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NORTH DAKOTA  
DEPARTMENT OF TRANSPORTATION

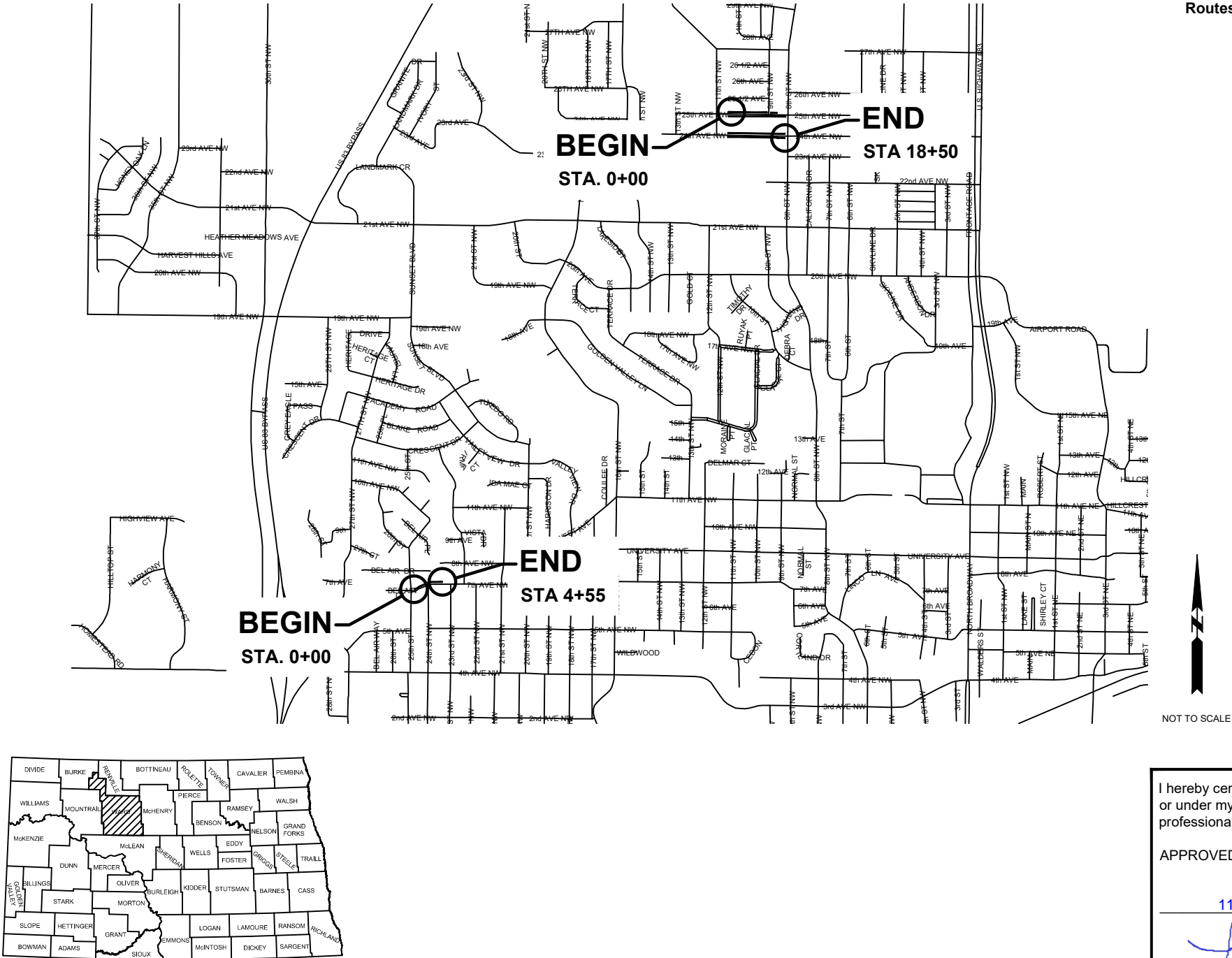
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	1	1

TAU-4-989(137)  
City of Minot Project No. 4823

Ward County  
7th Avenue NW, 24th Avenue NW, & 25th Avenue NW  
Minot, ND  
Lewis & Clark and Bel Air Safe Routes to School  
New Sidewalk, Curb Ramps, and Driveways

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	07/01/2025
Supplemental Specifications	NONE

PROJECT NUMBER \ DESCRIPTION	NET MILES	GROSS MILES
TAU-4-989(137) Lewis & Clark and Bel Air Safe Routes to School	0.44	0.44



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:

11/7/2025

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



DESIGNER  
Jesse Hoffart, PE

STATE OF NORTH DAKOTA

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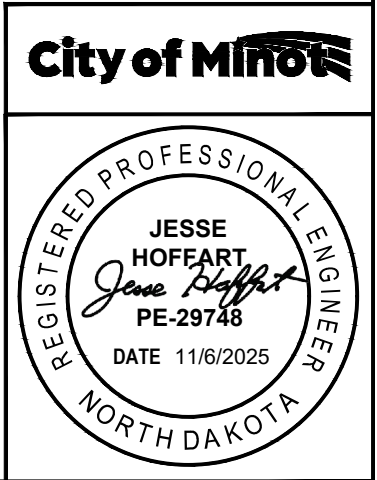
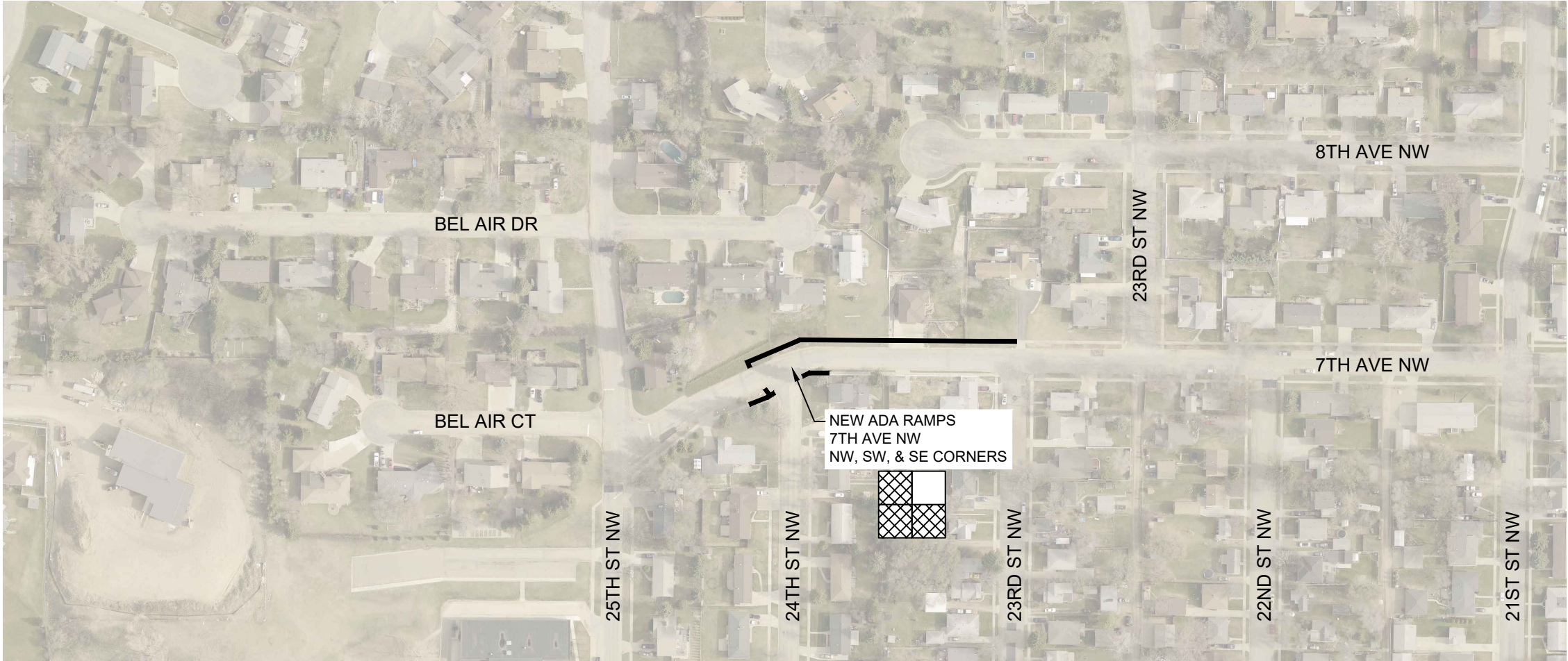
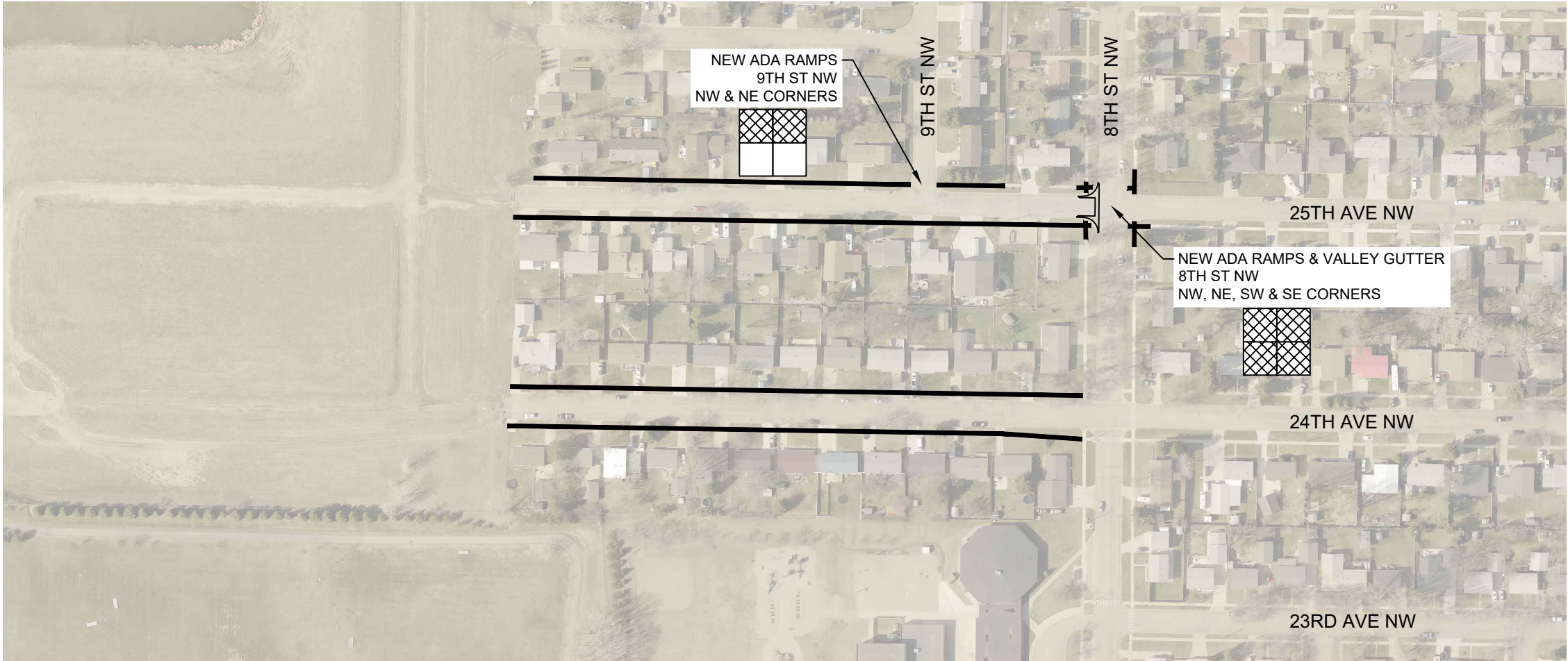



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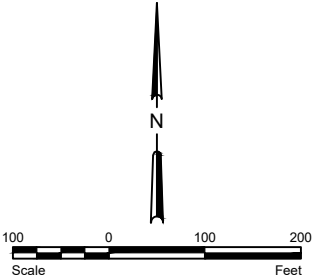



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LEGEND

 ADA RAMP

 NEW SIDEWALK







SCOPE OF WORK

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- 100-P01 COMPLETION DATES: The overall completion date for this project will be August 14, 2026. 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 by the contractor. 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. Contractor will include costs associated with salvage and reinstallation of rock areas in the "Clearing & Grubbing" item. 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).

City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFEART  
*Jesse Hoffeart*  
PE-29748  
DATE 11/6/2025

NORTH DAKOTA

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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. Herbicides shall be used on a weekly basis until the weeds are removed and further weed growth has ceased. Depending on the grass's growth rate, periodic mowing should be performed to control weed growth and enhance growth of grass seed. 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.

302-P02 AGGREGATE BASE FOR SIDEWALK: 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."

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 0.05 gal/sy undiluted.

704-P01 SIDEWALK BARRICADE: Use the sidewalk barricade as detailed in Section 100 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."

722-P02 CASTING INLET-TYPE 1 & TYPE 1 DOUBLE: All costs to remove existing catch basin casting shall be included in the the cost of "CASTING INLET-TYPE 1" and "CASTING INLET-TYPE 1 DOUBLE." Costs shall also include all materials and labor necessary to install new casting as indicated on plans.

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.

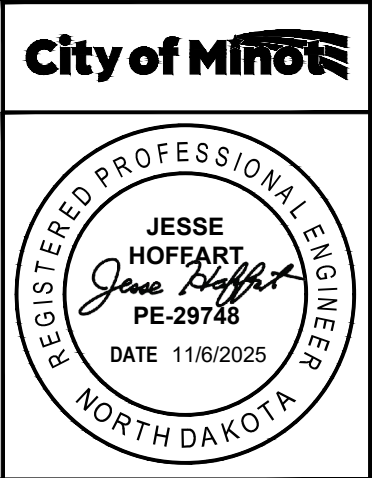
748-P04 CONTRACTION JOINTS: The contraction joints in concrete curb and gutter shall be placed no greater than 10 feet apart. All joints shall be tooled or sawed to depth sufficient to control cracking, typically ¼ of the thickness of the concrete. Match joints of adjacent concrete work when possible. 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.



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- 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-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. Joint material for an expansion joint shall be a gray low-modulus self-leveling silicone sealant that fully complies with ASTM D5893. 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.
- 930-P01 RETAINING WALL: Retaining walls shall be paid for by the square foot of wall face above the footing. The footing will not be measured separately, but will be included in the price bid for "RETAINING WALL." All reinforcement tie bars in retaining walls and footings will also be included in the price bid for "RETAINING WALL."





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SPEC	CODE	DESCRIPTION	UNIT	AMOUNT
103	100	CONTRACT BOND	L SUM	1.00
201	330	CLEARING & GRUBBING	L SUM	1.00
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	1966.00
202	130	REMOVAL OF CURB AND GUTTER	LF	1268.00
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	501.00
203	103	COMMON EXCAVATION - TYPE C	CY	376.00
203	119	TOPSOIL-IMPORTED	CY	629.00
251	300	SEEDING CLASS III	ACRE	0.78
253	200	HYDRAULIC MULCH	SY	3775.00
261	112	FIBER ROLLS 12IN	LF	200.00
261	113	REMOVE FIBER ROLLS 12IN	LF	200.00
302	120	AGGREGATE BASE COURSE CL 5	TON	1143.00
430	500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	180.00
702	100	MOBILIZATION	L SUM	1.00
704	1000	TRAFFIC CONTROL SIGNS	UNIT	485.00
704	1051	TYPE II BARRICADE	EA	10.00
704	1052	TYPE III BARRICADE	EA	9.00
704	1058	PEDESTRIAN WALKWAY	LF	300.00
704	2108	TEMPORARY CURB RAMP	EA	12.00
722	6140	ADJUST GATE VALVE BOX	EA	3.00
724	275	REMOVE & REPLACE GATE VALVE BOX	EA	1.00
724	1035	SPRINKLER RELOCATION	L SUM	1.00
748	100	CURB & GUTTER	LF	813.00
748	520	CURB-TYPE I	LF	176.00
748	1030	VALLEY GUTTER 72 IN	SY	64.00
750	30	PIGMENTED IMPRINTED CONCRETE	SY	82.20
750	115	SIDEWALK CONCRETE 4 IN	SY	1600.00
750	140	SIDEWALK CONCRETE 6 IN	SY	589.00
750	1000	DRIVEWAY CONCRETE	SY	1454.00
750	2115	DETECTABLE WARNING PANELS	SF	140.00
754	110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	13.00
754	206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	14.00
754	593	RESET SIGN SUPPORT	EA	6.00
762	1270	PREFORMED THERMO PLASTIC PVMT MK 24IN LINE	LF	54.00
930	9543	RETAINING WALL	SF	116.00

**City of Minot**

REGISTERED PROFESSIONAL ENGINEER

JESSE  
HOFEART

*Jesse HOFFERT*

PE-29748

DATE 11/19/2025

NORTH DAKOTA

QUANTITIES

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COMMON EXCAVATION-TYPE C

Total area of **new** 4" sidewalk (13,651.40 SF) \* 8/12 FT depth \* 1/27 CY/CF = 337 CY  
Total area of **new** 6" sidewalk (1,035.00 SF) \* 12/12 FT depth\* 1/27 CY/CF = 38 CY  
337 + 38 = 375 CY

TOPSOIL-IMPORTED

Total area of planned maximum topsoil area needed = 33,977 SF \* 0.5 ft thickness = 16,988 CF  
16,988 CF \* 1/27 CY/CF = 629 CY

COMMERCIAL GRADE HOT MIX ASPHALT

(Total area for estimated patching area (5,298 SF) + Estimated additional area for contingency (2000 SF)) \* Desired thickness of asphalt section (4/12 FT)  
\* (1/27) SY/SF \* 2 TON/CY = 180 TONS

AGGREGATE BASE COURSE CL 5

Total length of curb & gutter (813 LF) \* (1/3 YD/LF) \* base width (30/36 YD) \* base thickness (7/36 YD) = 43.91 CY  
Total area for 4" sidewalk (1,600 SY) \* base thickness (4/36 YD) = 177.78 CY  
Total area for 6" sidewalk (589 SY) \* base thickness (6/36 YD) = 98.17 CY  
Total area for Valley gutter (64 SY) \* base thickness (8/36 YD) = 14.22 CY  
Total area for driveway concrete (1,454 SY) \* base thickness (6/36 YD) = 242.33 CY  
Total length of Type 1 curb (176 LF) \* (1/3 YD/LF) \* estimated cross section area of base (3/9 YD) = 19.56 CY  
Total length of Retaining Wall (74.4 LF) \* (1/3 YD/LF) \* estimated cross section area of base (5/9 YD) = 13.78 CY  
Sum of all cubic yards (609.75 CY) \* Class 5 unit weight (1.875 ton/CY) = 1,143 TONS

ADJUST GATE VALVE BOX & REMOVE & REPLACE GATE VALVE BOX

Quantities for these items are a contingency amount.

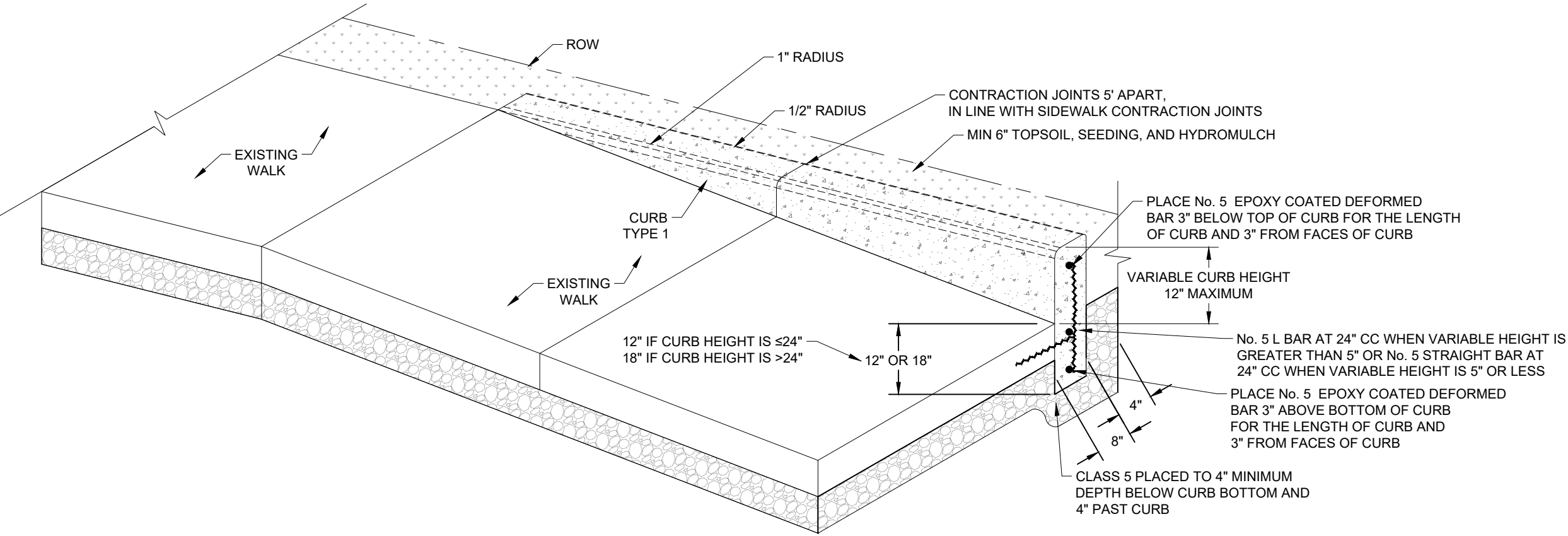
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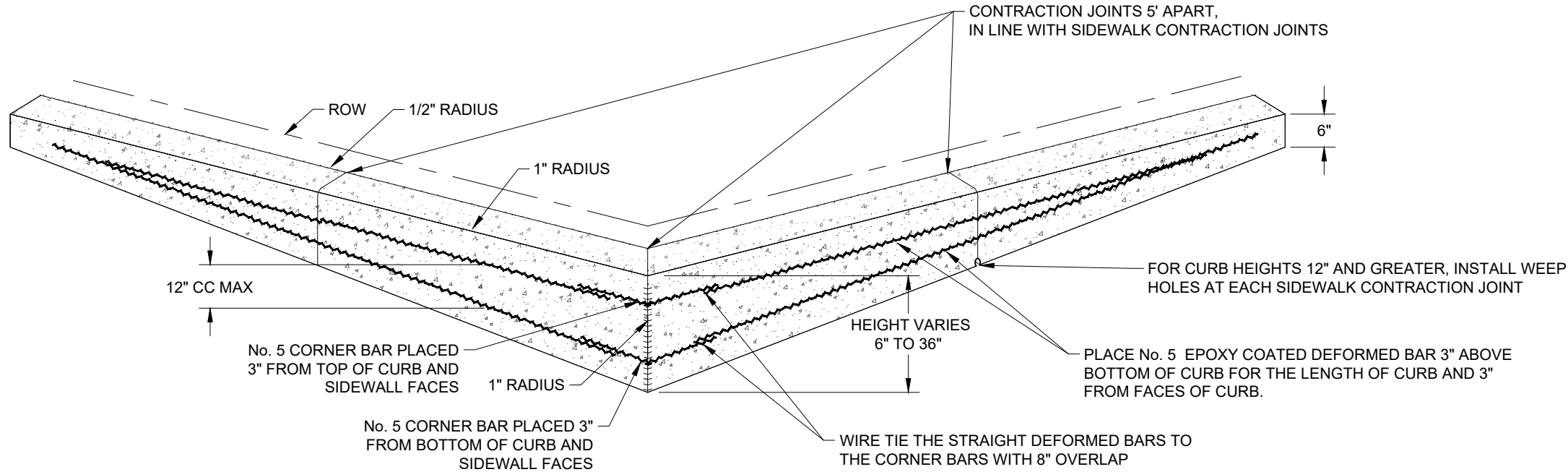
BASIS OF ESTIMATE

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**CURB TYPE 1 ADJACENT TO LANDSCAPE**  
(ISOMETRIC VIEW)



**CURB TYPE 1 & RETAINING WALL INTERSECTION**  
(ISOMETRIC VIEW)

**City of Minot**



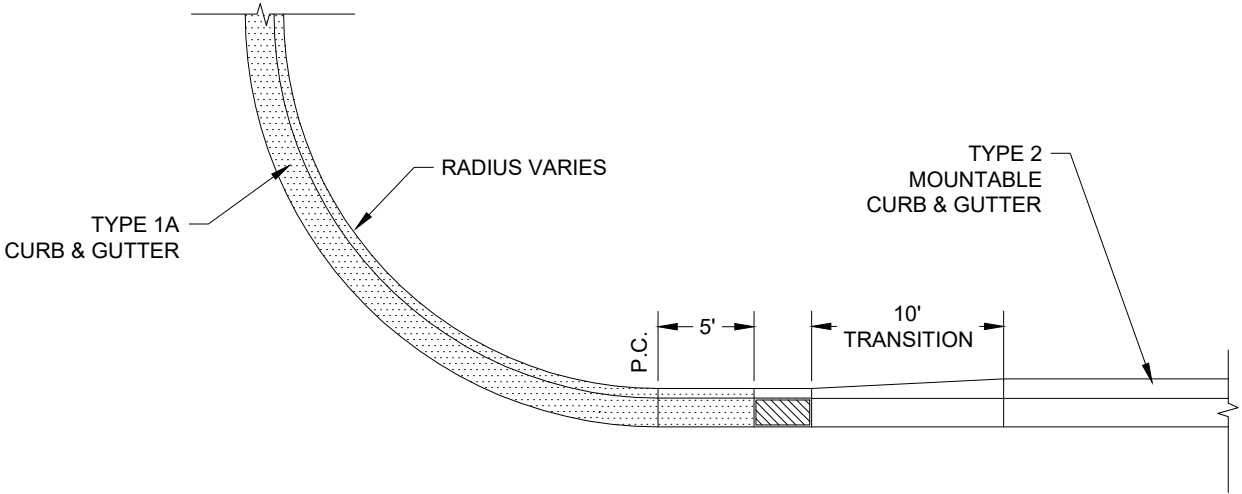
**CURB TYPE 1 & RETAINING WALL  
DETAILS**



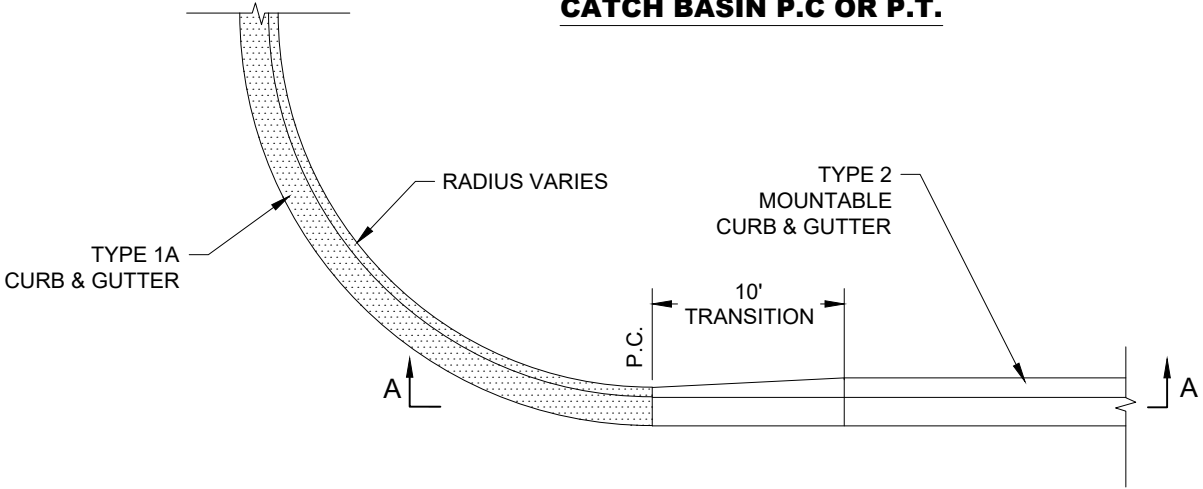


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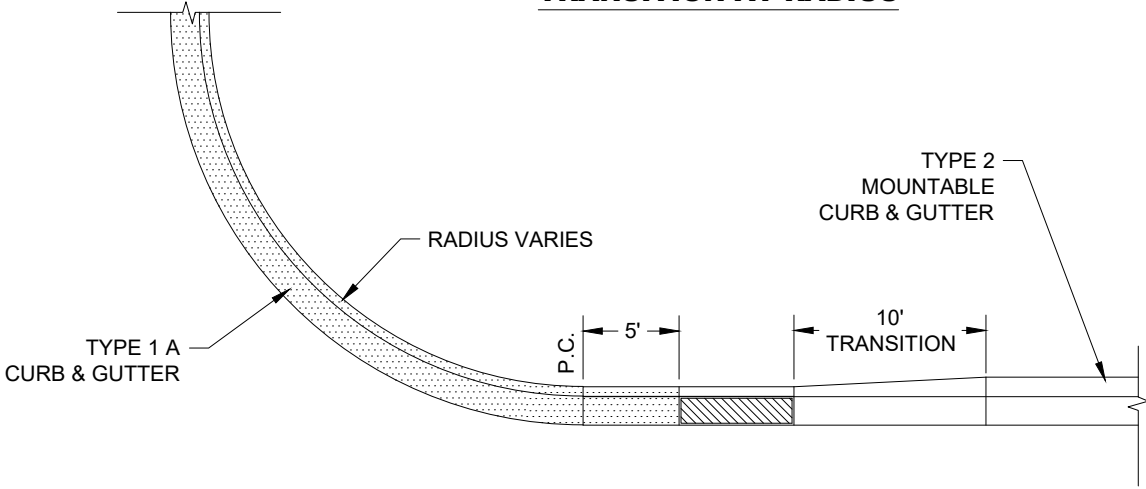
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	20	4



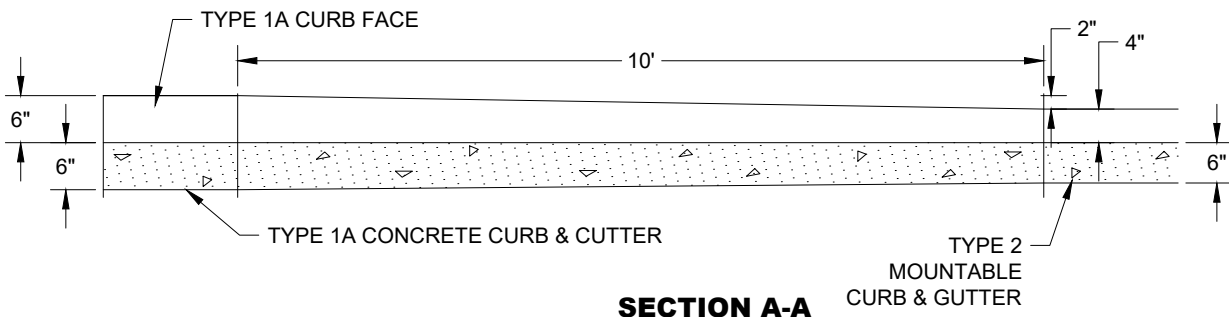
**CATCH BASIN P.C OR P.T.**



**TRANSITION AT RADIUS**



**DOUBLE CATCH BASIN**



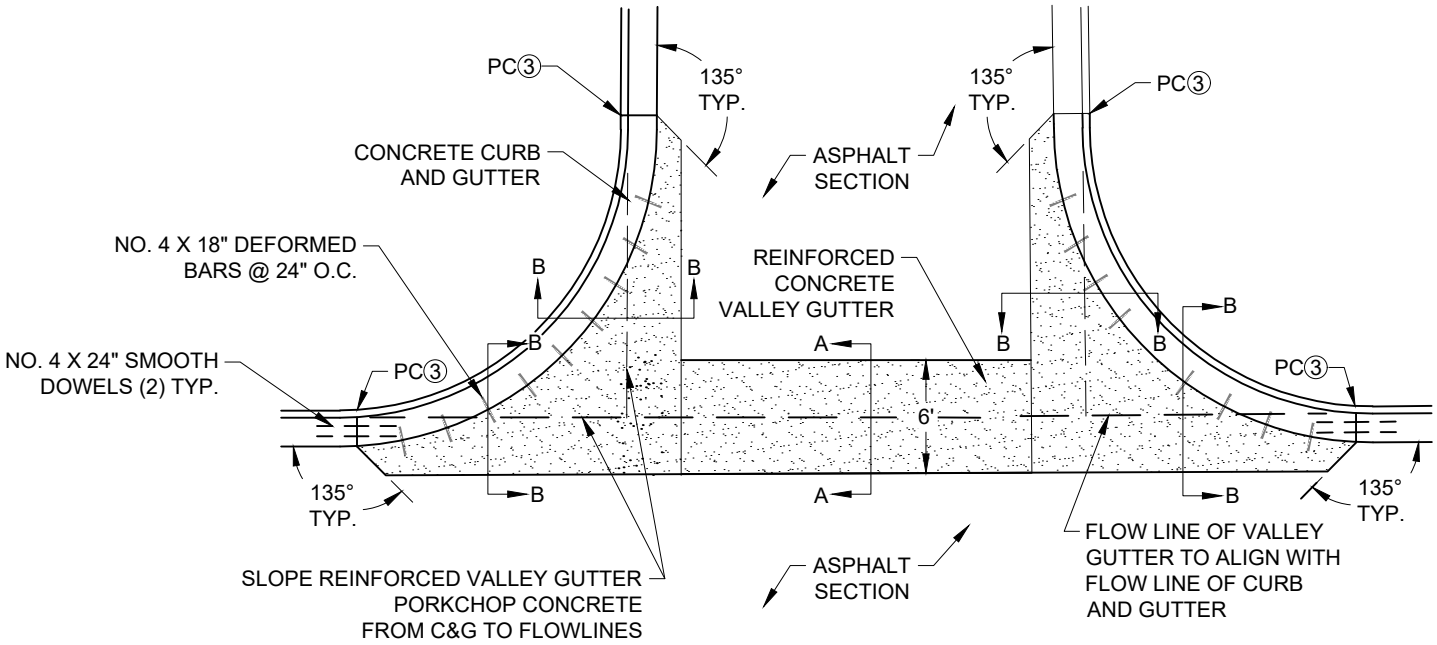
**City of Minot**



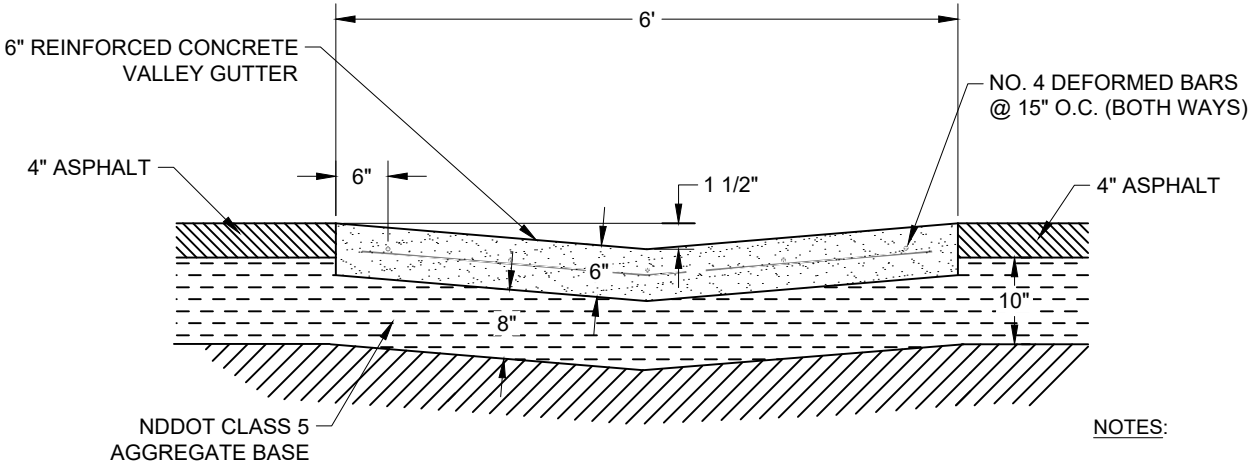
**MOUNTABLE CURB & GUTTER  
TRANSITION DETAILS**

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ND	TAU-4-989(137)	24408	20	5

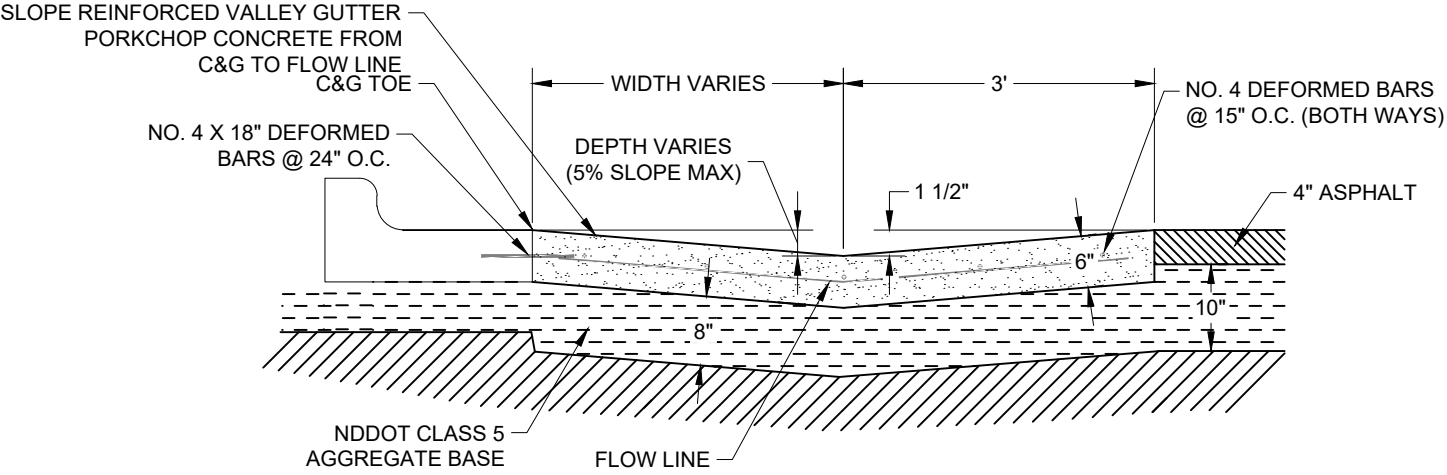


**VALLEY GUTTER TYPE A  
ASPHALT STREET**

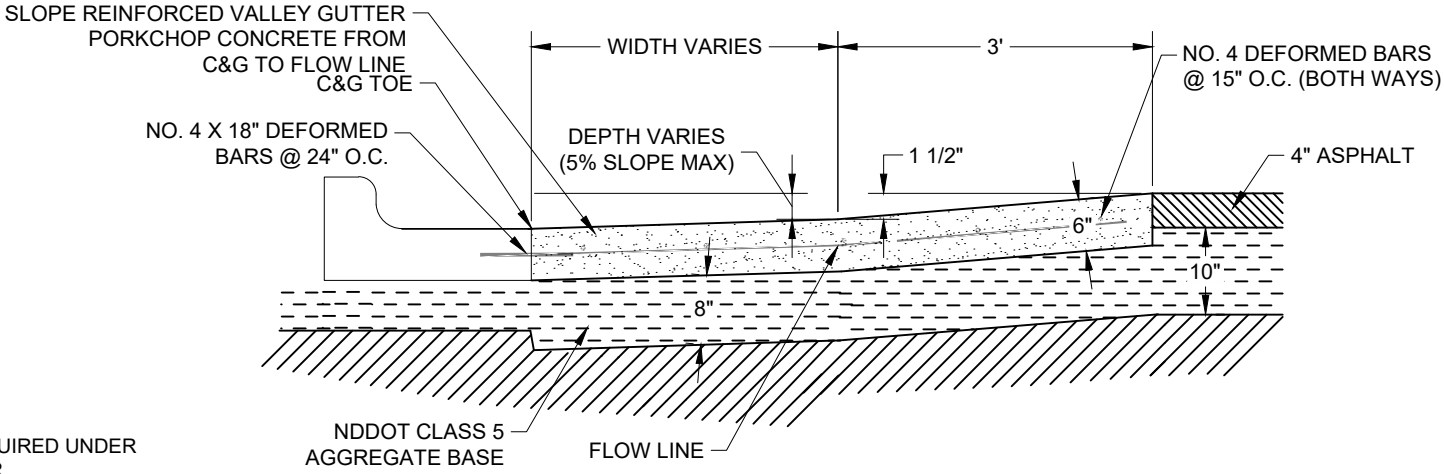


**VALLEY GUTTER TYPE A  
SECTION A-A**

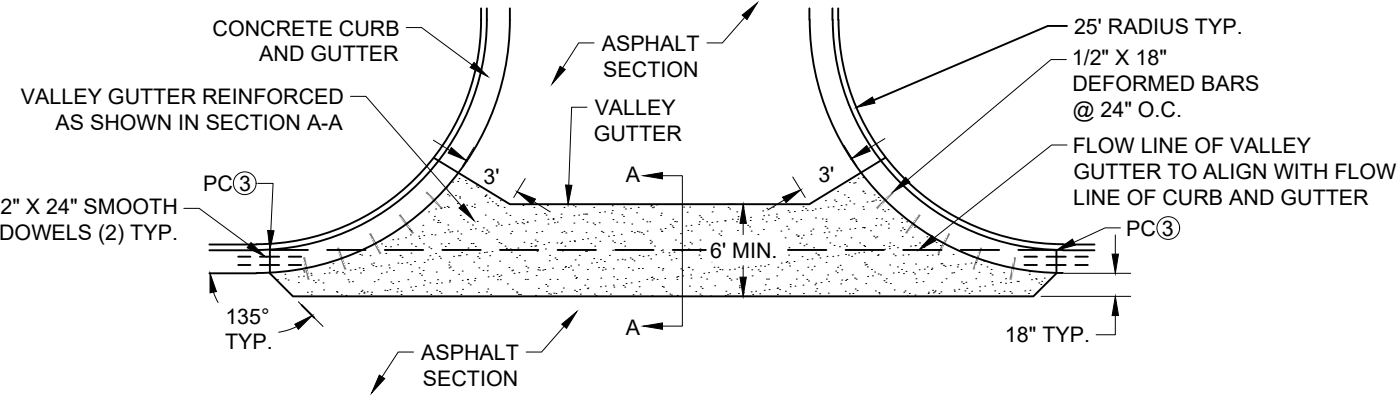
- NOTES:
1. AGGREGATE BASE REQUIRED UNDER ENTIRE VALLEY GUTTER
  2. REFER TO PLANS FOR LENGTH OF VALLEY GUTTER.
  3. CONSTRUCT EXPANSION JOINTS AT PCs.
  4. SPACE CONTRACTION JOINTS AT APPROX. INTERVALS EQUAL TO WIDTH OF VG.



