

DESIGN DATA			
SUMMIT AVENUE / CR 140 - 76TH AVE TO 75TH AVE			
TRAFFIC	AVERAGE DAILY		MAX HR
CURRENT YEAR: 2021	PASS: 200	TRUCKS: 5	TOTAL: 205
FORECAST YEAR: 2041	PASS:	TRUCKS:	TOTAL:
CLEAR ZONE DISTANCE:		DESIGN SPEED: 25 MPH	
MINIMUM SIGHT DIST. FOR STOPPING:		BRIDGES: N/A	

STATE	PROJECT NO.	PCN	SEC. NO.	SHEET NO.
ND	SC-3004(054)	23864	1	1

FEDERAL AID PROJECT
SC-3004(054)
Morton County, North Dakota

GRADING, ASPHALT MILL & REMOVAL AND REPLACEMENT,
CURB & GUTTER AND INCIDENTALS
SUMMIT AVE / CR 140 FROM 76TH AVE TO 75TH AVE
HEBRON, NORTH DAKOTA

GOVERNING SPECIFICATIONS

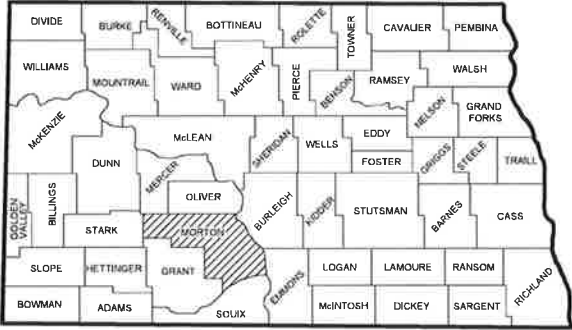
Date Published and Adopted
by the North Dakota
Department of Transportation

