

NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION

TAU-4-989(131)
City of Minot Project No. 4720

Ward County
17th Avenue SW, 17th Avenue SE, & 18th Avenue SE
Minot, ND
Washington Safe Routes to School
New Sidewalk, Curb Ramps, and Driveways

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	1	1

GOVERNING SPECIFICATIONS

Date Published and Adopted
by the North Dakota
Department of Transportation

Standard Specifications

07/01/2024

Supplemental Specifications

NONE

PROJECT NUMBER \ DESCRIPTION

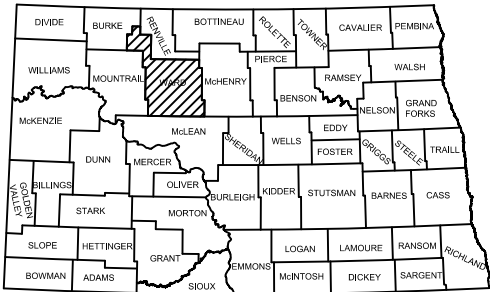
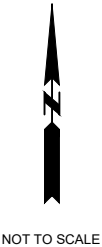
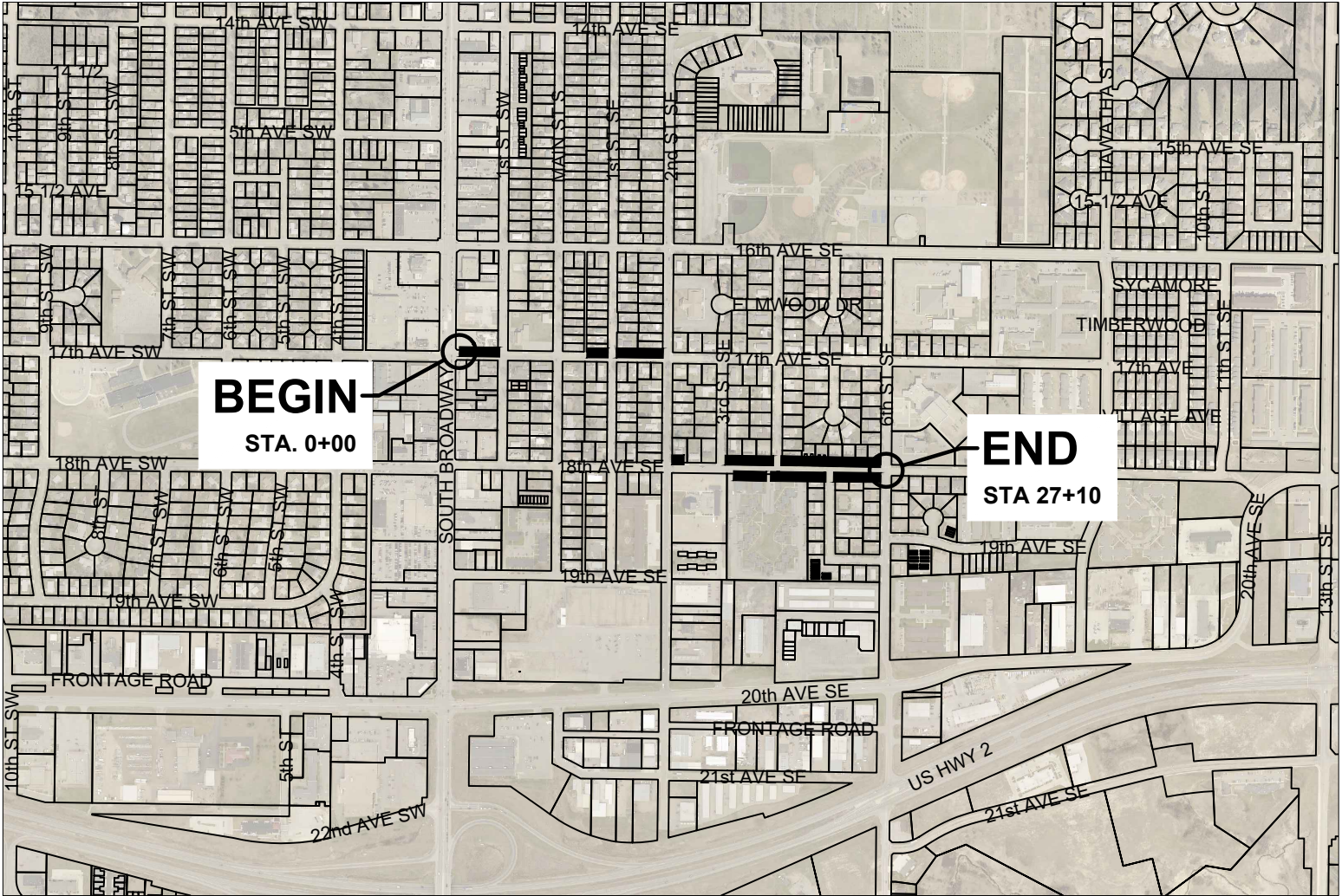
NET MILES

GROSS MILES

TAU-4-989(131) Washington Safe Routes to School

0.31

0.51



STATE OF NORTH DAKOTA

City of Minot

I hereby certify that the attached plans were prepared by me
or under my direct supervision and that I am a duly registered
professional engineer under the laws of the state of ND.

APPROVED DATE:

1/7/2025

Lance Meyer
LANCE E. MEYER, P.E., CITY ENGINEER
CITY OF MINOT



DESIGNER
Jesse Hoffart, PE

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	2	1

TABLE OF CONTENTS		
SECTION NUMBER	SHEET NUMBER	DESCRIPTION
1	1	TITLE SHEET
2	1	TABLE OF CONTENTS/LIST OF DRAWINGS
4	1	SCOPE OF WORK
6	1-3	NOTES
8	1	QUANTITIES
10	1	BASIS OF ESTIMATE
20	1-11	DETAILS
40	1-6	REMOVALS
60	1-9	PLAN AND PROFILE
76	1-2	TEMPORARY EROSION CONTROL
77	1-3	PERMANENT EROSION CONTROL
80	1-19	ADA RAMP DETAILS
100	1-9	TRAFFIC CONTROL
110	1-2	SIGNING
120	1	PAVEMENT MARKINGS
200	1-2	CROSS-SECTIONS
STANDARD DRAWINGS		
D-704-7		BREAKAWAY SYSTEMS FOR CONSTRUCTION ZONE SIGNS - PERFORATED TUBE
D-704-8		BREAKAWAY SYSTEMS FOR CONSTRUCTION ZONE SIGNS - U-CHANNEL POST
D-704-9		CONSTRUCTION SIGN DETAILS - TERMINAL AND GUIDE SIGNS
D-704-10		CONSTRUCTION SIGN DETAILS - REGULATORY SIGNS
D-704-11		CONSTRUCTION SIGN DETAILS - WARNING SIGNS
D-704-11A		CONSTRUCTION SIGN DETAILS - WARNING SIGNS
D-704-13		BARRICADE AND CHANNELIZING DEVICE DETAILS
D-704-14		CONSTRUCTION SIGN PUNCHING AND MOUNTING DETAILS
D-750-3		CURB RAMP RETROFIT DETAILS
D-750-4		CURB RAMP RETROFIT TRANSITIONAL AREA DETAILS
SPECIAL PROVISIONS		
288(24)		TEMPORARY PEDESTRIAN FACILITIES
289(24)		COMMERCIAL GRADE ASPHALT

City of Minot

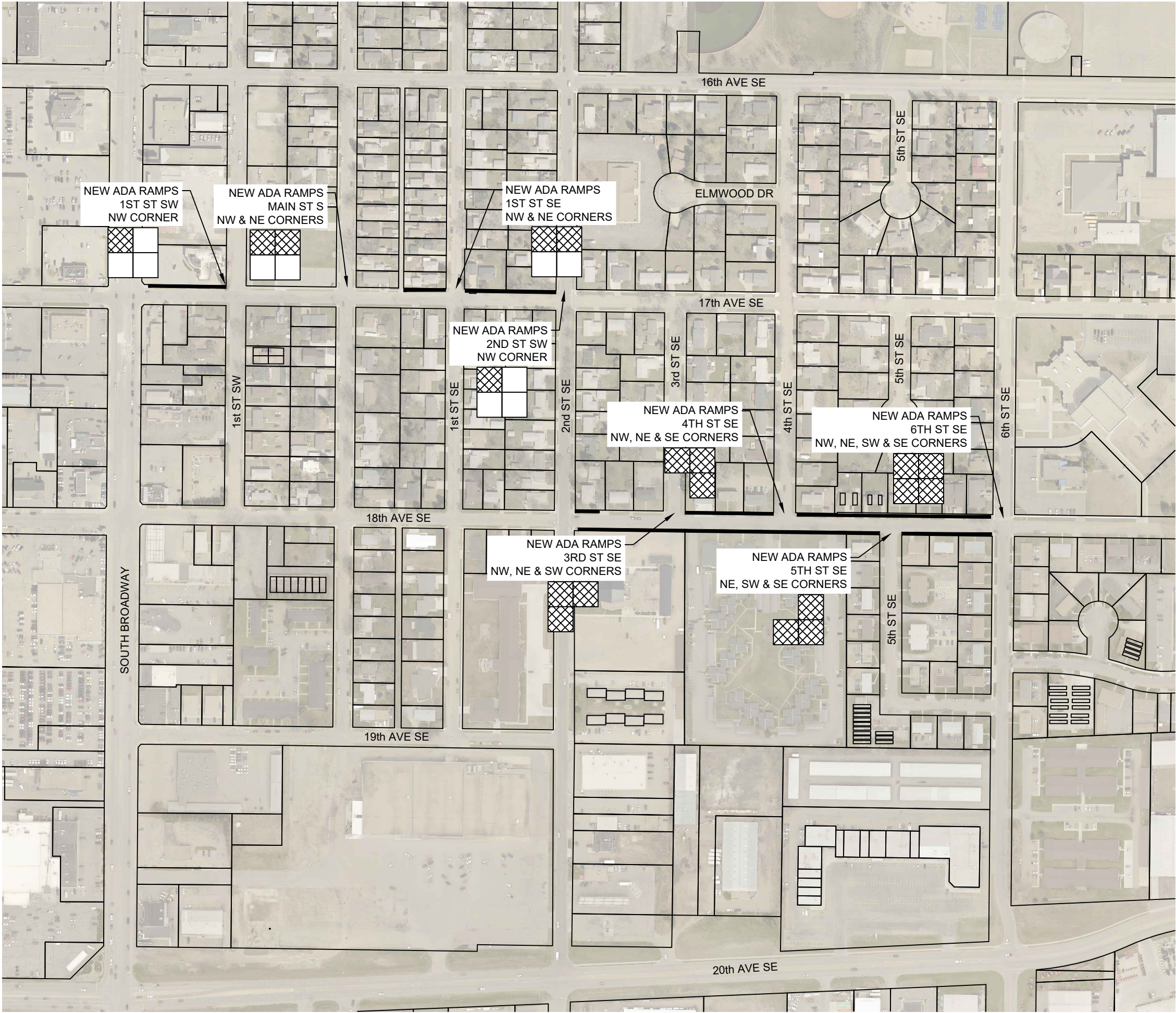
REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

NORTH DAKOTA



TABLE OF CONTENTS/
LIST OF DRAWINGS

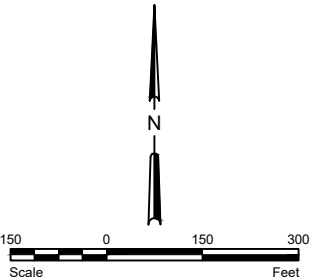
P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/17/2023




STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	4	1

LEGEND

-  ADA RAMP
-  NEW SIDEWALK



City of Minot



SCOPE OF WORK

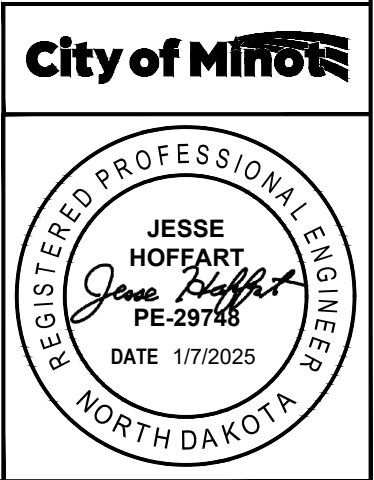
P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

NOTES

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	6	1

- 100-P01 COMPLETION DATES: The overall completion date for this project will be August 15, 2025. Liquidated damages for failure to complete work by the completion date will be pursuant to standard specification 108.07.
- 100-P02 NOISE RESTRICTION: Construction activities or moving of equipment is only allowed between 7:00 am and 7:00 pm. Monday through Saturday, except for sawing of new concrete. Inform the Engineer in writing a minimum of 24 hours before sawing is planned to occur outside of these hours. Provide written notices to residents and / or businesses located within ½ block of the work by 7:00 pm prior to construction activities occurring between 7:00 pm and 7:00 am.
- 100-P03 ACCESS DURING CONSTRUCTION: Work on a driveway must be complete within 7 calendar days of starting removals on driveway. Lot owner(s) must be notified by Contractor minimum 2 calendar days prior to beginning removals. Removal shall not begin unless contact has been confirmed with lot owner(s) and documented by the Contractor.
- 100-P04 MOBILIZATION: All costs associated with multiple mobilizations shall be the responsibility of the contractor or subcontractor and no additional compensation will be considered by the Engineer or Owner.
- 100-P05 CONSTRUCTION EASEMENTS: Not all trees within the construction easements are being removed. Therefore, it is the contractor's responsibility to take care or to protect trees that are to remain when working around them. If for any reason the Contractor damages or destroys any trees that were not planned to be removed, the Contractor will be responsible for compensating the landowner.
- 100-P06 PROTECT EXISTING TREES: Contractor may not disturb primary roots of protected trees without the input of the City Forester and Engineer. If the roots become damaged without the input, the removal will be at the discretion of the City Forester and cost associated with such damage will be the Contractor's responsibility.
- 105-200 UTILITY COORDINATION: A utility coordination meeting is required.
- 107-500 PAVEMENT SWEEPING: Sweep the roadway adjacent to the construction area at the end of each day. Utilize a vacuum or pickup type sweeper.
- 107-P01 SPRINKLER SYSTEM: Any damage to sprinkler systems shall be repaired. The contractor shall work with property owners to lower/relocate lines or re-install sprinkler heads that are in the proposed concrete areas. Contractor will include all cost for repairing sprinkler systems to “Sprinkler Relocation” bid item.
- 108-100 WEEKLY PLANNING & REPORTING MEETING: A weekly planning and reporting meeting is required.

- 108-P01 PUBLIC RELATIONS COORDINATION: Work with City of Minot's Public Relations Team and the Engineering Team to assist with all public communications and provide information in a timely manner to update the traveling public. The Contractor is responsible for providing the following:
1. Upcoming construction activities in regard to street closures so that city police, emergency services, schools, and other pertinent city agencies may be notified.
 2. Coordinate with and provide information to the Engineering Team and / or the City of Minot's Public Relations Team to assist with news releases before and during construction.
- 201-P01 CLEARING & GRUBBING: Existing rock and landscaping within the sidewalk alignment shall be removed from the project and returned to the adjacent lot owner(s). Contractor shall use care in the removal of the landscaping, rock, and pavers and shall coordinate with the lot owner(s) as applicable for the delivery of the return materials. All shrubs shall be removed if they are within the sidewalk alignment. Trees along the corridor may need to be trimmed. The engineer will mark branches to be trimmed by the Contractor. Contractor will include the cost for trimming in the “Clearing & Grubbing” item.
- 202-P01 REMOVAL OF CONCRETE: Concrete removals vary in thickness. There will be no additional compensation for the removal of extra thickness. Include the removal of aggregate or embankment beneath the roadway, sidewalk, curb and curb and gutter in the costs of “Removal of Concrete Pavement” or “Removal of Curb & Gutter” bid items.
- 202-P02 REMOVAL OF BITUMINOUS SURFACING: Bituminous surfacing designated for full depth removal may vary in thickness. Bituminous surfacing to be removed shall be sawed full depth to a vertical edge at the locations shown on the plans and to the limits as marked by the engineer in the field. There will be no additional compensation for the removal of extra thickness of bituminous material. Sawing cutting for removal is an incidental cost to the “Removal of Bituminous Surfacing” bid item.
- 203-P01 TOPSOIL-IMPORTED: Measurement and payment for topsoil shall be at the contract unit price by plan quantity (Contract Quantity Payment).



NOTES

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

NOTES

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	6	2

203-P02 COMMON EXCAVATION TYPE C: The quantities of common excavation to be paid shall be paid at plan quantity. Removing and salvaging topsoil where present and respreading said topsoil in its entirety in areas to be hydro-seeded is included in the bid quantity for this item. Excavate no more than 3.5' wider than sidewalk and ADA ramp. In no case shall the contractor excavate outside of the right-of-way, except as shown in the temporary construction easements. Additional excavation and grading may be required to maintain drainage from new sidewalk to street. Contractor is responsible for any over-excavation costs that have not been approved by the Engineer.

251-P01 SEEDING CLASS III: Use the following seed mix for all permanent seeding:

Species	% by Weight	Purity	Germination
Bluegrass - Park	60%	90%	85%
Creeping Red Fescue	10%	90%	85%
Fine Leaf Perennial Ryegrass	30%	95%	90%

Rate of Seeding = 120 Lbs/Acre

Water the seed for three weeks minimum after placement every other day in order to provide sufficient moisture for growth as determined by the Engineer. Provide a one (1) year guarantee for all seeding, which commences on the date the owner accepts the project. All costs associated with the above work shall not be paid for separately but shall be included in the price bid for "SEEDING CLASS III."

251-P02 WEED CONTROL

Any invasive or unwanted weeds that grow after permanent seeding has been installed shall be corrected and removed by the Contractor. When using non-selective herbicide, a broad-spectrum glyphosate-based herbicide shall be used. When using a selective herbicide, Trimec, 2-4-D, or an approved equal shall be used. Contractor should consider all potential costs for weed control as incidental to the project.

302-P01 AGGREGATE BASE FOR ASPHALT: Class 5 aggregate base will be placed as needed at the Engineer's discretion prior to placement of Commercial Grade Hot Mix Asphalt. All other aggregate for the project shall be paid per plan note 750-P04.

430-P01 BASE: The existing base material must be inspected and approved by the Engineer prior to placement of Commercial Grade Hot Mix Asphalt.

430-P02 COMMERICAL GRADE HOT MIX ASPHALT: Submit a mix design that meets FAA 43 PG 58S-28 for approval. The Hot Mix Asphalt used for street patching will be accepted by one random aggregate and mix sample representing the plan quantity for the project. CSS-1h tack coats shall be placed on all edges and in between hot mix asphalt lifts at a rate of 0.07 gal/sy undiluted.

704-P01 SIDEWALK BARRICADE: Use the sidewalk barricade as detailed in Section 20 or a commercially available ADA wall, as approved by the Engineer to close sidewalks during construction.

708-P01 EROSION CONTROL: Contractor shall stabilize the topsoil with seed and hydraulic mulch within 7 days of topsoil installation. Contractor's construction methods shall be such that erosion will be controlled and minimized in the case of a rain event.

708-P02 INLET PROTECTION-SPECIAL: Shall be paid for by each inlet protection device used.

722-P01 ADJUST GATE VALVE: Take care during concrete removal to ensure riser boxes are not disturbed during construction. Replace bent or otherwise damaged riser boxes. Once concrete is removed around gate valve riser box, provide City personnel full access to inspect riser box. Adjust gate valves to match new adjacent pavement. Include this work in the price bid for "Adjust Gate Valve Box."

748-P01 CURB & GUTTER: Install curb & gutter type as indicated on the plans. Refer to the curb and gutter details to determine the type configuration.

748-P02 CURB-TYPE 1: The height of the "Curb-Type 1" will vary depending on the existing locations and will need to match the existing elevations at tie in locations.

748-P03 REINFORCING STEEL, DOWEL BARS, AND TIE BARS: All reinforcing shall be epoxy coated. Secure steel into drilled holes with an approved epoxy adhesive. Conform to NDDOT Specification Section 836. All reinforcing steel, dowel bars, and tie bar costs shall be incidental costs to the concrete bid items included in the project.

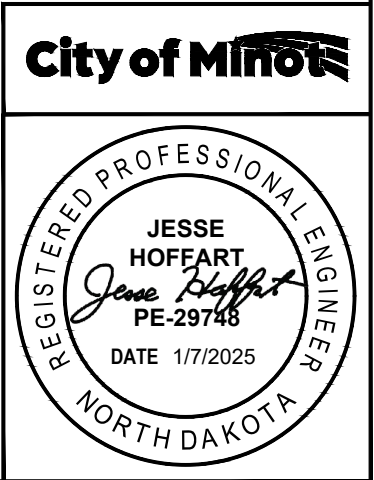
748-P04 CONTRACTION JOINTS: The contraction joints in concrete curb and gutter shall be placed no greater than 10 feet apart. All joints shall be tooled or sawed to depth sufficient to control cracking, typically ¼ of the thickness of the concrete. Match joints of adjacent concrete work when possible. Sawed joints shall be sawed within 24 hours after pouring the concrete. A 3/8 inch wide groove shall be made at each contraction joint.

748-P05 TOLERANCE: Curb and Gutter, including valley gutter, shall not vary for the specified thickness by more than 0.3 inches.

748-P06 FINISHING: Curb and Gutter and Valley Gutter

1. Completed concrete shall have an even, uniform appearance in the surface contour and texture.
2. The surface of the concrete shall have a light broom finish perpendicular to the flow of water.
3. Any surface area holding 1/8 inch deep or greater will be considered unacceptable.

Any concrete deemed unacceptable by the Engineer shall be replaced by the Contractor at its expense.



NOTES


P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023


NOTES

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	6	3

- 750-P01 DETECTABLE WARNING PANELS: Install unpainted, cast iron plates manufactured by East Jordan Iron Works, Neenah Foundry, or approved equal. Panels may need to be cut or modified in the field to fit the proposed design.
- 750-P02 DRIVEWAY CONCRETE: Bid item pertains to the concrete used in a driveway apron, driveway between the sidewalk section and the property owner's garage doors, and concrete pads adjacent to a driveway apron. This item excludes the 6" sidewalk section between the two previously mentioned sections. Driveway aprons should be constructed with the same width that was in place before removal, but with 3-foot flairs on each side, per drawings shown in Section 30 Sheet 1 of this plan set.
- 750-P03 PIGMENTED IMPRINTED CONCRETE: The concrete will be a colored and stamped 4" sidewalk with a herringbone stamp pattern or 4" x 8" brick pattern and colored release agent/color hardener. Include an integral concrete color mix, either dry or liquid and include a colored stamp release agent to be selected upon approved color choice below. Develop a mix design that meets the requirements specified in Section 802.02.B.2.
- Provide a pigment from the list below or provide an approved equal. To be considered an approved equal, pigments must meet the requirements of ASTM C 979.
- 1. Butterfield Uni-Mix (U10 Sonoran Tan or U24 Georgia Clay)
 - 2. Scofield Standard (C-21 Adobe Tan or 1017 Barcelona Brown)
 - 3. Davis Colors (Omaha Tan or Sequoia Tan)
- Use the same supplier for all colored concrete placed under the contract. The color shall be uniform throughout the entire project. As part of the approval process, contractor shall provide a 2'x2' mockup depicting the two color options specified above (from only one manufacturer or equal to be chosen by contractor) for Engineer and Owner to evaluate prior to final selection. The approved mockup and final color choice will be the standard of which to compare project area concrete for color, texture, and finish appearance. Cure and seal concrete using curing compound that meets the requirements of ASTM C 309, Type 1 and include slip resistant additive.
- Include all costs in the price bid for "PIGMENTED IMPRINTED CONCRETE".
- 750-P04 BASE AGGREGATE: Provide aggregate needed to grade sidewalk meeting specifications of "Aggregate Base Course CL 5." Include all costs associated with aggregate in the price bid for "Aggregate Base Course CL 5."
- 750-P05 ADA RAMPS AND LANDINGS: Dimensions shown in Section 80 are approximate. Adjustments may be required so maximum grades are not exceeded. Flatter grades or slopes may be used as directed by the Engineer. The designated ADA turning spaces as designated in Section 80 per the legend as "Low Slope Area" are to be placed separately and installed prior to adjacent ADA ramps and/or sidewalks allowing for a minimum of 24 hours of cure time.
- 750-P06 PROTECTION OF CONCRETE: Protect all new and / or existing 'grey concrete' from staining when the pigmented imprinted concrete is placed throughout the project corridor. The method of protecting the concrete will be approved by the Engineer. Any staining of 'grey concrete' will be removed and replaced at the contractor's expense. Protect all new concrete from damage to include but not limited to: rain, pedestrian traffic, vehicular traffic, and cold weather. Any damaged concrete shall be removed and replaced at the contractor's expense.

- 750-P07 REINFORCING STEEL, DOWEL BARS, AND TIE BARS: All reinforcing shall be epoxy coated. Secure steel into drilled holes with an approved epoxy adhesive. Conform to NDDOT Specification Section 836. All reinforcing steel, dowel bars, and tie bar costs shall be incidental costs to the bid items included in the project.
- 750-P08 EXPANSION JOINTS: Provide a semi-rigid, closed-cell polypropylene foam, preformed joint filler that fully complies with ASTM D8139. NOMAFLEX® by Nomaco, Inc. Place expansion at 60 lineal foot intervals within sidewalk and where specified in the plan details. Expansion joints shall be sealed per section 550.04.F.6. Expansion joints shall be ½ inch wide with epoxy coated smooth dowels greased for debonding placed at specified spacing.
- 750-P09 WATER SERVICE CURB STOPS: Protect all existing curb stops. Contractor shall use caution when excavation around curb stops in sidewalk alignment. All curb stops located within sidewalk shall have a 10" Gave Valve Box placed over the curb stop installed flush with the new sidewalk. Include all costs associated with this work in the price bid for "Sidewalk Concrete 4IN," "Sidewalk Concrete 6IN," and "Driveway Concrete."
- 750-P10 BACKFILLING: Perform backfilling operations no sooner than 72 hours after placement of new concrete. Any damage during backfilling operations is the responsibility of the Contractor to replace. Blend the existing topsoil adjacent to the sidewalk and/or curb & gutter to eliminate any steep slopes or vertical edges. Additional topsoil may be required to maintain existing drainage after new sidewalk is installed. Any excess topsoil will become property of the Contractor and must be removed from the project site. Any needed topsoil must be imported to the project if necessary.
- 750-P11 CONTRACTION JOINTS: The contraction joints in sidewalk shall be placed no greater than 5 feet apart. All joints shall be sawed to depth sufficient to control cracking, typically ¼ of the thickness of the concrete. Match joints of adjacent concrete work when possible. Sawed joints shall be sawed within 24 hours after pouring the concrete. A 3/8 inch wide groove shall be made at each contraction joint. Contraction joints in driveways shall be placed no greater than 10 feet apart.
- 762-P01 PAVEMENT MARKINGS: Pavement surface must be grooved before installation of preformed thermo plastic pavement markings.
- 970-P01 SHELTER: Bid item pertains to the salvage and re-installation of a bus stop shelter. Contractor shall use caution when removing the shelter. Contractor will include all costs associated with the salvage, reset, and installation of the existing bus stop shelter in the "Shelter" bid item, as well as any materials necessary to perform those tasks.





NOTES

5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	8	1

SPEC	CODE	DESCRIPTION	UNIT	AMOUNT
103	100	CONTRACT BOND	L SUM	1
201	330	CLEARING & GRUBBING	L SUM	1
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	1034
202	130	REMOVAL OF CURB AND GUTTER	LF	1300
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	909
203	103	COMMON EXCAVATION - TYPE C	CY	338
203	119	TOPSOIL-IMPORTED	CY	568
251	300	SEEDING CLASS III	ACRE	0.703
253	200	HYDRAULIC MULCH	SY	3409
261	112	FIBER ROLLS 12IN	LF	200
261	113	REMOVE FIBER ROLLS 12IN	LF	200
302	120	AGGREGATE BASE COURSE CL 5	TON	831
430	500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	160
702	100	MOBILIZATION	L SUM	1
704	1000	TRAFFIC CONTROL SIGNS	UNIT	1103
704	1051	TYPE II BARRICADE	EA	13
704	1052	TYPE III BARRICADE	EA	3
704	1058	PEDESTRIAN WALKWAY	LF	298
704	1060	DELINEATOR DRUMS	EA	238
704	1067	TUBULAR MARKERS	EA	165
704	1500	OBLITERATION OF PAVEMENT MARKING	SF	227
704	2108	TEMPORARY CURB RAMP	EA	13
708	1540	INLET PROTECTION-SPECIAL	EA	5
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	5
722	6140	ADJUST GATE VALVE BOX	EA	3
724	275	REMOVE & REPLACE GATE VALVE BOX	EA	2
724	1035	SPRINKLER RELOCATION	L SUM	1
748	100	CURB & GUTTER	LF	1300
748	520	CURB-TYPE I	LF	228
748	1030	VALLEY GUTTER 72 IN	SY	113
750	30	PIGMENTED IMPRINTED CONCRETE	SY	56
750	115	SIDEWALK CONCRETE 4 IN	SY	1453
750	140	SIDEWALK CONCRETE 6 IN	SY	436
750	1000	DRIVEWAY CONCRETE	SY	528
750	2115	DETECTABLE WARNING PANELS	SF	316
754	110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	18
754	206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	16
754	593	RESET SIGN SUPPORT	EA	3
762	1270	PREFORMED THERMO PLASTIC PVMT MK 24IN LINE	LF	216
970	365	SHELTER	EA	1

City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

Jesse Hoffart

PE-29748

DATE 1/7/2025

NORTH DAKOTA

ESTIMATED QUANTITIES

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	10	1

COMMON EXCAVATION-TYPE C

Total area of new 4" sidewalk (10,900 SF) * 8/12 FT depth * 1/27 CY/CF = 269 CY
Total area of new 6" sidewalk (1,422 SF) * 12/12 FT depth* 1/27 CY/CF = 53 CY
269 + 53 = 322 CY

TOPSOIL-IMPORTED


Total area of planned maximum topsoil area needed = 30,664 SF * 0.5 ft thickness = 15,332 CF
15,332 CF * 1/27 CY/CF = 568 CY


COMMERCIAL GRADE HOT MIX ASPHALT

(Total area for estimated patching area (4,479 SF) + Estimated additional area for contingency (2000 SF)) * Desired thickness of asphalt section (4/12 FT)
* (1/27) SY/SF * 2 TON/CY = 160 TONS

AGGREGATE BASE COURSE CL 5

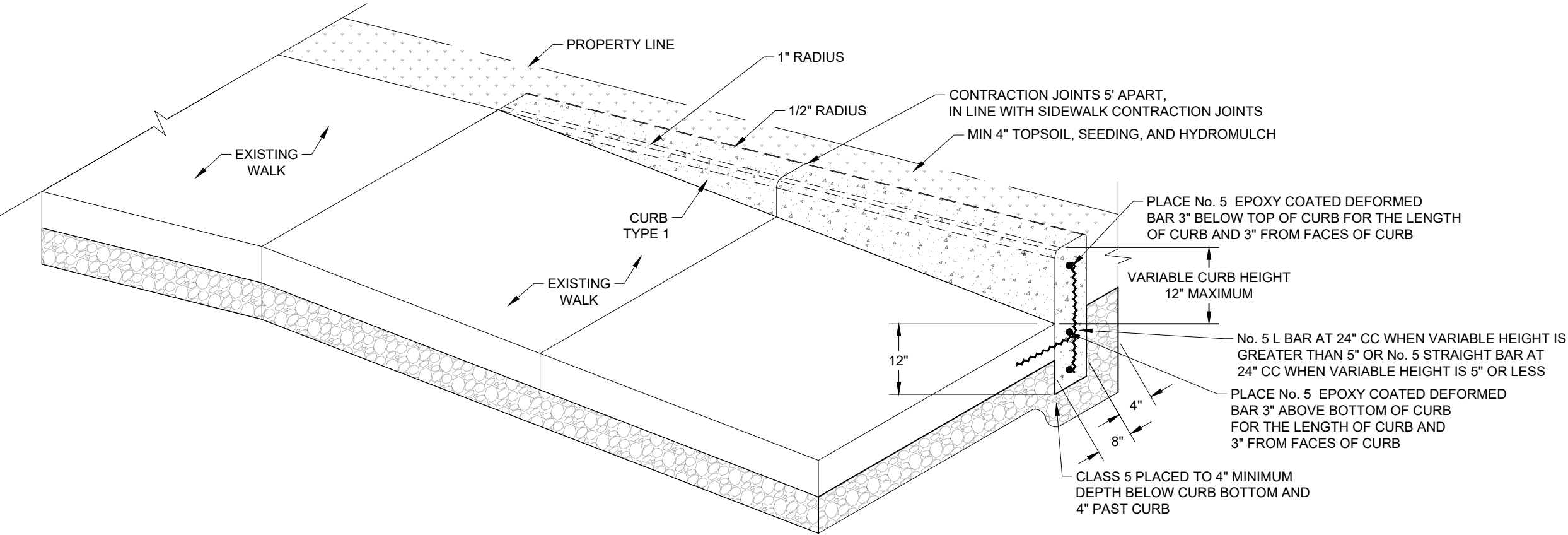
Total area for Valley gutter (113 SY) * base thickness (8/36 Y) = 25.11 CY
Total area for 4" sidewalk (1,453 SY) * base thickness (4/36 Y) = 161.44 CY
Total area for 6" sidewalk (436 SY) * base thickness (6/36 SY) = 72.67 CY
Total area for driveway concrete (528 SY) * base thickness (6/36 SY) = 88.00 CY
Total length of curb & gutter (1,300 LF) * (1/3 Y/LF) * base width (30/36 Y) * base thickness (7/36 Y) = 70.22 CY
Total length of Type 1 curb (684 LF) * (1/3 Y/LF) * estimated cross section area of base (3/9 SY) = 25.33 CY
Sum of all cubic yards (442.77 CY) * Class 5 unit weight (1.875 ton/CY) = 830.20 tons



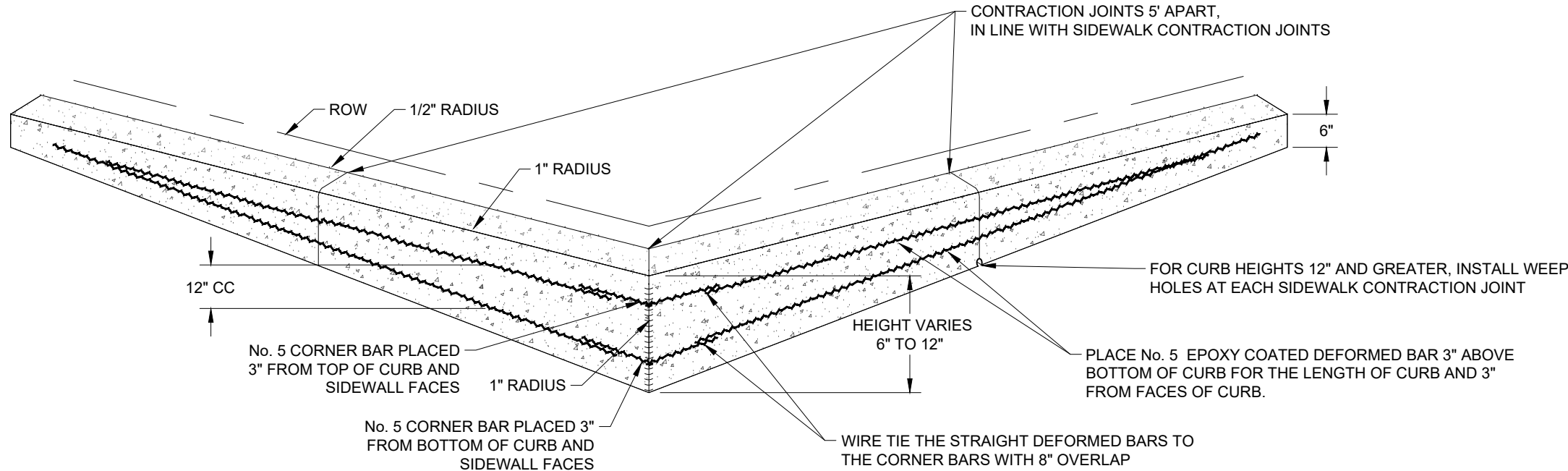


BASIS OF ESTIMATE

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	1



CURB TYPE 1 ADJACENT TO LANDSCAPE
(ISOMETRIC VIEW)



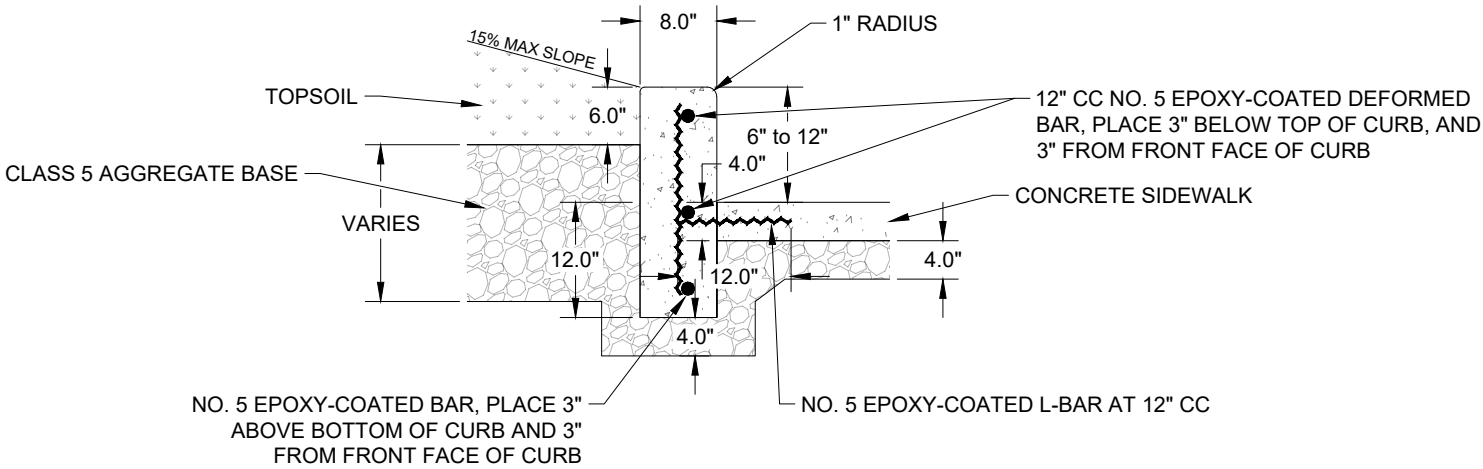
CURB TYPE 1 INTERSECTION
(ISOMETRIC VIEW)

City of Minot



CURB TYPE 1
DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	2



CURB TYPE 1

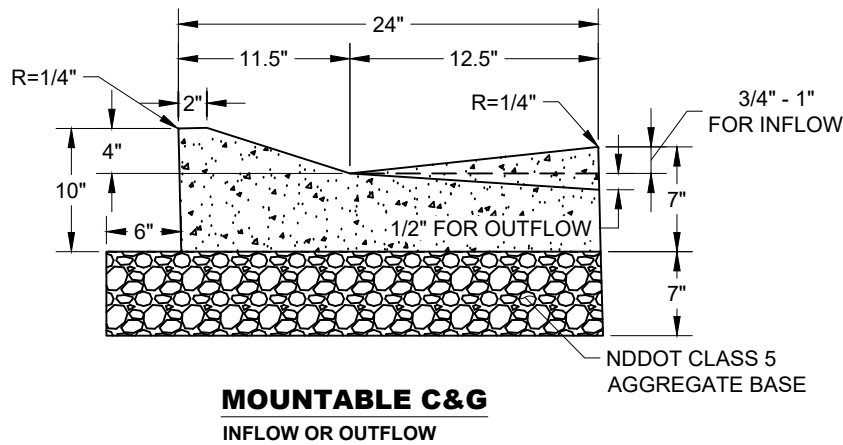
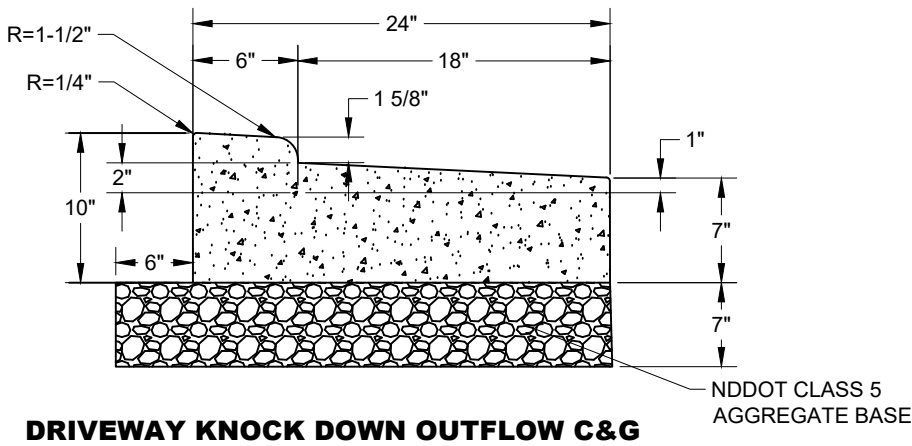
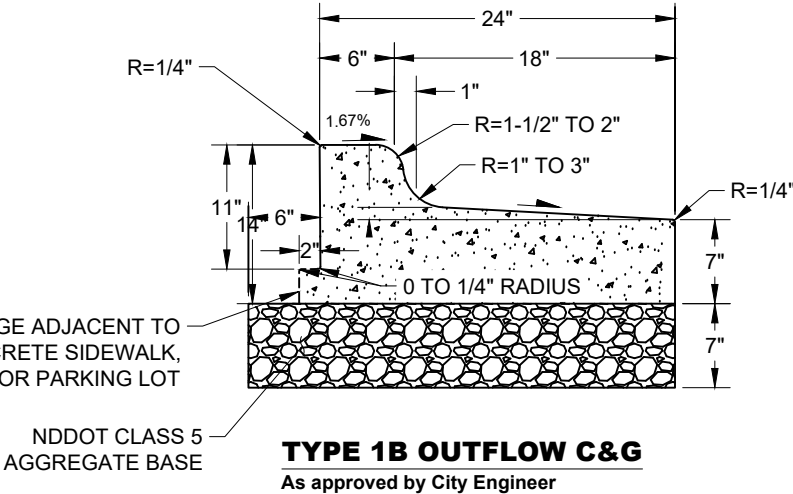
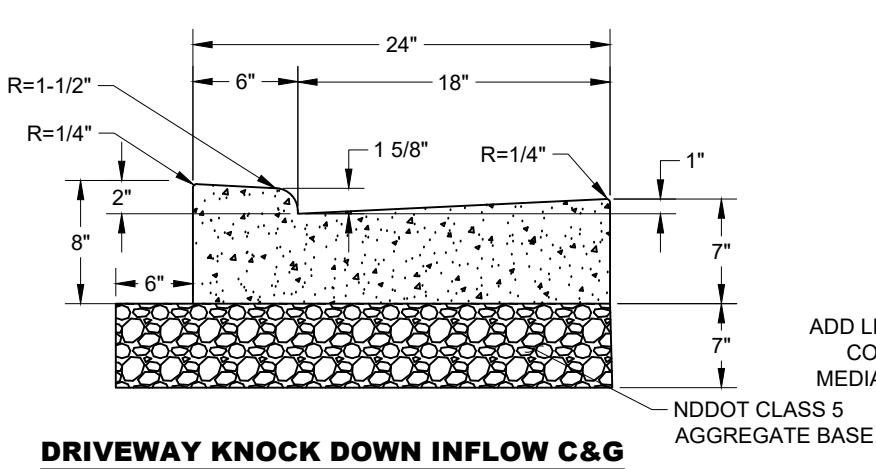
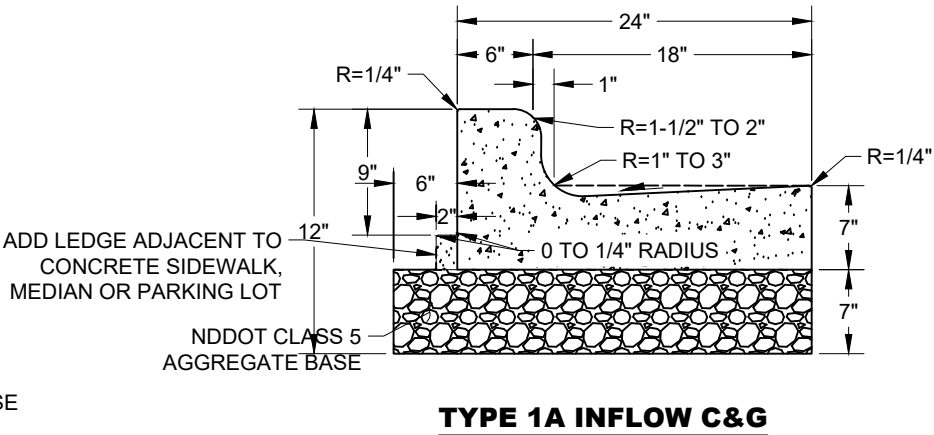
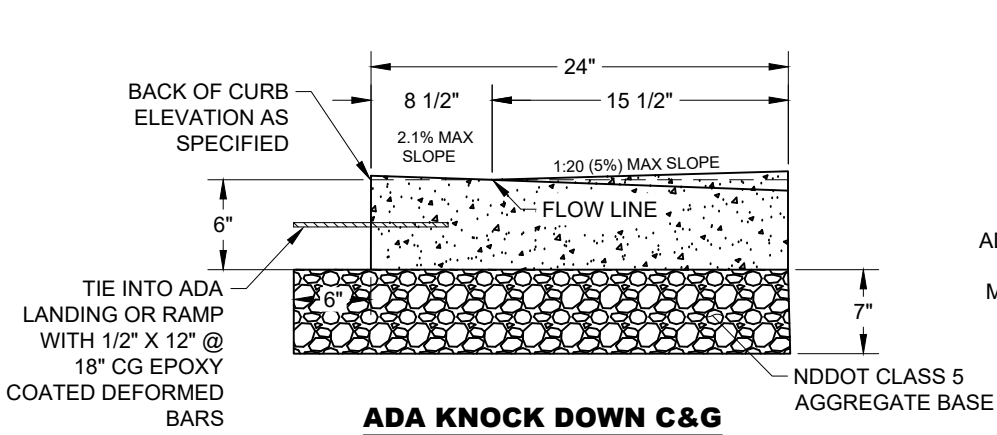
NOTE: IF TYPE 1 CURB HEIGHT (MEASURED FROM TOP OF SIDEWALK) MUST EXCEED 12" TO MEET 15% MAXIMUM SLOPE, CONSULT WITH ENGINEER.