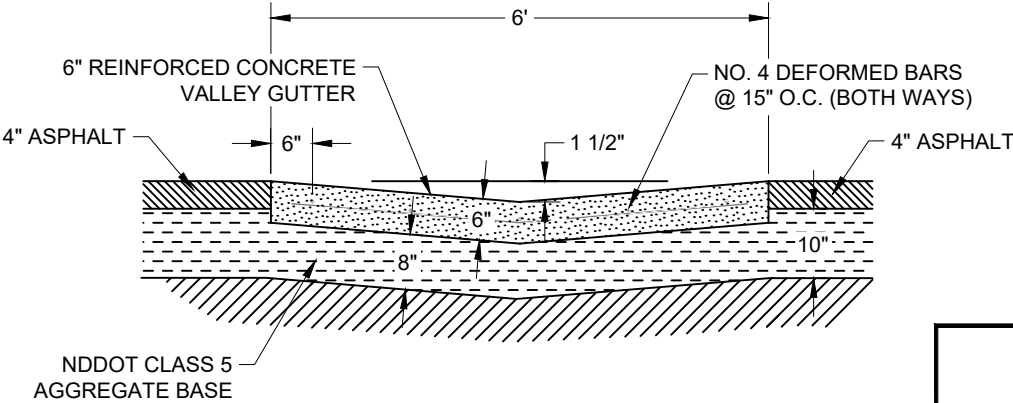
**VALLEY GUTTER TYPE A  
SECTION B-B (DECLINE FROM C&G TOE)**



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

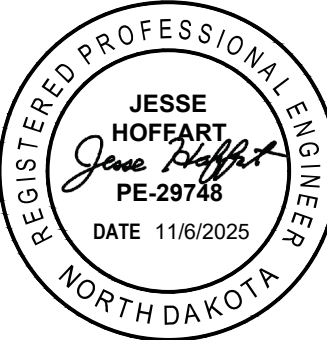


**VALLEY GUTTER TYPE B  
PLAN VIEW**



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

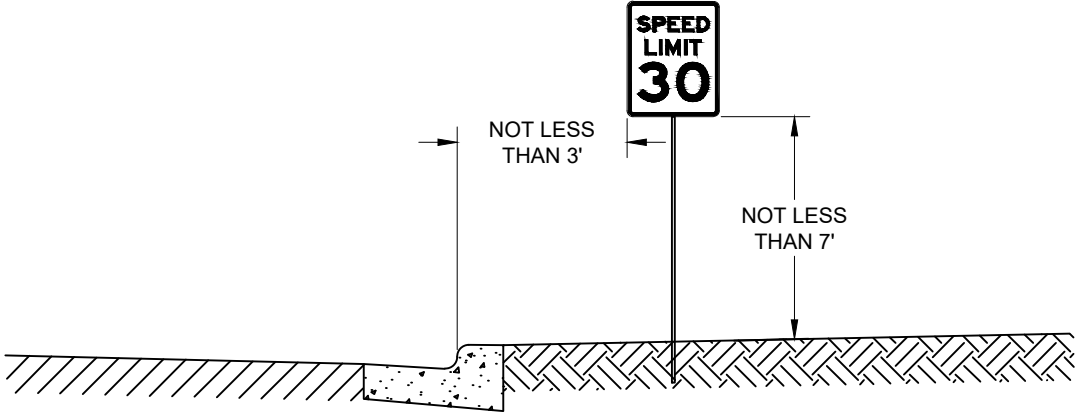
**City of Minot**



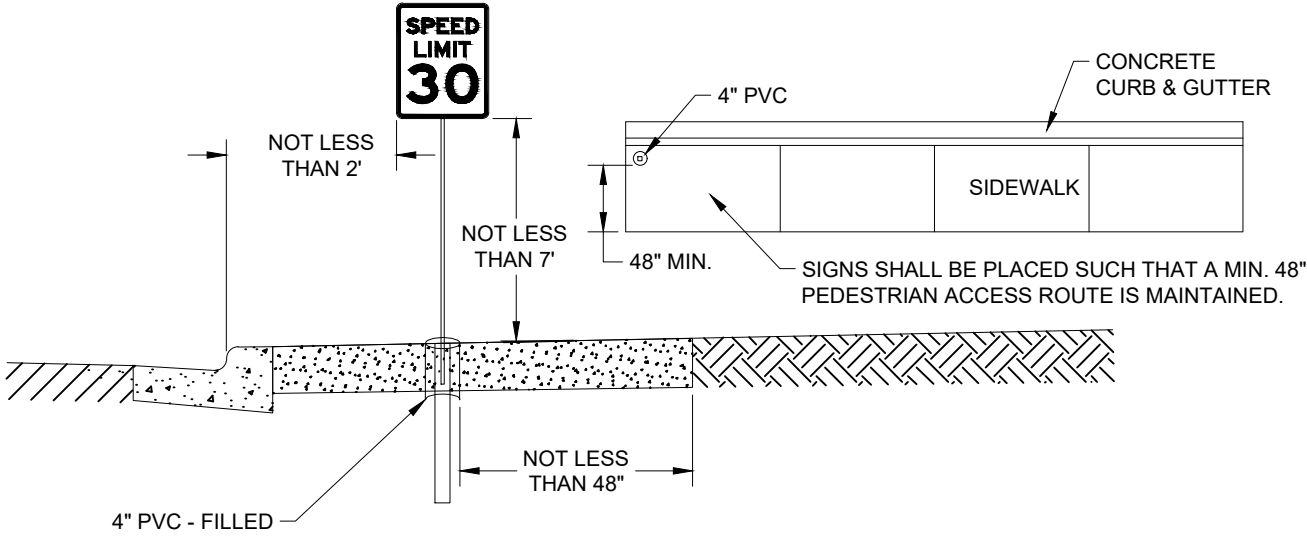
VALLEY GUTTER  
DETAILS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	20	6

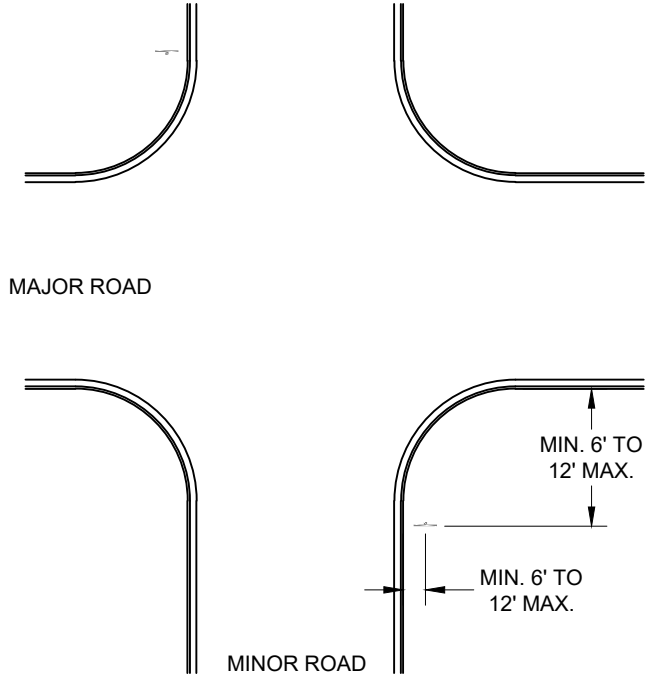


**SIGN IN GRASS BOULEVARD**

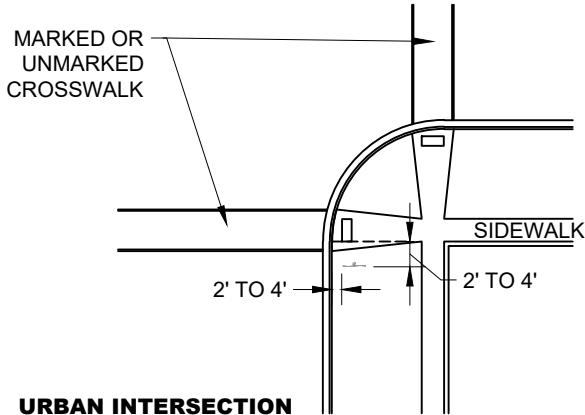


**SIGN IN CONCRETE**

**TYPICAL SIGN INSTALLATION  
LATERAL LOCATIONS**



**MINOR CROSSROAD**



**URBAN INTERSECTION**

**TYPICAL SIGN INSTALLATION  
AT INTERSECTIONS**

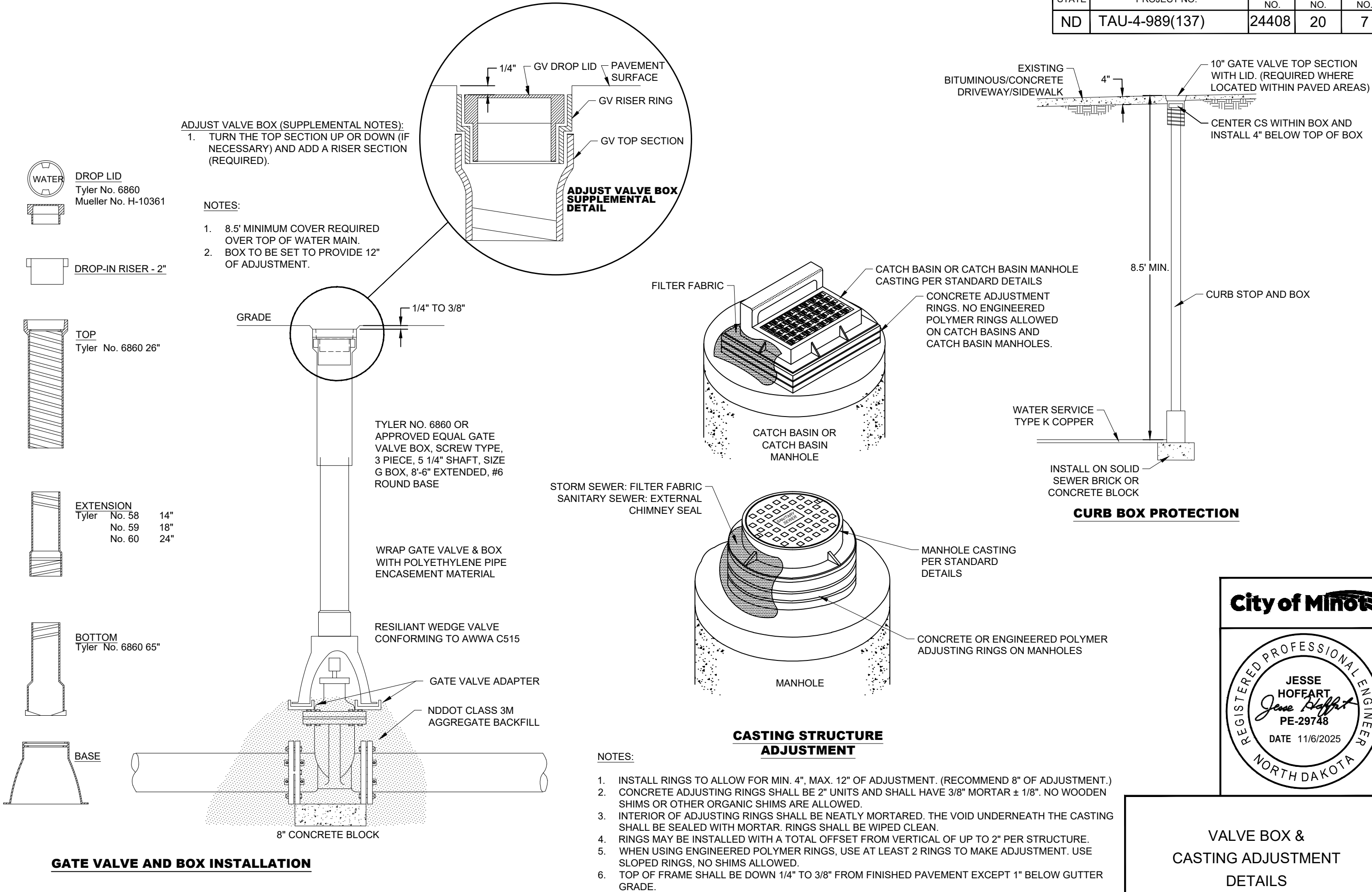
**City of Minot**



SIGN INSTALLATION  
DETAILS

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1/16/2025

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	20	7



City of Minot



VALVE BOX &  
CASTING ADJUSTMENT  
DETAILS

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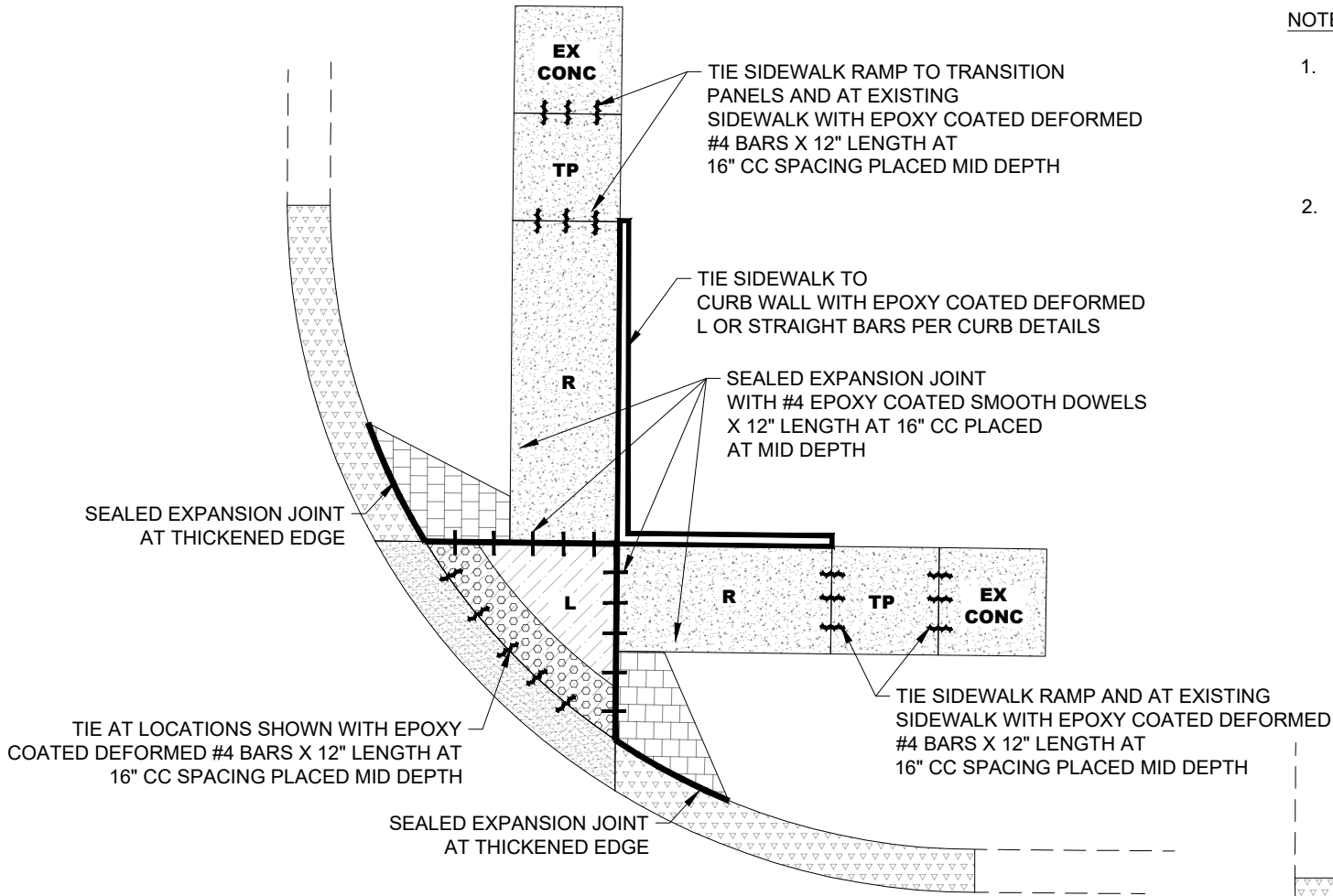
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	20	8

LEGEND

	CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED ON PLANS)
	CURB AND GUTTER - ADA KNOCK DOWN
	CURB (AS NOTED)
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
<b>R</b>	ADA RAMP WITH MAX SLOPE OF 8.3%
<b>TP</b>	TRANSITIONAL TIE-IN PANEL (SEE WARPED RAMP DETAILS)
<b>L</b>	ADA LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)

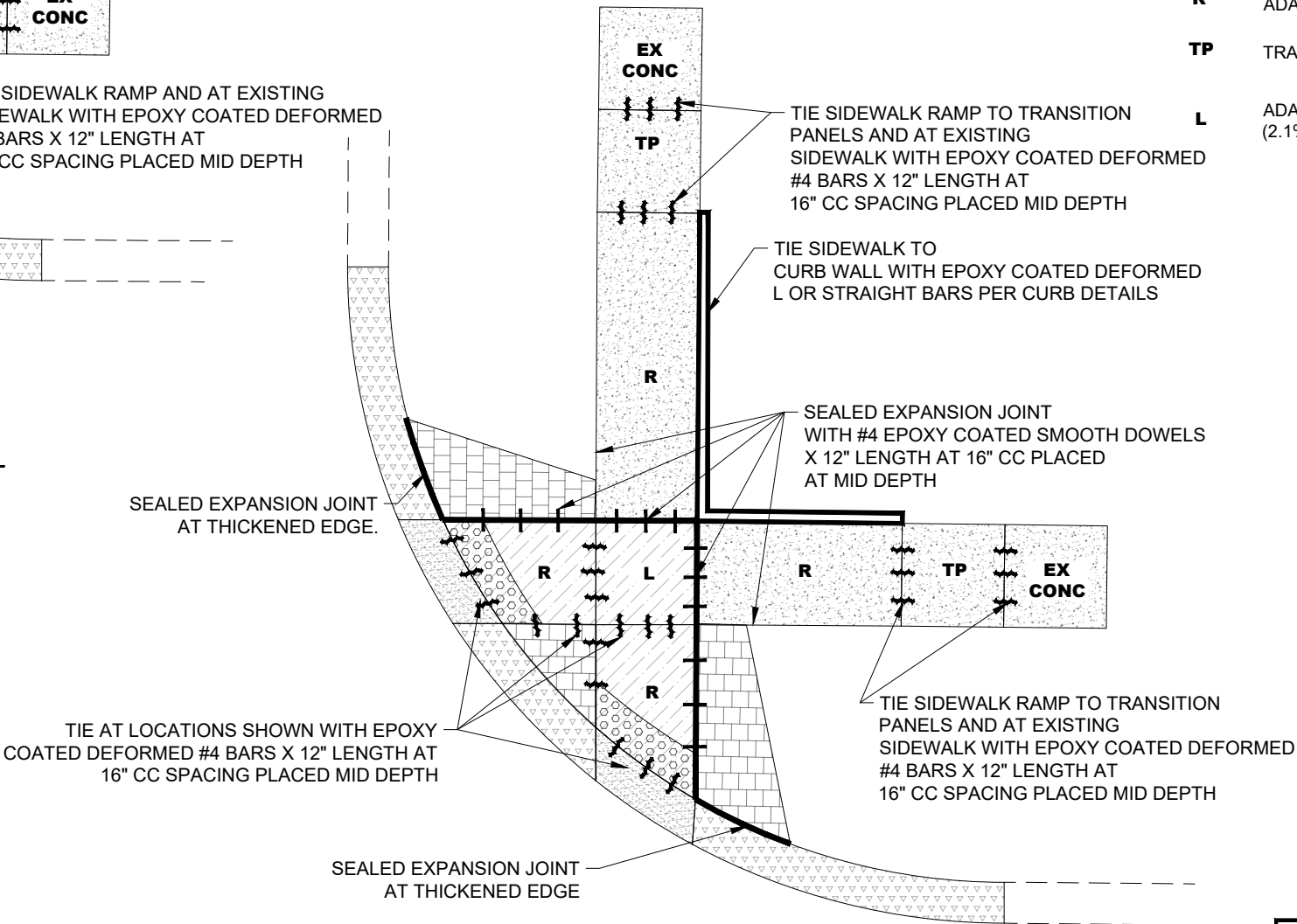
NOTES:

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. ALL EXPANSION JOINTS SHALL BE 1/2" WIDE AND SEALED.



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

1 NOT TO SCALE



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

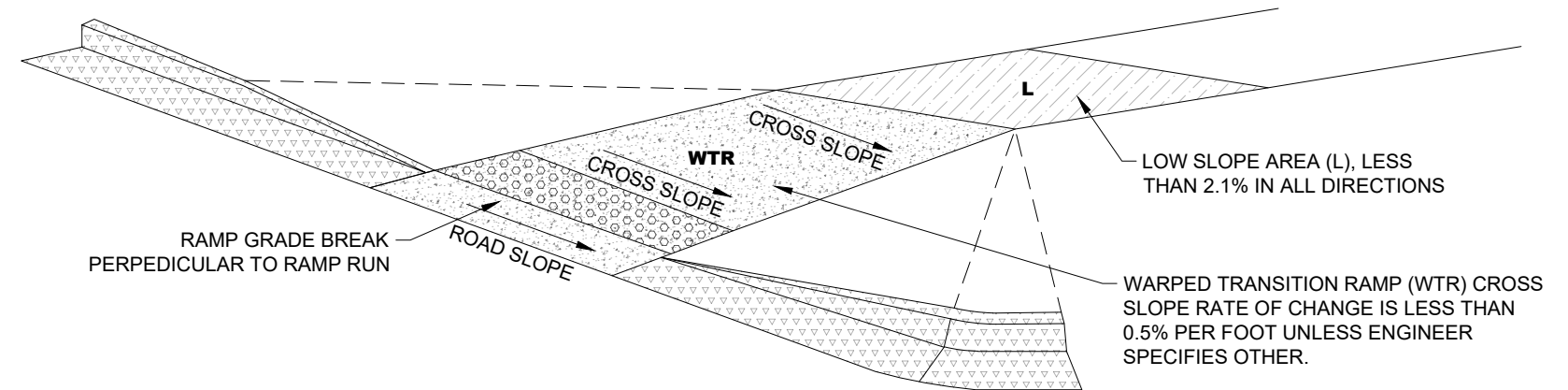
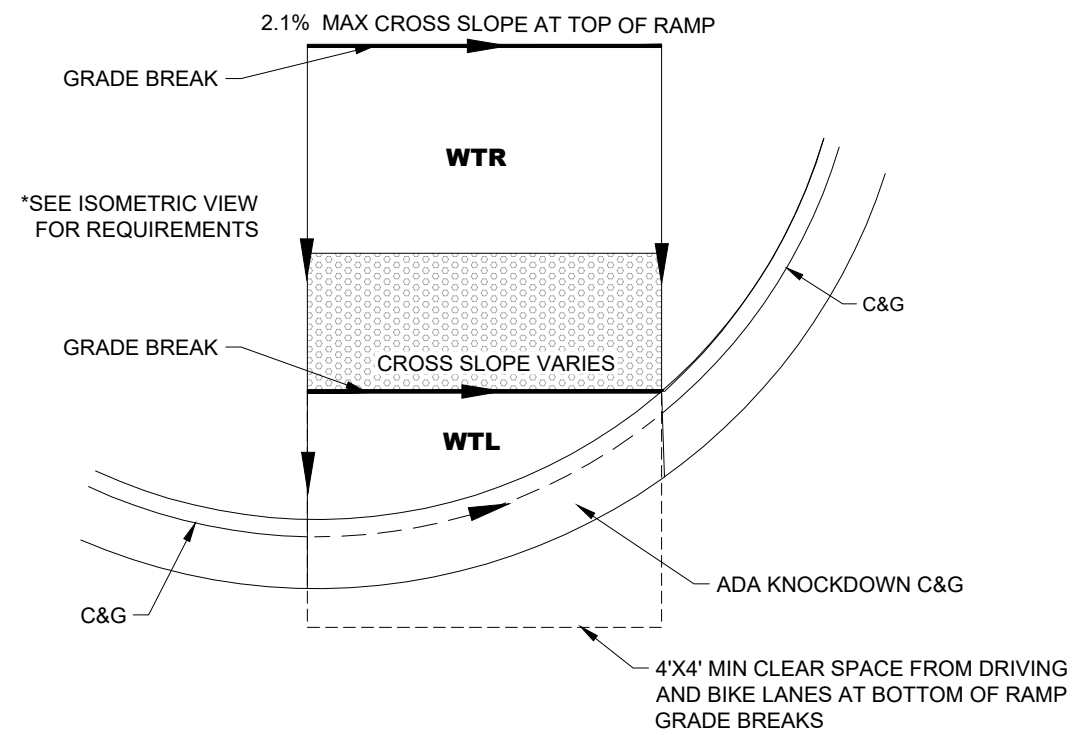
2 NOT TO SCALE

City of Minot

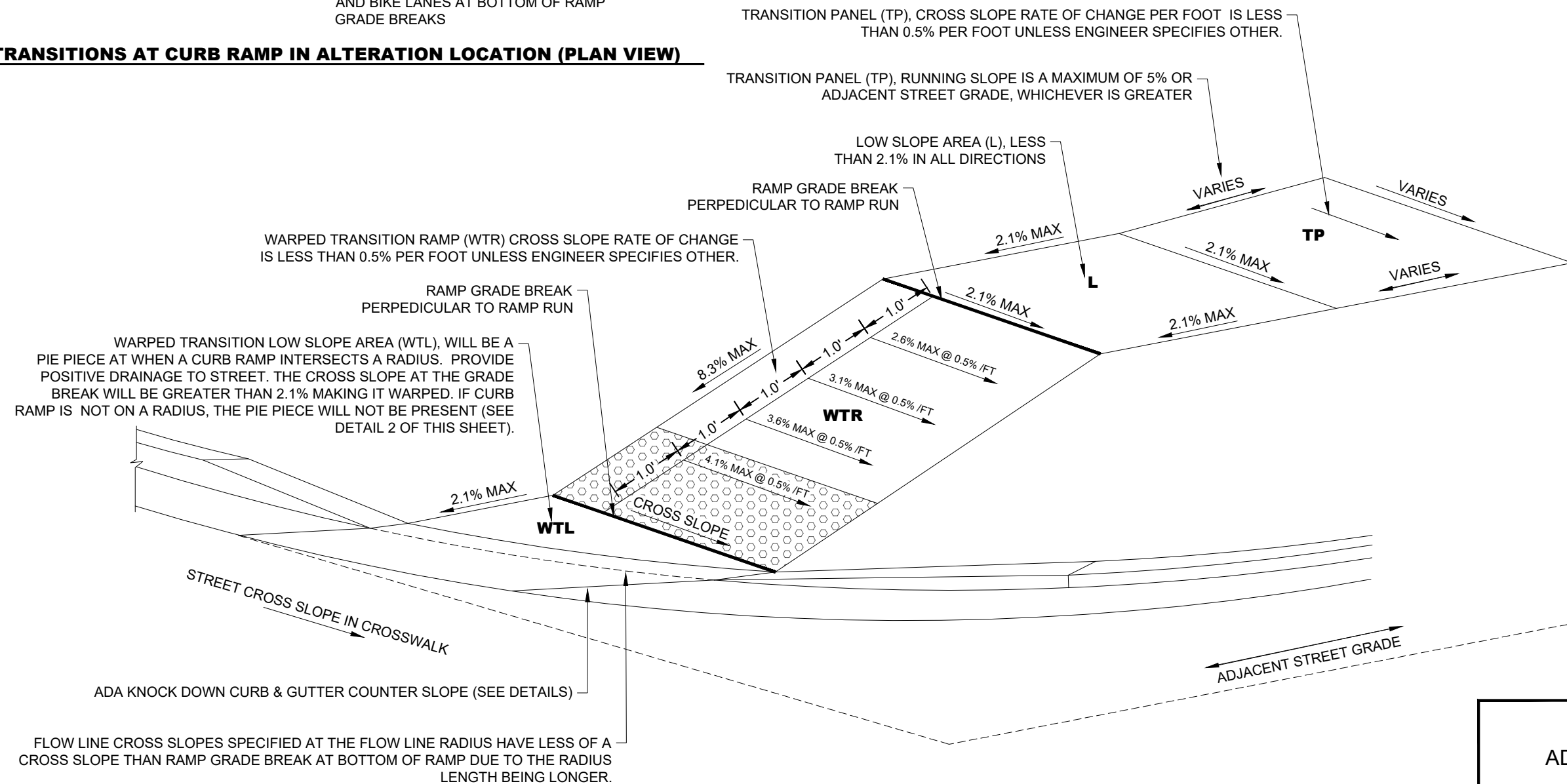


TYPICAL ADA CURB RAMP  
TIE BAR, DOWEL, & EXPANSION  
JOINT LOCATION DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	20	9



**1a** **WARPED TRANSITIONS AT CURB RAMP IN ALTERATION LOCATION (PLAN VIEW)**  
NOT TO SCALE



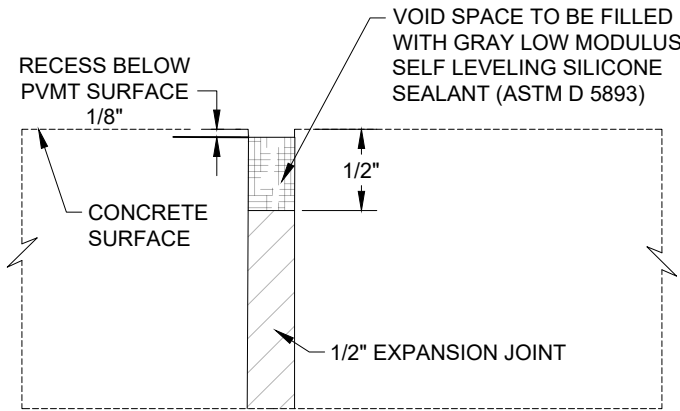
1b **WARPED TRANSITION AT CURB RAMP IN ALTERATION LOCATION (ISOMETRIC VIEW)**  
NOT TO SCALE



## ADA TRANSITION RAMP DETAILS

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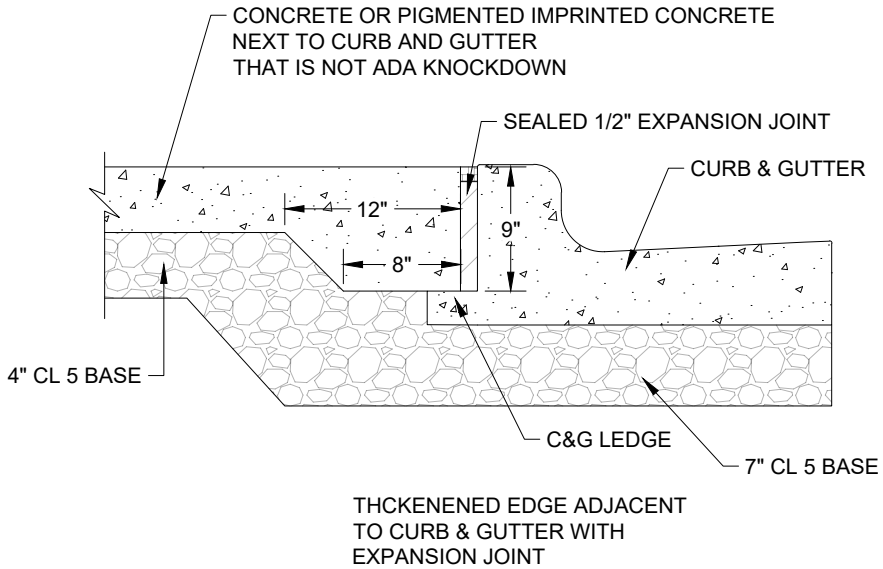
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	20	10



**SEALED EXPANSION JOINT**

**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.



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

**City of Minot**



EXPANSION JOINT  
DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	20	11

REMOVE CONCRETE FOR DRIVEWAY CONSTRUCTION WHERE REQUIRED. SAW CUT TO FULL DEPTH PRIOR TO REMOVAL.

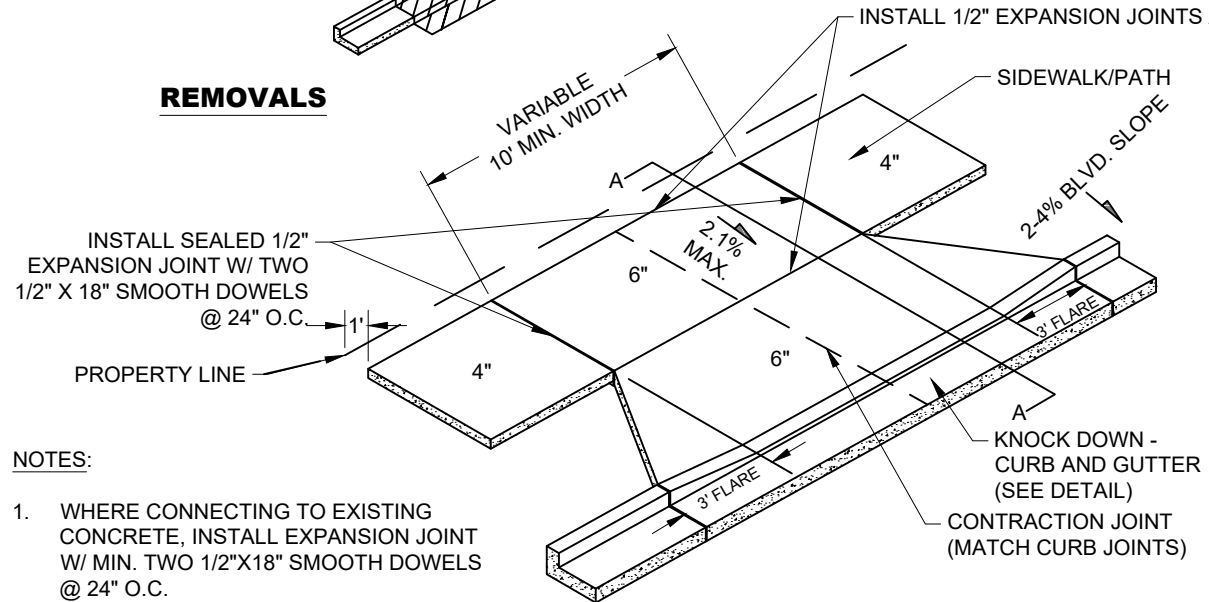
REMOVE CURB AND GUTTER. ENTIRE CURB AND GUTTER SECTION SHALL BE REMOVED PRIOR TO DRIVEWAY CONSTRUCTION.

2' MIN.

IF CURB CANNOT BE REMOVED CLEAN, SAWCUT PAVEMENT AND PROVIDE HMA PATCH.

