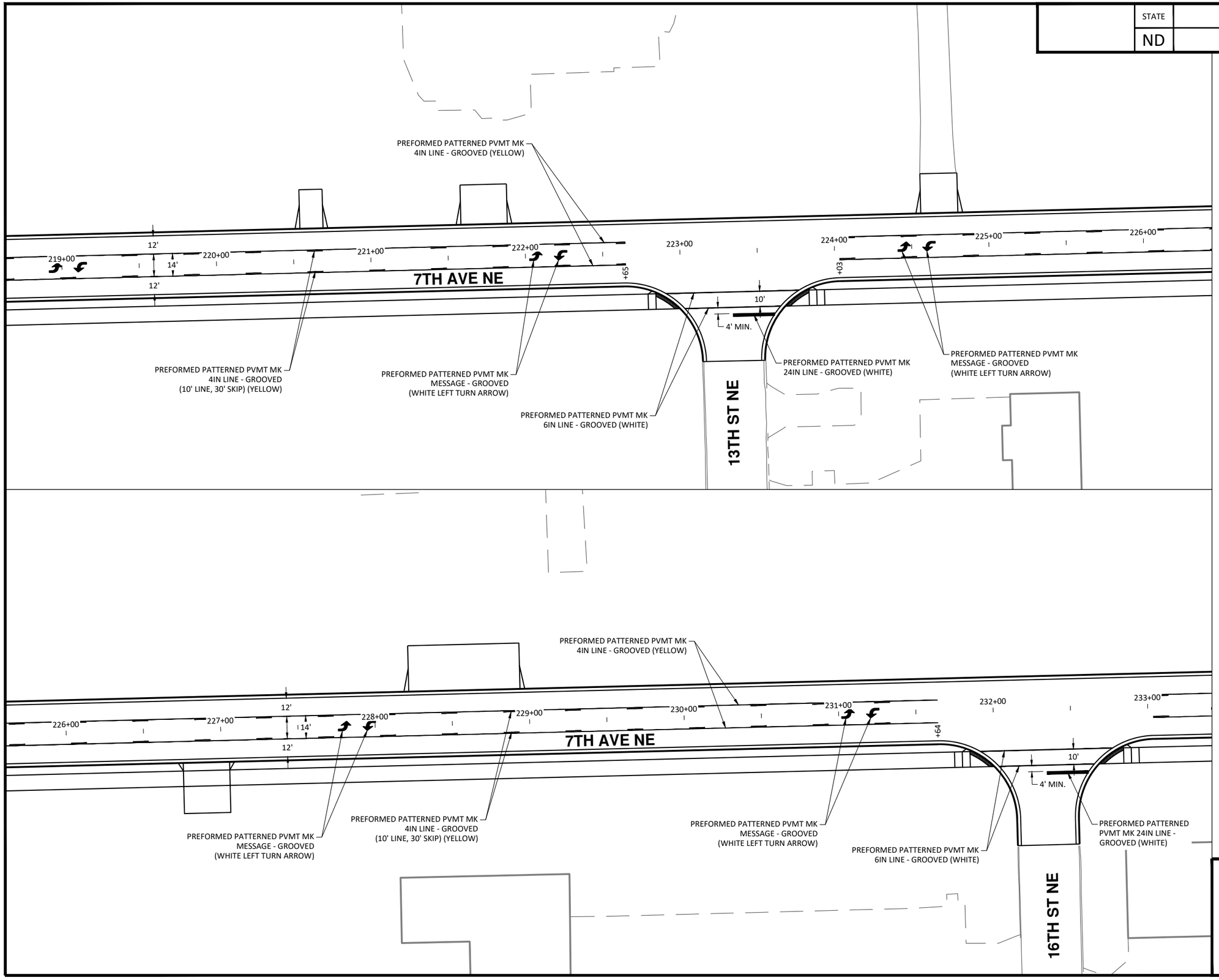
8/1/2025

Pavement Markings - 7th Ave NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	8



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

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NORTH DAKOTA

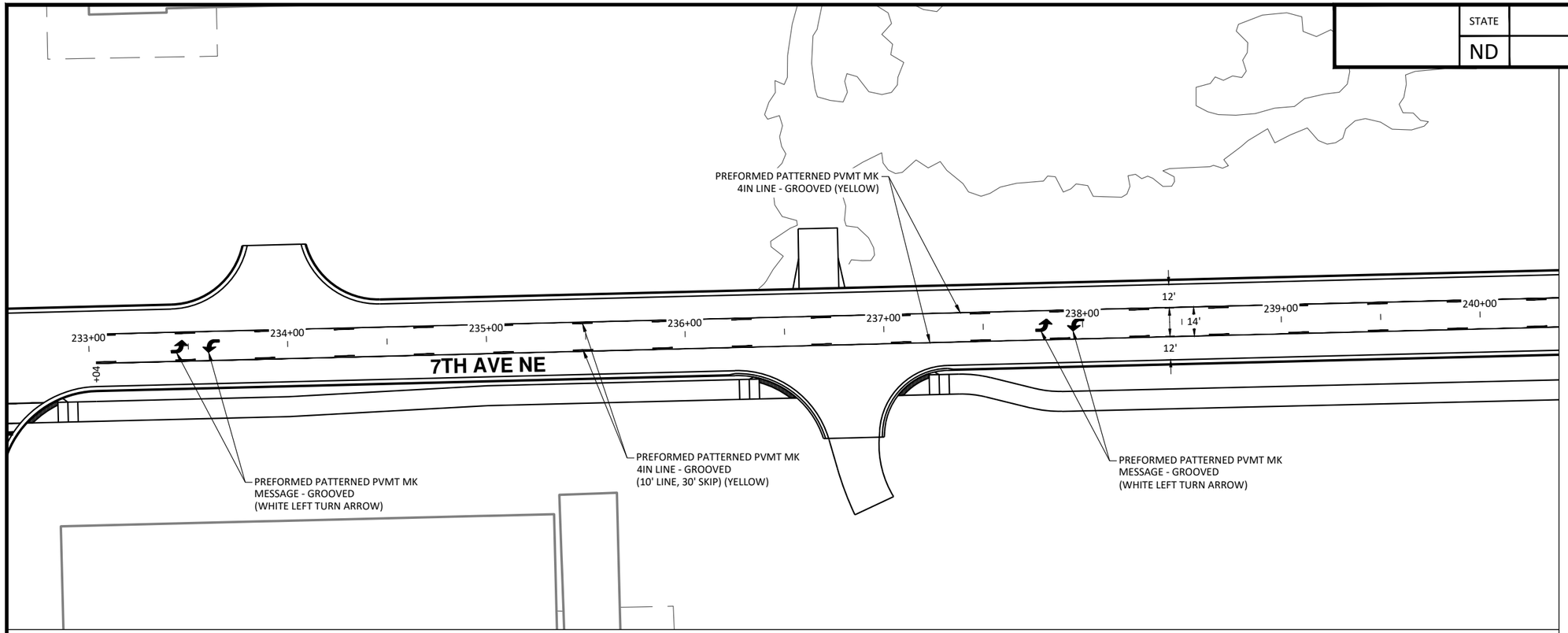
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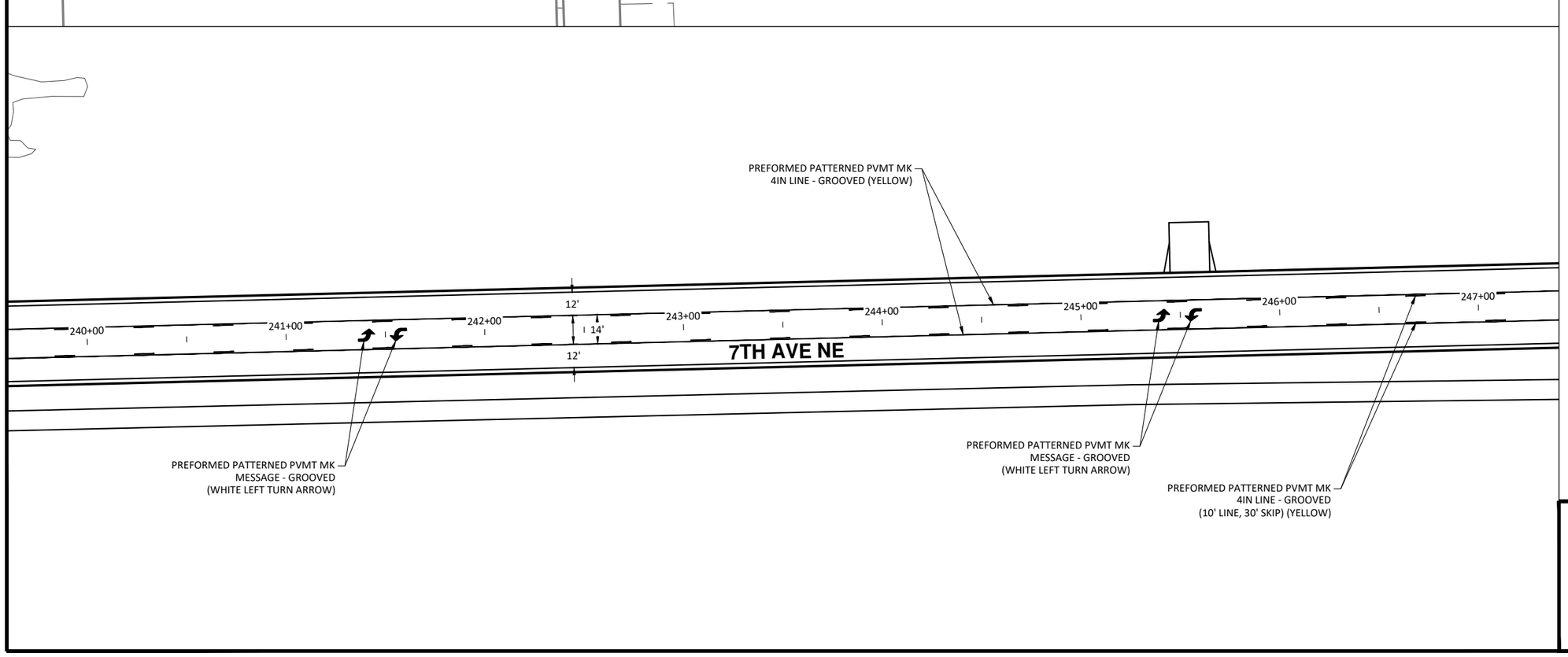
Pavement Markings - 7th Ave NE

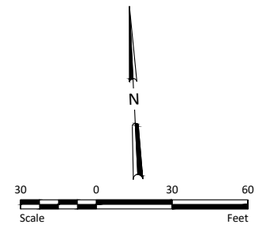
9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	9







CITY OF WEST FARGO

HOUSTON engineering, inc.

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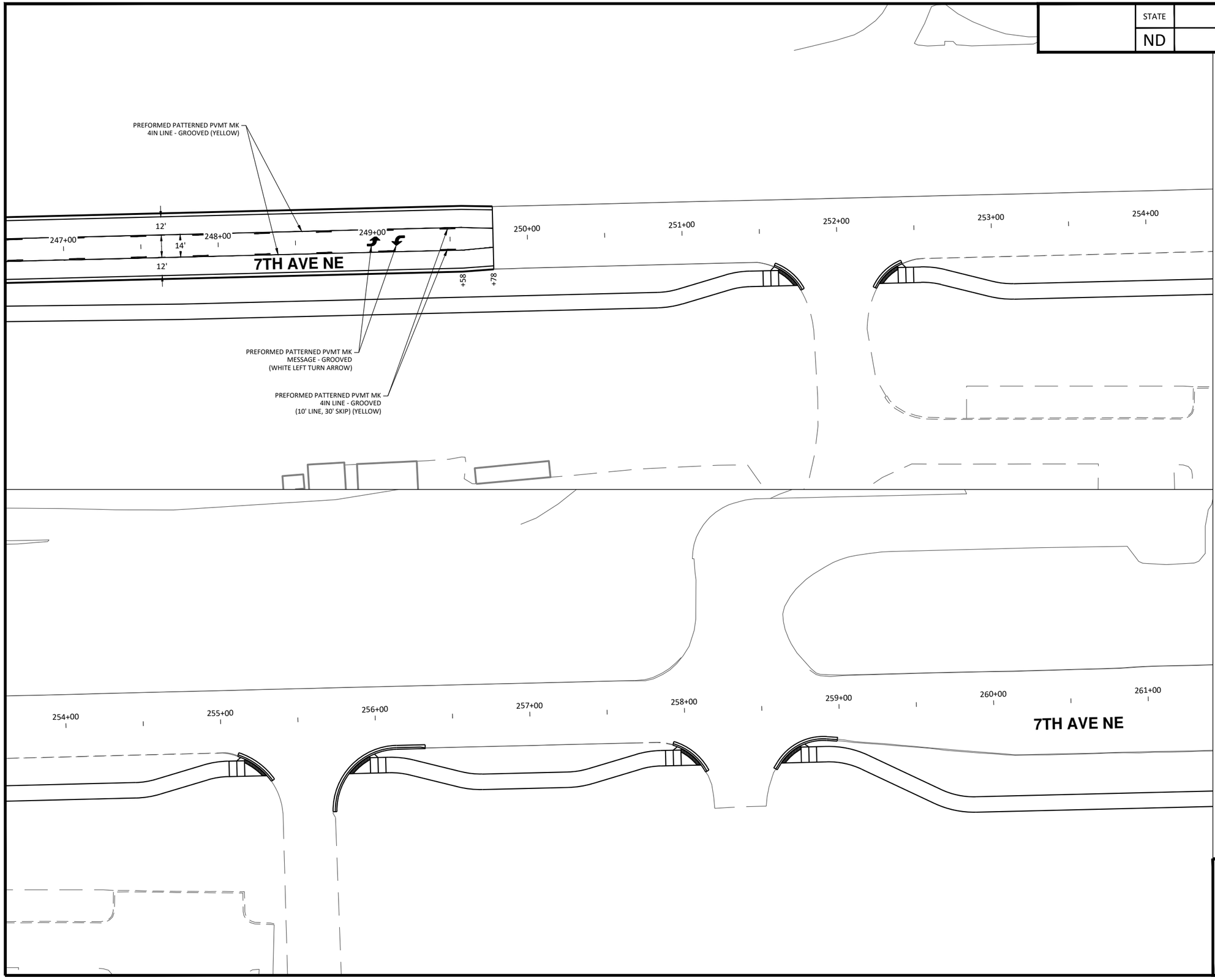
8/1/2025

Pavement Markings - 7th Ave NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SU-8-992(045)	120	10



N

30 0 30 60

Scale Feet

CITY OF WEST FARGO

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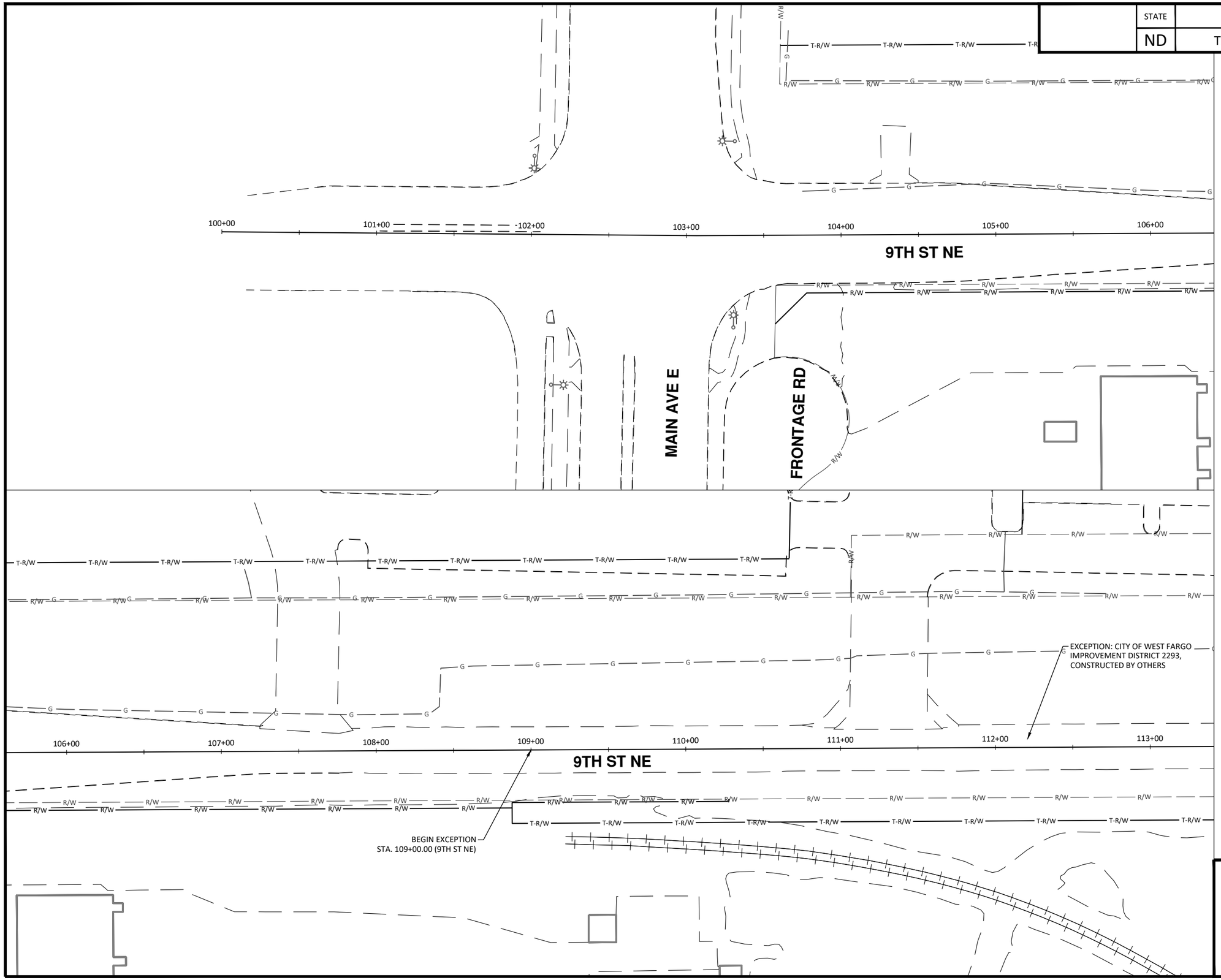
8/1/2025

Pavement Markings - 7th Ave NE

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	1



N

30 0 30 60

Scale Feet

LEGEND

EXISTING RIGHT OF WAY	R/W
PROPOSED RIGHT OF WAY	R/W
TEMPORARY RIGHT OF WAY	T-R/W
STREET LIGHT TO REMAIN IN PLACE	
REMOVE STREET LIGHT	
FEED POINT TO REMAIN IN PLACE	
CONDUIT/CONDUCTOR TO REMAIN IN PLACE	L
REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4)	L

GENERAL NOTES:

1. EXISTING LIGHTING SYSTEM(S) BASED ON SURVEY AND AS-BUILT PLANS. VERIFY INFORMATION SHOWN PRIOR TO PERFORMING WORK.
2. EXISTING LIGHTING SYSTEM(S) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE PLANS.
3. REMOVE EXISTING CONDUIT AND CONDUCTOR WITHIN THE PROPOSED RECONSTRUCTION LIMITS.
4. ABANDON EXISTING CONDUIT AND DIRECT BURIED CONDUCTOR OUTSIDE THE PROPOSED RECONSTRUCTION LIMITS. IF CONDUCTOR IS IN CONDUIT, REMOVE CONDUCTOR.

CITY OF WEST FARGO

HOUSTON engineering, inc.

