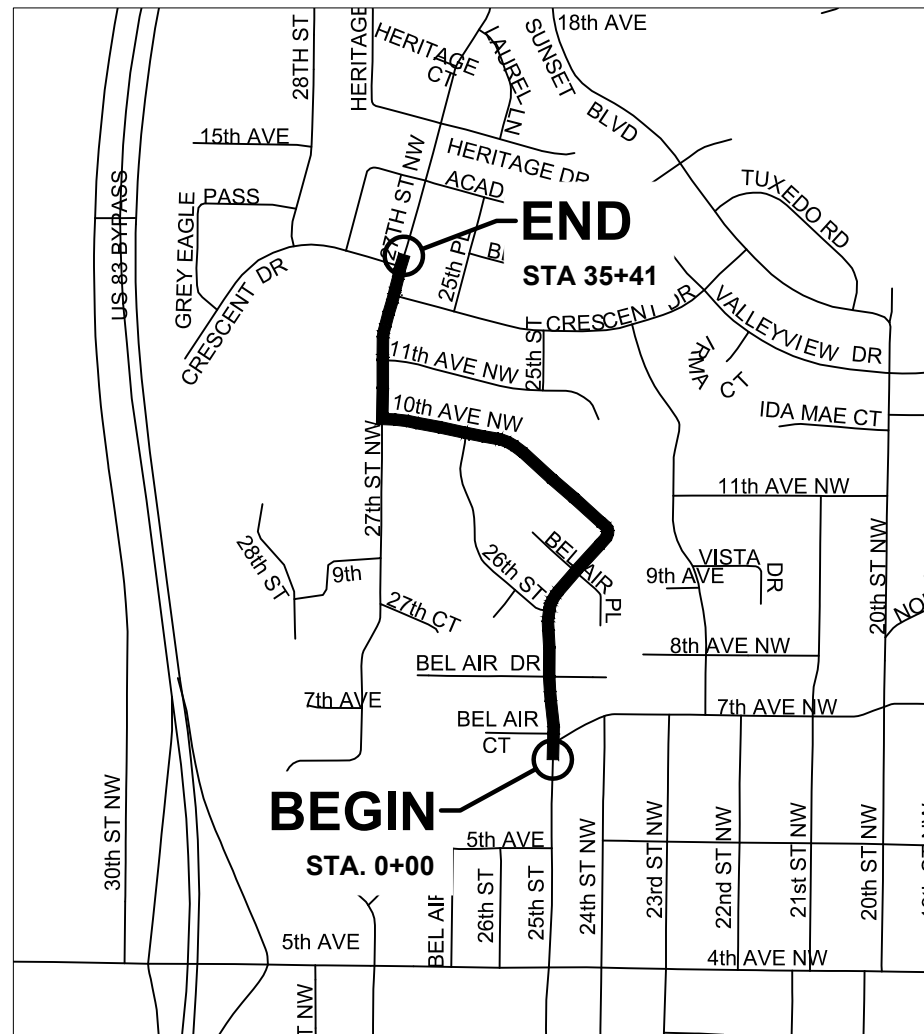


Ward County
27th Street NW, 10th Avenue NW, 25th Street NW
Hiawatha Street
Minot, ND
Bel Air & Washington Safe Routes to School
New Sidewalk, Curb Ramps, and Driveways

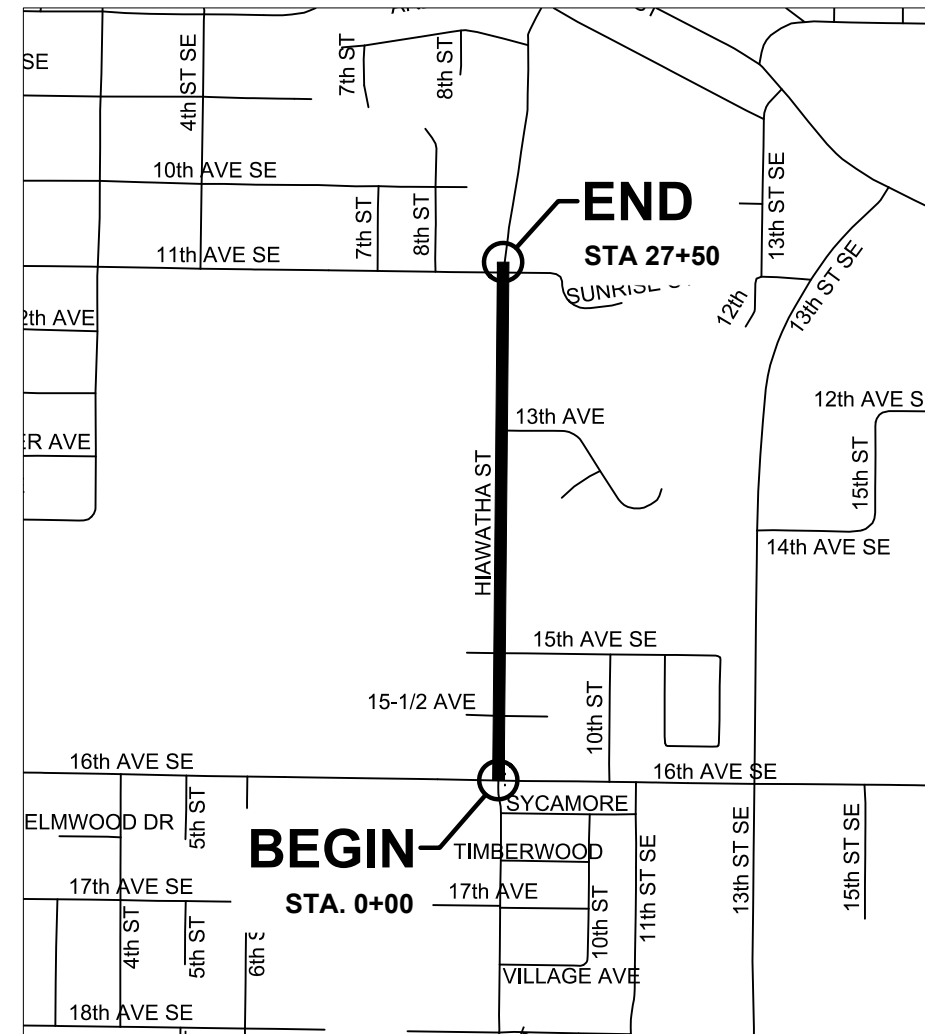
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	1	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	1	1

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	01/01/2022
Supplemental Specifications	NONE

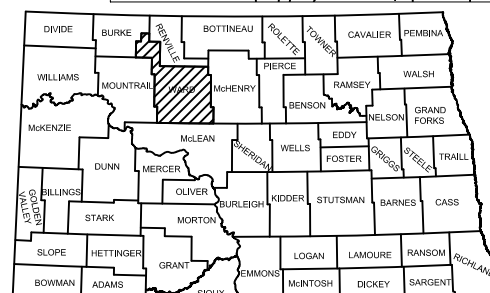
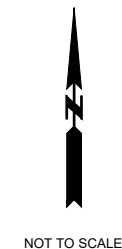
<u>PROJECT NUMBER \ DESCRIPTION</u>	<u>NET MILES</u>	<u>GROSS MILES</u>
TAU-4-989(126) Bel Air Safe Routes to School	0.67	0.67
TAU-4-989(127) Washington Safe Routes to School	0.52	0.52



TAU-4-989(126) Bel Air Safe Routes to School



TAU-4-989(127) Washington Safe Routes to School



STATE OF NORTH DAKOTA

DESIGNER
Jesse Hoffart, PE

DESIGNER
Matthew King

DESIGNER
Jesse Berg, PE

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:

12/23/2022


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

City of Minot
Engineering Department



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325(22)		CITY OF MINOT WATER SPECIFICATIONS
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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	2	1

City of Minot

Engineering Department

REGISTERED PROFESSIONAL ENGINEER

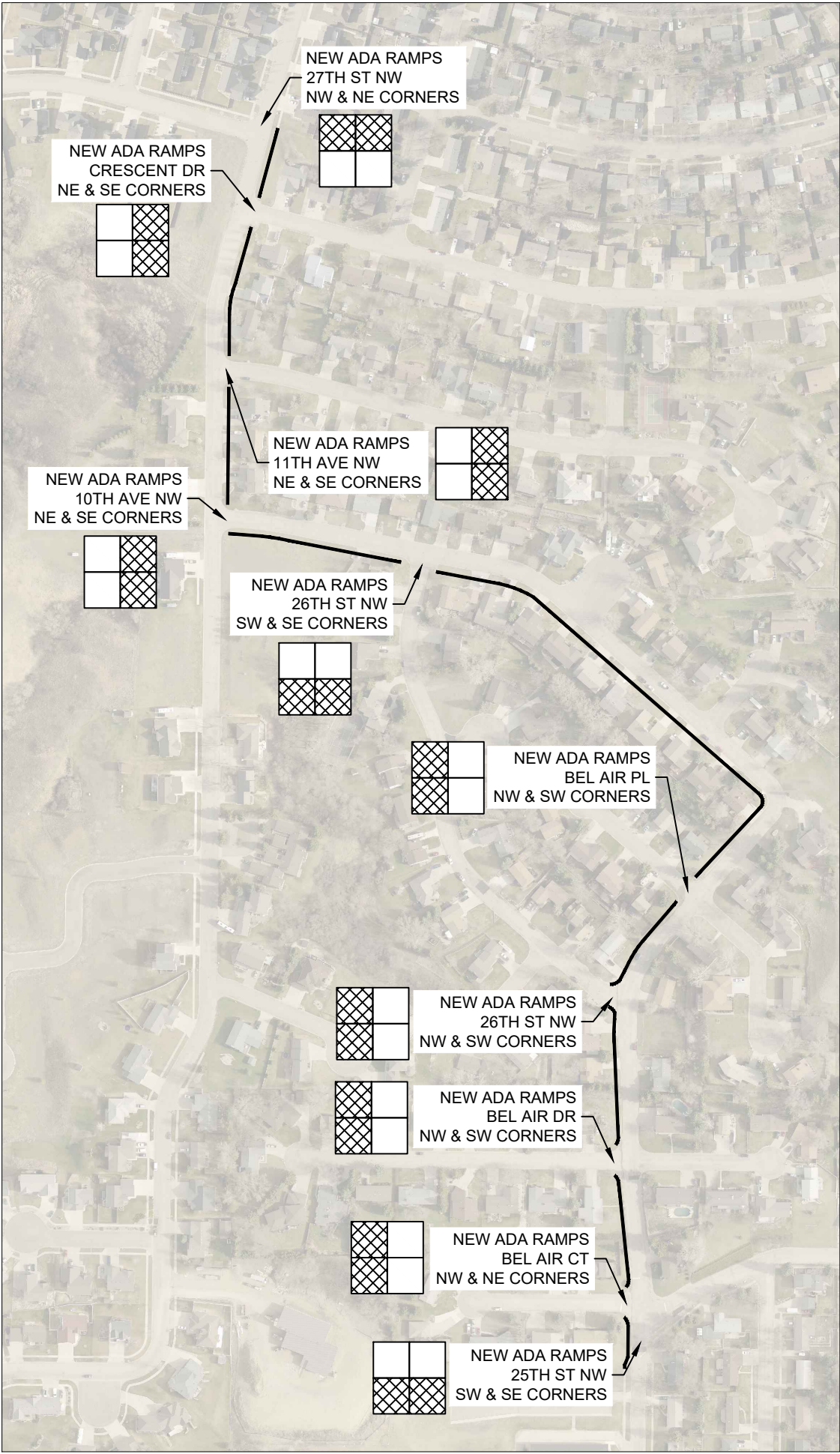
JESSE HOFFART

PE-29746

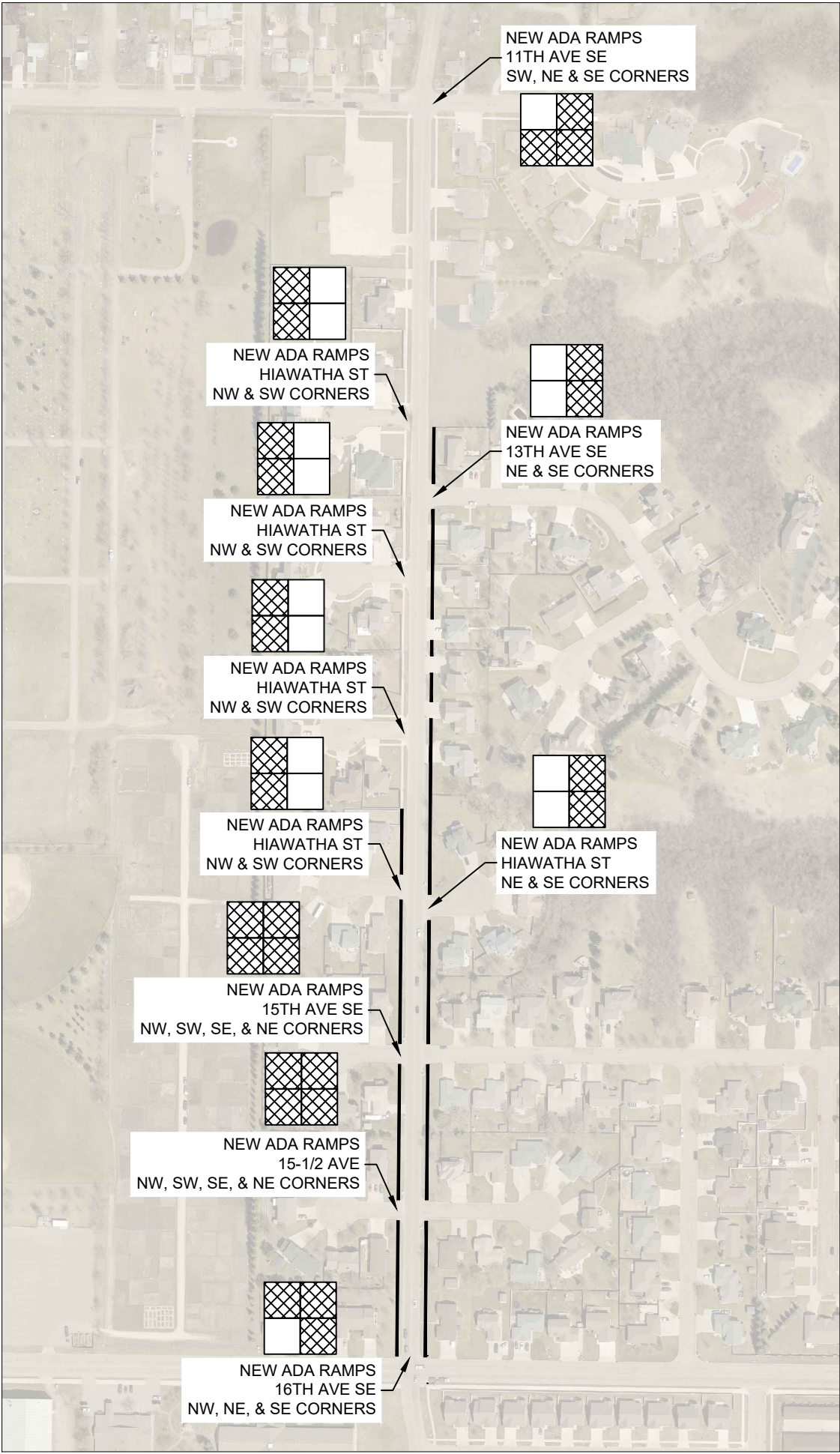
DATE 1/4/2023

NORTH DAKOTA

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TAU-4-989(126) Bel Air Safe Routes to School



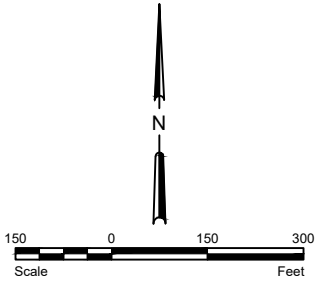
TAU-4-989(127) Washington Safe Routes to School

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ND	TAU-4-989(126)	23244	4	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	4	1

LEGEND

 ADA RAMP

 NEW SIDEWALK



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFART
PE-29746
DATE 12/23/2022
NORTH DAKOTA

SCOPE OF WORK

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1/13/2023

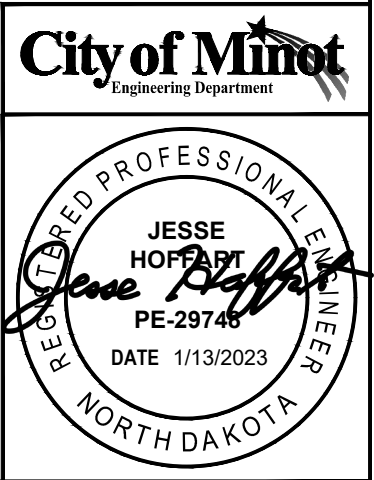
NOTES

- 100-P01 COMPLETION DATES: The overall completion date for this project will be September 15, 2023. Liquidated damages for failure to complete work by the completion date will be pursuant to standard specification 108.07.
- All work involved in Bel-Air Safe Routes to School shall have an interim completion date of August 18, 2023.
- Work identified in Phase 3 of traffic control for Bel-Air Safe Routes to School shall not begin until May 26, 2023. All specified concrete work in Phase 3 of Bel-Air traffic control has an interim completion date of August 4, 2023.
- 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. Sawing outside of these hours is only allowed after a request of a minimum of 24 hours in advance, and with written approval from the Engineer. 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 am and 7:00 pm.
- 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.
- 100-P04 MOBILIZATION: Due to the phasing of this project multiple mobilizations to and from the project site will be required. 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 Contractor's responsibility.
- 105-200 UTILITY COORDINATION: A utility coordination meeting is required.
- 107-500 PAVEMENT SWEEPING: Sweep the roadway adjacent to the construction area at the end of each day. Utilize a vacuum or pickup type sweeper.
- 107-P01 SPRINKLER SYSTEM: Any damage to sprinkler systems shall be repaired. The contractor shall work with property owners to lower/relocate lines or re-install sprinkler heads that are in the proposed concrete areas. Contractor will include all cost for repairing sprinkler systems to the "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. Provide 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.

- 108-P02 CONSTRUCTION PHASING:
- BEL-AIR SRTS: All 3 phases of traffic control for Bel-Air, shown in Section 100 Sheets 7-9, may be in place concurrently in any combination. They can also be in place sequentially if the Contractor chooses.
- WASHINGTON SRTS: Traffic control for phases 1 and 2 of Washington shown in Seciton 100 Sheets 10-12, shall never be in place at the same time, without written permission from the Engineer.
- 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. Landscaping materials and rock shall be salvaged and returned to their respective property owner and shall be considered incidental to this item. All shrubs shall be removed if they are within the sidewalk alignment. Trees along the corridor may need to be trimmed. Root balls and stumps may also need to be removed from trees that were removed by others. The engineer will mark branches to be trimmed by the Contractor. Contractor will include the cost for trimming and stump removal in the "Clearing & Grubbing" item.
- 201-P02 SALVAGE AND REINSTALL LANDSCAPING: Contractor shall reinstall salvaged landscaping materials as identified on the plans. Contractor will include the cost for salvaging and reinstalling landscaping 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 varies 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-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. Contractor responsible for any over-excavation costs that have not been approved by the Engineer.

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NOTES

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.

261-P01 WEIGHTED FIBER ROLL

- Provide materials that meet the following specifications:
 - Netting tube with wood curled excelsior and weighted inner core.
 - Roll diameter: 6 inches.
 - Weight: 8.33 Pounds per Lineal Foot
- Place weighted fiber rolls down slope from unprotected downstream areas as to provide complete protection from sediment flow.
- Remove and properly dispose of accumulated silt and debris to allow for proper function of device after every rain event, or as necessary for proper function.
- Price includes weighted fiber roll, placement, and maintenance after each rain event. All costs related to this work shall be included in the price bid for "Weighted Fiber Rolls".
- Removal of weighted fiber rolls shall be done after the up gradient surfaces are stabilized and surrounding streets and gutters are clean of debris.
- Fiber Roll should be placed to avoid being placed in the driving lane.

302-P01 AGGREGATE BASE FOR ASPHALT: Class 5 aggregate base will be placed as needed at the Engineer's discretion prior to placement of Asphalt Patching. All other aggregate for the project shall be paid per plan note 750-P03.

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

430-P02 PATCHING: Submit a mix design that meets FAA 43 PG 58S-28 for approval. The Hot Mix Asphalt used for 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 at a rate of 0.07 gal/sy undiluted.

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

704-P02 TRAFFIC CONTROL PHASING: The traffic control details, as indicated on the plans, have been developed on the basis that this project will be constructed in phases as described below. Additionally, see Construction phasing notes.

704-P03 TRAFFIC CONTROL DEVICES: The traffic control devices list has been developed using the layouts shown in the plans and the following layouts shown on the NDDOT Standard Drawings.

704-P04 PORTABLE CHANGEABLE MESSAGE SIGN: Install Portable Changeable Message Signs (PCMS) before Phase 1 work begins. Place the PCMS as indicated in Section 100 Sheet 6. Provide an operator trained in the use of the PCMS. The location and message may be modified at Engineer's discretion. The operator shall program the message within one hour of the Engineer's request to change the message.

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: Include all costs for furnishing, installing, cleaning, removing sediment, maintaining, and replacing damaged devices in the price bid for "Inlet Protection-Special." Keep all devices in place until all pavements are placed or upon approval from the Engineer. Include all costs for removing inlet protection at the completion of the project in the price bid for "Remove Inlet Protection-Special."

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."

724-P01 REMOVE HYDRANT: Removed hydrants shall be salvaged and returned to the City of Minot.

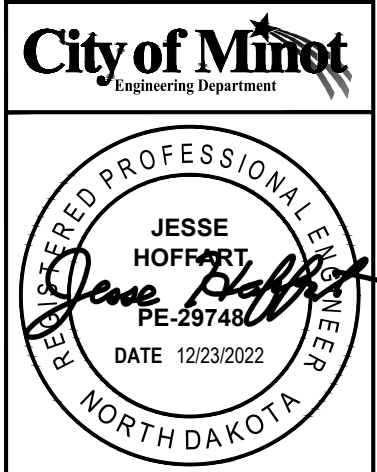
724-P02 REPLACE VALVE BOX TOP SECTION: Replace the top section of gate valve box up to 3 feet in depth. Remove existing clay material and fill excavated area with Class 5 Aggregate. This item shall include excavation/removal/disposal of excess clay material, and the placement/compaction of new aggregate. Include all materials and labor associated with this work in the price bid for "Remove & Replace Gate Valve Box."

748-P01 CURB-TYPE 1: The height and length 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-P02 REINFORCING STEEL, DOWEL BARS, AND TIE BARS: All reinforcing steel, dowel bars, and tie bars shall be epoxy coated.

748-P03 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.

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NOTES

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-P04 CURING: All surfaces shall be coated with membrane curing compound within 30 minutes of finishing and shall be applied in 2 different directions perpendicular to each other. Applications shall not be more than 30 minutes apart.

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 deviation from specified lines and grades or design curvature of concrete edges in excess of ¼ inch, measured with a 10-foot straight edge, will be considered unacceptable.
4. Any surface area holding 1/8 inch deep or greater will be considered unacceptable.
5. Any concrete deemed unacceptable by the Engineer shall be removed and replaced at the Contractor's cost.

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 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 using any size coarse aggregate specified in Section 802.01.C.2, "Coarse Aggregate."

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-P03 BASE AGGREGATE: Provide aggregate needed to grade sidewalk meeting specifications of "Aggregate Base Course CL 5". Include all costs associated with aggregate in the price bid for Aggregate Base Course CL 5."

750-P04 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 "Landing 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-P05 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-P06 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 K. Expansion joints shall be ½ inch wide with epoxy coated smooth dowels greased for debonding placed at specified spacing.

750-P07 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" Gate 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."

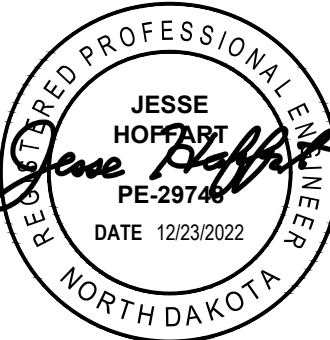
750-P08 BACKFILLING: Perform backfilling operations no sooner than 72 hours after placement of new concrete. Any damage during backfilling operations is the responsibility of the Contractor. Blend the existing topsoil adjacent to the sidewalk and or curb & gutter to eliminate any steep slopes or vertical edges. 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. Blend the existing topsoil adjacent to the sidewalk and/or curb & gutter to eliminate any steep slopes or vertical edges. Any excess topsoil will become property the Contractor and must be removed from the project site. Any needed topsoil must be imported to the project if necessary.

750-P09 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.

754-P01 PEDESTRIAN/SCHOOL CROSSING SIGNS: The pedestrian, school crossing sign, and associated auxiliary signs shall have a fluorescent yellow-green background with black letters and border.

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City of Minot
Engineering Department



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NOTES

- 766-P01 MAILBOX RESET: Install or maintain temporary mailboxes. The affected property owners and the US Postal Service will need to be notified of the new mailbox locations. The “RESET MAILBOX” bid item includes moving the mailbox to its temporary location and resetting the mailbox in the new location. This will include removal of the existing concrete base and installation of a new concrete base as required by the US Postal Service. All cost associated with the above work shall be included in the price bid for “RESET MAILBOX”.
- 770-P01 RELOCATE LIGHT STANDARD: Light standards that are being relocated should be removed with care by Contractor. Contractor shall be responsible for repairing any damages to light poles that occur during relocation of light standard.
- 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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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
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City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

PE-29745

DATE 12/23/2022

NORTH DAKOTA

NOTES

SPEC	CODE	DESCRIPTION	UNIT	PCN 23244 BEL-AIR AMOUNT	PCN 23245 WASHINGTON AMOUNT	TOTAL AMOUNTS
103	100	CONTRACT BOND	L SUM	0.5	0.5	1
201	330	CLEARING & GRUBBING	L SUM	0.5	0.5	1
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	1525	617	2142
202	130	REMOVAL OF CURB AND GUTTER	LF	669	632	1301
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	847	118	965
202	174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	1	38	39
203	103	COMMON EXCAVATION - TYPE C	CY	1017	372	1389
203	119	TOPSOIL-IMPORTED	CY	1645	968	2613
251	300	SEEDING CLASS III	ACRE	2.05	1.21	3.26
253	200	HYDRAULIC MULCH	SY	9872	5810	15682
261	200	WEIGHTED FIBER ROLLS	LF	240	0	240
261	201	REMOVE WEIGHTED FIBER ROLLS	LF	240	0	240
302	120	AGGREGATE BASE COURSE CL 5	TON	1057	623	1680
430	2000	PATCHING	TON	207	50	257
702	100	MOBILIZATION	L SUM	0.5	0.5	1
704	1000	TRAFFIC CONTROL SIGNS	UNIT	606	577	1183
704	1051	TYPE II BARRICADE	EA	5	0	5
704	1052	TYPE III BARRICADE	EA	5	9	14
704	1058	PEDESTRIAN WALKWAY	LF	0	724	724
704	1060	DELINEATOR DRUMS	EA	0	38	38
704	1067	TUBULAR MARKERS	EA	100	33	133
704	2108	TEMPORARY CURB RAMP	EA	0	14	14
708	1540	INLET PROTECTION-SPECIAL	EA	1	15	16
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	1	15	16
714	9771	UNDERDRAIN PIPE PVC NON-PERFORATED 6 IN	LF	13	0	13
722	6140	ADJUST GATE VALVE BOX	EA	2	5	7
724	270	REMOVE GATE VALVE & BOX	EA	0	1	1
724	275	REMOVE & REPLACE GATE VALVE BOX	EA	0	2	2
724	300	GATE VALVE & BOX 6IN	EA	1	1	2
724	411	6IN HYDRANT	EA	1	3	4
724	430	REMOVE HYDRANT	EA	1	3	4
724	810	WATERMAIN 6IN PVC	LF	4	28	32
724	944	CONNECTION TO EXISTING MAIN	EA	0	4	4
724	1035	SPRINKLER RELOCATION	L SUM	0.5	0.5	1
748	100	CURB & GUTTER	LF	686	632	1318
748	520	CURB-TYPE I	LF	487	195	682
748	1030	VALLEY GUTTER 72 IN	SY	210	37	247
750	30	PIGMENTED IMPRINTED CONCRETE	SY	131	75	206
750	115	SIDEWALK CONCRETE 4 IN	SY	1575	1596	3171
750	140	SIDEWALK CONCRETE 6 IN	SY	364	237	601
750	1000	DRIVEWAY CONCRETE	SY	1123	293	1416
750	2115	DETECTABLE WARNING PANELS	SF	317	386	703
754	110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	12	12.5	24.5
754	593	RESET SIGN SUPPORT	EA	9	4	13
762	1307	PREFORMED PATTERNED PVMT MK 6 IN LINE-GROOVED	LF	62.7	298.1	360.8
762	1325	PREFORMED PATTERNED PVMT MK 24 IN LINE-GROOVED	LF	15.1	192	207.1
766	120	RESET MAILBOX	EA	3	0	3
770	4540	RELOCATE LIGHT STANDARD	EA	2	3	5
770	4548	RELOCATE PULL BOX	EA	0	2	2
930	9543	RETAINING WALL	SF	759	0	759

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	8	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	8	1

City of Minot

Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

Jesse Hoffart

PE-29746

DATE 1/4/2023

NORTH DAKOTA

ESTIMATED QUANTITIES

1/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

BASIS OF ESTIMATE

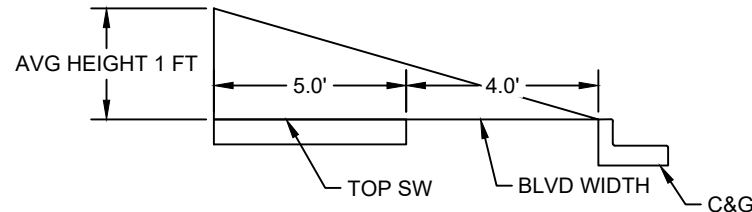
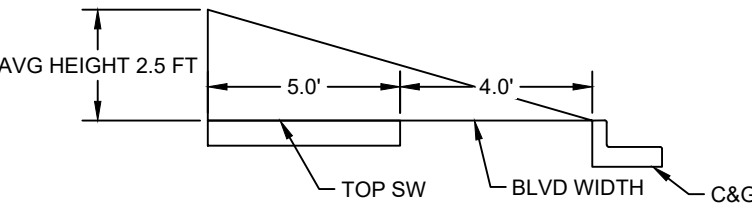
TOPSOIL-IMPORTED
Total area of the Seeding Area (2.05 Acres) * 43,560 SF/Acre * Assumed Average thickness of topsoil needed to be placed in seeding area (3/12FT) * 1 CY/27 CF= 827 CY

CLASS 5

Valley Gutter (210 SY) * 8 IN Deep * 1 FT/12 IN * 1 YD/3 FT * 1.875 Tons/CY	87.5	TONS
Sidewalk 4" (1,544 SY) * 4 IN Deep * 1FT/12 IN * 1 YD/3 FT * 1.875 Tons/CY	321.7	TONS
Sidewalk 6" (364 SY) * 6 IN Deep * 1FT/12 IN * 1 YD/3 FT * 1.875 Tons/CY	113.7	TONS
Driveway 6" (1,123 SY) * 6 IN Deep * 1FT/12 IN * 1 YD/3 FT * 1.875 Tons/CY	350.9	TONS
C&G (686 FT Length * 2.5 FT Wide) * 7 in Deep * 1 FT/12 IN * 1 CY/27 CF * 1.875 Tons/CY	69.5	TONS
Type 1 Curb <24" (645 FT Length * 1.66 FT Wide) * 7 IN Deep * 1 FT/12 IN * 1 CY/27 CF * 1.875 Tons/CY	24.8	TONS
Type 1 Curb <24" Backfill & Frontfill (645 FT Length * 1.5 SF) * 1 CY/27 CF * 1.875 Tons/CY	67.2	TONS
Type 1 Curb >24" (55 FT Length * 3.33 ft Wide) * 6 IN Deep * 1 FT/12 IN * 1 CY/27 CF * 1.875 Tons/CY	6.4	TONS
Type 1 Curb >24" Backfill & Frontfill (55 FT Length * 4 SF) * 1 CY/27 CF * 1.875 Tons/CY	15.3	TONS
TOTAL =	1057	TONS

PATCHING (HOT MIX ASPHALT)
Total area for estimated patching area (8,392 SF) * Desired thickness of asphalt section (4/12 FT) * Asphalt unit weight (148 LB/CF) * 1/2000 TON/LB = 207 TONS

COMMON EXCAVATION-TYPE C

Valley Gutter (210 SY) * 14 IN Deep * 1 FT/12 IN * 1 YD/3 FT	81.7	CY
Sidewalk 4" (1,544 SY) * 8 IN Deep * 1FT/12 IN * 1 YD/3 FT	343.1	CY
Sidewalk 6" (364 SY) * 12 IN Deep * 1FT/12 IN * 1 YD/3 FT	121.3	CY
Driveway 6" (1,123 SY) * 6 IN Deep * 1FT/12 IN * 1 YD/3 FT	187.2	CY
C&G (686 FT Length * 2.5 FT Wide) * 7 in Deep * 1 FT/12 IN * 1 CY/27 CF	37.1	CY
Type 1 Curb (645 FT Length * 1.66 FT Wide) * 28 IN Deep * 1 FT/12 IN * 1 CY/27 CF	89.2	CY
Type 1 Curb (645 FT Length * 1 FT Height) * 9 FT Wide * 1/2 * 1 CY/27 CF 	107.5	CY
Retaining Wall (55 FT Length * 3.33 FT Wide) * 48 IN Deep * 1 FT/12 IN * 1 CY/27 CF	27.1	CY
Retaining Wall (55 FT Length * 2.5 FT Height) * 9 FT Wide * 1/2 * 1 CY/27 CF 	22.9	CY
TOTAL =	1017	CY

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ND	TAU-4-989(126)	23244	10	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	10	1

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOPFART
PE-29746

DATE 12/23/2022

NORTH DAKOTA

BASIS OF ESTIMATE
BEL AIR

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BASIS OF ESTIMATE

COMMON EXCAVATION-TYPE C

Total area of new 4" sidewalk (13165 SF) * 8/12 FT depth * 1/27 CY/CF = 325 CY
Total area of new 6" sidewalk (1249 SF) * 1/27 CY/CF = 47 CY
325 + 47 = 372 CY

TOPSOIL-IMPORTED

Total area of planned maximum topsoil area needed = 52290 SF * 0.5 ft thickness = 26145 CF
26145 CF * 1/27 CY/CF = 968 CY

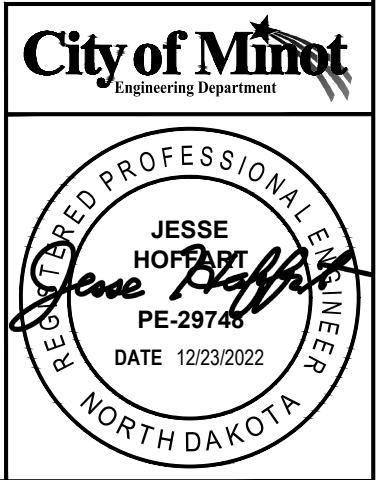
PATCHING

(Total area for estimated patching area (1007 SF) + Estimated additional area for contingency (993 SF)) * Desired thickness of asphalt section (4/12 FT) * Asphalt unit weight (148 LB/CF) * 1/2000 TON/LB = 50 TONS

AGGREGATE BASE COURSE CL 5

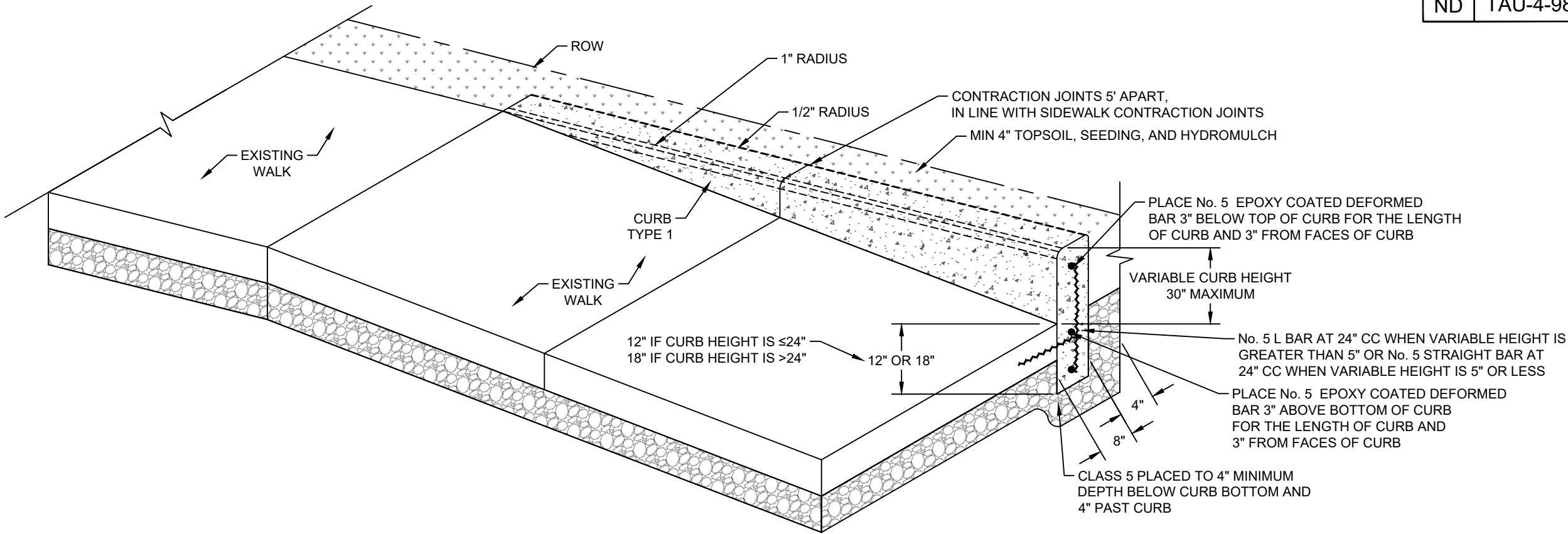
Total area for Valley gutter (37 SY) * base thickness (8/36 Y) = 8.22 CY
Total area for 4" sidewalk (1596 SY) * base thickness (4/36 Y) = 177.33 CY
Total area for 6" sidewalk (237 SY) * base thickness (6/36 SY) = 39.50 CY
Total area for driveway concrete (293 SY) * base thickness (6/36 SY) = 48.83 CY
Total length of curb & gutter (632 LF) * (1/3 Y/LF) * base width (30/36 Y) * base thickness (7/36 Y) = 34.14 CY
Total length of Type 1 curb (195 LF) * (1/3 Y/LF) * estimated cross section area of base (3.316/9 SY) = 23.95 CY
Sum of all cubic yards (331.97 CY) * Class 5 unit weight (1.875 ton/CY) = 622.45 tons

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	10	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	10	2

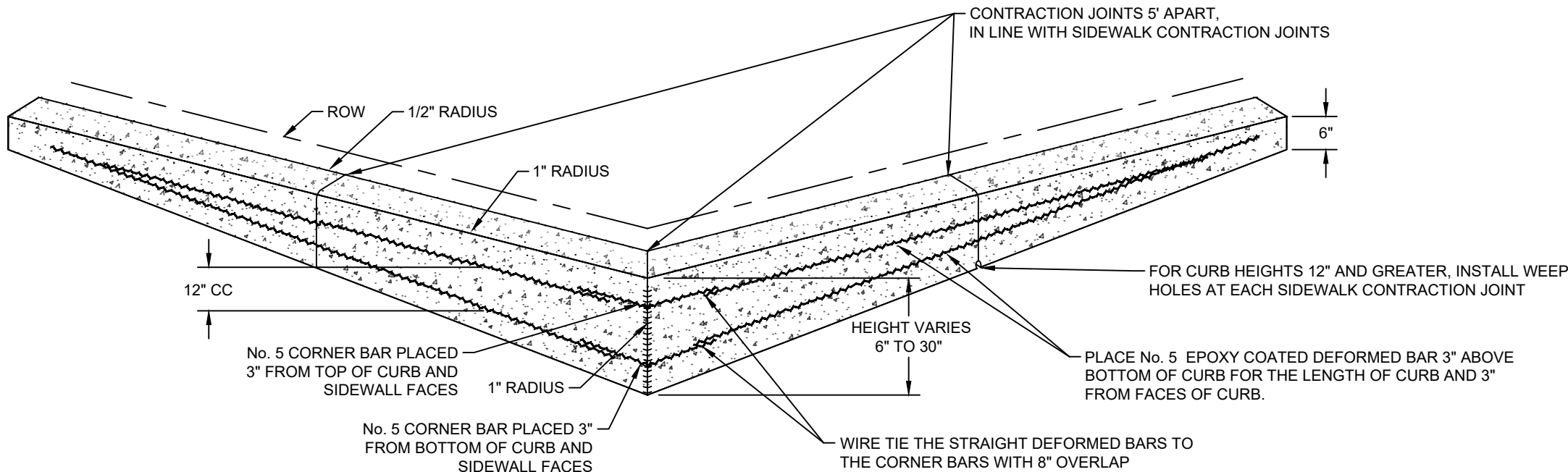


BASIS OF ESTIMATE
WASHINGTON

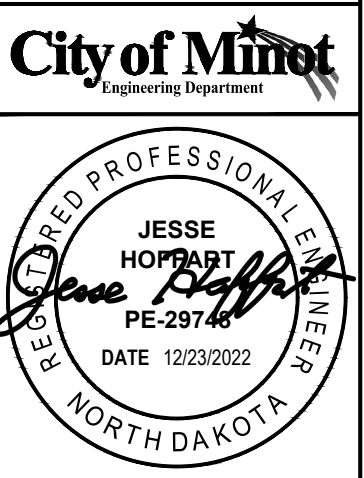
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	20	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	20	1



CURB TYPE 1 ADJACENT TO LANDSCAPE
(ISOMETRIC VIEW)



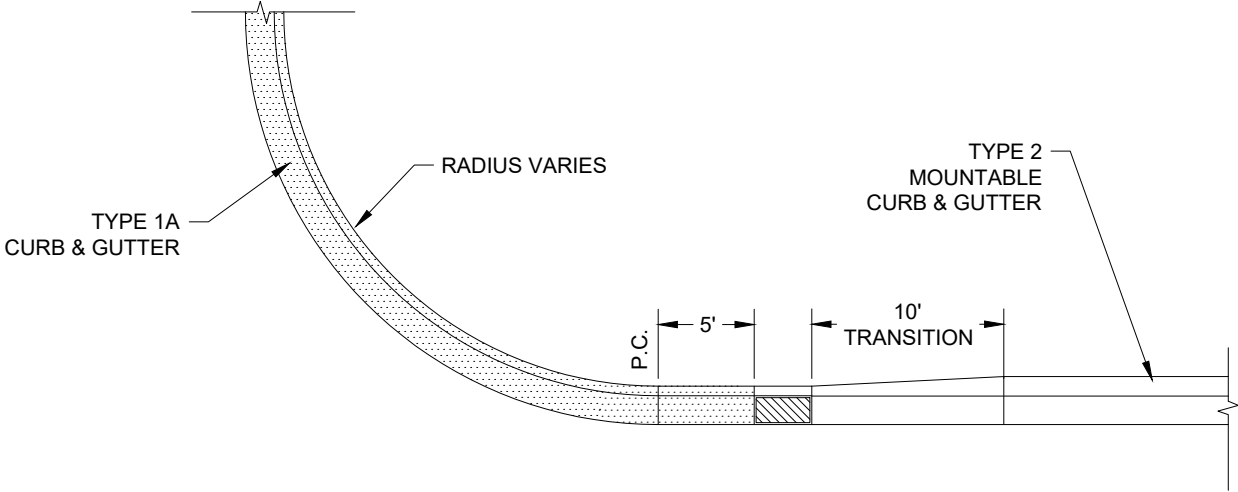
CURB TYPE 1 INTERSECTION
(ISOMETRIC VIEW)



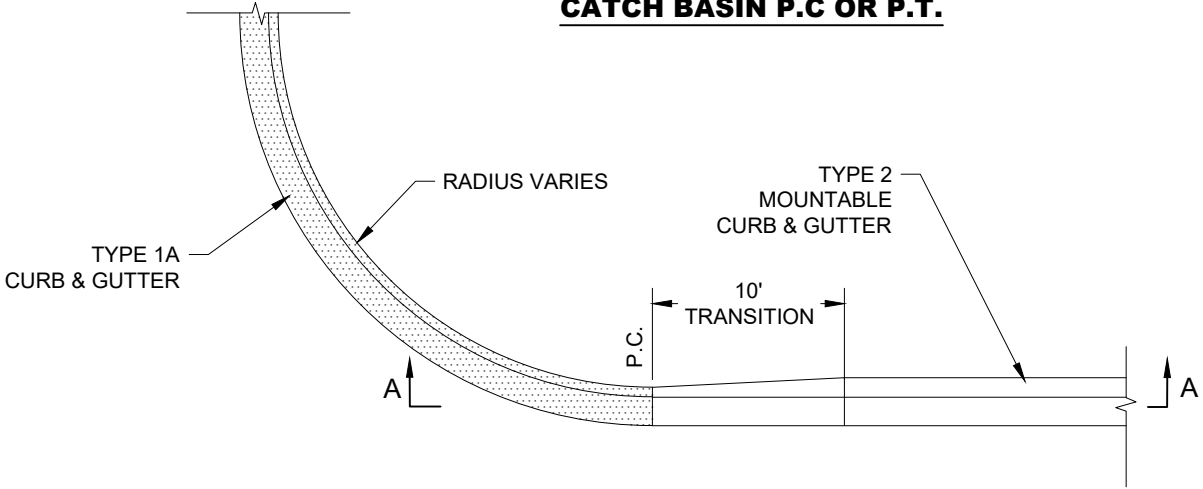
CURB TYPE 1
DETAILS

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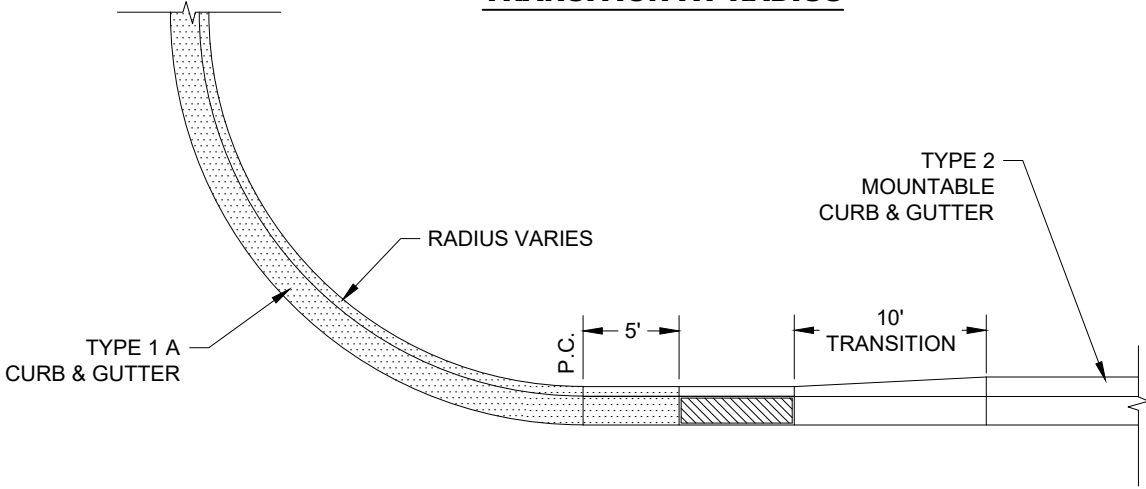
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	20	4
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	20	4



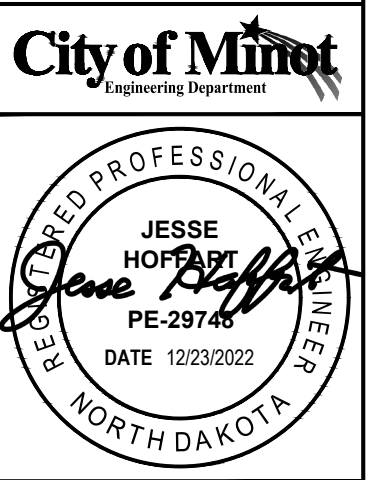
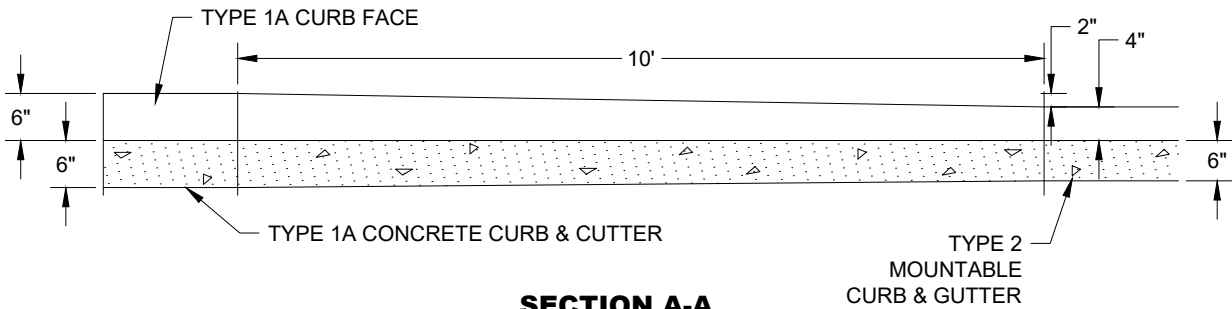
CATCH BASIN P.C OR P.T.



TRANSITION AT RADIUS

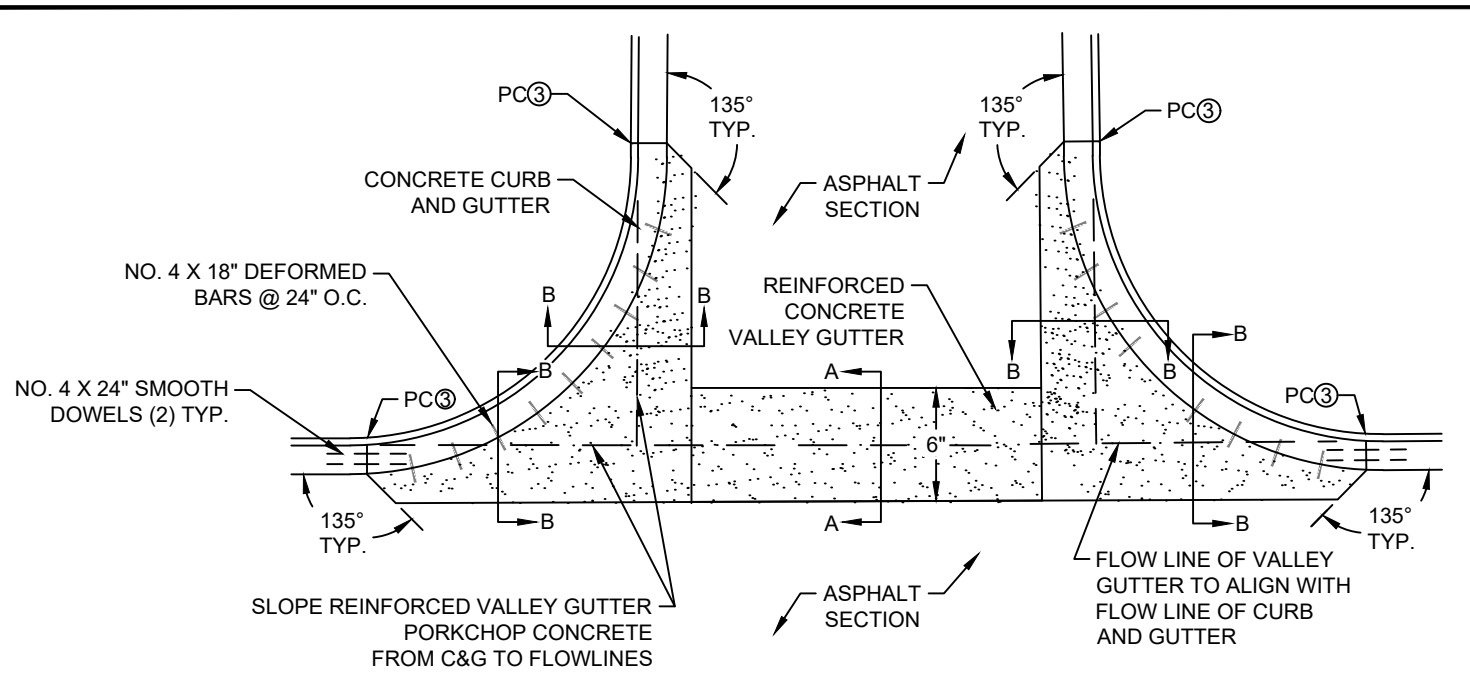


DOUBLE CATCH BASIN

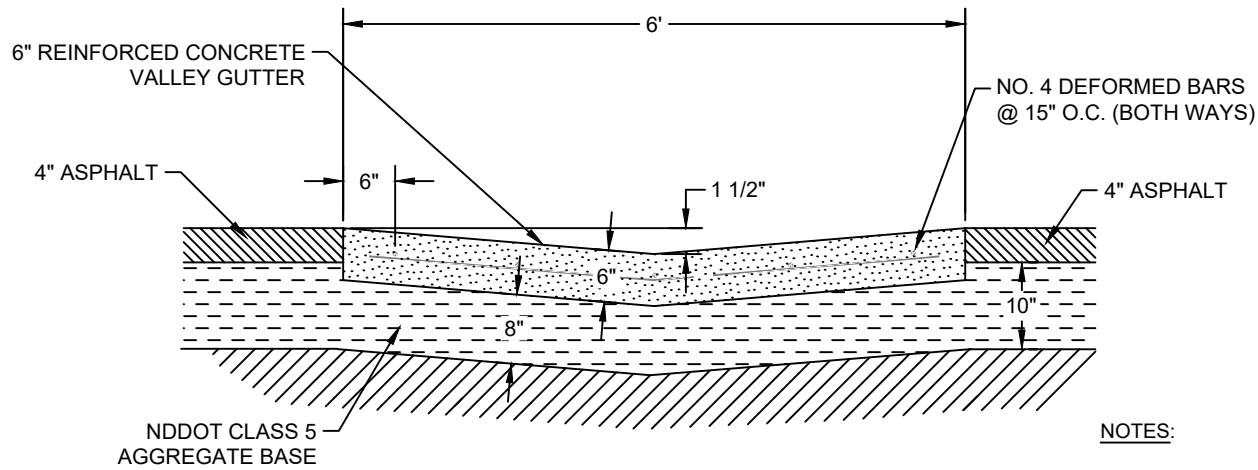


MOUNTABLE CURB & GUTTER
TRANSITION DETAILS

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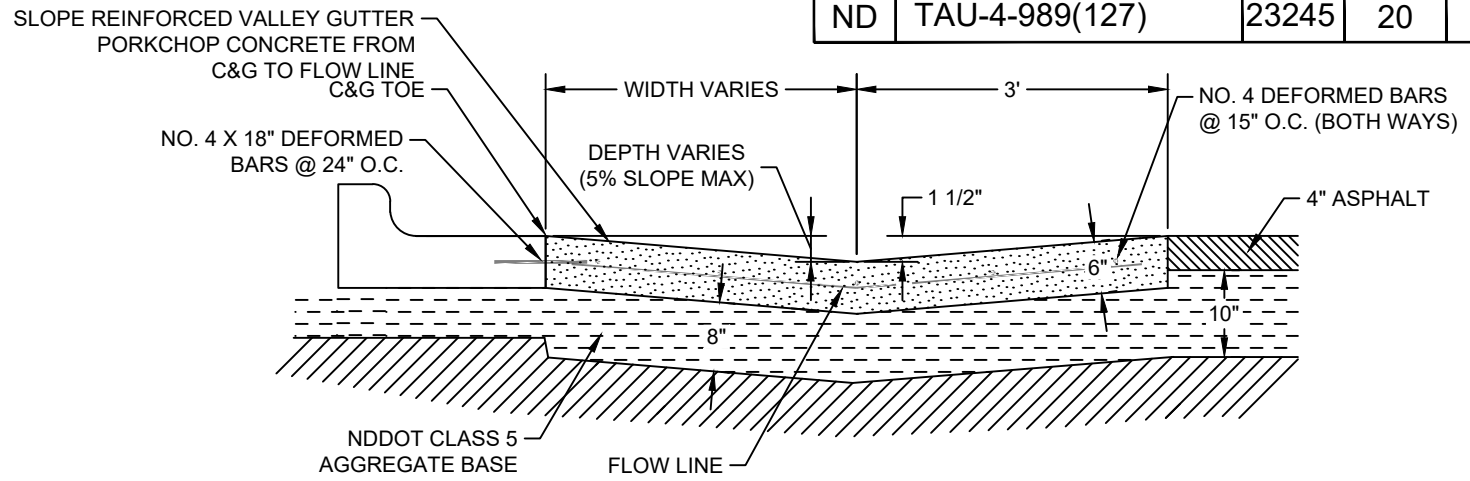
VALLEY GUTTER TYPE A
ASPHALT STREET



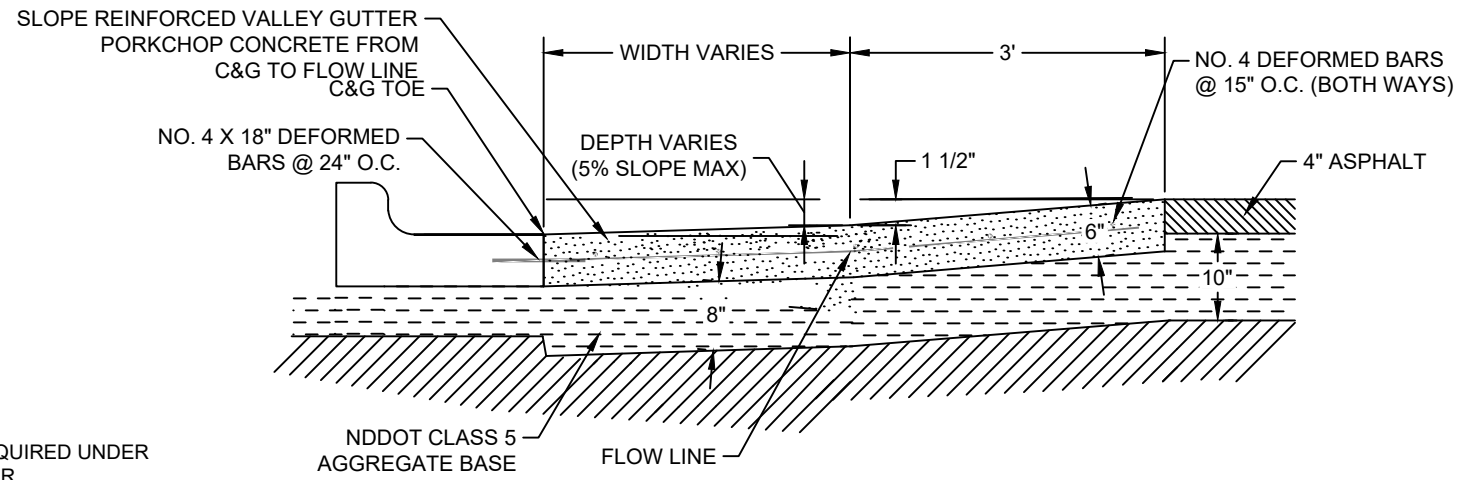
VALLEY GUTTER TYPE A
SECTION A-A

NOTES:

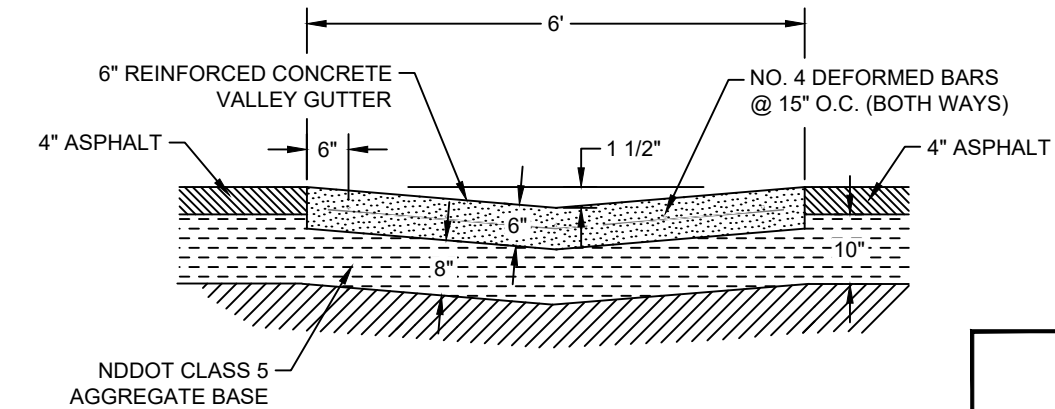
1. AGGREGATE BASE REQUIRED UNDER ENTIRE VALLEY GUTTER
2. REFER TO PLANS FOR LENGTH OF VALLEY GUTTER.
3. CONSTRUCT EXPANSION JOINTS AT PCs.
4. SPACE CONTRACTION JOINTS AT APPROX. INTERVALS EQUAL TO WIDTH OF VG.



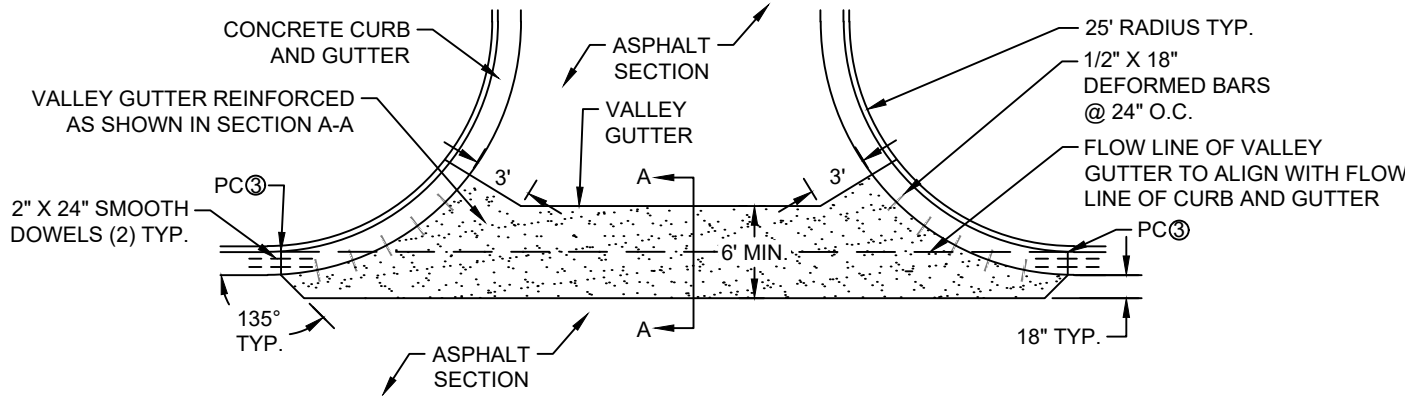
VALLEY GUTTER TYPE A
SECTION B-B (DECLINE FROM C&G TOE)



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

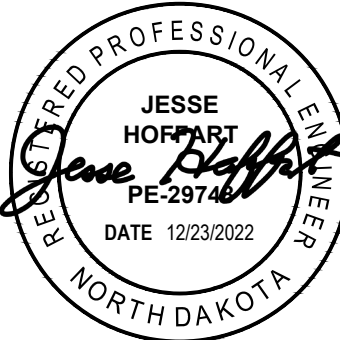


VALLEY GUTTER TYPE B
SECTION A-A



VALLEY GUTTER TYPE B
PLAN VIEW

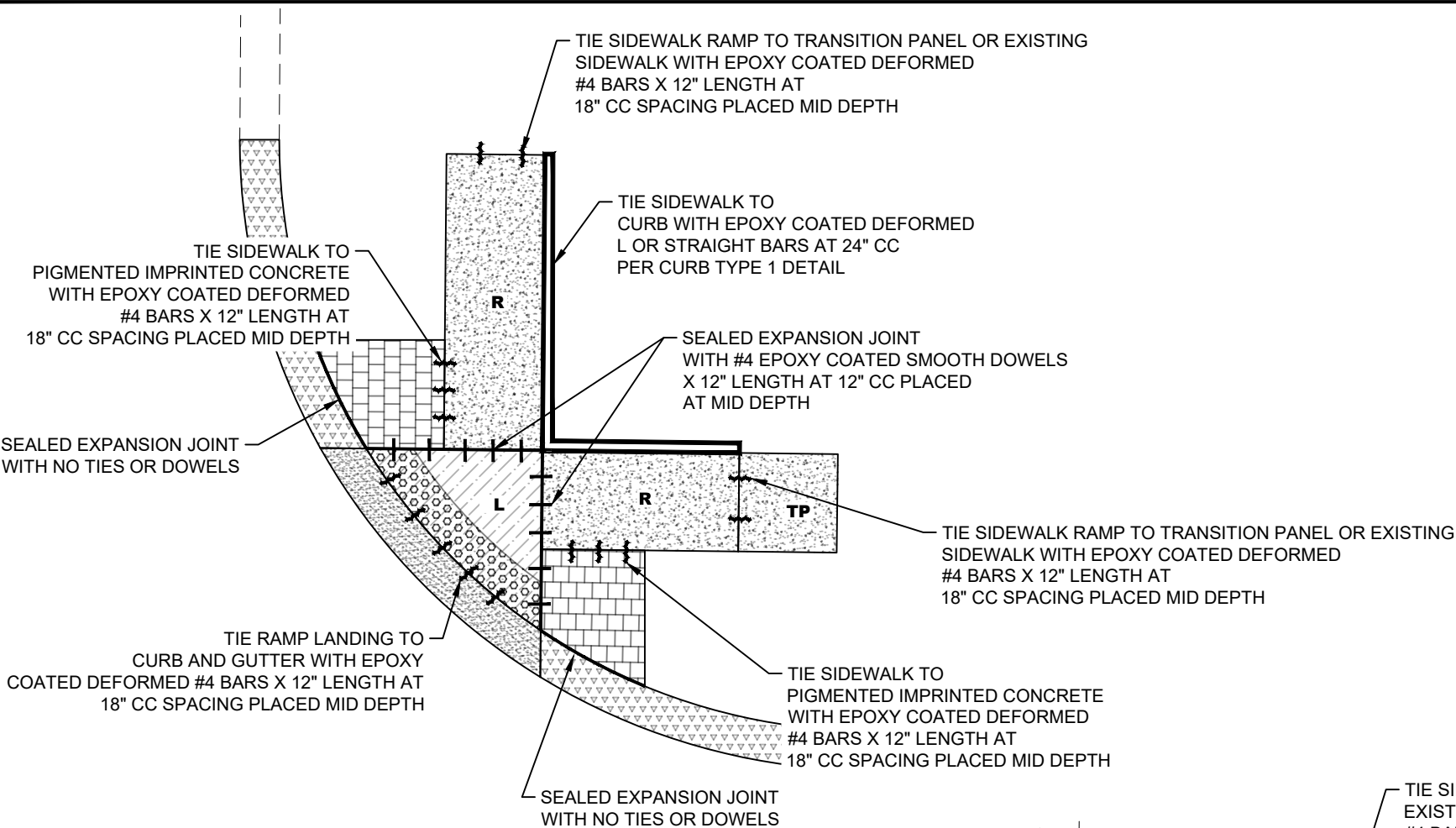
City of Minot
Engineering Department



VALLEY GUTTER
DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	20	8
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	20	8

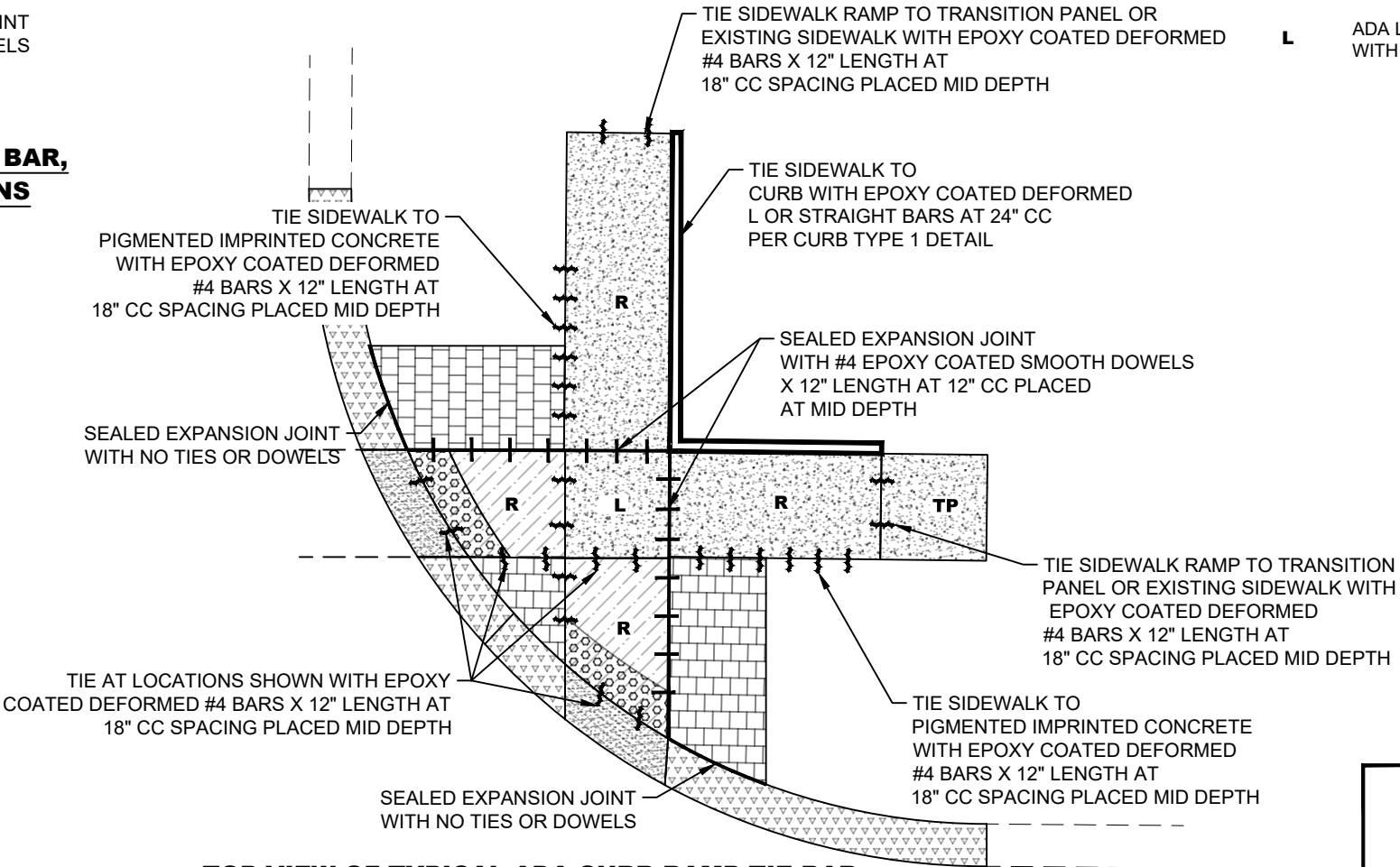
LEGEND	
	CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
	CURB AND GUTTER - ADA KNOCK DOWN (WITH SPECIFIED GUTTER TOE ELEVATIONS)
	CURB - TYPE 1 (SEE DETAIL)
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
R	ADA RAMP WITH MAX SLOPE OF 1:12
TP	TRANSITIONAL TIE-IN PANEL
L	ADA LANDING TURNING SPACE WITH A 2% MAX SLOPE IN ALL DIRECTIONS



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

NOTES:

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



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

City of Minot
Engineering Department



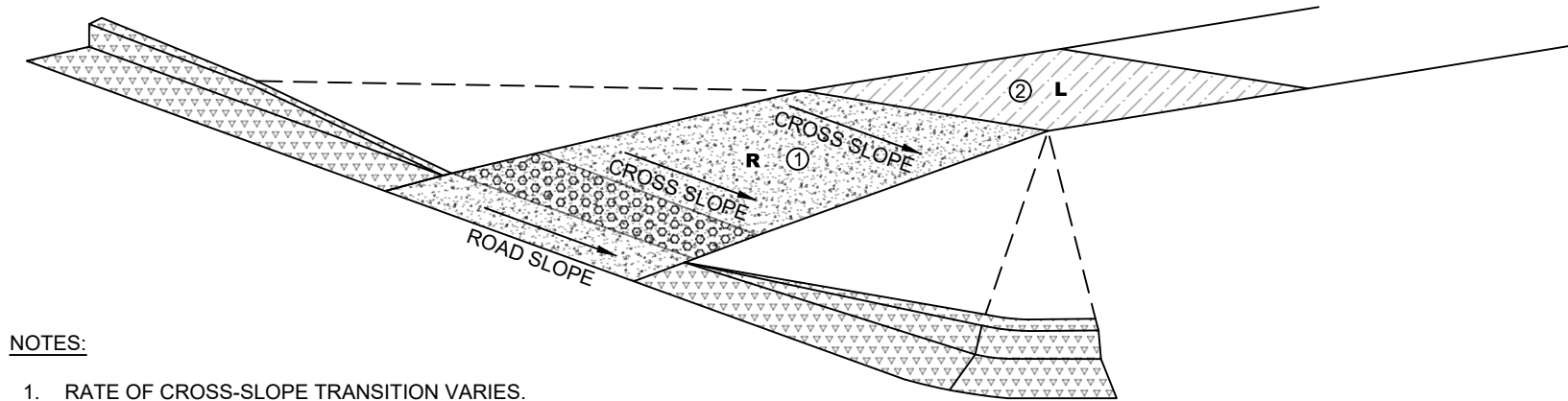
TYPICAL ADA CURB RAMP
TIE BAR, DOWEL, & EXPANSION
JOINT LOCATION DETAILS

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ND	TAU-4-989(126)	23244	20	9
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	20	9

LEGEND

-  CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-  CURB AND GUTTER - ADA KNOCK DOWN (WITH SPECIFIED GUTTER TOE ELEVATIONS)
-  4" CONCRETE SIDEWALK (NON-REINFORCED)
-  6" CONCRETE SIDEWALK (NON-REINFORCED)
-  DETECTABLE WARNING PANEL
- R** ADA RAMP WITH MAX SLOPE OF 1:12
- L** ADA LANDING TURNING SPACE WITH A 2% MAX SLOPE IN ALL DIRECTIONS

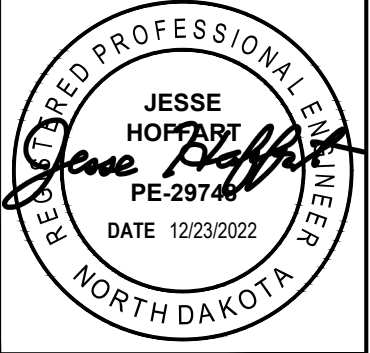


NOTES:

1. RATE OF CROSS-SLOPE TRANSITION VARIES. SEE SECTION 80 FOR MORE INFORMATION.
2. LANDING SHOULD NOT EXCEED 2% SLOPE IN ALL DIRECTIONS.