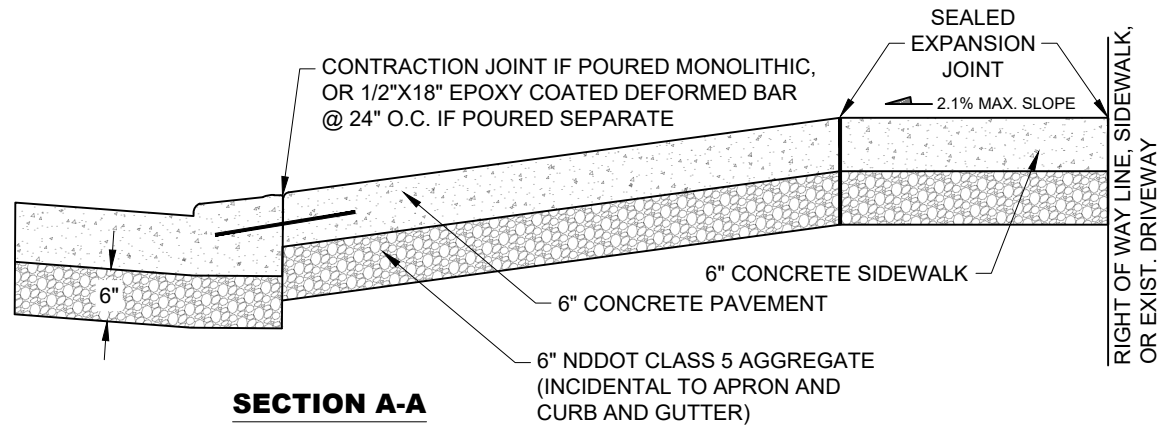
DET

## REMOVALS



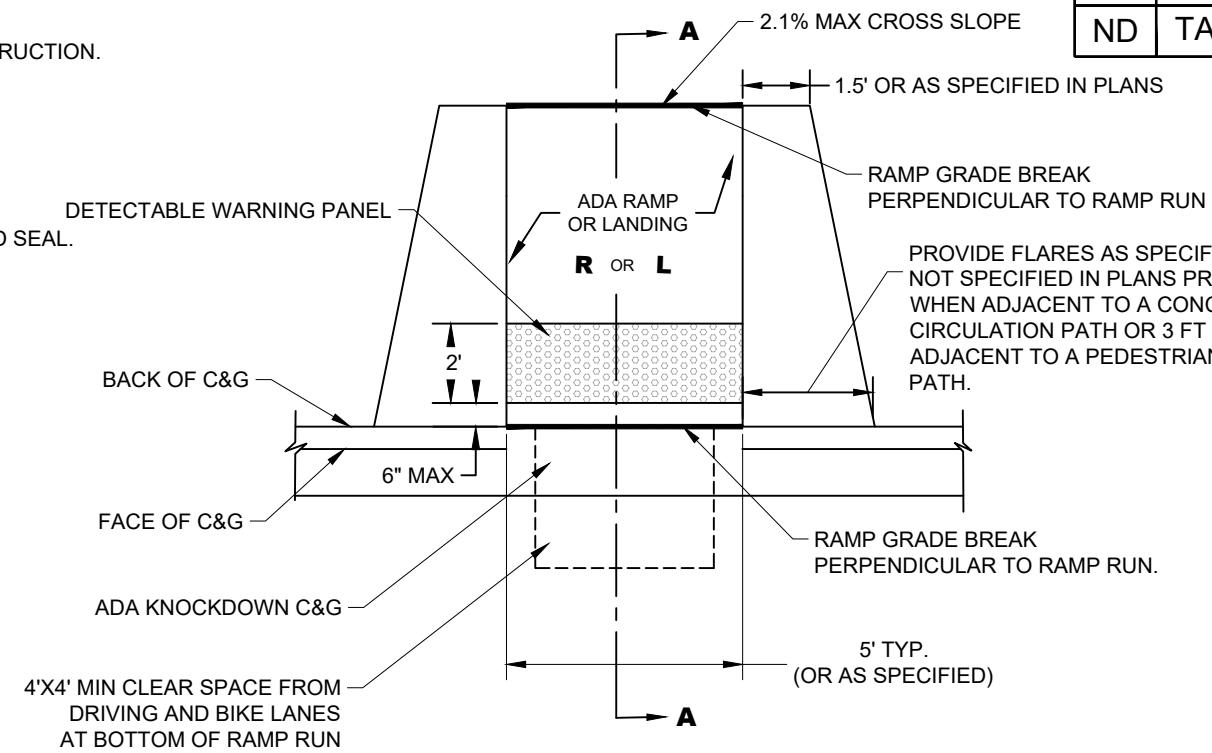
## ISOMETRIC

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

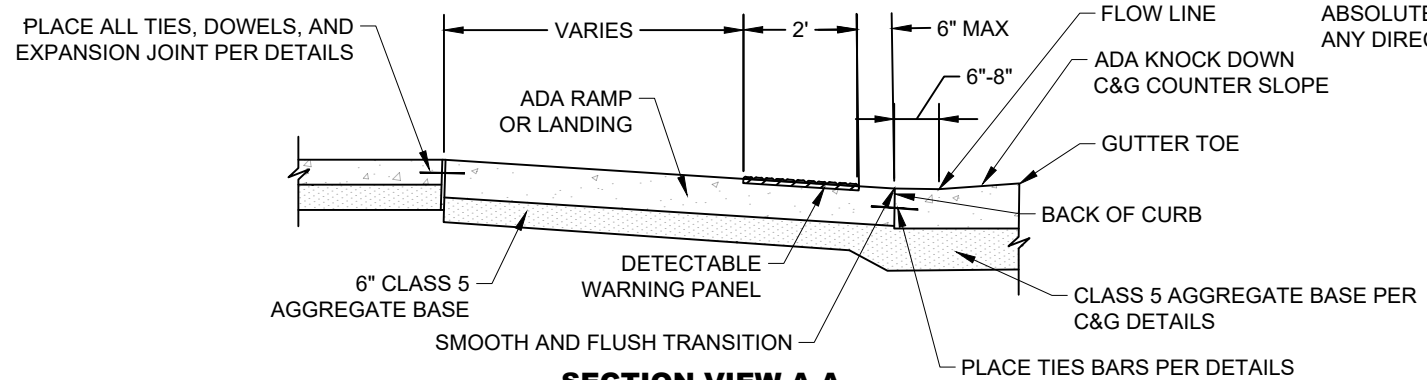


## SECTION A-A

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

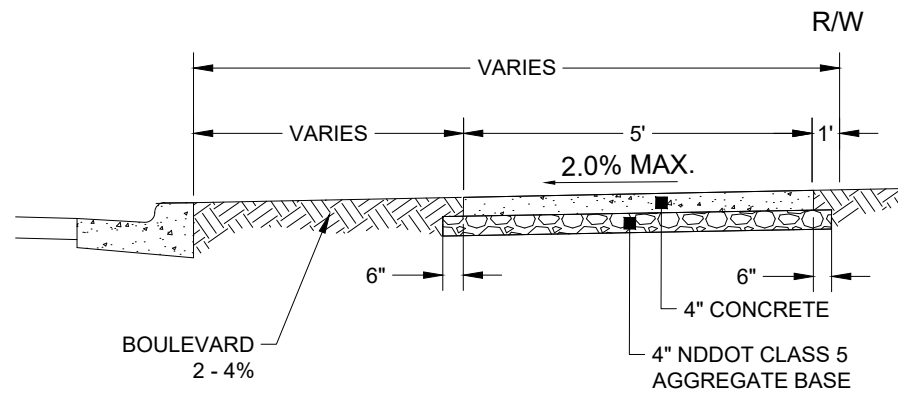


## PLAN VIEW



### SECTION VIEW A-A

## ADA CURB RAMP



## TYPICAL CONCRETE SIDEWALK

- NOTES:
1. LIGHT BROOM FINISH PERPENDICULAR TO CURB.
  2. TOOLED OR SAWED JOINTS TO MIN. DEPTH OF 3/4". NO TOOLED JOINTS ALLOWED ON 8' AND 10' SIDEWALKS/PATHS.
  3. RECOMMENDED CROSS-SLOPE IS 1.5%. 2% IS THE MAXIMUM.
  4. 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'

## NOTES

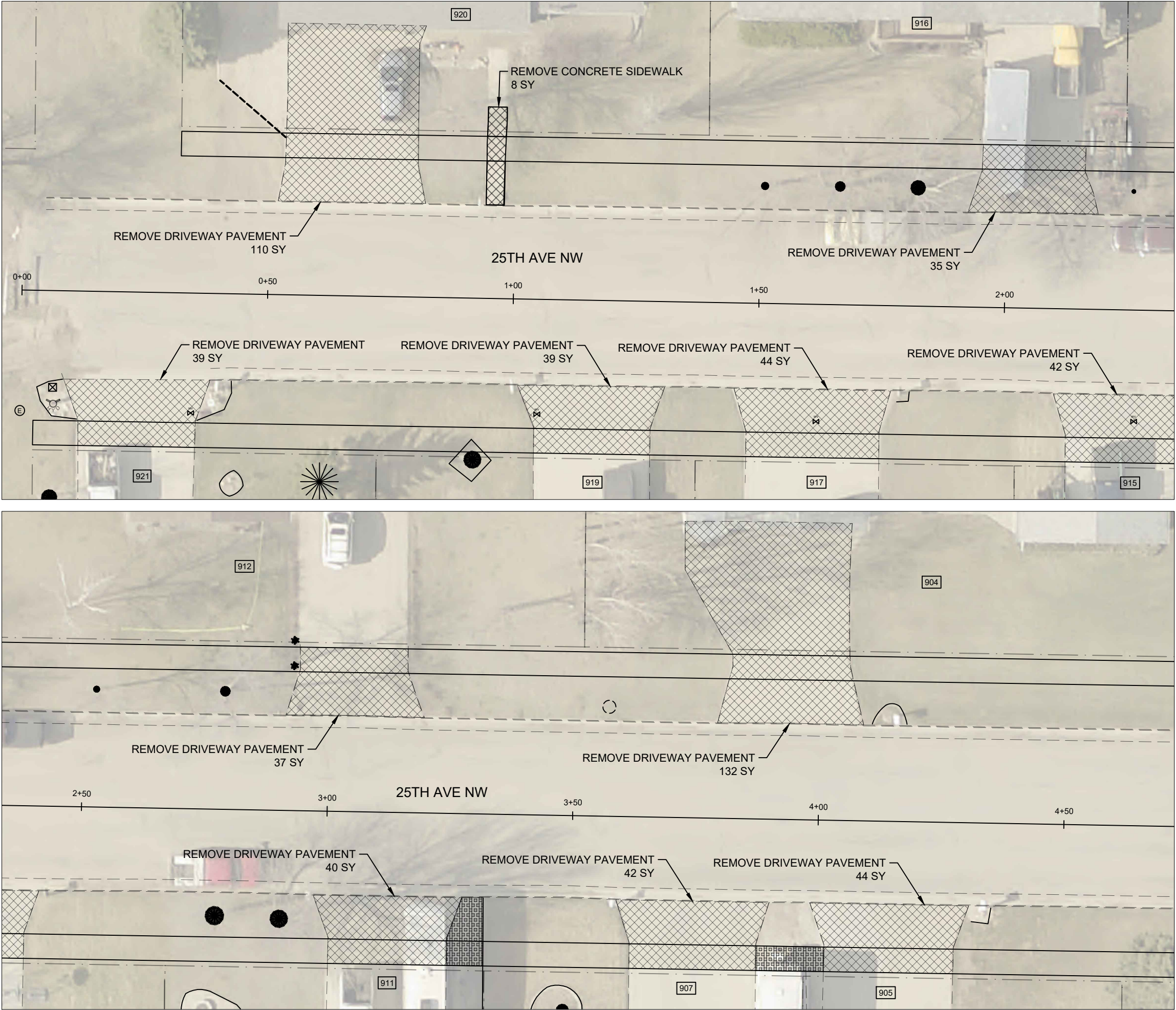
1. DETECTABLE WARNING PANELS SHALL BE INSTALLED TO FULL WIDTH IN THE LANDING OR RAMP ADJACENT TO THE ADA KNOCK DOWN CURB.
2. ADA RAMPS (R) SHALL HAVE A PREFERRED MAXIMUM RUNNING SLOPE OF 7.5% WITH AN ABSOLUTE MAXIMUM OF 8.33%, AND A PREFERRED MAXIMUM CROSS SLOPE OF 1.5% WITH AN ABSOLUTE MAXIMUM OF 2.1%.
3. ADA LANDINGS AND LOW SLOPE AREAS (L) SHALL HAVE A PREFERRED MAXIMUM SLOPE OF 1.4% IN ANY DIRECTION, WITH AN ABSOLUTE MAXIMUM SLOPE OF 2.1% IN ANY DIRECTION.

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## DRIVEWAY & ADA RAMP SECTIONS

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ND	TAU-4-989(137)	24408	40	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	612

**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
- EXISTING TREES/SHRUBS

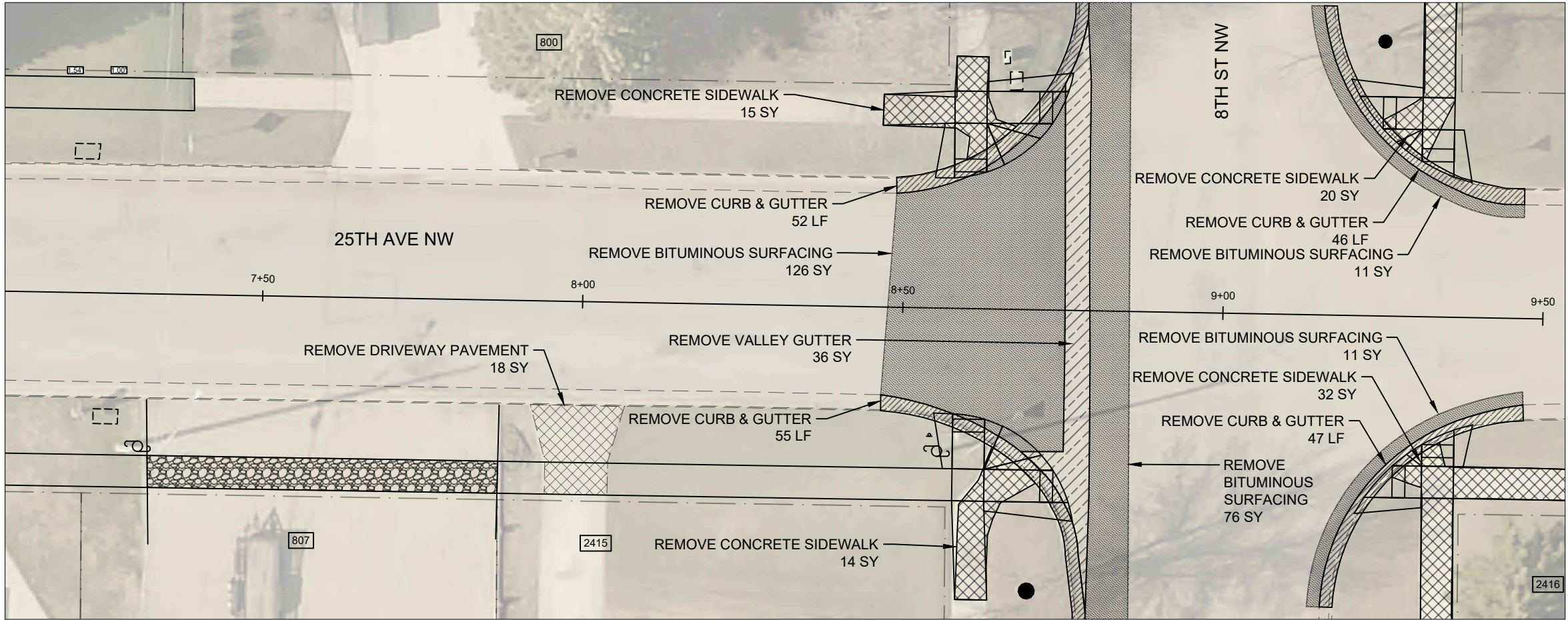
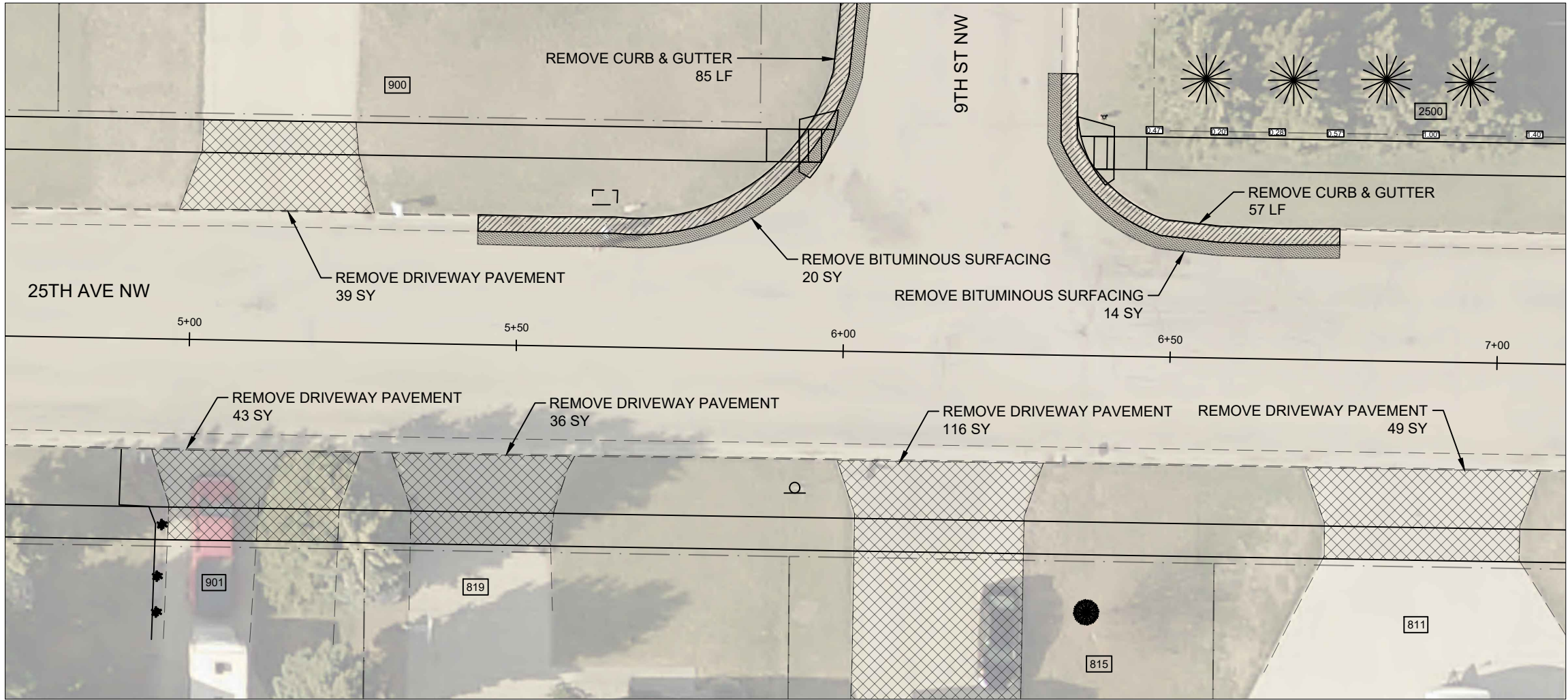
**City of Minot**

**JESSE HOFFEART**  
*Jesse Hoffeart*  
REGISTERED PROFESSIONAL ENGINEER  
PE-29748  
DATE 11/6/2025  
NORTH DAKOTA

10 0 10 20  
Scale Feet

REMOVALS  
25TH AVE NW  
STA. 0+00 TO STA. 4+72

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11/6/2025

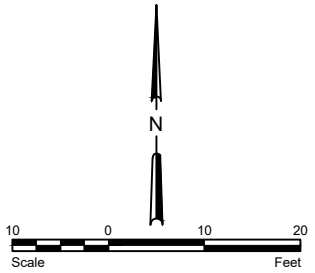


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	40	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	382
202	130	REMOVAL OF CURB AND GUTTER	LF	342
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	258

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
- EXISTING TREES/SHRUBS



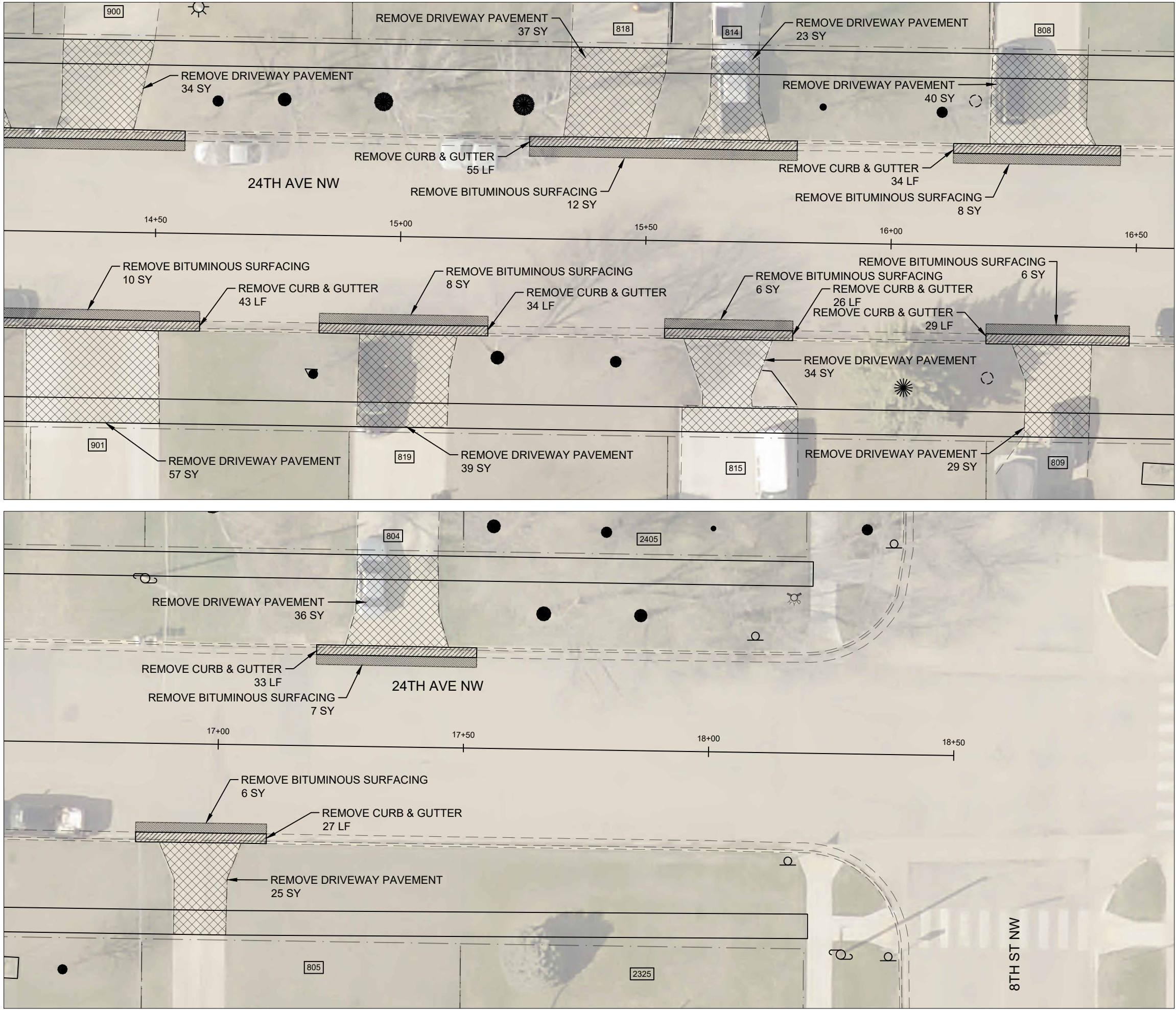
City of Minot



REMOVALS  
25TH AVE NW  
STA. 4+72 TO STA. 9+50



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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	40	4

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	354
202	130	REMOVAL OF CURB AND GUTTER	LF	281
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	63

LEGEND

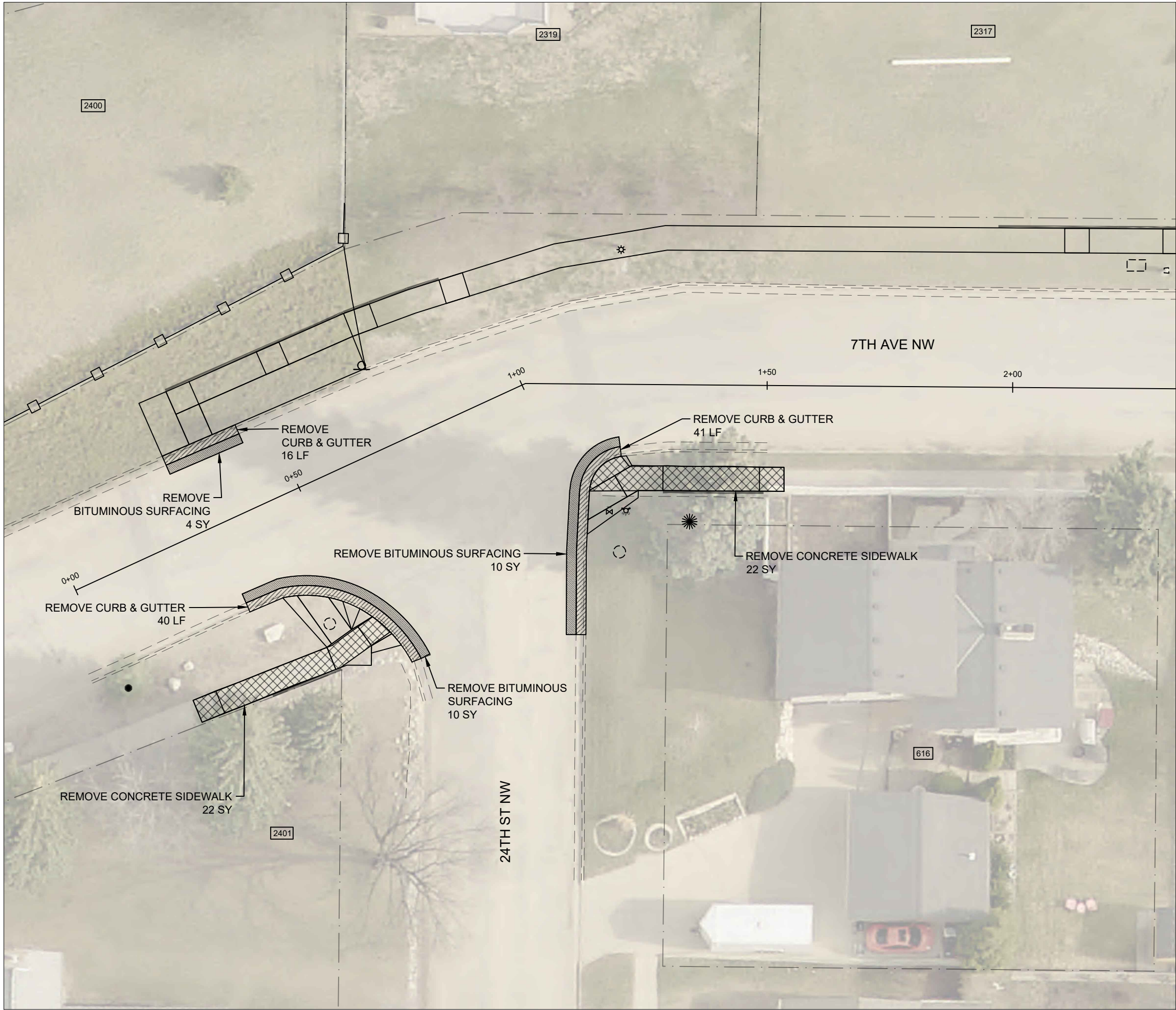
- REMOVE CURB & GUTTER
- REMOVE SIDEWALK/DRIVEWAY
- REMOVE ROCK/LANDSCAPING
- SALVAGE & REINSTALL ROCK
- REMOVE VALLEY GUTTER
- REMOVE BITUMINOUS PAVEMENT
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- EXISTING TREES/SHRUBS

City of Minot



REMOVALS  
24TH AVE NW  
STA. 14+20 TO STA. 18+50












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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	40	5

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	44
202	130	REMOVAL OF CURB AND GUTTER	LF	97
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	24

LEGEND

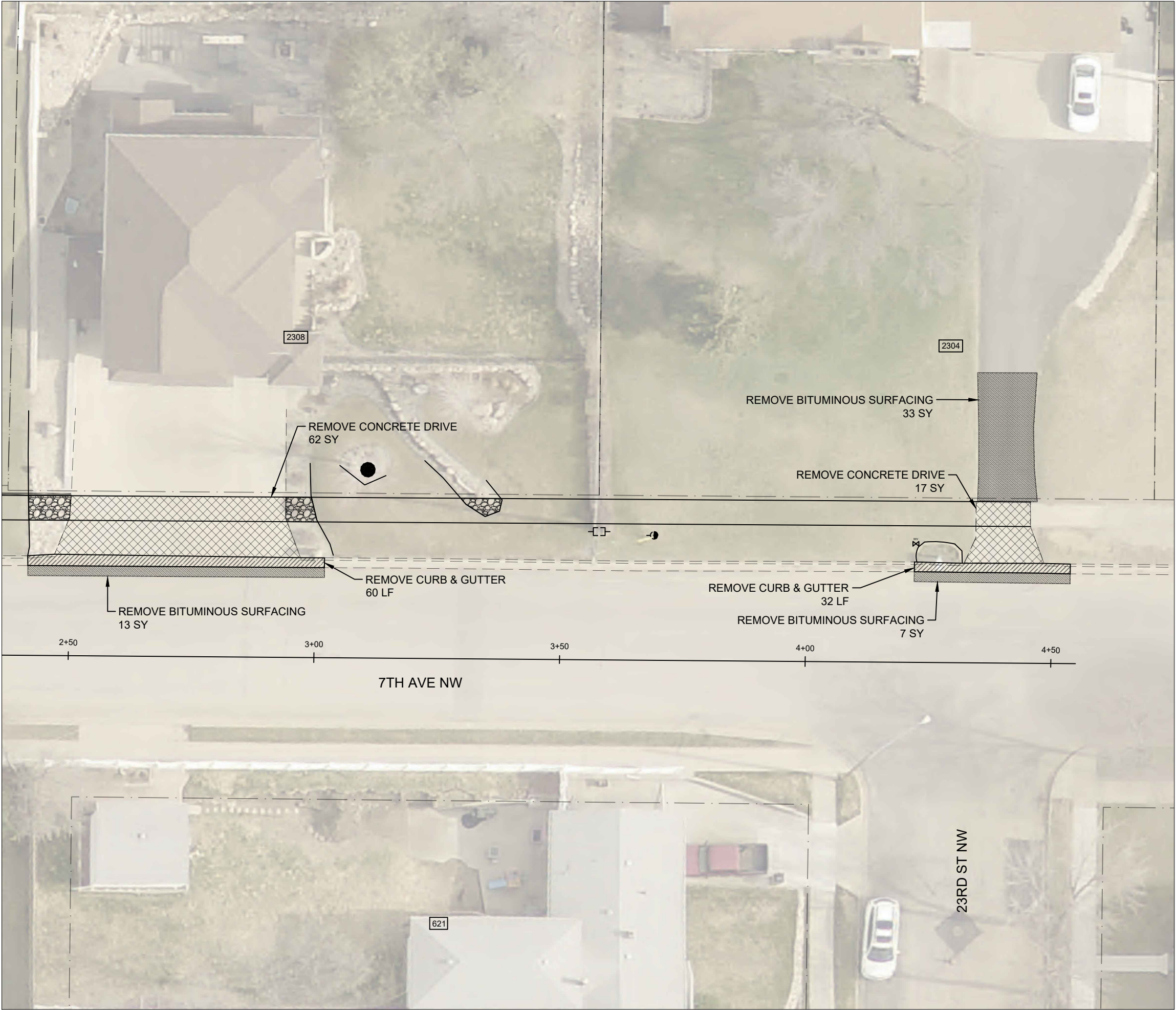
-  REMOVE CURB & GUTTER
-  REMOVE SIDEWALK/DRIVEWAY
-  REMOVE ROCK/LANDSCAPING
-  SALVAGE & REINSTALL ROCK
-  REMOVE VALLEY GUTTER
-  REMOVE BITUMINOUS PAVEMENT
-  PROPERTY LINE
-  EXISTING CURB AND GUTTER
-  EXISTING VALLEY GUTTER
-   EXISTING TREES/SHRUBS

City of Minot



REMOVALS  
7TH AVE NW  
STA. 0+00 TO STA. 2+30







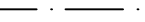



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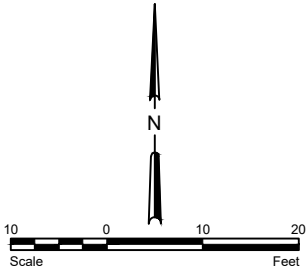


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	40	6

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	1.0
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	79
202	130	REMOVAL OF CURB AND GUTTER	LF	92
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	53

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
-  EXISTING TREES/SHRUBS

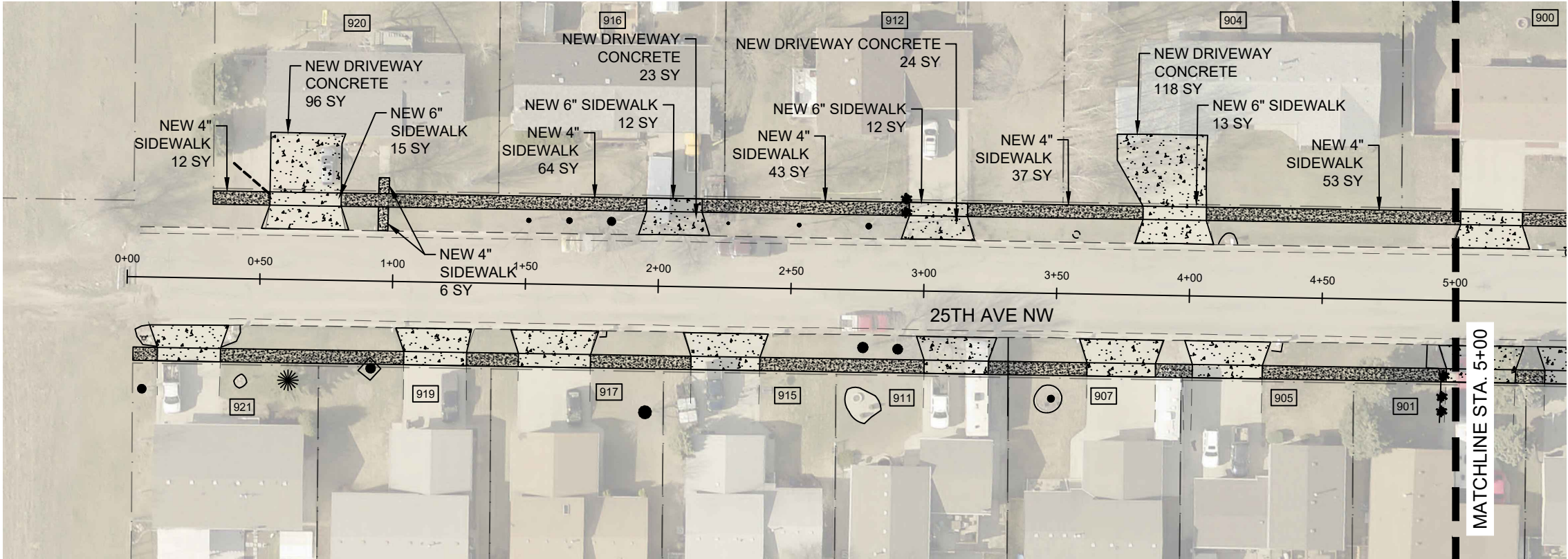


City of Minot



REMOVALS  
7TH AVE NW  
STA. 2+30 TO STA. 4+55

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	115	SIDEWALK CONCRETE 4"	SY	215
750	140	SIDEWALK CONCRETE 6"	SY	52
750	1000	DRIVEWAY CONCRETE	SY	261

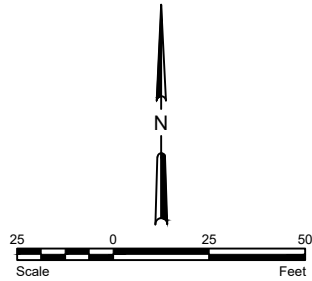
LEGEND

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

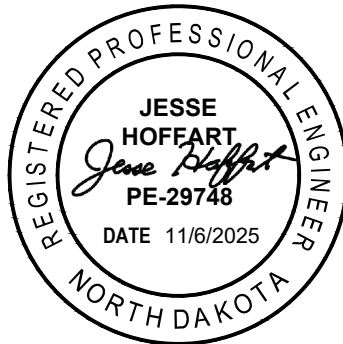


HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'

MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

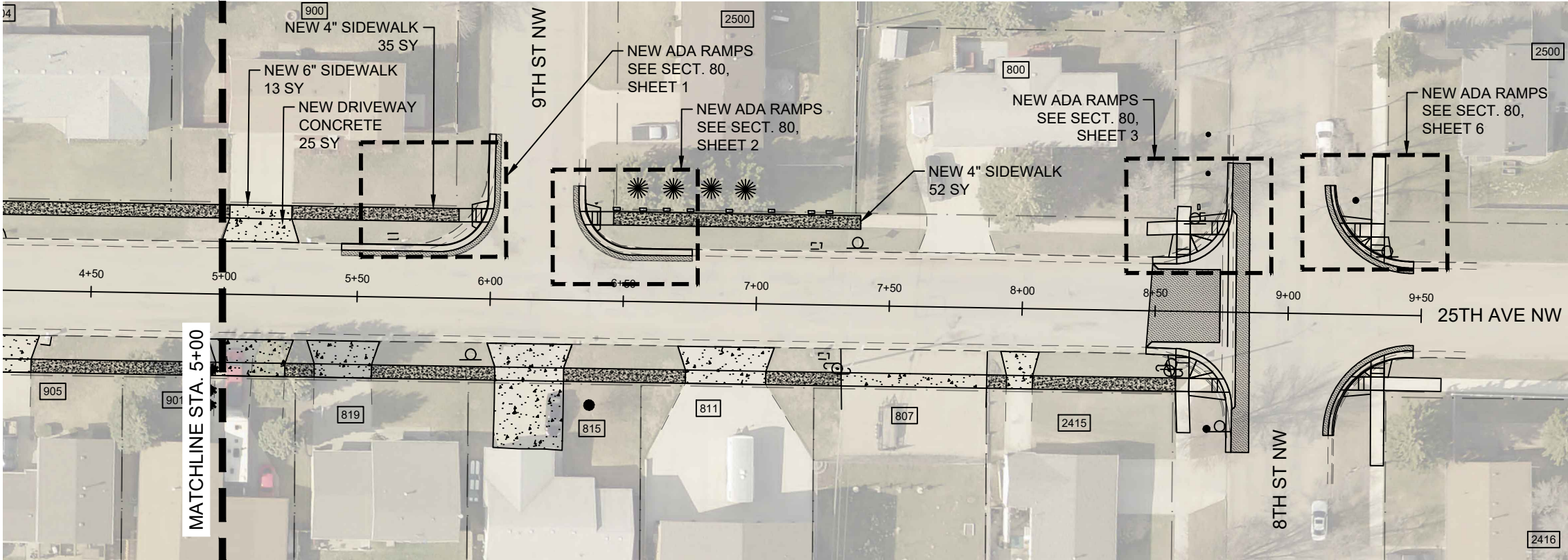


City of Minot



PLAN AND PROFILE  
25TH AVE NW - NORTH SIDE  
STA. 0+00 TO STA. 5+00

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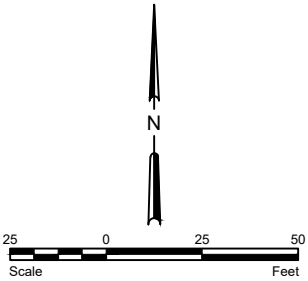