Standard Specifications

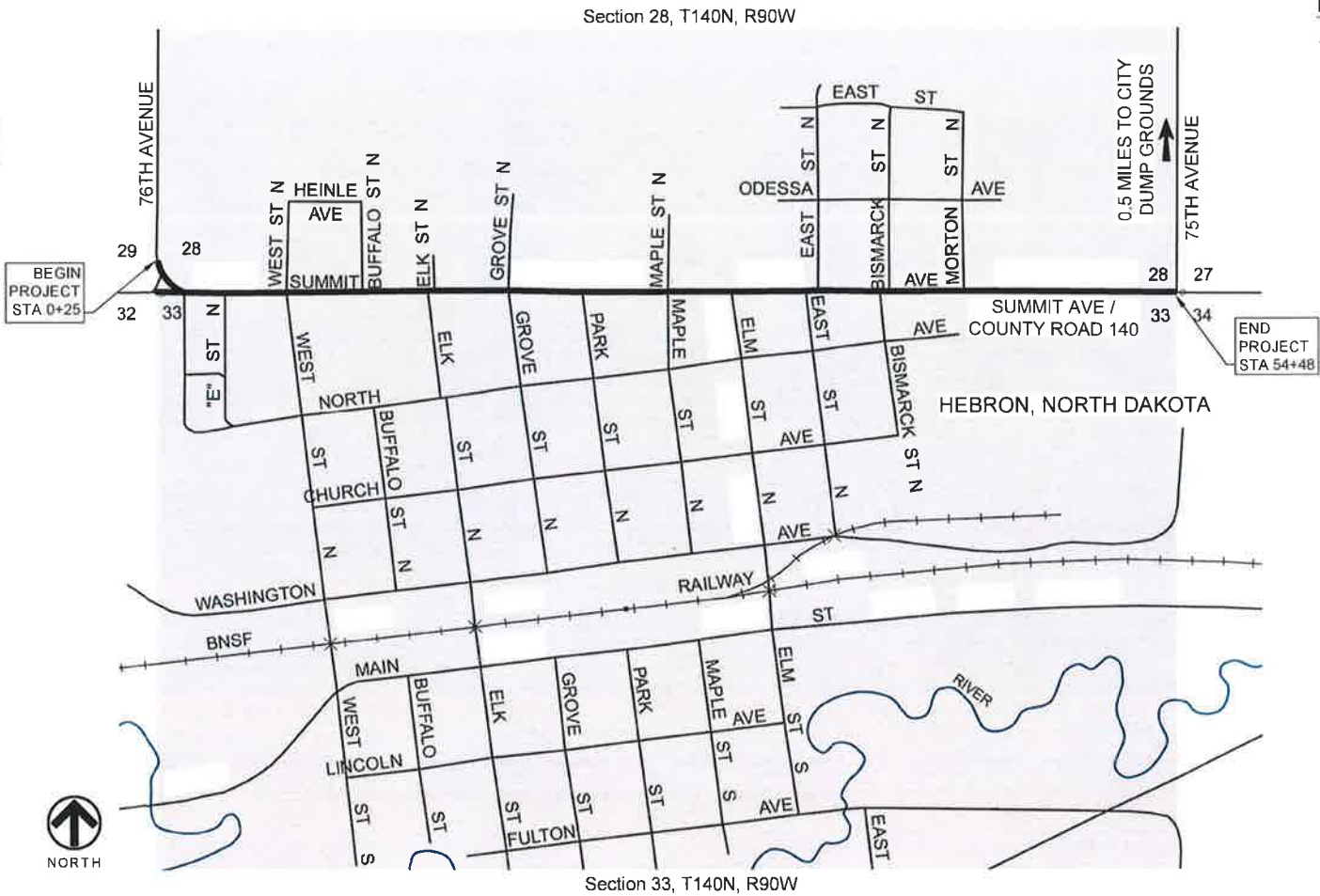
7/1/2024

Supplemental Specifications

NONE



STATE OF NORTH DAKOTA



DESCRIPTION

Summit Ave / CR 140

NET MILES

NET MILES

1.032

GROSS MILES

1.032

DESIGNERS

JOHN M. ERICKSON, PE

TODD W. NORTON, PLS



MORTON COUNTY

APPROVED DATE

12/3/2024

John A. Saiki
PE - 9745
County Engineer

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 12/03/2024

JOHN M. ERICKSON
PE - 29072

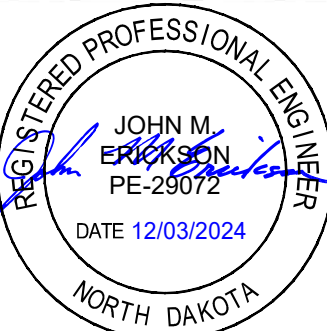


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PLAN SECTIONS		
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SPECIAL PROVISIONS

Number	Description
SSP 1	Temporary Erosion and Sedimentation Best Management Practices
SSP 3	Local Agency Contracts
SSP 10	E-Ticketing

LIST OF STANDARD DRAWINGS

Number	Description
D-261-1	Erosion Control Fiber Roll Placement Details
D-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube
D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post
D-704-9,10,11	Construction Sign Details
D-704-13	Barricade and Channelizing Device Details
D-704-14	Construction Sign Punching and Mounting Details
D-704-17	Sign Layout For One Lane Closure - Two Lane Roadway
D-704-22	Construction Truck and Temporary Detour Layouts
D-704-25	Lane Closures on Urban Street Layouts
D-704-26	Miscellaneous Sign Layouts
D-704-50	Portable Sign Support Assembly
D-708-6	Erosion and Siltation Controls - Median or Ditch Inlet Protection
D-748-1	Curb & Gutter and Valley Gutter

CIVIL BOUNDARY LEGEND

	SECTION LINE
	PROPERTY BOUNDARY
	EASEMENT LINE
	RIGHT-OF-WAY
	PERMANENT EASEMENT
	CONSTRUCTION EASEMENT

CIVIL UTILITY LEGEND

EXISTING	PROPOSED	
		SANITARY SEWER
		SANITARY MANHOLE
		SANITARY CLEANOUT
		STORM DRAIN PIPE
		AREA INLET
		BEEHIVE INLET
		CURB INLET
		STORM MANHOLE
		FES OUTFALL
		WATER LINE
		CURB STOP
		GATE VALVE
		FIRE HYDRANT
		CABLE TV LINE
		CABLE TV PEDESTAL
		TELEPHONE LINE
		TELEPHONE PEDESTAL
		FIBER OPTIC LINE
		FIBER OPTIC PEDESTAL
		GAS LINE
		GAS LINE-ABANDONED
		ELECTRIC, UNDERGROUND
		ELECTRIC, OVERHEAD
		ELECTRIC UTILITY POLE
		ELECTRIC BOX
		ELECTRIC GUY
		ELECTRIC LIGHT
		MAILBOX
		UNKNOWN MANHOLE
		UNKNOWN VALVE
		SIGN

CIVIL TOPOGRAPHIC LEGEND

EXISTING	PROPOSED	
		BUILDING
		FENCE, BARBED WIRE
		FENCE, WOVEN WIRE
		FENCE, CHAINLINK
		FENCE, WOOD
		FENCE, VINYL
		TREE - GROUP
		TREE - CONIFEROUS
		TREE - DECIDUOUS
		SHRUB / BUSH
		SIGN
		MILE POST
		BORE HOLE
		RIGHT-OF-WAY MONUMENT
		CONTOUR - INDEX
		CONTOUR - INTERMEDIATE

CIVIL SURFACE LEGEND

EXISTING	PROPOSED	
		BITUMINOUS PAVEMENT
		CONCRETE
		GRAVEL

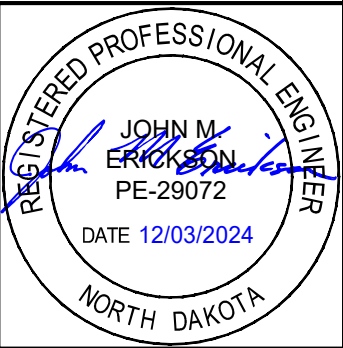


Table of Contents
List of Standard Drawings

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

100-P01 CONSTRUCTION LIMITS: The Contractor's operation is limited to the easement or right-of-way lines as shown on the plans. Restore any damage or disturbance of personal property beyond those identified easement or right-of-way lines to existing conditions or better. Any compensation due the property Owner will be agreed to between the property Owner and the Contractor and paid by the Contractor. Obtain a written release from the property Owner and furnish the Engineer with a copy.

100-P02 COORDINATION OF STAGING AREAS AND HAUL ROUTES: Limit staging to within the right of way, or furnish additional staging areas, if needed for Contractor operations. Designated haul routes determined by the Contractor in advance and approved by the Engineer and the Owner.