WARPED TRANSITION RAMP

City of Minot
Engineering Department

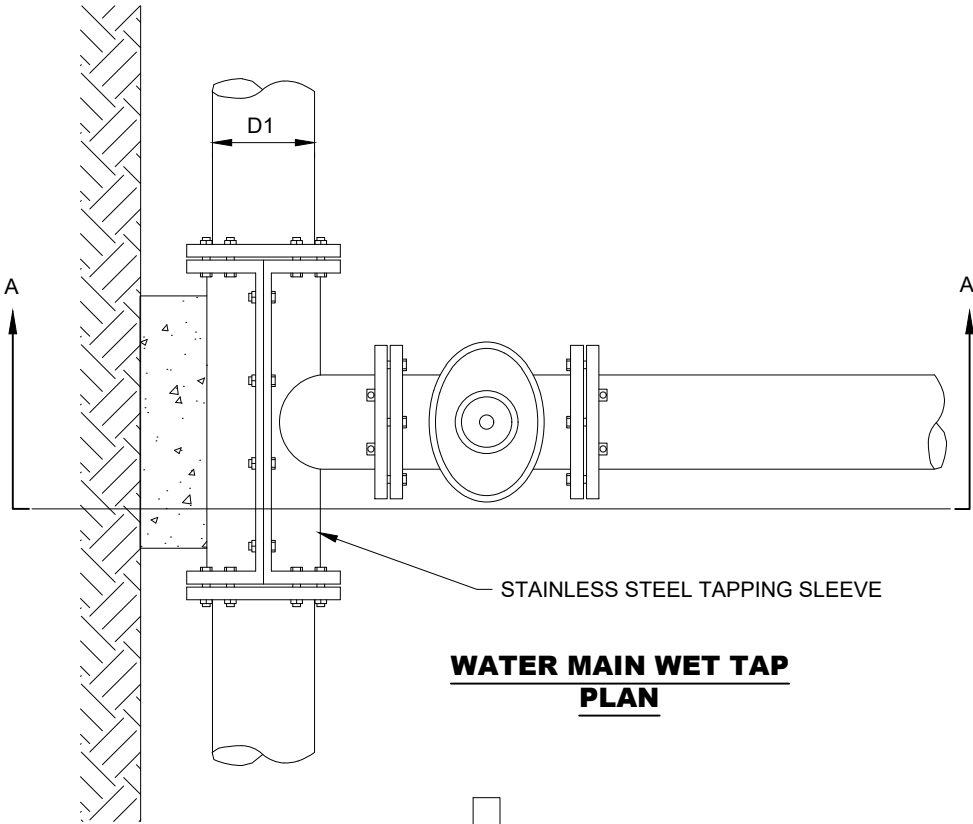


WARPED TRANSITION RAMP
DETAIL

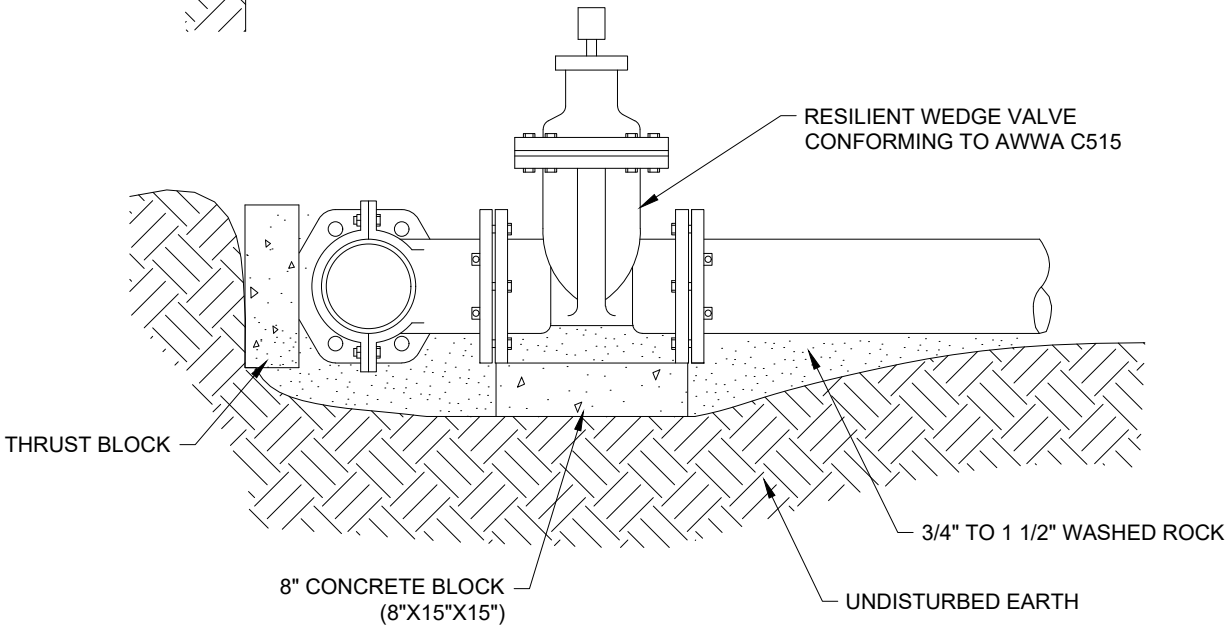
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NOTES:

- 1. 8.5' MINIMUM COVER REQUIRED OVER TOP OF WATER MAIN.
- 2. ALL TAPPING GATE VALVES SHALL BE STRAIGHT FLANGE BY MJ FLANGE.
- 3. GAVE VALVE BOX PER SEPARATE STANDARD DETAIL.
- 4. ALL WATER MAIN TAPS SHALL ONLY BE OPERATED BY PUBLIC WORKS STAFF; CONTRACTOR MUST CONTACT THE WATER AND SEWER SUPERINTENDENT.



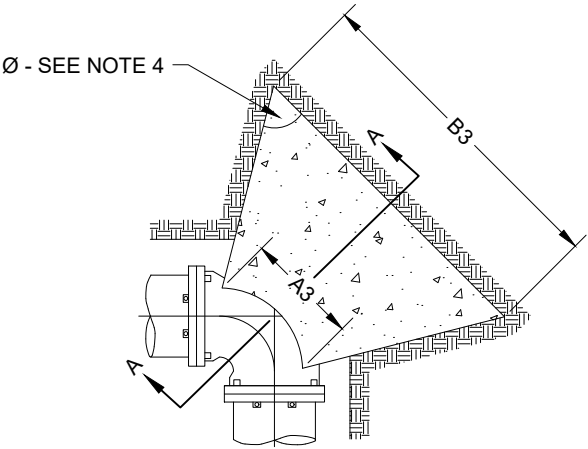
WATER MAIN WET TAP
PLAN



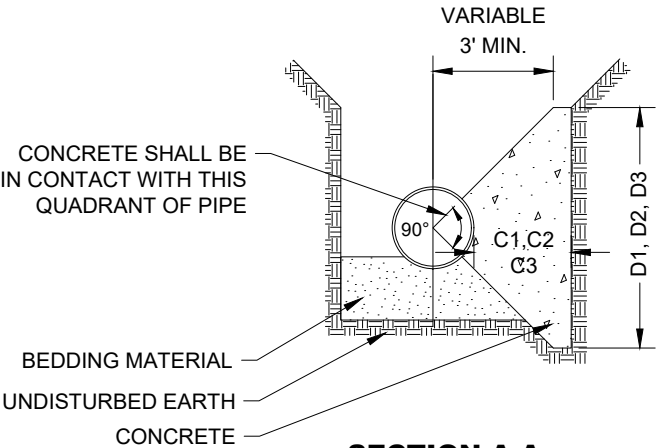
SECTION A-A

NOTES:

- 1. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POURED AGAINST FIRM UNDISTURBED EARTH.
- 2. DIMENSION C1, C2, & C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE Ø EQUAL TO OR LARGER THAN 45°.
- 3. DIMENSION A1, A2, & A3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MJ BOLTS.
- 4. Ø = 45° MINIMUM.
- 5. PLACE POLYETHYLENE BETWEEN CONCRETE & PIPE.

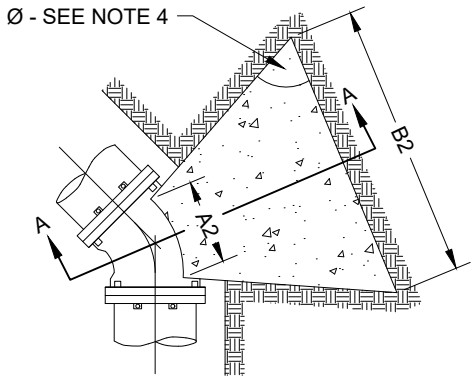


PLAN 90° BENDS

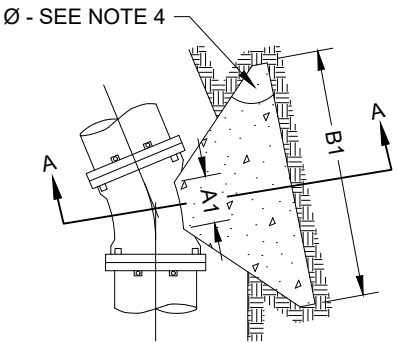


SECTION A-A

CONCRETE THRUST BLOCKING



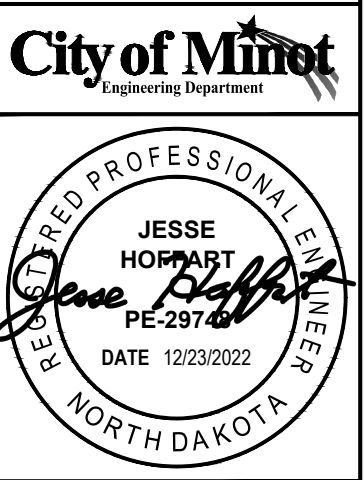
PLAN 45° BENDS



PLAN 22.5° BENDS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	20	11
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	20	11

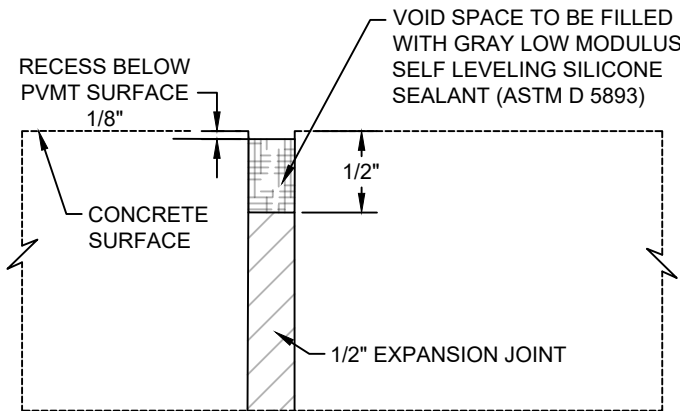
PIPE SIZE	22.5° BEND		45° BEND		90° BEND	
	B1	D1	B2	D2	B3	D3
6"	1' - 5"	1' - 5"	1' - 5"	1' - 5"	1' - 5"	1' - 5"
8"	1' - 5"	1' - 5"	2' - 1"	1' - 6"	2' - 8"	2' - 0"
12"	1' - 10"	1' - 10"	3' - 4"	2' - 0"	4' - 9"	2' - 6"
16"	3' - 0"	2' - 0"	3' - 10"	3' - 0"	6' - 2"	3' - 6"
20"	3' - 6"	2' - 8"	5' - 6"	3' - 4"	8' - 4"	4' - 0"
24"	4' - 4"	3' - 0"	6' - 10"	3' - 10"	6' - 2"	3' - 6"
30"	-	-	9' - 3"	6' - 0"	17' - 0"	6' - 0"



WATER MAIN DETAILS

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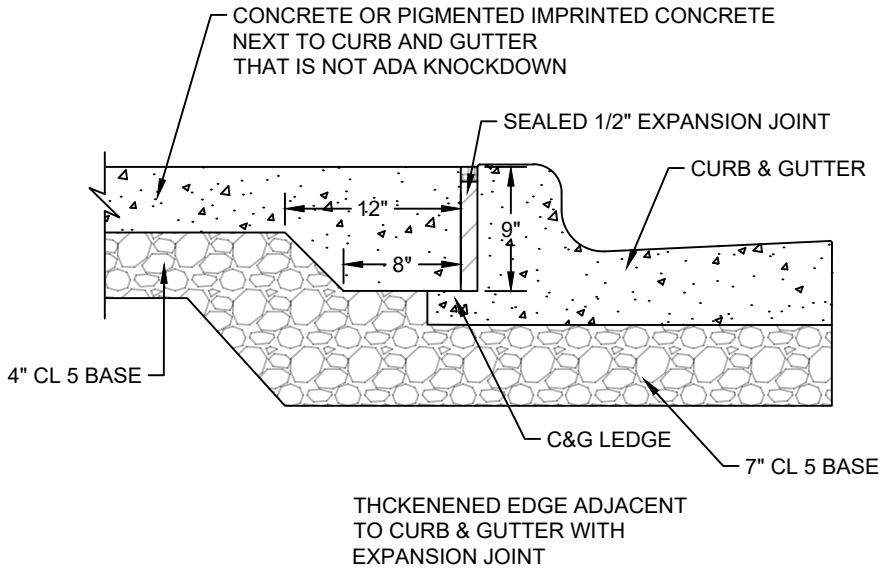
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	20	12
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	20	12



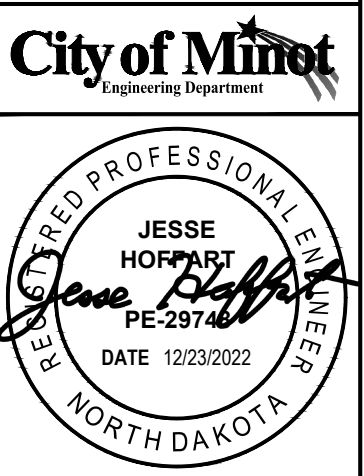
SEALED EXPANSION JOINT

NOTES

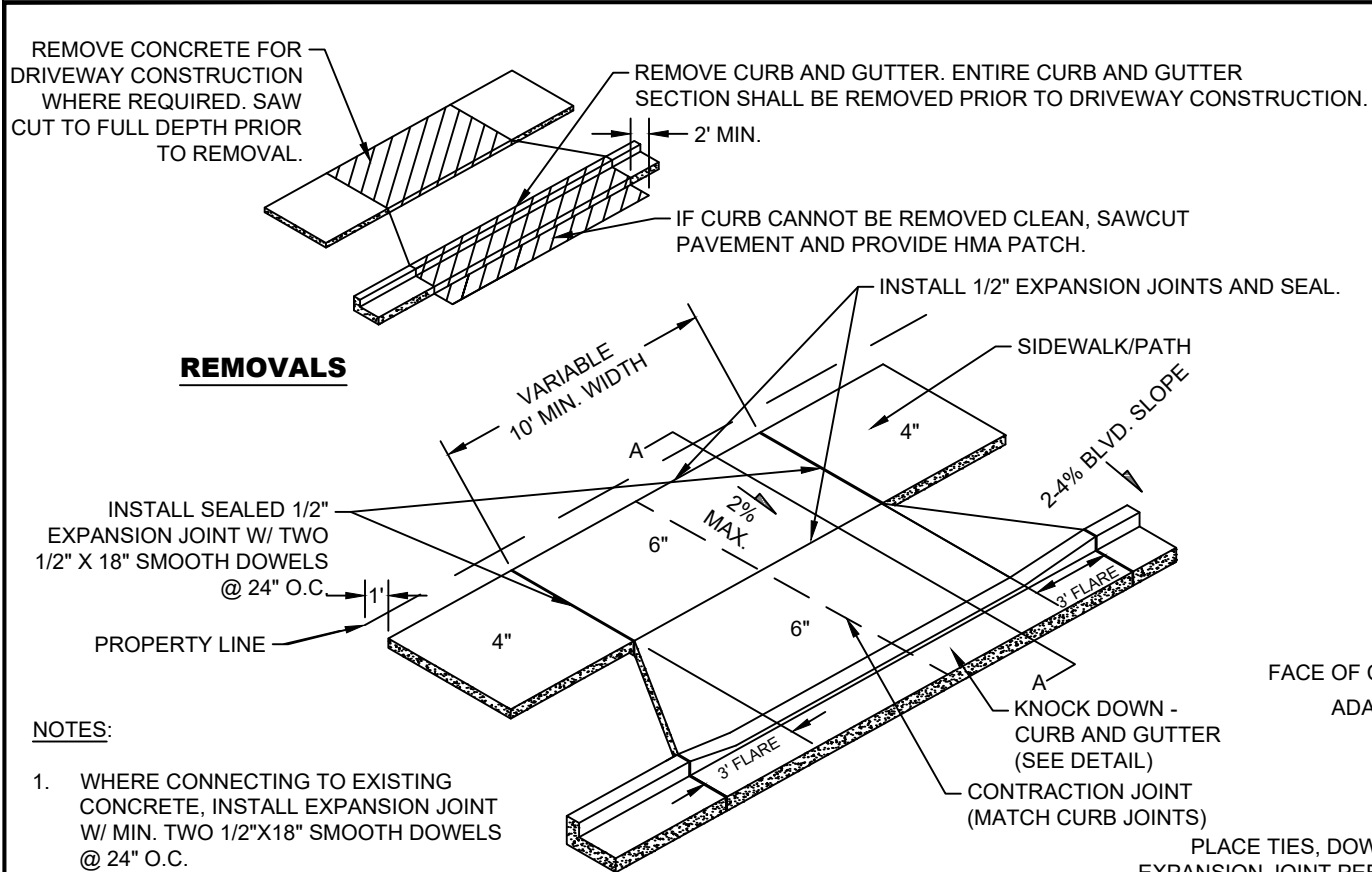
1. AFTER REMOVAL OF PLASTIC EDGE CAPS OR TEAR STRIP ON EXPANSION JOINT TO MAKE THE VOID FOR PLACEMENT OF SILICONE SEALANT, AIR BLAST TO CLEAN ALL SIDES AND IMMEDIATELY PLACE SILICONE SEALANT TO THE CLEAN VOID SPACE.



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

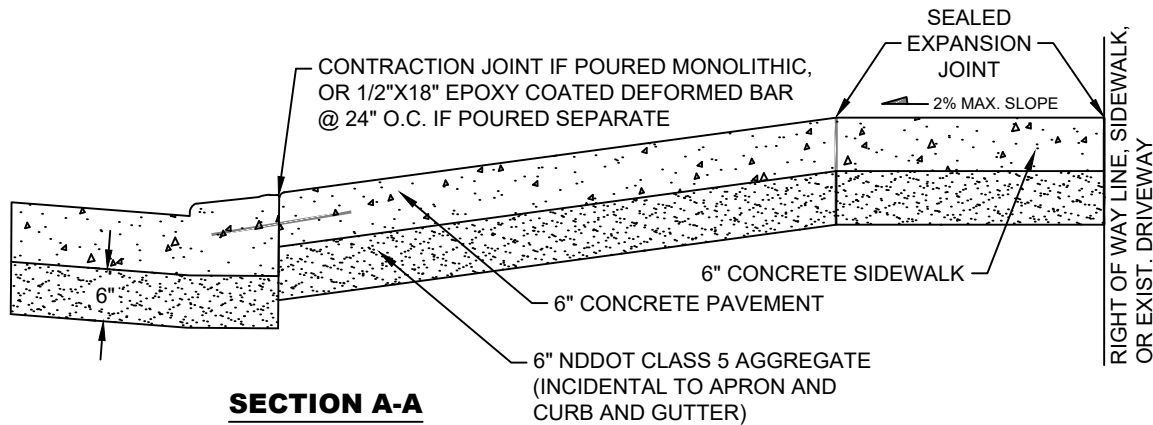


EXPANSION JOINT
DETAILS

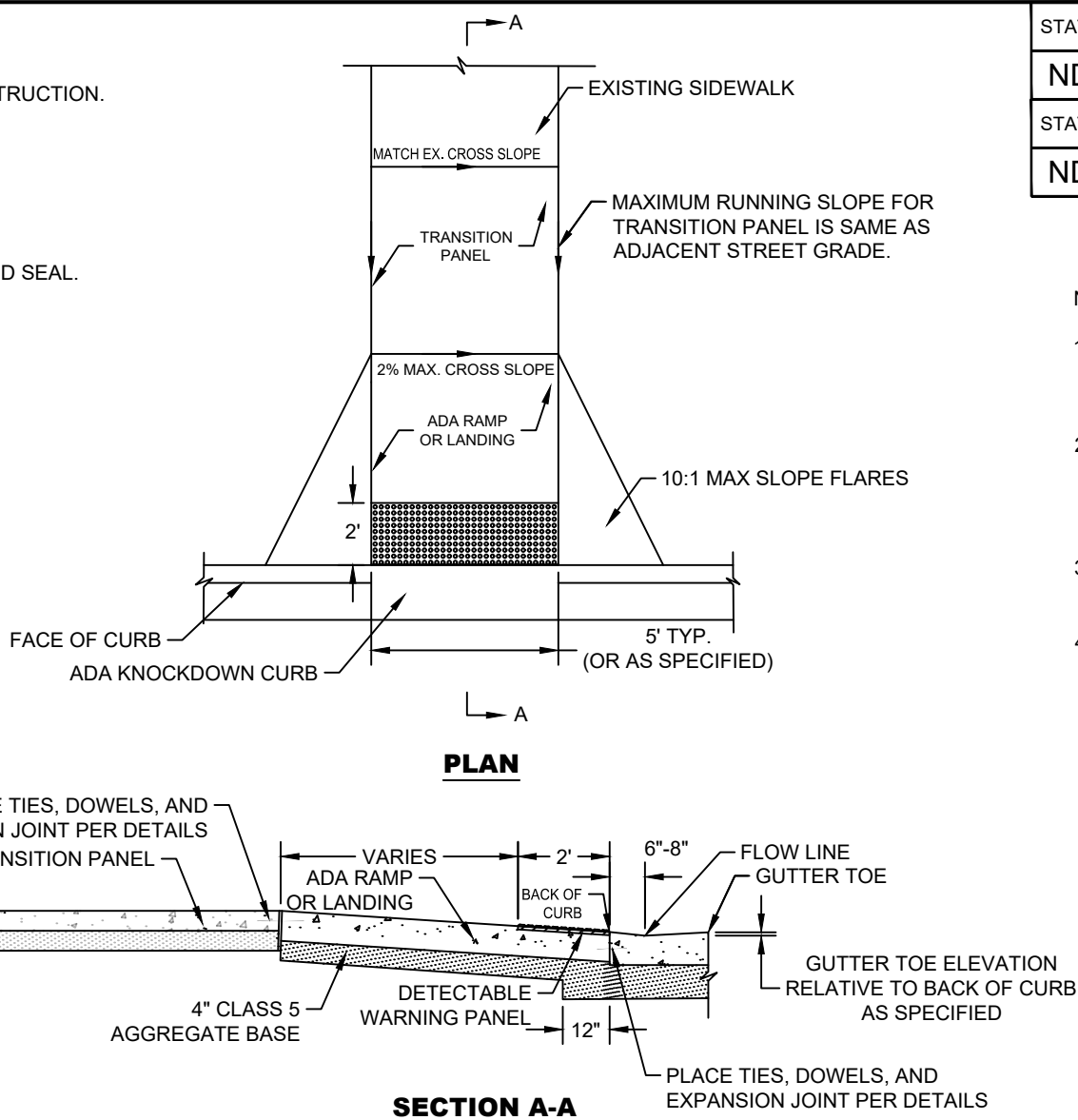


NOTES:

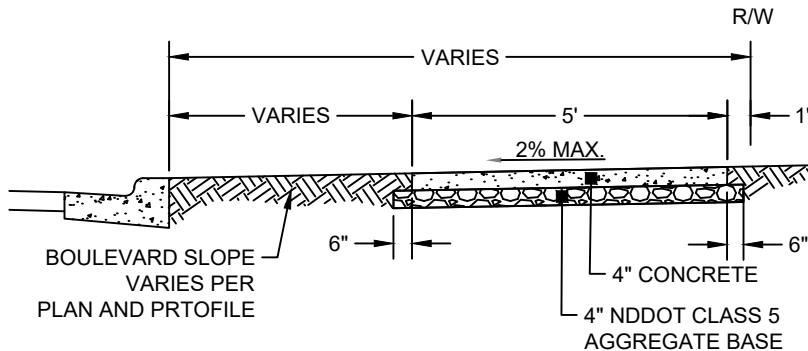
- WHERE CONNECTING TO EXISTING CONCRETE, INSTALL EXPANSION JOINT W/ MIN. TWO 1/2"X18" SMOOTH DOWELS @ 24" O.C.
- DRIVEWAYS GREATER THAN 10' WIDE SHALL HAVE CONTRACTION JOINTS PERPENDICULAR TO CURB WITH MINIMUM 10' SPACING. MATCH CURB JOINTS.
- FORMS ARE REQUIRED ON ALL EDGES.
- ALL HMA PATCHES SHALL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



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



ADA CURB RAMP/TRANSITION PANEL



NOTES:

- LIGHT BROOM FINISH PERPENDICULAR TO CURB.
- SAW JOINTS TO MIN. DEPTH OF 3/4".
- RECOMMENDED CROSS-SLOPE IS 1.5%. 2% IS THE MAXIMUM.
- CONTRACTION JOINT SPACING:

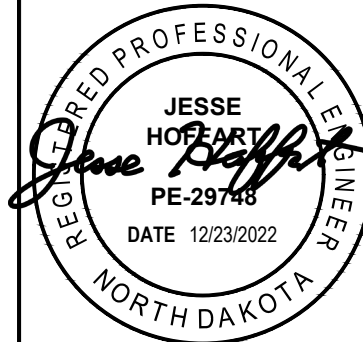
SIDEWALK/PATH WIDTH	L x W
5'	5' x 5'
6'	5' x 6'
8'	4.5' x 4'
10'	5' x 5'
- PLACE 1/2" SEALED EXPANSION JOINTS EVERY 60 LINEAL FEET ALONG SIDEWALK PATH

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	30	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	30	1

NOTES:

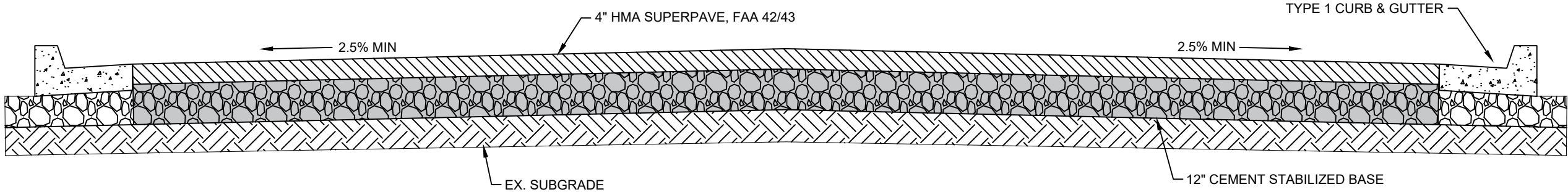
- DETECTABLE WARNING PANELS SHALL BE INSTALLED TO FULL WIDTH IN THE LANDING OR RAMP ADJACENT TO THE ADA KNOCK DOWN CURB.
- THE TRANSITION PANEL CROSS SLOPE FROM THE RAMP OR LANDING TO THE EXISTING SIDEWALK SHALL BE A MAXIMUM OF 0.5% PER 1 LINEAL FOOT OF RUNNING LENGTH.
- ADA RAMPs SHALL HAVE A MAXIMUM RUNNING SLOPE OF 8.33% AND A CROSS SLOPE OF 2%.
- ADA LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.

City of Minot
Engineering Department



TYPICAL SECTIONS
DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	30	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	30	2



HIAWATHA STREET EXISTING SECTION

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

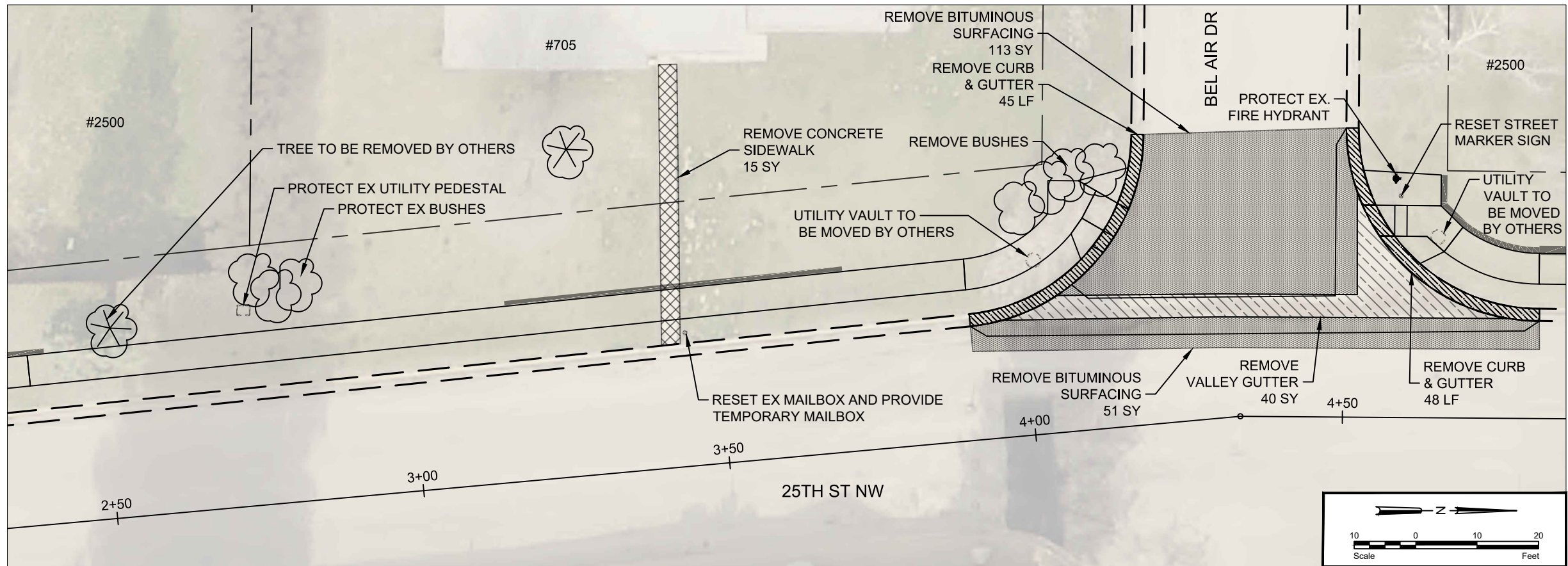
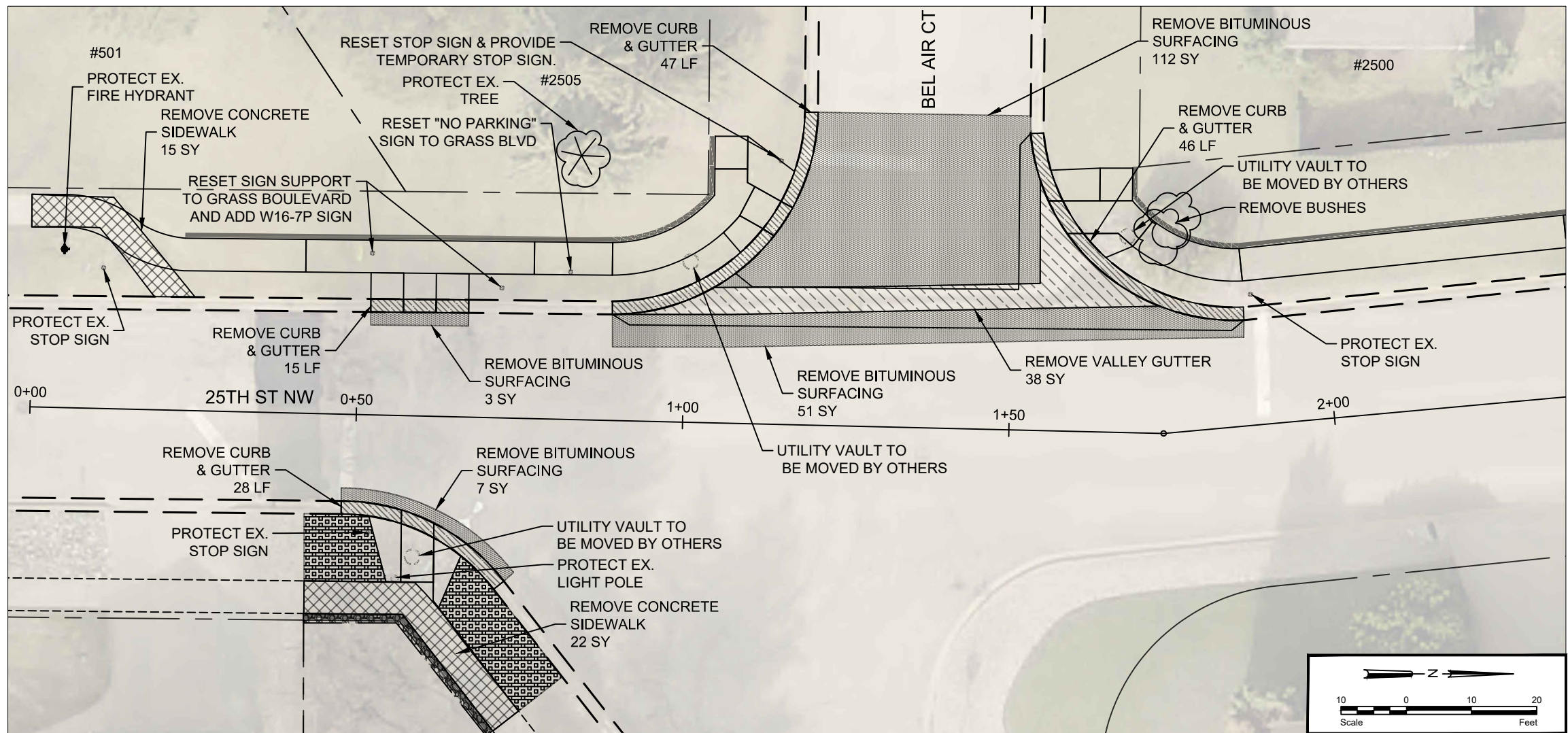
JESSE
HOFFART
PE-29746

DATE 12/23/2022

NORTH DAKOTA

TYPICAL SECTIONS
DETAILS

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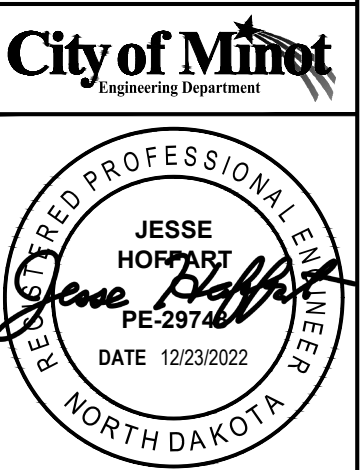


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	130
202	130	REMOVAL OF CURB AND GUTTER	LF	235
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	337
766	120	RESET MAILBOX	EA	1

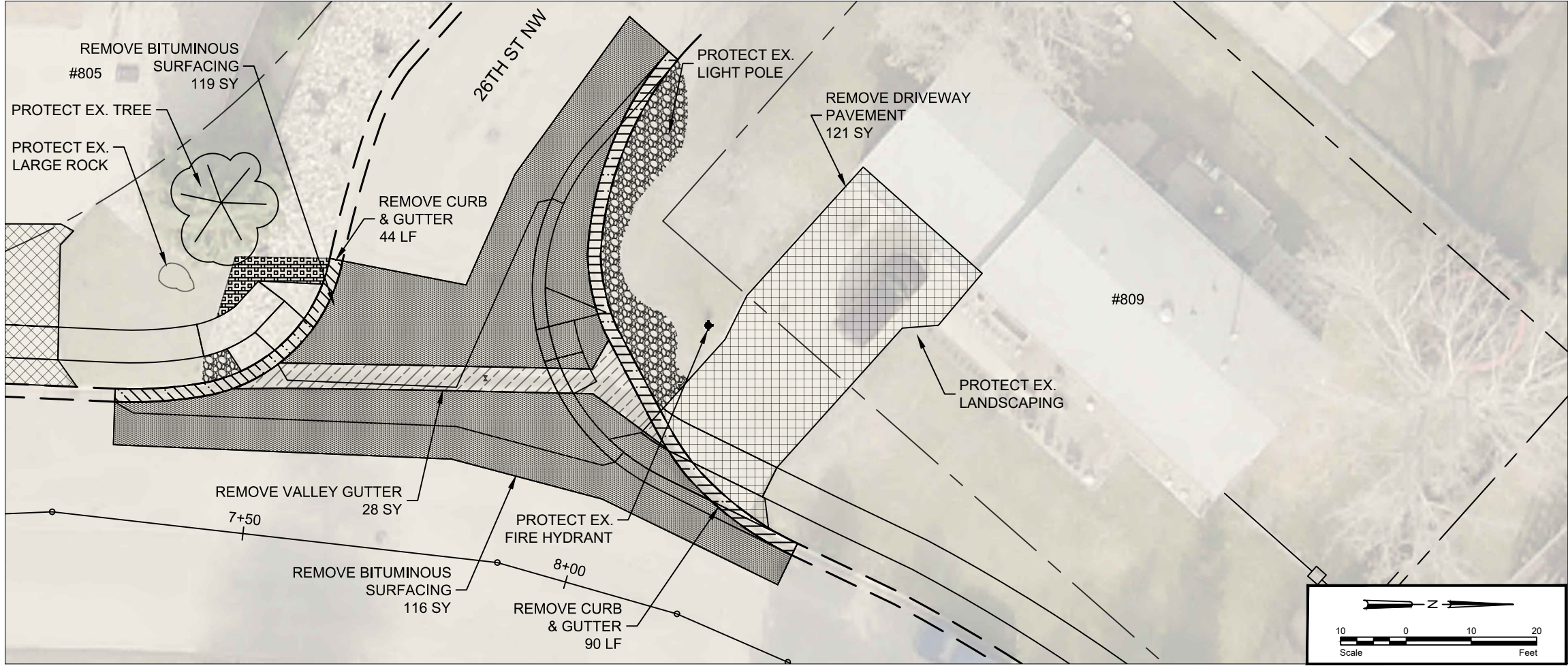
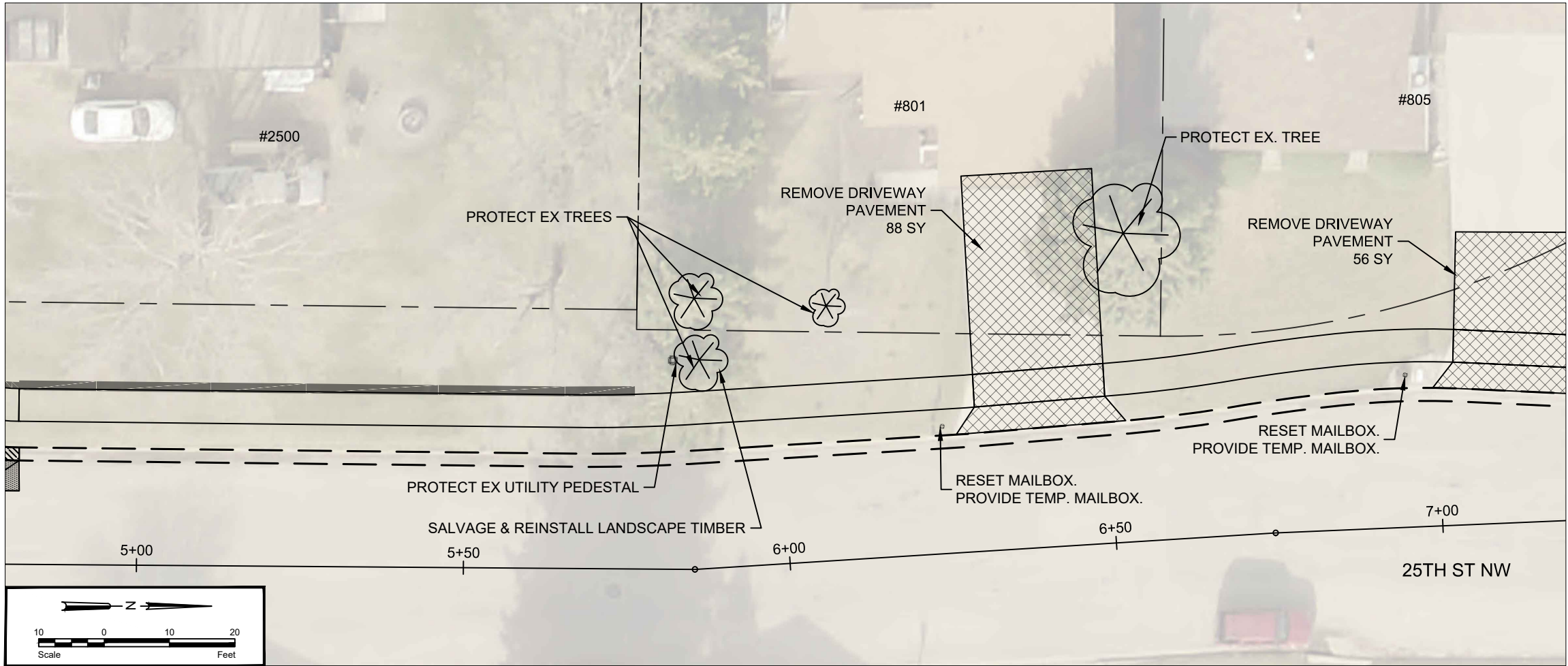
LEGEND

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



REMOVAL DETAIL
STA. 0+00 TO STA. 4+85
BEL AIR SRTS

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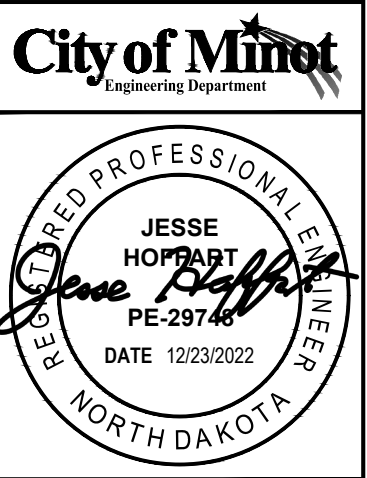


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	293
202	130	REMOVAL OF CURB AND GUTTER	LF	134
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	235

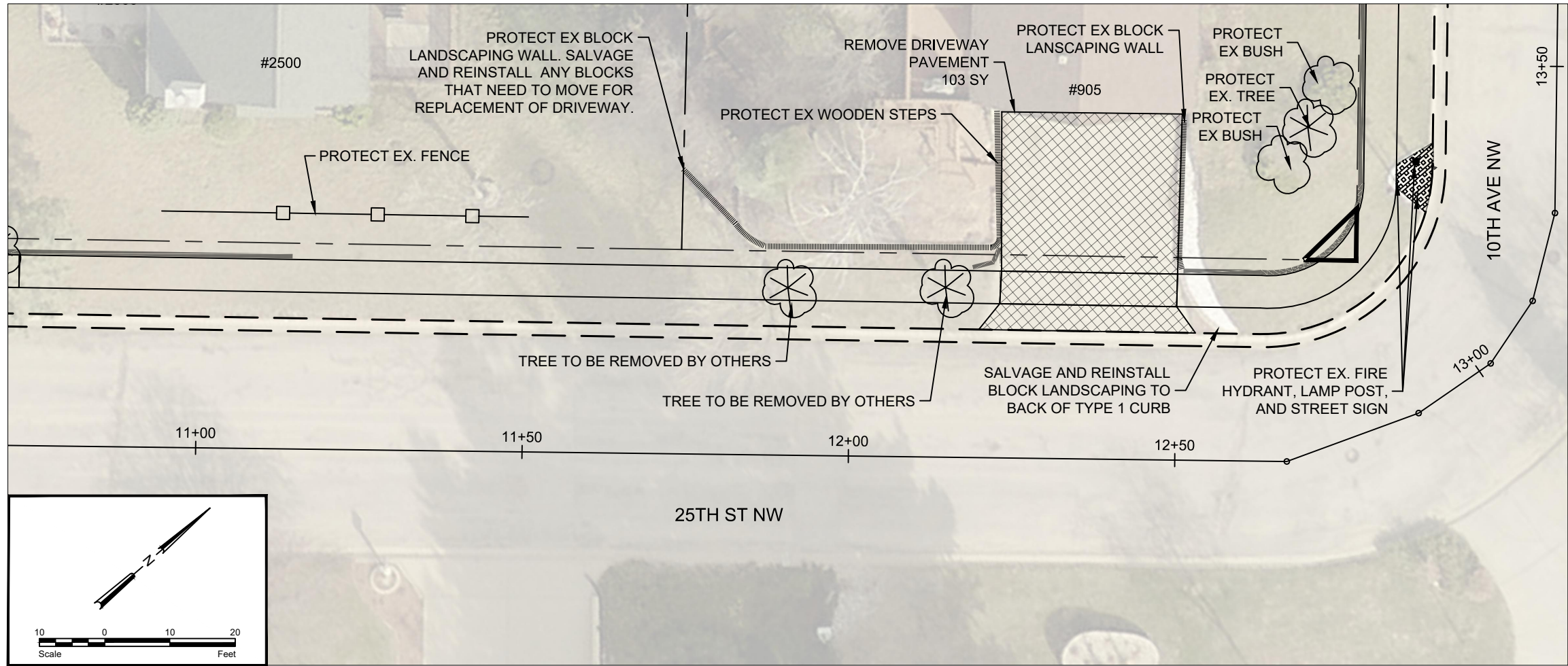
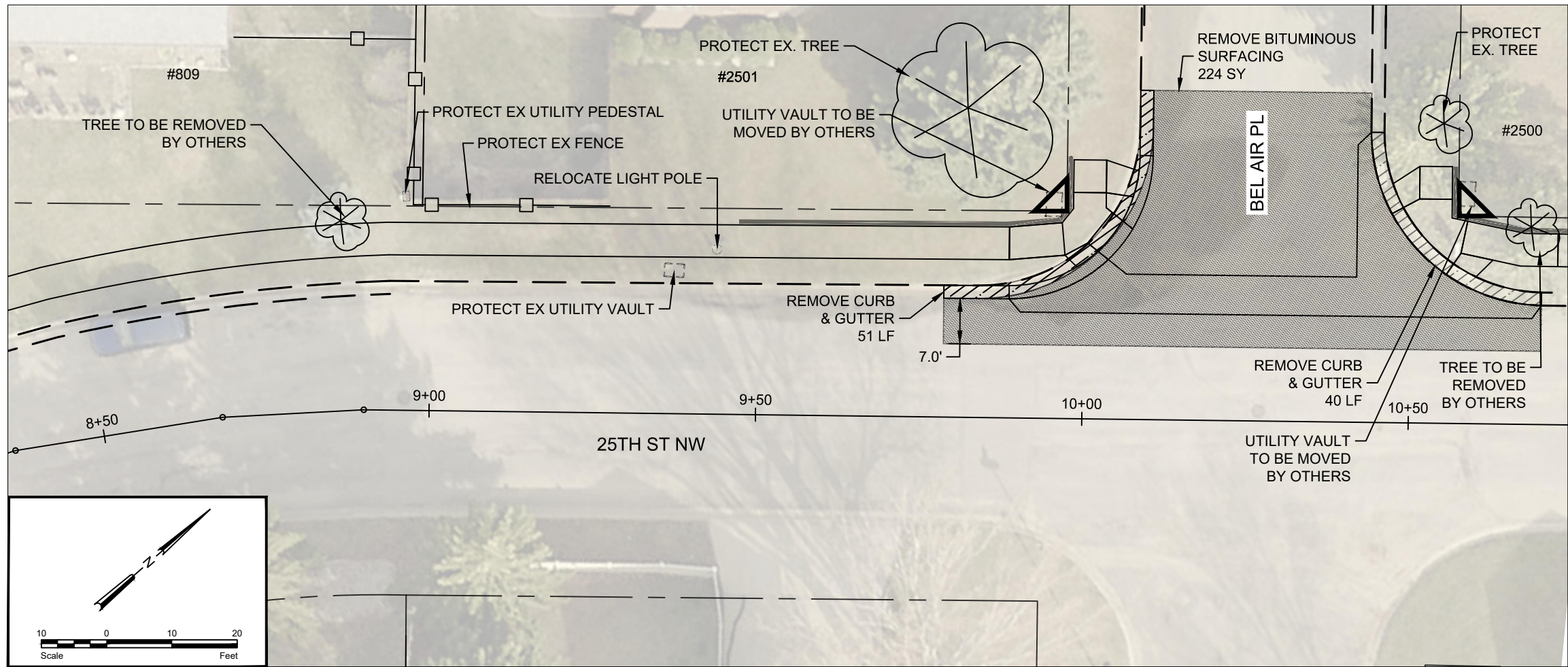
LEGEND

- 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



REMOVAL DETAIL
STA. 4+85 TO STA. 8+35
BEL AIR SRTS

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11/18/2022



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	3
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	3

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	293
202	130	REMOVAL OF CURB AND GUTTER	LF	225
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	224
770	4540	RELOCATE LIGHT STANDARD	EA	1

LEGEND

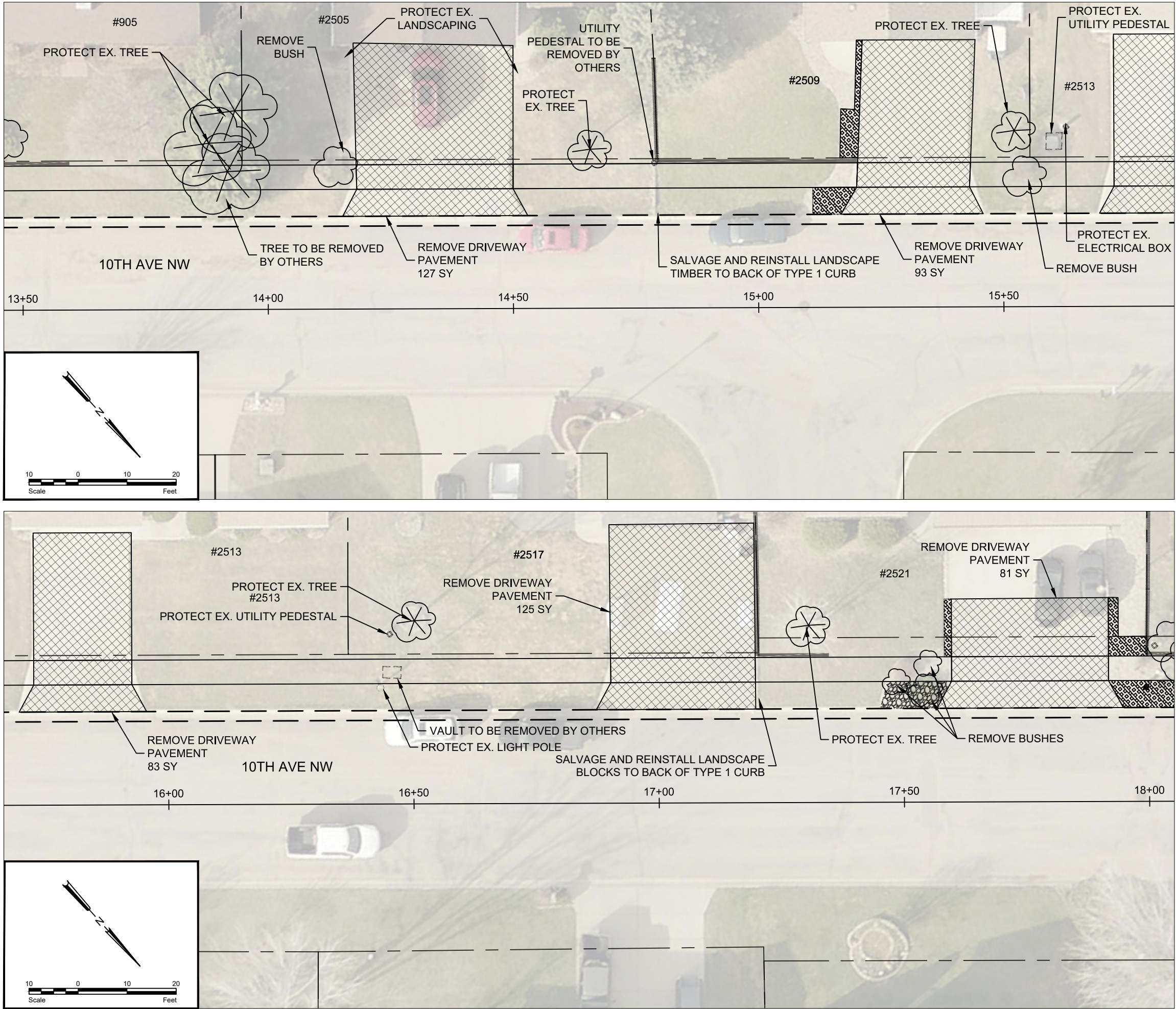
- REMOVE CURB & GUTTER
- REMOVE SIDEWALK/DRIVEWAY
- REMOVE ROCK/LANDSCAPING
- SALVAGE & REINSTALL ROCK
- REMOVE VALLEY GUTTER
- REMOVE BITUMINOUS PAVEMENT
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER

City of Minot
Engineering Department



REMOVAL DETAIL
STA. 8+35 TO STA. 13+50
BEL AIR SRTS

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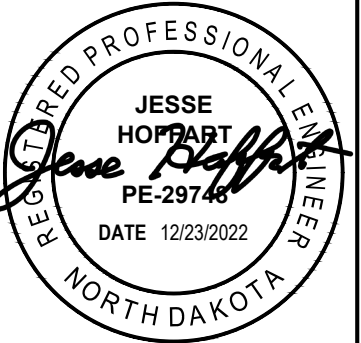
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ND	TAU-4-989(126)	23244	40	4
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	4

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	509

LEGEND

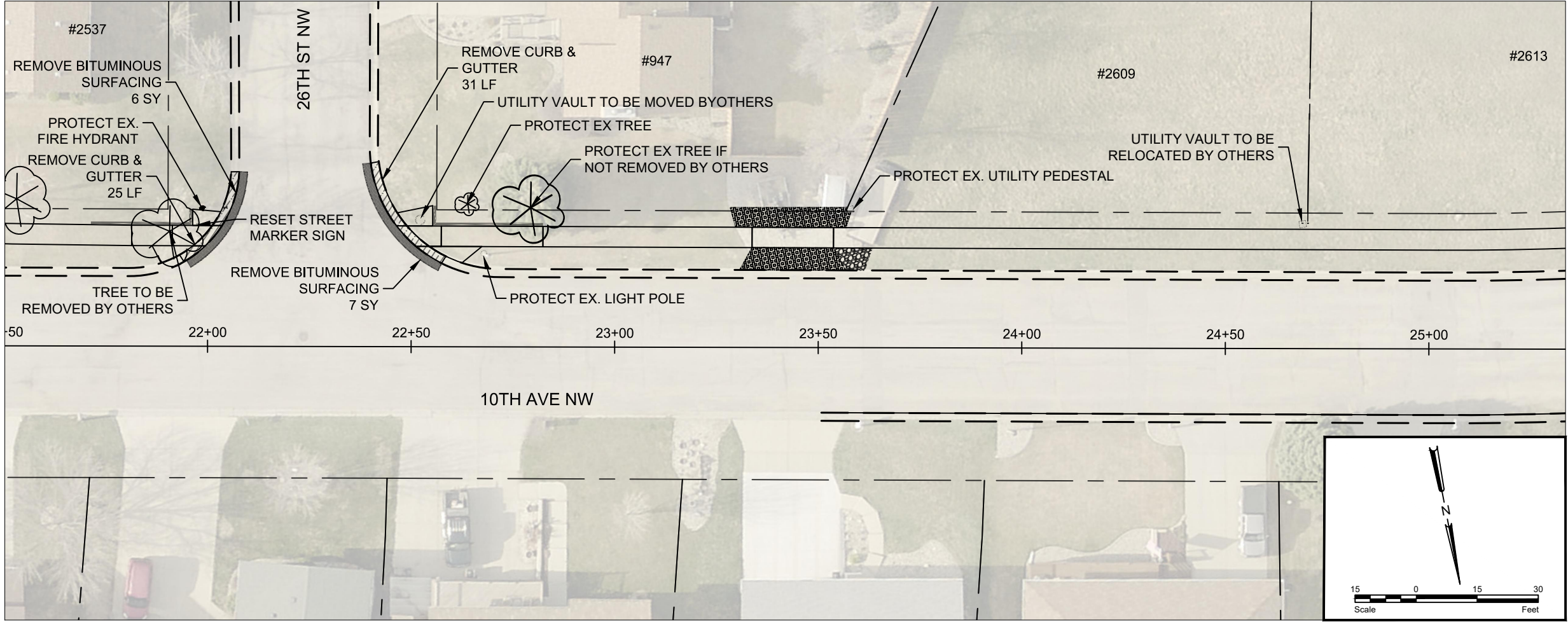
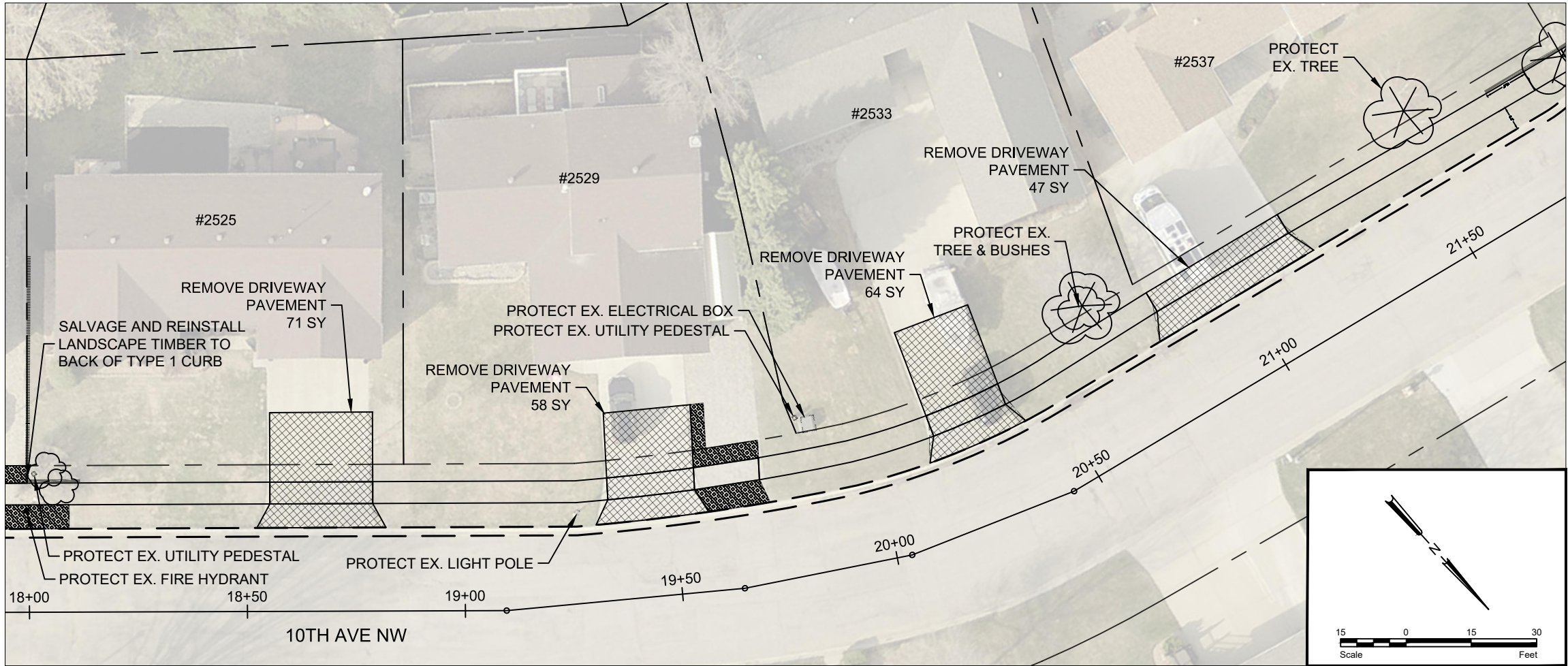
- REMOVE CURB & GUTTER
- REMOVE SIDEWALK/DRIVEWAY
- REMOVE ROCK/LANDSCAPING
- SALVAGE & REINSTALL ROCK
- REMOVE VALLEY GUTTER
- REMOVE BITUMINOUS PAVEMENT
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER

City of Minot
Engineering Department



REMOVAL DETAIL
STA. 13+50 TO STA. 18+00
BEL AIR SRTS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	5
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	5

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	240
202	130	REMOVAL OF CURB AND GUTTER	LF	56
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	13

LEGEND

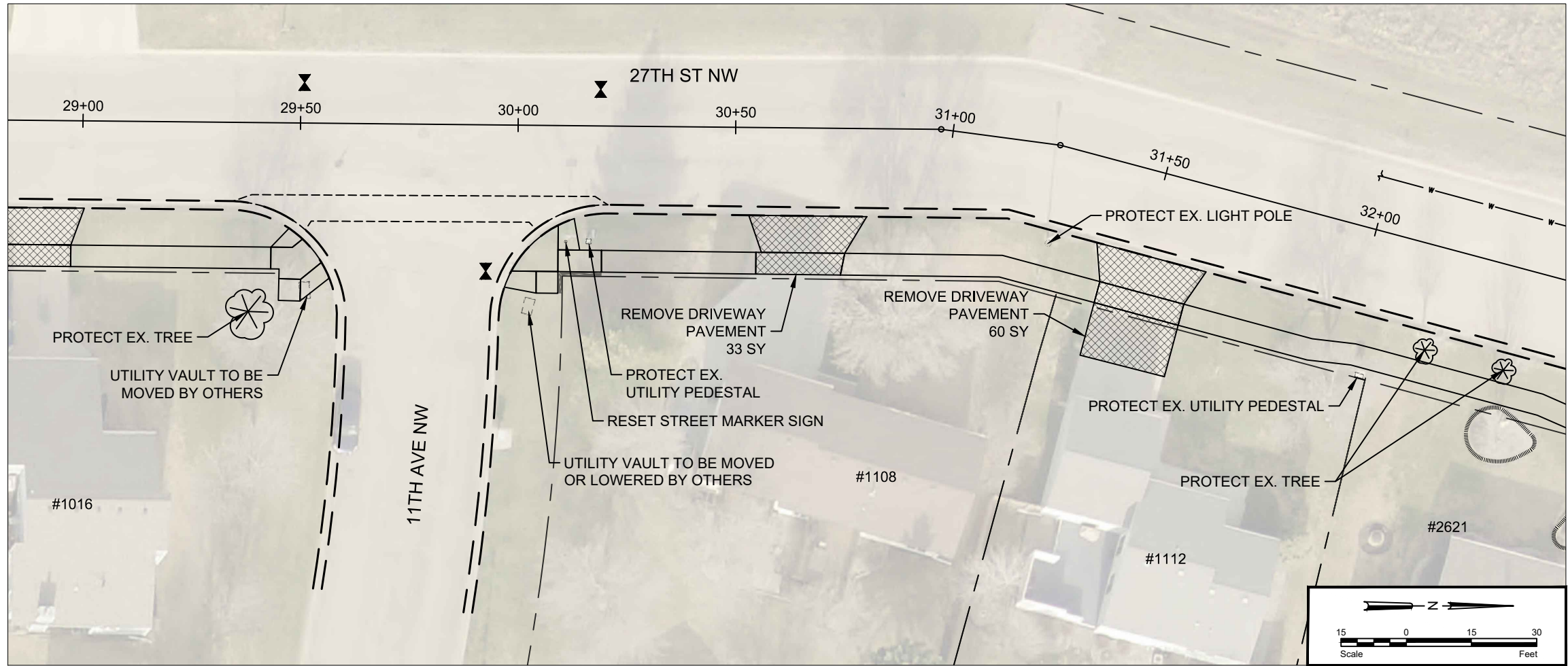
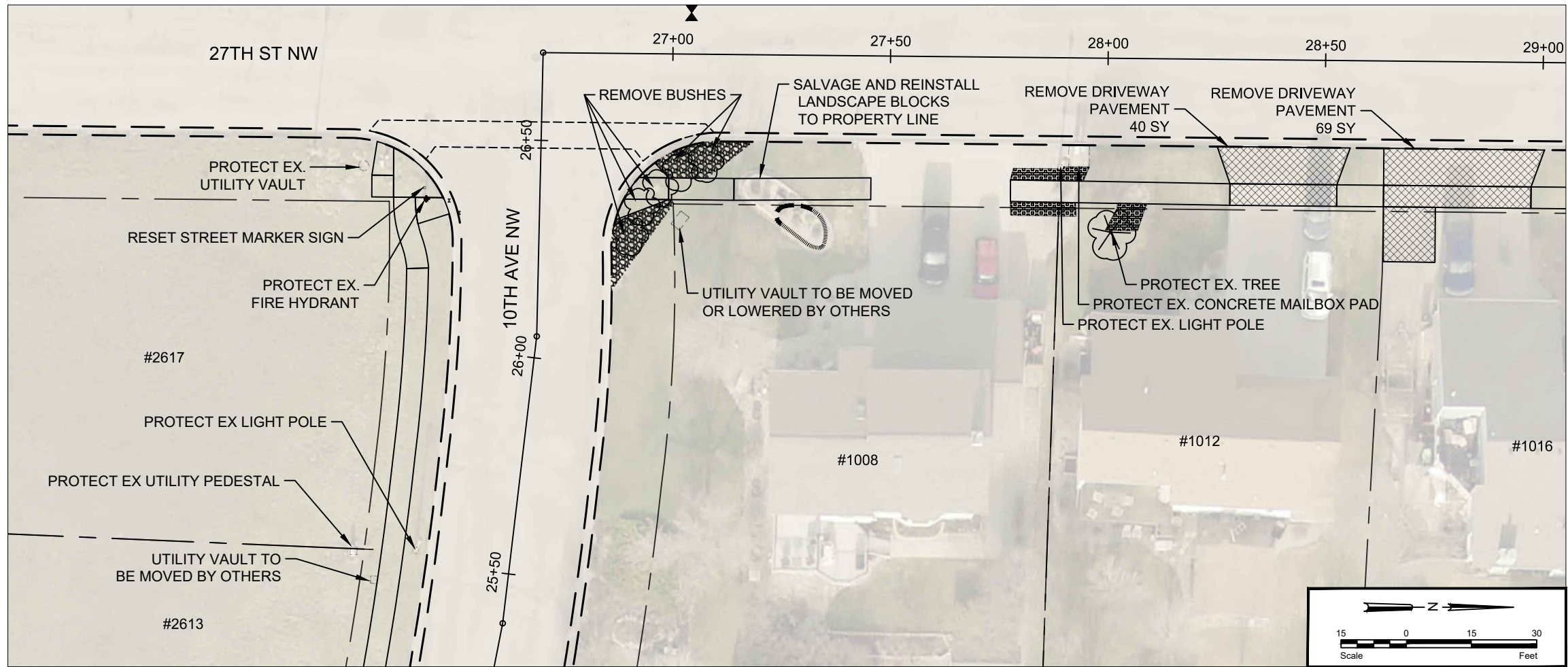
- REMOVE CURB & GUTTER
- REMOVE SIDEWALK/DRIVEWAY
- REMOVE ROCK/LANDSCAPING
- SALVAGE & REINSTALL ROCK
- REMOVE VALLEY GUTTER
- REMOVE BITUMINOUS PAVEMENT
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
JESSE HOPKINS
PE-29748
DATE 12/23/2022
NORTH DAKOTA

REMOVAL DETAIL
STA. 18+00 TO STA. 24+75
BEL AIR SRTS

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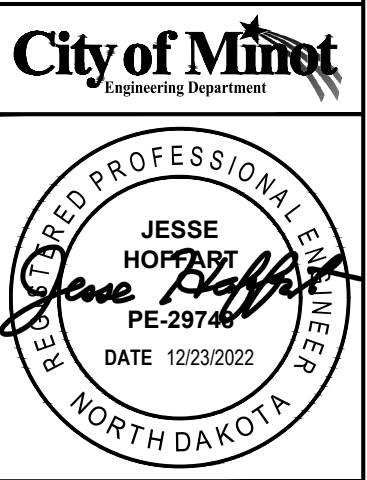


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	6
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	6