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	24
750	115	SIDEWALK CONCRETE 4"	SY	87
750	140	SIDEWALK CONCRETE 6"	SY	13
750	1000	DRIVEWAY CONCRETE	SY	25

LEGEND

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

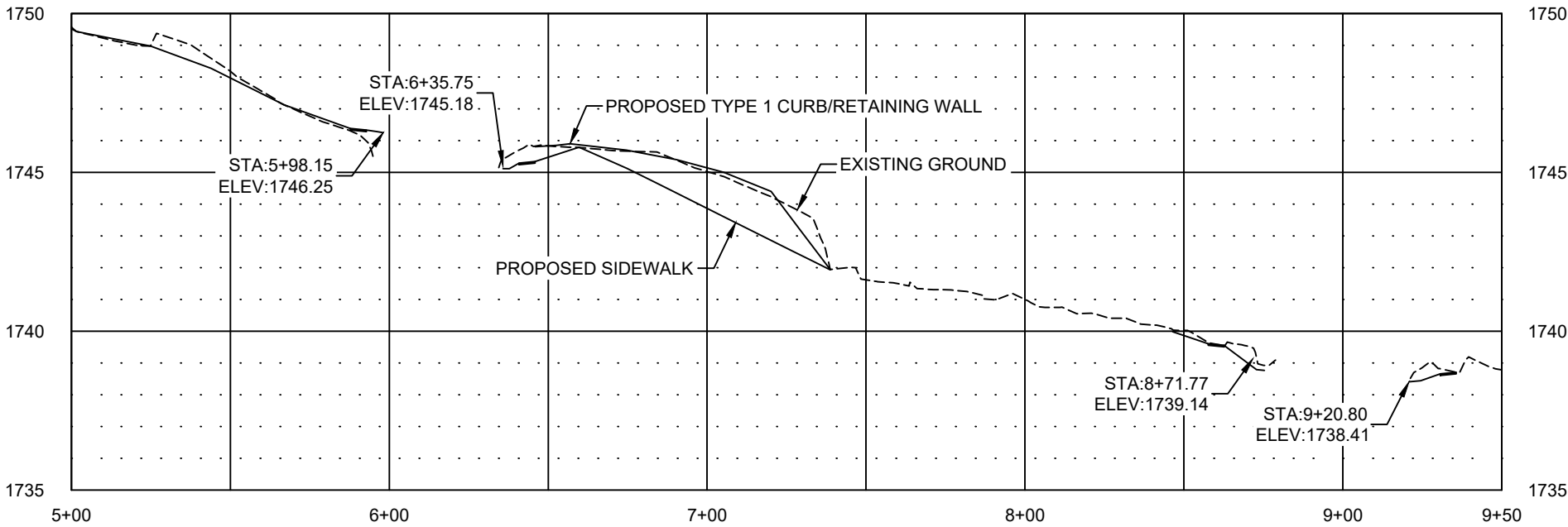


MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

City of Minot

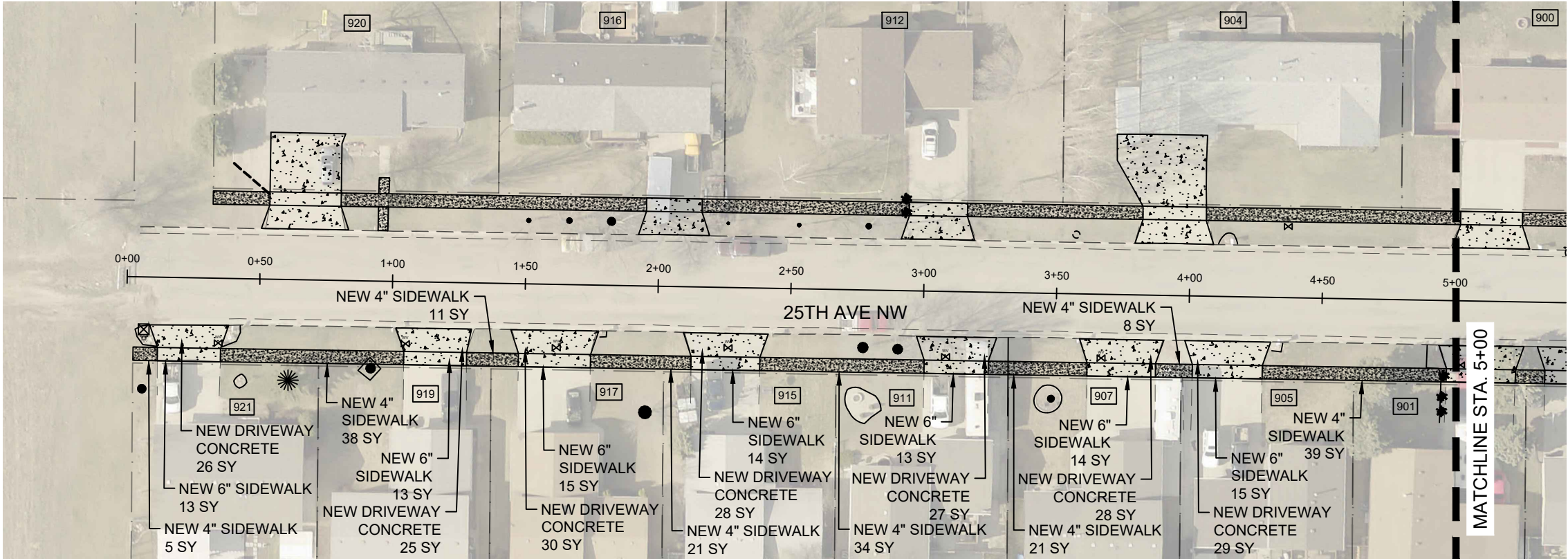


PLAN AND PROFILE  
25TH AVE NW - NORTH SIDE  
STA. 5+00 TO STA. 9+50



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

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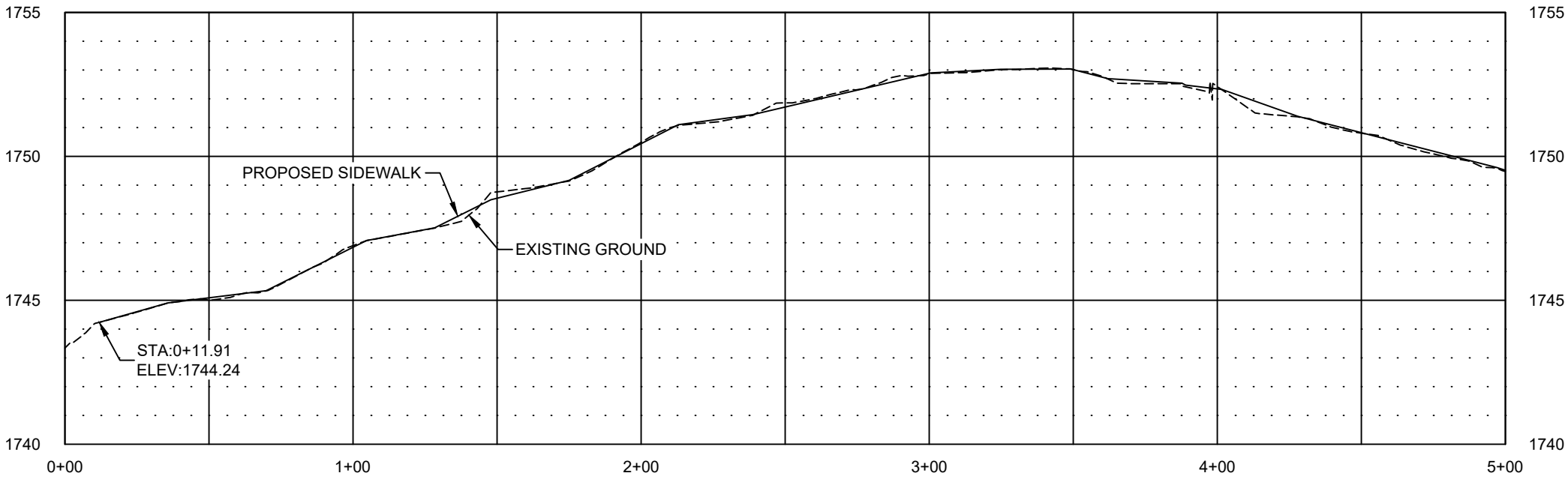


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	3

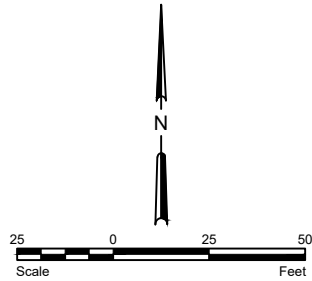
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	115	SIDEWALK CONCRETE 4"	SY	177
750	140	SIDEWALK CONCRETE 6"	SY	97
750	1000	DRIVEWAY CONCRETE	SY	193

LEGEND

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

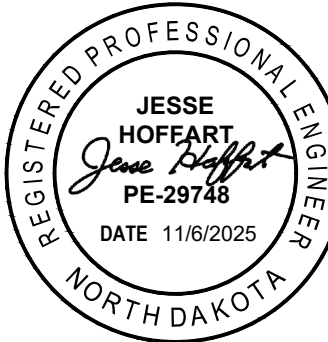


HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'



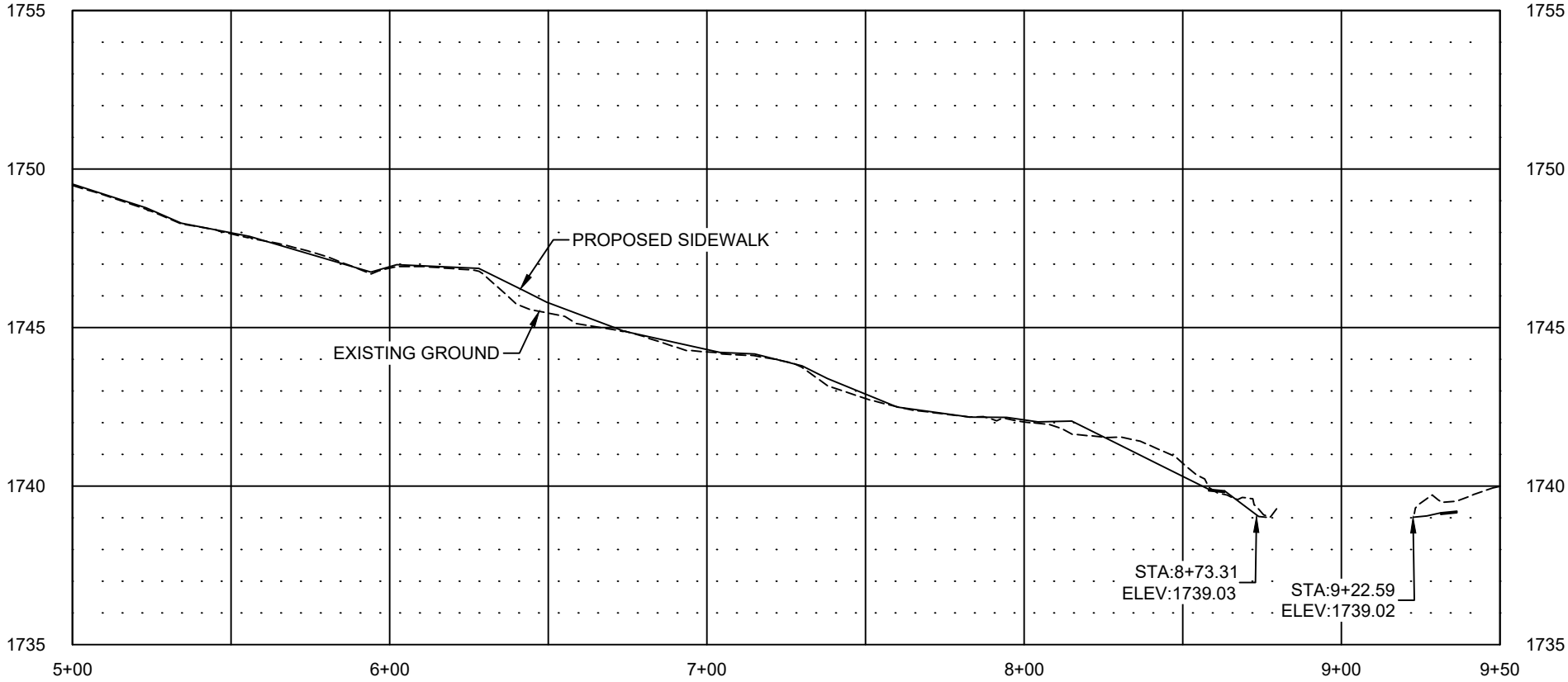
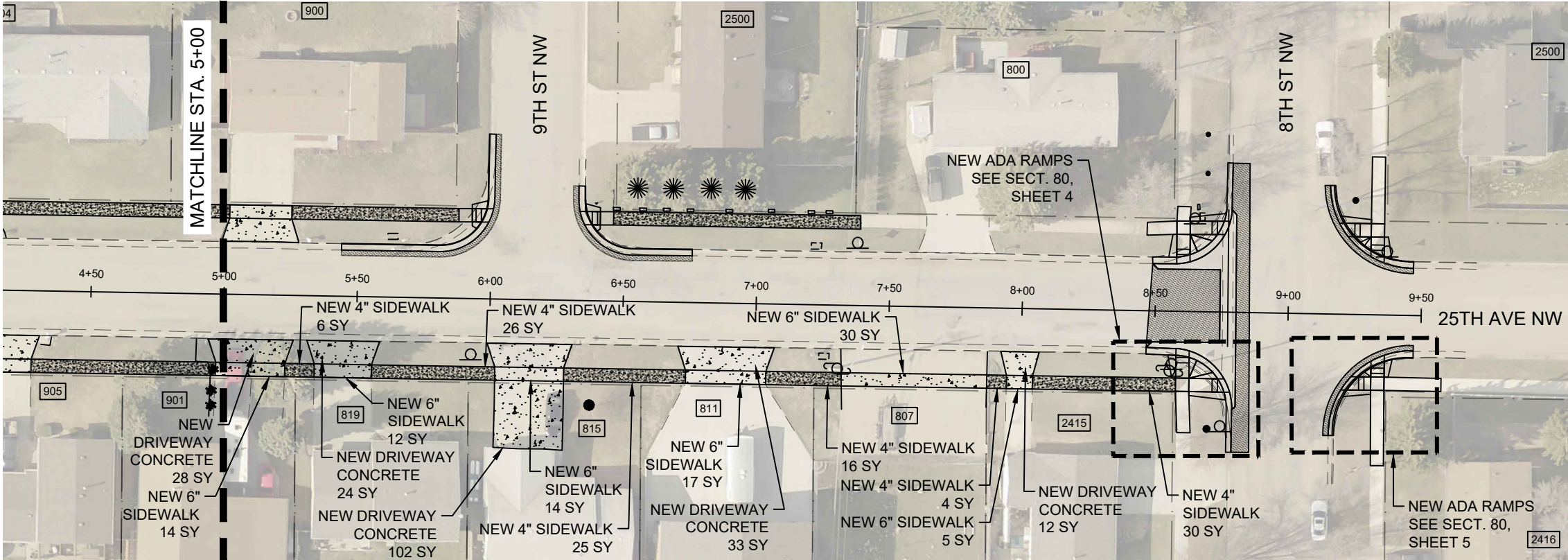
MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

City of Minot



PLAN AND PROFILE  
25TH AVE NW - SOUTH SIDE  
STA. 0+00 TO STA. 5+00

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

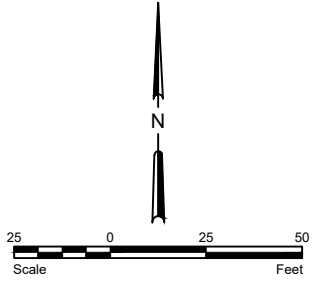
MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	4

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	16
750	115	SIDEWALK CONCRETE 4"	SY	107
750	140	SIDEWALK CONCRETE 6"	SY	92
750	1000	DRIVEWAY CONCRETE	SY	199

LEGEND

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

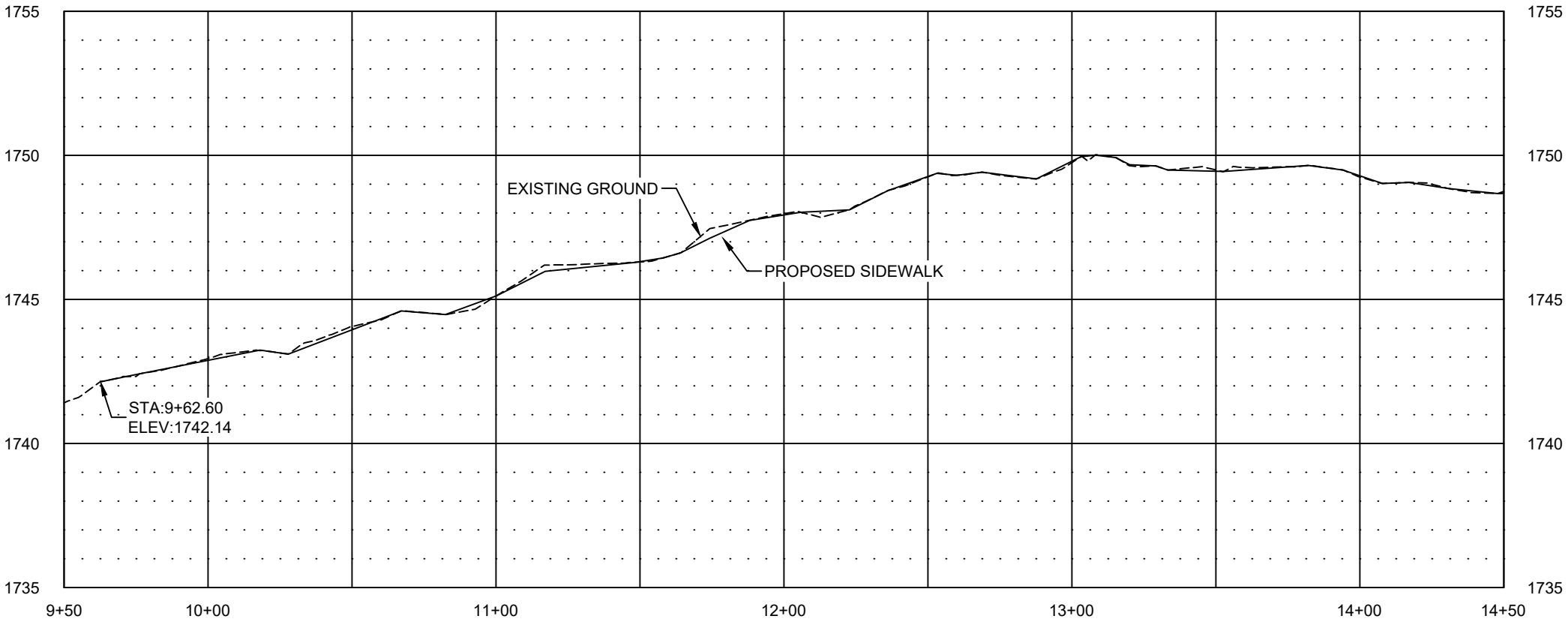
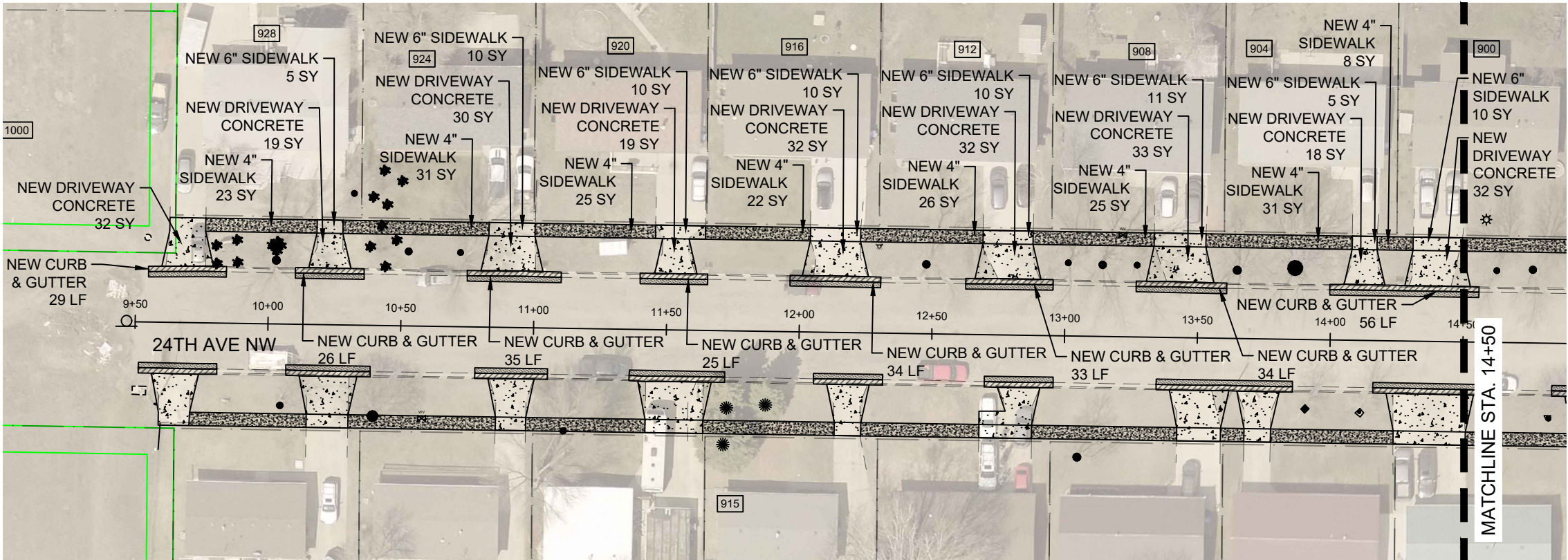


City of Minot



PLAN AND PROFILE  
25TH AVE NW - SOUTH SIDE  
STA. 5+00 TO STA. 9+50

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11/19/2025



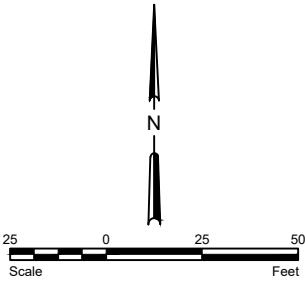
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VERTICAL SCALE: 1" = 10'

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	5

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	13
748	100	CURB & GUTTER	LF	272
750	115	SIDEWALK CONCRETE 4"	SY	191
750	140	SIDEWALK CONCRETE 6"	SY	71
750	1000	DRIVEWAY CONCRETE	SY	247

LEGEND

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



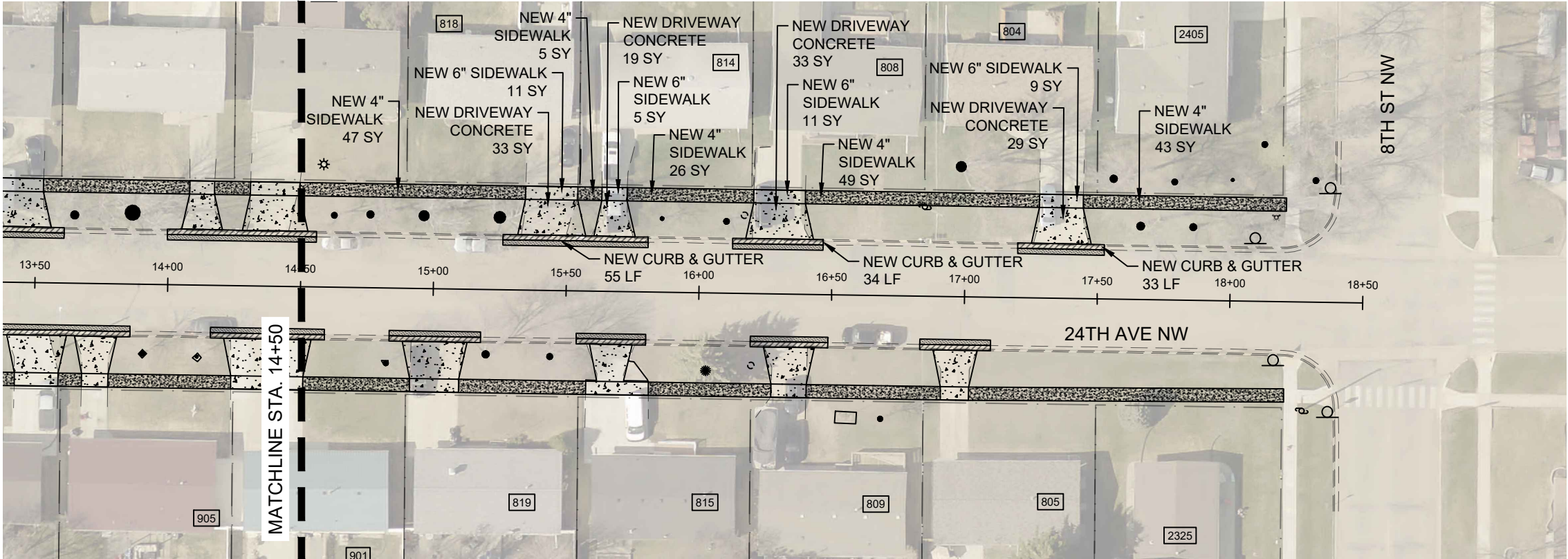
MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

City of Minot



PLAN AND PROFILE  
24TH AVE NW - NORTH SIDE  
STA. 9+50 TO STA. 14+50

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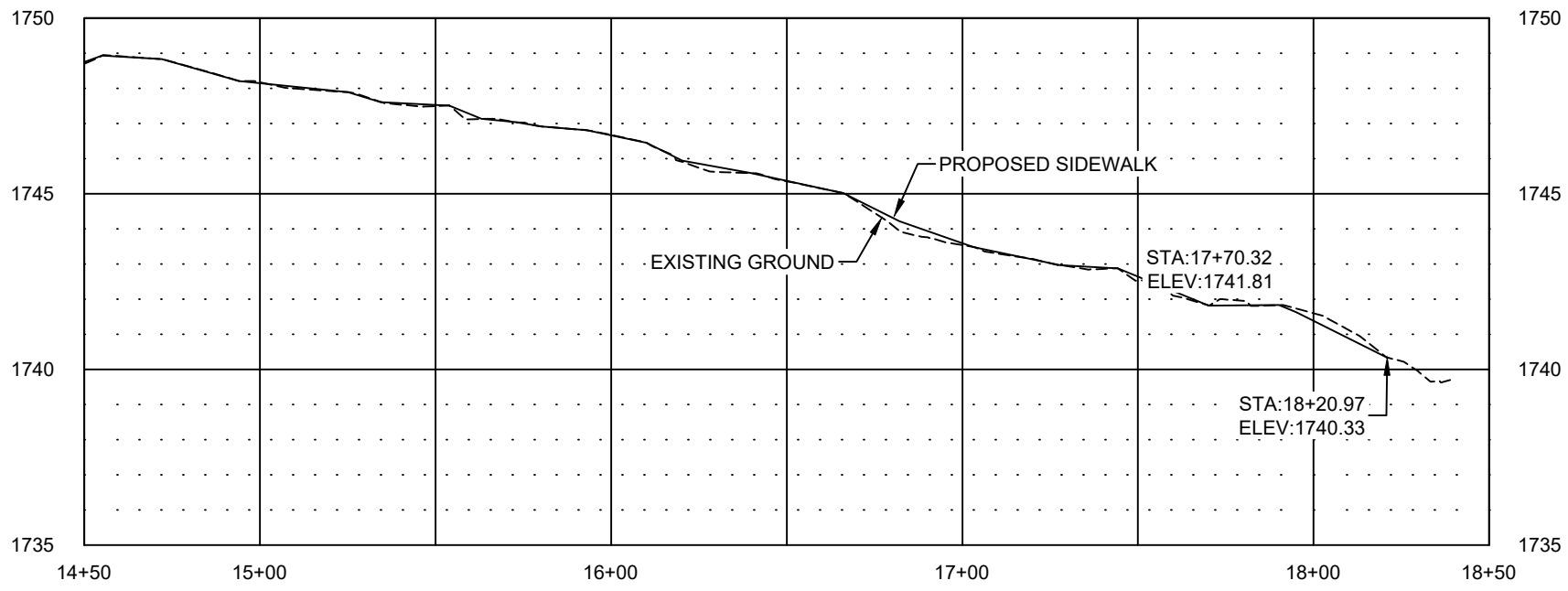


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	6

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	6
748	100	CURB & GUTTER	LF	122
750	115	SIDEWALK CONCRETE 4"	SY	170
750	140	SIDEWALK CONCRETE 6"	SY	36
750	1000	DRIVEWAY CONCRETE	SY	114

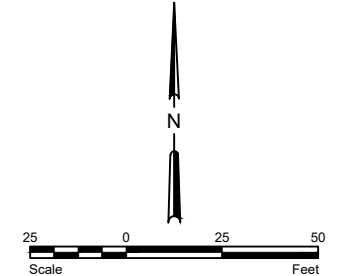
LEGEND

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



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

MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

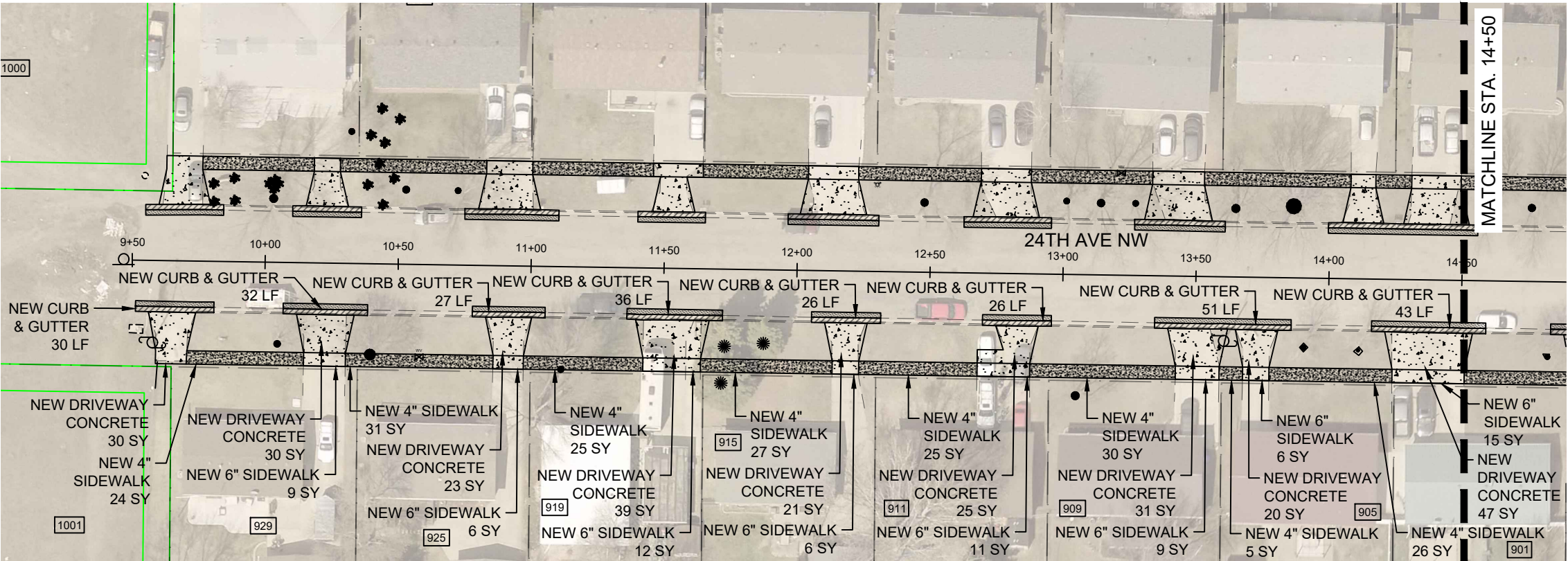


City of Minot



PLAN AND PROFILE  
24TH AVE NW - NORTH SIDE  
STA. 14+50 TO STA. 18+50

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11/19/2025

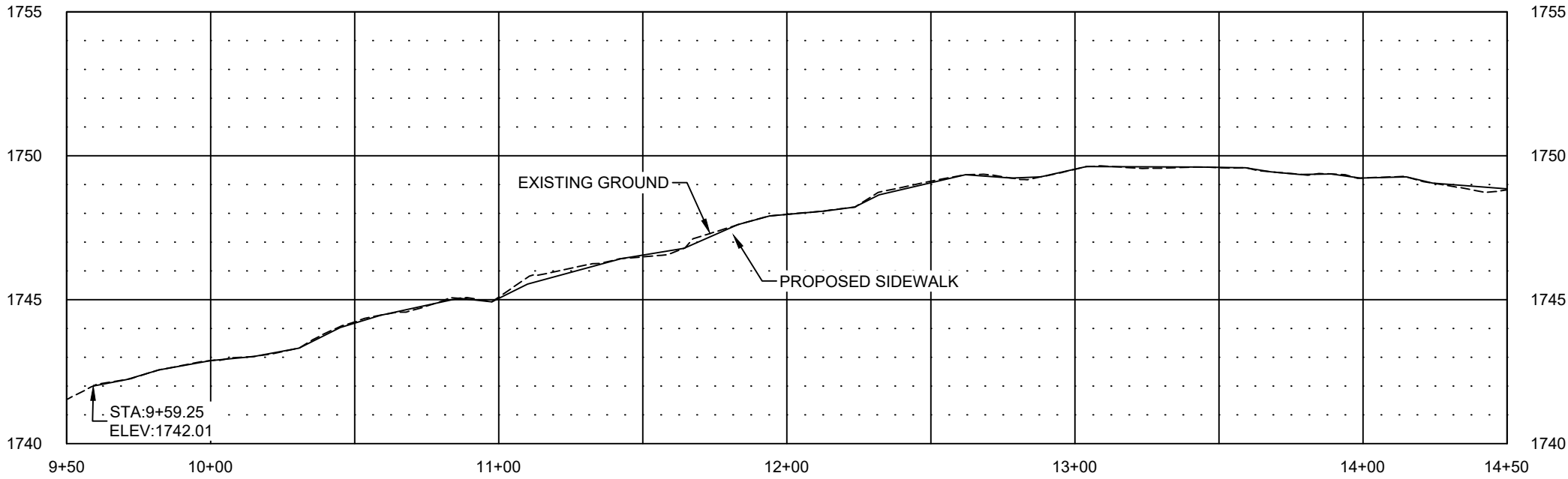


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	7

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	14
748	100	CURB & GUTTER	LF	271
750	115	SIDEWALK CONCRETE 4"	SY	193
750	140	SIDEWALK CONCRETE 6"	SY	74
750	1000	DRIVEWAY CONCRETE	SY	266

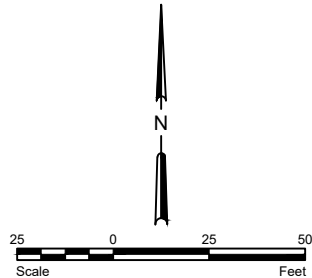
LEGEND

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



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

MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

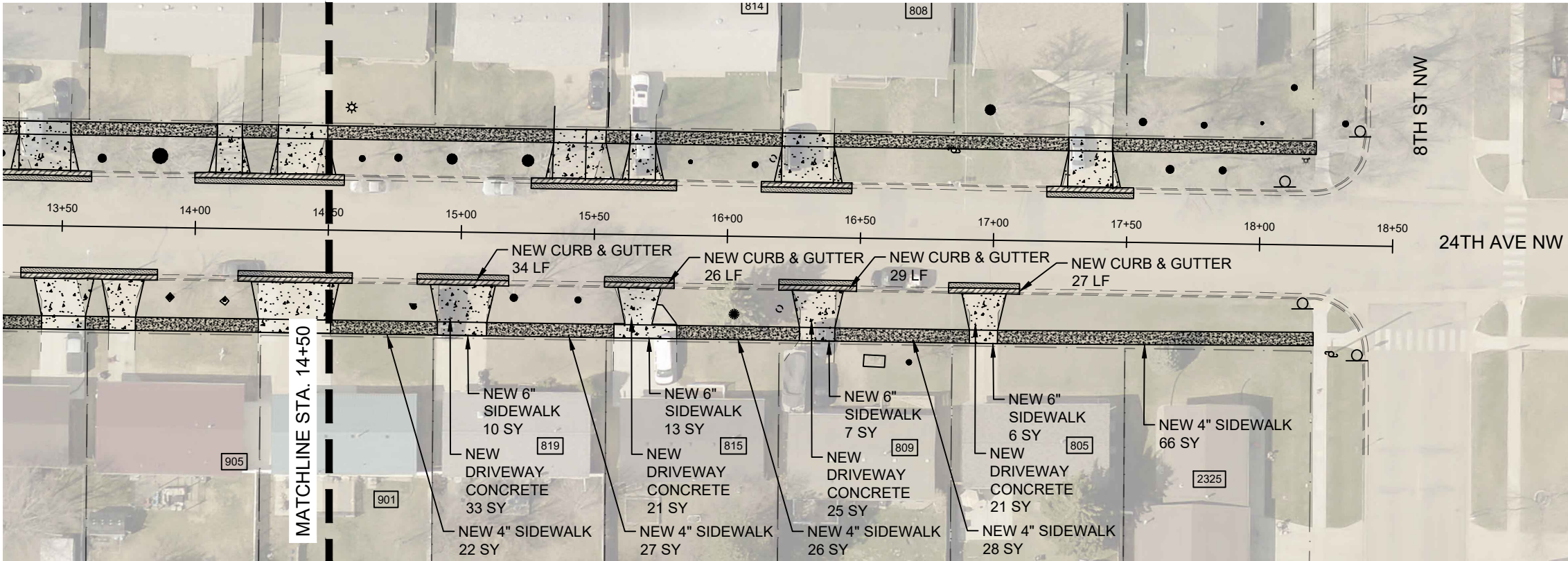


City of Minot



PLAN AND PROFILE  
24TH AVE NW - SOUTH SIDE  
STA. 9+50 TO STA. 14+50

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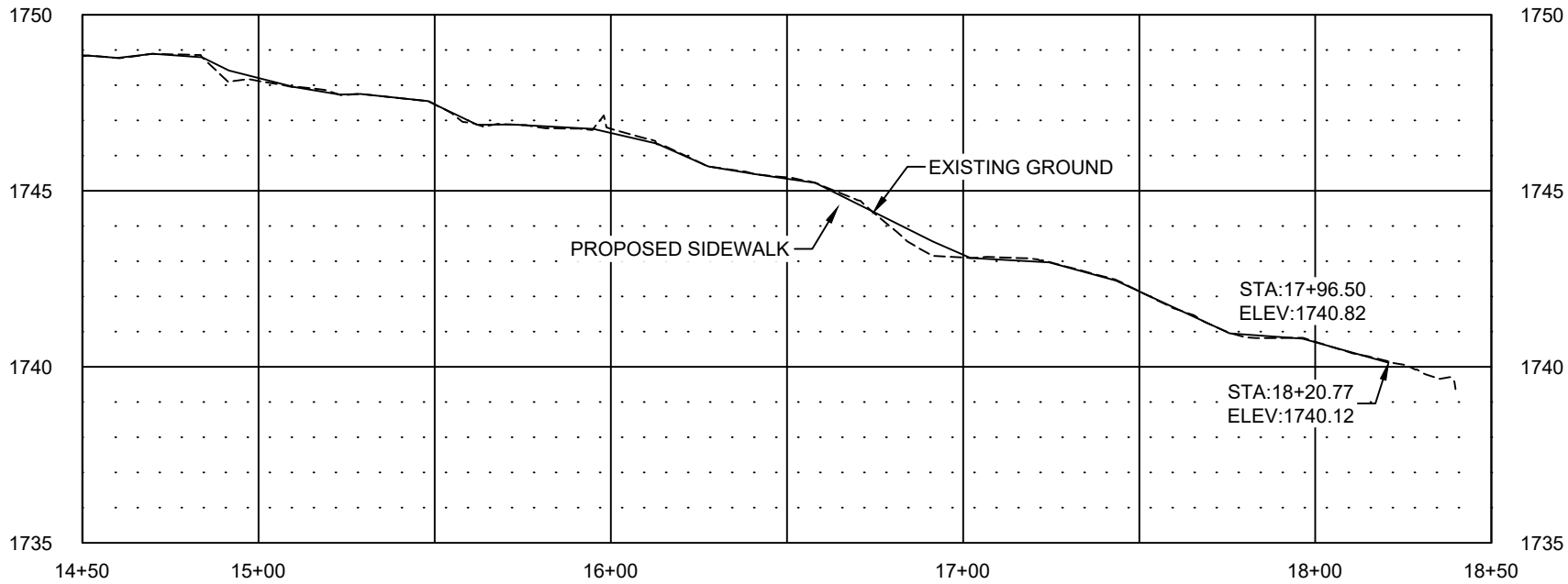