100-P03 CONSTRUCTION STAKING: The Owner will furnish and set construction stakes and marks for lines and grades. These stakes and marks will be set by the Engineer at appropriate times during the course of the project and will constitute the field control for the Contractor's use in establishing all necessary control to perform the work. The Owner and Engineer are not responsible for stakes and marks destroyed or disturbed. The Contractor will hire the Engineer at Engineer's standard hourly rates (plus travel and all reimbursable expenses) to reset any destroyed or disturbed stakes and marks. Determine the meaning of all the stakes, measurements, and marks before the survey crew leaves the site.

105-P01 PAVEMENT PROTECTION: Protect the existing pavement outside of construction limits during the course of construction. Surface repair which is required because of the Contractor's operations to be repaired by the Contractor at the Contractor's expense. Normal maintenance of existing pavement to be performed by the Owner.

105-P02 PAVEMENT SWEEPING: Sweep new pavements before opening to traffic and for final acceptance. For this sweeping, the Contractor will furnish and utilize a vacuum type sweeper to control the dust. Include all costs connected with this work in the price bid of other items.

Sweep existing paved surfaces due to the construction equipment tracking. All costs included in the price bid for other bid items.

105-P03 TREES AND SHRUBS: Exercise care in construction operations to ensure that all trees and shrubs within the construction area that are to remain, are not disturbed.

105-P04 UTILITY LOCATIONS AND ELEVATIONS: The approximate location of known existing underground utility lines are shown on the plans. Other unknown utilities may exist. Determine the exact location and elevation of all existing utilities before commencing work and protect all utilities or repair any damage which occurs because of failure to accurately locate and preserve any and all existing utilities. "Potholing" or exploratory excavation performed as an incidental to the project when needed to verify location, elevation, size, and material at locations of crossings.

107-P01 HAUL ROAD RESTRICTIONS: Contact the appropriate State, County, Township, or City officials to determine if there are any "No Haul Routes" prior to preparing a bid for this project. No paved City or Township roads can be used as haul roads.

202-P03 PAVEMENT REMOVAL: The bid item "Removal of Pavement" to include all equipment, materials, and all labor necessary to remove existing pavement surfaces. Dispose of all pavement removed in an approved location in accordance with all applicable laws and regulations. The bid item " Mill & Removal of Bituminous Paving" includes all equipment, materials, and all labor necessary to mill, remove, load, and haul bituminous millings to the City of Hebron's dump grounds. Coordinate exact location of stock pile with the City of Hebron's Public Works Superintendent.

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203-P01 PROTECTION OF EXISTING SIGNS AND MAIL BOXES: Protect or Remove and Replace signs and mail boxes as required to accommodate construction. Replace to pre-project conditions. Costs of protection and/or removal and replacement of signs and mail boxes are incidental to the project.

216-P01 WATER: Water required for compaction purposes will not be measured or paid for separately, rather included in the price of the item being placed. Water for dust palliative purposes to be paid at Contract unit price when authorized by Engineer.

253-P01 MULCHING: Hydraulic Mulch as defined in Section 253 of the Standard Specifications.

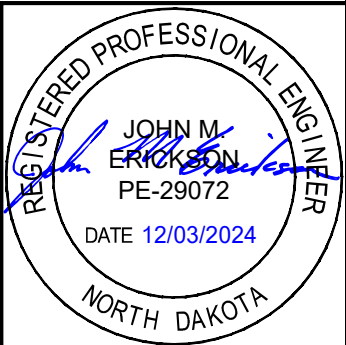
302-P01 AGGREGATE BASE COURSE: Aggregate base course will not be measured for payment unless changes are made in the field. Payment for aggregate base course will be at plan quantity for in-place compacted volume. No allowance for shrinkage or waste will be made.

302-P02 TRIMMING AGGREGATE BASE COURSE: Use Surface Tolerance Type B for the aggregate base course. Reincorporate excess material removed from high points of the aggregate base course from the trimming operation back into the aggregate base course. Include all costs for providing the required grade and cross section in the unit price for bid for "Aggregate Base Course".

401-P01 TACK COAT: Provide tack meeting NDDOT specifications for SS1H or CSS1H emulsified asphalt and be placed on a dry, clean swept surface. Apply tack coat at a rate of 0.05 gallon/sy per lift. Include all costs for tack coat in the bid item "Superpave FAA 43."

430-P01 ASPHALT CEMENT: Provide PG58S-28 asphalt cement of such content as recommended by the mix design. Separate payment will be made for asphalt cement in the bituminous mixture as determined by the daily cut-off report.

430-P03 SUPERPAVE FAA 43: Paver lay the hot bituminous pavement in 3 equal depth lifts. Payment will be made at the unit price per ton for the minimum specified in-place thickness. Payment is at plan quantity for in-place compacted volume.



General Notes

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

550-P01 JOINT SEALING: Seal all concrete joints within the street pavement, including curb and gutter. No separate measurement or payment will be made for joint sealant. Include all costs in the respective paving bid items.

704-P01 TRAFFIC CONTROL: Ensure access is provided to adjacent properties at all times and provide signing, barricades, and flagging as needed. Provide access for emergency vehicles at all times.

Conform to NDDOT Standard Specification 704.03 when installing and maintaining the traffic control devices. Cost is per the unit prices for the respective traffic control devices. Additional payment will not be made for traffic control signs that are moved and reset.