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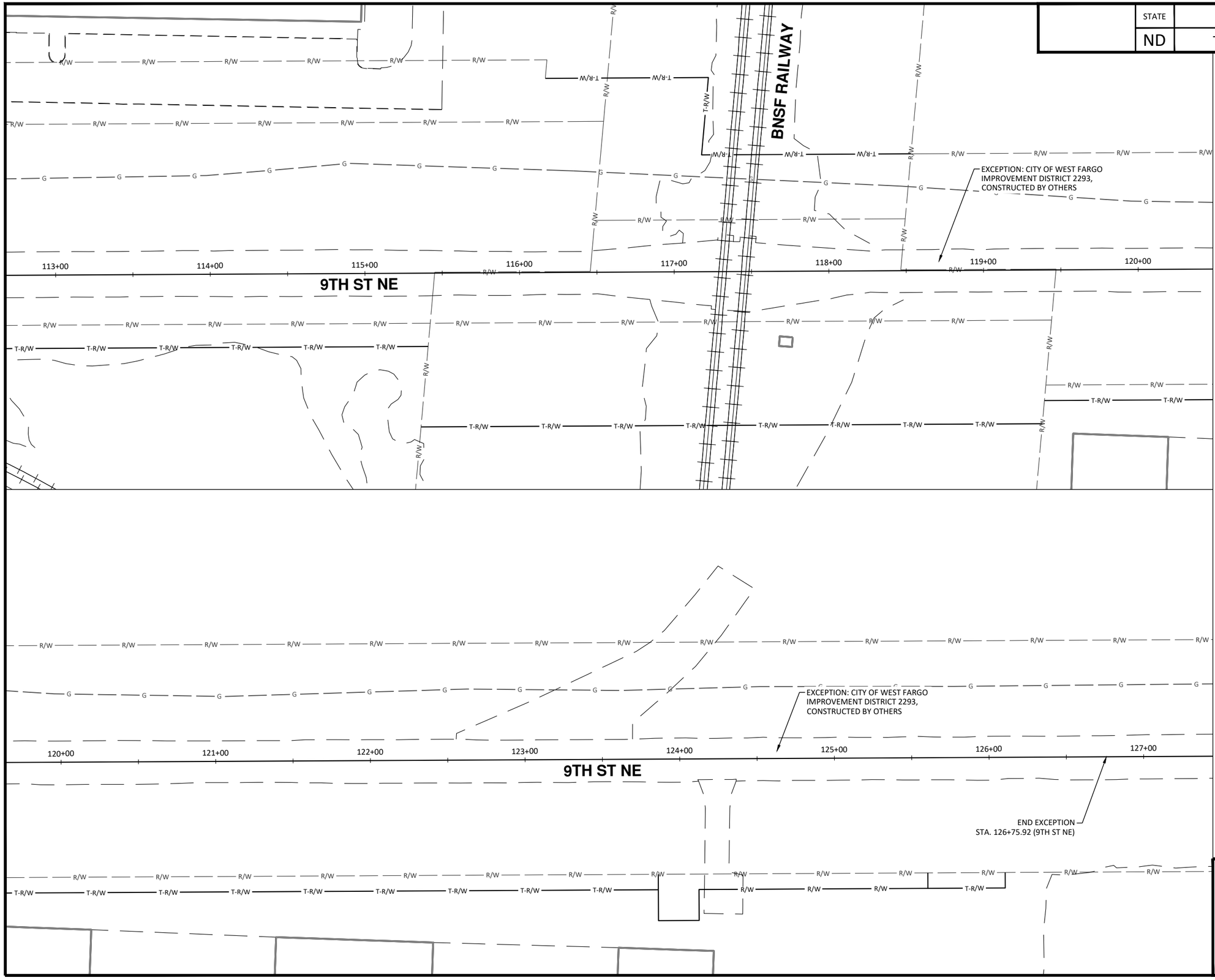
8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	2



N

30 0 30 60

Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- REMOVE STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4) — L —

GENERAL NOTES:

1. EXISTING LIGHTING SYSTEM(S) BASED ON SURVEY AND AS-BUILT PLANS. VERIFY INFORMATION SHOWN PRIOR TO PERFORMING WORK.
2. EXISTING LIGHTING SYSTEM(S) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE PLANS.
3. REMOVE EXISTING CONDUIT AND CONDUCTOR WITHIN THE PROPOSED RECONSTRUCTION LIMITS.
4. ABANDON EXISTING CONDUIT AND DIRECT BURIED CONDUCTOR OUTSIDE THE PROPOSED RECONSTRUCTION LIMITS. IF CONDUCTOR IS IN CONDUIT, REMOVE CONDUCTOR.

CITY OF WEST FARGO

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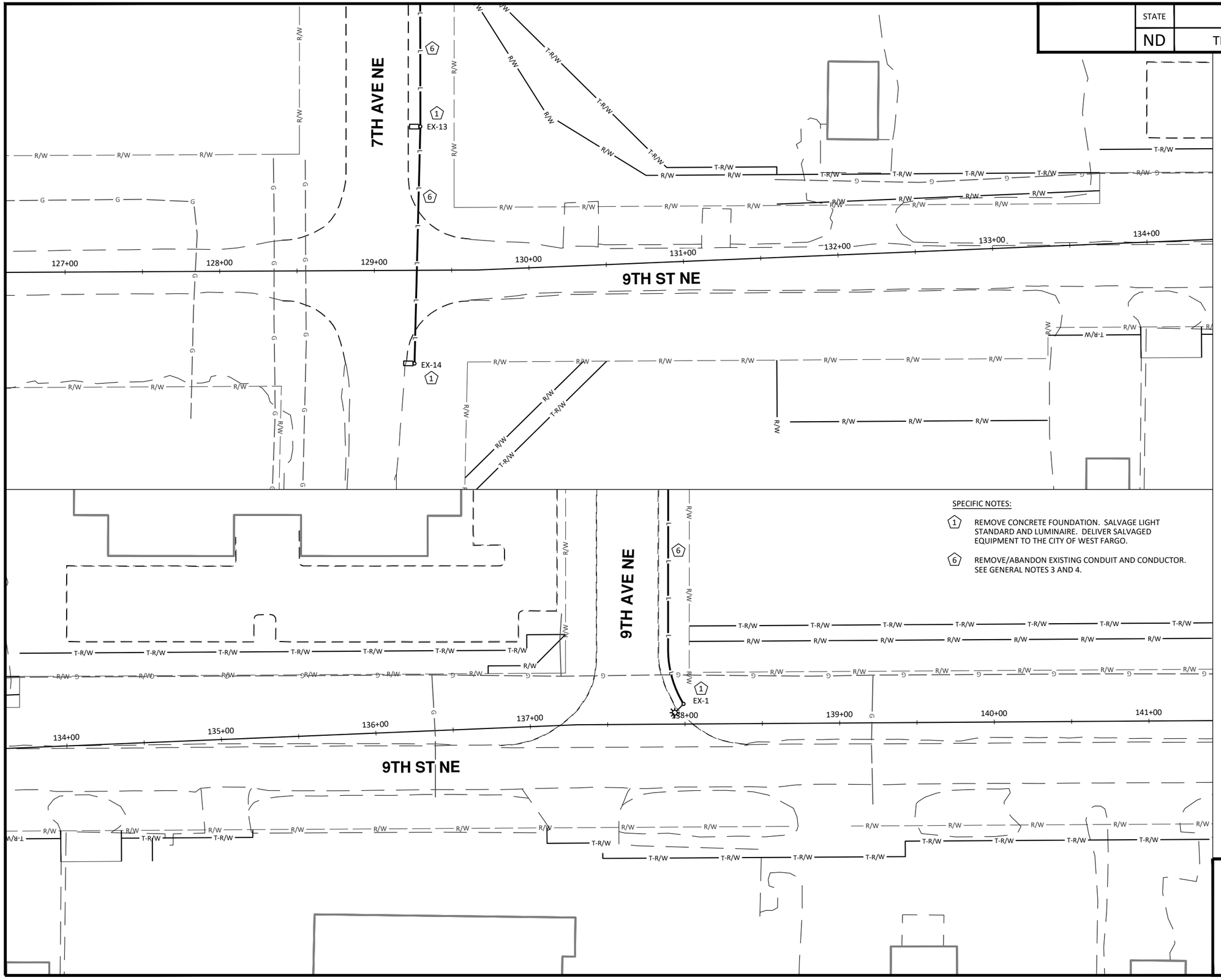
8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\BN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Existing.dwg-Lighting (2)-8/13/2025 2:39 PM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	3



SPECIFIC NOTES:

1. REMOVE CONCRETE FOUNDATION. SALVAGE LIGHT STANDARD AND LUMINAIRE. DELIVER SALVAGED EQUIPMENT TO THE CITY OF WEST FARGO.
6. REMOVE/ABANDON EXISTING CONDUIT AND CONDUCTOR. SEE GENERAL NOTES 3 AND 4.

30 0 30 60
Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- STREET LIGHT TO REMAIN IN PLACE
- REMOVE STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L
- REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4) — L

GENERAL NOTES:

1. EXISTING LIGHTING SYSTEM(S) BASED ON SURVEY AND AS-BUILT PLANS. VERIFY INFORMATION SHOWN PRIOR TO PERFORMING WORK.
2. EXISTING LIGHTING SYSTEM(S) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE PLANS.
3. REMOVE EXISTING CONDUIT AND CONDUCTOR WITHIN THE PROPOSED RECONSTRUCTION LIMITS.
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8/13/2025

Existing Lighting

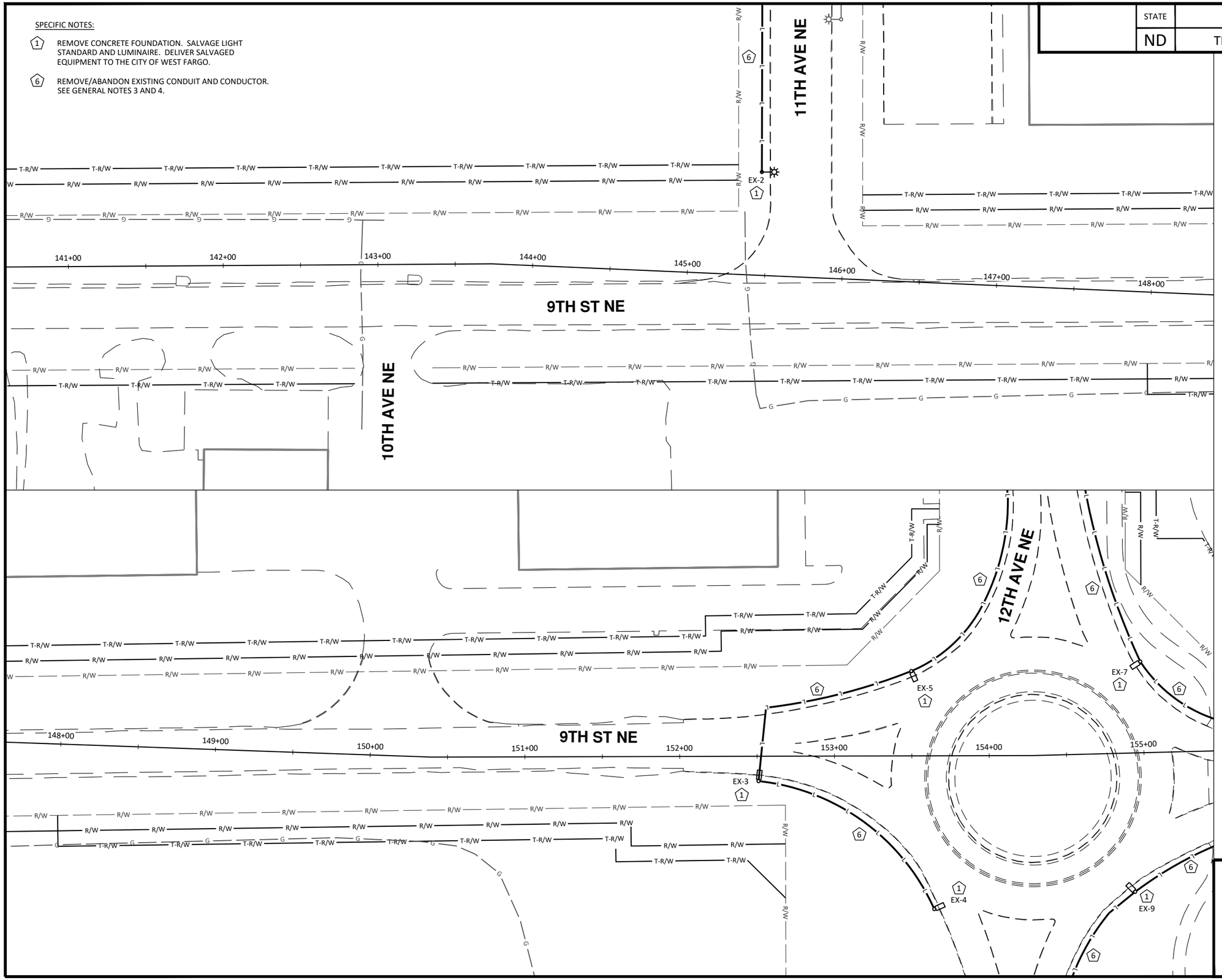
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	140	4

SPECIFIC NOTES:

1. REMOVE CONCRETE FOUNDATION. SALVAGE LIGHT STANDARD AND LUMINAIRE. DELIVER SALVAGED EQUIPMENT TO THE CITY OF WEST FARGO.
6. REMOVE/ABANDON EXISTING CONDUIT AND CONDUCTOR. SEE GENERAL NOTES 3 AND 4.



N

30 0 30 60

Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- REMOVE STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4) — L —

GENERAL NOTES:

1. EXISTING LIGHTING SYSTEM(S) BASED ON SURVEY AND AS-BUILT PLANS. VERIFY INFORMATION SHOWN PRIOR TO PERFORMING WORK.
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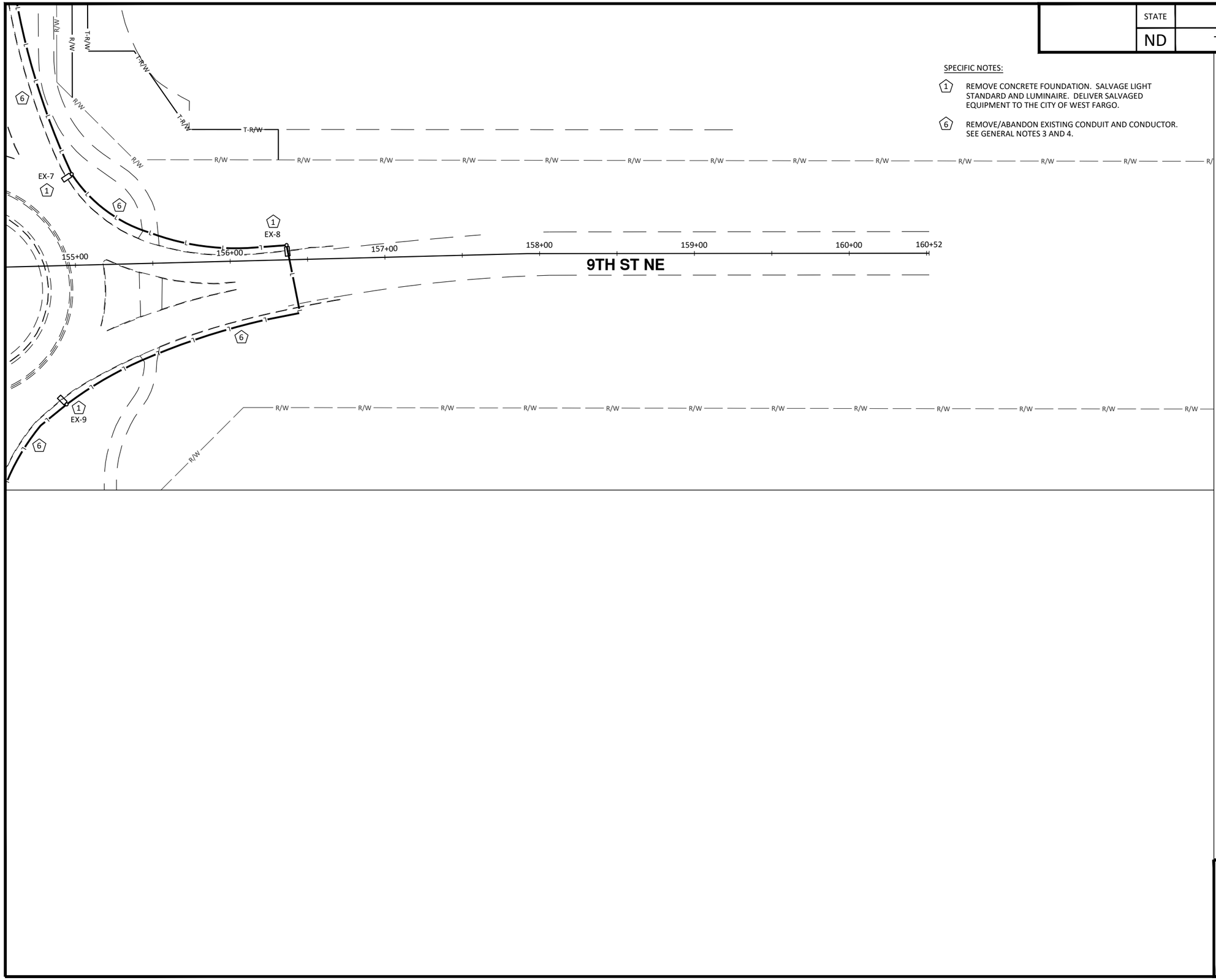
8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	5



SPECIFIC NOTES:

1. REMOVE CONCRETE FOUNDATION. SALVAGE LIGHT STANDARD AND LUMINAIRE. DELIVER SALVAGED EQUIPMENT TO THE CITY OF WEST FARGO.
6. REMOVE/ABANDON EXISTING CONDUIT AND CONDUCTOR. SEE GENERAL NOTES 3 AND 4.

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- REMOVE STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4) — L —

GENERAL NOTES:

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CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
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PE-10621
DATE
NORTH DAKOTA

8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\BN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Existing.dwg-Lighting (5)-8/13/2025 2:40 PM-(jerickson)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	140	6

STA 307+86 LT

STA 319+49 LT

12TH AVE NE

9TH ST NE

EX-1 EX-2 EX-3 EX-4 EX-5 EX-6 EX-7 EX-8 EX-9 EX-10 EX-11

307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00 317+00 318+00 319+00 320+00

SPECIFIC NOTES:

1. REMOVE CONCRETE FOUNDATION. SALVAGE LIGHT STANDARD AND LUMINAIRE. DELIVER SALVAGED EQUIPMENT TO THE CITY OF WEST FARGO.
4. STREET LIGHT TO REMAIN IN PLACE.
6. REMOVE/ABANDON EXISTING CONDUIT AND CONDUCTOR. SEE GENERAL NOTES 3 AND 4.
7. EXISTING CONDUIT/CONDUCTOR TO REMAIN IN PLACE.
8. MAINTAIN POWER TO THE EXISTING STREET LIGHT AT STA 307+86 LT. EXISTING FEED POINT IS LOCATED AT THE INTERSECTION OF 12TH AVE N AND CENTER ST.
9. MAINTAIN POWER TO THE EXISTING STREET LIGHT AT STA 319+49 LT. EXISTING FEED POINT IS LOCATED AT THE INTERSECTION OF 12TH AVE N AND 55TH ST N.

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- REMOVE STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4) — L —

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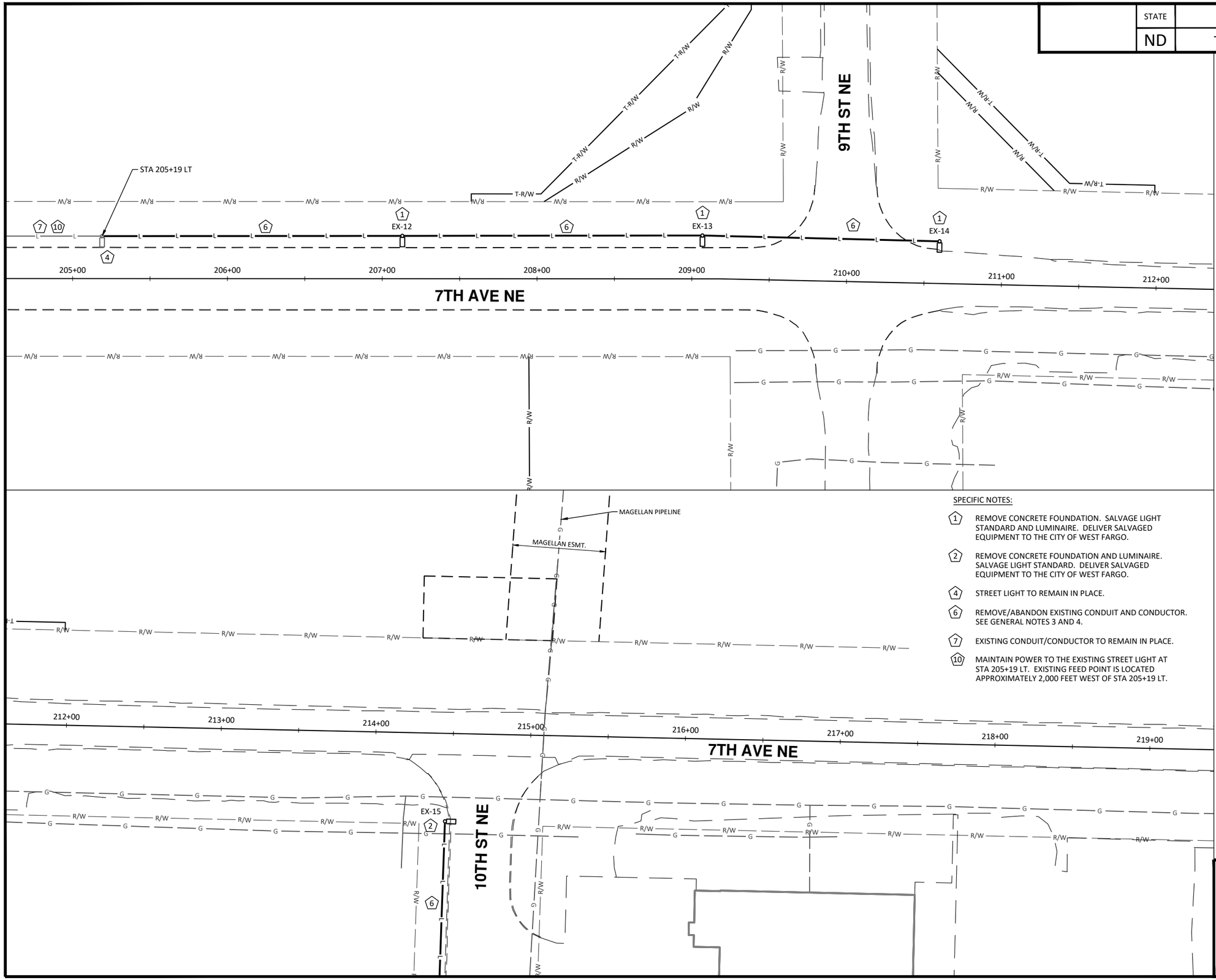
8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Existing.dwg-Lighting (6)-8/13/2025 2:40 PM-{jerickson}

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	7



SPECIFIC NOTES:

1. REMOVE CONCRETE FOUNDATION. SALVAGE LIGHT STANDARD AND LUMINAIRE. DELIVER SALVAGED EQUIPMENT TO THE CITY OF WEST FARGO.
2. REMOVE CONCRETE FOUNDATION AND LUMINAIRE. SALVAGE LIGHT STANDARD. DELIVER SALVAGED EQUIPMENT TO THE CITY OF WEST FARGO.
4. STREET LIGHT TO REMAIN IN PLACE.
6. REMOVE/ABANDON EXISTING CONDUIT AND CONDUCTOR. SEE GENERAL NOTES 3 AND 4.
7. EXISTING CONDUIT/CONDUCTOR TO REMAIN IN PLACE.
10. MAINTAIN POWER TO THE EXISTING STREET LIGHT AT STA 205+19 LT. EXISTING FEED POINT IS LOCATED APPROXIMATELY 2,000 FEET WEST OF STA 205+19 LT.