City of Minot



CURB TYPE 1
DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	3



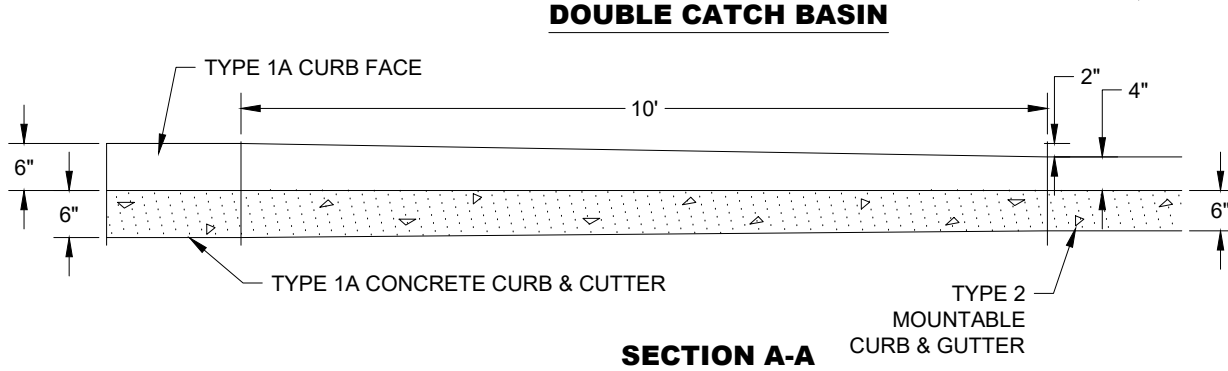
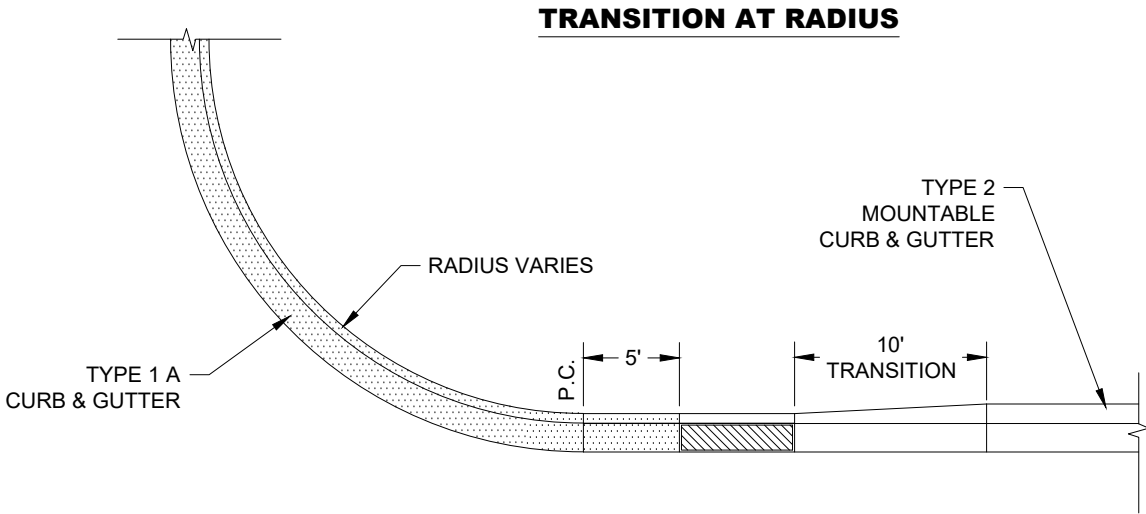
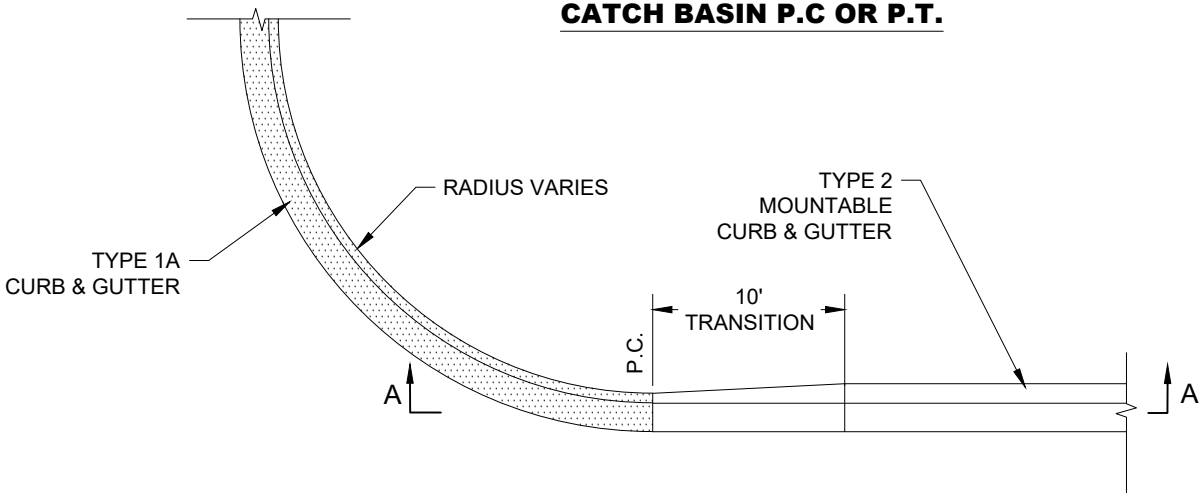
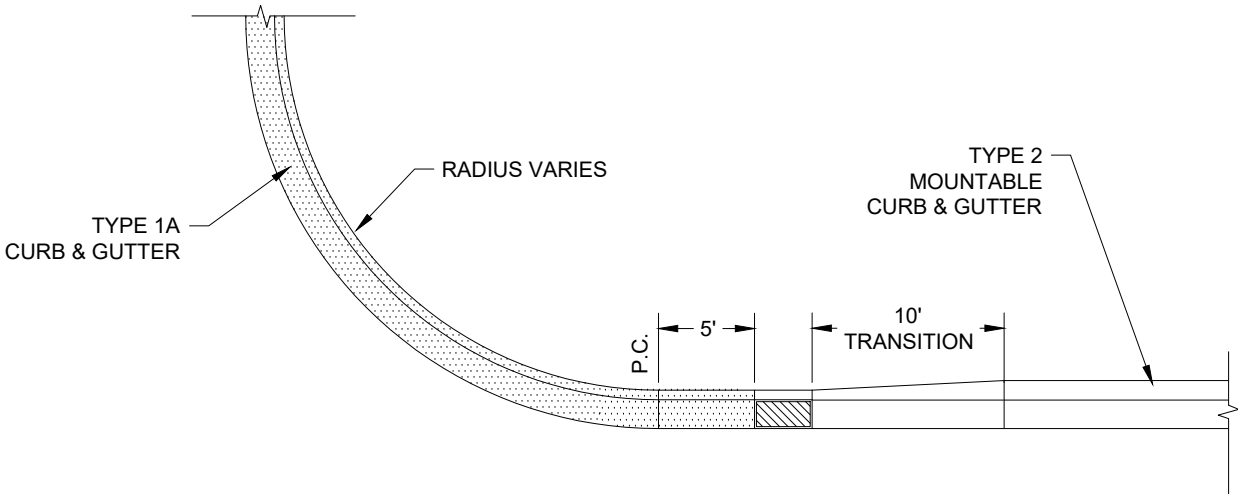
City of Minot



CURB & GUTTER
DETAILS

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	4



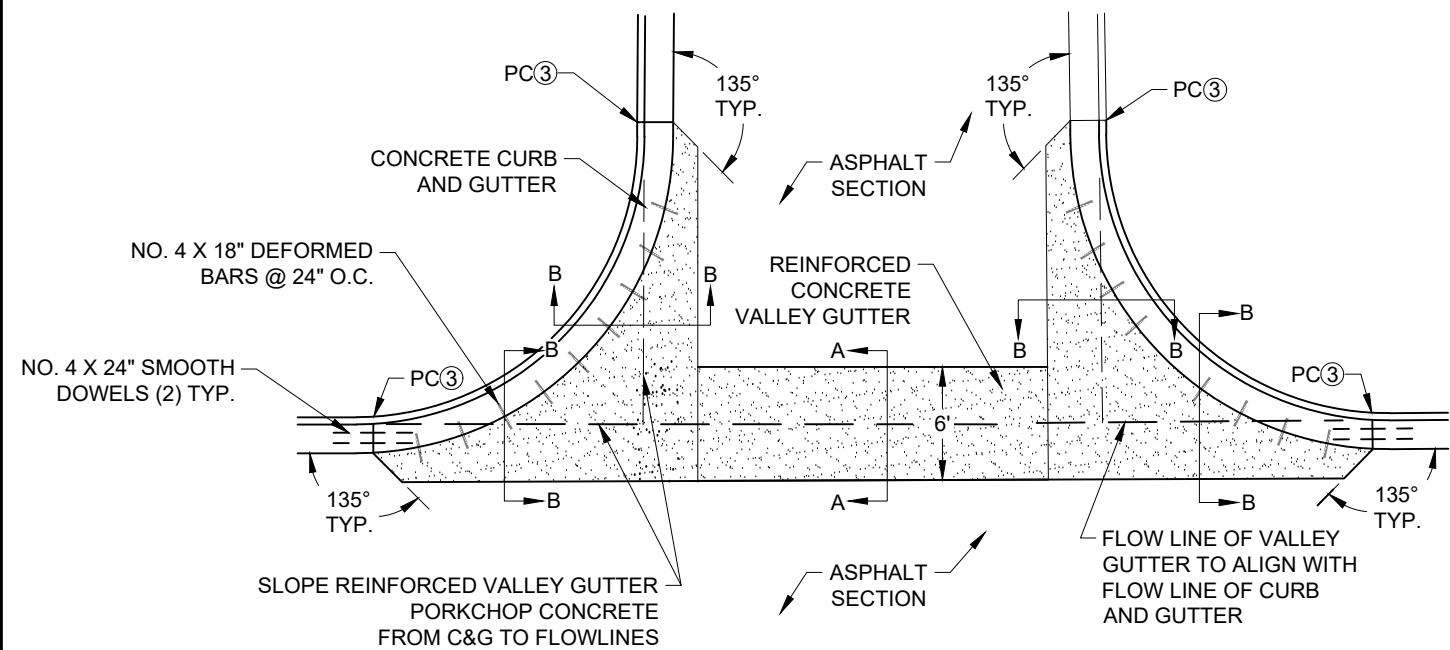
City of Minot



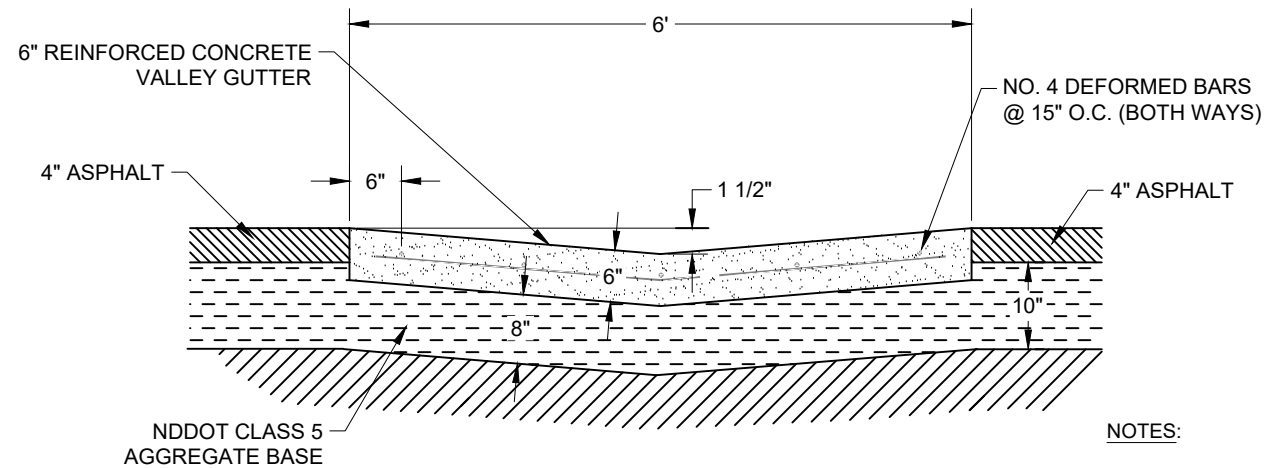
MOUNTABLE CURB & GUTTER
TRANSITION DETAILS

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	5



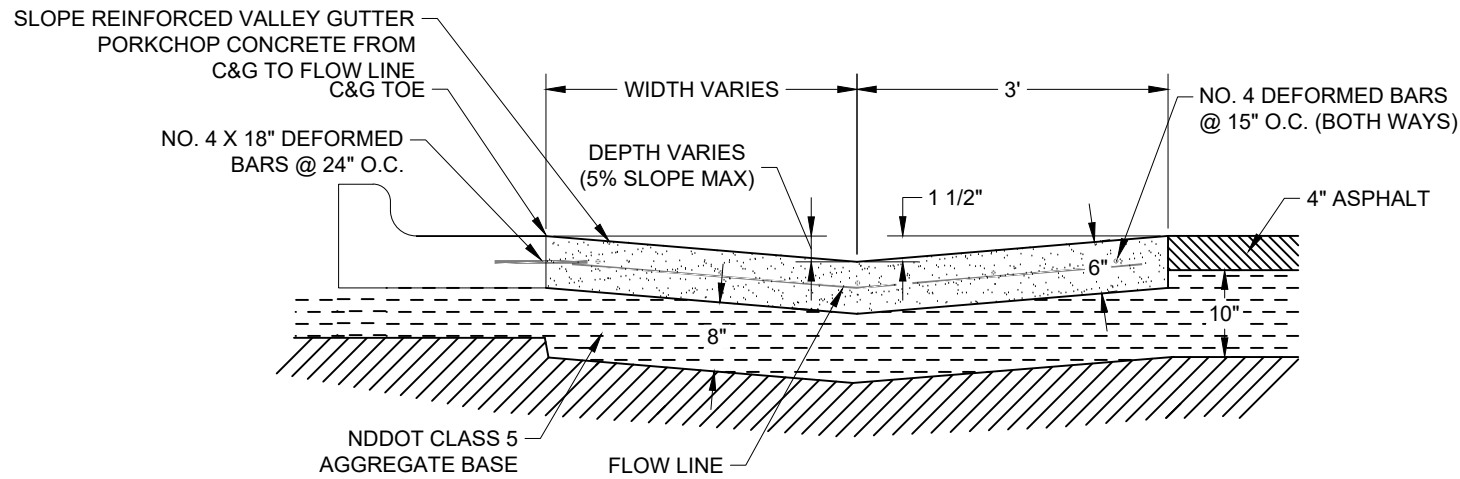
**VALLEY GUTTER TYPE A
ASPHALT STREET**



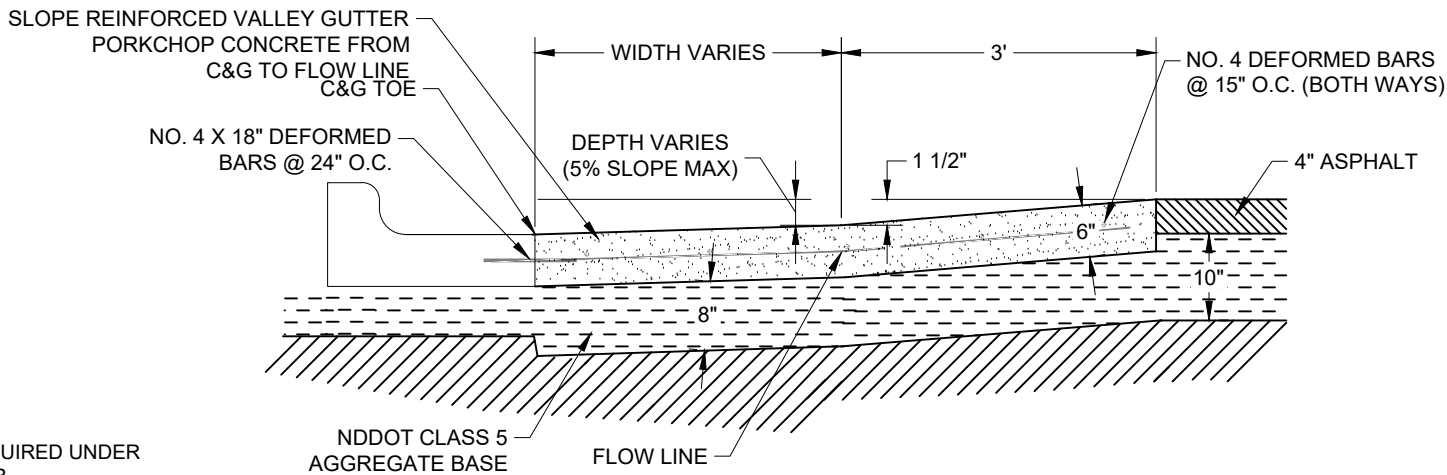
**VALLEY GUTTER TYPE A
SECTION A-A**

NOTES:

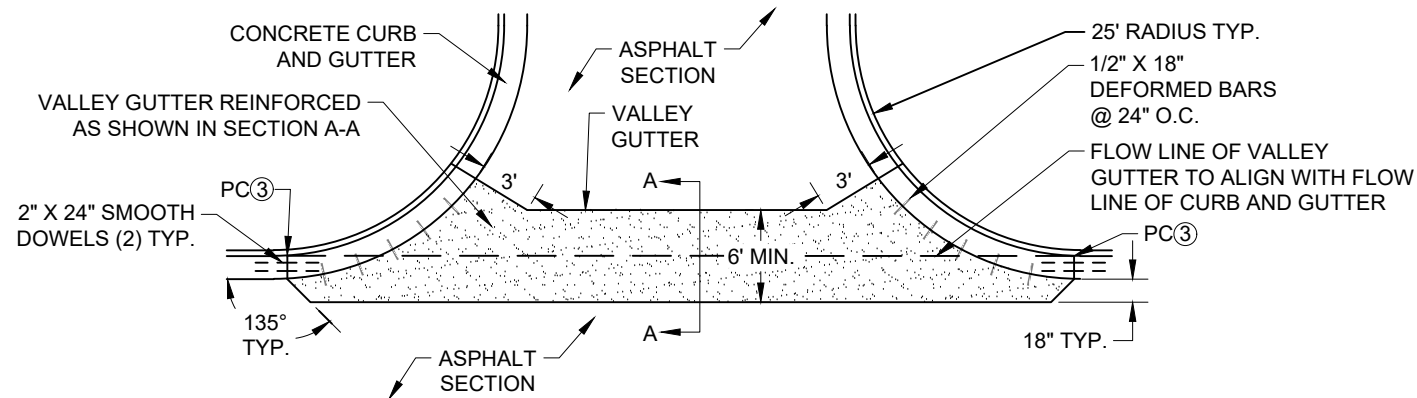
1. AGGREGATE BASE REQUIRED UNDER ENTIRE VALLEY GUTTER
2. REFER TO PLANS FOR LENGTH OF VALLEY GUTTER.
3. CONSTRUCT EXPANSION JOINTS AT PCs.
4. SPACE CONTRACTION JOINTS AT APPROX. INTERVALS EQUAL TO WIDTH OF VG.



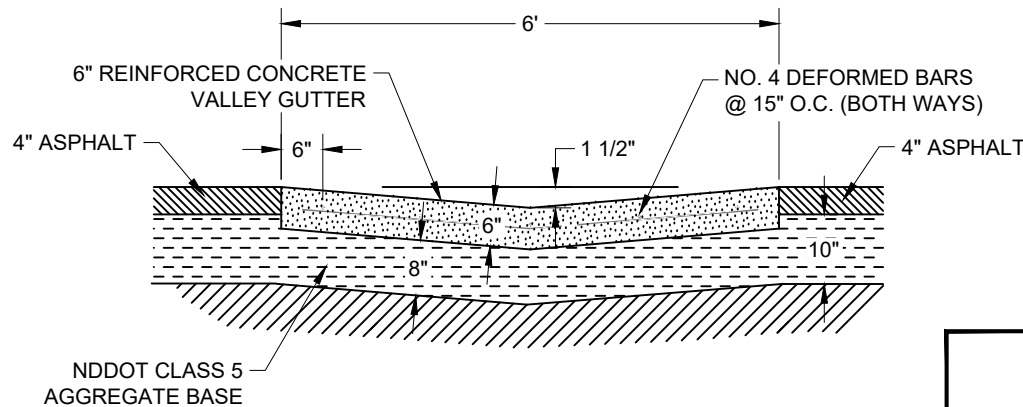
**VALLEY GUTTER TYPE A
SECTION B-B (DECLINE FROM C&G TOE)**



**VALLEY GUTTER TYPE A
SECTION B-B (INCLINE FROM C&G TOE)**

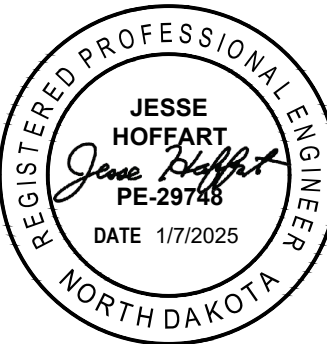


**VALLEY GUTTER TYPE B
PLAN VIEW**



**VALLEY GUTTER TYPE B
SECTION A-A**

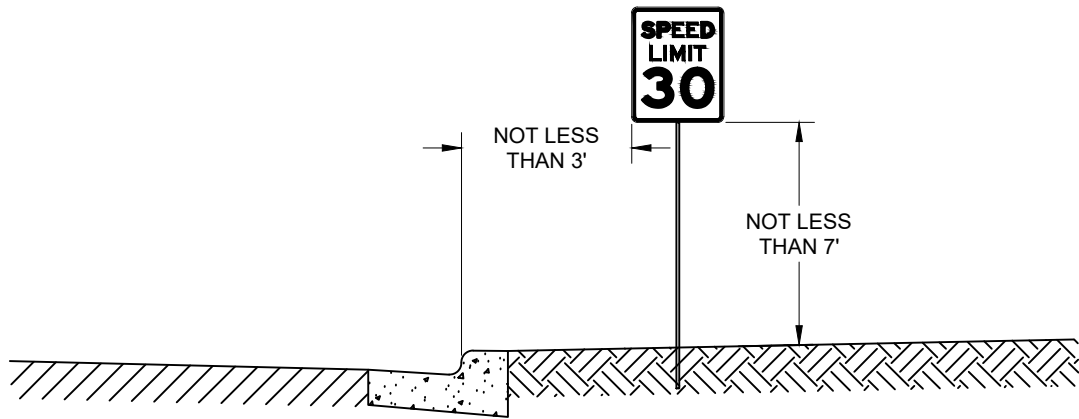
City of Minot



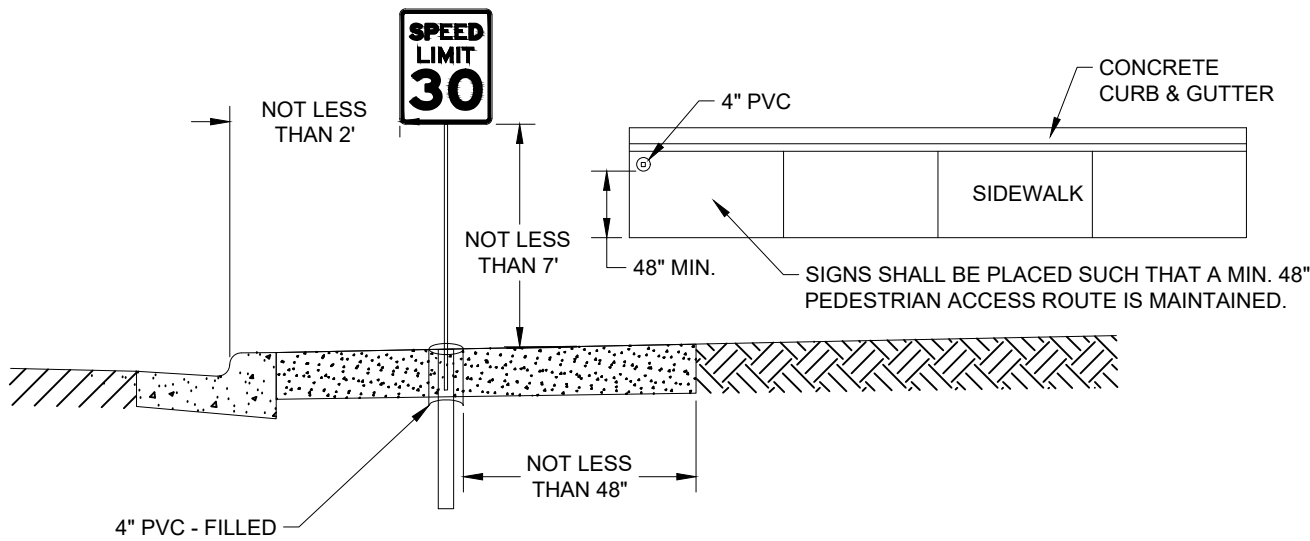
**VALLEY GUTTER
DETAILS**

5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	6

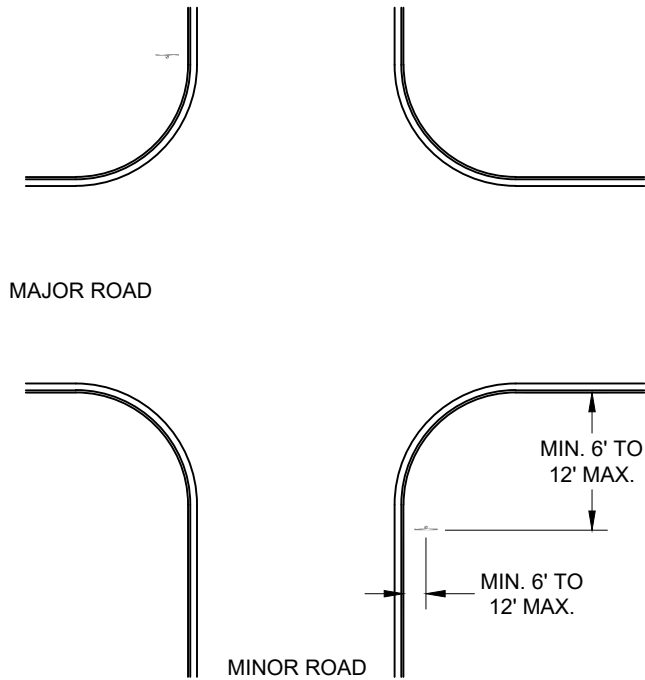


SIGN IN GRASS BOULEVARD

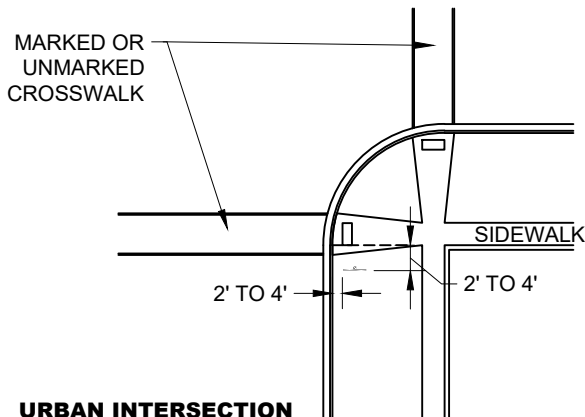


SIGN IN CONCRETE

**TYPICAL SIGN INSTALLATION
LATERAL LOCATIONS**



MINOR CROSSROAD



URBAN INTERSECTION

**TYPICAL SIGN INSTALLATION
AT INTERSECTIONS**

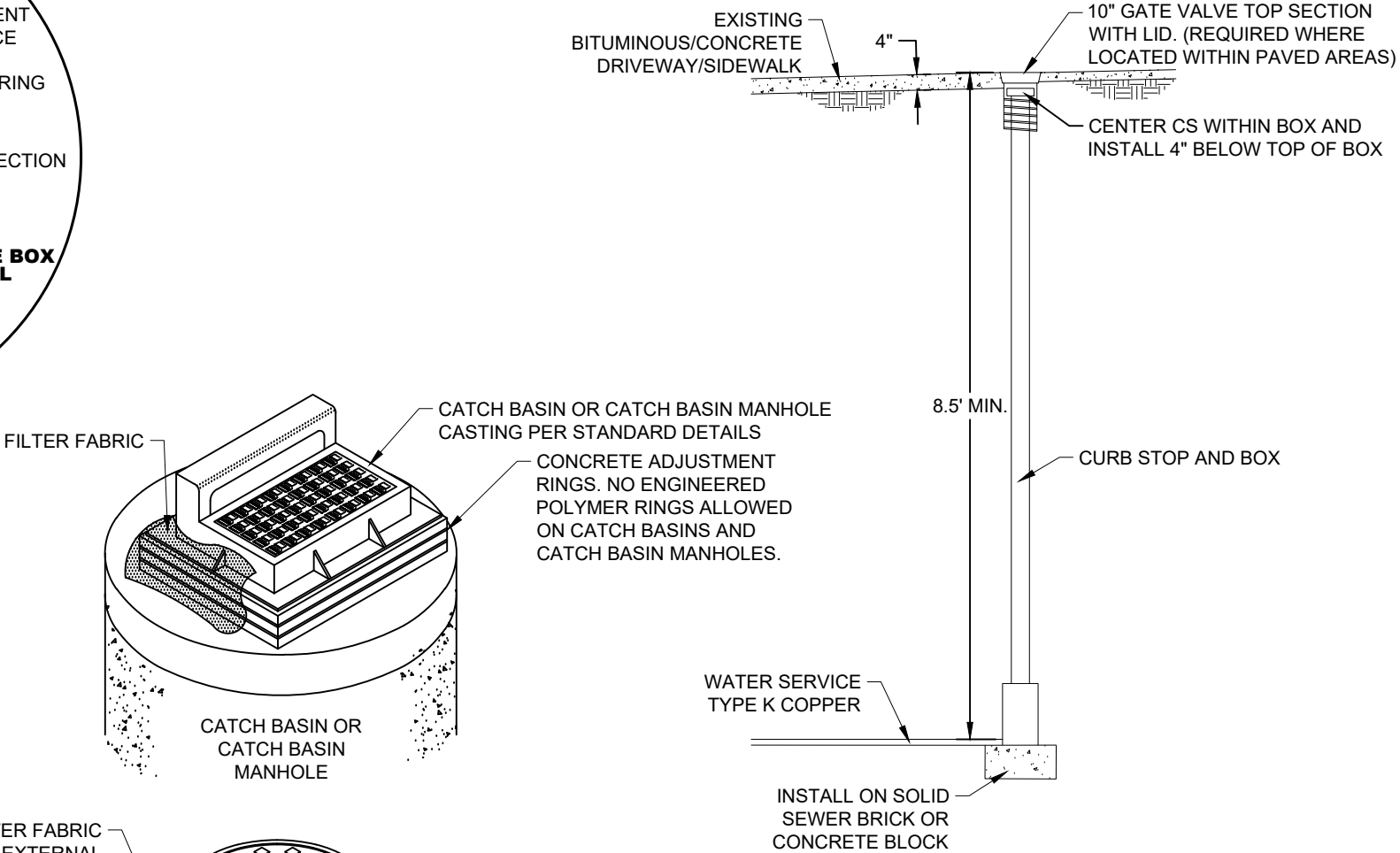
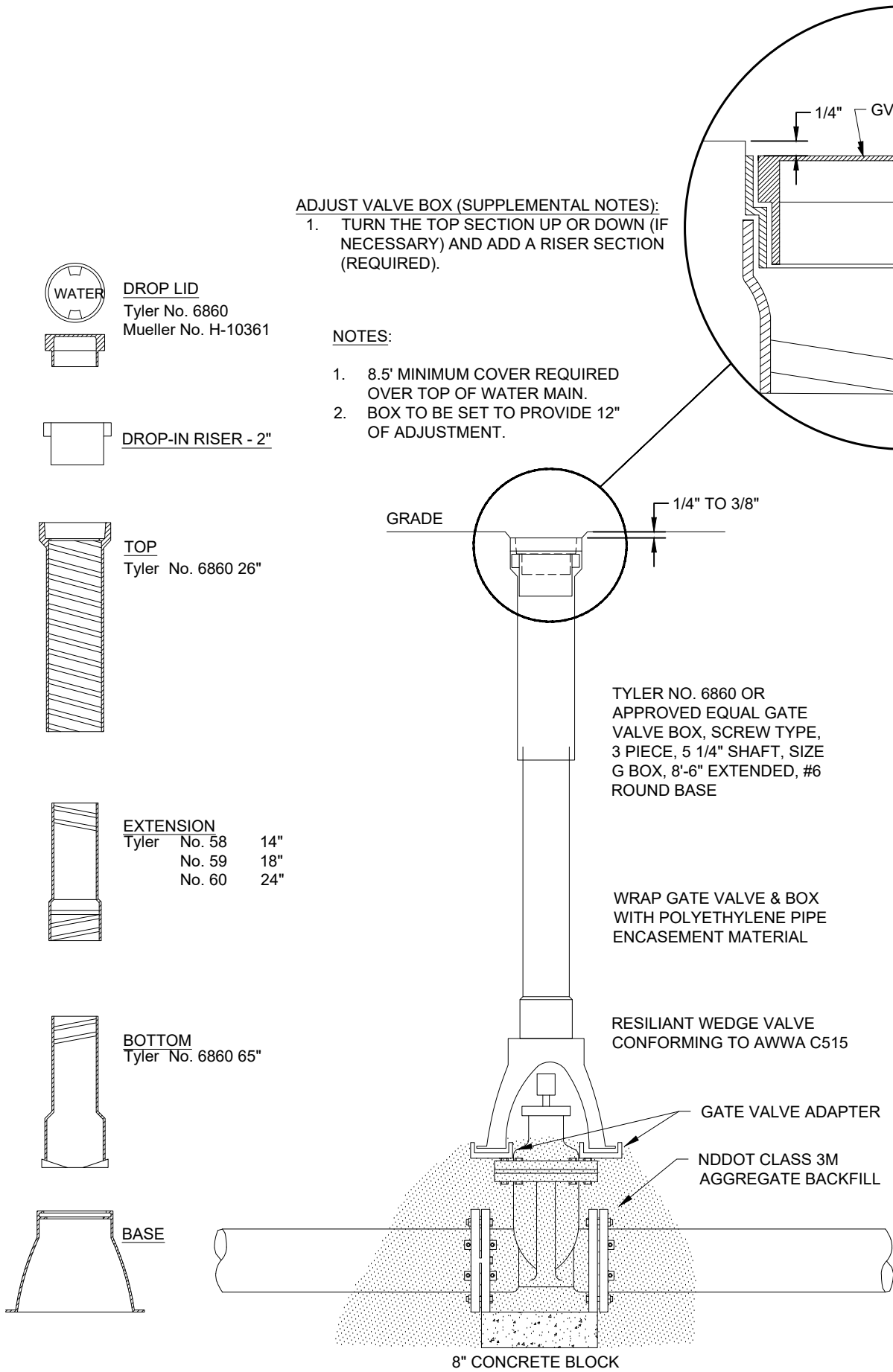
City of Minot



SIGN INSTALLATION
DETAILS

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	7



NOTES:

1. INSTALL RINGS TO ALLOW FOR MIN. 4", MAX. 12" OF ADJUSTMENT. (RECOMMEND 8" OF ADJUSTMENT.)
2. CONCRETE ADJUSTING RINGS SHALL BE 2" UNITS AND SHALL HAVE 3/8" MORTAR \pm 1/8". NO WOODEN SHIMS OR OTHER ORGANIC SHIMS ARE ALLOWED.
3. INTERIOR OF ADJUSTING RINGS SHALL BE NEATLY MORTARED. THE VOID UNDERNEATH THE CASTING SHALL BE SEALED WITH MORTAR. RINGS SHALL BE WIPED CLEAN.
4. RINGS MAY BE INSTALLED WITH A TOTAL OFFSET FROM VERTICAL OF UP TO 2" PER STRUCTURE.
5. WHEN USING ENGINEERED POLYMER RINGS, USE AT LEAST 2 RINGS TO MAKE ADJUSTMENT. USE SLOPED RINGS, NO SHIMS ALLOWED.
6. TOP OF FRAME SHALL BE DOWN 1/4" TO 3/8" FROM FINISHED PAVEMENT EXCEPT 1" BELOW GUTTER GRADE.

City of Minot



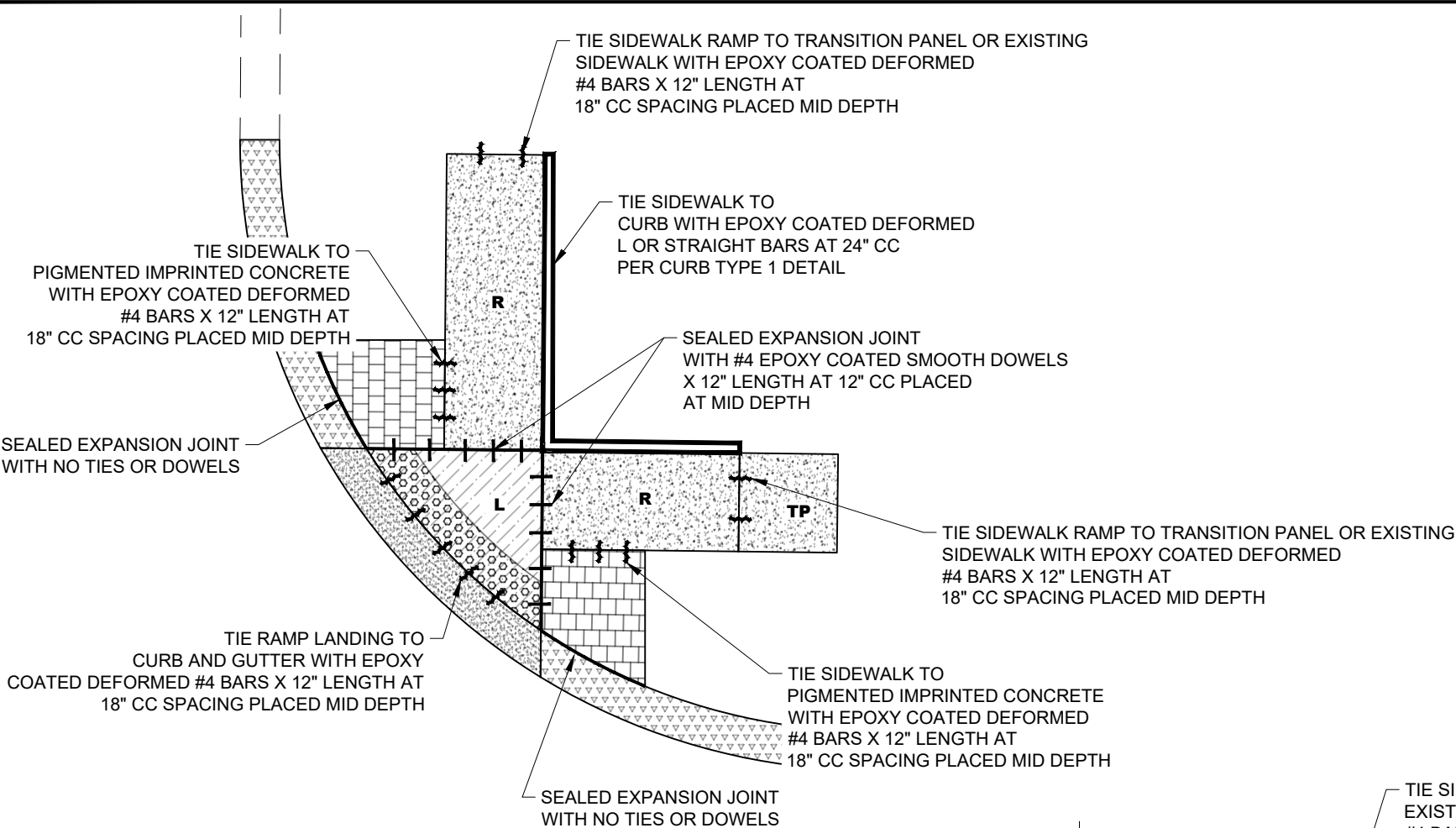
**VALVE BOX &
CASTING ADJUSTMENT
DETAILS**

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	8

LEGEND

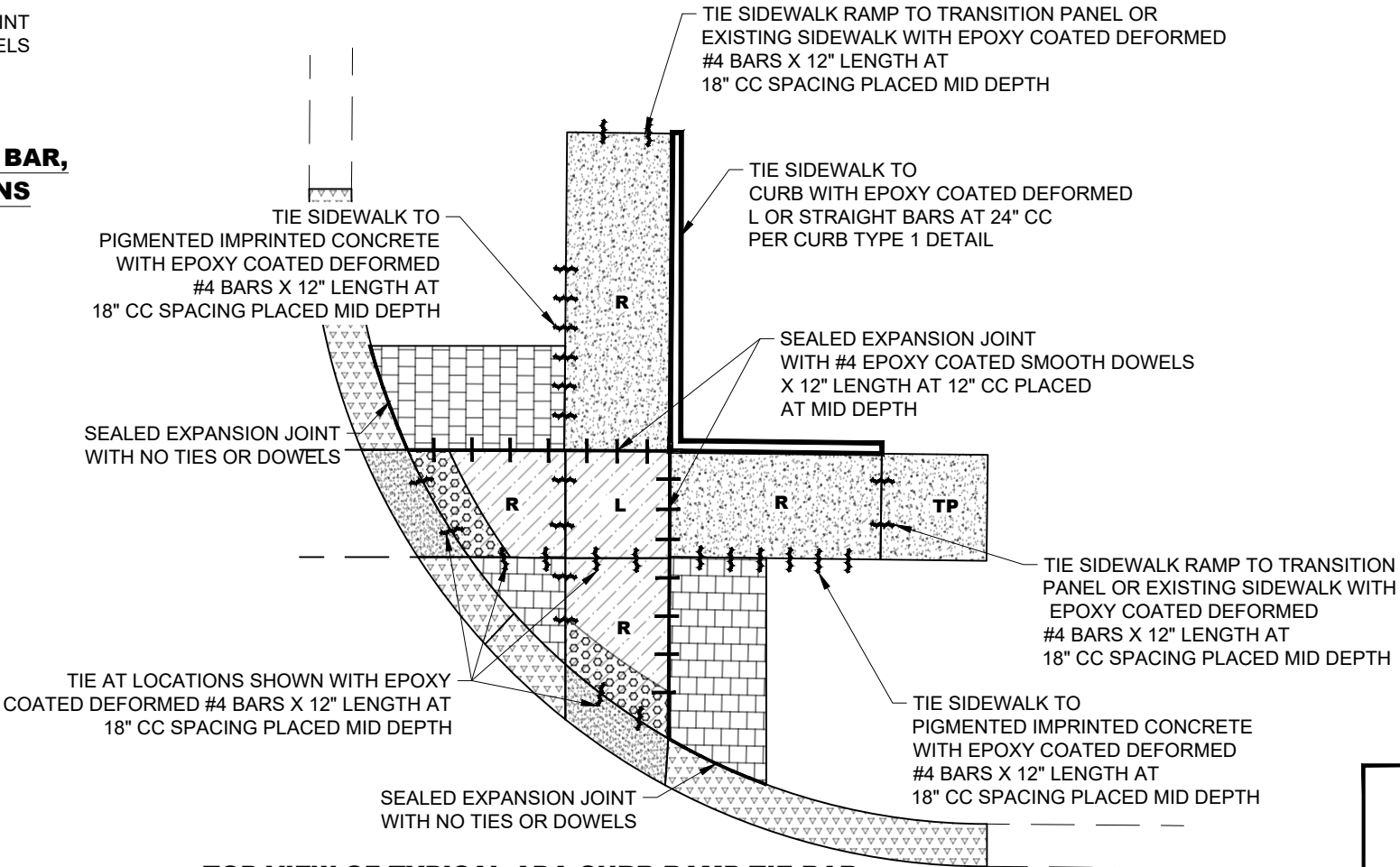
	CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
	CURB AND GUTTER - ADA KNOCK DOWN (WITH SPECIFIED GUTTER TOE ELEVATIONS)
	CURB - TYPE 1 (SEE DETAIL)
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
R	ADA RAMP WITH MAX SLOPE OF 1:12
TP	TRANSITIONAL TIE-IN PANEL
L	ADA LANDING TURNING SPACE (A.K.A. LOW SLOPE AREA) WITH A 2.1% MAX SLOPE IN ALL DIRECTIONS



TOP VIEW OF TYPICAL ADA CURB RAMP TIE BAR, DOWEL AND EXPANSION JOINT LOCATIONS (DEPRESSED CORNER LANDING)

NOTES:

1. WHEN DRILLING DOWEL OR TIES INTO EXISTING CONCRETE, THE BARS SHALL BE ADHERED INTO THE DRILLED HOLES OF EXISTING CONCRETE WITH AN APPROVED EPOXY ADHESIVE.
2. EXPANSION JOINTS SHALL BE 1/2" WIDE AND SEALED.



