

STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	24569	1	1

**NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION**

**TMA-CRP-TA-8-992(056)
City of West Fargo Project #6063
Cass County
8th Street West**

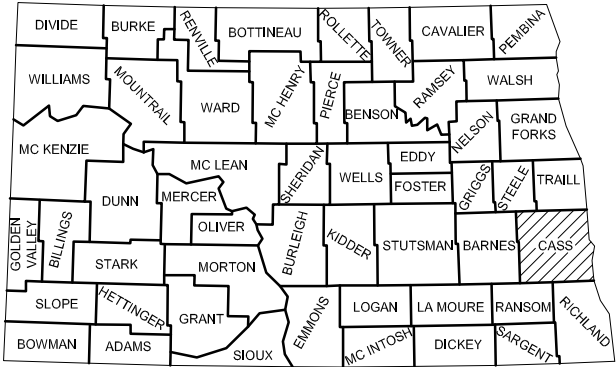
ADA Curb Ramp Revisions, Concrete Multi-Use Path

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	7/1/2025
Supplemental Specifications	NONE

PROJECT NUMBER \ DESCRIPTION	NET MILES	GROSS MILES
TMA-CRP-TA-8-992(056)	0.54	0.54

BASIS OF SURVEY:
All coordinates for this project are Cass County coordinates. They are derived from the "North Dakota Coordinate System of 1983", NAD83(2011) reference frame: North Dakota South Zone Comination Factor (cf) = 0.9998875

Vertical Datum NGVD 1929.



STATE COUNTY MAP

DESIGNER Stacy Johnson
DESIGNER Jerad Daul
DESIGNER David Fitchorn

CITY OF WEST FARGO

SRF Consulting Group



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PLAN SECTIONS

LIST OF STANDARD DRAWINGS

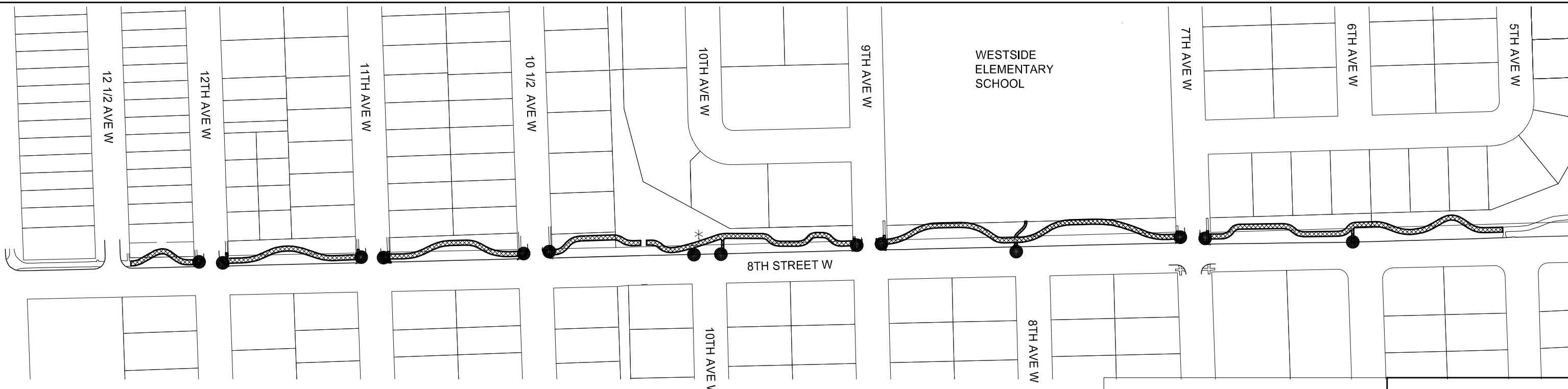
Section	Page(s)	Description
1	1	Title Sheet
2	1 - 3	Table of Contents
4	1	Scope of Work
6	1 - 3	Notes
8	1	Statement of Estimated Quantities
11	1	Earthwork
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80	1 - 8	Layouts
82	1 - 5	Survey Data Layouts
90	1 - 3	Paving Layouts
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Number	Description
D-101-1, 2,3,4	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31,32,33	Symbols
D-260-1	Erosion And Siltation Controls - Silt Fence
D-704-25	Lane Closures On Urban Streets Layouts
D-748-1	Curb & Gutter And Valley Gutter
D-750-2	Sidewalk
D-750-3	Curb Ramp Retrofit Details
D-750-4	Curb Ramp Retrofit Transitional Area Details

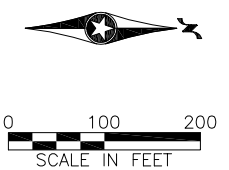
SPECIAL PROVISIONS

Number	Description
SSP 1	Temporary Erosion and Sediment Best Management Practices

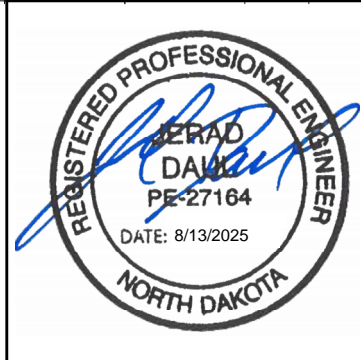
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 Construct Concrete Multi-Use Path
 ADA Curb Ramp Revisions



Scope of Work
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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NOTES

GENERAL REQUIREMENTS

1. SPECIFICATIONS: Follow NDDOT specifications from the 2025 edition of Standard Specifications for Road and Bridge Construction and 2025 West Fargo Specifications. West Fargo Specifications can be found at (<https://westfargond.gov/DocumentCenter/View/10240/2025-Construction-Specs-File>).
2. The drawings designate those existing items for removal, replacement, or improvement. If not designated for removal, replacement or improvement, all other existing items within the site to be protected. Construction activities shall be performed within the construction limit, right of way, easements or as directed in the plans.

Coordination

1. Work on the project will require coordination with City Departments. Contact Information is:
 - a. Street Foreman: Dan Birnbaum – 701-809-5889 or dan.birnbaum@westfargond.gov.
 - b. Street Crew Chief: Cory Ramsey – 701-238-3439 or cory.ramsey@westfargond.gov.
 - c. City Forester: Chad Zander – 701-515-5400 or chad.zander@westfargond.gov.
 - d. City's Construction Project Manager: Jim Mohr – 701-970-9405 or james.mohr@westfargond.gov.
2. Notable dates that may impact traffic in the project vicinity:
 - a. City of West Fargo Cleanup Week: May 4th – 8th, 2026.
 - b. Westside Elementary last day of school: May 21st, 2026.
 - c. Red River Valley Fair: July 3rd-12th, 2026
 - d. Westside Elementary first day of school: August 27th, 2026

Exterior improvements

1. Curb and Gutter – Sawcut Existing: Sawcut full depth at extents of segments of existing curb and gutter to be removed.
2. Curb and Gutter – Connect To Existing: Shall include drilling, dowels/rebar, epoxy bond agent, expansion joint material, or any other miscellaneous items necessary to properly make the connection. Use (3) #4 x 12" bars.

GENERAL NOTES

- 100-P01: NOISE ORDINANCE: A noise ordinance is in effect within the City of West Fargo between the hours of 10 pm and 6:30 am. No work will be performed during these hours unless otherwise approved by the Engineer. Submit a request to the Engineer a minimum of 48 hours in advance.
- 100-P02: SIGN SALVAGE: Salvaged signs and sign posts shall be dropped off at the Public Works Boneyard at 810 12th Avenue Northwest. Coordinate with City's Construction Project Manager: Jim Mohr – 701-970-9405.
- 100-P03: WORKING HOURS: Monday through Friday from 7:00AM to 7:00PM, unless otherwise noted. Saturdays, Sundays, and holidays by permission only. Submit request to Engineer for approval a minimum of 48 hours in advance.

- 100-P04: CONTRACTOR PARKING / STAGING AREA RESTRICTIONS: Parking of personal vehicles, construction equipment, storage of construction materials, or work areas on private property is prohibited without written permission by the property owner. Staging of construction materials, storing personal vehicles or construction equipment in the City's Right-of-Way outside of the construction work zone is prohibited. Possible staging and storage area owners to secure arrangements with include:
- Westside Elementary School (945 7th Ave. W.): jgoebel@west-fargo.k12.nd.us or 701-499-1019
 - West Fargo Soccer Complex (1010 13th Ave. W.): micah@wfparks.org or 701-551-7132
 - Cedars West Apartments (925 9th Ave. W.): cedarswest@hegenes.com or 701-282-6357
 - Westbrook Apartment Complex (908 9th St. W.): customerservice@asarents.com or 701-280-2839
 - West Fargo Sanitation Building (117 8th St. W.): logan.jacobson@westfargond.gov or 701-515-5412
 - Living Hope Baptist Church (1245 8th St. W.): livinghope1990@gmail.com or 701-353-8677

100-P05 STATIONING: The stationing used in the plans is based off (8th Street W Multi-Use Path) alignment, unless stated otherwise.

100-P06 SITE PROTECTION: The drawings designate those existing items for removal, replacement, or improvement. If not designated for removal, replacement, or improvement, all other existing items within the site to be protected.

105-P01 PAVEMENT SWEEPING: Sweep paved areas that were used by construction traffic before opening these areas to public traffic. Use a vacuum or pick-up type sweeper to perform this work.

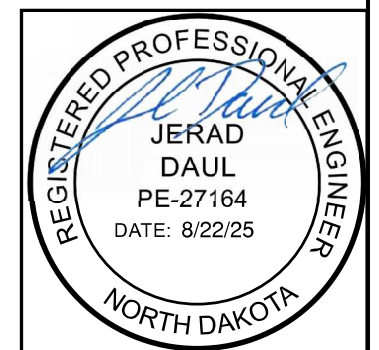
107-P01 HAUL ROADS: Contractor to use published truck routes. Any construction traffic damage to roads outside the construction area to be repaired by the contractor at their expense.

105-P01 UTILITIES: No utility relocations or adjustments are planned. All utilities on the project need to be protected and remain in existing location.

202-P01 REMOVAL OF PAVEMENT: Removal of pavement consists of removing existing concrete sidewalk pavement, bituminous shared use path, curb ramp pavement, and associated aggregated base material regardless of thickness. See Section 40 for locations and assumed existing depths.

Conversions:

- Bituminous path: 2 tons per cubic yard.
- Concrete pavement: 2 tons per cubic yard
- Aggregate Base: 1.875 tons per cubic yard



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202-P02: EXCAVATION AND MILLINGS SALVAGE: Owner will accept salvaged materials. If utilizing Owner for salvaged materials, coordinate with Brian Matzke (Director of Public Works Operations) – 701-515-5410 or brian.matzke@westfargond.gov. Locations are:
 -Asphalt millings: NE quadrant of 12th Ave. NW. and 14th St. NW.
 -Topsoil and subbase soils: SW quadrant of 8th Ave. NW. and 26th St. NW.

203-P01 TOPSOIL: Topsoil quantity is calculated on 6 inches of removal. Contractor to remove 6 inches of topsoil material from site. If less than 6 inches of topsoil are at site, Topsoil-Import will be used to bring area up to 6 inches of material.

203-010 SHRINKAGE: 25 percent additional volume is included for shrinkage in earth embankment

203-360 COMPACTION AND DENSITY CONTROL: Compact material as specified in Section 203.04 G.4, Compaction Control, Type C.

203-385 AVERAGE HAUL: No average haul has been computed for this project.

251-P01 SEEDING: Seed mixture to use:
 West Fargo Sunny Mix:

Species	Pounds Live Seed/Acre
Kentucky Bluegrass	120
Fine Lead Perennial Ryegrass	60
Creeping Red Fescue	20
	200

302-P01 AGGREGATE BASE COURSE CLASS 5: Aggregate Base Course CL 5 to be paid for at compacted, in-place CY volume. Salvage base course or crushed concrete may be used in lieu of Class 5 at all locations with approval from Engineer. Approval will require gradation test results to be submitted before using.

570-P01 CURING MATERIALS: Use the curing materials as indicated in accordance with the manufacturer’s recommendations. Materials must meet the minimum specification:

 Linseed oil based or poly-alpha-methylstyrene liquid curing compound, white pigmented conforming to the requirements of AASHTO M 148 Type 2, Class B.

570-P02 COLD WEATHER CONCRETE: Use cold weather concrete methods when temperatures are below freezing.
 Admixtures for concrete shall not contain added chlorides or other chemicals known to promote the corrosion of steel and will be subject to approval of the Engineer.

570-P03 QUANTITY: Pay quantity will be paid based on AutoCAD or surveyed data. No additional field measurements will be gathered to determine in place quantity

704-P01 TRAFFIC CONTROL INITIATION: Notify Engineer a minimum of 1 week prior to initiating any traffic control measures or changes to traffic control to allow time for notifications to the public.

708-P01 INLET PROTECTION SPECIAL: Place inlet protection into inlets. Inlet Protection Special to be Flexstorm Catch It by Inlet Pipe Protection Inc., Siltsack Type C by ACF Environmental, or approved Equal. Include all costs for furnishing, installing, maintaining (cleaning), and replacing damaged devices in the bid price for “Inlet Protection Special”. Keep all installed devices in place until the turf has been established. If the turf has not been established by November 1st, remove all installed devices in the street section that have potential to cause damage to snow removal equipment. Reinstall these devices in the spring as directed by the Engineer. No additional compensation will be provided as this work is considered normal maintenance.

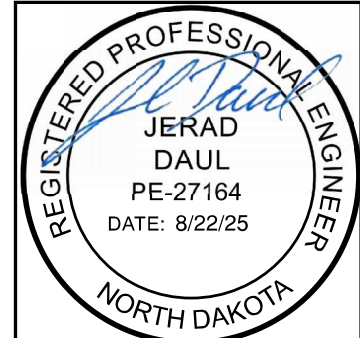
722-P01 ADJUSTING RINGS: Use Precast reinforced concrete adjusting rings installed per West Fargo Specifications sections 330130.86 – MANHOLE RIM ADJUSTMENT and 330561 – PRECAST CONCRETE STRUCTURES. In lieu of the use of an adhesive/sealant, an external mechanical frame-chimney seal may be used for a watertight installation.

 All cost to furnish and install adjusting rings to be incidental to installation or salvage and reuse of manholes.

748-P01 CURB & GUTTER: Construct curb and gutter in accordance with the Typical Details. Include all curb and gutter types shown in the plans, high back curb, mountable curb and gutter, and knockdown curb and gutter, in the price bid for “Curb & Gutter”. All curb and gutter to be tied to existing curb and gutter with (3) No.4 x 12” bars (non-deformed).

750-P02 SIDEWALK, CURB RAMPS, AND LANDINGS: Construct and compact the entire base section before paving the sidewalk.
 The concrete landings, as designated in Section 20 detail sheets and labeled “TS”, must be installed first prior to adjacent curb ramps and/or sidewalks allowing for a minimum of 24 hours of cure time.

750-P03 DETECTABLE WARNING PANELS: Install unpainted, cast-iron detectable warning panels.



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970-P01 REPLANT TREE: This work consists of removing and replanting existing trees located along 8th St W. Remove and replant the trees as shown in the Removals and Plan and Profile layouts of the plans to allow for the construction of the proposed sidewalk.

Remove the trees with a solid ball of earth around the roots. Provide a ball with a diameter not less than 10 times the diameter of the trunk of the tree measured 1ft above the surface of the ground. Provide a ball depth not less than 60% of its diameter for balls up to 48in diameter. For balls over 48in diameter provide a ball with sufficient depth to maintain a solid structure and to encompass all the feeding roots under the ball area. Use a mechanical tree spade to replant the trees.

Prior to placing topsoil within the tree pits rototill the bottom of the tree pit to a minimum 6in depth within. Break up large clumps, remove any extraneous material, and re-shape the subgrade prior to placing topsoil.

Water the root ball of the tree thoroughly prior to removal to keep the root ball intact and reduce as much soil loss as possible during transports. Maintain the ball as a solid unit when moving the tree. Keep the ball moist at all times during transplanting operations.

Take care to prevent injury to the tree during the transplanting operation. Protect all parts of the tree. Tie branches out of the way of possible injury.

970-P02 TREE PLANTING REQUIREMENTS:

- Notify the Engineer for an inspection of all trees prior to installation. Acceptable trees will be approved and marked or flagged for installation.
- Properly care for all trees from the time of planting until final acceptance.
- Proper care of trees consists of supplemental watering, weeding, pruning, spraying, tightening of braces and guys, retying wrapping, re-mulching and other work as necessary to keep plants in a neat appearance and in a healthy growing condition.
- Perform complete watering at 5 to 7-day intervals which may be adjusted when weather conditions and soil moisture permit, until final acceptance. Additional watering may be ordered by the Engineer at any time prior to final acceptance when soil conditions require such watering. Provide a 20-gallon slow-release supplemental water bag for each deciduous tree planted which is incidental to the cost of the unit bid price for each tree. Supplemental water bags will become the property of City of West Fargo following acceptance of plant material.
- Planting Soil Mixture for Trees
 - Remove topsoil and subsoil excavated in each proposed planting hole.
 - Backfill all tree pits with native soil excavated from the tree pit.
- The Contractor will replace all plants that die or show evidence of dying, in the opinion of the Engineer, prior to final acceptance at the Contractor's expense at the earliest appropriate planting time after this condition becomes apparent.

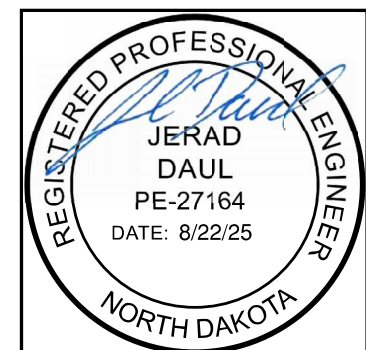
- The City of West Fargo will remove and dispose of all bracing and guying materials.
- Do not install trees when weather forecasts indicate ambient temperatures may drop below 35° F or rise above 90° F within 24 hours after planting. Do not install trees when wind velocity exceeds 30 mph.
- Trees must be planted during the date ranges below:
 - Spring: May 1 – June 15
 - Fall: September 1 – October 15
- Tree bid items:
 - Trees are paid for individually, per "each".
 - Incidental items: plant care, maintenance, warranty, watering, supplemental water bags, wood mulch, tree guy anchoring systems.
- Requests for plant substitutions must be approved prior to submitting a bid. Request all substitutions no later than one (1) week prior to bid opening to clarify with all prospective bidders in an addendum to the contract documents.

Include all costs for labor, equipment, materials necessary to install the trees in the price bid for tree pay item.

970-P03 FINAL ACCEPTANCE: Upon completion of the contract, the Engineer and City of West Fargo Forester will inspect the trees for acceptability.

Trees will be considered dead when the main leader has died back, or 25% of the crown is dead. Immediately remove designated plant material; replace immediately or as soon as possible in accordance with the planting dates and weather conditions. Perform maintenance prior to inspection. Any items of maintenance that have not been performed may make the tree unacceptable.

The Engineer will inform the Contractor of any establishment procedures that have not been performed. The Engineer will provide a letter of final acceptance upon completion of any corrections notifying the Contractor of completion of the project. The City of West Fargo will take responsibility for watering trees after final acceptance.



Estimated Quantities

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SPEC	CODE	ITEM DESCRIPTION	UNIT	Mainline: Funding A	TOTAL
103	0100	CONTRACT BOND	L SUM	1	1
201	0330	CLEARING & GRUBBING	L SUM	1	1
201	0370	REMOVAL OF TREES 10IN	EA	13	13
202	0130	REMOVAL OF CURB & GUTTER	LF	350	350
202	0136	REMOVAL OF PAVEMENT	TON	1237	1237
203	0103	COMMON EXCAVATION-TYPE C	CY	12	12
203	0109	TOPSOIL	CY	366	366
203	0140	BORROW-EXCAVATION	CY	114	114
251	0300	SEEDING CLASS III	ACRE	1.05	1.05
251	2000	TEMPORARY COVER CROP	ACRE	1.05	1.05
253	0201	HYDRAULIC MULCH	ACRE	2.1	2.1
260	0300	SILT FENCE	LF	268	268
302	0121	AGGREGATE BASE COURSE CL 5	CY	223	223
702	0100	MOBILIZATION	L SUM	1	1
704	1000	TRAFFIC CONTROL SIGNS	UNIT	580	580
704	1054	SIDEWALK BARRICADE	EA	17	17
704	1060	DELINEATOR DRUMS	EA	76	76
708	1540	INLET PROTECTION-SPECIAL	EA	12	12
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	12	12
722	6160	ADJUST INLET	EA	7	7
748	0140	CURB & GUTTER-TYPE I	LF	350	350
750	0115	SIDEWALK CONCRETE 4IN	SY	62	62
750	0125	SIDEWALK CONCRETE 5IN	SY	2872	2872
750	0140	SIDEWALK CONCRETE 6IN	SY	288	288
750	2115	DETECTABLE WARNING PANELS	SF	285	285
754	0592	RESET SIGN PANEL	EA	14	14
754	0593	RESET SIGN SUPPORT	EA	14	14
970	1025	REPLANT TREES	EA	1	1

Earthwork

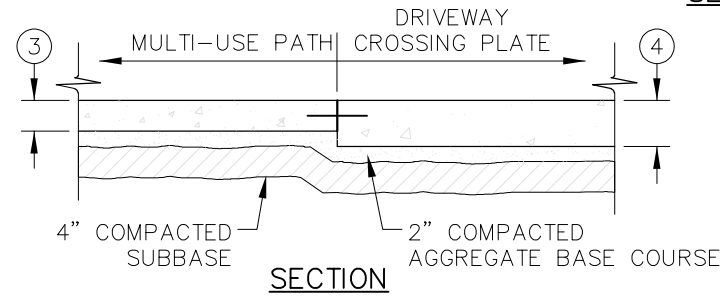
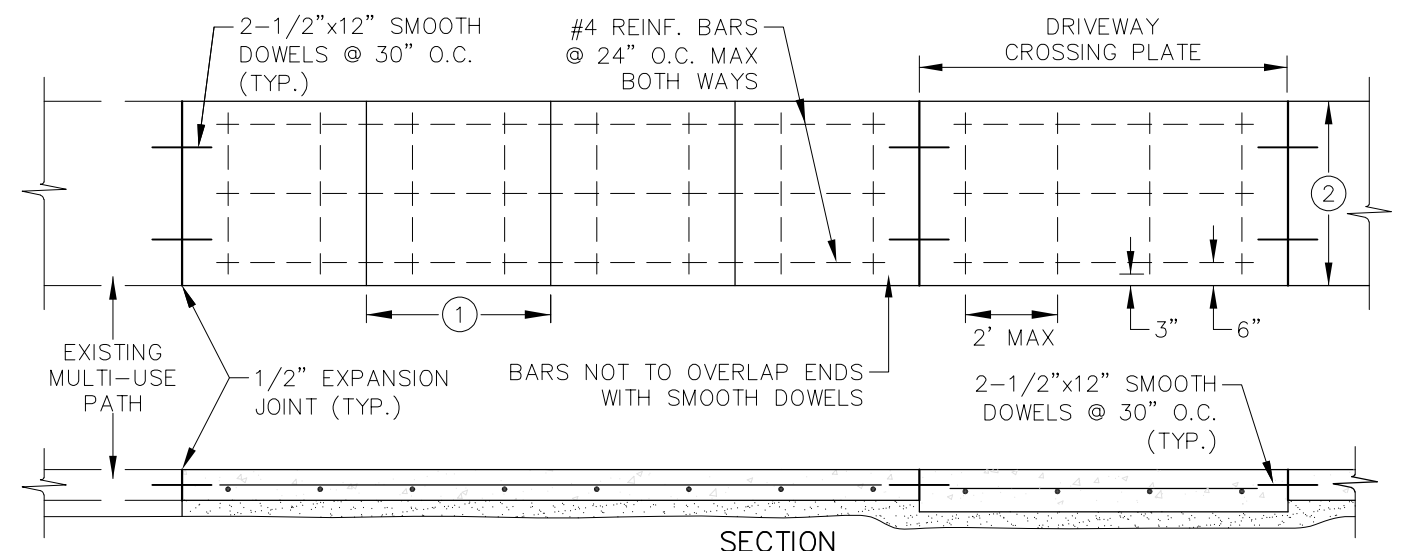
Earthwork Summary			
Roadway	Common Excavation - Type C CY (Pay Item)	Embankment (1) CY	Borrow - Excavation CY (Pay Item)
	A	B	C = A - B
8th Street W - Multi-Use Path	12	69	-57
8th Street W - Multi-Use Path - Removal	0	57	-57
TOTAL	12	126	-114

(1) 25% additional volume is included for shrinkage in earth embankment

Topsoil Summary			
Roadway	Topsoil Excavation CY	Topsoil Required CY	Topsoil (Pay Item) CY
	A	B	A
8th Street W - Multi-Use Path	386	107	386
8th Street W - Multi-Use Path - Removal	0	273	
TOTAL	386	380	386

Quantities
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



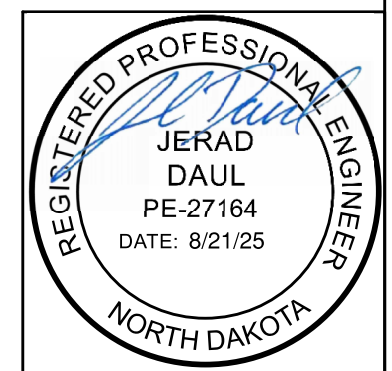


- NOTATIONS:
- ① JOINTS TO BE SPACED AT 5'.
 - ② AS SHOWN ON PLANS.
 - ③ 5" THICK FOR MULTI-USE PATH.
 - ④ SAME AS ADJACENT DRIVEWAY.

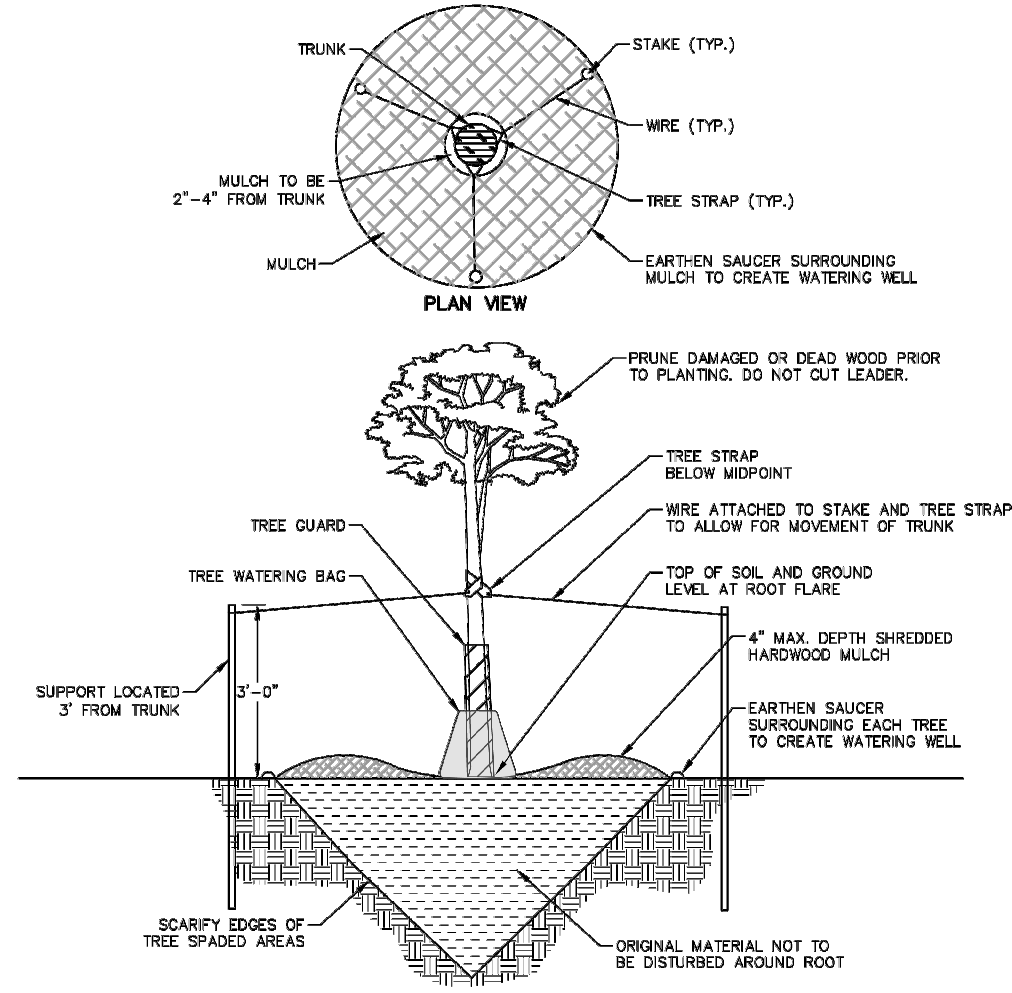
- NOTES:
- 1. CROSS SLOPE SHALL BE AS SHOWN ON PLANS.
 - 2. ALL JOINTS SHALL BE SAWED.
 - 3. CHAIRS OR APPROVED SUPPORT DEVICES SHALL BE USED TO SUPPORT REBAR AT MID-DEPTH.
 - 4. CONTRACTOR STAMP TO BE PLACED AT EXPANSION JOINTS.
 - 5. EXPANSION JOINTS SHALL BE PLACED AT PROPERTY LINES WHERE POSSIBLE.
 - 6. SAW CENTERLINE JOINT ON 10'-0" WIDTH OR LARGER PATHS. IT SHALL BE SPLIT WIDTH AND ON CURVES FOLLOW THOSE CURVES, I.E. NO STRAIGHT LINE SEGMENTS.

CONCRETE MULTI-USE PATH

NO SCALE SIDEWALK & DRIVEWAY 01.14.22



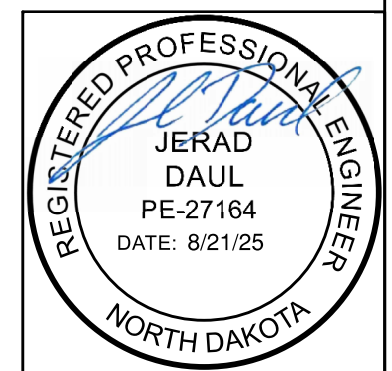
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TREE RESET-SPADE
NO SCALE PLANTING 07.18.18

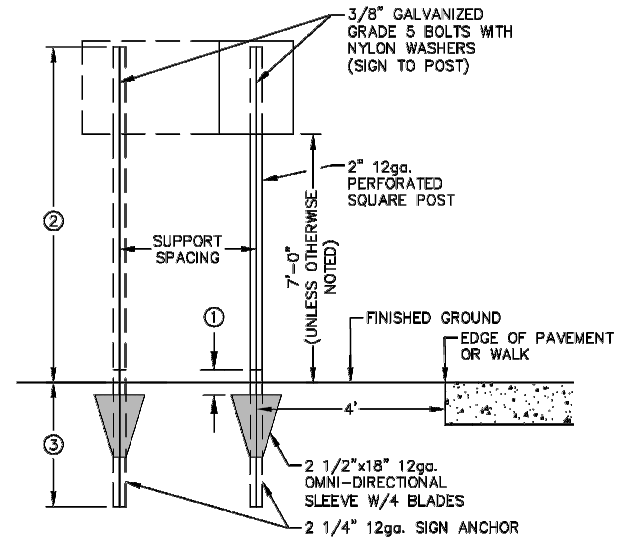
TREE RESET - SPADE

SECTION:	PLANTING
DETAIL NO.	2
REVISION:	3
APPROVED BY:	DTS
DATE:	07.18.18



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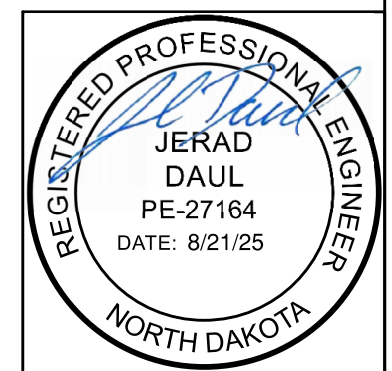


- ① POST AND ANCHOR OVERLAP INSIDE OF OMNI-DIRECTIONAL SLEEVE SHALL BE A MINIMUM OF 6"..
- ② POST.
- ③ 4' ANCHOR.
- ④ REFER TO NDDOT STANDARD DRAWING D-754-24 FOR SIGN POST MOUNTING DETAILS ON PERFORATED TUBE ANCHOR AND SLEEVE.
- ⑤ REFER TO NDDOT STANDARD DRAWING D-754-24 FOR SURFACE MOUNT BASE DETAIL. USE WHERE APPLICABLE (i.e. MEDIANS).
- ⑥ STANDARD ROADWAY SIGNS: 84".
ACCESSIBLE PARKING: 60" MIN. - 66" MAX.
MULTI-USE PATH: 48" MIN. - 60" MAX.
OTHERS: 48" MIN. - 84" MAX.