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	202

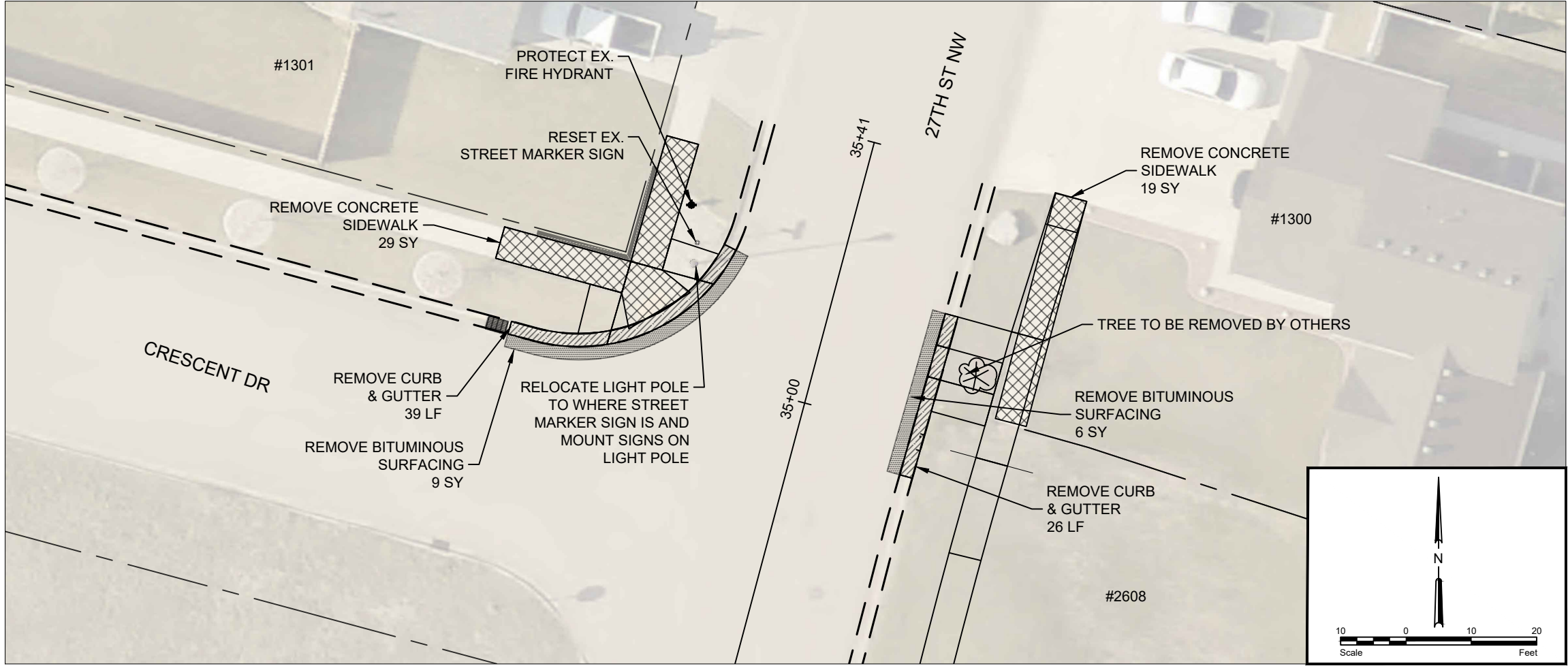
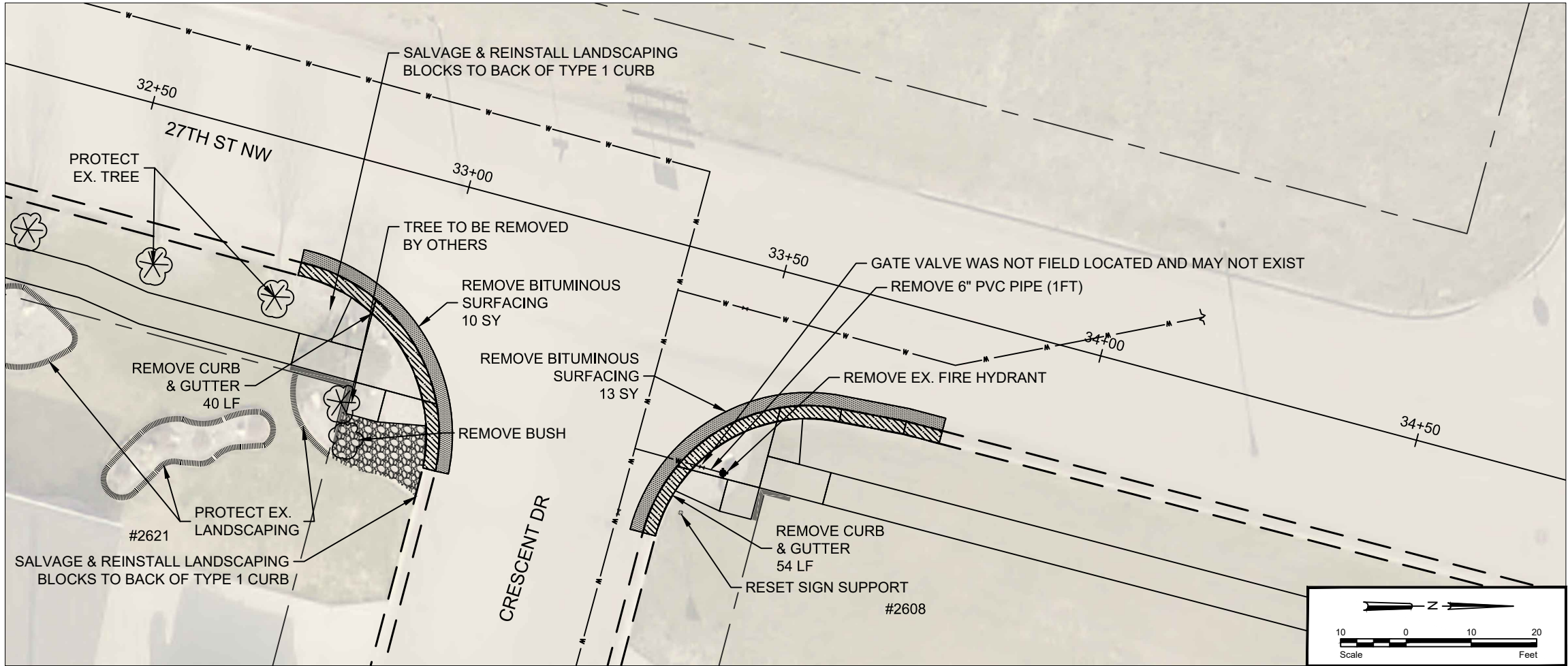
LEGEND

- 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



REMOVAL DETAIL
STA. 26+00 TO STA. 32+40
BEL AIR SRTS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	7
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	7

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	48
202	130	REMOVAL OF CURB AND GUTTER	LF	159
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	38
202	174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	1
724	430	REMOVE HYDRANT	EA	1
770	4540	RELOCATE LIGHT STANDARD	EA	1

LEGEND

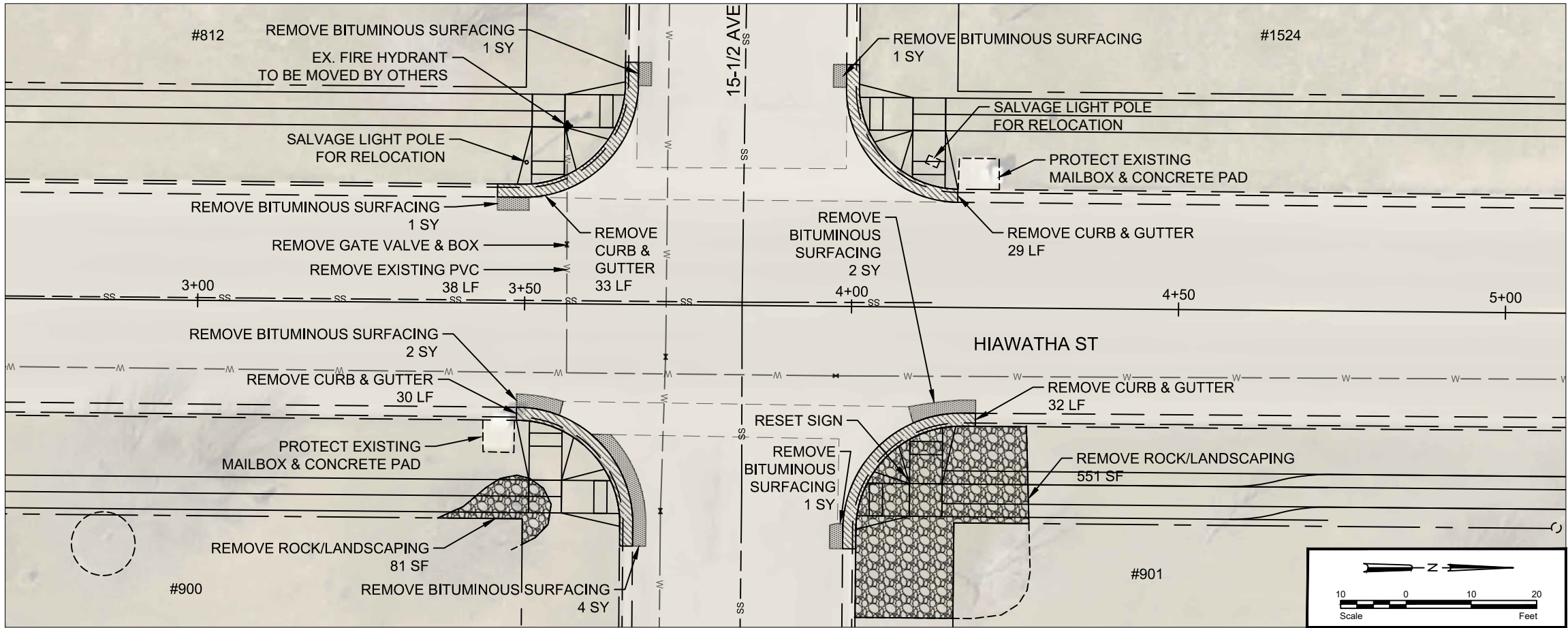
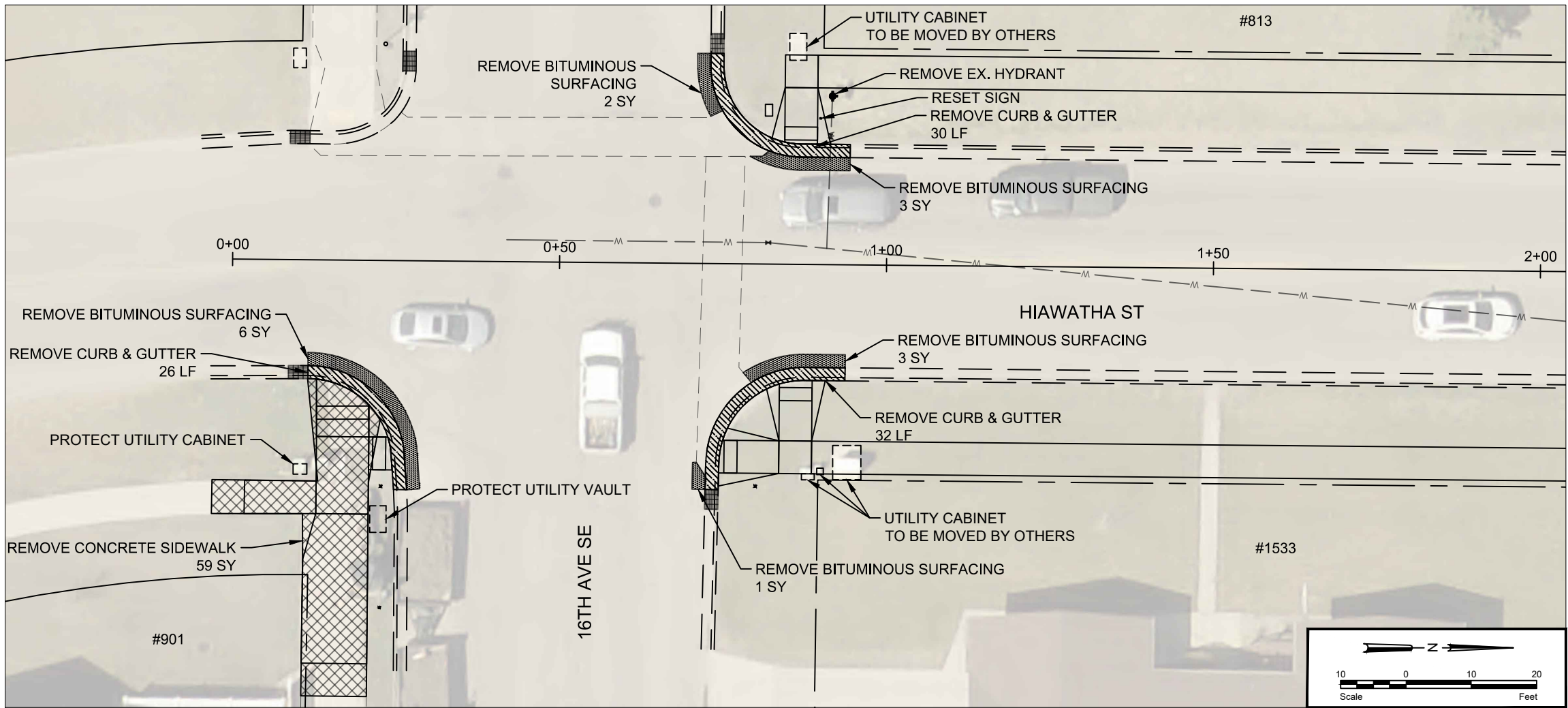
- REMOVE CURB & GUTTER
- REMOVE SIDEWALK/DRIVEWAY
- REMOVE ROCK/LANDSCAPING
- SALVAGE & REINSTALL ROCK
- REMOVE VALLEY GUTTER
- REMOVE BITUMINOUS PAVEMENT
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
JESSE HOPKINS
PE-29748
DATE 12/23/2022
NORTH DAKOTA

REMOVAL DETAIL
STA. 32+40 TO STA. 35+41
BEL AIR SRTS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	8
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	8

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	59
202	130	REMOVAL OF CURB AND GUTTER	LF	212
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	27
724	430	REMOVE HYDRANT	EA	2

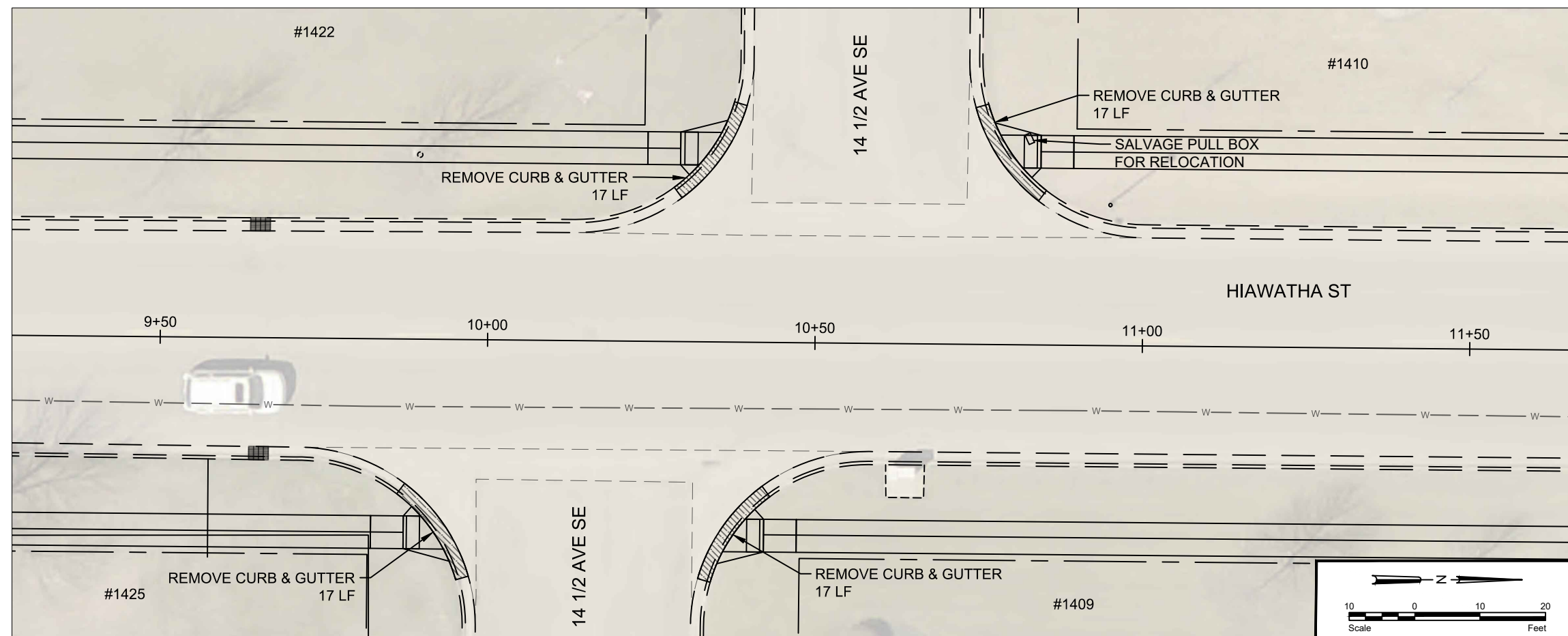
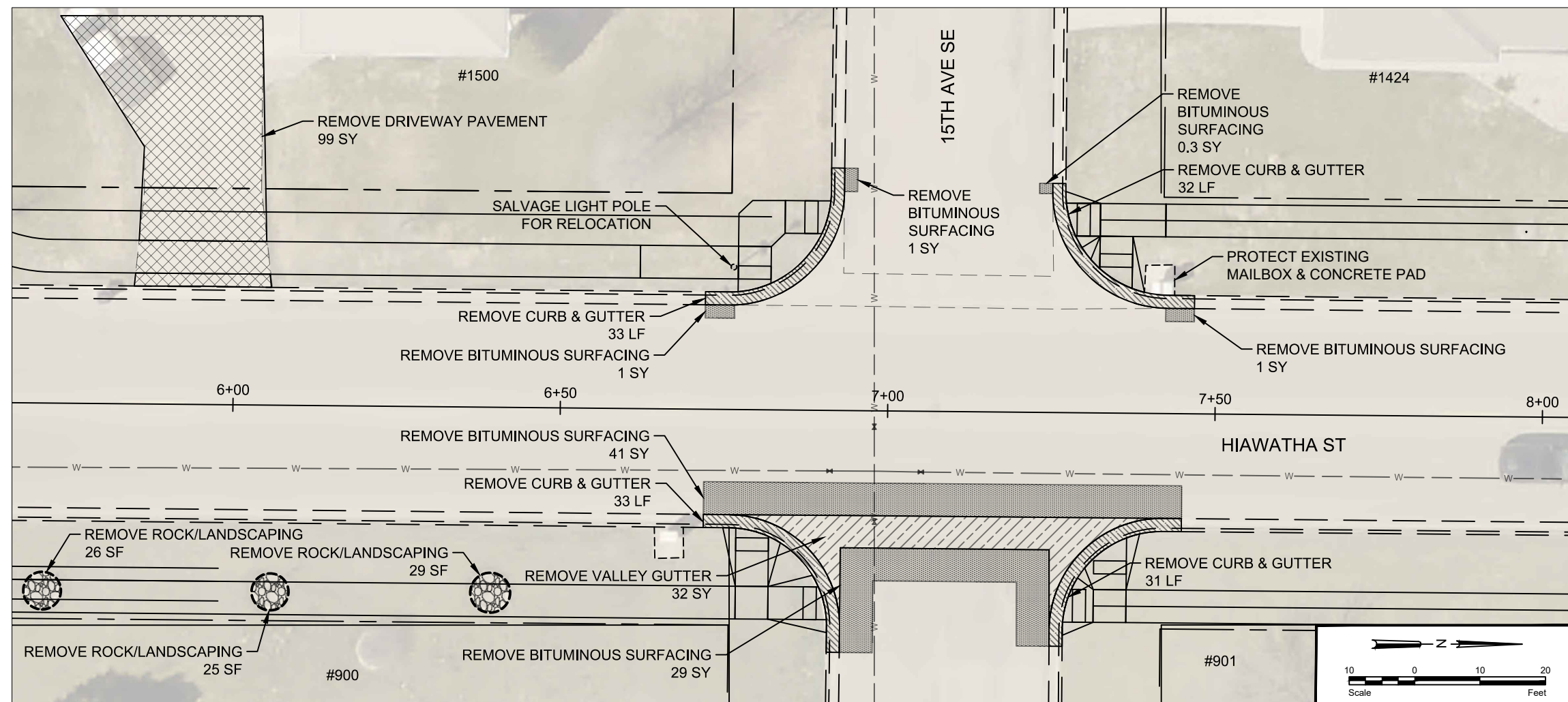
LEGEND

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

City of Minot
Engineering Department



REMOVAL DETAIL
STA. 0+00 TO STA. 5+00
WASHINGTON SRTS

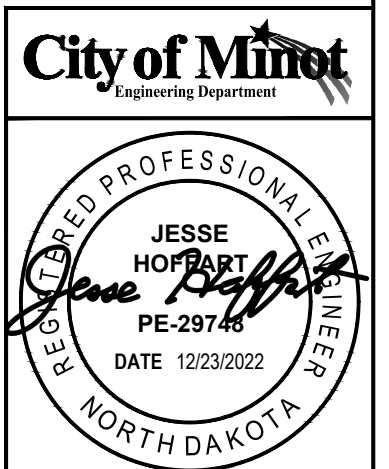


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	9
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	9

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	131
202	130	REMOVAL OF CURB AND GUTTER	LF	197
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	73

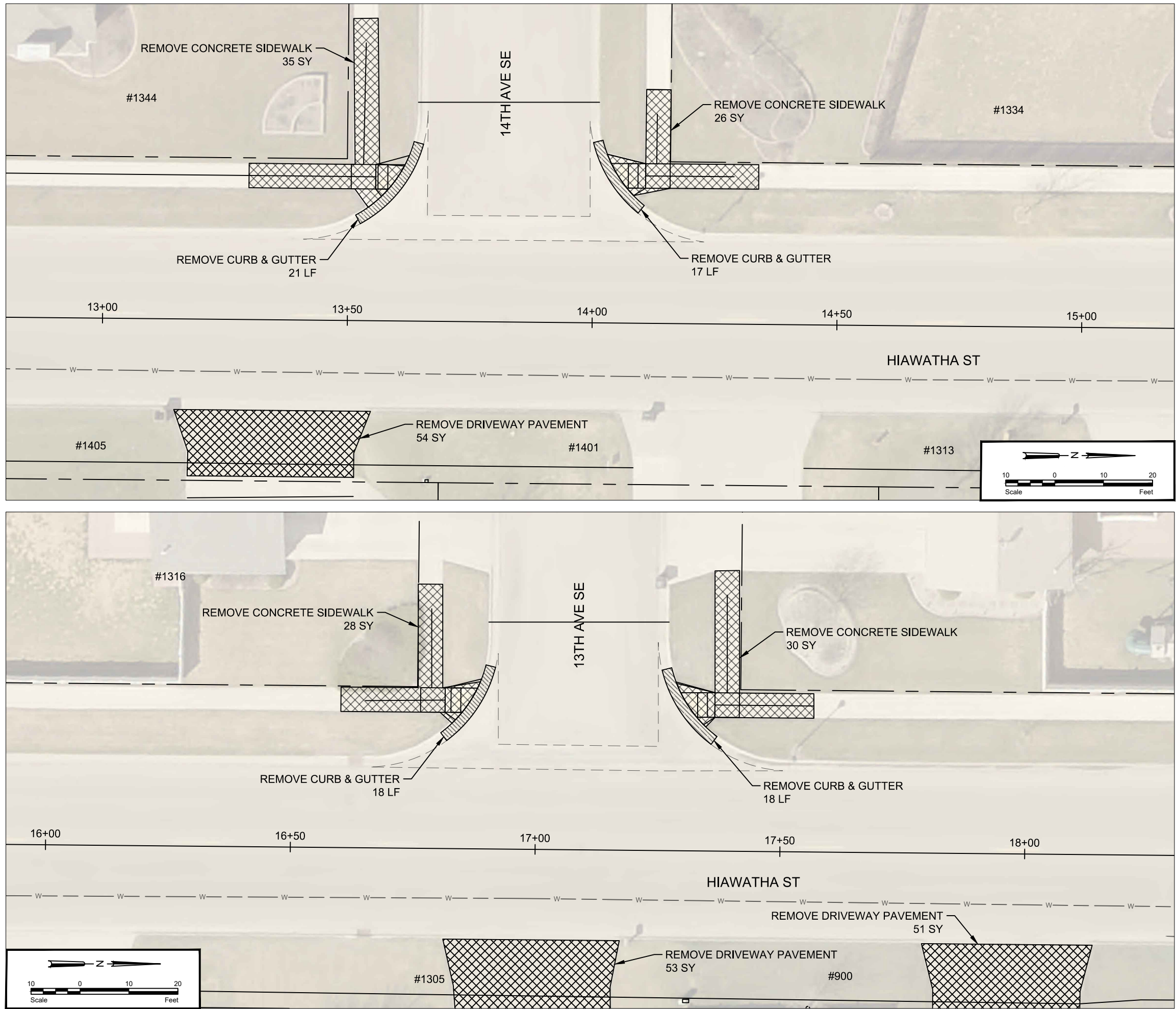
LEGEND

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



REMOVAL DETAIL
STA. 5+75 TO STA. 11+50
WASHINGTON SRTS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	10
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	10

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	277
202	130	REMOVAL OF CURB AND GUTTER	LF	74

LEGEND

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

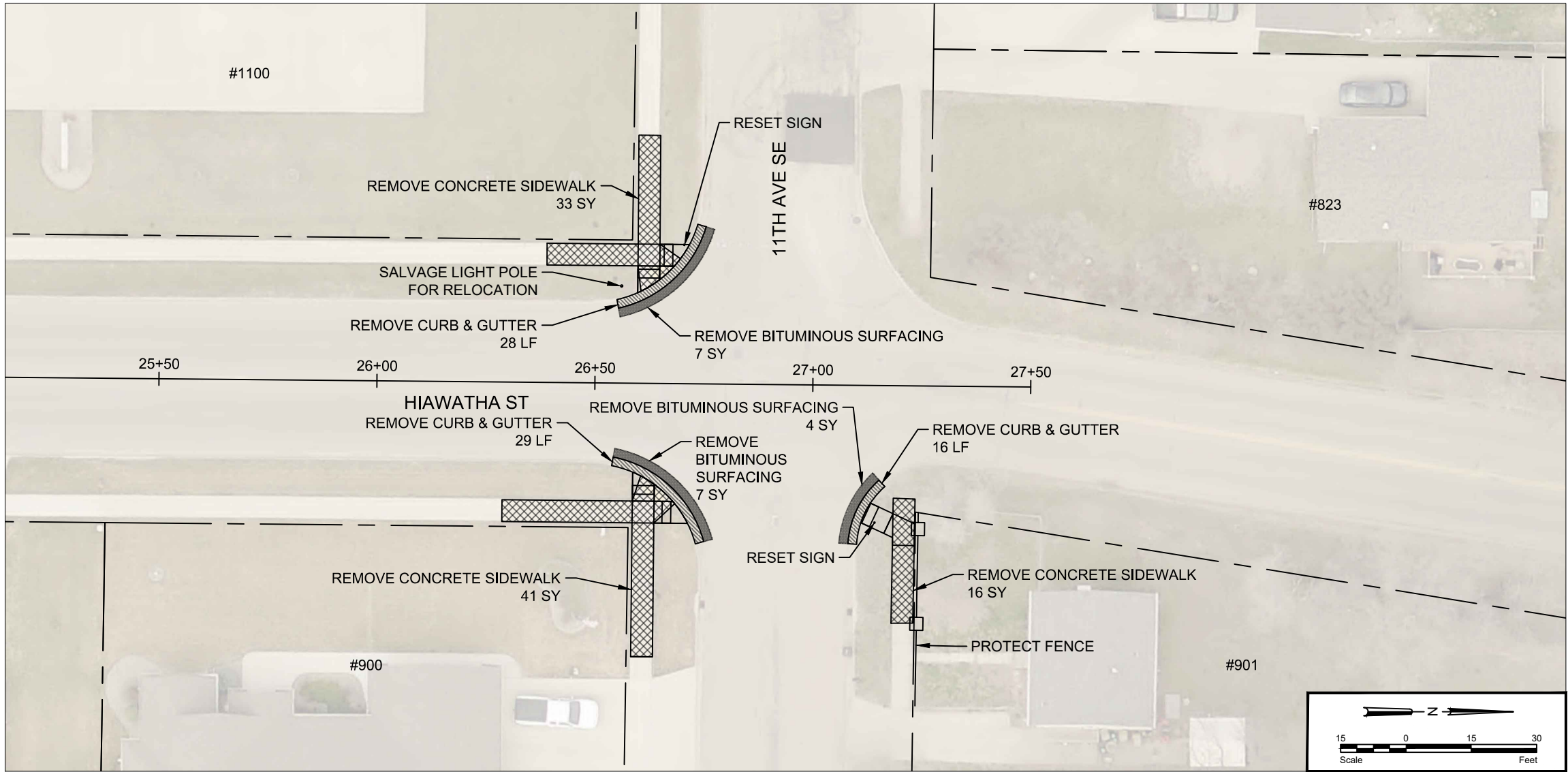
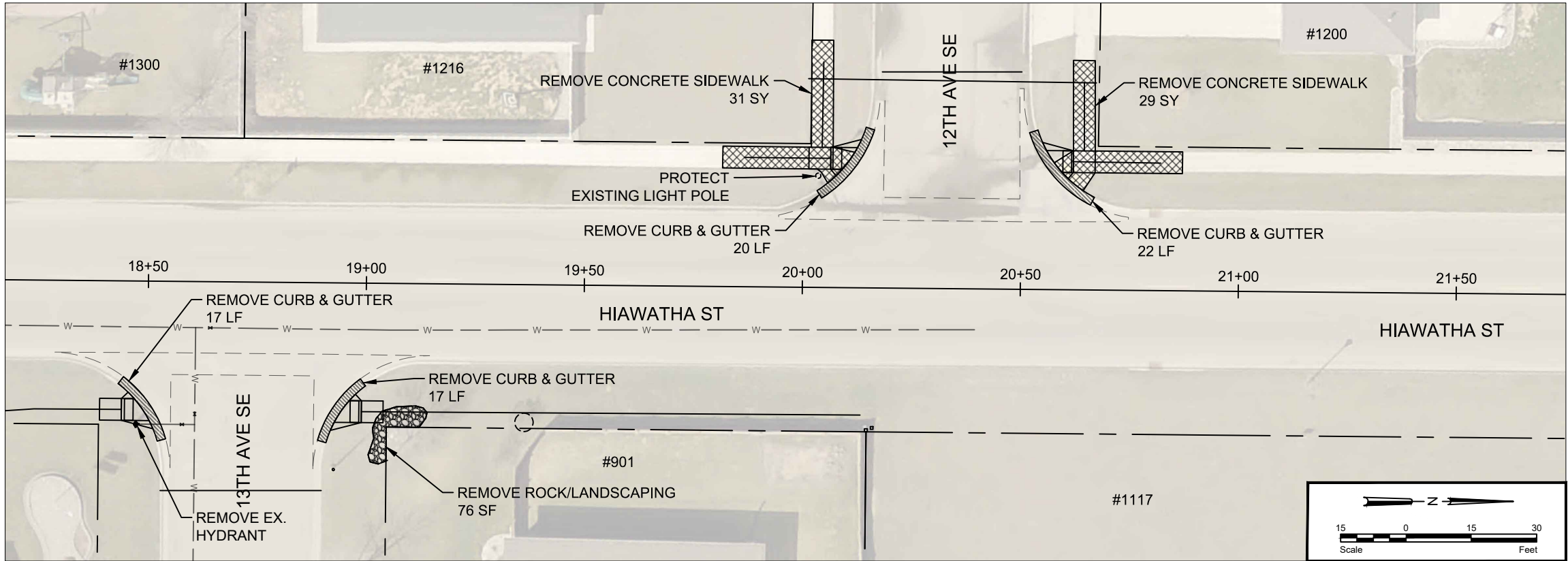
City of Minot
Engineering Department

JESSE HOPKINS
PE-29746
DATE 12/23/2022

REGISTERED PROFESSIONAL ENGINEER
NORTH DAKOTA

REMOVAL DETAIL
STA. 13+00 TO STA. 18+25
WASHINGTON SRTS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	40	11
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	40	11

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
201	330	CLEARING & GRUBBING	L SUM	0.5
202	114	REMOVAL OF CONCRETE PAVEMENT	SY	150
202	130	REMOVAL OF CURB AND GUTTER	LF	149
202	132	REMOVAL OF BITUMINOUS SURFACING	SY	18
724	430	REMOVE HYDRANT	EA	1

LEGEND

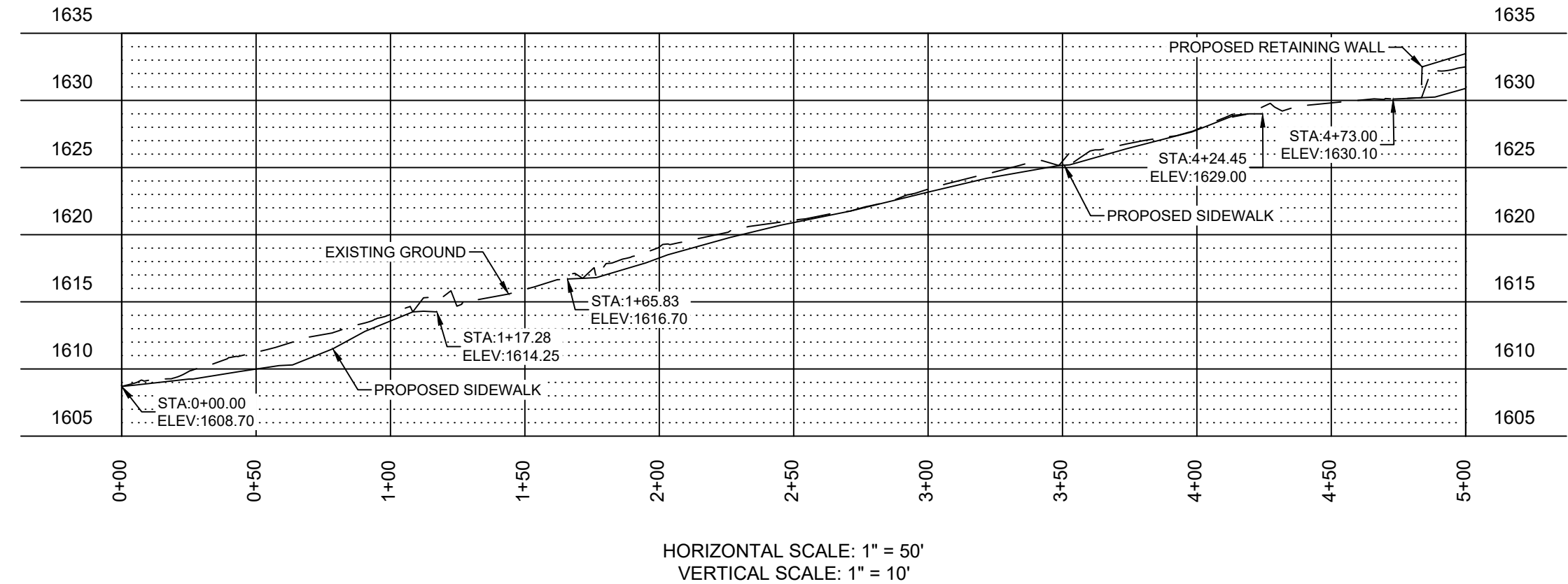
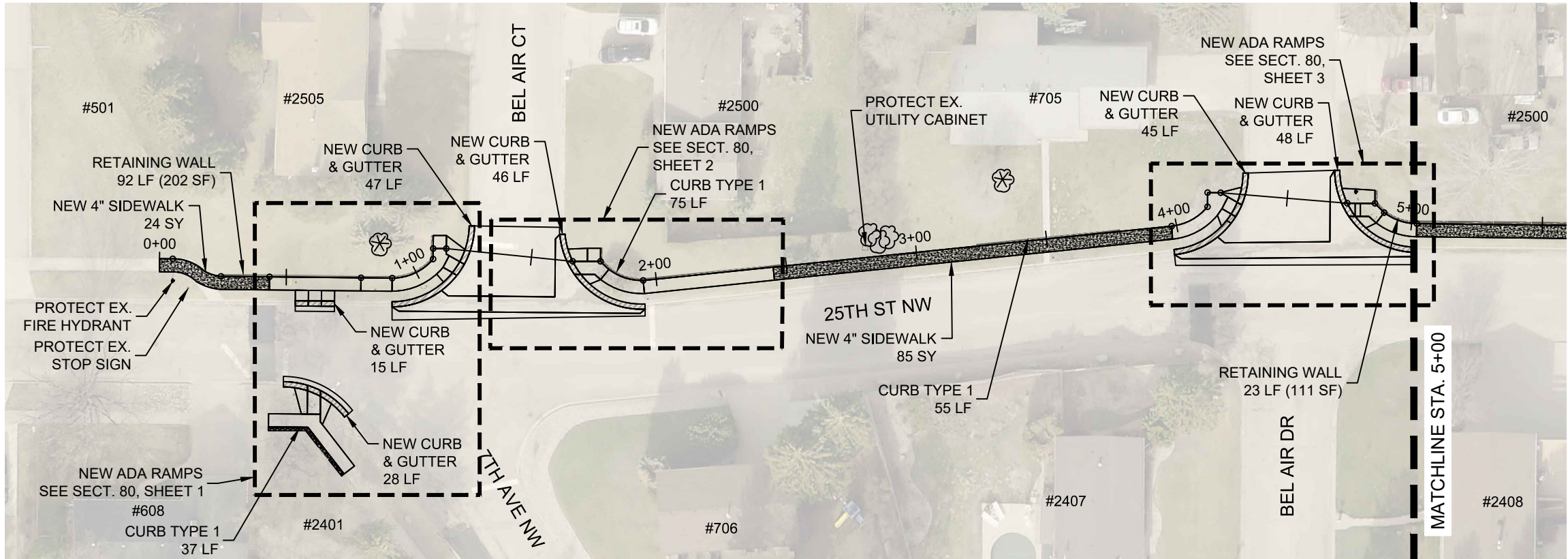
- REMOVE CURB & GUTTER
- REMOVE SIDEWALK
- REMOVE ROCK/LANDSCAPING
- REMOVE VALLEY GUTTER
- REMOVE BITUMINOUS PAVEMENT
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER

City of Minot
Engineering Department



REMOVAL DETAIL
STA. 18+25 TO STA. 27+50
WASHINGTON SRTS

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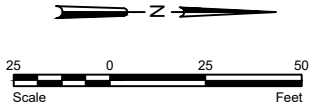


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	61
748	100	CURB & GUTTER	LF	229
748	520	CURB - TYPE 1	LF	167
750	115	SIDEWALK CONCRETE 4 IN	SY	109
930	9543	RETAINING WALL	SF	313

LEGEND

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

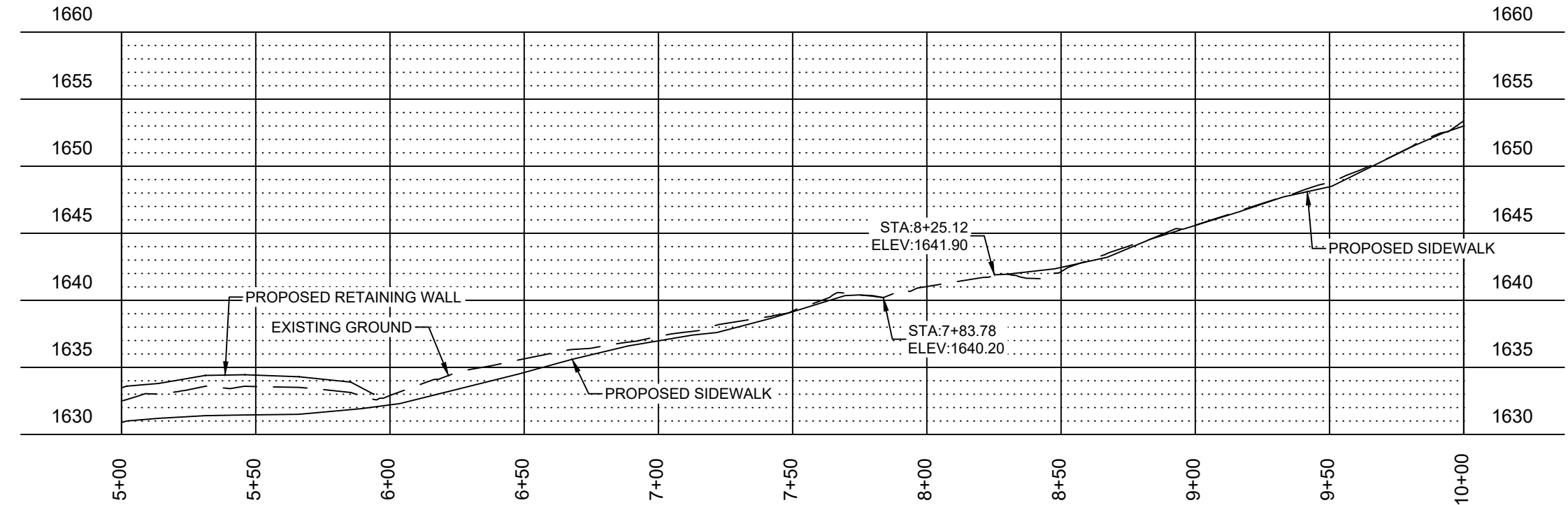
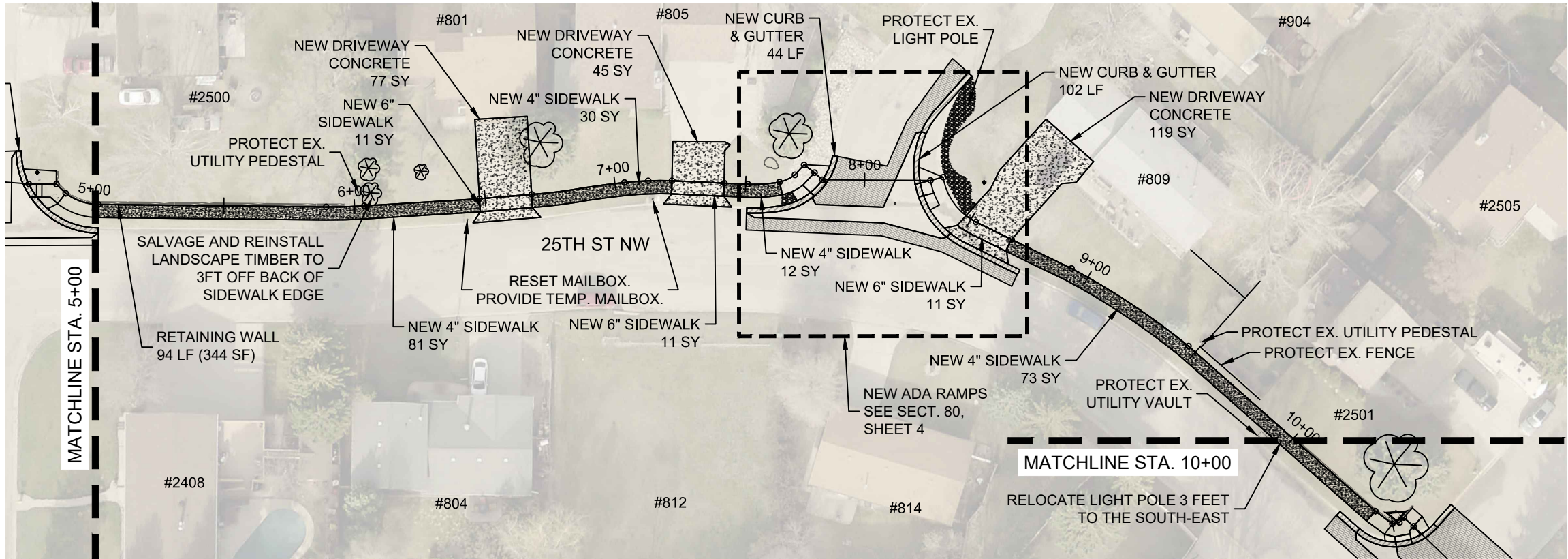


City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFERT
PE-29748
DATE 12/23/2022
NORTH DAKOTA

PLAN & PROFILE
25TH ST NW
STA 0+00 TO STA 5+00

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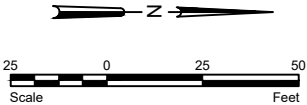
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	31
748	100	CURB & GUTTER	LF	146
750	115	SIDEWALK CONCRETE 4 IN	SY	196
750	115	SIDEWALK CONCRETE 6 IN	SY	33
750	1000	DRIVEWAY CONCRETE	SY	241
930	9543	RETAINING WALL	SF	344

LEGEND

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

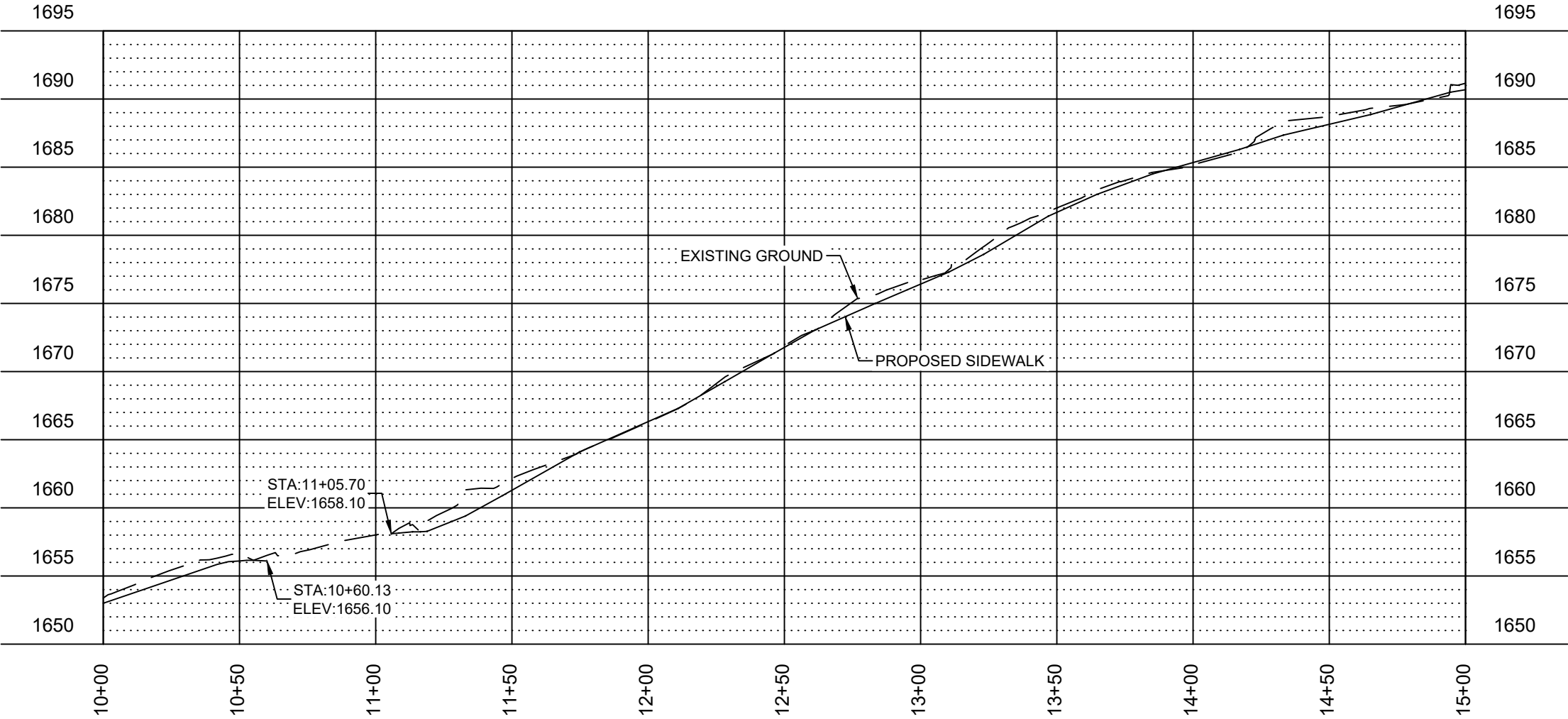
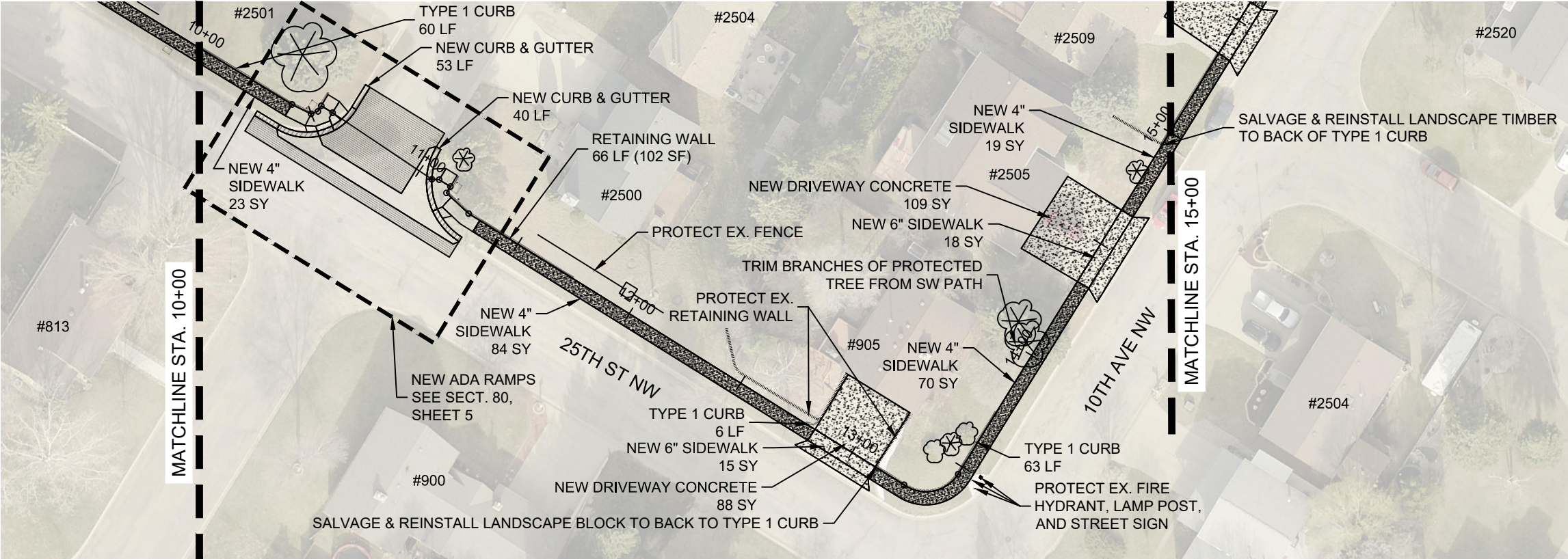


City of Minot
Engineering Department



PLAN & PROFILE
25TH ST NW
STA 5+00 TO STA 10+00

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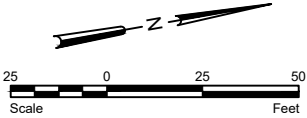
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	3
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	3

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	35
748	100	CURB & GUTTER	LF	93
748	520	CURB - TYPE 1	LF	130
750	115	SIDEWALK CONCRETE 4 IN	SY	196
750	115	SIDEWALK CONCRETE 6 IN	SY	33
750	1000	DRIVEWAY CONCRETE	SY	197
930	9543	RETAINING WALL	SF	102

LEGEND

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



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

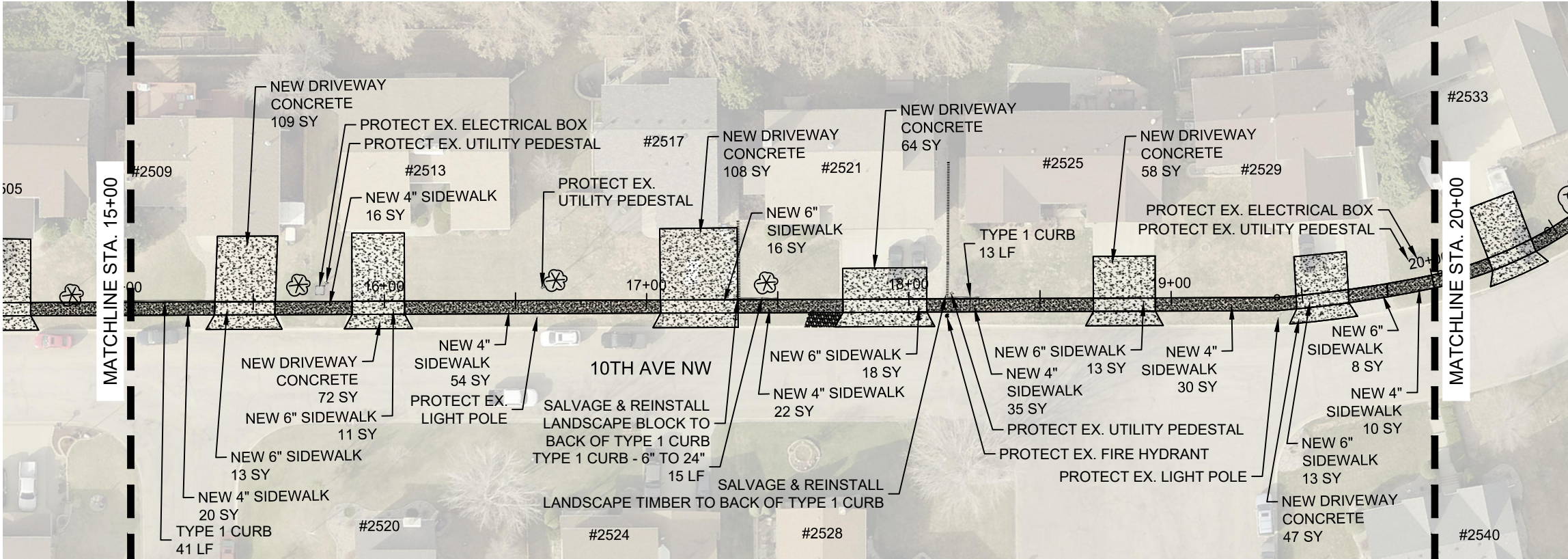
JESSE HOFFART
PE-29746

DATE 12/23/2022

NORTH DAKOTA

PLAN & PROFILE
25TH ST NW & 10TH AVE NW
STA 10+00 TO STA 15+00

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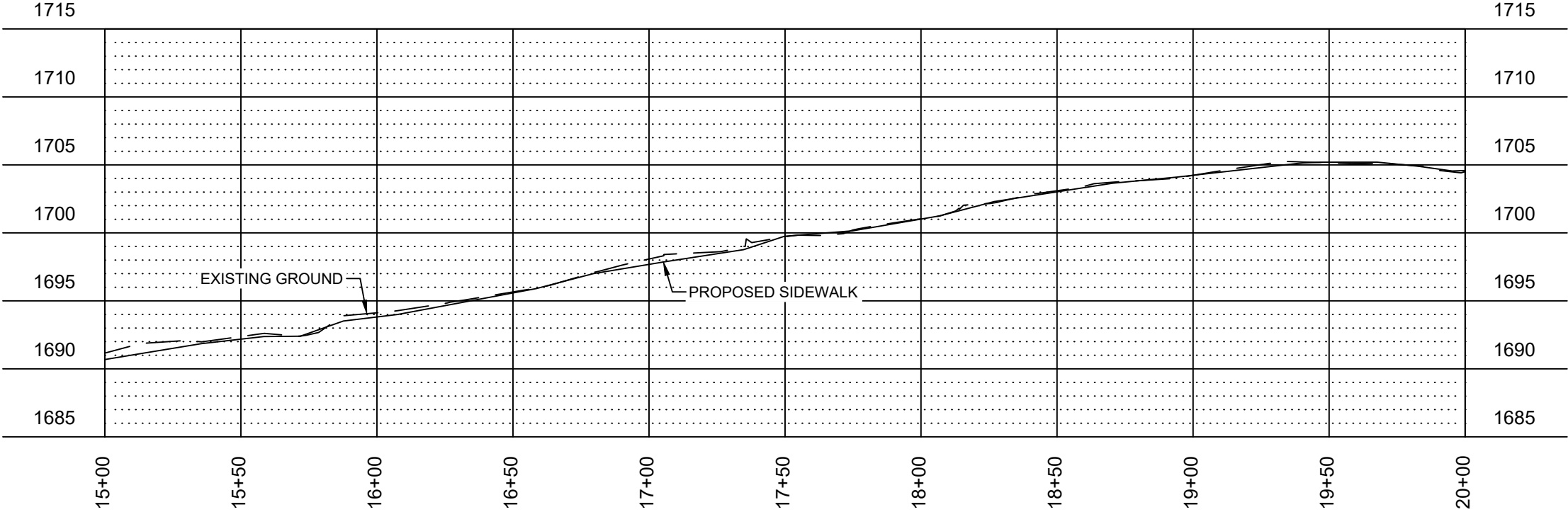


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	4
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	4

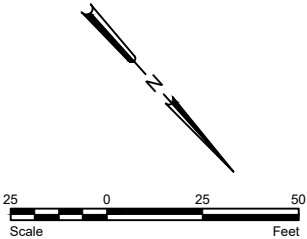
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748	520	CURB - TYPE 1	LF	69
750	115	SIDEWALK CONCRETE 4 IN	SY	187
750	115	SIDEWALK CONCRETE 6 IN	SY	92
750	1000	DRIVEWAY CONCRETE	SY	458

LEGEND

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



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

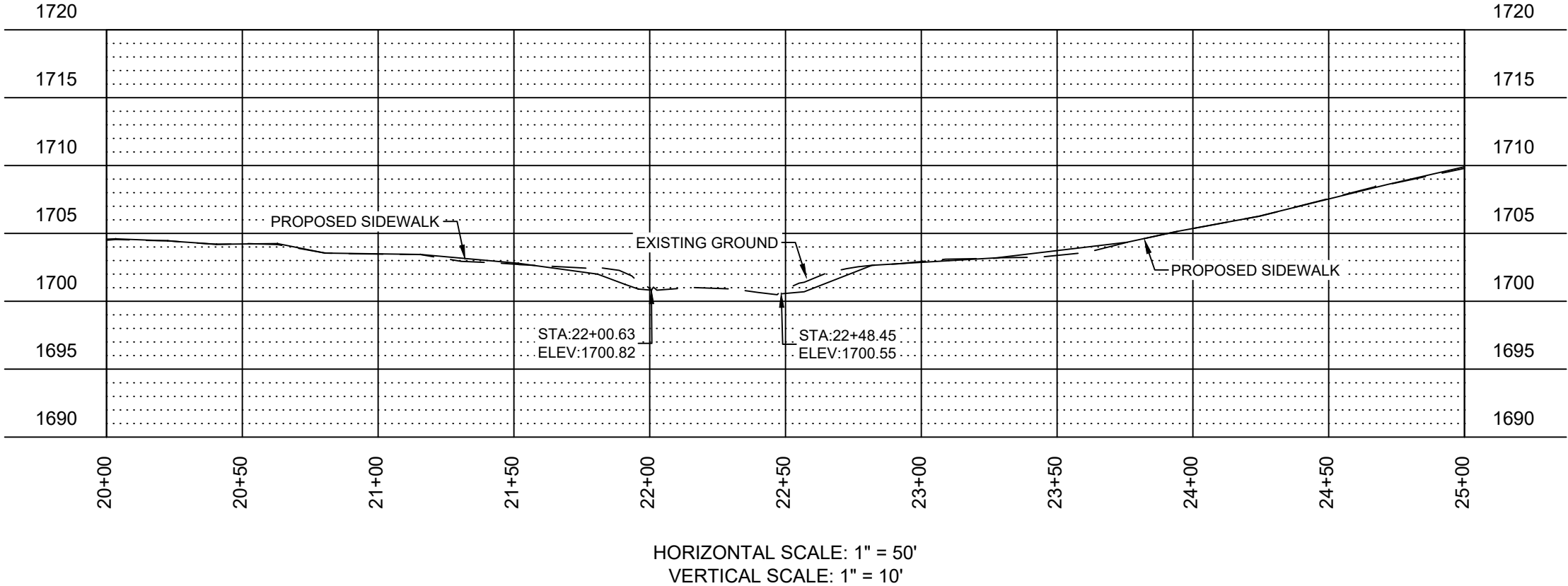
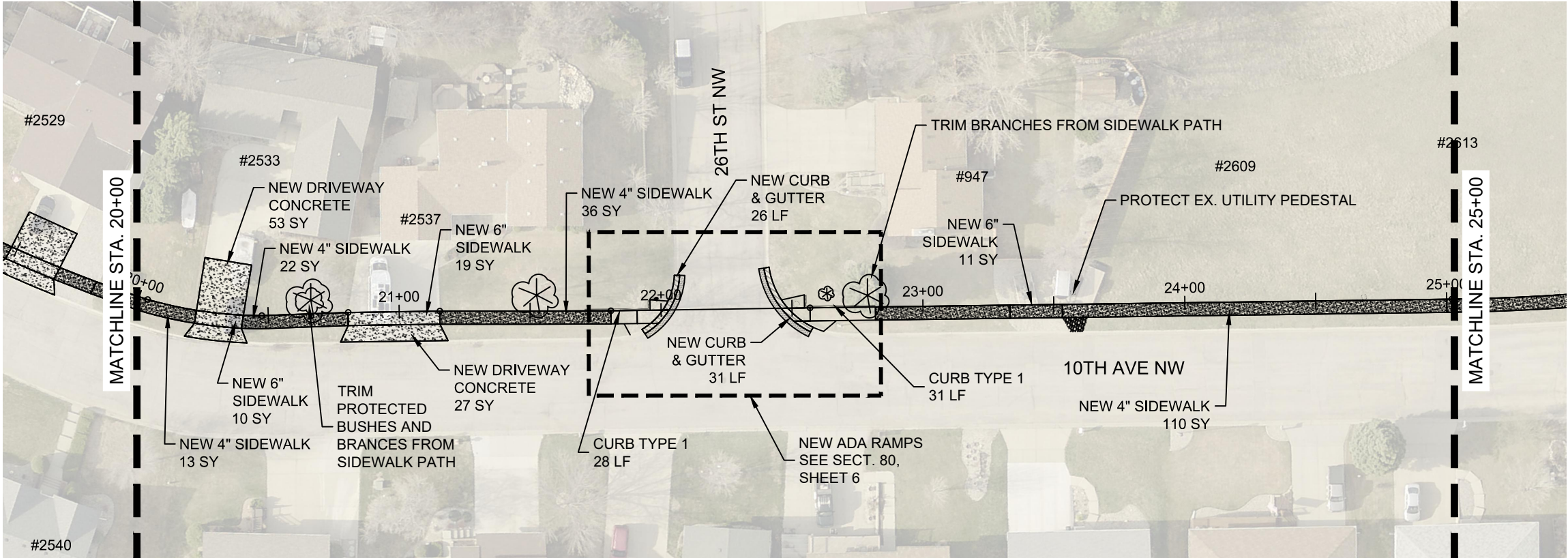


City of Minot
Engineering Department



PLAN & PROFILE
10TH AVE NW
STA 15+00 TO STA 20+00

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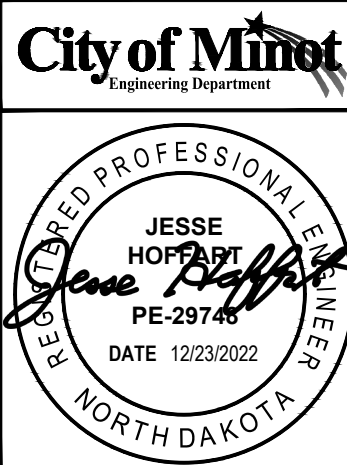
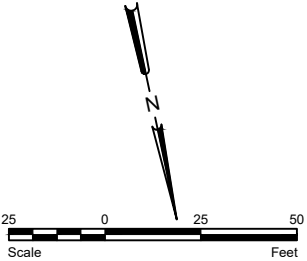


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	5
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	5

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	3
748	100	CURB & GUTTER	LF	57
748	520	CURB - TYPE 1	LF	59
750	115	SIDEWALK CONCRETE 4 IN	SY	181
750	115	SIDEWALK CONCRETE 6 IN	SY	40
750	1000	DRIVEWAY CONCRETE	SY	80

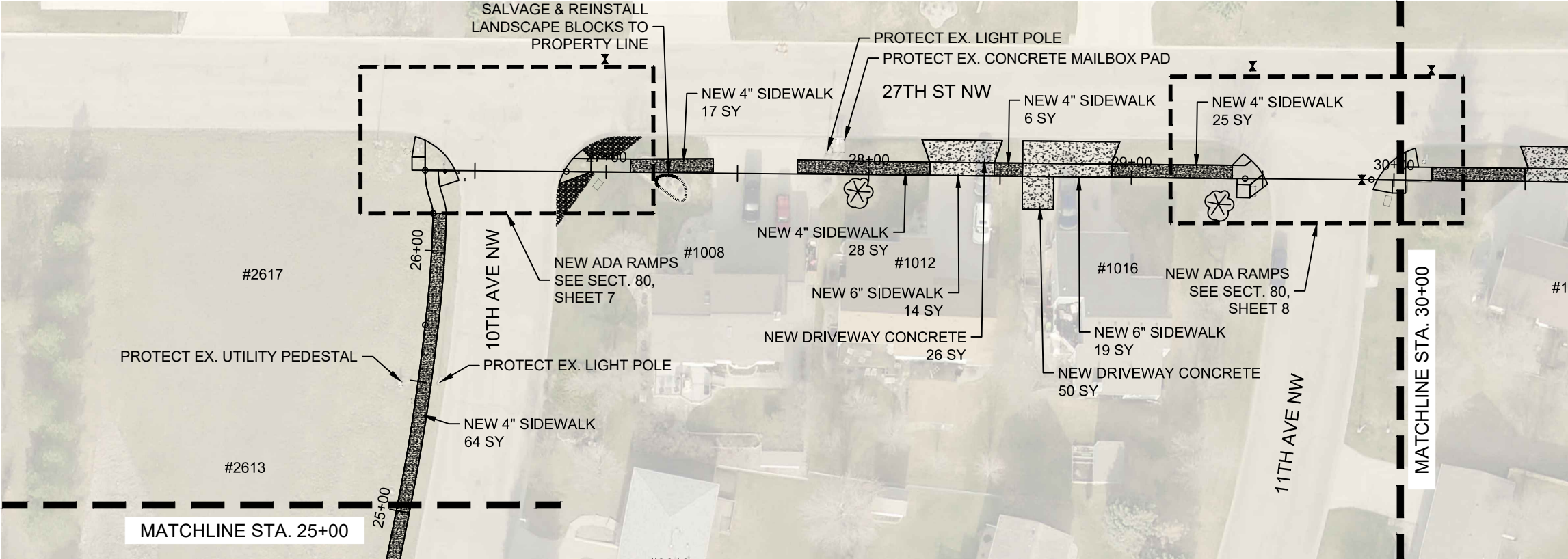
LEGEND

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



PLAN & PROFILE
10TH AVE NW
STA 20+00 TO STA 25+00

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

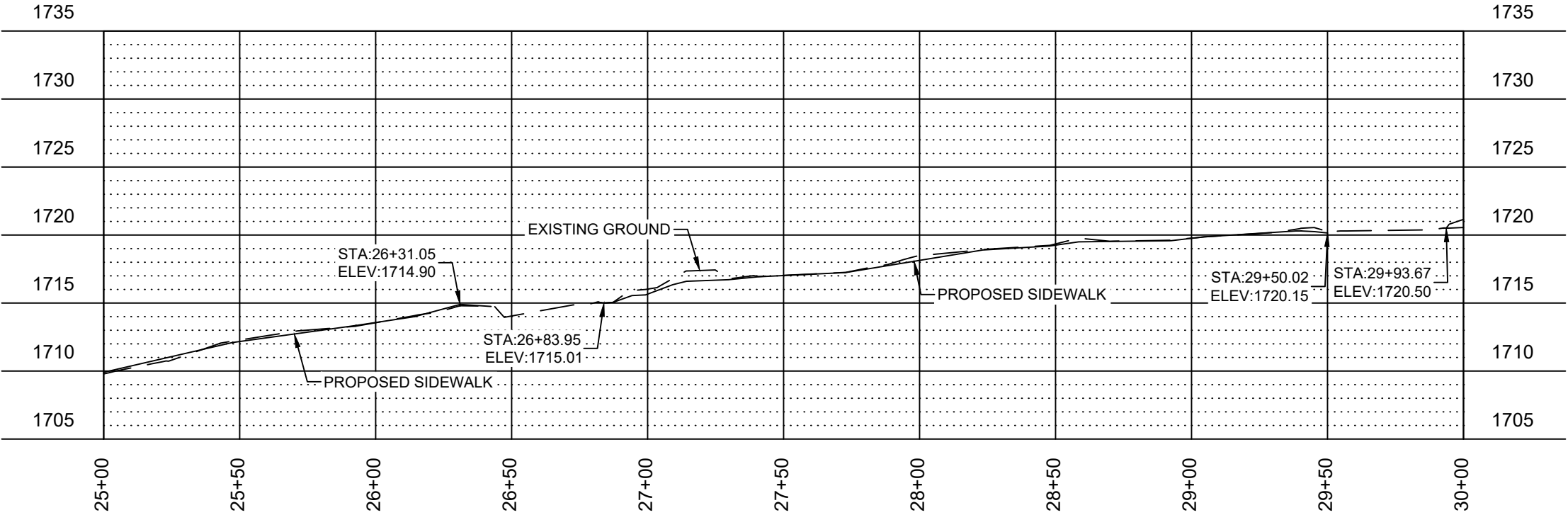
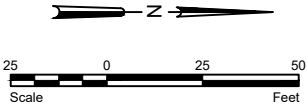


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	6
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	6

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	115	SIDEWALK CONCRETE 4 IN	SY	140
750	115	SIDEWALK CONCRETE 6 IN	SY	33
750	1000	DRIVEWAY CONCRETE	SY	76