TOP VIEW OF TYPICAL ADA CURB RAMP TIE BAR, DOWEL AND EXPANSION JOINT LOCATIONS (RAMP TO LANDING)






City of Minot

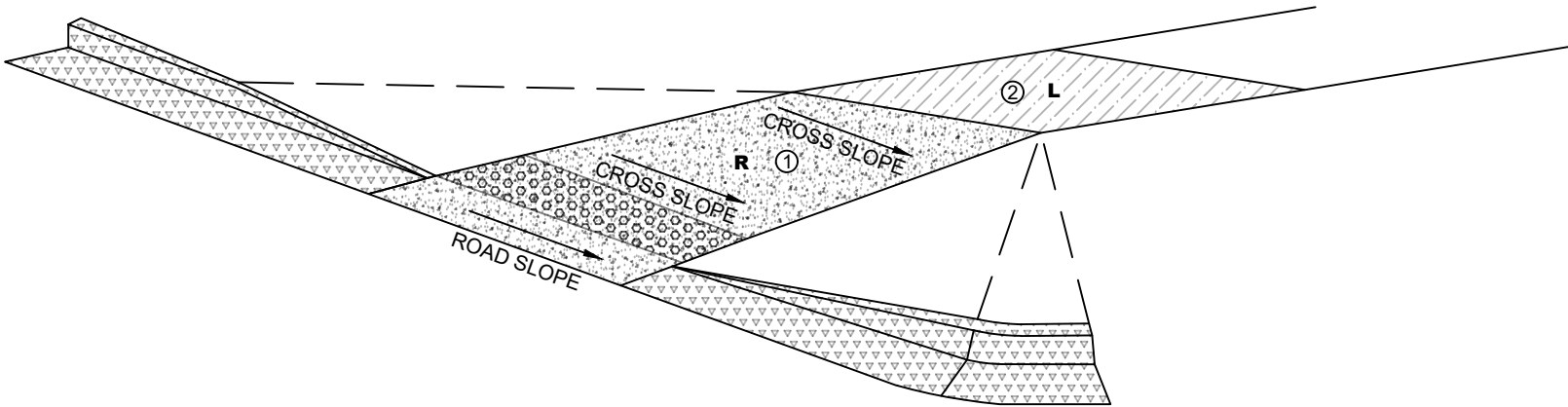


TYPICAL ADA CURB RAMP
TIE BAR, DOWEL, & EXPANSION
JOINT LOCATION DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	9

LEGEND

-  CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-  CURB AND GUTTER - ADA KNOCK DOWN (WITH SPECIFIED GUTTER TOE ELEVATIONS)
-  4" CONCRETE SIDEWALK (NON-REINFORCED)
-  6" CONCRETE SIDEWALK (NON-REINFORCED)
-  DETECTABLE WARNING PANEL
- R** ADA RAMP WITH MAX RUNNING SLOPE OF 1:12 (8.33%)
- L** ADA LANDING TURNING SPACE (A.K.A. LOW SLOPE AREA) WITH A 2.1% MAX SLOPE IN ALL DIRECTIONS



WARPED TRANSITION RAMP

NOTES:

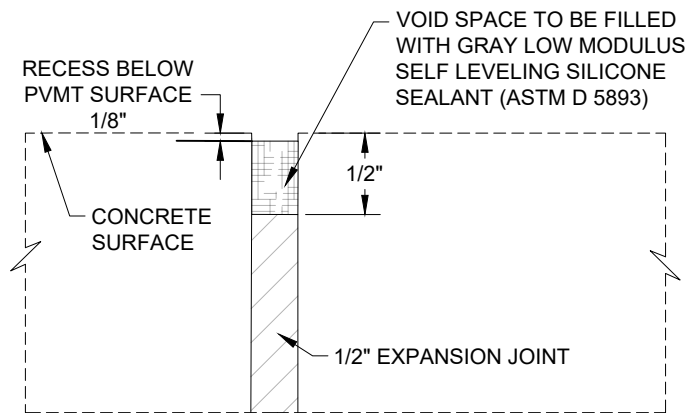
1. THIS DETAIL IS MEANT TO BE USED FOR MAKING A CURB RAMP NEXT TO A ROAD THAT HAS A RUNNING SLOPE GREATER THAN 2.1%. THIS DESIGN WILL GRADUALLY TRANSITION THIS STEEPER ROAD SLOPE INTO THE ALLOWABLE SLOPE FOR A SIDEWALK LANDING UNDER 2.1%
2. RATE OF CROSS-SLOPE TRANSITION VARIES. SEE SECTION 80 FOR MORE INFORMATION.
3. LANDING SHOULD NOT EXCEED 2.1% SLOPE IN ALL DIRECTIONS.

City of Minot



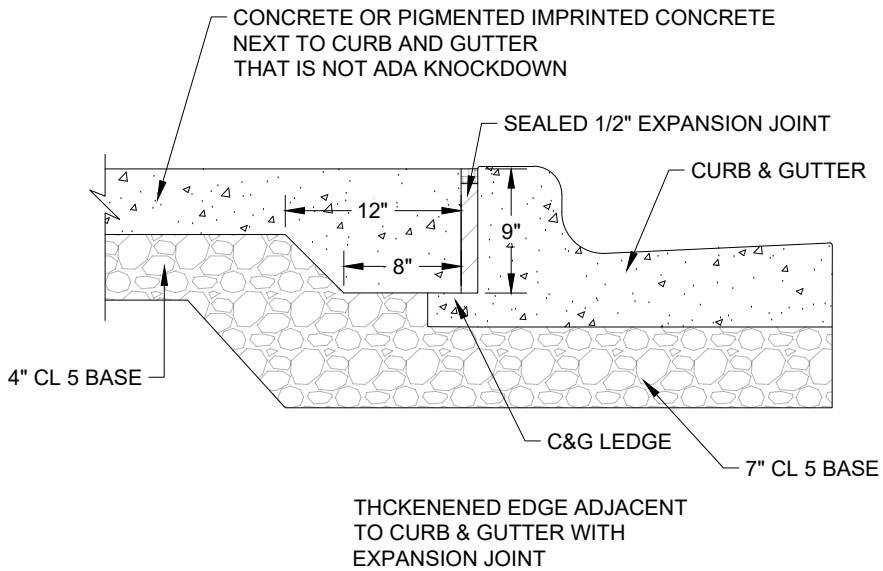
ADA TRANSITION RAMP
DETAIL

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	10



- NOTES**
1. AFTER REMOVAL OF PLASTIC EDGE CAPS OR TEAR STRIP ON EXPANSION JOINT TO MAKE THE VOID FOR PLACEMENT OF SILICONE SEALANT, AIR BLAST TO CLEAN ALL SIDES AND IMMEDIATELY PLACE SILICONE SEALANT TO THE CLEAN VOID SPACE.

SEALED EXPANSION JOINT



**THICKENED EDGE AND EXPANSION JOINT
(CONCRETE ADJACENT TO CURB AND GUTTER)**

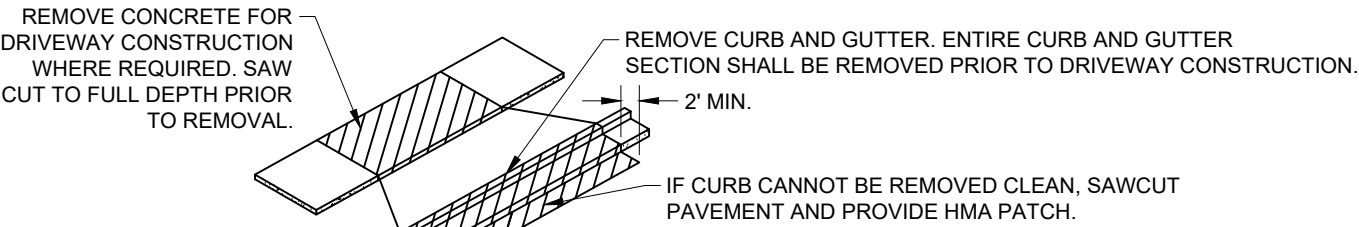
City of Minot



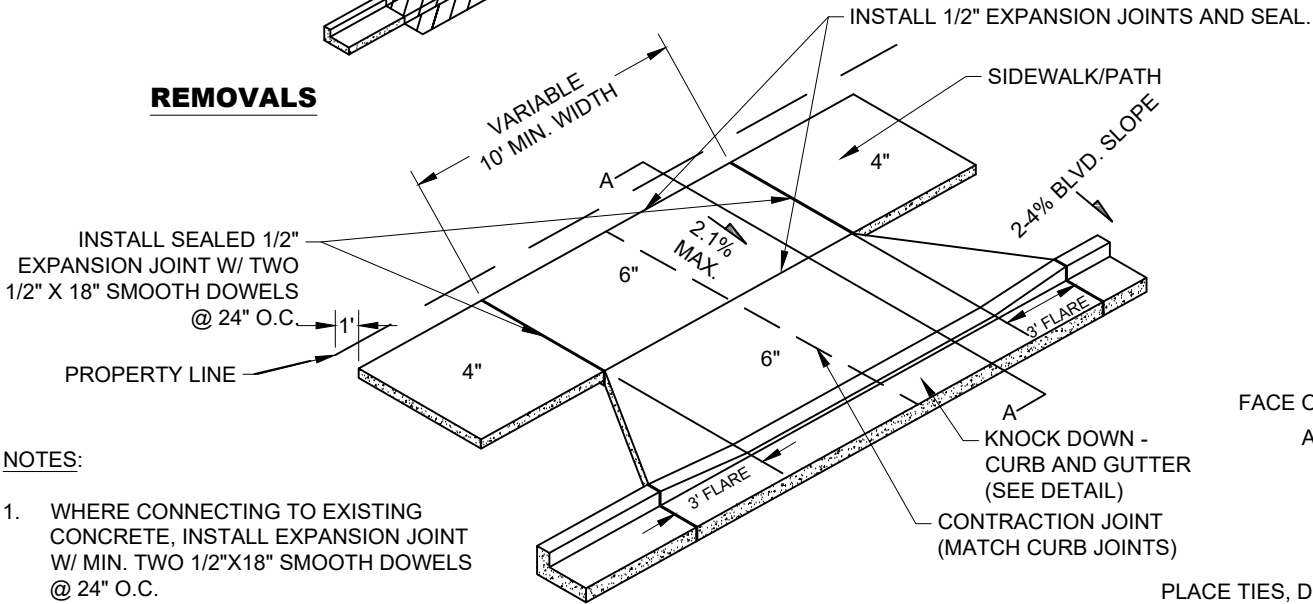
EXPANSION JOINT
DETAILS

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	20	11



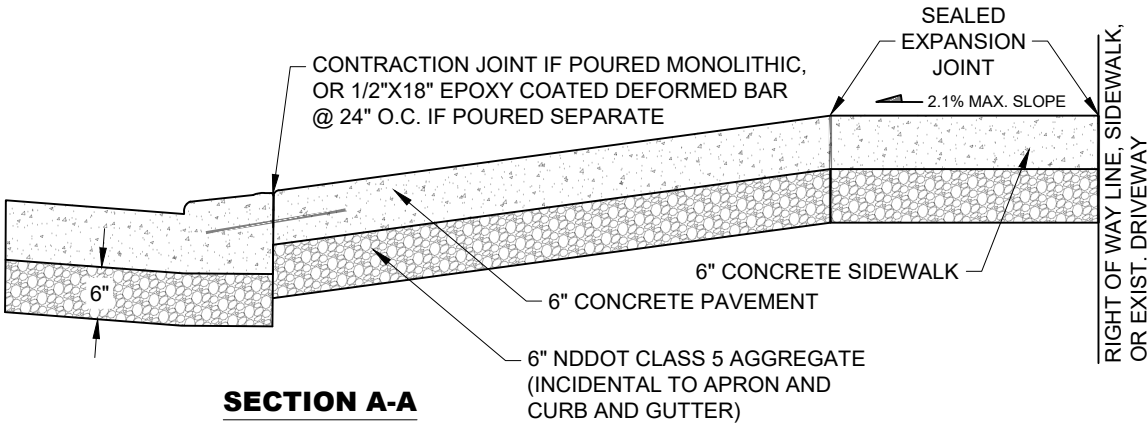
REMOVALS



NOTES:

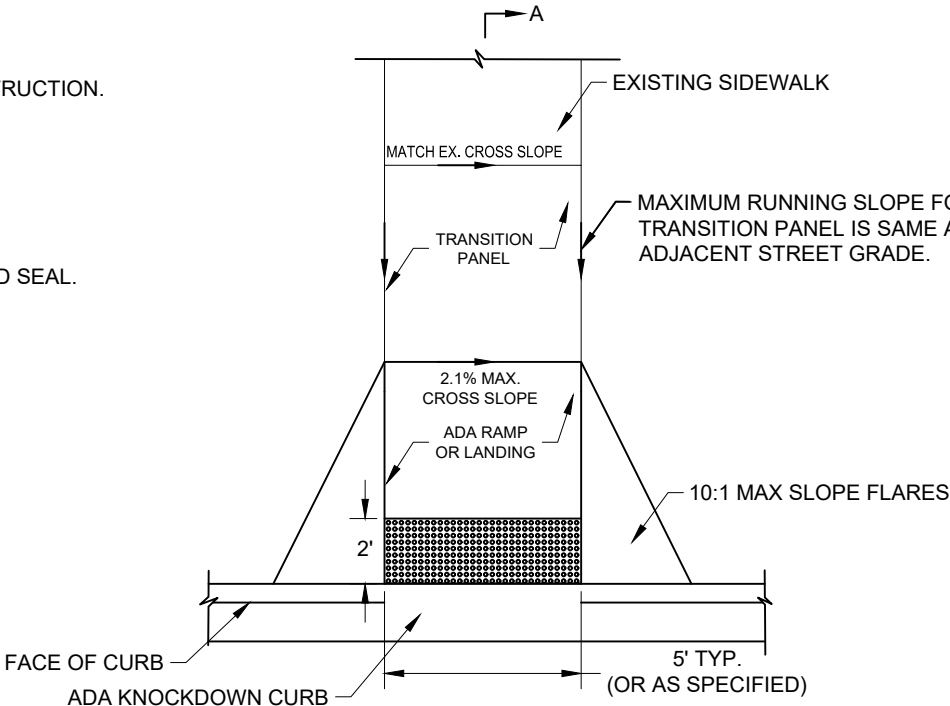
- WHERE CONNECTING TO EXISTING CONCRETE, INSTALL EXPANSION JOINT W/ MIN. TWO 1/2"X18" SMOOTH DOWELS @ 24" O.C.
- DRIVEWAYS GREATER THAN 10' WIDE SHALL HAVE CONTRACTION JOINTS PERPENDICULAR TO CURB WITH MINIMUM 10' SPACING. MATCH CURB JOINTS.
- FORMS ARE REQUIRED ON ALL EDGES.
- ALL HMA PATCHES SHALL BE NDDOT FAA 43 HMA PAVEMENT, PG 58S-28.
- ALL 4" AND 6" SIDEWALK WILL HAVE CONTRACTION JOINTS SPACING SAWED IN AT 5 FT SPACING AND 1/4" THE DEPTH OF THE CONCRETE.

ISOMETRIC

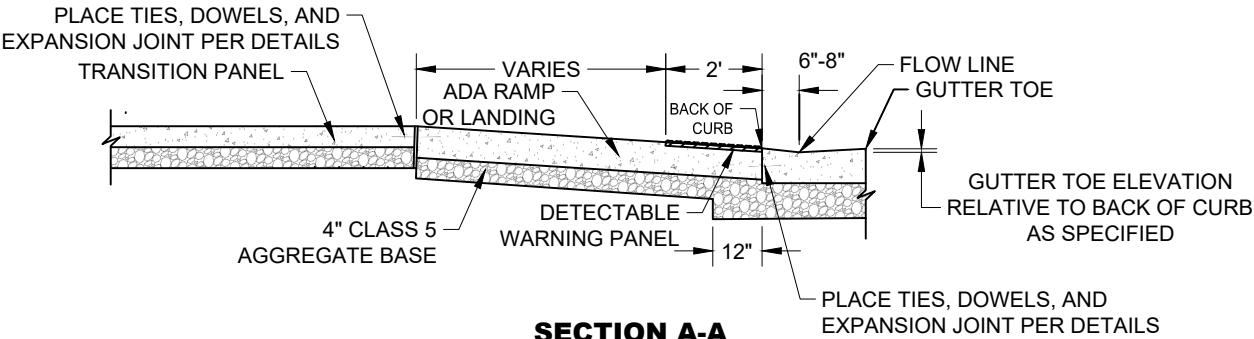


SECTION A-A

**CONCRETE DRIVEWAY APRON
BOULEVARD GREATER THAN 4'**



PLAN



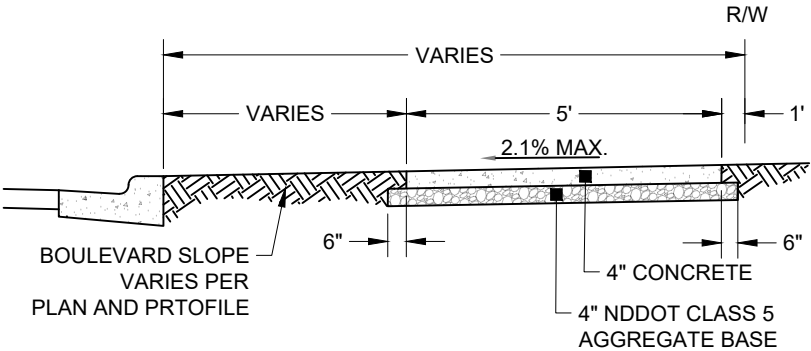
SECTION A-A

ADA CURB RAMP/TRANSITION PANEL

NOTES:

- LIGHT BROOM FINISH PERPENDICULAR TO CURB.
- SAW JOINTS TO MIN. DEPTH OF 3/4".
- RECOMMENDED CROSS-SLOPE IS 1.5%. 2.1% IS THE MAXIMUM.
- CONTRACTION JOINT SPACING:

SIDEWALK/PATH WIDTH	L x W
5'	5' x 5'
6'	5' x 6'
8'	4.5' x 4'
10'	5' x 5'
- PLACE 1/2" SEALED EXPANSION JOINTS EVERY 60 LINEAL FEET ALONG SIDEWALK PATH



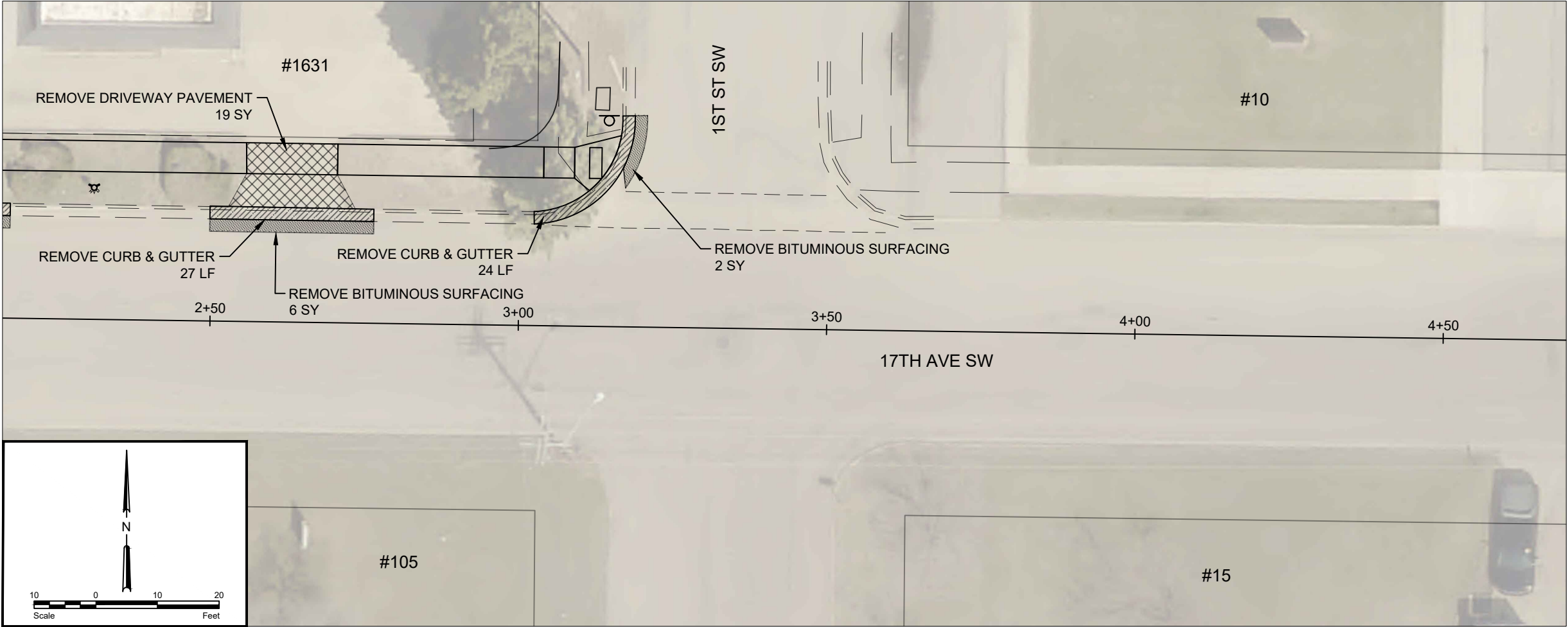
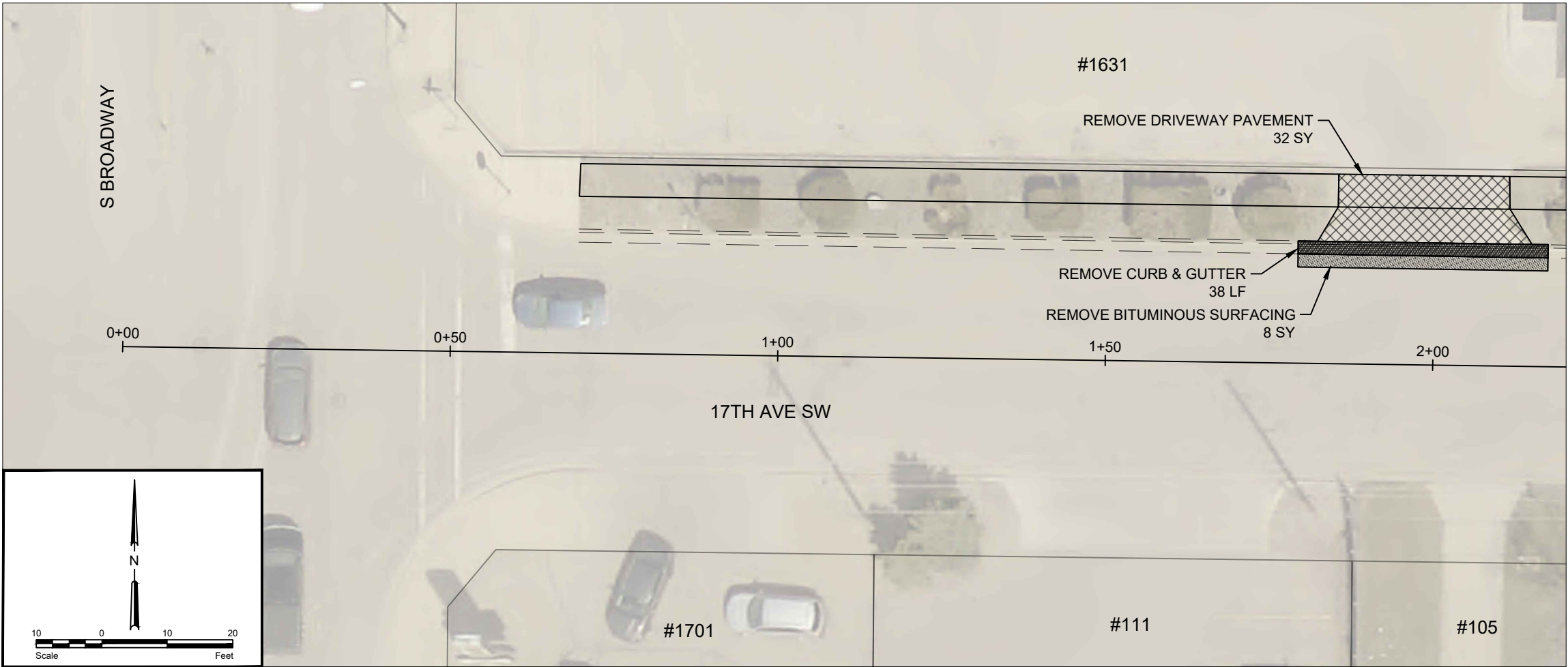
TYPICAL CONCRETE SIDEWALK

City of Minot



DRIVEWAY & ADA RAMP SECTIONS









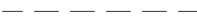
P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	51
202	130	REMOVAL OF CURB AND GUTTER	LF	89
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	16

LEGEND

-  REMOVE CURB & GUTTER
-  REMOVE SIDEWALK/DRIVEWAY
-  REMOVE ROCK/LANDSCAPING
-  SALVAGE & REINSTALL ROCK
-  REMOVE VALLEY GUTTER
-  REMOVE BITUMINOUS PAVEMENT
-  PROPERTY LINE
-  EXISTING CURB AND GUTTER
-  EXISTING VALLEY GUTTER

City of Minot

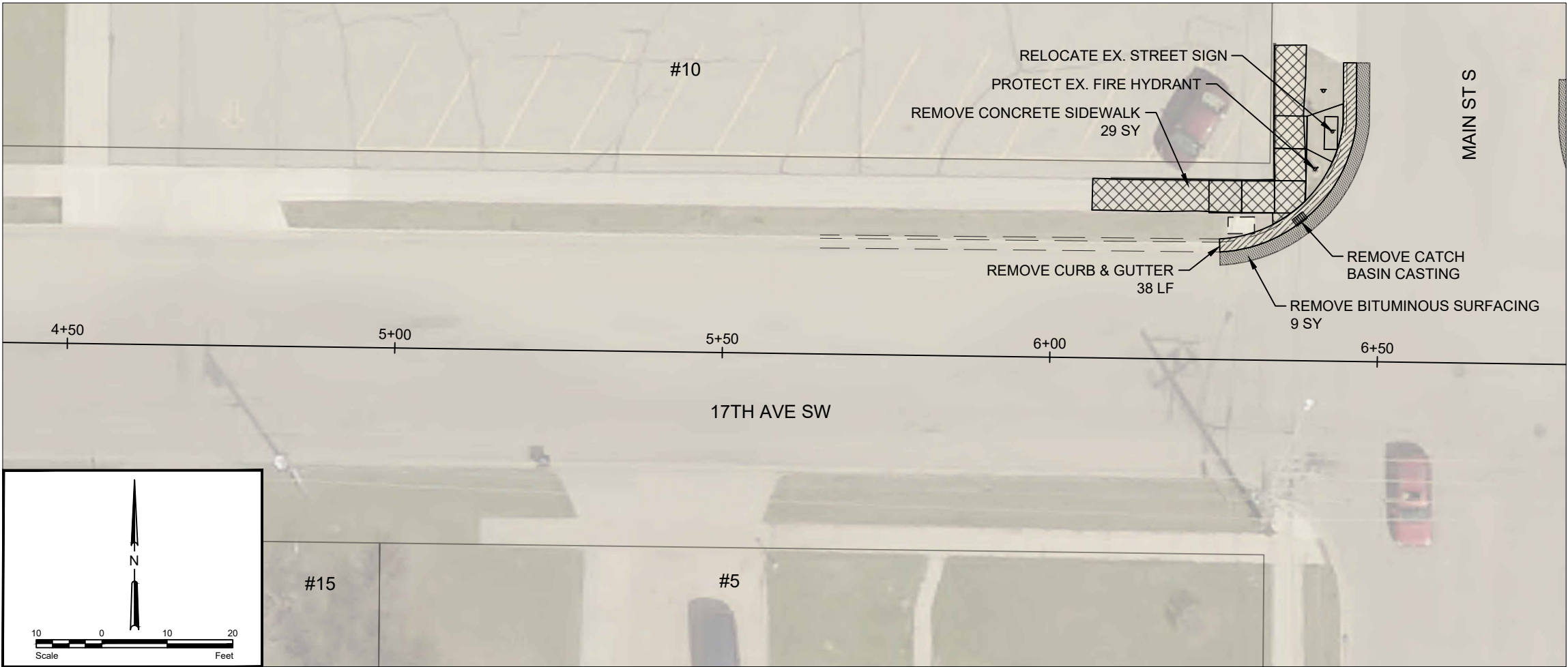


REMOVAL DETAIL
17TH AVE SW
STA. 0+00 TO STA. 4+50








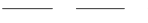

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

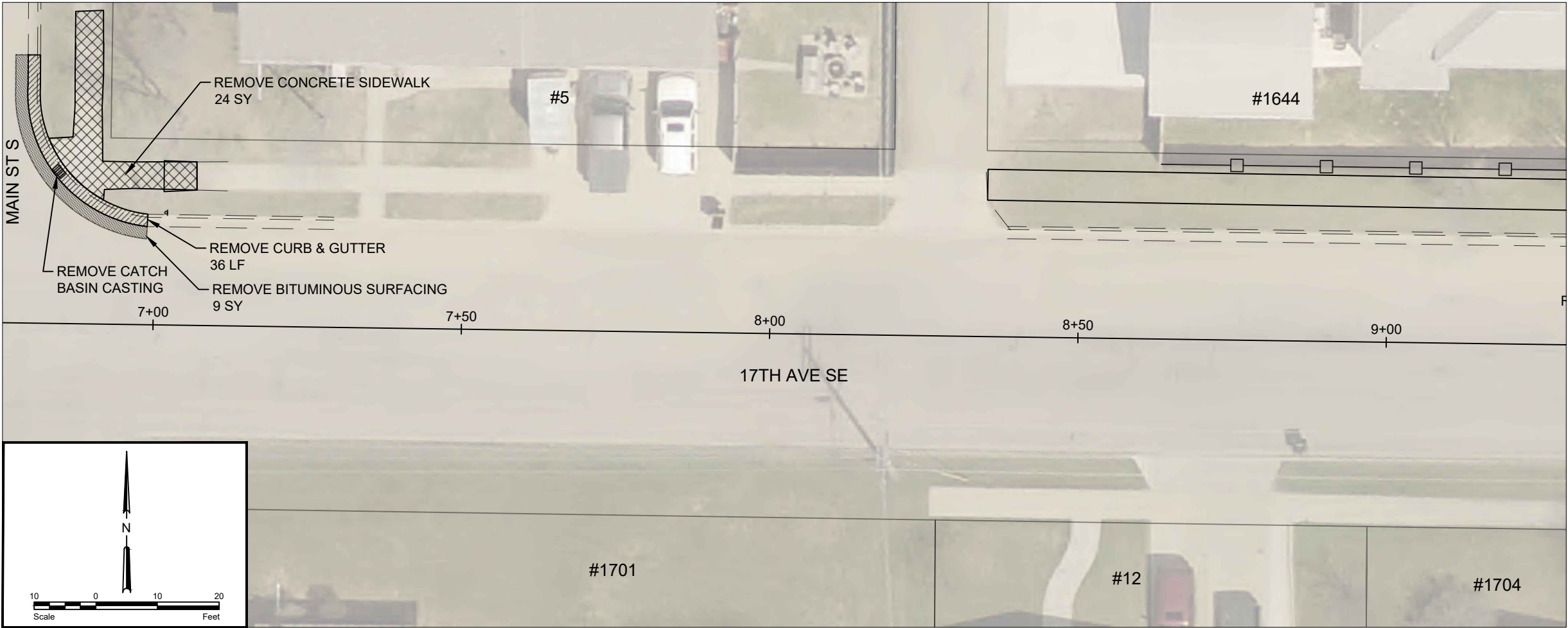
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	53
202	130	REMOVAL OF CURB AND GUTTER	LF	48
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	18



LEGEND

-  REMOVE CURB & GUTTER
-  REMOVE SIDEWALK/DRIVEWAY
-  REMOVE ROCK/LANDSCAPING
-  SALVAGE & REINSTALL ROCK
-  REMOVE VALLEY GUTTER
-  REMOVE BITUMINOUS PAVEMENT
-  PROPERTY LINE
-  EXISTING CURB AND GUTTER
-  EXISTING VALLEY GUTTER

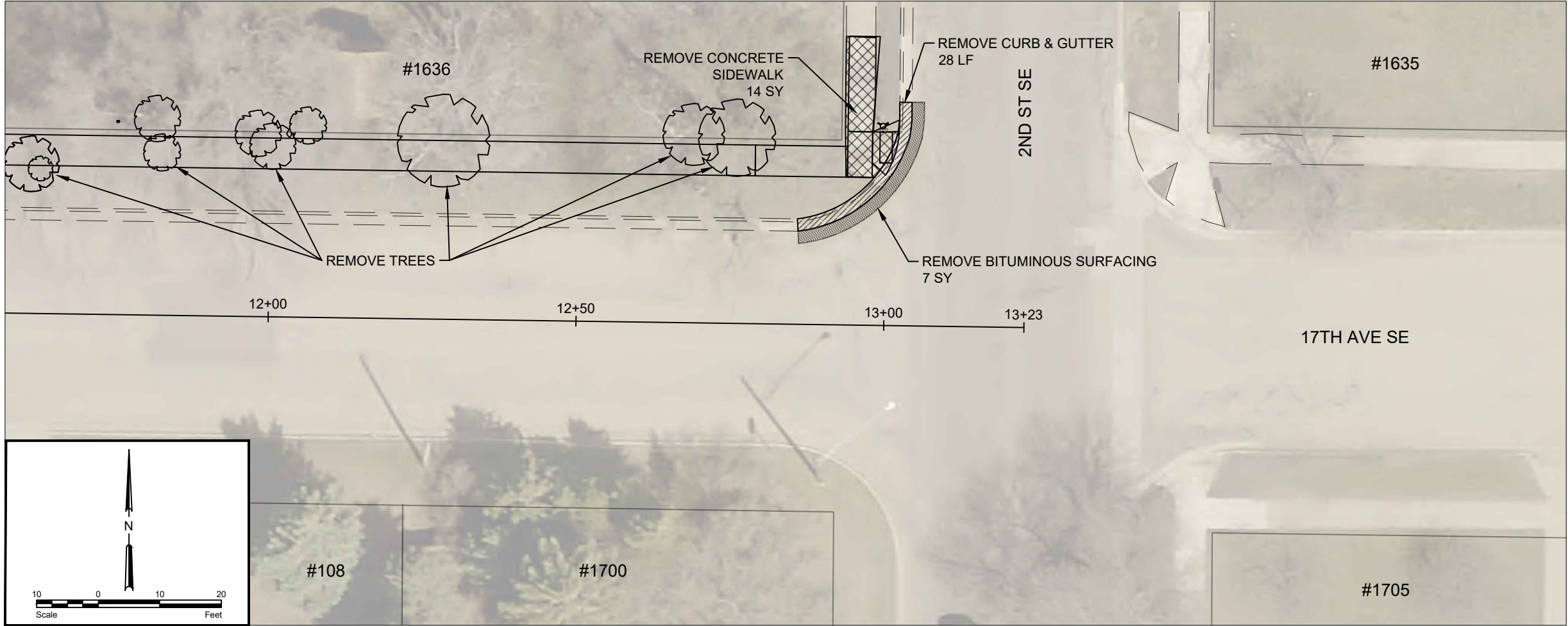
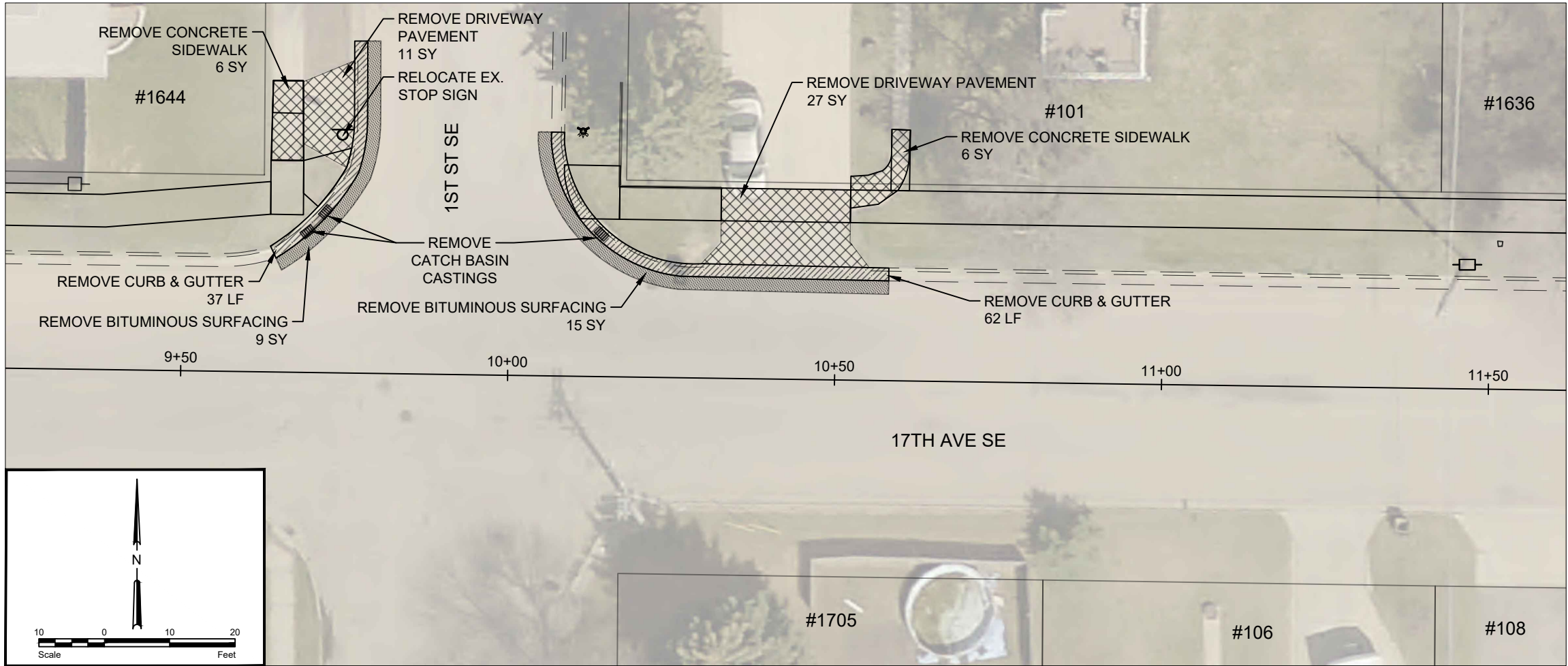


City of Minot



REMOVAL DETAIL
17TH AVE SW/SE
STA. 4+50 TO STA. 9+25

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	3

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	64
202	130	REMOVAL OF CURB AND GUTTER	LF	127
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	31

LEGEND

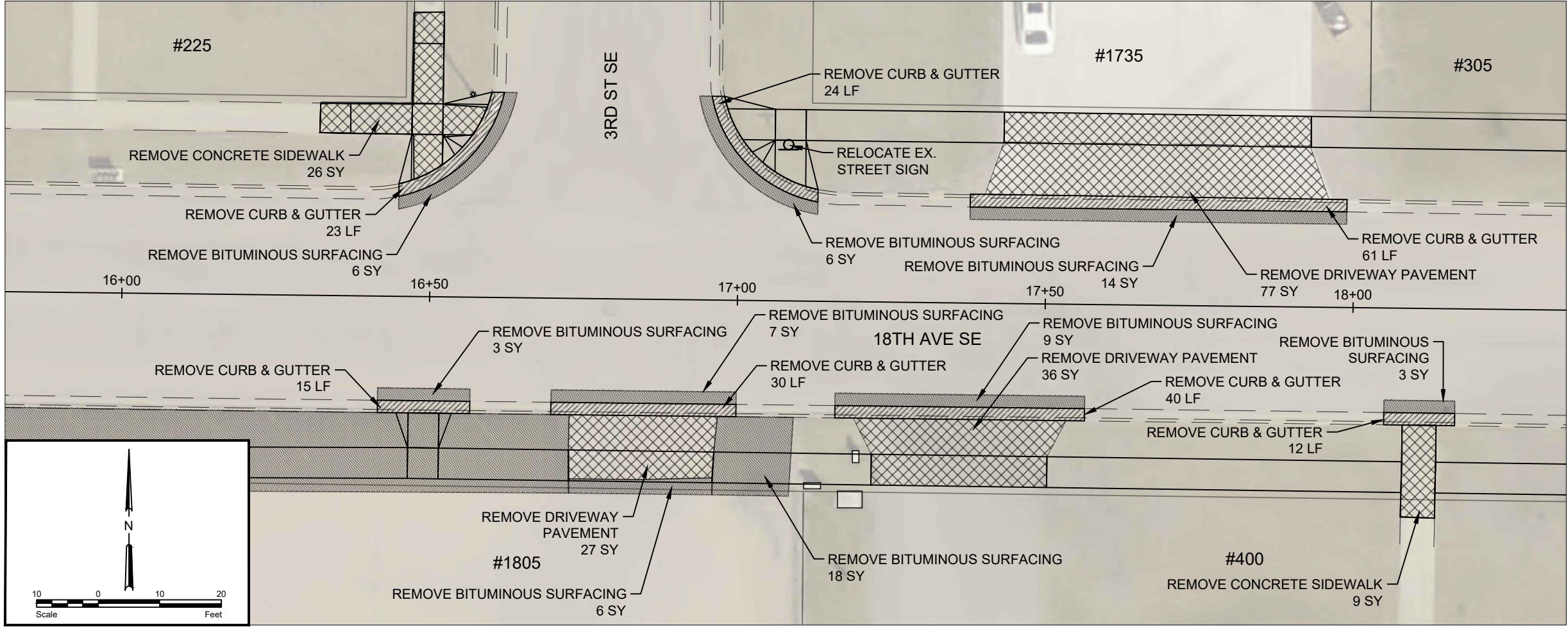
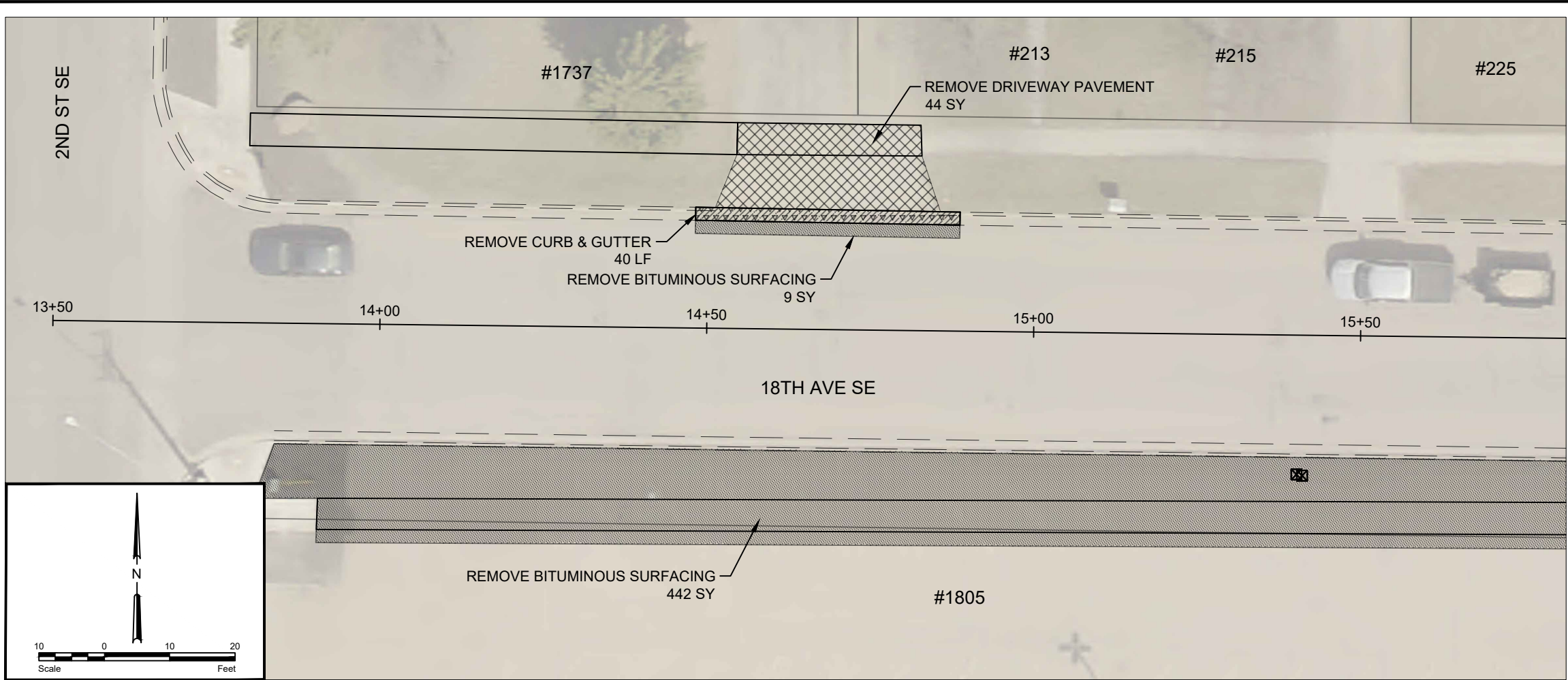
- REMOVE CURB & GUTTER
- REMOVE SIDEWALK/DRIVEWAY
- REMOVE ROCK/LANDSCAPING
- SALVAGE & REINSTALL ROCK
- REMOVE VALLEY GUTTER
- REMOVE BITUMINOUS PAVEMENT
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER

City of Minot



REMOVAL DETAIL
17TH AVE SE
STA. 9+25 TO STA. 13+23









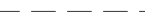
P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	4

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	219
202	130	REMOVAL OF CURB AND GUTTER	LF	245
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	523
754	593	RESET SIGN SUPPORT	EA	1