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	8

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	6
748	100	CURB & GUTTER	LF	116
750	115	SIDEWALK CONCRETE 4"	SY	169
750	140	SIDEWALK CONCRETE 6"	SY	36
750	1000	DRIVEWAY CONCRETE	SY	100

LEGEND

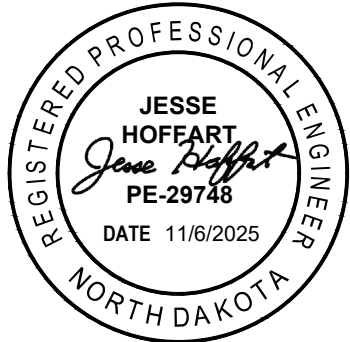
- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- EXISTING TREE



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

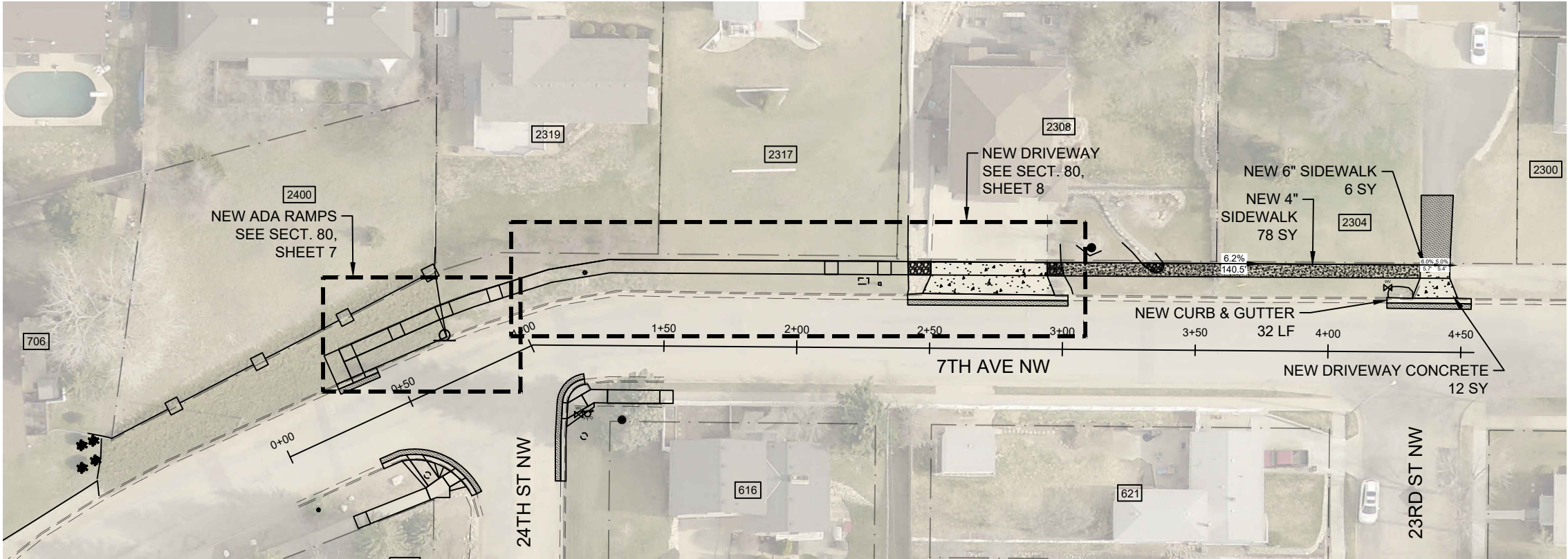
MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

City of Minot



PLAN AND PROFILE  
24TH AVE NW - SOUTH SIDE  
STA. 14+50 TO STA. 18+50

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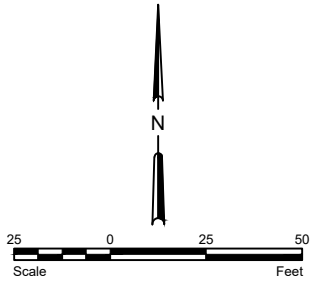


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	9

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	9
748	100	CURB & GUTTER	LF	32
750	115	SIDEWALK CONCRETE 4"	SY	78
750	140	SIDEWALK CONCRETE 6"	SY	6
750	1000	DRIVEWAY CONCRETE	SY	12

LEGEND

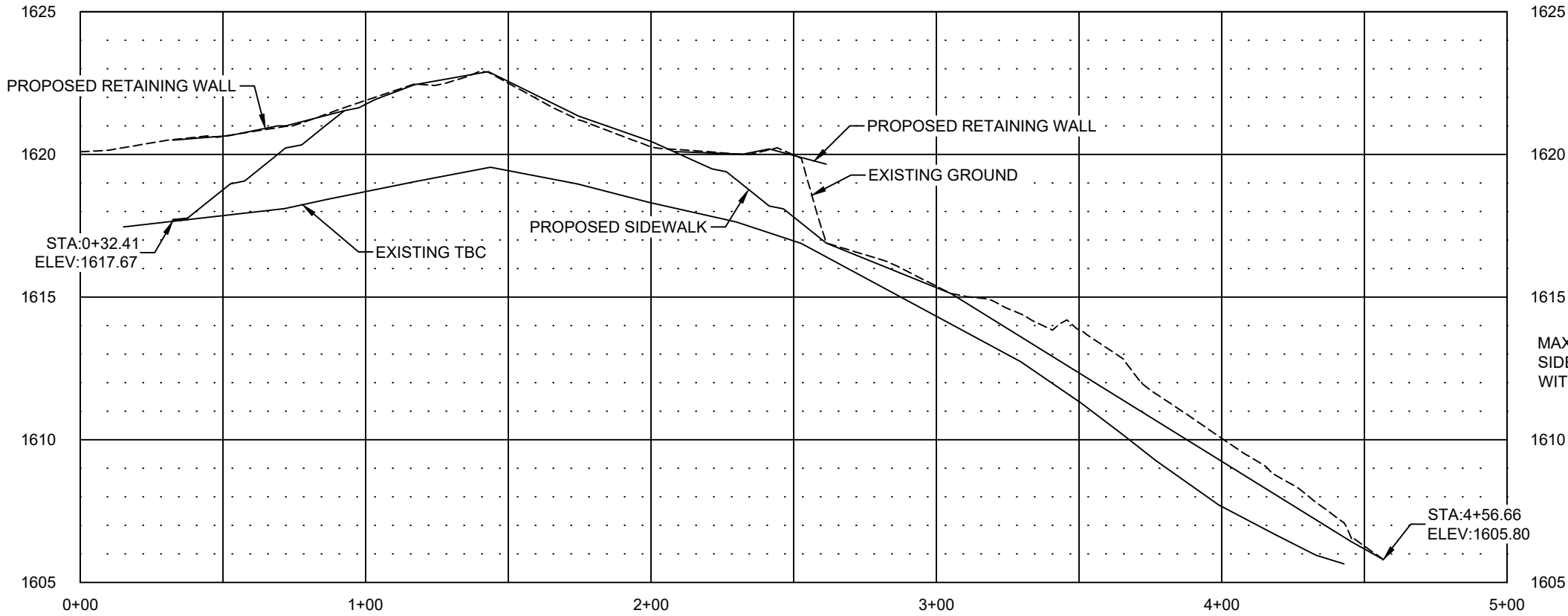
- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- EXISTING TREE



City of Minot

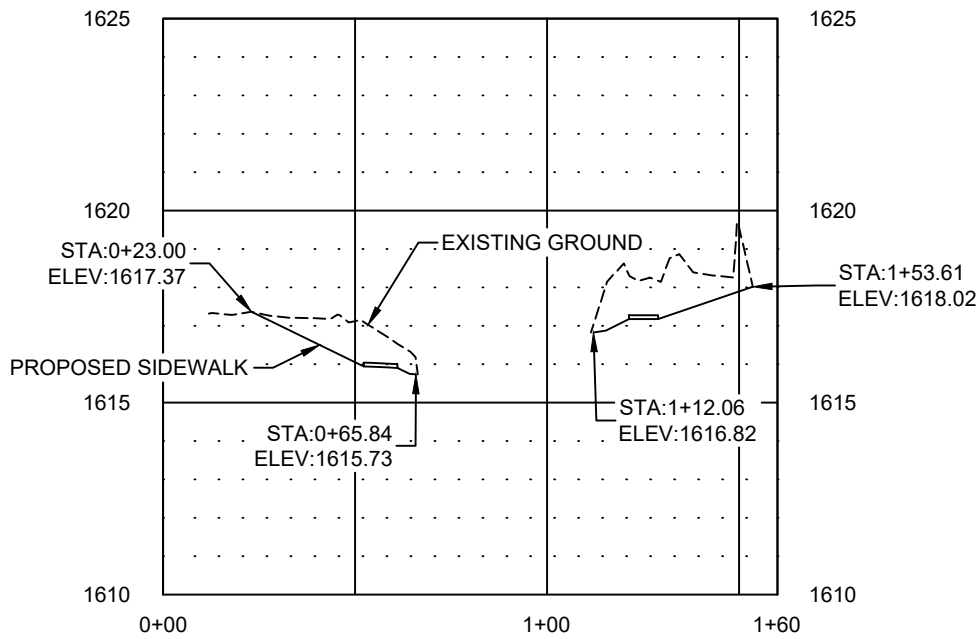
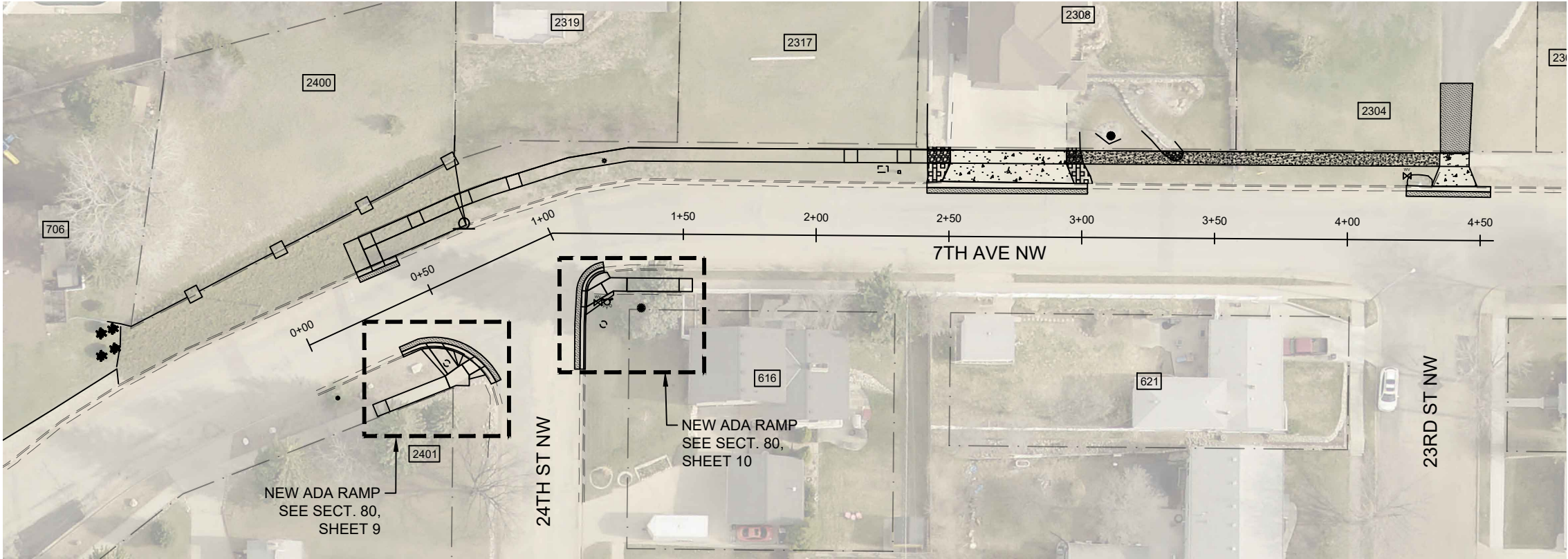


PLAN AND PROFILE  
7TH AVE NW - NORTH SIDE  
STA. 0+00 TO STA. 4+55



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

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MAXIMUM RUNNING SLOPE OF  
SIDEWALK IS PREFERRED TO BE 4.7%,  
WITH AN ABSOLUTE MAXIMUM OF 5.0%.

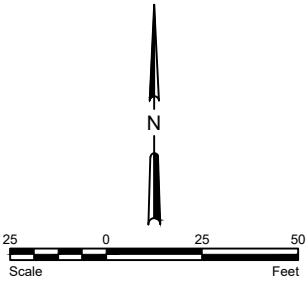
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	60	10

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	COMMERCIAL GRADE HOT MIX ASPHALT	TON	4

LEGEND

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



City of Minot






PLAN AND PROFILE  
7TH AVE NW - SOUTH SIDE  
STA. 0+00 TO STA. 4+55

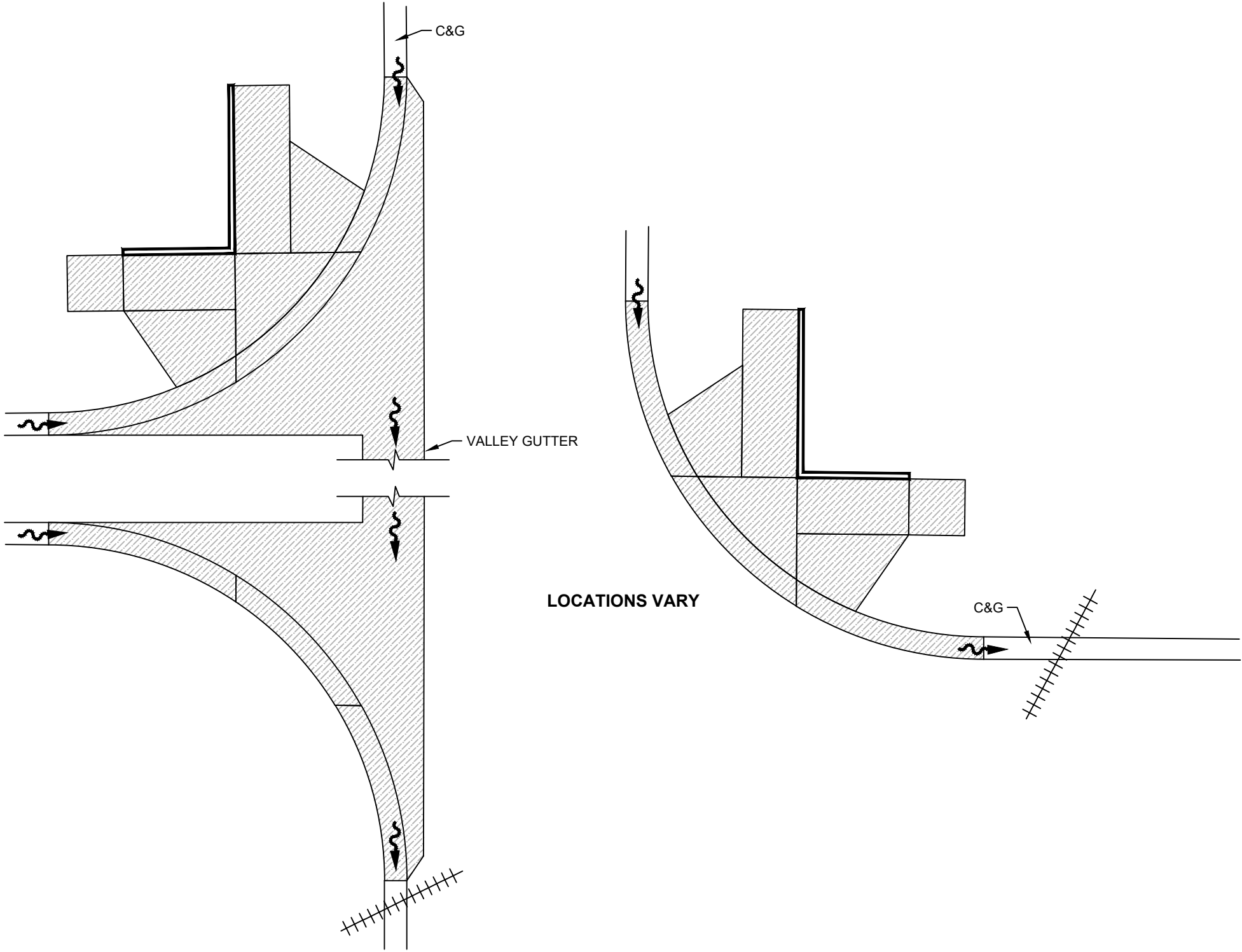
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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	76	1


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

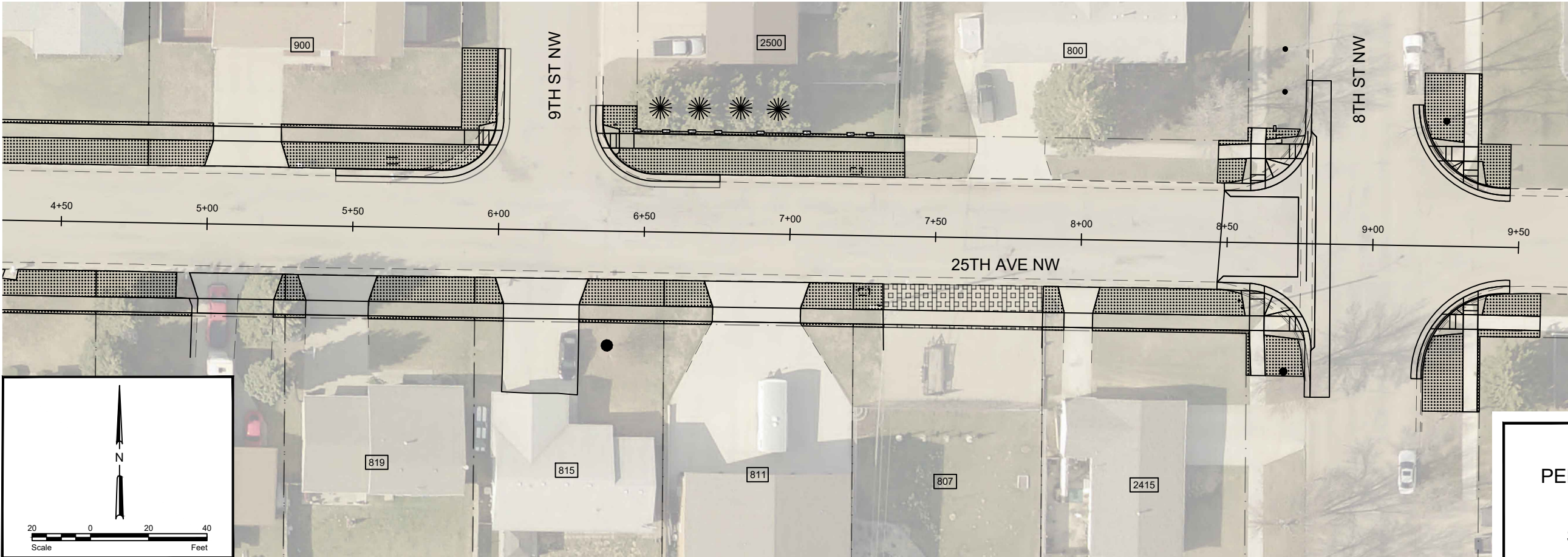
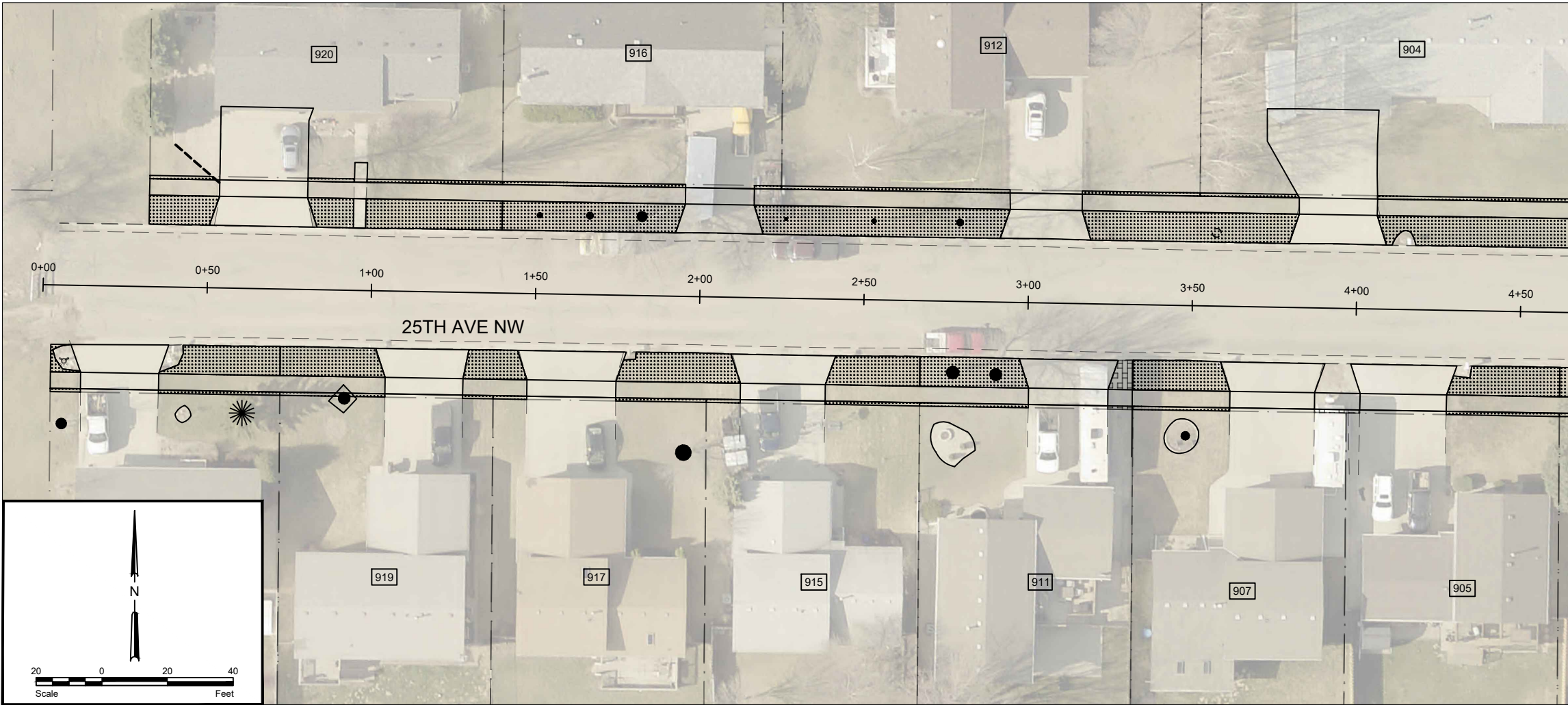


**City of Minot**



TEMPORARY SEDIMENT AND  
EROSION CONTROL

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	77	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	208
251	300	SEEDING CLASS III	ACRE	0.26
253	200	HYDRAULIC MULCH	SY	1249

LEGEND

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

City of Minot



PERMANENT SEDIMENT AND  
EROSION CONTROL  
STA. 0+00 TO STA. 9+50

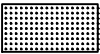
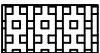
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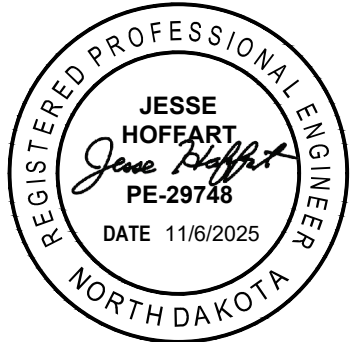
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	77	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	342
251	300	SEEDING CLASS III	ACRE	0.42
253	200	HYDRAULIC MULCH	SY	2054

LEGEND

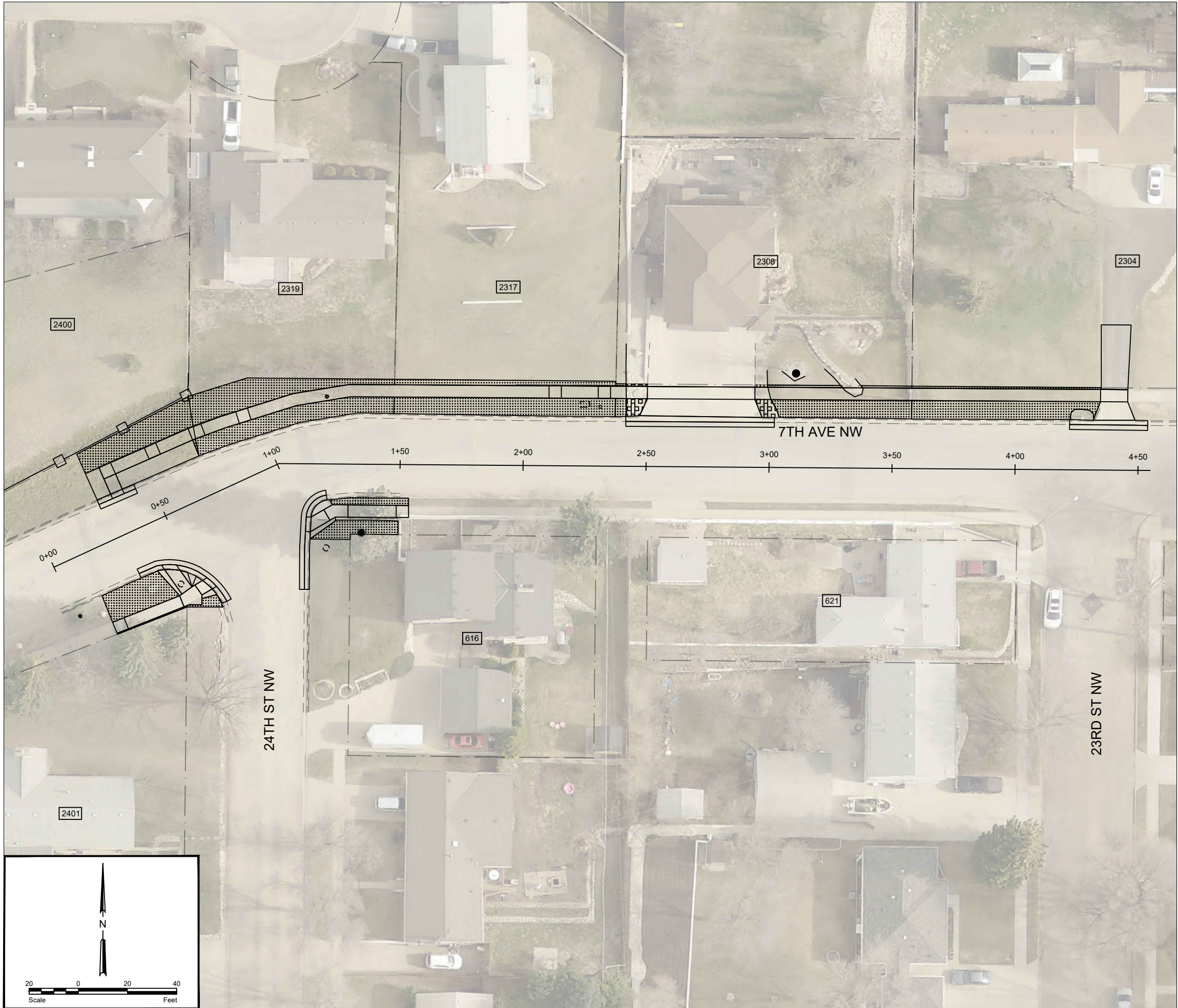
-  SEEDING CLASS 3 AND HYDRAULIC MULCH
-  SALVAGE & REPLACE ROCK

City of Minot



PERMANENT EROSION AND  
SEDIMENT CONTROL  
STA. 9+50 TO STA.18+50

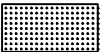
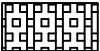
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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	77	3

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	79
251	300	SEEDING CLASS III	ACRE	0.10
253	200	HYDRAULIC MULCH	SY	472

LEGEND

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

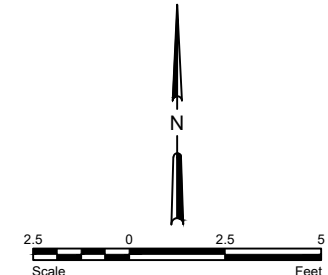
City of Minot



PERMANENT EROSION AND  
SEDIMENT CONTROL  
STA. 0+00 TO STA. 4+50

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	2.0
750	140	SIDEWALK CONCRETE 6 IN	SY	5
750	2115	DETECTABLE WARNING PANELS	SF	10

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	2.0
750	140	SIDEWALK CONCRETE 6 IN	SY	5
750	2115	DETECTABLE WARNING PANELS	SF	10



## **ABBREVIATIONS**

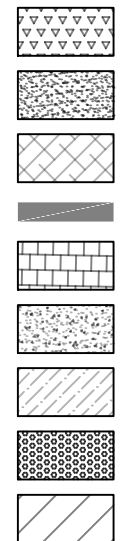

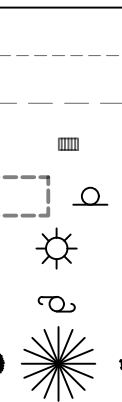
SW	SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE


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1/16/2025

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	2

LEGEND

- 
  - CURB AND GUTTER
  - CURB AND GUTTER - ADA KNOCK DOWN
  - 6" CONCRETE VALLEY GUTTER (REINFORCED)
  - TYPE 1 CURB
  - 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
  - TYPE 1 CURNB/RETAINING WALL HEIGHT
  - 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
  - UTILITY POLE
  - EXISTING TREES/SHRUBS



REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFEART

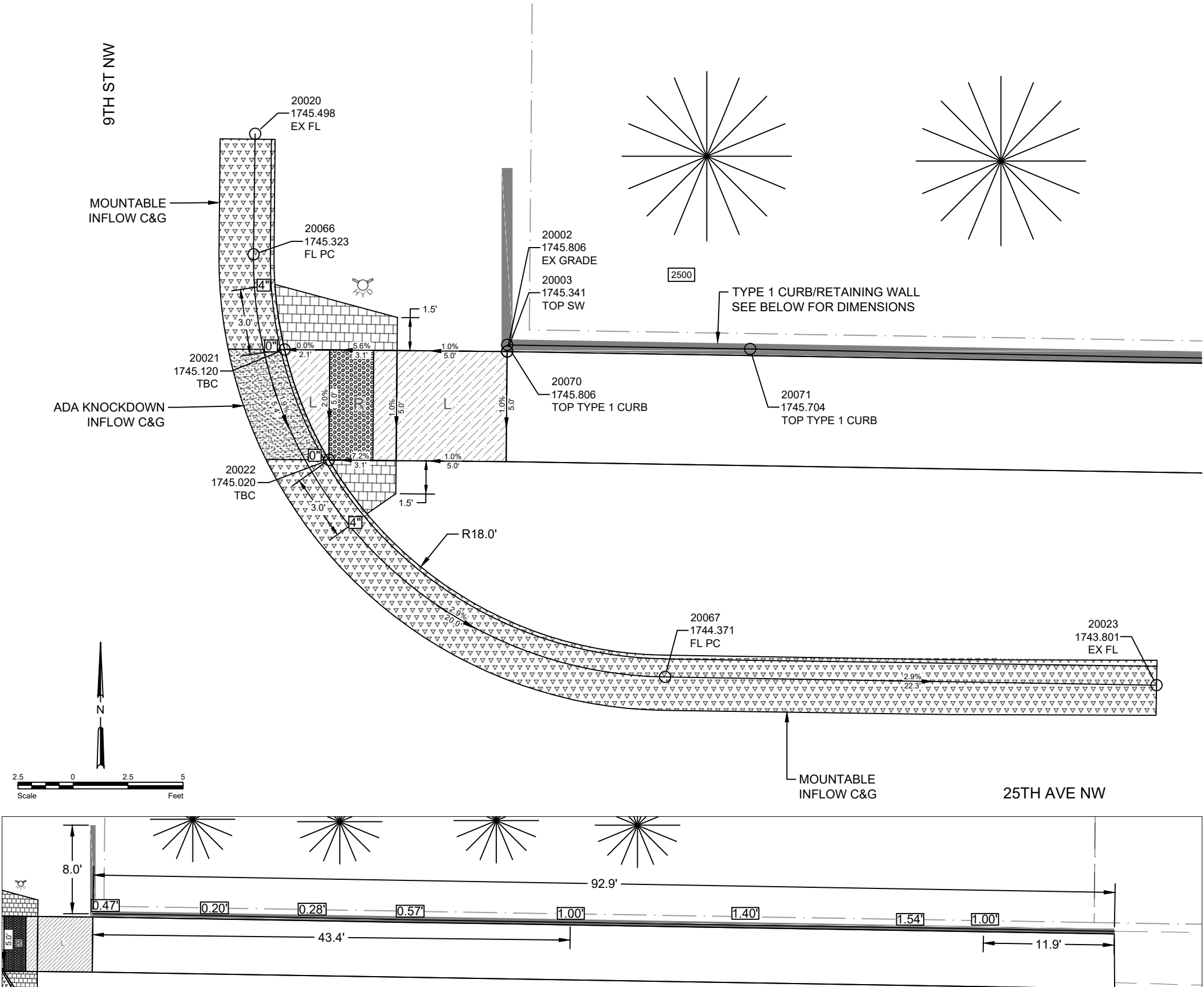
*Jesse Hoffeart*

PE-29748

DATE 11/6/2025

NORTH DAKOTA

ADA RAMP DETAILS  
9TH ST NW & 25TH AVE NW  
NE CORNER



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB - TYPE I	LF	63
750	30	PIGMENTED IMPRINTED CONCRETE	SY	1.9
750	140	SIDEWALK CONCRETE 6 IN	SY	5
750	2115	DETECTABLE WARNING PANELS	SF	10
930	9543	RETAINING WALL	SF	50

ABBREVIATIONS

- SW

TBC

EX

FL

GT
- SIDEWALK

TOP BACK OF CURB

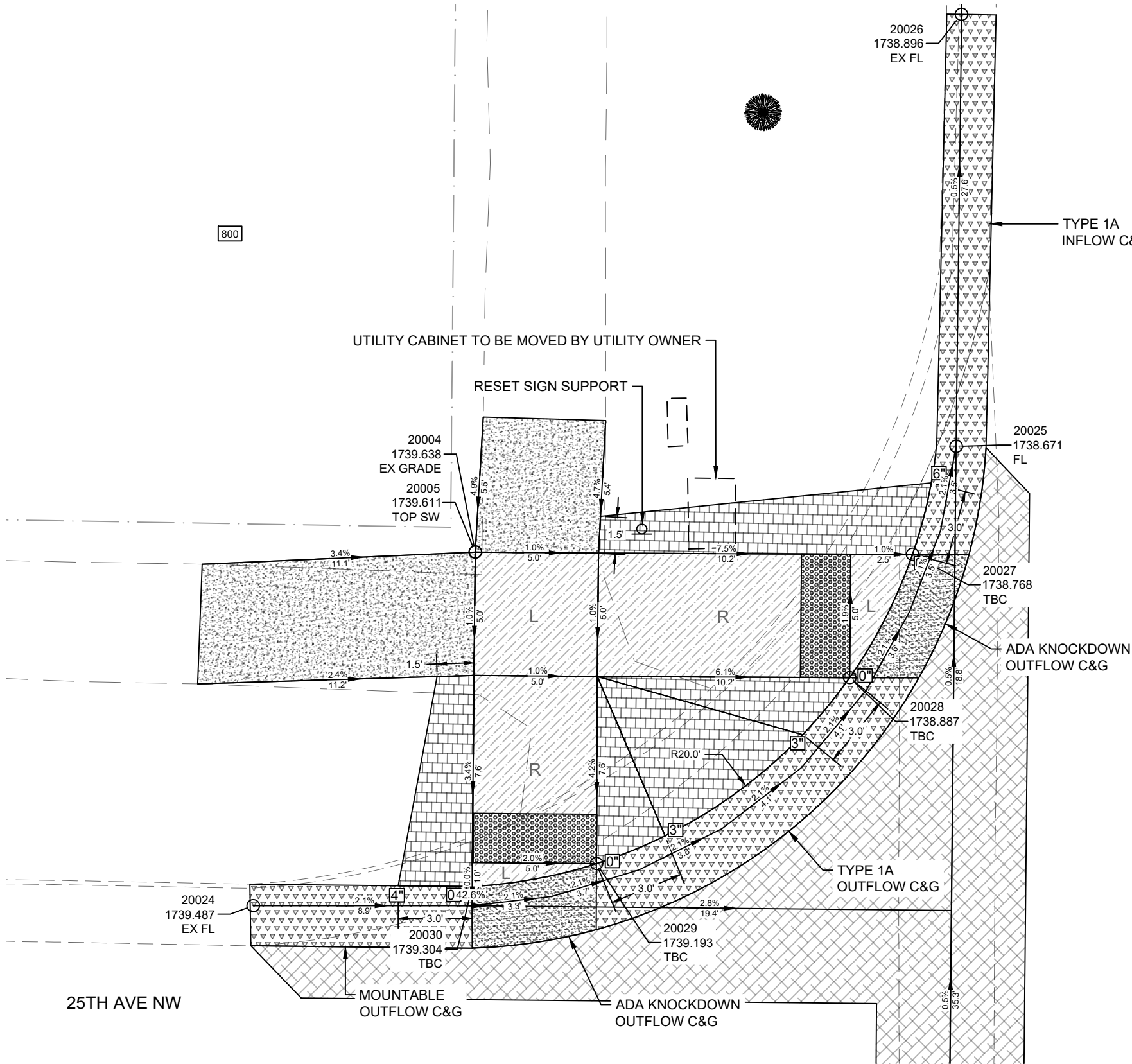
EXISTING

FLOW LINE

GUTTER TOE

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11/6/2025



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72IN	SY	64
750	30	PIGMENTED IMPRINTED CONCRETE	SY	10.6
750	115	SIDEWALK CONCRETE 4 IN	SY	9
750	140	SIDEWALK CONCRETE 6 IN	SY	14
750	2115	DETECTABLE WARNING PANELS	SF	20
754	593	RESET SIGN SUPPORT	EA	1