N

30 0 30 60

Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- REMOVE STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4) — L —

GENERAL NOTES:

1. EXISTING LIGHTING SYSTEM(S) BASED ON SURVEY AND AS-BUILT PLANS. VERIFY INFORMATION SHOWN PRIOR TO PERFORMING WORK.
2. EXISTING LIGHTING SYSTEM(S) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE PLANS.
3. REMOVE EXISTING CONDUIT AND CONDUCTOR WITHIN THE PROPOSED RECONSTRUCTION LIMITS.
4. ABANDON EXISTING CONDUIT AND DIRECT BURIED CONDUCTOR OUTSIDE THE PROPOSED RECONSTRUCTION LIMITS. IF CONDUCTOR IS IN CONDUIT, REMOVE CONDUCTOR.

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

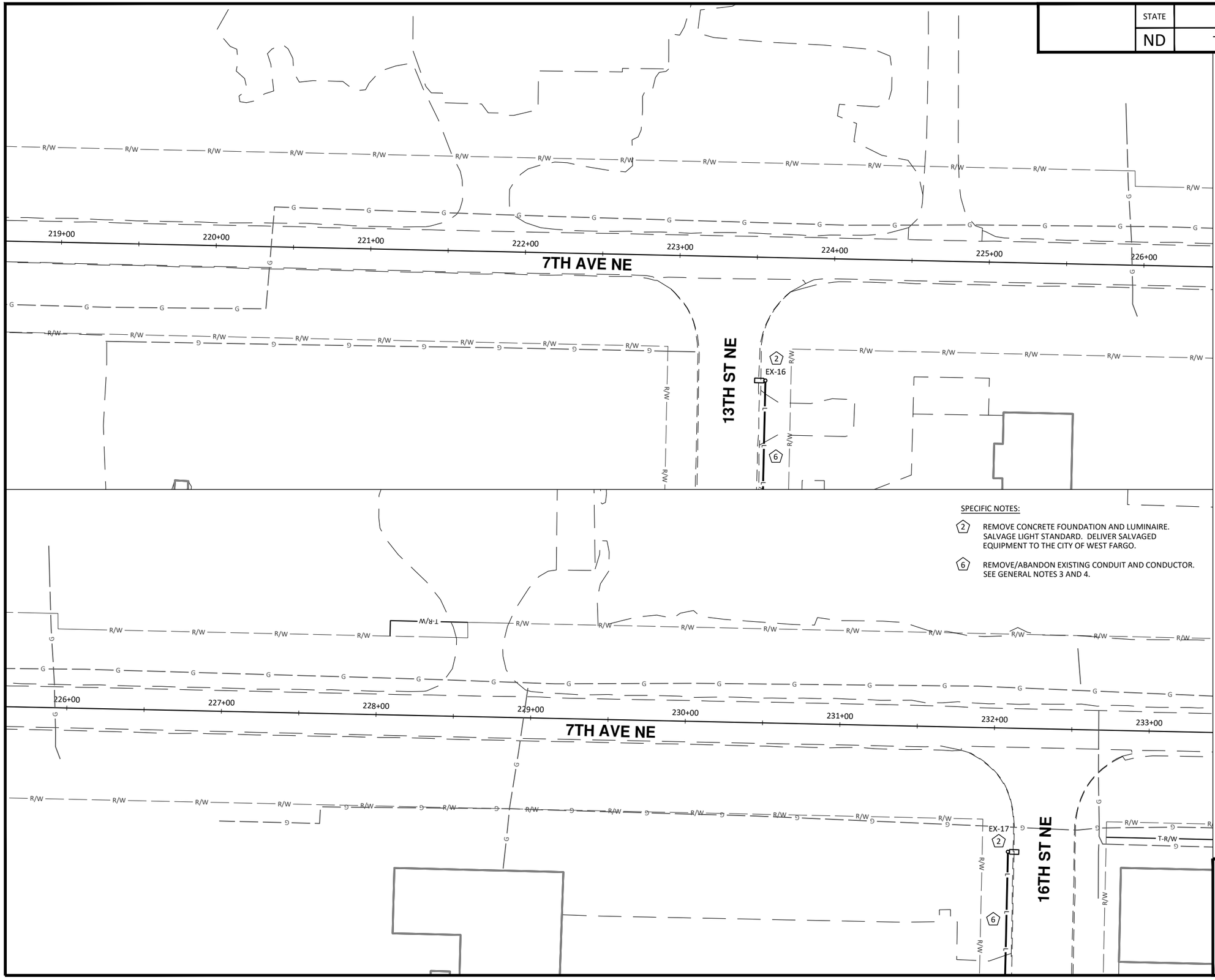
8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654A\8654_0004 9th St\CADD_CITY PROJECT\Plans\140 - Lighting_Existing.dwg-Lighting (7)-8/13/2025 2:40 PM-(jerickson)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	140	8



SPECIFIC NOTES:

(2) REMOVE CONCRETE FOUNDATION AND LUMINAIRE. SALVAGE LIGHT STANDARD. DELIVER SALVAGED EQUIPMENT TO THE CITY OF WEST FARGO.

(6) REMOVE/ABANDON EXISTING CONDUIT AND CONDUCTOR. SEE GENERAL NOTES 3 AND 4.

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- REMOVE STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4) — L —

GENERAL NOTES:

1. EXISTING LIGHTING SYSTEM(S) BASED ON SURVEY AND AS-BUILT PLANS. VERIFY INFORMATION SHOWN PRIOR TO PERFORMING WORK.
2. EXISTING LIGHTING SYSTEM(S) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE PLANS.
3. REMOVE EXISTING CONDUIT AND CONDUCTOR WITHIN THE PROPOSED RECONSTRUCTION LIMITS.
4. ABANDON EXISTING CONDUIT AND DIRECT BURIED CONDUCTOR OUTSIDE THE PROPOSED RECONSTRUCTION LIMITS. IF CONDUCTOR IS IN CONDUIT, REMOVE CONDUCTOR.

CITY OF WEST FARGO

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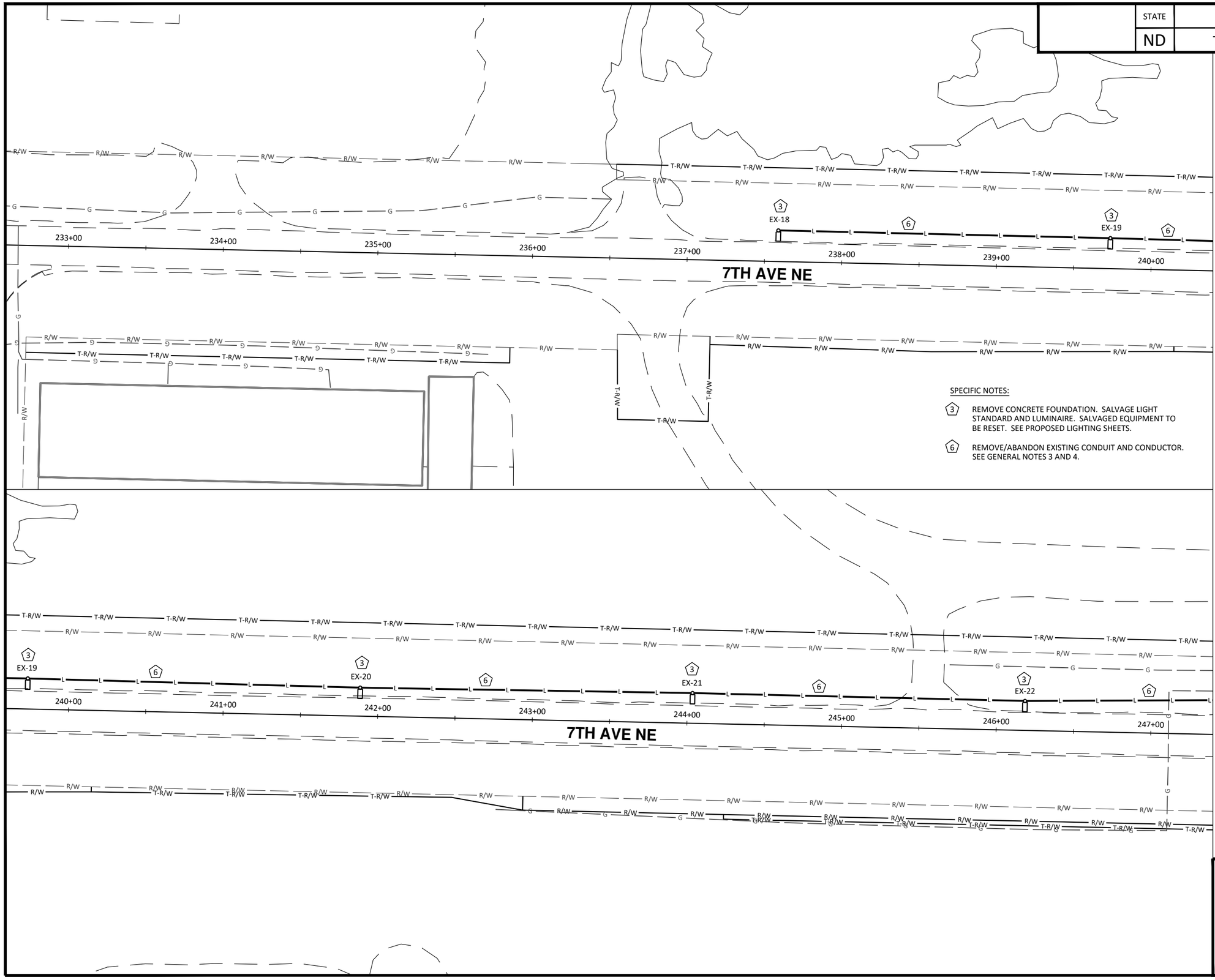
8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	140	9



SPECIFIC NOTES:

3 REMOVE CONCRETE FOUNDATION. SALVAGE LIGHT STANDARD AND LUMINAIRE. SALVAGED EQUIPMENT TO BE RESET. SEE PROPOSED LIGHTING SHEETS.

6 REMOVE/ABANDON EXISTING CONDUIT AND CONDUCTOR. SEE GENERAL NOTES 3 AND 4.

N

30 0 30 60
Scale Feet

LEGEND

EXISTING RIGHT OF WAY	R/W
PROPOSED RIGHT OF WAY	R/W
TEMPORARY RIGHT OF WAY	T-R/W
STREET LIGHT TO REMAIN IN PLACE	
REMOVE STREET LIGHT	
FEED POINT TO REMAIN IN PLACE	
CONDUIT/CONDUCTOR TO REMAIN IN PLACE	L
REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4)	L

GENERAL NOTES:

1. EXISTING LIGHTING SYSTEM(S) BASED ON SURVEY AND AS-BUILT PLANS. VERIFY INFORMATION SHOWN PRIOR TO PERFORMING WORK.
2. EXISTING LIGHTING SYSTEM(S) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE PLANS.
3. REMOVE EXISTING CONDUIT AND CONDUCTOR WITHIN THE PROPOSED RECONSTRUCTION LIMITS.
4. ABANDON EXISTING CONDUIT AND DIRECT BURIED CONDUCTOR OUTSIDE THE PROPOSED RECONSTRUCTION LIMITS. IF CONDUCTOR IS IN CONDUIT, REMOVE CONDUCTOR.

CITY OF WEST FARGO

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DATE
NORTH DAKOTA

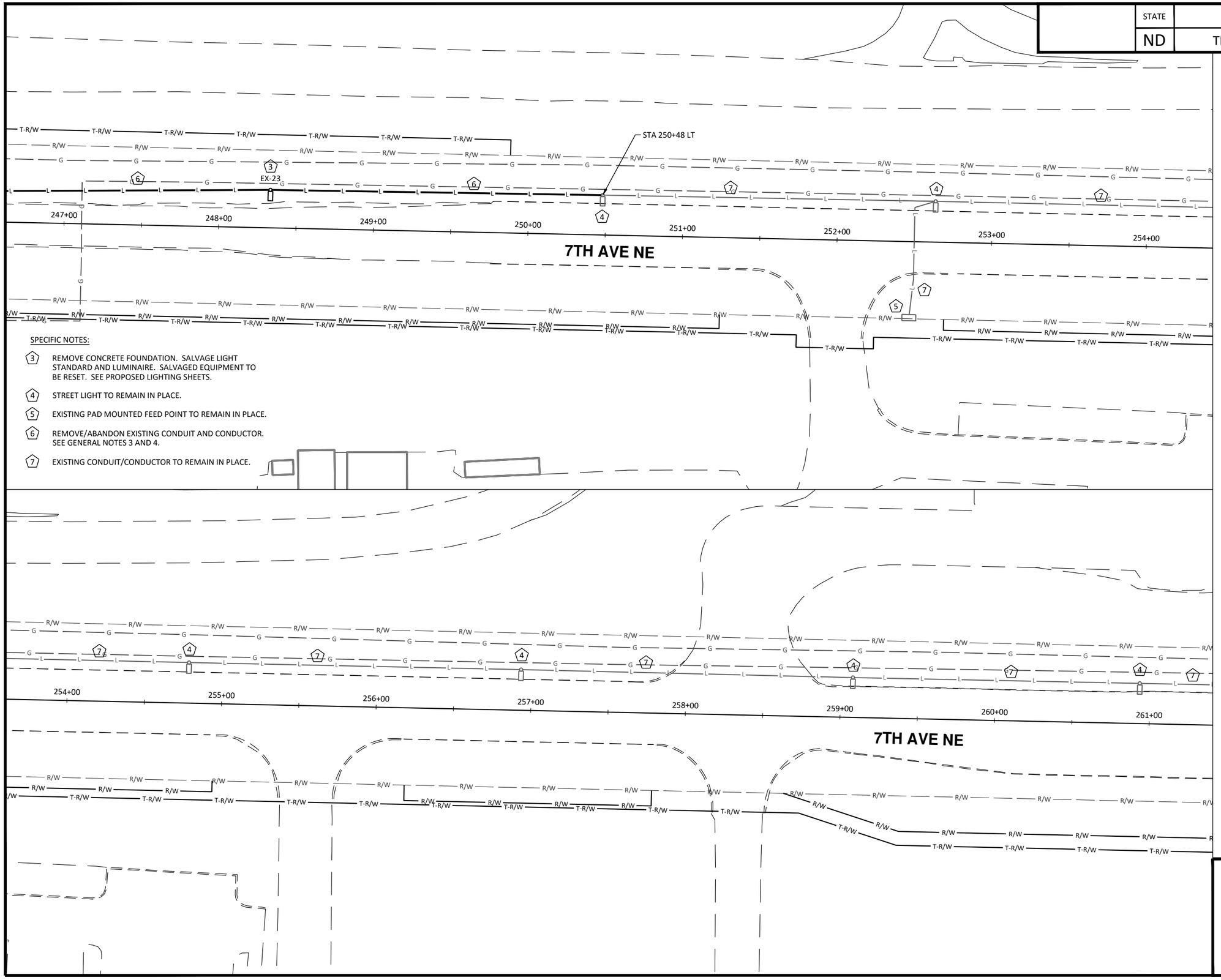
8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Existing.dwg-Lighting (9)-8/13/2025 2:40 PM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	10



SPECIFIC NOTES:

3. REMOVE CONCRETE FOUNDATION. SALVAGE LIGHT STANDARD AND LUMINAIRE. SALVAGED EQUIPMENT TO BE RESET. SEE PROPOSED LIGHTING SHEETS.
4. STREET LIGHT TO REMAIN IN PLACE.
5. EXISTING PAD MOUNTED FEED POINT TO REMAIN IN PLACE.
6. REMOVE/ABANDON EXISTING CONDUIT AND CONDUCTOR. SEE GENERAL NOTES 3 AND 4.
7. EXISTING CONDUIT/CONDUCTOR TO REMAIN IN PLACE.

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- REMOVE STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- REMOVE/ABANDON CONDUIT/CONDUCTOR (SEE GENERAL NOTES 3 AND 4) — L —

GENERAL NOTES:

1. EXISTING LIGHTING SYSTEM(S) BASED ON SURVEY AND AS-BUILT PLANS. VERIFY INFORMATION SHOWN PRIOR TO PERFORMING WORK.
2. EXISTING LIGHTING SYSTEM(S) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE PLANS.
3. REMOVE EXISTING CONDUIT AND CONDUCTOR WITHIN THE PROPOSED RECONSTRUCTION LIMITS.
4. ABANDON EXISTING CONDUIT AND DIRECT BURIED CONDUCTOR OUTSIDE THE PROPOSED RECONSTRUCTION LIMITS. IF CONDUCTOR IS IN CONDUIT, REMOVE CONDUCTOR.

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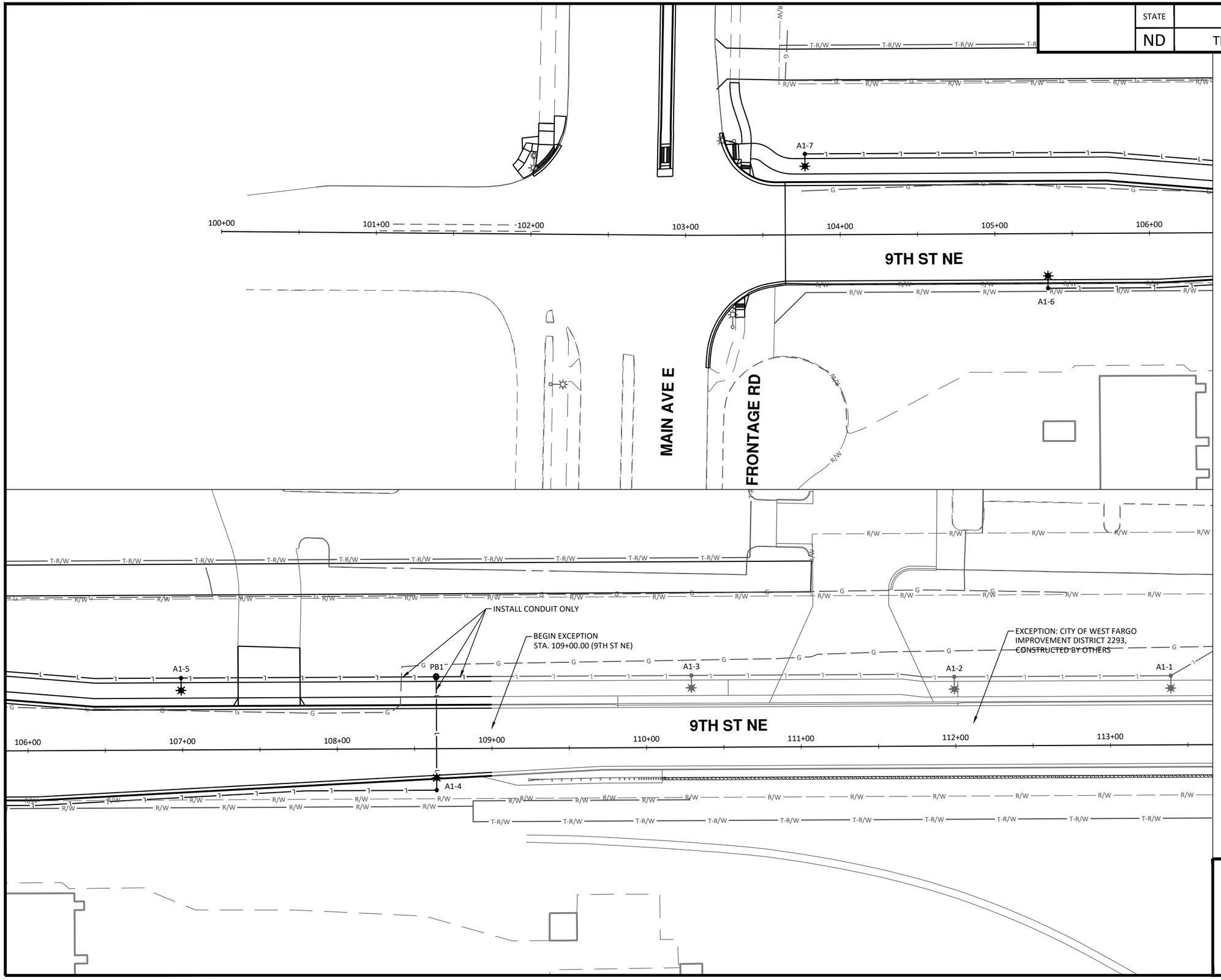
8/13/2025

Existing Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	11



30 0 30 60
Scale Feet

LEGEND

EXISTING RIGHT OF WAY	R/W
PROPOSED RIGHT OF WAY	R/W
TEMPORARY RIGHT OF WAY	T-R/W
STREET LIGHT TO REMAIN IN PLACE	
RESET EXISTING STREET LIGHT	
PROPOSED STREET LIGHT	
FEED POINT TO REMAIN IN PLACE	
PROPOSED FEED POINT	
PROPOSED PULL BOX	
CONDUIT/CONDUCTOR TO REMAIN IN PLACE	L
PROPOSED CONDUIT AND CONDUCTOR	L

NOTE:

LIGHTING EQUIPMENT WITHIN THE EXCEPTION AREA SHOWN FOR INFORMATIONAL PURPOSES ONLY. TO BE INSTALLED BY OTHER AND SUBJECT TO CHANGE.