LEGEND

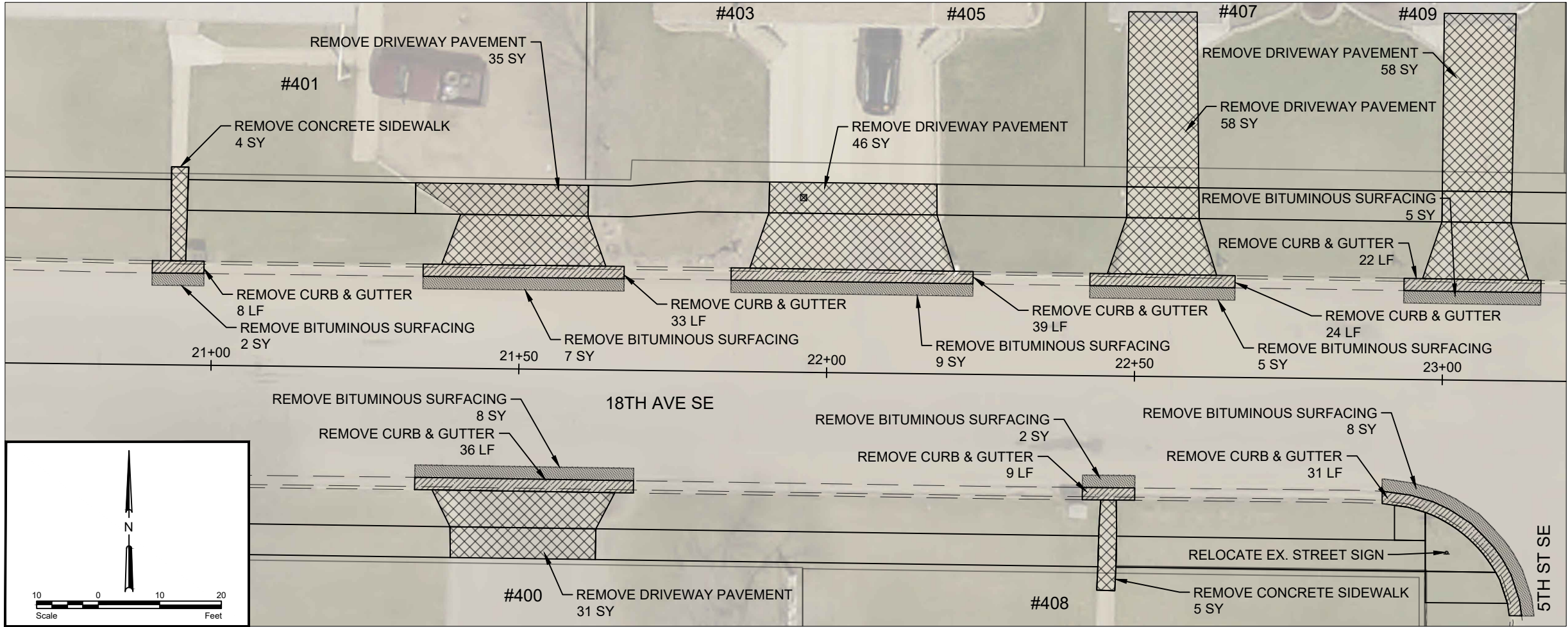
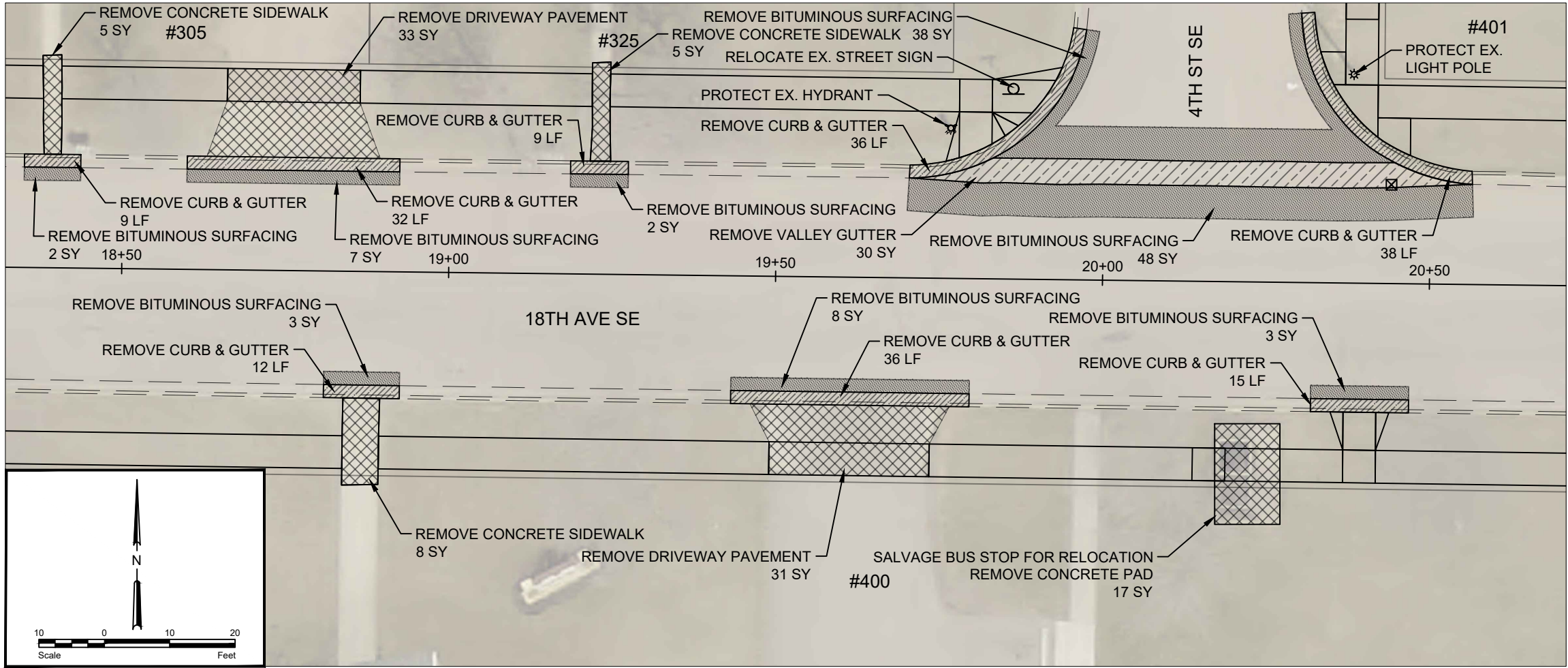
-  REMOVE CURB & GUTTER
-  REMOVE SIDEWALK/DRIVEWAY
-  REMOVE ROCK/LANDSCAPING
-  SALVAGE & REINSTALL ROCK
-  REMOVE VALLEY GUTTER
-  REMOVE BITUMINOUS PAVEMENT
-  PROPERTY LINE
-  EXISTING CURB AND GUTTER
-  EXISTING VALLEY GUTTER

City of Minot



REMOVAL DETAIL
18TH AVE SE
STA. 13+50 TO STA. 18+25

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	5

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	349
202	130	REMOVAL OF CURB AND GUTTER	LF	389
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	157
754	593	RESET SIGN SUPPORT	EA	2

LEGEND

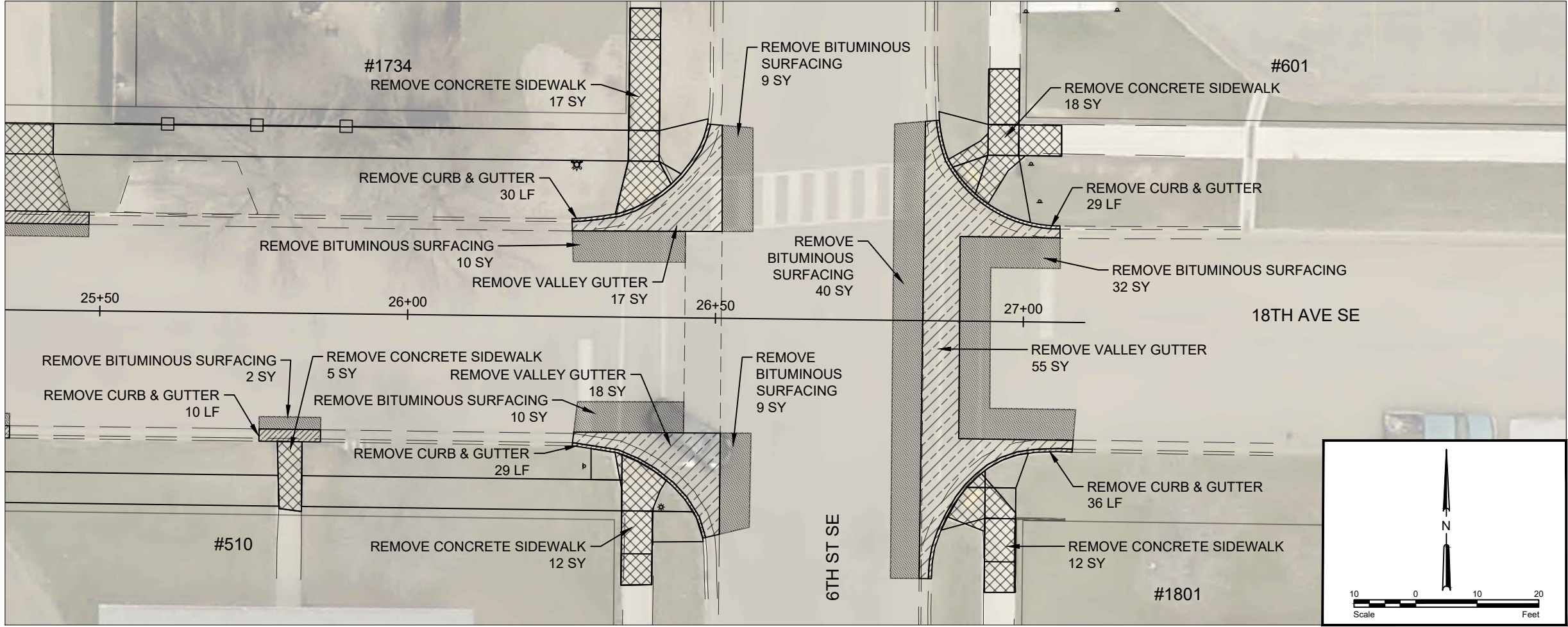
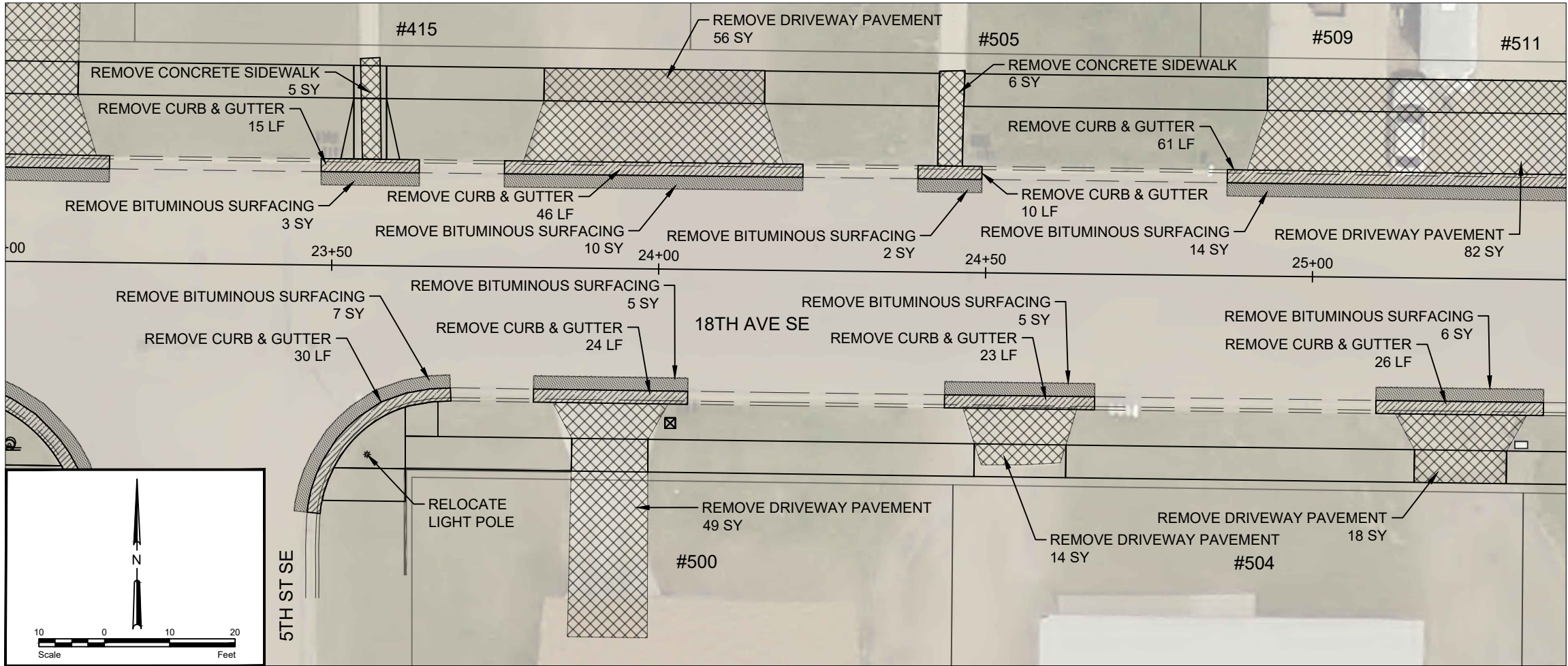
- REMOVE CURB & GUTTER
- REMOVE SIDEWALK/DRIVEWAY
- REMOVE ROCK/LANDSCAPING
- SALVAGE & REINSTALL ROCK
- REMOVE VALLEY GUTTER
- REMOVE BITUMINOUS PAVEMENT
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER

City of Minot



REMOVAL DETAIL
18TH AVE SE
STA. 18+25 TO STA. 23+00

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	40	6

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	298
202	130	REMOVAL OF CURB AND GUTTER	LF	369
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	164

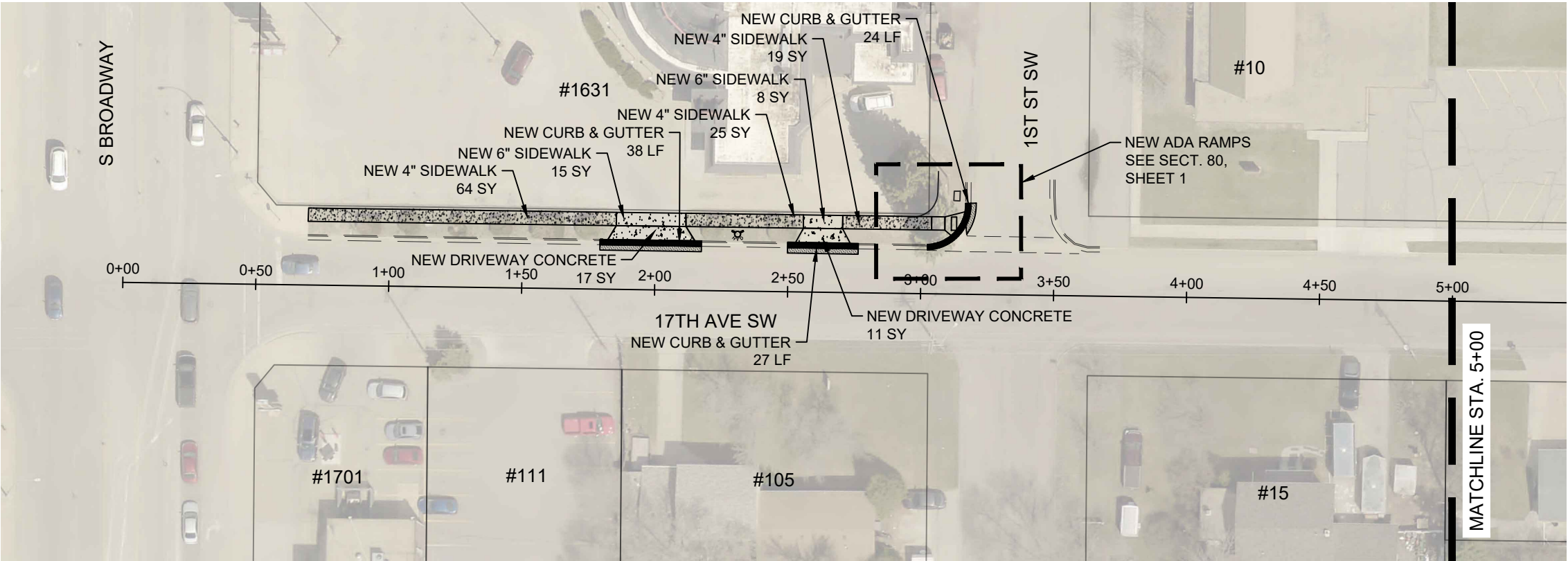
LEGEND	
	REMOVE CURB & GUTTER
	REMOVE SIDEWALK/DRIVEWAY
	REMOVE ROCK/LANDSCAPING
	SALVAGE & REINSTALL ROCK
	REMOVE VALLEY GUTTER
	REMOVE BITUMINOUS PAVEMENT
	PROPERTY LINE
	EXISTING CURB AND GUTTER
	EXISTING VALLEY GUTTER

City of Minot

REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFART
PE-29748
DATE 1/7/2025
NORTH DAKOTA

REMOVAL DETAIL
18TH AVE SE
STA. 23+00 TO STA. 27+10

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

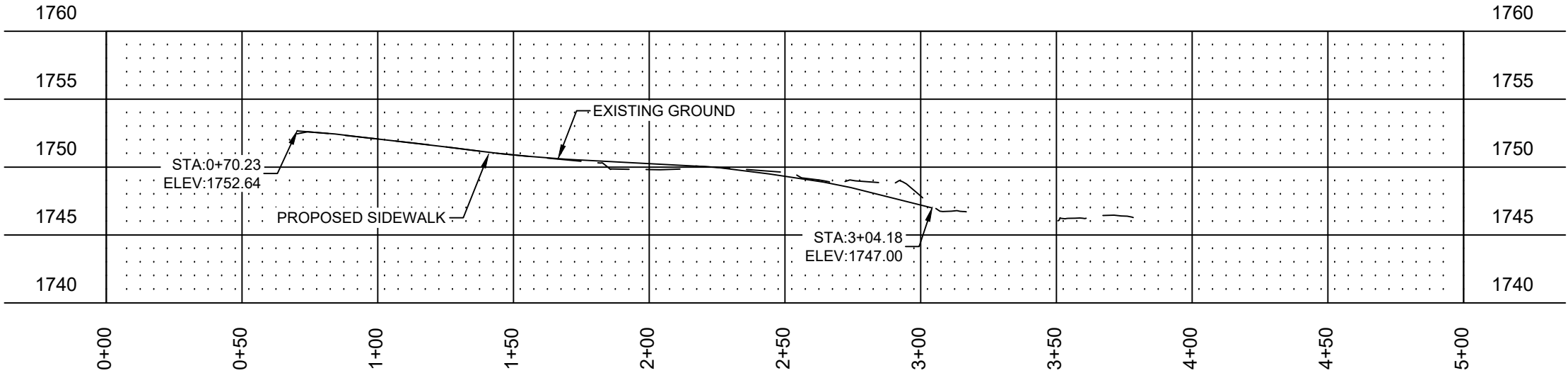


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	1

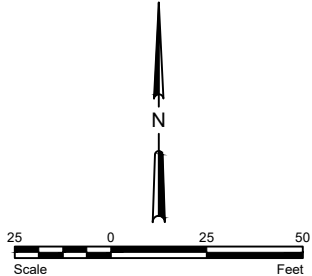
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	4
748	100	CURB & GUTTER	LF	89
750	115	SIDEWALK CONCRETE 4"	SY	108
750	140	SIDEWALK CONCRETE 6"	SY	23
750	1000	DRIVEWAY CONCRETE	SY	28

LEGEND

- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'



City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

Jesse Hoffart

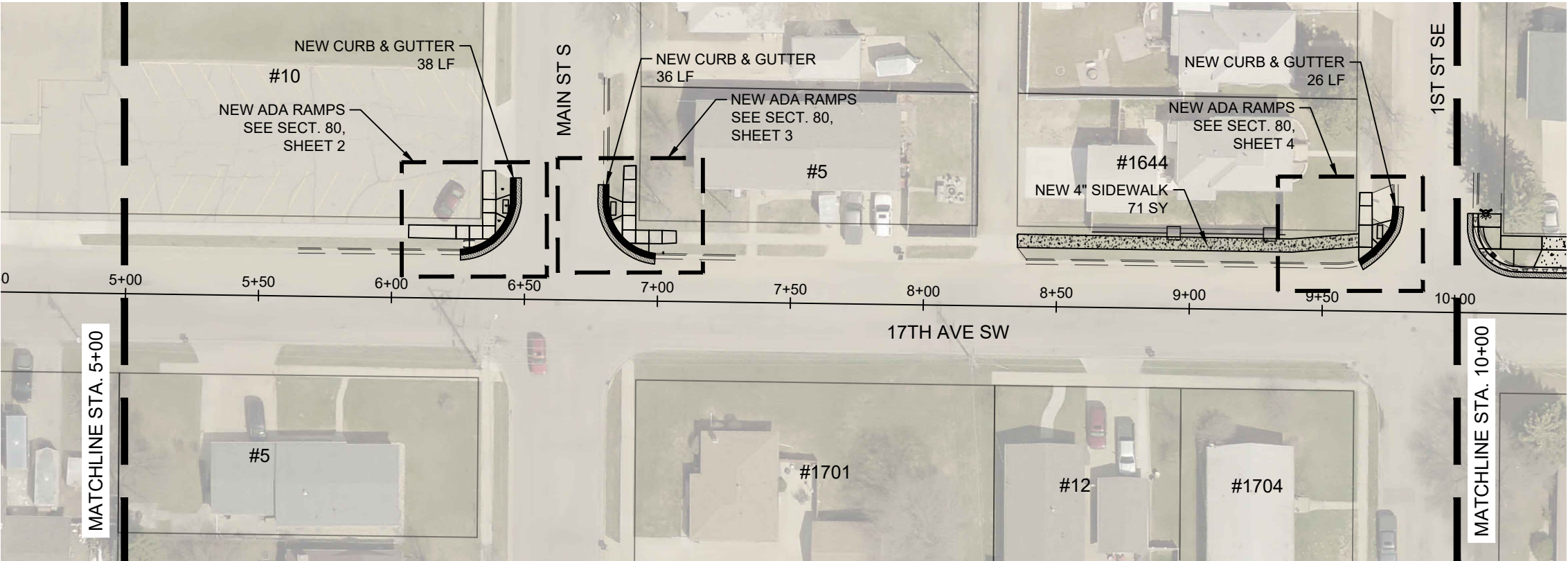
PE-29748

DATE 1/7/2025

NORTH DAKOTA

PLAN & PROFILE
17TH AVE SW
STA. 0+00 TO STA. 5+00

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

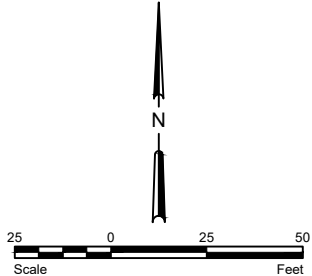
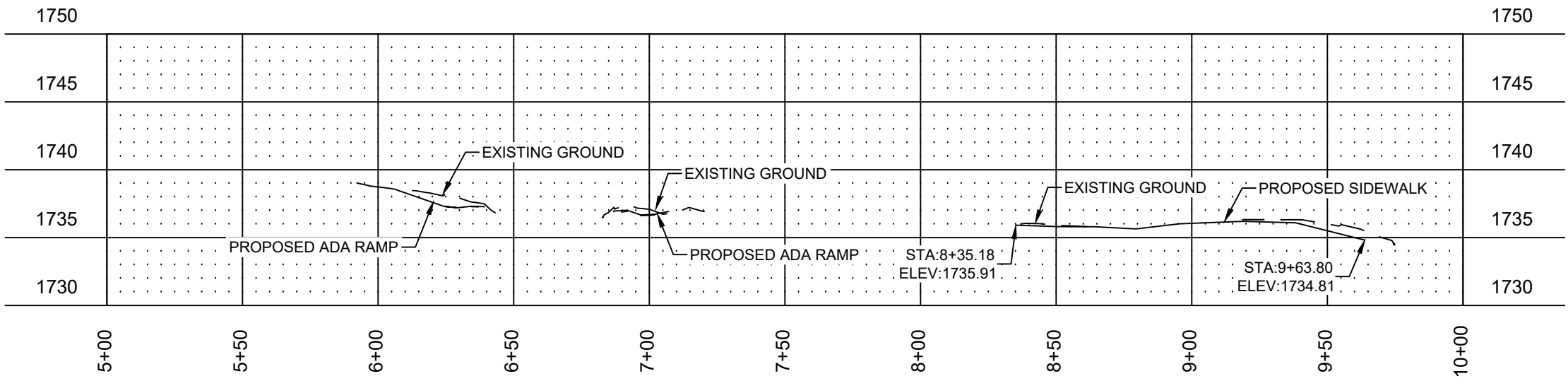


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	5
708	1540	INLET PROTECTION-SPECIAL	EA	4
748	100	CURB & GUTTER	LF	100
750	115	SIDEWALK CONCRETE 4"	SY	71

LEGEND

- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



City of Minot

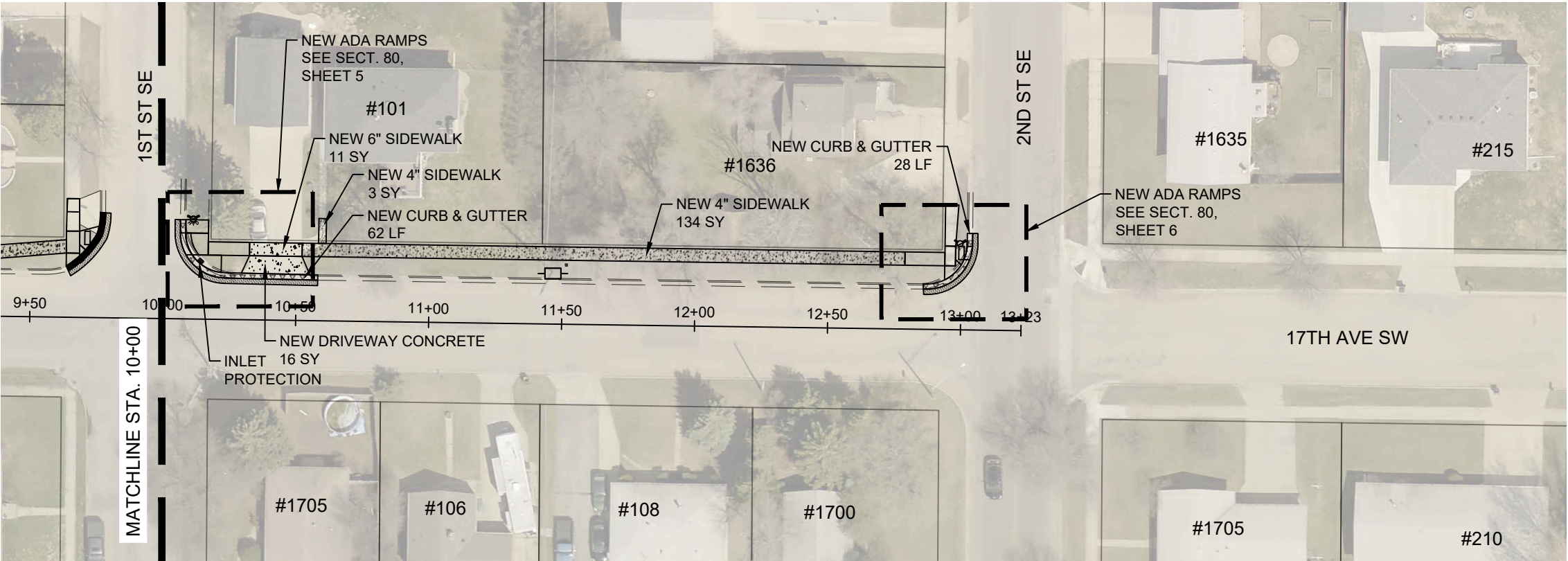
REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

NORTH DAKOTA

PLAN & PROFILE
17TH AVE SW
STA. 5+00 TO STA. 10+00

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

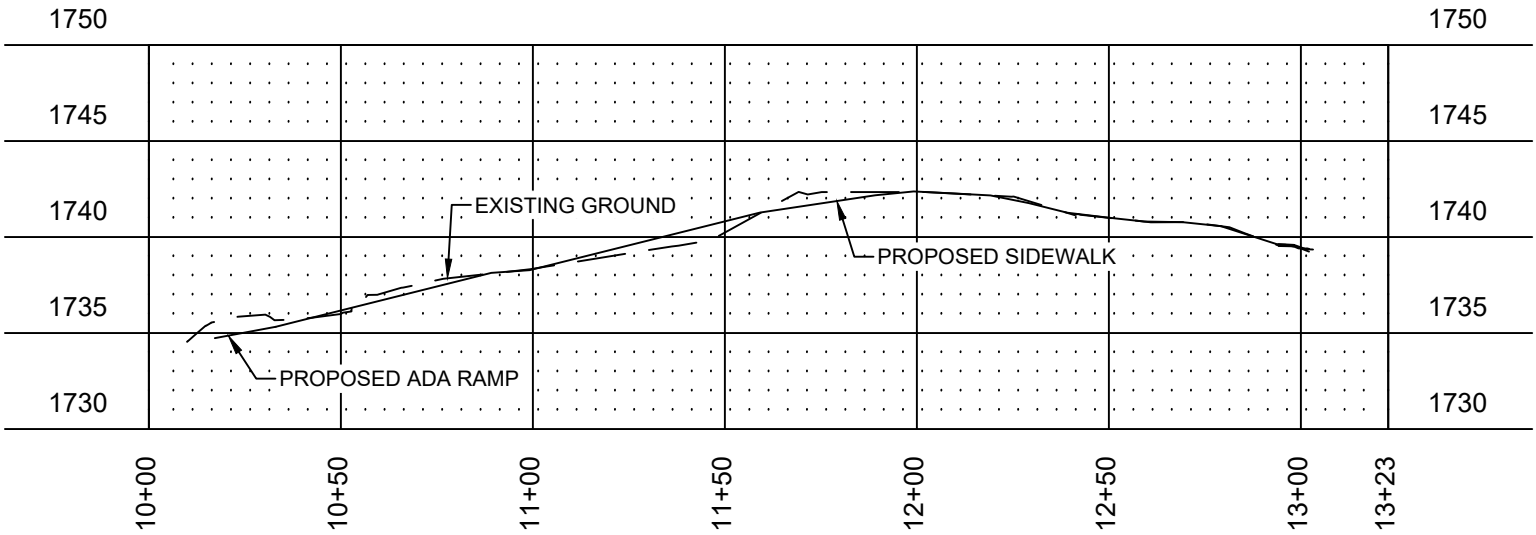


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	3

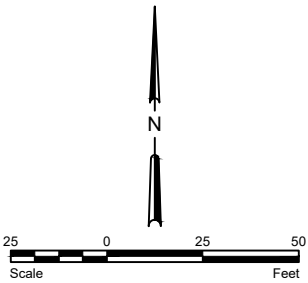
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	5
708	1540	INLET PROTECTION-SPECIAL	EA	1
748	100	CURB & GUTTER	LF	90
750	115	SIDEWALK CONCRETE 4"	SY	137
750	140	SIDEWALK CONCRETE 6"	SY	11
750	1000	DRIVEWAY CONCRETE	SY	16

LEGEND

- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

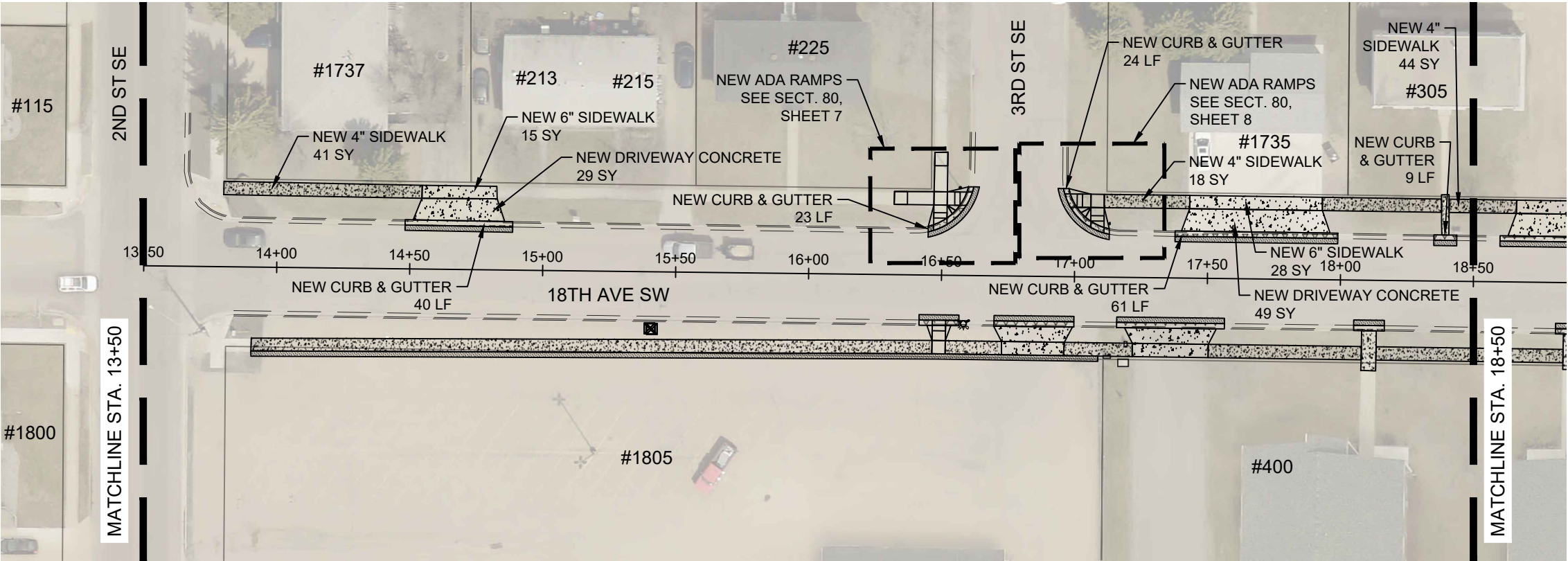


City of Minot



PLAN & PROFILE
17TH AVE SE
STA. 10+00 TO STA. 13+23

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

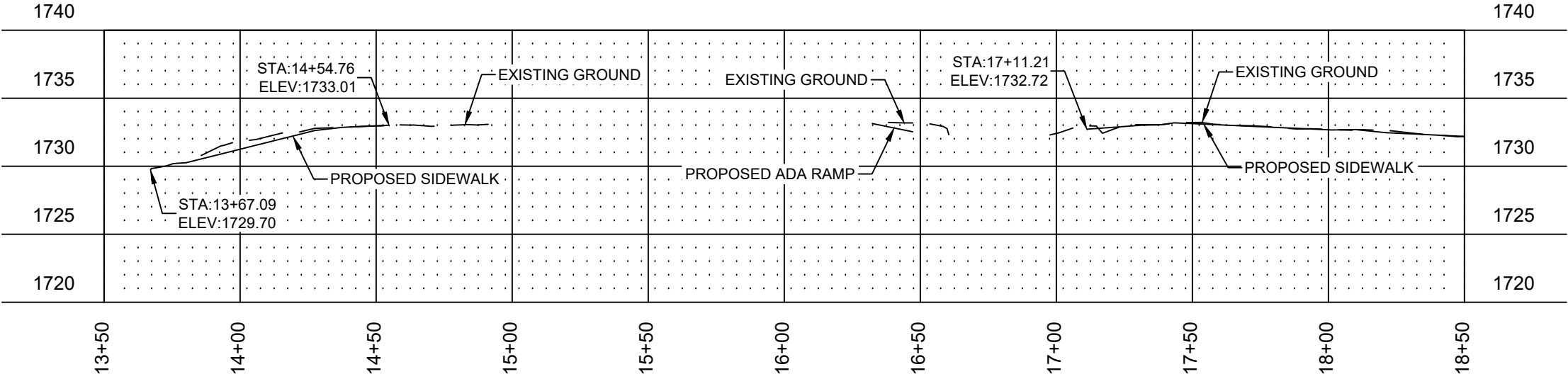


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	4

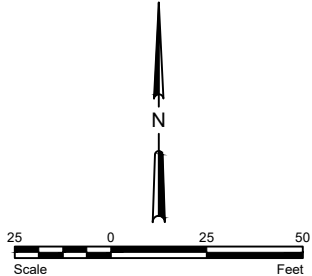
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	8
748	100	CURB & GUTTER	LF	157
750	115	SIDEWALK CONCRETE 4"	SY	103
750	140	SIDEWALK CONCRETE 6"	SY	43
750	1000	DRIVEWAY CONCRETE	SY	78

LEGEND

- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

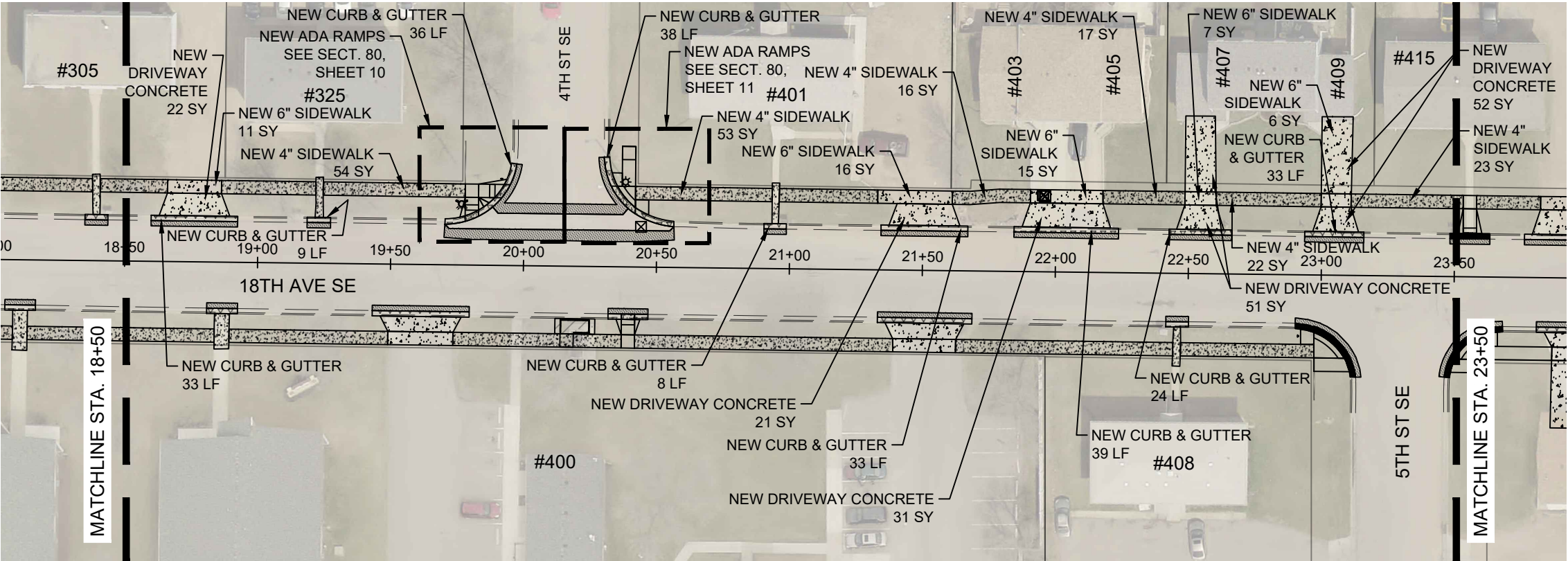


City of Minot



PLAN & PROFILE
18TH AVE SE NORTH SIDE
STA. 13+50 TO STA. 18+50

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

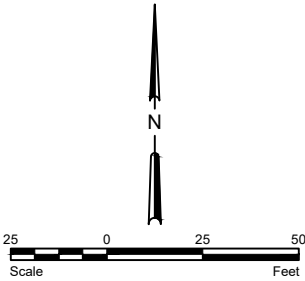
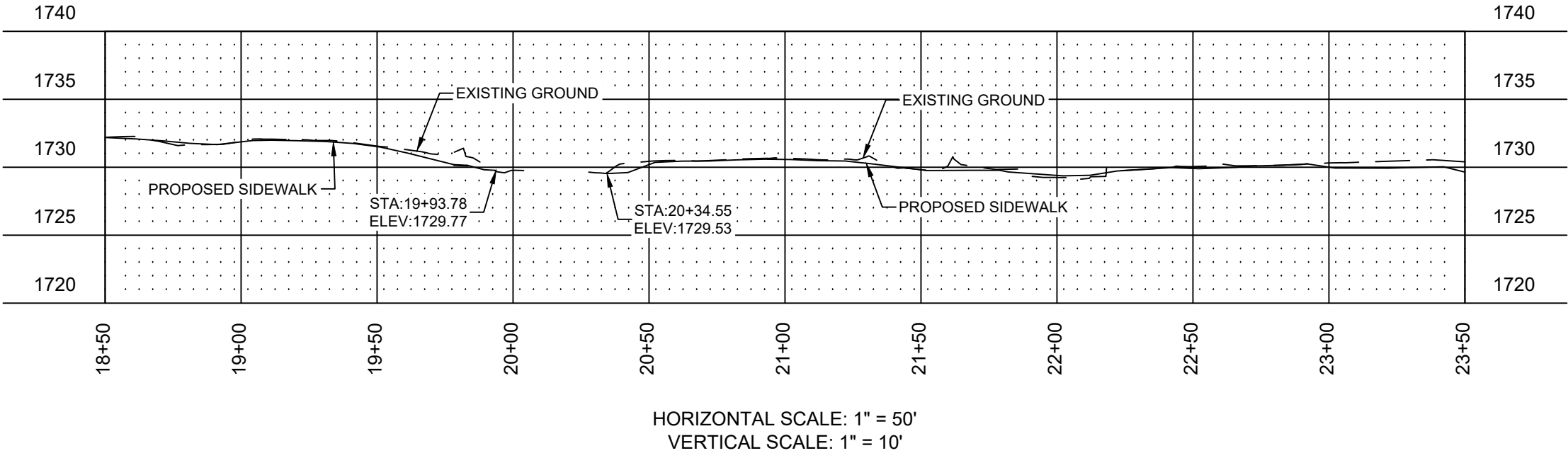


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	5

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	23
748	100	CURB & GUTTER	LF	253
750	115	SIDEWALK CONCRETE 4"	SY	185
750	140	SIDEWALK CONCRETE 6"	SY	55
750	1000	DRIVEWAY CONCRETE	SY	177

LEGEND

- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER

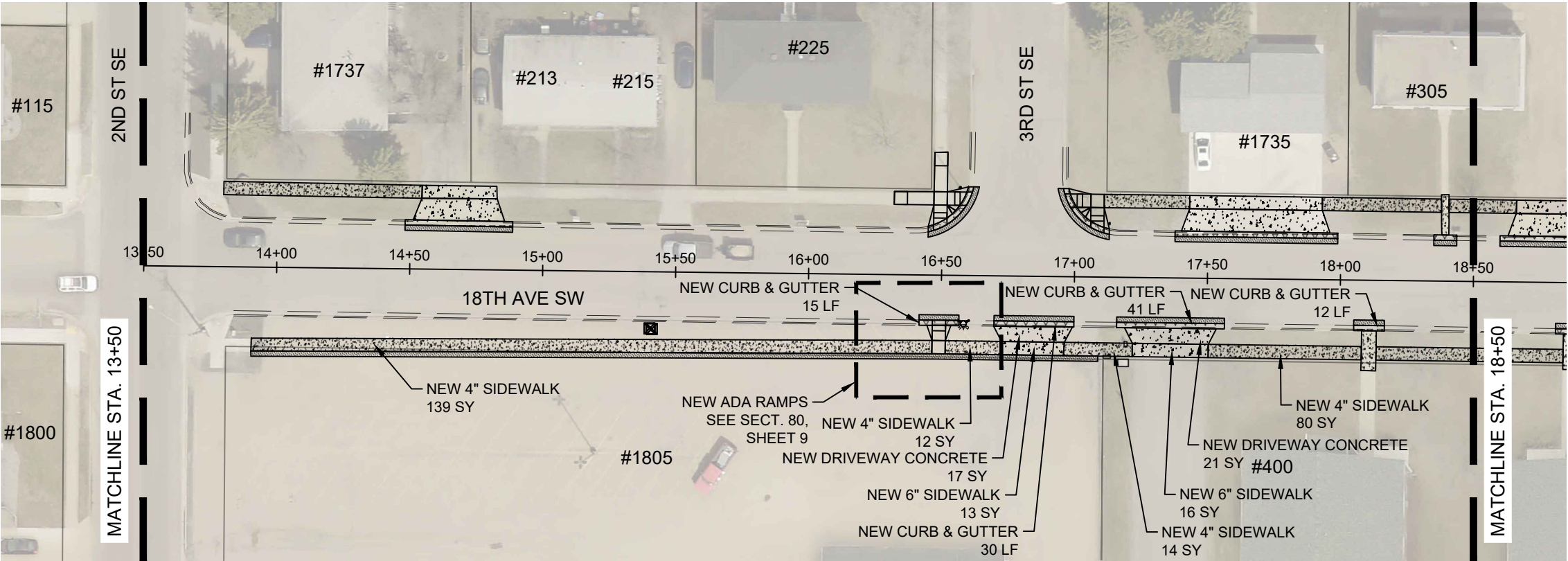


City of Minot



PLAN & PROFILE
18TH AVE SE NORTH SIDE
STA. 18+50 TO STA. 23+50

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	7

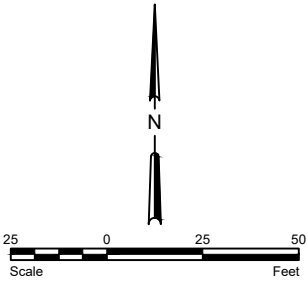
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	21
748	100	CURB & GUTTER	LF	98
750	115	SIDEWALK CONCRETE 4"	SY	245
750	140	SIDEWALK CONCRETE 6"	SY	29
750	1000	DRIVEWAY CONCRETE	SY	38