SIGN PLACEMENT - PAVEMENT & WALK
NO SCALE SIGNAGE 03.15.23

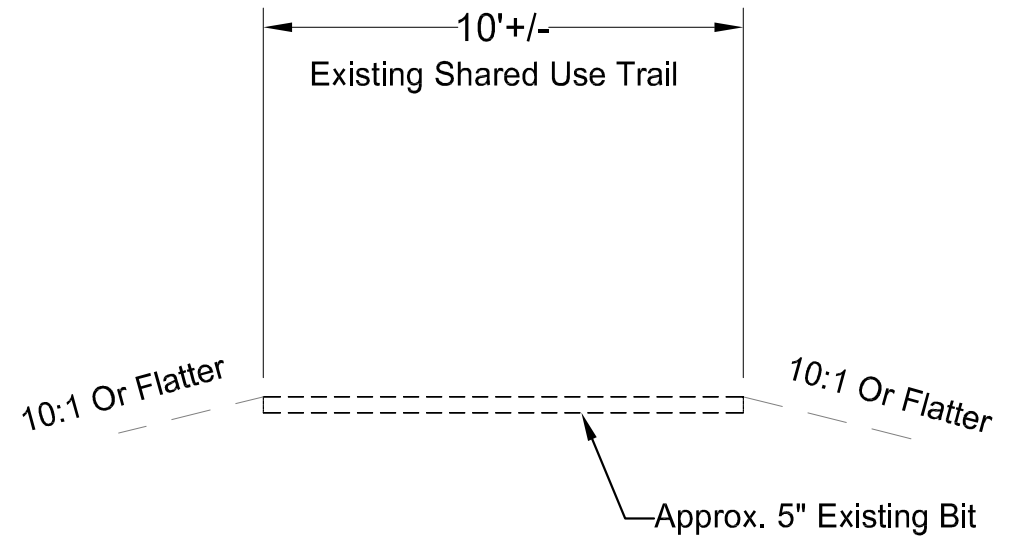
SIGN PLACEMENT – PAVEMENT & WALK

SECTION:	SIGNAGE
DETAIL NO.	4
REVISION:	2
APPROVED BY:	JFW
DATE:	03.15.23

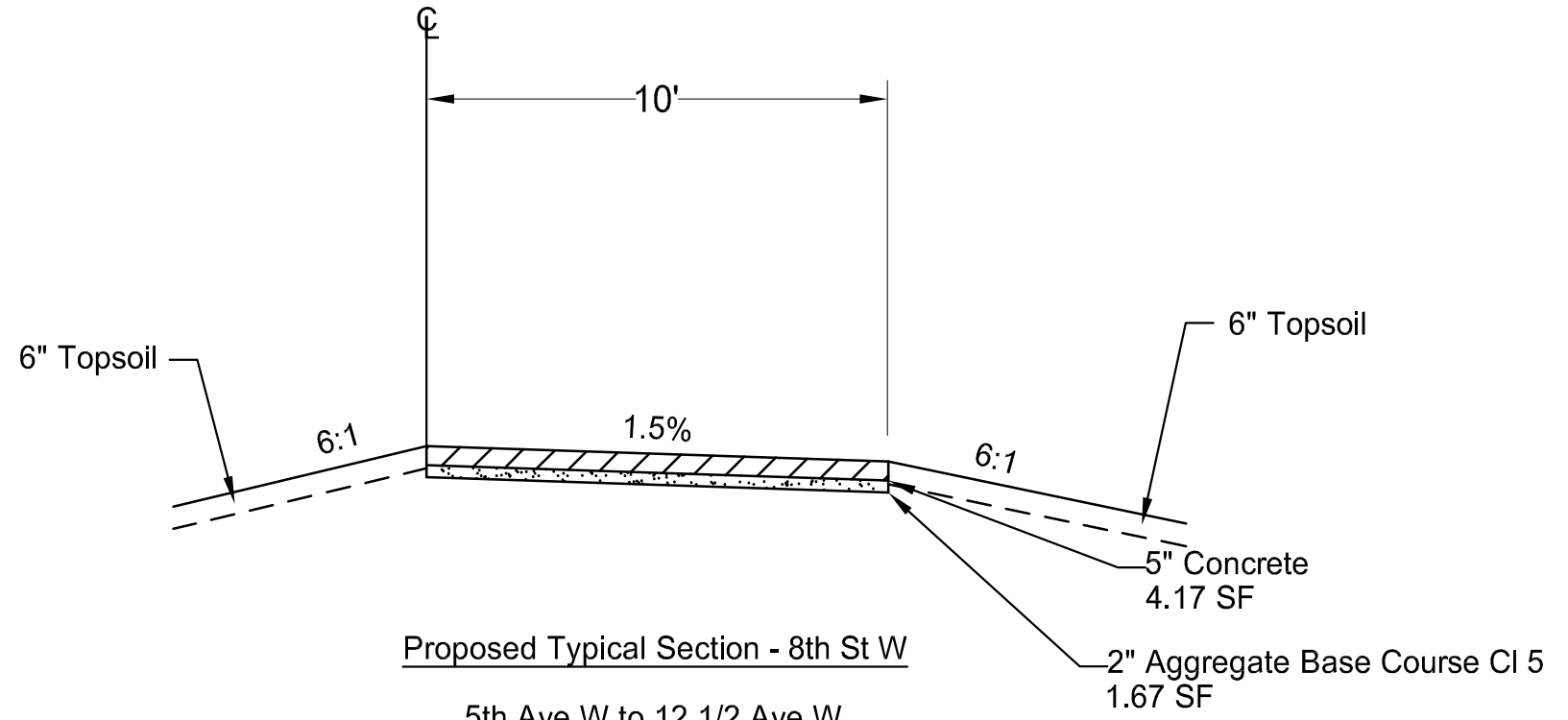


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Existing Typical Section - 8th St W
5th Ave W to 12 1/2 Ave W
Sta 11+32.4 to Sta 39+93.7

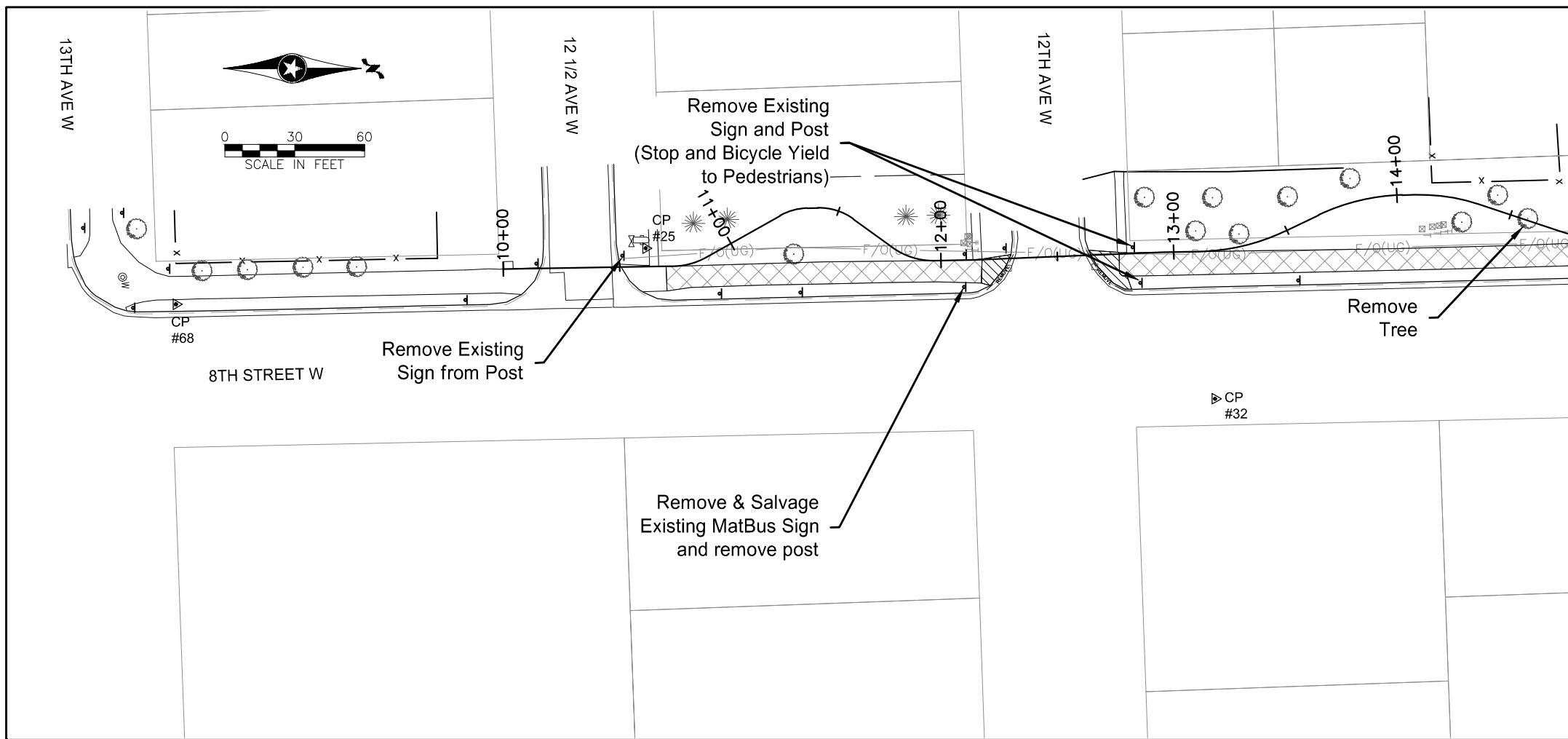


Proposed Typical Section - 8th St W
5th Ave W to 12 1/2 Ave W
Sta 11+32.4 to Sta 39+93.7

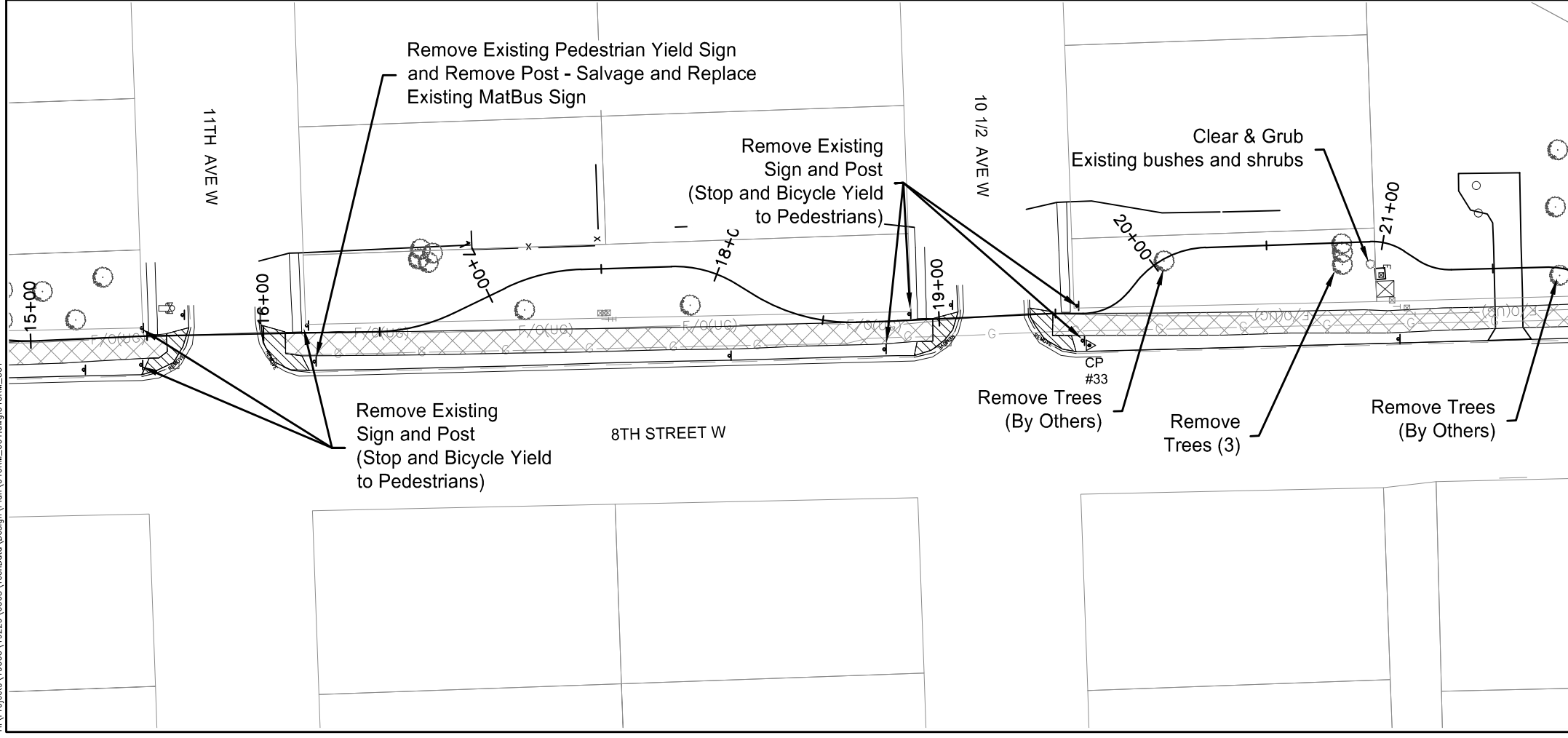
Typical Sections
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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SPEC	CODE	BID ITEM	QTY	UNIT
201	0330	CLEARING & GRUBBING	1	L SUM
Sta 10+00 - Sta 21+87				
201	0370	REMOVAL OF TREES 10IN	4	EA
Sta 10+00 - Sta 21+87				
202	0130	REMOVAL OF CURB & GUTTER		
Sta 12+20 - Sta 12+32			18	LF
Sta 12+62 - Sta 12+82			28	LF
Sta 15+47 - Sta 15+70			32	LF
Sta 15+97 - Sta 16+20			34	LF
Sta 18+87 - Sta 19+10			33	LF
Sta 19+37 - Sta 19+60			33	LF
202	0136	REMOVAL OF PAVEMENT		
Sta 10+00 - Sta 21+87				
5IN HMA			270	TONS
2IN Aggregate Base			102	TONS
Sta 10+00 - Sta 21+87				
6IN Sidewalk Concrete			34	TONS
2IN Aggregate Base			13	TONS



LEGEND

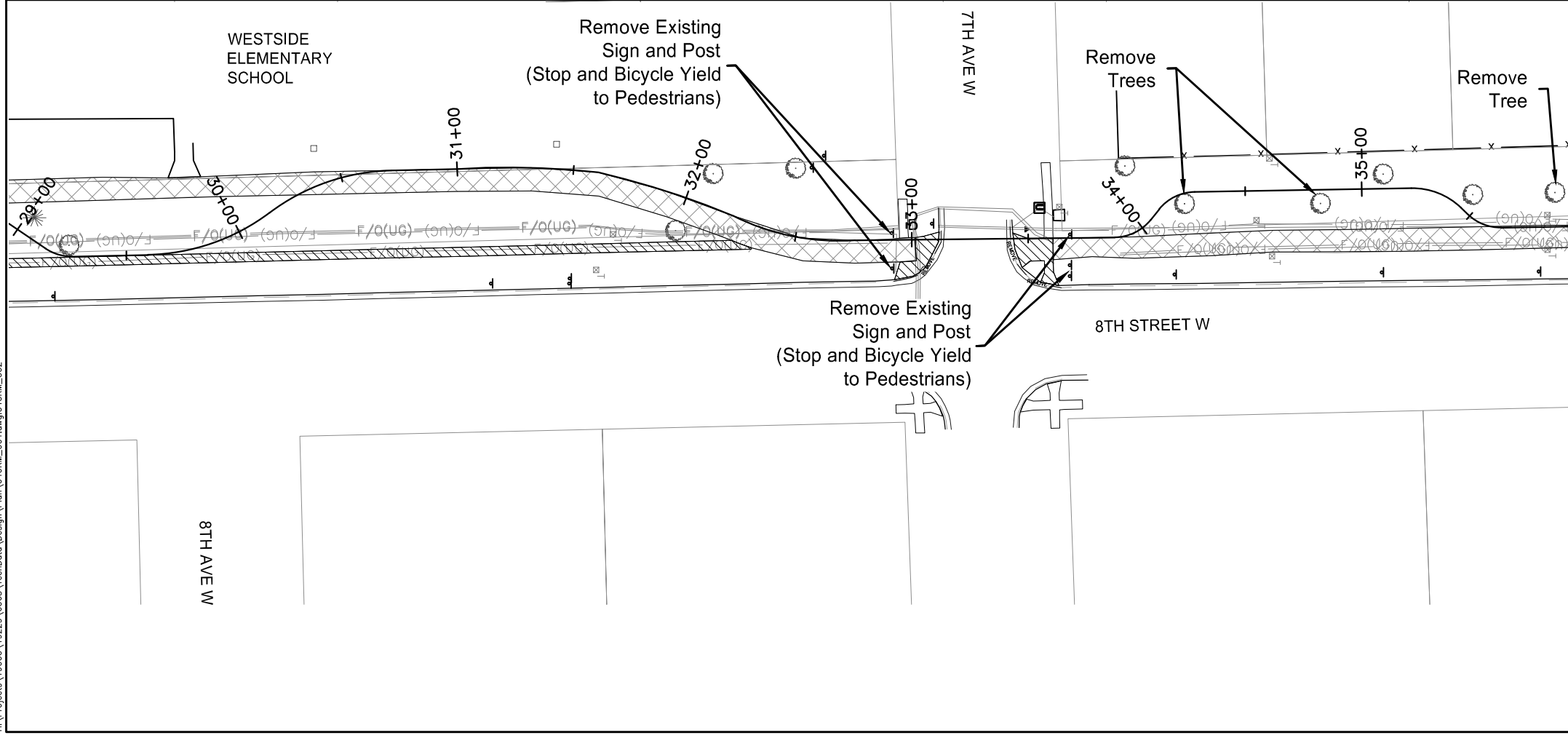
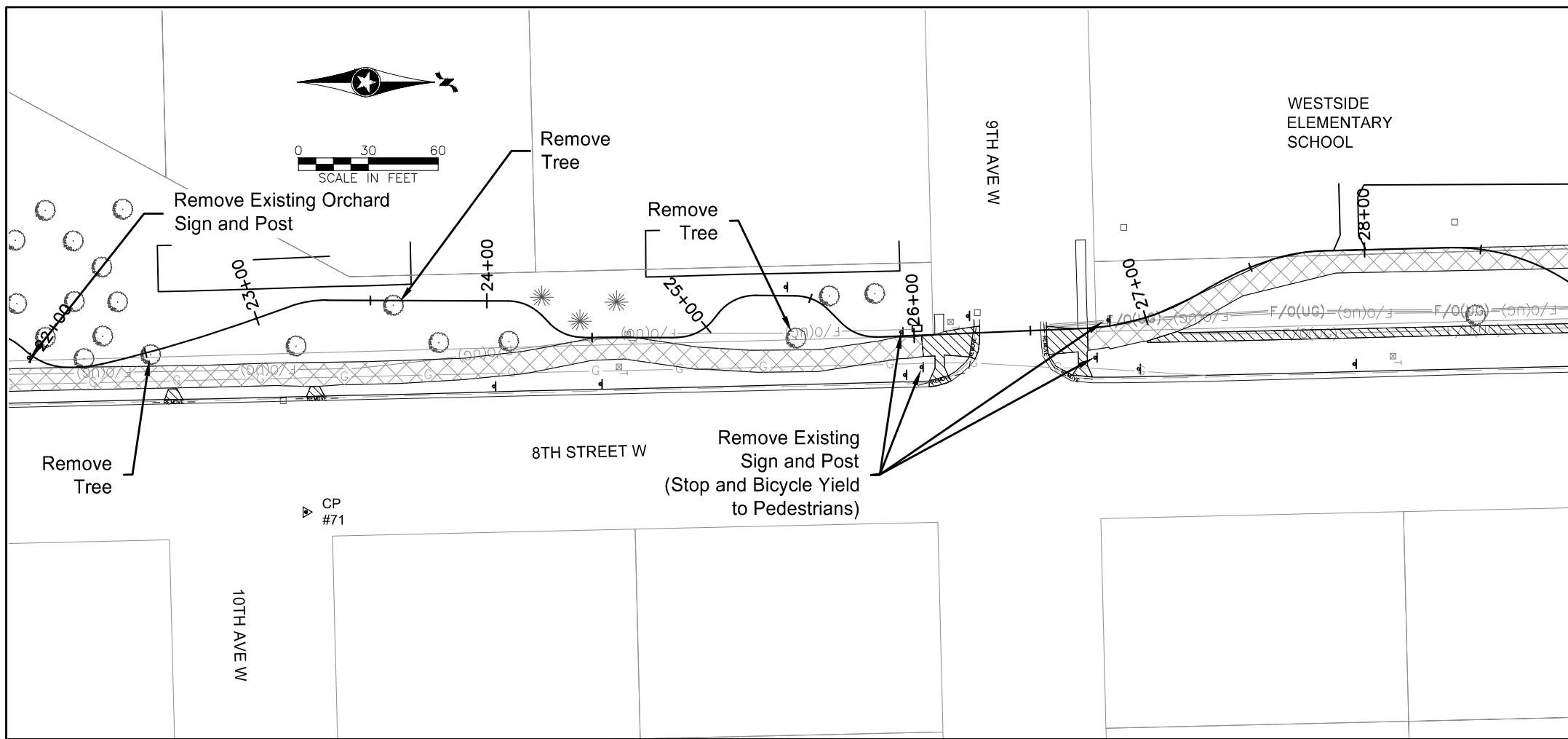
⊥	Sign	←	Anchor	—	Fn
⊙	WMV	⊕	TV Vault	—	Unknown Gas Line
⊕	HYD	⊕	Tel Ped	—F/O(UG)—	Consolidated
□	CB	⊗	EL	—F/O(UG)—	Midco
⊙	Lg Tree	⊙	PP	▲	CP #
⊙	Sm Tree	⊕	Unknown MH		
⊙	Bush	○	San MH		

	Removal of Pavement (5IN HMA and 2IN Aggregate Base)
	Removal of Pavement (6IN Sidewalk Concrete and 2IN Aggregate Base)
— REMOVE —	Removal of Curb & Gutter
- - - - -	Saw Concrete (Incidental)

Removals
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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SPEC CODE	BID ITEM	QTY	UNIT
201 0370	REMOVAL OF TREES 10IN Sta 21+87 - Sta 35+97	6	EA
202 0130	REMOVAL OF CURB & GUTTER Sta 22+52 - Sta 22+60 Sta 23+09 - Sta 23+24 Sta 26+05 - Sta 26+27 Sta 26+55 - Sta 26+75 Sta 29+51 - Sta 29+59 Sta 32+93 - Sta 33+14 Sta 33+41 - Sta 33+64	8 8 35 36 8 33 36	LF LF LF LF LF LF LF
202 0136	REMOVAL OF PAVEMENT Sta 21+87 - Sta 35+97 5IN HMA 2IN Aggregate Base 6IN Sidewalk Concrete 2IN Aggregate Base	368 139 112 37	TONS TONS TONS TONS

LEGEND

↑	Sign	←	Anchor	—	Fn
⊙	WMV	⊠	TV Vault	—	Unknown Gas Line
↑	HYD	⊙	Tel Ped	—F/O(UG)—	Consolidated
□	CB	⊠	EL	—F/O(UG)—	Midco
⊙	Lg Tree	⊙	PP	▲	CP #
⊙	Sm Tree	⊠	Unknown MH		
⊙	Bush	○	San MH		

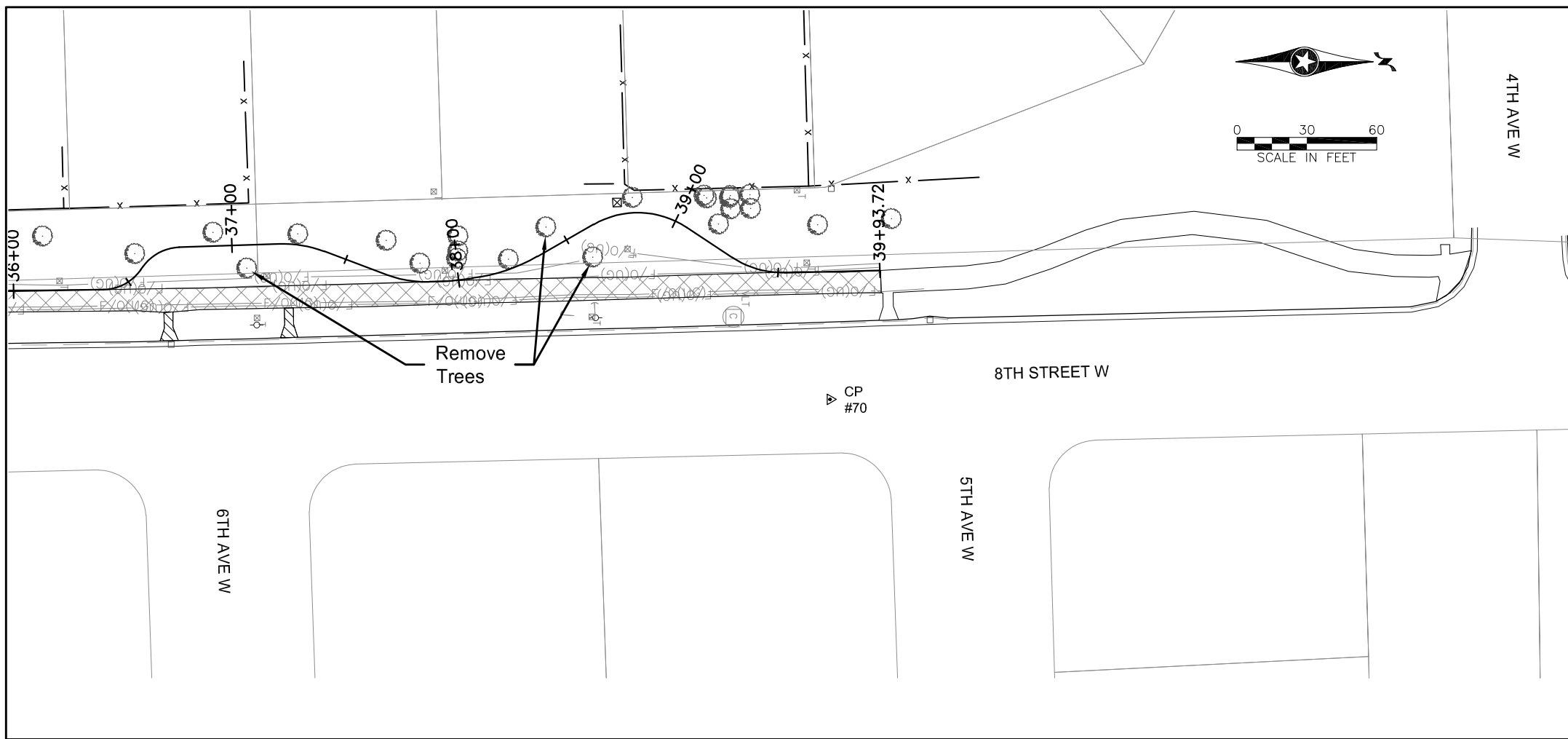
	Removal of Pavement (5IN HMA and 2IN Aggregate Base)
	Removal of Pavement (6IN Sidewalk Concrete and 2IN Aggregate Base)
— REMOVE —	Removal of Curb & Gutter
---	Saw ConCRETE (Incidental)

Removals
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	40	3



SPEC	CODE	BID ITEM	QTY	UNIT
201	0370	REMOVAL OF TREES 10IN Sta 35+97 - Sta 39+94	3	EA
202	0130	REMOVAL OF CURB & GUTTER Sta 36+47 - Sta 36+51	8	LF
202	0136	REMOVAL OF PAVEMENT Sta 35+97 - Sta 39+94		
		5IN HMA	112	TONS
		2IN Aggregate Base Sta 35+97 - Sta 39+94	42	TONS
		6IN Sidewalk Concrete	6	TONS
		2IN Aggregate Base	2	TONS

LEGEND

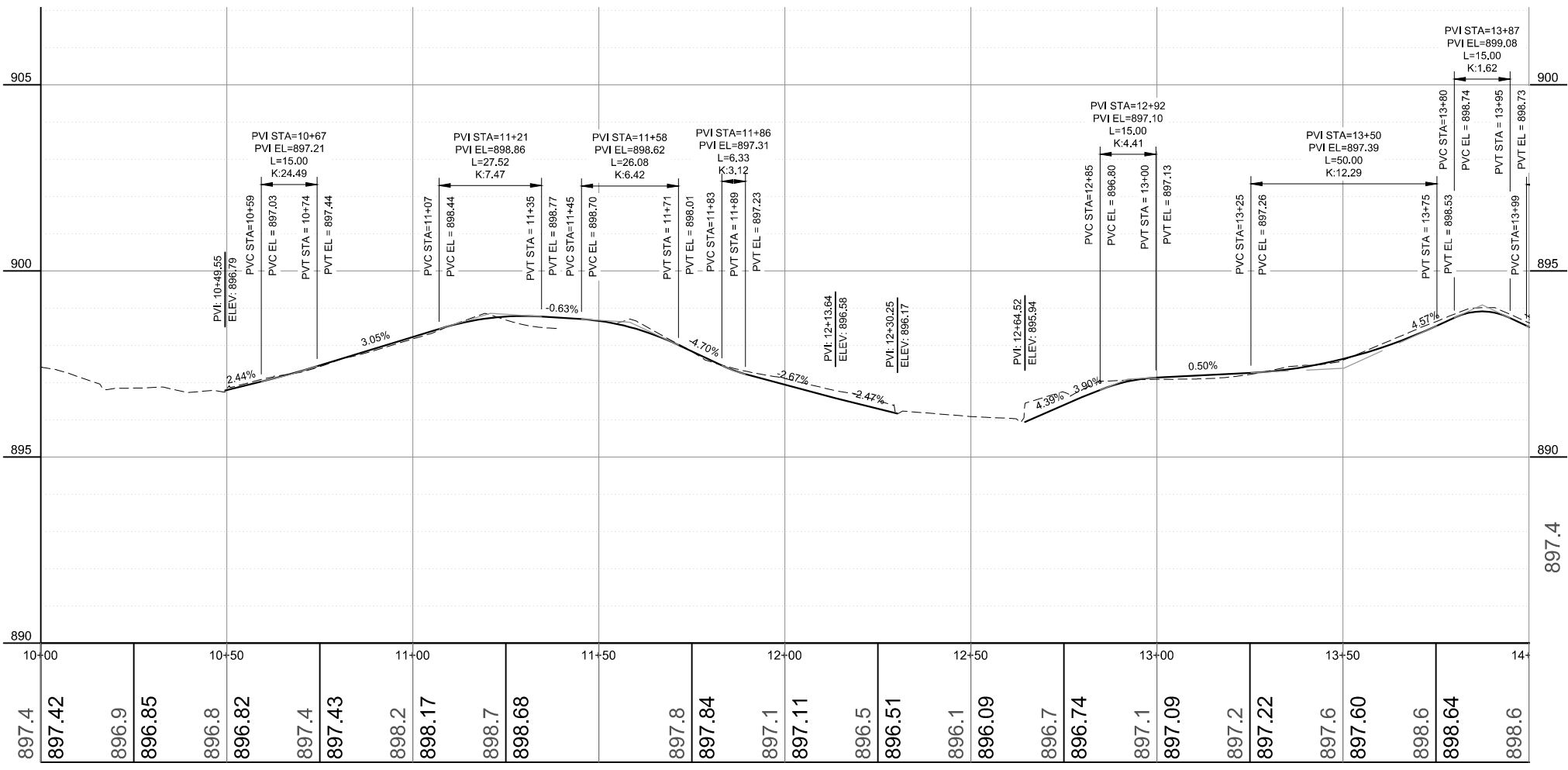
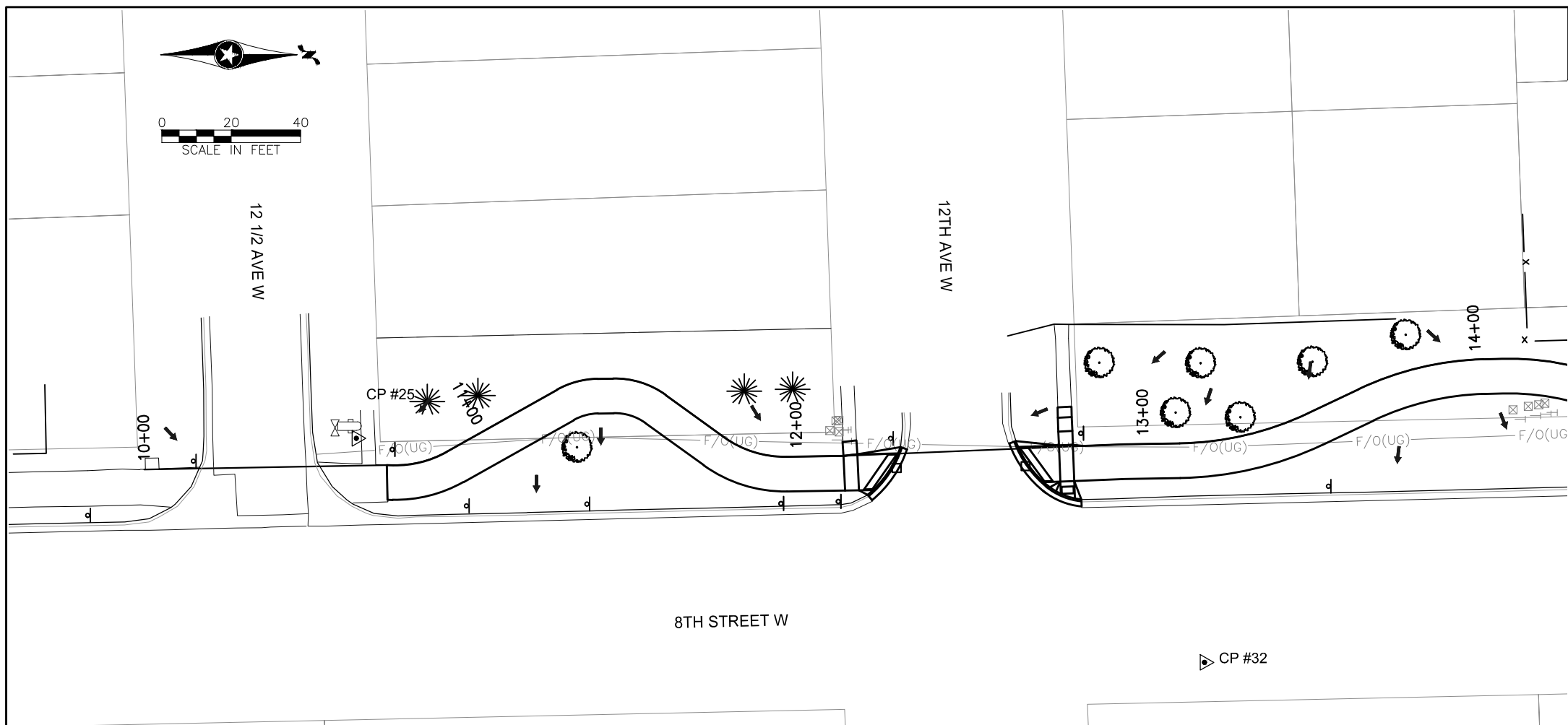
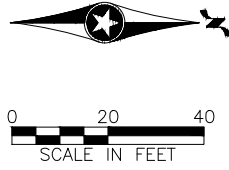
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↑	HYD	⊕	Tel Ped	—F/O(UG)—	Consolidated
□	CB	⊕	EL	—F/O(UG)—	Midco
⊙	Lg Tree	⊙	PP	▲	CP #
⊙	Sm Tree	⊕	Unknown MH		
⊙	Bush	○	San MH		

	Removal of Pavement (5IN HMA and 2IN Aggregate Base)
	Removal of Pavement (6IN Sidewalk Concrete and 2IN Aggregate Base)
— REMOVE —	Removal of Curb & Gutter
- - - - -	Saw Concrete (Incidental)