CITY OF WEST FARGO

HOUSTON engineering, inc.

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NORTH DAKOTA

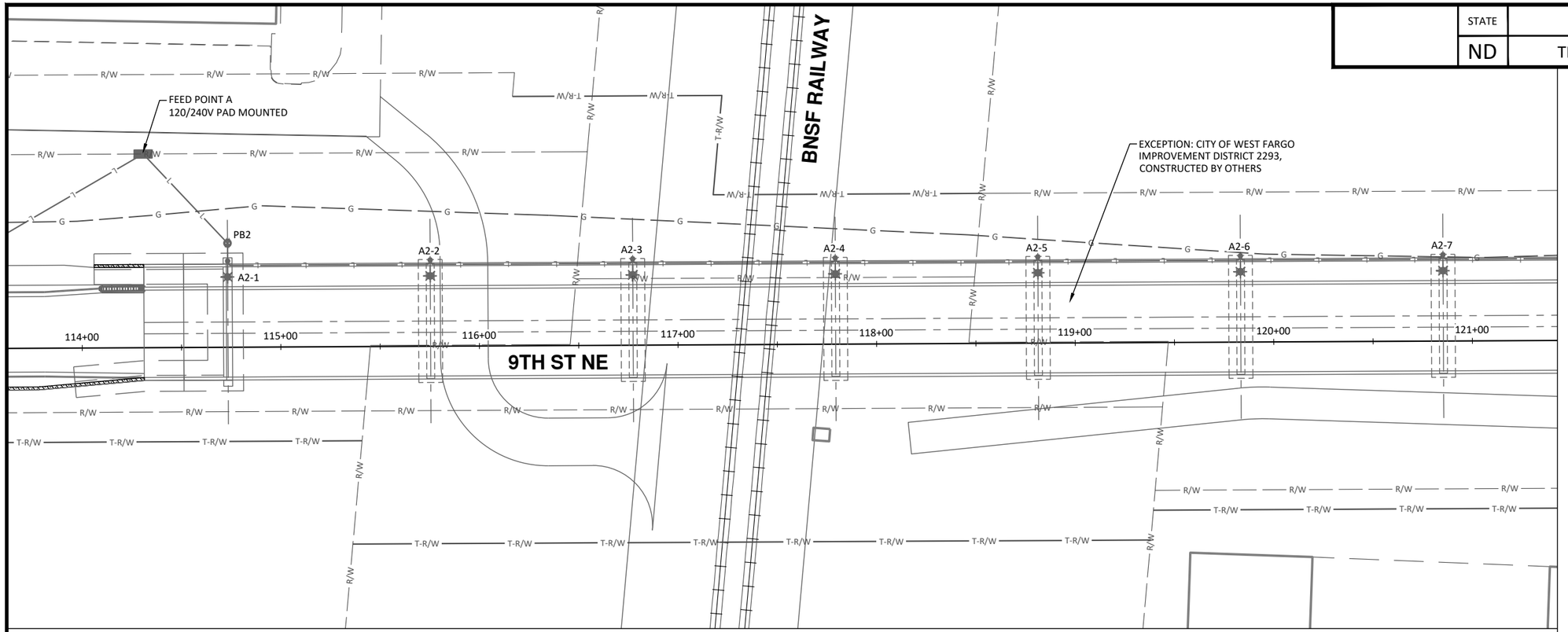
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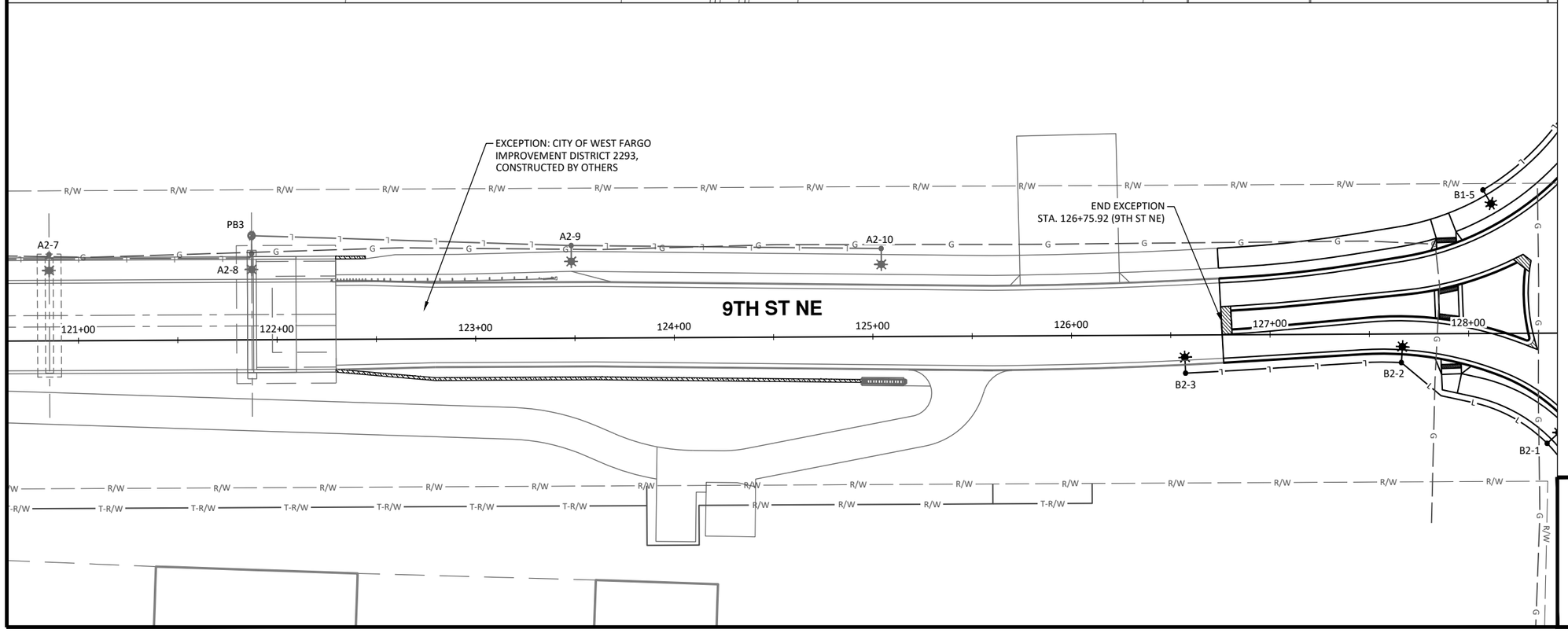
Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plan\140 - Lighting_Proposed.dwg-Lighting (1)-8/13/2025 2:40 PM-(jerickson)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	140	12





30 0 30 60
Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L
- PROPOSED CONDUIT AND CONDUCTOR — L

NOTE:

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CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	13

FEED POINT B SOURCE OF POWER (OH TRANSFORMER)

FEED POINT B 120/240V PAD MOUNTED

B1-1 B1-2 B1-4 B1-5 PB4

B2-1 B2-2 PB6

B3-1 B3-2

B4-1 B4-2 B4-3 PB5 PB7

B4-4 B4-5 B4-6 B4-7 B4-8 PB8 PB9

L1

INSTALL CONDUIT AND CONDUCTOR TO STREET LIGHT TO THE WEST

9TH ST NE

FRONTAGE RD

7TH AVE NE

9TH AVE NE

127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00

N

30 0 30 60

Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- PROPOSED CONDUIT AND CONDUCTOR — L —

CITY OF WEST FARGO

HOUSTON engineering, inc.

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Proposed.dwg-Lighting (3)-8/13/2025 2:40 PM-(jerickson)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	140	14

INSTALL CONDUIT AND CONDUCTOR TO STREET LIGHT TO THE WEST

11TH AVE NE

9TH ST NE

10TH AVE NE

12TH AVE NE

141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00

L2 B4-8 B4-9 B4-10 B4-11 C1-11 C1-10 PB10 C2-4 PB11 C2-1 C2-5 C1-9 C1-8 C1-7 C1-6 C1-2

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L
- PROPOSED CONDUIT AND CONDUCTOR — L

CITY OF WEST FARGO

HOUSTON engineering, inc.

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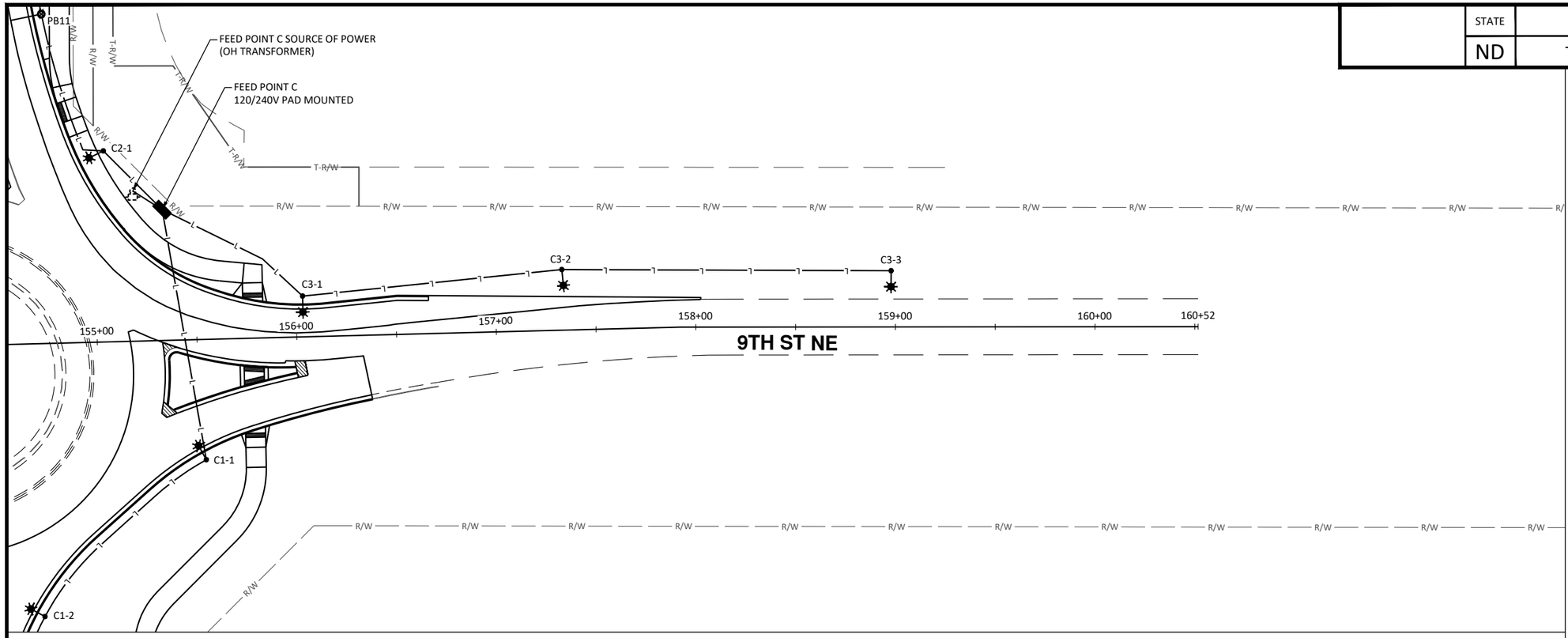
8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	15



N

30 0 30 60

Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L
- PROPOSED CONDUIT AND CONDUCTOR — L

CITY OF WEST FARGO

HOUSTON engineering, inc.

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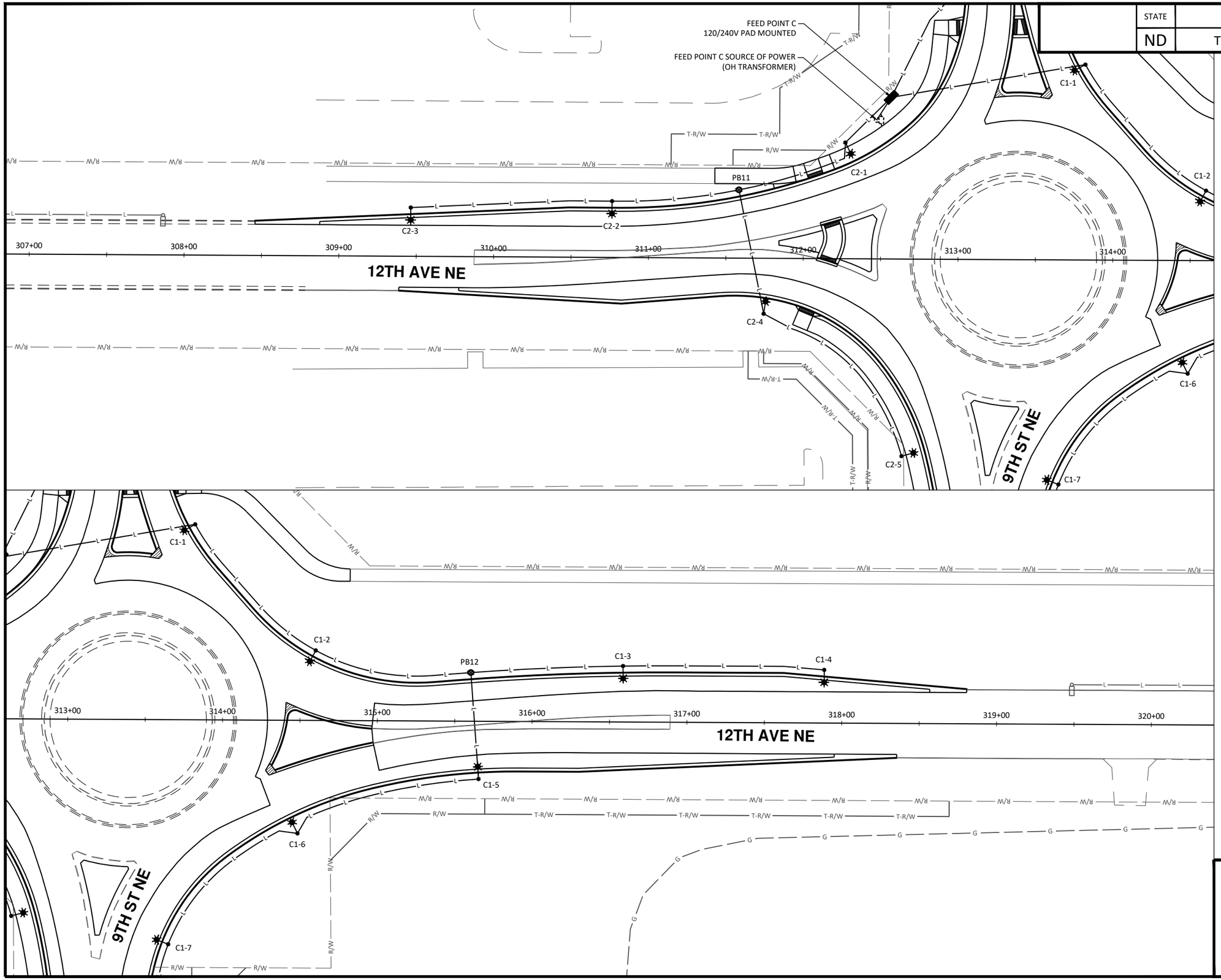
8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-SU-FXP-8-992(045)	140	16



LEGEND

- EXISTING RIGHT OF WAY — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L
- PROPOSED CONDUIT AND CONDUCTOR — L

CITY OF WEST FARGO

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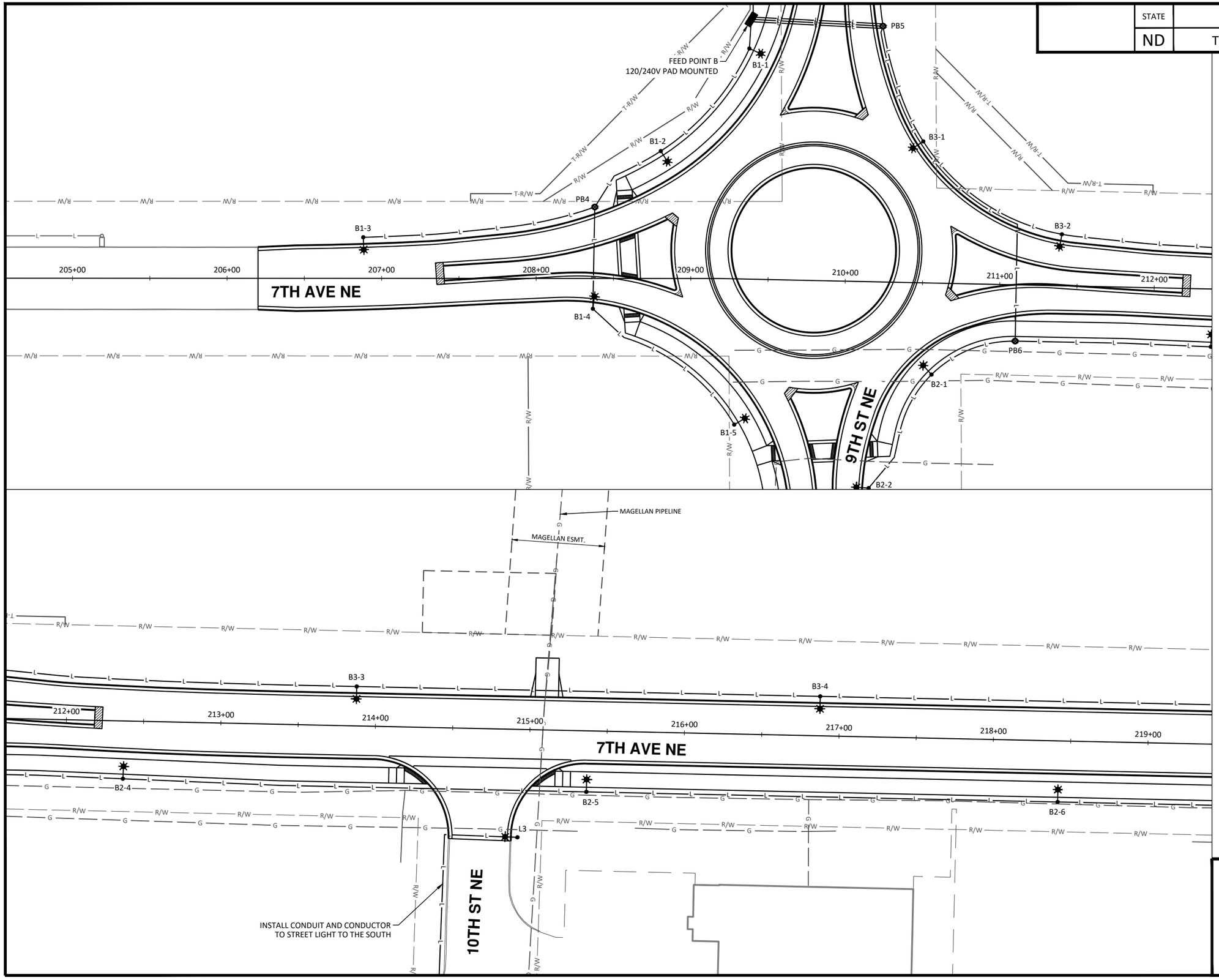
8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	17