LEGEND

- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

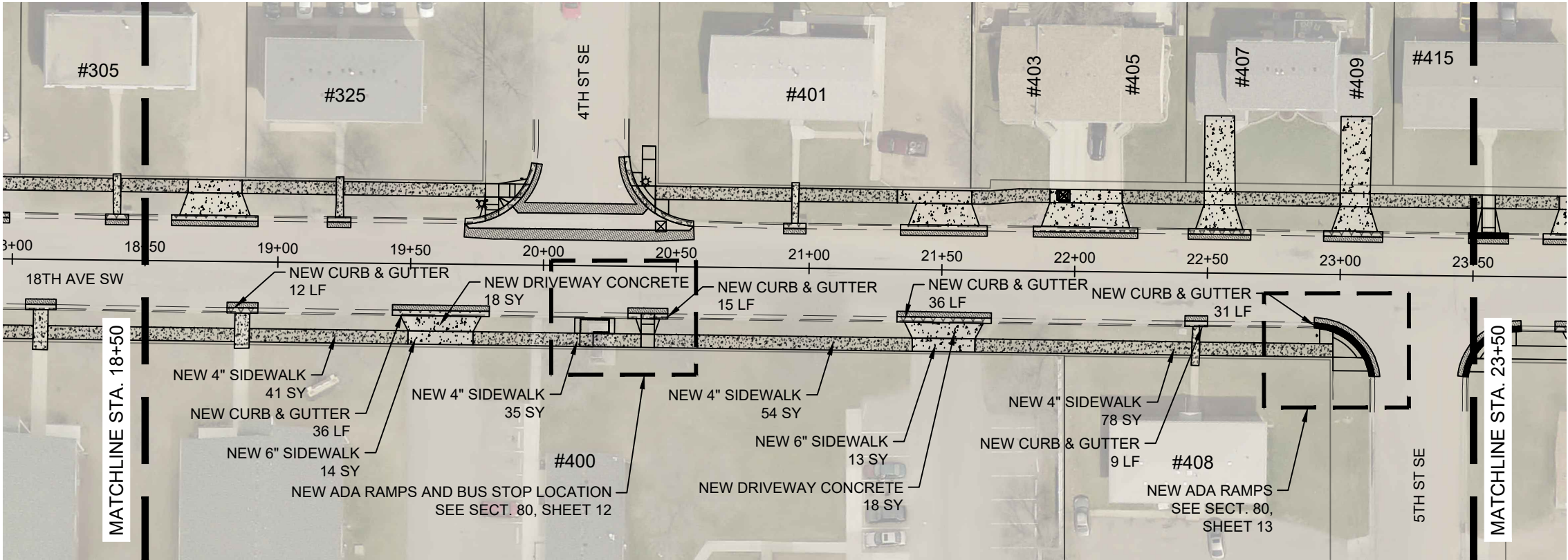


City of Minot



PLAN & PROFILE
18TH AVE SE SOUTH SIDE
STA. 13+50 TO STA. 18+50

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

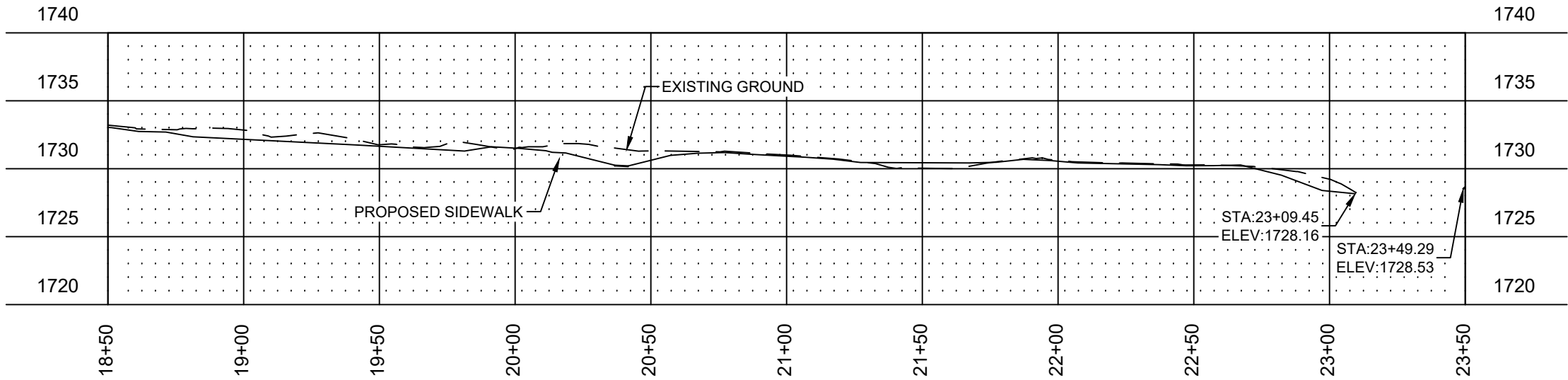


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	8

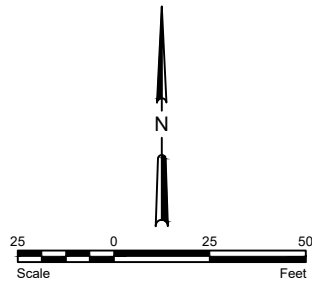
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	7
748	100	CURB & GUTTER	LF	139
750	115	SIDEWALK CONCRETE 4"	SY	208
750	140	SIDEWALK CONCRETE 6"	SY	27
750	1000	DRIVEWAY CONCRETE	SY	36

LEGEND

- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

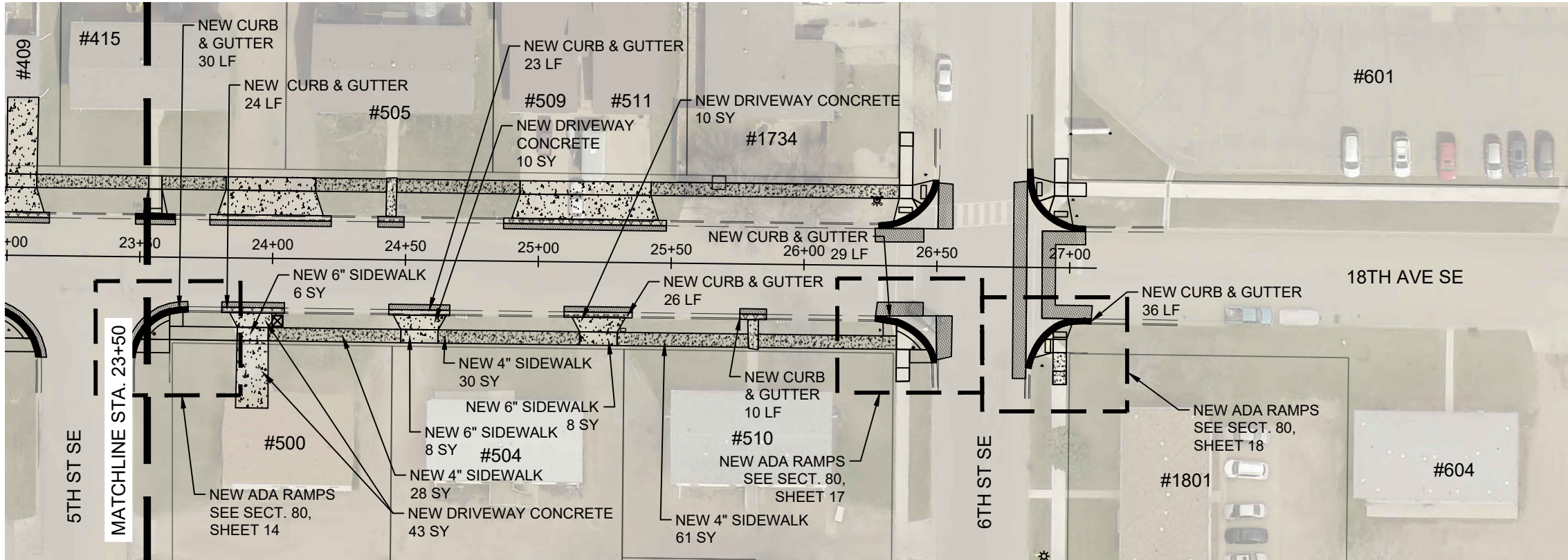


City of Minot



PLAN & PROFILE
18TH AVE SE SOUTH SIDE
STA. 18+50 TO STA. 23+50

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

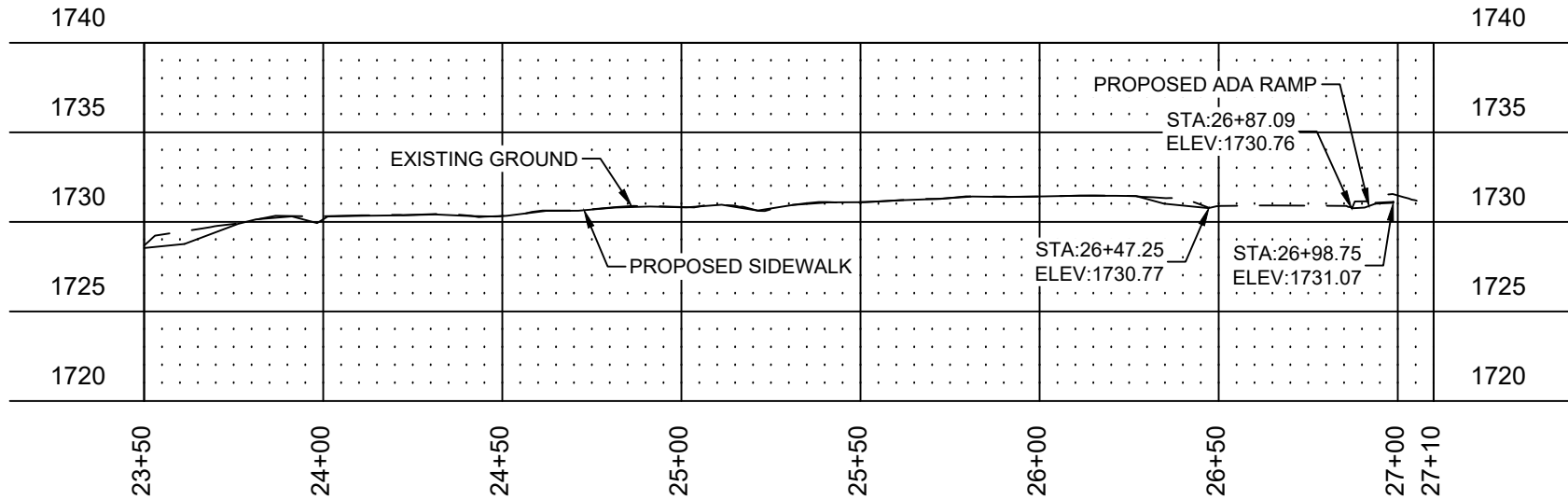


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	60	9

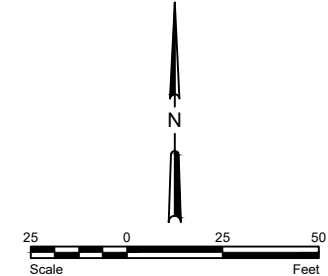
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	10
748	100	CURB & GUTTER	LF	178
750	115	SIDEWALK CONCRETE 4"	SY	119
750	140	SIDEWALK CONCRETE 6"	SY	22
750	1000	DRIVEWAY CONCRETE	SY	63

LEGEND

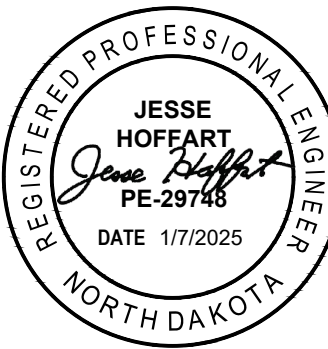
- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'



City of Minot






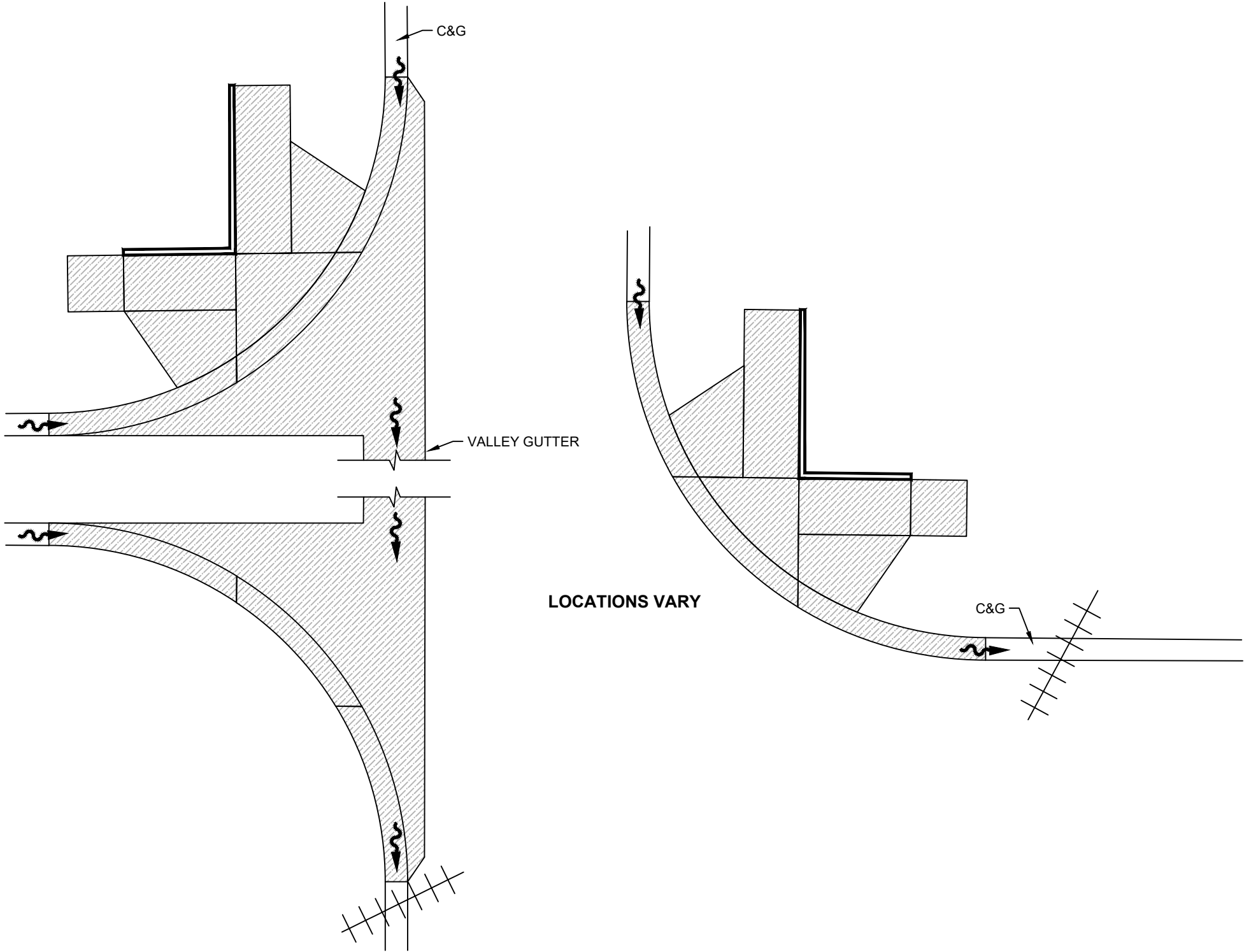
PLAN & PROFILE
18TH AVE SE SOUTH SIDE
STA. 23+50 TO STA. 27+10

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	76	1


SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
261	112	FIBER ROLLS 12IN	LF	200
261	113	REMOVE FIBER ROLLS 12IN	LF	200

LEGEND

-  PROPOSED WORK
-  WATER FLOW DIRECTION
-  FIBER ROLLS



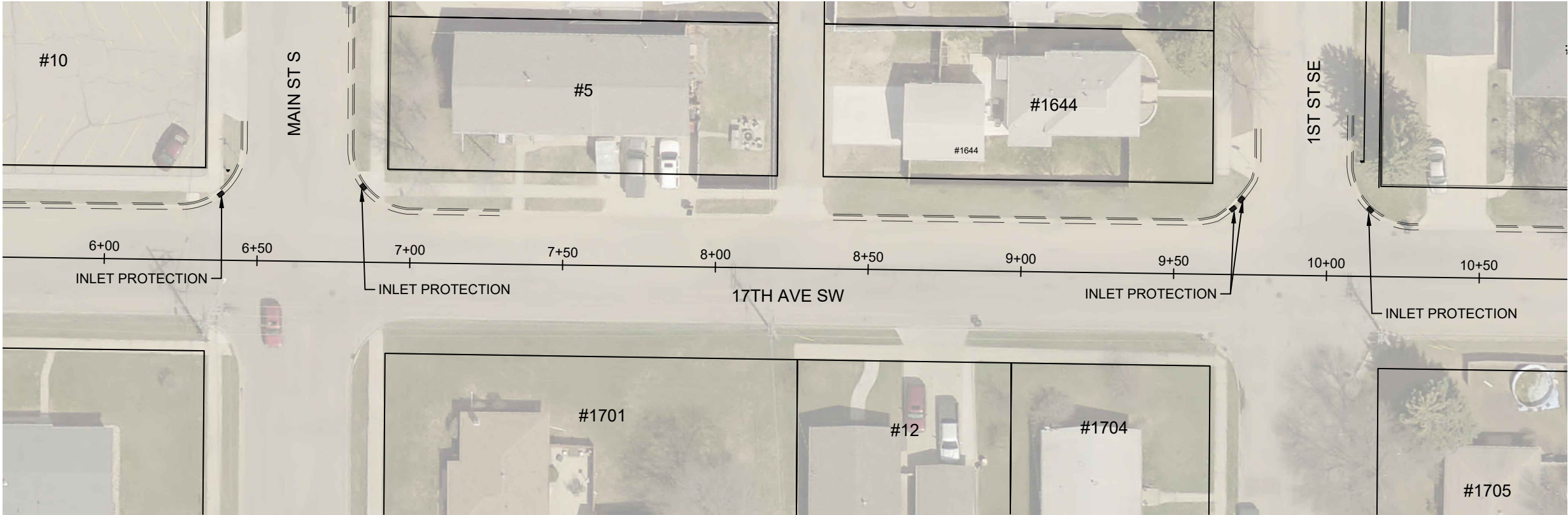
City of Minot



PERMANENT SEDIMENT AND
EROSION CONTROL

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	76	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
708	1540	INLET PROTECTION-SPECIAL	EA	5
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	5



City of Minot

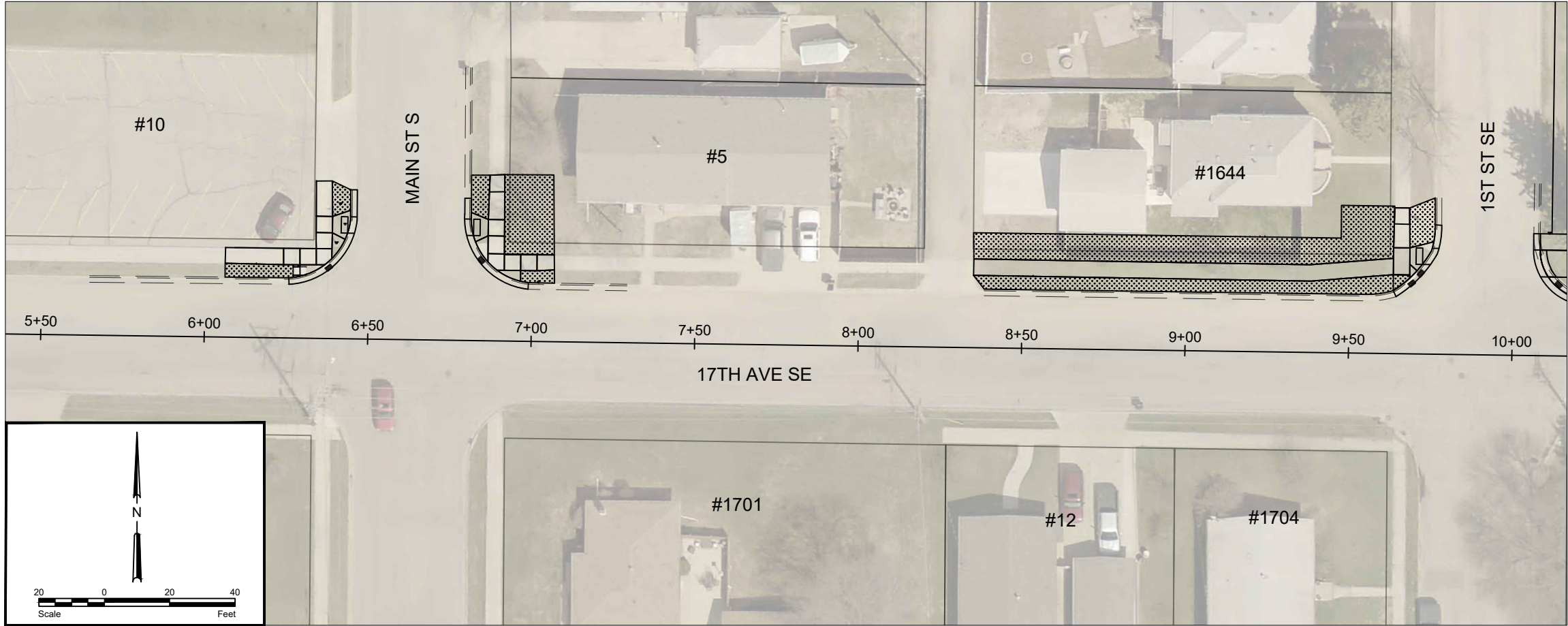
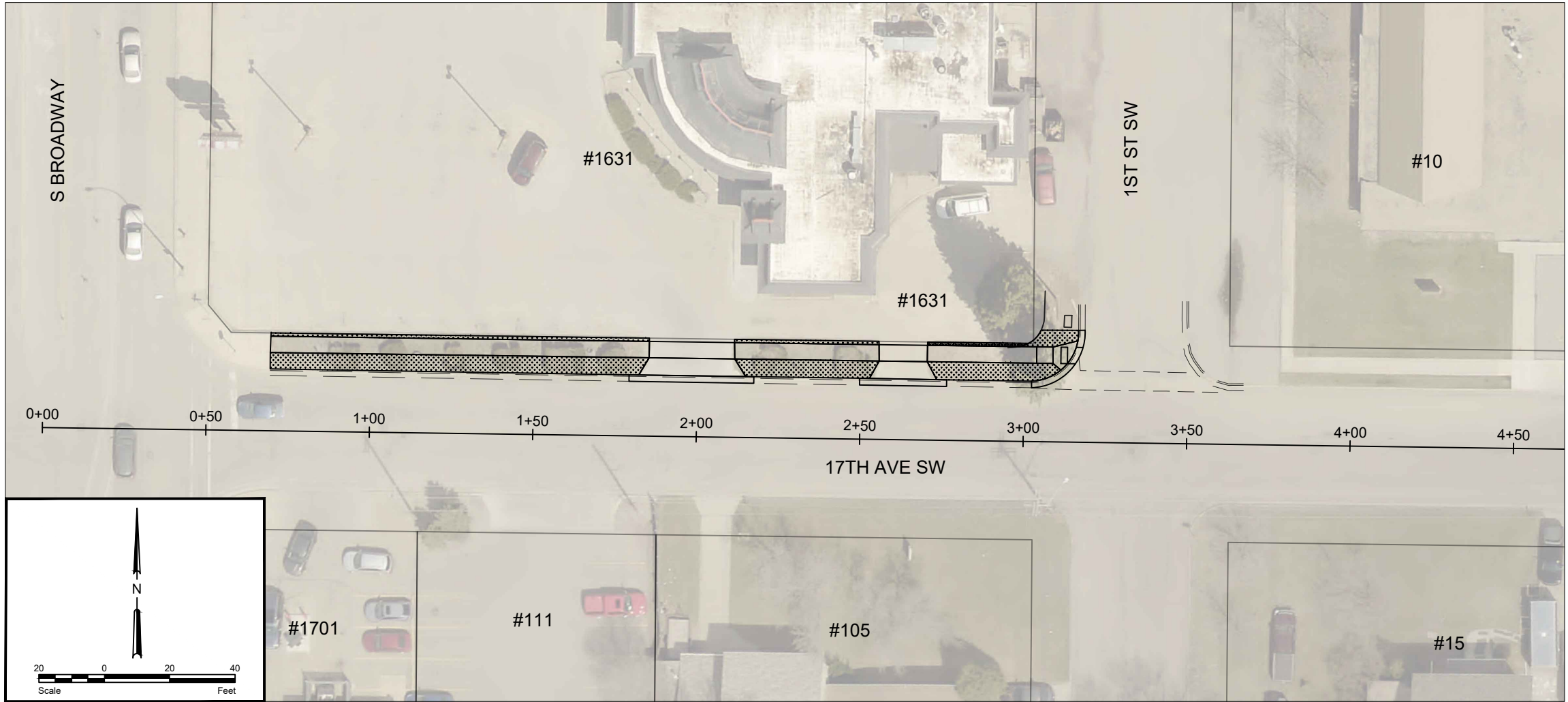
REGISTERED PROFESSIONAL ENGINEER

JESSE
HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

NORTH DAKOTA

PERMANENT SEDIMENT AND
EROSION CONTROL

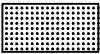

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	77	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	68
251	300	SEEDING CLASS III	ACRE	0.08
253	200	HYDRAULIC MULCH	SY	409

LEGEND

-  SEEDING CLASS 3 AND HYDRAULIC MULCH
-  SALVAGE & REPLACE ROCK

City of Minot



PERMANENT SEDIMENT AND
EROSION CONTROL
STA 0+00 TO STA 10+00

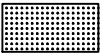

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	77	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	163
251	300	SEEDING CLASS III	ACRE	0.20
253	200	HYDRAULIC MULCH	SY	976

LEGEND

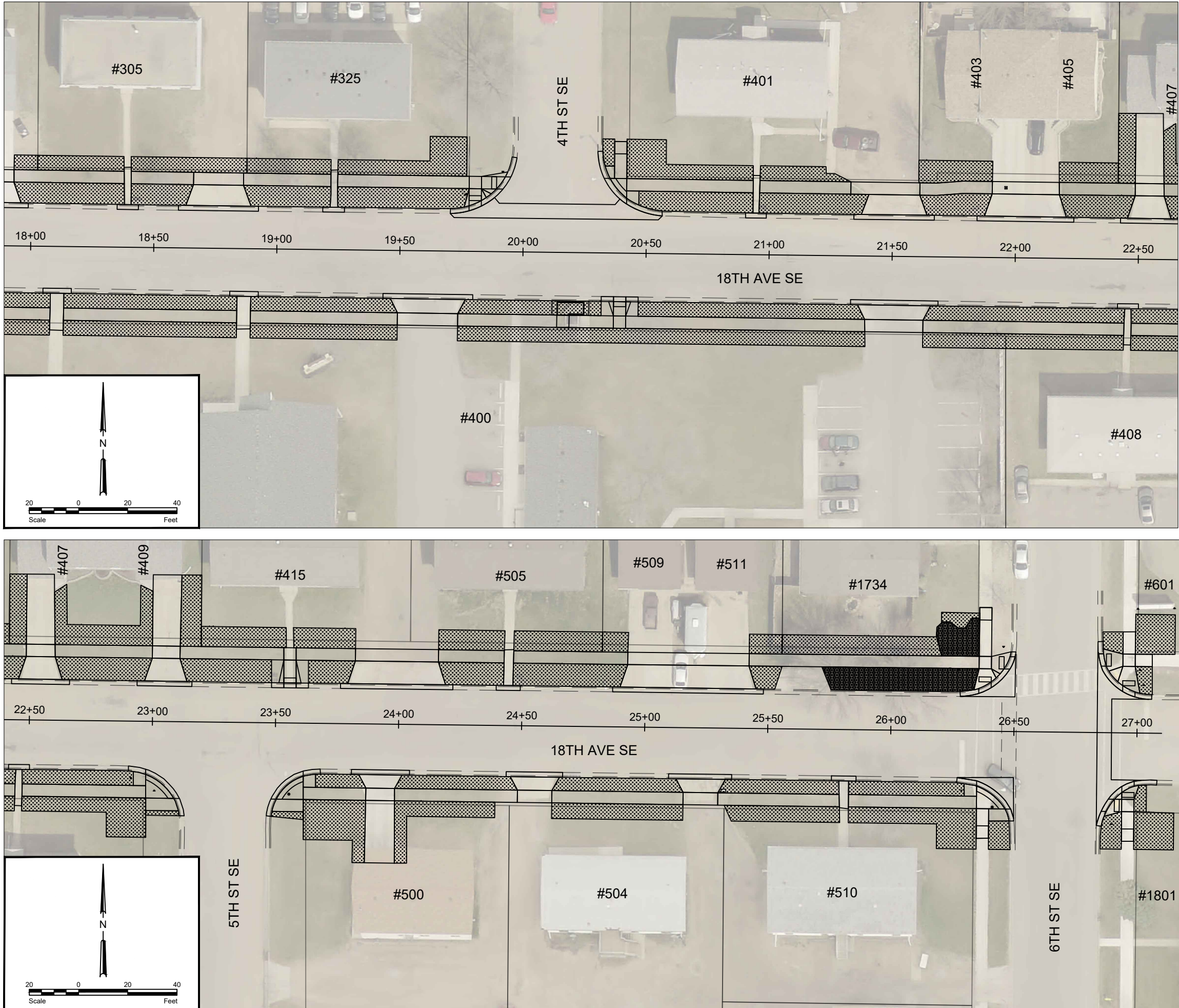
-  SEEDING CLASS 3 AND HYDRAULIC MULCH
-  SALVAGE & REPLACE ROCK

City of Minot



PERMANENT SEDIMENT AND
EROSION CONTROL
STA 10+00 TO STA 18+00

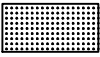

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	77	3

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	337
251	300	SEEDING CLASS III	ACRE	0.42
253	200	HYDRAULIC MULCH	SY	2024

LEGEND

-  SEEDING CLASS 3 AND HYDRAULIC MULCH
-  SALVAGE & REPLACE ROCK

City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

Jesse Hoffart

PE-29748

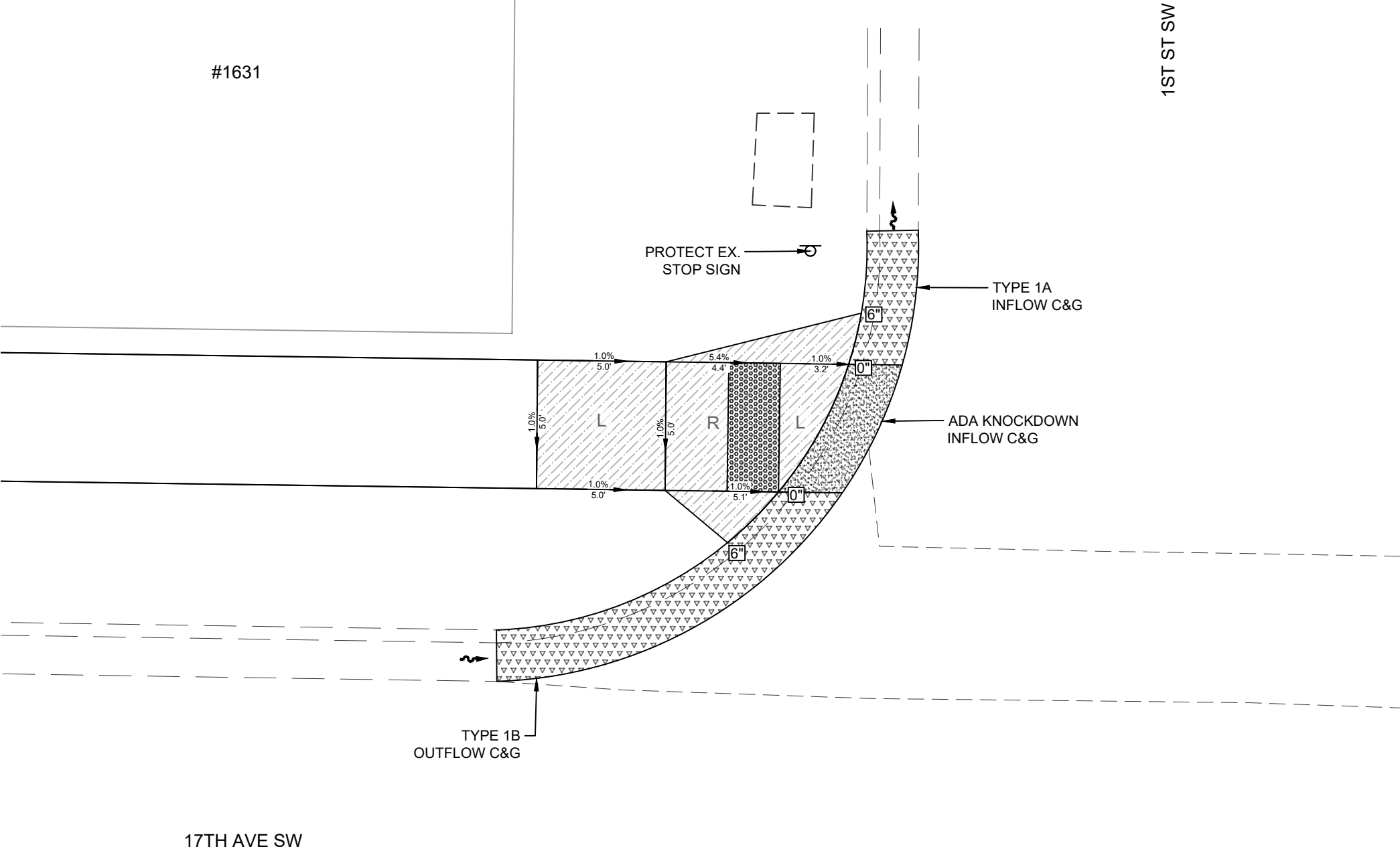
DATE 1/7/2025

NORTH DAKOTA

PERMANENT SEDIMENT AND
EROSION CONTROL
STA 18+00 TO STA 27+10

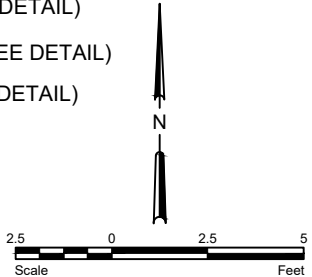
P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	1



LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
-
-
-
-
-
-
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
-
- WATER FLOW DIRECTION
- LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS)
- ADA RAMP WITH MAX SLOPE OF 8.3%
- TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WARPED TRANSITION LANDING (SEE DETAIL)
- WARPED TRANSITION RAMP (SEE DETAIL)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE



City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

Jesse Hoffart

PE-29748

DATE 1/7/2025

NORTH DAKOTA

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10

ABBREVIATIONS

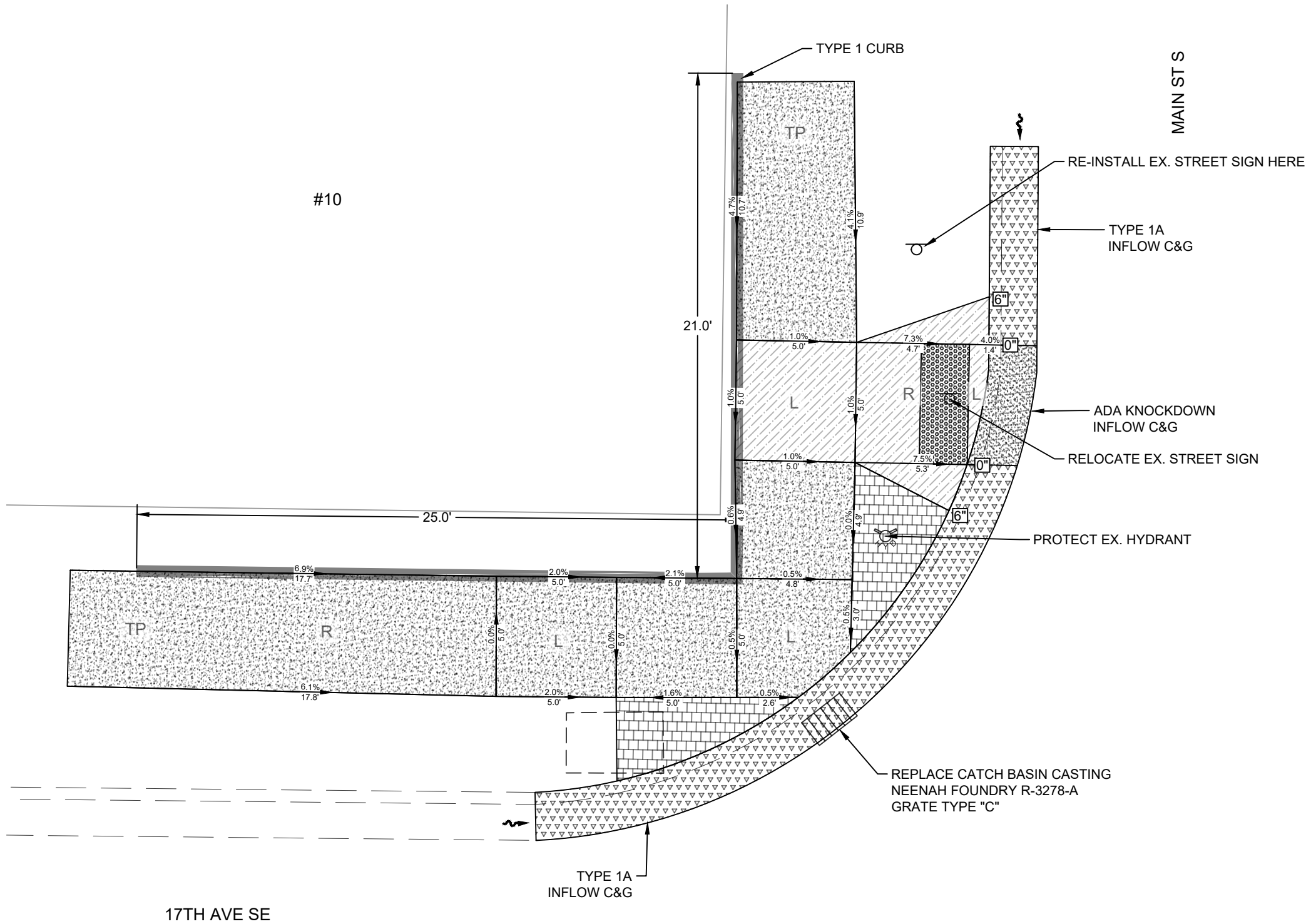
- TOS
- TBC
- EX
- FL
- GT
- TOP OF SIDEWALK
- TOP BACK OF CURB
- EXISTING
- FLOW LINE
- GUTTER TOE

ADA RAMP LAYOUT
17TH AVE SW & 1ST ST SW
NW CORNER

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	2

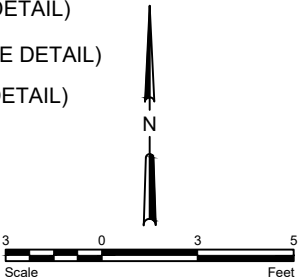


LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB 6"
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
- BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- WATER FLOW DIRECTION
- LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
- ADA RAMP WITH MAX SLOPE OF 8.3%
- TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WARPED TRANSITION LANDING (SEE DETAIL)
- WARPED TRANSITION RAMP (SEE DETAIL)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE

ABBREVIATIONS

- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE



City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

NORTH DAKOTA

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB-TYPE I	LF	45
750	30	PIGMENTED IMPRINTED CONCRETE	SY	4
750	115	SIDEWALK CONCRETE 4 IN	SY	26
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10

ADA RAMP LAYOUT
17TH AVE SE & MAIN ST S
NW CORNER

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	3

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	3
750	115	SIDEWALK CONCRETE 4 IN	SY	21
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10

MAIN ST S

TYPE 1A
INFLOW C&G

ADA KNOCKDOWN
INFLOW C&G

REPLACE CATCH BASIN CASTING
NEENAH FOUNDRY R-3278-A
GRATE TYPE "C"


TYPE 1A
INFLOW C&G


17TH AVE SE


PROTECT EX. STOP SIGN


#5

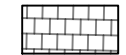
LEGEND


- 


CURB AND GUTTER
- 

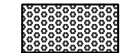
CURB AND GUTTER - ADA KNOCK DOWN
- 


6" CONCRETE VALLEY GUTTER (REINFORCED)
- 


CURB 6"
- 


6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 


4" CONCRETE SIDEWALK (NON-REINFORCED)
- 


6" CONCRETE SIDEWALK (NON-REINFORCED)
- 


DETECTABLE WARNING PANEL
- 


TEMPORARY CONSTRUCTION EASEMENT
- 


BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 


WATER FLOW DIRECTION
- 


LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS)
- 


ADA RAMP WITH MAX SLOPE OF 8.3%
- 

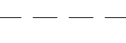
TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- 

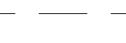
WARPED TRANSITION LANDING (SEE DETAIL)
- 


WARPED TRANSITION RAMP (SEE DETAIL)
- 


MANHOLE
- 


FIRE HYDRANT
- 


GATE VALVE
- 

PROPERTY LINE
- 

EXISTING VALLEY GUTTER
- 

EXISTING CURB & GUTTER
- 

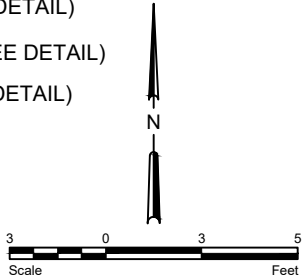
CATCH BASIN
- 

UTILITY/SIGN
- 

LIGHT POLE

ABBREVIATIONS

- TOS
- TBC
- EX
- FL
- GT
- TOP OF SIDEWALK
- TOP BACK OF CURB
- EXISTING
- FLOW LINE
- GUTTER TOE



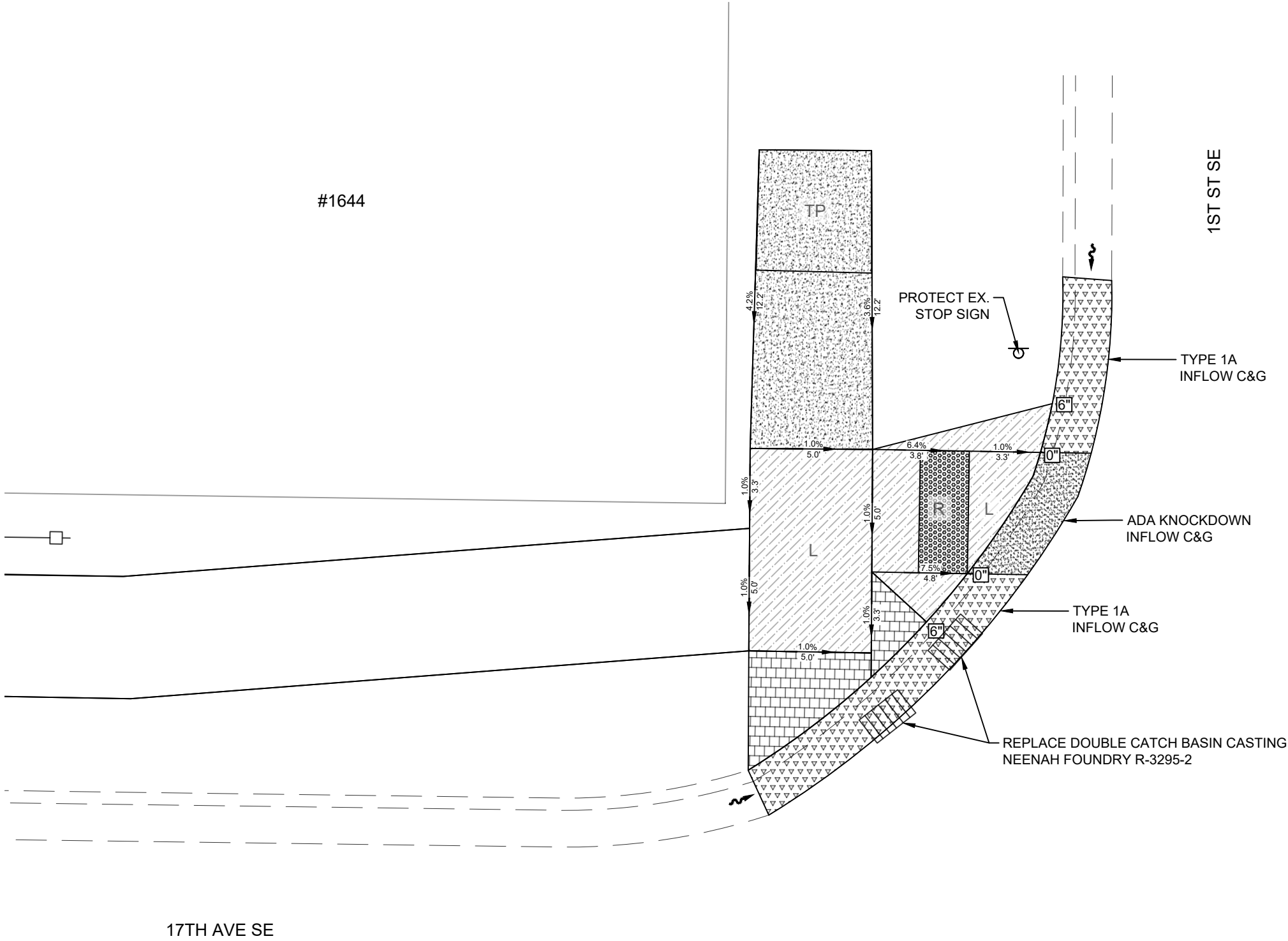
City of Minot



ADA RAMP LAYOUT
17TH AVE SE & MAIN ST S
NE CORNER

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	4



LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB 6"
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
- BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- WATER FLOW DIRECTION
- L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
- R ADA RAMP WITH MAX SLOPE OF 8.3%
- TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WTL WARPED TRANSITION LANDING (SEE DETAIL)
- WTR WARPED TRANSITION RAMP (SEE DETAIL)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE

ABBREVIATIONS

- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	2
750	115	SIDEWALK CONCRETE 4 IN	SY	21
750	140	SIDEWALK CONCRETE 6 IN	SY	9
750	2115	DETECTABLE WARNING PANELS	SF	10

City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

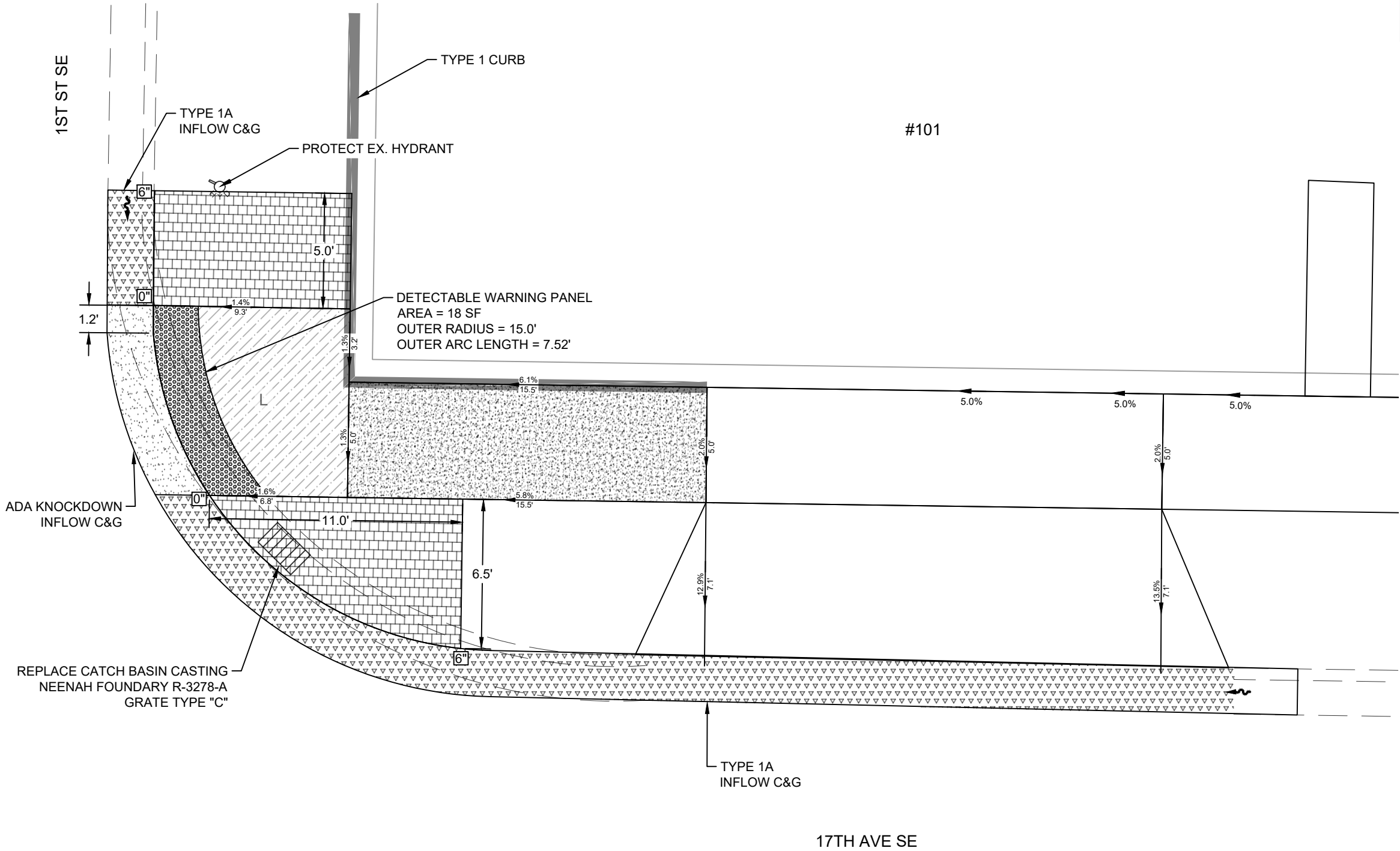
NORTH DAKOTA

ADA RAMP LAYOUT
17TH AVE SE & 1ST ST SE
NW CORNER

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	5

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	10
750	115	SIDEWALK CONCRETE 4 IN	SY	9
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	18