LEGEND

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



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

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOPKINS

PE-29748

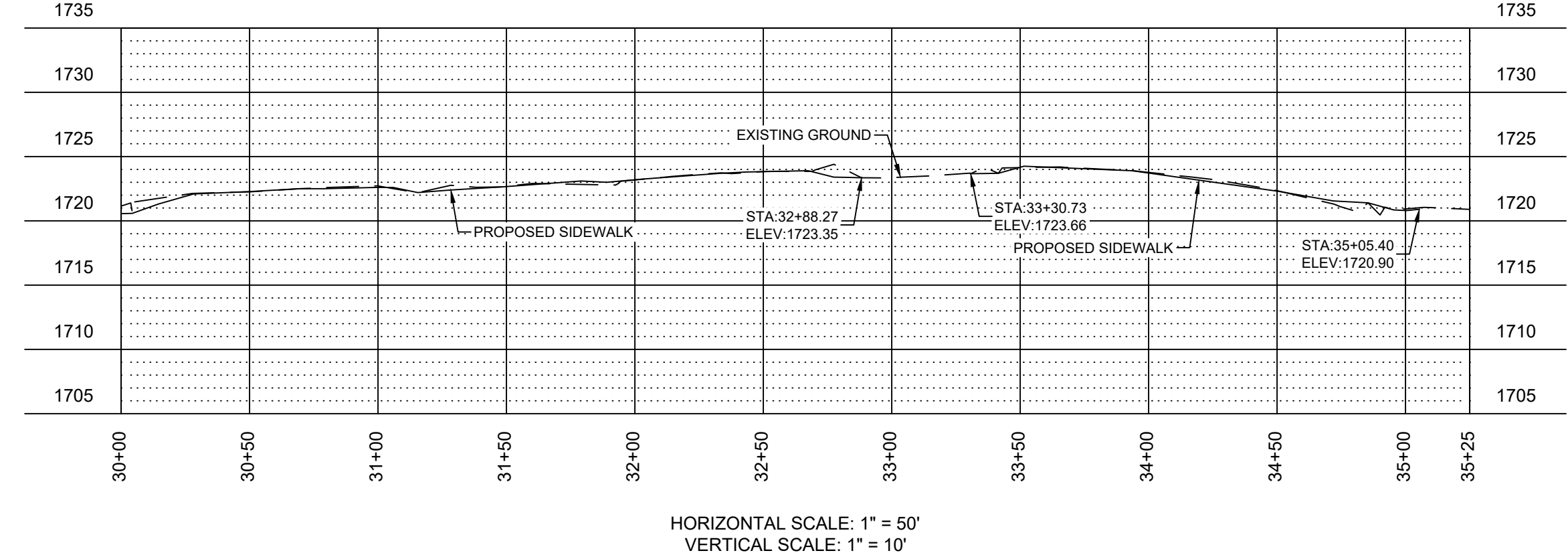
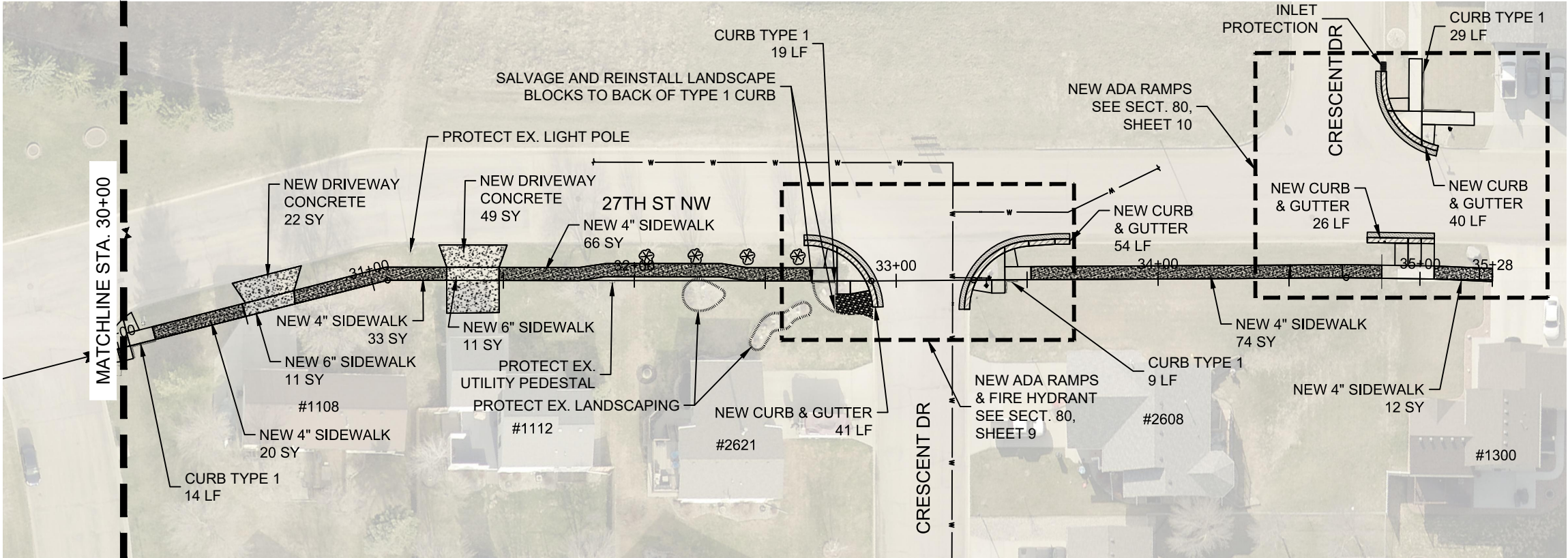
DATE 12/23/2022

NORTH DAKOTA

PLAN & PROFILE
27TH ST NW
STA 25+00 TO STA 30+00

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11/18/2022

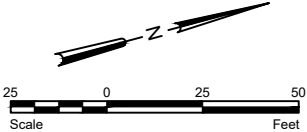


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	7
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	7

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	8
708	1540	INLET PROTECTION - SPECIAL	EA	1
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	1
748	100	CURB & GUTTER	LF	161
748	520	CURB - TYPE 1	LF	62
750	115	SIDEWALK CONCRETE 4 IN	SY	205
750	115	SIDEWALK CONCRETE 6 IN	SY	22
750	1000	DRIVEWAY CONCRETE	SY	71

LEGEND

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

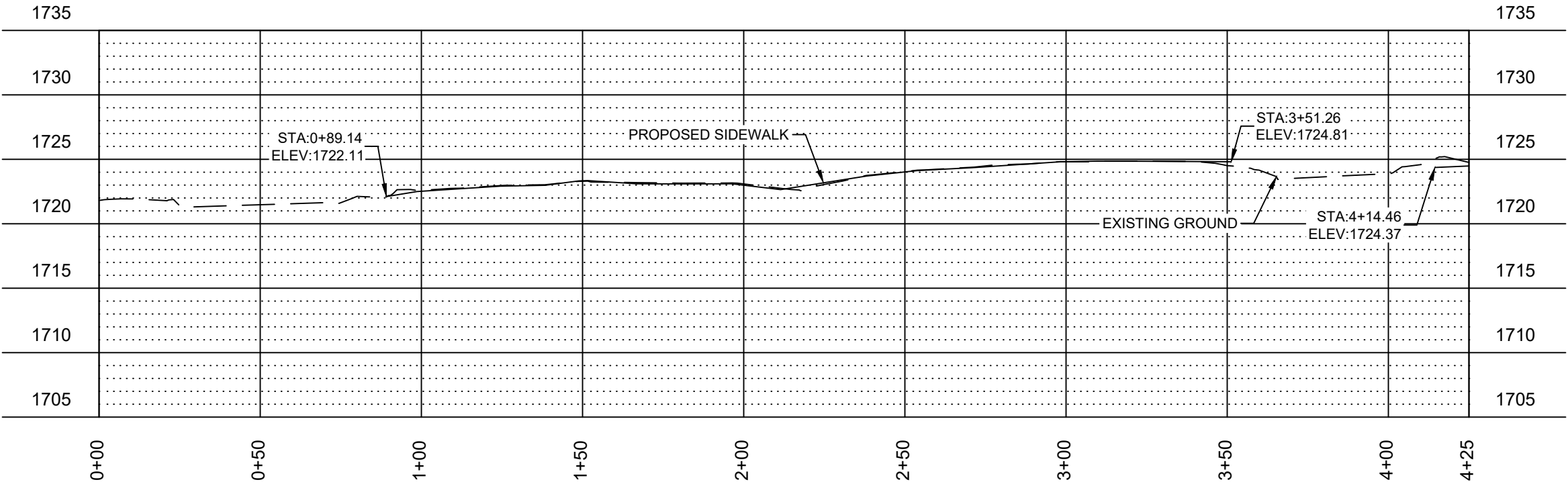
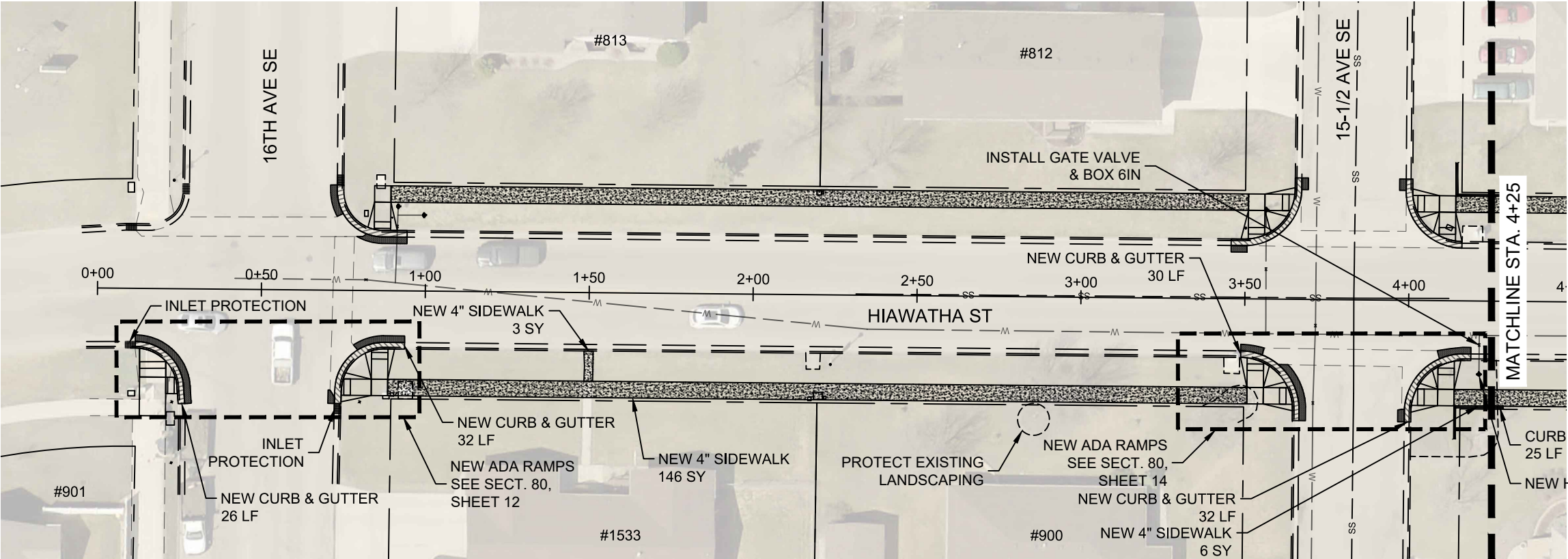


City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFART
PE-29748
DATE 12/23/2022
NORTH DAKOTA

PLAN & PROFILE
27TH ST NW
STA 30+00 TO STA 35+28

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11/18/2022



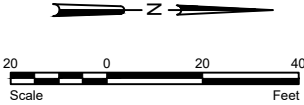
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	8
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	8

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	4
708	1540	INLET PROTECTION - SPECIAL	EA	2
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	2
724	411	NEW HYDRANT	EA	1
724	810	WATERMAIN 6IN PVC	LF	12
748	100	CURB & GUTTER	LF	120
748	520	CURB - TYPE 1	LF	25
750	115	SIDEWALK CONCRETE 4 IN	SY	155

LEGEND

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

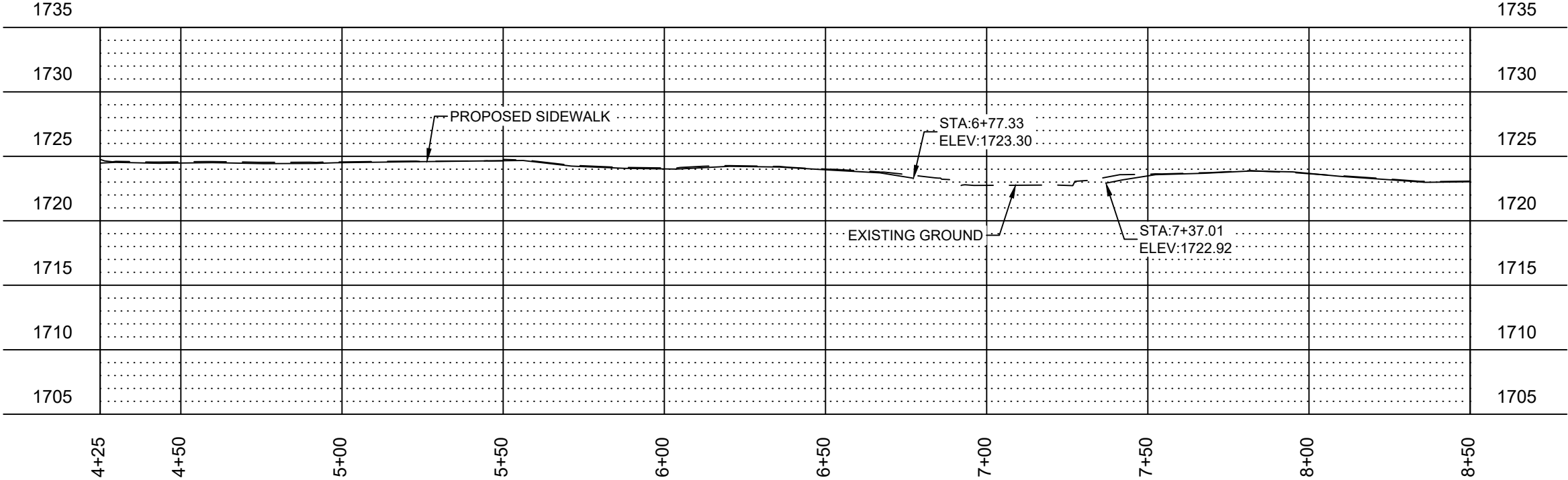
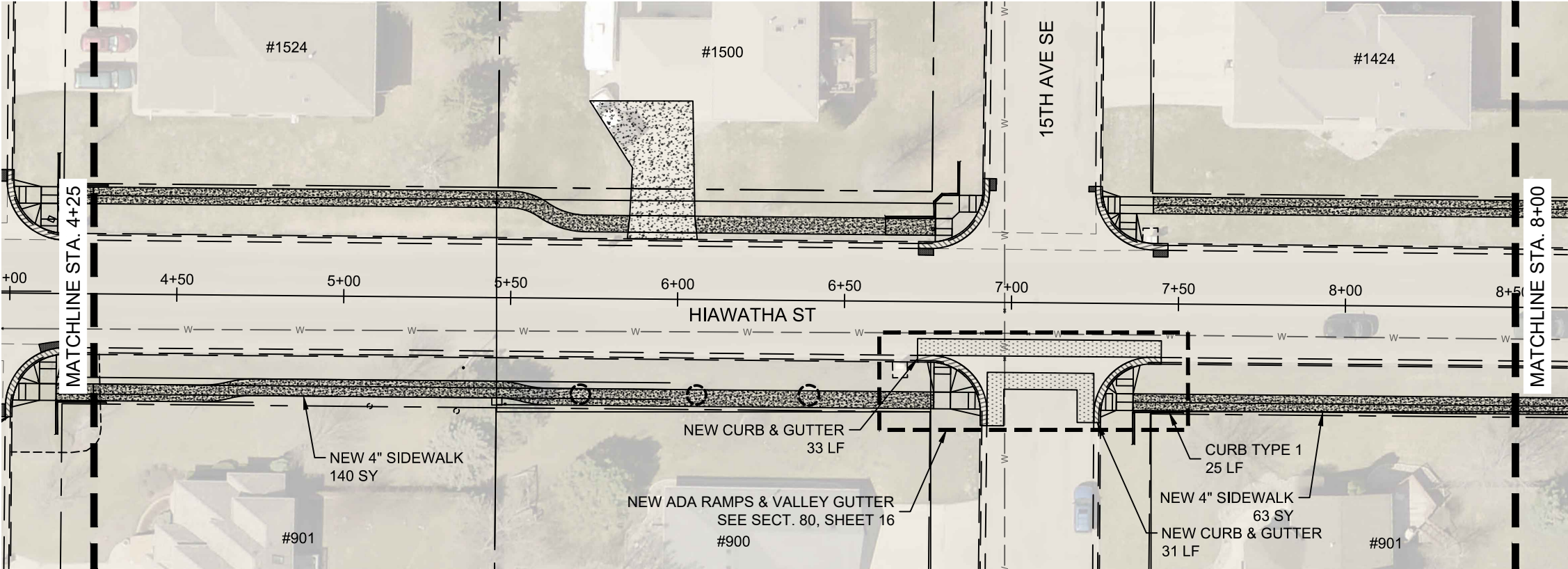


City of Minot
Engineering Department

RED STAMPED PROFESSIONAL ENGINEER
JESSE HOFFART
PE-29748
DATE 12/23/2022
NORTH DAKOTA

PLAN & PROFILE
HIAWATHA ST EAST SIDE
STA 0+00 TO STA 4+25

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

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	9
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	9

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	15
748	100	CURB & GUTTER	LF	64
748	520	CURB - TYPE 1	LF	25
750	115	SIDEWALK CONCRETE 4 IN	SY	203

LEGEND

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

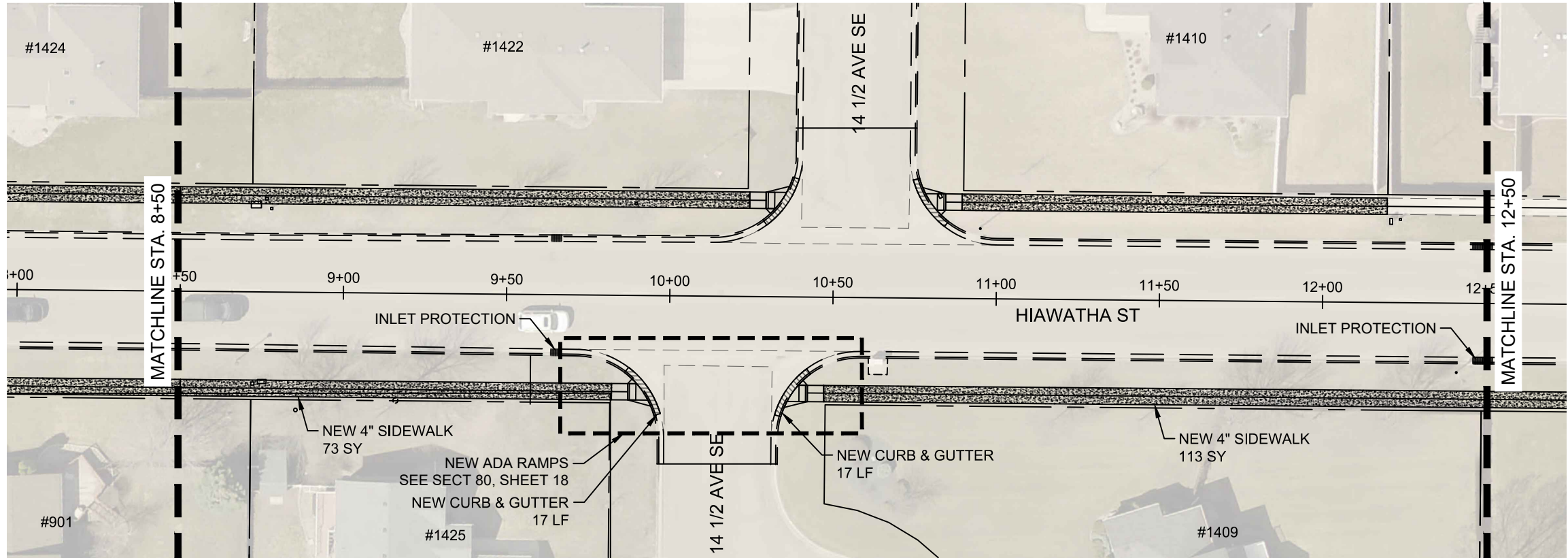


City of Minot
Engineering Department



PLAN & PROFILE
HIAWATHA ST EAST SIDE
STA 4+25 TO STA 8+50

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

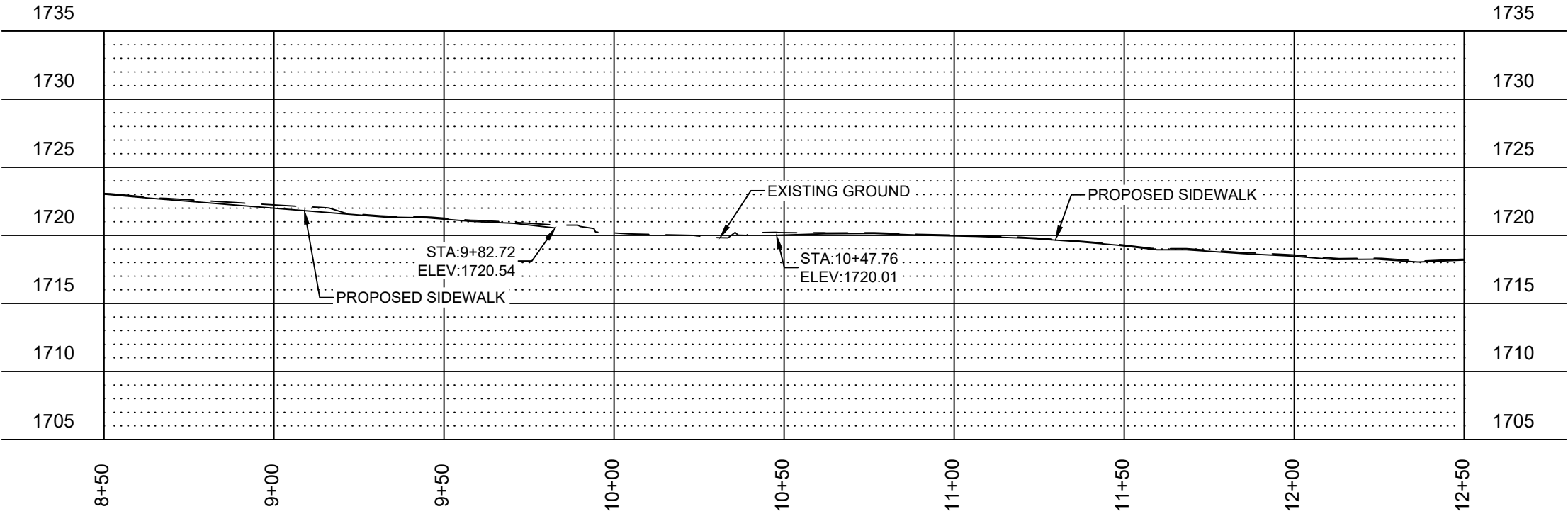
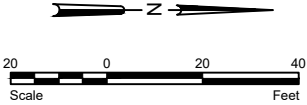


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	10
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	10

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
708	1540	INLET PROTECTION - SPECIAL	EA	2
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	2
748	100	CURB & GUTTER	LF	34
750	115	SIDEWALK CONCRETE 4 IN	SY	186

LEGEND

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



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

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

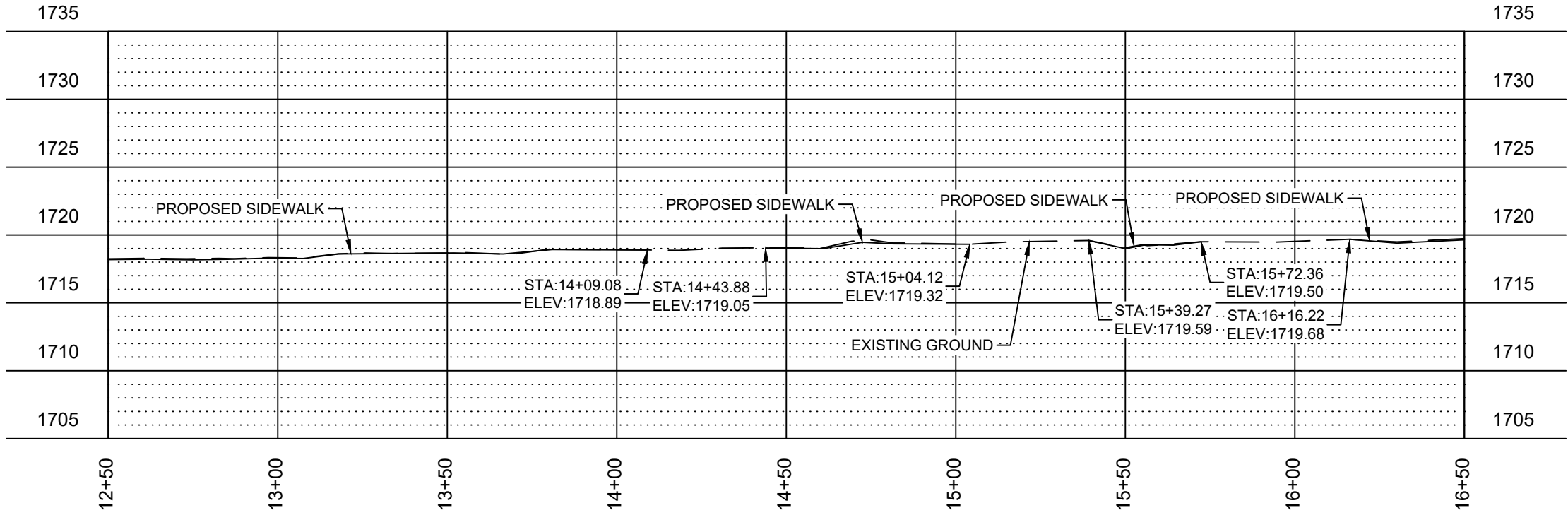
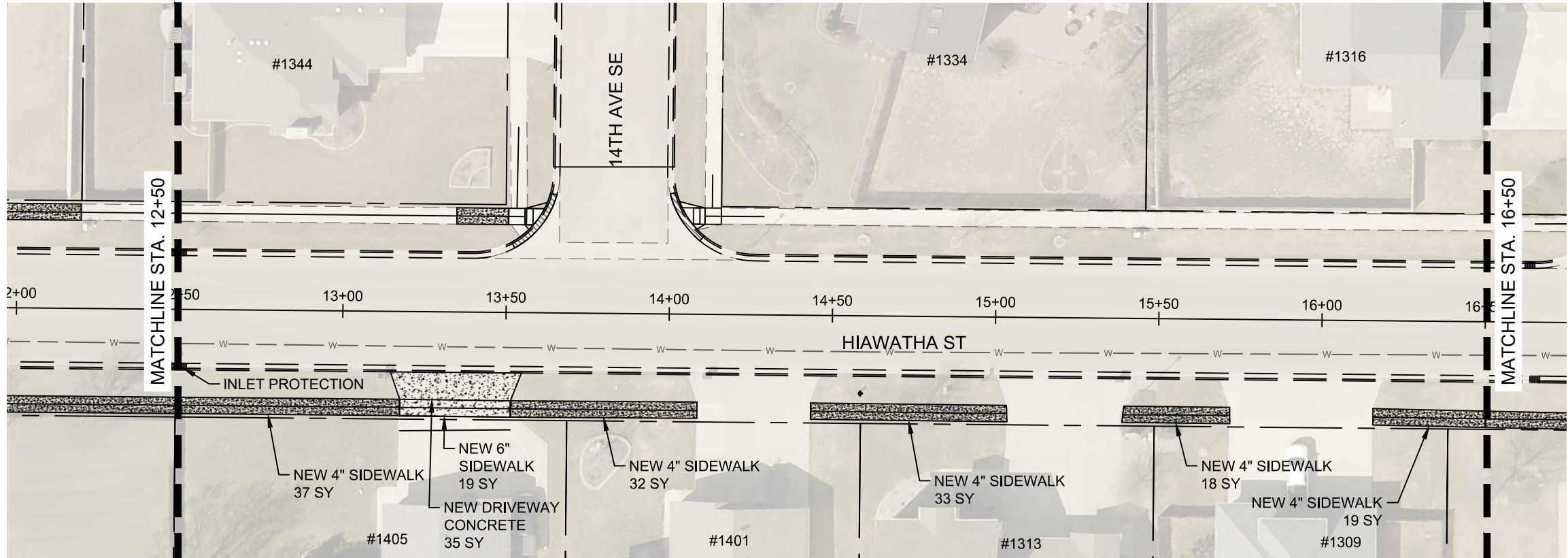
JESSE HOFFART
PE-29763

DATE 12/23/2022

NORTH DAKOTA

PLAN & PROFILE
HIAWATHA ST EAST SIDE
STA 8+50 TO STA 12+50

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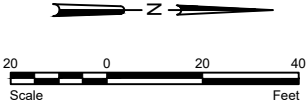
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VERTICAL SCALE: 1" = 10'

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	11
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	11

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
708	1540	INLET PROTECTION - SPECIAL	EA	1
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	1
750	115	SIDEWALK CONCRETE 4 IN	SY	139
750	140	SIDEWALK CONCRETE 6 IN	SY	19
750	1000	DRIVEWAY CONCRETE	SY	35

LEGEND

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



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

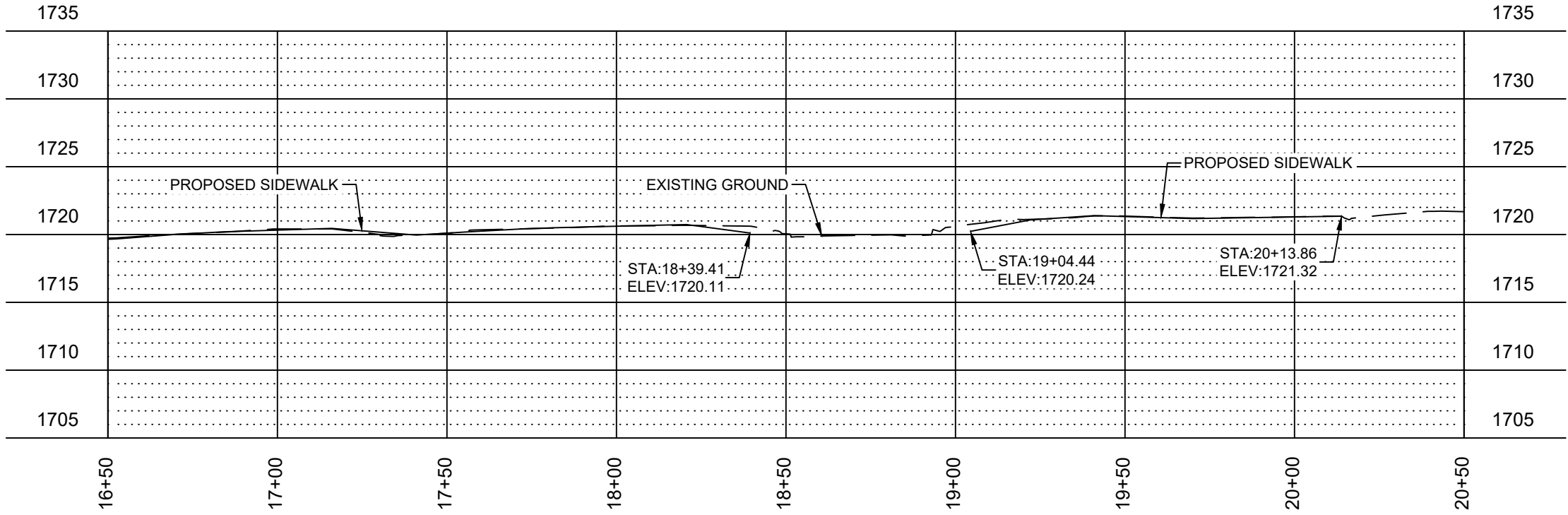
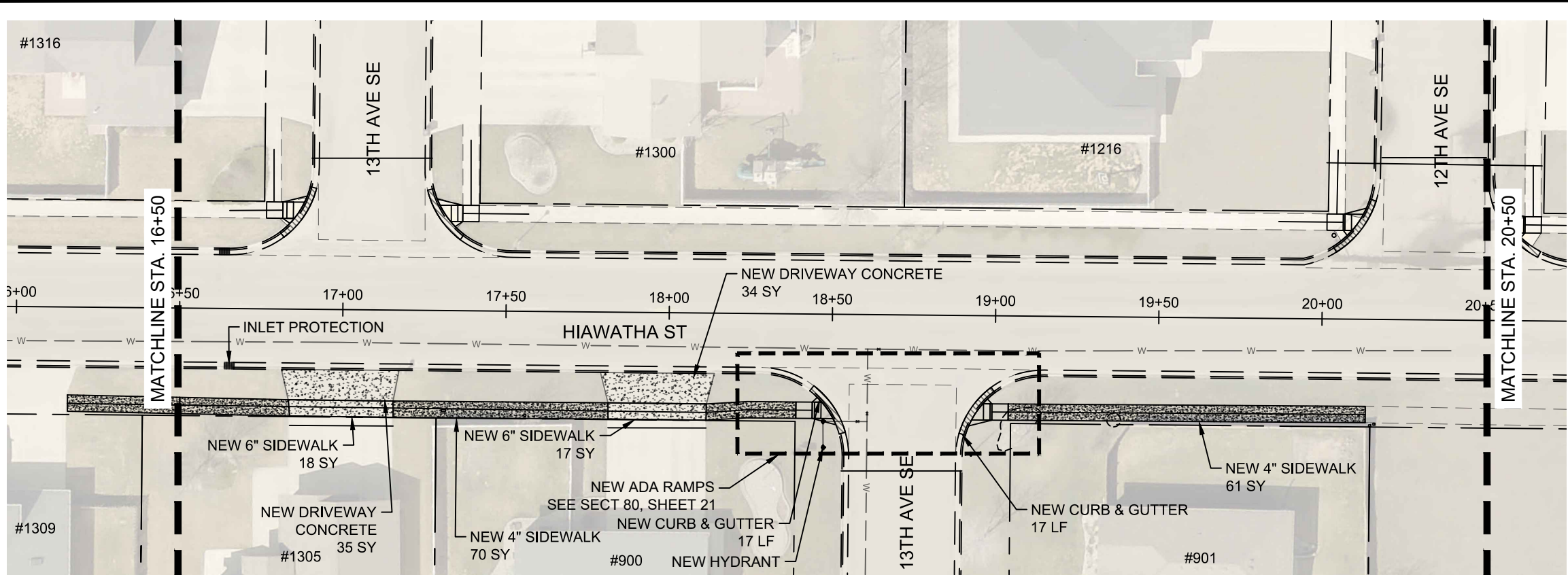
JESSE HOFFART
PE-29748

DATE 12/23/2022

NORTH DAKOTA

PLAN & PROFILE
HIAWATHA ST EAST SIDE
STA 12+50 TO STA 16+50

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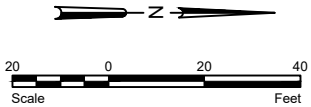
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VERTICAL SCALE: 1" = 10'

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	12
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	12

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
708	1540	INLET PROTECTION - SPECIAL	EA	1
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	1
724	411	NEW HYDRANT	EA	1
724	810	WATERMAIN 6IN PVC	LF	8
748	100	CURB & GUTTER	LF	34
750	115	SIDEWALK CONCRETE 4 IN	SY	131
750	140	SIDEWALK CONCRETE 6 IN	SY	35
750	1000	DRIVEWAY CONCRETE	SY	69

LEGEND

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



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

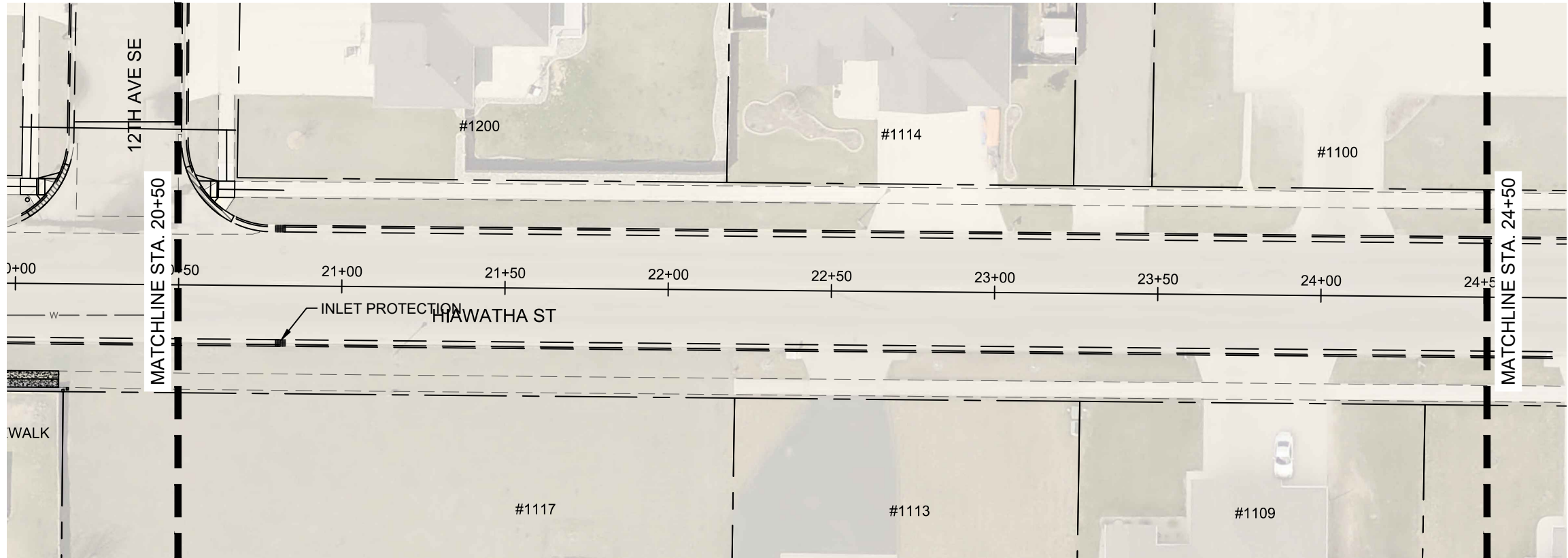
JESSE HOFART
PE-29748

DATE 12/23/2022

NORTH DAKOTA

PLAN & PROFILE
HIAWATHA ST EAST SIDE
STA 16+50 TO STA 20+50

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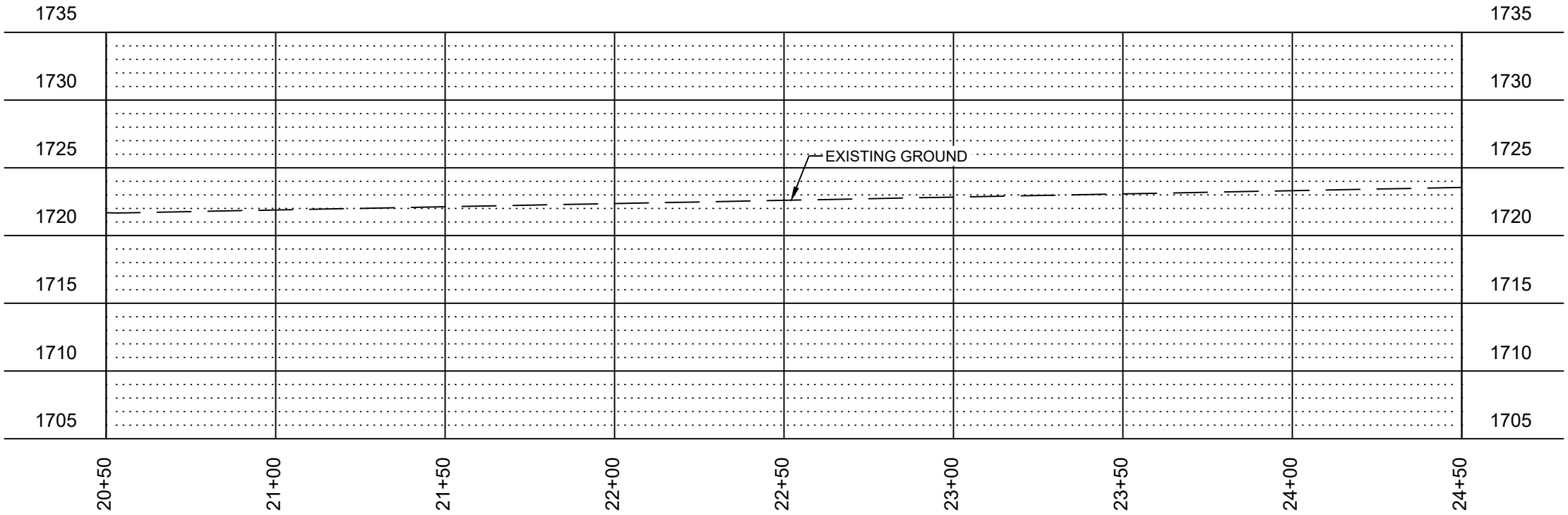


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	13
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	13

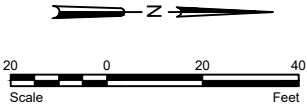
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
708	1540	INLET PROTECTION - SPECIAL	EA	1
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	1

LEGEND

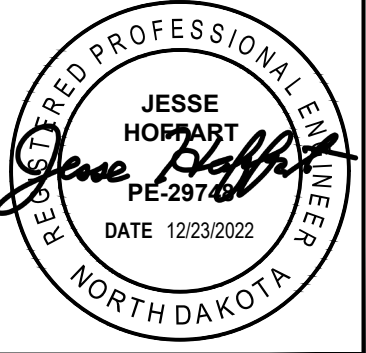
-  NEW CURB & GUTTER
-  NEW BITUMINOUS PAVEMENT
-  NEW 4" SIDEWALK
-  NEW 6" SIDEWALK/DRIVEWAY CONCRETE
-  PROPERTY LINE
-  EXISTING CURB AND GUTTER
-  EXISTING VALLEY GUTTER



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

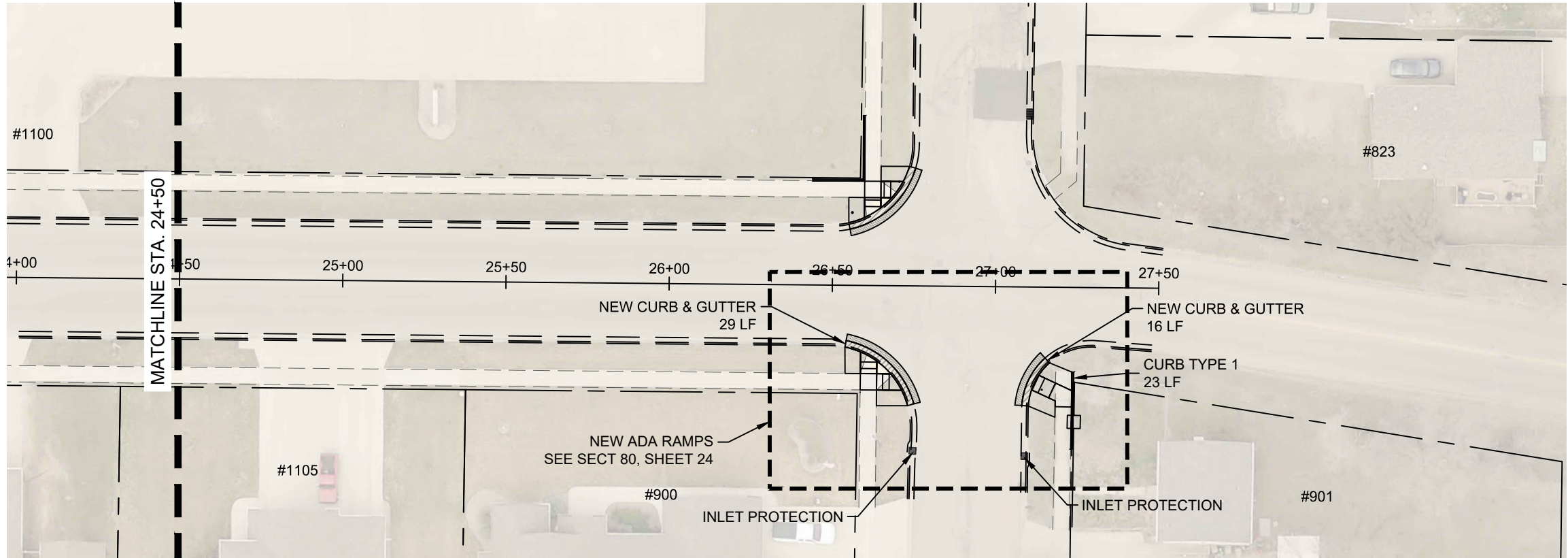


City of Minot
Engineering Department



PLAN & PROFILE
HIAWATHA ST EAST SIDE
STA 20+50 TO STA 24+50

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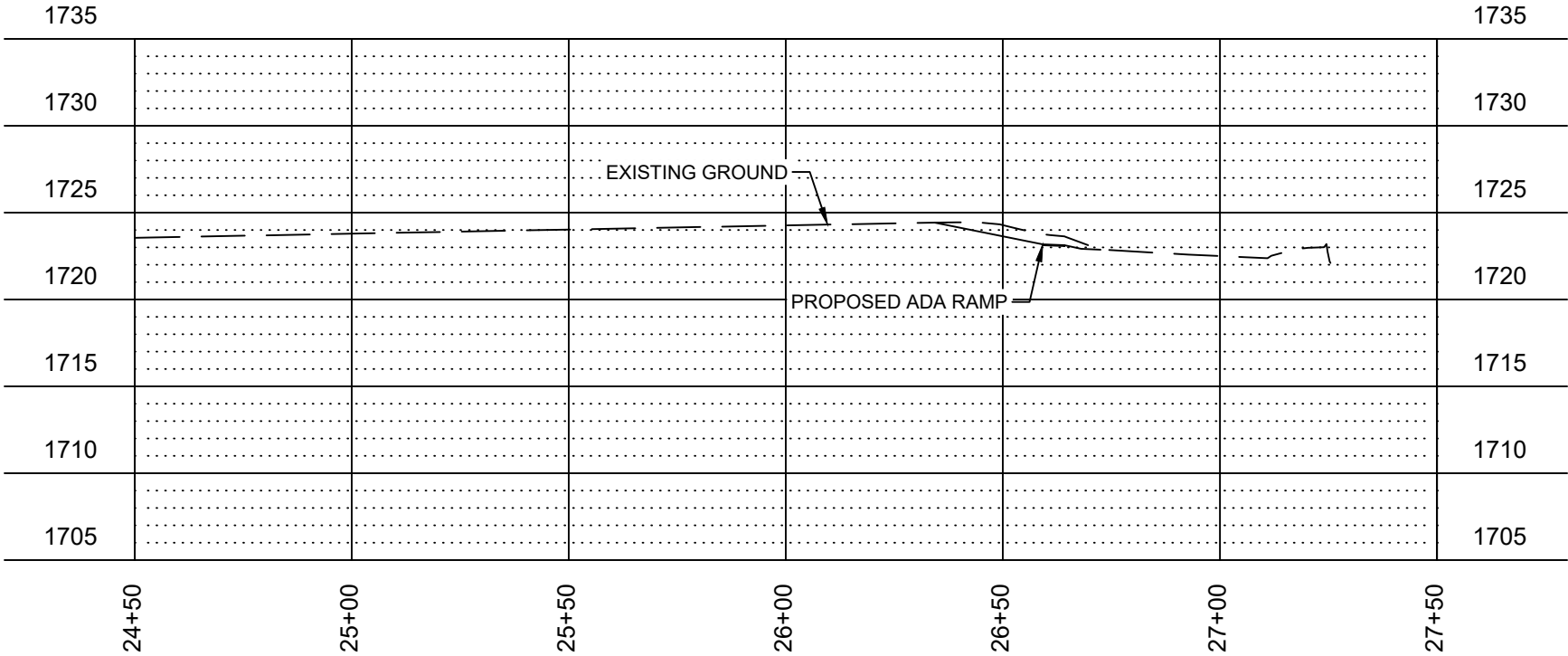


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	14
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	14

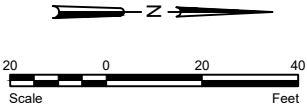
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	2
708	1540	INLET PROTECTION - SPECIAL	EA	2
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	2
748	100	CURB & GUTTER	LF	45
748	520	CURB - TYPE 1	LF	23

LEGEND

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



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



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

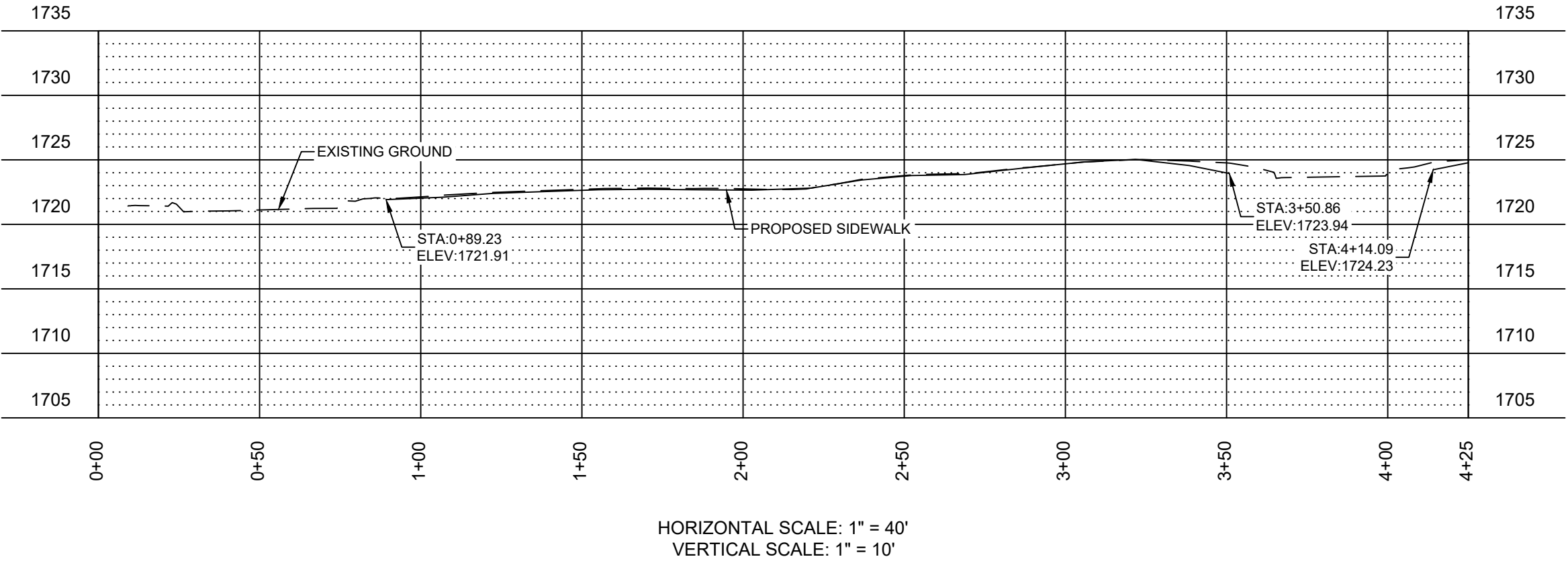
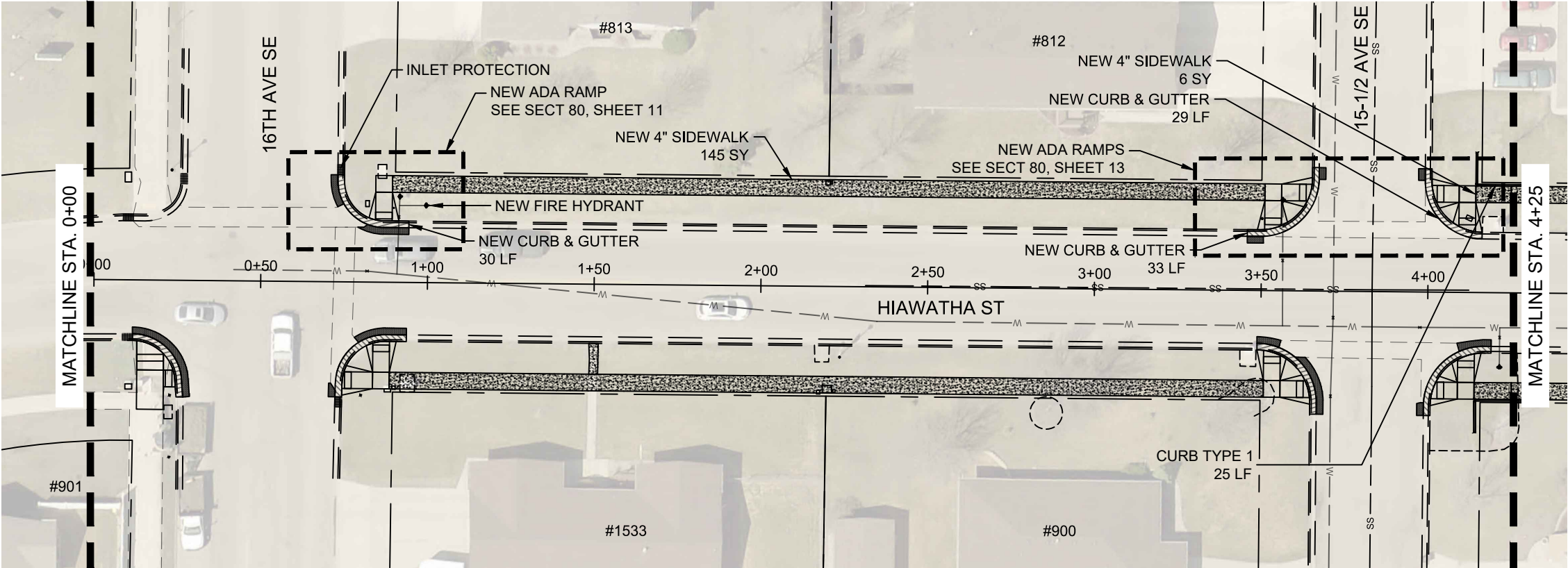
JESSE HOPKART
PE-29748

DATE 12/23/2022

NORTH DAKOTA

PLAN & PROFILE
HIAWATHA ST EAST SIDE
STA 24+50 TO STA 27+50

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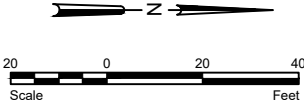


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	15
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	15

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	2
708	1540	INLET PROTECTION - SPECIAL	EA	1
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	1
724	411	NEW HYDRANT	EA	1
724	810	WATERMAIN 6IN PVC	LF	8
748	100	CURB & GUTTER	LF	92
748	520	CURB - TYPE 1	LF	25
750	115	SIDEWALK CONCRETE 4 IN	SY	151

LEGEND

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



City of Minot
Engineering Department

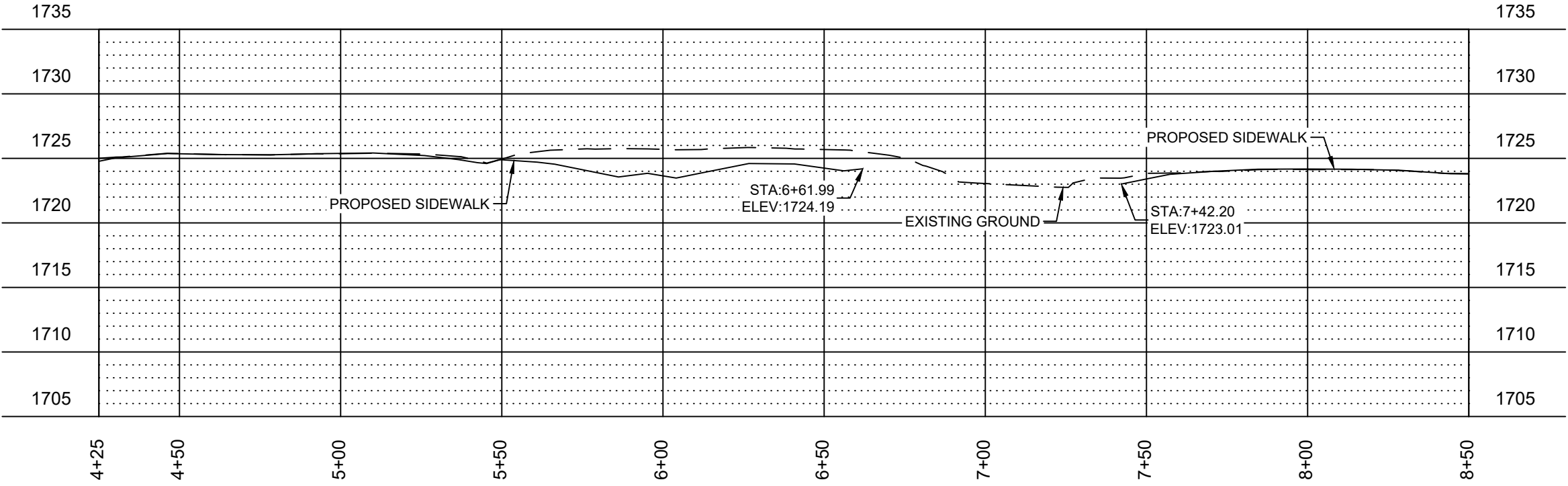
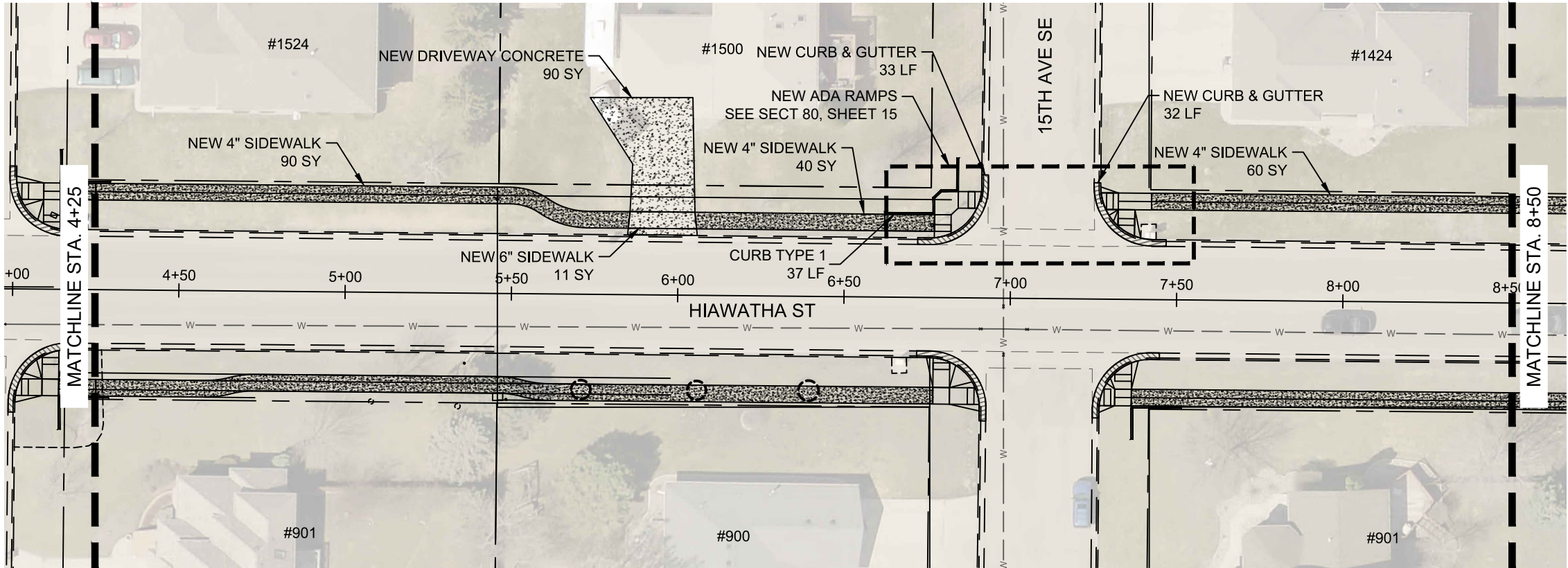
REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
PE-29748
DATE 12/23/2022

NORTH DAKOTA

PLAN & PROFILE
HIAWATHA ST WEST SIDE
STA 0+00 TO STA 4+25

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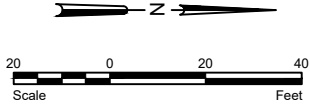
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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	16
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	16

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB & GUTTER	LF	65
748	520	CURB - TYPE 1	LF	37
750	115	SIDEWALK CONCRETE 4 IN	SY	190
750	140	SIDEWALK CONCRETE 6 IN	SY	11
750	1000	DRIVEWAY CONCRETE	SY	90

LEGEND

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



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

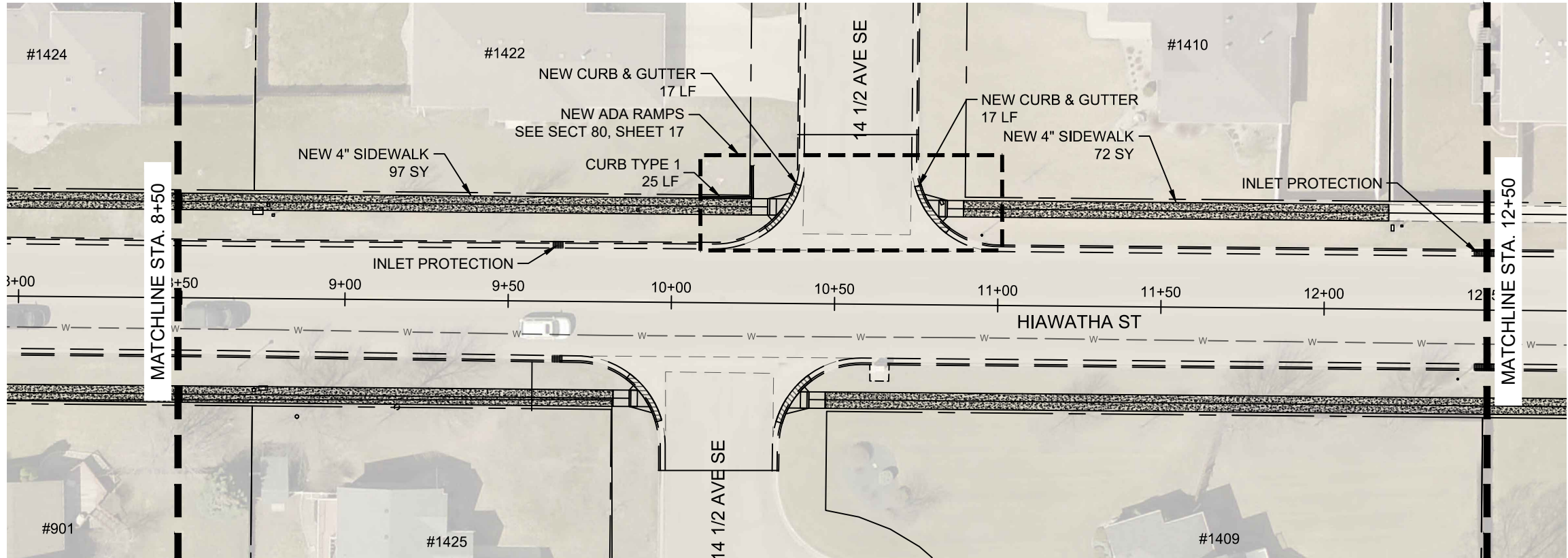
JESSE HOFMART
PE-29748

DATE 12/23/2022

NORTH DAKOTA

PLAN & PROFILE
HIAWATHA ST WEST SIDE
STA 4+25 TO STA 8+50

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

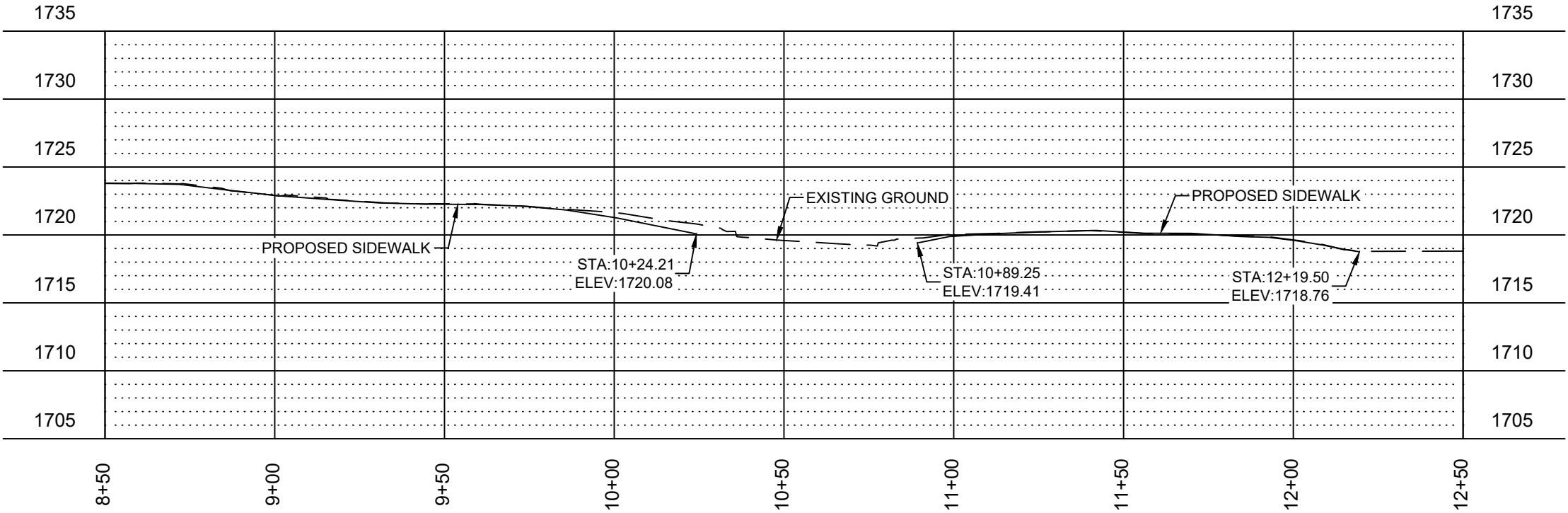
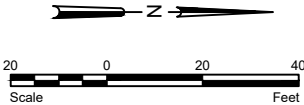


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	17
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	17

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	2
708	1540	INLET PROTECTION - SPECIAL	EA	2
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	2
748	100	CURB & GUTTER	LF	34
748	520	CURB - TYPE 1	LF	25
750	115	SIDEWALK CONCRETE 4 IN	SY	169

LEGEND

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



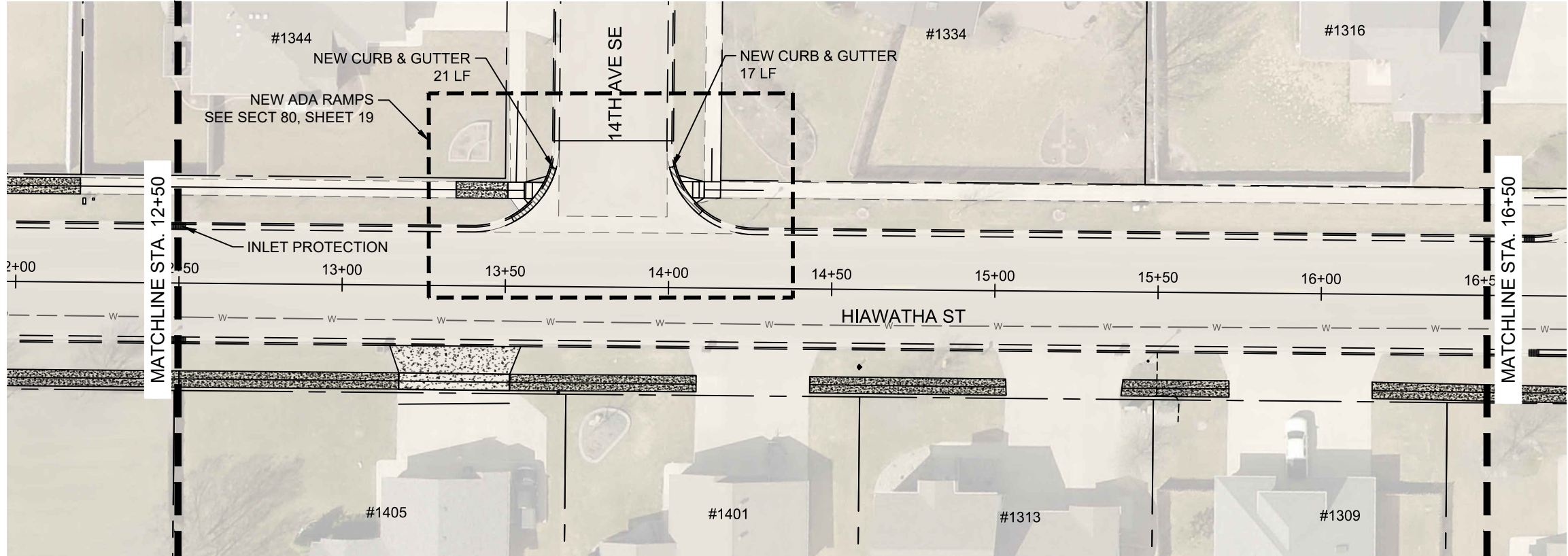
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VERTICAL SCALE: 1" = 10'

City of Minot
Engineering Department



PLAN & PROFILE
HIAWATHA ST WEST SIDE
STA 8+50 TO STA 12+50

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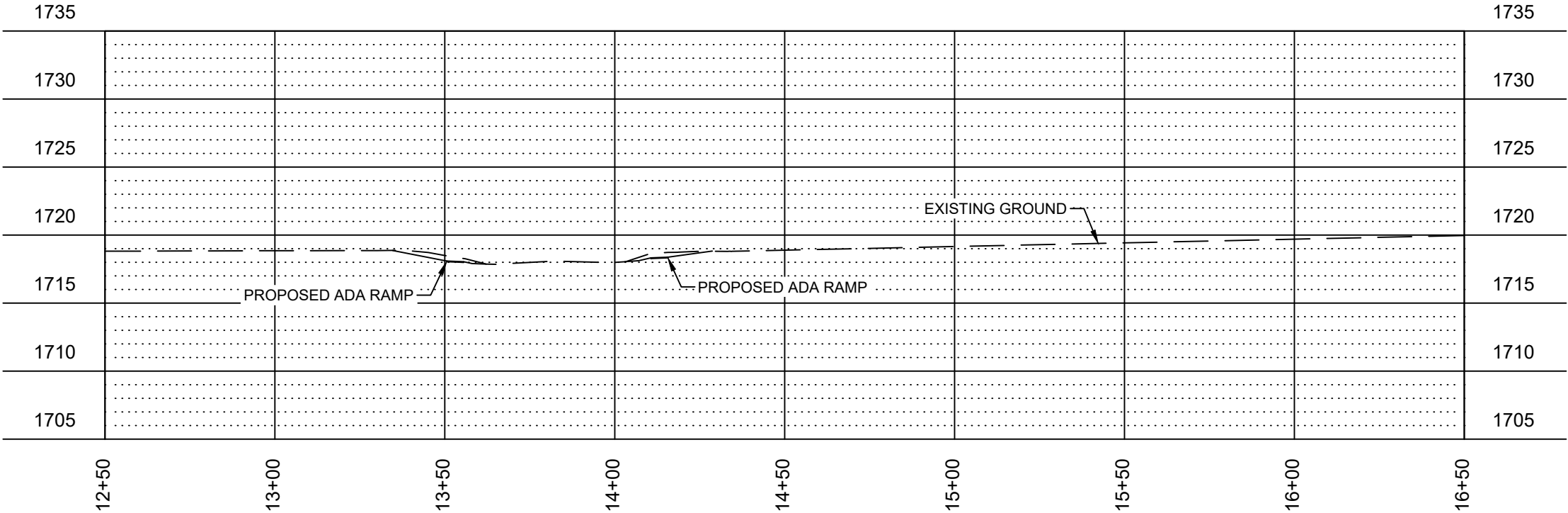
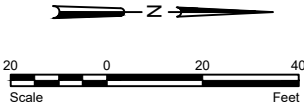


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	18
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	18

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
708	1540	INLET PROTECTION - SPECIAL	EA	1
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	1
748	100	CURB & GUTTER	LF	38