N

30 0 30 60

Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W
- PROPOSED RIGHT OF WAY — R/W
- TEMPORARY RIGHT OF WAY — T-R/W
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L
- PROPOSED CONDUIT AND CONDUCTOR — L

CITY OF WEST FARGO

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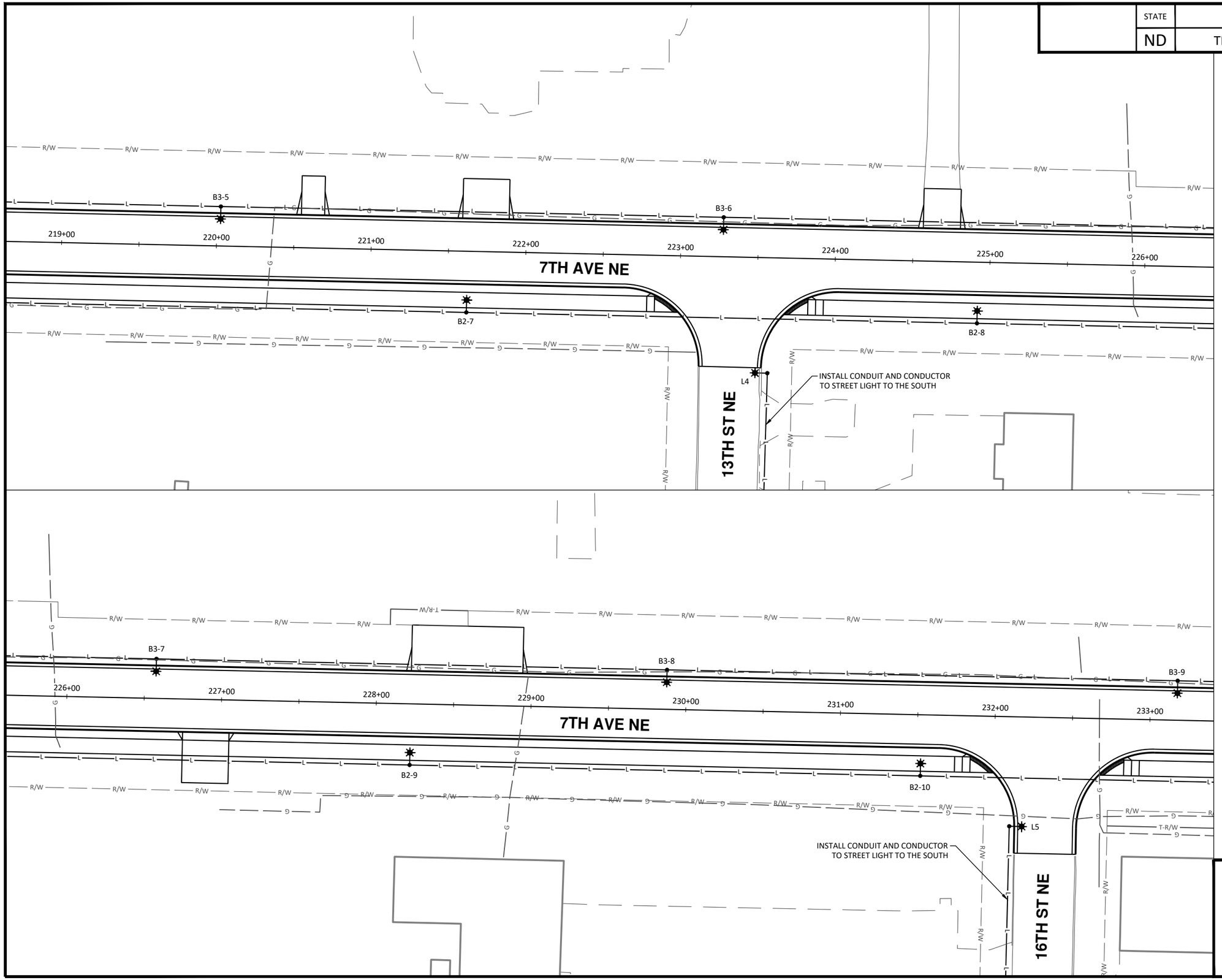
8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	18



N

30 0 30 60

Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- PROPOSED CONDUIT AND CONDUCTOR — L —

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Proposed.dwg-Lighting (8)-8/13/2025 2:41 PM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	19

B3-9
B3-10
B2-11
EX-18
EX-19
EX-20
EX-21
EX-22
233+00
234+00
235+00
236+00
237+00
238+00
239+00
240+00
241+00
242+00
243+00
244+00
245+00
246+00
247+00
7TH AVE NE
7TH AVE NE

N

30 0 30 60
Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- PROPOSED CONDUIT AND CONDUCTOR — L —

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

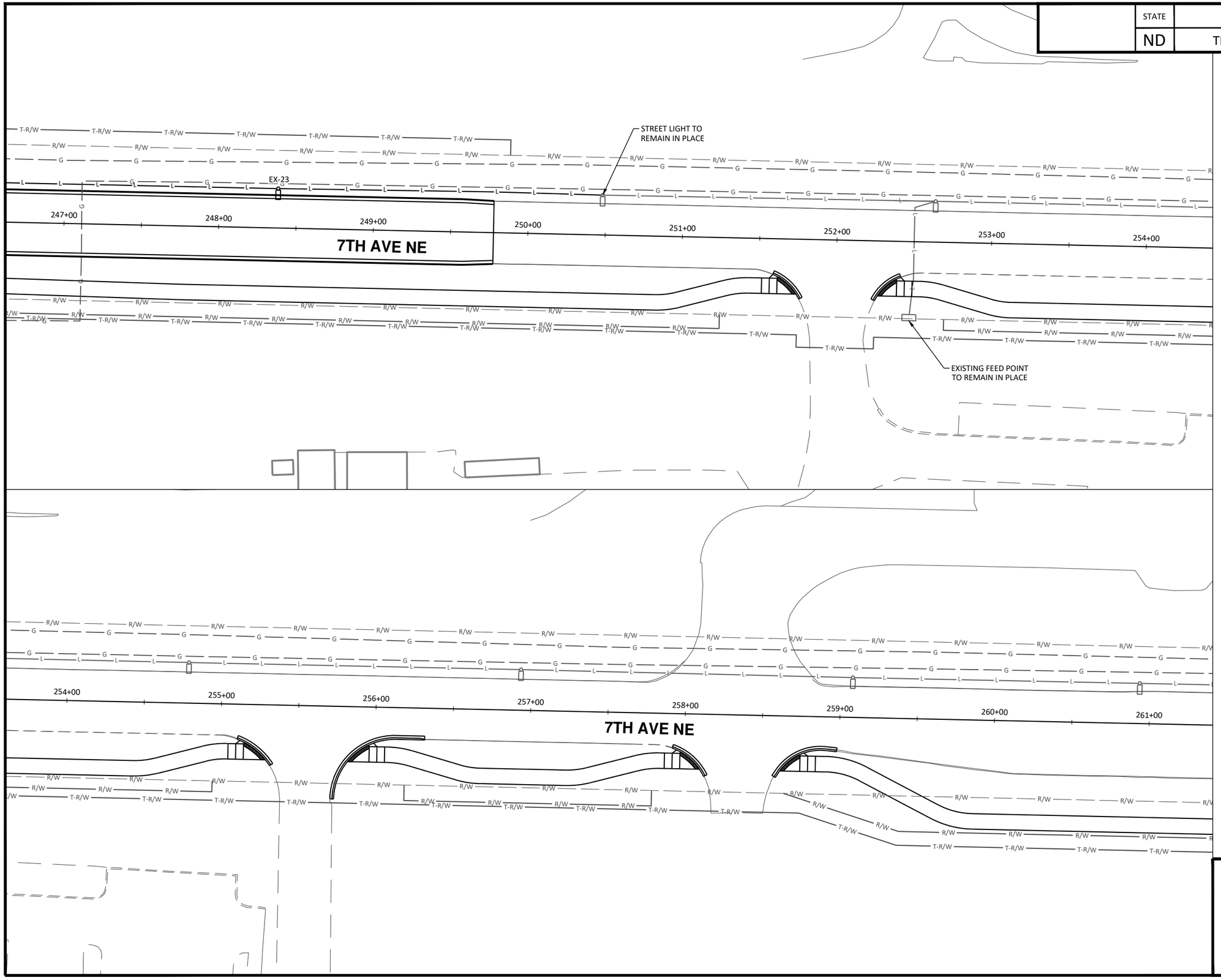
8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Proposed.dwg-Lighting (9)-8/13/2025 2:41 PM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	20



N

30 0 30 60

Scale Feet

LEGEND

- EXISTING RIGHT OF WAY — R/W —
- PROPOSED RIGHT OF WAY — R/W —
- TEMPORARY RIGHT OF WAY — T-R/W —
- STREET LIGHT TO REMAIN IN PLACE
- RESET EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- FEED POINT TO REMAIN IN PLACE
- PROPOSED FEED POINT
- PROPOSED PULL BOX
- CONDUIT/CONDUCTOR TO REMAIN IN PLACE — L —
- PROPOSED CONDUIT AND CONDUCTOR — L —

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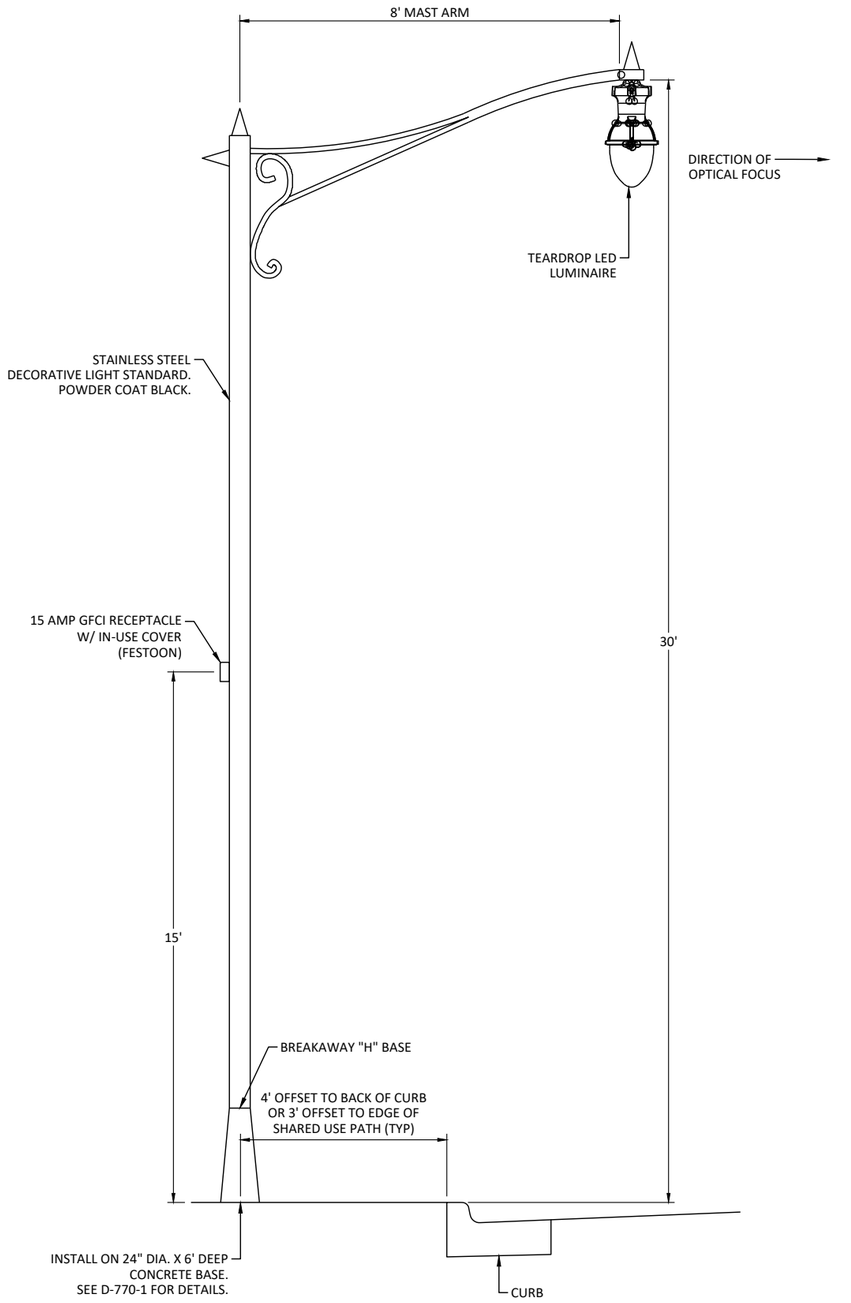
8/13/2025

Proposed Lighting

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

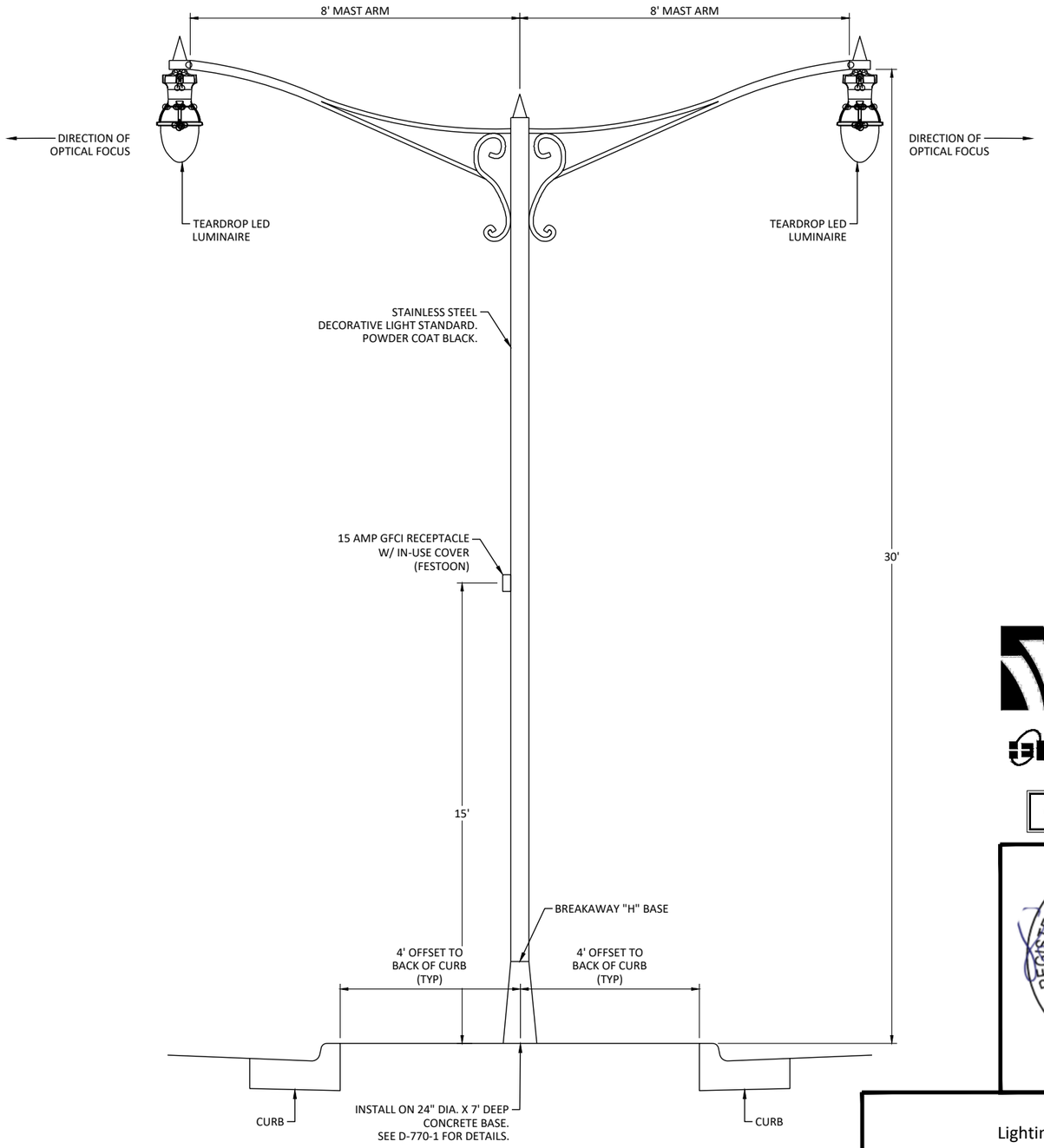
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	21



30' DECORATIVE LIGHT DETAIL - SINGLE MAST ARM

NOT TO SCALE



30' DECORATIVE LIGHT DETAIL - TWIN MAST ARM

NOT TO SCALE

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NORTH DAKOTA

8/13/2025

Lighting Details

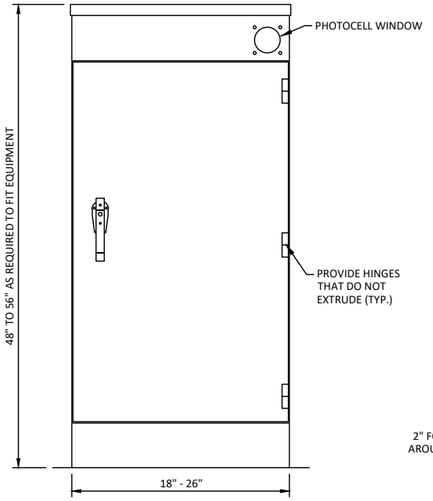
9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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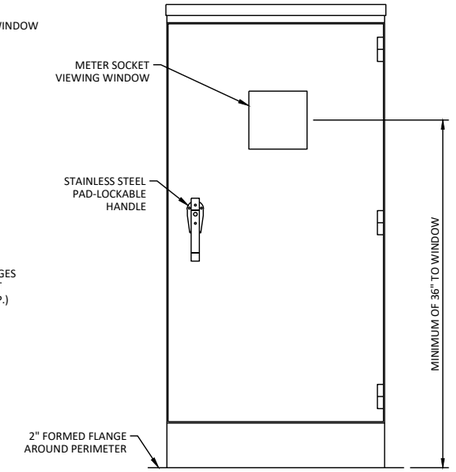
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	22

NOTES FOR FEED POINT CABINET DETAIL:

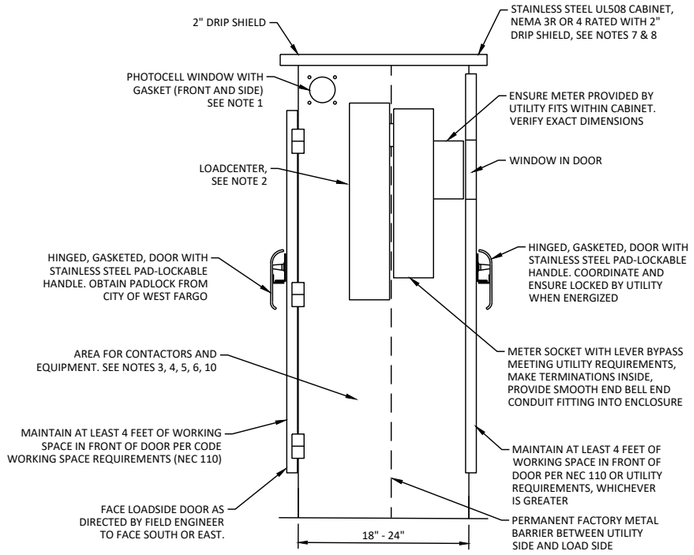
1. PHOTOCELL TO BE INTERMATIC ELC SERIES OR EQUAL, 120 VOLT, 1000W, -40° RATED, UL TYPE, 1.5 FOOT-CANDLES ON, 2.25 FOOT-CANDLES OFF, 5 SECOND DELAY. FAIL MODE ON. PROVIDE WITH LOCKING TYPE RECEPTACLE. FACE PHOTOCELL NORTH (EAST IS ALSO PERMITTED WHERE ALLOWED BY FIELD ENGINEER).
2. SEE PANEL SCHEDULES FOR SITE SPECIFIC REQUIREMENTS.
3. CONTACTORS TO BE NON-MERCURY TYPE. PROVIDE ABB ESB63 SERIES, WEG CWM32 SERIES, OR EQUAL.
4. PROVIDE A 20 AMP, "WR" TYPE, GFCI RECEPTACLE INTERNAL TO THE FEED POINT CABINET.
5. PROVIDE A SURGE PROTECTOR EQUAL TO ADVANCED PROTECTION TECHNOLOGIES SPDEE, UL 1449 LISTED, 50kA PER PHASE SURGE CURRENT RATING, 1000V L-L AND L-G, 200kA SCCR.
6. PROVIDE PROTECTION FROM ACCIDENTAL CONTACT (WHEN DOOR IS OPEN) TO LIVE PARTS USING A DEAD FRONT OF LEXAN CLEAR COVERS. RECEPTACLE, CIRCUIT BREAKERS, AND TEST SWITCH TO BE ACCESSIBLE WHEN DEADFRONT IS CLOSED.
7. GROUND AND BOND CABINET AS REQUIRED BY CODE (NEC 250). PROVIDE USE (SERVICE ENTRANCE RATED) CABINET AND/OR LOADCENTER.
8. PROVIDE PRE-FABRICATED CABINET, FACTORY ASSEMBLED BY STATES MANUFACTURING, POVOLNY, MILBANK, OR EQUAL.
9. PROVIDE ARC FLASH LABELING PER NEC AND NFPA 70E.
10. PROVIDE EXTRA SPACE, RAIL MOUNTS, AND HEATER (IF REQUIRED) FOR DMX COLOR CHANGING CONTROL EQUIPMENT AND EXTRA CIRCUITS AS REQUIRED.