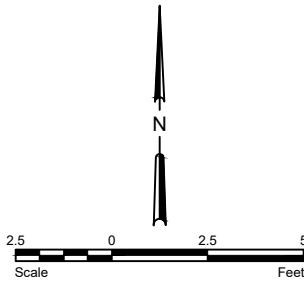
LEGEND

	CURB AND GUTTER		DETECTABLE WARNING PANEL
	CURB AND GUTTER - ADA KNOCK DOWN		TEMPORARY CONSTRUCTION EASEMENT
	6" CONCRETE VALLEY GUTTER (REINFORCED)		BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	CURB 6"		WATER FLOW DIRECTION
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)		LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
	4" CONCRETE SIDEWALK (NON-REINFORCED)		ADA RAMP WITH MAX SLOPE OF 8.3%
	6" CONCRETE SIDEWALK (NON-REINFORCED)		TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
			WTR WARPED TRANSITION RAMP (SEE DETAIL)
			WTL WARPED TRANSITION LANDING (SEE DETAIL)

	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE

ABBREVIATIONS

TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE



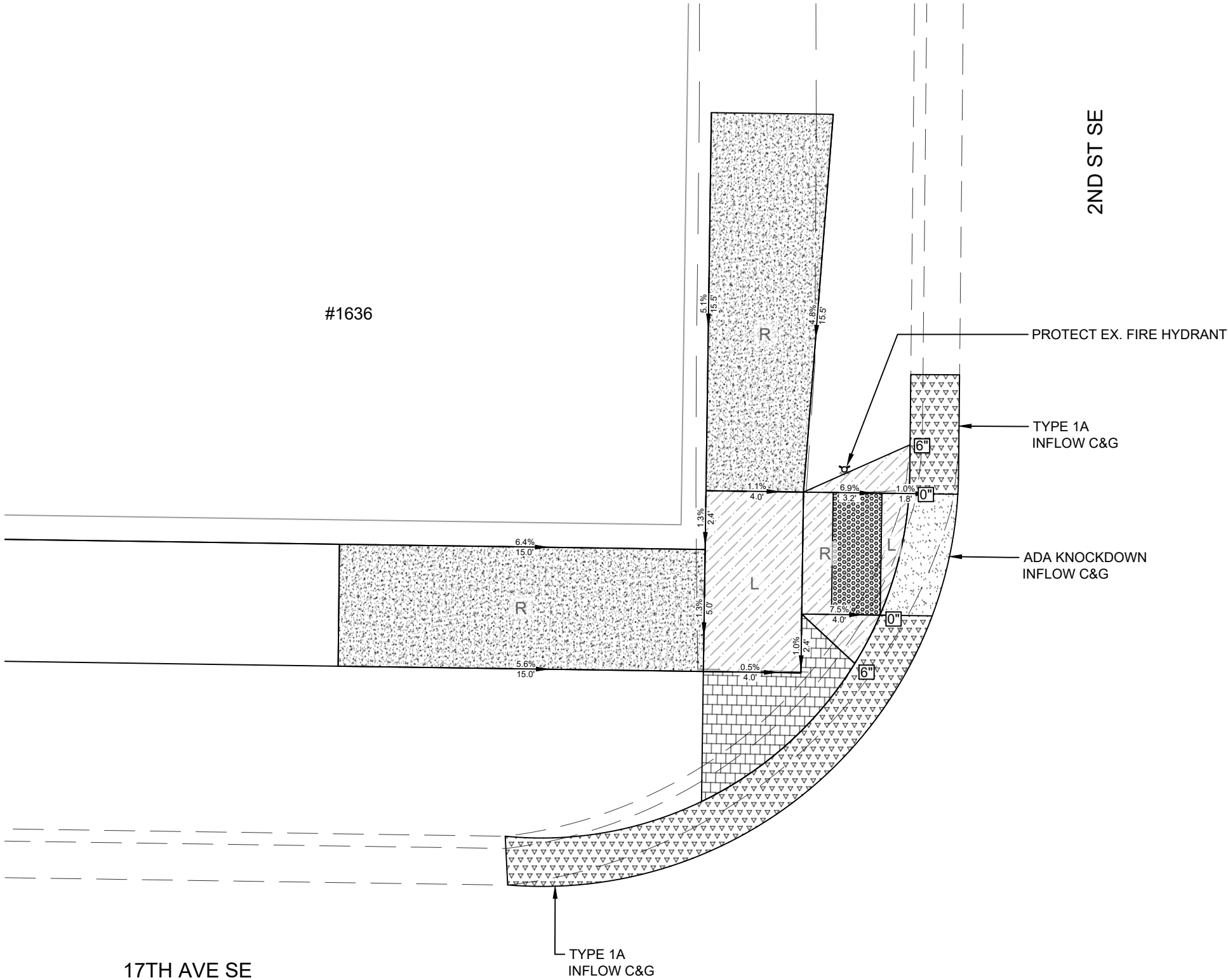
City of Minot



ADA RAMP LAYOUT
17TH AVE SE & 1ST ST SE
NE CORNER

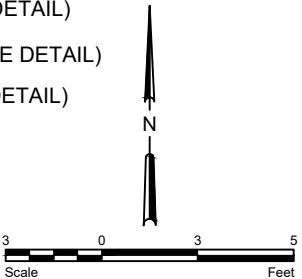
P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	6



LEGEND

-
- CURB AND GUTTER
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB 6"
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- TEMPORARY CONSTRUCTION EASEMENT
-
- BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
-
- WATER FLOW DIRECTION
-
- LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS)
-
- ADA RAMP WITH MAX SLOPE OF 8.3%
-
- TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
-
- WARPED TRANSITION LANDING (SEE DETAIL)
-
- WARPED TRANSITION RAMP (SEE DETAIL)
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE
-
- PROPERTY LINE
-
- EXISTING VALLEY GUTTER
-
- EXISTING CURB & GUTTER
-
- CATCH BASIN
-
- UTILITY/SIGN
-
- LIGHT POLE



City of Minot

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	2
750	115	SIDEWALK CONCRETE 4 IN	SY	16
750	140	SIDEWALK CONCRETE 6 IN	SY	6
750	2115	DETECTABLE WARNING PANELS	SF	10

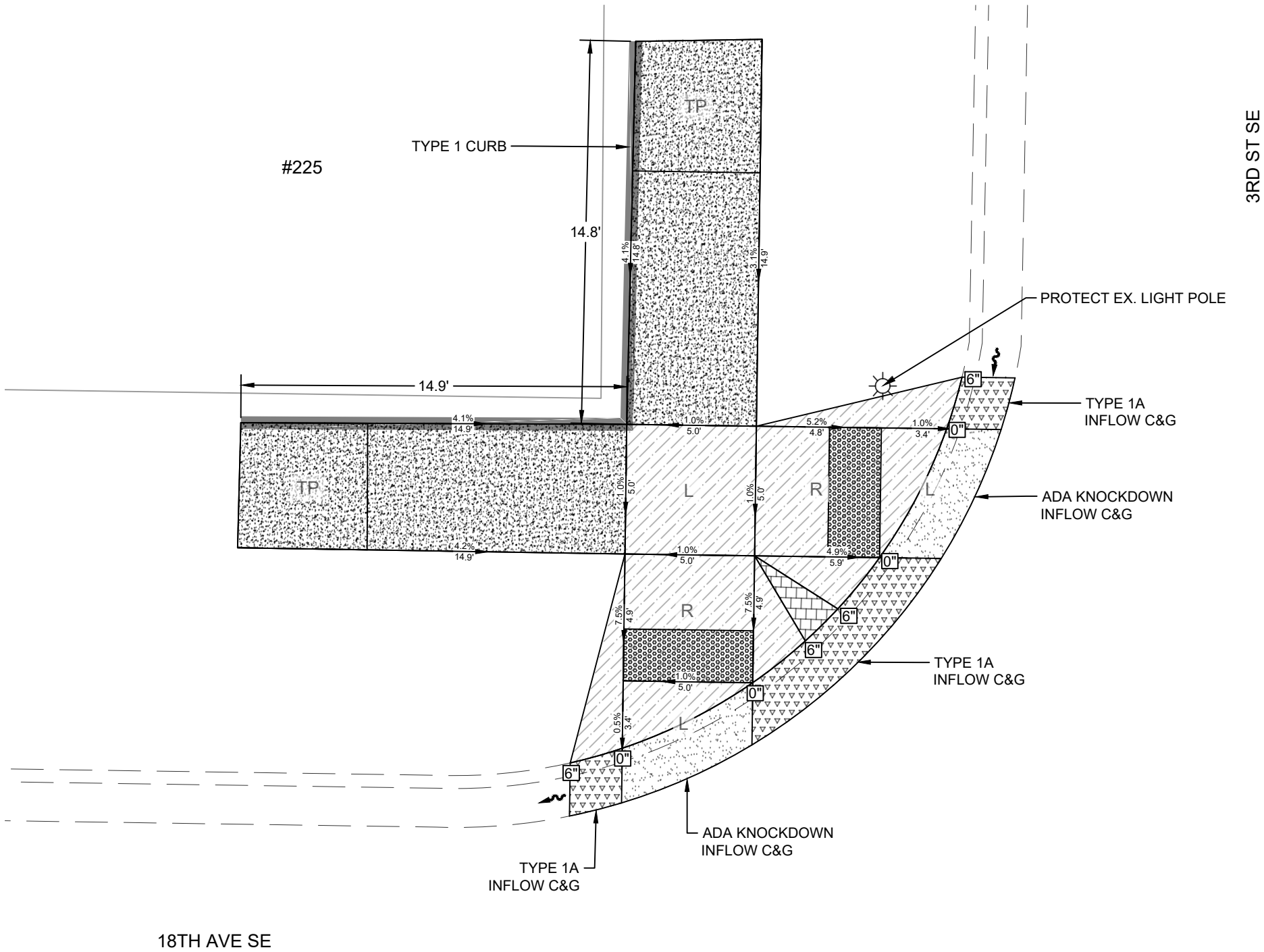
ABBREVIATIONS

- TOS
- TOP OF SIDEWALK
- TBC
- TOP BACK OF CURB
- EX
- EXISTING
- FL
- FLOW LINE
- GT
- GUTTER TOE

ADA RAMP LAYOUT
17TH AVE SE & 2ND ST SE
NW CORNER

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	7

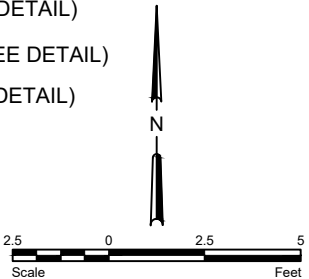


LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB 6"
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- WATER FLOW DIRECTION
- L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
- R ADA RAMP WITH MAX SLOPE OF 8.3%
- TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WTL WARPED TRANSITION LANDING (SEE DETAIL)
- WTR WARPED TRANSITION RAMP (SEE DETAIL)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE

ABBREVIATIONS

- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE



City of Minot



ADA RAMP LAYOUT
18TH AVE SE & 3RD ST SE
NW CORNER

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB-TYPE I	LF	28
750	30	PIGMENTED IMPRINTED CONCRETE	SY	0.4
750	115	SIDEWALK CONCRETE 4 IN	SY	16
750	140	SIDEWALK CONCRETE 6 IN	SY	13
750	2115	DETECTABLE WARNING PANELS	SF	20

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	8

3RD ST SE

#1735

TYPE 1A
INFLOW C&G

ADA KNOCKDOWN
INFLOW C&G

TYPE 1A
INFLOW C&G

ADA KNOCKDOWN
INFLOW C&G


TYPE 1A
INFLOW C&G


MOVE EX. STREET SIGN


NEW STREET SIGN LOCATION


18TH AVE SE


LEGEND

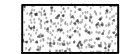
- 


CURB AND GUTTER
- 

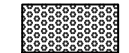
CURB AND GUTTER - ADA KNOCK DOWN
- 


6" CONCRETE VALLEY GUTTER (REINFORCED)
- 


CURB 6"
- 


6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 


4" CONCRETE SIDEWALK (NON-REINFORCED)
- 


6" CONCRETE SIDEWALK (NON-REINFORCED)
- 


DETECTABLE WARNING PANEL
- 


TEMPORARY CONSTRUCTION EASEMENT
- 


BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 


WATER FLOW DIRECTION
- 


LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS)
- 


ADA RAMP WITH MAX SLOPE OF 8.3%
- 

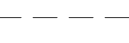
TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- 

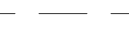
WARPED TRANSITION LANDING (SEE DETAIL)
- 


WARPED TRANSITION RAMP (SEE DETAIL)
- 


MANHOLE
- 


FIRE HYDRANT
- 


GATE VALVE
- 

PROPERTY LINE
- 

EXISTING VALLEY GUTTER
- 

EXISTING CURB & GUTTER
- 

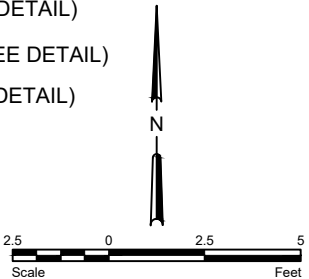
CATCH BASIN
- 

UTILITY/SIGN
- 

LIGHT POLE

ABBREVIATIONS

- TOS
- TBC
- EX
- FL
- GT
- TOP OF SIDEWALK
- TOP BACK OF CURB
- EXISTING
- FLOW LINE
- GUTTER TOE



City of Minot

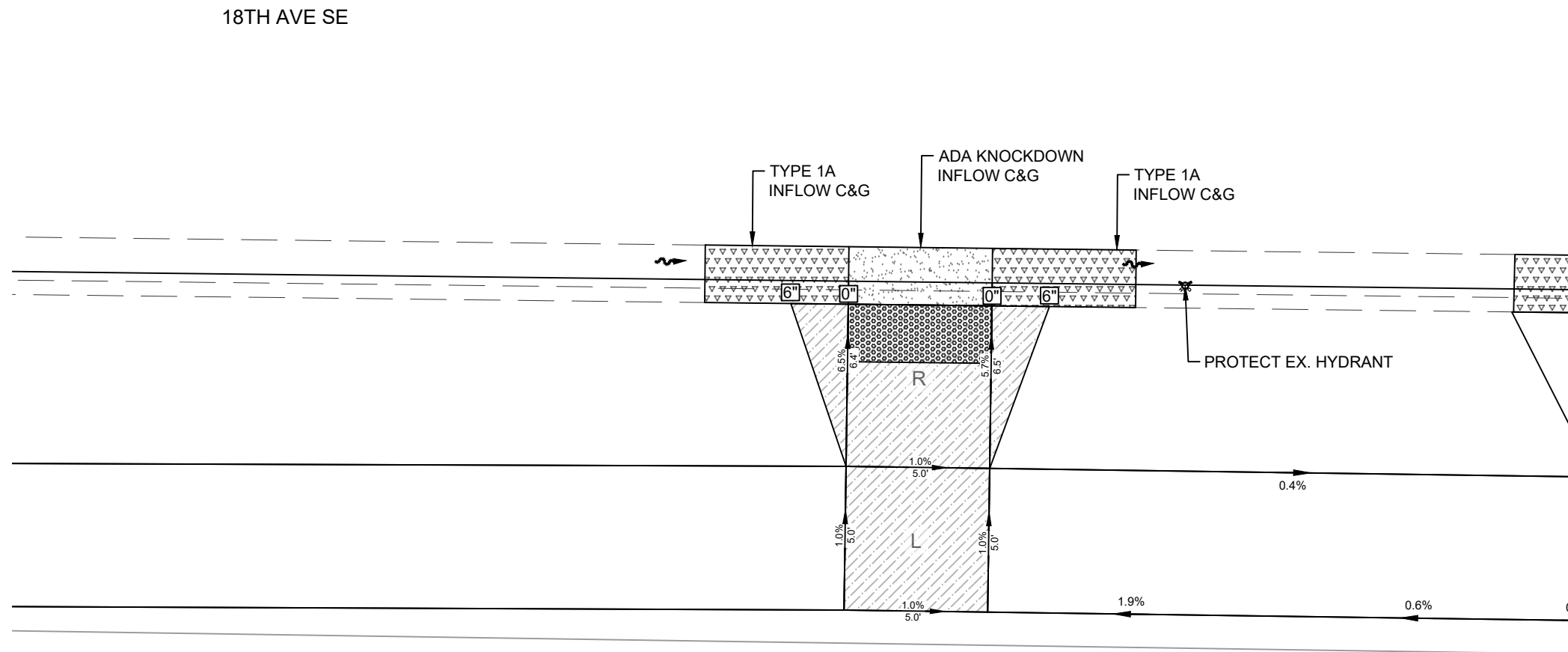






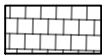


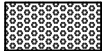

















ADA RAMP LAYOUT
18TH AVE SE & 3RD ST SE
NE CORNER

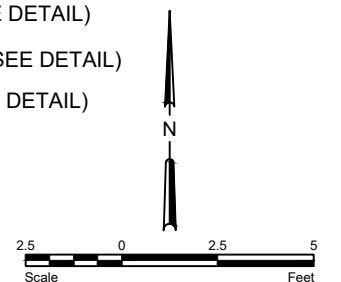
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	0.5
750	140	SIDEWALK CONCRETE 6 IN	SY	13
750	2115	DETECTABLE WARNING PANELS	SF	20

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	9

LEGEND



- | | |
|---|--|
|  | CURB AND GUTTER |
|  | CURB AND GUTTER - ADA KNOCK DOWN |
|  | 6" CONCRETE VALLEY GUTTER (REINFORCED) |
|  | CURB 6" |
|  | 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED) |
|  | 4" CONCRETE SIDEWALK (NON-REINFORCED) |
|  | 6" CONCRETE SIDEWALK (NON-REINFORCED) |
|  | DETECTABLE WARNING PANEL |
|  | TEMPORARY CONSTRUCTION EASEMENT |
|  | BACK OF CURB HEIGHT RELATIVE TO FLOW LINE |
|  | WATER FLOW DIRECTION |
|  | LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS) |
|  | ADA RAMP WITH MAX SLOPE OF 8.3% |
|  | TRANSITIONAL TIE-IN PANEL (SEE DETAIL) |
|  | WARPED TRANSITION LANDING (SEE DETAIL) |
|  | WARPED TRANSITION RAMP (SEE DETAIL) |
|  | MANHOLE |
|  | FIRE HYDRANT |
|  | GATE VALVE |
|  | PROPERTY LINE |
|  | EXISTING VALLEY GUTTER |
|  | EXISTING CURB & GUTTER |
|  | CATCH BASIN |
|  | UTILITY/SIGN |
|  | LIGHT POLE |
- Scale: 0, 2.5, 5 Feet
-



City of Minot



ADA RAMP LAYOUT

18TH AVE SE

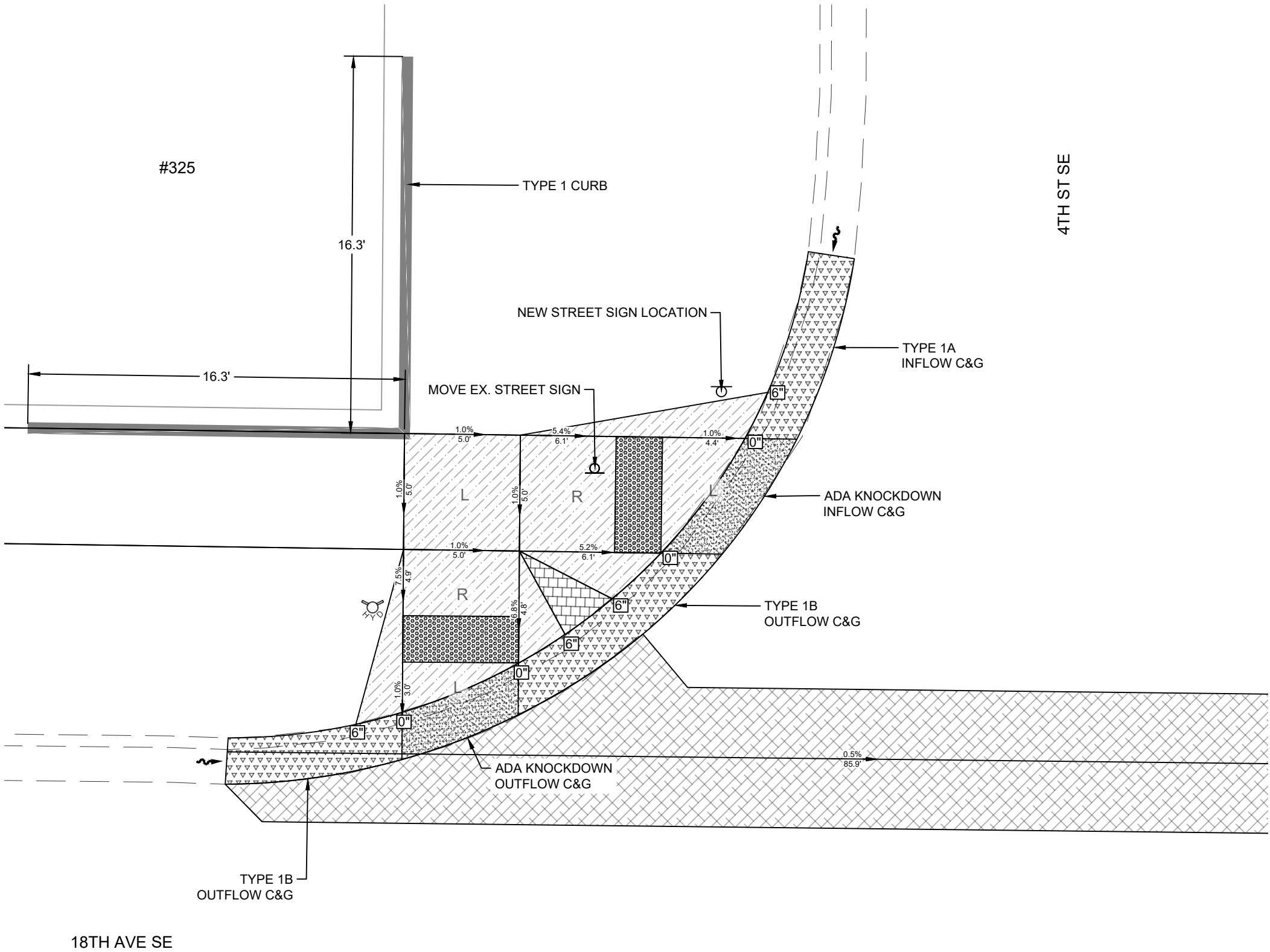
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10

5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

5/23/2023

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	10

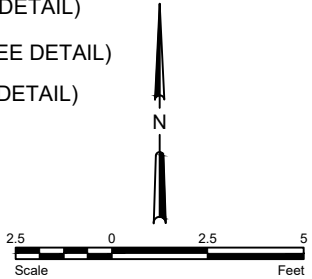


LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB 6"
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
- BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- WATER FLOW DIRECTION
- L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
- R ADA RAMP WITH MAX SLOPE OF 8.3%
- TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WTL WARPED TRANSITION LANDING (SEE DETAIL)
- WTR WARPED TRANSITION RAMP (SEE DETAIL)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE

ABBREVIATIONS

- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE



City of Minot

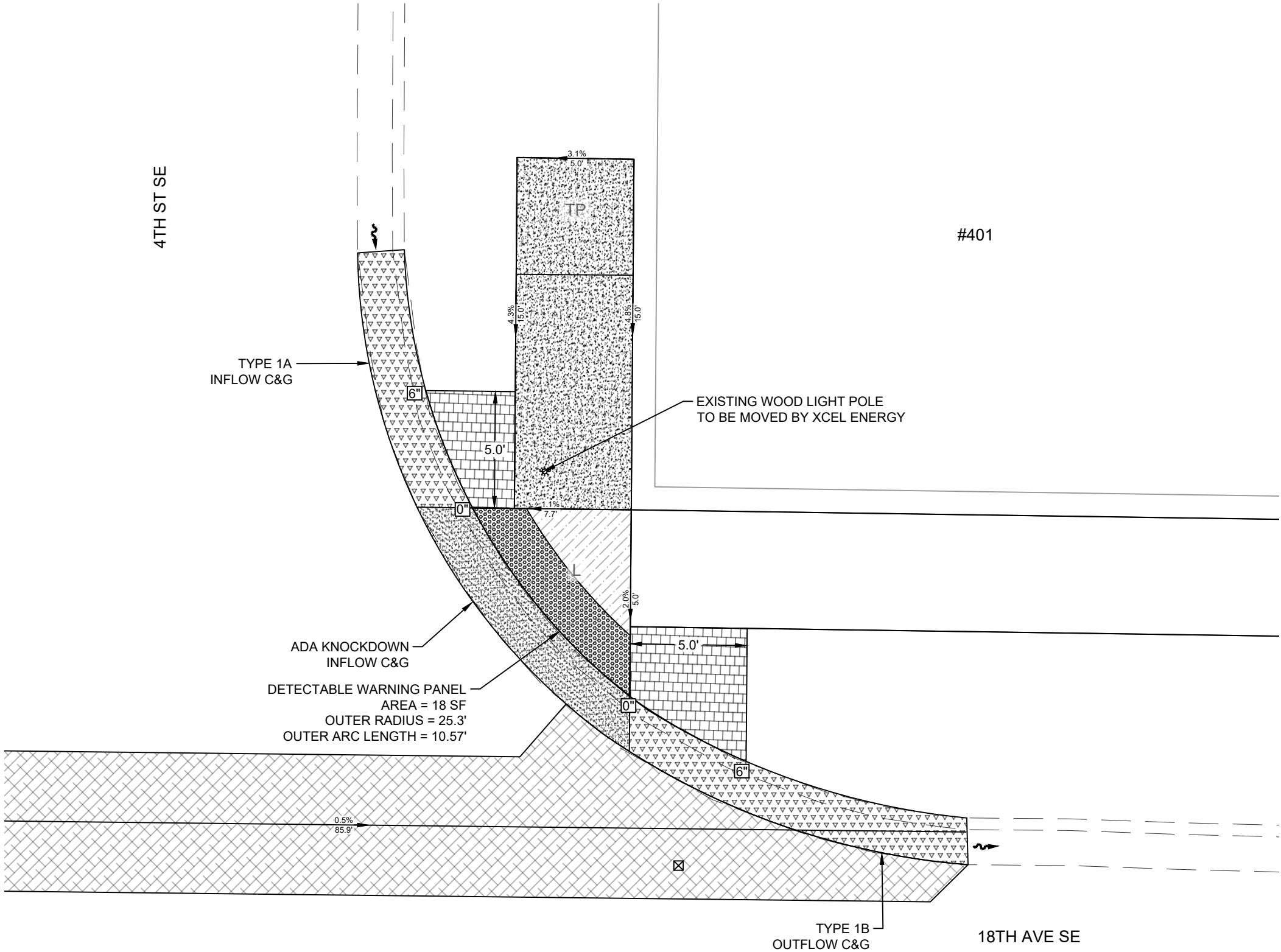


ADA RAMP LAYOUT
18TH AVE SE & 4TH ST SE
NW CORNER

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB-TYPE I	LF	30
748	1030	VALLEY GUTTER 72IN	SY	49
750	30	PIGMENTED IMPRINTED CONCRETE	SY	0.6
750	140	SIDEWALK CONCRETE 6 IN	SY	14
750	2115	DETECTABLE WARNING PANELS	SF	20

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	11

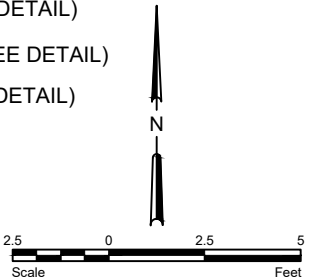


LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB 6"
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- WATER FLOW DIRECTION
- L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
- R ADA RAMP WITH MAX SLOPE OF 8.3%
- TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WTL WARPED TRANSITION LANDING (SEE DETAIL)
- WTR WARPED TRANSITION RAMP (SEE DETAIL)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE

ABBREVIATIONS

- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE



City of Minot

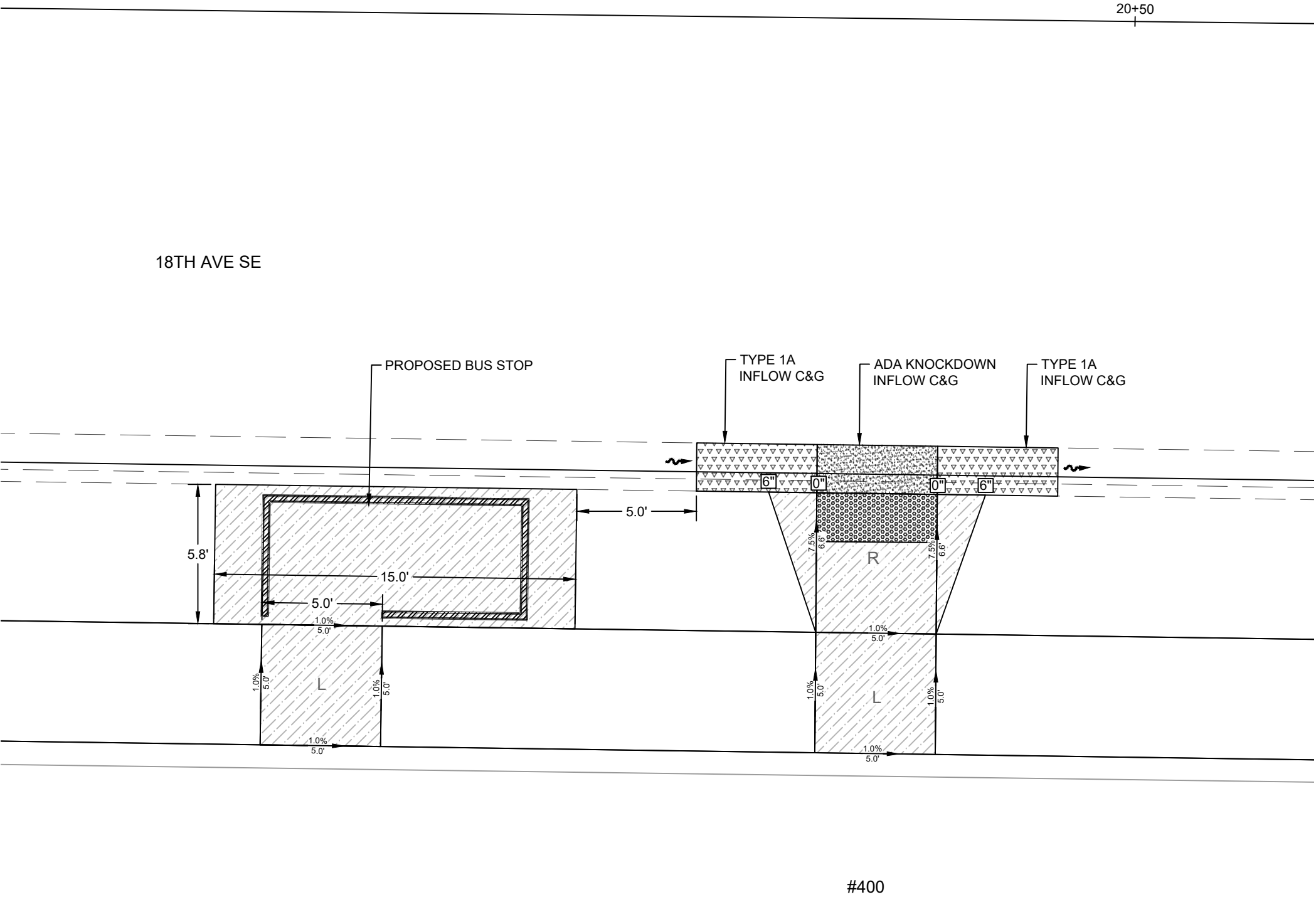


ADA RAMP LAYOUT
18TH AVE SE & 4TH ST SE
NE CORNER

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	4
750	115	SIDEWALK CONCRETE 4 IN	SY	8
750	140	SIDEWALK CONCRETE 6 IN	SY	3
750	2115	DETECTABLE WARNING PANELS	SF	18

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	12



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	140	SIDEWALK CONCRETE 6 IN	SY	17
750	2115	DETECTABLE WARNING PANELS	SF	10
970	365	SHELTER	EA	1

LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB 6"
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- WATER FLOW DIRECTION
- L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
- R ADA RAMP WITH MAX SLOPE OF 8.3%
- TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WTL WARPED TRANSITION LANDING (SEE DETAIL)
- WTR WARPED TRANSITION RAMP (SEE DETAIL)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE

ABBREVIATIONS

- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE

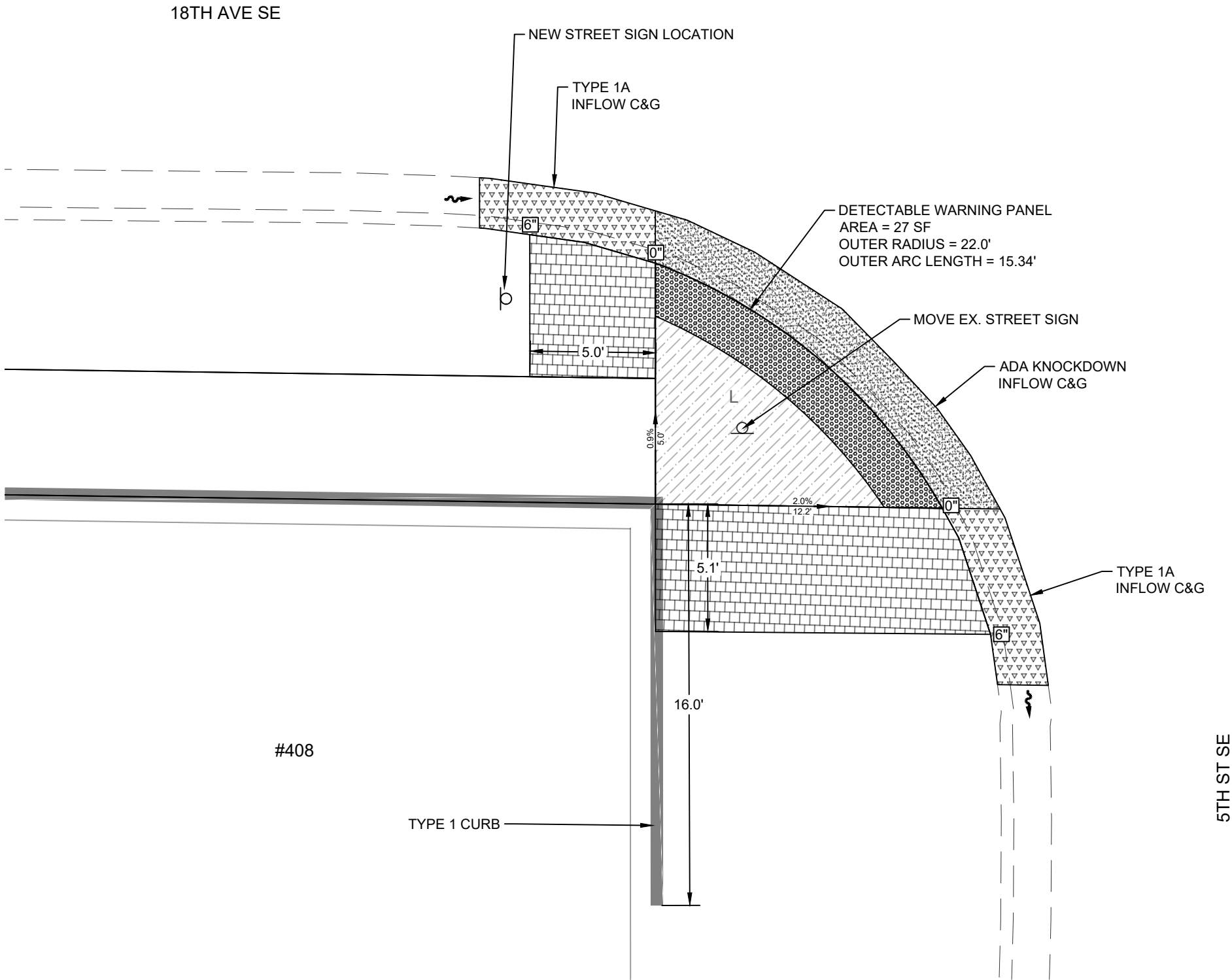
City of Minot



ADA RAMP LAYOUT
18TH AVE SE

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	13



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB - TYPE 1	LF	65
750	30	PIGMENTED IMPRINTED CONCRETE	SY	10
750	140	SIDEWALK CONCRETE 6 IN	SY	8
750	2115	DETECTABLE WARNING PANELS	SF	27

LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB 6"
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- WATER FLOW DIRECTION
- L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
- R ADA RAMP WITH MAX SLOPE OF 8.3%
- TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WTL WARPED TRANSITION LANDING (SEE DETAIL)
- WTR WARPED TRANSITION RAMP (SEE DETAIL)
- S ST MANHOLE
- Fire Hydrant
- Gate Valve
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE

ABBREVIATIONS

- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE

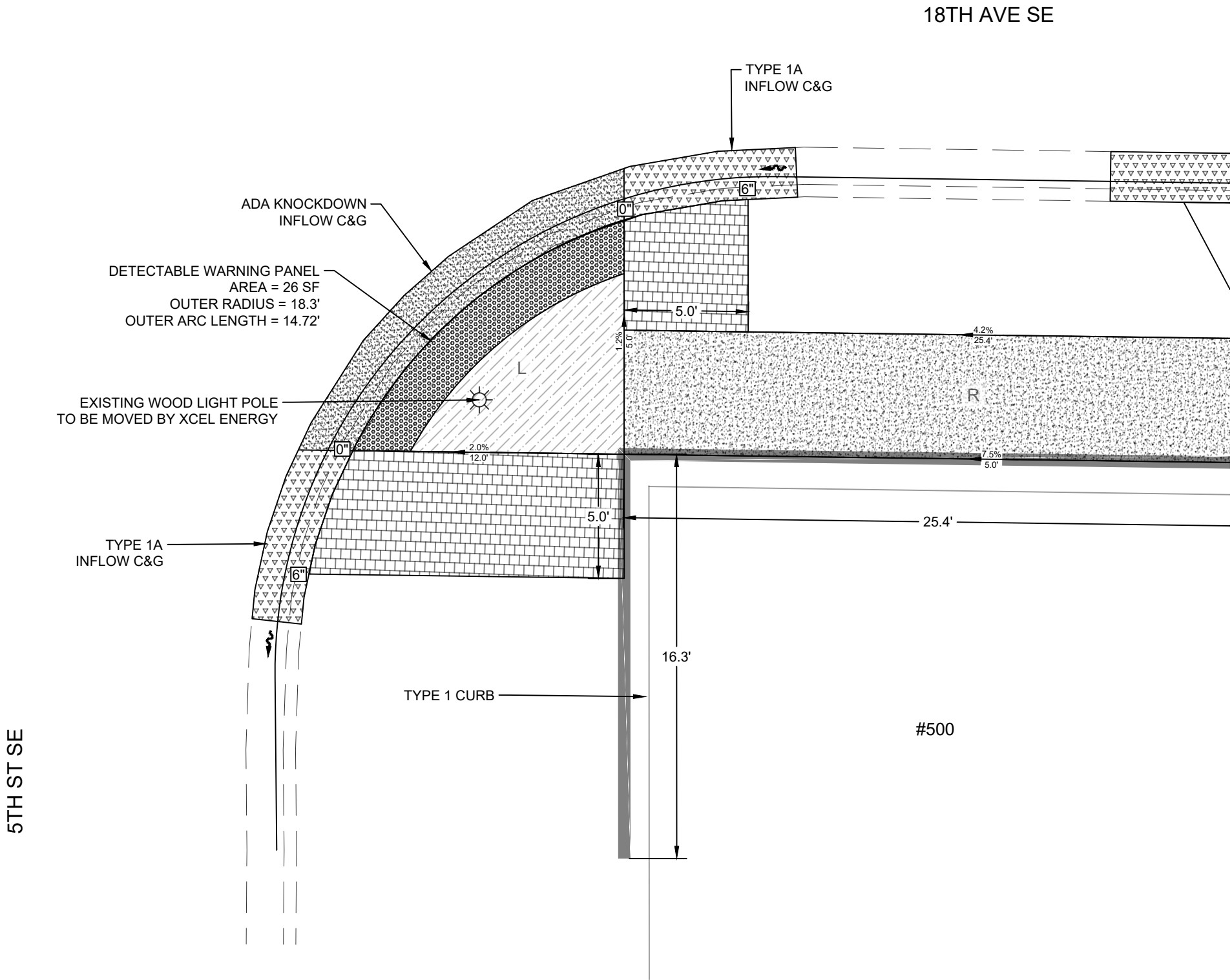
City of Minot



ADA RAMP LAYOUT
18TH AVE SE & 5TH ST SE
SW CORNER

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	14



LEGEND

CURB AND GUTTER

CURB AND GUTTER - ADA KNOCK DOWN

6" CONCRETE VALLEY GUTTER (REINFORCED)

CURB 6"

6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)

4" CONCRETE SIDEWALK (NON-REINFORCED)

6" CONCRETE SIDEWALK (NON-REINFORCED)

DETECTABLE WARNING PANEL

TEMPORARY CONSTRUCTION EASEMENT

BACK OF CURB HEIGHT RELATIVE TO FLOW LINE

WATER FLOW DIRECTION

LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS)

ADA RAMP WITH MAX SLOPE OF 8.3%

TRANSITIONAL TIE-IN PANEL (SEE DETAIL)

WARPED TRANSITION LANDING (SEE DETAIL)

WARPED TRANSITION RAMP (SEE DETAIL)

MANHOLE

FIRE HYDRANT

GATE VALVE

PROPERTY LINE

EXISTING VALLEY GUTTER

EXISTING CURB & GUTTER

CATCH BASIN

UTILITY/SIGN

LIGHT POLE

ABBREVIATIONS

TOS

TOP OF SIDEWALK

TBC

TOP BACK OF CURB

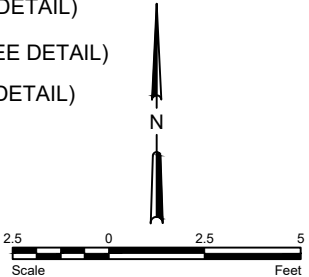
EX

EXISTING

FL

FLOW LINE

GT

GUTTER TOE

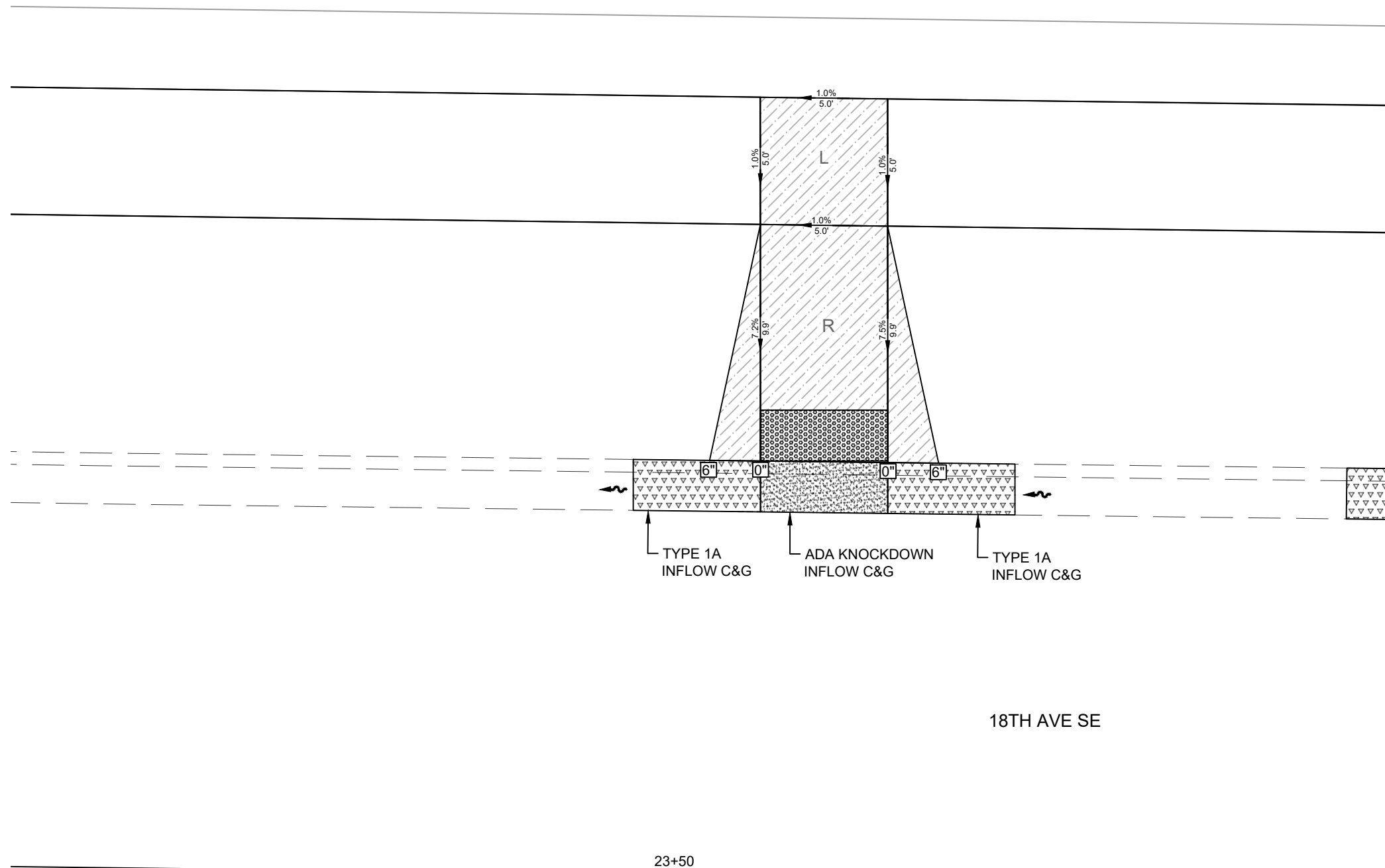
City of Minot



ADA RAMP LAYOUT
18TH AVE SE & 5TH ST SE
SE CORNER

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	15

#415



LEGEND

- | | |
|-----------|--|
| | CURB AND GUTTER |
| | CURB AND GUTTER - ADA KNOCK DOWN |
| | 6" CONCRETE VALLEY GUTTER (REINFORCED) |
| | CURB 6" |
| | 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED) |
| | 4" CONCRETE SIDEWALK (NON-REINFORCED) |
| | 6" CONCRETE SIDEWALK (NON-REINFORCED) |
| | DETECTABLE WARNING PANEL |
| | TEMPORARY CONSTRUCTION EASEMENT |
| | BACK OF CURB HEIGHT RELATIVE TO FLOW LINE |
| | WATER FLOW DIRECTION |
| L | LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS) |
| R | ADA RAMP WITH MAX SLOPE OF 8.3% |
| TP | TRANSITIONAL TIE-IN PANEL (SEE DETAIL) |
| WTL | WARPED TRANSITION LANDING (SEE DETAIL) |
| WTR | WARPED TRANSITION RAMP (SEE DETAIL) |
| | MANHOLE |
| | FIRE HYDRANT |
| | GATE VALVE |
| | PROPERTY LINE |
| - - - - - | EXISTING VALLEY GUTTER |
| - . - . - | EXISTING CURB & GUTTER |
| | CATCH BASIN |
| | UTILITY/SIGN |
| | LIGHT POLE |
-
-