Traffic control devices list: the traffic control devices list has been developed using the following layouts and standard drawings for traffic control

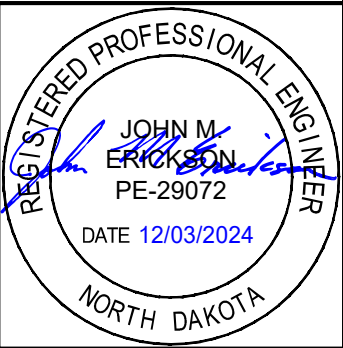
STANDARD D-704-17: SIGN LAYOUT FOR ONE LANE CLOSURE - TWO LANE ROADWAY

STANDARD D-704-7, 8, 9, 10, 11, 13, 14, 17, 22, 25, 26, AND 50 ARE APPLICABLE

STANDARD D-704-26, LAYOUT TYPE BB, CC, DD, GG, EE, AND FF, FOR PAVING OPERATIONS.

722-P01 ADJUST MANHOLE: Make adjustments to existing manhole castings by using precast concrete rings. Provide rings that are 2 inches thick, and have an inside diameter matching that of the existing structure. Place rings between the manhole casting and top section with a grouted chimney seal. Protect all existing manholes. Repair any damage to manholes at Contractor's expense.

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General Notes

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

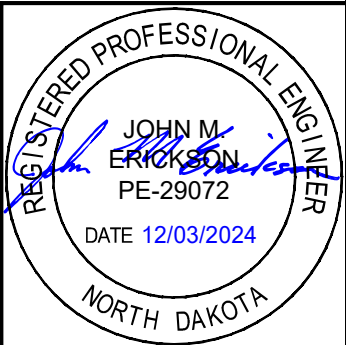
Estimated Quantities

Revised	1/22/2025	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SC-3004(054)	8	1

SPEC	CODE	ITEM DESCRIPTION	UNIT	SC-3004(054)	TOTAL
103	0100	CONTRACT BOND	L SUM	1	1
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	2618	2618
202	0130	REMOVAL OF CURB & GUTTER	LF	419	419
202	0135	REMOVAL OF BITUMINOUS SURFACING	TON	3632	3632
203	0126	REMOVE & SALVAGE TOPSOIL	SY	182	182
203	0138	COMMON EXCAVATION-SUBCUT	CY	4754	4754
216	0100	WATER	M GAL	2.1	2.1
230	0172	SUBGRADE PREPARATION-TYPE A-18IN	STA	56	56
251	0200	SEEDING CLASS II	ACRE	1.1	1.1
253	0201	HYDRAULIC MULCH	ACRE	1.1	1.1
261	0112	FIBER ROLLS 12IN	LF	800	800
302	0120	AGGREGATE BASE COURSE CL 5	TON	7624	7624
302	0356	AGGREGATE SURFACE COURSE CL 13	TON	56	56
430	0043	SUPERPAVE FAA 43	TON	7032	7032
430	5803	PG 58S-28 ASPHALT CEMENT	TON	422	422
702	0100	MOBILIZATION	L SUM	1	1
704	0100	FLAGGING	MHR	80	80
704	1000	TRAFFIC CONTROL SIGNS	UNIT	724	724
704	1052	TYPE III BARRICADE	EA	20	20
704	1060	DELINEATOR DRUMS	EA	30	30
704	1067	TUBULAR MARKERS	EA	200	200
722	6140	ADJUST GATE VALVE BOX	EA	13	13
722	6200	ADJUST MANHOLE	EA	13	13
748	0140	CURB & GUTTER-TYPE I	LF	419	419
748	1030	VALLEY GUTTER 72IN	SY	89	89
750	1000	DRIVEWAY CONCRETE	SY	31	31

Estimated Quantities						STATE	PROJECT NO.	SECTION NO.	SHEET NO.
						ND	SC-3004(054)	8	1
SPEC	CODE	ITEM DESCRIPTION	UNIT	SC-3004(054)	TOTAL				
103	0100	CONTRACT BOND	L SUM	1	1				
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	2618	2618				
202	0119	SAW CONCRETE	LF	83	83				
202	0130	REMOVAL OF CURB & GUTTER	LF	419	419				
202	0135	REMOVAL OF BITUMINOUS SURFACING	TON	3632	3632				
202	0153	SAW BITUMINOUS SURFACING-FULL DEPTH	LF	294	294				
203	0126	REMOVE & SALVAGE TOPSOIL	SY	182	182				
203	0138	COMMON EXCAVATION-SUBCUT	CY	4754	4754				
216	0100	WATER	M GAL	2.1	2.1				
230	0172	SUBGRADE PREPARATION-TYPE A-18IN	STA	56	56				
251	0200	SEEDING CLASS II	ACRE	1.1	1.1				
253	0201	HYDRAULIC MULCH	ACRE	1.1	1.1				
261	0112	FIBER ROLLS 12IN	LF	800	800				
302	0120	AGGREGATE BASE COURSE CL 5	TON	7624	7624				
302	0356	AGGREGATE SURFACE COURSE CL 13	TON	56	56				
430	0043	SUPERPAVE FAA 43	TON	7032	7032				
430	5803	PG 58S-28 ASPHALT CEMENT	TON	422	422				
702	0100	MOBILIZATION	L SUM	1	1				
704	0100	FLAGGING	MHR	80	80				
704	1000	TRAFFIC CONTROL SIGNS	UNIT	724	724				
704	1052	TYPE III BARRICADE	EA	20	20				
704	1060	DELINEATOR DRUMS	EA	30	30				
704	1067	TUBULAR MARKERS	EA	200	200				
722	6140	ADJUST GATE VALVE BOX	EA	13	13				
722	6200	ADJUST MANHOLE	EA	13	13				
748	0140	CURB & GUTTER-TYPE I	LF	419	419				
748	1030	VALLEY GUTTER 72IN	SY	89	89				
750	1000	DRIVEWAY CONCRETE	SY	31	31				