Removals
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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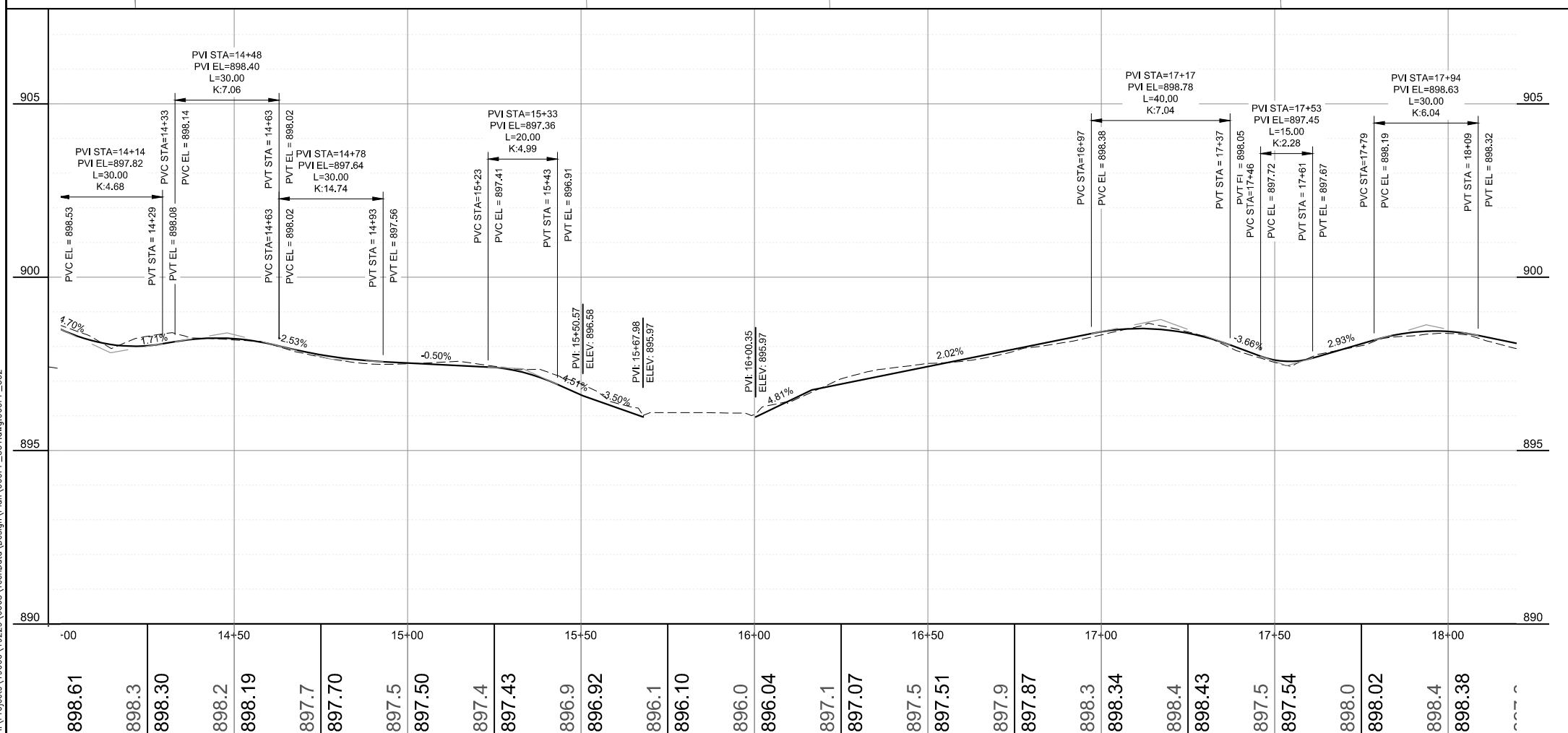
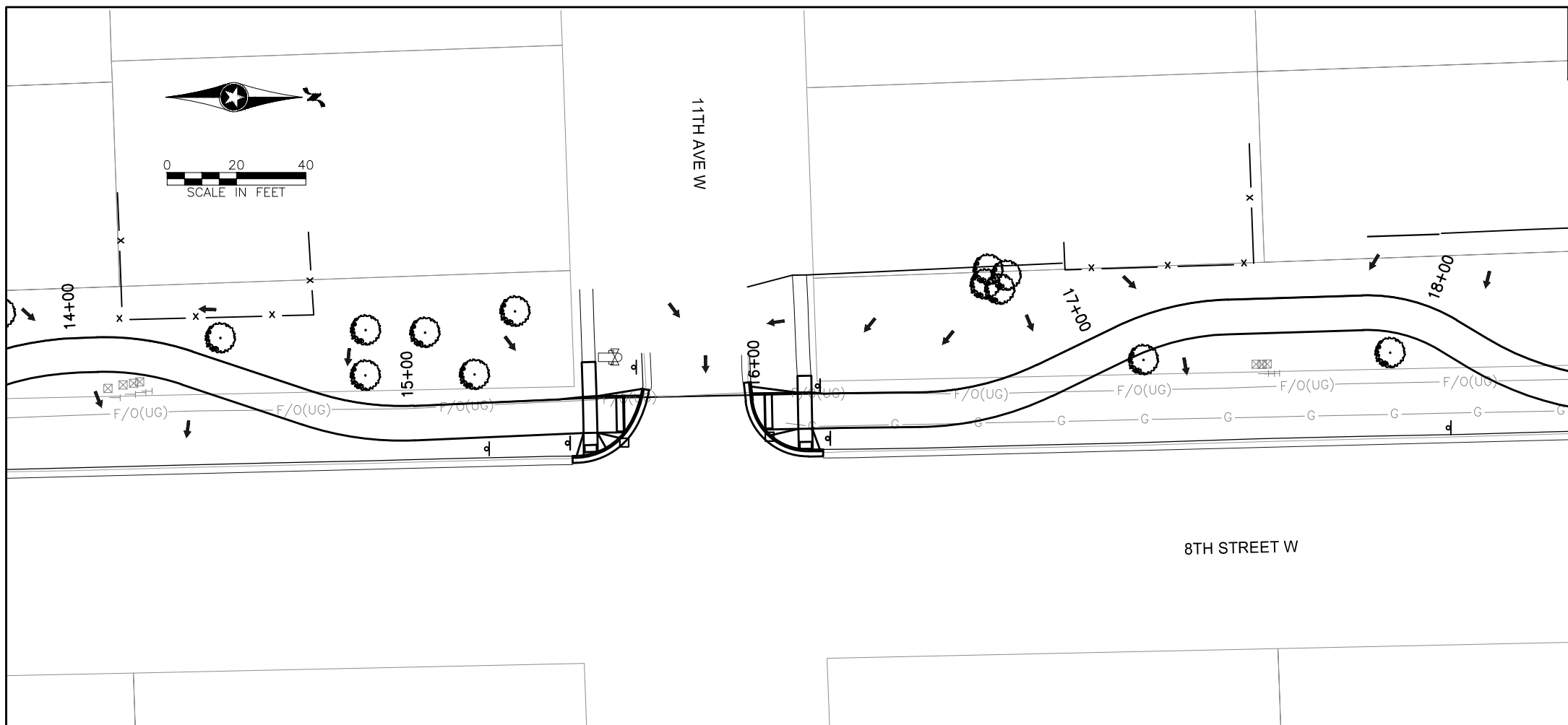
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← Surface Water Flow

Plan & Profile
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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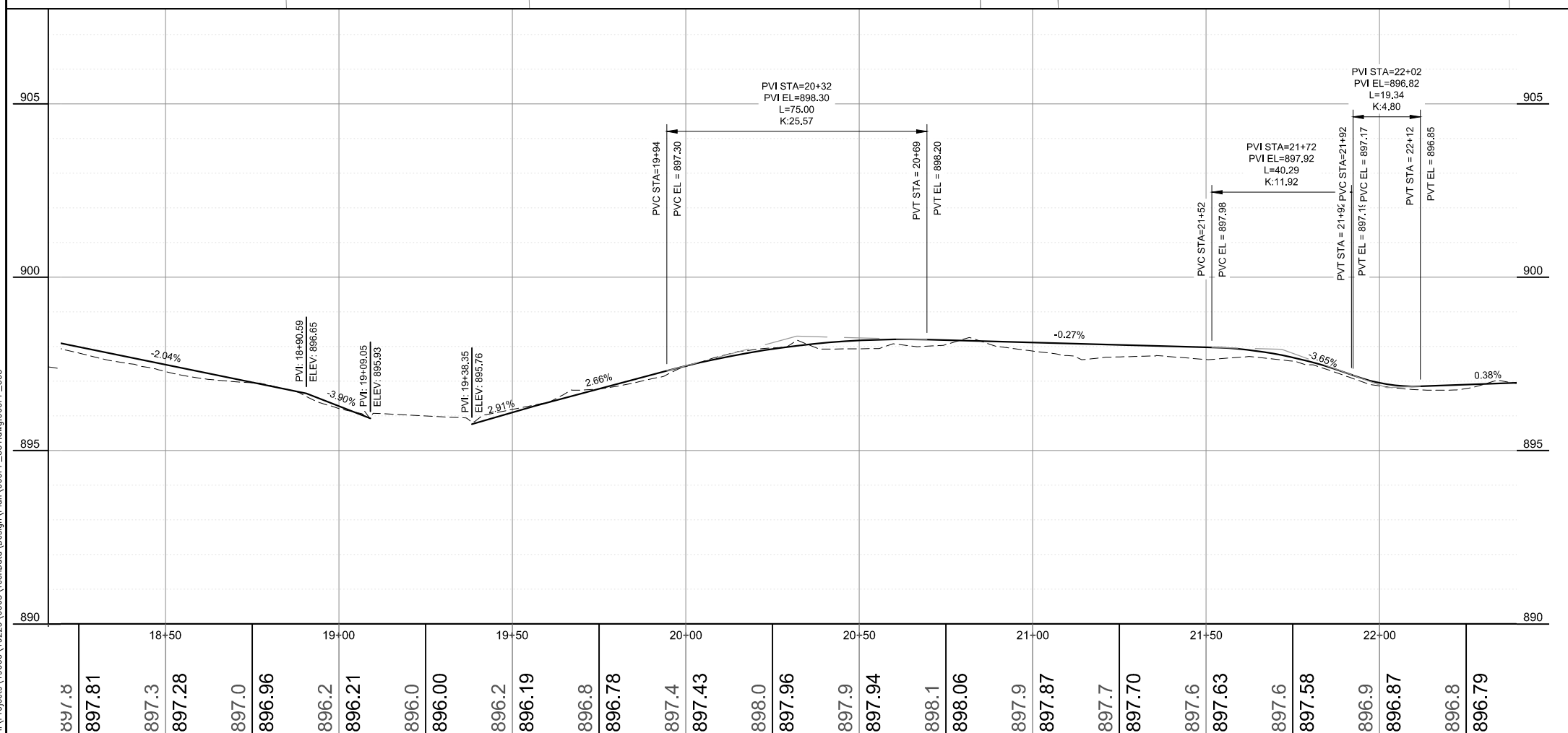
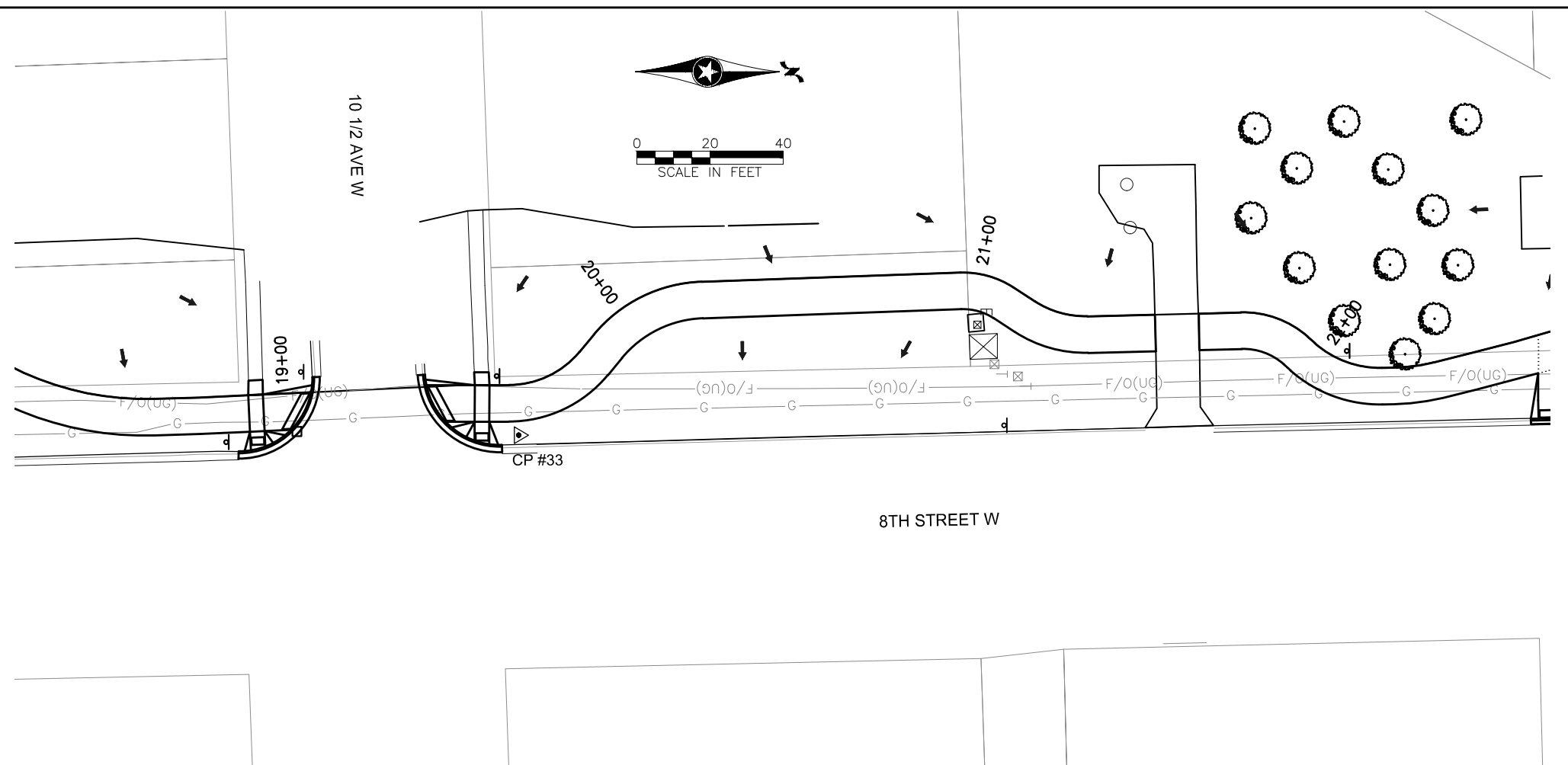
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← Surface Water Flow

Plan & Profile
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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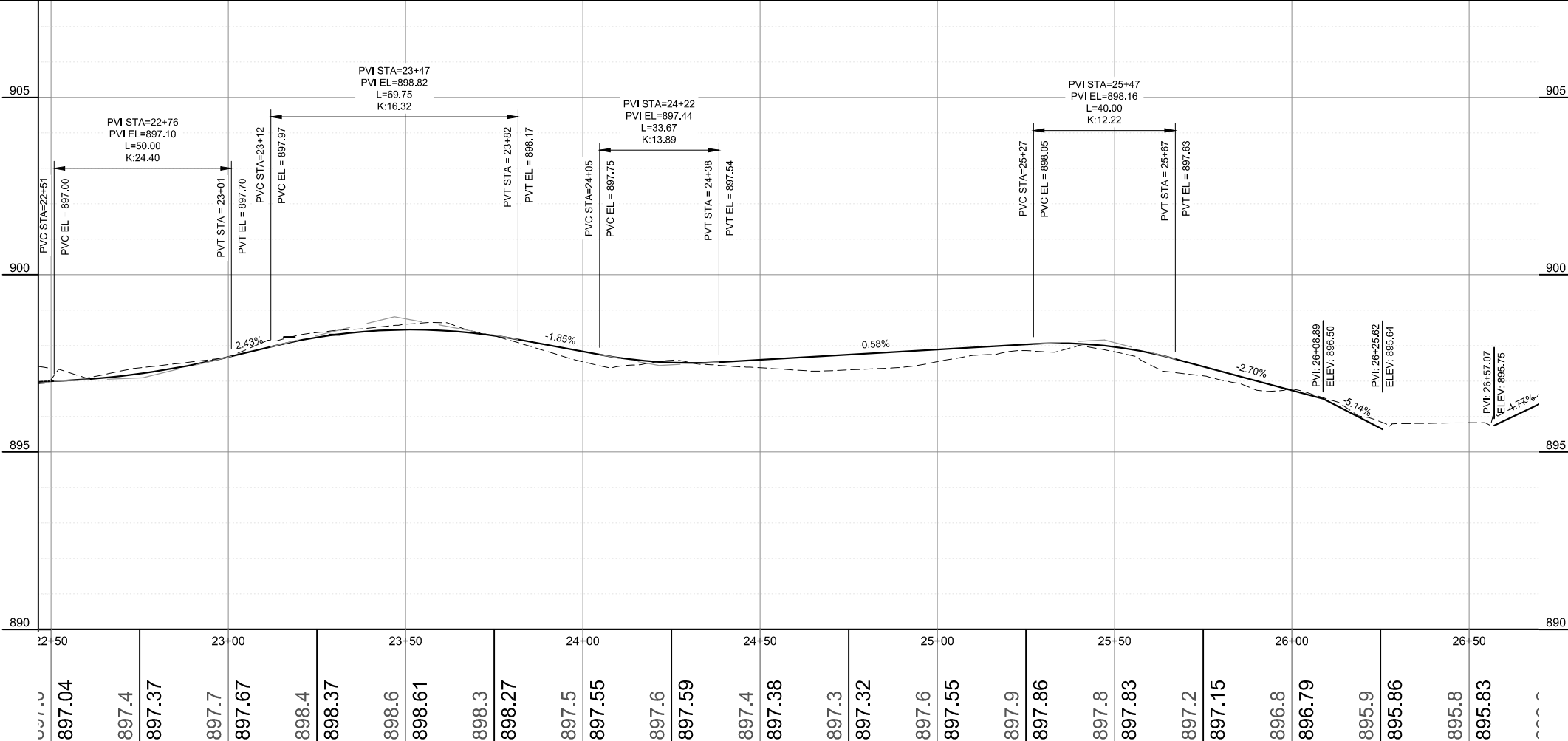
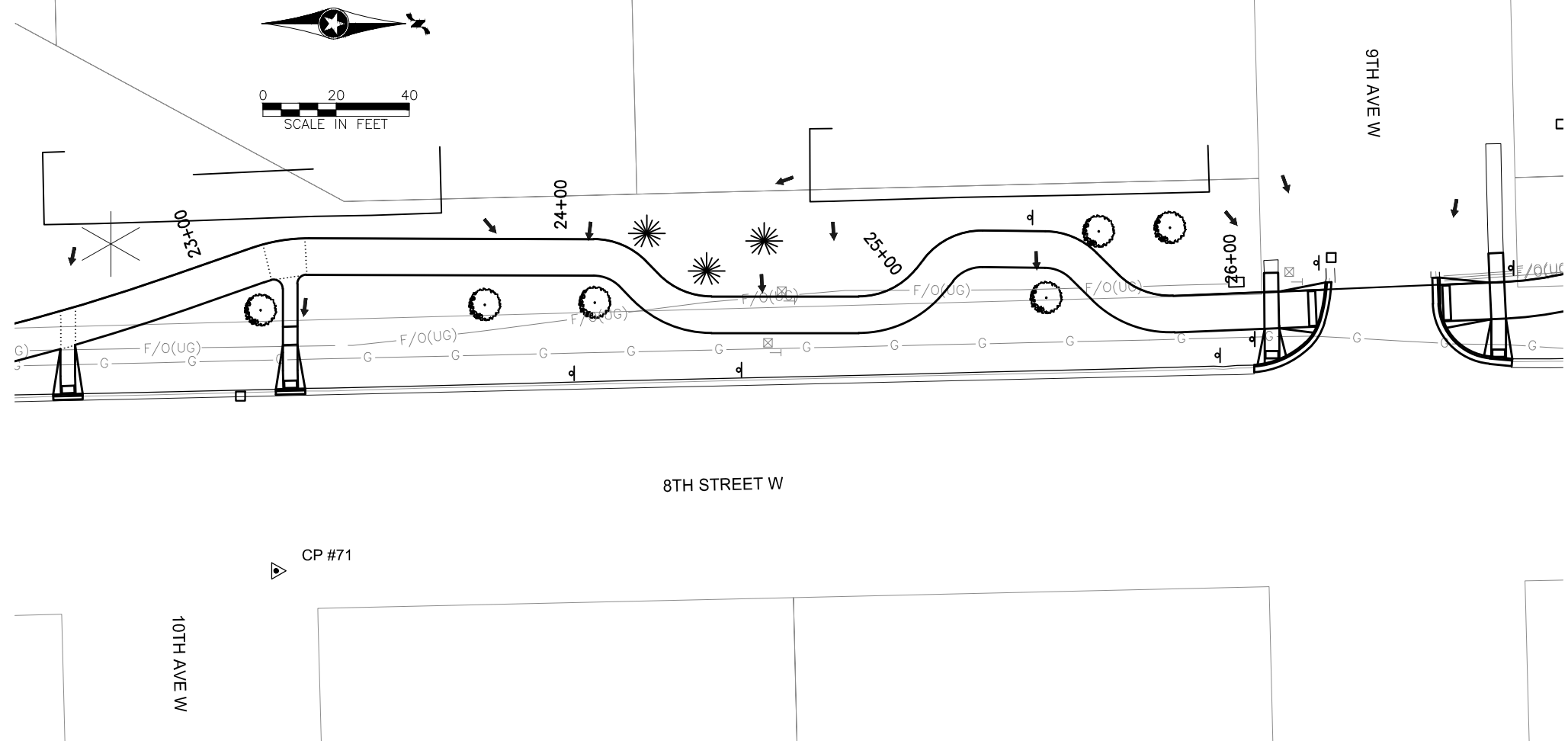
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← Surface Water Flow

Plan & Profile
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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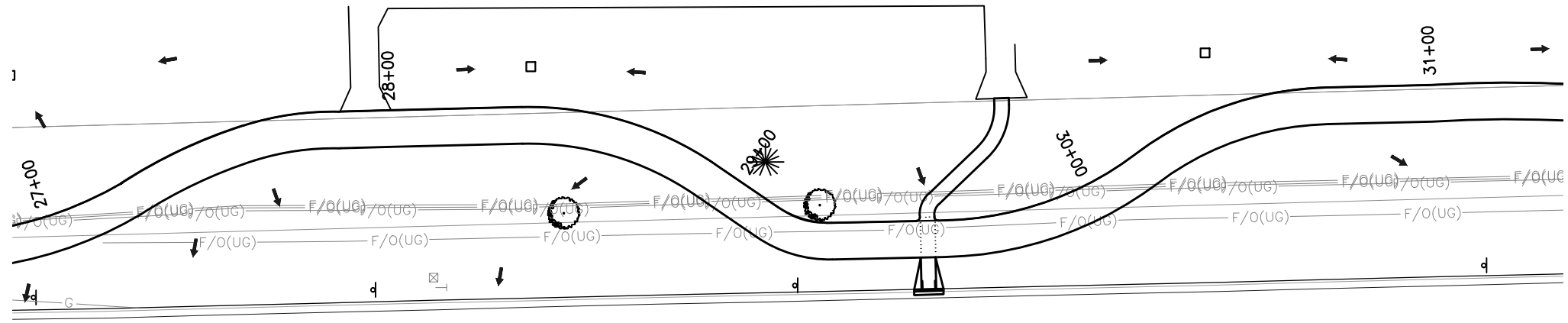
← Surface Water Flow

Plan & Profile
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



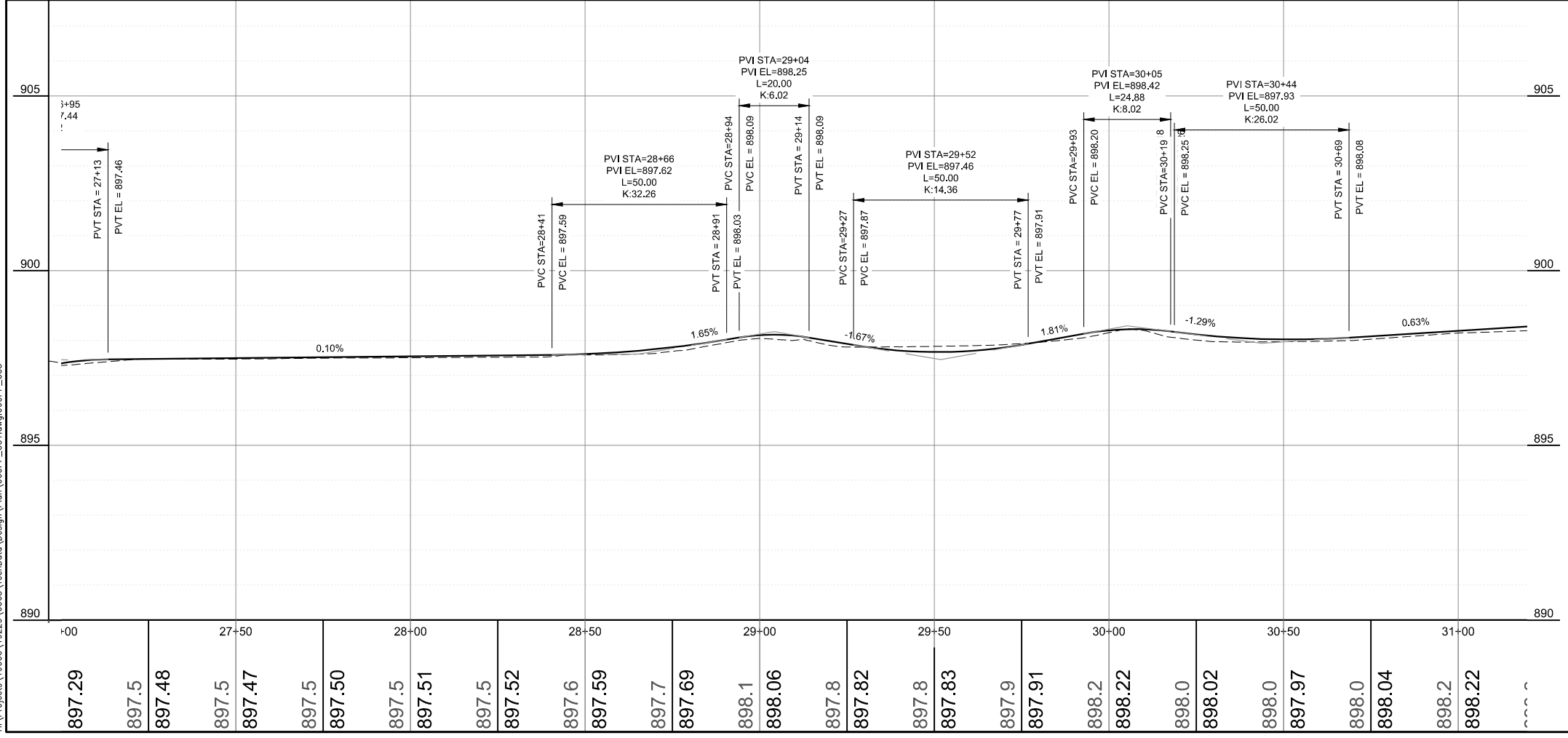
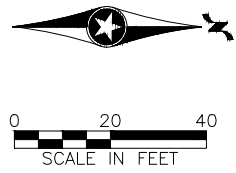
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WESTSIDE ELEMENTARY SCHOOL



8TH STREET W

8TH AVE W



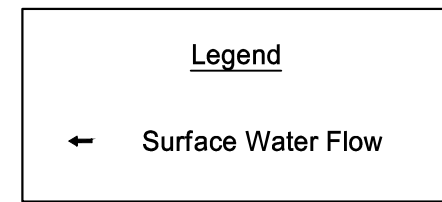
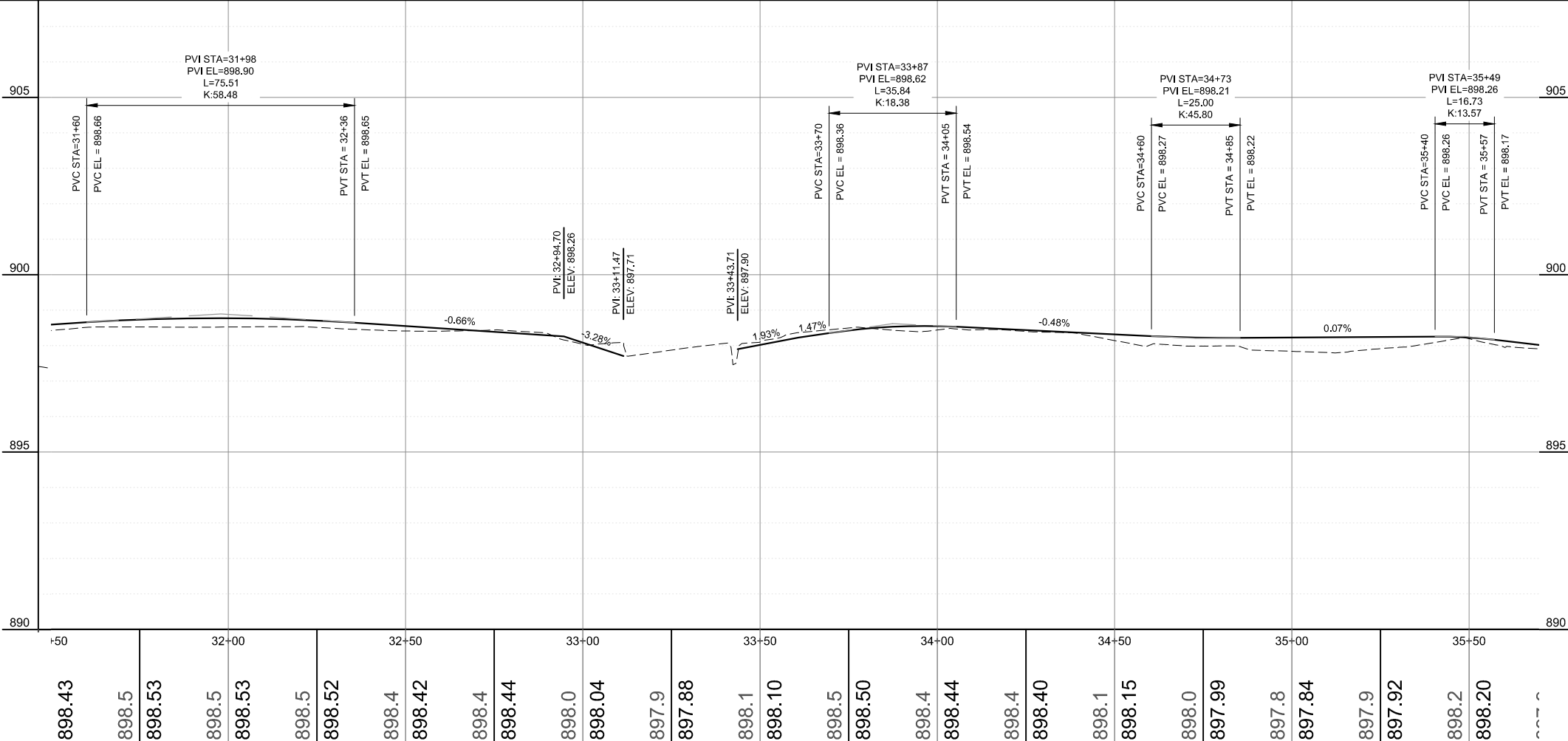
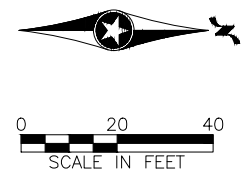
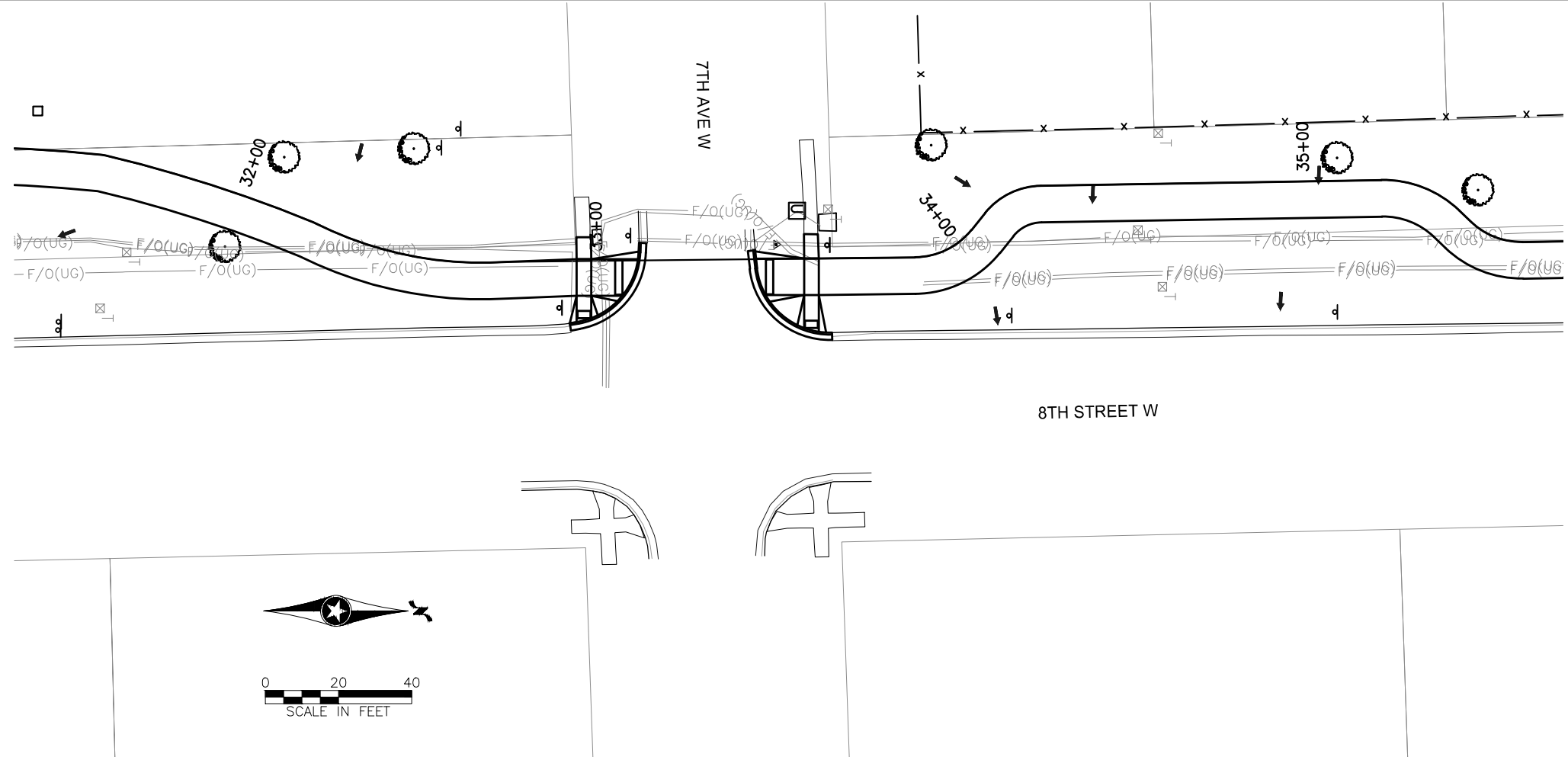
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← Surface Water Flow