LEGEND

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



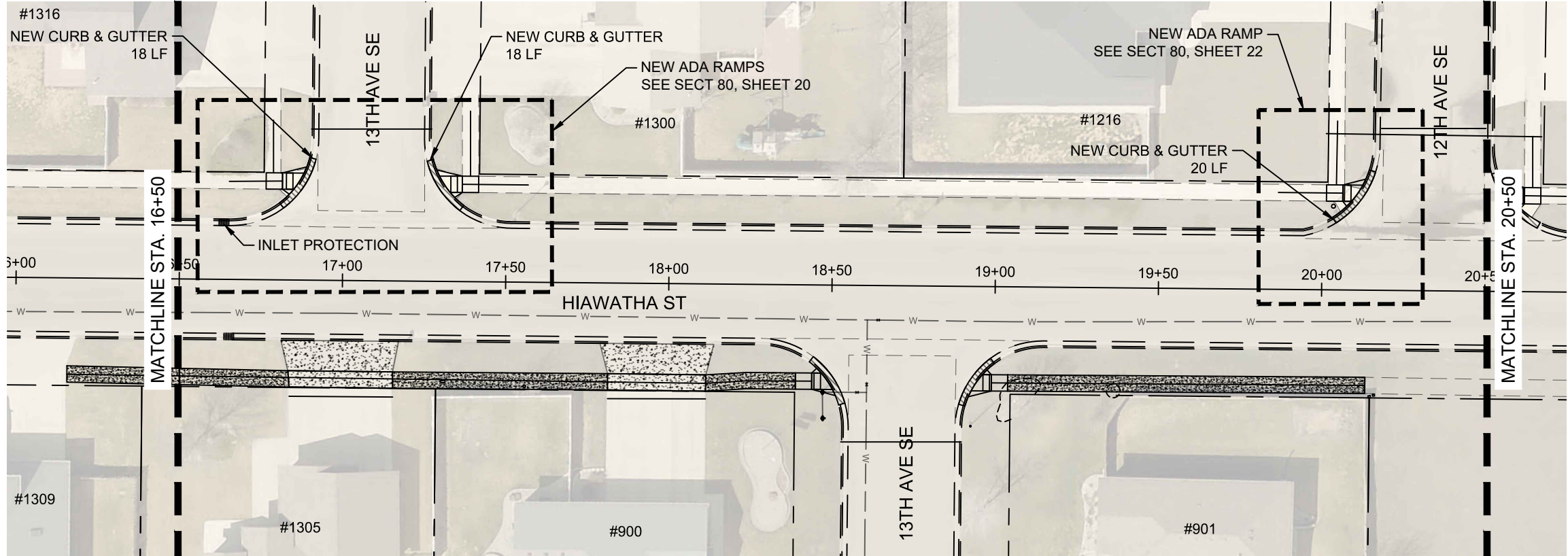
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VERTICAL SCALE: 1" = 10'

City of Minot
Engineering Department



PLAN & PROFILE
HIAWATHA ST WEST SIDE
STA 12+50 TO STA 16+50

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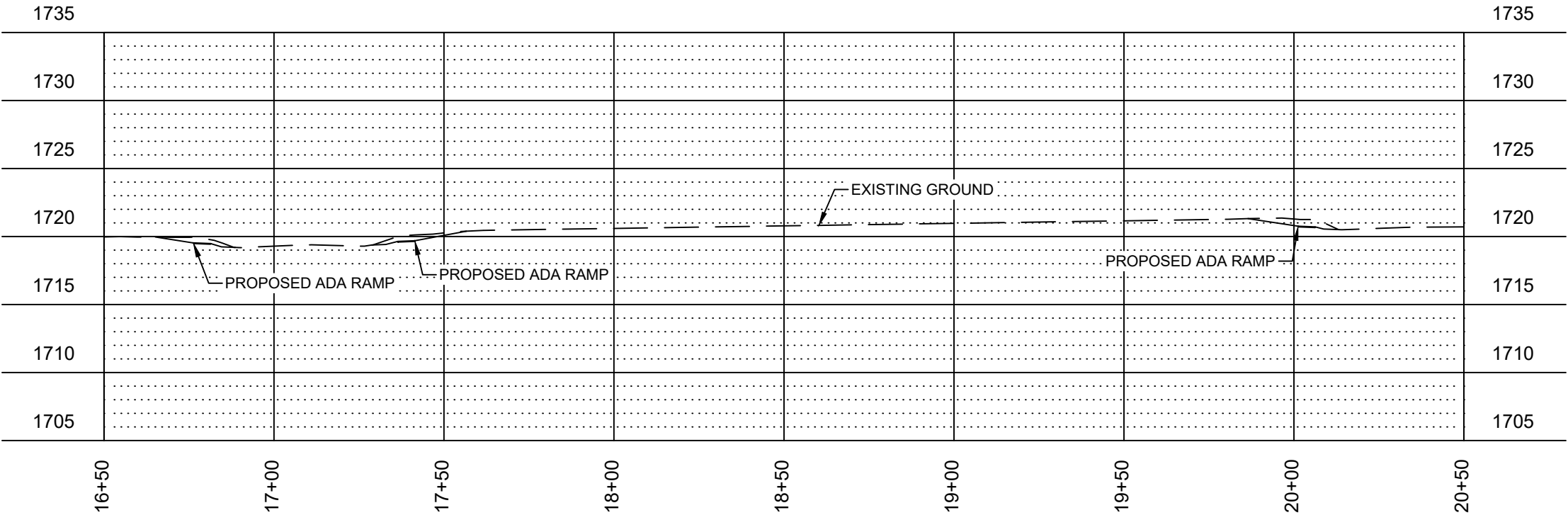


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	19
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	19

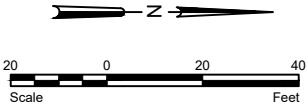
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708	1540	INLET PROTECTION - SPECIAL	EA	1
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	1
748	100	CURB & GUTTER	LF	56

LEGEND

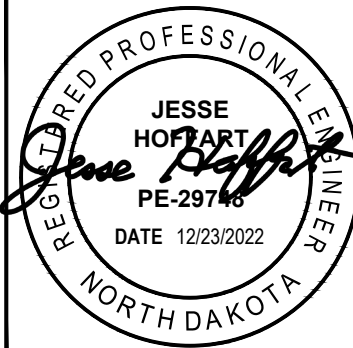
- NEW CURB & GUTTER
- NEW BITUMINOUS PAVEMENT
- NEW 4" SIDEWALK
- NEW 6" SIDEWALK/DRIVEWAY CONCRETE
- PROPERTY LINE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER



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

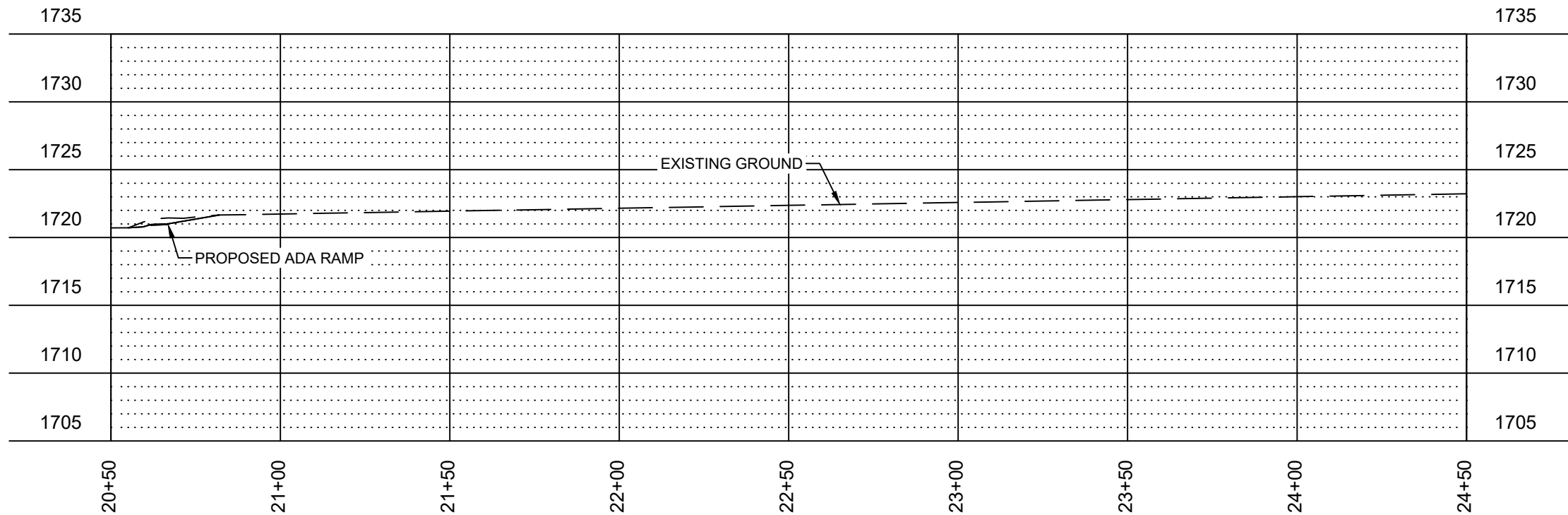
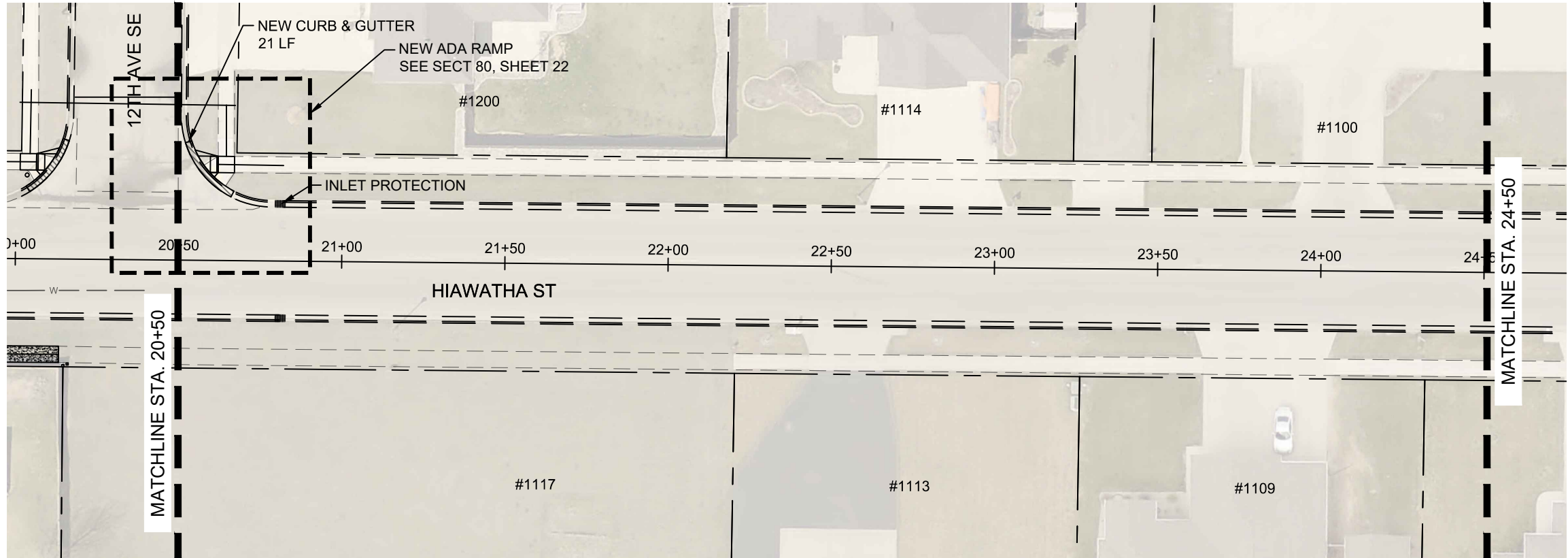


City of Minot
Engineering Department



PLAN & PROFILE
HIAWATHA ST WEST SIDE
STA 16+50 TO STA 20+50

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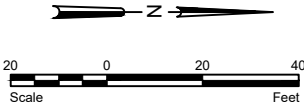
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VERTICAL SCALE: 1" = 10'

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	20
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	20

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
708	1540	INLET PROTECTION - SPECIAL	EA	1
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	1
748	100	CURB & GUTTER	LF	21

LEGEND

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

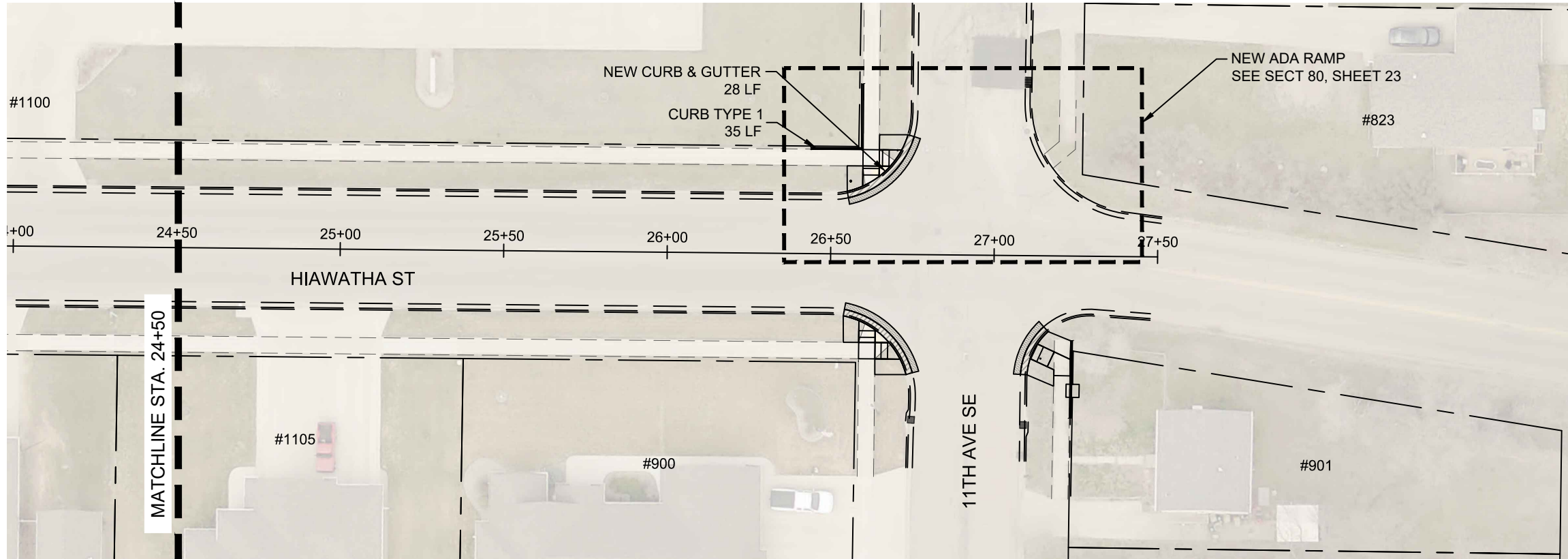


City of Minot
Engineering Department



PLAN & PROFILE
HIAWATHA ST WEST SIDE
STA 20+50 TO STA 24+50

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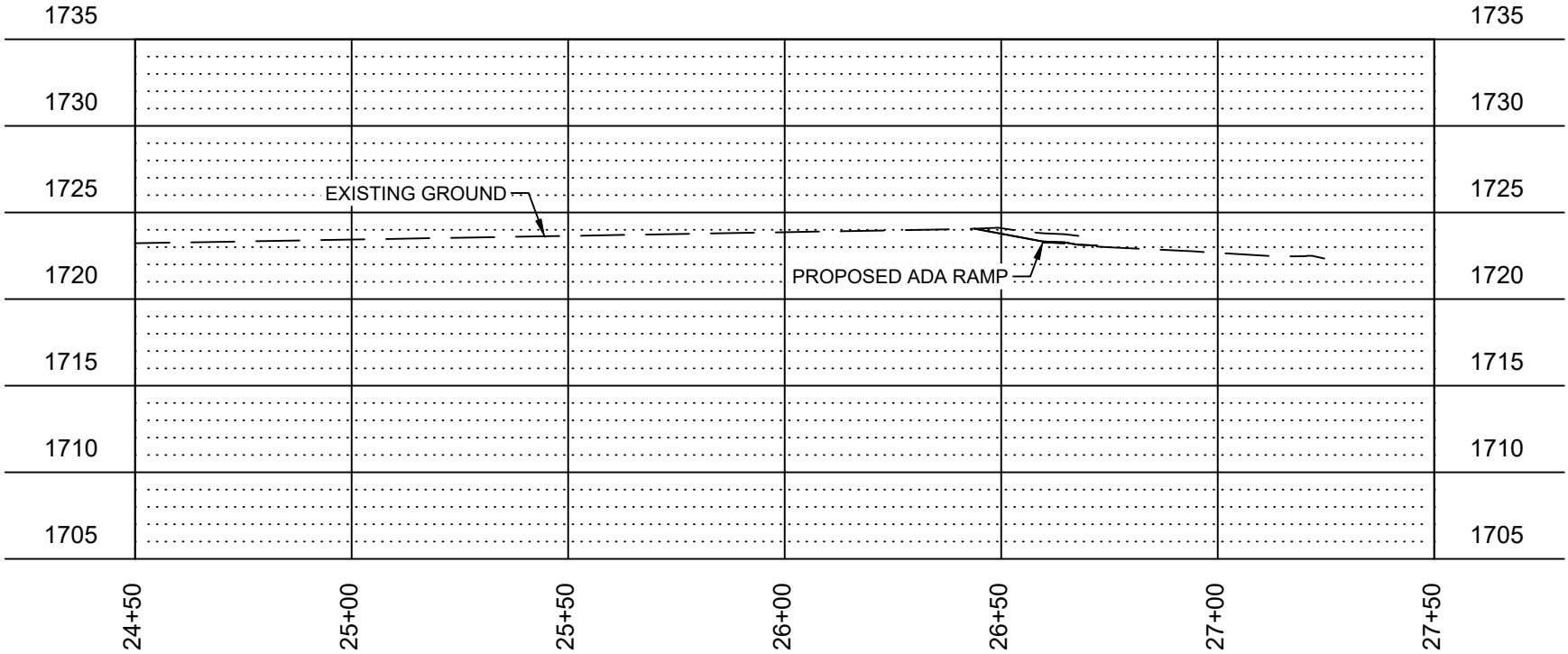
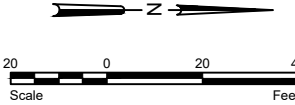


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	60	21
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	60	21

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
430	2000	PATCHING	TON	1
748	100	CURB & GUTTER	LF	28
748	520	CURB - TYPE 1	LF	35

LEGEND

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

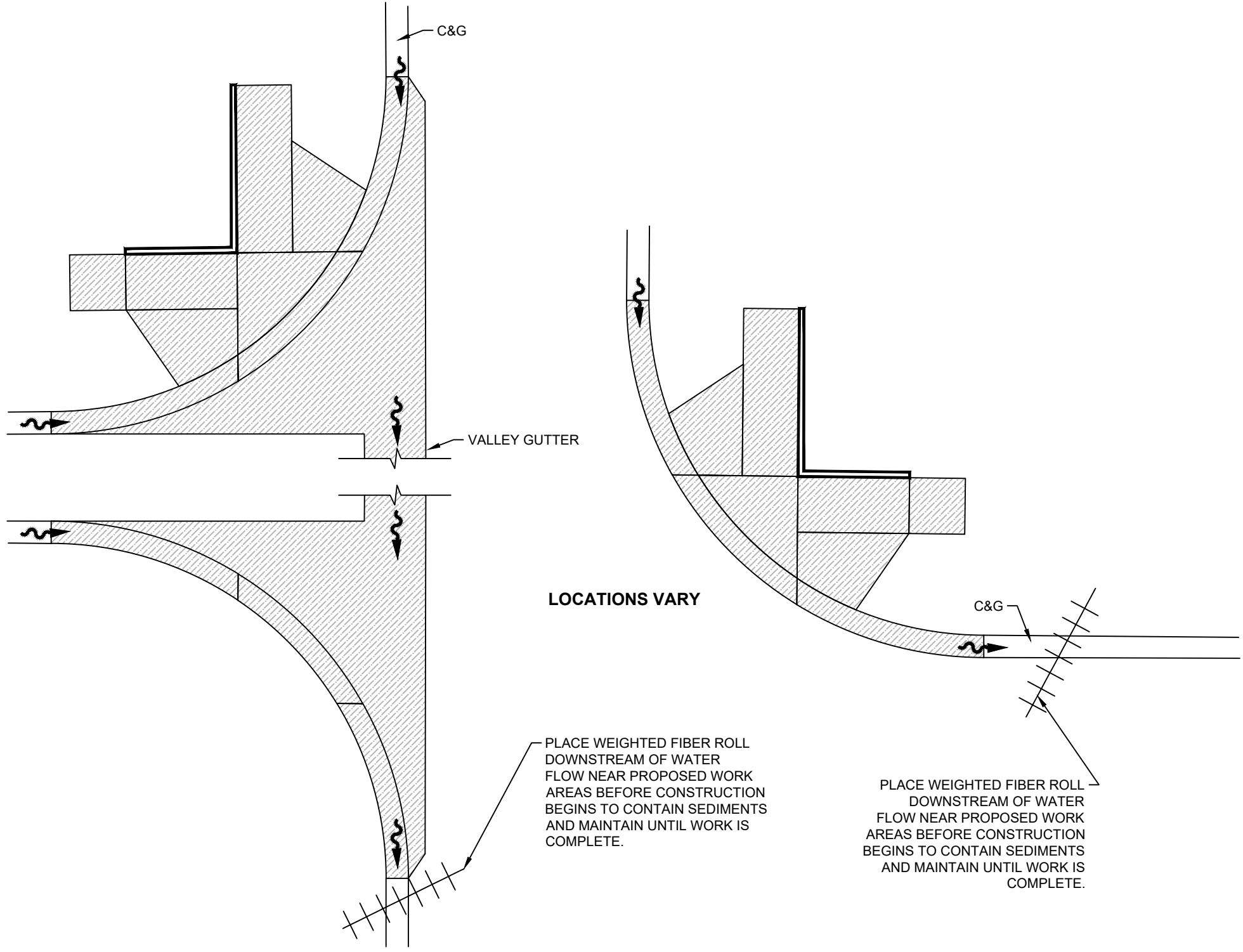


HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

City of Minot
Engineering Department



PLAN & PROFILE
HIAWATHA ST WEST SIDE
STA 24+50 TO STA 27+50



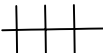
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ND	TAU-4-989(126)	23244	76	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	76	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
261	200	WEIGHTED FIBER ROLLS	LF	400
261	201	REMOVE WEIGHTED FIBER ROLLS	LF	400

LEGEND

 PROPOSED WORK

 WATER FLOW DIRECTION

 WEIGHTED FIBER ROLLS

City of Minot
Engineering Department



TEMPORARY SEDIMENT AND
EROSION CONTROL AT
PROPOSED WORK LOCATIONS



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	76	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	76	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
261	200	WEIGHTED FIBER ROLLS	LF	240
261	201	REMOVE WEIGHTED FIBER ROLLS	LF	240

LEGEND

+++++ WEIGHTED FIBER ROLLS (10 FT LENGTH ASSUMED FOR ALL LOCATIONS)

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

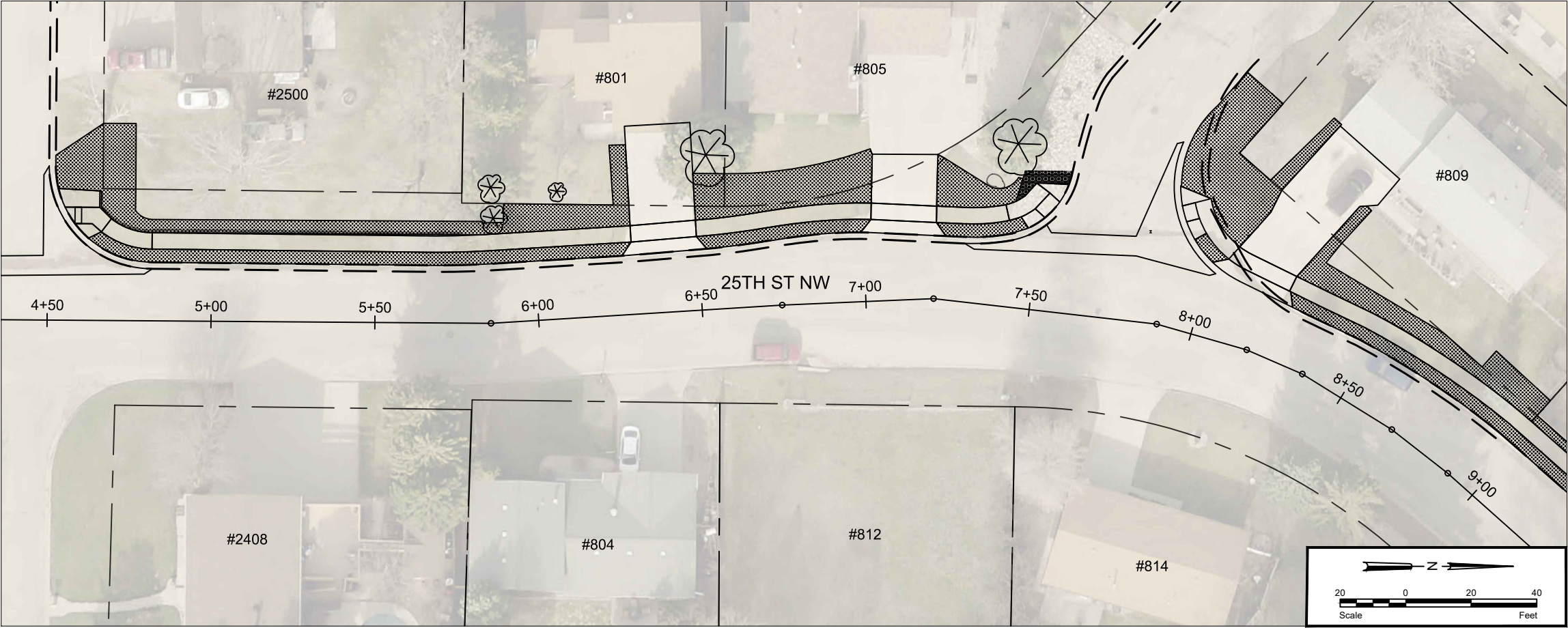
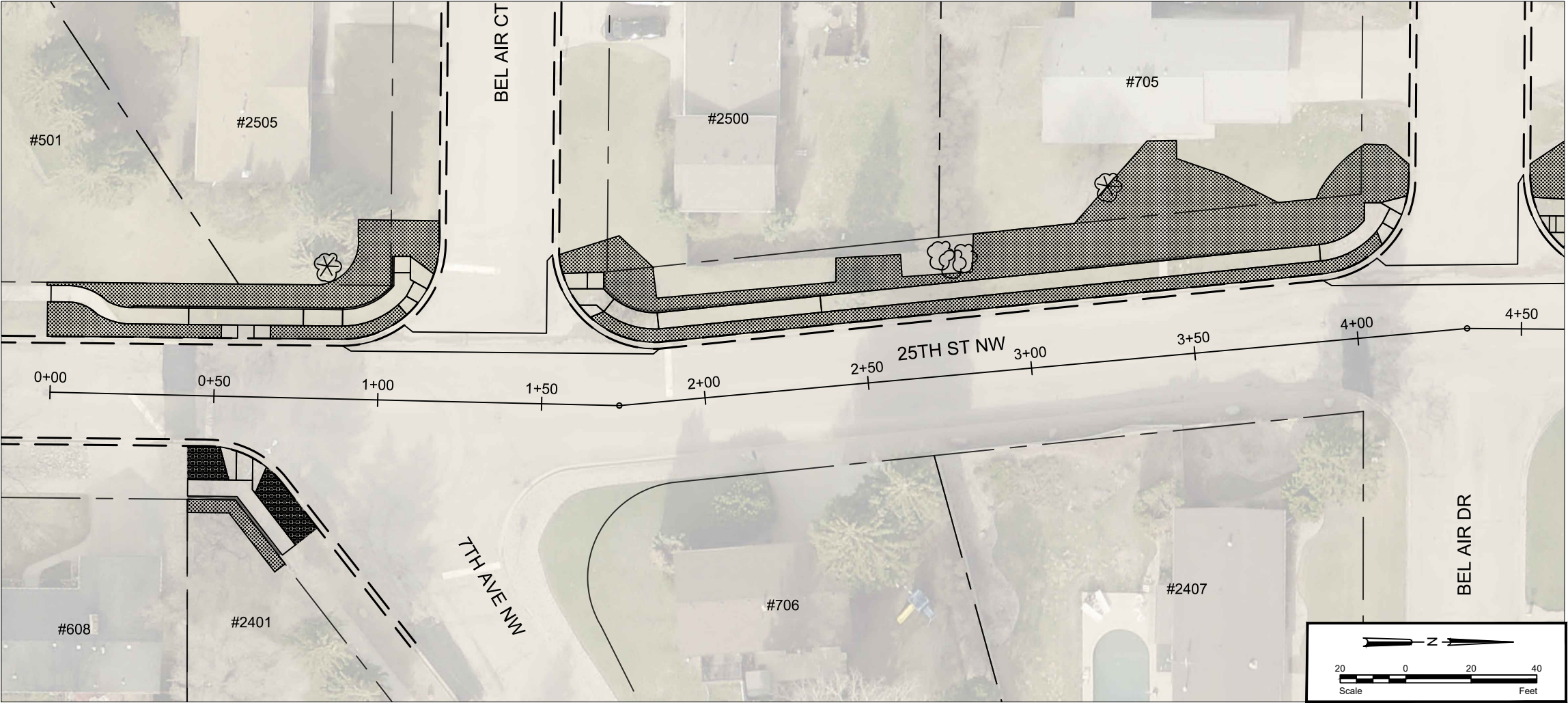
JESSE HOFFART
PE-29748

DATE 12/23/2022

NORTH DAKOTA

TEMPORARY SEDIMENT AND
EROSION CONTROL AT
PROPOSED WORK LOCATIONS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	77	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	77	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	88
251	300	SEEDING CLASS III	ACRE	0.22
253	200	HYDRAULIC MULCH	SY	1057

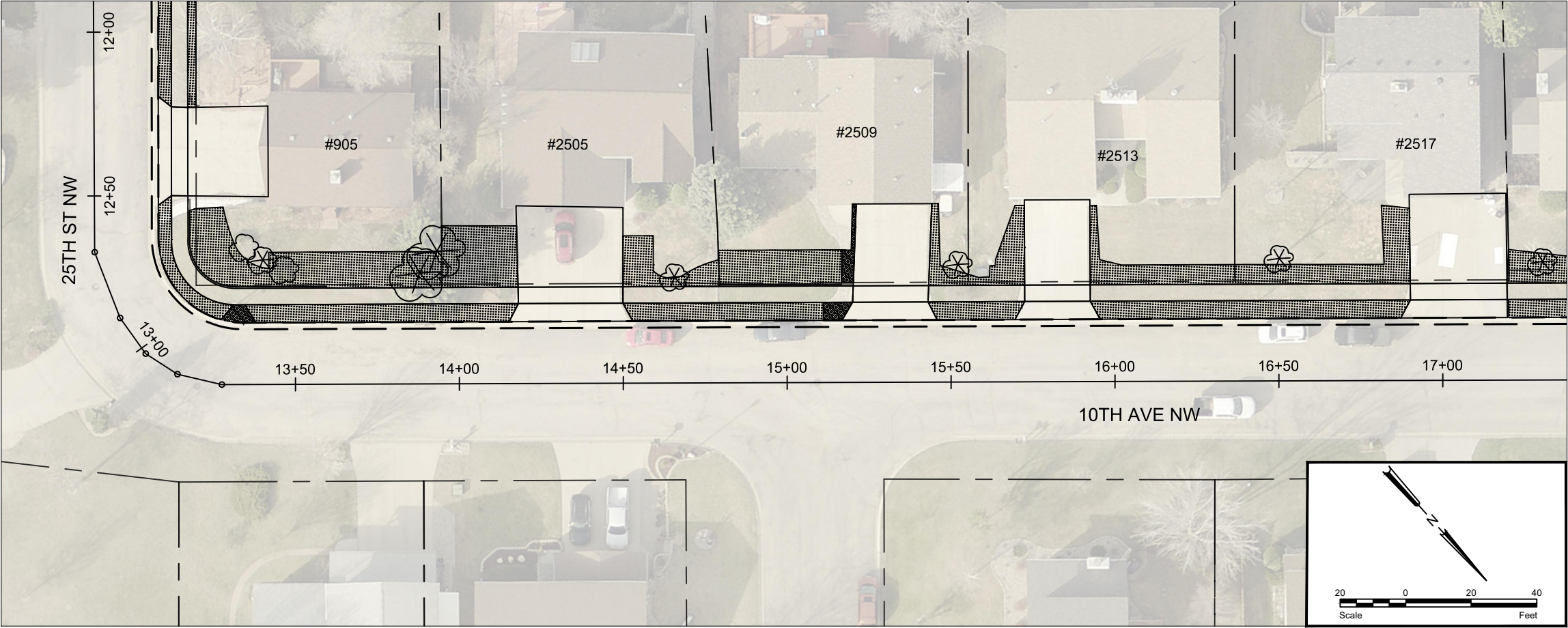
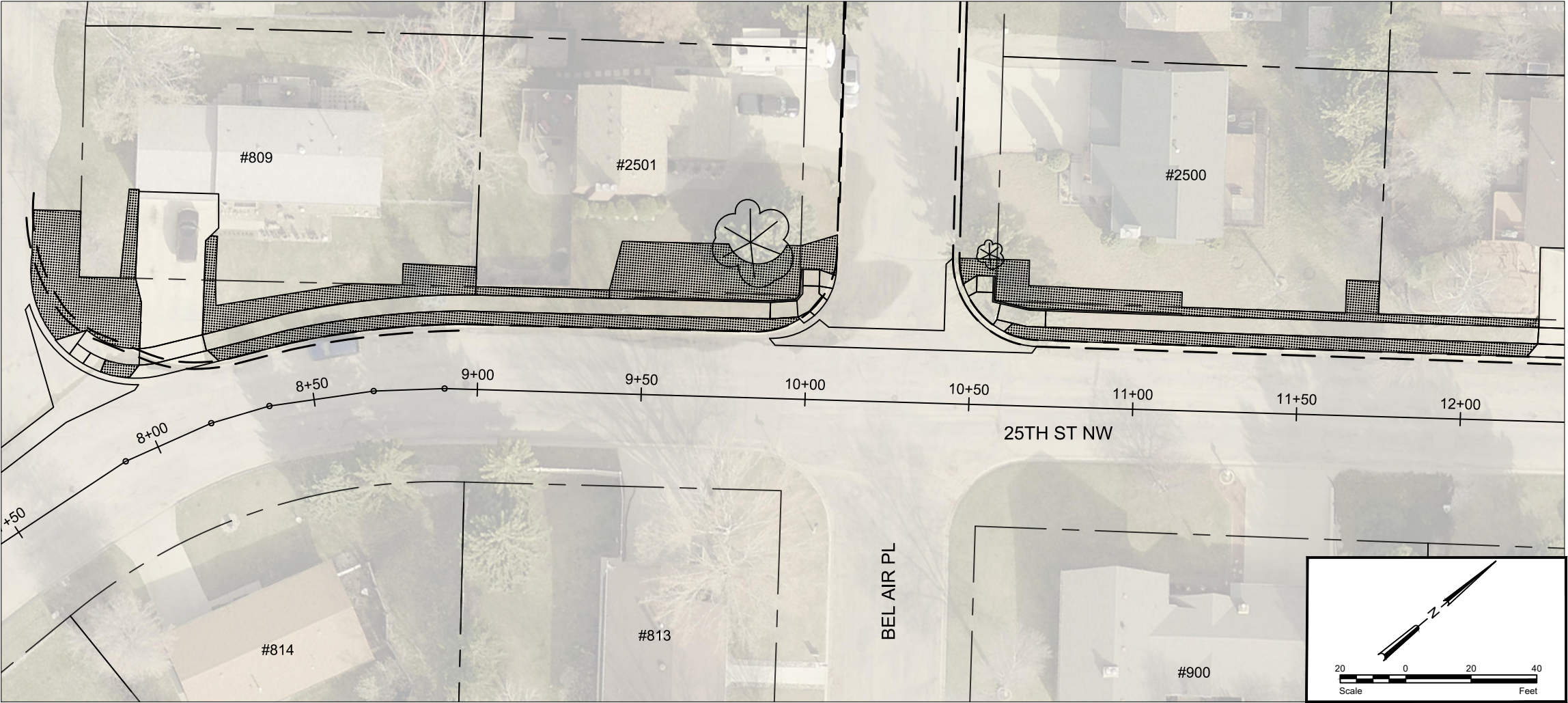
LEGEND

	SEEDING CLASS 3 AND HYDRAULIC MULCH
	SALVAGE & REPLACE ROCK

City of Minot
Engineering Department

PERMANENT SEDIMENT AND
EROSION CONTROL
STA 0+00 TO 7+50

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	77	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	77	2

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	89
251	300	SEEDING CLASS III	ACRE	0.22
253	200	HYDRAULIC MULCH	SY	1064

LEGEND

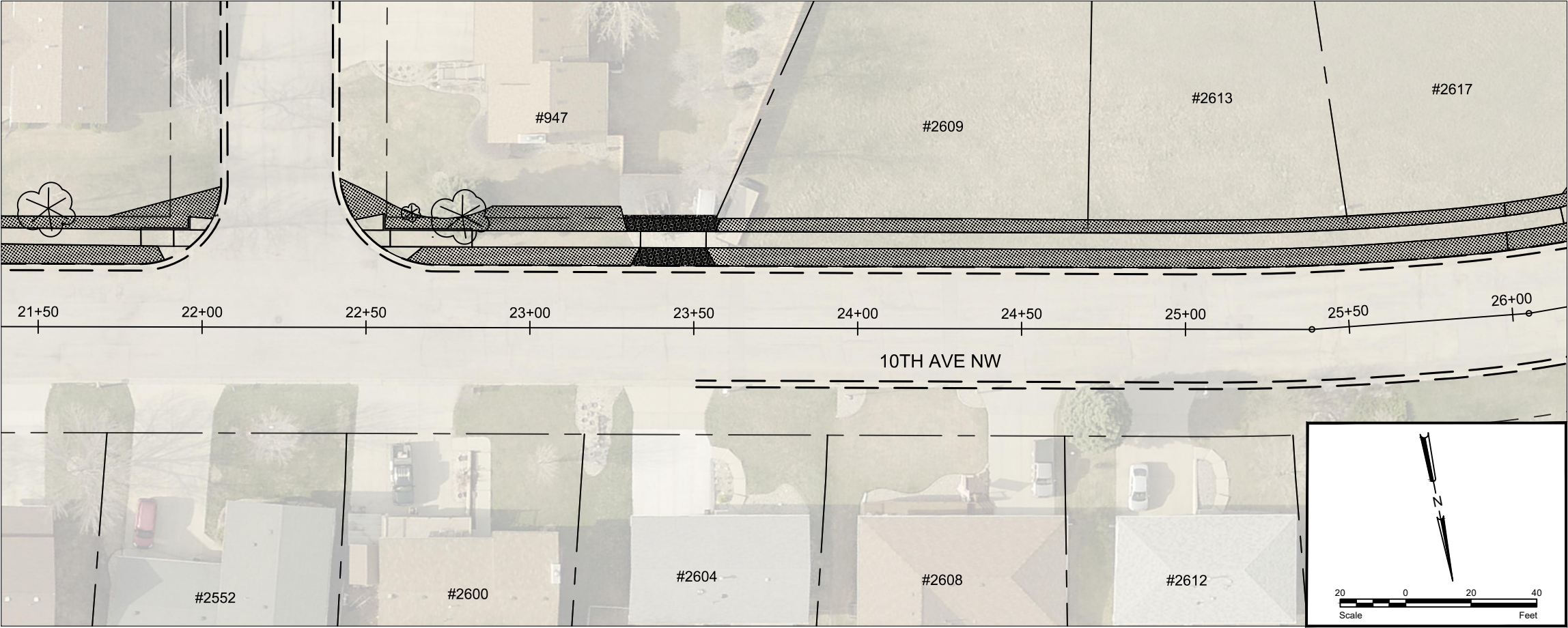
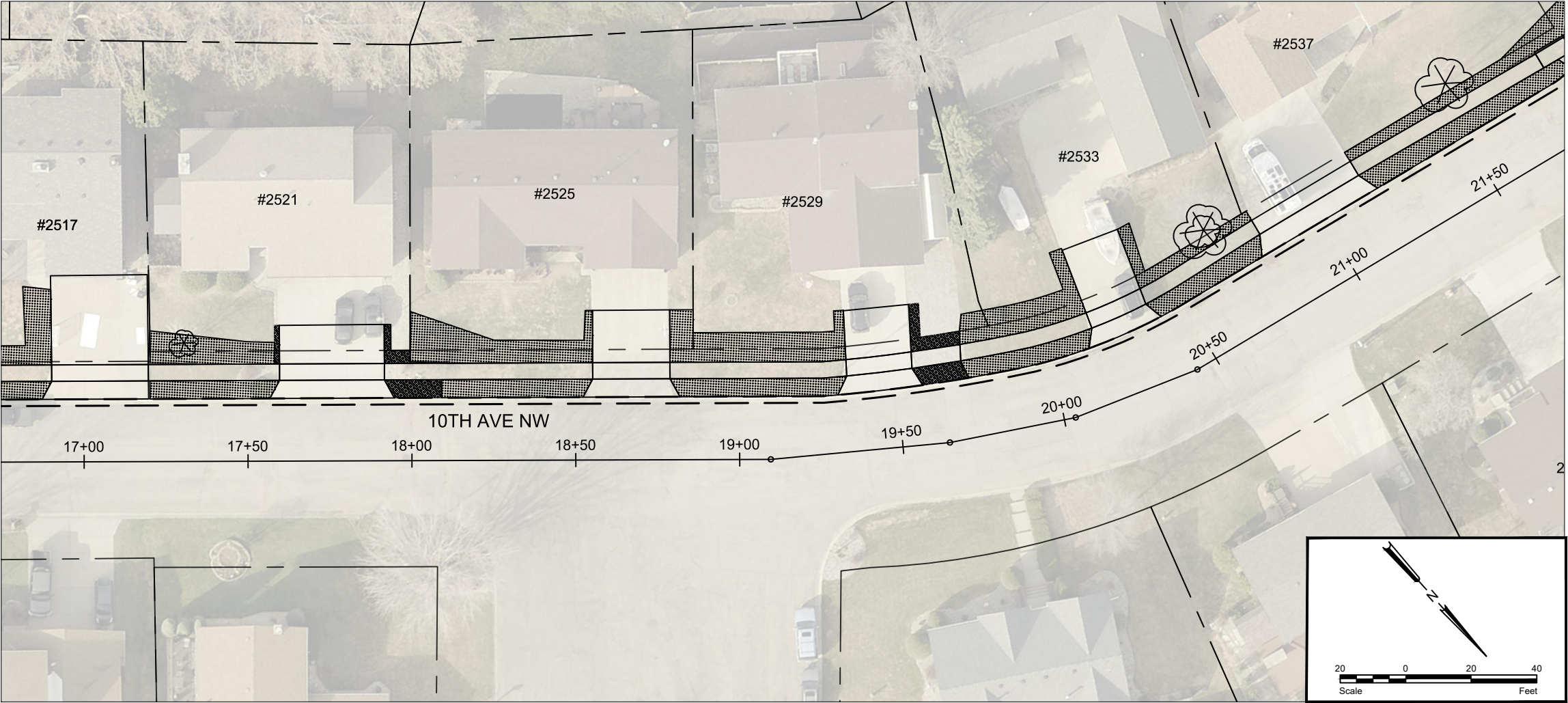
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	SALVAGE & REPLACE ROCK

City of Minot
Engineering Department



PERMANENT SEDIMENT AND
EROSION CONTROL
STA 7+50 TO 17+00

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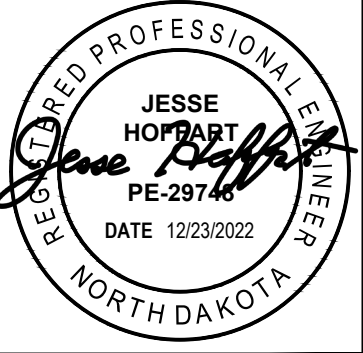
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ND	TAU-4-989(126)	23244	77	3
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	77	3

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	67
251	300	SEEDING CLASS III	ACRE	0.17
253	200	HYDRAULIC MULCH	SY	801

LEGEND

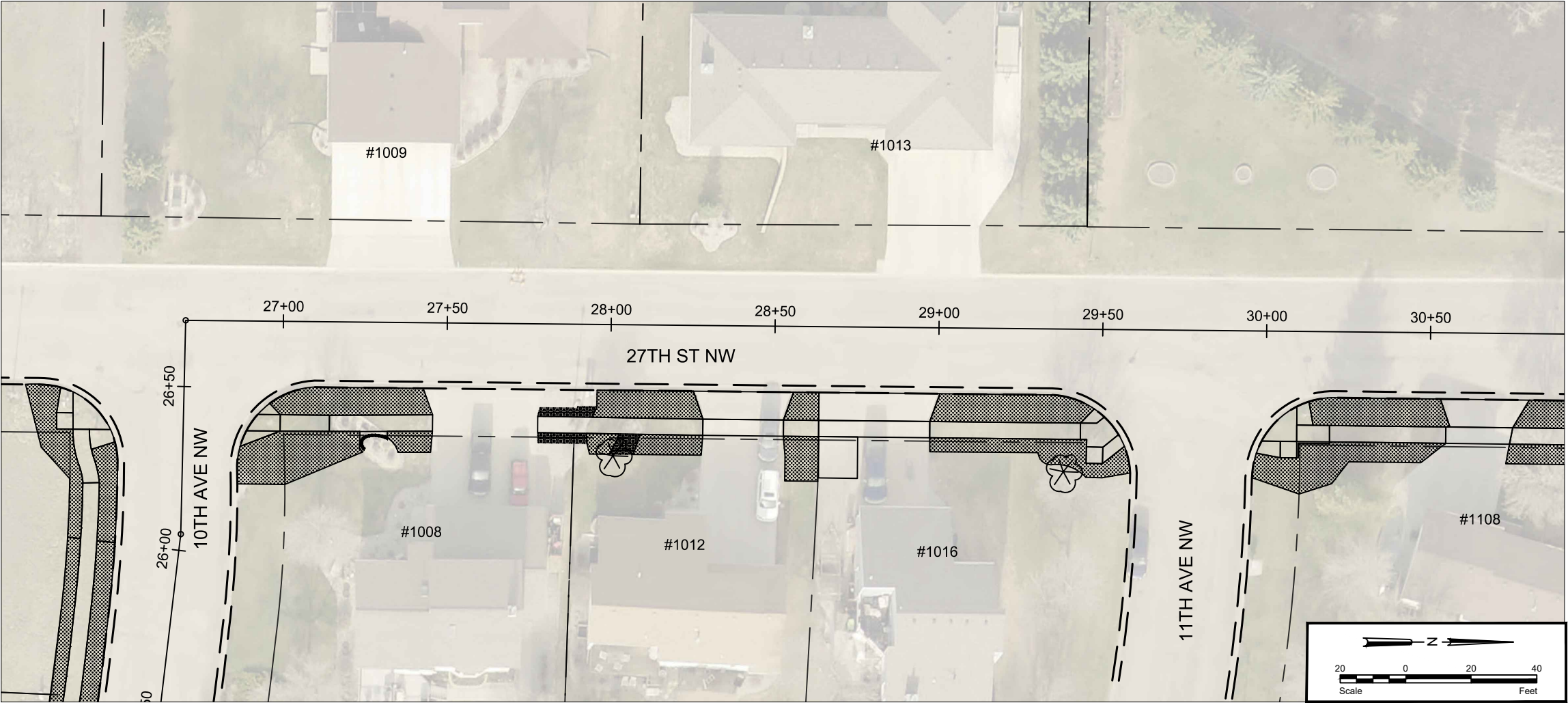
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	SALVAGE & REPLACE ROCK

City of Minot
Engineering Department



PERMANENT SEDIMENT AND
EROSION CONTROL
STA 17+00 TO 26+00

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11/18/2022



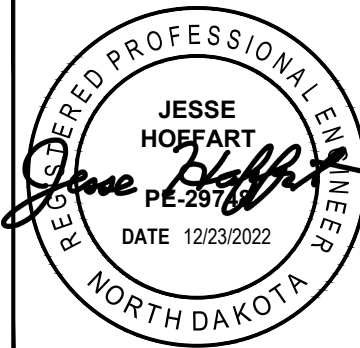
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ND	TAU-4-989(126)	23244	77	4
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	77	4

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	97
251	300	SEEDING CLASS III	ACRE	0.24
253	200	HYDRAULIC MULCH	SY	1164

LEGEND

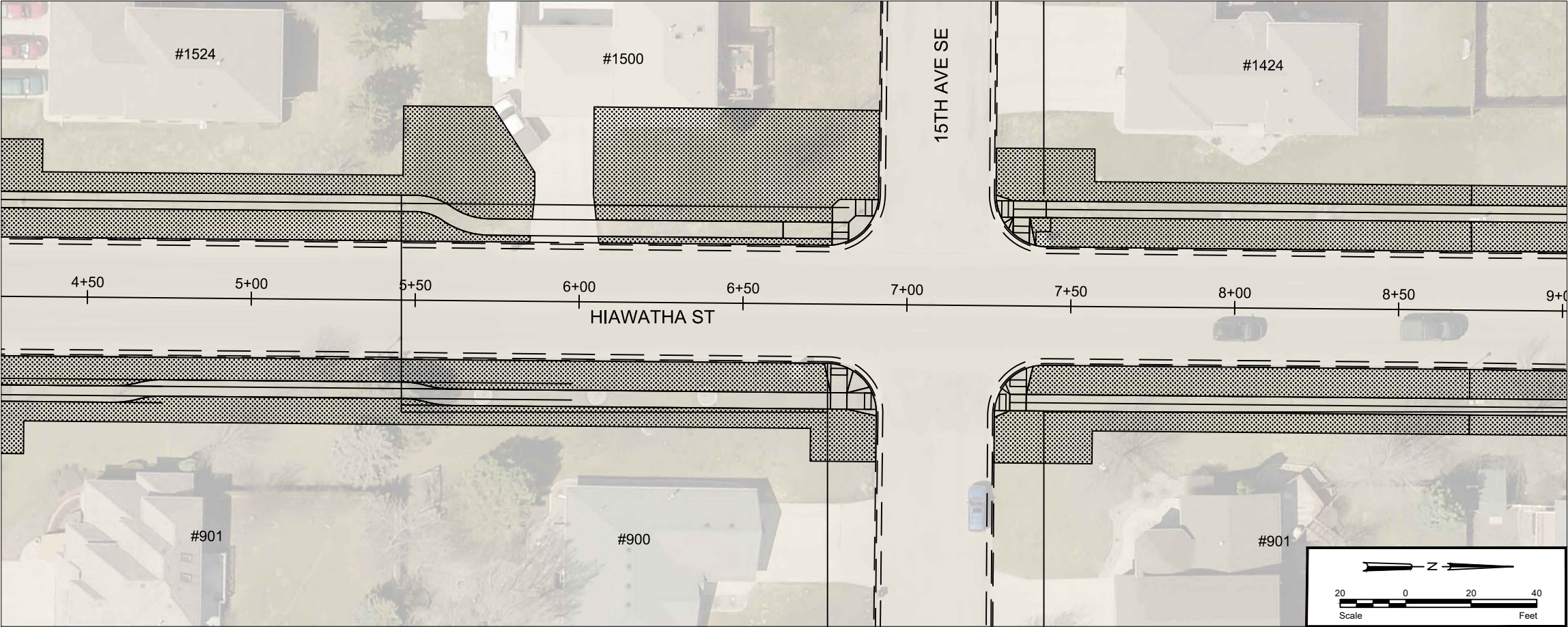
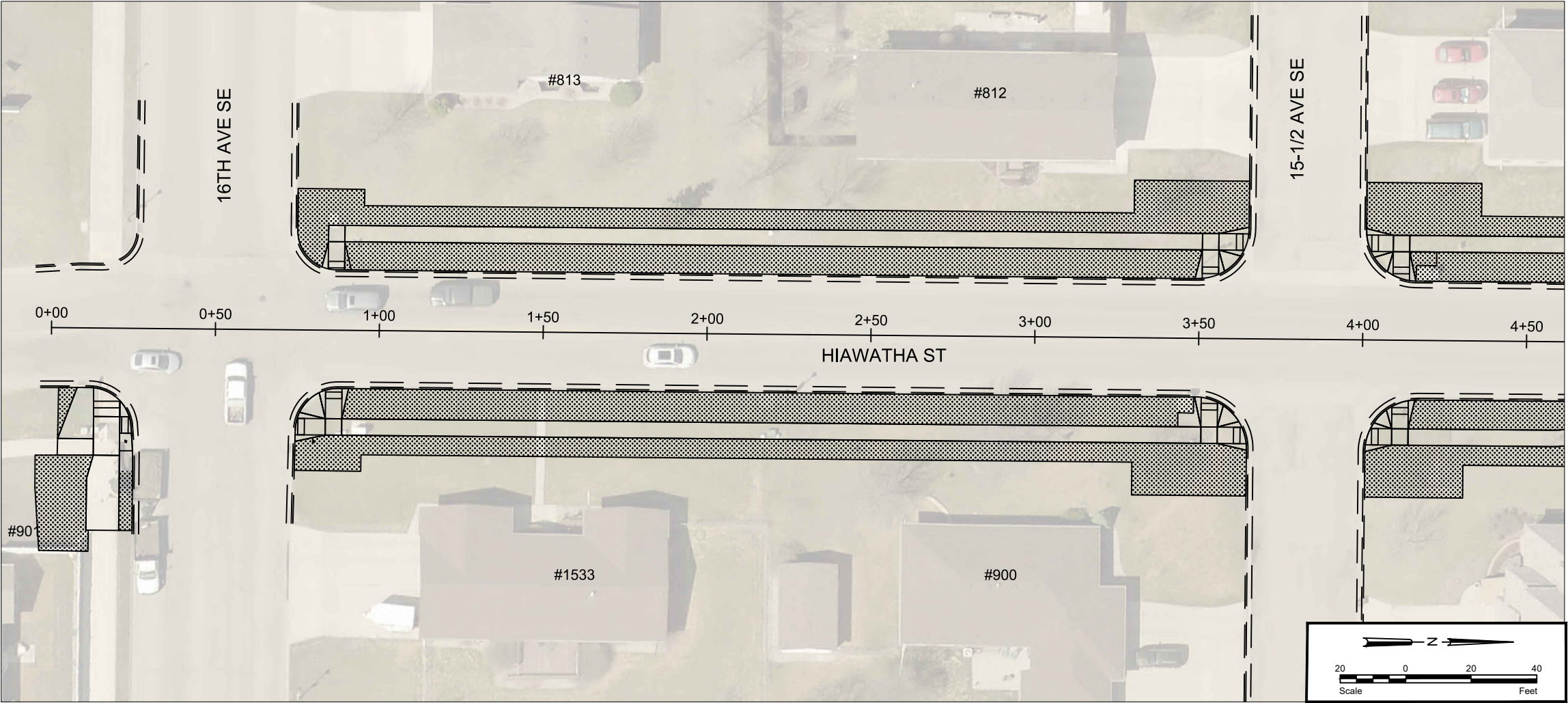
-  SEEDING CLASS 3 AND HYDRAULIC MULCH
-  SALVAGE & REPLACE ROCK

City of Minot
Engineering Department



PERMANENT SEDIMENT AND
EROSION CONTROL
STA 26+00 TO 35+41

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	77	5
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	77	5

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	296
251	300	SEEDING CLASS III	ACRE	0.37
253	200	HYDRAULIC MULCH	SY	1776

LEGEND

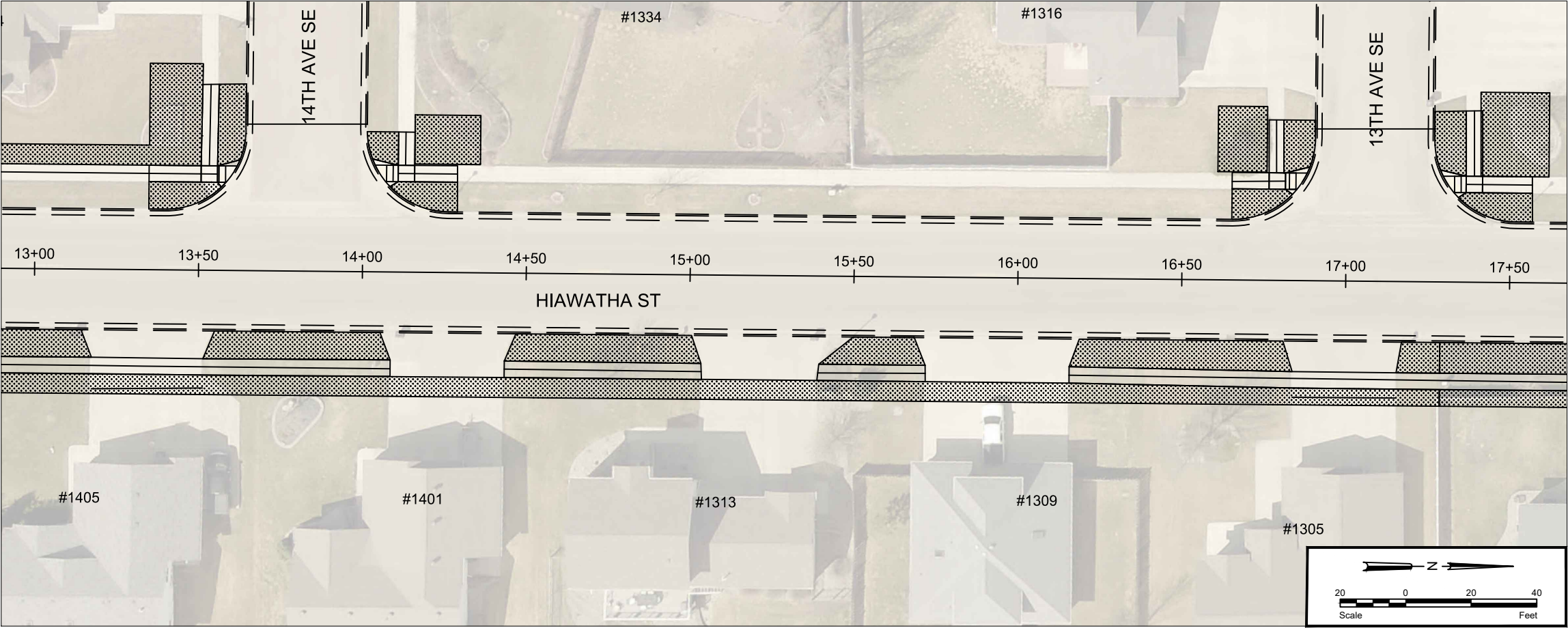
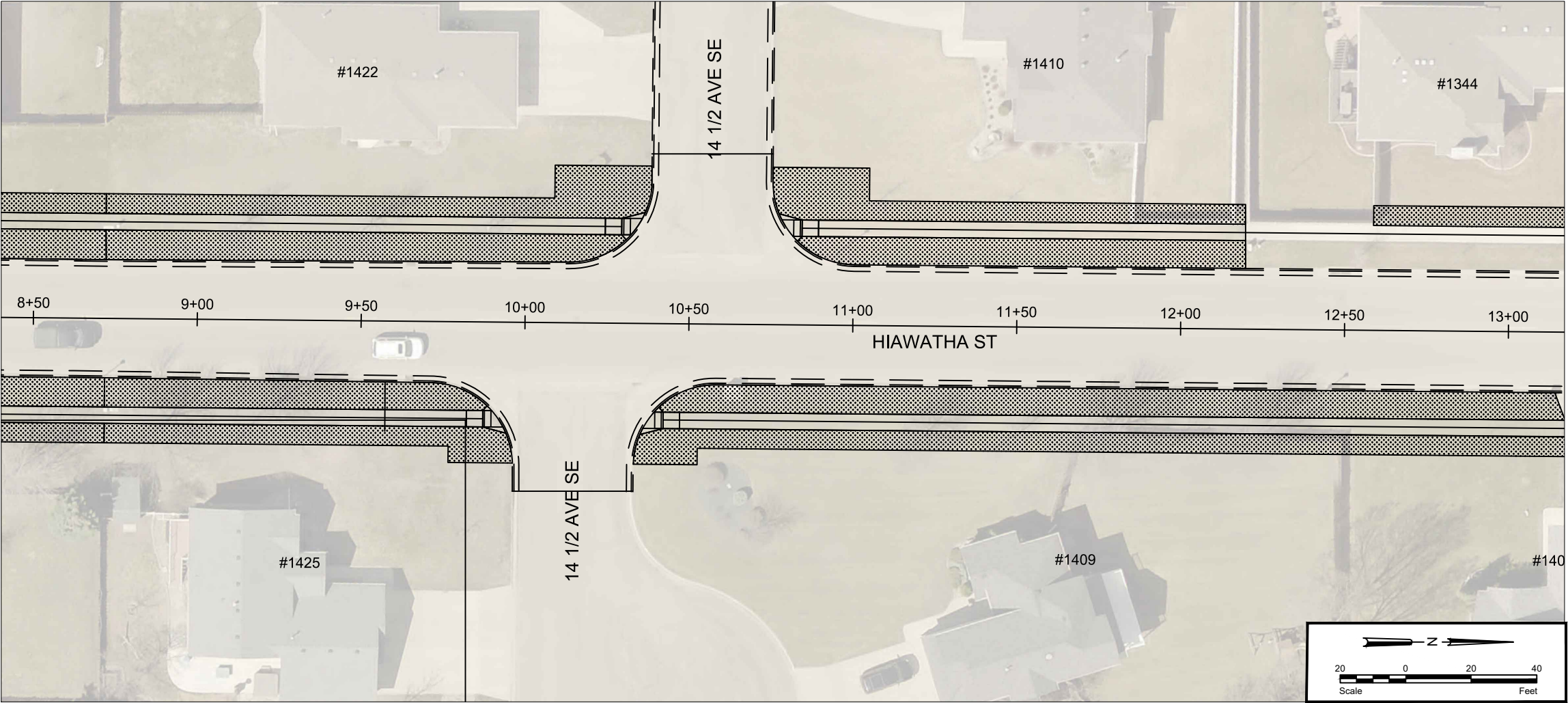
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City of Minot
Engineering Department



PERMANENT SEDIMENT AND
EROSION CONTROL
STA 0+00 TO 8+72

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	77	6
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	77	6

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	322
251	300	SEEDING CLASS III	ACRE	0.40
253	200	HYDRAULIC MULCH	SY	1934

LEGEND

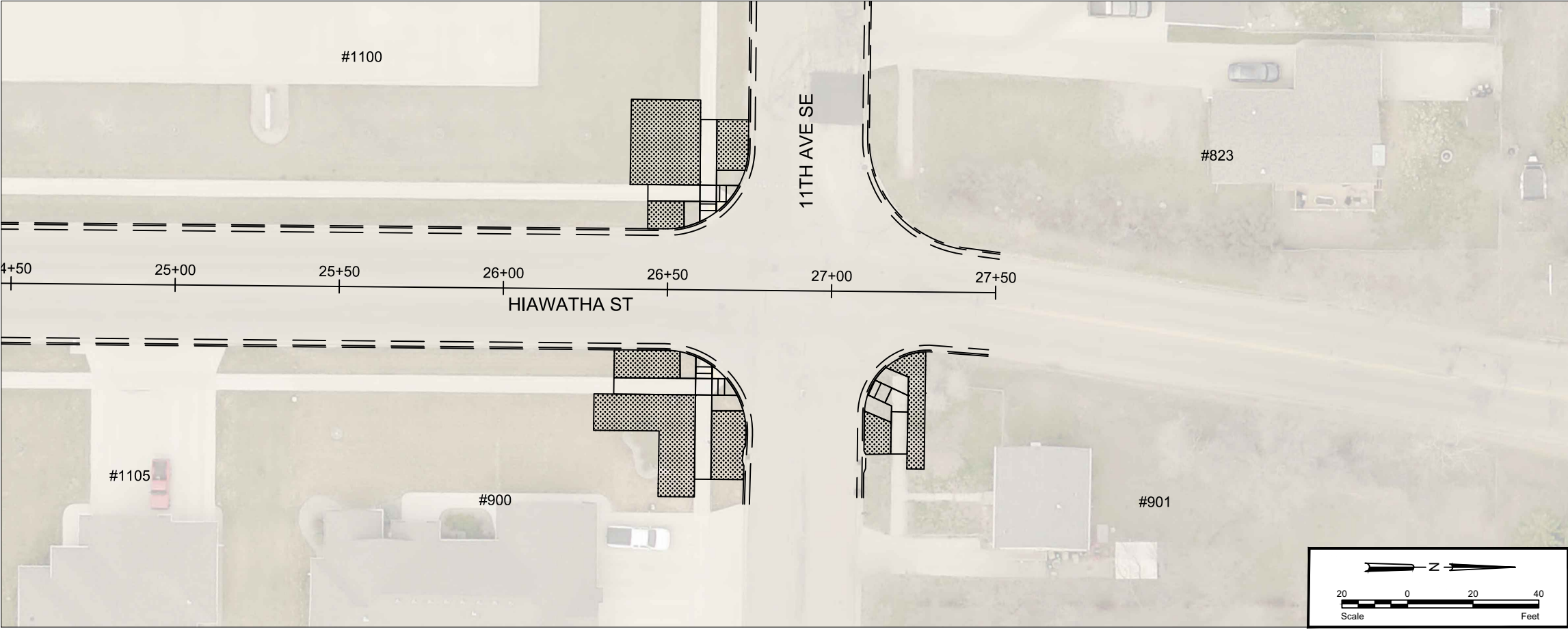
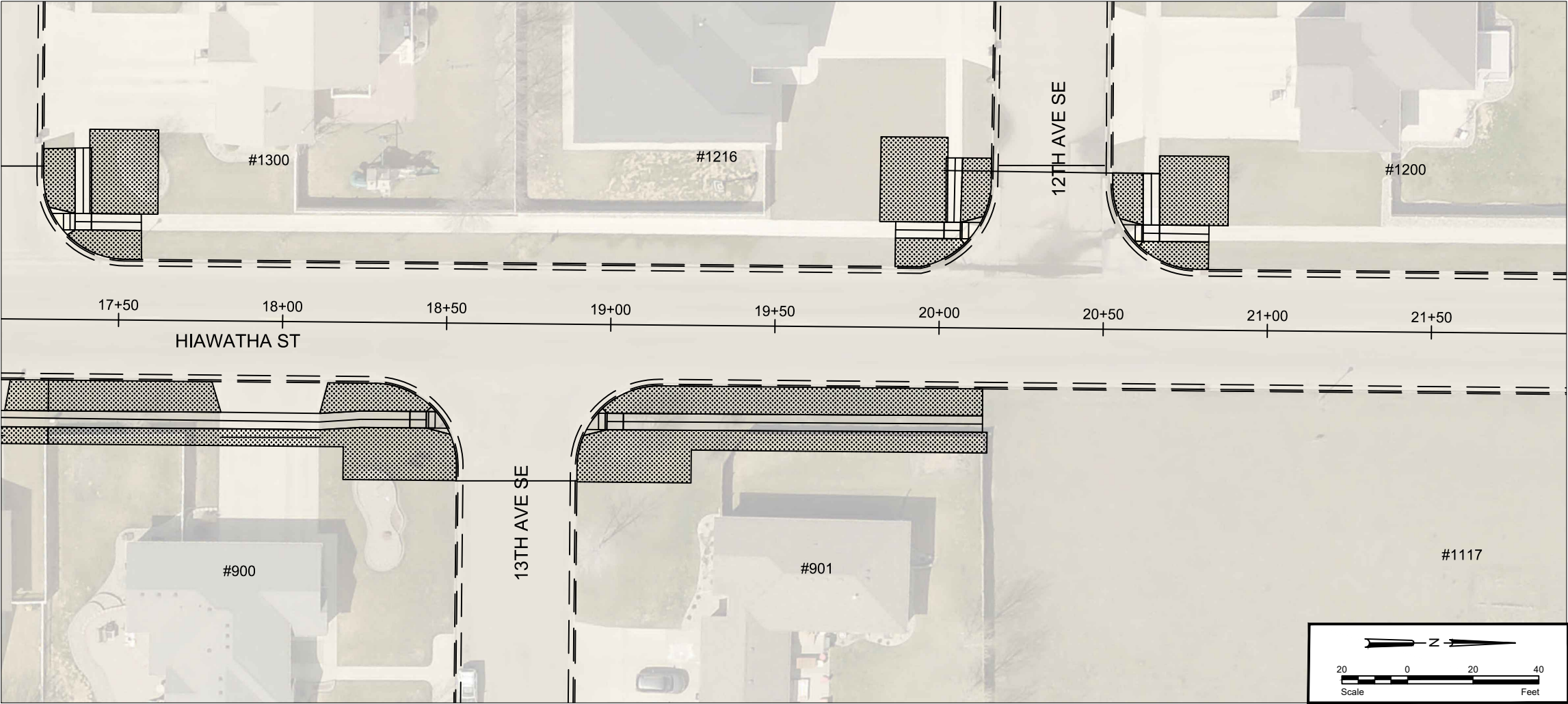
 SEEDING CLASS 3 AND HYDRAULIC MULCH

City of Minot
Engineering Department



PERMANENT SEDIMENT AND
EROSION CONTROL
8+72 TO 17+29

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	77	7
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	77	7

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	119	TOPSOIL - IMPORTED	CY	151
251	300	SEEDING CLASS III	ACRE	0.19
253	200	HYDRAULIC MULCH	SY	909

LEGEND

	SEEDING CLASS 3 AND HYDRAULIC MULCH
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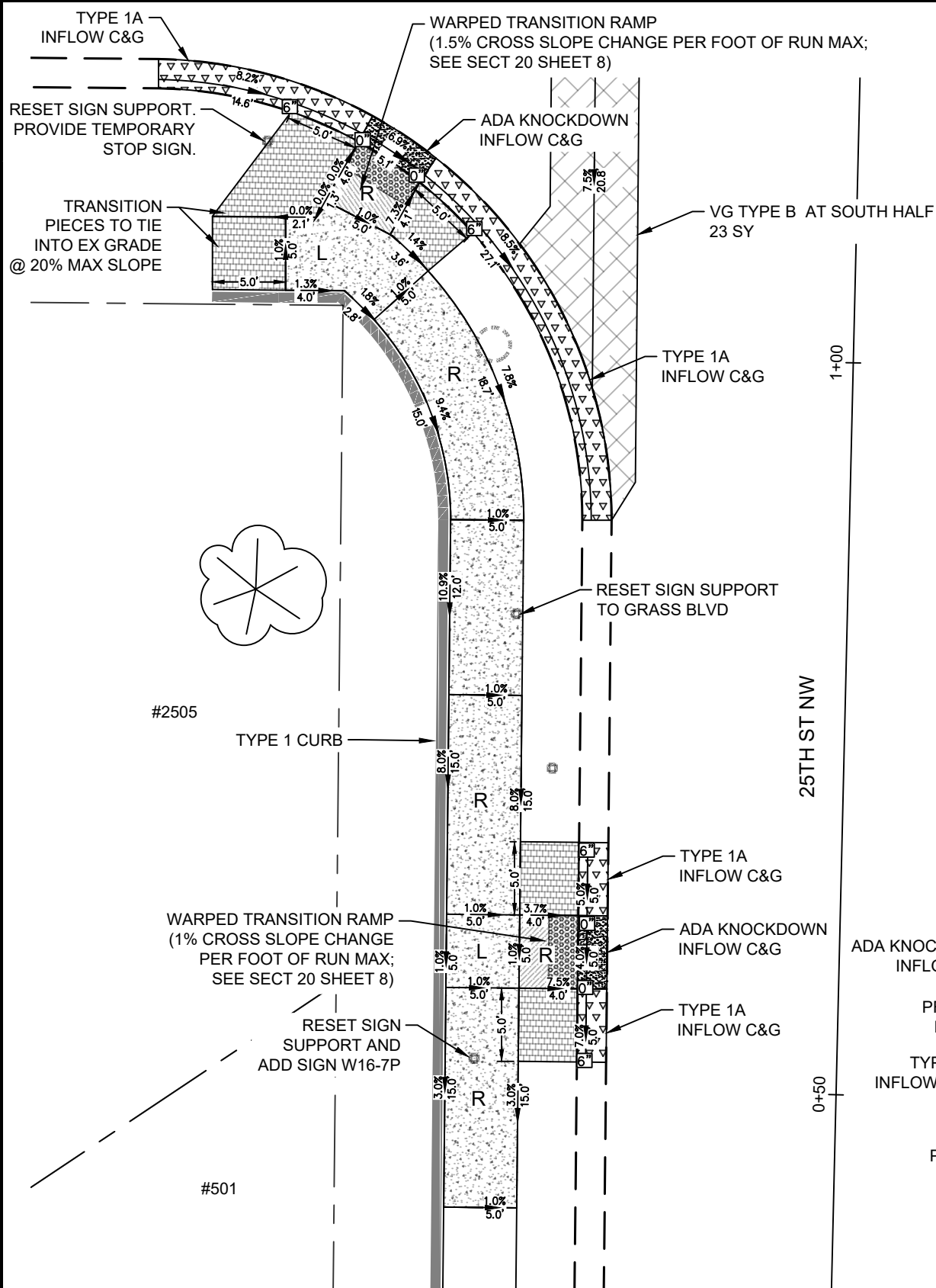
City of Minot
Engineering Department