FRONT VIEW LOAD SIDE

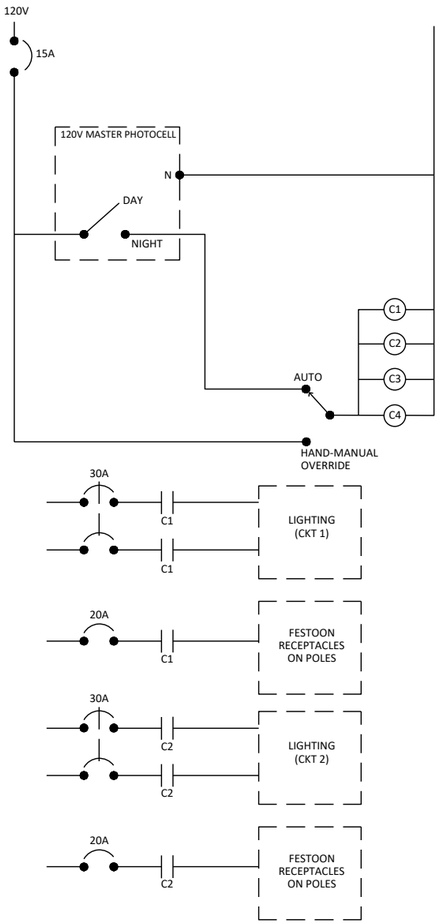


BACK VIEW UTILITY SIDE



SIDE VIEW

A FEED POINT CABINET DETAIL



B LIGHTING CONTROL WIRING DIAGRAM

LIGHTING CONTROL REQUIREMENTS

SEQUENCE OF OPERATIONS:

1. MASTER PHOTOCELL SHALL CLOSE AT DUSK AND OPEN AT DAWN. LIGHTS SHALL TURN ON AT NIGHT AND TURN OFF IN THE MORNING.
2. THE TEST SWITCH SHALL PROVIDE A MEANS FOR OVERRIDING THE PHOTOCELL CONTROL.

DIAGRAM NOTES:

1. PROVIDE TYPED ETCHED LABELING FOR CONTACTORS, TEST SWITCH, AND CIRCUIT BREAKERS.
2. PROVIDE EQUIPMENT GROUNDING (NOT SHOWN) PER NEC.
3. PROVIDE TERMINAL BLOCKS FOR CONTROL WIRING CONNECTIONS.
4. NEATLY TRAIN AND LACE ALL WIRING. PROVIDE COLOR CODED WIRE INSULATION MEETING NEC.
5. PROVIDE LAMINATED WIRING DIAGRAM IN FEED POINT INTERIOR. CLARIFY THE LOADS FOR EACH CONTACTOR.

LEGEND

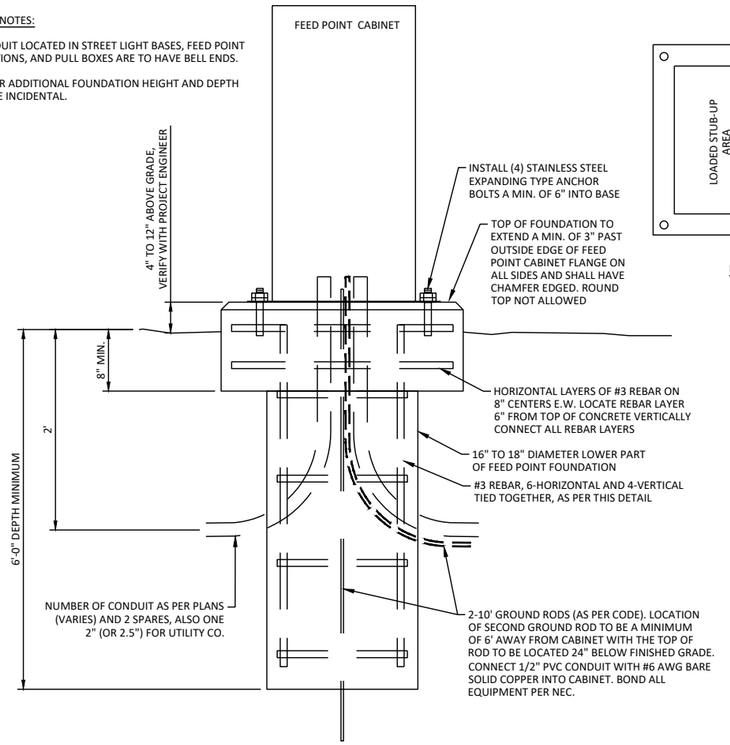
CIRCUIT BREAKER AS SHOWN ON RESPECTIVE PANEL SCHEDULE

TEST SWITCH - 15 AMP, 600V RATED, 3-WAY TOGGLE SWITCH. INSIDE CABINET.

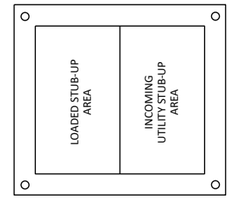
C1 / C4 — NORMALLY OPEN CONTACTOR. 120 VOLT, 60 HZ CONTROL COIL. EACH CONTACTOR UNIT TO HAVE 3 POLES, 30 AMP RATED (AC-3/AC-7B UTILIZATION) FOR CAPACITIVE LED LIGHTING IN-RUSH LOAD, 500 UF MINIMUM. 400 VOLT AC, NON-MERCURY TYPE. UL RATED FOR -25°C TO +55°C AMBIENT OPERATING TEMPERATURES. ABB ESB63 SERIES, WEG CWM32, OR APPROVED EQUAL. PROVIDE WEG CWM65 SERIES (60 AMP AC-3, 3-POLE) OR EQUAL WHERE 60 AMP CONTACTORS ARE REQUIRED.

FOUNDATION NOTES:

1. ALL CONDUIT LOCATED IN STREET LIGHT BASES, FEED POINT FOUNDATIONS, AND PULL BOXES ARE TO HAVE BELL ENDS.
2. COSTS FOR ADDITIONAL FOUNDATION HEIGHT AND DEPTH ARE TO BE INCIDENTAL.



C FEED POINT CABINET FOUNDATION DETAIL



BASE VIEW

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DATE
NORTH DAKOTA

8/13/2025

Lighting Details

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\86000\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Details.dwg Details (6)-8/13/2025 2:41 PM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	23

EXISTING LIGHTING SCHEDULE

ITEM	STATION	OFFSET	REMOVE CONCRETE FOUNDATION	LIGHT STANDARD		LUMINAIRE		
				SALVAGE	RESET	REMOVE	SALVAGE	RESET
LIGHTING SYSTEM B								
EX-1	137+99	13' LT	1	1			1	
EX-2	145+45	67' LT	1	1			1	
EX-3	152+51	16' RT	1	1			1	
EX-4	153+64	99' RT	1	1			1	
EX-5	153+50	55' LT	1	1			1	
EX-6	309+96	25' LT	1	1			1	
EX-7	154+99	59' LT	1	1			1	
EX-8	156+37	9' LT	1	1			1	
EX-9	154+92	90' RT	1	1			1	
EX-10	315+26	16' LT	1	1			1	
EX-11	317+29	25' LT	1	1			1	
EX-13	209+07	28' LT	1	1			1	
EX-14	210+60	27' LT	1	1			1	
TOTAL			**13**	**13**	**0**	**0**	**13**	**0**
LIGHTING SYSTEM C								
EX-12	207+13	28' LT	1	1			1	
EX-15	214+46	57' RT	1	1		1		
EX-16	223+57	80' RT	1	1		1		
EX-17	232+10	80' RT	1	1		1		
TOTAL			**4**	**4**	**0**	**3**	**1**	**0**
REVISE LIGHTING SYSTEM								
EX-18	237+59	20' LT	1	1	1		1	1
EX-19	239+73	20' LT	1	1	1		1	1
EX-20	241+88	18' LT	1	1	1		1	1
EX-21	244+03	19' LT	1	1	1		1	1
EX-22	246+18	19' LT	1	1	1		1	1
EX-23	248+33	25' LT	1	1	1		1	1
TOTAL			**6**	**6**	**6**	**0**	**6**	**6**

PROPOSED LIGHTING SCHEDULE

ITEM	STATION	OFFSET	MOUNTING HEIGHT	MAST AREM LENGTH
LIGHTING SYSTEM A				
PULL BOX 1	108+64.2	46.5' LT	-	-
A1-4	108+64.2	26.9' RT	30'	8'
A1-5	106+99.2	46.5' LT	30'	8'
A1-6	105+34.2	35.4' RT	30'	8'
A1-7	103+77.5	52.4' LT	30'	8'
LIGHTING SYSTEM B				
FEED POINT B	130+71.8	56.1' LT	-	-
B1-1	130+53.0	58.1' LT	30'	8'
B1-2	129+89.1	118.2' LT	30'	8'
B1-5	128+07.6	72.3' LT	30'	8'
PULL BOX 5	130+63.8	28.9' RT	-	-
PULL BOX 6	128+60.6	109.8' RT	-	-
B2-1	128+39.3	55.5' RT	30'	8'
B2-2	127+66.1	14.5' RT	30'	8'
B2-3	126+57.4	19.2' RT	30'	8'
B3-1	129+88.2	51.8' RT	30'	8'
B4-1	131+41.8	25.5' RT	30'	8'
B4-2	132+98.2	25.5' RT	30'	8' TWIN
PULL BOX 7	134+20.9	23.0' RT	-	-
B4-3	134+20.9	52.5' RT	30'	8'
B4-4	135+68.2	52.5' RT	30'	8'
B4-5	136+93.2	52.5' RT	30'	8'
PULL BOX 8	136+99.4	23.0' RT	-	-
B4-6	138+32.5	25.5' RT	30'	8' TWIN
B4-7	139+63.4	25.5' RT	30'	8' TWIN
PULL BOX 9	139+76.0	60.3' RT	-	-
B4-8	141+39.8	51.5' RT	30'	8'
PULL BOX 10	142+48.4	62.0' RT	-	-
B4-9	142+67.7	25.5' RT	30'	8' TWIN
B4-10	143+93.8	25.5' RT	30'	8'
B4-11	145+20.3	31.8' RT	30'	8'
L1	137+87.7	79.4' LT	30'	8'
L2	145+45.4	71.2' LT	30'	8'
FEED POINT C	155+34.2	65.5' LT	-	-
C1-1	155+53.1	60.3' RT	30'	8'
C1-2	154+70.3	136.7' RT	30'	8'
PULL BOX 12	315+60.3	31.4' LT	-	-
C1-3	316+58.5	36.1' LT	30'	8'
C1-4	317+88.5	34.3' LT	30'	8'
C1-5	315+65.6	37.4' RT	30'	8'
C1-6	153+55.2	124.5' RT	30'	8'
C1-7	152+83.1	41.3' RT	30'	8'
C1-8	151+46.2	29.5' RT	30'	8'
C1-9	149+97.0	25.5' RT	30'	8'
C1-10	148+32.0	25.5' RT	30'	8'
C1-11	146+67.0	25.5' RT	30'	8'
C2-1	312+26.9	75.0' LT	30'	8'
PULL BOX 11	311+58.3	44.1' LT	-	-
C2-2	310+76.4	36.3' LT	30'	8'
C2-3	309+46.4	31.5' LT	30'	8'
C2-4	311+74.7	35.9' RT	30'	8'
C2-5	153+00.9	60.1' LT	30'	8'
C3-1	156+03.4	20.4' LT	30'	8'
C3-2	157+33.6	30.4' LT	30'	8'
C3-3	158+97.9	28.2' LT	30'	8'

PROPOSED LIGHTING SCHEDULE

ITEM	STATION	OFFSET	MOUNTING HEIGHT	MAST AREM LENGTH
LIGHTING SYSTEM C				
PULL BOX 4	208+37.9	46.2' LT	-	-
B1-3	206+88.1	26.5' LT	30'	8'
B1-4	208+36.7	19.7' RT	30'	8'
B2-4	212+37.4	37.4' RT	30'	8'
B2-5	215+37.4	39.5' RT	30'	8'
B2-6	218+42.4	39.5' RT	30'	8'
B2-7	221+62.4	39.5' RT	30'	8'
B2-8	224+92.4	39.5' RT	30'	8'
B2-9	228+22.4	39.5' RT	30'	8'
B2-10	231+52.4	39.5' RT	30'	8'
B2-11	234+77.4	37.2' RT	30'	8'
B3-2	211+39.5	33.3' LT	30'	8'
B3-3	213+87.4	25.5' LT	30'	8'
B3-4	216+87.4	25.5' LT	30'	8'
B3-5	220+02.4	25.5' LT	30'	8'
B3-6	223+27.4	25.5' LT	30'	8'
B3-7	226+57.4	25.5' LT	30'	8'
B3-8	229+87.4	25.5' LT	30'	8'
B3-9	233+17.4	25.5' LT	30'	8'
B3-10	236+37.4	25.5' LT	30'	8'
L3	214+93.4	69.9' RT	30'	8'
L4	223+57.7	74.6' RT	30'	8'
L5	232+10.6	70.8' RT	30'	8'
REVISE LIGHTING SYSTEM				
EX-18	237+97.4	25.5' LT	EXISTING (30')	EXISTING (TENON)
EX-19	240+02.4	25.5' LT	EXISTING (30')	EXISTING (TENON)
EX-20	242+08.0	25.5' LT	EXISTING (30')	EXISTING (TENON)
EX-21	244+18.0	25.5' LT	EXISTING (30')	EXISTING (TENON)
EX-22	246+28.0	25.5' LT	EXISTING (30')	EXISTING (TENON)
EX-23	248+38.0	25.5' LT	EXISTING (30')	EXISTING (TENON)

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8/13/2025

Lighting Tables

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7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	24

CONDUIT AND CONDUCTOR SCHEDULE

ITEM	CIRCUIT	CONDUIT RUN TOTAL	CONDUIT RUN SIZE (IN)	CONDUCTOR RUN TOTAL	CONDUCTOR RUN TYPE
LIGHTING SYSTEM A					
STA 109+00 TO PULL BOX 1	A1	35	2	76 76 38	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 1 TO A1-4	A1	75	2	164 164 82	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
A1-4 TO A1-6	A1	330	2	676 676 338	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 1 TO A1-5	A1	165	2	344 344 172	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
A1-5 TO A1-7	A1	320	2	656 656 328	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)

LIGHTING SYSTEM A - QUANTITIES (A)

CONCRETE FOUNDATION - HIGHWAY LIGHTING	DECORATIVE LIGHT STANDARD (SINGLE MAST ARM-30' MTG HT)	DECORATIVE LED LUMINAIRE	2" DIA RIGID CONDUIT	UNDERGROUND CONDUCTOR NO. 6 TYPE RHW-USE	UNDERGROUND CONDUCTOR NO. 6 TYPE THHN/THWN	PULL BOX		LIGHTING SYSTEM A
EA	EA	EA	LF	LF	LF	EA		EA
4	4	4	925	3,832	958	1		1

(A) QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. INCLUDE ALL COST TO PROVIDE A FULLY OPERATIONAL SYSTEM IN THE BID PRICE FOR "LIGHTING SYSTEM A".

LIGHTING SYSTEM C - QUANTITIES (A)

REMOVE CONCRETE FOUNDATION - LIGHT STANDARD	REMOVE LUMINAIRE	REMOVE/ABANDON CONDUIT AND CONDUCTOR	SALVAGE LIGHT STANDARD	SALVAGE LUMINAIRE	CONCRETE FOUNDATION - HIGHWAY LIGHTING	DECORATIVE LIGHT STANDARD (SINGLE MAST ARM-30' MTG HT)	DECORATIVE LED LUMINAIRE	2" DIA RIGID CONDUIT	UNDERGROUND CONDUCTOR NO. 6 TYPE RHW-USE	UNDERGROUND CONDUCTOR NO. 6 TYPE THHN/THWN	PULL BOX		LIGHTING SYSTEM C
EA	EA	LSUM	EA	LSUM	EA	EA	EA	LF	LF	LF	EA		EA
4	3	1	4	1	22	22	22	5,665	23,320	5,830	1		1

(A) QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. INCLUDE ALL COST TO PROVIDE A FULLY OPERATIONAL SYSTEM IN THE BID PRICE FOR "LIGHTING SYSTEM C".

CONDUIT AND CONDUCTOR SCHEDULE

ITEM	CIRCUIT	CONDUIT RUN TOTAL	CONDUIT RUN SIZE (IN)	CONDUCTOR RUN TOTAL	CONDUCTOR RUN TYPE
LIGHTING SYSTEM C					
PULL BOX 4 TO B1-3	B1	150	2	314 314 157	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 4 TO B1-4	B1	65	2	144 144 72	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 6 TO B2-4	B2	130	2	274 274 137	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B2-4 TO B2-5	B2	300	2	616 616 308	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B2-5 TO B2-6	B2	305	2	626 626 313	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B2-6 TO B2-7	B2	320	2	656 656 328	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B2-7 TO B2-8	B2	330	2	676 676 338	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B2-8 TO B2-9	B2	330	2	676 676 338	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B2-9 TO B2-10	B2	330	2	676 676 338	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B2-10 TO B2-11	B2	325	2	666 666 333	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-2 TO B3-3	B3	250	2	516 516 258	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-3 TO B3-4	B3	300	2	616 616 308	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-4 TO B3-5	B3	315	2	646 646 323	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-5 TO B3-6	B3	325	2	666 666 333	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-6 TO B3-7	B3	330	2	676 676 338	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-7 TO B3-8	B3	330	2	676 676 338	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-8 TO B3-9	B3	330	2	676 676 338	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-9 TO B3-10	B3	320	2	656 656 328	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
L3 TO EX LIGHT-SOUTH	N/A	235	2	486 243	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)
L4 TO EX LIGHT-SOUTH	N/A	115	2	246 123	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)
L5 TO EX LIGHT-SOUTH	N/A	230	2	476 238	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)

CONDUIT AND CONDUCTOR SCHEDULE

ITEM	CIRCUIT	CONDUIT RUN TOTAL	CONDUIT RUN SIZE (IN)	CONDUCTOR RUN TOTAL	CONDUCTOR RUN TYPE
REVISE LIGHTING SYSTEM					
EX-18 TO EX-19	EXISTING	205	2	426 213	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)
EX-19 TO EX-20	EXISTING	205	2	426 213	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)
EX-20 TO EX-21	EXISTING	210	2	436 218	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)
EX-21 TO EX-22	EXISTING	210	2	436 218	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)
EX-22 TO EX-23	EXISTING	210	2	436 218	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)
EX-23 TO 250+48	EXISTING	210	2	436 218	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)

REVISE LIGHTING SYSTEM - QUANTITIES (A)

REMOVE CONCRETE FOUNDATION - LIGHT STANDARD	REMOVE/ABANDON CONDUIT AND CONDUCTOR	RELOCATE LIGHT STANDARD	RELOCATE LUMINAIRE	CONCRETE FOUNDATION - HIGHWAY LIGHTING	2" DIA RIGID CONDUIT	UNDERGROUND CONDUCTOR NO. 6 TYPE RHW-USE	UNDERGROUND CONDUCTOR NO. 6 TYPE THHN/THWN		REVISE LIGHTING SYSTEM
EA	LSUM	EA	EA	EA	LF	LF	LF		EA
6	1	6	6	6	1,250	2,596	1,298		1

(A) QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. INCLUDE ALL COST TO PROVIDE A FULLY OPERATIONAL SYSTEM IN THE BID PRICE FOR "REVISE LIGHTING SYSTEM".