Plan & Profile
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



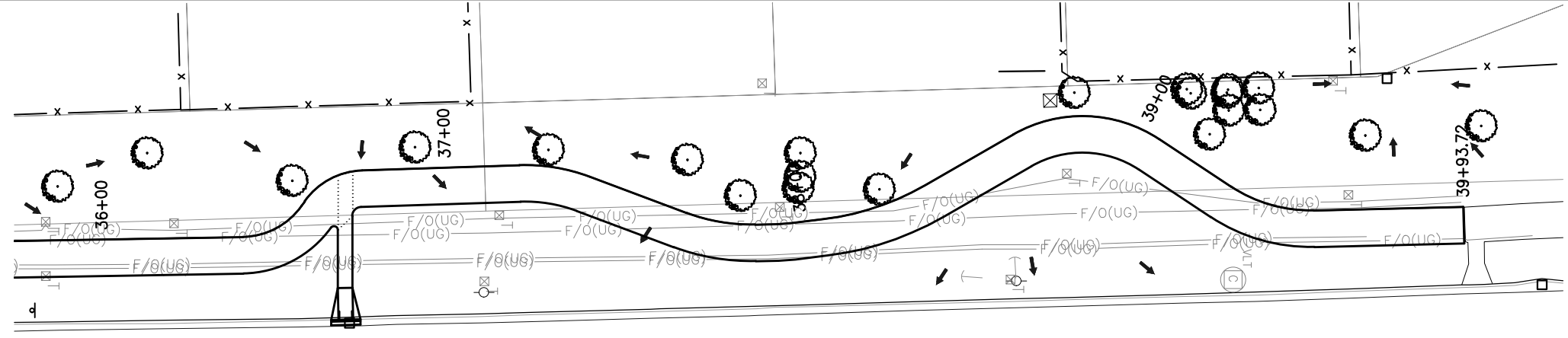
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Plan & Profile
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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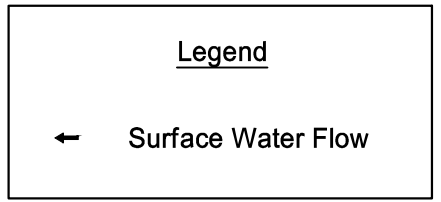
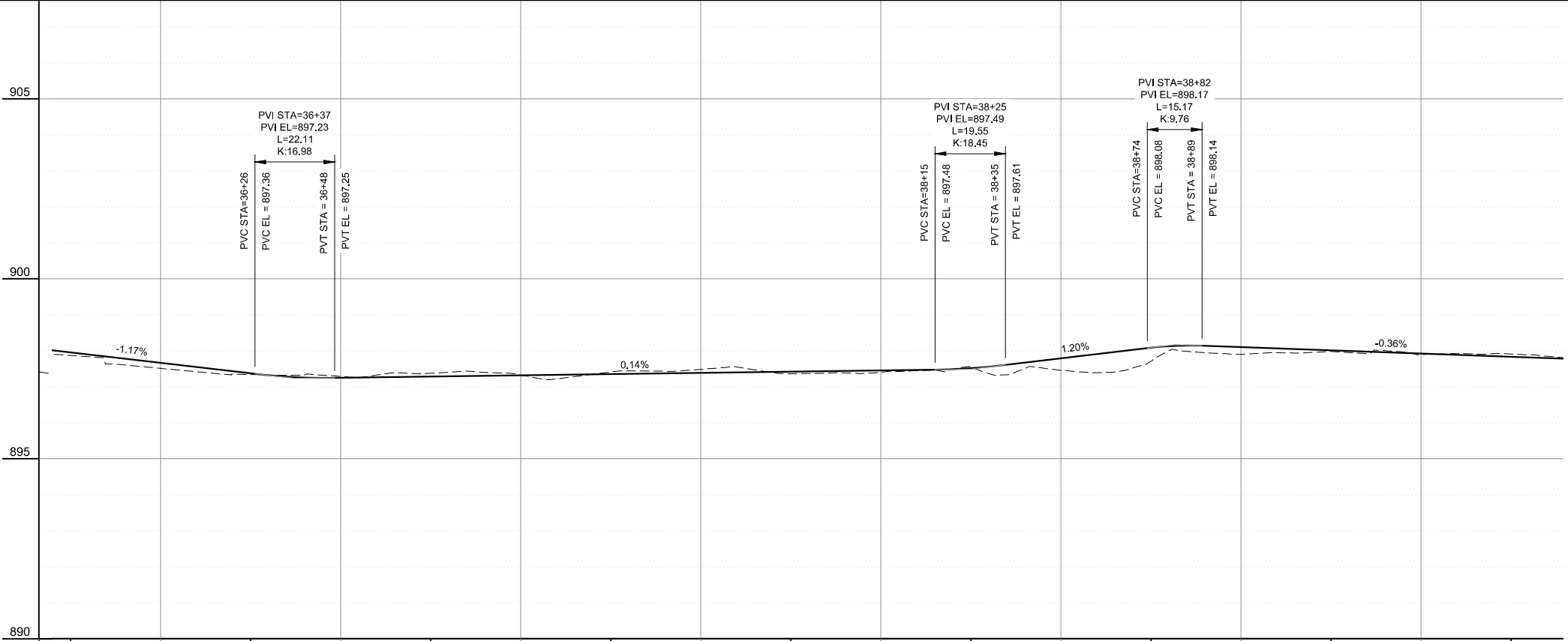
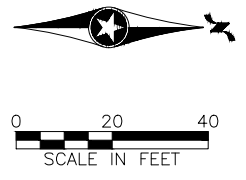


8TH STREET W

CP #70

6TH AVE W

5TH AVE W

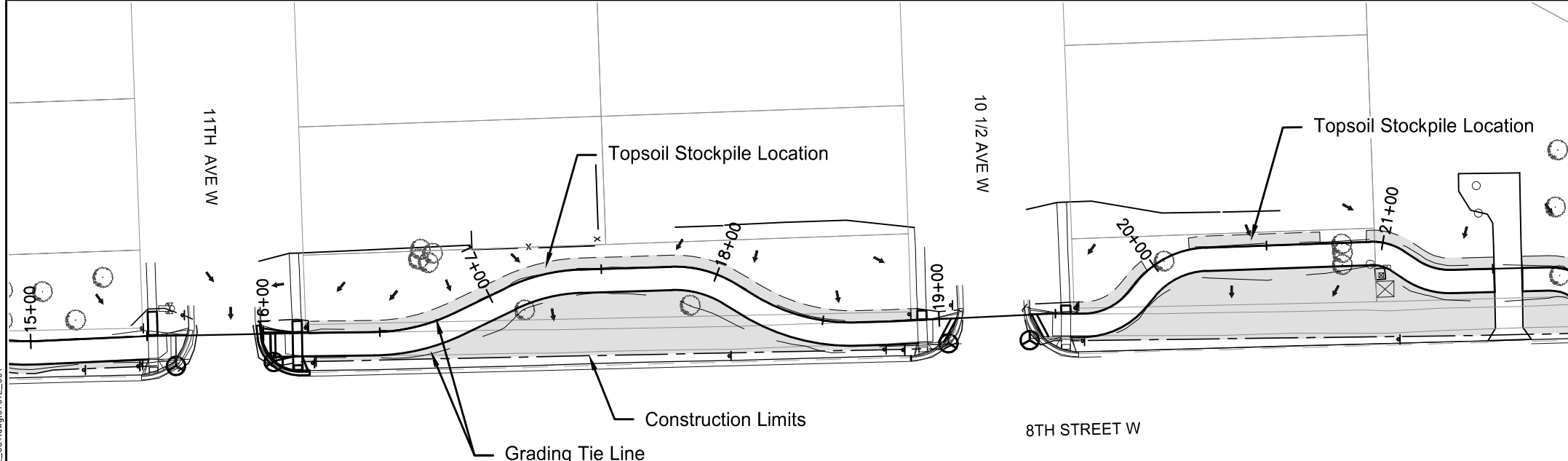
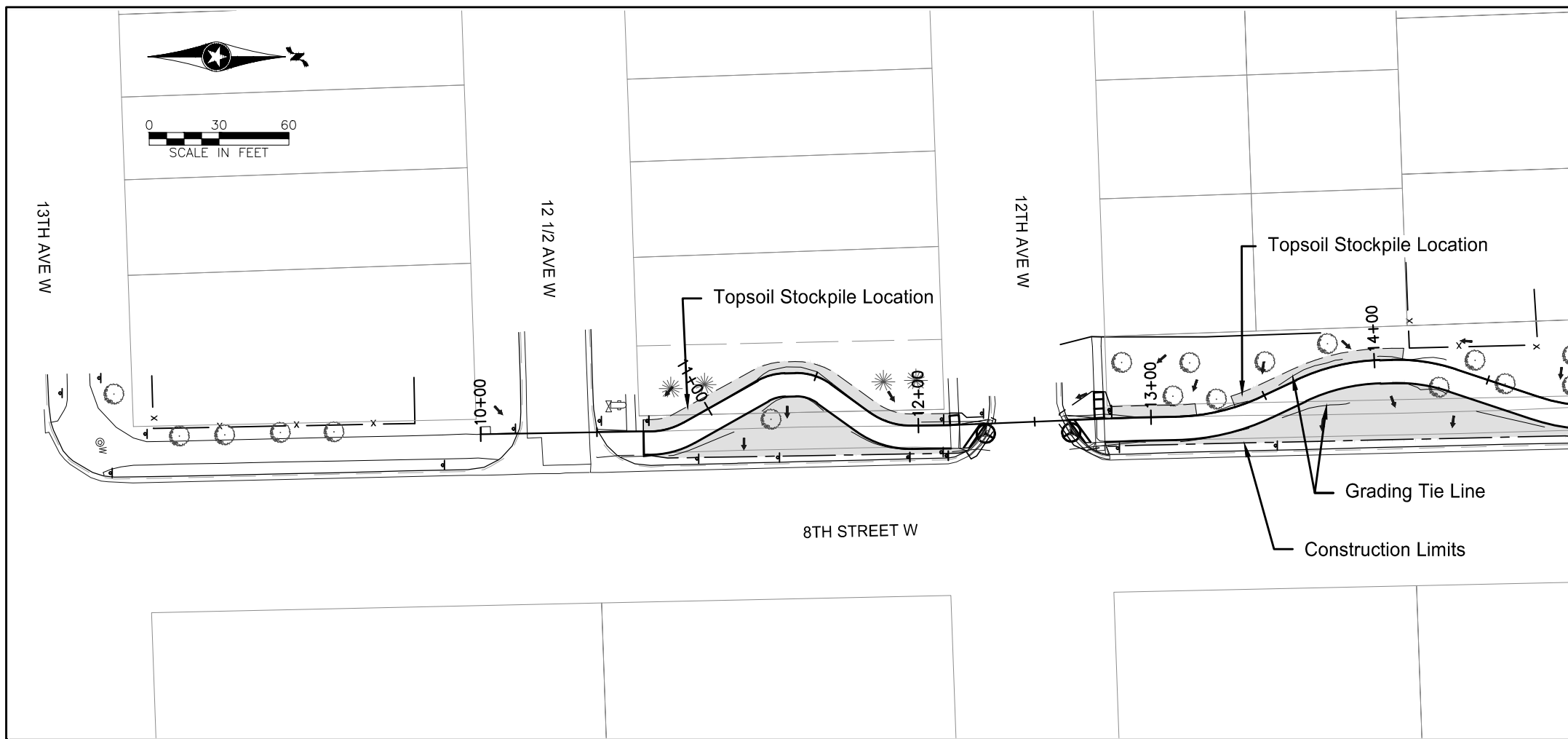


897.9	36+00	36+50	37+00	37+50	38+00	38+50	39+00	39+50	:
897.87									
897.5									
897.51									
897.3									
897.34									
897.3									
897.29									
897.4									
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Plan & Profile
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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SPEC	CODE	BID ITEM	QTY	UNIT
251	2000	TEMPORARY COVER CROP Sta 10+00 to Sta 21+87	0.35	ACRE
253	0201	HYDRAULIC MULCH Sta 10+00 to Sta 21+87	0.35	ACRE
708	1540	INLET PROTECTION-SPECIAL		
		Sta 12+29 - 4' RT	1	EA
		Sta 12+65 - 5' RT	1	EA
		Sta 15+62 - 13' RT	1	EA
		Sta 16+04 - 12' RT	1	EA
		Sta 19+04 - 11' RT	1	EA
		Sta 19+38 - 11' RT	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		Sta 12+29 - 4' RT	1	EA
		Sta 12+65 - 5' RT	1	EA
		Sta 15+62 - 13' RT	1	EA
		Sta 16+04 - 12' RT	1	EA
		Sta 19+04 - 11' RT	1	EA
		Sta 19+38 - 11' RT	1	EA

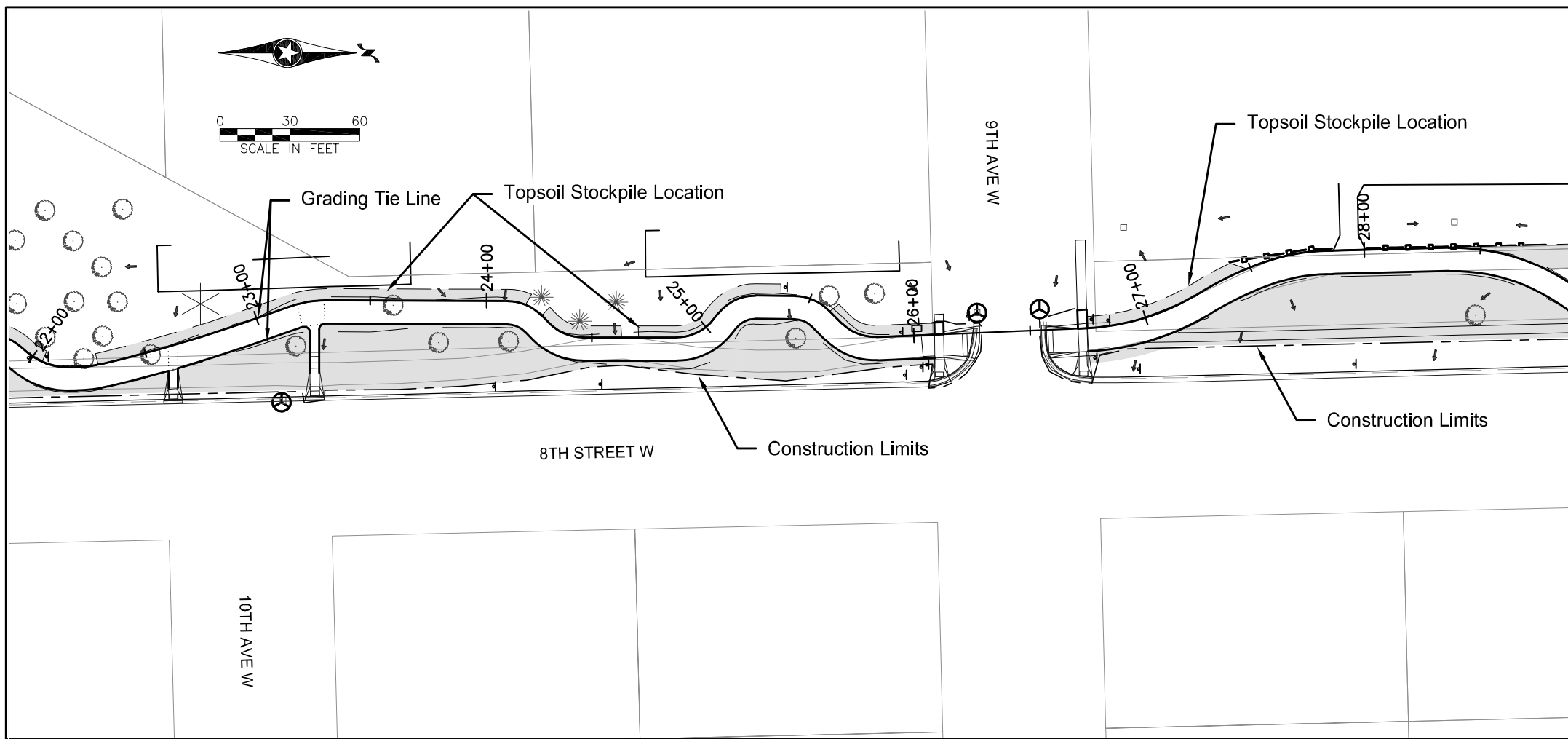
Legend

	Temporary Cover Crop & Hydraulic Mulch
	Silt Fence
	Inlet Protection
	Grading Tie Line
	Construction Limits
	Limits of Topsoil Stockpiling (5' o/s of Edge of Walk Max.)

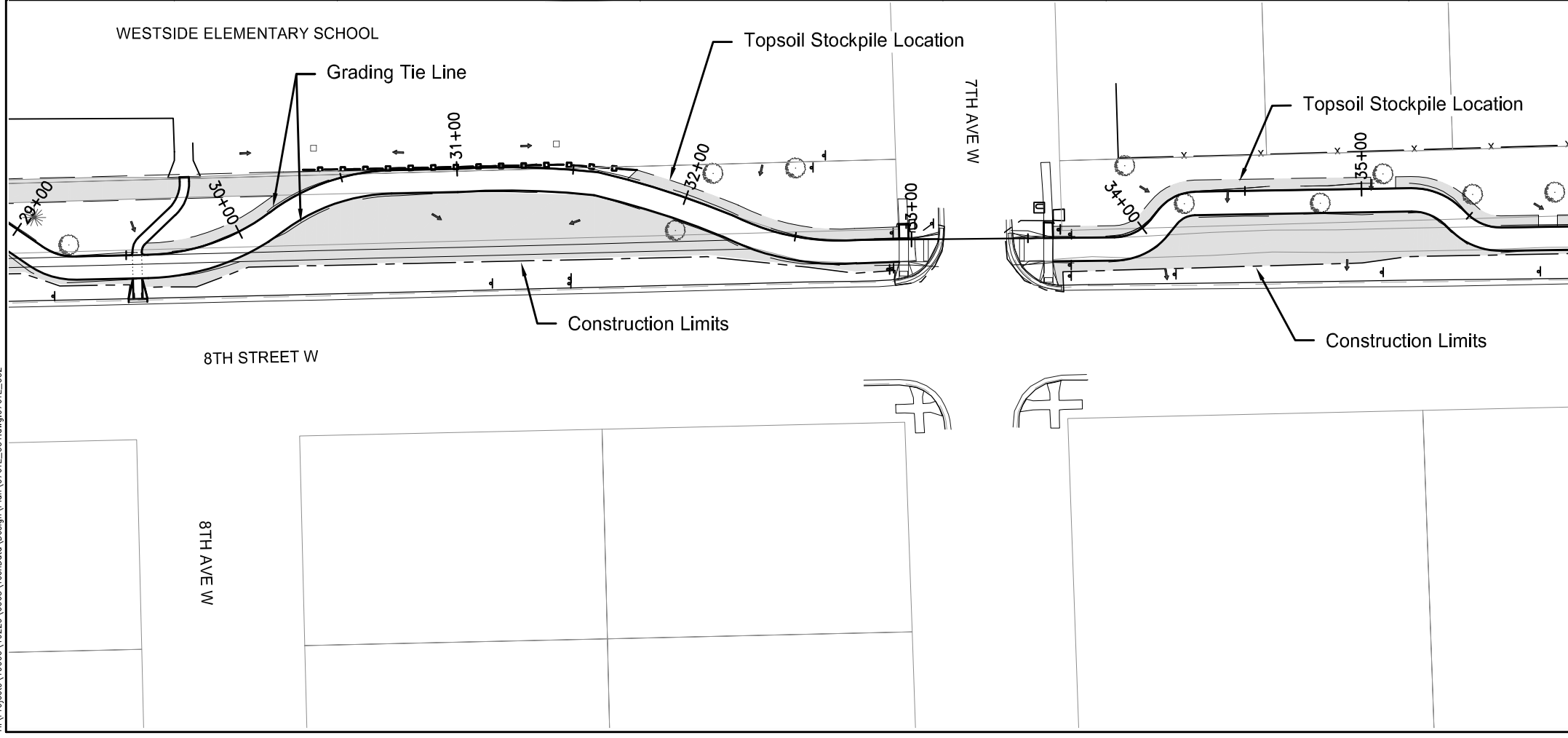
Temporary Erosion Control
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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SPEC CODE	BID ITEM	QTY	UNIT
251 2000	TEMPORARY COVER CROP Sta 21+87 to Sta 35+97	0.56	ACRE
253 0201	HYDRAULIC MULCH Sta 21+87 to Sta 35+97	0.56	ACRE
260 0300	SILT FENCE		
	Sta 27+43 - 6' LT to Sta 27+77 - 1' LT	36	LF
	Sta 27+77 - 1' LT to Sta 27+86 - 1' LT	9	LF
	Sta 28+01 - 1' LT to Sta 28+44 - 1' LT	43	LF
	Sta 28+44 - 1' LT to Sta 28+77 - 5' LT	35	LF
	Sta 30+35 - 5' LT to Sta 30+55 - 3' LT	21	LF
	Sta 30+55 - 3' LT to Sta 31+46 - 2' LT	92	LF
	Sta 31+46 - 2' LT to Sta 31+77 - 5' LT	32	LF
708 1540	INLET PROTECTION-SPECIAL		
	Sta 22+99 - 38' RT	1	EA
	Sta 26+28 - 9' LT	1	EA
	Sta 26+54 - 9' LT	1	EA
708 1541	REMOVE INLET PROTECTION-SPECIAL		
	Sta 22+99 - 38' RT	1	EA
	Sta 26+28 - 9' LT	1	EA
	Sta 26+54 - 9' LT	1	EA



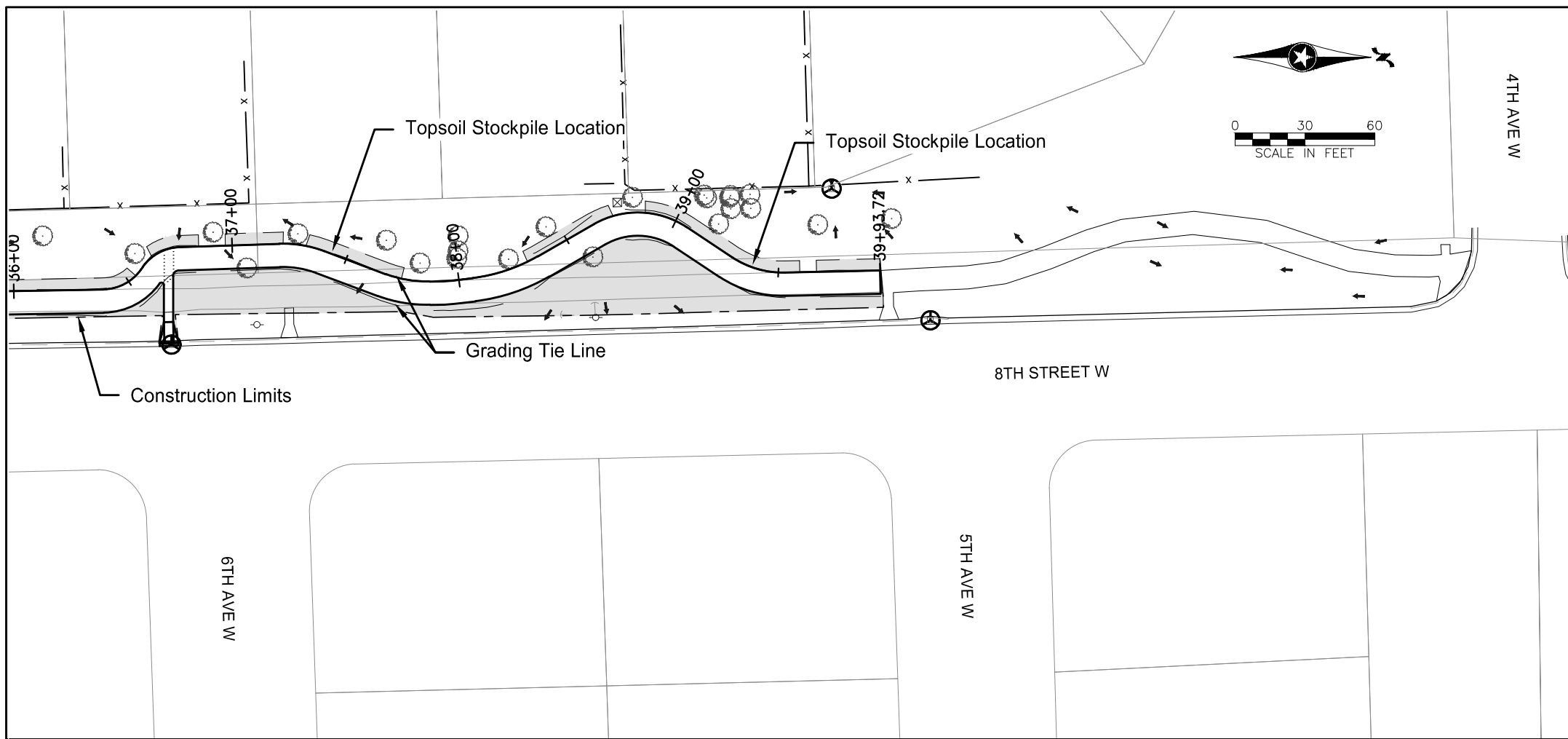
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	Temporary Cover Crop & Hydraulic Mulch
	Silt Fence
	Inlet Protection
	Grading Tie Line
	Construction Limits
	Limits of Topsoil Stockpiling (5' o/s of Edge of Walk Max.)

Temporary Erosion Control
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	76	3



SPEC CODE	BID ITEM	QTY	UNIT
251 2000	TEMPORARY COVER CROP Sta 35+97 to Sta 39+94	0.14	ACRE
253 0201	HYDRAULIC MULCH Sta 35+97 to Sta 39+94	0.14	ACRE
708 1540	INLET PROTECTION-SPECIAL Sta 36+73 - 41' RT Sta 39+74 - 36' LT Sta 40+15 - 22' RT	1 1 1	EA EA EA
708 1541	REMOVE INLET PROTECTION-SPECIAL Sta 36+73 - 41' RT Sta 39+74 - 36' LT Sta 40+15 - 22' RT	1 1 1	EA EA EA

Legend	
	Temporary Cover Crop & Hydraulic Mulch
	Silt Fence
	Inlet Protection
	Grading Tie Line
	Construction Limits
	Limits of Topsoil Stockpiling (5' o/s of Edge of Walk Max.)

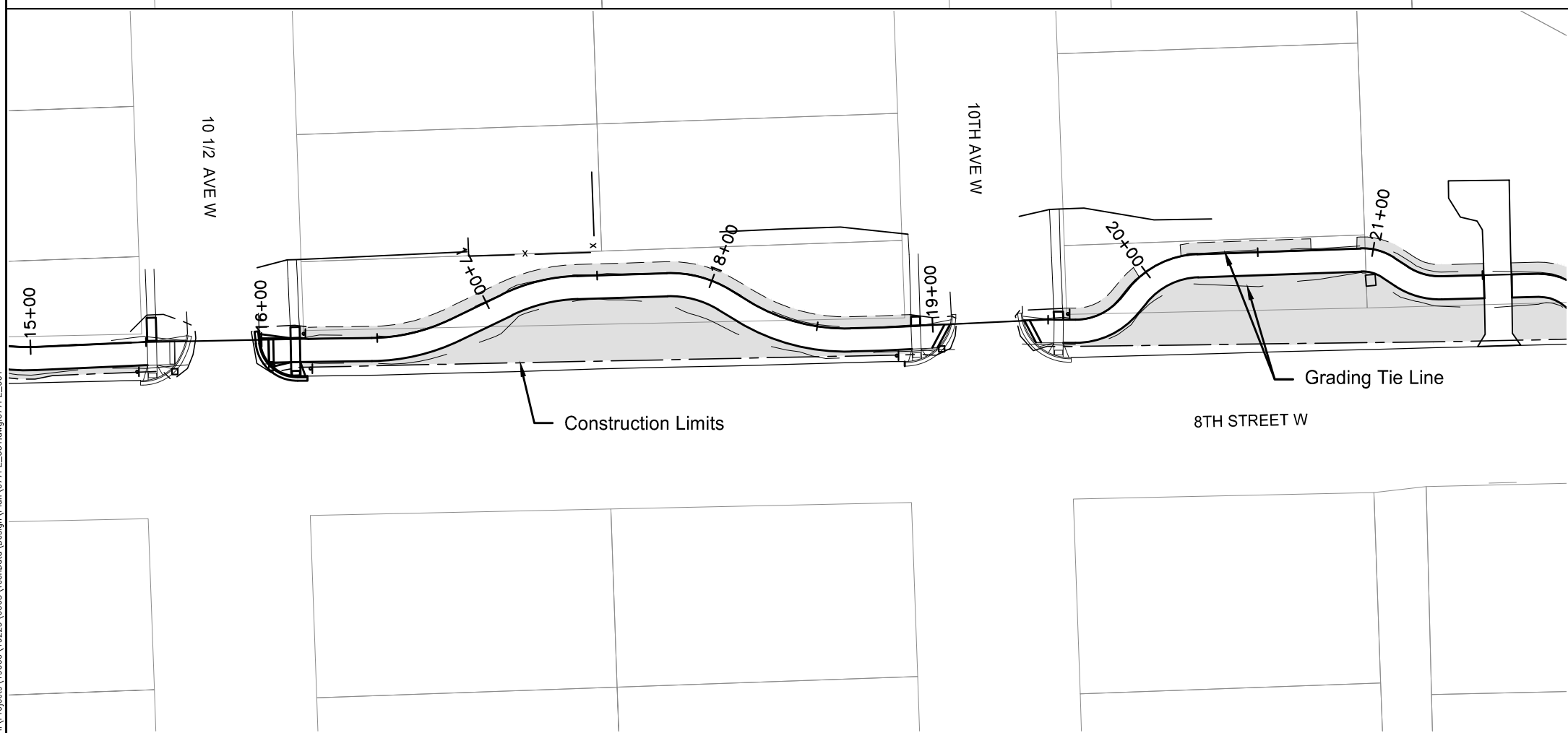
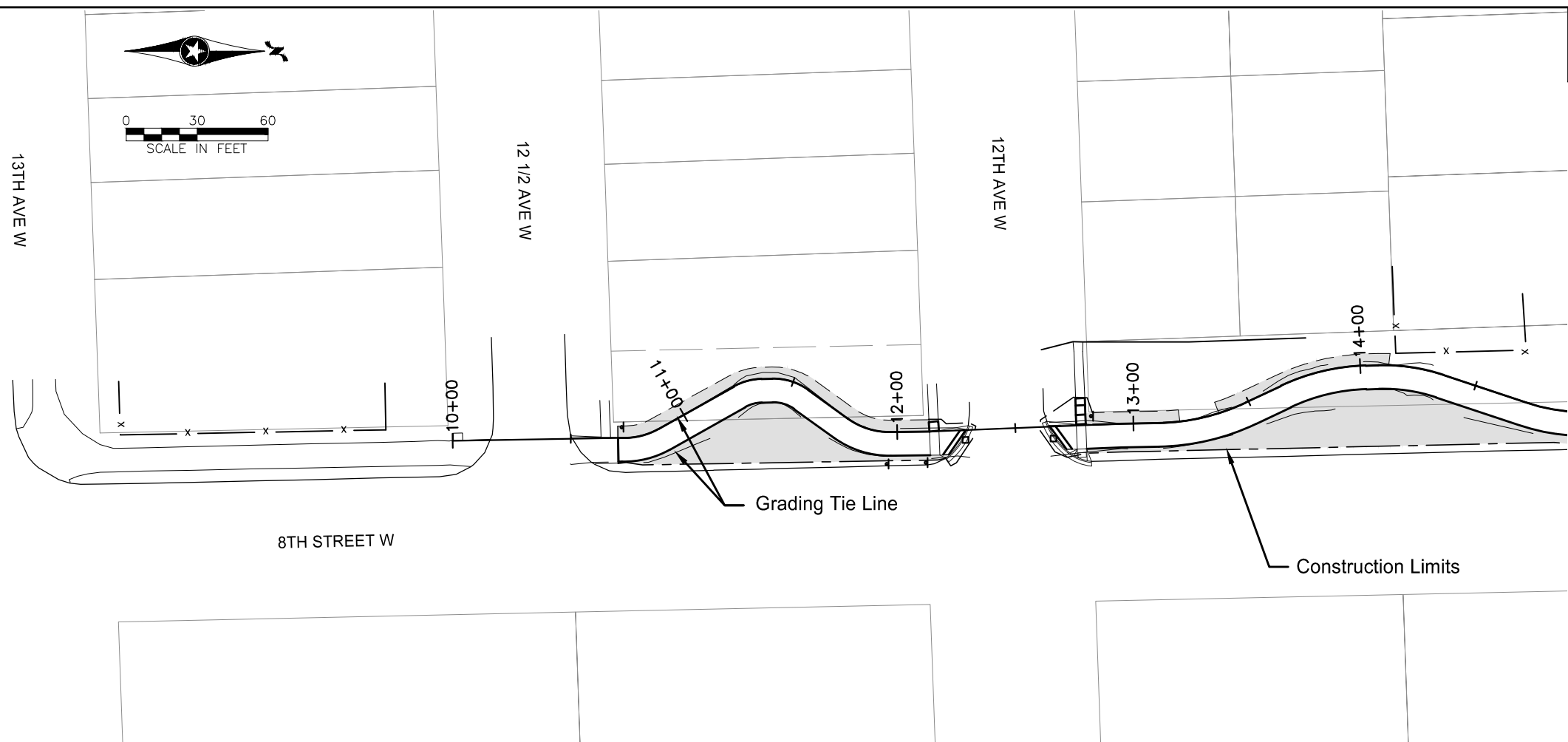
Temporary Erosion Control
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W






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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	77	1

SPEC	CODE	BID ITEM	QTY	UNIT
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253	0201	HYDRAULIC MULCH Sta 10+00 to Sta 21+87	0.35	ACRE