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	3

LEGEND

- 
- CURB AND GUTTER
- 
- CURB AND GUTTER - ADA KNOCK DOWN
- 
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- 
- TYPE 1 CURB
- 
- 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
- 
- TYPE 1 CURNB/RETAINING WALL HEIGHT
- 
- 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
- 
- UTILITY POLE
- 
- EXISTING TREES/SHRUBS



City of Minot



ABBREVIATIONS

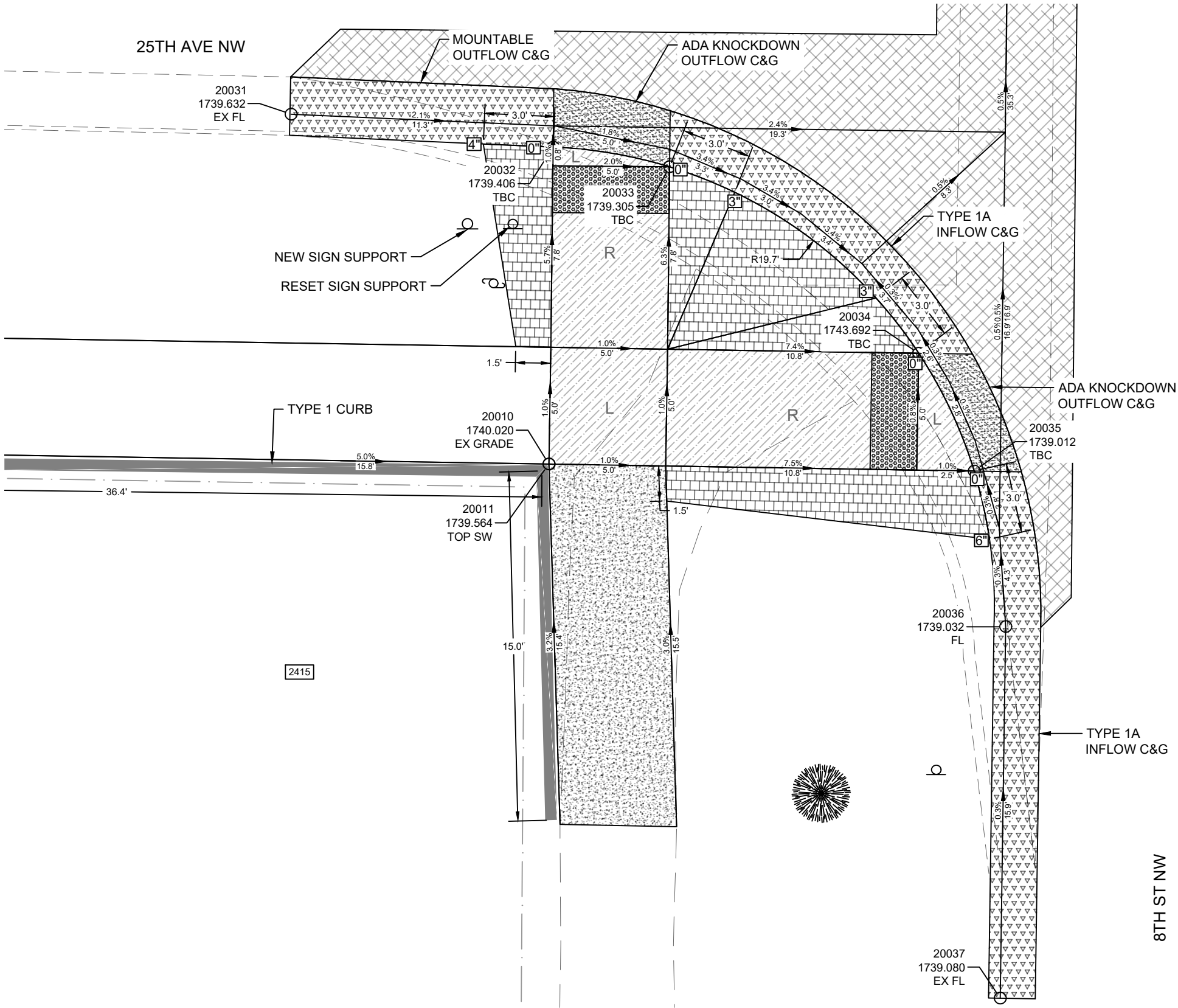
- SW
- SIDEWALK
- TBC
- TOP BACK OF CURB
- EX
- EXISTING
- FL
- FLOW LINE
- GT
- GUTTER TOE

ADA RAMP DETAILS  
8TH ST NW & 25TH AVE NW  
NW CORNER

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11/6/2025

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB - TYPE I	LF	51
750	30	PIGMENTED IMPRINTED CONCRETE	SY	11.3
750	115	SIDEWALK CONCRETE 4 IN	SY	9
750	140	SIDEWALK CONCRETE 6 IN	SY	14
750	2115	DETECTABLE WARNING PANELS	SF	20
754	593	RESET SIGN SUPPORT	EA	1



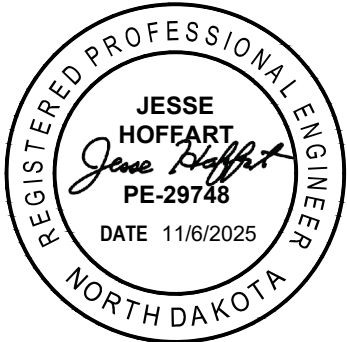
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	4

LEGEND

	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	TYPE 1 CURB
	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
	TYPE 1 CURNB/RETAINING WALL HEIGHT
	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
	UTILITY POLE
	EXISTING TREES/SHRUBS



City of Minot



ABBREVIATIONS

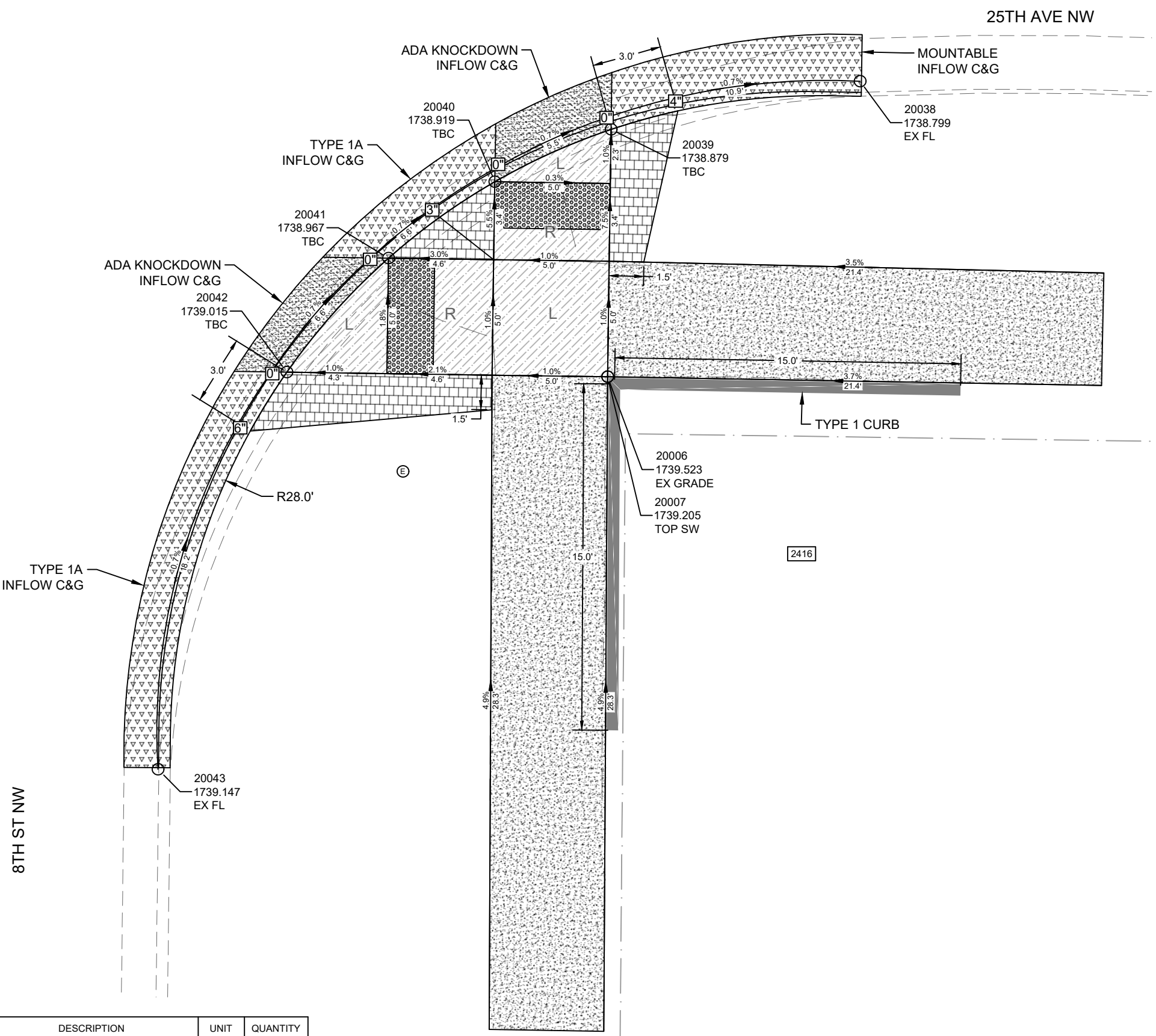
SW	SIDEWALK
TBC	TOP BACK OF CURB
EX	EXISTING
FL	FLOW LINE
GT	GUTTER TOE

ADA RAMP DETAILS  
8TH ST NW & 25TH AVE NW  
SW CORNER

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11/6/2025

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	5



LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- TYPE 1 CURB
- 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
- TYPE 1 CURNB/RETAINING WALL HEIGHT
- 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
- UTILITY POLE
- EXISTING TREES/SHRUBS

ABBREVIATIONS

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

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB - TYPE I	LF	30
750	30	PIGMENTED IMPRINTED CONCRETE	SY	4.5
750	115	SIDEWALK CONCRETE 4 IN	SY	27
750	140	SIDEWALK CONCRETE 6 IN	SY	9
750	2115	DETECTABLE WARNING PANELS	SF	20

City of Minot



ADA RAMP DETAILS  
8TH ST NW & 25TH AVE NW  
SE CORNER

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	6

LEGEND

	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	TYPE 1 CURB
	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
	TYPE 1 CURNB/RETAINING WALL HEIGHT
	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
	UTILITY POLE
	EXISTING TREES/SHRUBS



City of Minot

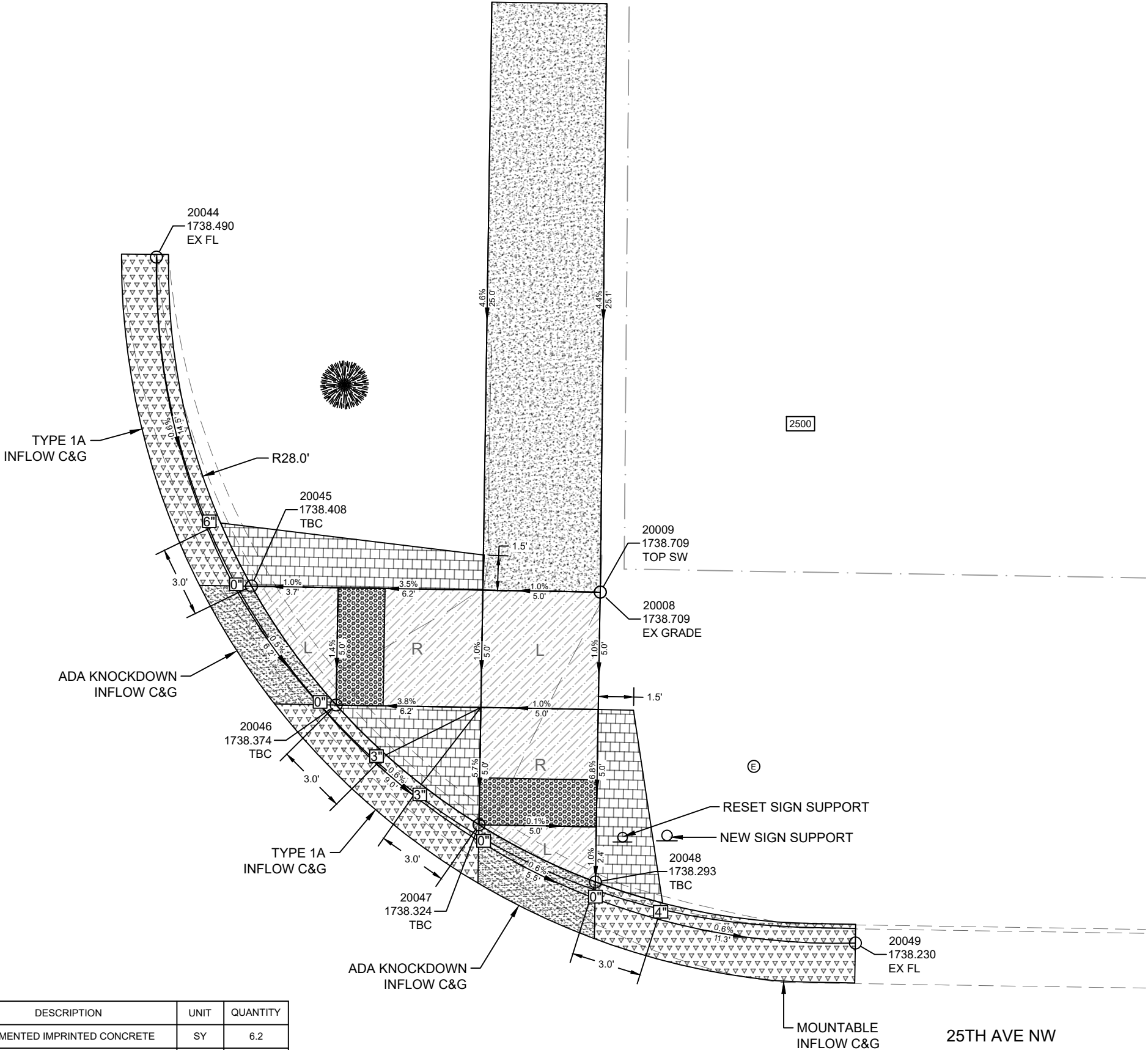


ABBREVIATIONS

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


ADA RAMP DETAILS  
8TH ST NW & 25TH AVE NW  
NE CORNER


SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	6.2
750	115	SIDEWALK CONCRETE 4 IN	SY	14
750	140	SIDEWALK CONCRETE 6 IN	SY	11
750	2115	DETECTABLE WARNING PANELS	SF	20
754	593	RESET SIGN SUPPORT	EA	1





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1/16/2025


LEGEND


- 


CURB AND GUTTER
- 


CURB AND GUTTER - ADA KNOCK DOWN
- 


6" CONCRETE VALLEY GUTTER (REINFORCED)
- 


TYPE 1 CURB
- 

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
- 

0.00'


TYPE 1 CURNB/RETAINING WALL HEIGHT
- 

WATER FLOW DIRECTION
- 


UTILITY POLE
- 

EXISTING TREES/SHRUBS
- 


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
- 

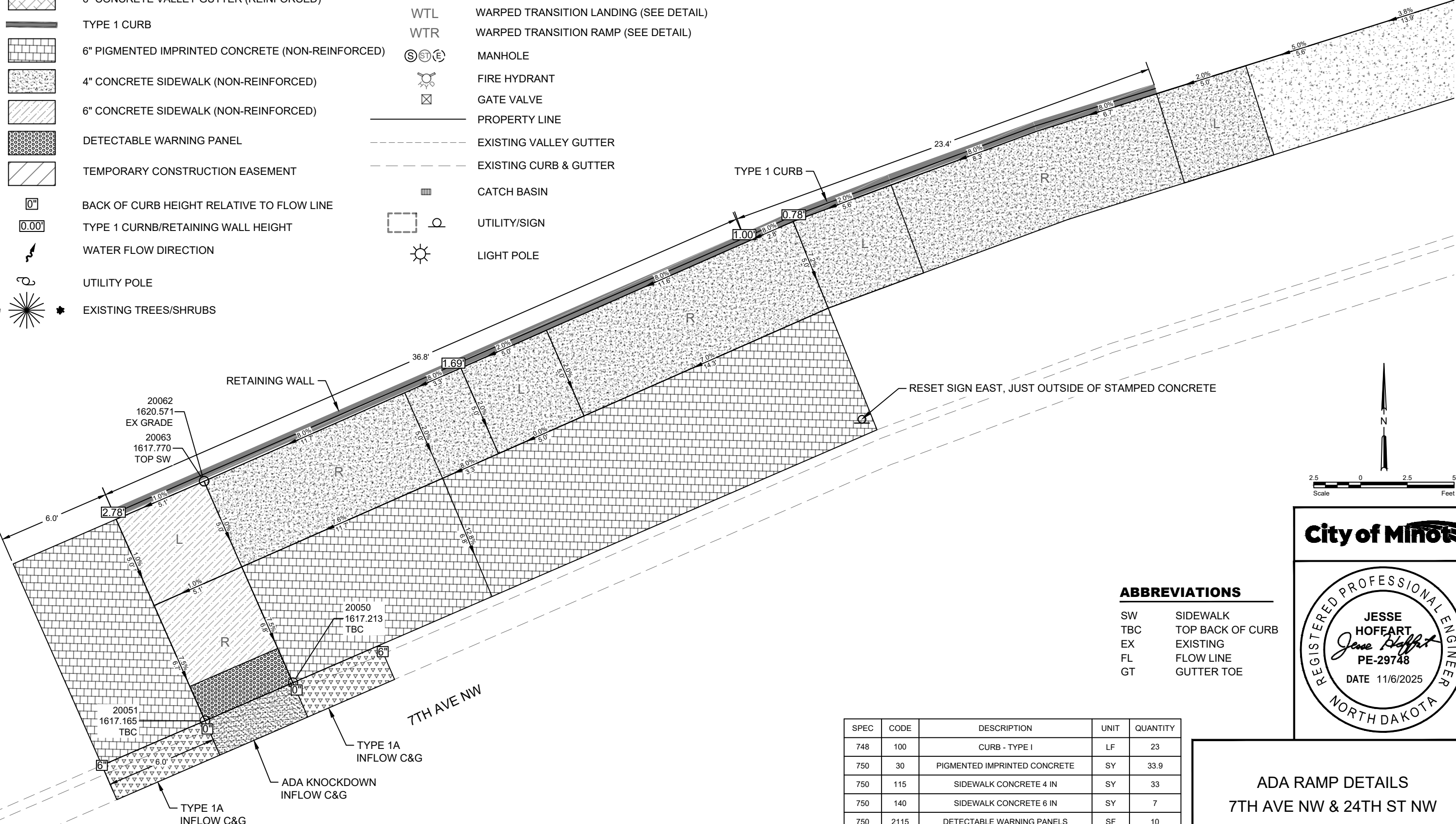
EXISTING CURB & GUTTER
- 

CATCH BASIN
- 

UTILITY/SIGN
- 

LIGHT POLE

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	7



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

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB - TYPE I	LF	23
750	30	PIGMENTED IMPRINTED CONCRETE	SY	33.9
750	115	SIDEWALK CONCRETE 4 IN	SY	33
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10
930	9543	RETAINING WALL	SF	37

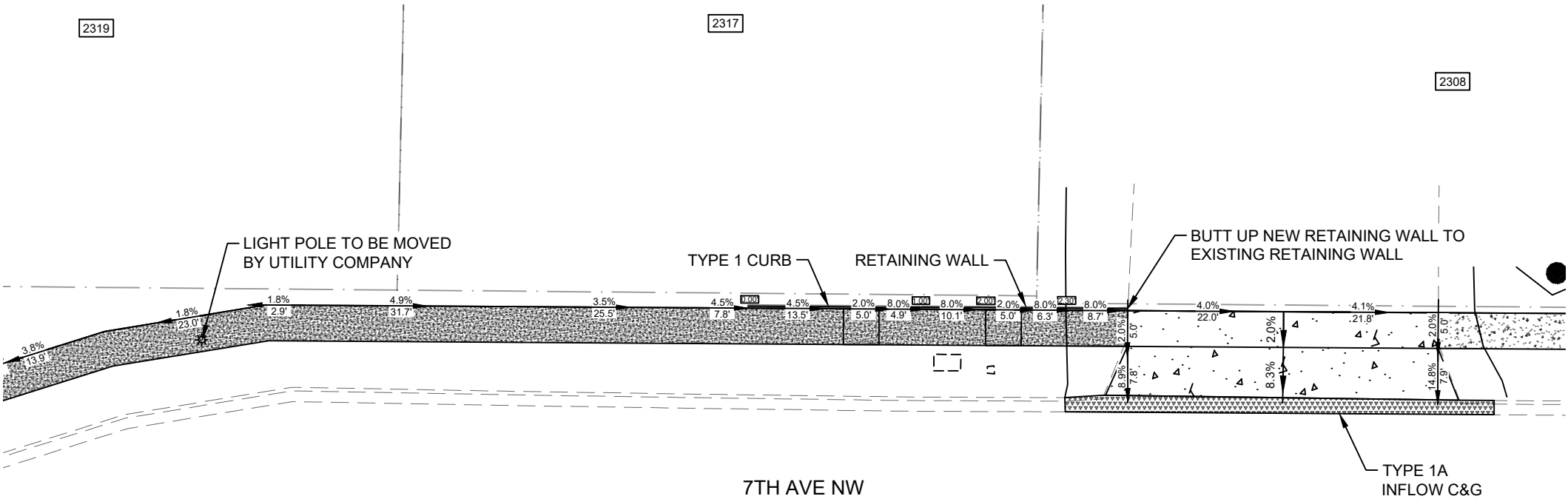
City of Minot



ADA RAMP DETAILS  
7TH AVE NW & 24TH ST NW  
NW CORNER

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	8



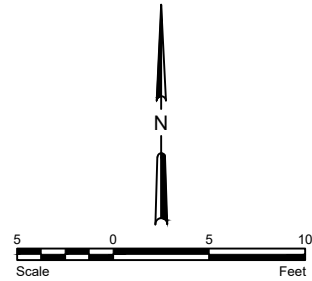
ABBREVIATIONS

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

LEGEND

	CURB AND GUTTER		L	LOW SLOPE AREA (2.1% MAX SLOPE IN ALL DIRECTIONS)
	CURB AND GUTTER - ADA KNOCK DOWN		R	ADA RAMP WITH MAX SLOPE OF 8.3%
	6" CONCRETE VALLEY GUTTER (REINFORCED)		TP	TRANSITIONAL TIE-IN PANEL (SEE DETAIL)
	TYPE 1 CURB		WTL	WARPED TRANSITION LANDING (SEE DETAIL)
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)		WTR	WARPED TRANSITION RAMP (SEE DETAIL)
	4" CONCRETE SIDEWALK (NON-REINFORCED)		(S)(ST)(E)	MANHOLE
	6" CONCRETE SIDEWALK (NON-REINFORCED)			FIRE HYDRANT
	DETECTABLE WARNING PANEL			GATE VALVE
	TEMPORARY CONSTRUCTION EASEMENT		---	PROPERTY LINE
	0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE		---	EXISTING VALLEY GUTTER
	0.00' TYPE 1 CURNB/RETAINING WALL HEIGHT		---	EXISTING CURB & GUTTER
	WATER FLOW DIRECTION			CATCH BASIN
	UTILITY POLE			UTILITY/SIGN
	EXISTING TREES/SHRUBS			LIGHT POLE

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB - TYPE I	LF	24
750	115	SIDEWALK CONCRETE 4 IN	SY	91
750	140	SIDEWALK CONCRETE 6 IN	SY	24
750	1000	DRIVEWAY CONCRETE	SY	37
930	9543	RETAINING WALL	SF	29



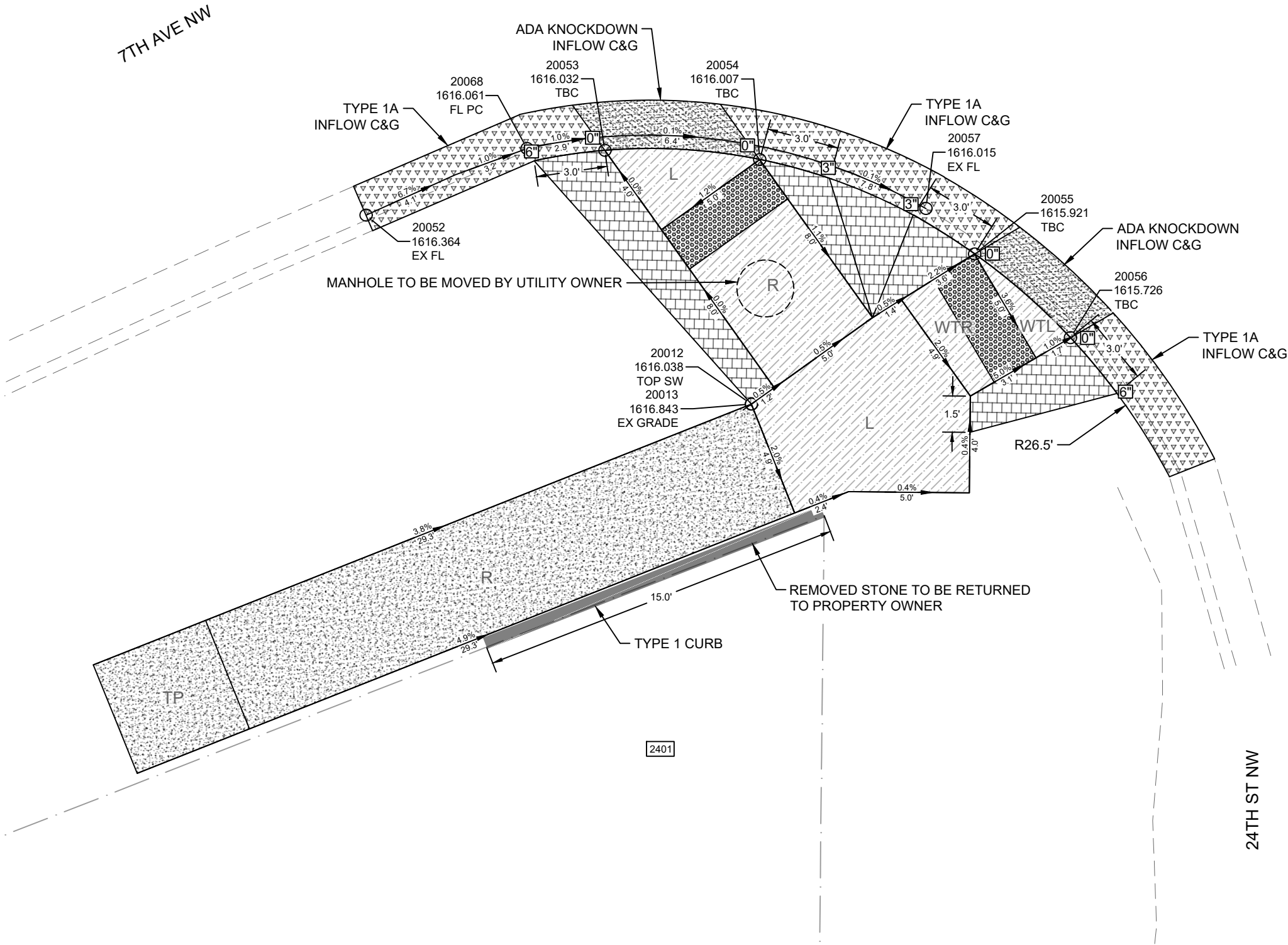
City of Minot



ADA RAMP DETAILS  
7TH AVE NW

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1/16/2025



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB - TYPE I	LF	15
750	30	PIGMENTED IMPRINTED CONCRETE	SY	6.5
750	115	SIDEWALK CONCRETE 4 IN	SY	16
750	140	SIDEWALK CONCRETE 6 IN	SY	14
750	2115	DETECTABLE WARNING PANELS	SF	20

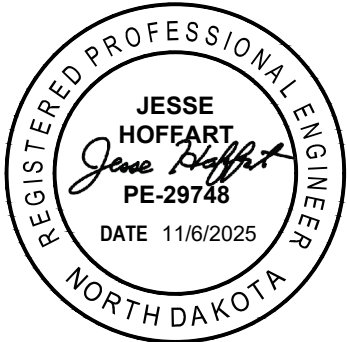
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	9

LEGEND

	CURB AND GUTTER
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	TYPE 1 CURB
	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
	TYPE 1 CURNB/RETAINING WALL HEIGHT
	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
	UTILITY POLE
	EXISTING TREES/SHRUBS



City of Minot



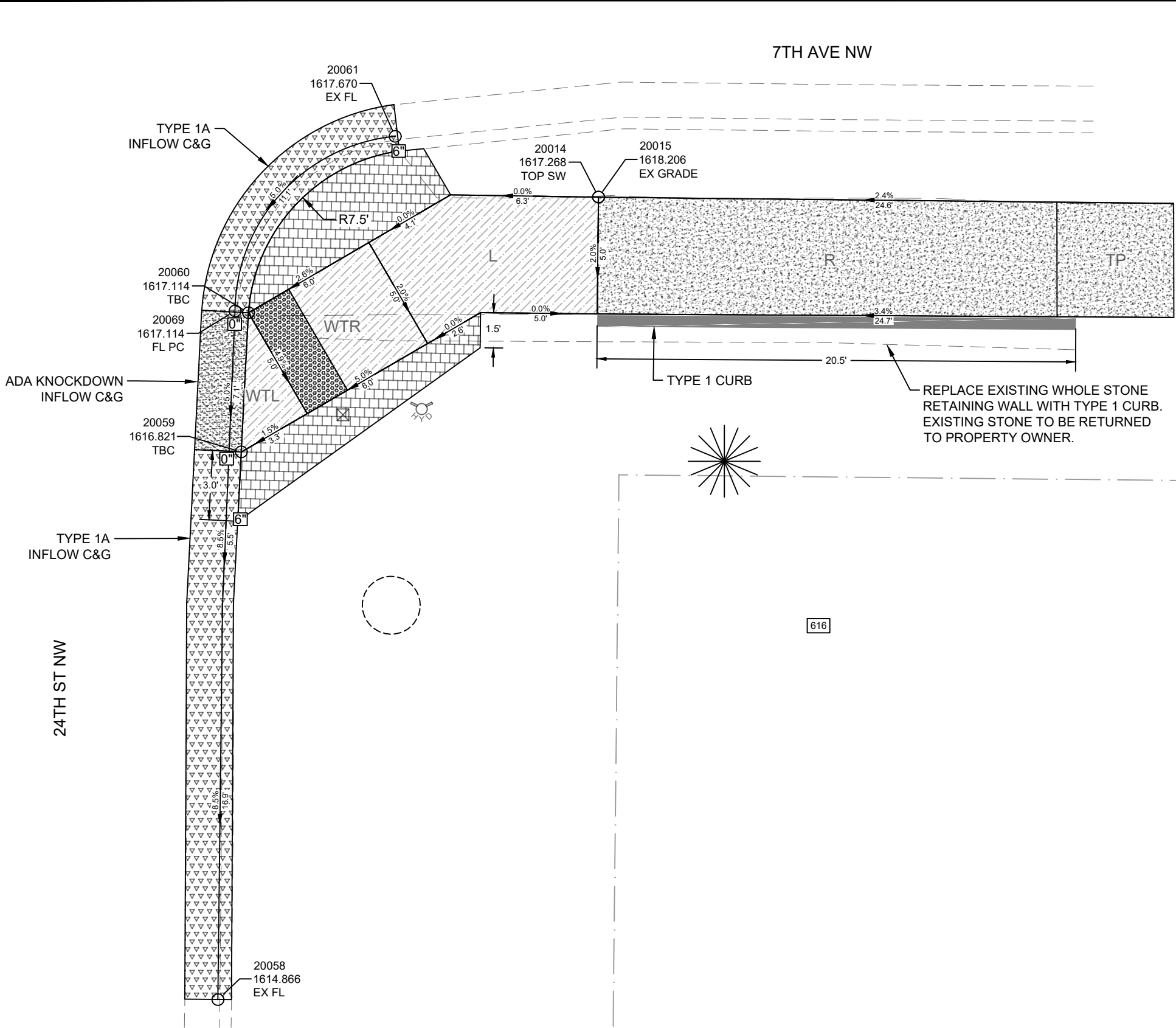
ABBREVIATIONS

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

ADA RAMP DETAILS  
7TH AVE NW & 24TH ST NW  
SOUTHWEST CORNER

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11/6/2025



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB - TYPE I	LF	21
750	30	PIGMENTED IMPRINTED CONCRETE	SY	5.3
750	115	SIDEWALK CONCRETE 4 IN	SY	14
750	140	SIDEWALK CONCRETE 6 IN	SY	9
750	2115	DETECTABLE WARNING PANELS	SF	10

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	80	10

LEGEND

- CURB AND GUTTER
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- TYPE 1 CURB
- 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
- TYPE 1 CURNB/RETAINING WALL HEIGHT
- 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
- UTILITY POLE
- EXISTING TREES/SHRUBS

ABBREVIATIONS

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

City of Minot



ADA RAMP DETAILS  
7TH AVE NW & 24TH ST NW  
SOUTHEAST CORNER

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	100	1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE		35	
G20-1-60	60"x24"	ROAD WORK NEXT __ MILES		28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)		18	
G20-2-48	48"x24"	END ROAD WORK		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		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	
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)	9	15	135
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT		35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT		35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT		35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW		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	
W20-1-48	48"x48"	ROAD WORK AHEAD or __ FT or __ MILE	8	35	280
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	2	35	70
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		35	
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	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or __ FT or __ MILE		35	
W21-5-48	48"x48"	SHOULDER WORK		35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED		35	

[illegible]

## SPECIAL SIGNS

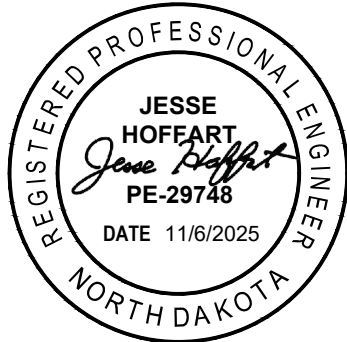
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**SPEC & CODE**

704-1000	TRAFFIC CONTROL SIGNS	TOTAL UNITS	485
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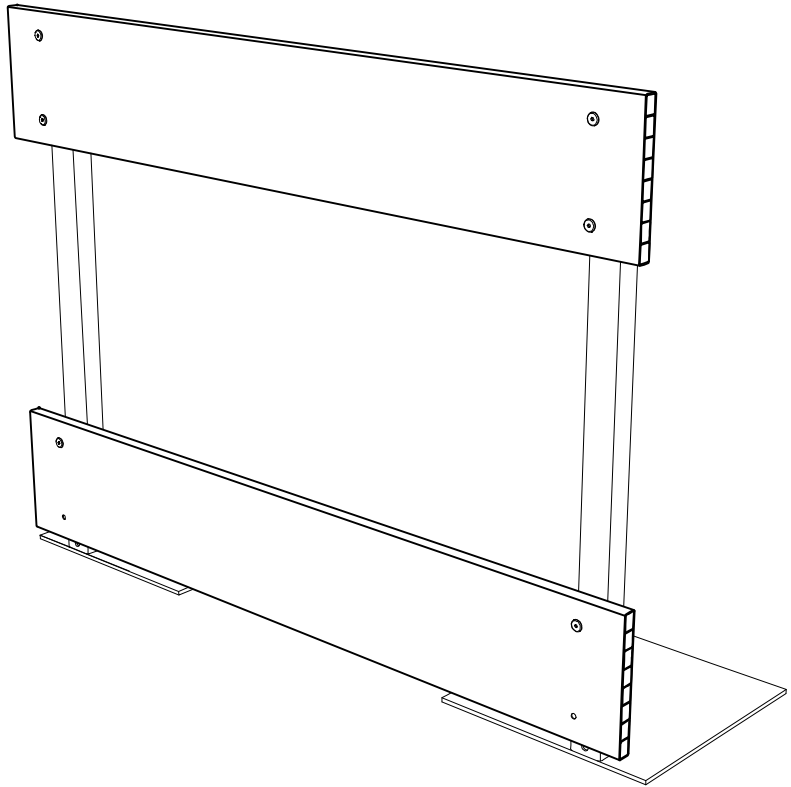
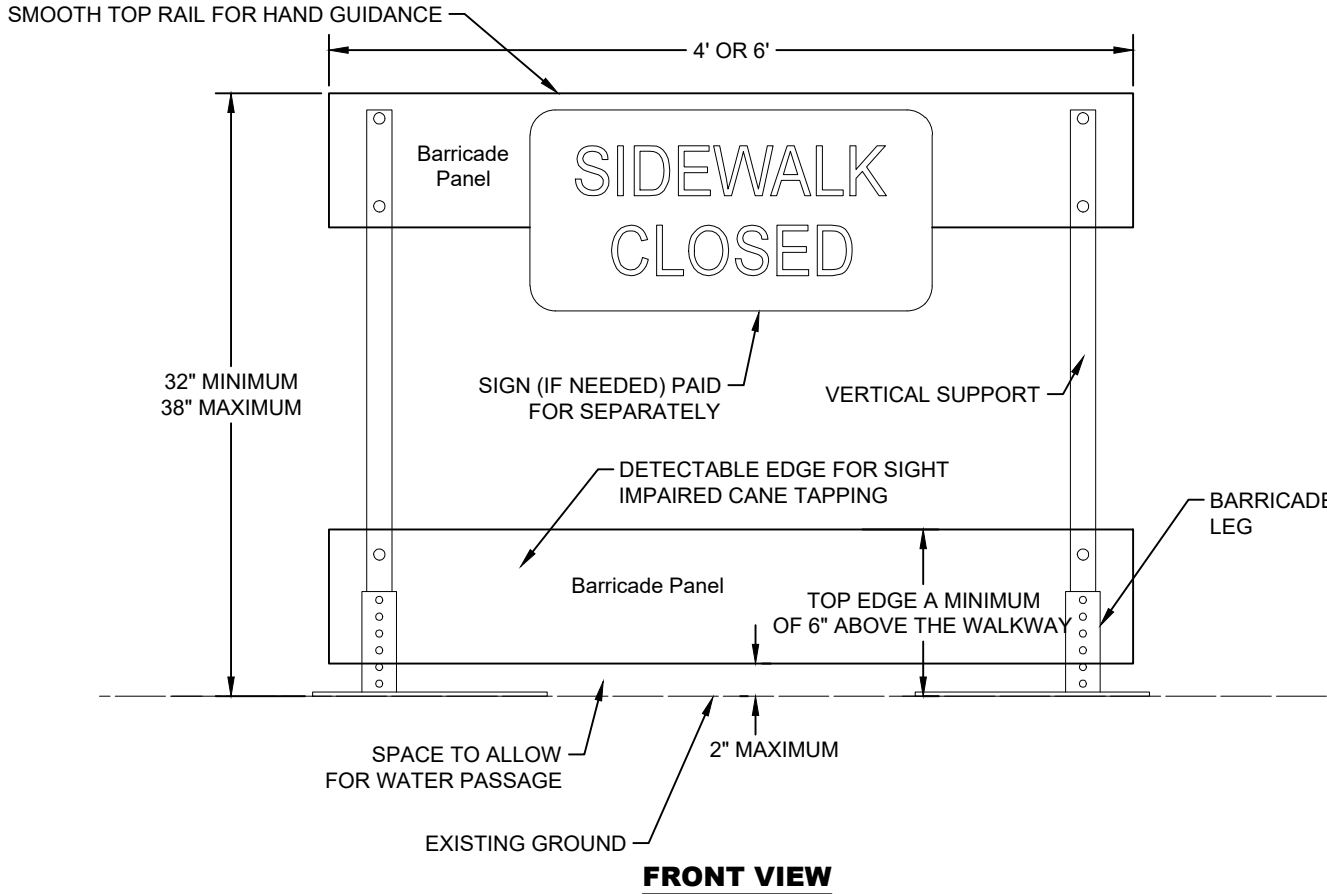
SPEC & CODE	DESCRIPTION	UNIT	QUANTITY
704-0100	FLAGGING	MHR	
704-1048	PORTABLE RUMBLE STRIPS	EACH	
704-1050	TYPE I BARRICADES	EACH	
704-1051	TYPE II BARRICADE	EA	10
704-1052	TYPE III BARRICADES	EACH	9
704-1058	PEDESTRIAN WALKWAY	LF	300
704-1060	DELINEATOR DRUMS	EACH	
704-1065	TRAFFIC CONES	EACH	
704-1067	TUBULAR MARKERS	EACH	
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	12
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/>