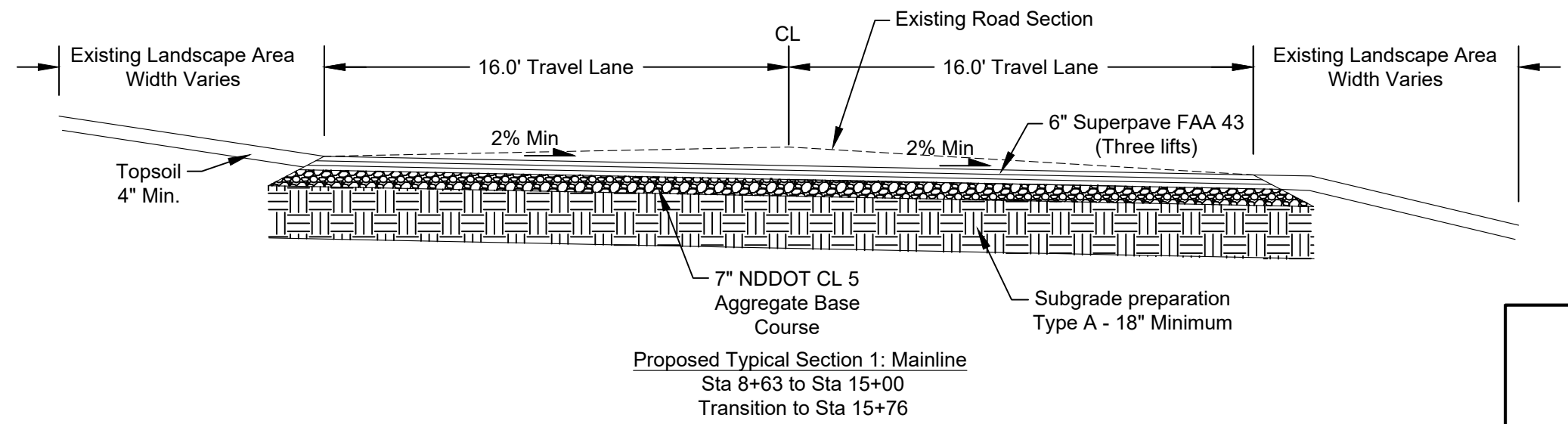
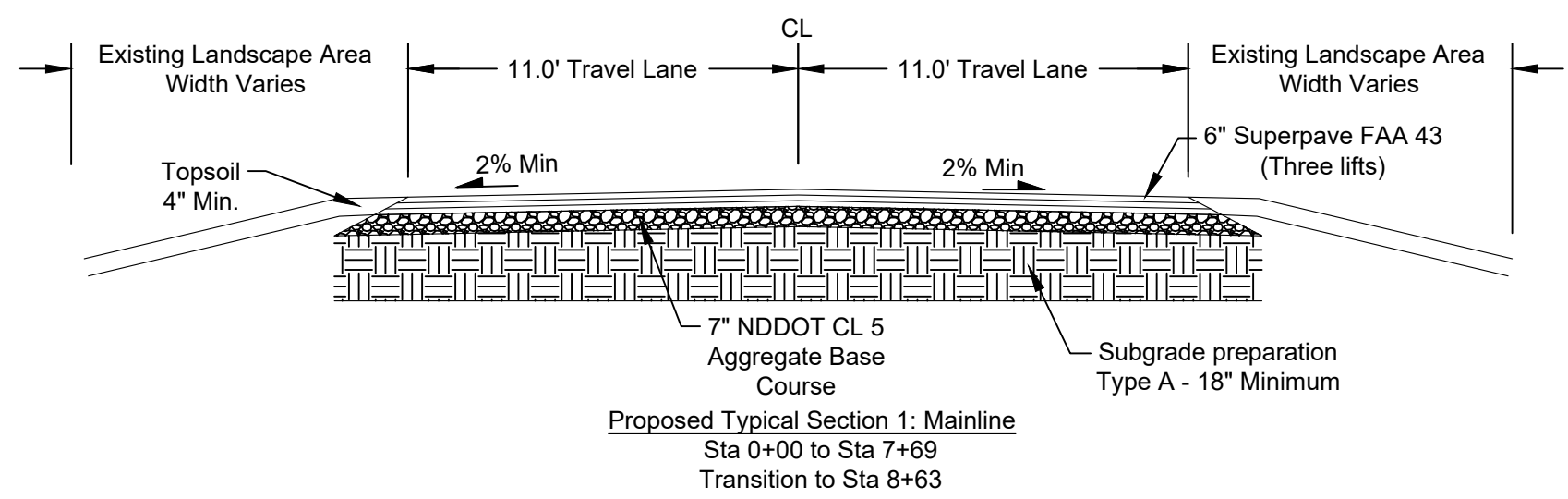
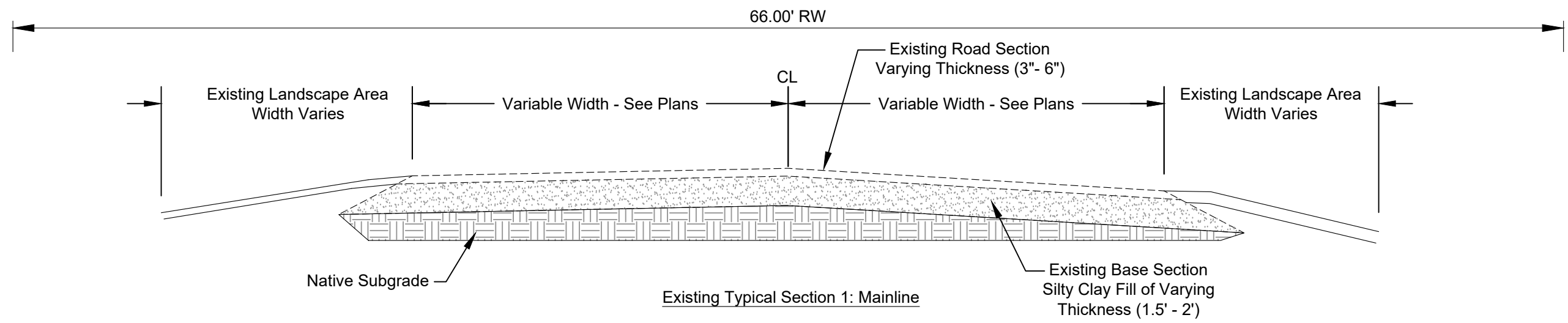
BASIS OF ESTIMATE		STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SC-3004(054)	10	1
EARTHWORK					
Common Excavation - Subcut		Unit			
Excavation quantities are in-place volume calculated for the subcut and removal of excess material to accomodate new pavement section. 9" depth over plan area for removal of bituminous surfacing. Common Excavation is paid at plan quantity.		CY			
REMOVALS					
Mill & Removal of Bituminous Surfacing					
The bid item "Removal of Bituminous Surfacing" is measured and paid for by plan quantity based on 4" thickness @ 2.0 Ton/CY.		TON			
ROADWAY SECTION					
Concrete Pavement					
Valley Gutters - 72 inch wide, reinforced - 7 inch depth		SY			
Curb and Gutter - NDDOT Type 1		LF			
Aggregate Base Course CL 5					
The bid item "Aggregate Base Course" is measured and paid for by plan quantity based on 7" thickness @ 1.875 Ton/CY. Volume is in-place compacted volume. In addition to mainline quantity, Seven (7) inches of Aggregate Base Course has been included beneath curb & gutter shown for replacement.		TON			
Gravel Surfacing - CL 13					
Use as gravel surfacing for transitions to existing approaches. Quantity based on 6 Inch thickness @ 1.875 Ton/CY.		TON			
Water					
Include cost of water for Subgrade Preparation and Aggregate Base included in respective items. Payment provided only for water used as Dust Palliative, estimated at 2 MGal per mile.		MGAL			
Asphalt Pavement Superpave FAA 43					
The bid item "Superpave FAA 43" is measured and paid for by plan quantity based on 6" thickness @ 2.0 Ton/CY. Plan area is in-place compacted area of specified minimum pavement thickness.		TON			
Asphalt Cement					
Provide PG58S-28 asphalt cement at a content as recommended by the mix design. Separate Payment will be made for asphalt cement in the bituminous mixture as determined by the daily cut-off report. Plan quantity based on 6.0% of mixture by weight.		TON			
Tack Coat					
SS-1h or CSS-1h emulsified Asphalt @ 0.05 gal./sy. Applied on each of two lifts. Include all costs in the bid item "Superpave FAA 43."		N/A			
TRAFFIC CONTROL					
Flagging					
Estimated at 2 flaggers for 1 week at 40 hrs./wk = 80 hrs. To be used when authorized by Engineer.		MHR			
RESTORATION					
Seeding Class II and Hydraulic Mulch					
Quantity based on seeding and mulching 2' beyond curb and gutter marked for replacement, plus 10' beyond paving limits for sections without curb & gutter as shown on plans.		ACRE			