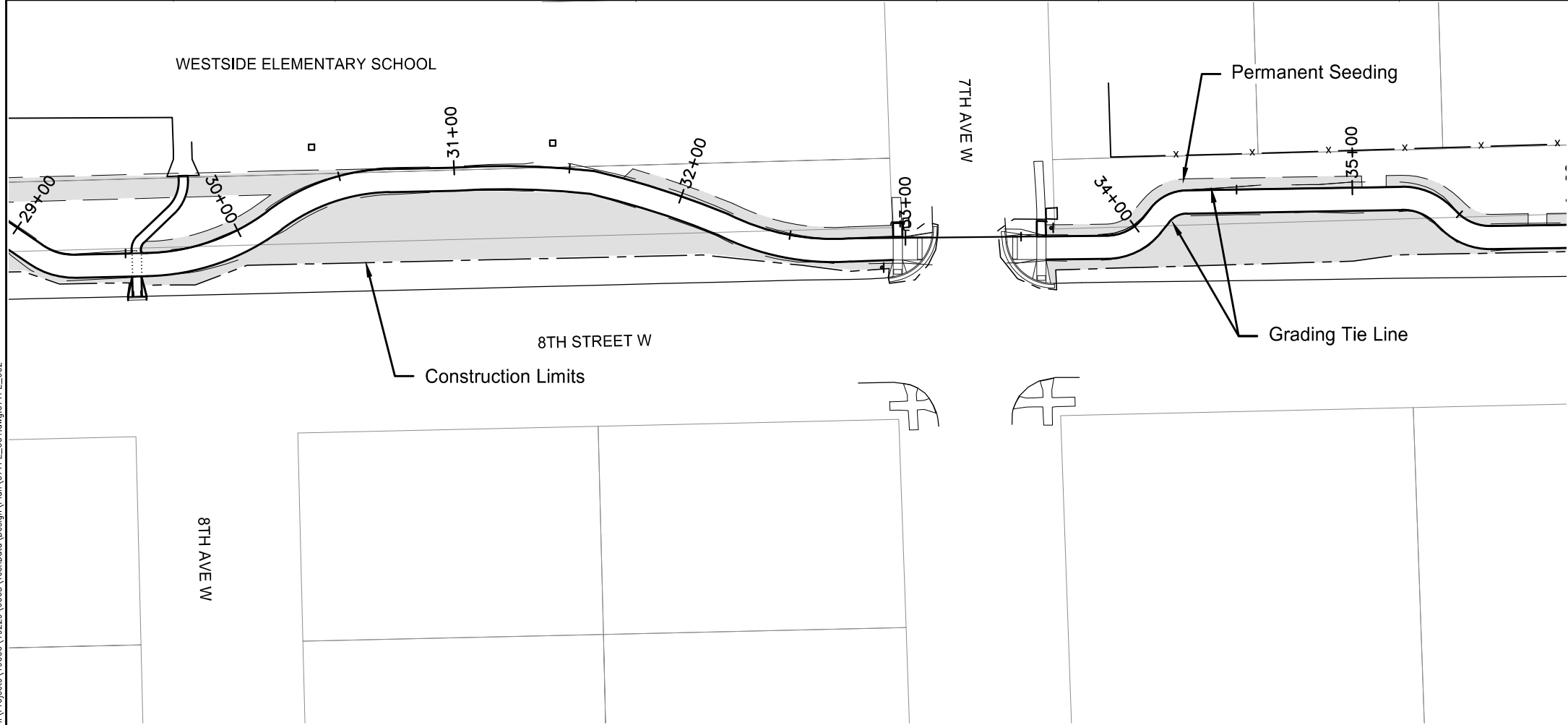
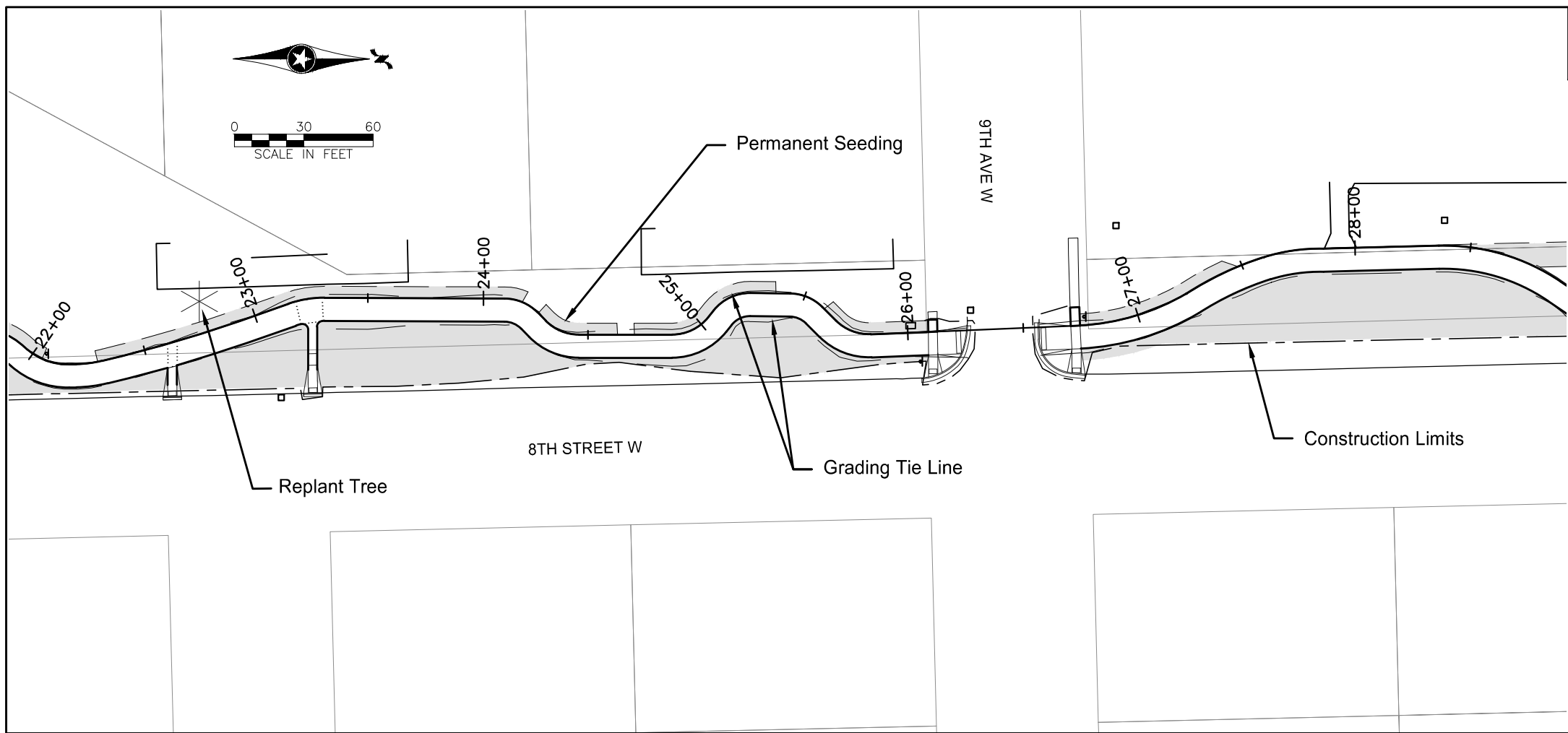
Legend

-  Seeding Class I & Hydraulic Mulch
-  Grading Tie Line
-  Construction Limits

Permanent Erosion Control
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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SPEC	CODE	BID ITEM	QTY	UNIT
251	0300	SEEDING CLASS III Sta 21+87 to Sta 35+97	0.56	ACRE
253	0201	HYDRAULIC MULCH Sta 21+87 to Sta 35+97	0.56	ACRE
970	1025	REPLANT TREES Sta 22+79 - 13.5' LT	1	EA

Legend

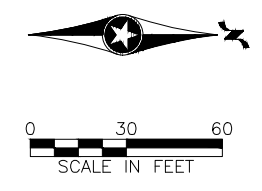
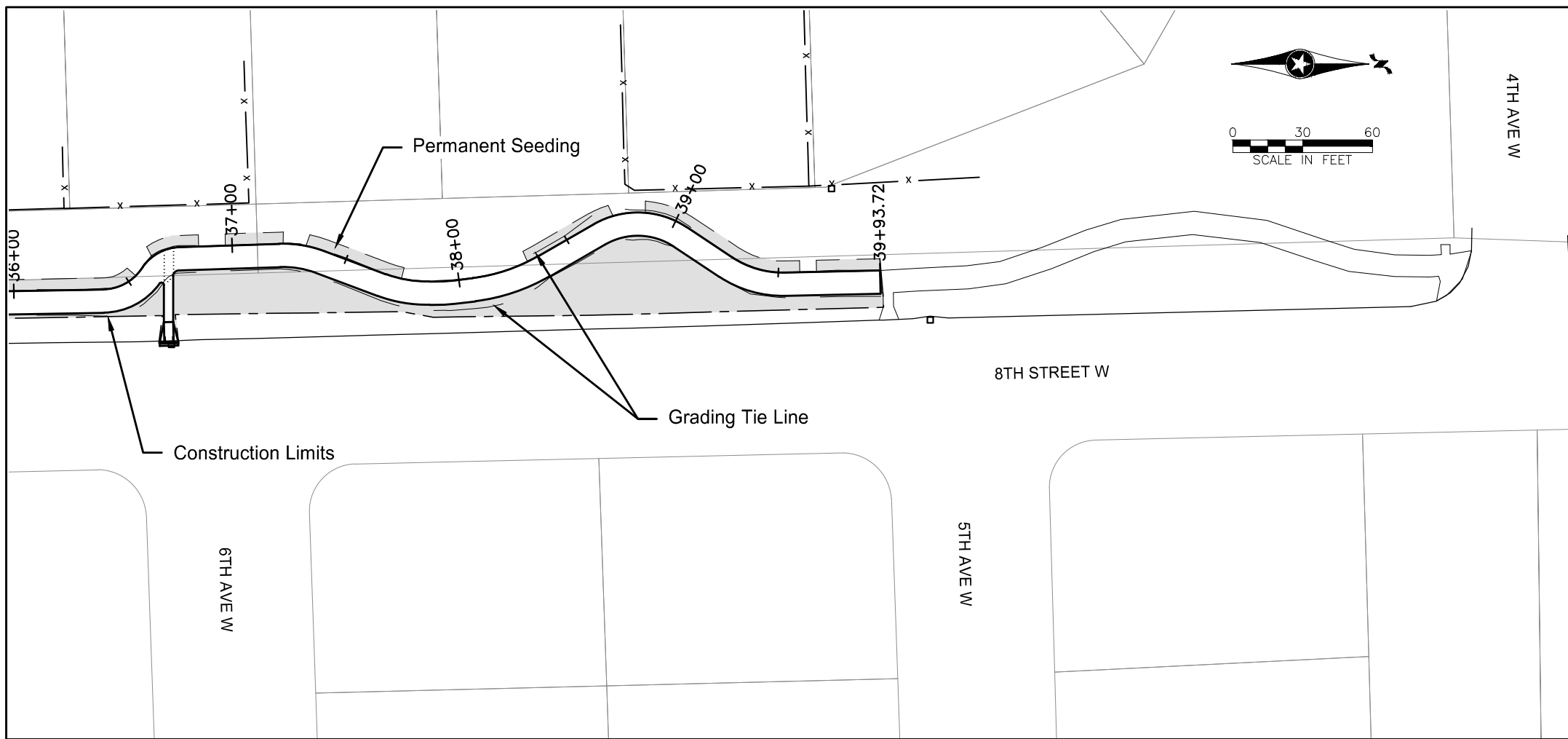
- Seeding Class I & Hydraulic Mulch
- Grading Tie Line
- Construction Limits

Permanent Erosion Control
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W






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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	77	3



SPEC	CODE	BID ITEM	QTY
251	0300	SEEDING CLASS III Sta 35+97 to Sta 39+94	0.14
253	0201	HYDRAULIC MULCH Sta 35+97 to Sta 39+94	0.14

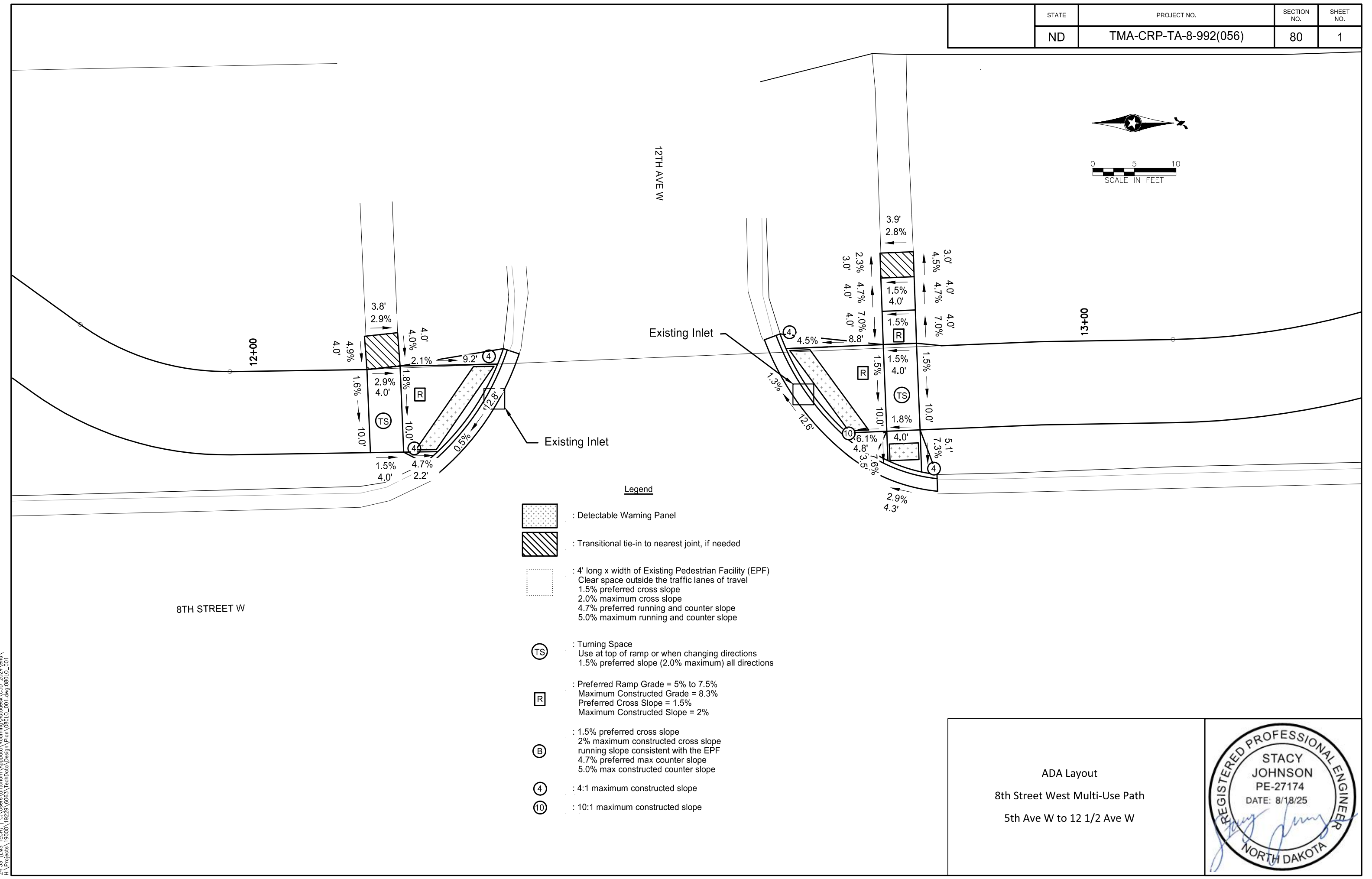
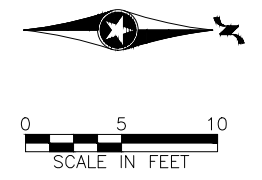
Legend	
	Seeding Class I & Hydraulic Mulch
	Grading Tie Line
	Construction Limits

Permanent Erosion Control
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	80	1



- Legend**
- : Detectable Warning Panel
 - : Transitional tie-in to nearest joint, if needed
 - : 4' long x width of Existing Pedestrian Facility (EPF)
Clear space outside the traffic lanes of travel
1.5% preferred cross slope
2.0% maximum cross slope
4.7% preferred running and counter slope
5.0% maximum running and counter slope
 - : Turning Space
Use at top of ramp or when changing directions
1.5% preferred slope (2.0% maximum) all directions
 - : Preferred Ramp Grade = 5% to 7.5%
Maximum Constructed Grade = 8.3%
Preferred Cross Slope = 1.5%
Maximum Constructed Slope = 2%
 - : 1.5% preferred cross slope
2% maximum constructed cross slope
running slope consistent with the EPF
4.7% preferred max counter slope
5.0% max constructed counter slope
 - : 4:1 maximum constructed slope
 - : 10:1 maximum constructed slope

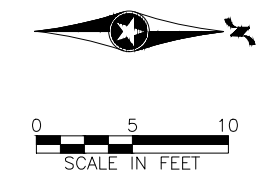
8TH STREET W

12TH AVE W

ADA Layout
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W

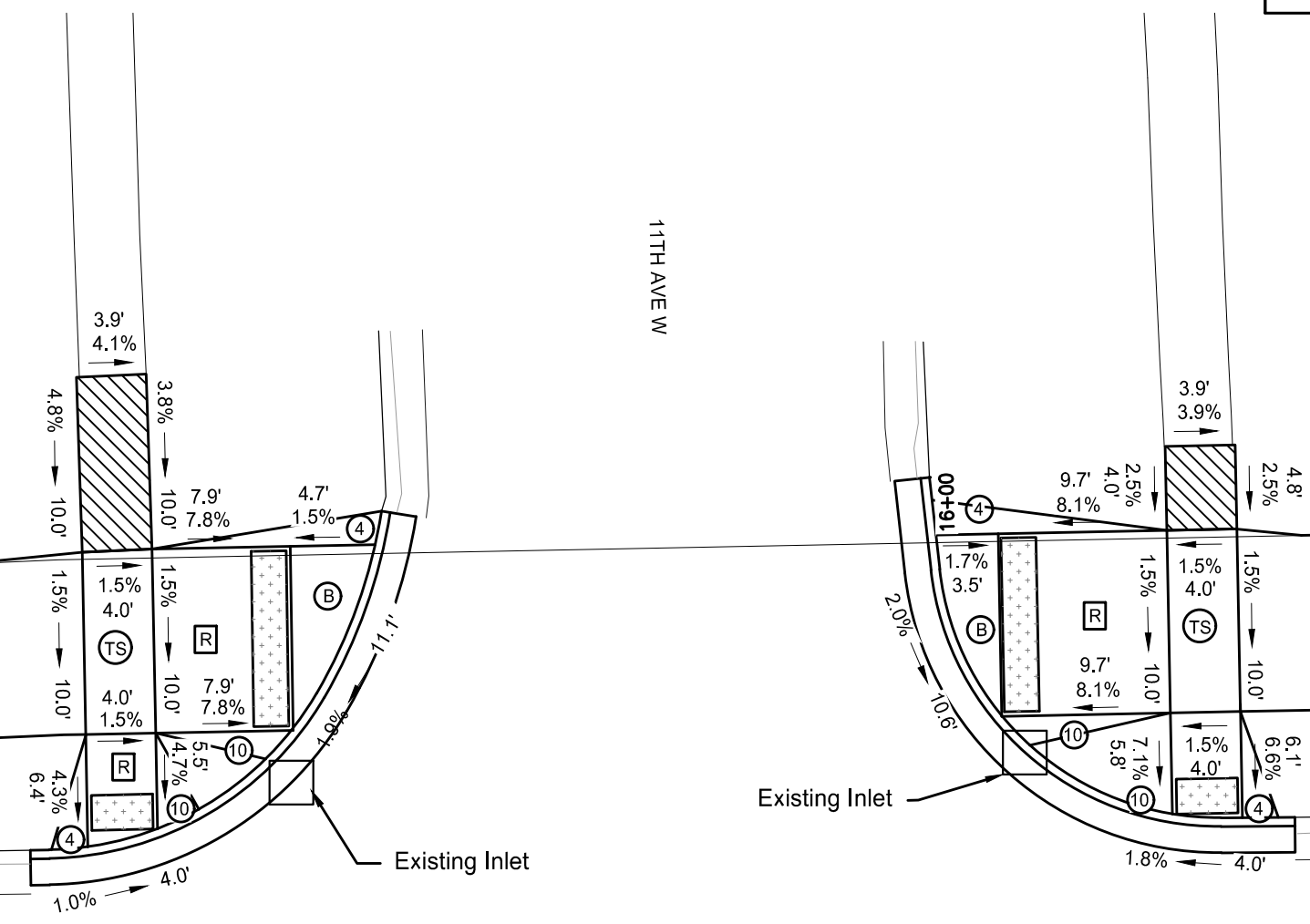


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8TH STREET W

11TH AVE W



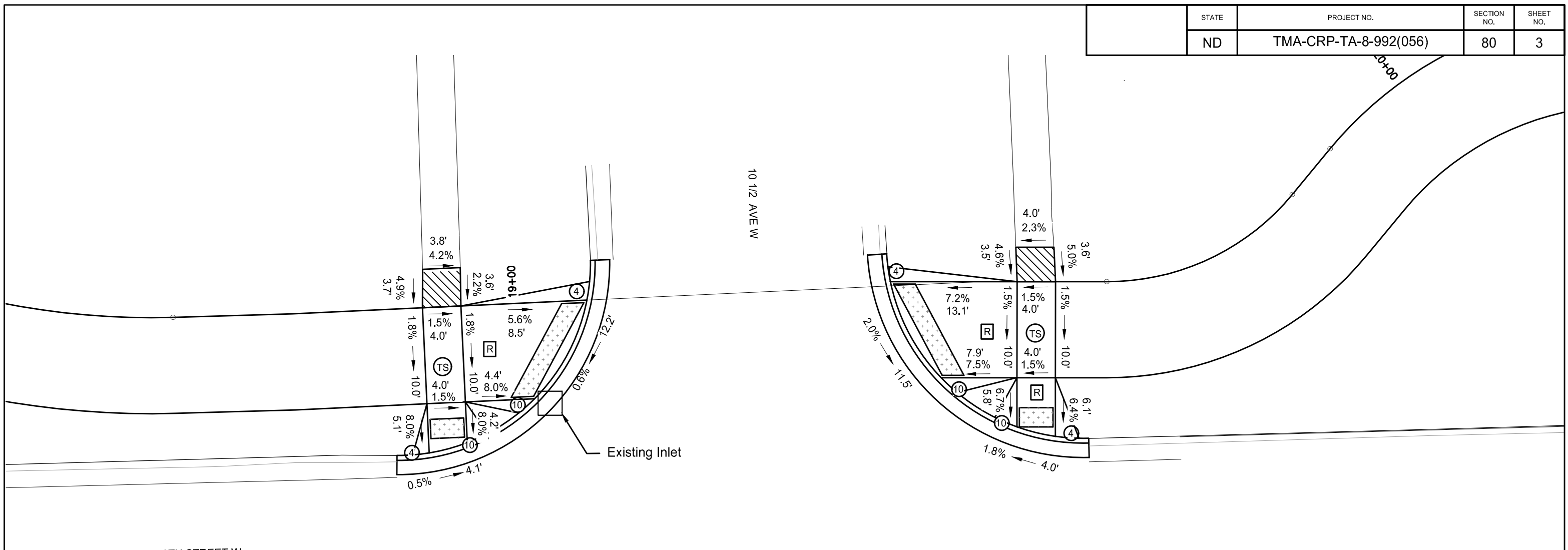
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-  : Detectable Warning Panel
-  : Transitional tie-in to nearest joint, if needed
-  : 4' long x width of Existing Pedestrian Facility (EPF)
Clear space outside the traffic lanes of travel
1.5% preferred cross slope
2.0% maximum cross slope
4.7% preferred running and counter slope
5.0% maximum running and counter slope
-  : Turning Space
Use at top of ramp or when changing directions
1.5% preferred slope (2.0% maximum) all directions
-  : Preferred Ramp Grade = 5% to 7.5%
Maximum Constructed Grade = 8.3%
Preferred Cross Slope = 1.5%
Maximum Constructed Slope = 2%
-  : 1.5% preferred cross slope
2% maximum constructed cross slope
running slope consistent with the EPF
4.7% preferred max counter slope
5.0% max constructed counter slope
-  : 4:1 maximum constructed slope
-  : 10:1 maximum constructed slope









ADA Layout
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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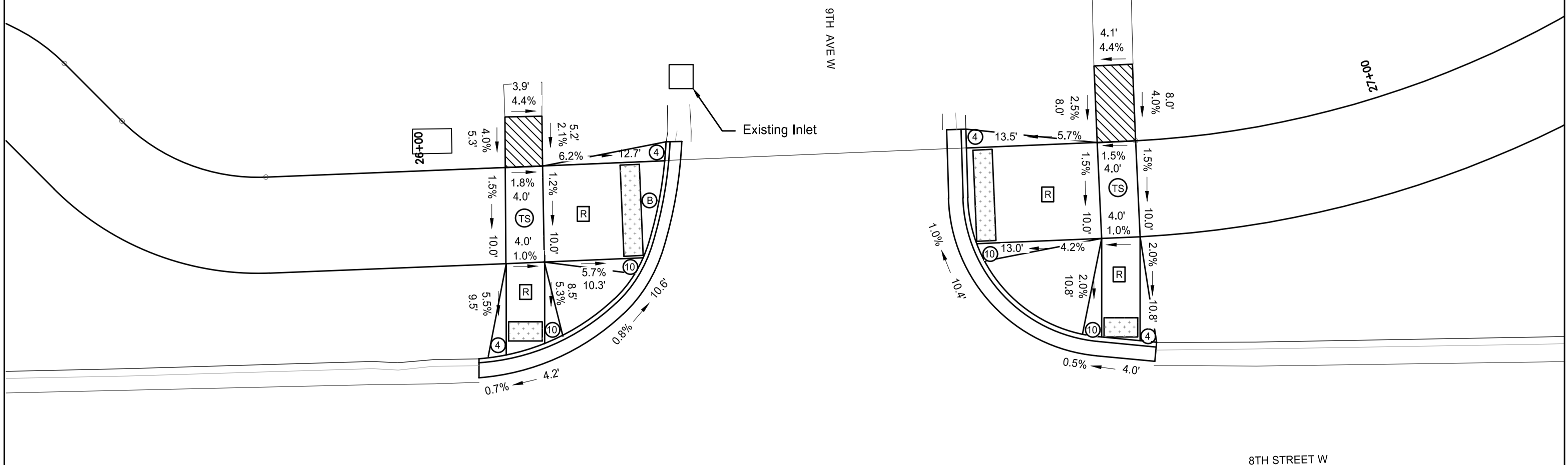
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-  : Detectable Warning Panel
-  : Transitional tie-in to nearest joint, if needed
-  : 4' long x width of Existing Pedestrian Facility (EPF)
Clear space outside the traffic lanes of travel
1.5% preferred cross slope
2.0% maximum cross slope
4.7% preferred running and counter slope
5.0% maximum running and counter slope
-  : Turning Space
Use at top of ramp or when changing directions
1.5% preferred slope (2.0% maximum) all directions
-  : Preferred Ramp Grade = 5% to 7.5%
Maximum Constructed Grade = 8.3%
Preferred Cross Slope = 1.5%
Maximum Constructed Slope = 2%
-  : 1.5% preferred cross slope
2% maximum constructed cross slope
running slope consistent with the EPF
4.7% preferred max counter slope
5.0% max constructed counter slope
-  : 4:1 maximum constructed slope
-  : 10:1 maximum constructed slope









ADA Layout
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W

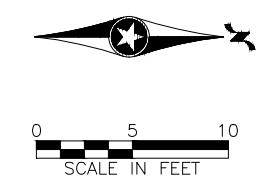


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Legend

-  : Detectable Warning Panel
-  : Transitional tie-in to nearest joint, if needed
-  : 4' long x width of Existing Pedestrian Facility (EPF)
Clear space outside the traffic lanes of travel
1.5% preferred cross slope
2.0% maximum cross slope
4.7% preferred running and counter slope
5.0% maximum running and counter slope
-  : Turning Space
Use at top of ramp or when changing directions
1.5% preferred slope (2.0% maximum) all directions
-  : Preferred Ramp Grade = 5% to 7.5%
Maximum Constructed Grade = 8.3%
Preferred Cross Slope = 1.5%
Maximum Constructed Slope = 2%
-  : 1.5% preferred cross slope
2% maximum constructed cross slope
running slope consistent with the EPF
4.7% preferred max counter slope
5.0% max constructed counter slope
-  : 4:1 maximum constructed slope
-  : 10:1 maximum constructed slope

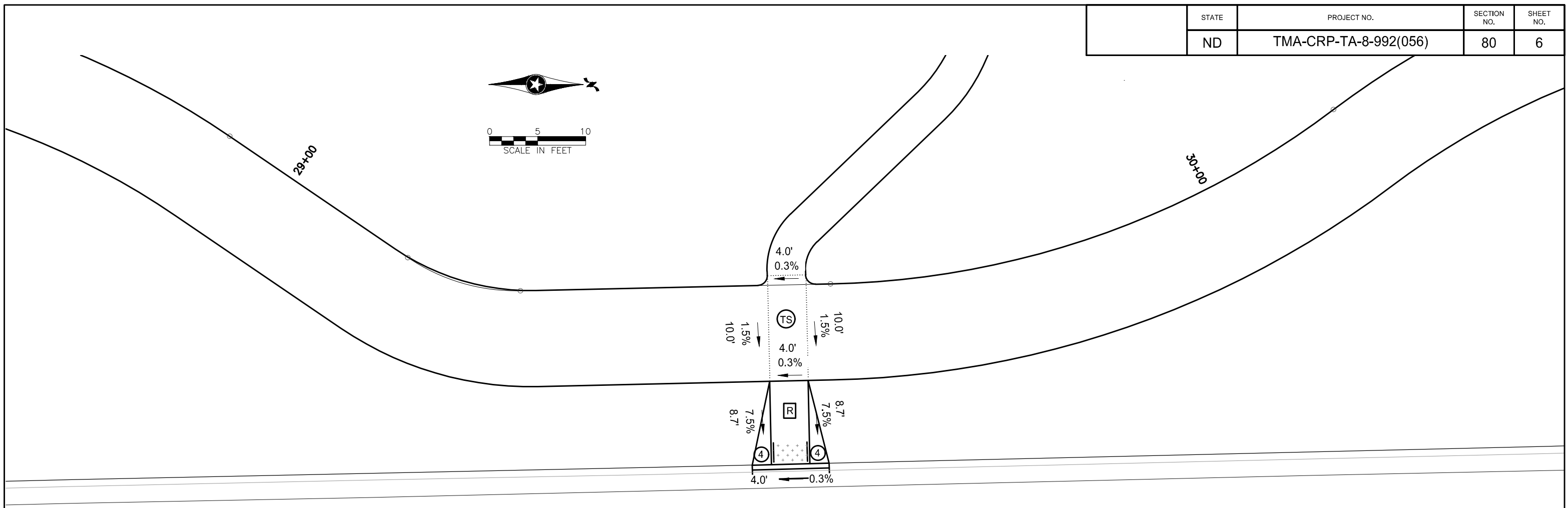


ADA Layout
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	80	6



8TH STREET W

8TH AVE W

Legend

- : Detectable Warning Panel
- : Transitional tie-in to nearest joint, if needed
- : 4' long x width of Existing Pedestrian Facility (EPF)
Clear space outside the traffic lanes of travel
1.5% preferred cross slope
2.0% maximum cross slope
4.7% preferred running and counter slope
5.0% maximum running and counter slope
- : Turning Space
Use at top of ramp or when changing directions
1.5% preferred slope (2.0% maximum) all directions
- : Preferred Ramp Grade = 5% to 7.5%
Maximum Constructed Grade = 8.3%
Preferred Cross Slope = 1.5%
Maximum Constructed Slope = 2%
- : 1.5% preferred cross slope
2% maximum constructed cross slope
running slope consistent with the EPF
4.7% preferred max counter slope
5.0% max constructed counter slope
- : 4:1 maximum constructed slope
- : 10:1 maximum constructed slope









ADA Layout
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W

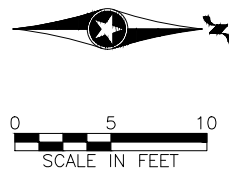


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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	TMA-CRP-TA-8-992(056)	80	7

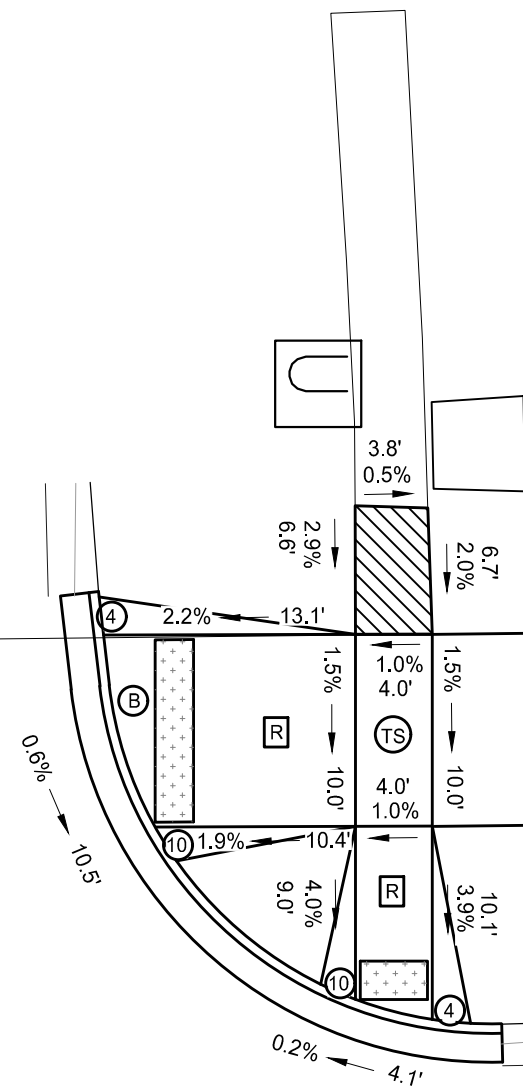
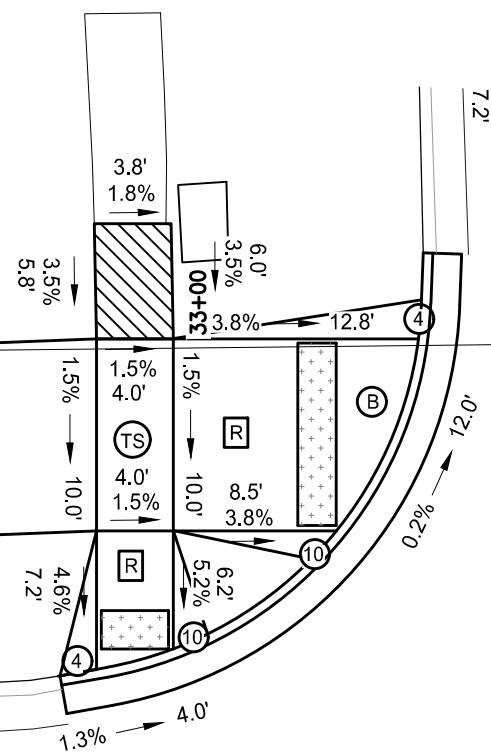
Legend