# TRAFFIC CONTROL DEVICES LIST

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11/6/2025



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	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 "TYPE II 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**



TRAFFIC CONTROL DEVICES  
DETAILS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	100	3

 R11-4 60"X30"	 W20-1 36"X36"	 W20-3 36"X36"	 PORTABLE MOUNT SYMBOL	 TYPE III BARRICADE SYMBOL
 TYPE II BARRICADE SYMBOL				

**City of Minot**

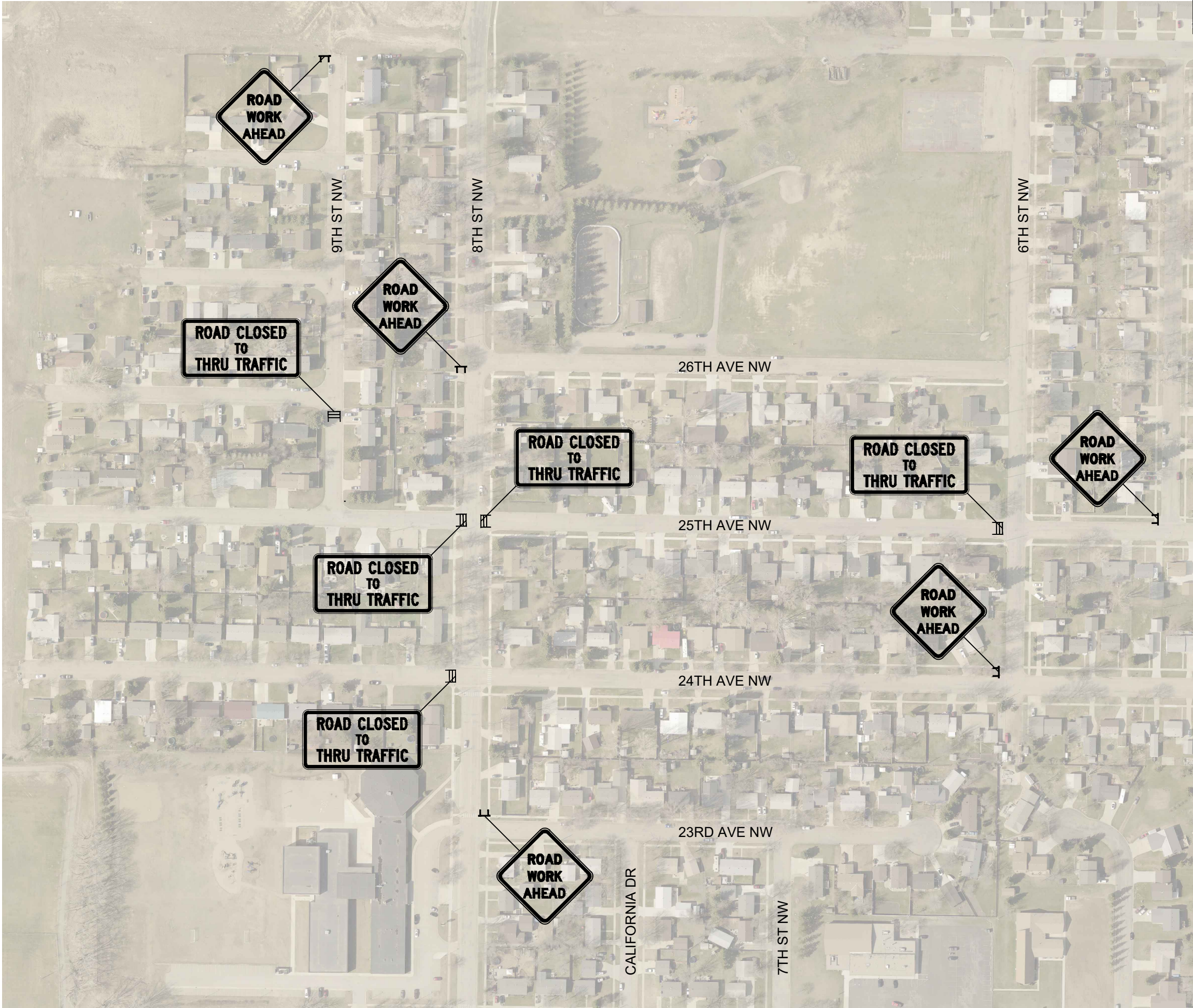
REGISTERED PROFESSIONAL ENGINEER

JESSE  
HOFEART  
*Jesse Hofsart*  
PE-29748  
DATE 11/6/2025

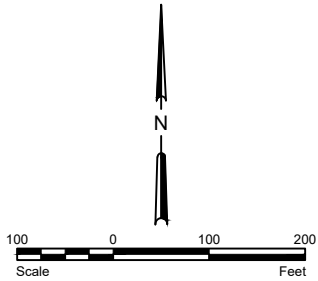
NORTH DAKOTA

TRAFFIC CONTROL PLAN  
LEGEND

1/6/2025 P:\PROJECTS\4823 - 2026 Lewis & Clark And Bel Air SRTS\Design\Plans\4823 - 2026 Lewis & Clark And Bel Air SRTS.dwg



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	100	4

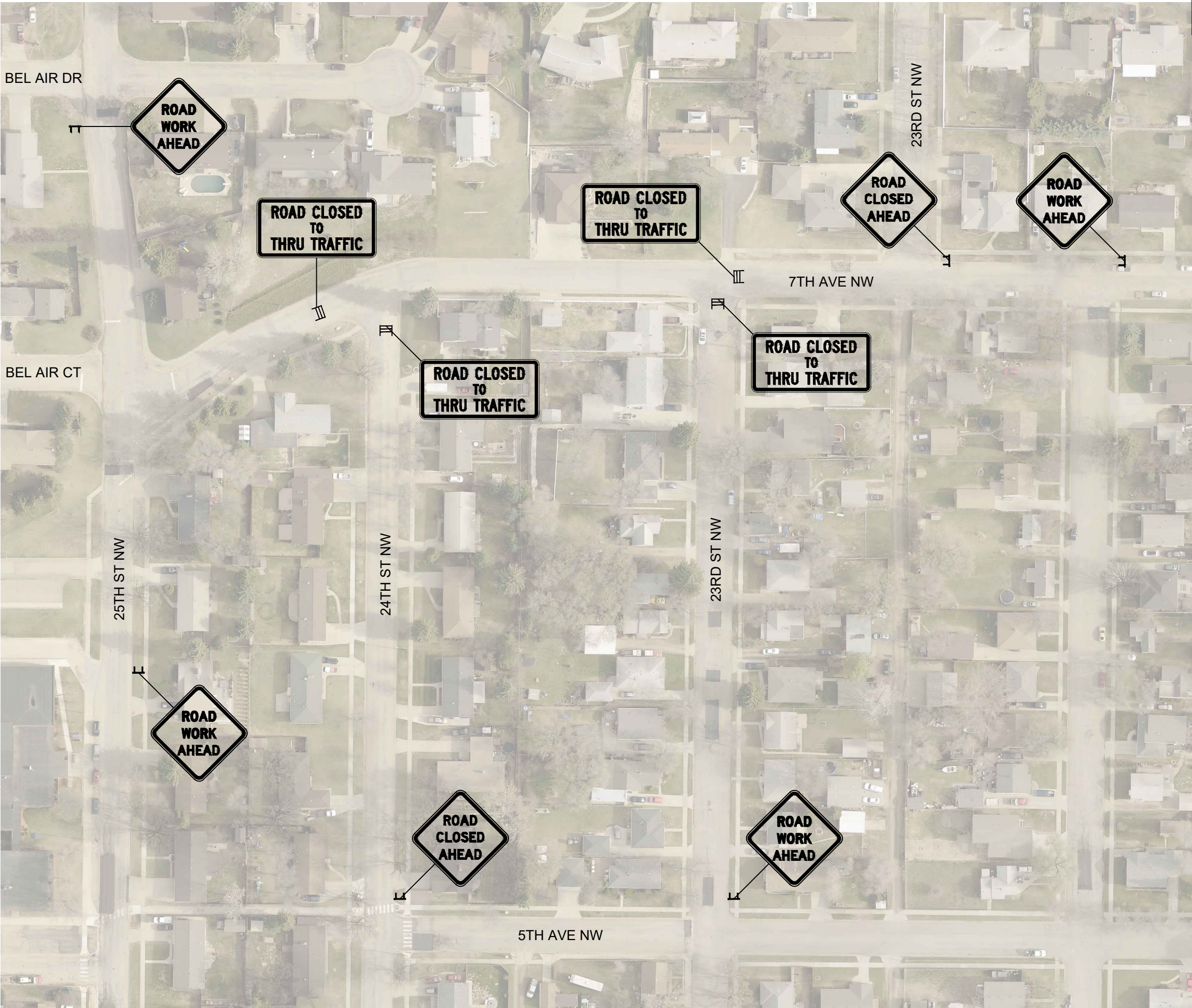


**City of Minot**

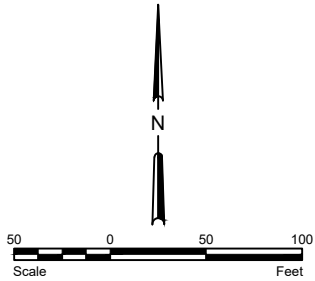


LEWIS & CLARK TRAFFIC CONTROL

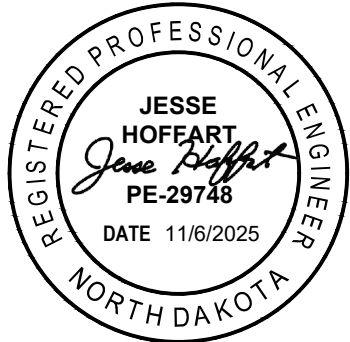
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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	100	5



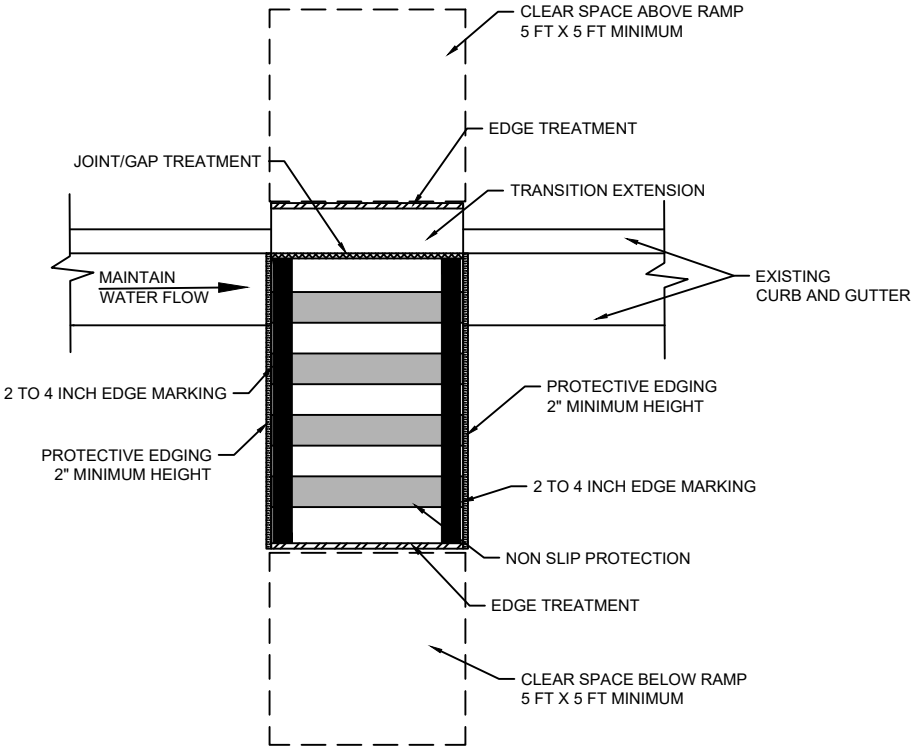
City of Minot



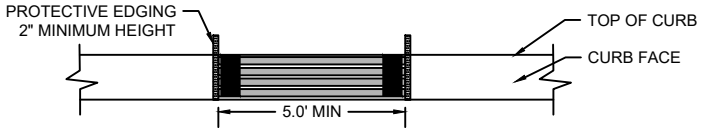
BEL AIR TRAFFIC CONTROL

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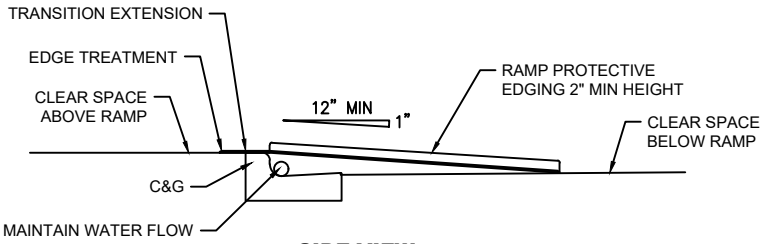
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	100	6



TOP VIEW



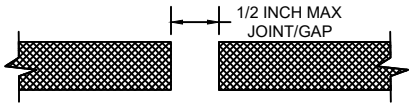
FRONT VIEW



SIDE VIEW

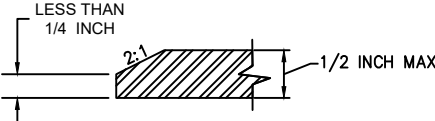
TEMPORARY PERPENDICULAR CURB RAMP

JOINT/GAP TREATMENT

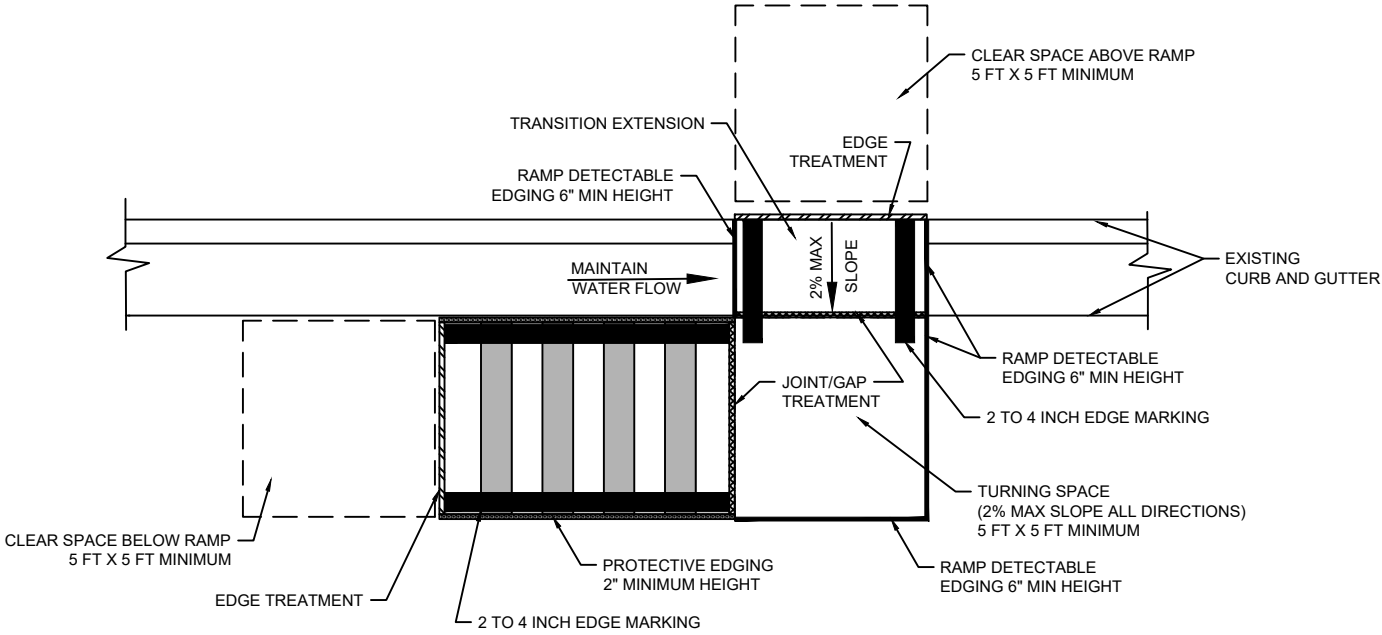


MAXIMUM WIDTH  
LATERAL JOINTS OR GAPS

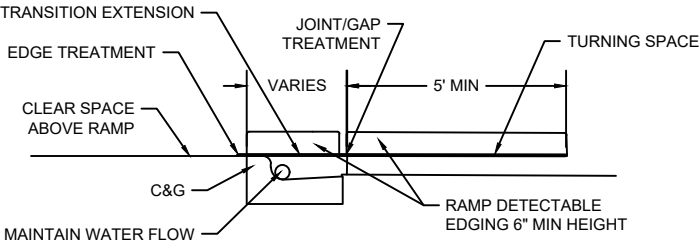
EDGE TREATMENT



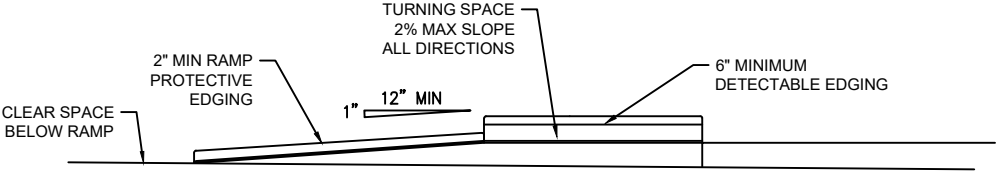
MAXIMUM SURFACE  
HEIGHT CHANGE DETAIL



TOP VIEW



SIDE VIEW



FRONT VIEW

TEMPORARY PARALLEL CURB RAMP

City of Minot

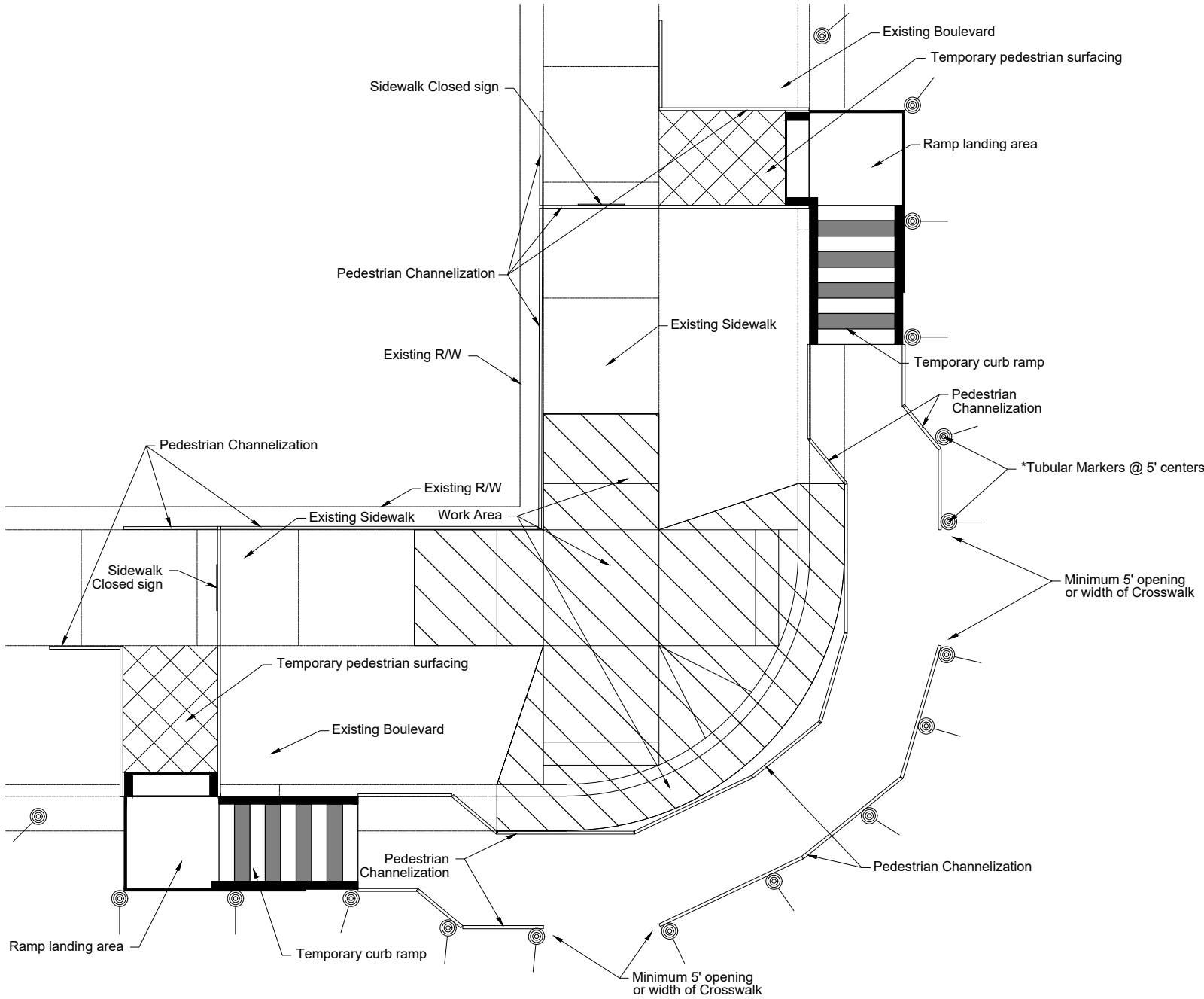


TEMPORARY CURB RAMP  
DETAILS

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11/6/2025

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ND	TAU-4-989(137)	24408	100	7

\*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(137)	24408	100	8

LEGEND

TEMPORARY CURB RAMP &  
PEDESTRIAN ROUTE LOCATION

**City of Minot**

REGISTERED PROFESSIONAL ENGINEER

JESSE  
HOFEART  
*Jesse Hofsart*  
PE-29748  
DATE 11/6/2025

NORTH DAKOTA

TEMPORARY CURB RAMP  
PEDESTRIAN ROUTE  
LOCATIONS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	100	9

LEGEND

TEMPORARY CURB RAMP &  
PEDESTRIAN ROUTE LOCATION

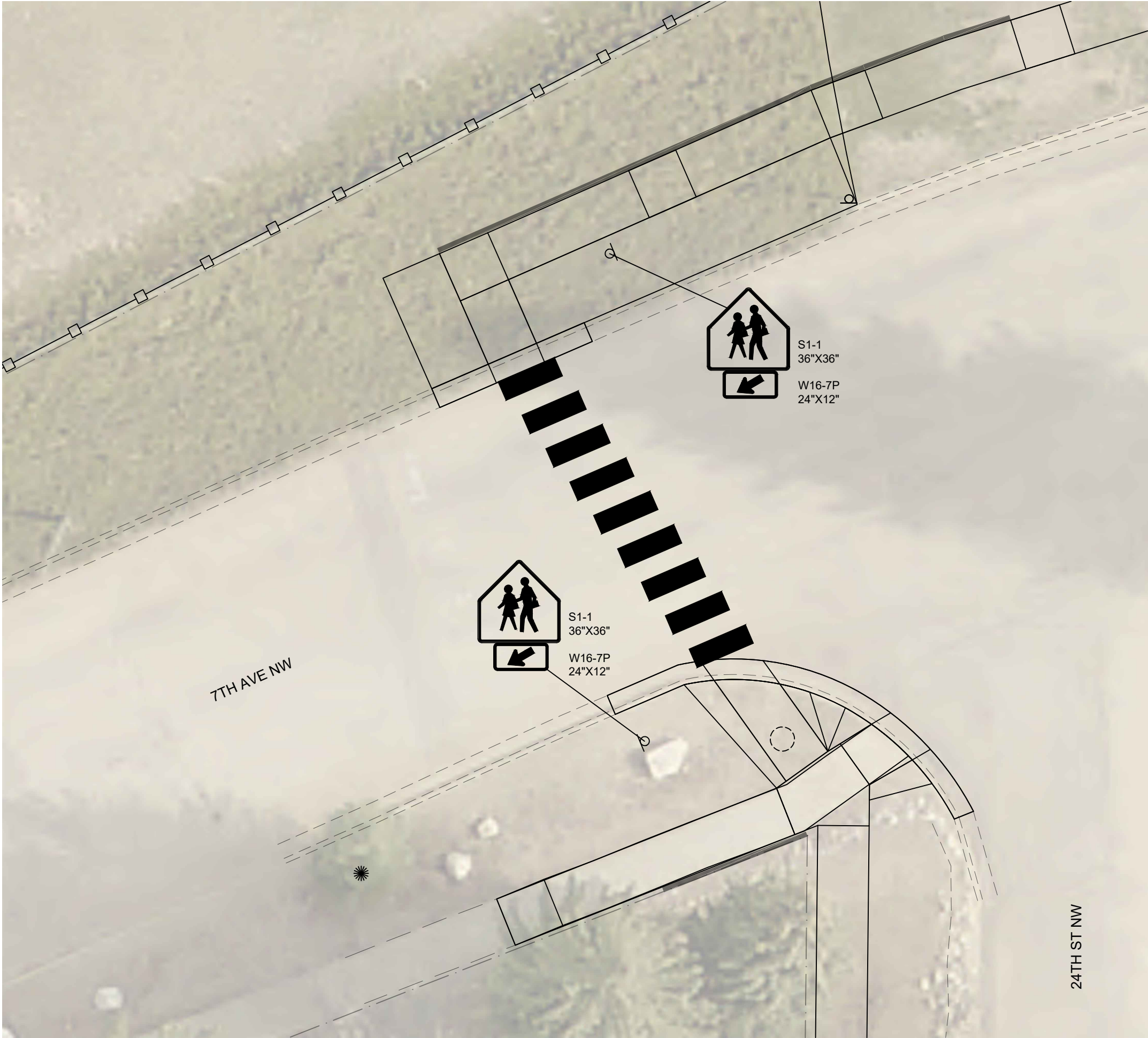
**City of Minot**

REGISTERED PROFESSIONAL ENGINEER

JESSE  
HOFEART  
*Jesse Hofsart*  
PE-29748  
DATE 11/6/2025

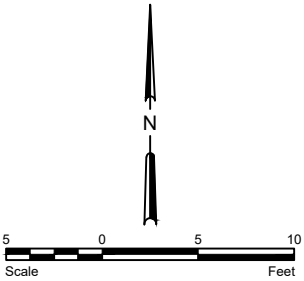
NORTH DAKOTA

TEMPORARY CURB RAMP  
PEDESTRIAN ROUTE  
LOCATIONS



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	110	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
754	110	FLAT SHEET FOR SIGNS - TYPE XI REFL SHEETING	SF	13
754	206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	14



City of Minot

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFEART

*Jesse Hoffeart*

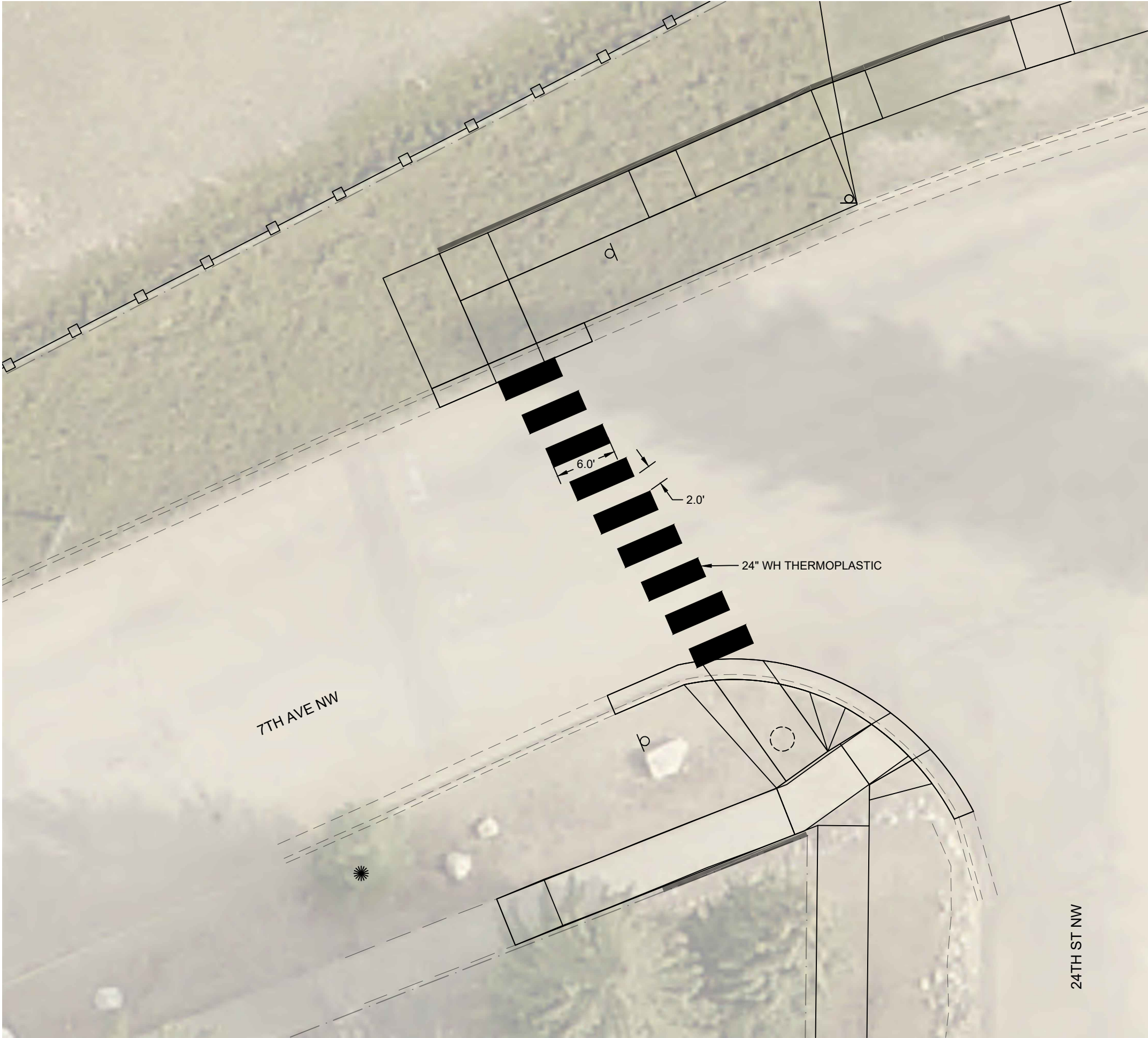
PE-29748

DATE 11/6/2025

NORTH DAKOTA

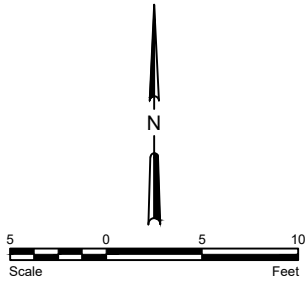
SIGNING  
NEW SIGN LOCATIONS

1/6/2025 P:\PROJECTS\4823 - 2026 Lewis & Clark And Bel Air SRTS\Design\Plans\4823 - 2026 Lewis & Clark And Bel Air SRTS.dwg



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	120	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
762	1270	PREFORMED THERMOPLASTIC PVMT MK 24 IN LINE	LF	54



**City of Minot**

REGISTERED PROFESSIONAL ENGINEER

JESSE  
HOFEART

*Jesse Hofsart*

PE-29748

DATE 11/6/2025

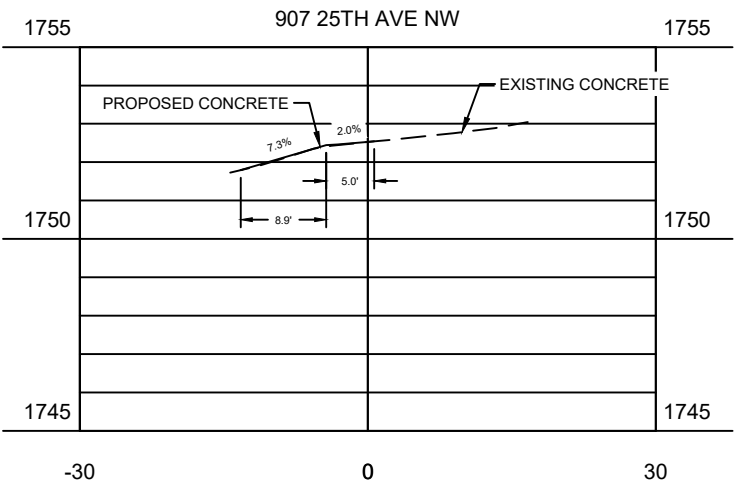
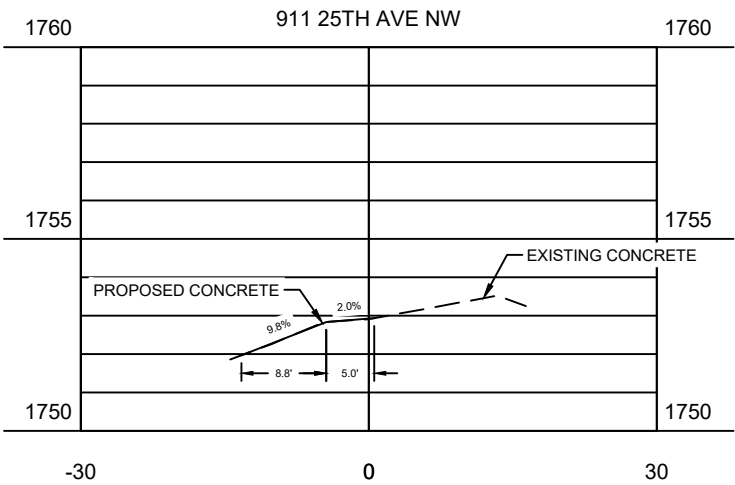
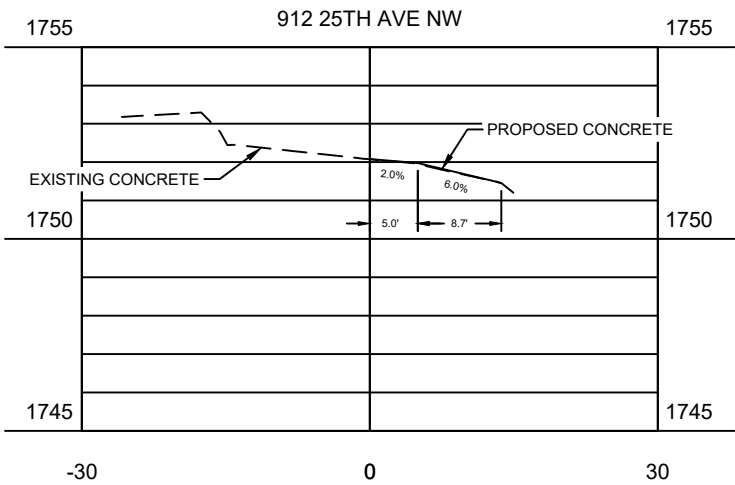
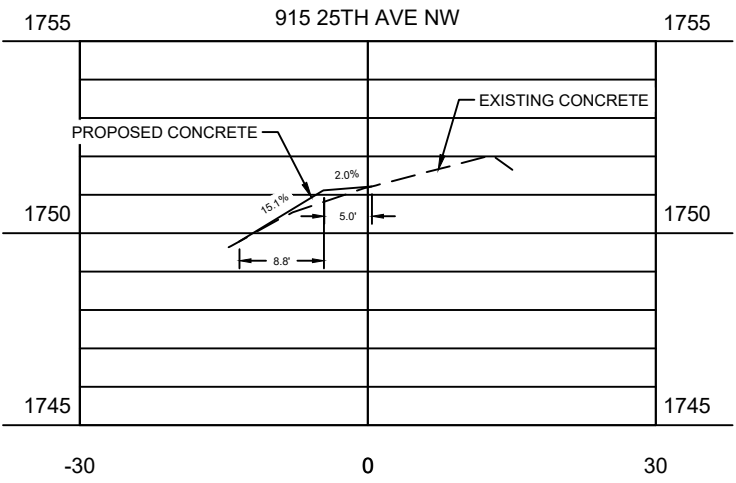
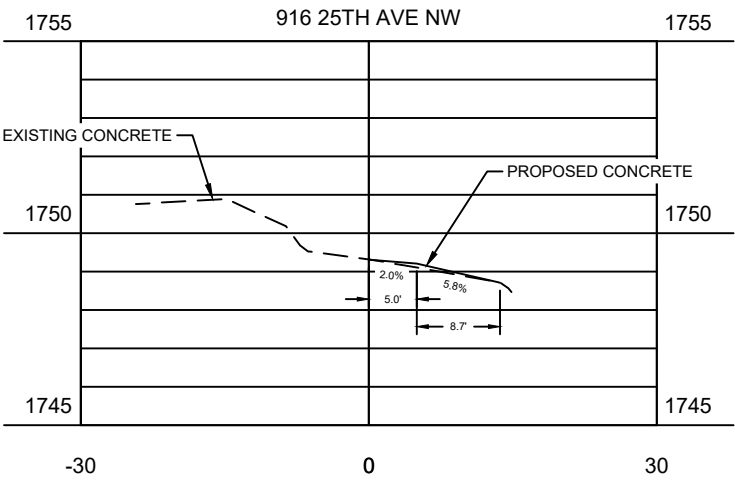
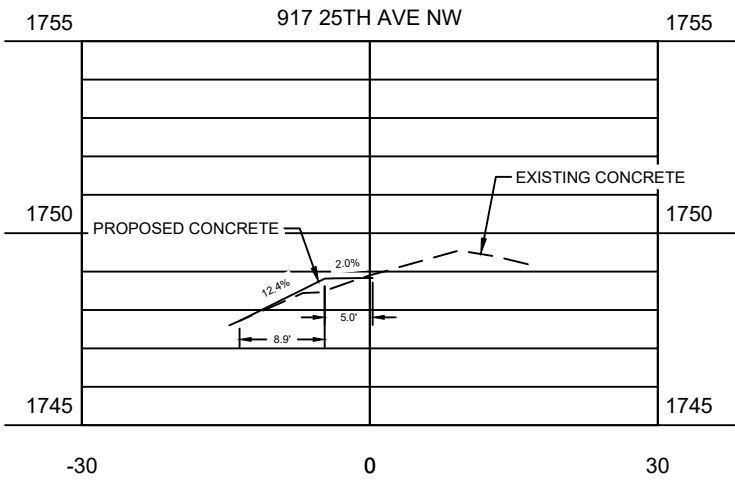
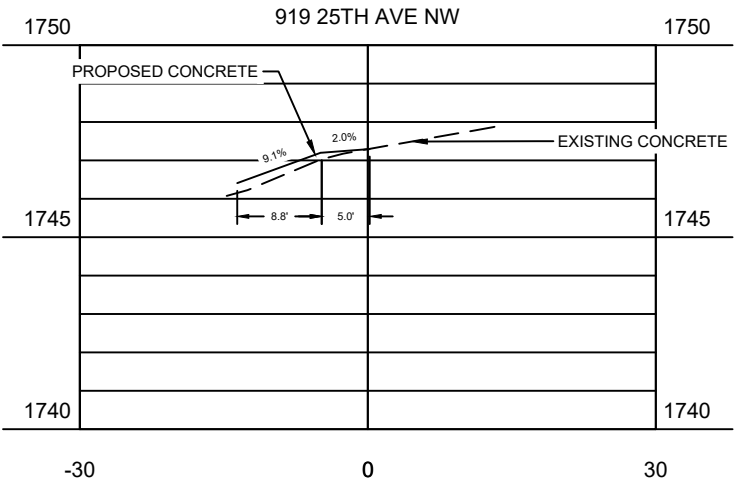
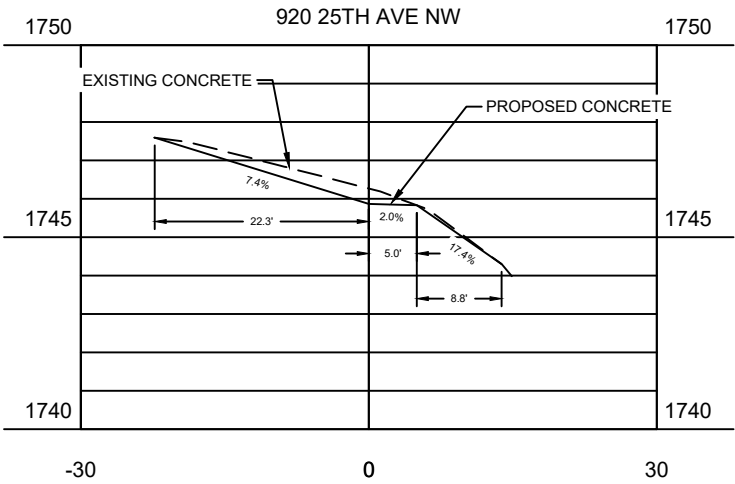
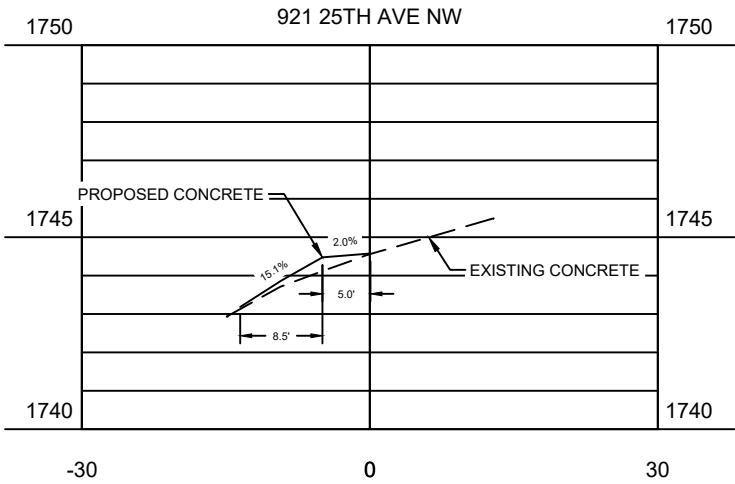
NORTH DAKOTA