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	140	SIDEWALK CONCRETE 6 IN	SY	10
750	2115	DETECTABLE WARNING PANELS	SF	10

City of Minot



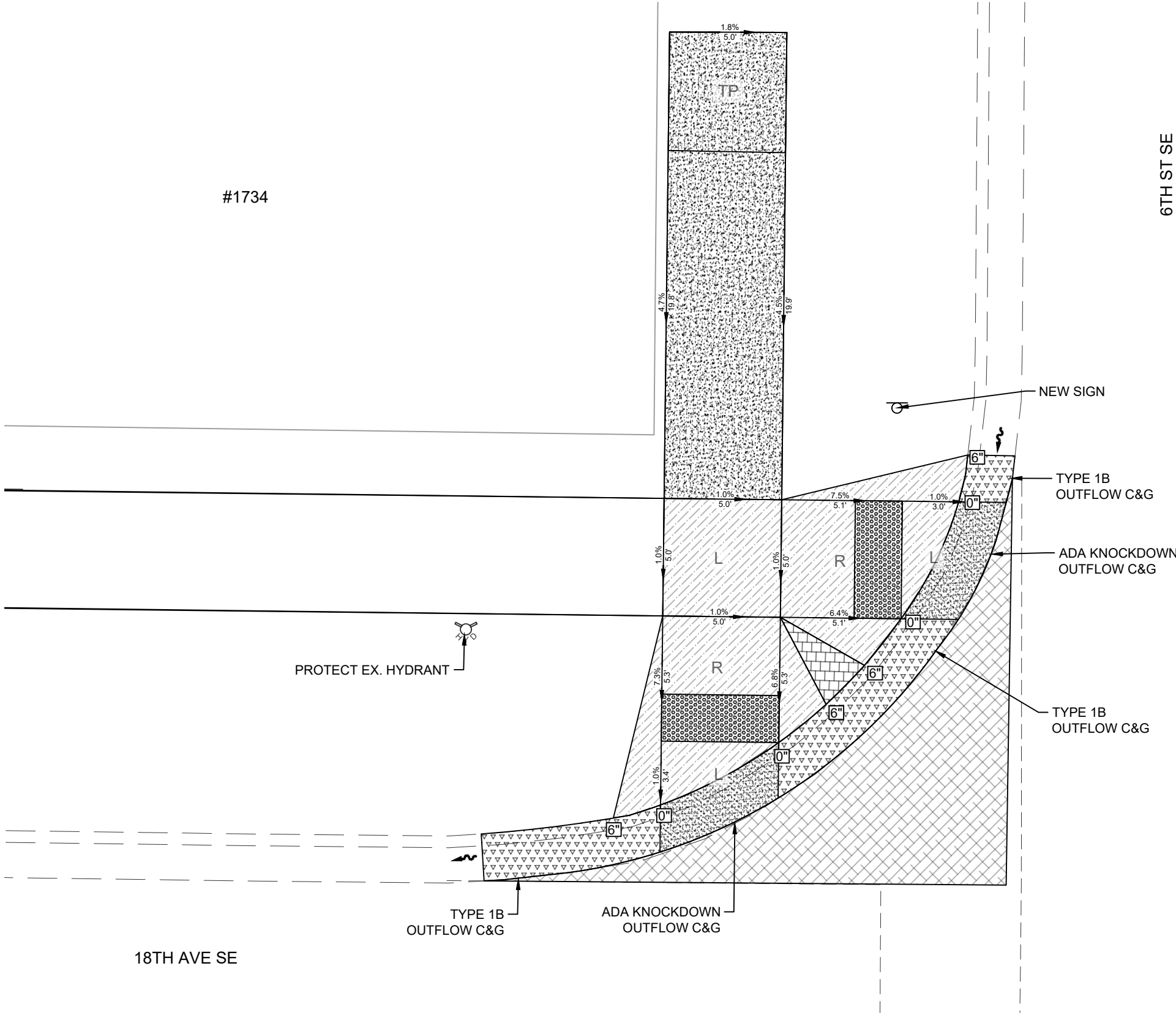
ADA RAMP LAYOUT

18TH AVE SE

5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	16

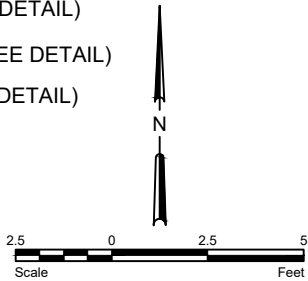


LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB 6"
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- TEMPORARY CONSTRUCTION EASEMENT
- BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- WATER FLOW DIRECTION
- LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
- ADA RAMP WITH MAX SLOPE OF 8.3%
- TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
- WARPED TRANSITION LANDING (SEE DETAIL)
- WARPED TRANSITION RAMP (SEE DETAIL)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- EXISTING VALLEY GUTTER
- EXISTING CURB & GUTTER
- CATCH BASIN
- UTILITY/SIGN
- LIGHT POLE

ABBREVIATIONS

- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE



City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

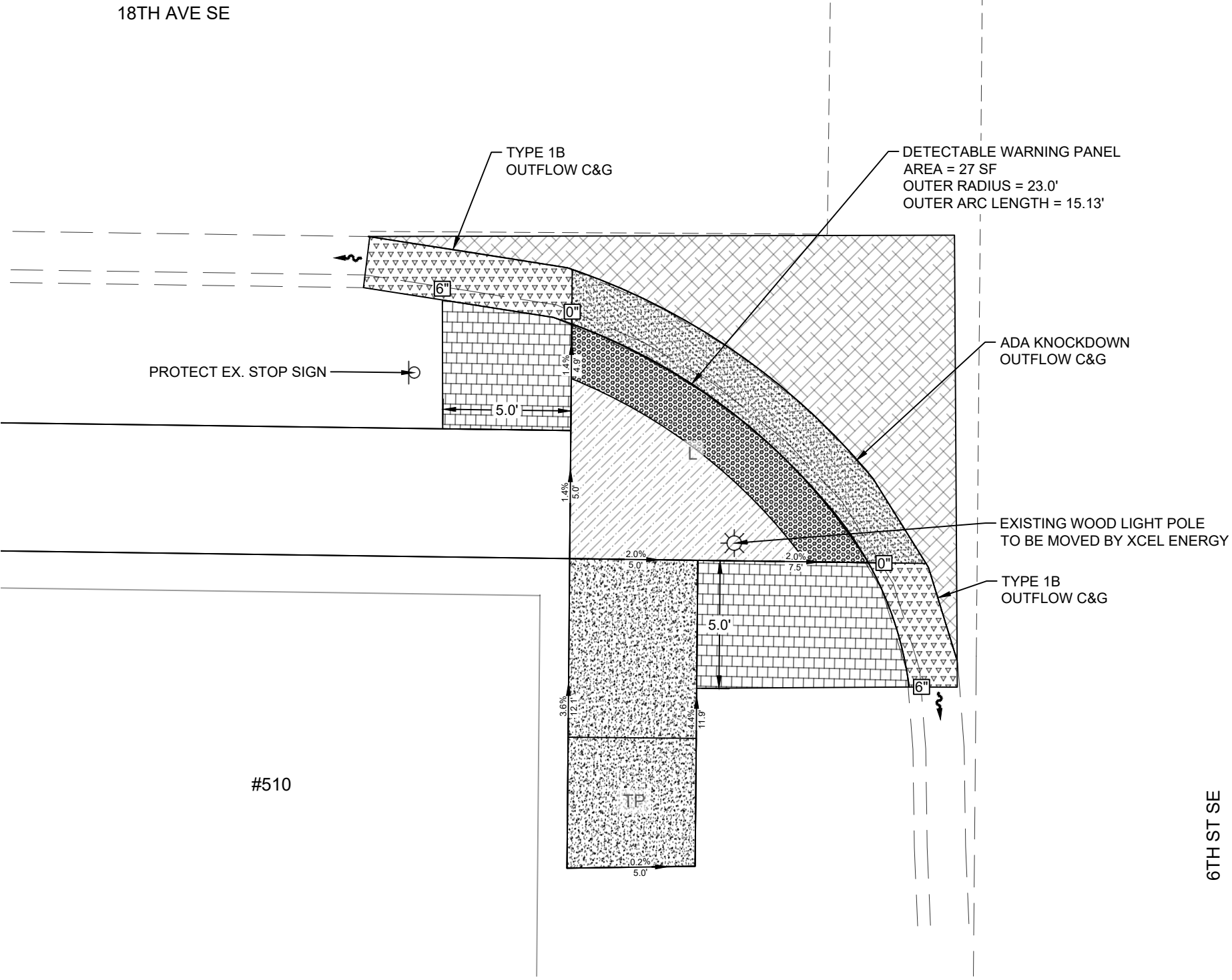
NORTH DAKOTA

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72IN	SY	11
750	30	PIGMENTED IMPRINTED CONCRETE	SY	0.5
750	115	SIDEWALK CONCRETE 4 IN	SY	11
750	140	SIDEWALK CONCRETE 6 IN	SY	13
750	2115	DETECTABLE WARNING PANELS	SF	20

ADA RAMP LAYOUT
18TH AVE SE & 6TH ST SE
NW CORNER

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

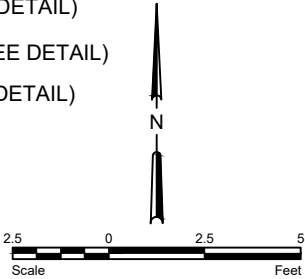
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	17



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72IN	SY	11
750	30	PIGMENTED IMPRINTED CONCRETE	SY	7
750	115	SIDEWALK CONCRETE 4 IN	SY	7
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	27

LEGEND

-
- CURB AND GUTTER
-
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
-
- CURB 6"
-
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
-
- DETECTABLE WARNING PANEL
-
-
- TEMPORARY CONSTRUCTION EASEMENT
-
-
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
-
-
- WATER FLOW DIRECTION
-
-
- L LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
-
-
- R ADA RAMP WITH MAX SLOPE OF 8.3%
-
-
- TP TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
-
-
- WTL WARPED TRANSITION LANDING (SEE DETAIL)
-
-
- WTR WARPED TRANSITION RAMP (SEE DETAIL)
-
-
- (S) (ST) MANHOLE
-
-
- FIRE HYDRANT
-
-
- X GATE VALVE
-
-
- PROPERTY LINE
-
-
- - - - - EXISTING VALLEY GUTTER
-
-
- EXISTING CURB & GUTTER
-
-
- [Grid] CATCH BASIN
-
-
- [Box] [Circle] UTILITY/SIGN
-
-
- [Sun] LIGHT POLE



ABBREVIATIONS

- TOS
- TOP OF SIDEWALK
-
- TBC
- TOP BACK OF CURB
-
- EX
- EXISTING
-
- FL
- FLOW LINE
-
- GT
- GUTTER TOE

City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

NORTH DAKOTA

ADA RAMP LAYOUT
18TH AVE SE & 6TH ST SE
SW CORNER

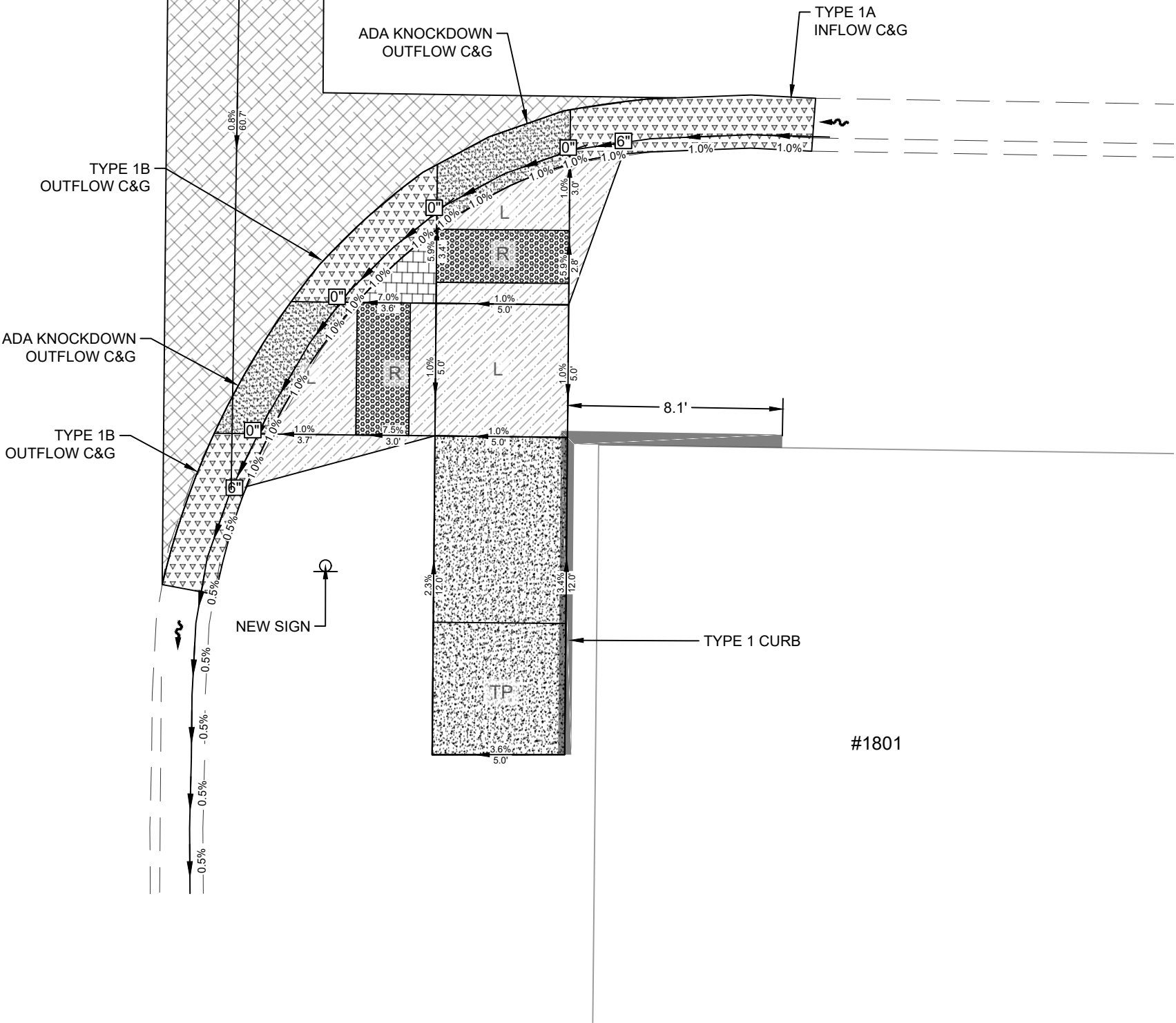
P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	18

6TH ST SE

18TH AVE SE

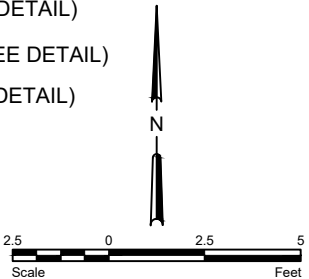


LEGEND

	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB 6"
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	TEMPORARY CONSTRUCTION EASEMENT
	BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	WATER FLOW DIRECTION
	LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
	ADA RAMP WITH MAX SLOPE OF 8.3%
	TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
	WARPED TRANSITION LANDING (SEE DETAIL)
	WARPED TRANSITION RAMP (SEE DETAIL)
	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	EXISTING VALLEY GUTTER
	EXISTING CURB & GUTTER
	CATCH BASIN
	UTILITY/SIGN
	LIGHT POLE

ABBREVIATIONS

TOS	TOP OF SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE



City of Minot



ADA RAMP LAYOUT
18TH AVE SE & 6TH ST SE
SE CORNER

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB-TYPE I	LF	20
748	1030	VALLEY GUTTER 72IN	SY	21
750	30	PIGMENTED IMPRINTED CONCRETE	SY	0.5
750	115	SIDEWALK CONCRETE 4 IN	SY	7
750	140	SIDEWALK CONCRETE 6 IN	SY	9
750	2115	DETECTABLE WARNING PANELS	SF	20

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	80	19

LEGEND

-
- CURB AND GUTTER
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB 6"
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- TEMPORARY CONSTRUCTION EASEMENT

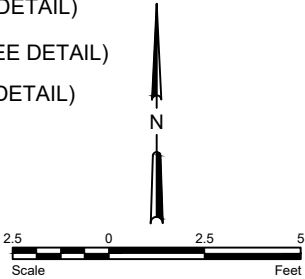
-
- BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
-
- WATER FLOW DIRECTION
-
- LOW SLOPE AREA
(2.1% MAX SLOPE IN ALL DIRECTIONS)
-
- ADA RAMP WITH MAX SLOPE OF 8.3%
-
- TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
-
- WARPED TRANSITION LANDING (SEE DETAIL)
-
- WARPED TRANSITION RAMP (SEE DETAIL)
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE

-
- PROPERTY LINE
-
- EXISTING VALLEY GUTTER
-
- EXISTING CURB & GUTTER

-
- CATCH BASIN
-
- UTILITY/SIGN
-
- LIGHT POLE

ABBREVIATIONS

- TOS
- TOP OF SIDEWALK
- TBC
- TOP BACK OF CURB
- EX
- EXISTING
- FL
- FLOW LINE
- GT
- GUTTER TOE



City of Minot



ADA RAMP LAYOUT
18TH AVE SE & 6TH ST SE
NE CORNER

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72 IN	SY	21
750	30	PIGMENTED IMPRINTED CONCRETE	SY	2
750	115	SIDEWALK CONCRETE 4 IN	SY	9
750	140	SIDEWALK CONCRETE 6 IN	SY	16
750	2115	DETECTABLE WARNING PANELS	SF	20

6TH ST SE

#601

TYPE 1A
INFLOW C&G

ADA KNOCKDOWN
OUTFLOW C&G

TYPE 1B
OUTFLOW C&G

ADA KNOCKDOWN
OUTFLOW C&G

TYPE 1B
OUTFLOW C&G

PROTECT EX. STREET SIGN

PROTECT EX. STOP SIGN

18TH AVE SE

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			BY PHASE NO.				
			1	2			
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				26	
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)				18	
G20-10-108	108"x48"	CONTRACTOR SIGN				70	
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 \$80 WHEN WORKERS PRESENT				59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)				10	
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)				7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)				7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)				7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)				7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)				7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT				15	
M4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)				7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)				7	
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)				9	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)				7	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)				9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)				7	
R1-1-48	48"x48"	STOP				32	
R1-2-60	60"x60"	YIELD				29	
R2-1-36	36"x48"	SPEED LIMIT (Portable only)				30	
R2-1-48	48"x60"	SPEED LIMIT				39	
R2-1aP-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)				10	
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	
R8-3a	24"x30"	NO PARKING	8	8	8	6	48
R9-9-24	24"x12"	SIDEWALK CLOSED (Mounted on barricade)	11	13	13	3	39
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)				12	
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)	1		1	15	15
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT				35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT	2	2	2	35	70
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT				35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW				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				35	
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT				35	
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	
W12-2-48	48"x48"	LOW CLEARANCE				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	
W16-7p-24	24"x12"	LEFT or RIGHT DIAGONAL ARROW (Mounted on pedestrian sign post)	16	18	18	7	126
W20-1-48	48"x48"	ROAD WORK AHEAD or FT or MILE	20	19	20	35	700
W20-2-48	48"x48"	DETOUR AHEAD or FT or MILE				35	
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or FT or MILE				35	
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT or MILE				35	
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				35	
W20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back				5	
W20-52P-54	54"x12"	NEXT MILES (Mounted on warning sign post)				12	
W21-1-48	48"x48"	WORKERS				35	
W21-2-48	48"x48"	FRESH OIL				35	

[illegible][illegible]

SPEC & CODE			
704-1000	TRAFFIC CONTROL SIGNS	TOTAL UNITS	1103

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY		TOTAL QUANTITY
			BY PHASE NO.		
			1	2	
704-0100	FLAGGING	MHR			
704-1048	PORTABLE RUMBLE STRIPS	EACH			
704-1050	TYPE I BARRICADES	EACH			
704-1051	TYPE II BARRICADE	EA	11	13	13
704-1052	TYPE III BARRICADES	EACH	3		3
704-1058	PEDESTRIAN WALKWAY	LF	298	207	298
704-1060	DELINEATOR DRUMS	EACH	221	238	238
704-1065	TRAFFIC CONES	EACH			
704-1067	TUBULAR MARKERS	EACH	131	165	165
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			
704-1500	OBLITERATION OF PVMT MK	SF			
704-2108	TEMPORARY CURB RAMP	EA	13	9	13
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			

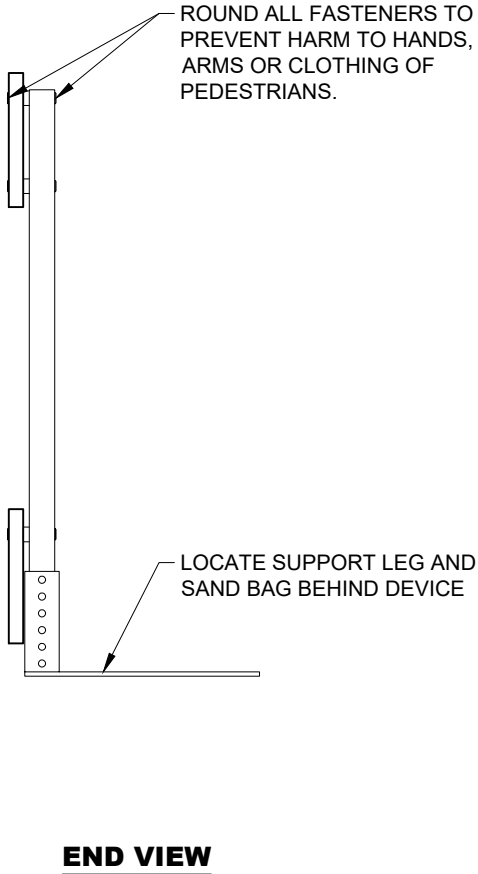
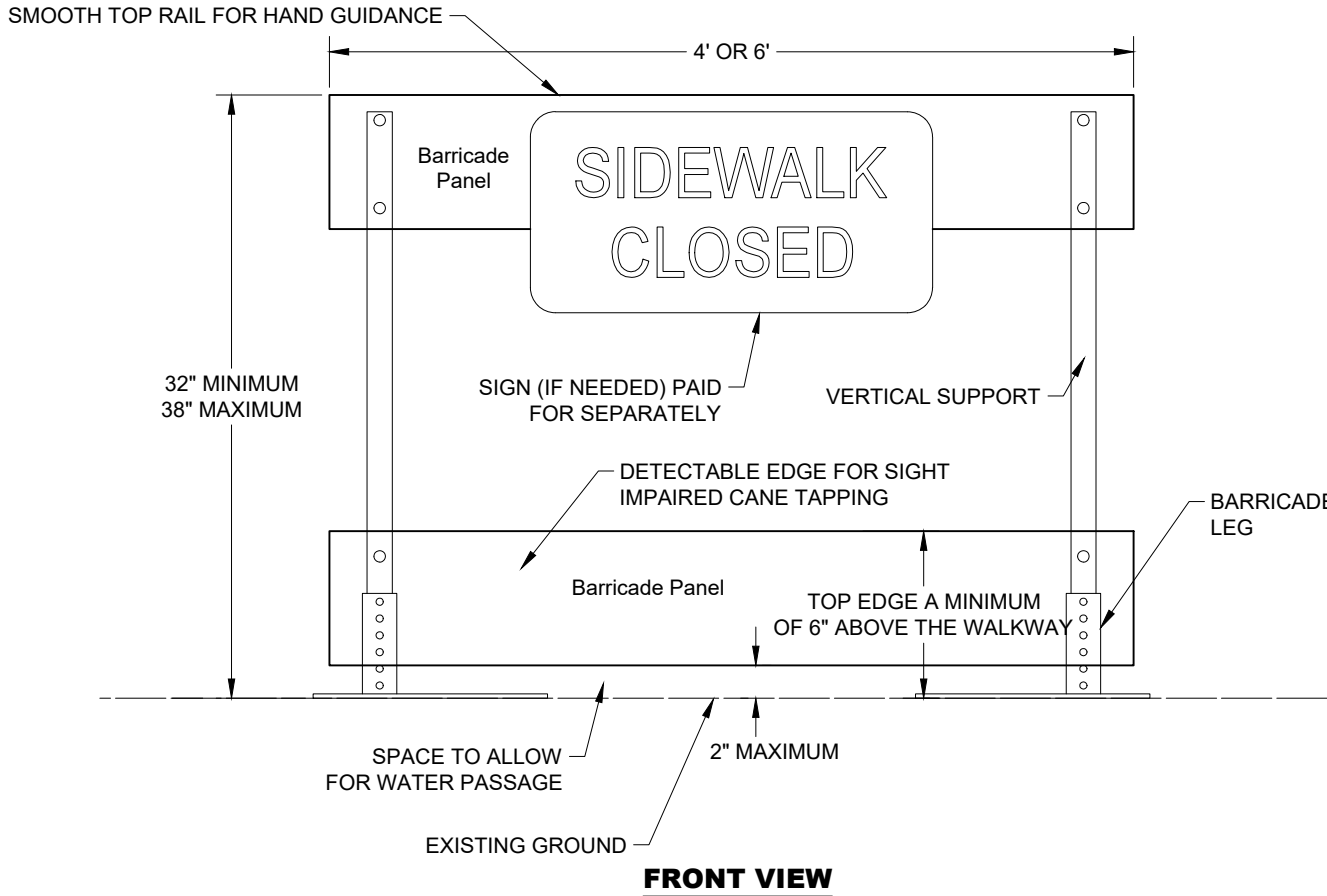
NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
<http://www.dot.nd.gov/>



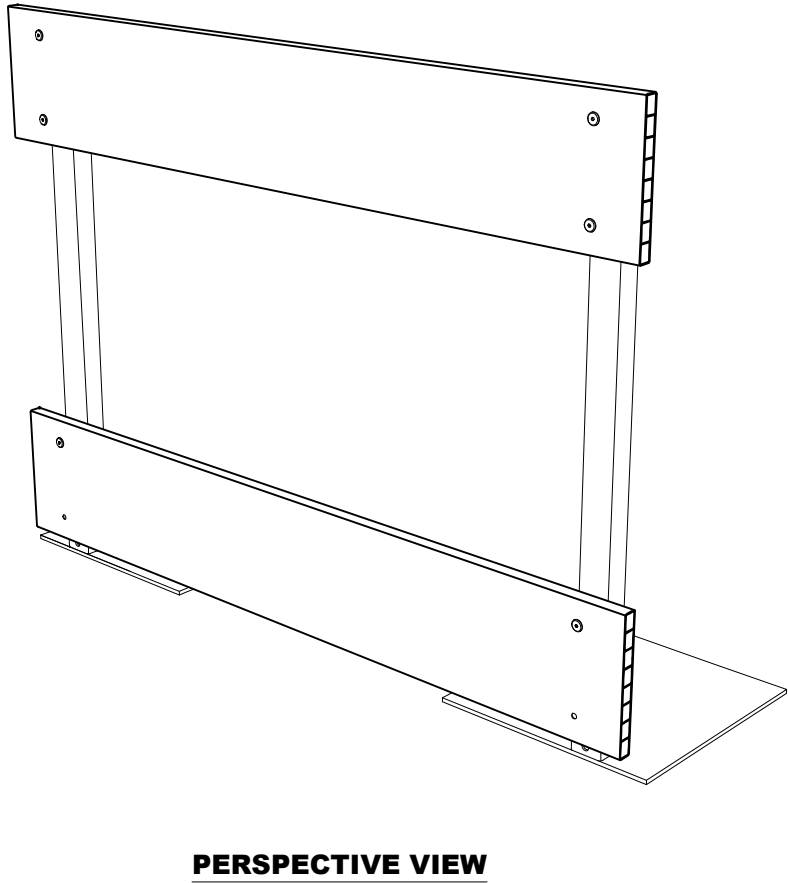
DEVICES LIST

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	2



- 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. INCLUDES ALL COSTS TO FURNISH, MAINTAIN AND REMOVE SIDEWALK BARRICADES IN THE PRICE BID FOR "SIDEWALK BARRICADE."
 5. ADA COMPLIANT ORANGE OR WHITE HIGH DENSITY UV STABILIZED POLYETHYLENE INTERLOCKING WALL PANELS ARE AN ACCEPTABLE ALTERNATIVE TO TRADITIONAL BARRICADES.



City of Minot

REGISTERED PROFESSIONAL ENGINEER















JESSE
HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

NORTH DAKOTA

DEVICES DETAILS

5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	3

 R3-2 30"X30"	 R9-9 24"X12"	 W1-4L 30"X30"	 W16-7PR 24"X12"	 W16-7PL 24"X12"
 W20-1 36"X36"	 W20-5R 36"X36"	 S1-1 36"X36"	 R8-3a 24"X30"	 PORTABLE MOUNT SYMBOL
 TYPE 3 BARRICADE SYMBOL	 TUBULAR MARKER (28" MIN)	 SIDEWALK BARRICADE SYMBOL	 DELINEATOR DRUM	

City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE
HOFFART

Jesse Hoffart

PE-29748

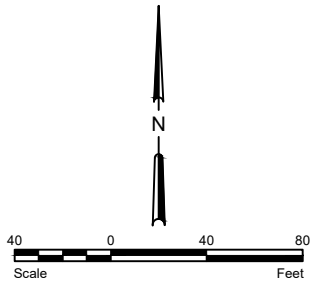
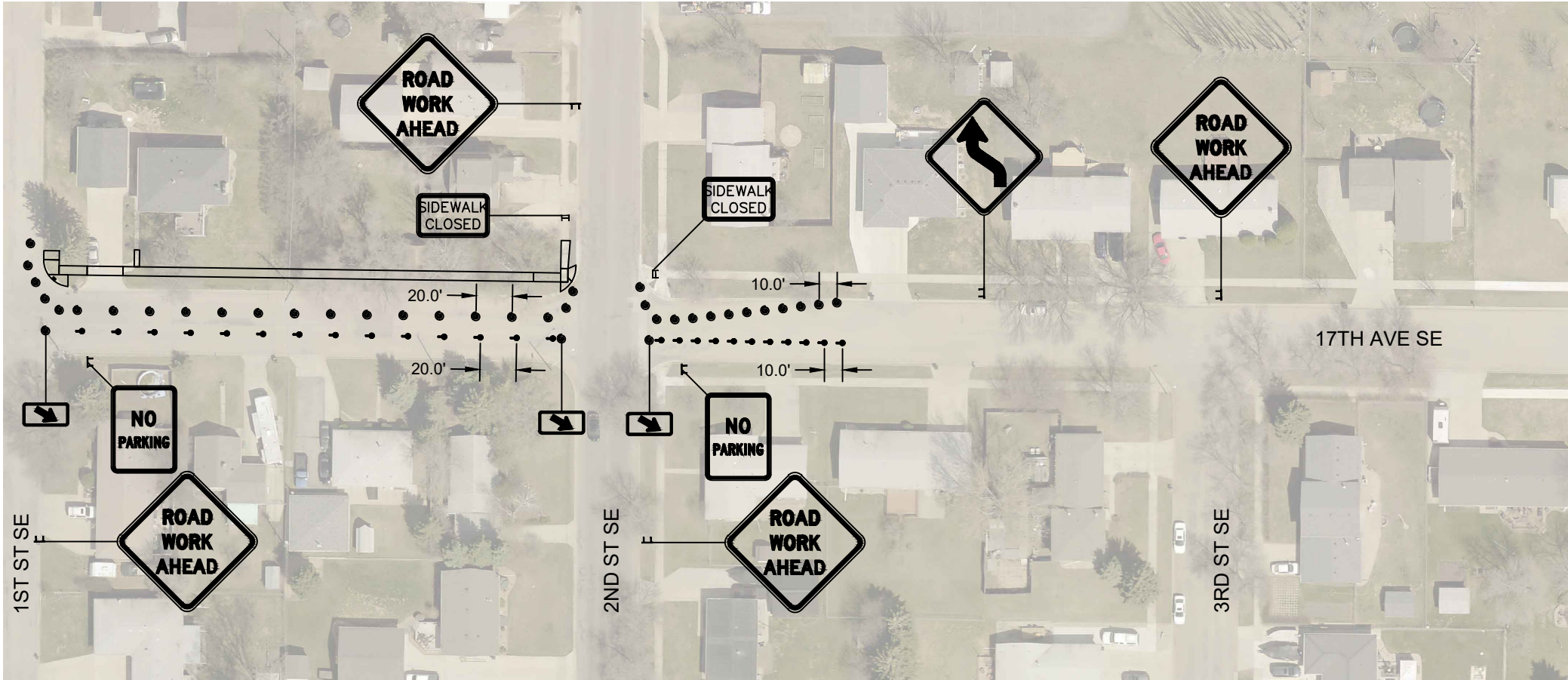
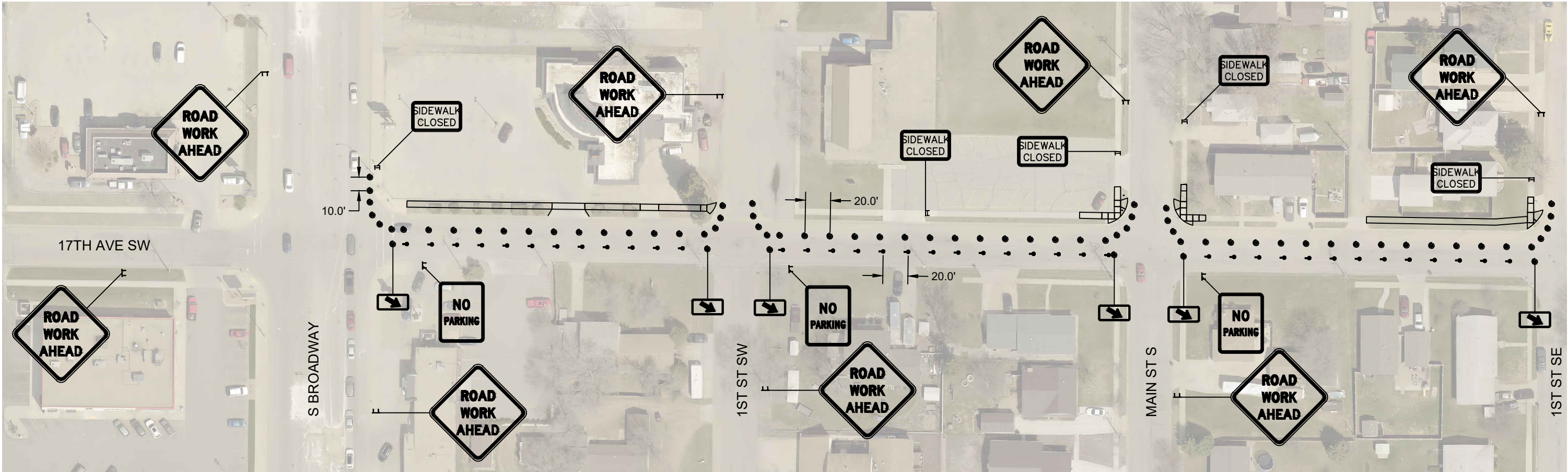
DATE 1/7/2025

NORTH DAKOTA

PLAN LEGEND

5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	4



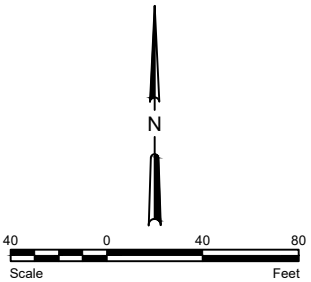
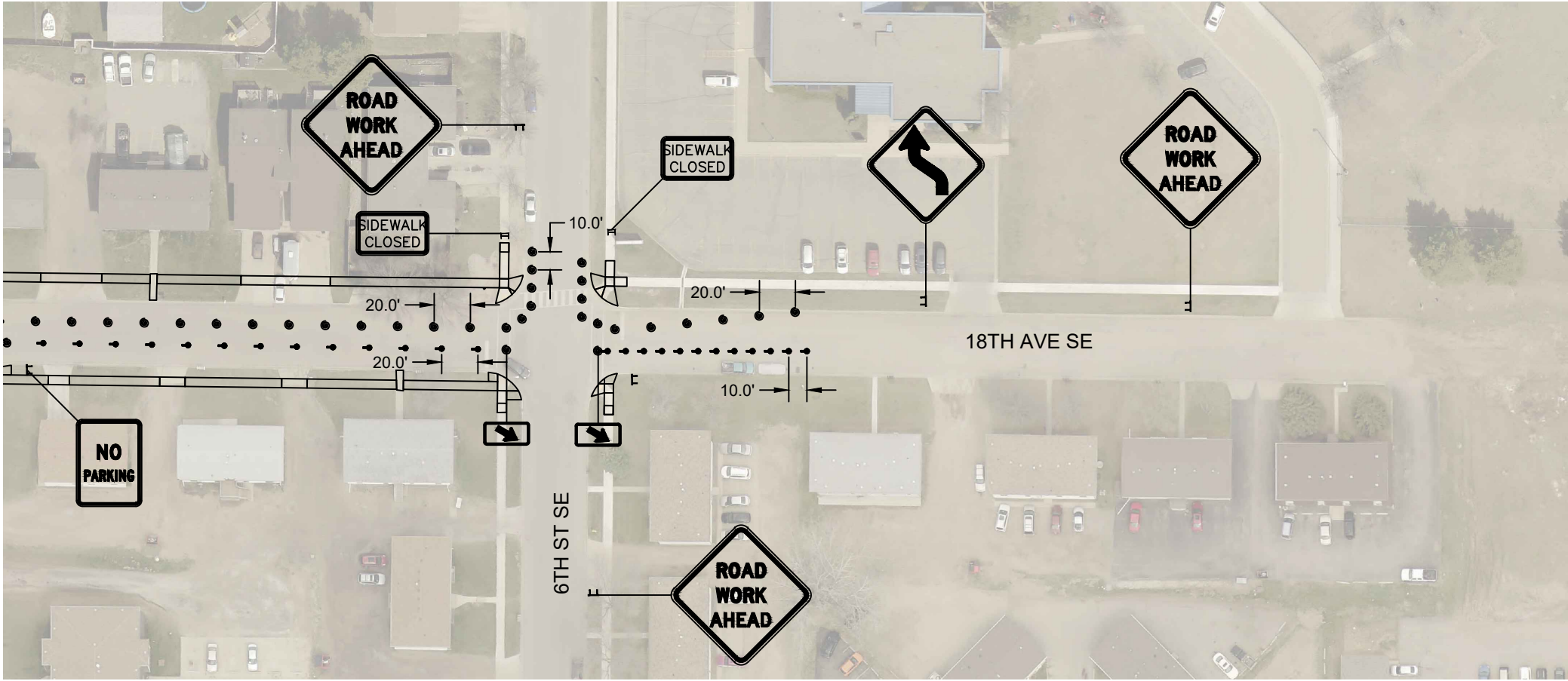
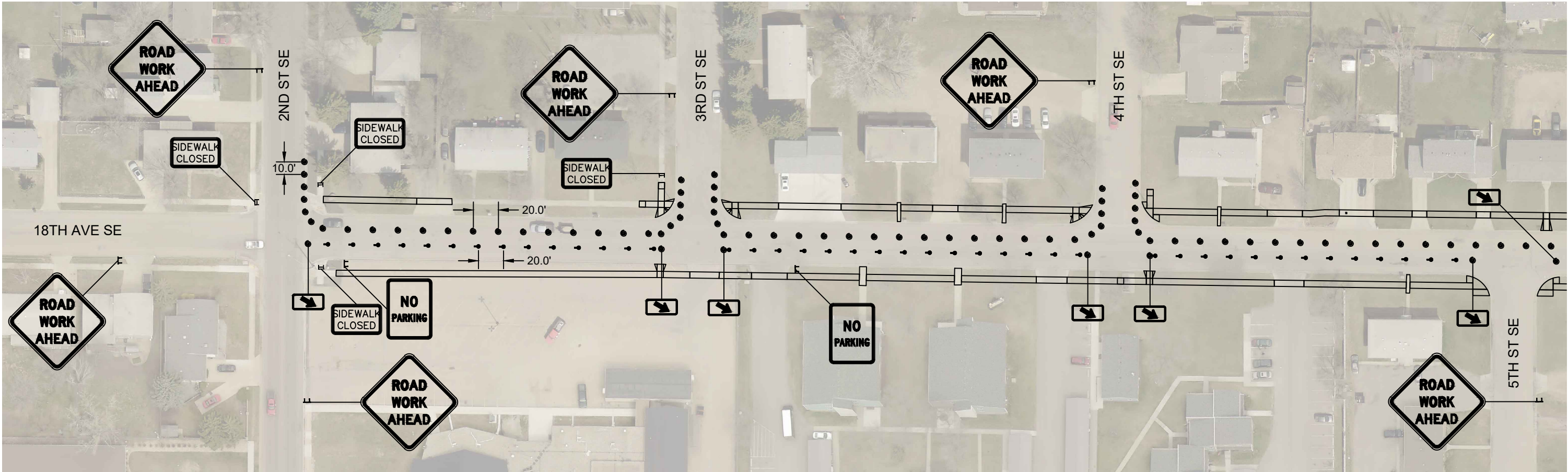
City of Minot