-  : Detectable Warning Panel
-  : Transitional tie-in to nearest joint, if needed
-  : 4' long x width of Existing Pedestrian Facility (EPF)
Clear space outside the traffic lanes of travel
1.5% preferred cross slope
2.0% maximum cross slope
4.7% preferred running and counter slope
5.0% maximum running and counter slope
-  (TS) : Turning Space
Use at top of ramp or when changing directions
1.5% preferred slope (2.0% maximum) all directions
-  (R) : Preferred Ramp Grade = 5% to 7.5%
Maximum Constructed Grade = 8.3%
Preferred Cross Slope = 1.5%
Maximum Constructed Slope = 2%
-  (B) : 1.5% preferred cross slope
2% maximum constructed cross slope
running slope consistent with the EPF
4.7% preferred max counter slope
5.0% max constructed counter slope
-  (4) : 4:1 maximum constructed slope
-  (10) : 10:1 maximum constructed slope



7TH AVE W

8TH STREET W

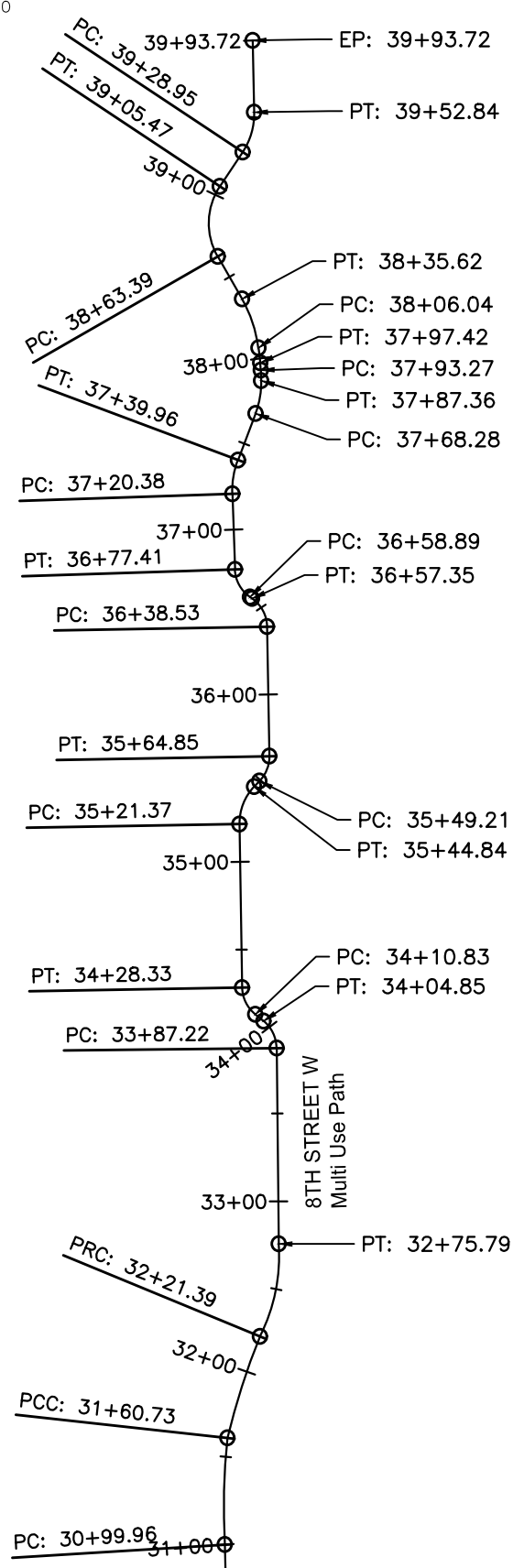
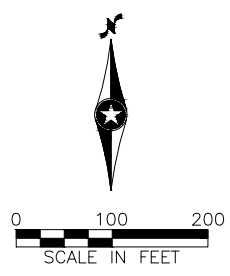
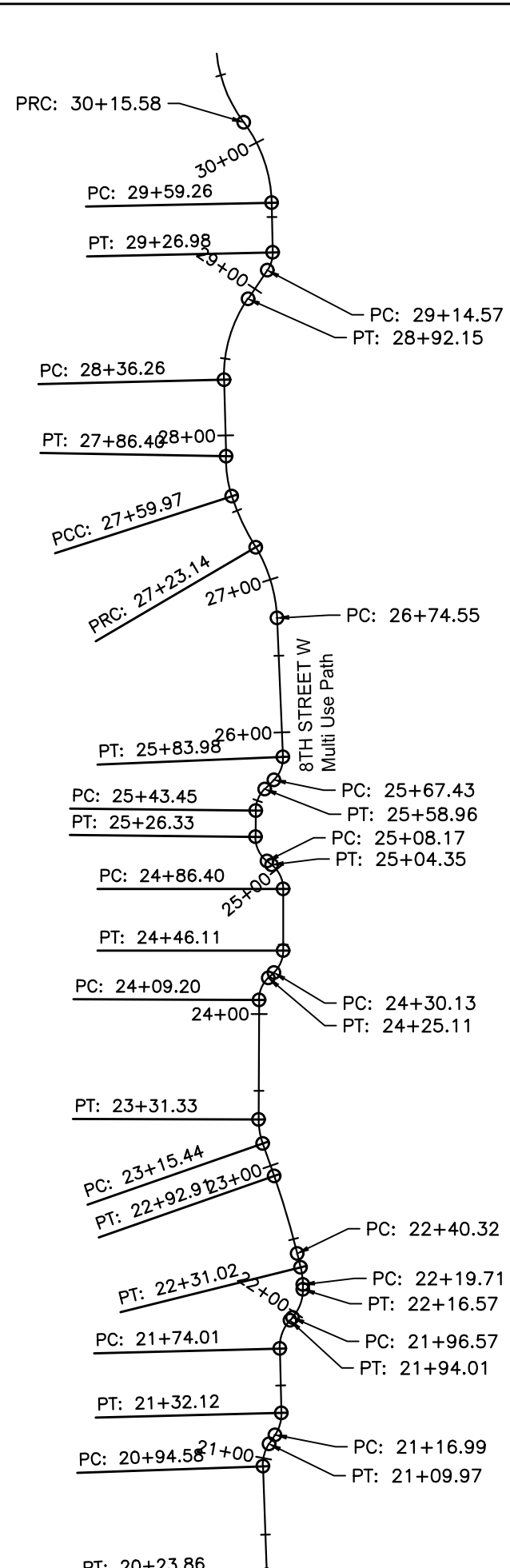
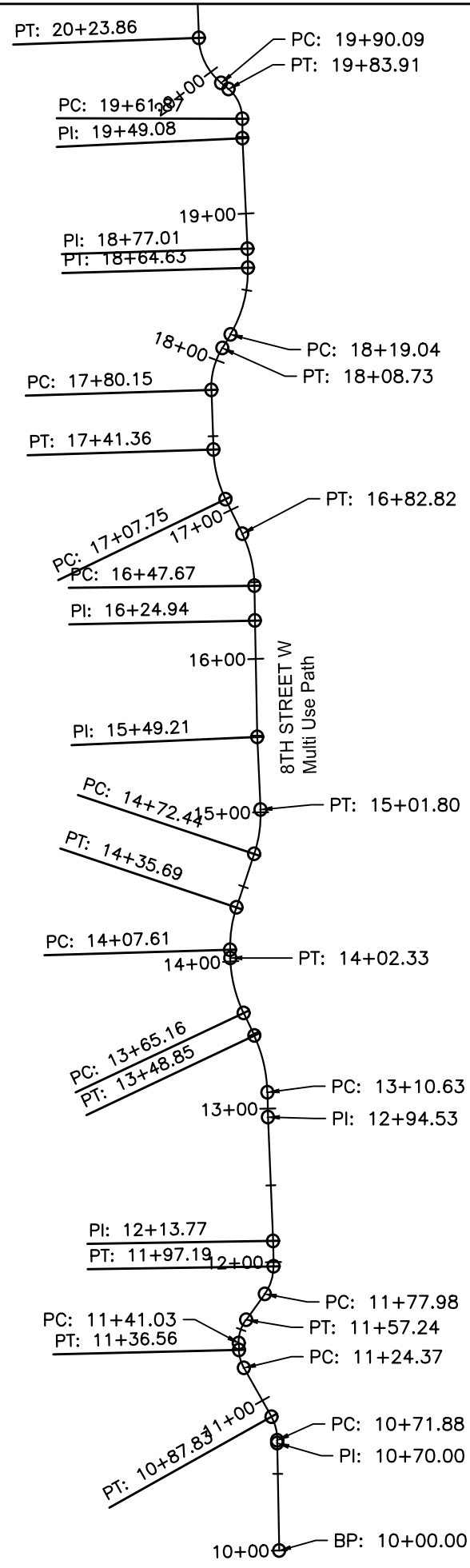


ADA Layout
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W

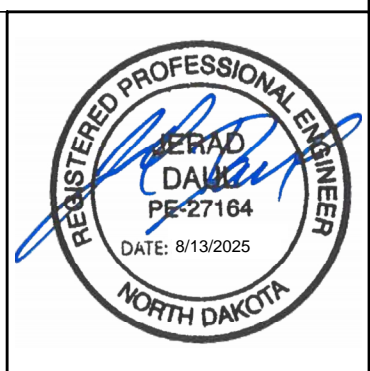


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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	82	1



Alignment Data
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



DATE: 8/13/2025
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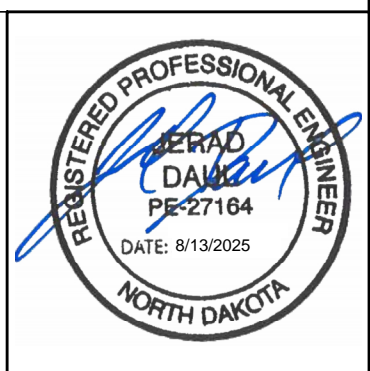
Horizontal Alignment Report

 File: H:\Projects\19000\19229\6063\TechData\Design\Base\ALIGN.dwg
 Report Date: 7/16/2025 9:24:11 AM
 Alignment Name: 8th Street W Multi-Use Path
 Station Range: Start: 10+00.00, End: 39+93.72
 Description:

Begin 8th Street W Multi-Use Path N 456,849.1967 E 2,865,593.3940 10+00.00	EC N 456,999.5484 E 2,865,571.9332 11+57.24 Curve (7)	Direction Back N25° 18' 57.57"W Radius 90.000' Delta 23°39'41"(RT) Length 37.167' Tangent 18.852' Chord Direction N13° 29' 07.02"W Distance 36.904' Direction Ahead N1° 39' 16.47"W
Line (1) N1° 00' 01.01"W 69.999' N 456,919.1850 E 2,865,592.1720 10+70.00 Line (1)	Line (8) N35° 47' 57.04"E 20.743' N 457,016.3722 E 2,865,584.0665 11+77.98 Line (8)	Curve (23) BC N 457,477.8176 E 2,865,577.3824 16+47.67 CTR N 457,476.9041 E 2,865,497.3876 PI N 457,495.6770 E 2,865,577.1785 Direction Back N0° 39' 15.19"W Radius 80.000' Delta 25°10'14"(LT) Length 35.145' Tangent 17.861' Chord Direction N13° 14' 22.36"W Distance 34.863' Direction Ahead N25° 49' 29.53"W
Line (2) N1° 13' 24.79"E 1.878' N 456,921.0621 E 2,865,592.2121 10+71.88 Line (2)	Curve (9) BC N 457,016.3722 E 2,865,584.0665 11+77.98 CTR N 457,033.9206 E 2,865,559.7344 PI N 457,024.4365 E 2,865,589.8825	Line (16) N1° 39' 16.47"W 5.275' N 457,240.5942 E 2,865,561.5001 14+07.61 Line (16)
Curve (3) BC N 456,921.0621 E 2,865,592.2121 10+71.88 CTR N 456,921.7018 E 2,865,562.2609 PI N 456,929.2329 E 2,865,592.3866 Direction Back N1° 13' 24.79"E Radius 29.958' Delta 30°31'06"(LT) Length 15.957' Tangent 8.173' Chord Direction N14° 02' 08.43"W Distance 15.769' Direction Ahead N29° 17' 41.65"W	Direction Back N35° 47' 57.04"E Radius 30.000' Delta 36°40'23"(LT) Length 19.202' Tangent 9.943' Chord Direction N17° 27' 45.57"E Distance 18.876' Direction Ahead N0° 52' 25.90"W	Curve (17) BC N 457,240.5942 E 2,865,561.5001 14+07.61 CTR N 457,242.9041 E 2,865,641.4668 PI N 457,254.7775 E 2,865,561.0904
EC N 456,936.3604 E 2,865,588.3877 10+87.83 Curve (3)	EC N 457,034.3781 E 2,865,589.7309 11+97.19 Curve (9)	Direction Back N1° 39' 16.47"W Radius 80.000' Delta 20°06'56"(RT) Length 28.086' Tangent 14.189' Chord Direction N8° 24' 11.37"E Distance 27.942' Direction Ahead N18° 27' 39.22"E
Line (4) N29° 17' 41.65"W 36.532' N 456,968.2206 E 2,865,570.5123 11+24.37 Line (4)	Line (11) **Non-Tangent** Radial Bearing N89° 07' 34.10"E N2° 22' 04.97"W 80.763' N 457,131.6500 E 2,865,586.1410 12+94.53 Line (11)	Curve (25) BC N 457,534.1934 E 2,865,558.5383 17+07.75 CTR N 457,569.0431 E 2,865,630.5487 PI N 457,549.5467 E 2,865,551.1080 Direction Back N25° 49' 29.53"W Radius 80.000' Delta 24°04'18"(RT) Length 33.610' Tangent 17.057' Chord Direction N13° 47' 20.60"W Distance 33.364' Direction Ahead N1° 45' 11.68"W
Curve (5) BC N 456,968.2206 E 2,865,570.5123 11+24.37 CTR N 456,980.4532 E 2,865,592.3152 PI N 456,973.6460 E 2,865,567.4684 Direction Back N29° 17' 41.65"W Radius 25.000' Delta 27°56'51"(RT) Length 12.194' Tangent 6.221' Chord Direction N15° 19' 16.20"W Distance 12.074' Direction Ahead N1° 20' 50.74"W	Line (12) **Non-Tangent** Radial Bearing N89° 07' 34.10"E N0° 59' 09.42"W 16.104' N 457,147.7520 E 2,865,585.8639 13+10.63 Line (12)	Line (18) N18° 27' 39.22"E 36.750' N 457,303.0952 E 2,865,577.2206 14+72.44 Line (18)
EC N 456,979.8653 E 2,865,567.3221 11+36.56 Curve (5)	Curve (13) BC N 457,147.7520 E 2,865,585.8639 13+10.63 CTR N 457,146.2034 E 2,865,495.8772 PI N 457,167.1503 E 2,865,585.5300	Curve (19) BC N 457,303.0952 E 2,865,577.2206 14+72.44 CTR N 457,328.4277 E 2,865,501.3374 PI N 457,317.1750 E 2,865,581.9210
Line (6) N1° 20' 50.74"W 4.473' N 456,984.3369 E 2,865,567.2169 11+41.03 Line (6)	Direction Back N0° 59' 09.42"W Radius 90.000' Delta 24°19'48"(LT) Length 38.218' Tangent 19.401' Chord Direction N13° 09' 03.49"W Distance 37.931' Direction Ahead N25° 18' 57.57"W	Direction Back N18° 27' 39.22"E Radius 80.000' Delta 21°01'23"(LT) Length 29.354' Tangent 14.844' Chord Direction N7° 56' 57.89"E Distance 29.189' Direction Ahead N2° 33' 43.45"W
Curve (7) BC N 456,984.3369 E 2,865,567.2169 11+41.03 CTR N 456,984.9247 E 2,865,592.2100 PI N 456,992.7350 E 2,865,567.0194 Direction Back N1° 20' 50.74"W Radius 25.000' Delta 37°08'48"(RT) Length 16.208' Tangent 8.400' Chord Direction N17° 13' 33.15"E Distance 15.926' Direction Ahead N35° 47' 57.04"E	EC N 457,184.6883 E 2,865,577.2339 13+48.85 Curve (13)	EC N 457,332.0039 E 2,865,581.2575 15+01.80 Curve (19)
	Line (14) N25° 18' 57.57"W 16.313' N 457,199.4347 E 2,865,570.2583 13+65.16 Line (14)	Line (20) N2° 33' 43.45"W 47.414' N 457,379.3700 E 2,865,579.1380 15+49.21 Line (20)
	Curve (15) BC N 457,199.4347 E 2,865,570.2583 13+65.16 CTR N 457,237.9196 E 2,865,651.6149 PI N 457,216.4765 E 2,865,562.1968	Line (21) **Non-Tangent** Radial Bearing N87° 26' 16.55"E N1° 07' 54.86"W 75.731' N 457,455.0860 E 2,865,577.6420 16+24.94 Line (21)
		Line (22) **Non-Tangent** Radial Bearing N87° 26' 16.55"E N0° 39' 15.19"W 22.733' N 457,477.8176 E 2,865,577.3824 16+47.67 Line (22)

Curve (23) BC N 457,477.8176 E 2,865,577.3824 16+47.67 CTR N 457,476.9041 E 2,865,497.3876 PI N 457,495.6770 E 2,865,577.1785 Direction Back N0° 39' 15.19"W Radius 80.000' Delta 25°10'14"(LT) Length 35.145' Tangent 17.861' Chord Direction N13° 14' 22.36"W Distance 34.863' Direction Ahead N25° 49' 29.53"W	EC N 457,511.7539 E 2,865,569.3980 16+82.82 Curve (23)	Line (24) N25° 49' 29.53"W 24.929' N 457,534.1934 E 2,865,558.5383 17+07.75 Line (24)
Curve (25) BC N 457,534.1934 E 2,865,558.5383 17+07.75 CTR N 457,569.0431 E 2,865,630.5487 PI N 457,549.5467 E 2,865,551.1080 Direction Back N25° 49' 29.53"W Radius 80.000' Delta 24°04'18"(RT) Length 33.610' Tangent 17.057' Chord Direction N13° 47' 20.60"W Distance 33.364' Direction Ahead N1° 45' 11.68"W	EC N 457,566.5955 E 2,865,550.5862 17+41.36 Curve (25)	Line (26) N1° 45' 11.68"W 38.792' N 457,605.3697 E 2,865,549.3993 17+80.15 Line (26)
Curve (27) BC N 457,605.3697 E 2,865,549.3993 17+80.15 CTR N 457,606.8995 E 2,865,599.3759 PI N 457,620.0529 E 2,865,548.9499 Direction Back N1° 45' 11.68"W Radius 50.000' Delta 32°44'44"(RT) Length 28.576' Tangent 14.690' Chord Direction N14° 37' 10.56"E Distance 28.189' Direction Ahead N30° 59' 32.81"E		

Alignment Data
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



DATE: 8/13/2025
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 24:55 (LUS: TGCd) | C:\Users\effichem\AppData\Local\Temp\2024\enu\

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
Direction Back N30° 59' 32.81"E Radius 80.000' Delta 32°39'00"(LT) Length 45.588' Tangent 23.432' Chord Direction N14° 40' 02.57"E Distance 44.974' Direction Ahead N1° 39' 27.67"W EC N 457,684.9928 E 2,865,573.2112 18+64.63 Curve (29) Line (30) N1° 39' 27.67"W 12.381' N 457,697.3690 E 2,865,572.8530 18+77.01 Line (30) Line (31) **Non-Tangent** Radial Bearing N88° 20' 32.33"E N2° 40' 48.30"W 72.078' N 457,769.3682 E 2,865,569.4827 19+49.08 Line (31) Line (32) **Non-Tangent** Radial Bearing N88° 20' 32.33"E N0° 05' 36.20"E 12.787' N 457,782.1553 E 2,865,569.5035 19+61.87 Line (32) Curve (33) BC N 457,782.1553 E 2,865,569.5035 19+61.87 CTR N 457,782.1960 E 2,865,544.5036 PI N 457,793.9485 E 2,865,569.5228 Direction Back N0° 05' 36.20"E Radius 25.000' Delta 50°30'33"(LT) Length 22.039' Tangent 11.793' Chord Direction N25° 09' 40.37"W Distance 21.332' Direction Ahead N50° 24' 56.93"W EC N 457,801.4632 E 2,865,560.4338 19+83.91 Curve (33) Line (34) N50° 24' 56.93"W 6.176' N 457,805.3984 E 2,865,555.6743 19+90.09 Line (34) Curve (35) BC N 457,805.3984 E 2,865,555.6743 19+90.09 CTR N 457,836.2260 E 2,865,581.1628 PI N 457,816.8474 E 2,865,541.8272 Direction Back N50° 24' 56.93"W Radius 40.000' Delta 48°22'39"(RT) Length 33.774' Tangent 17.967' Chord Direction N26° 13' 37.55"W Distance 32.779' Direction Ahead N2° 02' 18.18"W EC N 457,834.8032 E 2,865,541.1881 20+23.86 Curve (35) Line (36) N2° 02' 18.18"W 70.722' N 457,905.4807 E 2,865,538.6726 20+94.58 Line (36) Curve (37) BC N 457,905.4807 E 2,865,538.6726 20+94.58 CTR N 457,906.3699 E 2,865,563.6568 PI N 457,913.4205 E 2,865,538.3900 Direction Back N2° 02' 18.18"W Radius 25.000' Delta 35°15'36"(RT) Length 15.385' Tangent 7.945' Chord Direction N15° 35' 30.00"E Distance 15.143' Direction Ahead N33° 13' 18.17"E	EC N 457,920.0669 E 2,865,542.7428 21+09.97 Curve (37) Line (38) N33° 13' 18.17"E 7.021' N 457,925.9401 E 2,865,546.5893 21+16.99 Line (38) Curve (39) BC N 457,925.9401 E 2,865,546.5893 21+16.99 CTR N 457,939.6371 E 2,865,525.6754 PI N 457,932.4693 E 2,865,550.8654 Direction Back N33° 13' 18.17"E Radius 25.000' Delta 34°40'34"(LT) Length 15.130' Tangent 7.805' Chord Direction N15° 53' 01.26"E Distance 14.900' Direction Ahead N1° 27' 15.66"W EC N 457,940.2716 E 2,865,550.6673 21+32.12 Curve (39) Line (40) N1° 27' 15.66"W 41.893' N 457,982.1513 E 2,865,549.6041 21+74.01 Line (40) Curve (41) BC N 457,982.1513 E 2,865,549.6041 21+74.01 CTR N 457,982.8294 E 2,865,576.3122 PI N 457,992.6426 E 2,865,549.3377 Direction Back N1° 27' 15.66"W Radius 26.717' Delta 42°53'28"(RT) Length 20.000' Tangent 10.495' Chord Direction N19° 59' 28.58"E Distance 19.536' Direction Ahead N41° 26' 12.82"E EC N 458,000.5104 E 2,865,556.2831 21+94.01 Curve (41) Line (42) N41° 26' 12.82"E 2.561' N 458,002.4307 E 2,865,557.9782 21+96.57 Line (42) Curve (43) BC N 458,002.4307 E 2,865,557.9782 21+96.57 CTR N 458,020.3097 E 2,865,537.7248 PI N 458,010.2898 E 2,865,564.9159 Direction Back N41° 26' 12.82"E Radius 27.016' Delta 42°24'59"(LT) Length 20.000' Tangent 10.483' Chord Direction N20° 13' 43.53"E Distance 19.546' Direction Ahead N0° 58' 45.77"W EC N 458,020.7714 E 2,865,564.7368 22+16.57 Curve (43) Line (44) N0° 58' 45.77"W 3.142' N 458,023.9128 E 2,865,564.6831 22+19.71 Line (44) Curve (45) BC N 458,023.9128 E 2,865,564.6831 22+19.71 CTR N 458,023.0582 E 2,865,514.6904 PI N 458,029.5900 E 2,865,564.5860	Direction Back N0° 58' 45.77"W Radius 50.000' Delta 12°57'28"(LT) Length 11.308' Tangent 5.678' Chord Direction N7° 27' 29.57"W Distance 11.284' Direction Ahead N13° 56' 13.37"W EC N 458,035.1009 E 2,865,563.2184 22+31.02 Curve (45) Line (46) N13° 56' 13.37"W 9.303' N 458,044.1296 E 2,865,560.9778 22+40.32 Line (46) Curve (47) BC N 458,044.1296 E 2,865,560.9778 22+40.32 CTR N 457,907.7155 E 2,865,011.2783 PI N 458,069.6657 E 2,865,554.6408 Direction Back N13° 56' 13.37"W Radius 566.373' Delta 5°19'10"(LT) Length 52.583' Tangent 26.311' Chord Direction N16° 35' 48.42"W Distance 52.564' Direction Ahead N19° 15' 23.47"W EC N 458,094.5042 E 2,865,545.9636 22+92.91 Curve (47) Line (48) N19° 15' 23.47"W 22.535' N 458,115.7786 E 2,865,538.5315 23+15.44 Line (48) Curve (49) BC N 458,115.7786 E 2,865,538.5315 23+15.44 CTR N 458,131.2158 E 2,865,582.7207 PI N 458,123.3513 E 2,865,535.8861 Direction Back N19° 15' 23.47"W Radius 46.808' Delta 19°26'55"(RT) Length 15.889' Tangent 8.021' Chord Direction N9° 31' 56.10"W Distance 15.812' Direction Ahead N0° 11' 31.28"E EC N 458,131.3727 E 2,865,535.9130 23+31.33 Curve (49) Line (50) N0° 11' 31.28"E 77.868' N 458,209.2403 E 2,865,536.1739 24+09.20 Line (50) Curve (51) BC N 458,209.2403 E 2,865,536.1739 24+09.20 CTR N 458,209.1733 E 2,865,556.1738 PI N 458,217.6415 E 2,865,536.2021 Direction Back N0° 11' 31.28"E Radius 20.000' Delta 45°34'14"(RT) Length 15.907' Tangent 8.401' Chord Direction N22° 58' 38.50"E Distance 15.491' Direction Ahead N45° 45' 45.73"E EC N 458,223.5024 E 2,865,542.2212 24+25.11 Curve (51) Line (52) N45° 45' 45.73"E 5.025' N 458,227.0079 E 2,865,545.8213 24+30.13 Line (52)	Curve (53) BC N 458,227.0079 E 2,865,545.8213 24+30.13 CTR N 458,241.3370 E 2,865,531.8686 PI N 458,232.8964 E 2,865,551.8686 Direction Back N45° 45' 45.73"E Radius 20.000' Delta 45°45'46"(LT) Length 15.974' Tangent 8.441' Chord Direction N22° 52' 52.87"E Distance 15.553' Direction Ahead N0° 00' 00.00"E EC N 458,241.3370 E 2,865,551.8686 24+46.11 Curve (53) Line (54) N0° 00' 00.00"E 40.291' N 458,281.6283 E 2,865,551.8686 24+86.40 Line (54) Curve (55) BC N 458,281.6283 E 2,865,551.8686 24+86.40 CTR N 458,281.6283 E 2,865,531.8686 PI N 458,291.2612 E 2,865,551.8686 Direction Back N0° 00' 00.00"E Radius 20.000' Delta 51°26'07"(LT) Length 17.954' Tangent 9.633' Chord Direction N25° 43' 03.50"W Distance 17.357' Direction Ahead N51° 26' 07.00"W EC N 458,297.2664 E 2,865,544.3366 25+04.35 Curve (55) Line (56) N51° 26' 07.00"W 3.821' N 458,299.6486 E 2,865,541.3487 25+08.17 Line (56) Curve (57) BC N 458,299.6486 E 2,865,541.3487 25+08.17 CTR N 458,315.2867 E 2,865,553.8167 PI N 458,305.7318 E 2,865,533.7187 Direction Back N51° 26' 07.00"W Radius 20.000' Delta 52°01'00"(RT) Length 18.157' Tangent 9.758' Chord Direction N25° 25' 36.94"W Distance 17.540' Direction Ahead N0° 34' 53.13"E EC N 458,315.4896 E 2,865,533.8177 25+26.33 Curve (57) Line (58) N0° 34' 53.13"E 17.122' N 458,332.6103 E 2,865,533.9915 25+43.45 Line (58)

Alignment Data
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



DATE: 8/13/2025
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HV\Projects\19000\19223\0663\TechData\Design\Plan\0625D_001.dwg:0625D_004

Curve (53)
BC N 458,227.0079 E 2,865,545.8213 24+30.13
CTR N 458,241.3370 E 2,865,531.8686
PI N 458,232.8964 E 2,865,551.8686

Direction Back N45° 45' 45.73"E
Radius 20.000'
Delta 45°45'46"(LT)
Length 15.974'
Tangent 8.441'
Chord Direction N22° 52' 52.87"E Distance 15.553'
Direction Ahead N0° 00' 00.00"E

EC N 458,241.3370 E 2,865,551.8686 24+46.11
Curve (53)

Line (54)
N0° 00' 00.00"E 40.291'
N 458,281.6283 E 2,865,551.8686 24+86.40
Line (54)

Curve (55)
BC N 458,281.6283 E 2,865,551.8686 24+86.40
CTR N 458,281.6283 E 2,865,531.8686
PI N 458,291.2612 E 2,865,551.8686

Direction Back N0° 00' 00.00"E
Radius 20.000'
Delta 51°26'07"(LT)
Length 17.954'
Tangent 9.633'
Chord Direction N25° 43' 03.50"W Distance 17.357'
Direction Ahead N51° 26' 07.00"W

EC N 458,297.2664 E 2,865,544.3366 25+04.35
Curve (55)

Line (56)
N51° 26' 07.00"W 3.821'
N 458,299.6486 E 2,865,541.3487 25+08.17
Line (56)

Curve (57)
BC N 458,299.6486 E 2,865,541.3487 25+08.17
CTR N 458,315.2867 E 2,865,553.8167
PI N 458,305.7318 E 2,865,533.7187

Direction Back N51° 26' 07.00"W
Radius 20.000'
Delta 52°01'00"(RT)
Length 18.157'
Tangent 9.758'
Chord Direction N25° 25' 36.94"W Distance 17.540'
Direction Ahead N0° 34' 53.13"E

EC N 458,315.4896 E 2,865,533.8177 25+26.33
Curve (57)

Line (58)
N0° 34' 53.13"E 17.122'
N 458,332.6103 E 2,865,533.9915 25+43.45
Line (58)

Curve (59)
BC N 458,332.6103 E 2,865,533.9915 25+43.45
CTR N 458,332.4073 E 2,865,553.9904
PI N 458,340.7783 E 2,865,534.0743

Direction Back N0° 34' 53.13"E
Radius 20.000'
Delta 44°25'56"(RT)
Length 15.510'
Tangent 8.168'
Chord Direction N22° 47' 51.37"E Distance 15.124'
Direction Ahead N45° 00' 49.61"E

EC N 458,346.5528 E 2,865,539.8517 25+58.96
Curve (59)

Line (60)
N45° 00' 49.61"E 8.468'
N 458,352.5395 E 2,865,545.8412 25+67.43
Line (60)

Line (60)
Curve (61)
BC N 458,352.5395 E 2,865,545.8412 25+67.43
CTR N 458,366.6851 E 2,865,531.7025
PI N 458,358.7472 E 2,865,552.0519

Direction Back N45° 00' 49.61"E
Radius 20.000'
Delta 47°24'30"(LT)
Length 16.549'
Tangent 8.781'
Chord Direction N21° 18' 34.48"E Distance 16.081'
Direction Ahead N2° 23' 40.65"W

EC N 458,367.5207 E 2,865,551.6850 25+83.98
Curve (61)

Line (62)
N2° 23' 40.65"W 90.567'
N 458,458.0087 E 2,865,547.9010 26+74.55
Line (62)

Non-Tangent Radial Bearing N86° 59' 32.02"E
Curve (63)
BC N 458,458.0087 E 2,865,547.9010 26+74.55
CTR N 458,452.6702 E 2,865,446.3009
PI N 458,482.7429 E 2,865,546.6013

Direction Back N3° 00' 27.98"W
Radius 101.740'
Delta 27°21'53"(LT)
Length 48.591'
Tangent 24.768'
Chord Direction N16° 41' 24.38"W Distance 48.131'
Direction Ahead N30° 22' 20.77"W

EC N 458,504.1120 E 2,865,534.0780 27+23.14
Curve (63)

Reversing Curve
Non-Tangent Radial Bearing S57° 19' 44.53"W
Curve (64)
BC N 458,504.1120 E 2,865,534.0780 27+23.14
CTR N 458,581.1819 E 2,865,654.2606
PI N 458,519.7030 E 2,865,524.0799

Direction Back N32° 40' 15.47"W
Radius 142.771'
Delta 14°46'59"(RT)
Length 36.837'
Tangent 18.521'
Chord Direction N25° 16' 45.86"W Distance 36.735'
Direction Ahead N17° 53' 16.26"W

EC N 458,537.3290 E 2,865,518.3910 27+59.97
Curve (64)

Compound Curve
Non-Tangent Radial Bearing S72° 30' 17.32"W
Curve (65)
BC N 458,537.3290 E 2,865,518.3910 27+59.97
CTR N 458,561.9375 E 2,865,596.4621
PI N 458,550.0427 E 2,865,514.3836

Direction Back N17° 29' 42.68"W
Radius 81.858'
Delta 18°29'55"(RT)
Length 26.429'
Tangent 13.330'
Chord Direction N8° 14' 45.18"W Distance 26.314'
Direction Ahead N1° 00' 12.32"E

EC N 458,563.3710 E 2,865,514.6170 27+86.40
Curve (65)

Line (66)
Non-Tangent Radial Bearing N88° 59' 47.68"W
N1° 26' 59.80"W 49.855'
N 458,613.2097 E 2,865,513.3555 28+36.26
Line (66)

Non-Tangent Radial Bearing S88° 39' 37.66"W
Curve (67)
BC N 458,613.2097 E 2,865,513.3555 28+36.26
CTR N 458,615.3136 E 2,865,603.3309
PI N 458,642.0794 E 2,865,512.6804