PAVEMENT MARKINGS  
7TH AVE NW & 24TH ST NW

P:\PROJECTS\4823 - 2026 Lewis & Clark And Bel Air SRTS\Design\Plans\4823 - 2026 Lewis & Clark And Bel Air SRTS.dwg

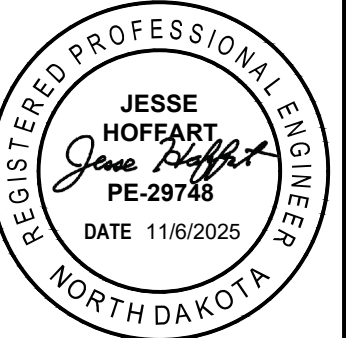
1/16/2025

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	200	1



HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 5'

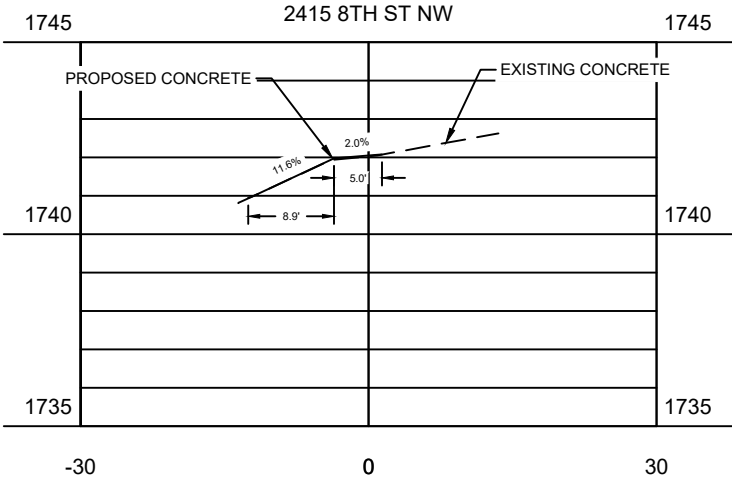
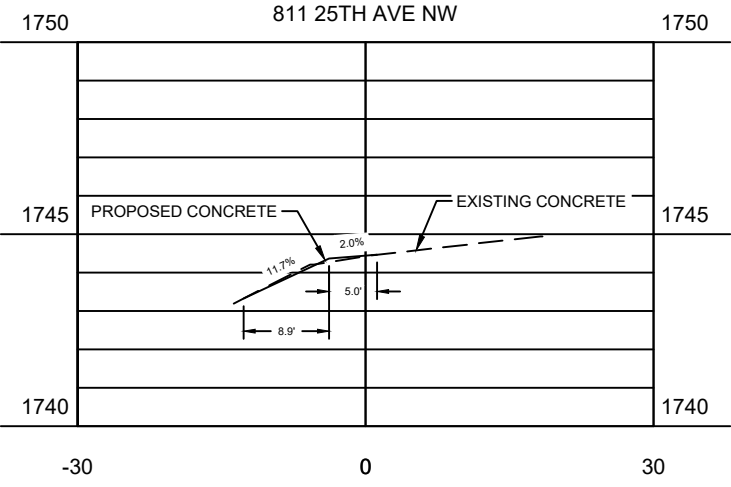
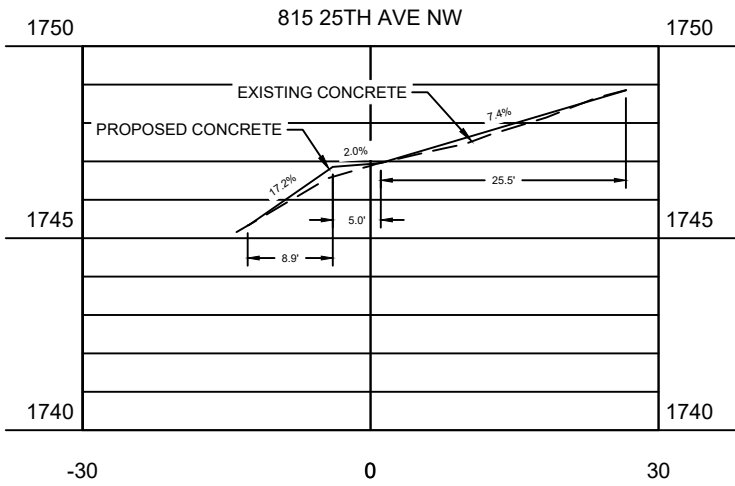
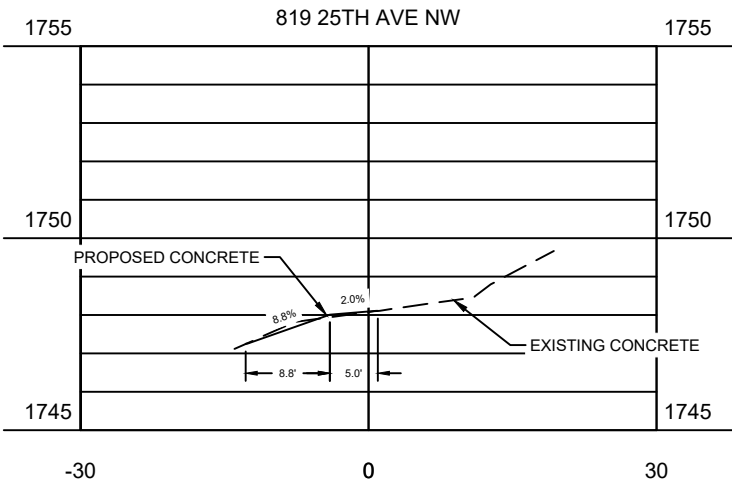
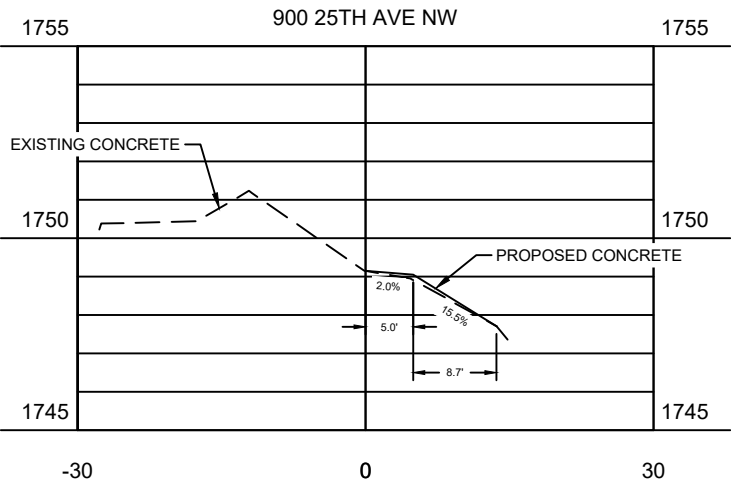
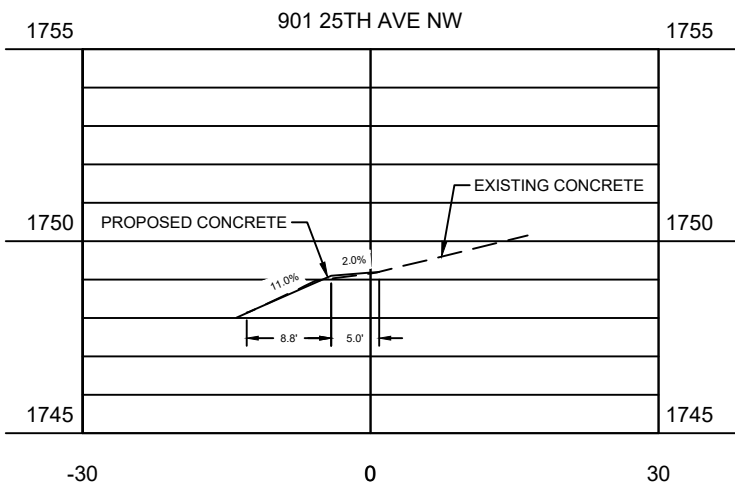
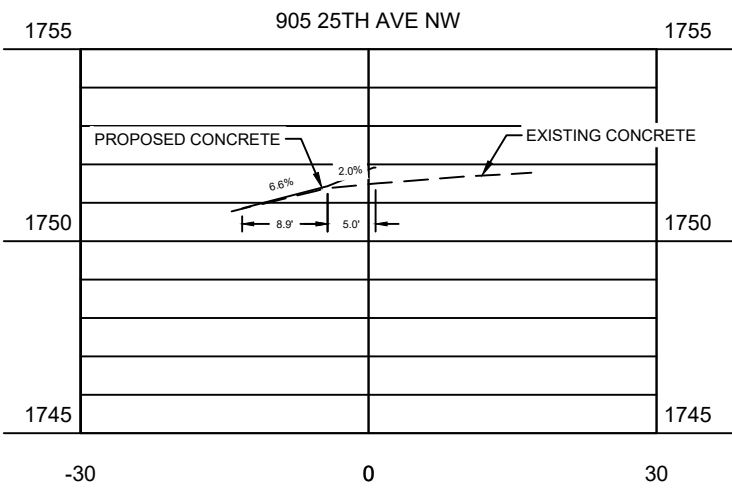
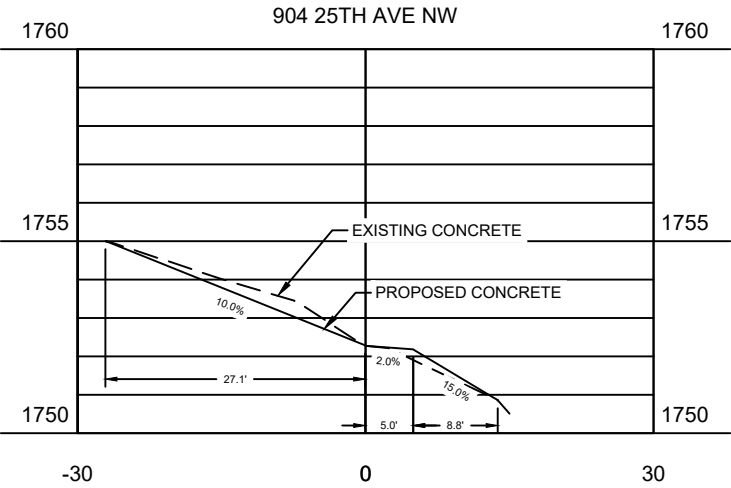
City of Minot



DRIVEWAY CROSS-SECTIONS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	200	2



HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 5'

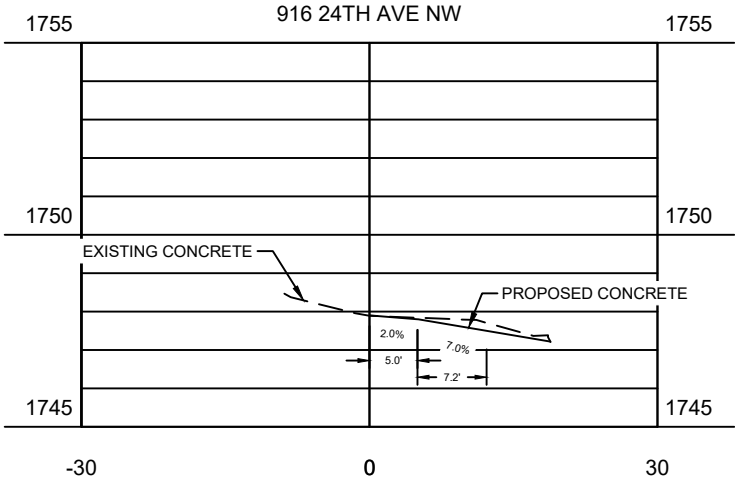
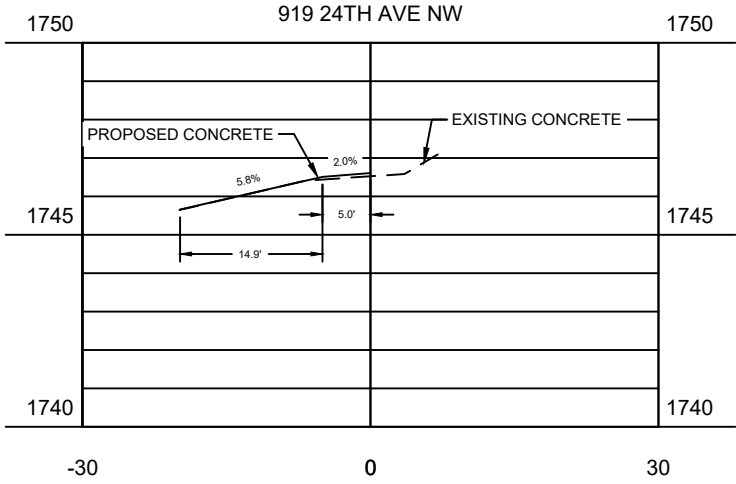
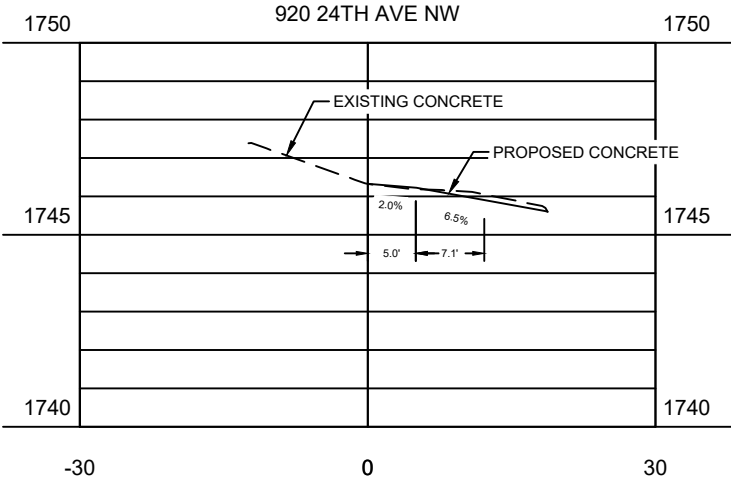
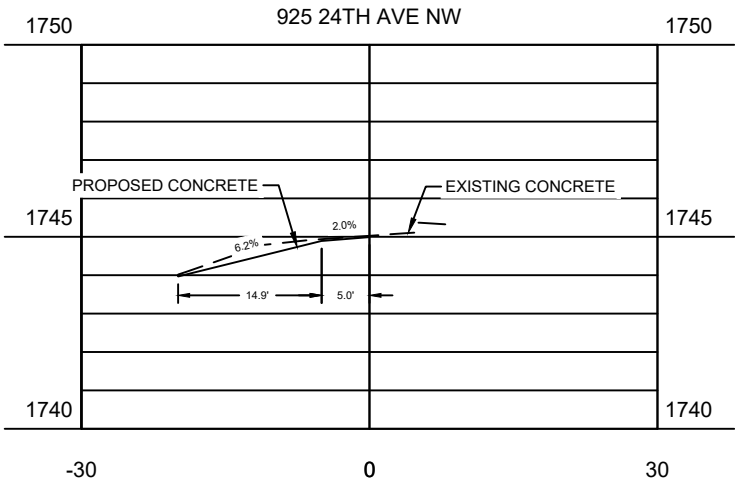
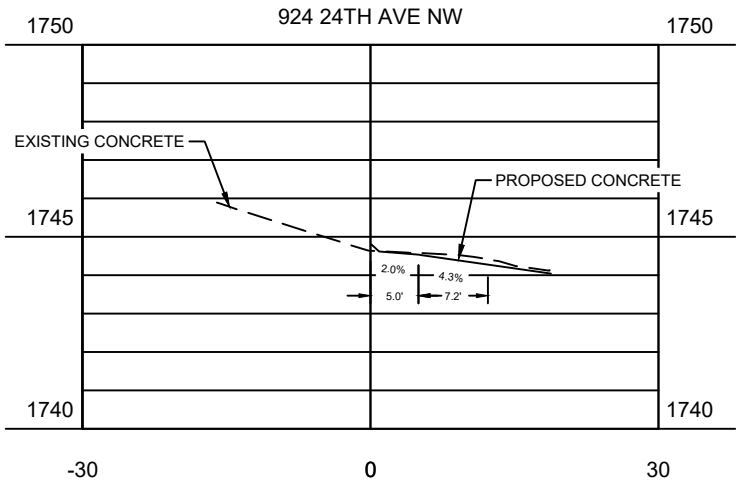
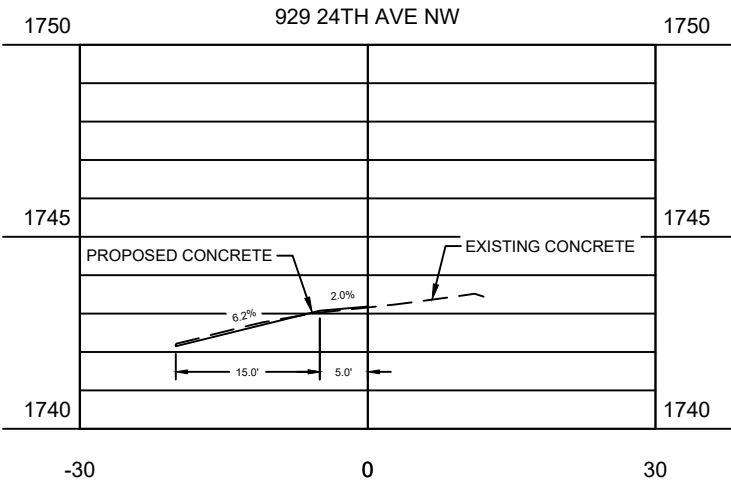
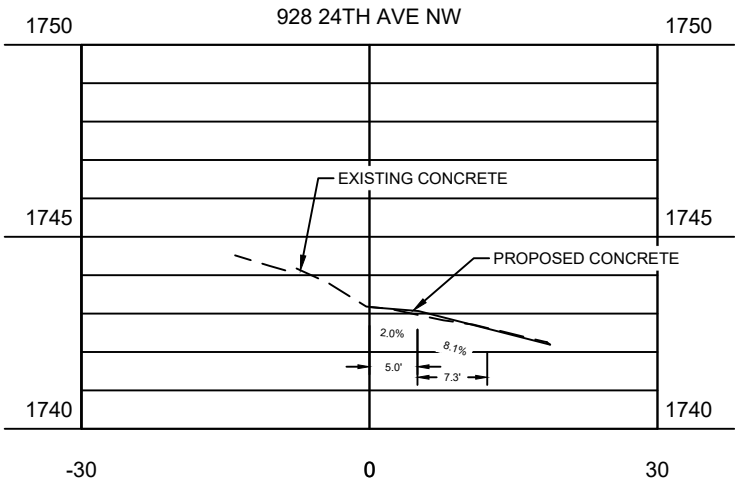
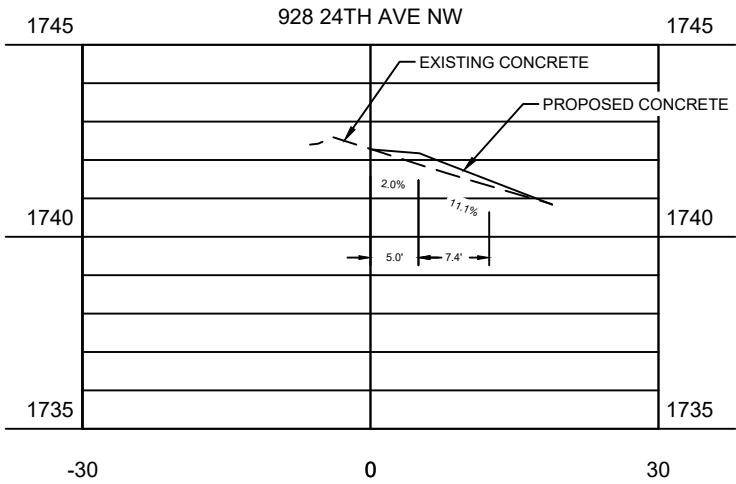
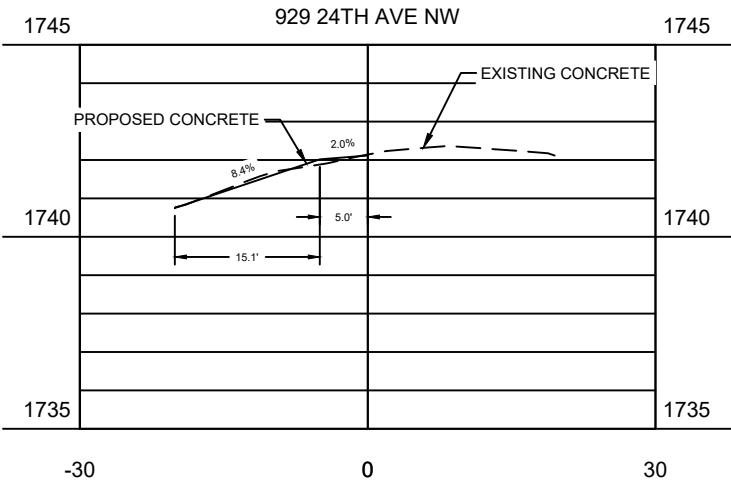
City of Minot



DRIVEWAY CROSS-SECTIONS

P:\PROJECTS\4823 - 2026 Lewis & Clark And Bel Air SRTS\Design\Plans\4823 - 2026 Lewis & Clark And Bel Air SRTS.dwg 1/16/2025

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	200	3



HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 5'

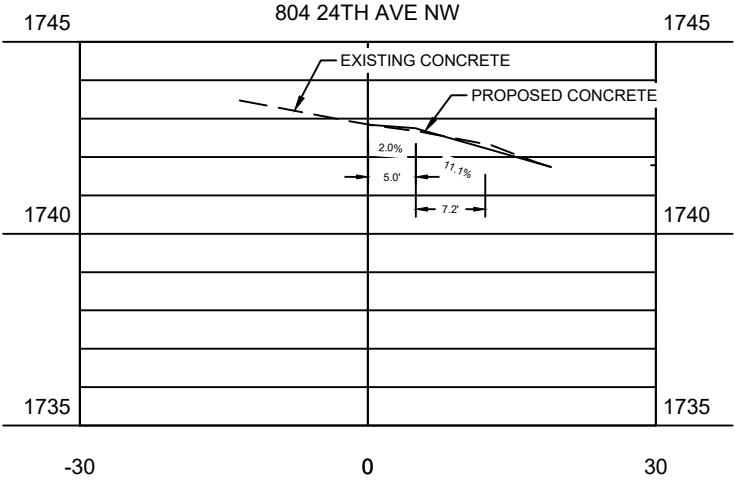
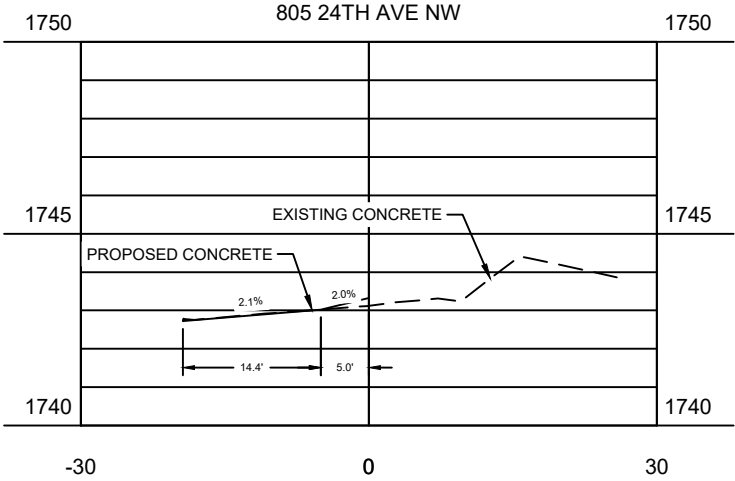
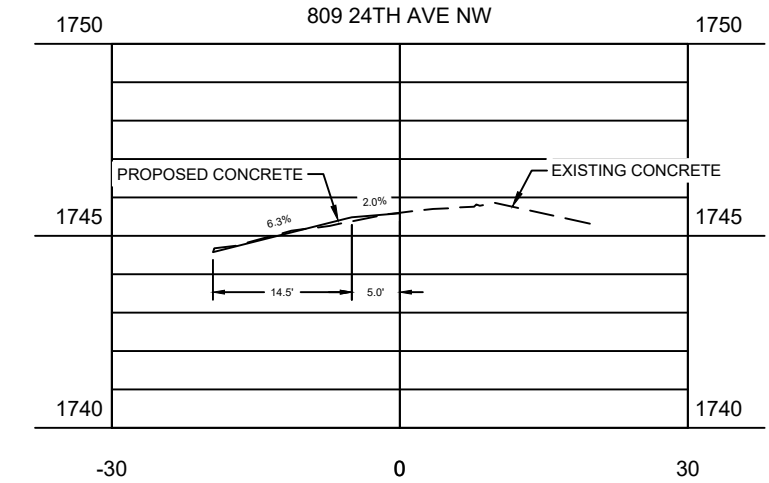
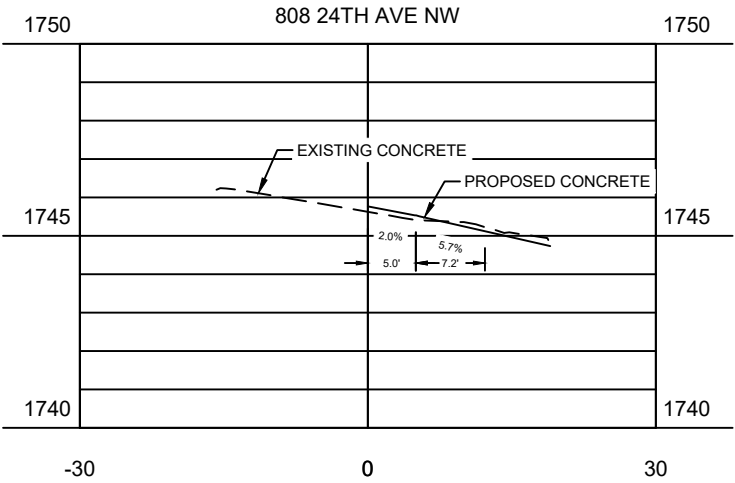
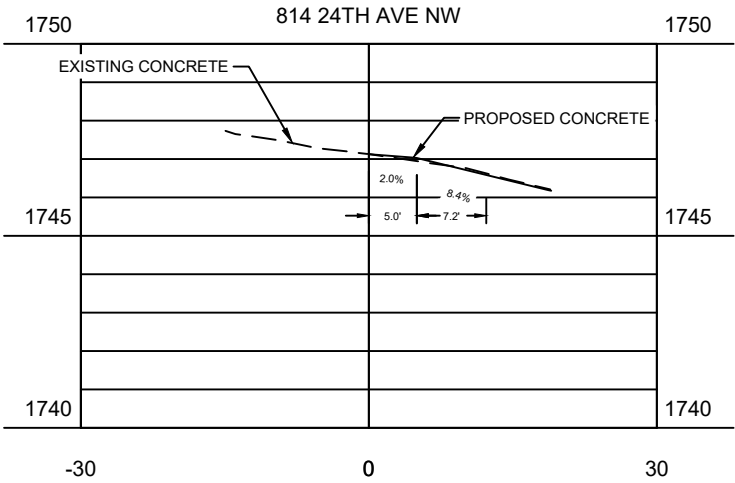
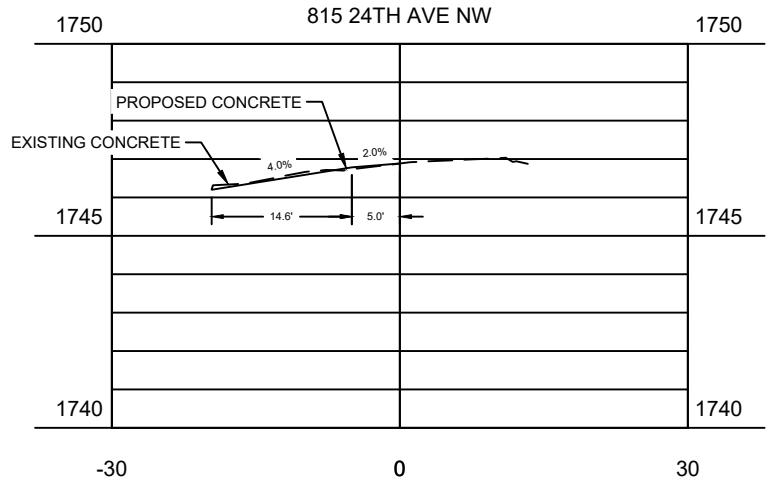
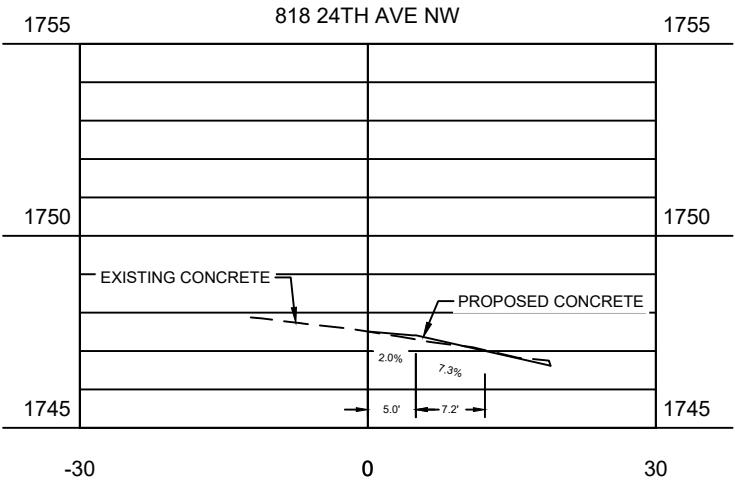
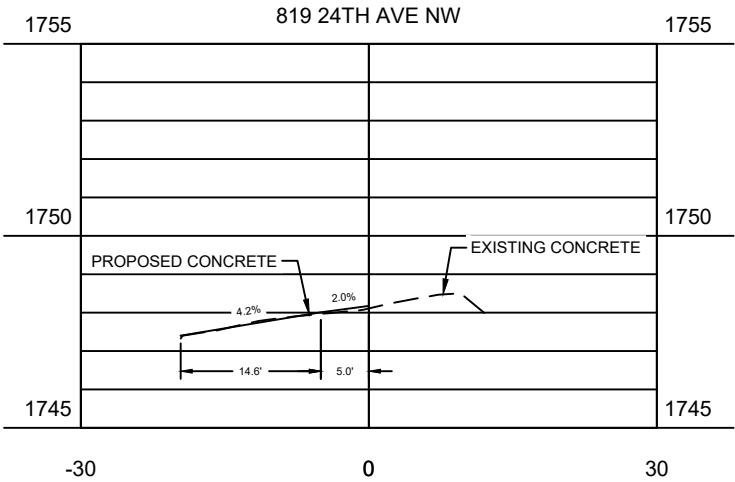
City of Minot



DRIVEWAY CROSS-SECTIONS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	200	4



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

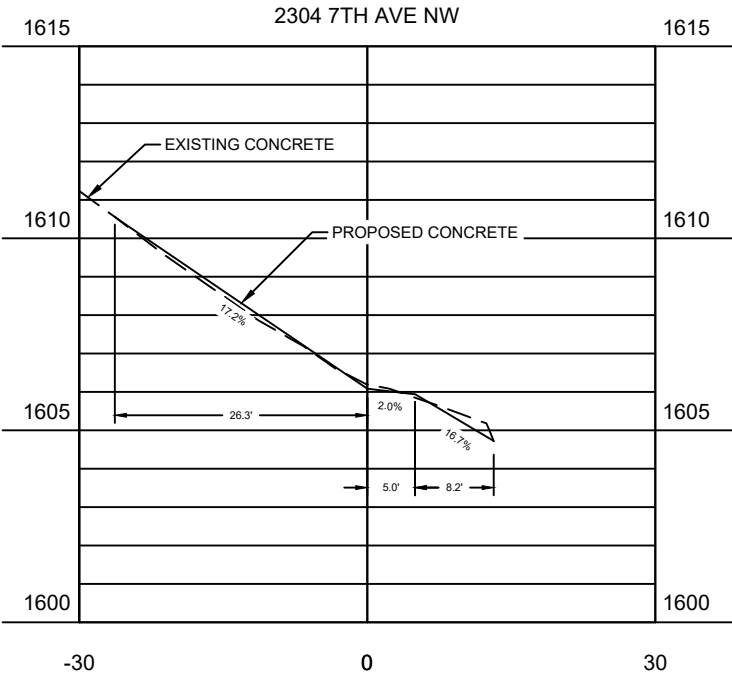
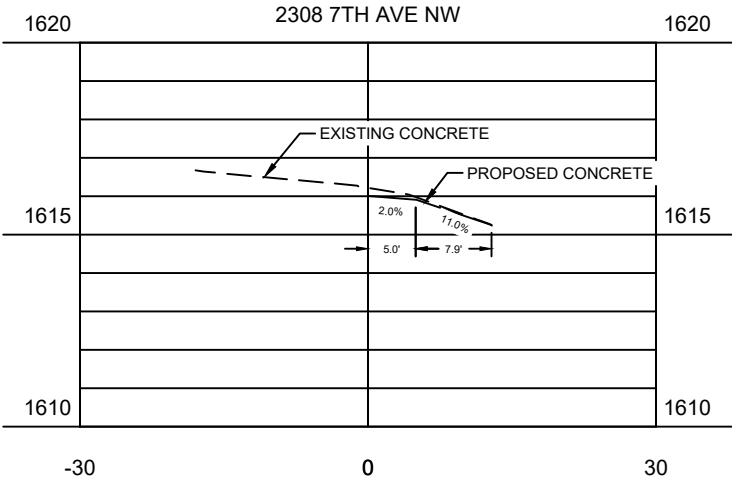
City of Minot



DRIVEWAY CROSS-SECTIONS

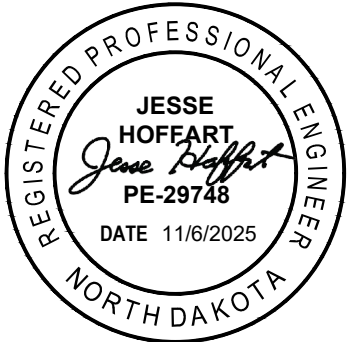
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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(137)	24408	200	5



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

**City of Minot**



DRIVEWAY CROSS-SECTIONS