Basis of Estimate

HMA Pavement Reconstruction
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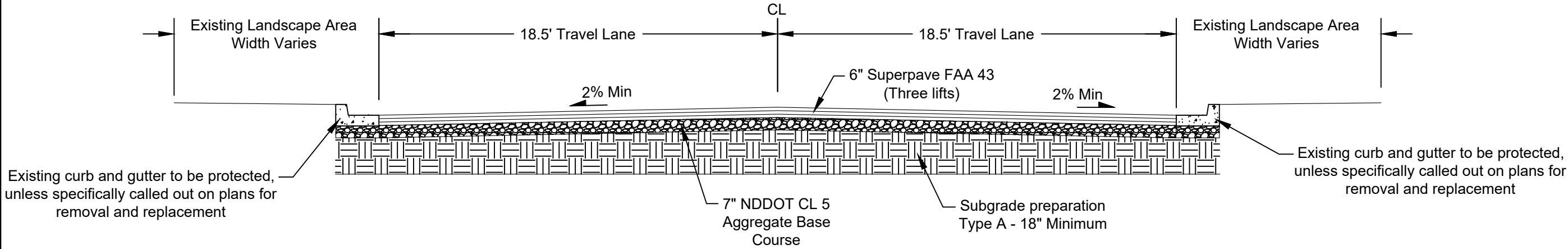
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ND	SC-3004(054)	30	1