Direction Back N1° 20' 22.34"W
Radius 90.000'
Delta 35°34'44"(RT)
Length 55.887'
Tangent 28.878'
Chord Direction N16° 26' 59.87"E Distance 54.994'
Direction Ahead N34° 14' 22.08"E

EC N 458,665.9524 E 2,865,528.9285 28+92.15
Curve (67)

Line (68)
Non-Tangent Radial Bearing N55° 45' 37.92"W
N34° 14' 39.19"E 22.426'
N 458,684.4912 E 2,865,541.5484 29+14.57
Line (68)

Curve (69)
BC N 458,684.4912 E 2,865,541.5484 29+14.57
CTR N 458,695.7456 E 2,865,525.0154
PI N 458,689.7897 E 2,865,545.1553

Direction Back N34° 14' 39.19"E
Radius 20.000'
Delta 35°32'23"(LT)
Length 12.406'
Tangent 6.410'
Chord Direction N16° 28' 27.48"E Distance 12.208'
Direction Ahead N1° 17' 44.24"W

EC N 458,696.1978 E 2,865,545.0103 29+26.98
Curve (69)

Line (70)
N1° 17' 44.24"W 32.281'
N 458,728.4704 E 2,865,544.2804 29+59.26
Line (70)

Non-Tangent Radial Bearing N88° 49' 03.36"E
Curve (71)
BC N 458,728.4704 E 2,865,544.2804 29+59.26
CTR N 458,726.6132 E 2,865,454.2996
PI N 458,757.5806 E 2,865,543.6796

Direction Back N1° 10' 56.64"W
Radius 90.000'
Delta 35°51'16"(LT)
Length 56.320'
Tangent 29.116'
Chord Direction N19° 06' 34.54"W Distance 55.405'
Direction Ahead N37° 02' 12.45"W

EC N 458,780.8227 E 2,865,526.1420 30+15.58
Curve (71)

Reversing Curve
Curve (72)
BC N 458,780.8227 E 2,865,526.1420 30+15.58
CTR N 458,835.0322 E 2,865,597.9844
PI N 458,803.9738 E 2,865,508.6731

Direction Back N37° 02' 12.45"W
Radius 90.000'
Delta 35°43'23"(RT)
Length 56.113'
Tangent 29.002'
Chord Direction N19° 10' 31.15"W Distance 55.209'
Direction Ahead N1° 18' 49.86"W

EC N 458,832.9686 E 2,865,508.0081 30+71.69
Curve (72)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	82	4

Line (73)
N1° 18' 49.86"W 28.264'
N 458,861.2250 E 2,865,507.3600 30+99.96
Line (73)

Non-Tangent Radial Bearing S86° 28' 20.59"W
Curve (74)
BC N 458,861.2250 E 2,865,507.3600 30+99.96
CTR N 458,883.1278 E 2,865,862.6576
PI N 458,891.6273 E 2,865,505.4858

Direction Back N3° 31' 39.41"W
Radius 355.972'
Delta 9°46'54"(RT)
Length 60.772'
Tangent 30.460'
Chord Direction N1° 21' 47.47"E Distance 60.698'
Direction Ahead N6° 15' 14.35"E

EC N 458,921.9060 E 2,865,508.8040 31+60.73
Curve (74)

Compound Curve
Non-Tangent Radial Bearing N76° 46' 47.72"W
Curve (75)
BC N 458,921.9060 E 2,865,508.8040 31+60.73
CTR N 458,835.6436 E 2,865,876.0068
PI N 458,951.4975 E 2,865,515.7556

Direction Back N13° 13' 12.28"E
Radius 377.199'
Delta 9°12'53"(RT)
Length 60.663'
Tangent 30.397'
Chord Direction N17° 49' 38.55"E Distance 60.598'
Direction Ahead N22° 26' 04.83"E

EC N 458,979.5940 E 2,865,527.3560 32+21.39
Curve (75)

Reversing Curve
Non-Tangent Radial Bearing S63° 10' 02.52"E
Curve (76)
BC N 458,979.5940 E 2,865,527.3560 32+21.39
CTR N 459,025.2329 E 2,865,437.1340
PI N 459,004.4672 E 2,865,539.9381

Direction Back N26° 49' 57.48"E
Radius 101.108'
Delta 30°49'33"(LT)
Length 54.398'
Tangent 27.874'
Chord Direction N11° 25' 10.91"E Distance 53.744'
Direction Ahead N3° 59' 35.66"W

EC N 459,032.2740 E 2,865,537.9970 32+75.79
Curve (76)

Alignment Data
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



Non-Tangent Radial Bearing S63° 10' 02.52"E
 Curve (76)
 BC N 458,979.5940 E 2,865,527.3560 32+21.39
 CTR N 459,025.2329 E 2,865,437.1340
 PI N 459,004.4672 E 2,865,539.9381

Direction Back N26° 49' 57.48"E
 Radius 101.108'
 Delta 30°49'33"(LT)
 Length 54.398'
 Tangent 27.874'
 Chord Direction N11° 25' 10.91"E Distance 53.744'
 Direction Ahead N3° 59' 35.66"W

EC N 459,032.2740 E 2,865,537.9970 32+75.79
 Curve (76)

Line (77)
 Non-Tangent Radial Bearing N86° 00' 24.34"E
 N0° 37' 41.73"W 111.433'
 N 459,143.7005 E 2,865,536.7751 33+87.22
 Line (77)

Curve (78)
 BC N 459,143.7005 E 2,865,536.7751 33+87.22
 CTR N 459,143.4812 E 2,865,516.7763
 PI N 459,153.1309 E 2,865,536.6717

Direction Back N0° 37' 41.73"W
 Radius 20.000'
 Delta 50°29'32"(LT)
 Length 17.625'
 Tangent 9.431'
 Chord Direction N25° 52' 27.67"W Distance 17.060'
 Direction Ahead N51° 07' 13.62"W

EC N 459,159.0506 E 2,865,529.3300 34+04.85
 Curve (78)

Line (79)
 N51° 07' 13.62"W 5.981'
 N 459,162.8049 E 2,865,524.6739 34+10.83
 Line (79)

Curve (80)
 BC N 459,162.8049 E 2,865,524.6739 34+10.83
 CTR N 459,178.3742 E 2,865,537.2276
 PI N 459,168.6775 E 2,865,517.3905

Direction Back N51° 07' 13.62"W
 Radius 20.000'
 Delta 50°08'25"(RT)
 Length 17.502'
 Tangent 9.356'
 Chord Direction N26° 03' 00.89"W Distance 16.949'
 Direction Ahead N0° 58' 48.16"W

EC N 459,178.0322 E 2,865,517.2305 34+28.33
 Curve (80)

Line (81)
 N0° 58' 48.16"W 93.042'
 N 459,271.0609 E 2,865,515.6391 35+21.37
 Line (81)

Curve (82)
 BC N 459,271.0609 E 2,865,515.6391 35+21.37
 CTR N 459,271.5741 E 2,865,545.6347
 PI N 459,283.4305 E 2,865,515.4275

Direction Back N0° 58' 48.16"W
 Radius 30.000'
 Delta 44°49'13"(RT)
 Length 23.468'
 Tangent 12.371'
 Chord Direction N21° 25' 48.43"E Distance 22.874'
 Direction Ahead N43° 50' 25.02"E

EC N 459,292.3536 E 2,865,523.9965 35+44.84
 Curve (82)

Line (83)
 N43° 50' 25.02"E 4.366'
 N 459,295.5024 E 2,865,527.0204 35+49.21
 Line (83)

Curve (84)
 BC N 459,295.5024 E 2,865,527.0204 35+49.21
 CTR N 459,309.3555 E 2,865,512.5949
 PI N 459,301.4512 E 2,865,532.7331

Direction Back N43° 50' 25.02"E
 Radius 20.000'
 Delta 44°49'13"(LT)
 Length 15.645'
 Tangent 8.248'
 Chord Direction N21° 25' 48.43"E Distance 15.249'
 Direction Ahead N0° 58' 48.16"W

EC N 459,309.6975 E 2,865,532.5920 35+64.85
 Curve (84)

Line (85)
 N0° 58' 48.16"W 73.675'
 N 459,383.3618 E 2,865,531.3319 36+38.53
 Line (85)

Curve (86)
 BC N 459,383.3618 E 2,865,531.3319 36+38.53
 CTR N 459,383.0197 E 2,865,511.3348
 PI N 459,393.5367 E 2,865,531.1578

Direction Back N0° 58' 48.16"W
 Radius 20.000'
 Delta 53°56'08"(LT)
 Length 18.827'
 Tangent 10.176'
 Chord Direction N27° 56' 52.15"W Distance 18.140'
 Direction Ahead N54° 54' 56.14"W

EC N 459,399.3859 E 2,865,522.8304 36+57.35
 Curve (86)

Line (87)
 N54° 54' 56.14"W 1.540'
 N 459,400.2710 E 2,865,521.5702 36+58.89
 Line (87)

Curve (88)
 BC N 459,400.2710 E 2,865,521.5702 36+58.89
 CTR N 459,416.6372 E 2,865,533.0659
 PI N 459,406.0070 E 2,865,513.4040

Direction Back N54° 54' 56.14"W
 Radius 20.000'
 Delta 53°02'08"(RT)
 Length 18.513'
 Tangent 9.979'
 Chord Direction N28° 23' 52.09"W Distance 17.859'
 Direction Ahead N1° 52' 48.04"W

EC N 459,415.9810 E 2,865,513.0766 36+77.41
 Curve (88)

Line (89)
 N1° 52' 48.04"W 42.977'
 N 459,458.9345 E 2,865,511.6667 37+20.38
 Line (89)

Curve (90)
 BC N 459,458.9345 E 2,865,511.6667 37+20.38
 CTR N 459,460.5749 E 2,865,561.6398
 PI N 459,468.8432 E 2,865,511.3415

Direction Back N1° 52' 48.04"W
 Radius 50.000'
 Delta 22°25'49"(RT)
 Length 19.574'
 Tangent 9.914'
 Chord Direction N9° 20' 06.63"E Distance 19.449'
 Direction Ahead N20° 33' 01.31"E

EC N 459,478.1264 E 2,865,514.8216 37+39.96
 Curve (90)

Line (91)
 N20° 33' 01.31"E 28.319'
 N 459,504.6431 E 2,865,524.7624 37+68.28
 Line (91)

Curve (92)
 BC N 459,504.6431 E 2,865,524.7624 37+68.28
 CTR N 459,522.1946 E 2,865,477.9442
 PI N 459,513.6873 E 2,865,528.1530

Direction Back N20° 33' 01.31"E
 Radius 50.000'
 Delta 21°52'02"(LT)
 Length 19.083'
 Tangent 9.659'
 Chord Direction N9° 37' 00.26"E Distance 18.967'
 Direction Ahead N1° 19' 00.79"W

EC N 459,523.3437 E 2,865,527.9310 37+87.36
 Curve (92)

Line (93)
 N1° 19' 00.79"W 5.912'
 N 459,529.2538 E 2,865,527.7951 37+93.27
 Line (93)

Curve (94)
 BC N 459,529.2538 E 2,865,527.7951 37+93.27
 CTR N 459,528.2986 E 2,865,486.2421
 PI N 459,531.3303 E 2,865,527.7474

Direction Back N1° 19' 00.79"W
 Radius 41.564'
 Delta 5°43'17"(LT)
 Length 4.151'
 Tangent 2.077'
 Chord Direction N4° 10' 39.43"W Distance 4.149'
 Direction Ahead N7° 02' 18.08"W

EC N 459,533.3916 E 2,865,527.4929 37+97.42
 Curve (94)

Line (95)
 N7° 02' 18.08"W 8.622'
 N 459,541.9482 E 2,865,526.4364 38+06.04
 Line (95)

Curve (96)
 BC N 459,541.9482 E 2,865,526.4364 38+06.04
 CTR N 459,532.8720 E 2,865,452.9236
 PI N 459,556.8253 E 2,865,524.5996

Direction Back N7° 02' 18.08"W
 Radius 74.071'
 Delta 22°52'53"(LT)
 Length 29.581'
 Tangent 14.990'
 Chord Direction N18° 28' 44.51"W Distance 29.384'
 Direction Ahead N29° 55' 10.94"W

EC N 459,569.8176 E 2,865,517.1228 38+35.62
 Curve (96)

Line (97)
 N29° 55' 10.94"W 27.771'
 N 459,593.8870 E 2,865,503.2713 38+63.39
 Line (97)

Curve (98)
 BC N 459,593.8870 E 2,865,503.2713 38+63.39
 CTR N 459,612.8269 E 2,865,536.1826
 PI N 459,614.2507 E 2,865,491.5523

Direction Back N29° 55' 10.94"W
 Radius 37.972'
 Delta 63°29'38"(RT)
 Length 42.080'

Tangent 23.495'
 Chord Direction N1° 49' 37.81"E Distance 39.959'
 Direction Ahead N33° 34' 26.57"E

EC N 459,633.8260 E 2,865,504.5454 39+05.47
 Curve (98)

Line (99)
 N33° 34' 26.57"E 23.479'
 N 459,653.3881 E 2,865,517.5297 39+28.95
 Line (99)

Curve (100)
 BC N 459,653.3881 E 2,865,517.5297 39+28.95
 CTR N 459,675.0586 E 2,865,484.8810
 PI N 459,663.6590 E 2,865,524.3469

Direction Back N33° 34' 26.57"E
 Radius 39.186'
 Delta 34°55'33"(LT)
 Length 23.887'
 Tangent 12.327'
 Chord Direction N16° 06' 39.88"E Distance 23.519'
 Direction Ahead N1° 21' 06.82"W

EC N 459,675.9831 E 2,865,524.0561 39+52.84
 Curve (100)

Line (101)
 N1° 21' 06.82"W 40.885'
 N 459,716.8572 E 2,865,523.0915 39+93.72
 Line (101)

N 459,716.8572 E 2,865,523.0915 39+93.72
 End 8th Street W Multi-Use Path

 Alignment Length: 2,993.724'

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	82	5

Alignment Data
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5 Sta 10+00 - Sta 21+87	87	CY
722	6160	ADJUST INLET		
		Sta 12+29 - 4' RT	1	EA
		Sta 12+65 - 5' RT	1	EA
		Sta 15+62 - 13' RT	1	EA
		Sta 16+04 - 12' RT	1	EA
		Sta 19+04 - 11' RT	1	EA
		Sta 19+38 - 11' RT	1	EA
748	0140	CURB & GUTTER - TYPE 1		
		Sta 12+20 - Sta 12+32	18	LF
		Sta 12+62 - Sta 12+82	28	LF
		Sta 15+47 - Sta 15+70	32	LF
		Sta 15+97 - Sta 16+20	34	LF
		Sta 18+87 - Sta 19+10	33	LF
		Sta 19+37 - Sta 19+60	33	LF
750	0115	SIDEWALK CONCRETE 4IN Sta 10+00 - Sta 21+87	17	SY
750	0125	SIDEWALK CONCRETE 5IN Sta 10+00 - Sta 21+87	1009	SY
750	0140	SIDEWALK CONCRETE 6IN Sta 10+00 - Sta 21+87	134	SY
750	2115	DETECTABLE WARNING PANELS		
		Sta 12+23	20	SF
		Sta 12+70	20	SF
		Sta 12+78	7	SF
		Sta 15+53	7	SF
		Sta 15+61	20	SF
		Sta 16+04	20	SF
		Sta 16+15	7	SF
		Sta 18+93	7	SF
		Sta 19+01	19	SF
		Sta 19+45	19	SF
		Sta 19+55	7	SF

Legend

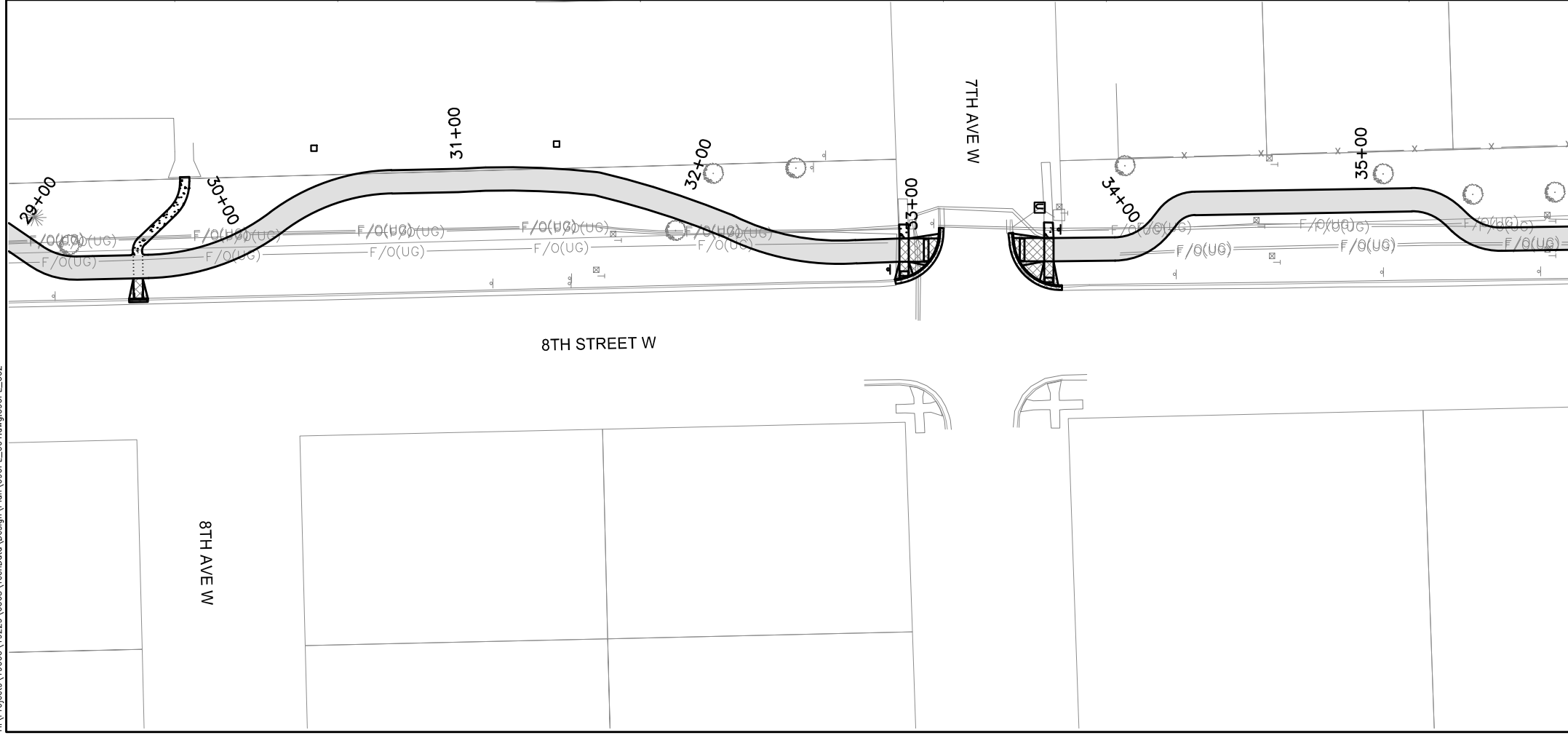
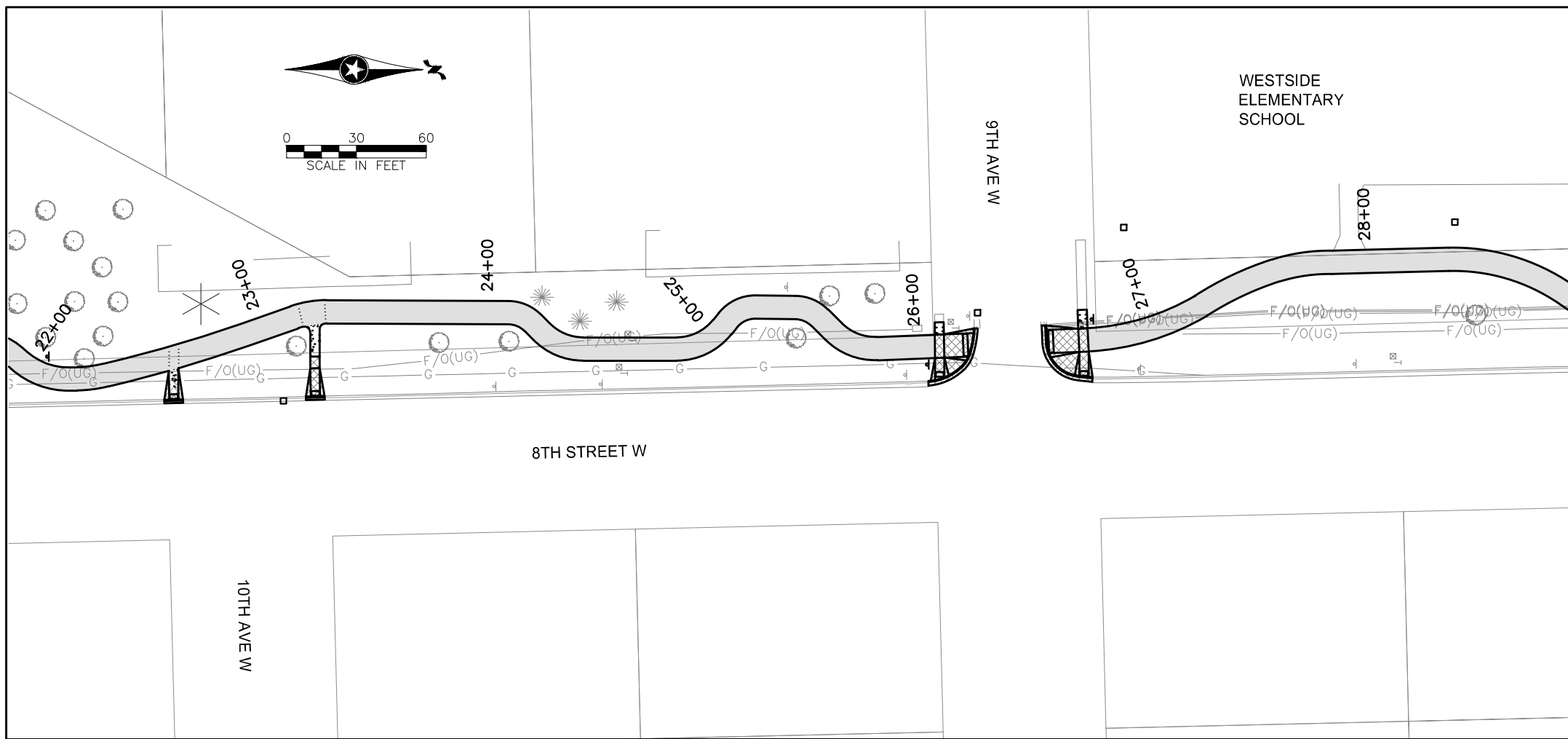
	Sidewalk Concrete 4IN		Sidewalk Concrete 6IN
	Sidewalk Concrete 5IN		Adjust Existing Catch Basin

Paving Layouts
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W



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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	90	2



SPEC CODE	BID ITEM	QTY	UNIT
302 0121	AGGREGATE BASE COURSE CL 5 Sta 21+87 - Sta 35+97	109	CY
748 0140	CURB & GUTTER - TYPE 1		
	Sta 22+52 - Sta 22+60	8	LF
	Sta 23+09 - Sta 23+24	8	LF
	Sta 26+05 - Sta 26+27	35	LF
	Sta 26+55 - Sta 26+75	36	LF
	Sta 29+51 - Sta 29+59	8	LF
	Sta 32+93 - Sta 33+14	33	LF
	Sta 33+41 - Sta 33+64	36	LF
750 0115	SIDEWALK CONCRETE 4IN Sta 21+87 - Sta 35+97	36	SY
750 0125	SIDEWALK CONCRETE 5IN Sta 21+87 - Sta 35+97	1421	SY
750 0140	SIDEWALK CONCRETE 6IN Sta 21+87 - Sta 35+97	148	SY
750 2115	DETECTABLE WARNING PANELS		
	Sta 22+57	7	SF
	Sta 23+13	7	SF
	Sta 26+10	7	SF
	Sta 26+21	19	SF
	Sta 26+59	19	SF
	Sta 26+72	7	SF
	Sta 29+55	7	SF
	Sta 32+97	7	SF
	Sta 33+06	19	SF
	Sta 33+47	19	SF
	Sta 33+59	7	SF

Legend

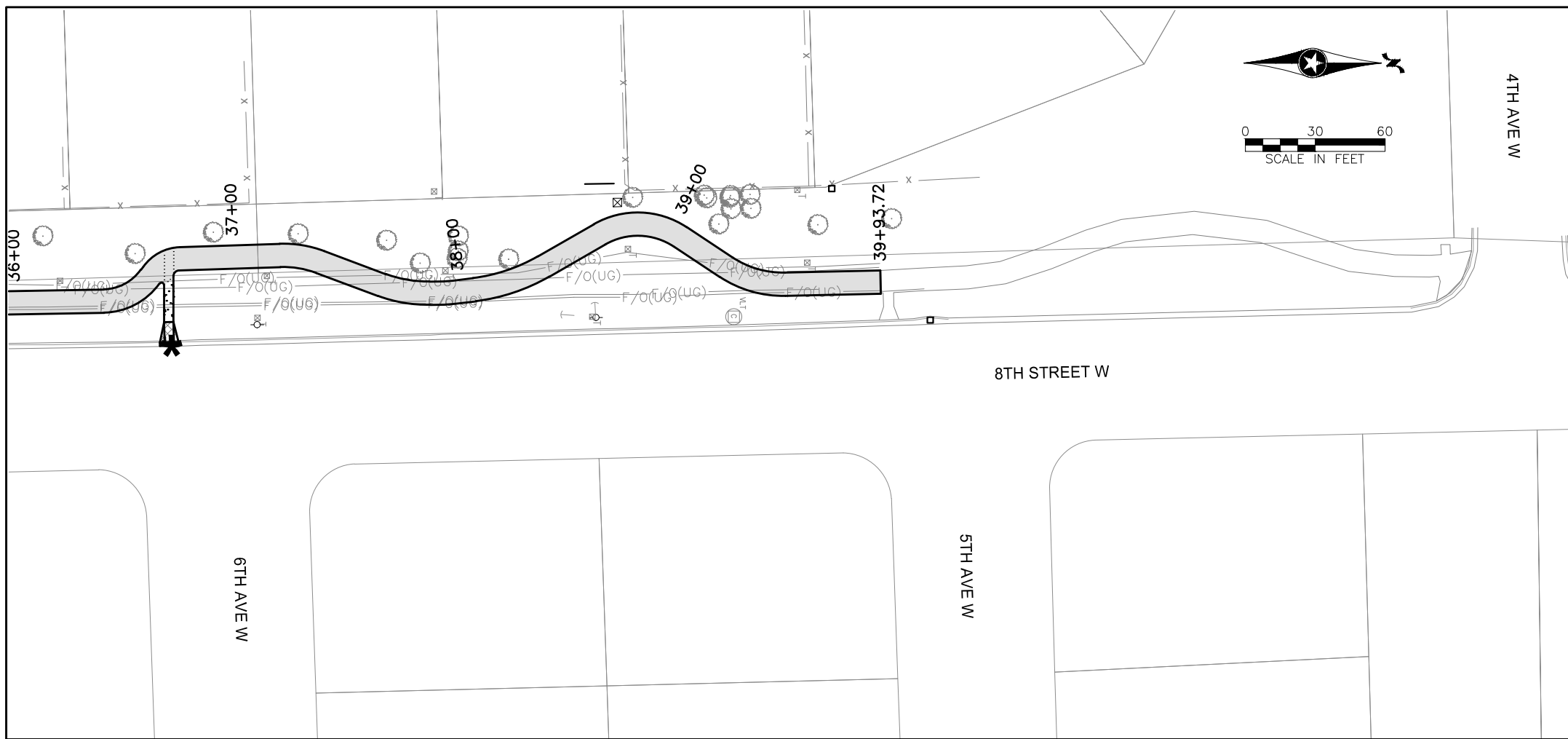
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	Sidewalk Concrete 5IN		Adjust Existing Catch Basin

Paving Layouts
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	90	3



SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5 Sta 35+97 - Sta 39+94	27	CY
722	6160	ADJUST INLET Sta 36+73 - 41' RT	1	EA
748	0140	CURB & GUTTER - TYPE 1 Sta 36+47 - Sta 36+51	8	LF
750	0115	SIDEWALK CONCRETE 4IN Sta 35+97 - Sta 39+94	9	SY
750	0125	SIDEWALK CONCRETE 5IN Sta 35+97 - Sta 39+94	442	SY
750	0140	SIDEWALK CONCRETE 6IN Sta 35+97 - Sta 39+94	6	SY
750	2115	DETECTABLE WARNING PANELS Sta 36+50	7	SF

Legend

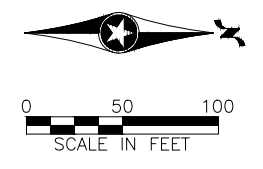
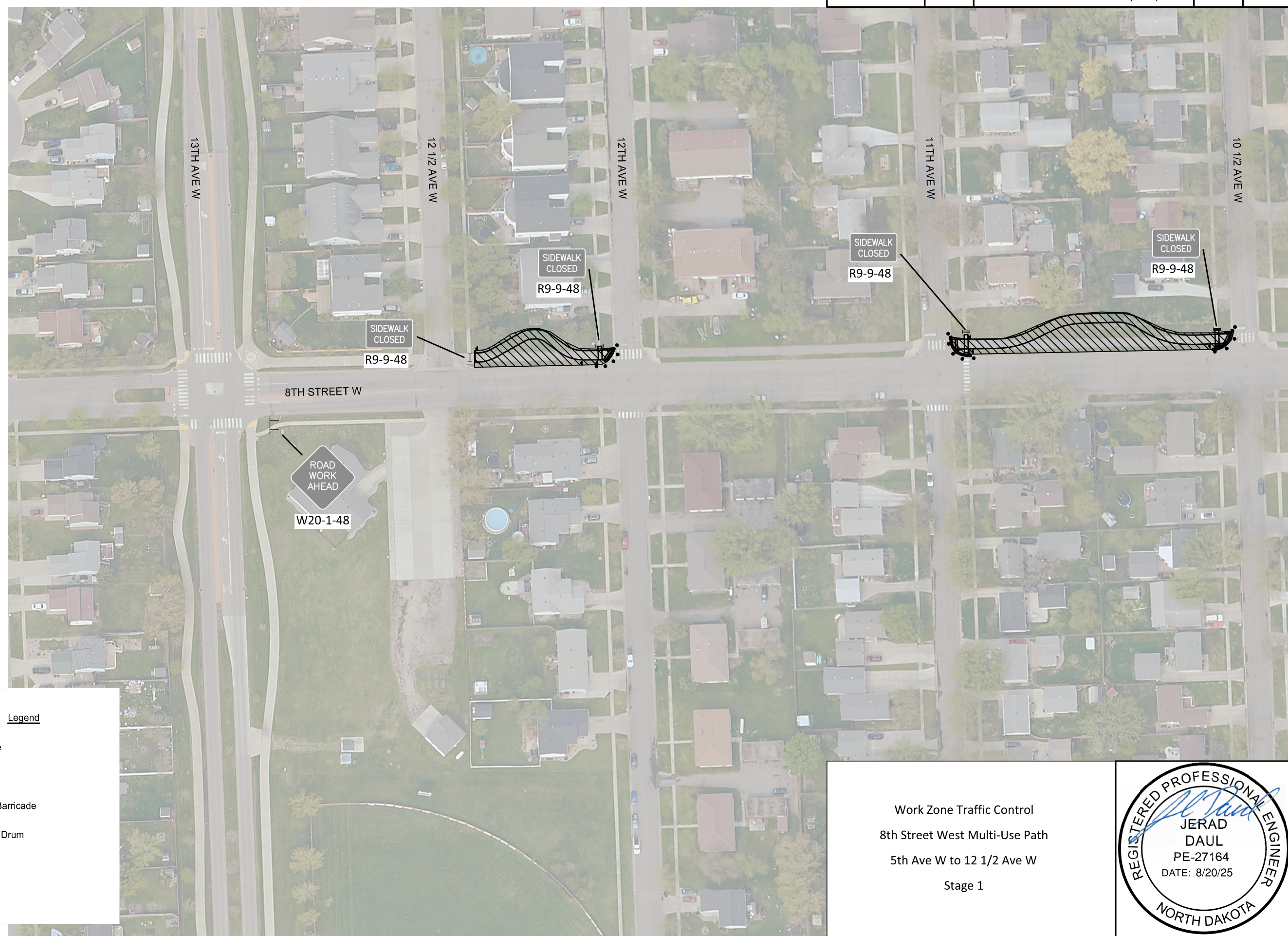
	Sidewalk Concrete 4IN		Sidewalk Concrete 6IN
	Sidewalk Concrete 5IN		Adjust Existing Catch Basin

Paving Layouts
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W







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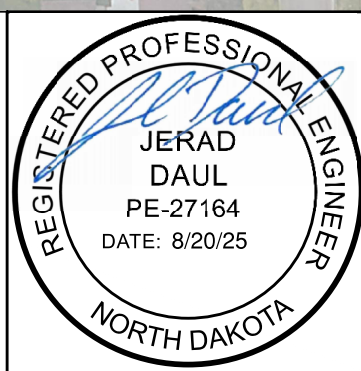
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ND	TMA-CRP-TA-8-992(056)	100	2