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/13/2025

Lighting Tables

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

H:\JBN\8600\8654\8654_0004 9th St\CAD\0_CITY PROJECT\Plans\140 - Lighting_Details.dwg-Details (2A)-8/13/2025 2:41 PM-(jerickson)

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	25

CONDUIT AND CONDUCTOR SCHEDULE

ITEM	CIRCUIT	CONDUIT RUN TOTAL	CONDUIT RUN SIZE (IN)	CONDUCTOR RUN TOTAL	CONDUCTOR RUN TYPE
LIGHTING SYSTEM B					
FEED POINT B TO SOP	N/A	100	2	465	(3) No. 2 RHW-USE (SERVICE)
FEED POINT B TO B1-1	B1	20	2	68 68 34	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B1-1 TO B1-2	B1	90	2	196 196 98	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B1-2 TO PULL BOX 4	B1	60	2	268 268 134	(4) NO. 6 RHW-USE (LIGHTING) (4) NO. 6 RHW-USE (FESTOON) (2) NO. 6 THHN/THWN (EGC)
B1-4 TO B1-5	B1	120	2	256 256 128	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
FEED POINT B TO PULL BOX 5	B2	85	2	196 196 98	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 5 TO PULL BOX 6	B2	240	2	492 492 246	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 6 TO B2-1	B2	60	2	268 268 134	(4) NO. 6 RHW-USE (LIGHTING) (4) NO. 6 RHW-USE (FESTOON) (2) NO. 6 THHN/THWN (EGC)
B2-1 TO B2-2	B2	85	2	186 186 93	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B2-2 TO B2-3	B2	110	2	236 236 118	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
FEED POINT B TO PULL BOX 5	B3	85	2	196 196 98	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 5 TO B3-1	B3	80	2	174 174 87	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B3-1 TO B3-2	B3	110	2	236 236 118	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
FEED POINT B TO PULL BOX 5	B4	85	2	196 196 98	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 5 TO B4-1	B4	80	2	174 174 87	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-1 TO B4-2	B4	155	2	326 326 163	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-2 TO PULL BOX 7	B4	125	2	264 264 132	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 7 TO B4-3	B4	30	2	74 74 37	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-3 TO B4-4	B4	145	2	306 306 153	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-4 TO B4-5	B4	125	2	266 266 133	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-5 TO PULL BOX 8	B4	30	2	74 74 37	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 8 TO B4-6	B4	135	2	284 284 142	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-6 TO B4-7	B4	130	2	276 276 138	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-7 TO PULL BOX 9	B4	40	2	94 94 47	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)

CONDUIT AND CONDUCTOR SCHEDULE

ITEM	CIRCUIT	CONDUIT RUN TOTAL	CONDUIT RUN SIZE (IN)	CONDUCTOR RUN TOTAL	CONDUCTOR RUN TYPE
LIGHTING SYSTEM B (CONTINUED)					
PULL BOX 9 TO B4-8	B4	165	2	344 344 172	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-8 TO PULL BOX 10	B4	110	2	234 234 117	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 10 TO B4-9	B4	40	2	94 94 47	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-9 TO B4-10	B4	125	2	266 266 133	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
B4-10 TO B4-11	B4	130	2	276 276 138	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
FEED POINT C TO SOP	N/A	20	2	195	(3) No. 2 RHW-USE (SERVICE)
FEED POINT C TO C1-1	C1	130	2	288 288 144	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-1 TO C1-2	C1	115	2	246 246 123	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-2 TO PULL BOX 12	C1	105	2	448 448 224	(4) NO. 6 RHW-USE (LIGHTING) (4) NO. 6 RHW-USE (FESTOON) (2) NO. 6 THHN/THWN (EGC)
PULL BOX 12 TO C1-3	C1	100	2	214 214 107	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-3 TO C1-4	C1	131	2	278 278 139	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 12 TO C1-5	C1	70	2	154 154 77	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-5 TO C1-6	C1	125	2	266 266 133	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-6 TO C1-7	C1	120	2	256 256 128	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-7 TO C1-8	C1	140	2	296 296 148	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-8 TO C1-9	C1	150	2	316 316 158	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-9 TO C1-10	C1	165	2	346 346 173	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C1-10 TO C1-11	C1	165	2	346 346 173	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
FEED POINT C TO C2-1	C2	40	2	108 108 54	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C2-1 TO PULL BOX 11	C2	80	2	348 348 174	(4) NO. 6 RHW-USE (LIGHTING) (4) NO. 6 RHW-USE (FESTOON) (2) NO. 6 THHN/THWN (EGC)
PULL BOX 11 TO C2-2	C2	85	2	184 184 92	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C2-2 TO C2-3	C2	130	2	276 276 138	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
PULL BOX 11 TO C2-4	C2	80	2	174 174 87	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C2-4 TO C2-5	C2	135	2	286 286 143	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)

CONDUIT AND CONDUCTOR SCHEDULE

ITEM	CIRCUIT	CONDUIT RUN TOTAL	CONDUIT RUN SIZE (IN)	CONDUCTOR RUN TOTAL	CONDUCTOR RUN TYPE
LIGHTING SYSTEM B (CONTINUED)					
FEED POINT C TO C3-1	C3	85	2	198 198 99	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C3-1 TO C3-2	C3	130	2	276 276 138	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
C3-2 TO C3-3	C3	165	2	346 346 173	(2) NO. 6 RHW-USE (LIGHTING) (2) NO. 6 RHW-USE (FESTOON) (1) NO. 6 THHN/THWN (EGC)
L1 TO EX LIGHT-WEST	N/A	265	2	546 273	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)
L2 TO EX LIGHT-WEST	N/A	230	2	476 238	(2) NO. 6 RHW-USE (LIGHTING) (1) NO. 6 THHN/THWN (EGC)

LIGHTING SYSTEM B - QUANTITIES (A)

REMOVE CONCRETE FOUNDATION - LIGHT STANDARD	REMOVE/ABANDON CONDUIT AND CONDUCTOR	SALVAGE LIGHT STANDARD	SALVAGE LUMINAIRE	CONCRETE FOUNDATION - HIGHWAY LIGHTING	DECORATIVE LIGHT STANDARD (SINGLE MAST ARM-30' MTG HT)	DECORATIVE LIGHT STANDARD (TWIN MAST ARM-30' MTG HT)	DECORATIVE LED LUMINAIRE	2" DIA RIGID CONDUIT	UNDERGROUND CONDUCTOR NO. 2 TYPE RHW-USE	UNDERGROUND CONDUCTOR NO. 6 TYPE RHW-USE	UNDERGROUND CONDUCTOR NO. 6 TYPE THHN/THWN	FEED POINT - PAD MOUNTED	CONCRETE FOUNDATION-FEED POINT	PULL BOX		LIGHTING SYSTEM B
EA	LSUM	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA		EA
13	1	13	13	39	35	4	43	5,856	660	25,984	6,496	2	2	8		1

(A) QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. INCLUDE ALL COST TO PROVIDE A FULLY OPERATIONAL SYSTEM IN THE BID PRICE FOR "LIGHTING SYSTEM B".

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/13/2025

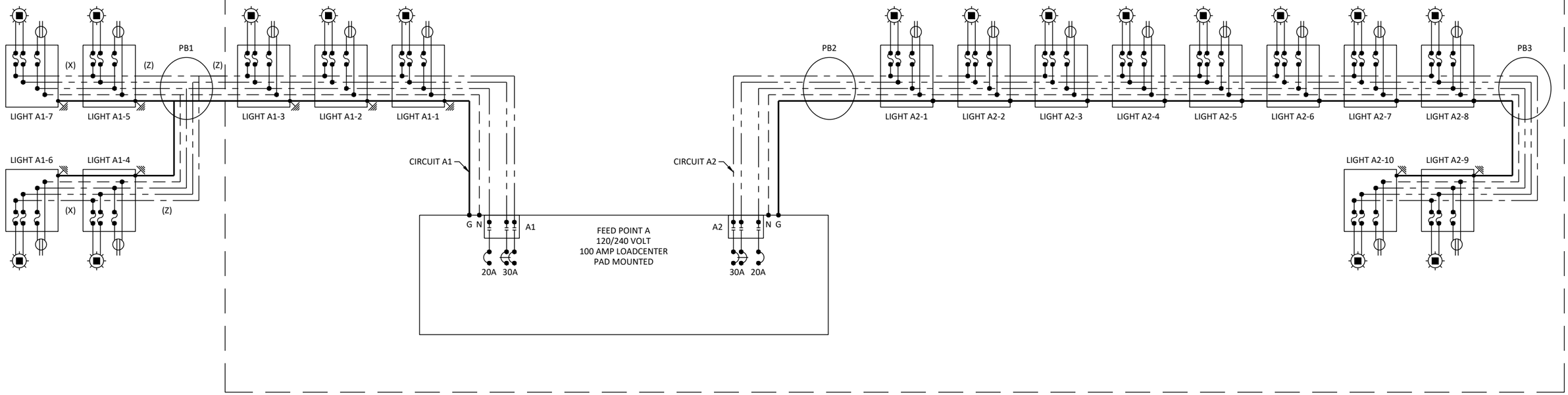
Lighting Tables

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	26

LIGHTING EQUIPMENT WITHIN THE EXCEPTION AREA SHOWN FOR INFORMATIONAL PURPOSES ONLY. TO BE INSTALLED BY OTHERS AND SUBJECT TO CHANGE.



WIRING DIAGRAM LEGEND

- LED LUMINAIRE, 240V, SEE PLAN NOTES
- FESTOON, 120V, SEE PLAN NOTES
- LIGHT STANDARD, SEE LIGHTING SCHEDULE TABLES AND PLAN NOTES
- PULL BOX
- GROUND ROD
- IN-LINE FUSE HOLDER, BREAKAWAY TYPE WITH TYPE FNM 10 AMP FUSE
- PHASE A CONDUCTOR
- PHASE B CONDUCTOR
- NEUTRAL CONDUCTOR
- EQUIPMENT GROUND CONDUCTOR

(X) (4) - NO. 6 RHW-USE, (1) - NO. 6 THHN/THWN
(Y) (8) - NO. 6 RHW-USE, (2) - NO. 6 THHN/THWN
(Z) EMPTY CONDUIT

NOTES:

1. GROUND ALL LUMINAIRES AND FESTOONS.
2. FURNISH AND INSTALL CONDUIT AND CONDUCTOR AS SHOWN IN THE LIGHTING SCHEDULE TABLES.
3. NO SPLICES ARE ALLOWED IN PULL BOXES UNLESS APPROVED BY THE ENGINEER.

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
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DATE
NORTH DAKOTA

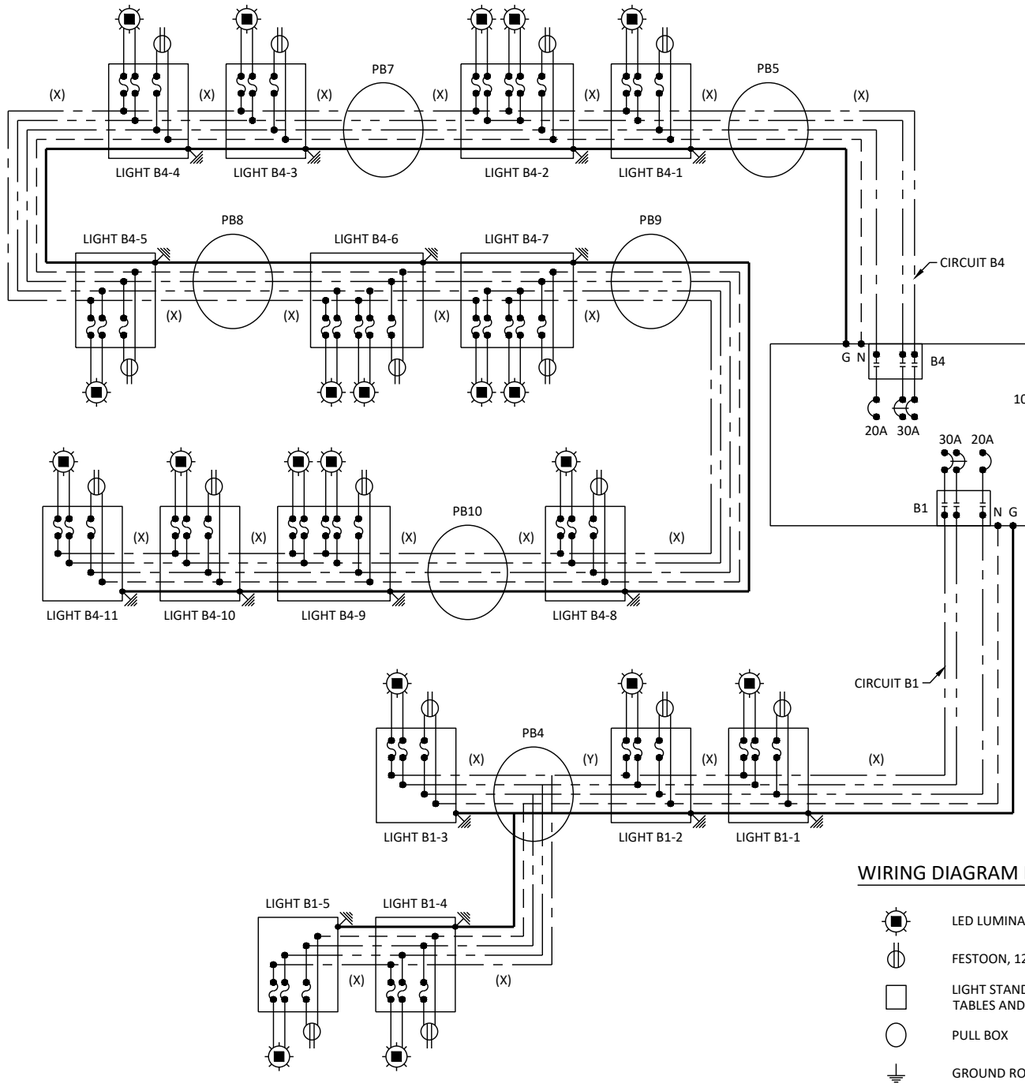
8/13/2025

Wiring Diagram - Feed Point A

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	27



WIRING DIAGRAM LEGEND

- LED LUMINAIRE, 240V, SEE PLAN NOTES
- FESTOON, 120V, SEE PLAN NOTES
- LIGHT STANDARD, SEE LIGHTING SCHEDULE TABLES AND PLAN NOTES
- PULL BOX
- GROUND ROD
- IN-LINE FUSE HOLDER, BREAKAWAY TYPE WITH TYPE FNM 10 AMP FUSE
- PHASE A CONDUCTOR
- PHASE B CONDUCTOR
- NEUTRAL CONDUCTOR
- EQUIPMENT GROUND CONDUCTOR

(X) (4) - NO. 6 RHW-USE, (1) - NO. 6 THHN/THWN
(Y) (8) - NO. 6 RHW-USE, (2) - NO. 6 THHN/THWN
(Z) EMPTY CONDUIT

NOTES:

1. GROUND ALL LUMINAIRES AND FESTOONS.
2. FURNISH AND INSTALL CONDUIT AND CONDUCTOR AS SHOWN IN THE LIGHTING SCHEDULE TABLES.
3. NO SPLICES ARE ALLOWED IN PULL BOXES UNLESS APPROVED BY THE ENGINEER.

CITY OF WEST FARGO

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

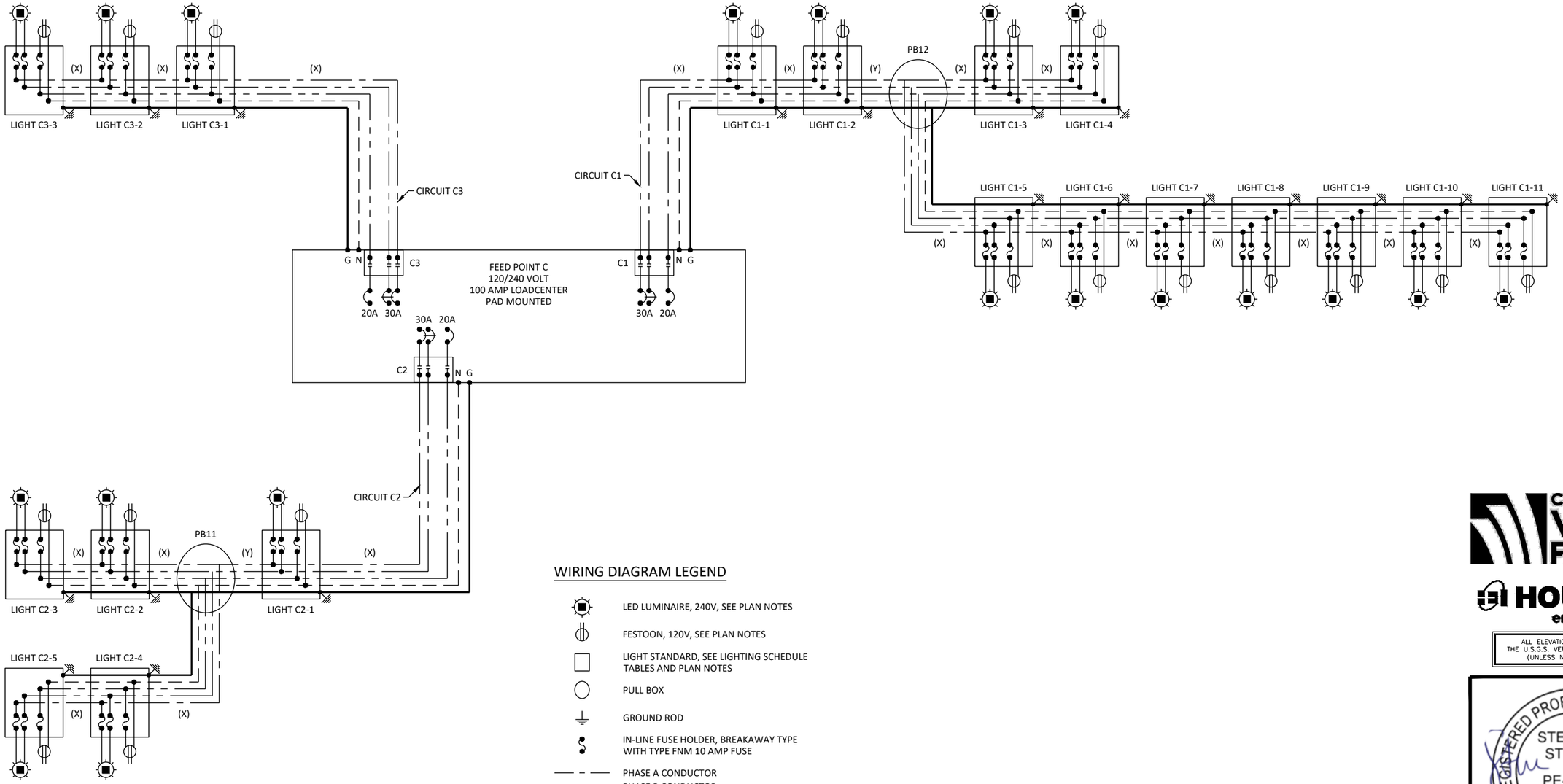
8/13/2025

Wiring Diagram - Feed Point B

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	140	28



WIRING DIAGRAM LEGEND

- LED LUMINAIRE, 240V, SEE PLAN NOTES
- FESTOON, 120V, SEE PLAN NOTES
- LIGHT STANDARD, SEE LIGHTING SCHEDULE TABLES AND PLAN NOTES
- PULL BOX
- GROUND ROD
- IN-LINE FUSE HOLDER, BREAKAWAY TYPE WITH TYPE FNM 10 AMP FUSE
- PHASE A CONDUCTOR
- PHASE B CONDUCTOR
- NEUTRAL CONDUCTOR
- EQUIPMENT GROUND CONDUCTOR

(X) (4) - NO. 6 RHW-USE, (1) - NO. 6 THHN/THWN
(Y) (8) - NO. 6 RHW-USE, (2) - NO. 6 THHN/THWN
(Z) EMPTY CONDUIT

NOTES:

1. GROUND ALL LUMINAIRES AND FESTOONS.
2. FURNISH AND INSTALL CONDUIT AND CONDUCTOR AS SHOWN IN THE LIGHTING SCHEDULE TABLES.
3. NO SPLICES ARE ALLOWED IN PULL BOXES UNLESS APPROVED BY THE ENGINEER.

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

8/13/2025

Wiring Diagram - Feed Point C

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SU-8-992(045)	150	1

GENERAL NOTES:

1. EXISTING TRAFFIC SIGNAL SYSTEM EQUIPMENT, CONDUIT, AND CABLES TO REMAIN IN PLACE UNLESS SPECIFIED OTHERWISE.
2. INSTALL NEW TRAFFIC SIGNAL CABLES CONTINUOUS WITHOUT SPLICE FROM THE TRAFFIC SIGNAL CABINET TO RELOCATED EQUIPMENT.
3. TRAFFIC SIGNAL SYSTEM REVISIONS ASSUME NEW CABLE WILL BE NECESSARY TO ACCOMMODATE RELOCATIONS. IF EXISTING TRAFFIC SIGNAL CABLES ARE OF SUFFICIENT LENGTH, THEY MAY BE USED TO EXTEND INTO RELOCATED ITEMS AT THE DISCRETION OF THE ENGINEER.