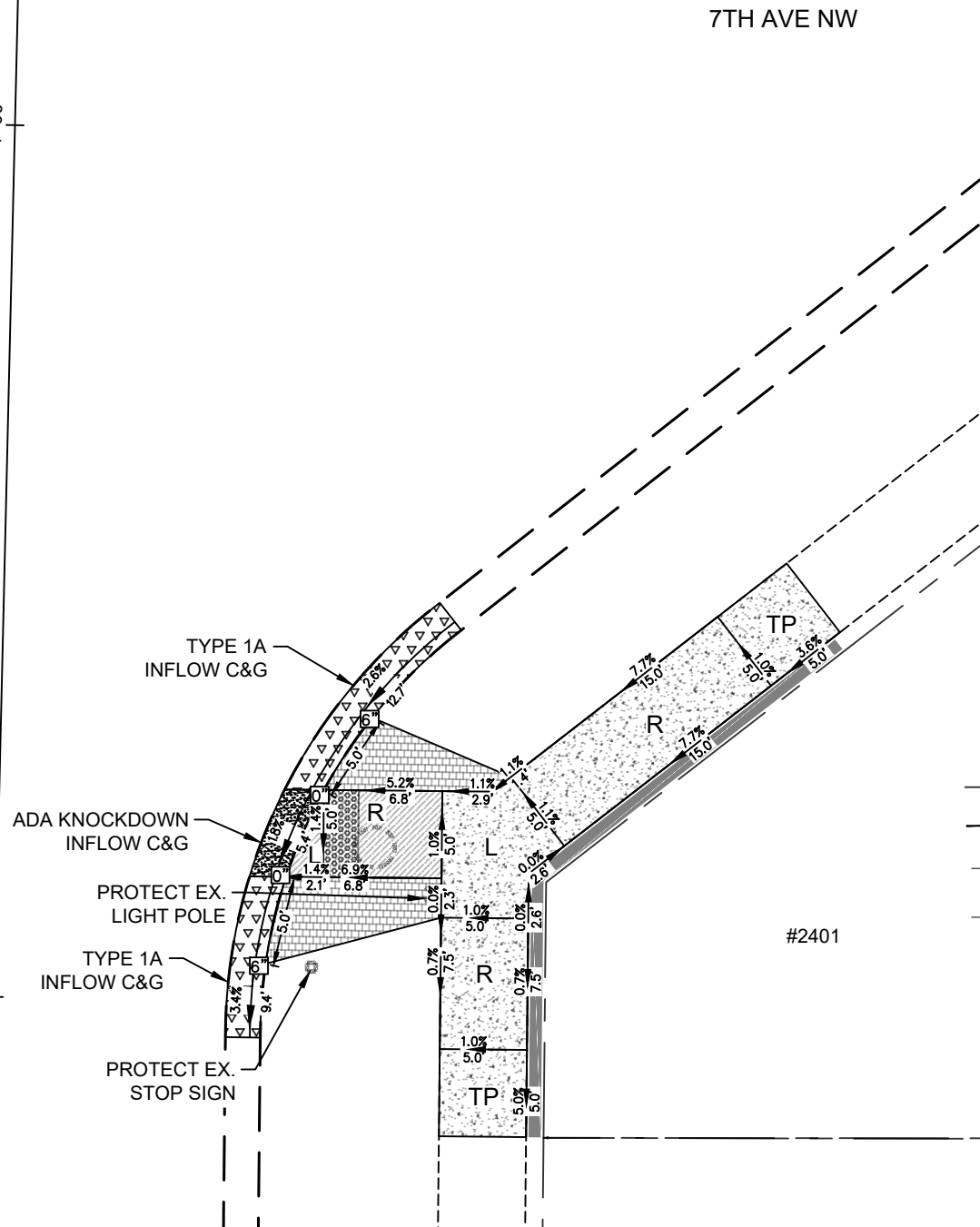
PERMANENT SEDIMENT AND
EROSION CONTROL
17+29 TO 27+50

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11/18/2022



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72 IN	SY	23
750	30	PIGMENTED IMPRINTED CONCRETE	SY	20
750	115	SIDEWALK CONCRETE 4 IN	SY	63
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	30
754	593	RESET SIGN SUPPORT	EA	3

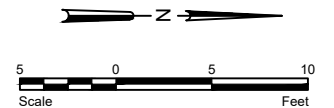


LEGEND

	CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	PROVIDE A 1:10 MAXIMUM SLOPE FLARE
	WATER FLOW DIRECTION
	ADA RAMP WITH MAX SLOPE OF 1:12
	TRANSITIONAL TIE-IN PANEL
	LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	FENCE
	EXISTING CURB AND GUTTER
	EXISTING VALLEY GUTTER
	CATCH BASIN
	UTILITY/SIGN

ABBREVIATIONS

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



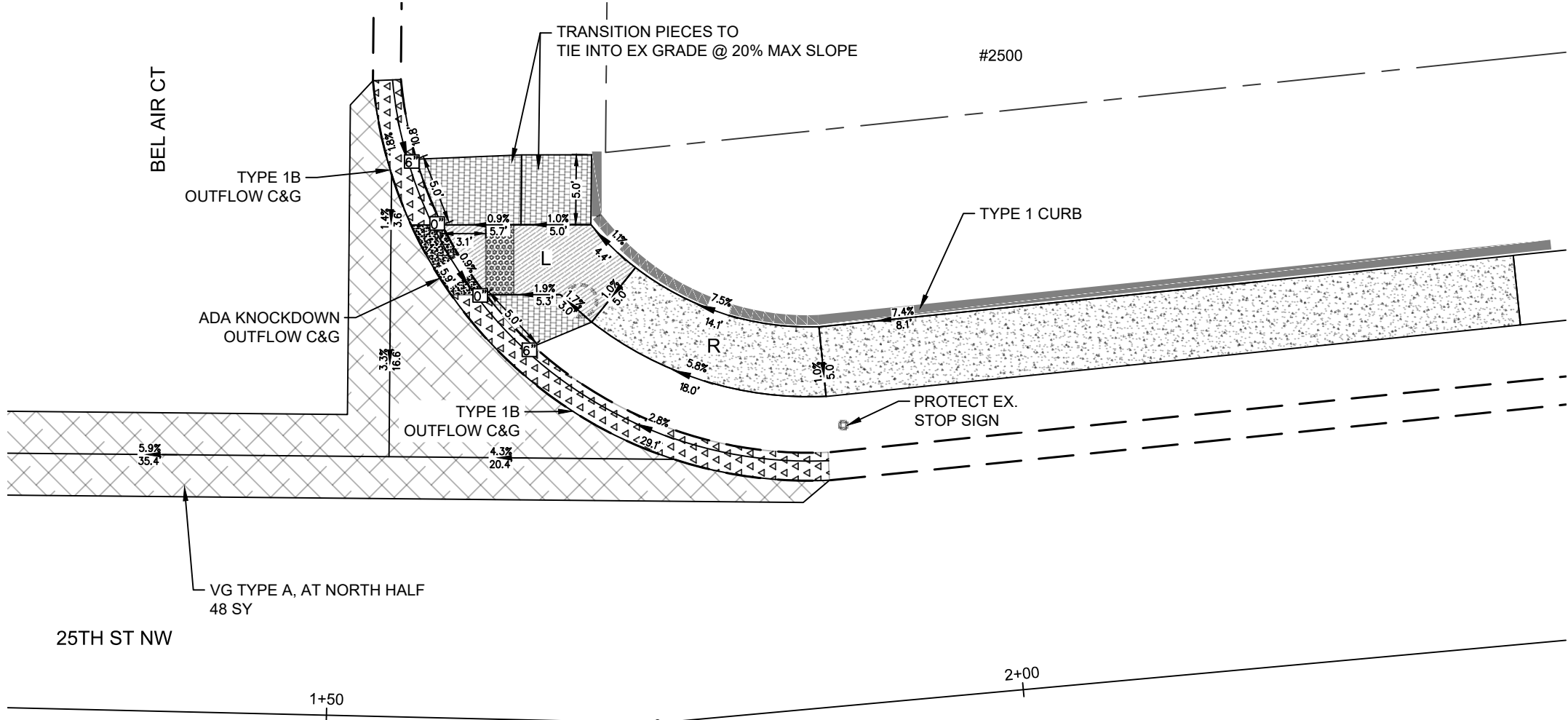
City of Minot
Engineering Department



ADA RAMP LAYOUT
25TH ST NW & BEL AIR CT

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11/18/2022



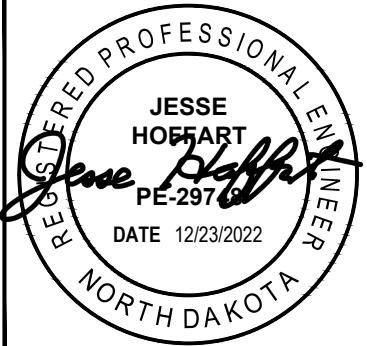
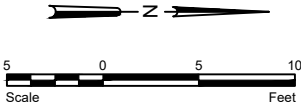
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	2

LEGEND

-
- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- 0"
-
- 1:10
-
- WATER FLOW DIRECTION
-
- R
-
- TP
-
- L
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE
-
- PROPERTY LINE
-
- FENCE
-
- EXISTING CURB AND GUTTER
-
- EXISTING VALLEY GUTTER
-
- CATCH BASIN
-
- UTILITY/SIGN

ABBREVIATIONS

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



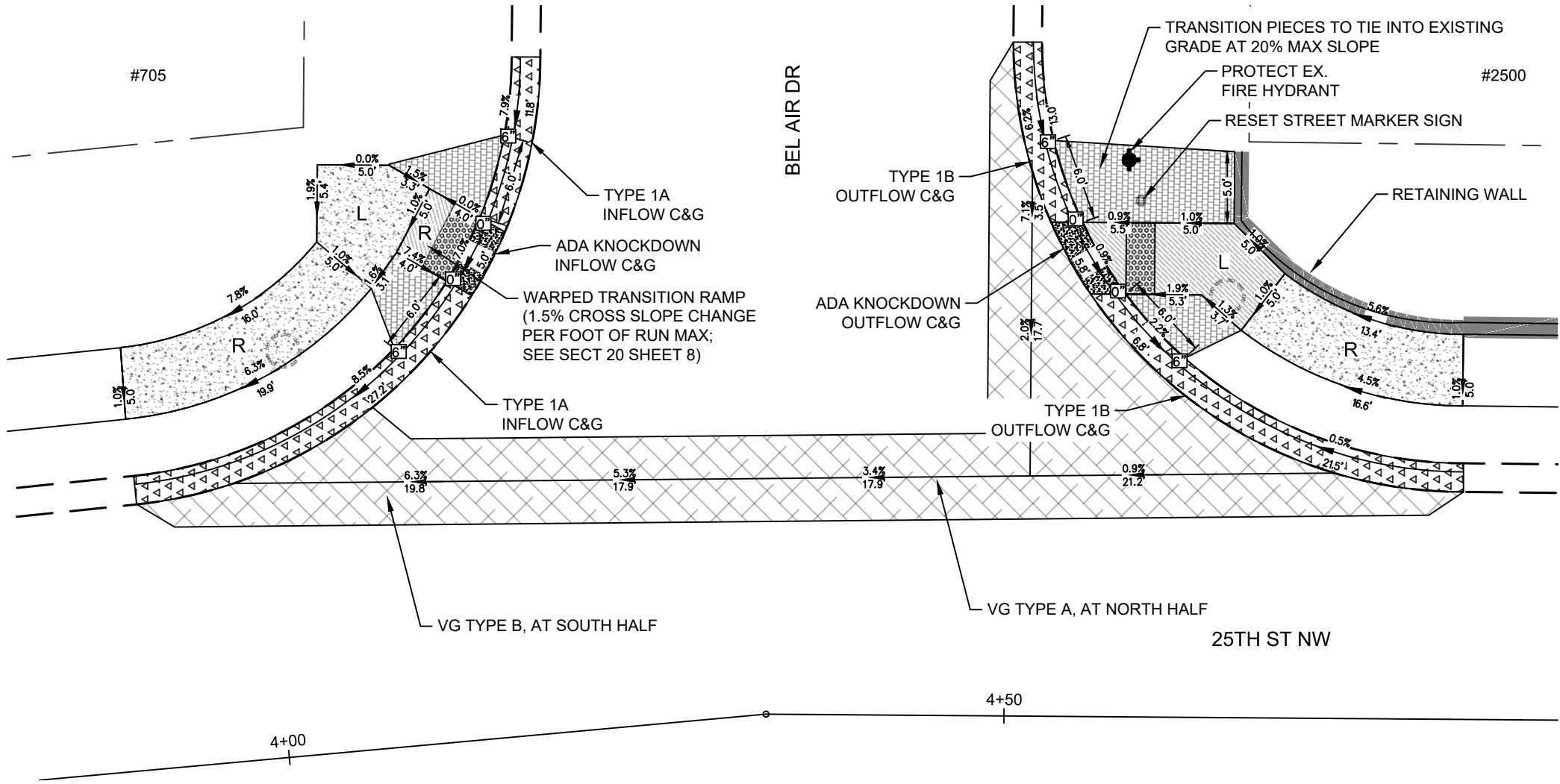
ADA RAMP LAYOUT
25TH ST NW & BEL AIR CT

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72 IN	SY	48
750	30	PIGMENTED IMPRINTED CONCRETE	SY	8
750	115	SIDEWALK CONCRETE 4 IN	SY	37
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10

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SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72 IN	SY	72
750	30	PIGMENTED IMPRINTED CONCRETE	SY	14
750	115	SIDEWALK CONCRETE 4 IN	SY	23
750	140	SIDEWALK CONCRETE 6 IN	SY	9
750	2115	DETECTABLE WARNING PANELS	SF	20
754	593	RESET SIGN SUPPORT	EA	1

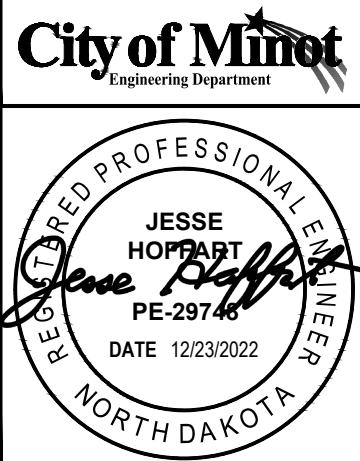


LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- R ADA RAMP WITH MAX SLOPE OF 1:12
- TP TRANSITIONAL TIE-IN PANEL
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- FENCE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- CATCH BASIN
- UTILITY/SIGN

ABBREVIATIONS

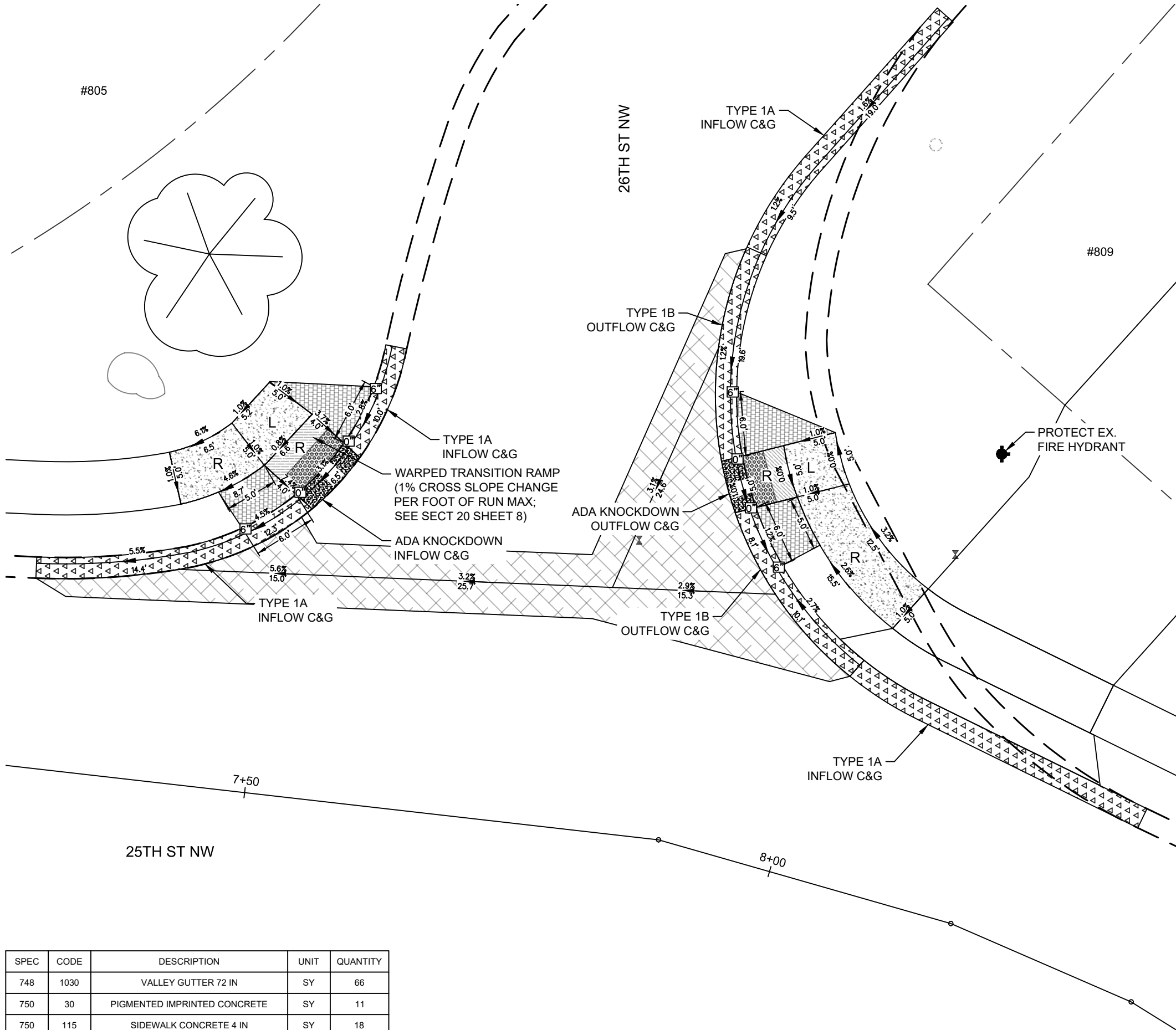
- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE



ADA RAMP LAYOUT
25TH ST NW & BEL AIR DR

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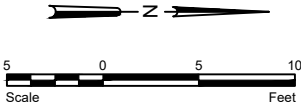
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	4
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	4

LEGEND

-
- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
-
- PROVIDE A 1:10 MAXIMUM SLOPE FLARE
-
- WATER FLOW DIRECTION
-
- ADA RAMP WITH MAX SLOPE OF 1:12
-
- TRANSITIONAL TIE-IN PANEL
-
- LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE
-
- PROPERTY LINE
-
- FENCE
-
- EXISTING CURB AND GUTTER
-
- EXISTING VALLEY GUTTER
-
- CATCH BASIN
-
- UTILITY/SIGN

ABBREVIATIONS

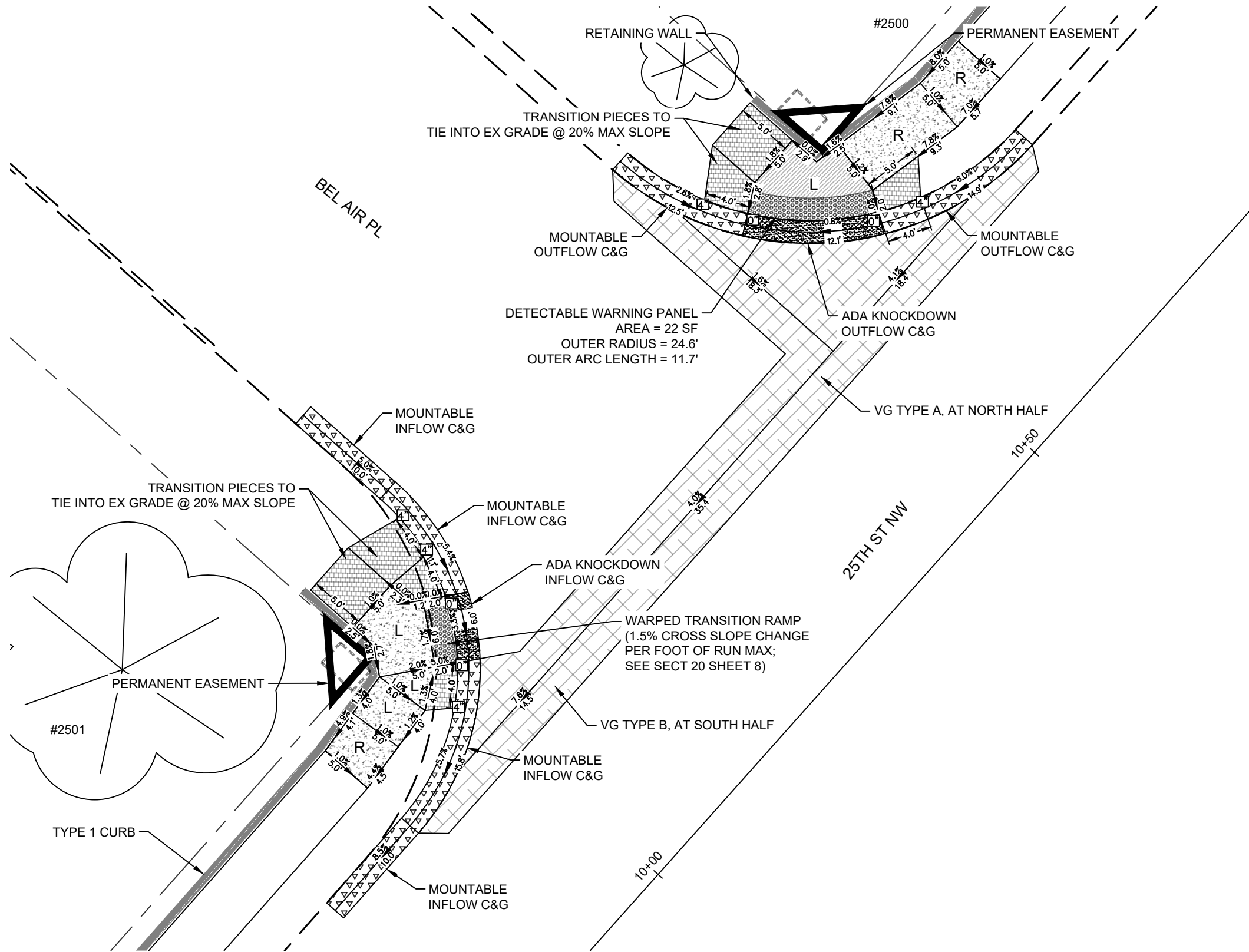
- TOS
- TOP OF SIDEWALK
- TBC
- TOP BACK OF CURB
- EX
- EXISTING
- FL
- FLOW LINE
- GT
- GUTTER TOE



ADA RAMP LAYOUT
25TH ST NW & 26TH ST NW

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11/18/2022



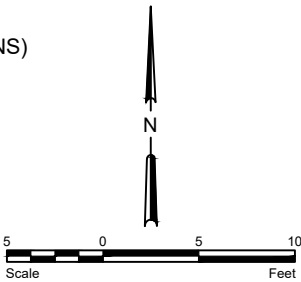
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	5
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	5

LEGEND

-
- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
-
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
-
- WATER FLOW DIRECTION
-
- R ADA RAMP WITH MAX SLOPE OF 1:12
-
- TP TRANSITIONAL TIE-IN PANEL
-
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE
-
- PROPERTY LINE
-
- FENCE
-
- EXISTING CURB AND GUTTER
-
- EXISTING VALLEY GUTTER
-
- CATCH BASIN
-
- UTILITY/SIGN

ABBREVIATIONS

- TOSTOP OF SIDEWALK
- TBCTOP BACK OF CURB
- EXEXISTING
- FLFLOW LINE
- GTGUTTER TOE



City of Minot
Engineering Department



ADA RAMP LAYOUT
25TH ST NW & BEL AIR PL

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72 IN	SY	61
750	30	PIGMENTED IMPRINTED CONCRETE	SY	13
750	115	SIDEWALK CONCRETE 4 IN	SY	37
750	140	SIDEWALK CONCRETE 6 IN	SY	18
750	2115	DETECTABLE WARNING PANELS	SF	35

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	6
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	6

LEGEND

- | | |
|--|---|
| | CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED) |
| | CURB AND GUTTER - ADA KNOCK DOWN |
| | 6" CONCRETE VALLEY GUTTER (REINFORCED) |
| | CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL) |
| | 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED) |
| | 4" CONCRETE SIDEWALK (NON-REINFORCED) |
| | 6" CONCRETE SIDEWALK (NON-REINFORCED) |
| | DETECTABLE WARNING PANEL |
| | BACK OF CURB HEIGHT RELATIVE TO FLOW LINE |
| | PROVIDE A 1:10 MAXIMUM SLOPE FLARE |
| | WATER FLOW DIRECTION |
| | ADA RAMP WITH MAX SLOPE OF 1:12 |
| | TRANSITIONAL TIE-IN PANEL |
| | LOW SLOPE AREA
(2% MAX SLOPE IN ALL DIRECTIONS) |
| | MANHOLE |
| | FIRE HYDRANT |
| | GATE VALVE |
| | PROPERTY LINE |
| | FENCE |
| | EXISTING CURB AND GUTTER |
| | EXISTING VALLEY GUTTER |
| | CATCH BASIN |
| | UTILITY/SIGN |
-
-

ABBREVIATIONS

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

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
722	6140	ADJUST GATE VALVE BOX	EA	1
750	30	PIGMENTED IMPRINTED CONCRETE	SY	12
750	115	SIDEWALK CONCRETE 4 IN	SY	19
750	140	SIDEWALK CONCRETE 6 IN	SY	8
750	2115	DETECTABLE WARNING PANELS	SF	25
754	593	RESET SIGN SUPPORT	EA	1

City of Minot
Engineering Department

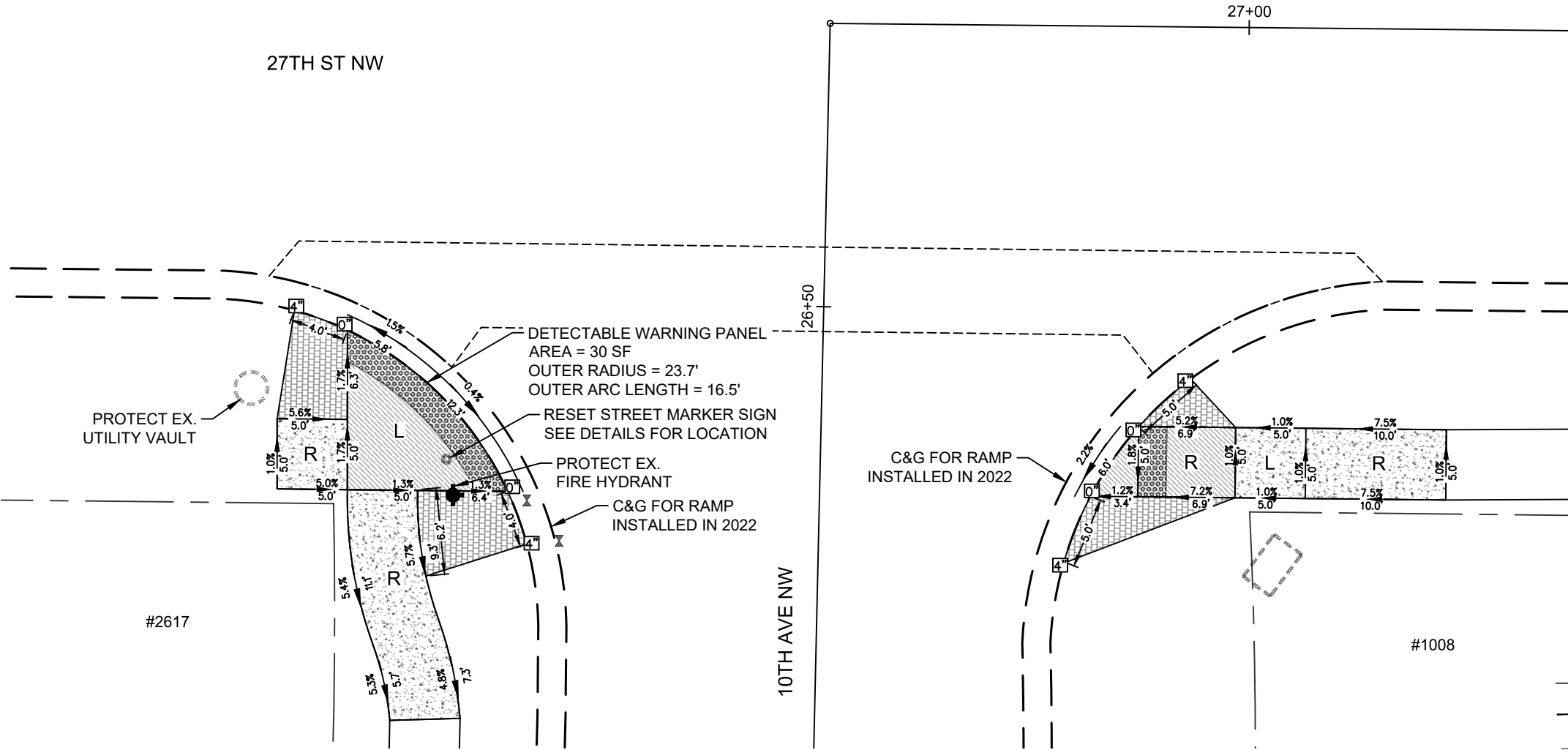
REGISTERED PROFESSIONAL ENGINEER
JESSE
HOPKART
Jesse Hopkart
PE-29748
DATE 12/23/2022
NORTH DAKOTA

ADA RAMP LAYOUT
10TH AVE NW & 26TH ST NW

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	7
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	7

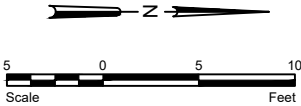


LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- R ADA RAMP WITH MAX SLOPE OF 1:12
- TP TRANSITIONAL TIE-IN PANEL
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- FENCE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- CATCH BASIN
- UTILITY/SIGN

ABBREVIATIONS

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



City of Minot
Engineering Department



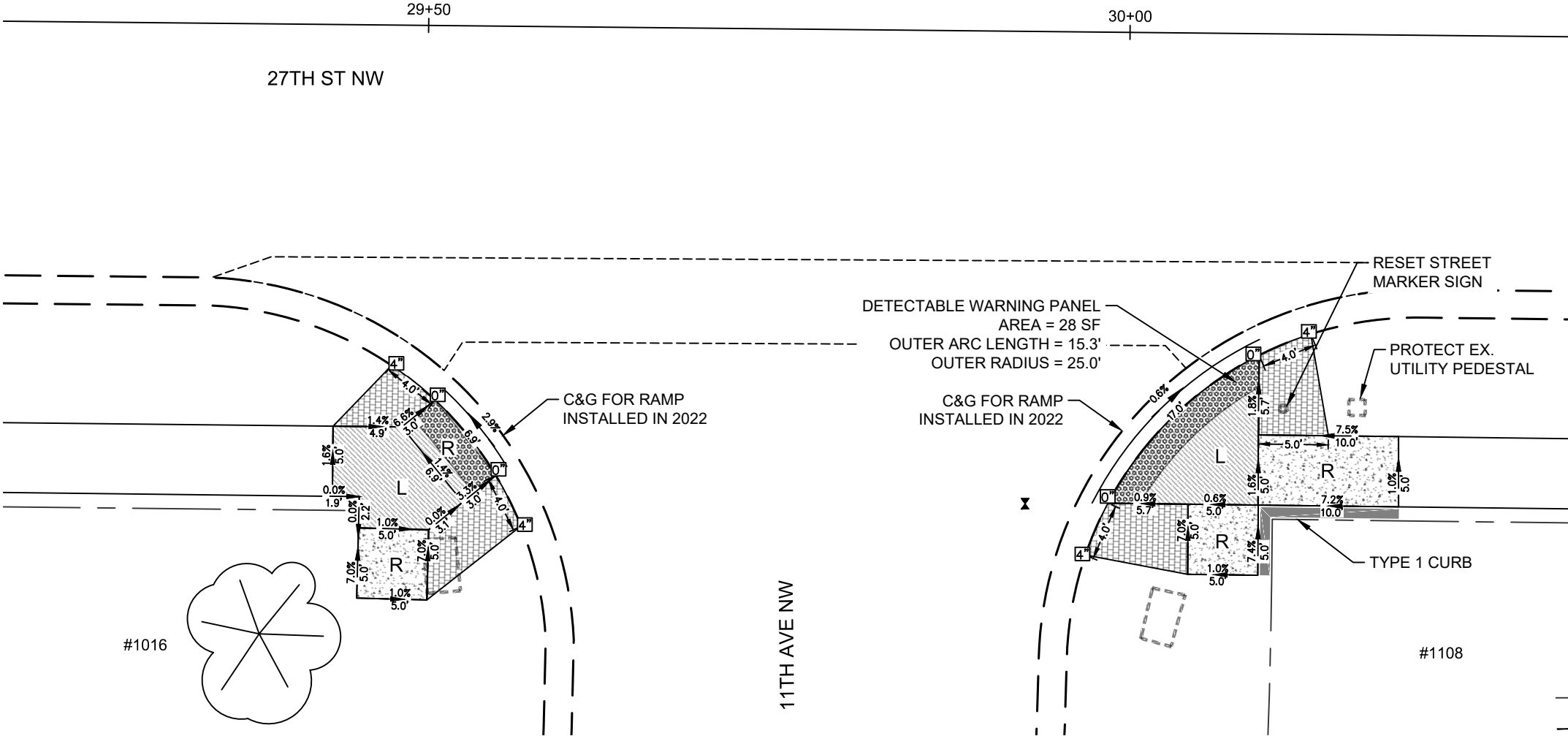
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	12
750	115	SIDEWALK CONCRETE 4 IN	SY	18
750	140	SIDEWALK CONCRETE 6 IN	SY	14
750	2115	DETECTABLE WARNING PANELS	SF	40
754	593	RESET SIGN SUPPORT	EA	1

ADA RAMP LAYOUT
10TH AVE NW & 27TH ST NW

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11/18/2022

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	8
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	8



LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- ADA RAMP WITH MAX SLOPE OF 1:12
- TRANSITIONAL TIE-IN PANEL
- LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- FENCE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- CATCH BASIN
- UTILITY/SIGN

ABBREVIATIONS

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

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	11
750	115	SIDEWALK CONCRETE 4 IN	SY	11
750	140	SIDEWALK CONCRETE 6 IN	SY	16
750	2115	DETECTABLE WARNING PANELS	SF	41
754	593	RESET SIGN SUPPORT	EA	1

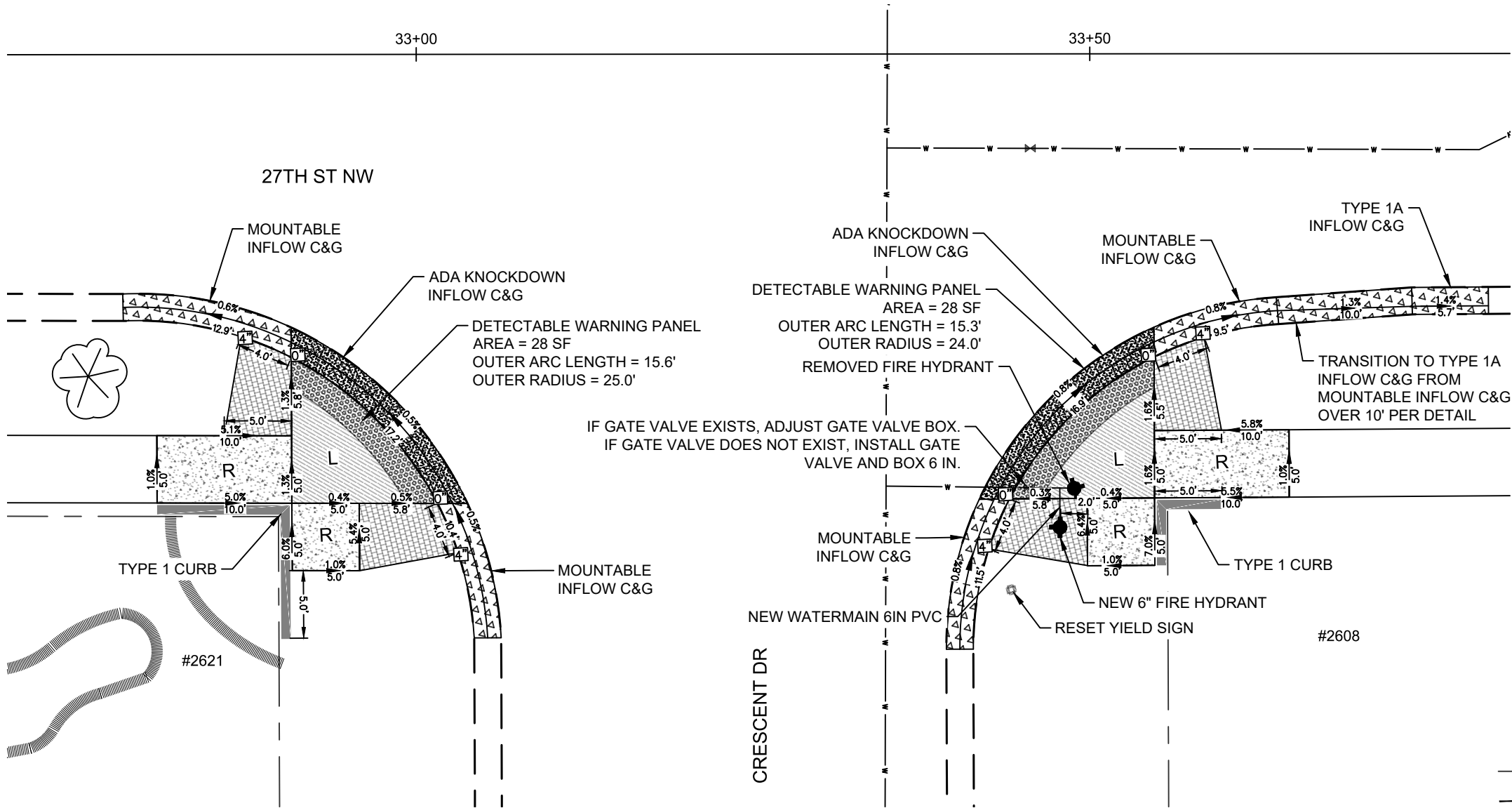
City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFART
PE-29748
DATE 12/23/2022
NORTH DAKOTA

ADA RAMP LAYOUT
27TH ST NW & 11TH AVE NW

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11/18/2022

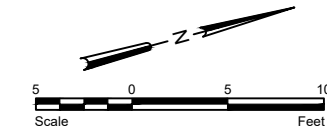


LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- R ADA RAMP WITH MAX SLOPE OF 1:12
- TP TRANSITIONAL TIE-IN PANEL
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- FENCE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- CATCH BASIN
- UTILITY/SIGN

ABBREVIATIONS

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



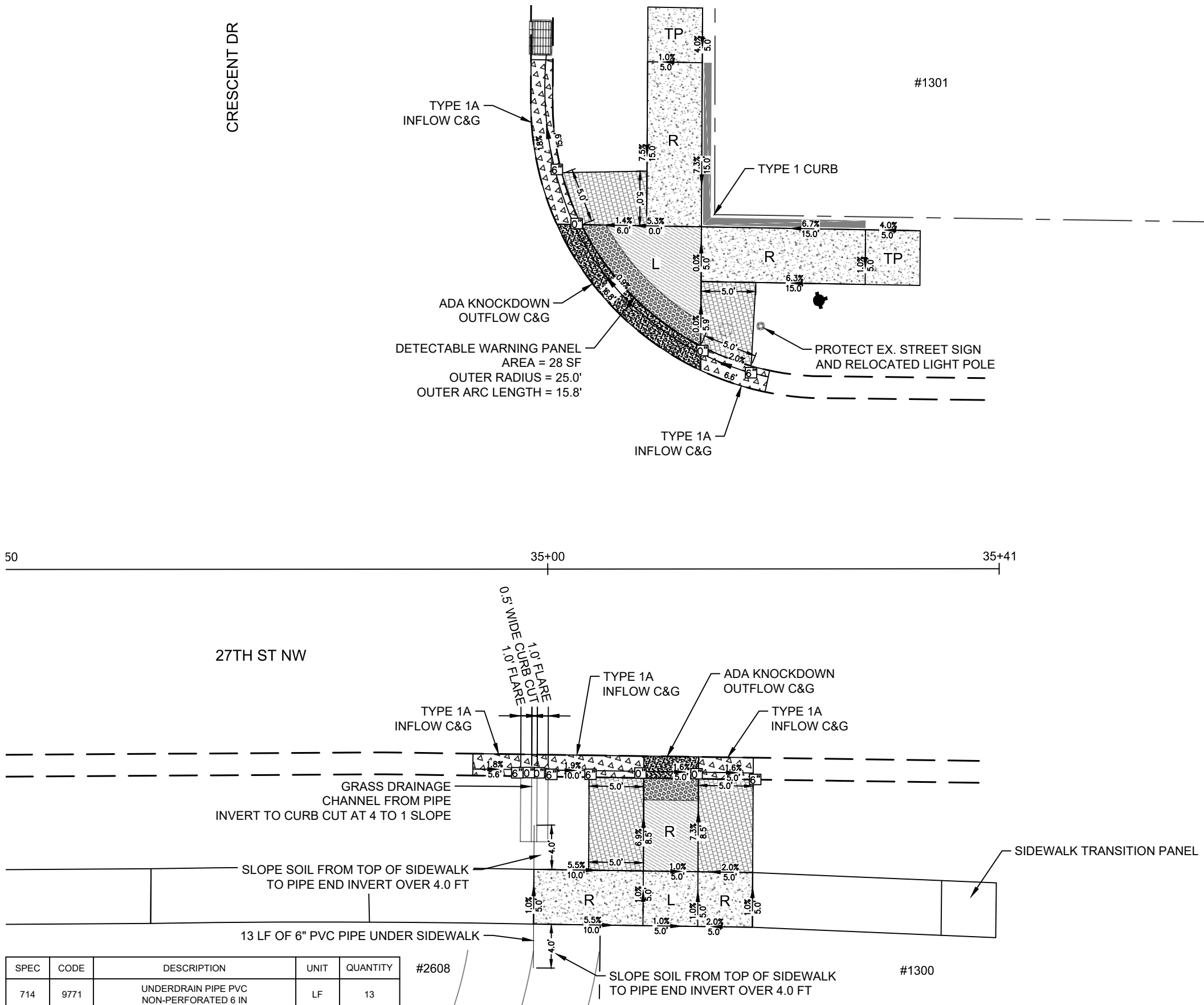
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
722	6140	ADJUST GATE VALVE BOX	EA	1
724	300	GATE VALVE BOX 6IN	EA	1
724	411	6IN HYDRANT	EA	1
724	430	REMOVE HYDRANT	EA	1
724	810	WATERMAIN 6IN PVC	LF	4
750	30	PIGMENTED IMPRINTED CONCRETE	SY	13
750	115	SIDEWALK CONCRETE 4 IN	SY	17
750	140	SIDEWALK CONCRETE 6 IN	SY	15
750	2115	DETECTABLE WARNING PANELS	SF	55
754	593	RESET SIGN SUPPORT	EA	1

City of Minot
Engineering Department



ADA RAMP LAYOUT
27TH ST NW & CRESCENT DR
EAST SIDE

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11/18/2022



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
714	9771	UNDERDRAIN PIPE PVC NON-PERFORATED 6 IN	LF	13
750	30	PIGMENTED IMPRINTED CONCRETE	SY	17
750	115	SIDEWALK CONCRETE 4 IN	SY	33
750	140	SIDEWALK CONCRETE 6 IN	SY	13
750	2115	DETECTABLE WARNING PANELS	SF	38
754	593	RESET SIGN SUPPORT	EA	1

LEGEND

	CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
	CURB AND GUTTER - ADA KNOCK DOWN
	6" CONCRETE VALLEY GUTTER (REINFORCED)
	CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
	6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
	4" CONCRETE SIDEWALK (NON-REINFORCED)
	6" CONCRETE SIDEWALK (NON-REINFORCED)
	DETECTABLE WARNING PANEL
	BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
	PROVIDE A 1:10 MAXIMUM SLOPE FLARE
	WATER FLOW DIRECTION
	ADA RAMP WITH MAX SLOPE OF 1:12
	TRANSITIONAL TIE-IN PANEL
	LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
	MANHOLE
	FIRE HYDRANT
	GATE VALVE
	PROPERTY LINE
	FENCE
	EXISTING CURB AND GUTTER
	EXISTING VALLEY GUTTER
	CATCH BASIN
	UTILITY/SIGN

ABBREVIATIONS

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

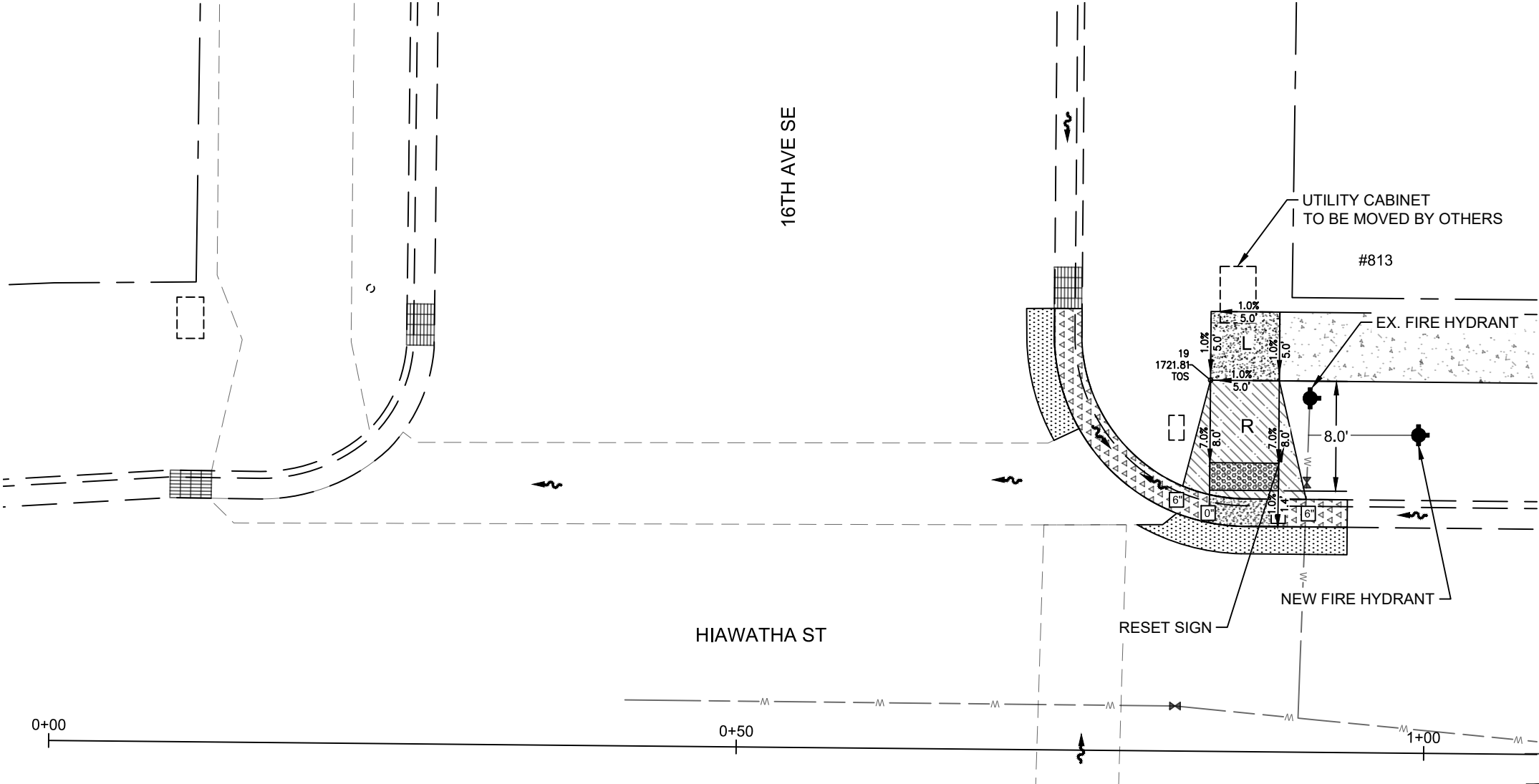
City of Minot
Engineering Department



ADA RAMP LAYOUT
27TH ST NW & CRESCENT DR
NORTH SIDE

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11/18/2022



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	11
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	11

LEGEND

-
- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- 0"
-
- 1:10
-
- WATER FLOW DIRECTION
-
- R
-
- TP
-
- L
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE
-
- PROPERTY LINE
-
- FENCE
-
- EXISTING CURB AND GUTTER
-
- EXISTING VALLEY GUTTER
-
- CATCH BASIN
-
- UTILITY/SIGN

ABBREVIATIONS

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

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	115	SIDEWALK CONCRETE 4 IN	SY	3
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	10
754	593	RESET SIGN SUPPORT	EA	1

City of Minot

Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

PE-29746

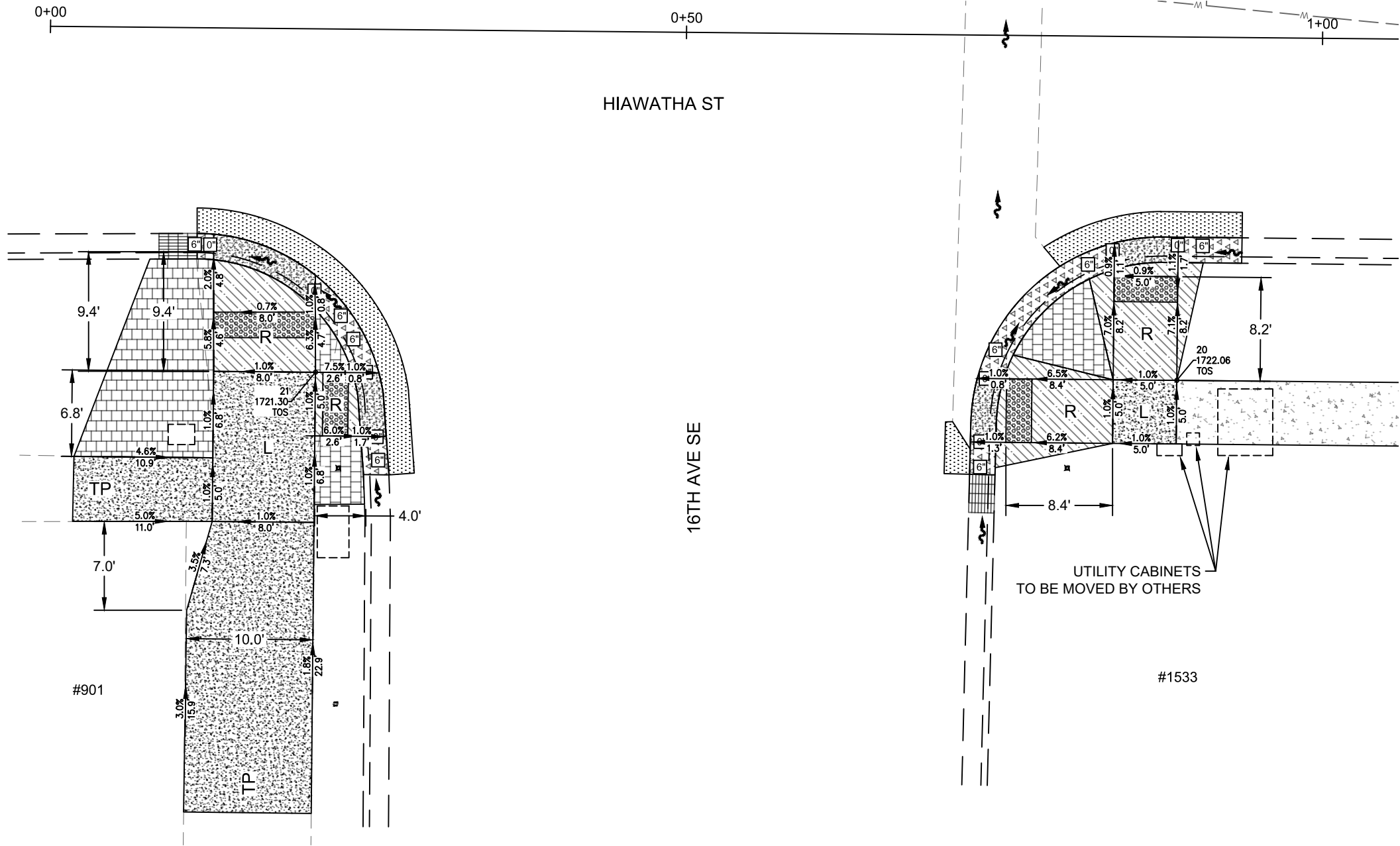
DATE 12/23/2022

NORTH DAKOTA

ADA RAMP LAYOUT
HIAWATHA ST & 16TH AVE SE
WEST SIDE

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11/18/2022



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	20
750	115	SIDEWALK CONCRETE 4 IN	SY	44
750	140	SIDEWALK CONCRETE 6 IN	SY	21
750	2115	DETECTABLE WARNING PANELS	SF	46

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	12
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	12

LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL

- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- R ADA RAMP WITH MAX SLOPE OF 1:12
- TP TRANSITIONAL TIE-IN PANEL
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE

PROPERTY LINE

FENCE

EXISTING CURB AND GUTTER

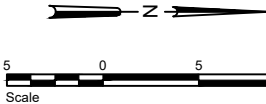
EXISTING VALLEY GUTTER

CATCH BASIN

UTILITY/SIGN

ABBREVIATIONS

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



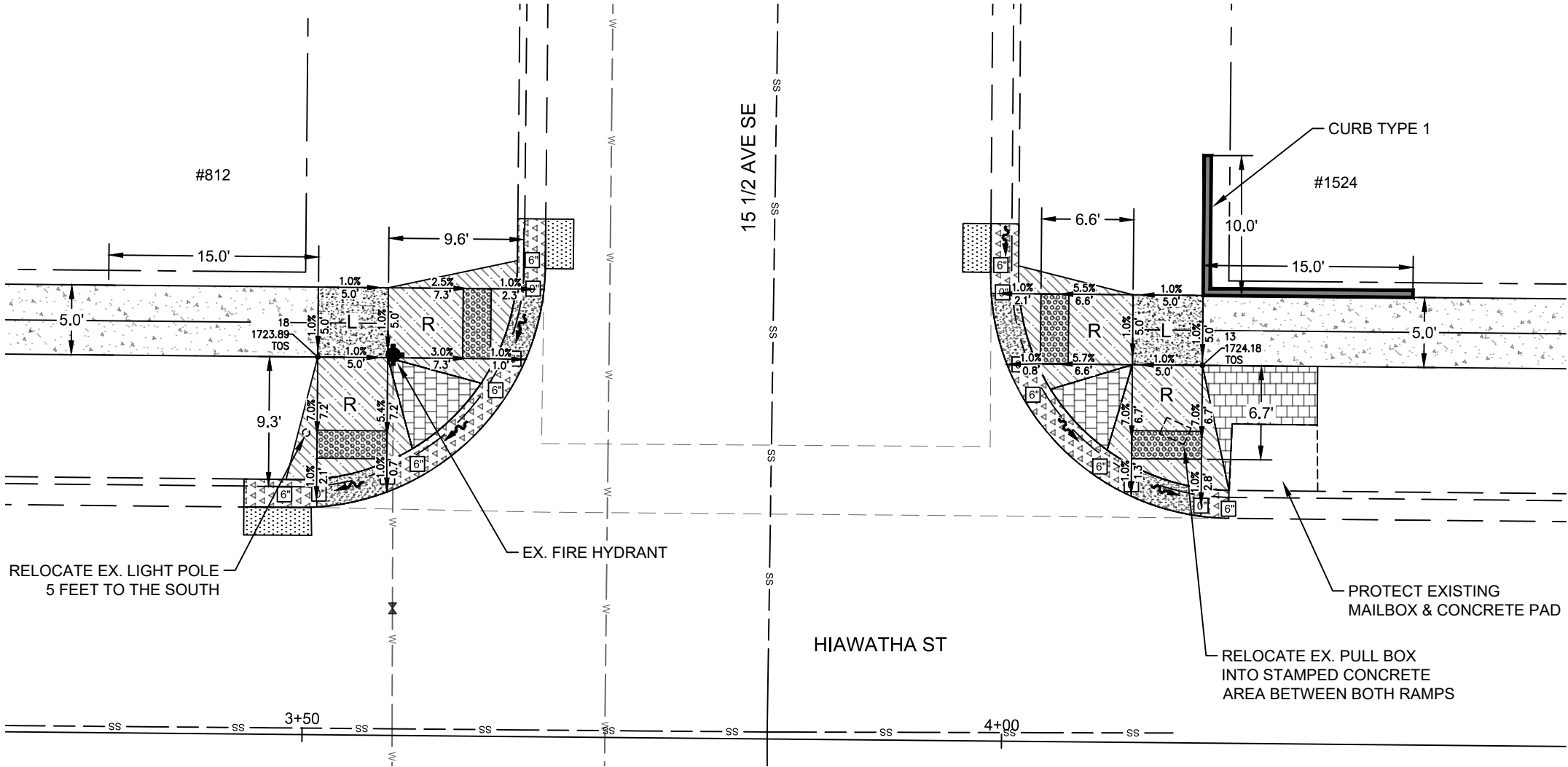
City of Minot
Engineering Department

JESSE HOFFART
PE-29746
DATE 12/23/2022
REGISTERED PROFESSIONAL ENGINEER
NORTH DAKOTA

ADA RAMP LAYOUT
HIAWATHA ST & 16TH AVE SE
EAST SIDE

P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

11/18/2022



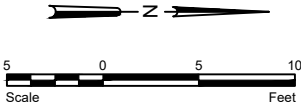
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	13
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	13

LEGEND

-
- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- 0"
-
- 1:10
-
- WATER FLOW DIRECTION
-
- R
-
- TP
-
- L
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE
-
- PROPERTY LINE
-
- FENCE
-
- EXISTING CURB AND GUTTER
-
- EXISTING VALLEY GUTTER
-
- CATCH BASIN
-
- UTILITY/SIGN

ABBREVIATIONS

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

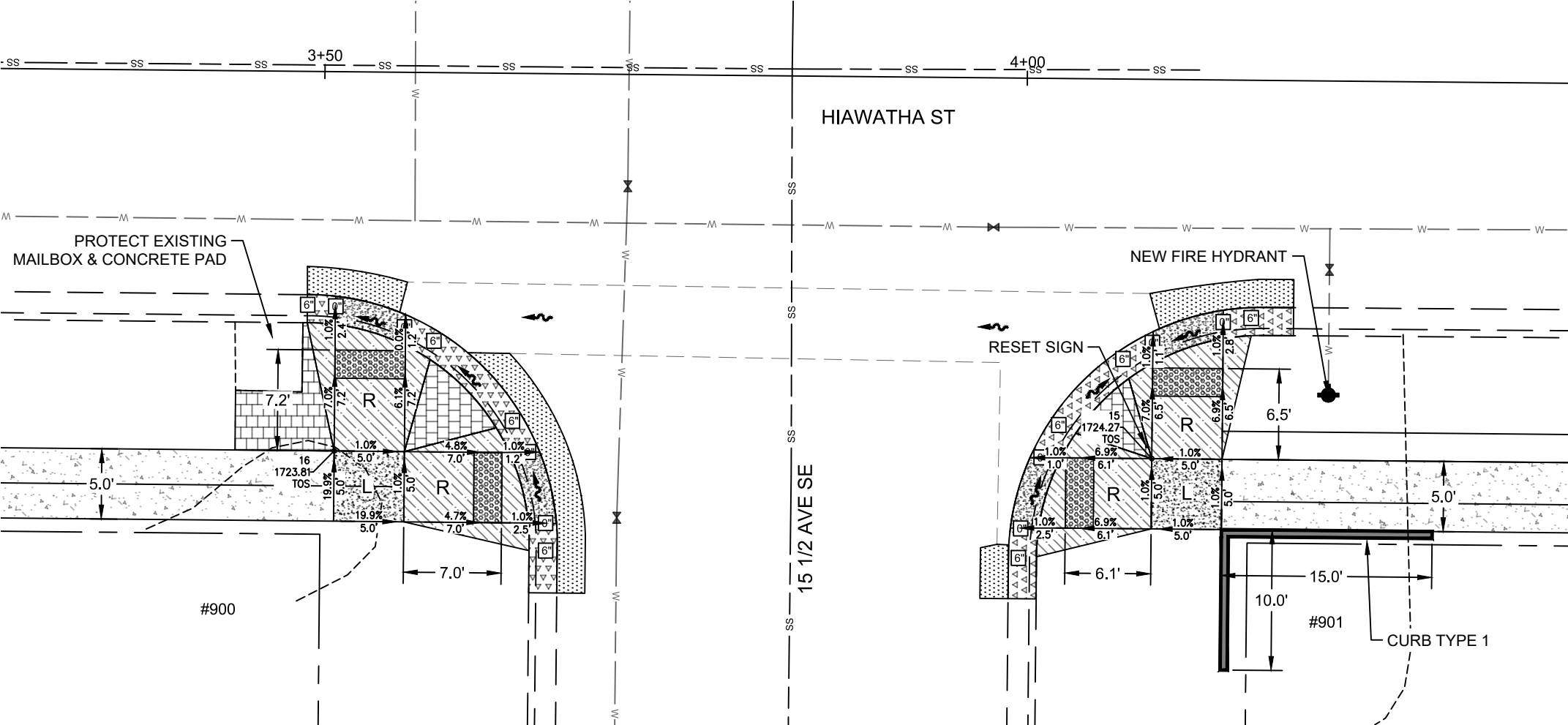


SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	8
750	115	SIDEWALK CONCRETE 4 IN	SY	6
750	140	SIDEWALK CONCRETE 6 IN	SY	25
750	2115	DETECTABLE WARNING PANELS	SF	40

ADA RAMP LAYOUT
HIAWATHA ST & 15 1/2 AVE SE
WEST SIDE

P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg 11/18/2022

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	14
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	14

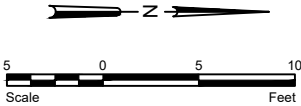


LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- R ADA RAMP WITH MAX SLOPE OF 1:12
- TP TRANSITIONAL TIE-IN PANEL
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- FENCE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- CATCH BASIN
- UTILITY/SIGN

ABBREVIATIONS

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



City of Minot
Engineering Department

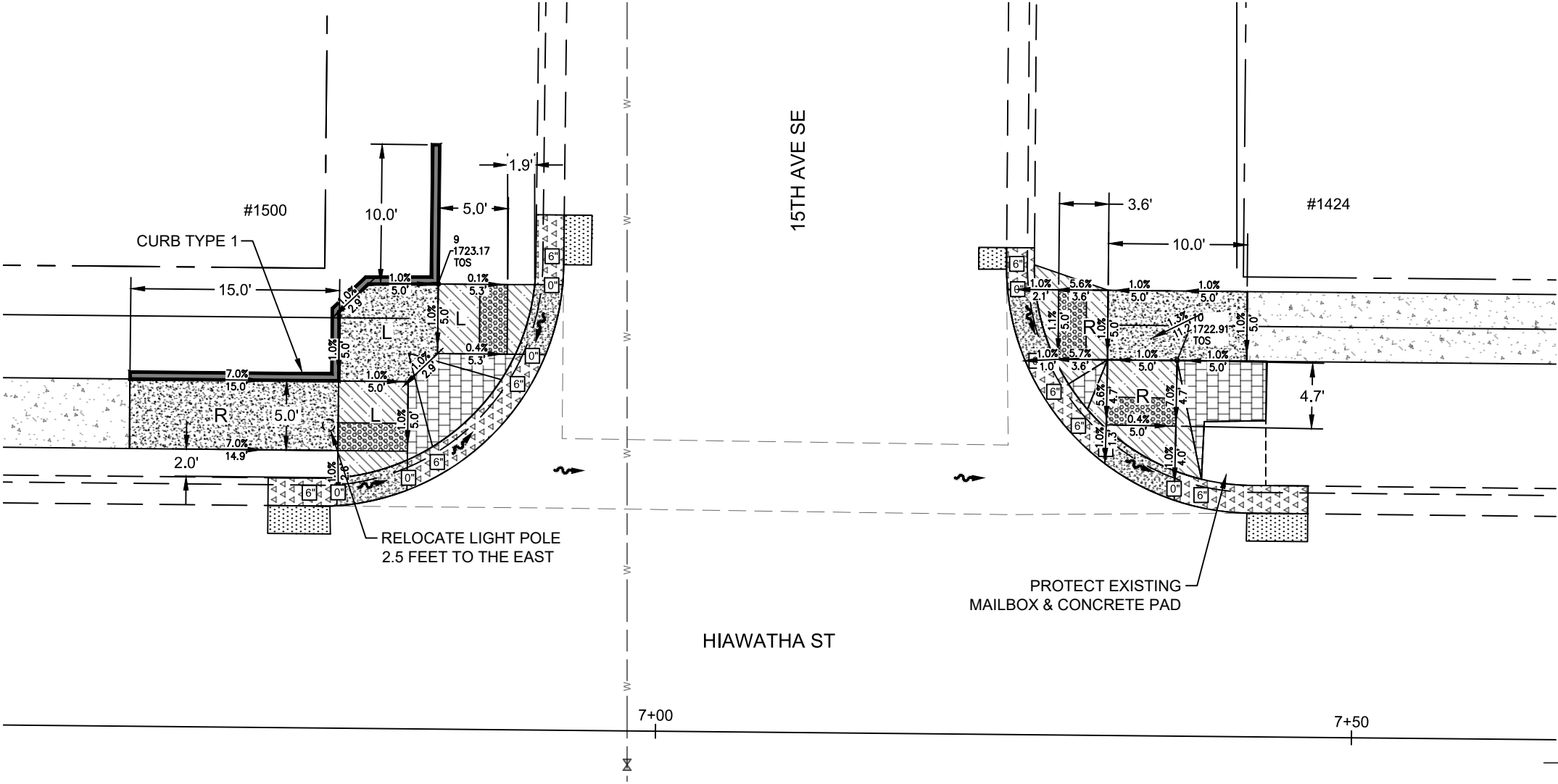


SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	8
750	115	SIDEWALK CONCRETE 4 IN	SY	6
750	140	SIDEWALK CONCRETE 6 IN	SY	24
750	2115	DETECTABLE WARNING PANELS	SF	40
754	593	RESET SIGN SUPPORT	EA	1

ADA RAMP LAYOUT
HIAWATHA ST & 15 1/2 AVE SE
EAST SIDE

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	8
750	115	SIDEWALK CONCRETE 4 IN	SY	19
750	140	SIDEWALK CONCRETE 6 IN	SY	16
750	2115	DETECTABLE WARNING PANELS	SF	40

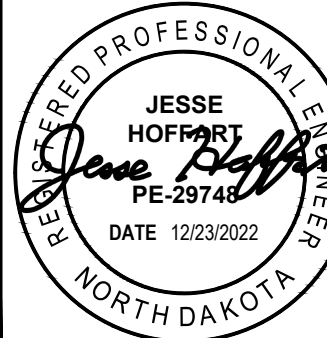
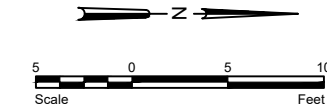


LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- R ADA RAMP WITH MAX SLOPE OF 1:12
- TP TRANSITIONAL TIE-IN PANEL
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- FENCE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- CATCH BASIN
- UTILITY/SIGN

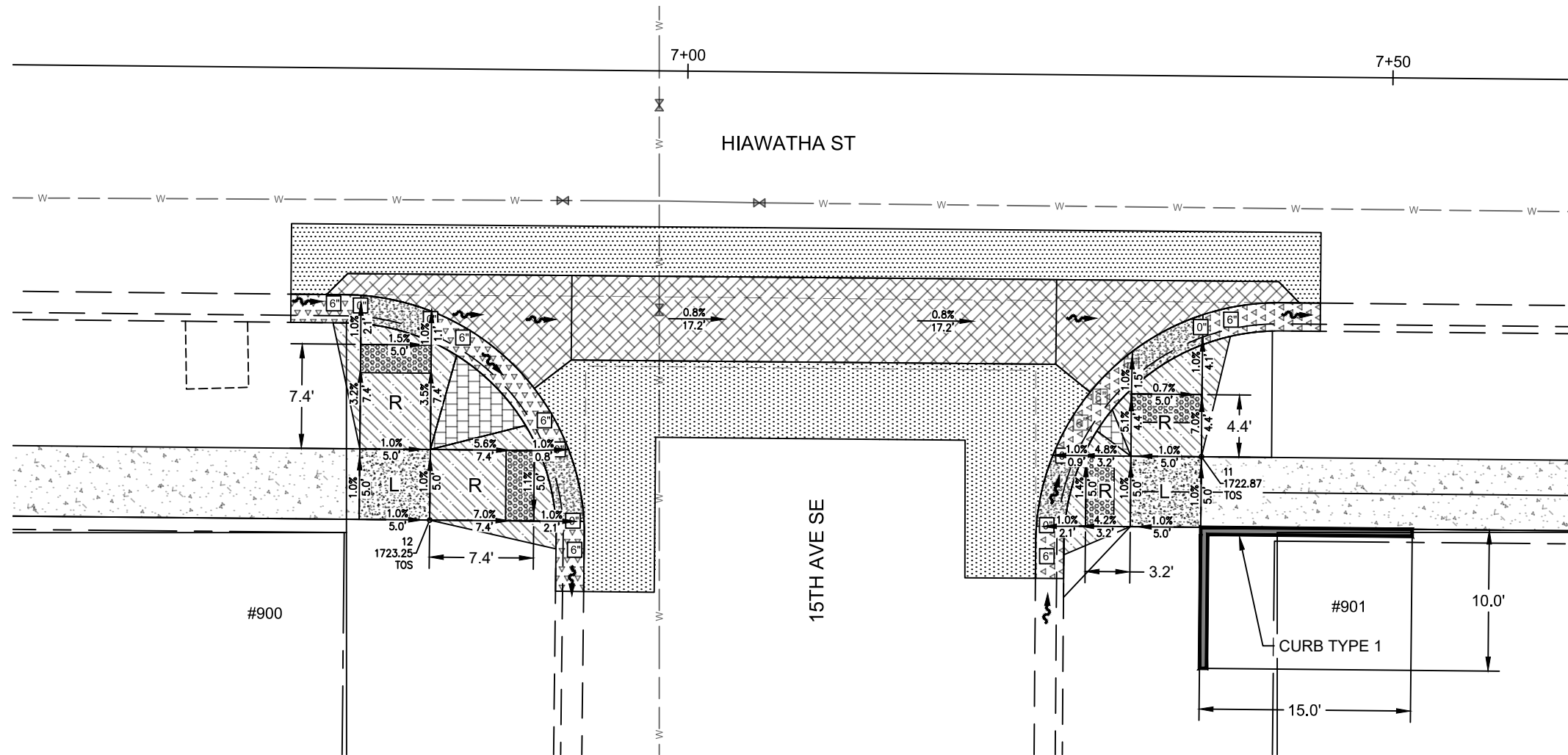
ABBREVIATIONS

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



ADA RAMP LAYOUT
HIAWATHA ST & 15TH AVE SE
WEST SIDE

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	16
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	16