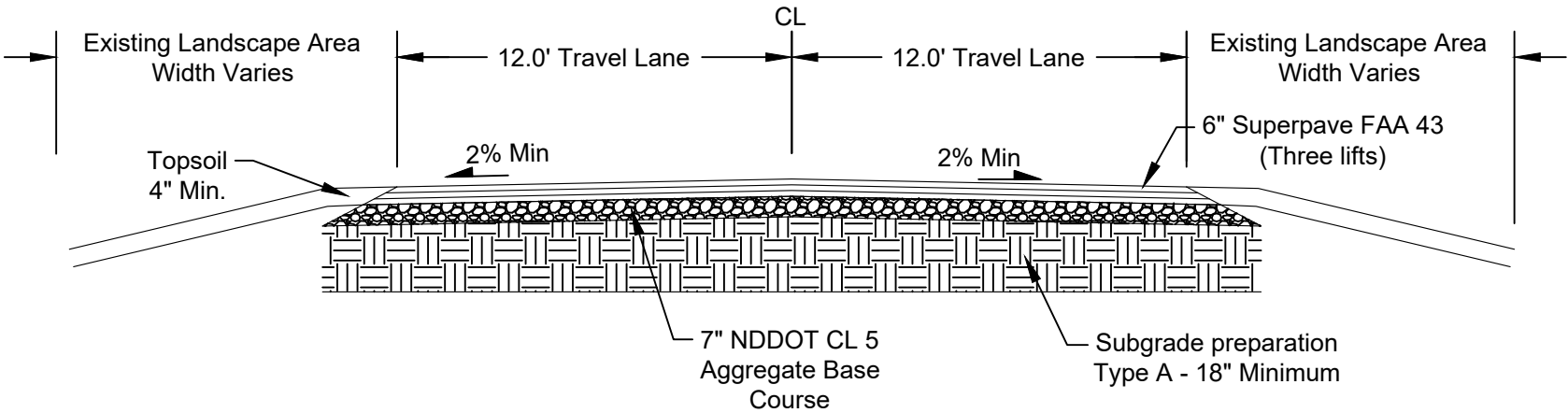
Proposed Typical Sections

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

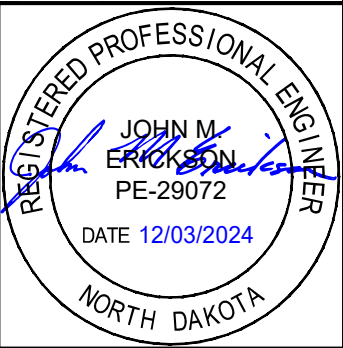
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Proposed Typical Section 1: Mainline
Sta 15+76 to Sta 43+27
Transition to Sta 43+57



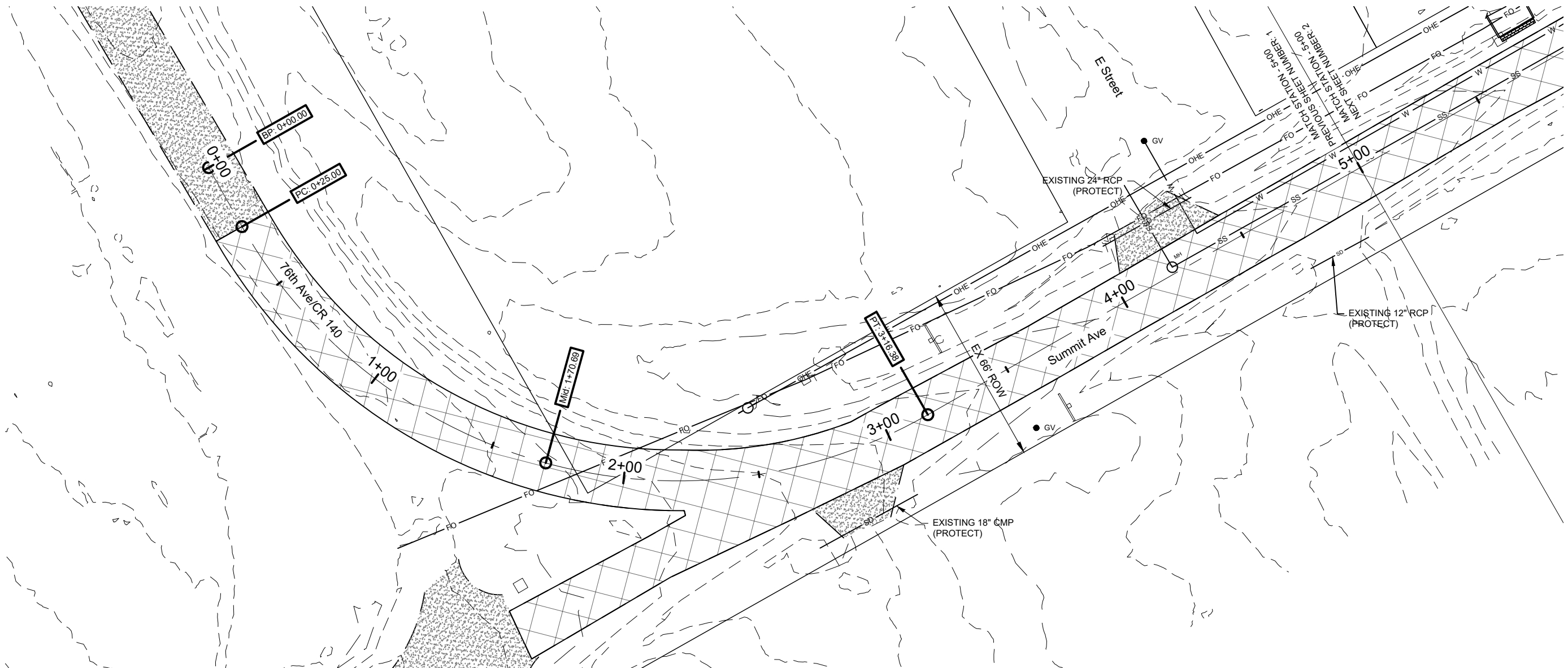
Proposed Typical Section 1: Mainline
Sta 43+57 to Sta 54+31