TRAFFIC CONTROL
17TH AVE SW/SE

5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	5



City of Minot

REGISTERED PROFESSIONAL ENGINEER

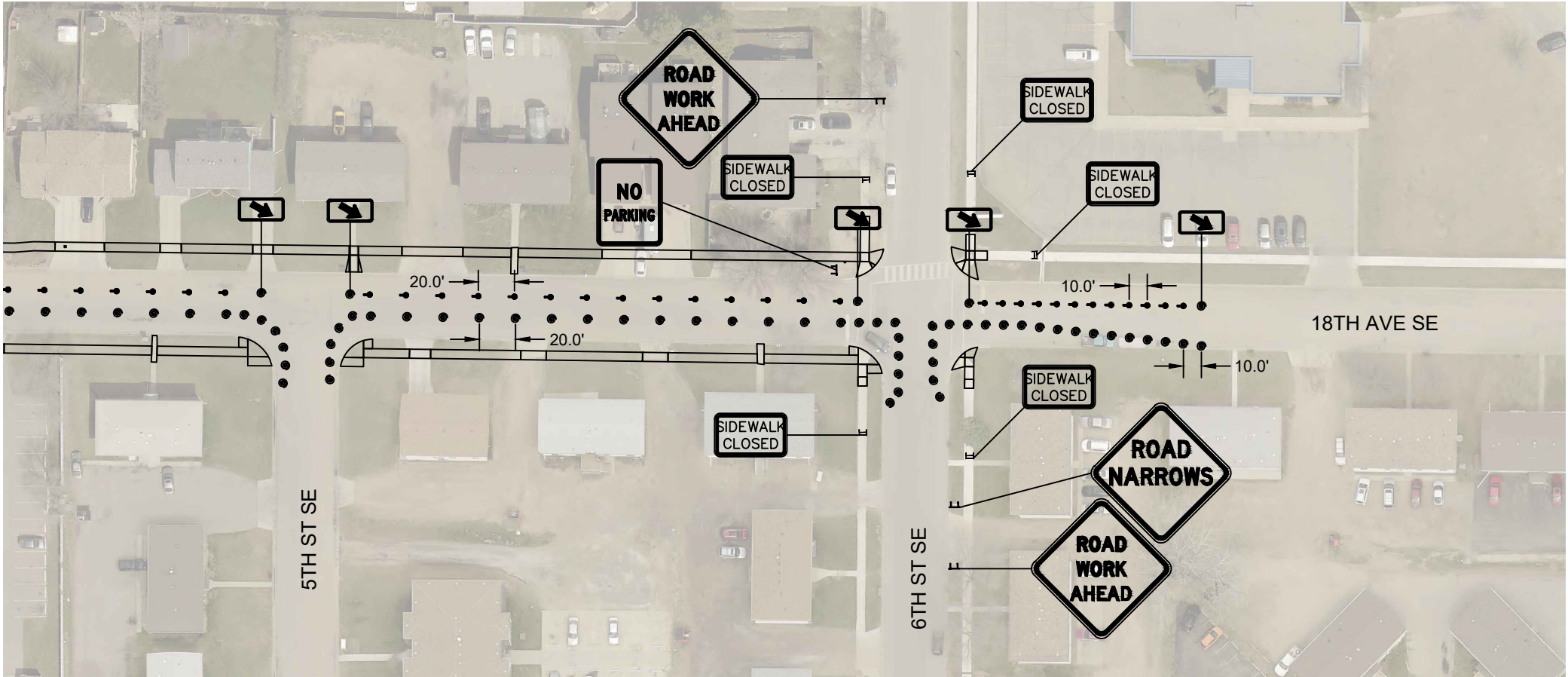
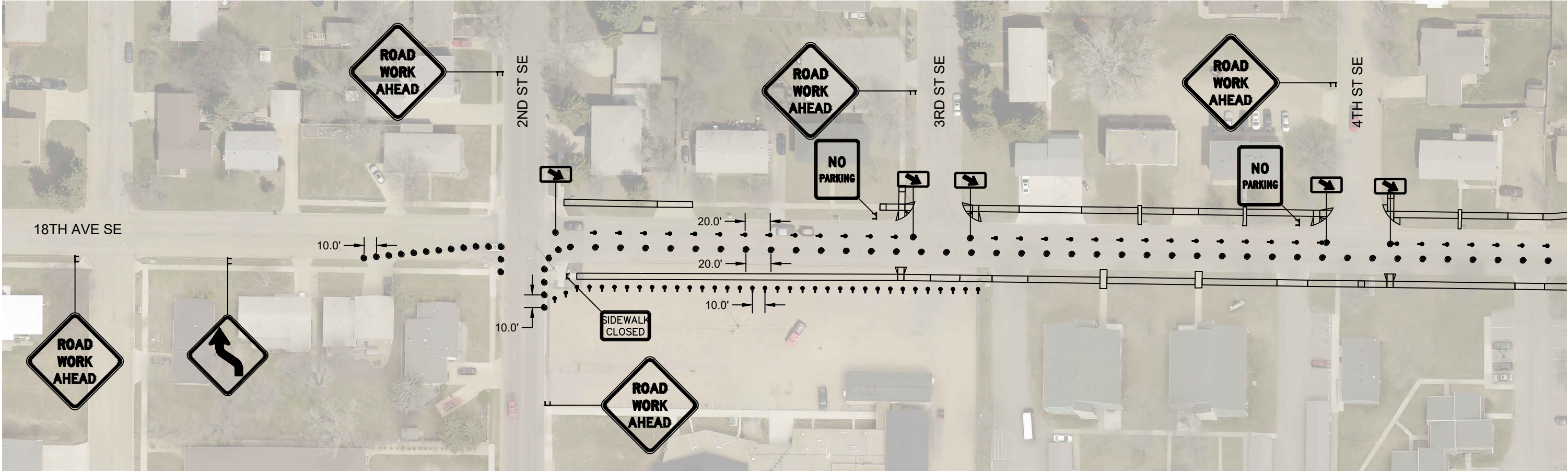
JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

NORTH DAKOTA

TRAFFIC CONTROL
18TH AVE SE - NORTH SIDE
PHASE I

5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	6



City of Minot

REGISTERED PROFESSIONAL ENGINEER

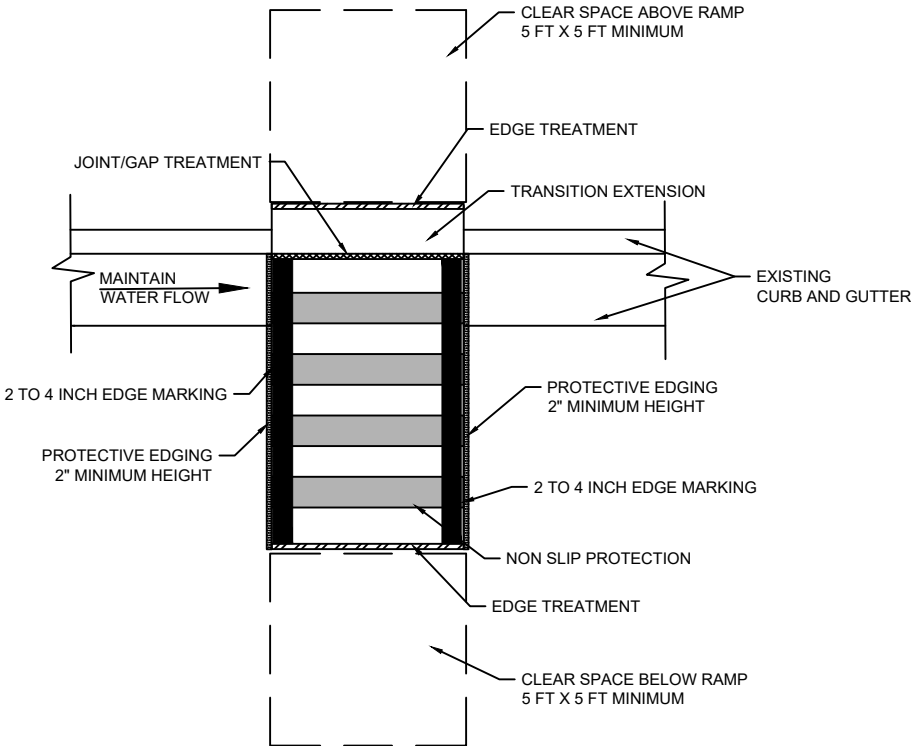
JESSE HOFFART
Jesse Hoffart
PE-29748
DATE 1/7/2025

NORTH DAKOTA

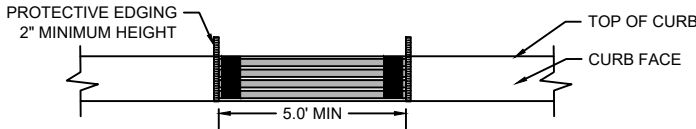
TRAFFIC CONTROL
18TH AVE SE - SOUTH SIDE
PHASE II

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 7/18/2023

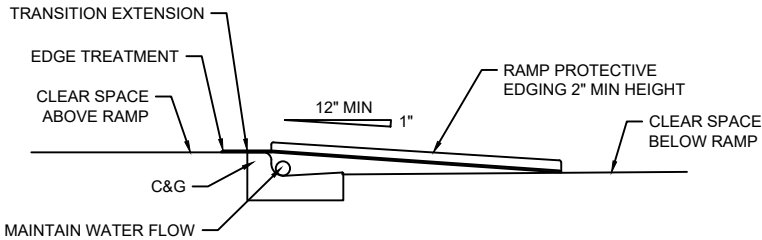
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	7



TOP VIEW



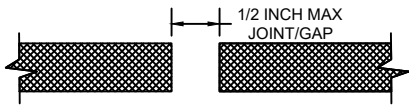
FRONT VIEW



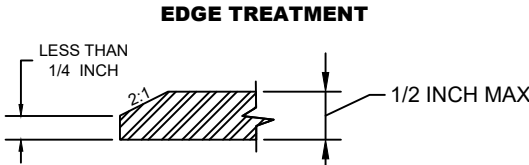
SIDE VIEW

TEMPORARY PERPENDICULAR CURB RAMP

JOINT/GAP TREATMENT

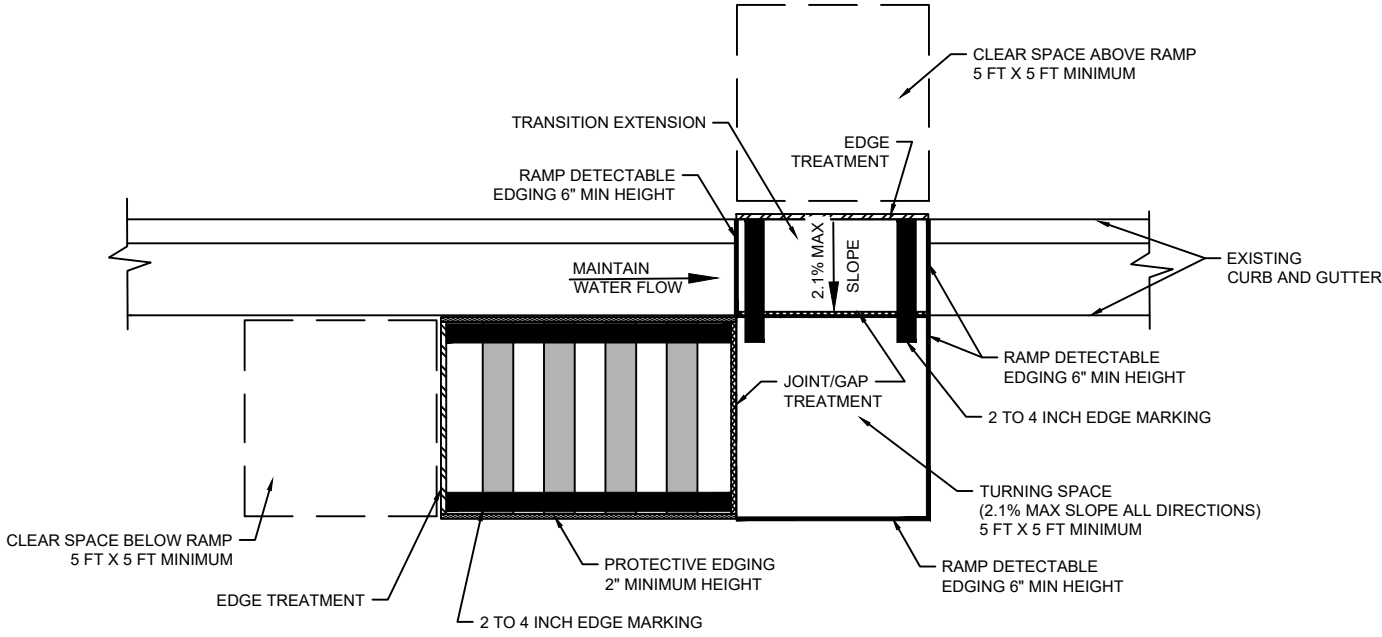


MAXIMUM WIDTH
LATERAL JOINTS OR GAPS

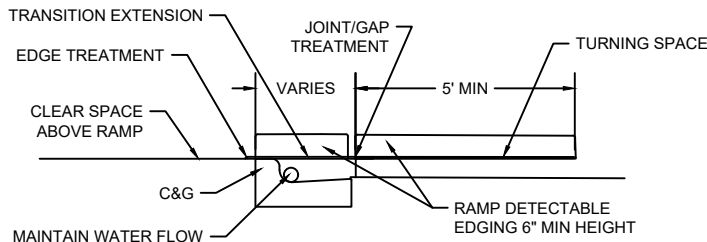


EDGE TREATMENT

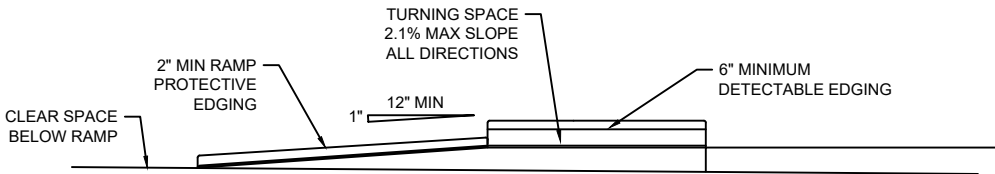
MAXIMUM SURFACE
HEIGHT CHANGE DETAIL



TOP VIEW



SIDE VIEW



FRONT VIEW

TEMPORARY PARALLEL CURB RAMP

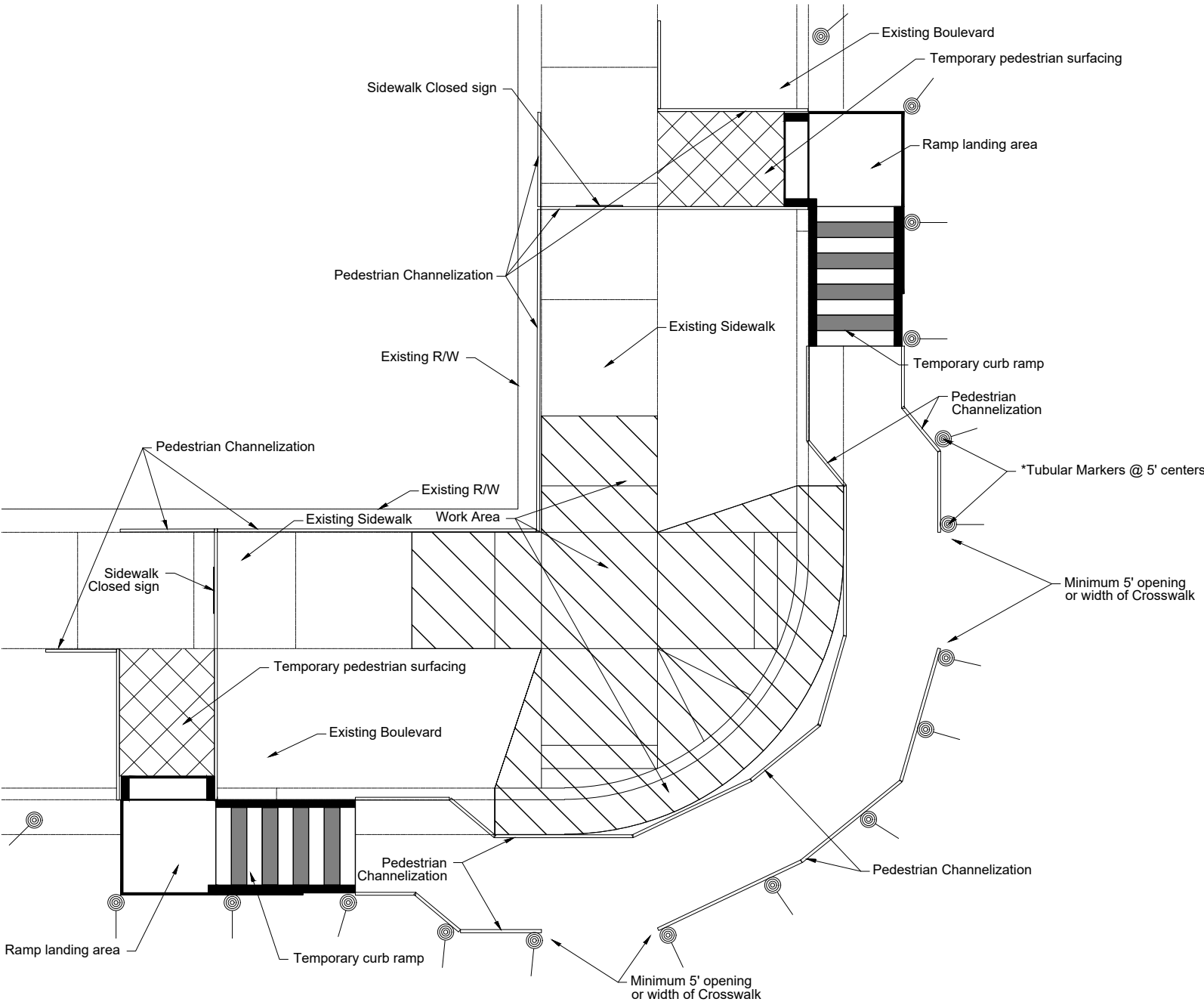
City of Minot



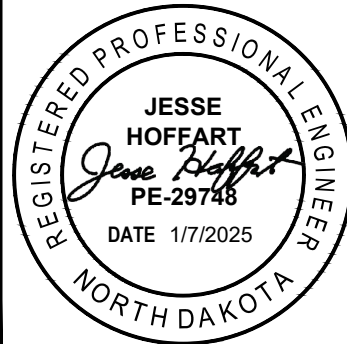
TEMPORARY CURB RAMP
DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	8

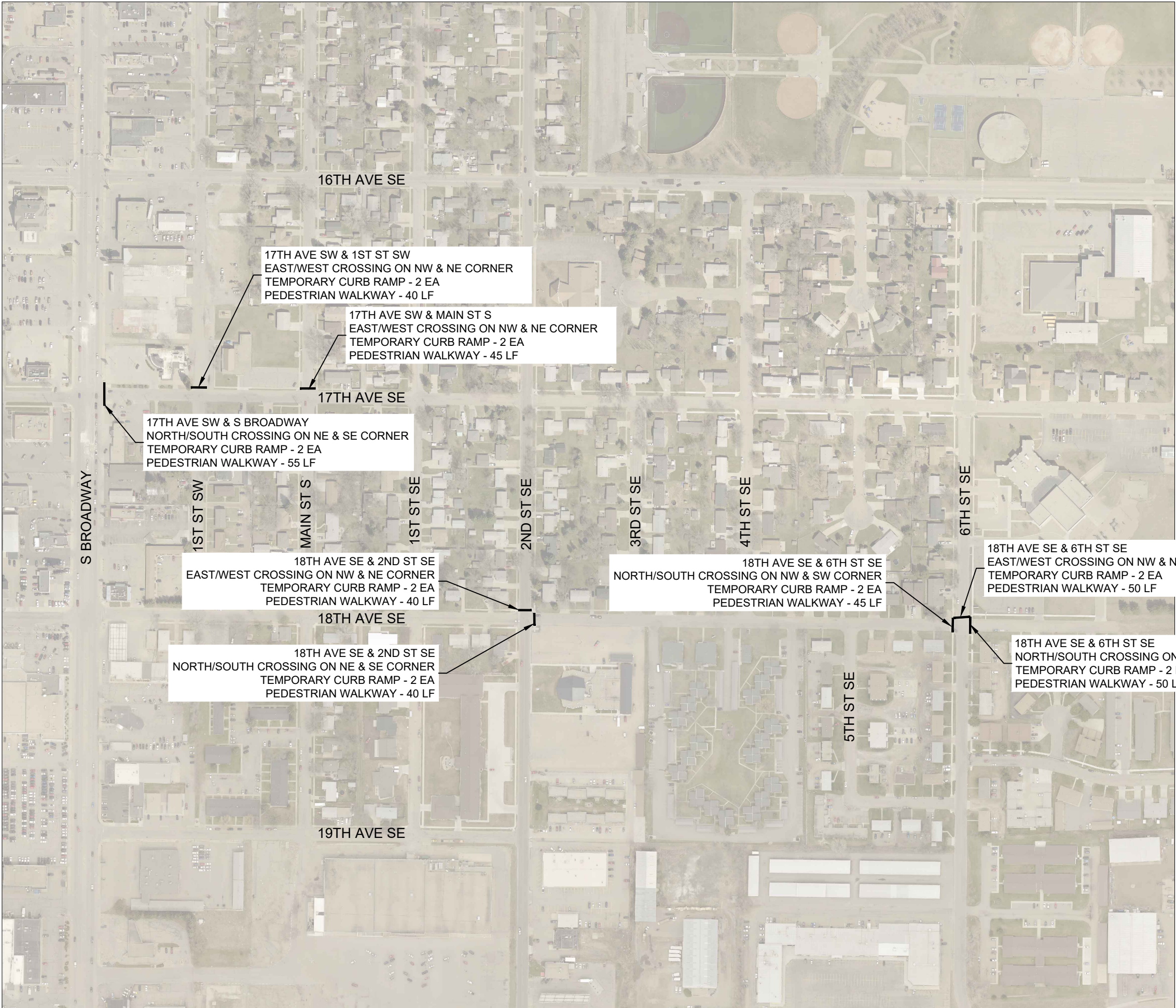
*NOTE: Eliminate tubular markers if pedestrian channelization is retro-reflective



City of Minot



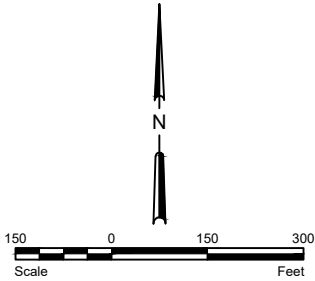
TEMPORARY CURB RAMP
TYPICAL LAYOUT



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	100	9

LEGEND

TEMPORARY CURB RAMP &
PEDESTRIAN ROUTE LOCATION



City of Minot

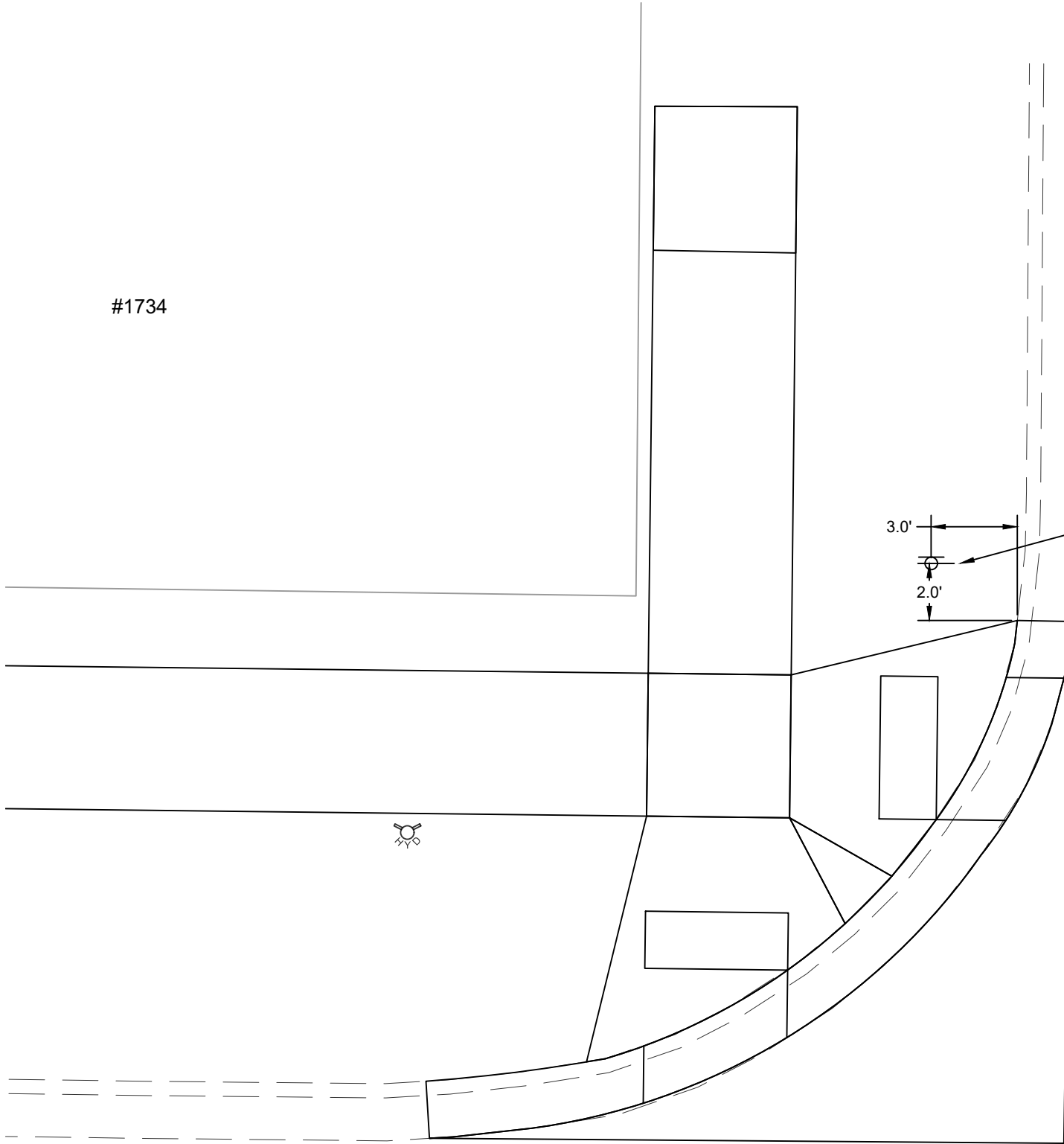


TEMPORARY CURB RAMP
PEDESTRIAN ROUTE
LOCATIONS

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	110	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
754	110	FLAT SHEET FOR SIGNS - TYPE XI REFL SHEETING	SF	9
754	206	STEEL GALV POSTS - TELESOPING PERFORATED TUBE	LF	8



#1734

6TH ST SE

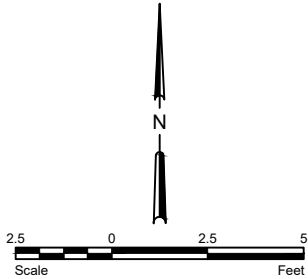
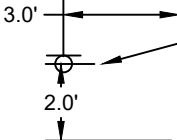
18TH AVE SE



S1-1
36"x36"

W16-7P
24"x12"

INSTALL NEW CROSSING SIGN



City of Minot

SIGNING
NEW SIGN DIMENSIONS

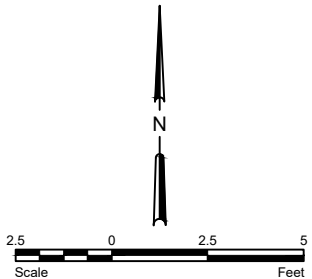
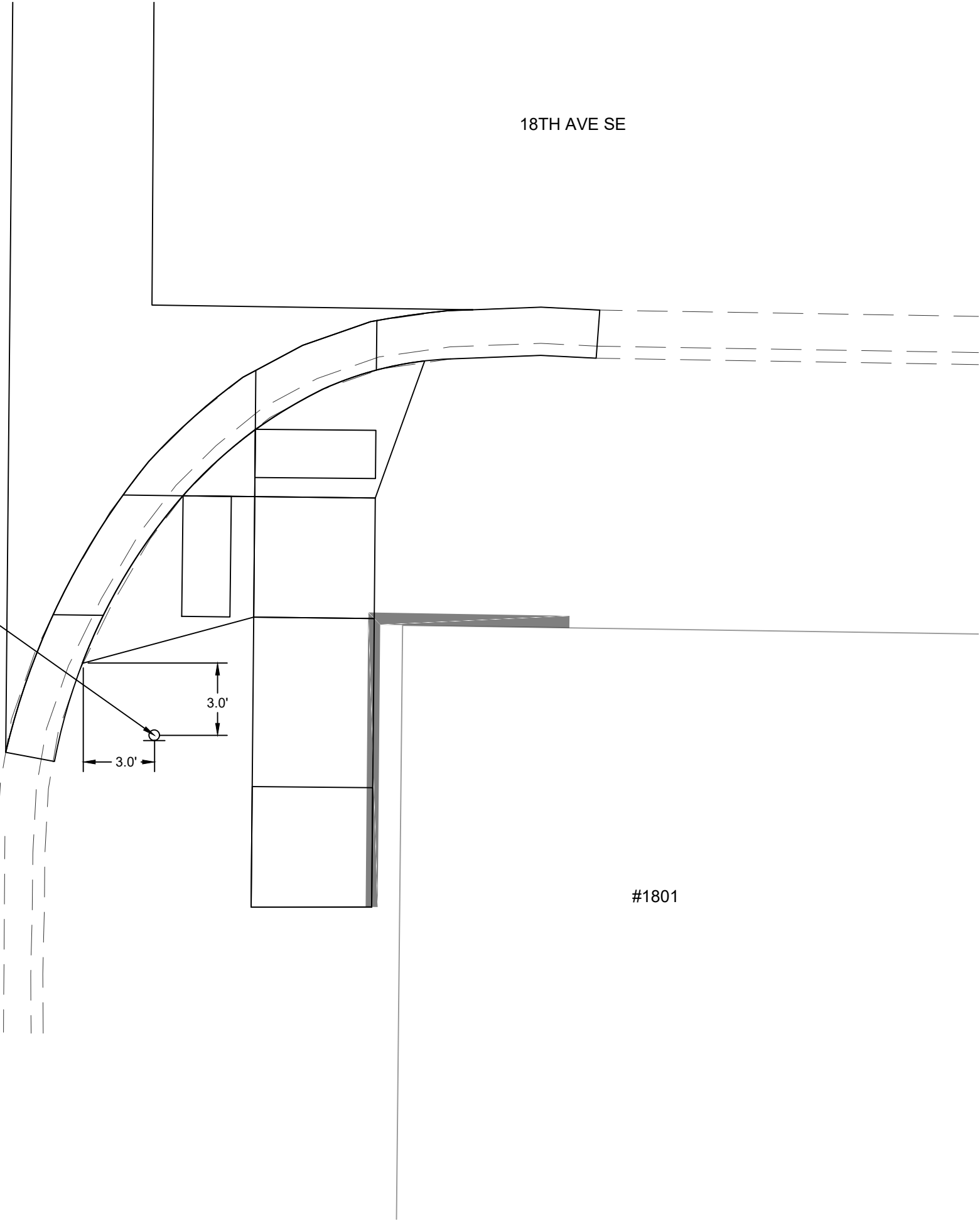
5/23/2023 P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	110	2

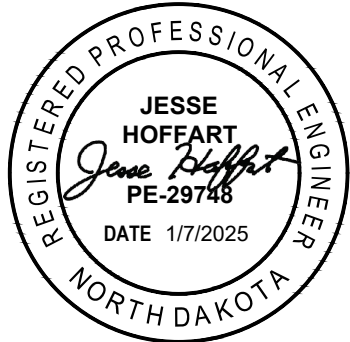
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
754	110	FLAT SHEET FOR SIGNS - TYPE XI REFL SHEETING	SF	9
754	206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	8

6TH ST SE

18TH AVE SE

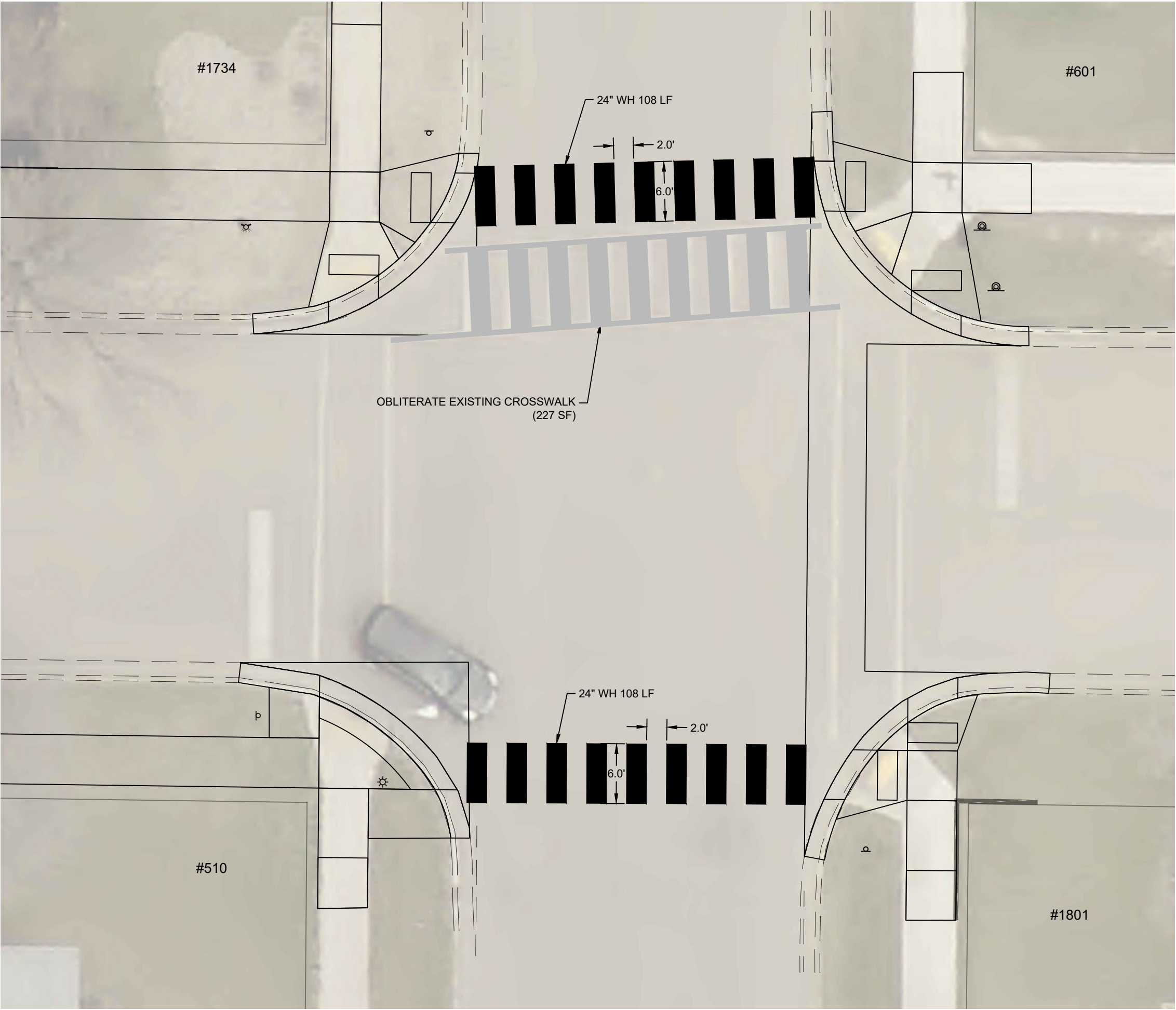


City of Minot



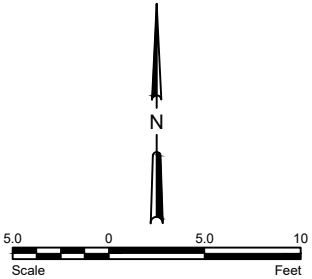
SIGNING
NEW SIGN DIMENSIONS

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	120	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
704	1500	OBLITERATION OF PAVEMENT MARKING	SF	227
762	1270	PREFORMED THERMO PLASTIC PVMT MK 24 IN LINE	LF	216



City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

Jesse Hoffart

PE-29748

DATE 1/7/2025

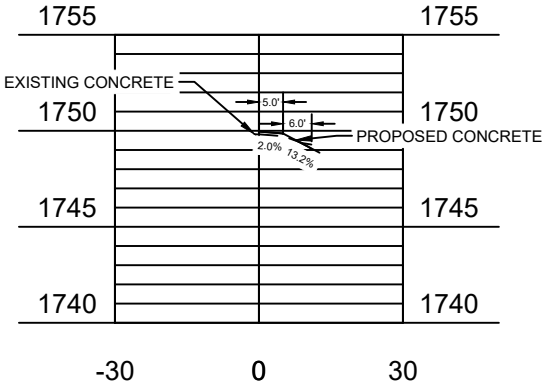
NORTH DAKOTA

PAVEMENT MARKINGS
18TH AVE SE & 6TH ST SE

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg
5/23/2023

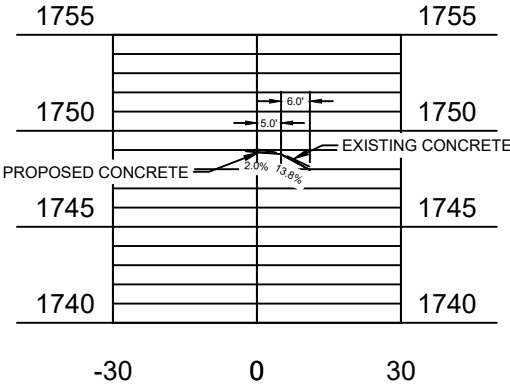
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	200	1

1631 S BROADWAY



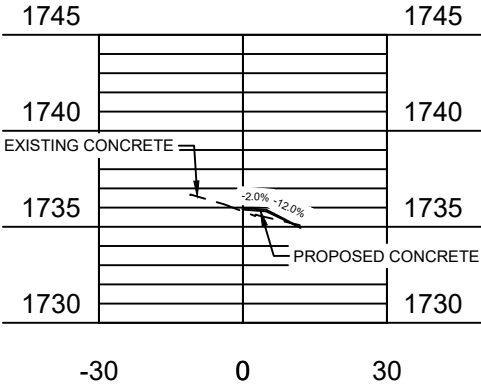
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

1631 S BROADWAY



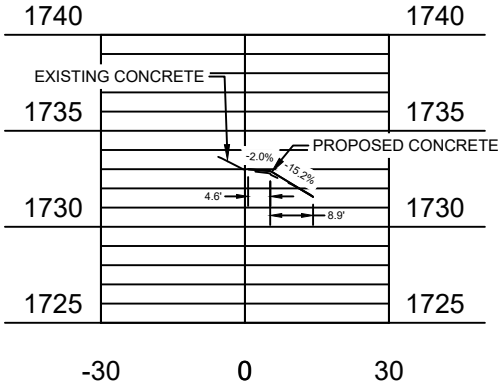
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

101 17TH AVE SE



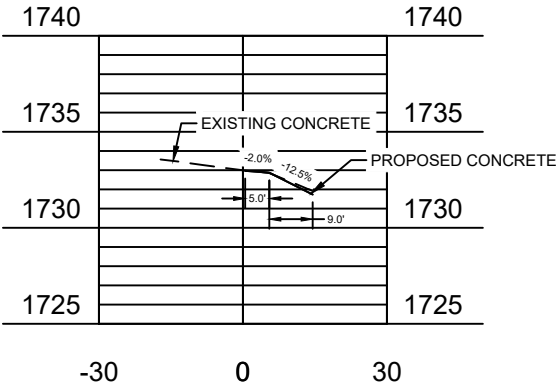
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

1735 2ND ST SE & 213 18TH AVE SE



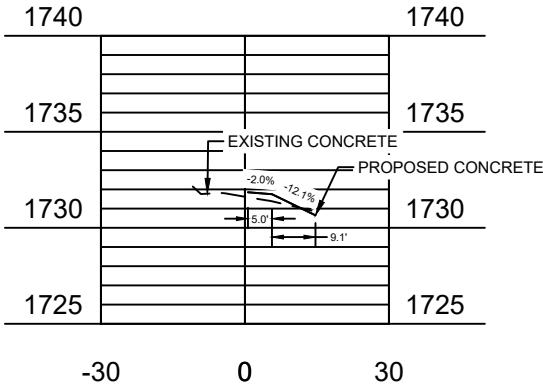
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

1735 3RD ST SE



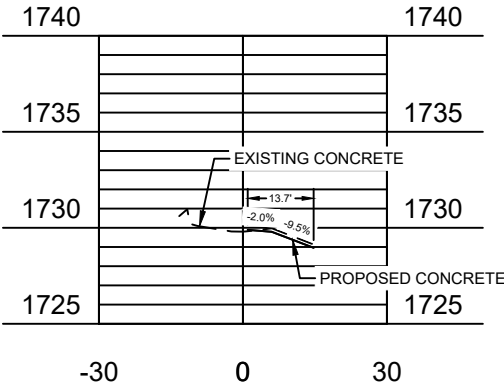
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

305 18TH AVE SE



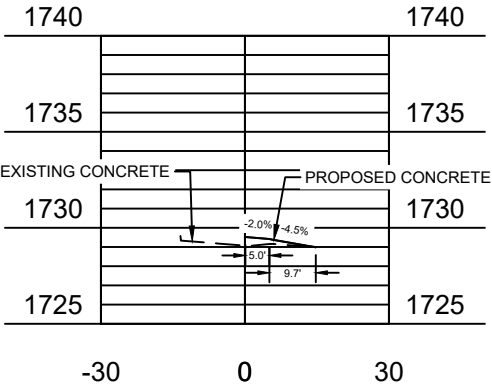
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

401 18TH AVE SE



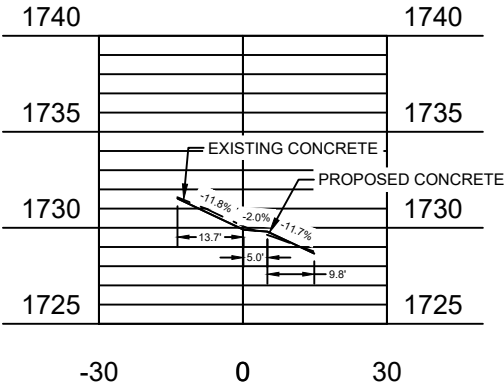
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

403 & 405 18TH AVE SE



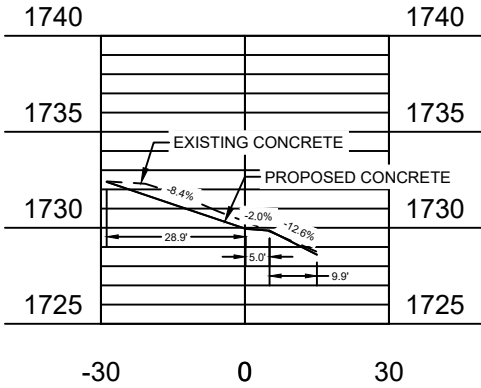
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

407 18TH AVE SE



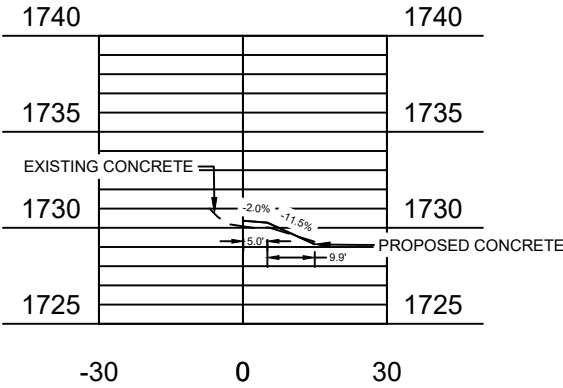
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

409 18TH AVE SE



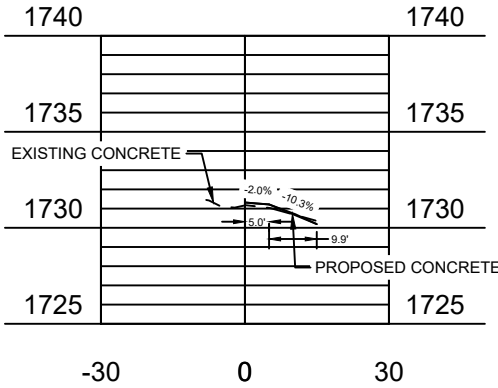
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

415 18TH AVE SE & 505 18TH AVE SE



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

509 & 511 18TH AVE SE



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

City of Minot

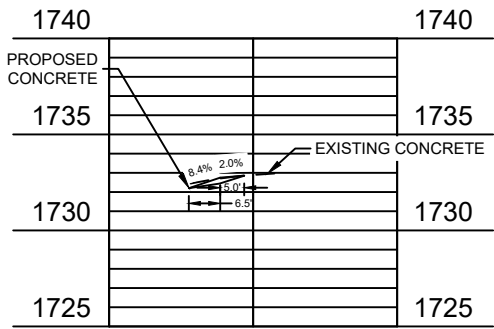


CROSS SECTIONS

P:\PROJECTS\4720 - 2025 Washington SRTS\Design\Plans\2025 Washington SRTS.dwg 5/23/2023

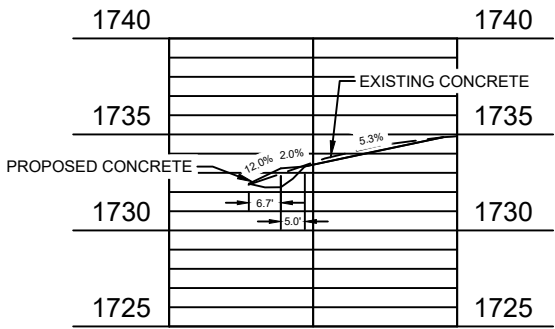
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(131)	23916	200	2

1805 2ND ST SE



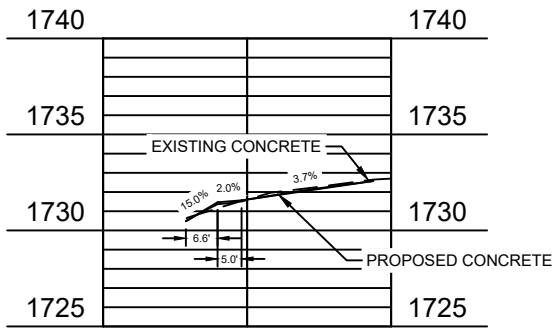
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

400 18TH AVE SE



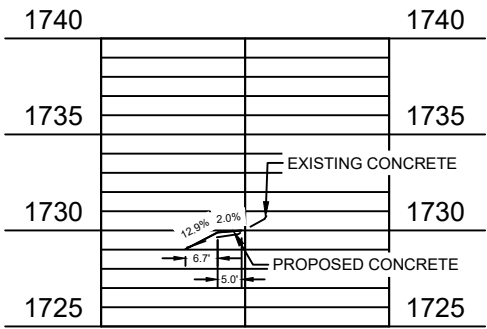
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

400 18TH AVE SE



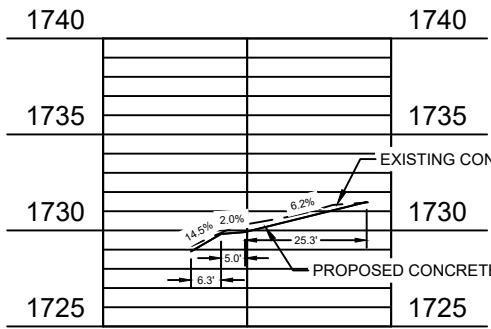
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

400 18TH AVE SE



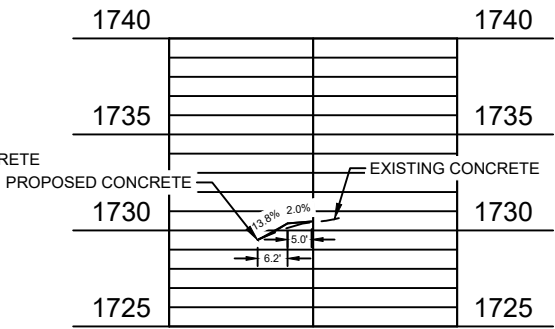
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

500 18TH AVE SE



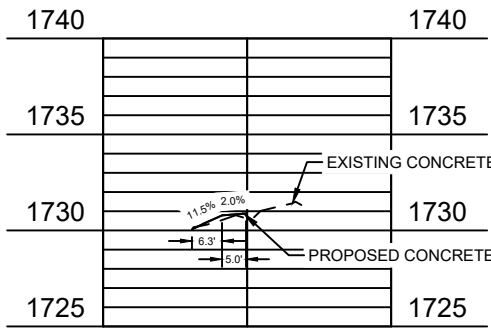
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

504 18TH AVE SE



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

504 18TH AVE SE & 510 18TH AVE SE



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

City of Minot



CROSS SECTIONS