LEGEND

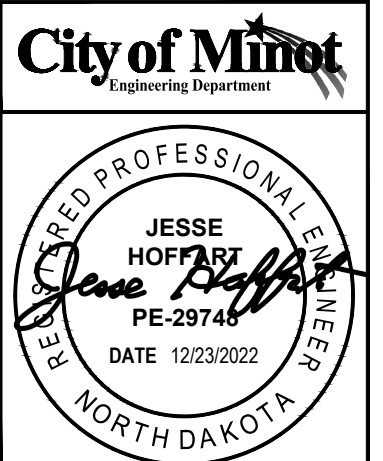
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|---|--|
|  | CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW,
OR MOUNTABLE (AS NOTED) |
|  | CURB AND GUTTER - ADA KNOCK DOWN |
|  | 6" CONCRETE VALLEY GUTTER (REINFORCED) |
|  | CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL) |
|  | 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED) |
|  | 4" CONCRETE SIDEWALK (NON-REINFORCED) |
|  | 6" CONCRETE SIDEWALK (NON-REINFORCED) |
|  | DETECTABLE WARNING PANEL |
|  | BACK OF CURB HEIGHT RELATIVE TO FLOW LINE |
|  | PROVIDE A 1:10 MAXIMUM SLOPE FLARE |
|  | WATER FLOW DIRECTION |
|  | ADA RAMP WITH MAX SLOPE OF 1:12 |
|  | TRANSITIONAL TIE-IN PANEL |
|  | LOW SLOPE AREA
(2% MAX SLOPE IN ALL DIRECTIONS) |
|  | MANHOLE |
|  | FIRE HYDRANT |
|  | GATE VALVE |
|  | PROPERTY LINE |
|  | FENCE |
|  | EXISTING CURB AND GUTTER |
|  | EXISTING VALLEY GUTTER |
|  | CATCH BASIN |
|  | UTILITY/SIGN |
- Scale 0 5 10 Feet
- City of Mino**
Engineering Department

PROFESSIONAL

ABBREVIATIONS

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

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	1030	VALLEY GUTTER 72IN	SY	37
750	30	PIGMENTED IMPRINTED CONCRETE	SY	3
750	115	SIDEWALK CONCRETE 4 IN	SY	6
750	140	SIDEWALK CONCRETE 6 IN	SY	21
750	2115	DETECTABLE WARNING PANELS	SF	40



ADA RAMP LAYOUT
HIAWATHA ST & 15TH AVE SE
EAST SIDE

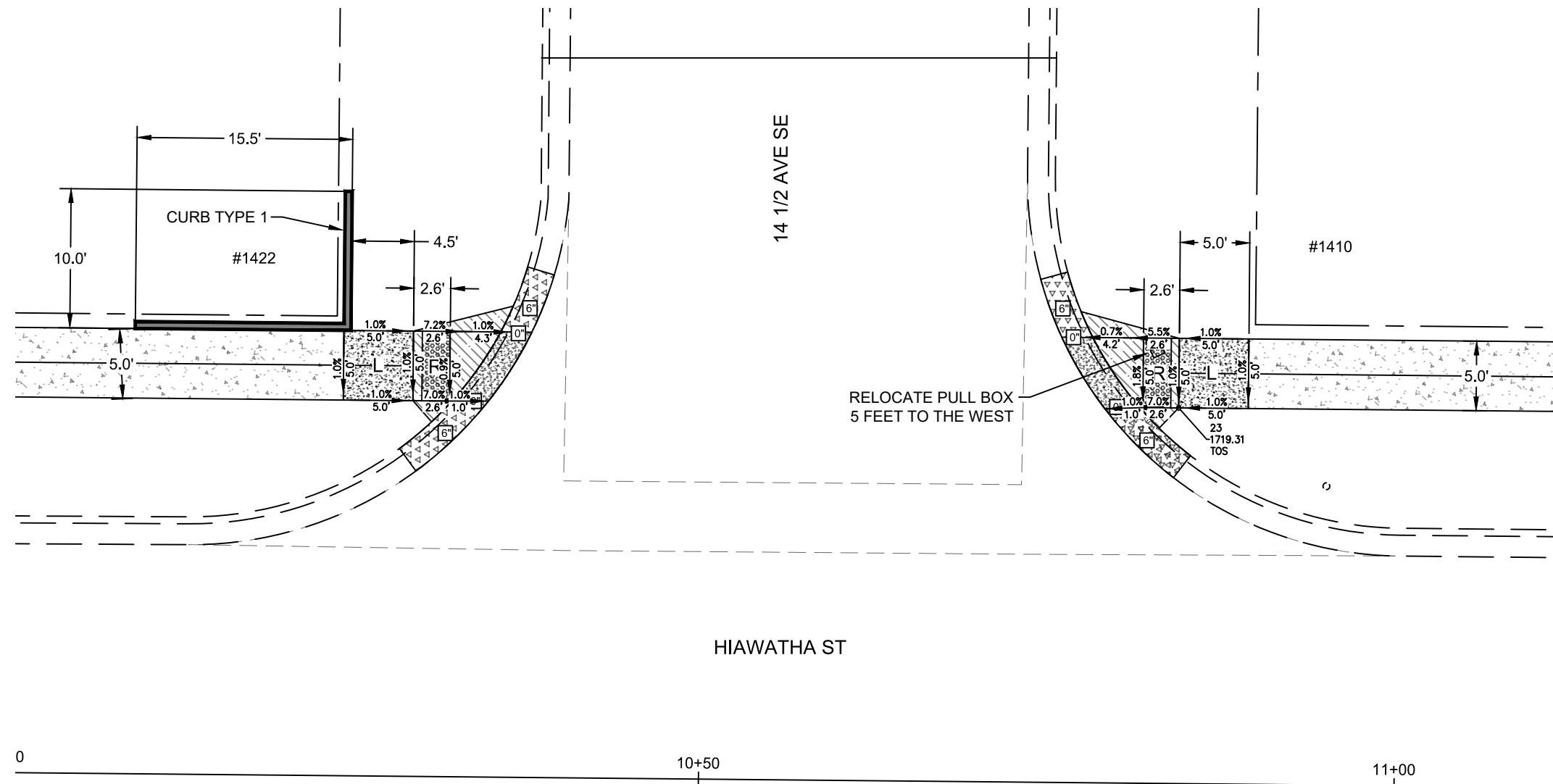
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	17
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	17

LEGEND

- | | |
|--|---|
| | CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED) |
| | CURB AND GUTTER - ADA KNOCK DOWN |
| | 6" CONCRETE VALLEY GUTTER (REINFORCED) |
| | CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL) |
| | 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED) |
| | 4" CONCRETE SIDEWALK (NON-REINFORCED) |
| | 6" CONCRETE SIDEWALK (NON-REINFORCED) |
| | DETECTABLE WARNING PANEL |
| | BACK OF CURB HEIGHT RELATIVE TO FLOW LINE |
| | PROVIDE A 1:10 MAXIMUM SLOPE FLARE |
| | WATER FLOW DIRECTION |
| | ADA RAMP WITH MAX SLOPE OF 1:12 |
| | TRANSITIONAL TIE-IN PANEL |
| | LOW SLOPE AREA
(2% MAX SLOPE IN ALL DIRECTIONS) |
| | MANHOLE |
| | FIRE HYDRANT |
| | GATE VALVE |
| | PROPERTY LINE |
| | FENCE |
| | EXISTING CURB AND GUTTER |
| | EXISTING VALLEY GUTTER |
| | CATCH BASIN |
| | UTILITY/SIGN |
-
-

ABBREVIATIONS

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



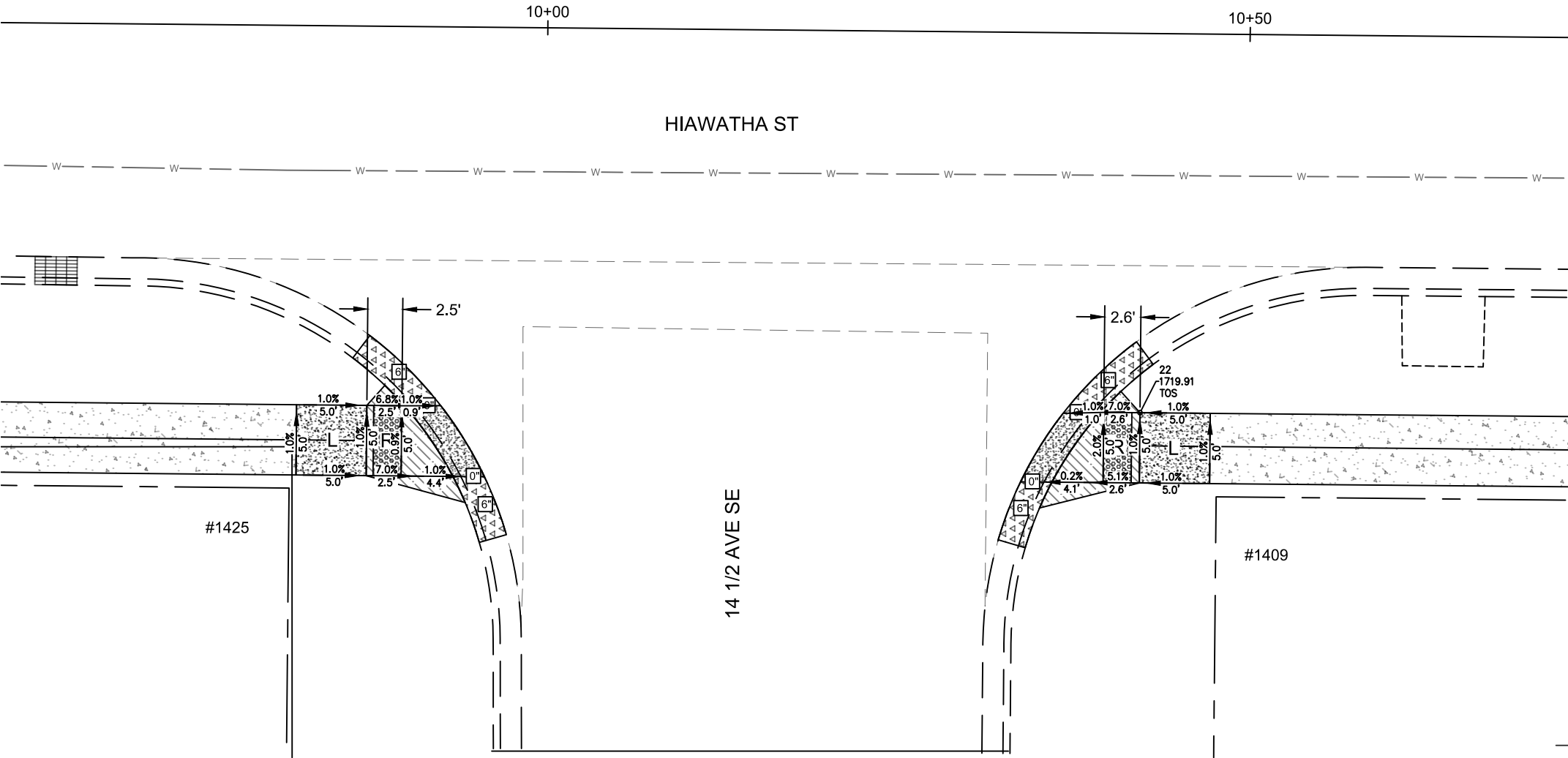
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	115	SIDEWALK CONCRETE 4 IN	SY	6
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	20

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
Jesse Hoffart
PE-29748
DATE 12/23/2022
NORTH DAKOTA

ADA RAMP LAYOUT
STA. 10+25
WEST SIDE

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg



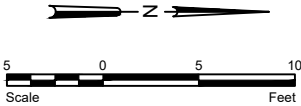
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	18
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	18

LEGEND

-
- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- 0"
-
- 1:10
-
- WATER FLOW DIRECTION
-
- R
-
- TP
-
- L
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE
-
- PROPERTY LINE
-
- FENCE
-
- EXISTING CURB AND GUTTER
-
- EXISTING VALLEY GUTTER
-
- CATCH BASIN
-
- UTILITY/SIGN

ABBREVIATIONS

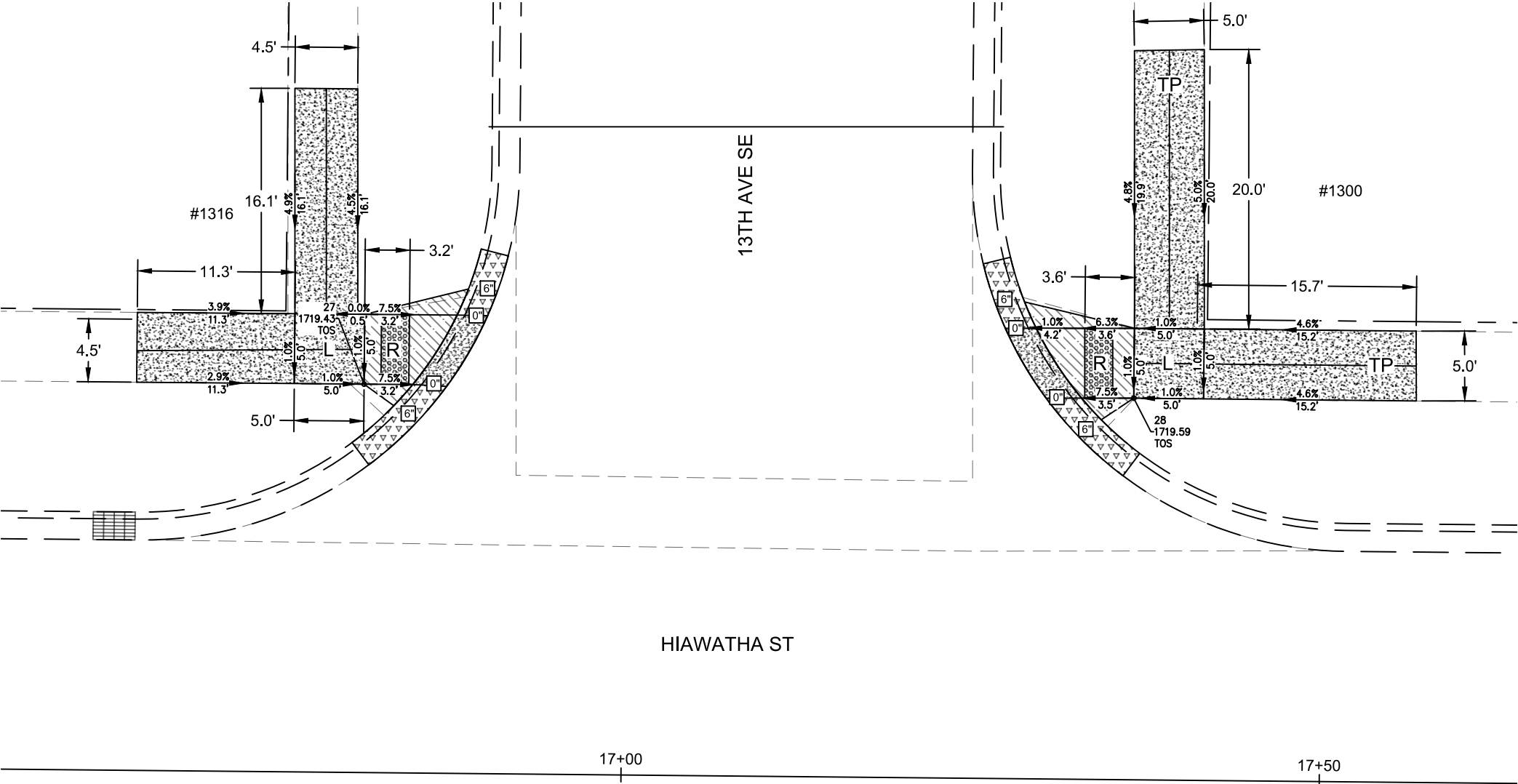
- TOS
- TOP OF SIDEWALK
- TBC
- TOP BACK OF CURB
- EX
- EXISTING
- FL
- FLOW LINE
- GT
- GUTTER TOE



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
748	100	CURB & GUTTER	LF	34
750	115	SIDEWALK CONCRETE 4 IN	SY	6
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	20

ADA RAMP LAYOUT
STA. 9+80
EAST SIDE

P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg 11/18/2022



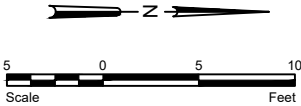
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	20
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	20

LEGEND

-
- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
-
- CURB AND GUTTER - ADA KNOCK DOWN
-
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
-
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
-
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
-
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
-
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
-
- DETECTABLE WARNING PANEL
-
- 0"
-
- 1:10
-
- WATER FLOW DIRECTION
-
- R
-
- TP
-
- L
-
- MANHOLE
-
- FIRE HYDRANT
-
- GATE VALVE
-
- PROPERTY LINE
-
- FENCE
-
- EXISTING CURB AND GUTTER
-
- EXISTING VALLEY GUTTER
-
- CATCH BASIN
-
- UTILITY/SIGN

ABBREVIATIONS

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

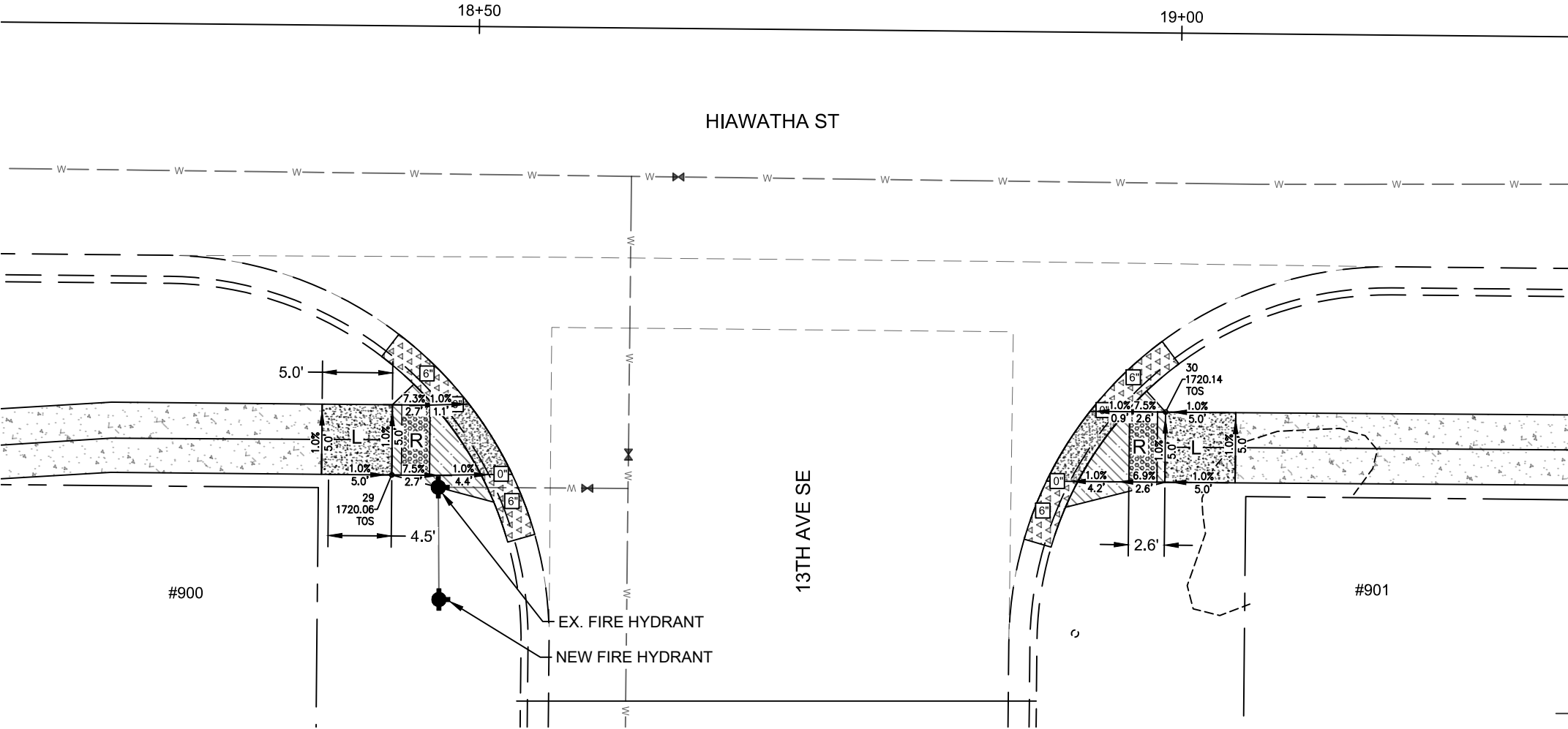


ADA RAMP LAYOUT
STA. 16+65
WEST SIDE

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	115	SIDEWALK CONCRETE 4 IN	SY	24
750	140	SIDEWALK CONCRETE 6 IN	SY	8
750	2115	DETECTABLE WARNING PANELS	SF	20

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11/18/2022

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	21
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	21

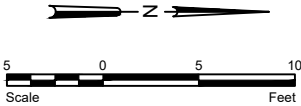


LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- R ADA RAMP WITH MAX SLOPE OF 1:12
- TP TRANSITIONAL TIE-IN PANEL
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- FENCE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- CATCH BASIN
- UTILITY/SIGN

ABBREVIATIONS

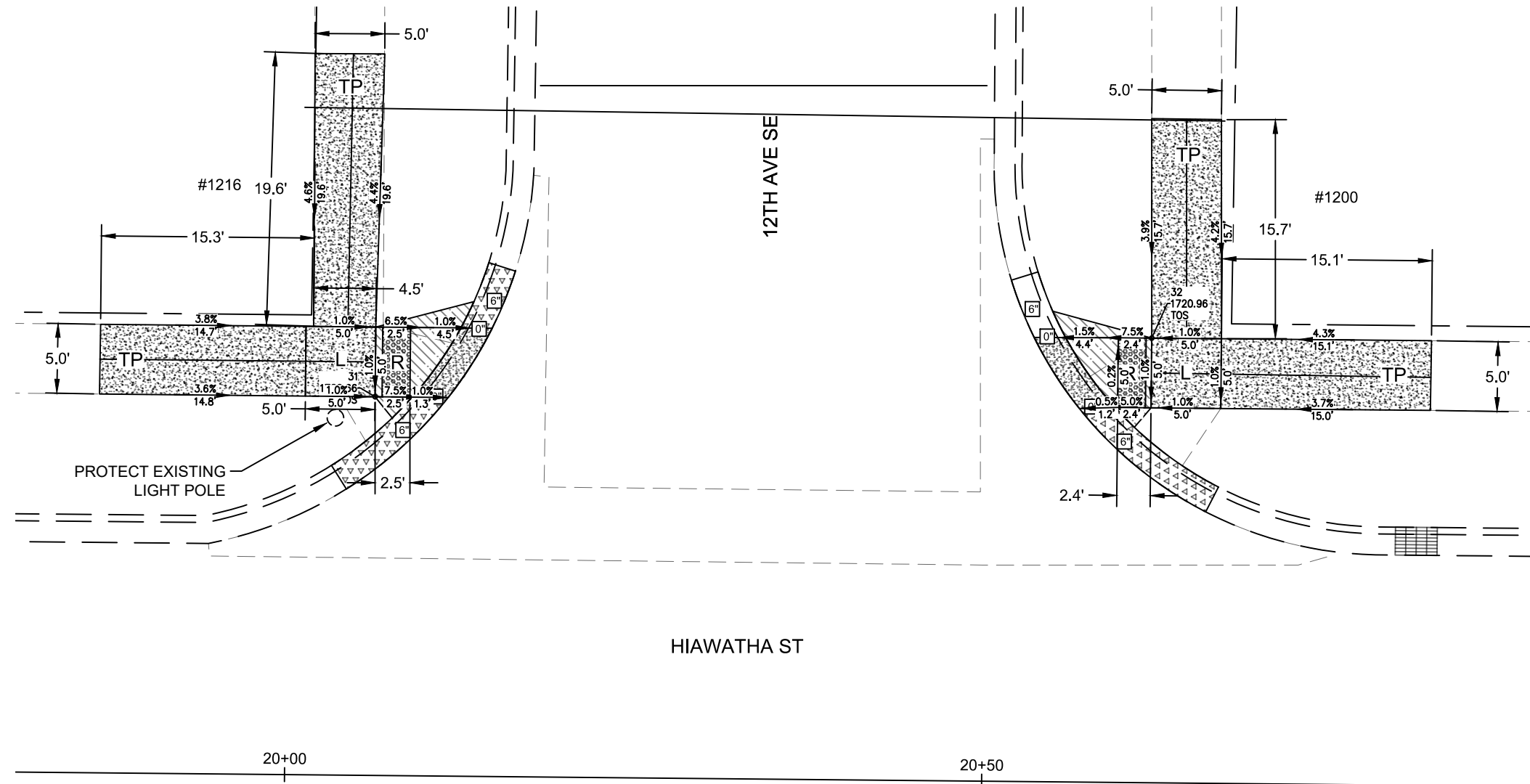
- TOS TOP OF SIDEWALK
- TBC TOP BACK OF CURB
- EX EXISTING
- FL FLOW LINE
- GT GUTTER TOE



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	115	SIDEWALK CONCRETE 4 IN	SY	6
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	20

ADA RAMP LAYOUT
13TH AVE SE
EAST SIDE

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	22
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	22



LEGEND

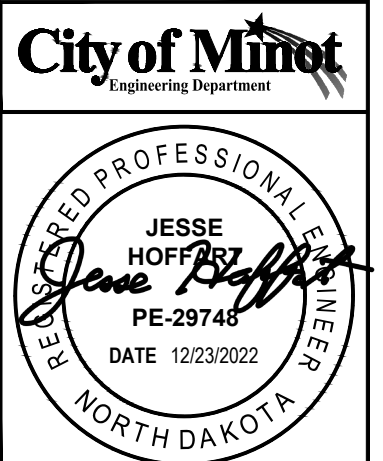
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|---|---|
|  | CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED) |
|  | CURB AND GUTTER - ADA KNOCK DOWN |
|  | 6" CONCRETE VALLEY GUTTER (REINFORCED) |
|  | CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL) |
|  | 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED) |
|  | 4" CONCRETE SIDEWALK (NON-REINFORCED) |
|  | 6" CONCRETE SIDEWALK (NON-REINFORCED) |
|  | DETECTABLE WARNING PANEL |
|  | BACK OF CURB HEIGHT RELATIVE TO FLOW LINE |
|  | PROVIDE A 1:10 MAXIMUM SLOPE FLARE |
|  | WATER FLOW DIRECTION |
|  | ADA RAMP WITH MAX SLOPE OF 1:12 |
|  | TRANSITIONAL TIE-IN PANEL |
|  | LOW SLOPE AREA
(2% MAX SLOPE IN ALL DIRECTIONS) |
|  | MANHOLE |
|  | FIRE HYDRANT |
|  | GATE VALVE |
|  | PROPERTY LINE |
|  | FENCE |
|  | EXISTING CURB AND GUTTER |
|  | EXISTING VALLEY GUTTER |
|  | CATCH BASIN |
|  | UTILITY/SIGN |
- 5 0 5 10
Scale Feet

City of Mine
Engineering Department

ABBREVIATIONS

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

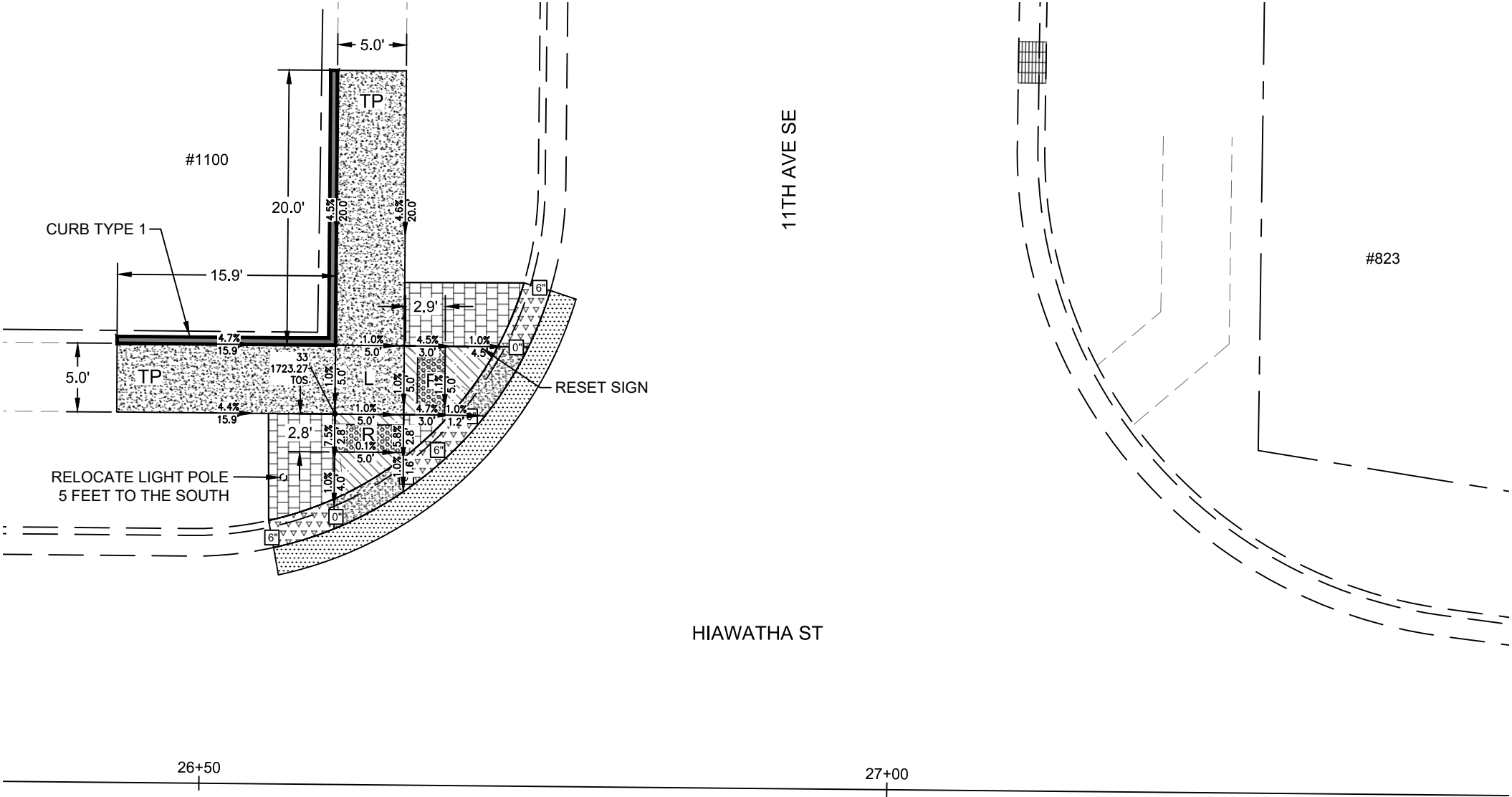
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	115	SIDEWALK CONCRETE 4 IN	SY	40
750	140	SIDEWALK CONCRETE 6 IN	SY	7
750	2115	DETECTABLE WARNING PANELS	SF	20



ADA RAMP LAYOUT
STA. 19+85
WEST SIDE

P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg 11/18/2022

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	23
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	23



LEGEND

- CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW, OR MOUNTABLE (AS NOTED)
- CURB AND GUTTER - ADA KNOCK DOWN
- 6" CONCRETE VALLEY GUTTER (REINFORCED)
- CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL)
- 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED)
- 4" CONCRETE SIDEWALK (NON-REINFORCED)
- 6" CONCRETE SIDEWALK (NON-REINFORCED)
- DETECTABLE WARNING PANEL
- 0" BACK OF CURB HEIGHT RELATIVE TO FLOW LINE
- 1:10 PROVIDE A 1:10 MAXIMUM SLOPE FLARE
- WATER FLOW DIRECTION
- R ADA RAMP WITH MAX SLOPE OF 1:12
- TP TRANSITIONAL TIE-IN PANEL
- L LOW SLOPE AREA (2% MAX SLOPE IN ALL DIRECTIONS)
- MANHOLE
- FIRE HYDRANT
- GATE VALVE
- PROPERTY LINE
- FENCE
- EXISTING CURB AND GUTTER
- EXISTING VALLEY GUTTER
- CATCH BASIN
- UTILITY/SIGN

ABBREVIATIONS

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

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	8
750	115	SIDEWALK CONCRETE 4 IN	SY	23
750	140	SIDEWALK CONCRETE 6 IN	SY	6
750	2115	DETECTABLE WARNING PANELS	SF	20
754	593	RESET SIGN SUPPORT	EA	1

City of Minot
Engineering Department

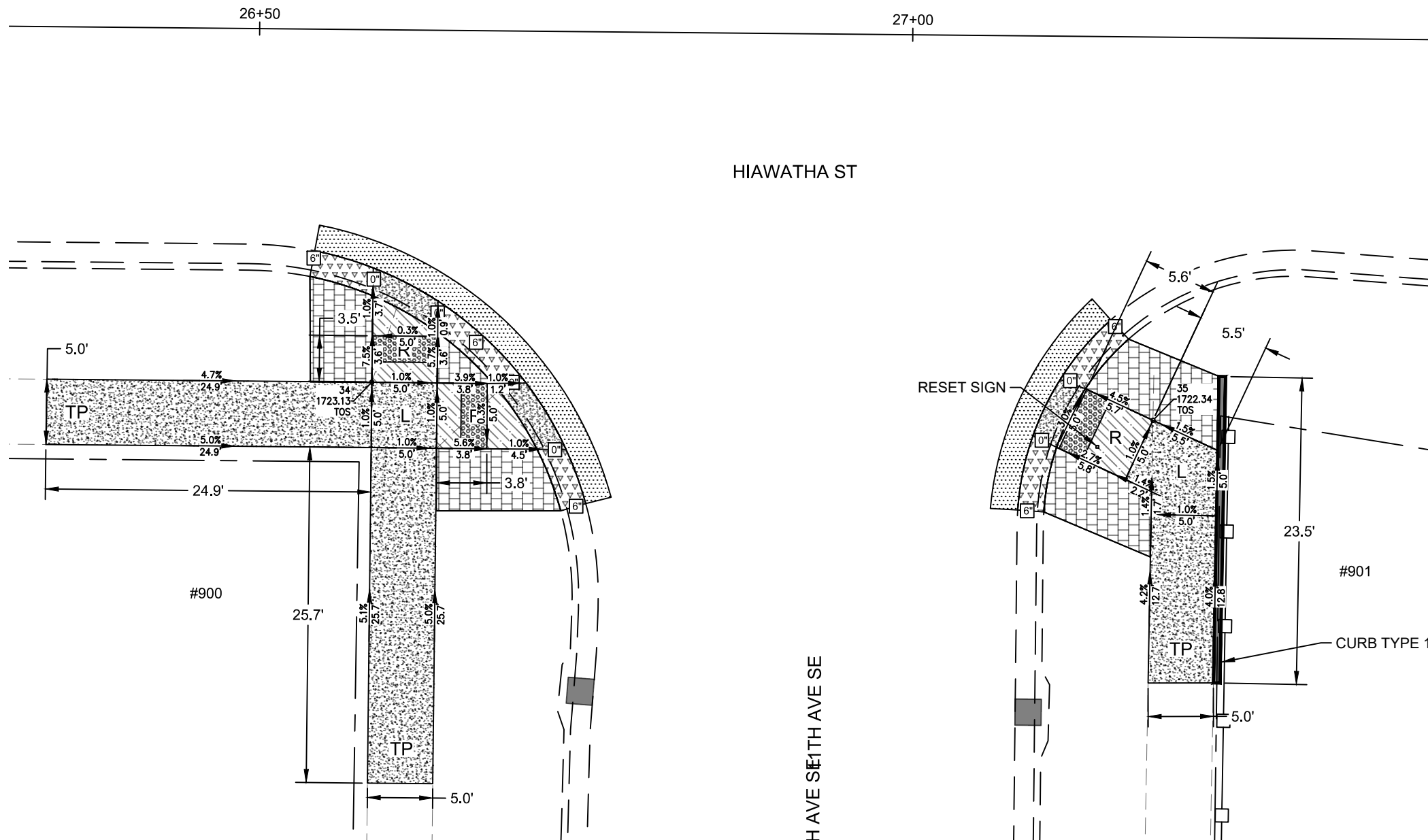
REGISTERED PROFESSIONAL ENGINEER

JESSE HOPKART
PE-29748
DATE 12/23/2022

NORTH DAKOTA

ADA RAMP LAYOUT
HIAWATHA ST & 11TH AVE SE
WEST SIDE

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	80	24
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	80	24



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
750	30	PIGMENTED IMPRINTED CONCRETE	SY	18
750	115	SIDEWALK CONCRETE 4 IN	SY	42
750	140	SIDEWALK CONCRETE 6 IN	SY	10
750	2115	DETECTABLE WARNING PANELS	SF	30
754	593	RESET SIGN SUPPORT	EA	1

LEGEND

- | | |
|---|--|
|  | CURB AND GUTTER - TYPE 1A, TYPE 1B OUTFLOW,
OR MOUNTABLE (AS NOTED) |
|  | CURB AND GUTTER - ADA KNOCK DOWN |
|  | 6" CONCRETE VALLEY GUTTER (REINFORCED) |
|  | CURB - TYPE 1 OR RETAINING WALL (SEE DETAIL) |
|  | 6" PIGMENTED IMPRINTED CONCRETE (NON-REINFORCED) |
|  | 4" CONCRETE SIDEWALK (NON-REINFORCED) |
|  | 6" CONCRETE SIDEWALK (NON-REINFORCED) |
|  | DETECTABLE WARNING PANEL |
|  | BACK OF CURB HEIGHT RELATIVE TO FLOW LINE |
|  | PROVIDE A 1:10 MAXIMUM SLOPE FLARE |
|  | WATER FLOW DIRECTION |
|  | ADA RAMP WITH MAX SLOPE OF 1:12 |
|  | TRANSITIONAL TIE-IN PANEL |
|  | LOW SLOPE AREA
(2% MAX SLOPE IN ALL DIRECTIONS) |
|  | MANHOLE |
|  | FIRE HYDRANT |
|  | GATE VALVE |
|  | PROPERTY LINE |
|  | FENCE |
|  | EXISTING CURB AND GUTTER |
|  | EXISTING VALLEY GUTTER |
|  | CATCH BASIN |
|  | UTILITY/SIGN |
-
- 5 0 5 10
Scale Feet
- City of Mine**
Engineering Department

PROFESSIONAL

ABBREVIATIONS

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

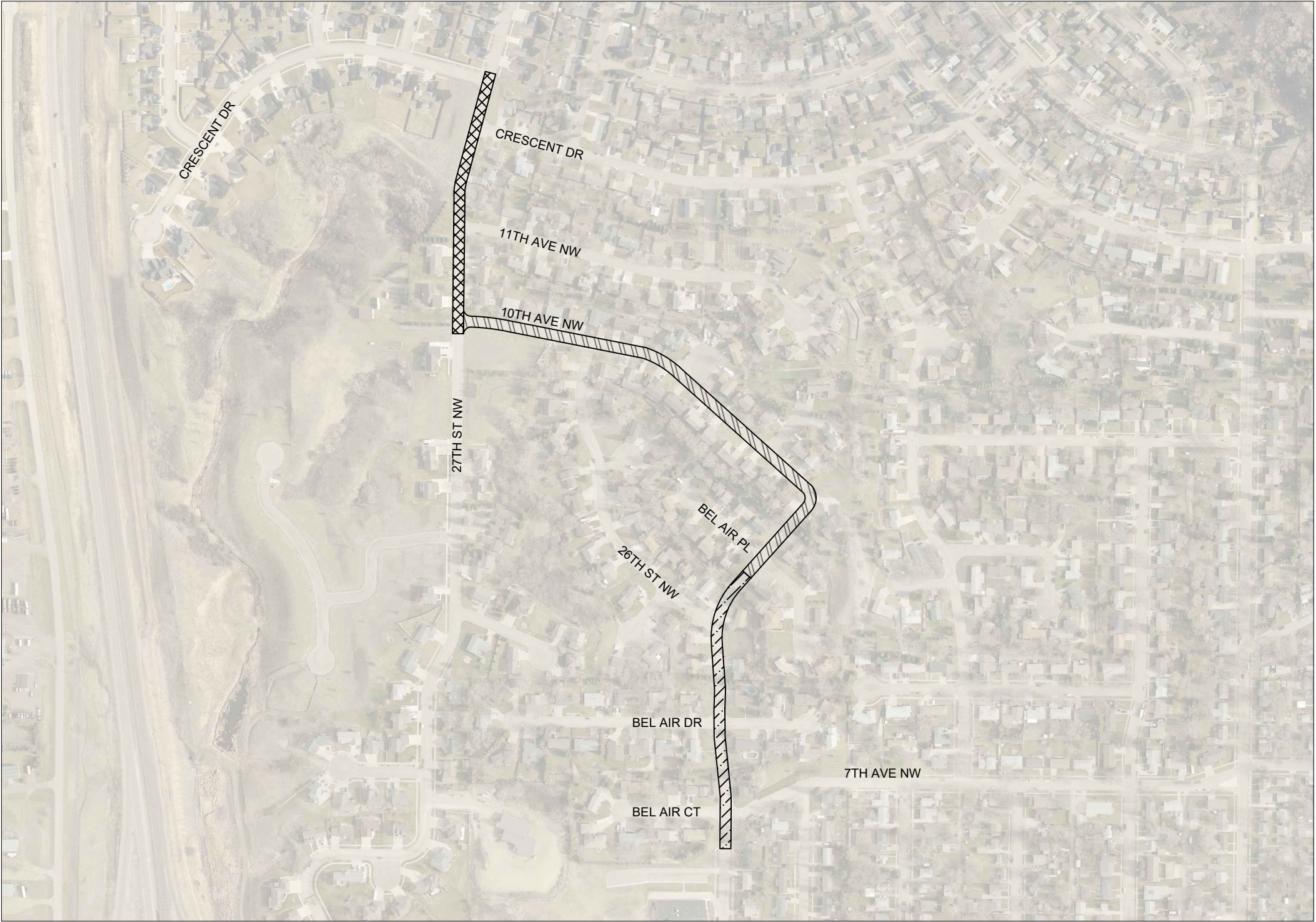
ADA RAMP LAYOUT
HIAWATHA ST & 11TH AVE SE
EAST SIDE

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

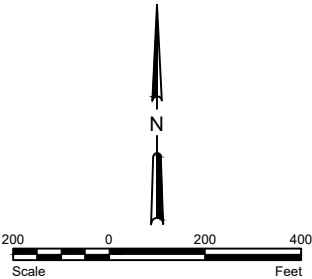
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	1

LEGEND

-  BEL AIR SRTS PHASE 1
-  BEL AIR SRTS PHASE 2
-  BEL AIR SRTS PHASE 3



NOTE: SIGNS SHOWN ON THIS SHEET SHALL BE IN PLACE FOR ALL PHASES OF TRAFFIC CONTROL.

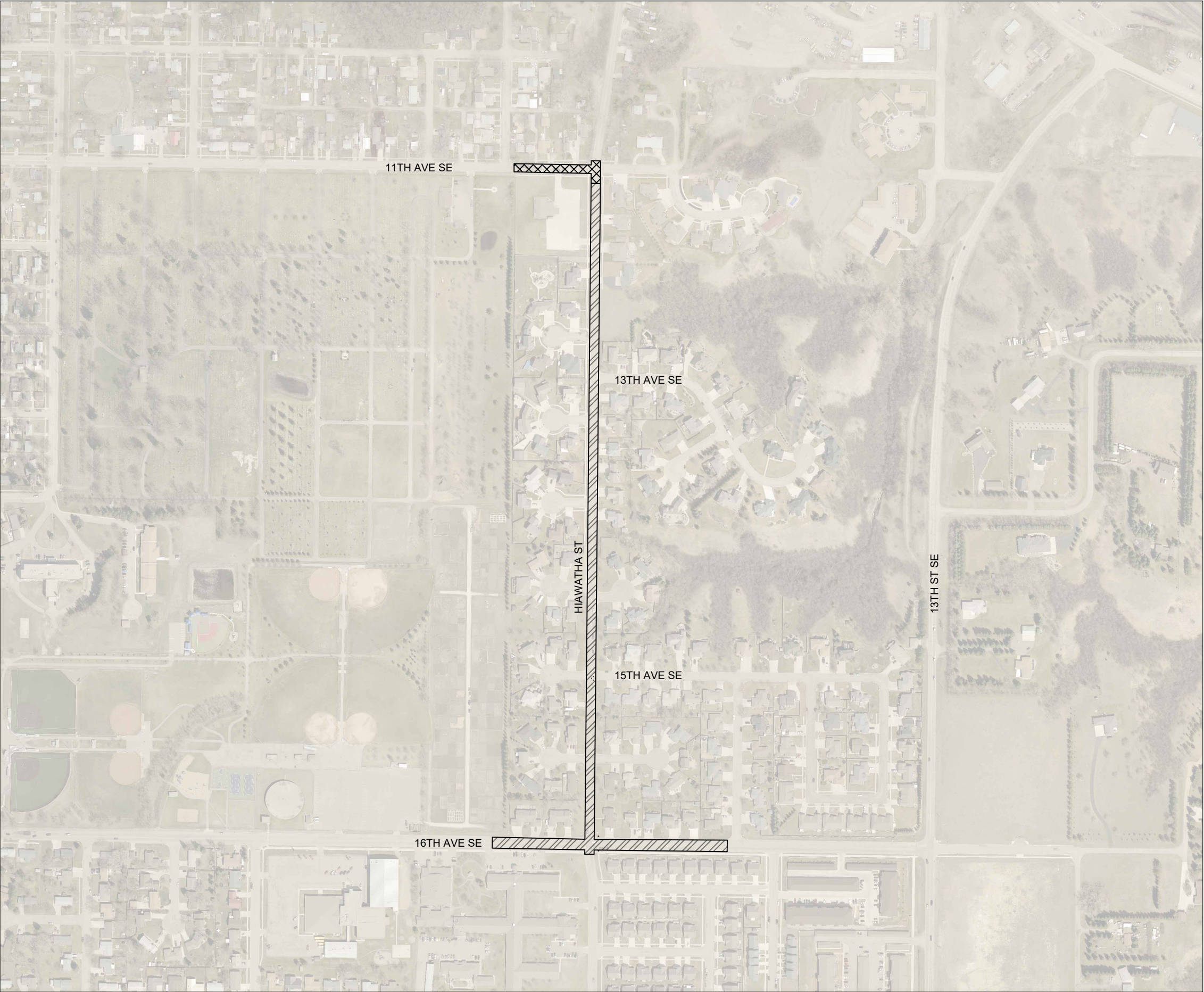


City of Minot
Engineering Department



BEL AIR TC OVERVIEW
BEL AIR SRTS
PHASE OVERVIEW

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg



NOTE: SIGNS SHOWN ON THIS SHEET SHALL BE IN PLACE FOR BOTH PHASES OF TRAFFIC CONTROL.

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	2

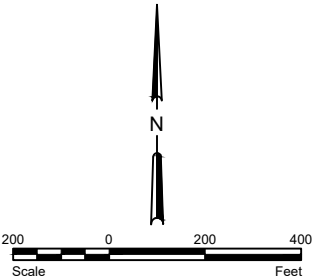
LEGEND



WASHINGTON SRTS PHASE 1



WASHINGTON SRTS PHASE 2



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
JESSE HOPART
PE-29748
DATE 12/23/2022
NORTH DAKOTA

WASHINGTON TC OVERVIEW
WASHINGTON SRTS
PHASE OVERVIEW

STATE

ND

TAU-4-989(126)

STATE

PROJECT NO.

PCN NO.

23244

SECTION NO.

100

SHEET NO.

3

STATE

ND

TAU-4-989(127)

STATE

PROJECT NO.

PCN NO.

23245

SECTION NO.

100

SHEET NO.

3

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED				TOTAL AMOUNT REQUIRED D	UNITS PER AMOUNT	UNITS SUB TOTAL
			BY PHASE NO.						
			1	2	3				
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	1				1	32	32
R1-2-60	60"x60"	YIELD		1			1	29	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	
R9-9	24"x12"	SIDEWALK CLOSED - MOUNTED ON TYPE 2 BARRICADE	5	1	4		5	3	15
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)	5	5	5		5	15	75
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	9	3	3		9	35	315
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	4	1	3		4	35	140
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	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED				TOTAL AMOUNT REQUIRED D	UNITS PER AMOUNT	UNITS SUB TOTAL
			BY PHASE NO.						
			1	2	3				
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED						35	
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or _____ FT or _____ MILE						35	
W21-6-48	48"x48"	SURVEY CREW						35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or _____ FT						35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY						35	
W21-52-48	48"x48"	PAVEMENT BREAKS						35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD						35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK						35	
	</								

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

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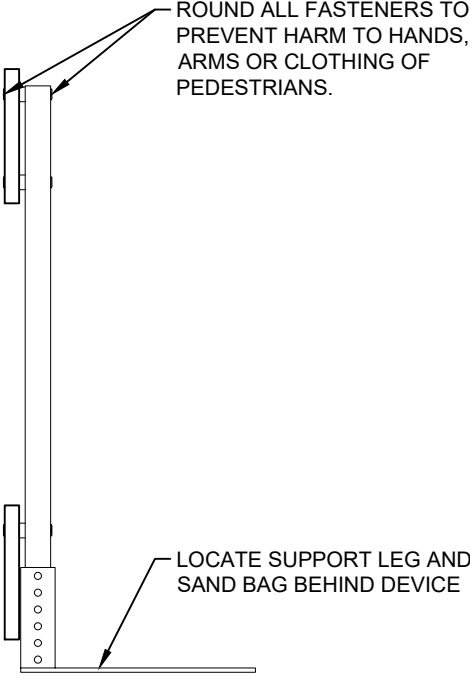
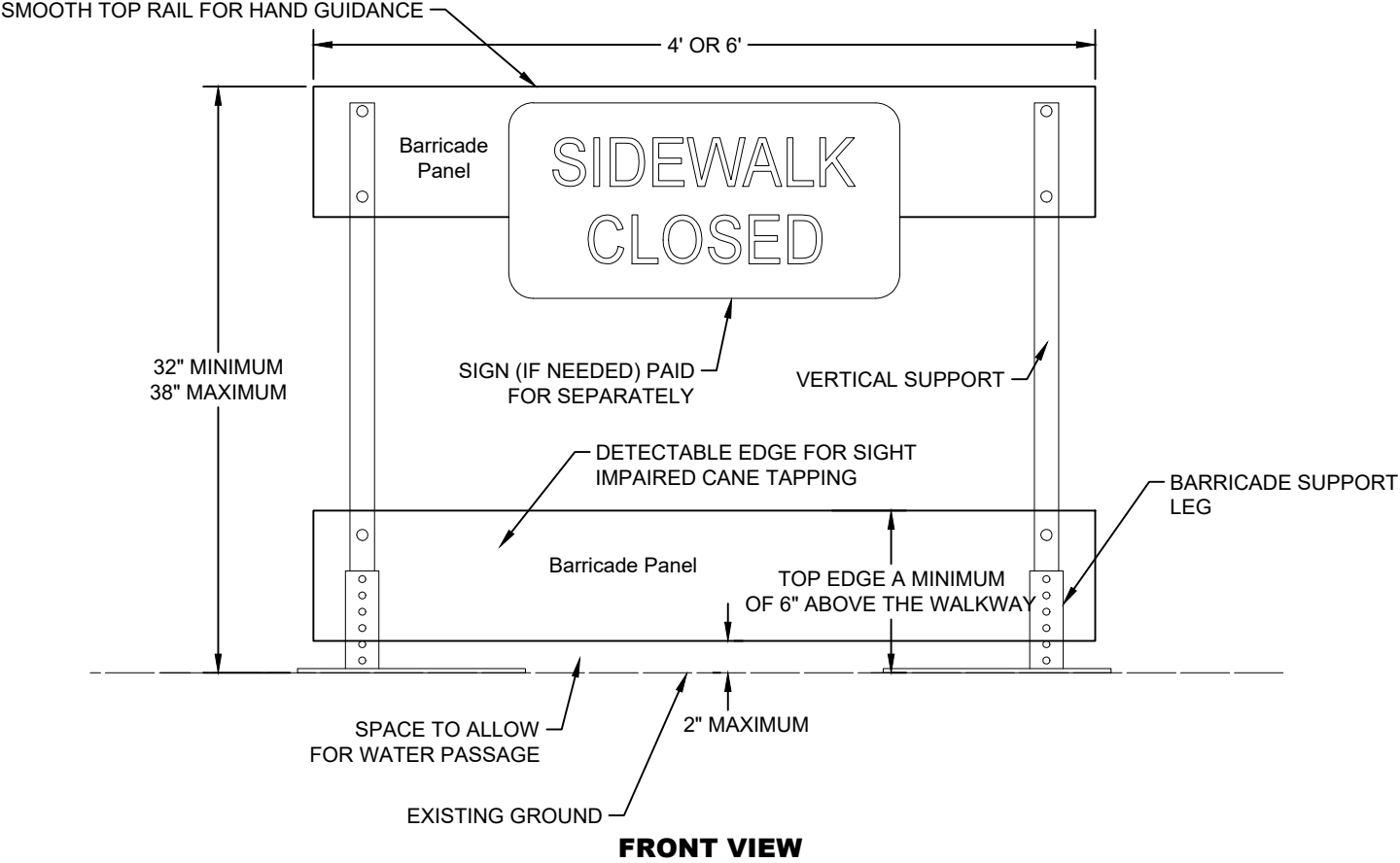
SPEC & CODE			
704-1000	TRAFFIC CONTROL SIGNS	TOTAL UNITS	577

City of Minot
Engineering Department

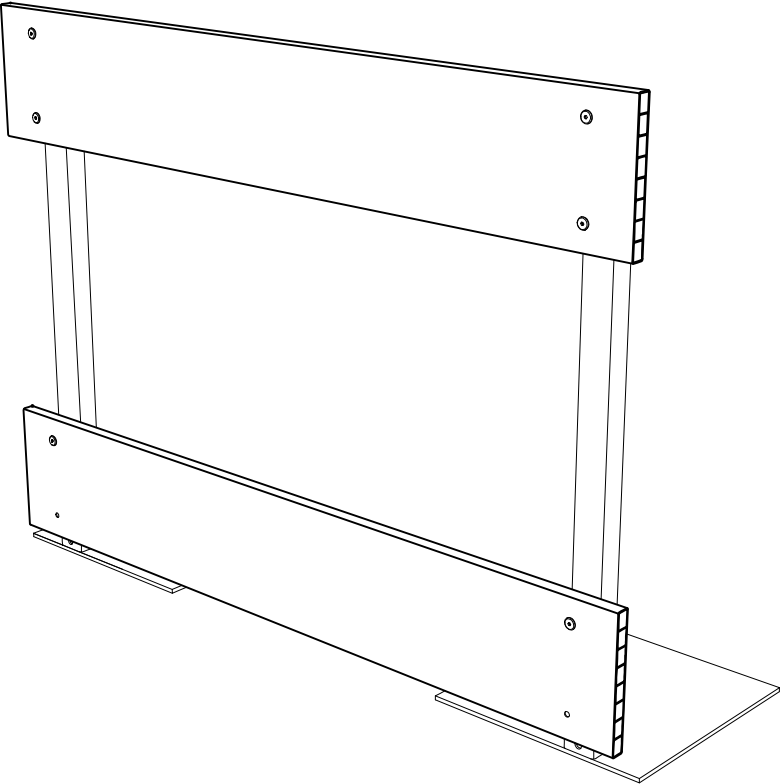
REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFART
PE-29746
DATE 1/3/2023
NORTH DAKOTA

DEVICES LIST
WASHINGTON SRTS

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg



END VIEW



PERSPECTIVE VIEW

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	5
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	5

SIDEWALK BARRICADES

1. PROVIDE SELF STANDING SIDEWALK BARRICADE WITH NO SUPPORTS EXTENDING INTO THE PEDESTRIANS PATH.
2. USE ORANGE OR ORANGE AND WHITE DIAGONAL STRIPED BARRICADE PANELS CONTRASTING WITH THE WALKWAY SURFACE.
3. PROVIDE ADA COMPLIANT AND NCHRP 350 OR MASH TEST LEVEL 3 (TL3) APPROVED SIDEWALK BARRICADES.
4. INCLUDES ALL COSTS TO FURNISH, MAINTAIN AND REMOVE SIDEWALK BARRICADES IN THE PRICE BID FOR "SIDEWALK BARRICADE."
5. ADA COMPLIANT ORANGE OR WHITE HIGH DENSITY UV STABILIZED POLYETHYLENE INTERLOCKING WALL PANELS ARE AN ACCEPTABLE ALTERNATIVE TO TRADITIONAL BARRICADES.

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
PE-29748

DATE 12/23/2022

NORTH DAKOTA

DEVICES DETAILS

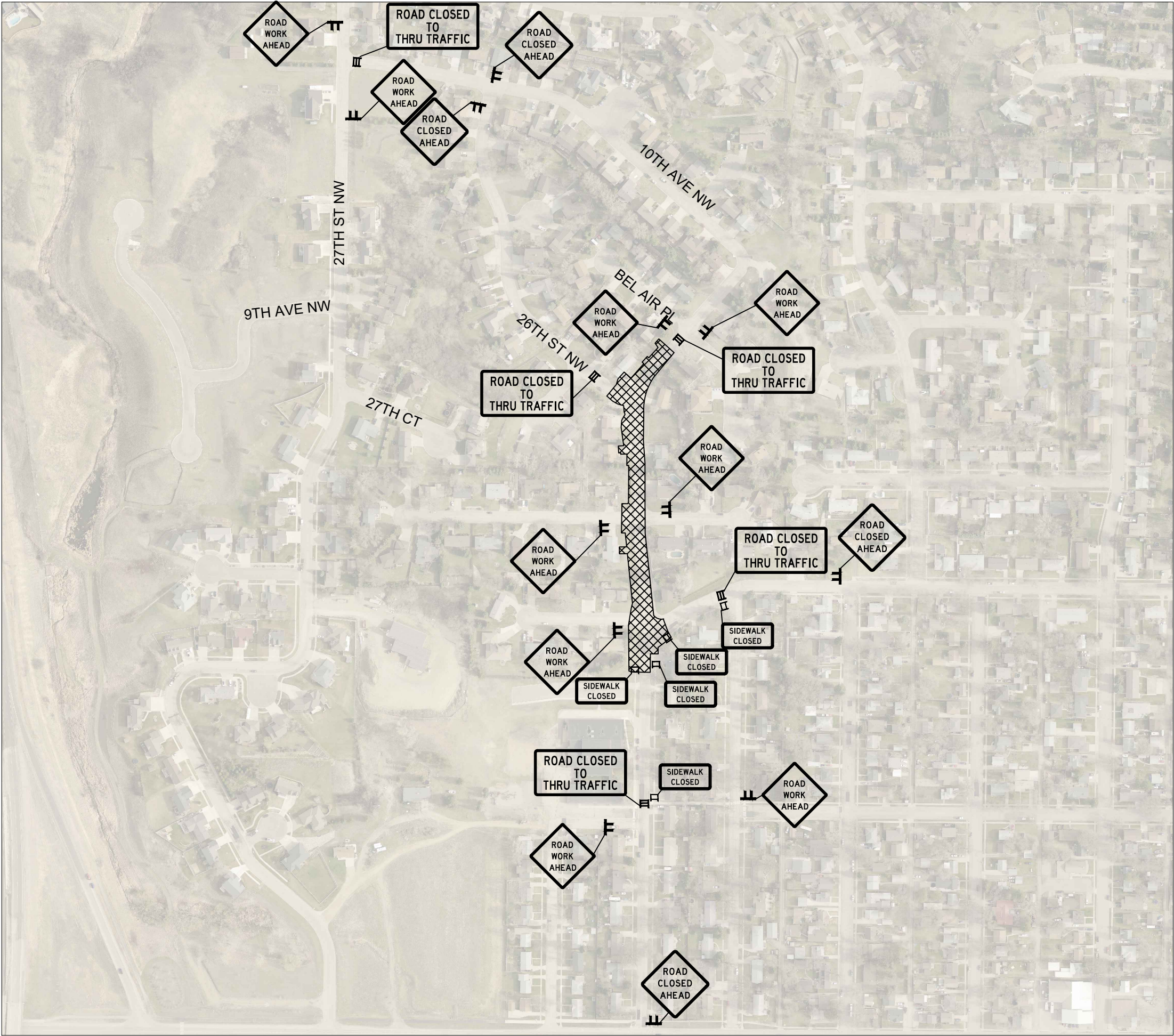
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	6
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	6

 R9-9 24"X12"	 R3-17aP 24"X8"	 R11-2 48"X30"	 R11-4 60"X30"	 W1-6R 48"X24"
 W5-1 36"X36"	 W11-2 30"X30"	 W16-7PL 24"X12"	 W16-7PR 24"X12"	 W20-1 36"X36"
 W20-3 36"X36"	 DELINEATOR DRUM	 PORTABLE MOUNT SYMBOL	 TYPE 3 BARRICADE SYMBOL	 TUBULAR MARKER (28" MIN)
 SIDEWALK BARRICADE SYMBOL				

City of Minot
Engineering Department



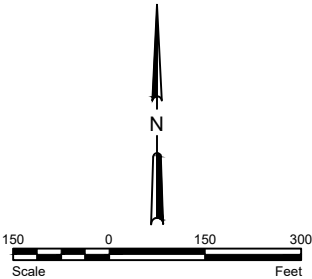
PLAN LEGEND



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	7
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	7

LEGEND

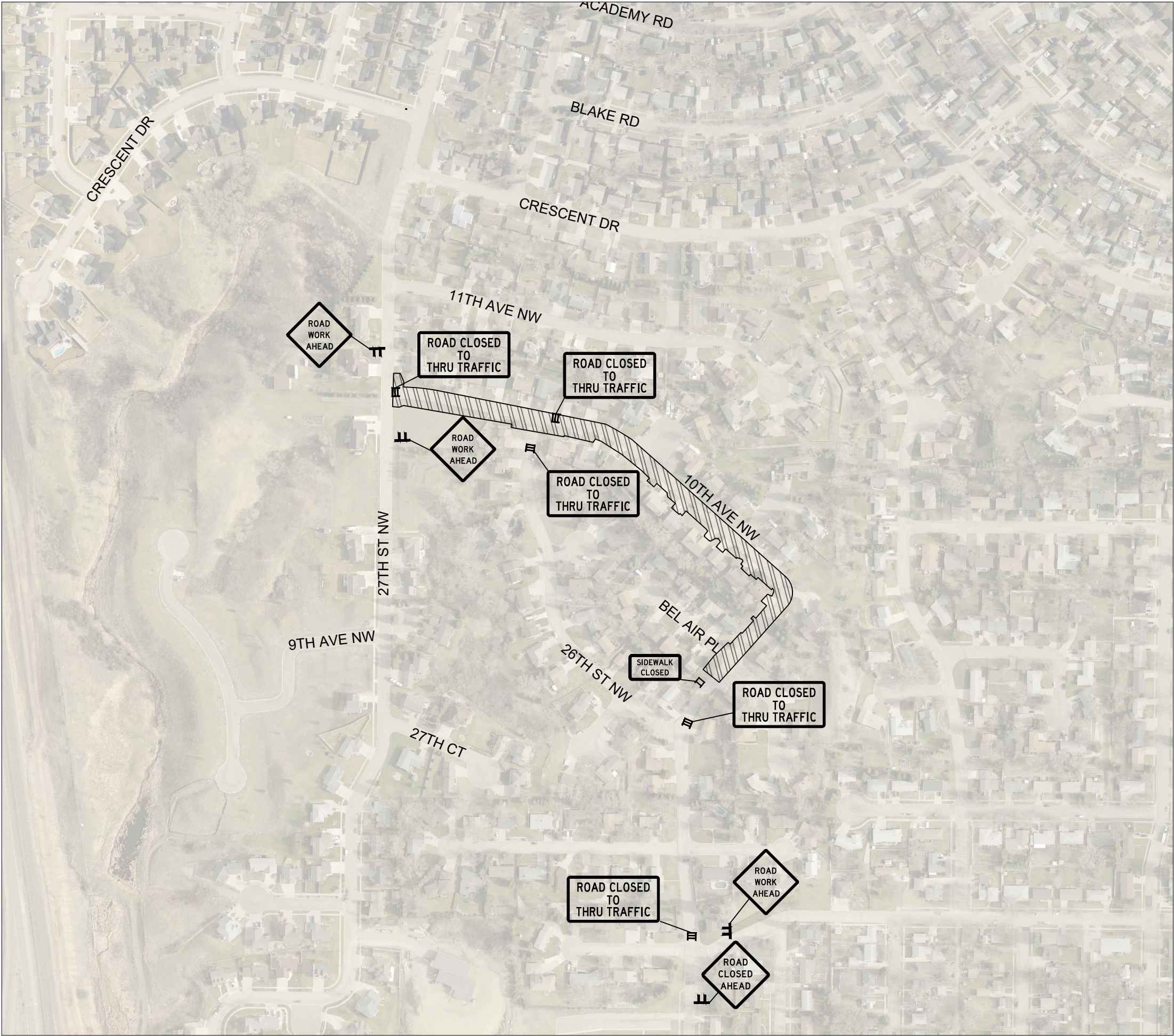
 BEL AIR SRTS PHASE 1 WORK ZONE



City of Minot
Engineering Department

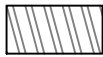


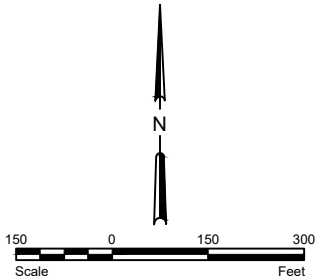
BEL AIR SRTS TC PHASE 1



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	8
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	8

LEGEND

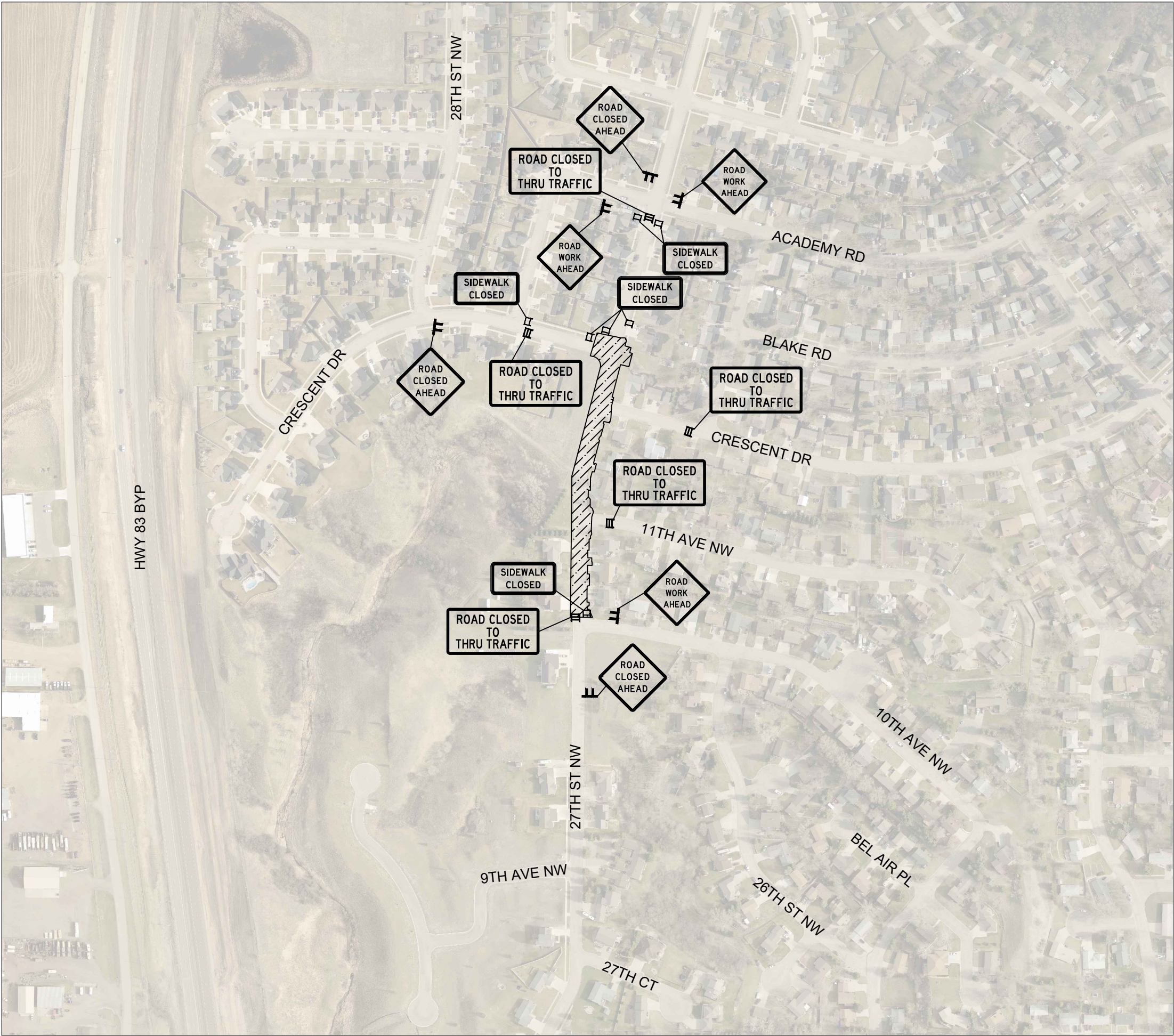
 BEL AIR SRTS PHASE 2 WORK ZONE



City of Minot
Engineering Department



BEL AIR SRTS TC PHASE 2

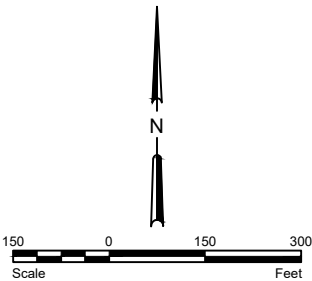


STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	9
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	9