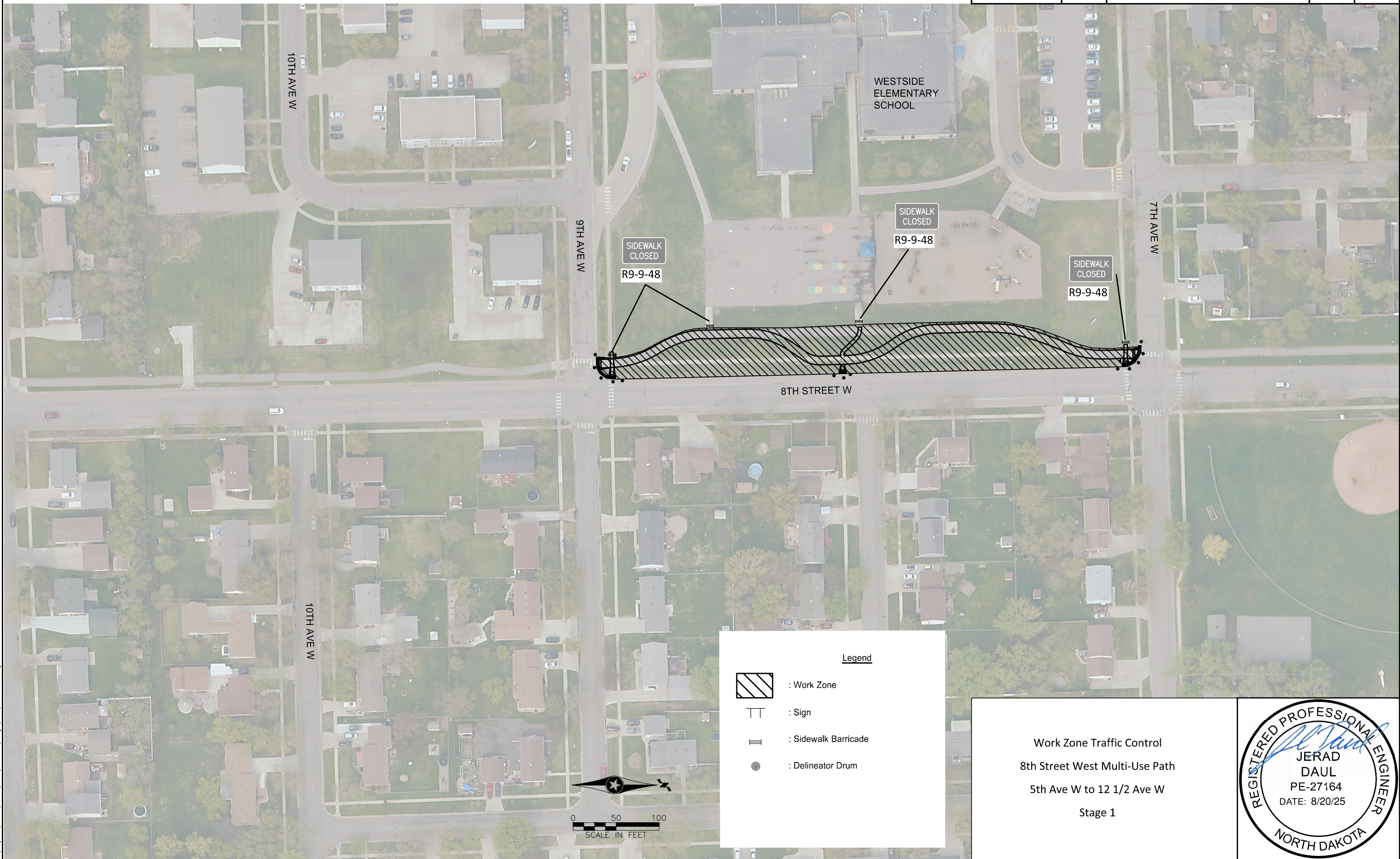
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	: Sign
	: Sidewalk Barricade
	: Delineator Drum




Work Zone Traffic Control
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W
 Stage 1



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Legend

	: Work Zone
	: Sign
	: Sidewalk Barricade
	: Delineator Drum

Work Zone Traffic Control
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W
 Stage 1







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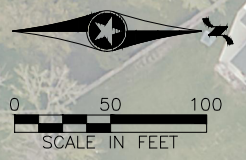


SIDEWALK
CLOSED
R9-9-48

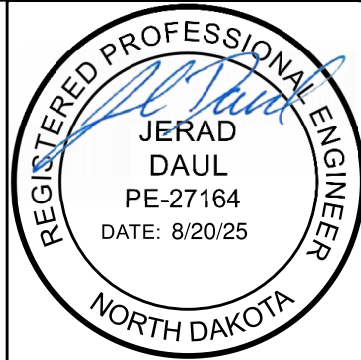
ROAD
WORK
AHEAD
W20-1-48

Legend

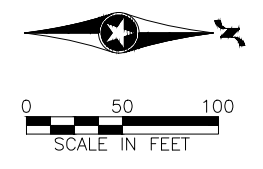
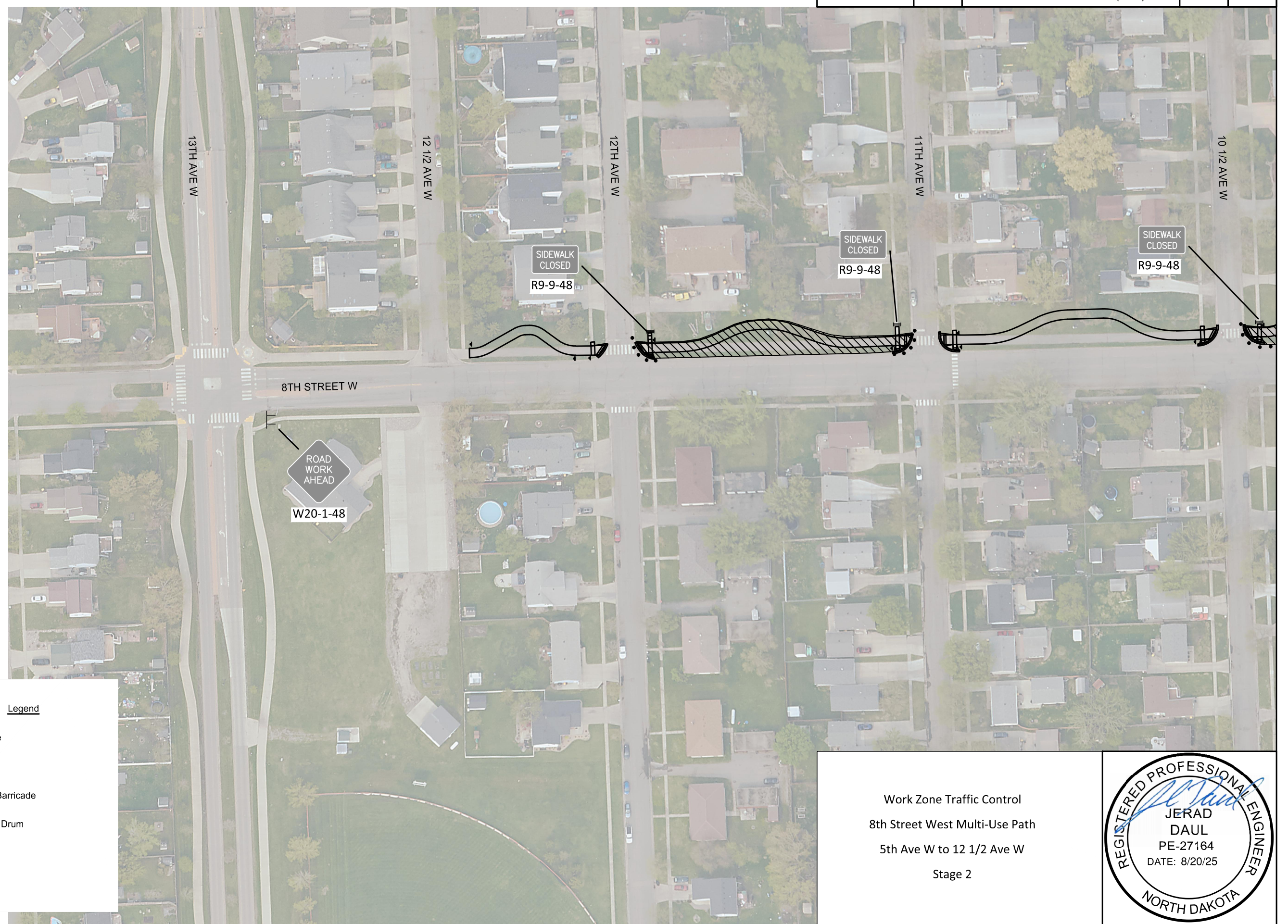
-  : Work Zone
-  : Sign
-  : Sidewalk Barricade
-  : Delineator Drum



Work Zone Traffic Control
8th Street West Multi-Use Path
5th Ave W to 12 1/2 Ave W
Stage 1

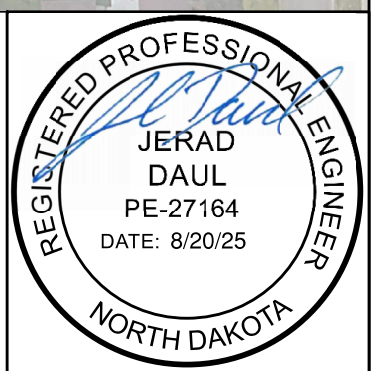


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ND	TMA-CRP-TA-8-992(056)	100	5

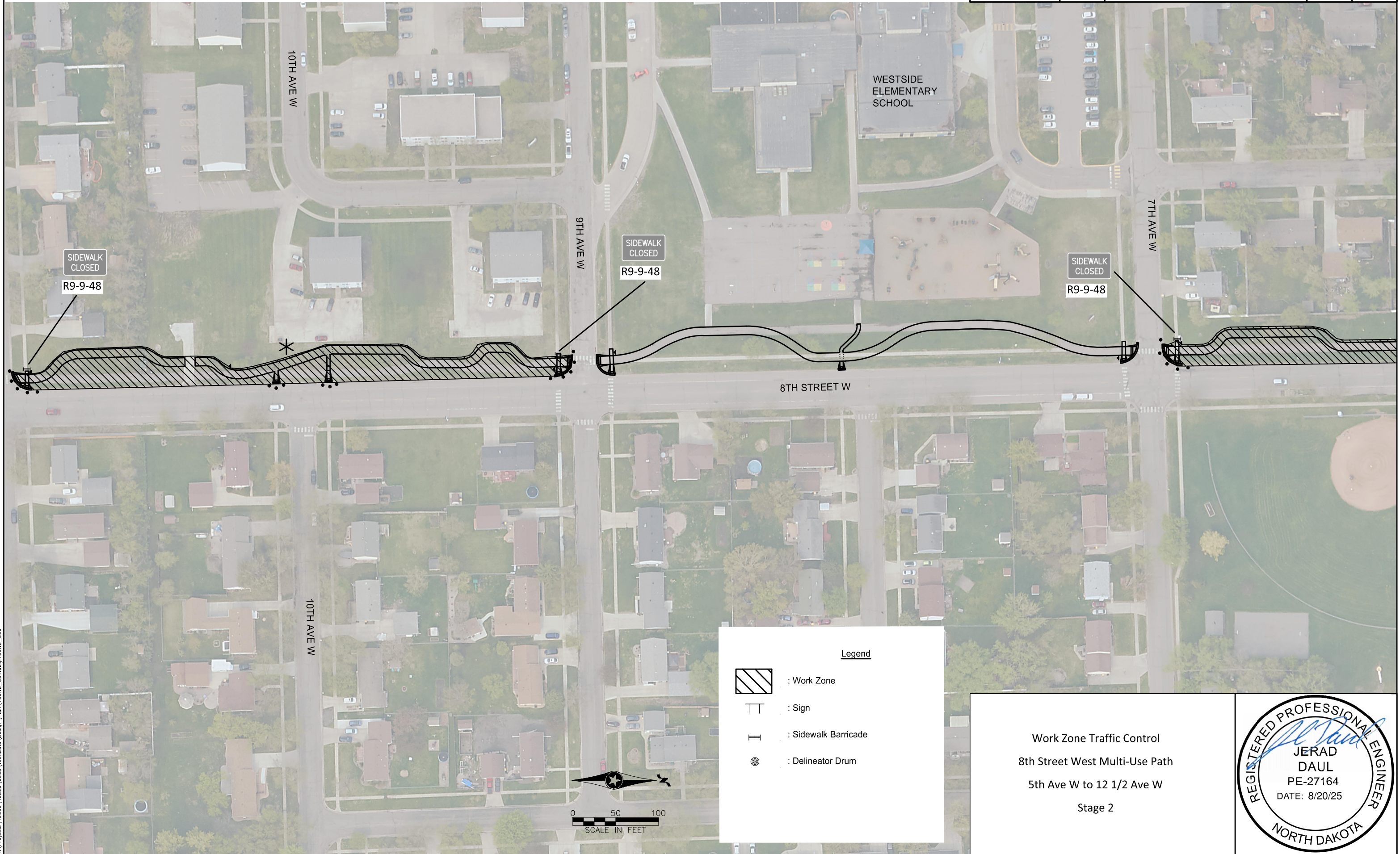


Legend	
	: Work Zone
	: Sign
	: Sidewalk Barricade
	: Delineator Drum





Work Zone Traffic Control
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W
 Stage 2



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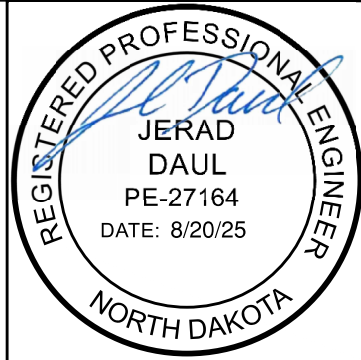


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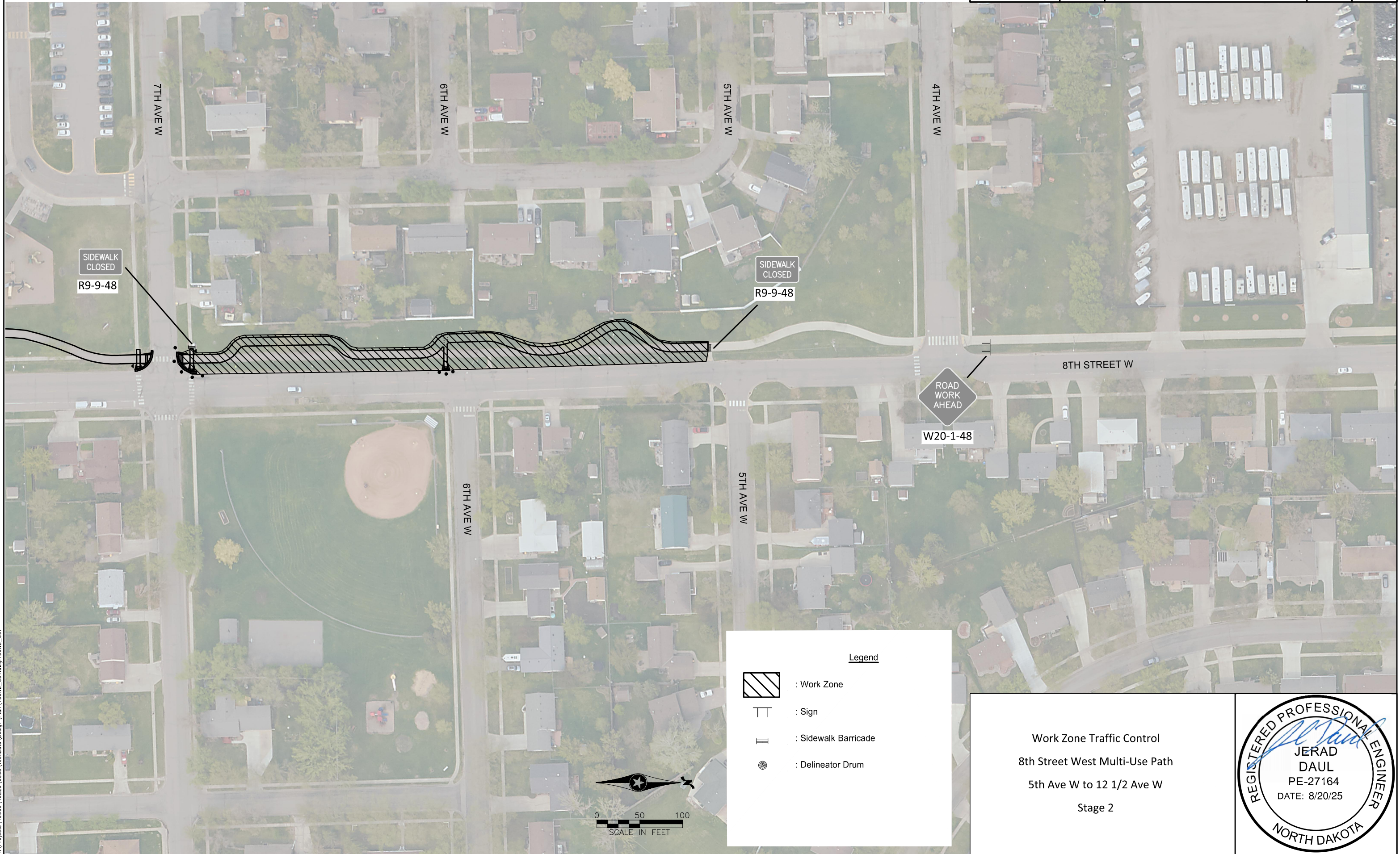
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	: Sign
	: Sidewalk Barricade
	: Delineator Drum







Work Zone Traffic Control
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W
 Stage 2



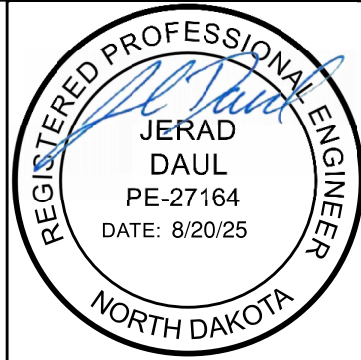
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Legend

-  : Work Zone
-  : Sign
-  : Sidewalk Barricade
-  : Delineator Drum

Work Zone Traffic Control
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W
 Stage 2



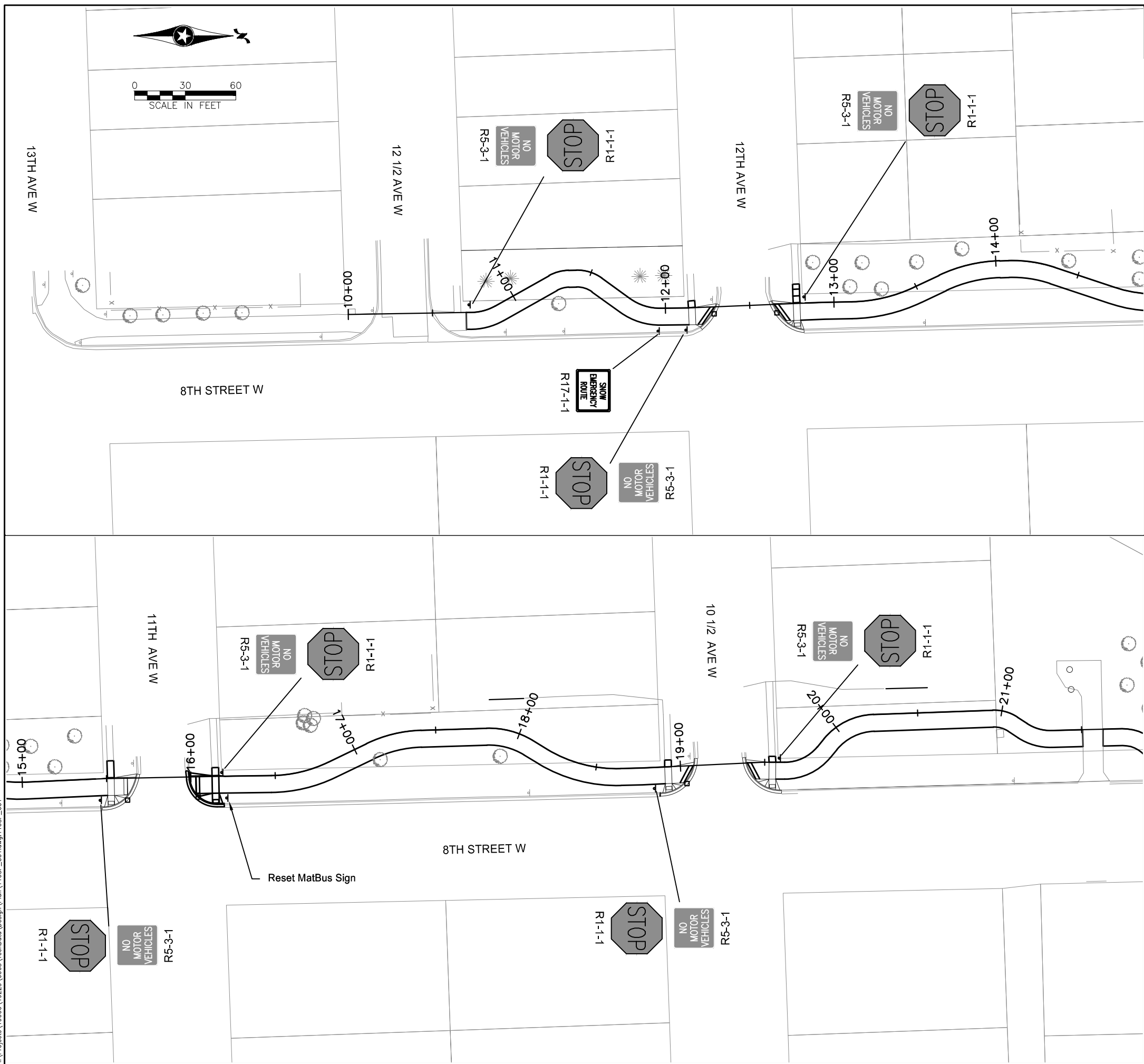
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	TMA-CRP-TA-8-992(056)	110	1

Station / RP	Sign No.	Assembly No.	Flat Sheet For Signs		Sign Support Length				Vert Clearance FT	Support Size	Max Post Len LF	Sleeve Length				Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments	
			IV SF	XI SF	1st LF	2nd LF	3rd LF	4th LF				1st LF	2nd LF	3rd LF	4th LF									
Multi-Use Path																								
10+71 Lt									5.0											1	1			
11+96 Rt									5.0											1	1			
12+12 Rt									5.0											1	1			
12+82 Lt									5.0											1	1			
15+46 Rt									5.0											1	1			
16+18 Lt									5.0											1	1			
16+21 Rt									5.0											1	1			
18+84 Rt									5.0											1	1			
19+59 Lt									5.0											1	1			
22+06 Lt									5.0											1	1			
26+05 Rt									5.0											1	1			
26+76 Lt									5.0											1	1			
32+90 Rt									5.0											1	1			
33+63 Lt									5.0											1	1			
Sub Total			0.0	0.0	Total	0.0													Total	0.0	14	14	0	
Grand Total			0.0	0.0	Total	0.0													Total	0	0	14	14	0



Sign Summary
 Perforated Tube
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W

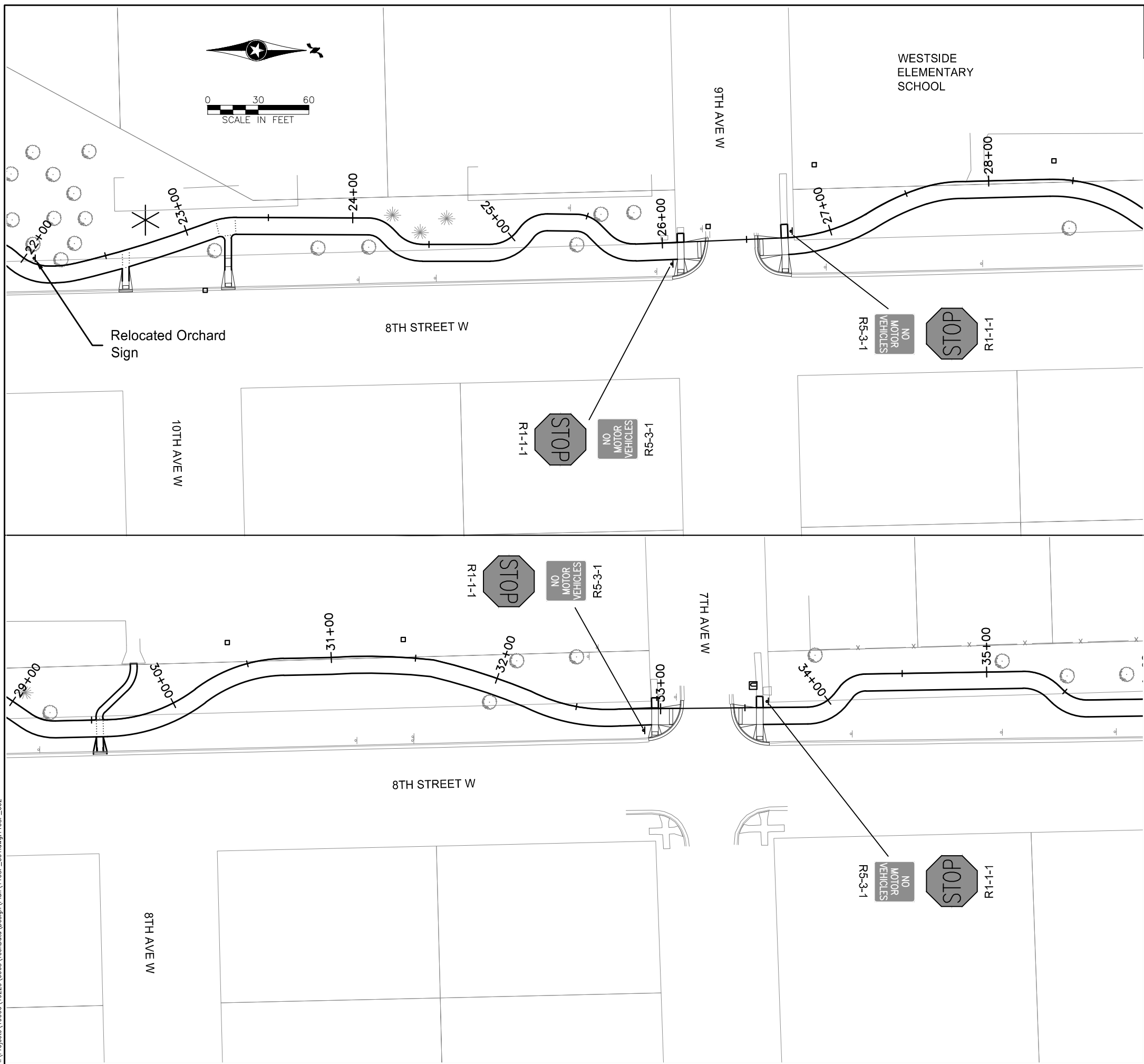


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754	0592	RESET SIGN PANEL		
		Sta 10+71 - 4' LT	1	EA
		Sta 11+96 - 14' RT	1	EA
		Sta 12+12 - 13' RT	1	EA
		Sta 12+82 - 4' LT	1	EA
		Sta 15+46 - 13' RT	1	EA
		Sta 16+18 - 2' LT	1	EA
		Sta 16+21 - 13' RT	1	EA
		Sta 18+84 - 13' RT	1	EA
		Sta 19+59 - 3' LT	1	EA
754	0593	RESET SIGN SUPPORT		
		Sta 10+71 - 4' LT	1	EA
		Sta 11+96 - 14' RT	1	EA
		Sta 12+12 - 13' LT	1	EA
		Sta 12+82 - 4' LT	1	EA
		Sta 15+46 - 13' RT	1	EA
		Sta 16+18 - 2' LT	1	EA
		Sta 16+21 - 13' RT	1	EA
		Sta 18+84 - 13' RT	1	EA
		Sta 19+59 - 3' LT	1	EA

Signing
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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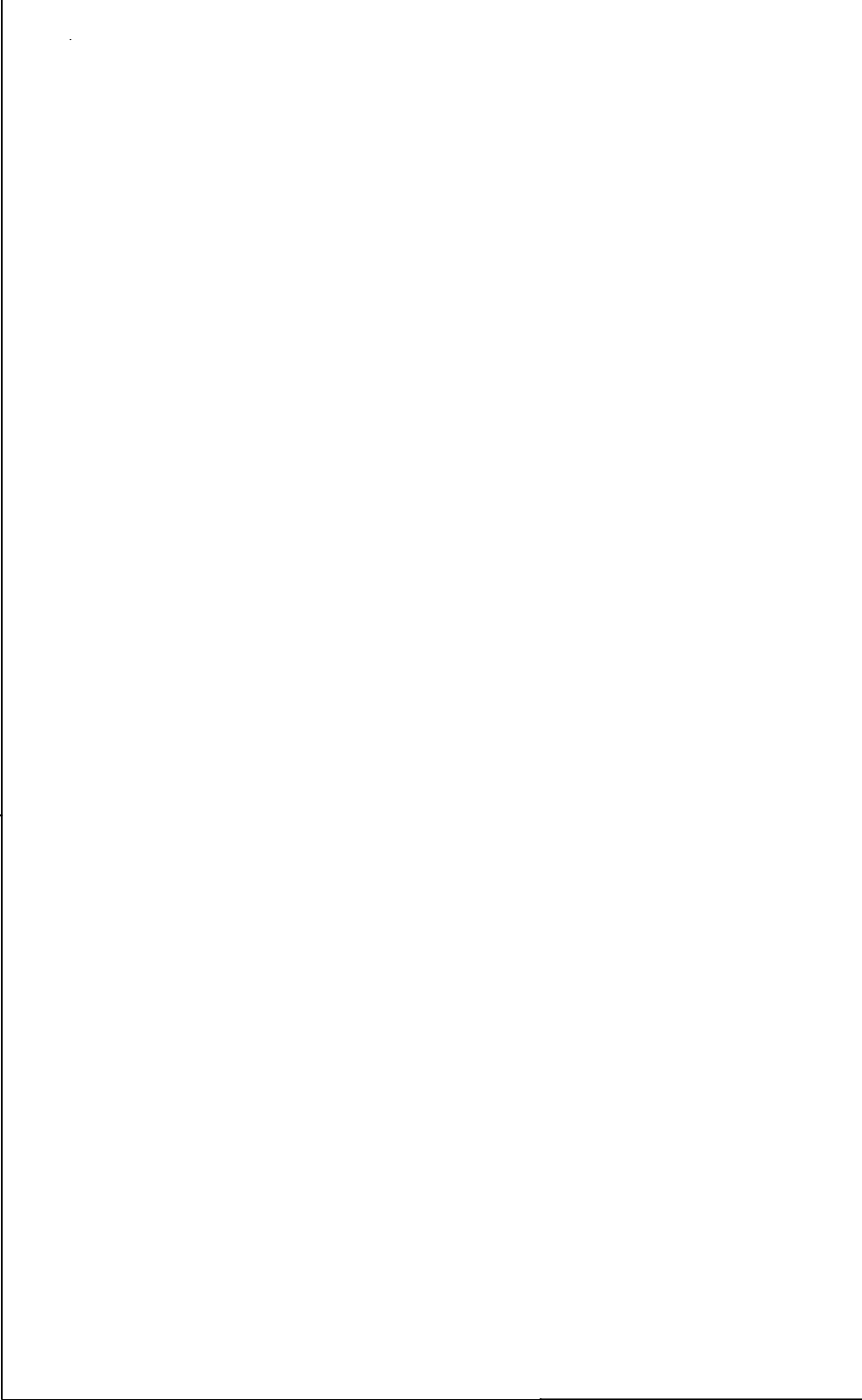
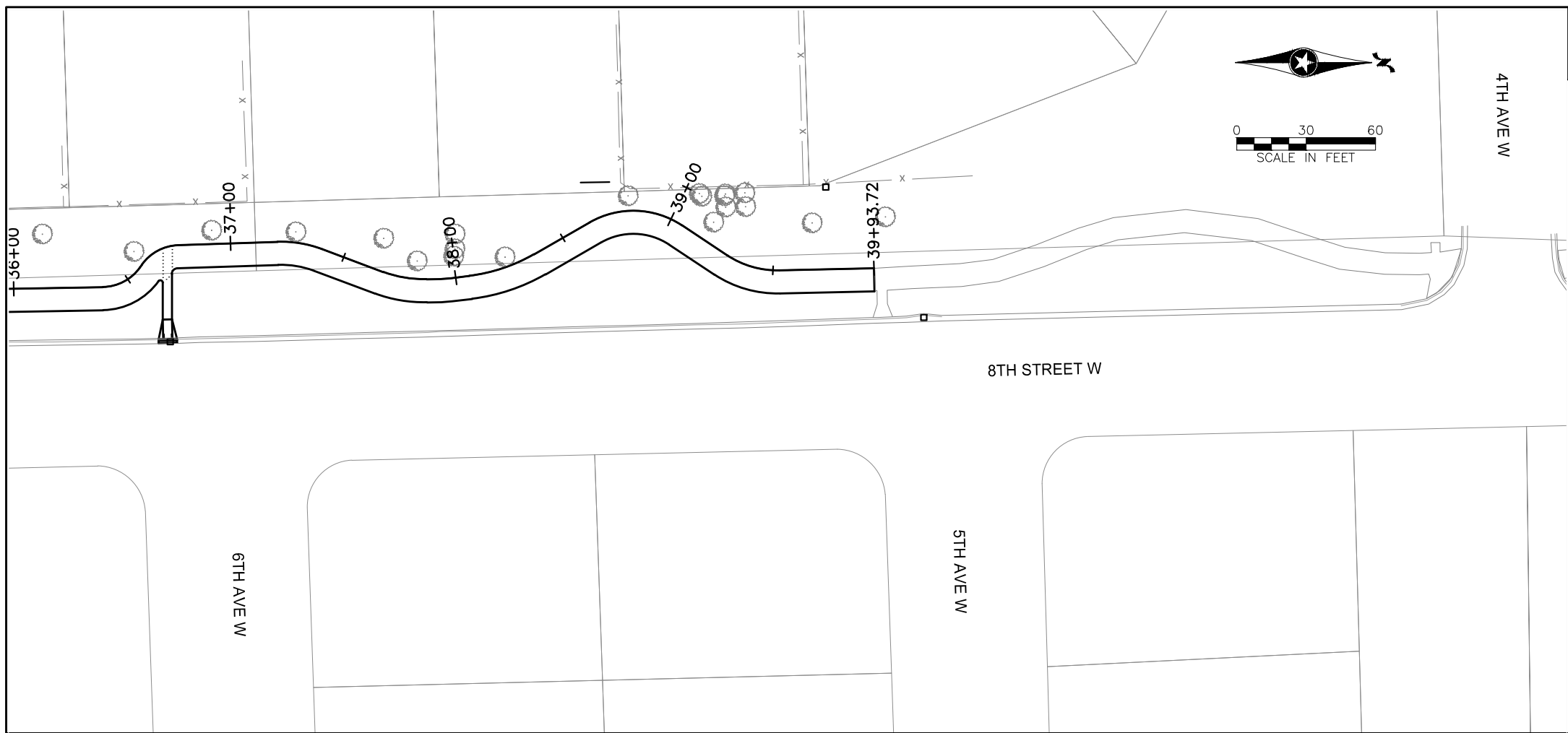
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754	0592	RESET SIGN PANEL		
		Sta 22+06 - 3' LT	1	EA
		Sta 26+05 - 13' RT	1	EA
		Sta 26+76 - 4' LT	1	EA
		Sta 32+90 - 13' RT	1	EA
		Sta 33+63 - 4' LT	1	EA
754	0593	RESET SIGN SUPPORT		
		Sta 22+06 - 3' LT	1	EA
		Sta 26+05 - 13' RT	1	EA
		Sta 26+76 - 4' LT	1	EA
		Sta 32+90 - 13' RT	1	EA
		Sta 33+63 - 4' LT	1	EA

Signing
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TMA-CRP-TA-8-992(056)	110	4



Signing
 8th Street West Multi-Use Path
 5th Ave W to 12 1/2 Ave W



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