SPECIFIC NOTES:

(A) REMOVE PUSHBUTTON & POST

(B) ABANDON 1" CONDUIT

(C) REMOVE 1 - NO. 16 AWG 2 CABLE (PUSHBUTTON)

(D) REMOVE PUSHBUTTON
F&I APS PUSHBUTTON

(E) F&I APS PUSHBUTTON & POST

(F) F&I PEDESTRIAN COUNTDOWN SIGNAL HEAD

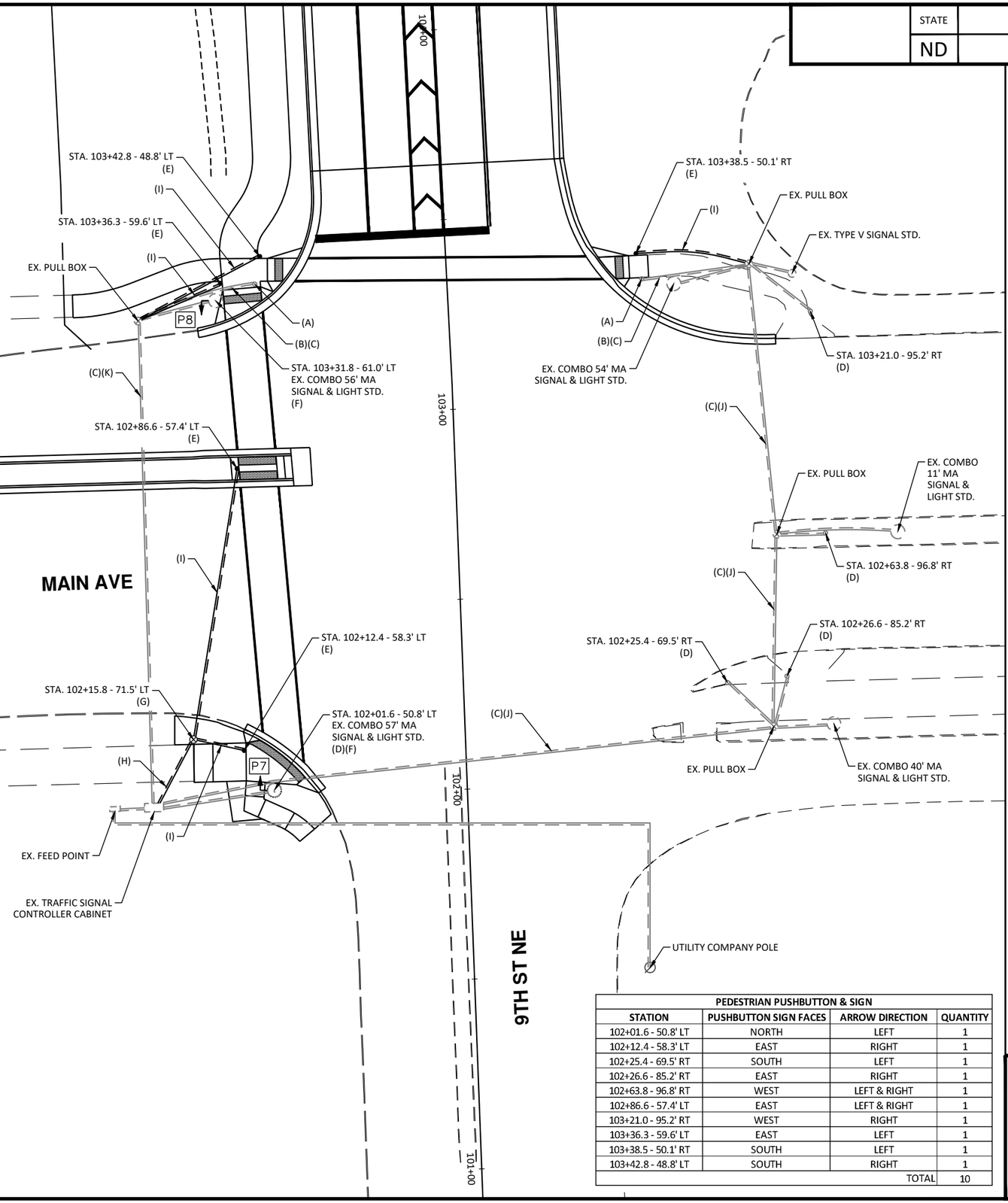
(G) F&I PULL BOX

(H) F&I 2" CONDUIT
F&I 2 - NO. 16 AWG 2 CABLE (PUSHBUTTON)
F&I 1 - 1/C NO. 14 TYPE THW (TRACER WIRE)

(I) F&I 1" CONDUIT
F&I 1 - NO. 16 AWG 2 CABLE (PUSHBUTTON)
F&I 1 - 1/C NO. 14 TYPE THW (TRACER WIRE)

(J) INPLACE CONDUIT
F&I 1 - NO. 16 AWG 2 CABLE (PUSHBUTTON)

(K) INPLACE CONDUIT
F&I 2 - NO. 16 AWG 2 CABLE (PUSHBUTTON)



SIGNAL QUANTITIES (A)				
SPEC	CODE	ITEM DESCRIPTION	UNIT	QUANTITY
772	0100	PULLBOX	EA	1
772	0200	1IN DIAMETER RIDID CONDUIT	LF	175
772	0240	2IN DIAMETER RIGID CONDUIT	LF	25
772	0314	UNDERGROUND CONDUCTOR NO 14 - TYPE THW	LF	250
772	0420	NO 16 AWG 2 CONDUCTOR CABLE	LF	895
772	2060	PEDESTRIAN COUNTDOWN SIGNAL HEAD-POST MTD	EA	2
772	2200	PEDESTRIAN PUSHBUTTON POST	EA	5
772	2215	PEDESTRIAN PUSHBUTTON & SIGN	EA	10
772	3147	REMOVE PEDESTRIAN PUSHBUTTON	EA	7
772		REMOVE PEDESTRIAN PUSHBUTTON POST	EA	2
772	2904	REVISE TRAFFIC SIGNAL SYSTEM	EA	1

(A) Quantities shown for informational purposes only. Include all costs in the price bid for "Revise Traffic Signal System".

Conductor			Ex Cable 1 (No. 12 AWG 12)		Ex Cable 2 (No. 12 AWG 12)	
Run	Base	Tracer	Head	Indication	Head	Indication
1	Black		**P7**	**Ø8 Walk**	**P8**	**Ø8 Walk**
2	White			Neutral		Neutral
3	Red		1,2,3	Ø8 Red		Spare
4	Green			Ground		Ground
5	Orange		1,2,3	Ø8 Yellow	4	Ø1 Yellow Arrow
6	Blue		1,2,3	Ø8 Green	4	Ø1 Green Arrow
7	White	Black	**P7**	**Ø8 Don't Walk**	**P8**	**Ø8 Don't Walk**
8	Red	Black		Spare	4,5,6,7	Ø6 Red
9	Green	Black	P1	Ø2 Walk	P2	Ø6 Walk
10	Orange	Black		Spare	4,5,6,7	Ø6 Yellow
11	Blue	Black		Spare	4,5,6,7	Ø6 Green
12	Black	White	P1	Ø2 Don't Walk	P2	Ø6 Don't Walk

PEDESTRIAN PUSHBUTTON & SIGN			
STATION	PUSHBUTTON SIGN FACES	ARROW DIRECTION	QUANTITY
102+01.6 - 50.8' LT	NORTH	LEFT	1
102+12.4 - 58.3' LT	EAST	RIGHT	1
102+25.4 - 69.5' RT	SOUTH	LEFT	1
102+26.6 - 85.2' RT	EAST	RIGHT	1
102+63.8 - 96.8' RT	WEST	LEFT & RIGHT	1
102+86.6 - 57.4' LT	EAST	LEFT & RIGHT	1
103+21.0 - 95.2' RT	WEST	RIGHT	1
103+36.3 - 59.6' LT	EAST	LEFT	1
103+38.5 - 50.1' RT	SOUTH	LEFT	1
103+42.8 - 48.8' LT	SOUTH	RIGHT	1
		TOTAL	10

N

15 0 15 30
Scale Feet

CITY OF WEST FARGO

HOUSTON engineering, inc.

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE
NORTH DAKOTA

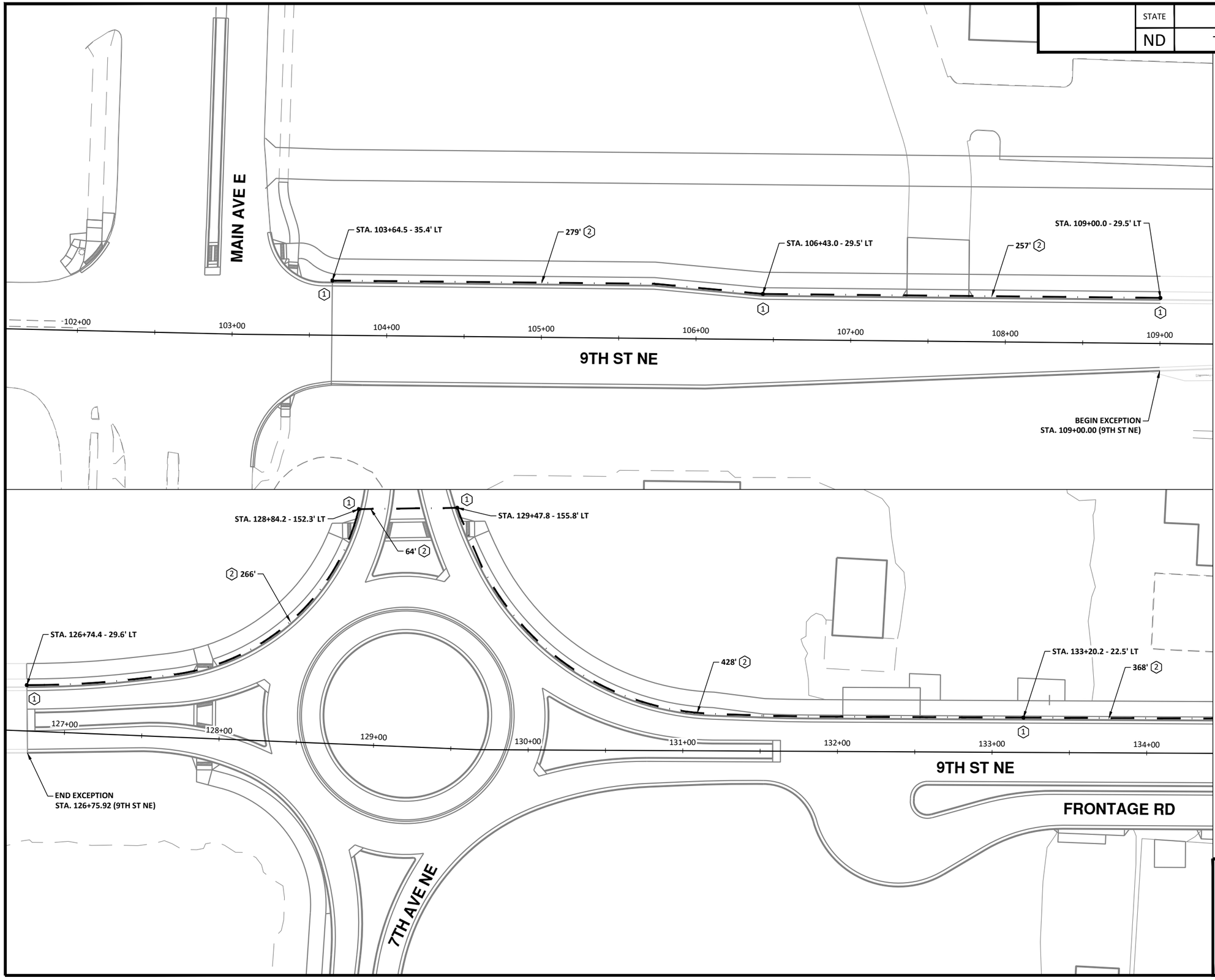
8/1/2025

PROPOSED TRAFFIC SIGNAL

9th St NE from Main Ave to 12th Ave
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	160	1



N

30 0 30 60
Scale Feet

LEGEND

- PULL BOX SEE STANDARD DRAWING D-770-3
- 2 - 2" HDPE CONDUIT W/ PULL ROPE AND TRACER WIRE
- (1) F&I PULL BOX
- (2) F&I 2 - 2" HDPE CONDUIT W/ PULL ROPE AND TRACER WIRE (SEE PLAN NOTES)

NOTES:

1. INSTALL CONDUITS 1' BEHIND BACK OF CURB (TYP.).

CITY OF WEST FARGO

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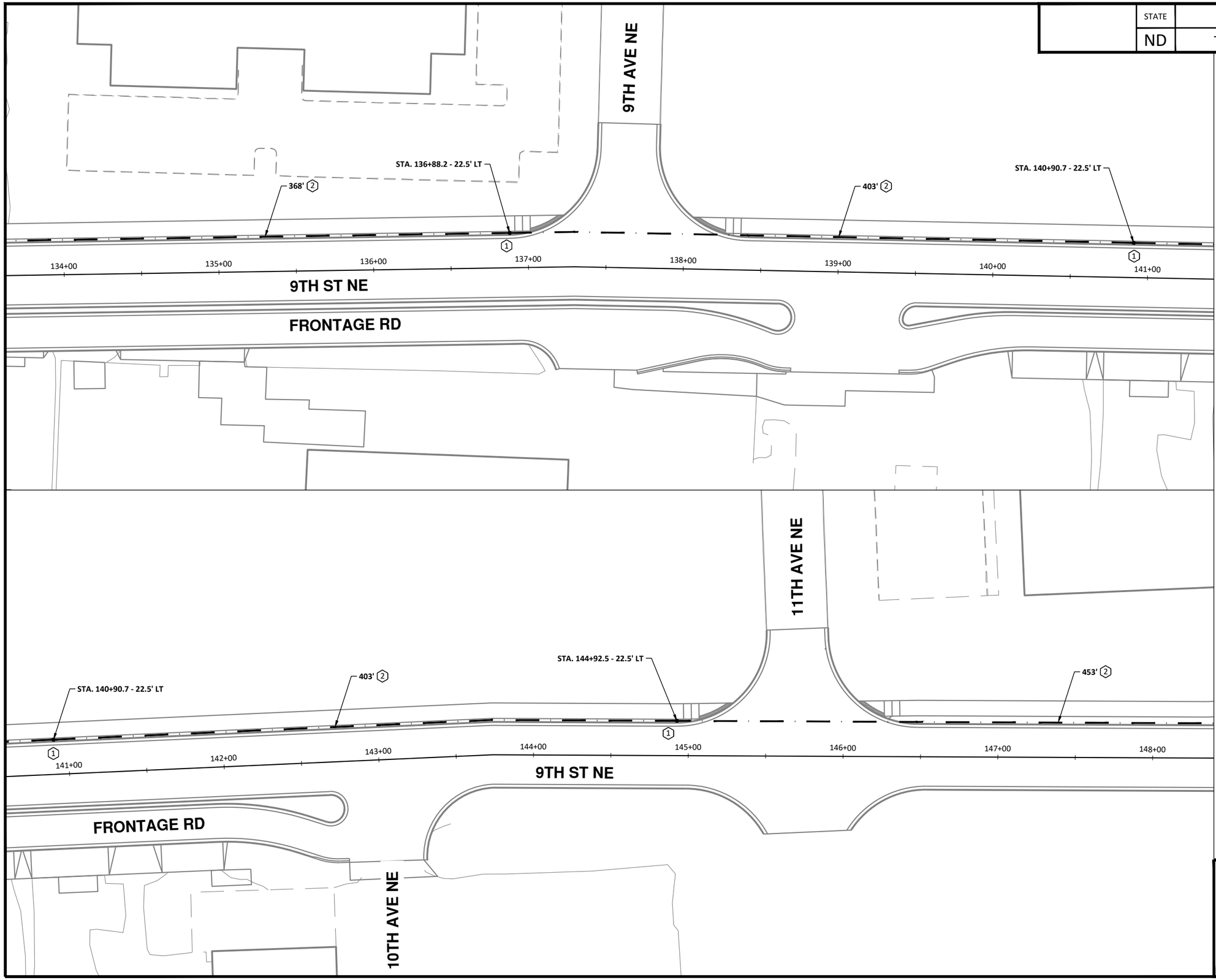
REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE 8/1/2025
NORTH DAKOTA

ITS - Layout

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	160	2



N

30 0 30 60
Scale Feet

LEGEND

- PULL BOX SEE STANDARD DRAWING D-770-3
- 2 - 2" HDPE CONDUIT W/ PULL ROPE AND TRACER WIRE
- (1) F&I PULL BOX
- (2) F&I 2 - 2" HDPE CONDUIT W/ PULL ROPE AND TRACER WIRE (SEE PLAN NOTES)

NOTES:

1. INSTALL CONDUITS 1' BEHIND BACK OF CURB (TYP.).

CITY OF WEST FARGO

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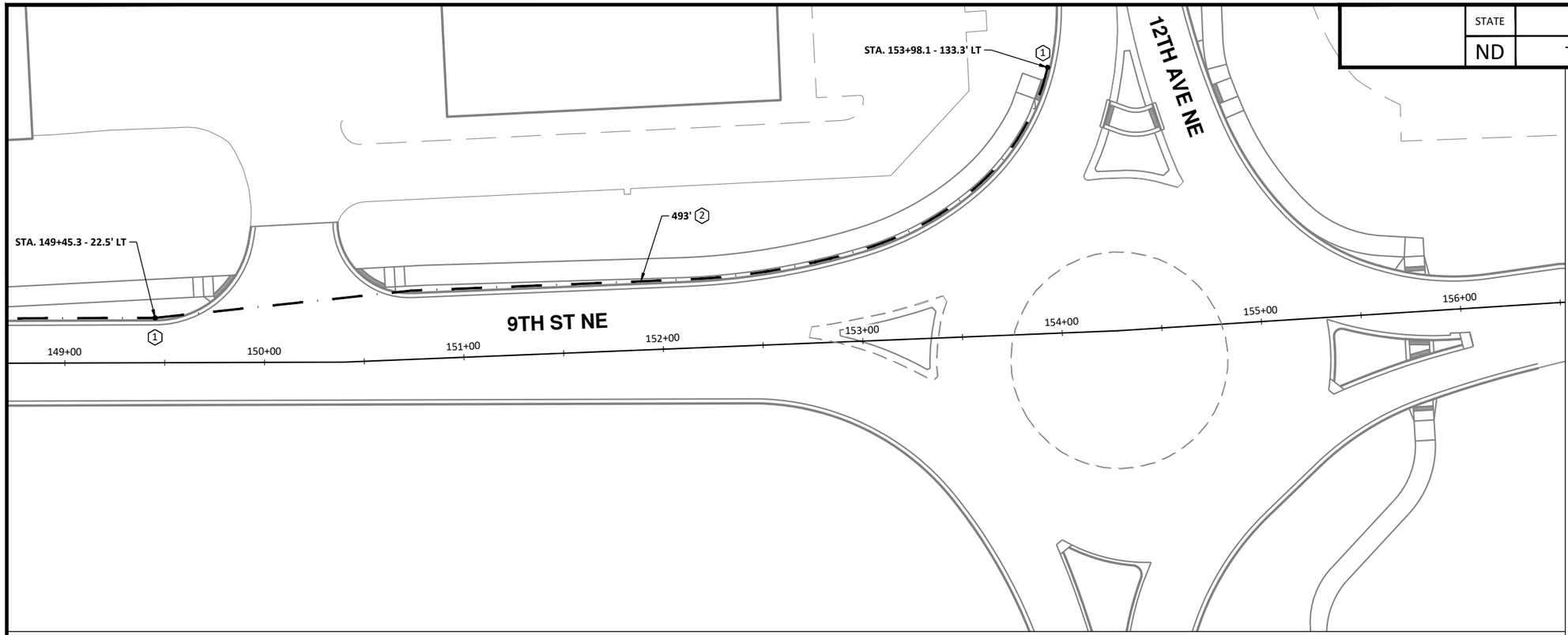
REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE 8/1/2025
NORTH DAKOTA

ITS - Layout

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-SU-FXP-8-992(045)	160	3



N

30 0 30 60

Scale Feet

LEGEND

- PULL BOX SEE STANDARD DRAWING D-770-3
- 2 - 2" HDPE CONDUIT W/ PULL ROPE AND TRACER WIRE
- (1) F&I PULL BOX
- (2) F&I 2 - 2" HDPE CONDUIT W/ PULL ROPE AND TRACER WIRE (SEE PLAN NOTES)

NOTES:

1. INSTALL CONDUITS 1' BEHIND BACK OF CURB (TYP.).

IT SYSTEM - QUANTITIES (A)					
2" HDPE CONDUIT	PULL ROPE	TRACER WIRE	PULL BOX		IT SYSTEM
LF	LF	LF	EA		EA
6,828	7,268	3,634	12		1

(A) QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. INCLUDE ALL COST TO PROVIDE A FULLY OPERATIONAL SYSTEM IN THE BID PRICE FOR "IT SYSTEM".

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REGISTERED PROFESSIONAL ENGINEER
STEVEN L. STRACK
PE-10621
DATE 8/1/2025
NORTH DAKOTA

ITS - Layout

9th St NE from Main Ave to 12th Ave N
7th Ave NE from 9th St NE to 45th St N

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