LEGEND



BEL AIR SRTS PHASE 3 WORK ZONE

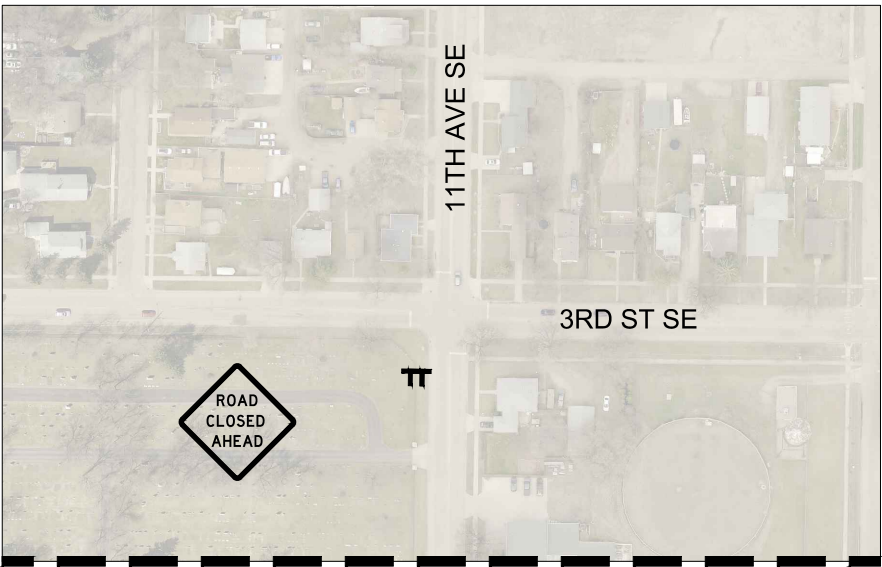
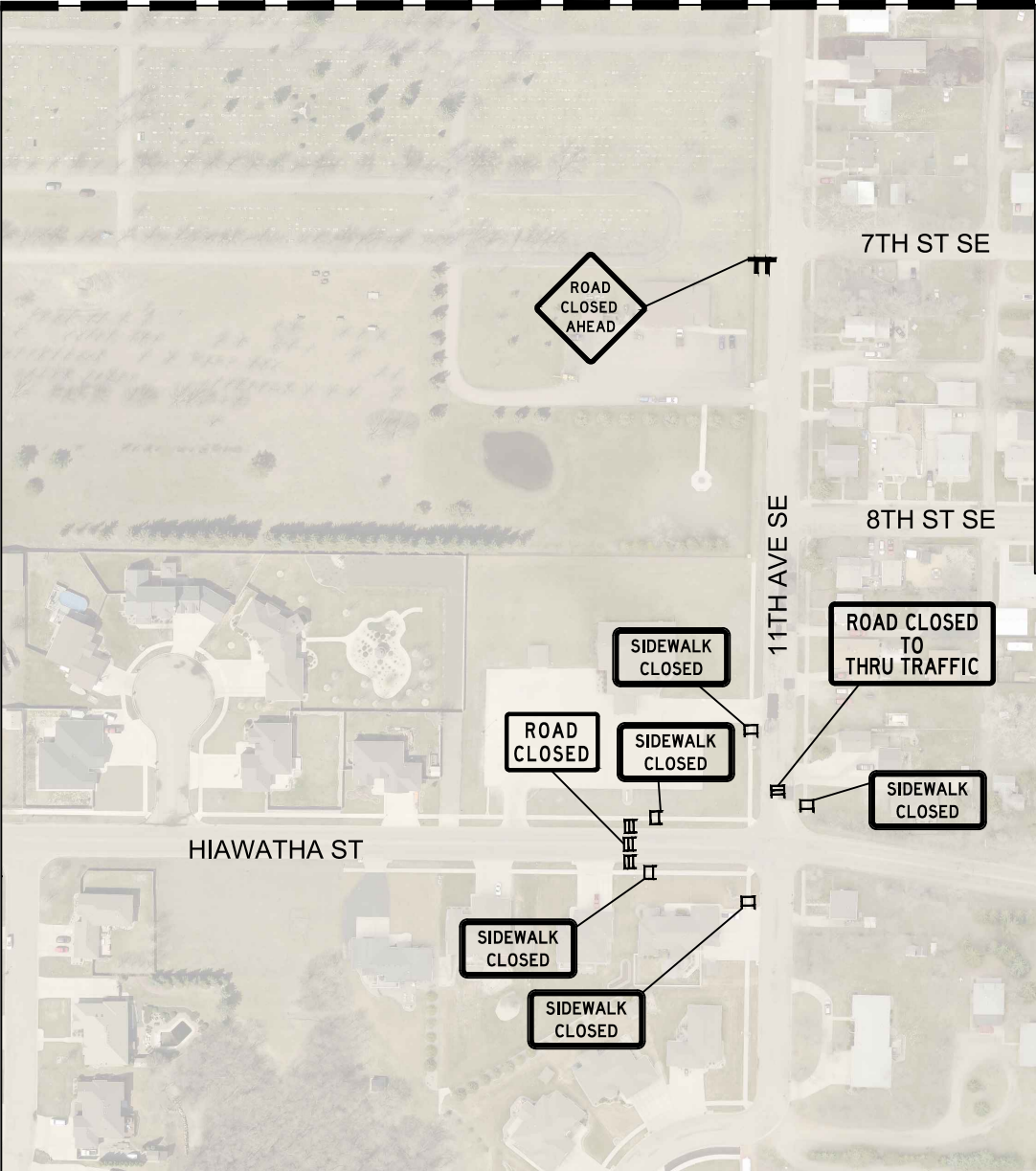


City of Minot
Engineering Department

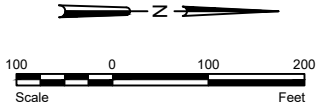
JESSE
HOPPART
PE-29748
DATE 12/23/2022

BEL AIR SRTS TC PHASE 3

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	10
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	10



City of Minot
Engineering Department

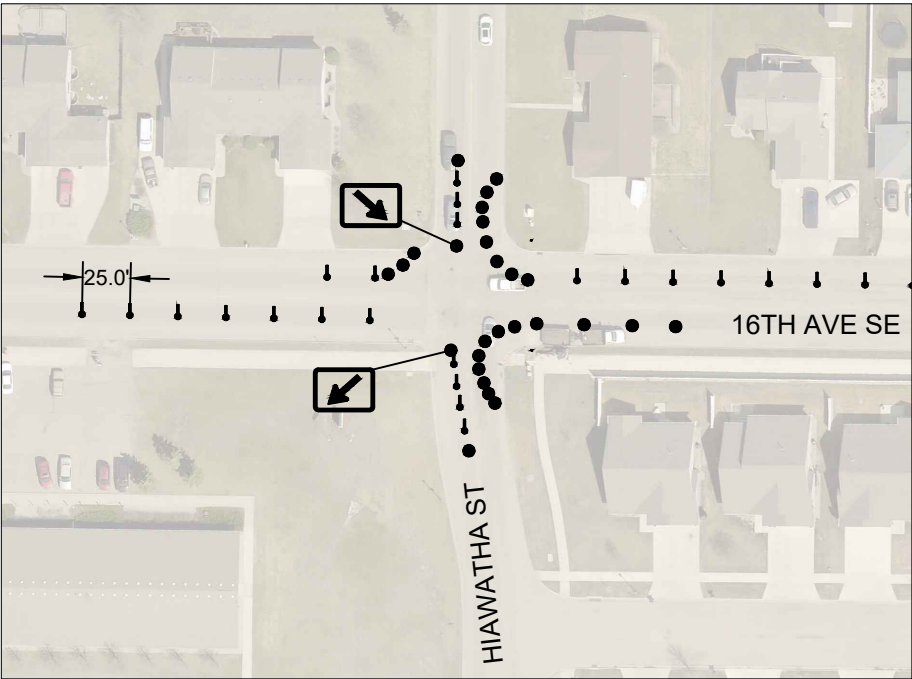
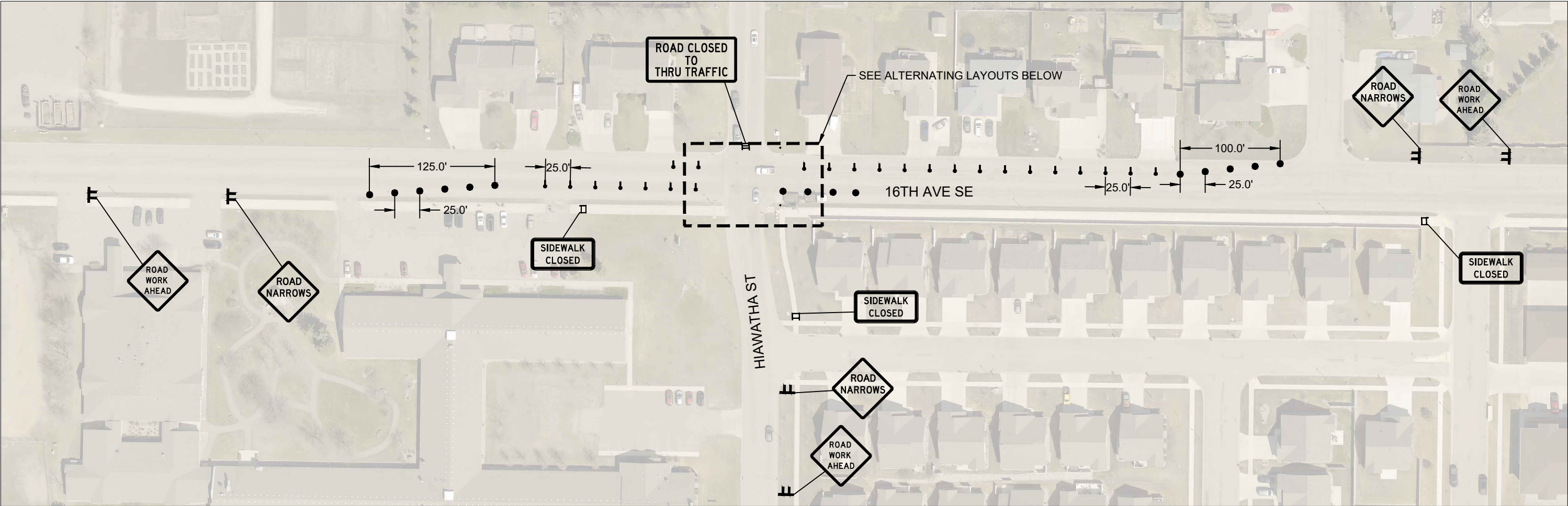
REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
PE-29746
DATE 12/23/2022

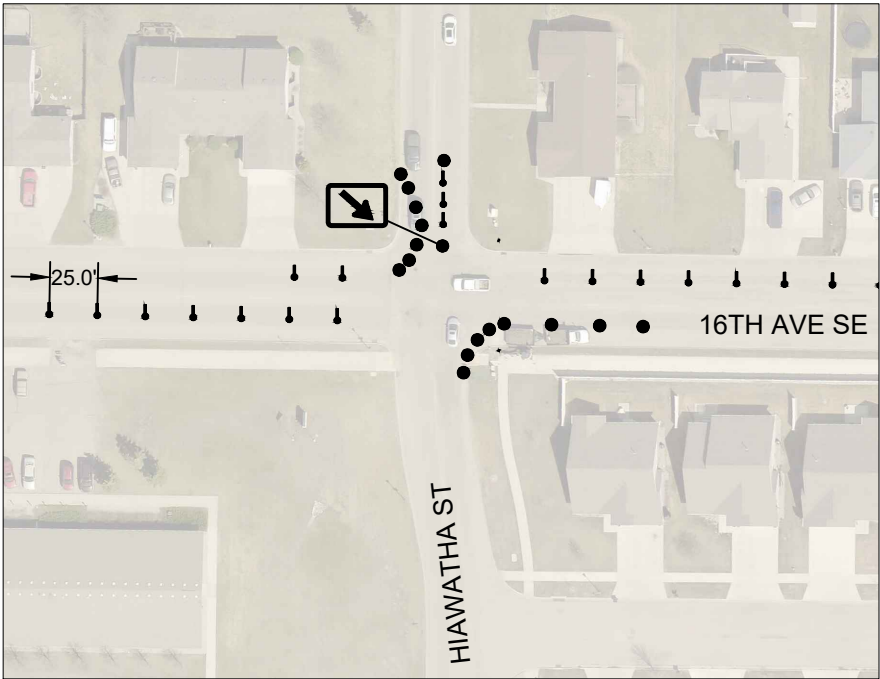
NORTH DAKOTA

WASHINGTON SRTS TC PHASE 1
11TH AVE SE & HIAWATHA ST

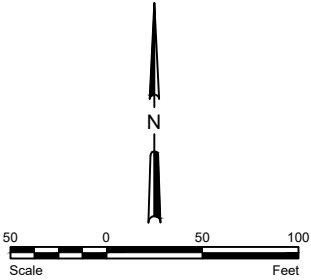
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	11
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	11



LAYOUT FOR WORK ON NE AND SE CORNERS



LAYOUT FOR WORK ON NW CORNER



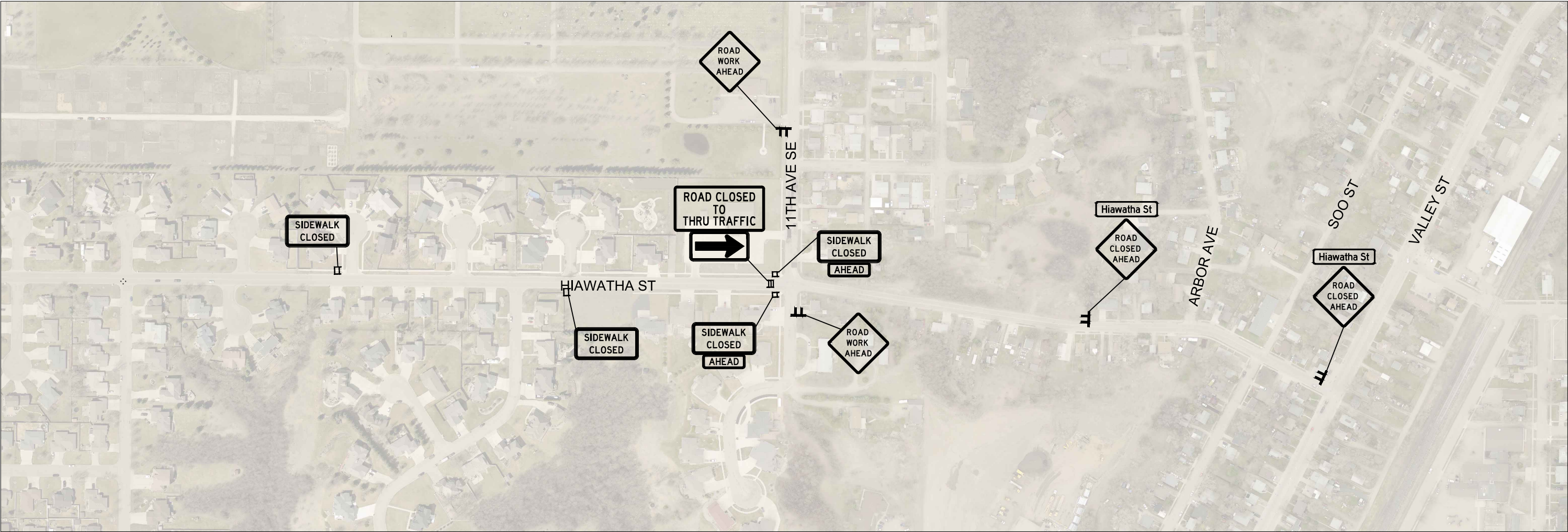
City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER
JESSE HOFFART
PE-29748
DATE 12/23/2022
NORTH DAKOTA

WASHINGTON SRTS TC PHASE 2
11TH AVE SE & HIAWATHA ST

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	12
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	12



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
PE-29748
DATE 12/23/2022

NORTH DAKOTA

WASHINGTON SRTS TC PHASE 2

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	13
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	13

SIGN NUMBER	Sign 1
WIDTH x HEIGHT	3'-8" x 0'-9"
BORDER WIDTH	0.63" (inset 0.47")
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: XI Reflective COLOR: Orange
LEGEND/BORDER	TYPE: XI Reflective COLOR: Black

SYMBOL	X	Y	WID	HT	ANGLE

AREA: 2.737 Sq.Ft.

Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

PANEL STYLE:

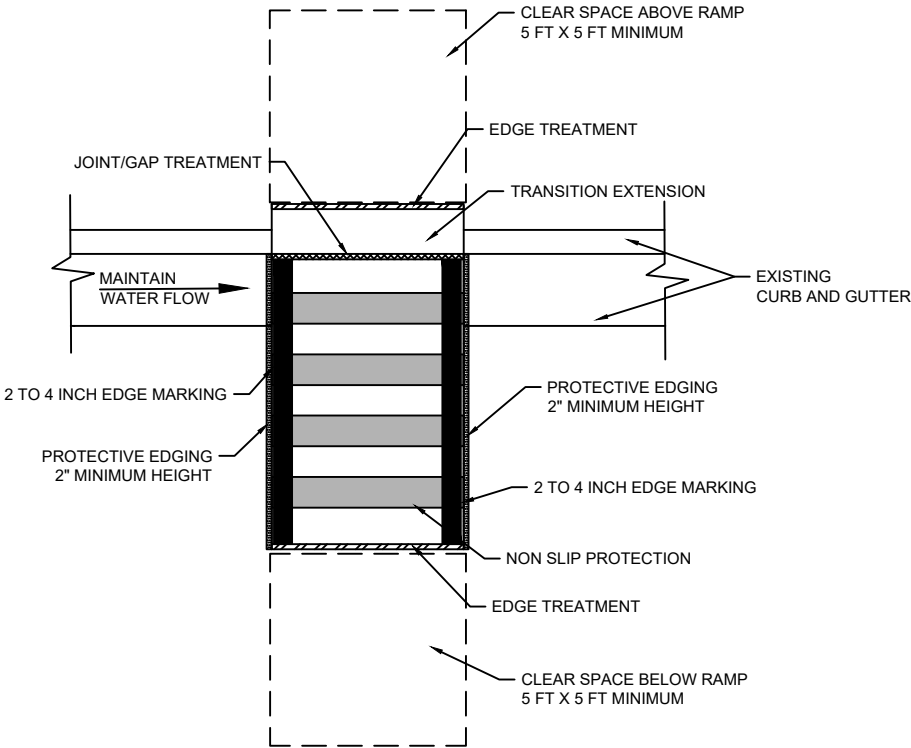
LETTER POSITION (X)																		LENGTH	SIZE	SERIES
H	I	A	W	A	T	H	A		S	T								35.3	4	D 2000
4.36	7.87	9.14	12.75	16.54	20.33	23.41	26.54	29.92	33.92	37.15										

City of Minot
Engineering Department

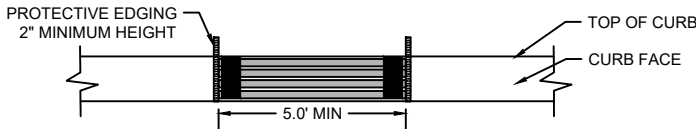
CUSTOM SIGNS
WASHINGTON SRTS
CUSTOM SIGN

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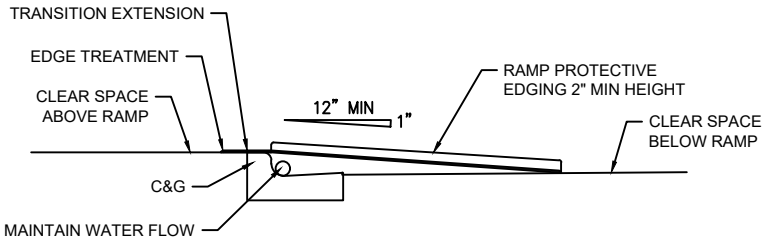
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	14
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	14



TOP VIEW



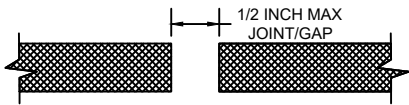
FRONT VIEW



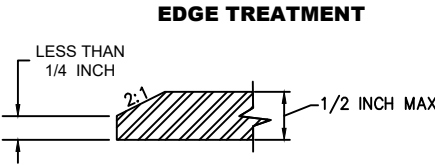
SIDE VIEW

TEMPORARY PERPENDICULAR CURB RAMP

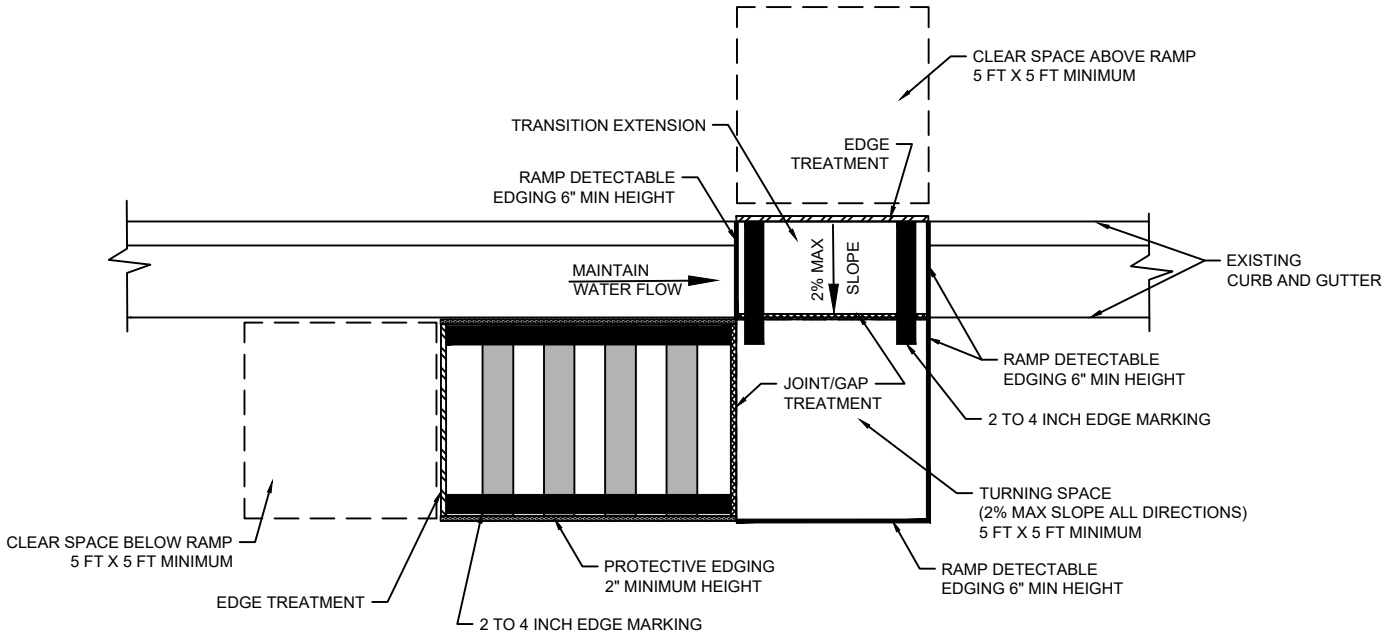
JOINT/GAP TREATMENT



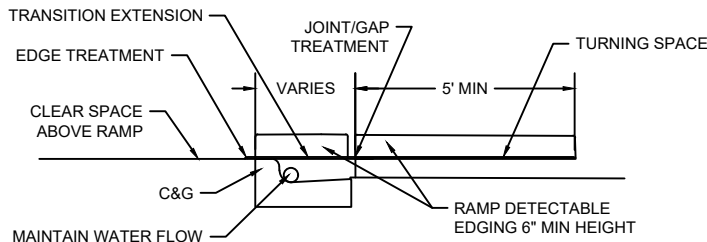
MAXIMUM WIDTH
LATERAL JOINTS OR GAPS



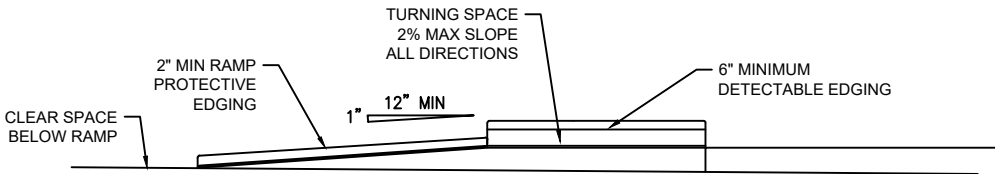
MAXIMUM SURFACE
HEIGHT CHANGE DETAIL



TOP VIEW



SIDE VIEW



FRONT VIEW

TEMPORARY PARALLEL CURB RAMP

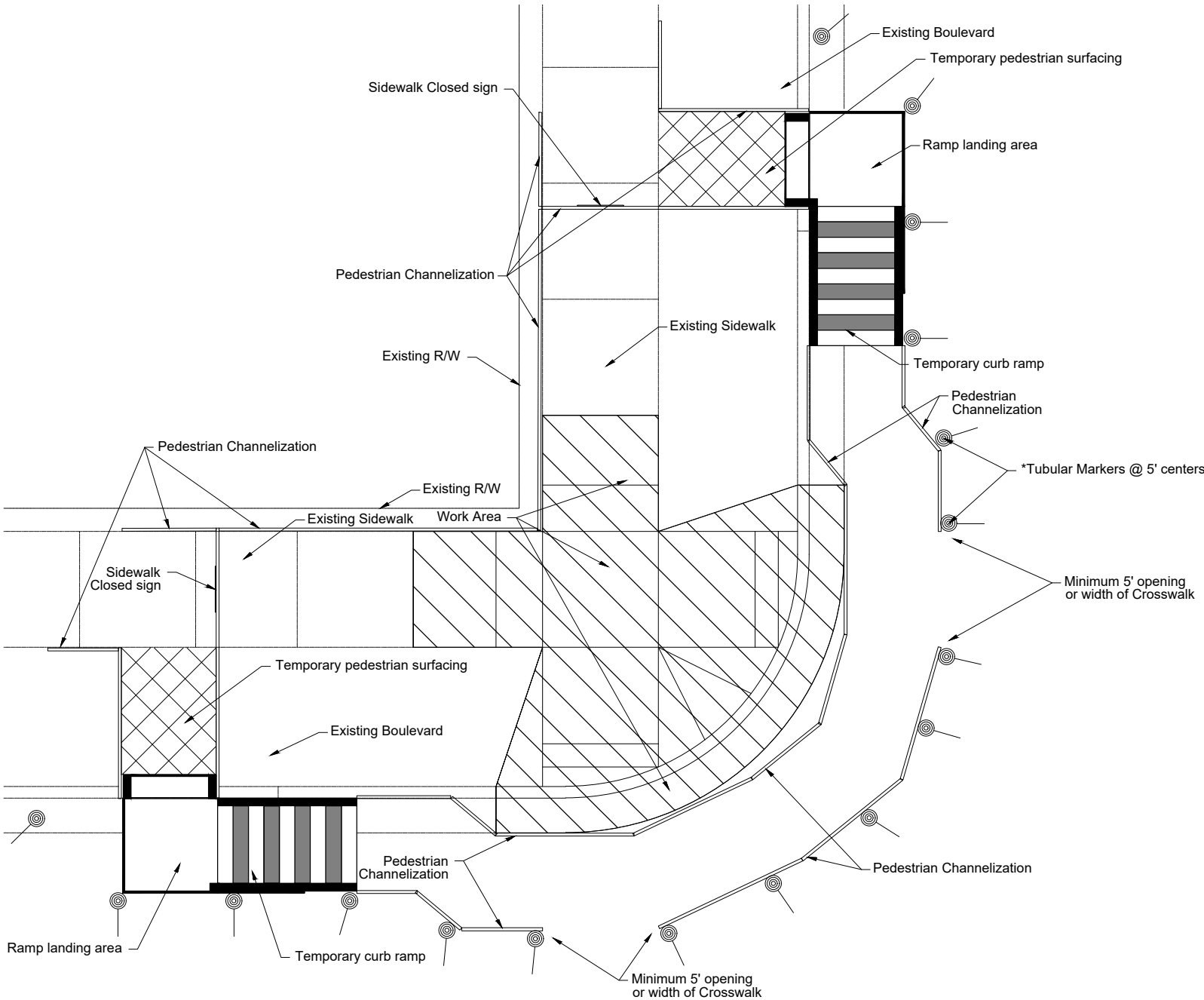
City of Minot
Engineering Department



TEMPORARY CURB RAMP
DETAILS

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	15
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	15

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



City of Minot
Engineering Department

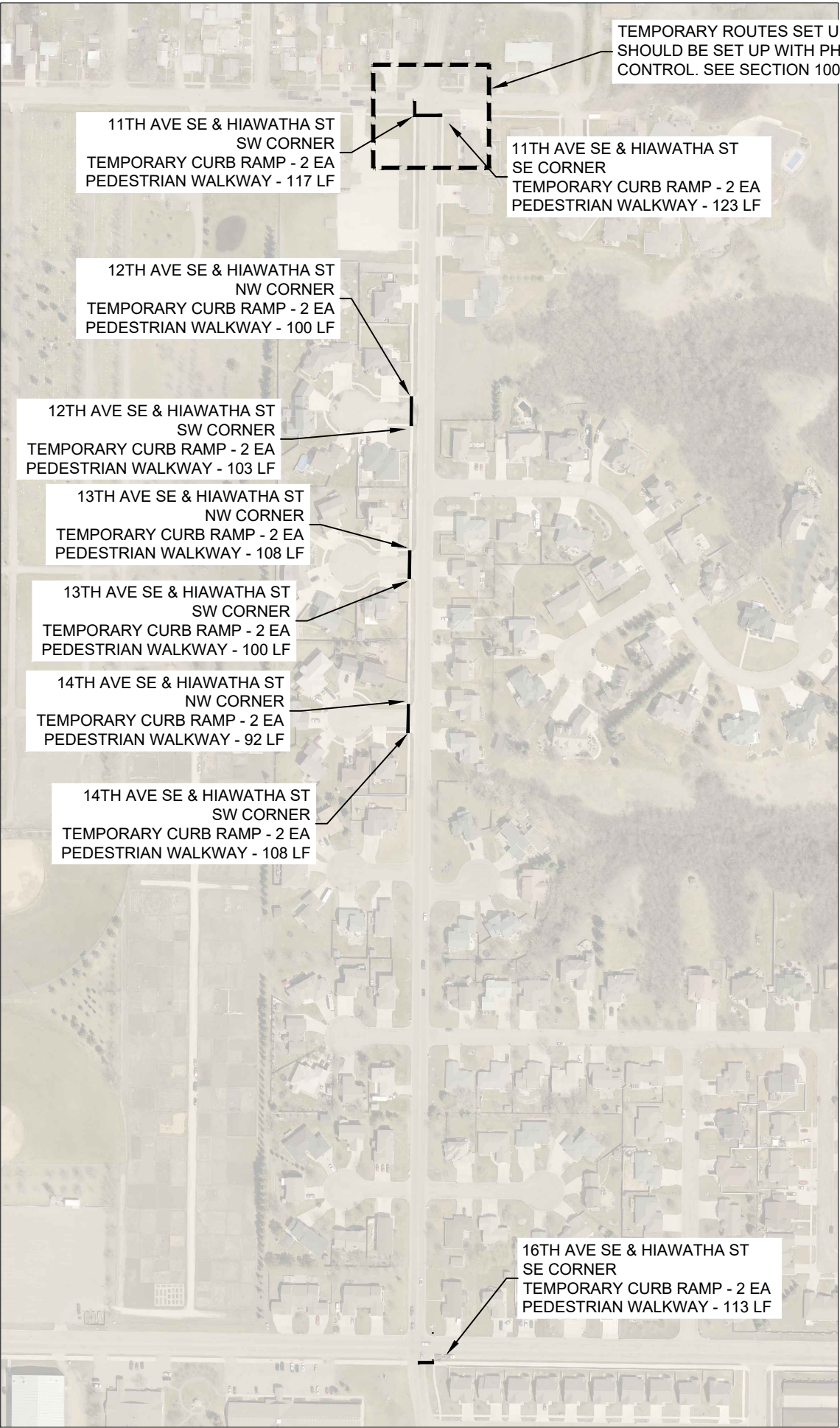
REGISTERED PROFESSIONAL ENGINEER

JESSE HOPKINS
PE-29748

DATE 1/3/2023

NORTH DAKOTA

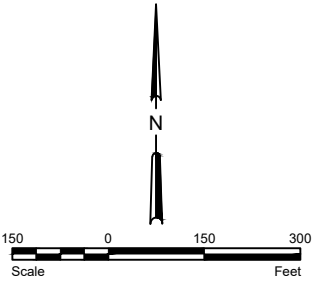
TEMPORARY CURB RAMP
TYPICAL LAYOUT



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	100	16
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	100	16

LEGEND

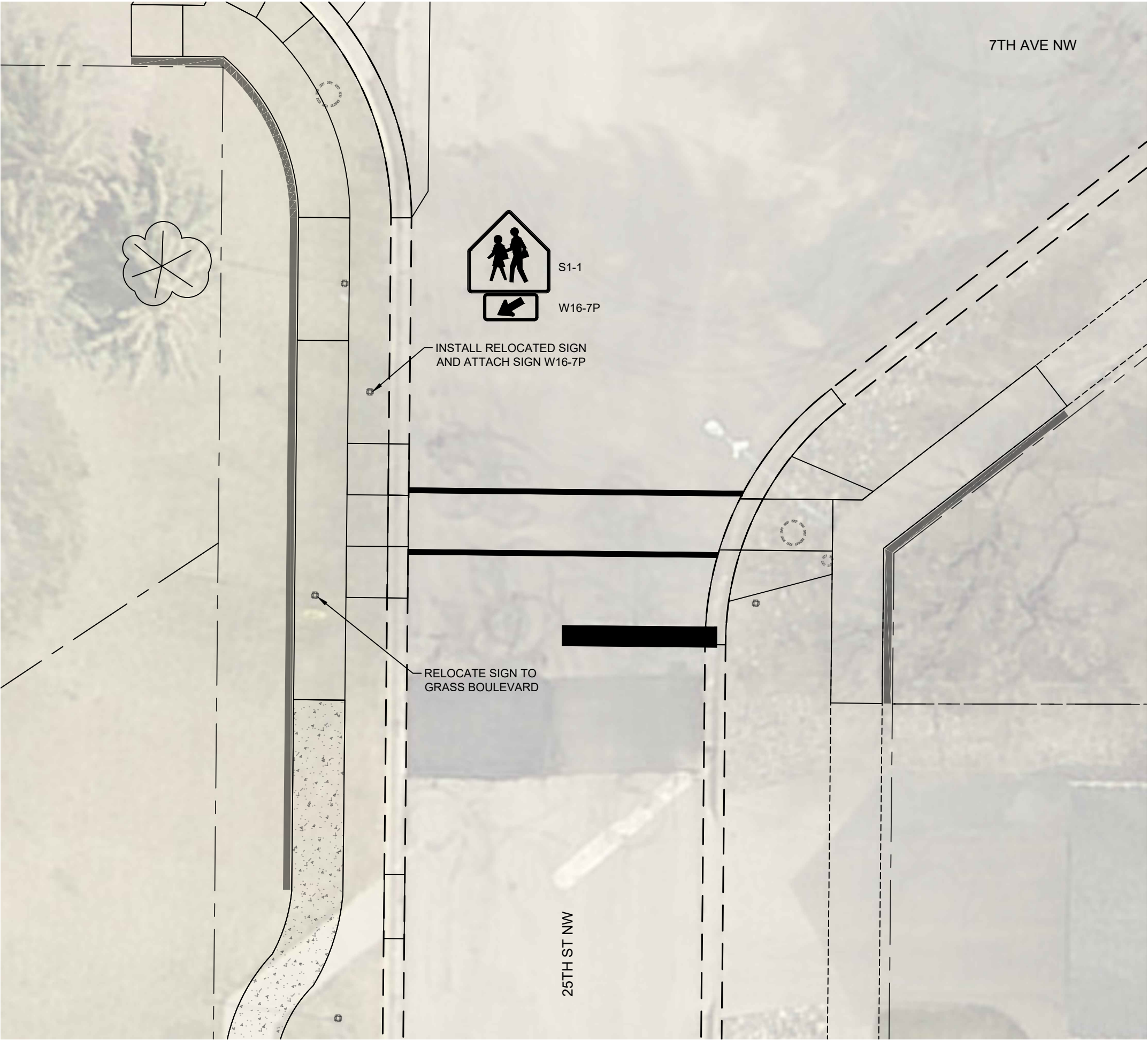
TEMPORARY CURB RAMP &
PEDESTRIAN ROUTE LOCATION



City of Minot
Engineering Department



TEMPORARY CURB RAMP
PEDESTRIAN ROUTE
LOCATIONS



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	110	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	110	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
754	110	FLAT SHEET FOR SIGNS - TYPE XI REFL SHEETING	SF	2

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

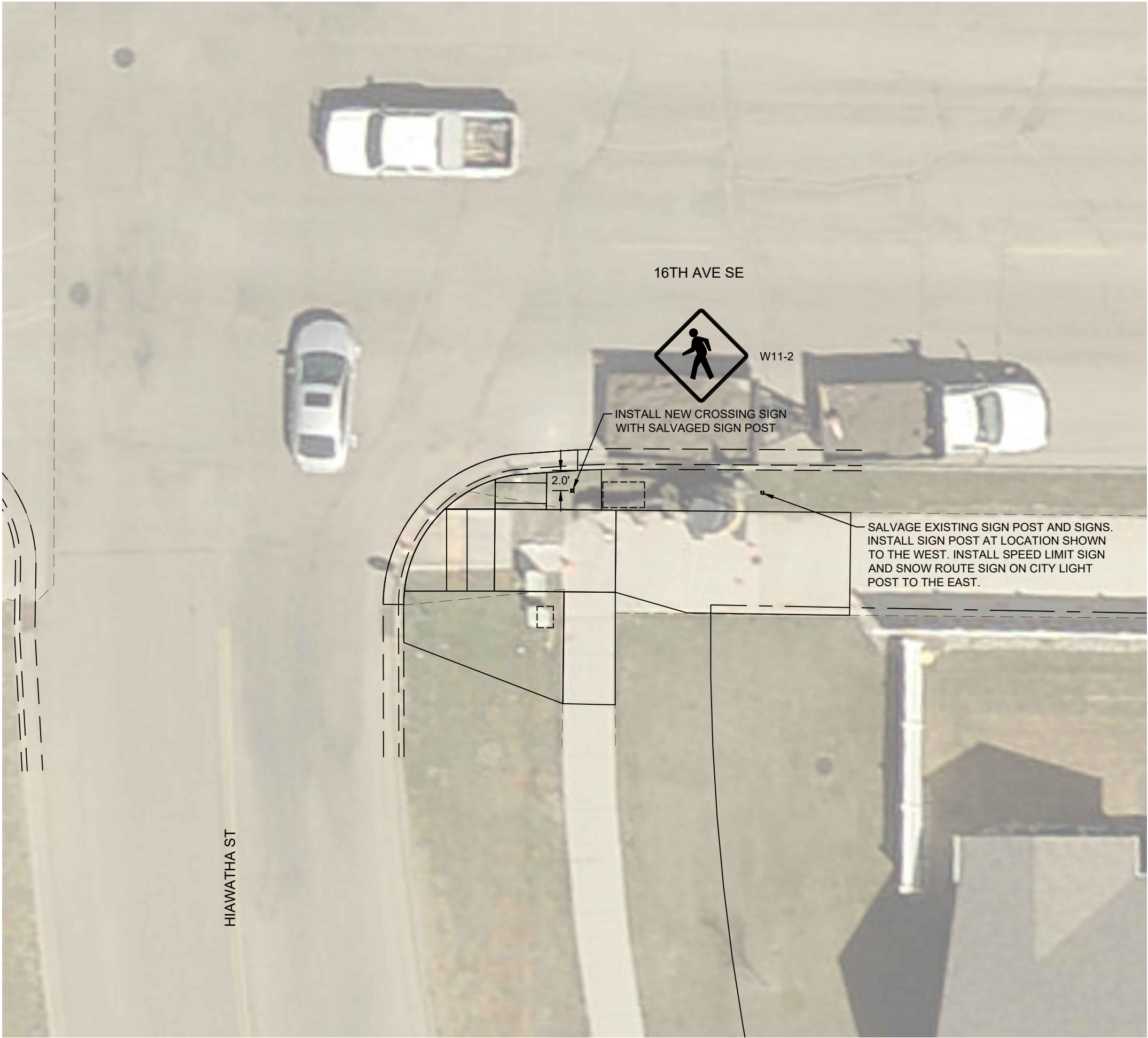
JESSE HOFFART

PE-29748

DATE 12/23/2022

NORTH DAKOTA

SIGNING
NEW SIGN DIMENSIONS



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	110	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	110	2

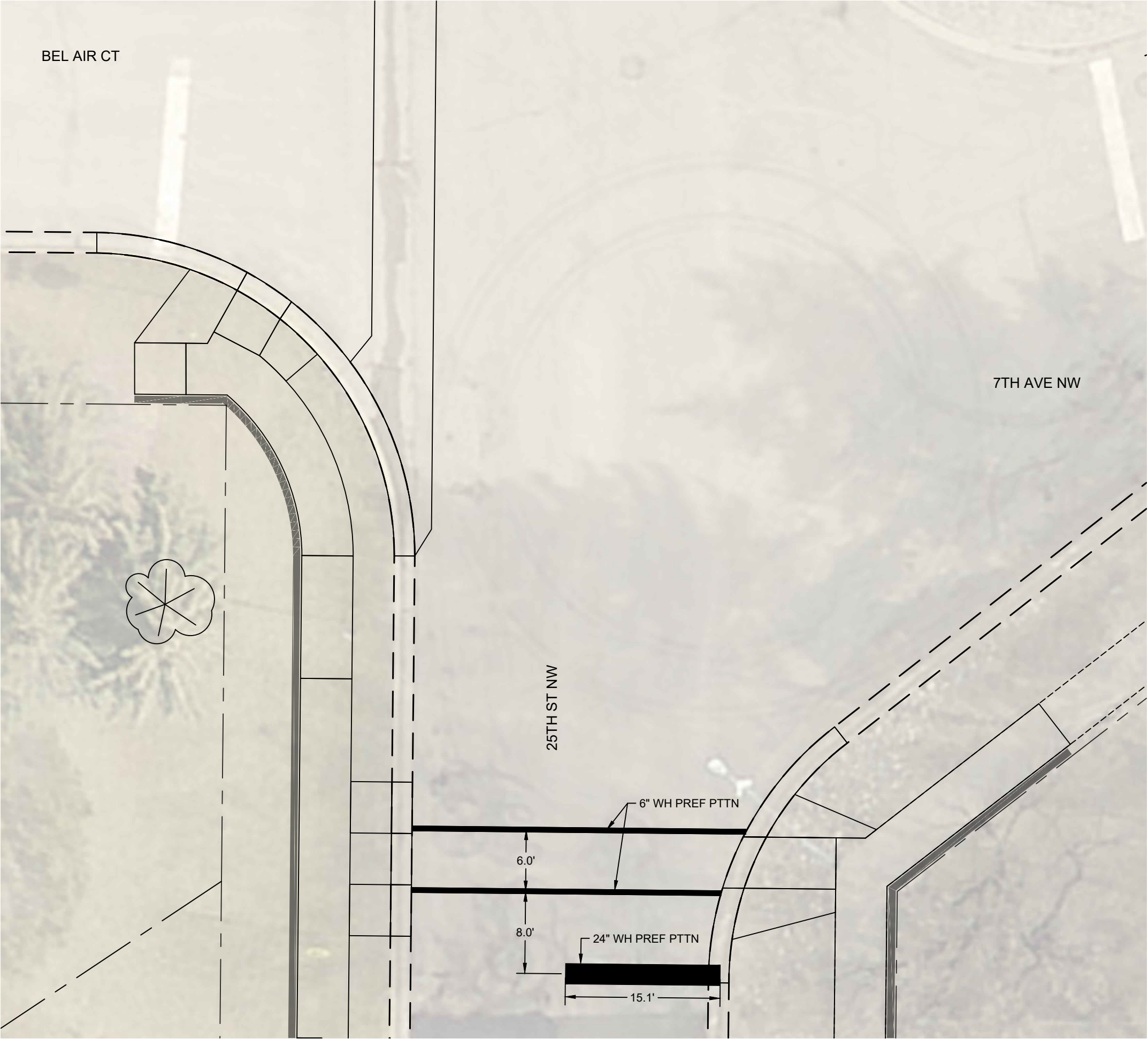
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
754	110	FLAT SHEET FOR SIGNS - TYPE XI REFL SHEETING	SF	137.7
754	206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	104

City of Minot
Engineering Department



SIGNING
NEW SIGN DIMENSIONS

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STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	120	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	120	1

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
762	1307	PREFORMED PATTERNED PVMT MK 6 IN LINE - GROOVED	LF	62.7
762	1325	PREFORMED PATTERNED PVMT MK 24 IN LINE - GROOVED	LF	15.1

City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART

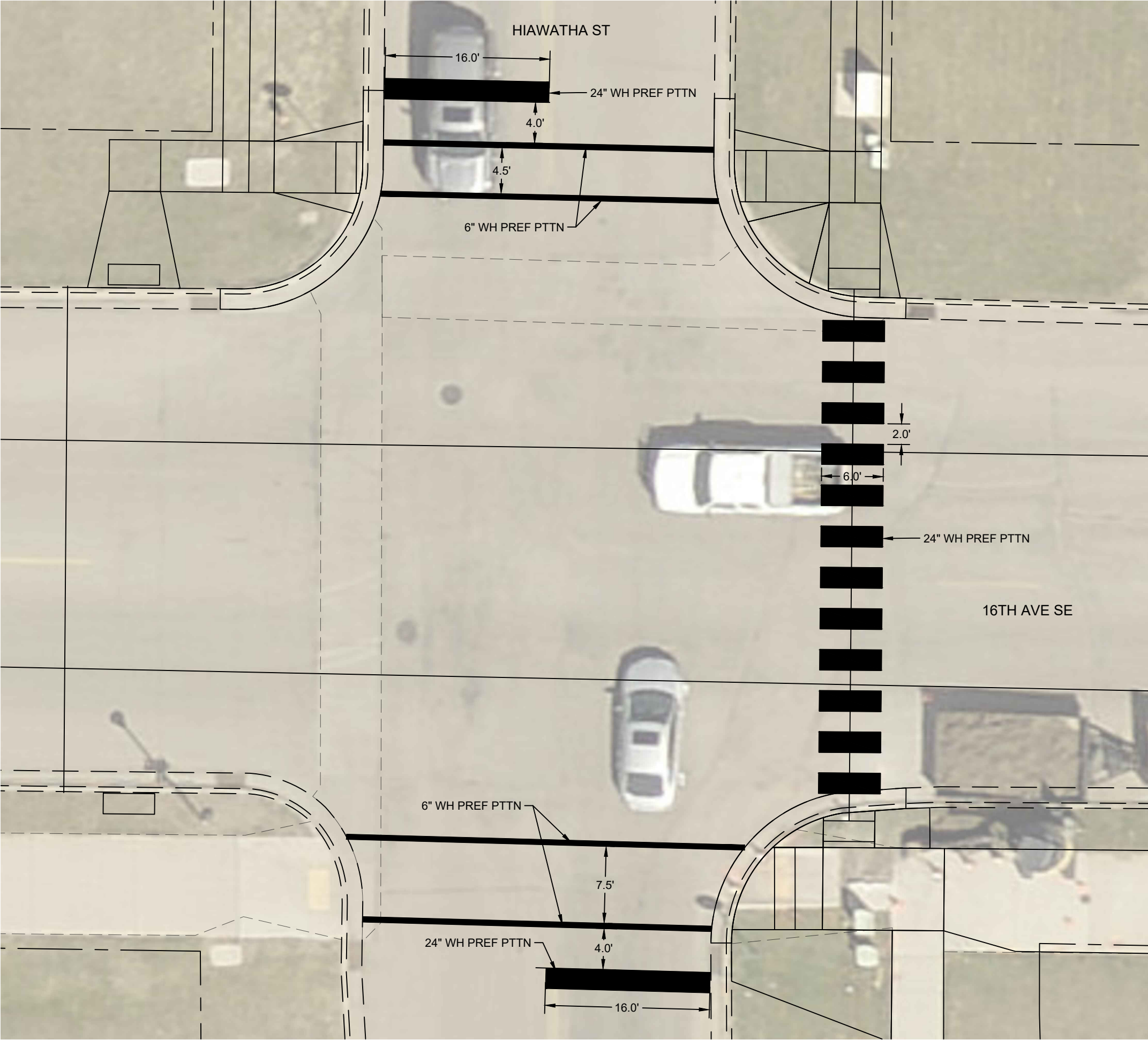
PE-29748

DATE 12/23/2022

NORTH DAKOTA

PAVEMENT MARKINGS
BEL AIR CT & 25TH ST NW

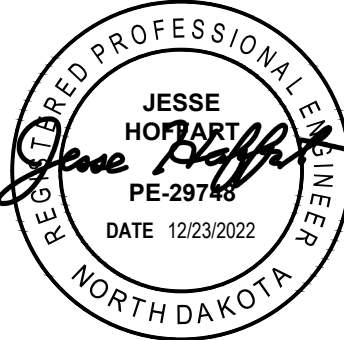
11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	120	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	120	2

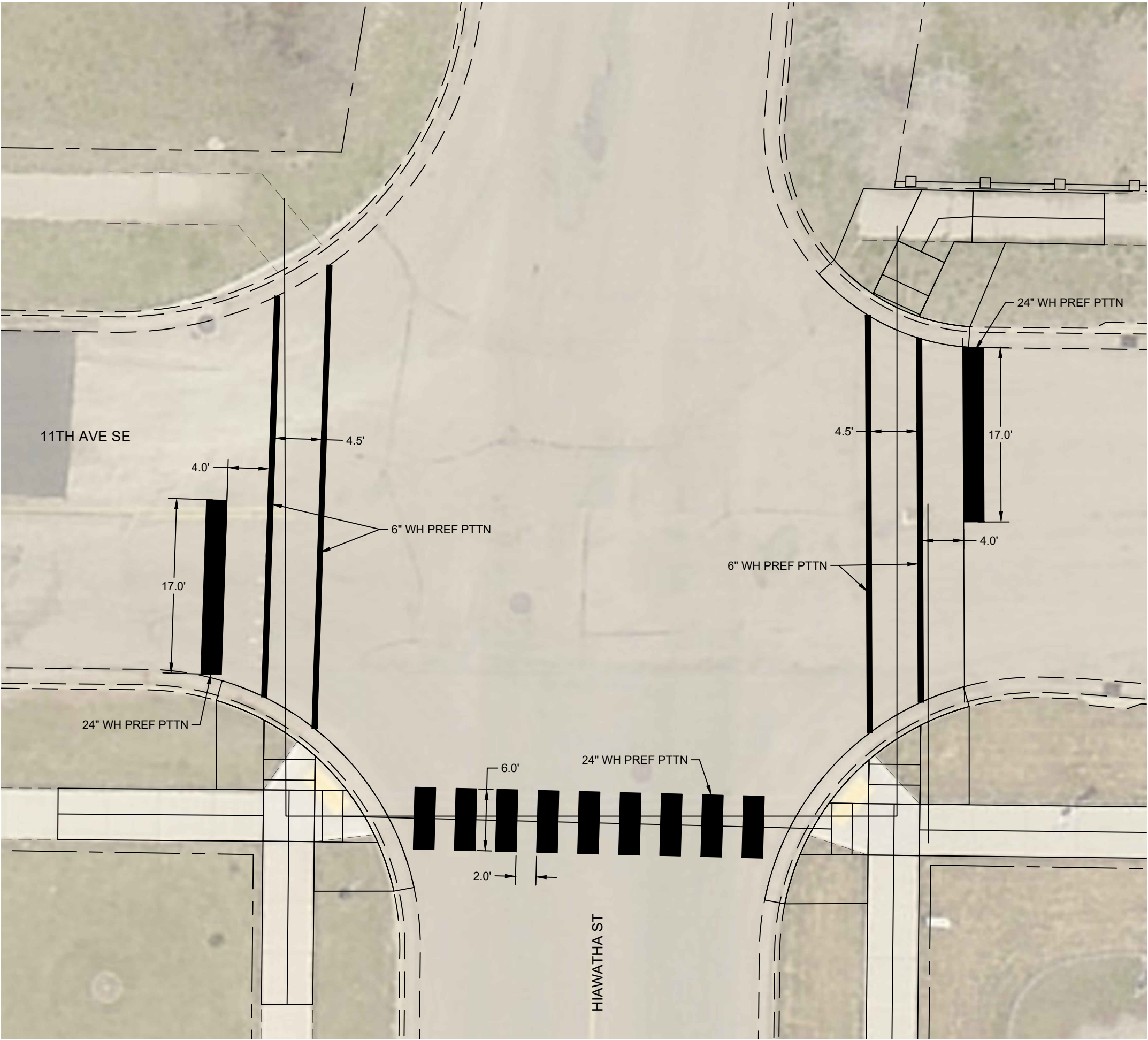
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
762	1307	PREFORMED PATTERNED PVMT MK 6 IN LINE - GROOVED	LF	137.7
762	1325	PREFORMED PATTERNED PVMT MK 24 IN LINE - GROOVED	LF	104

City of Minot
Engineering Department



PAVEMENT MARKINGS
16TH AVE SE & HIAWATHA ST

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg



STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	120	3
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	120	3

SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
762	1307	PREFORMED PATTERNED PVMT MK 6 IN LINE - GROOVED	LF	160.4
762	1325	PREFORMED PATTERNED PVMT MK 24 IN LINE - GROOVED	LF	88

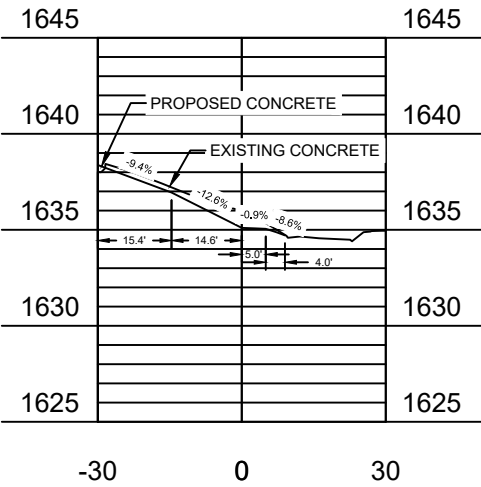
City of Minot
Engineering Department



PAVEMENT MARKINGS
11TH AVE SE & HIAWATHA ST

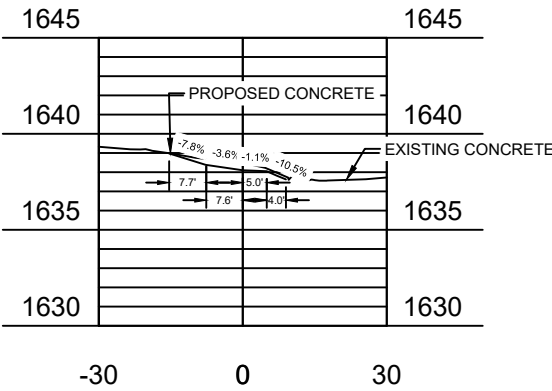
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	200	1
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	200	1

801 25TH ST NW



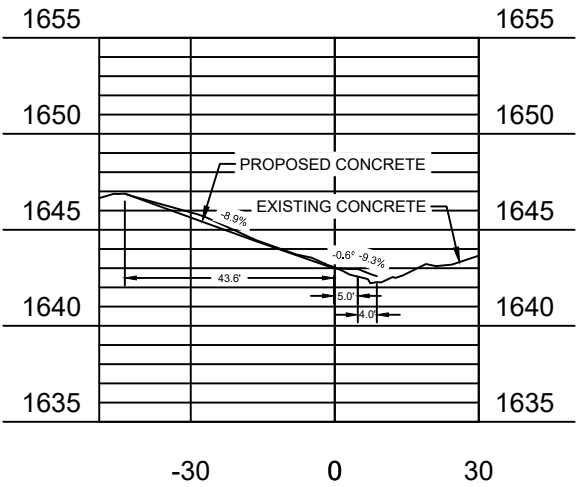
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VERTICAL SCALE: 1" = 10'

805 25TH ST NW



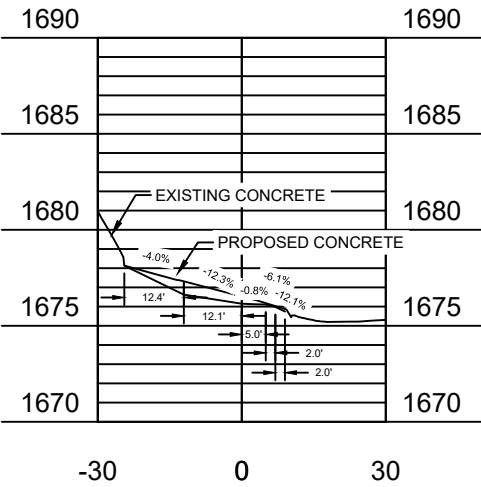
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

809 25TH ST NW



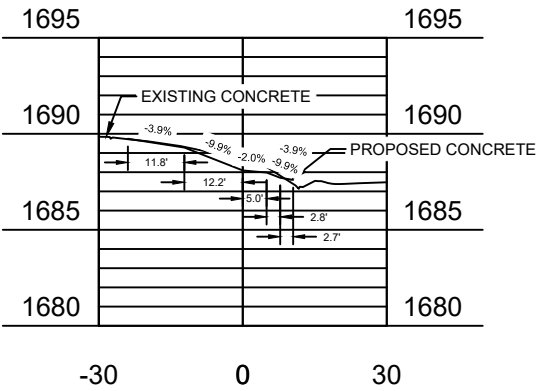
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VERTICAL SCALE: 1" = 10'

905 25TH ST NW



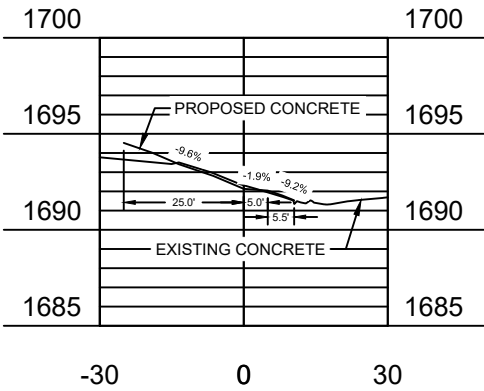
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VERTICAL SCALE: 1" = 10'

2505 10TH AVE NW

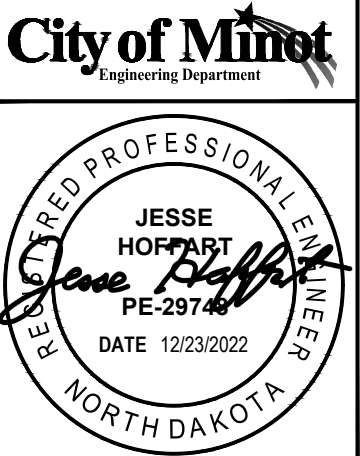


HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

2509 10TH AVE NW



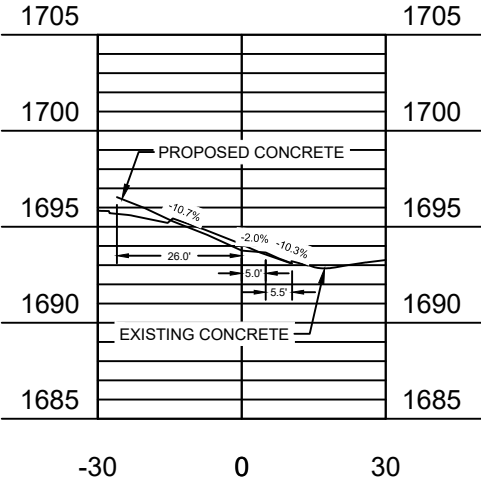
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VERTICAL SCALE: 1" = 10'



CROSS SECTIONS
BEL AIR PROPERTIES
STA 6+59 TO 15+48

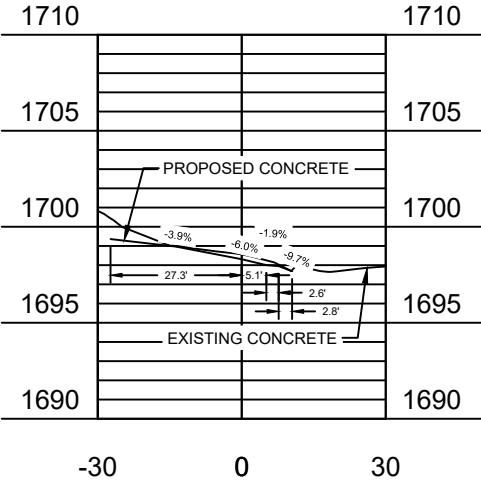
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	200	2
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	200	2

2513 10TH AVE NW



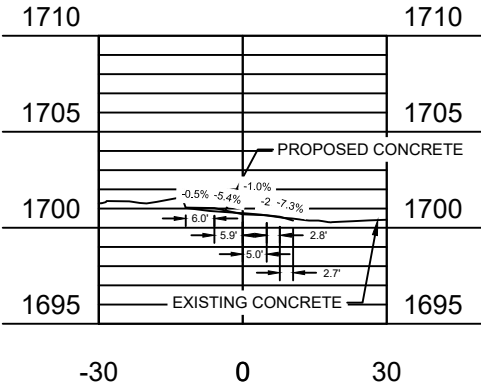
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VERTICAL SCALE: 1" = 10'

2517 10TH AVE NW



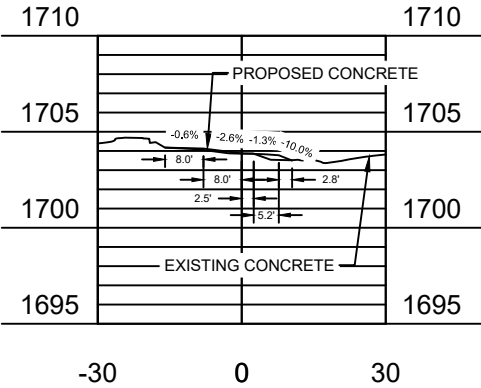
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VERTICAL SCALE: 1" = 10'

2521 10TH AVE NW



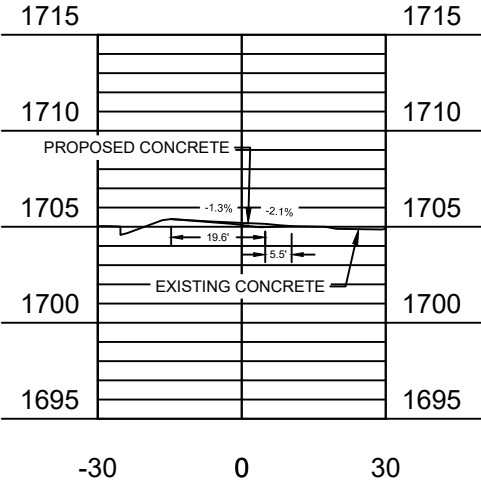
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2525 10TH AVE NW



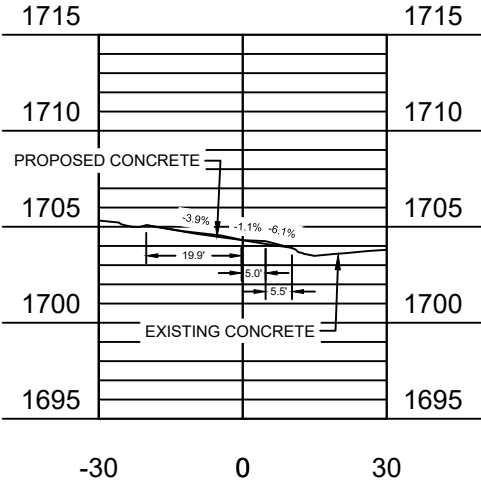
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VERTICAL SCALE: 1" = 10'

2529 10TH AVE NW



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

2533 10TH AVE NW



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

City of Minot
Engineering Department

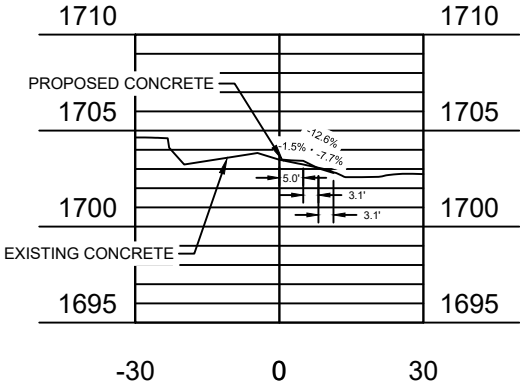
JESSE HOFFART
PE-29748
DATE 12/23/2022

REGISTERED PROFESSIONAL ENGINEER
NORTH DAKOTA

CROSS SECTIONS
BEL AIR PROPERTIES
STA 15+98 TO 20+33

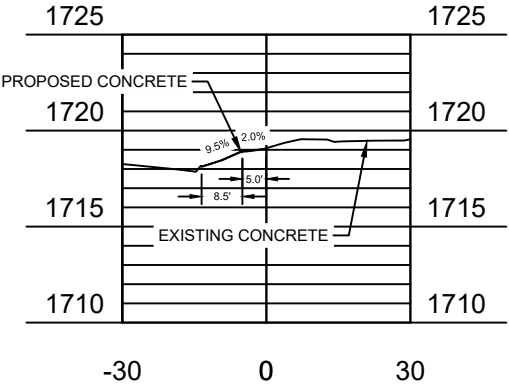
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	200	3
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	200	3

2537 10TH AVE NW



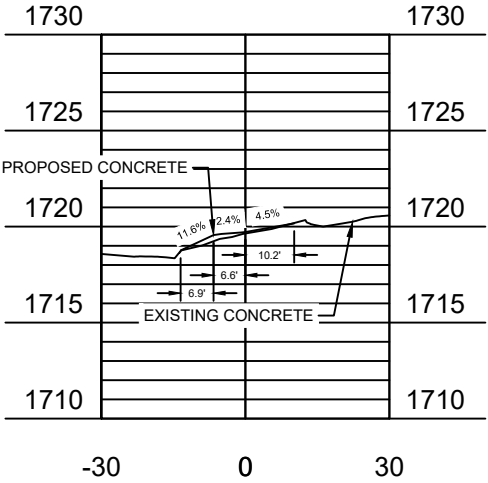
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VERTICAL SCALE: 1" = 10'

1012 27TH ST NW



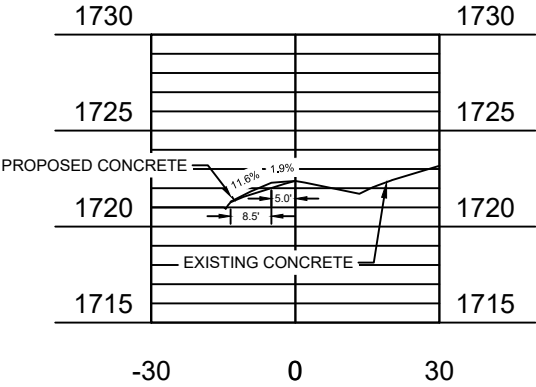
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VERTICAL SCALE: 1" = 10'

1016 27TH ST NW



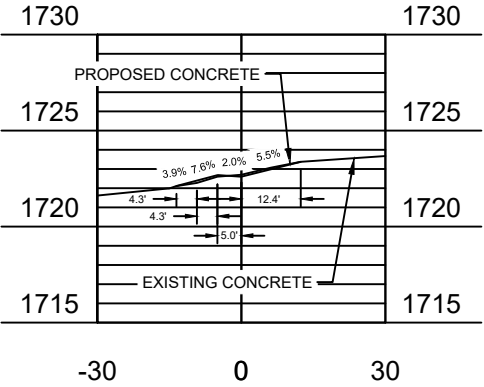
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

1108 27TH ST NW



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

1112 27TH ST NW



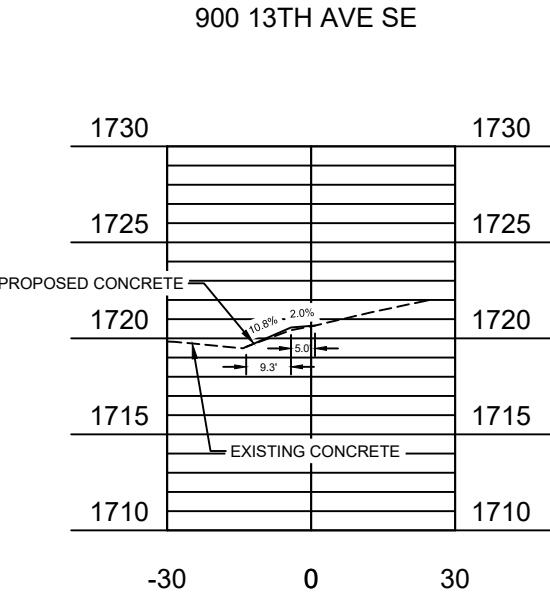
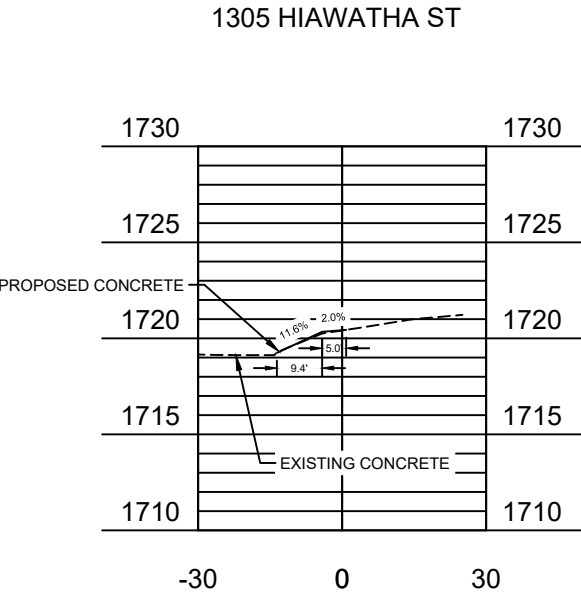
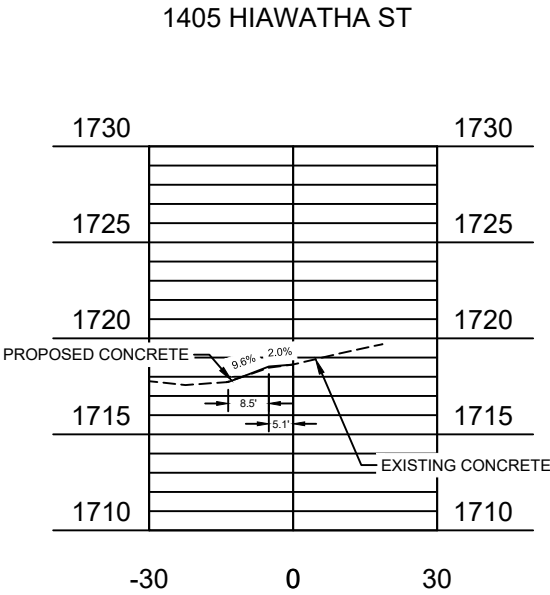
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

City of Minot
Engineering Department



CROSS SECTIONS
BEL AIR PROPERTIES
STA 20+98 TO 31+38

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	200	4
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	200	4



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOPFART
PE-29748

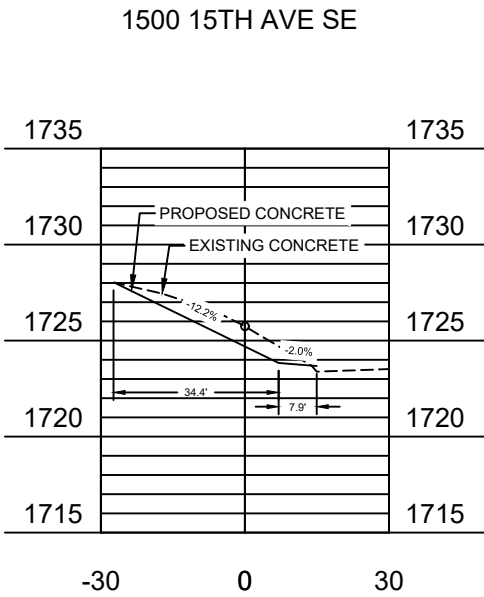
DATE 12/23/2022

NORTH DAKOTA

CROSS SECTIONS
HIAWATHA ST EAST PROPERTIES
STA 13+34 TO 17+98

11/18/2022 P:\PROJECTS\4577 - 2023 Bel Air SRTS\Design\Plans\4577 - 2023 SRTS.dwg

STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(126)	23244	200	5
STATE	PROJECT NO.	PCN NO.	SECTION NO.	SHEET NO.
ND	TAU-4-989(127)	23245	200	5



City of Minot
Engineering Department

REGISTERED PROFESSIONAL ENGINEER

JESSE HOFFART
PE-29748

DATE 12/23/2022

NORTH DAKOTA

CROSS SECTIONS
HIAWATHA ST WEST PROPERTIES
STA 5+95