Proposed Typical Sections

HMA Pavement Reconstruction
Summit Avenue / CR 140
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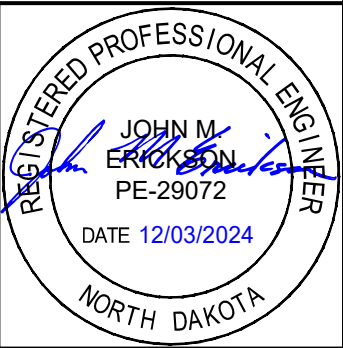
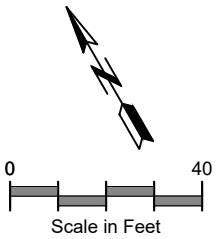
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SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 0+25 TO STA 5+00	TON	308

LEGEND

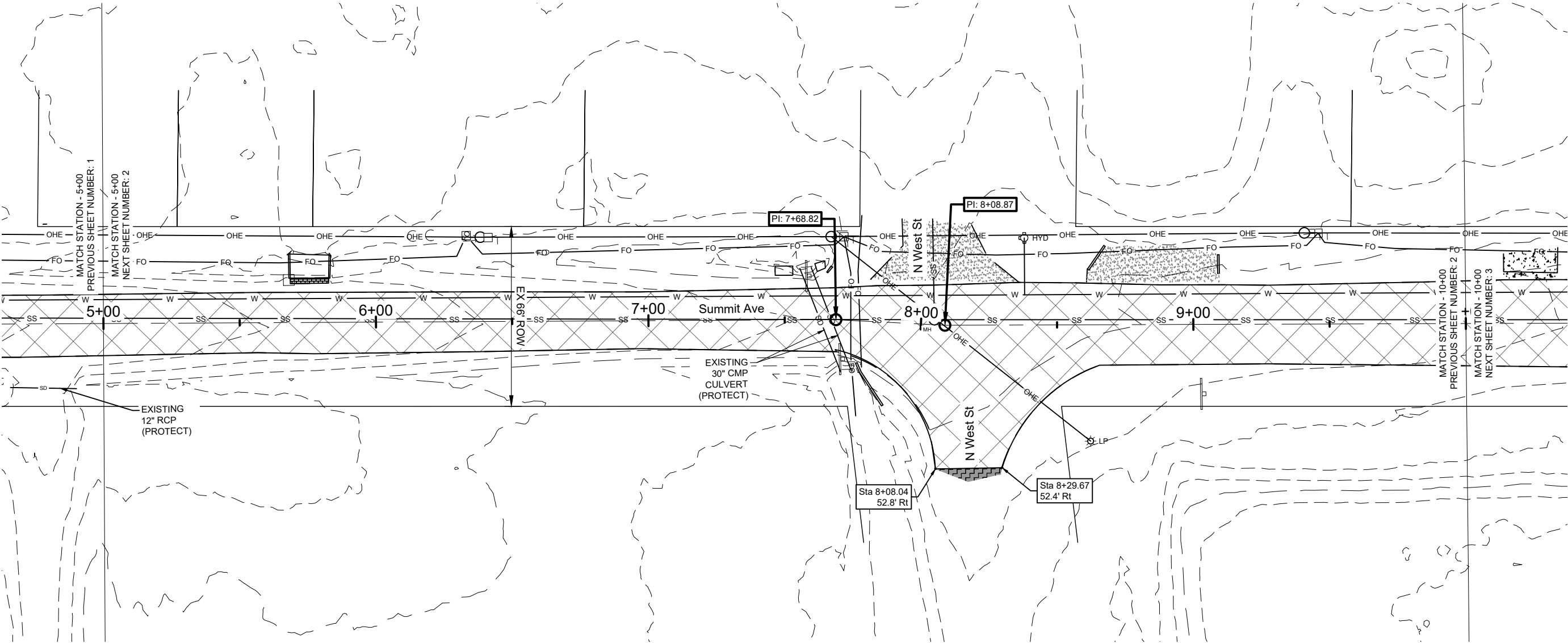
- EXISTING CONCRETE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE
- REMOVAL OF CURB & GUTTER



Removals
Sta 0+00 to Sta 5+00

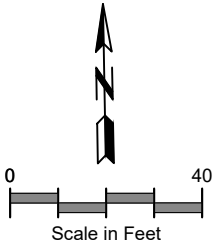
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

Revised 01/22/2025	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	2



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 5+00 TO STA 10+00	TON	355

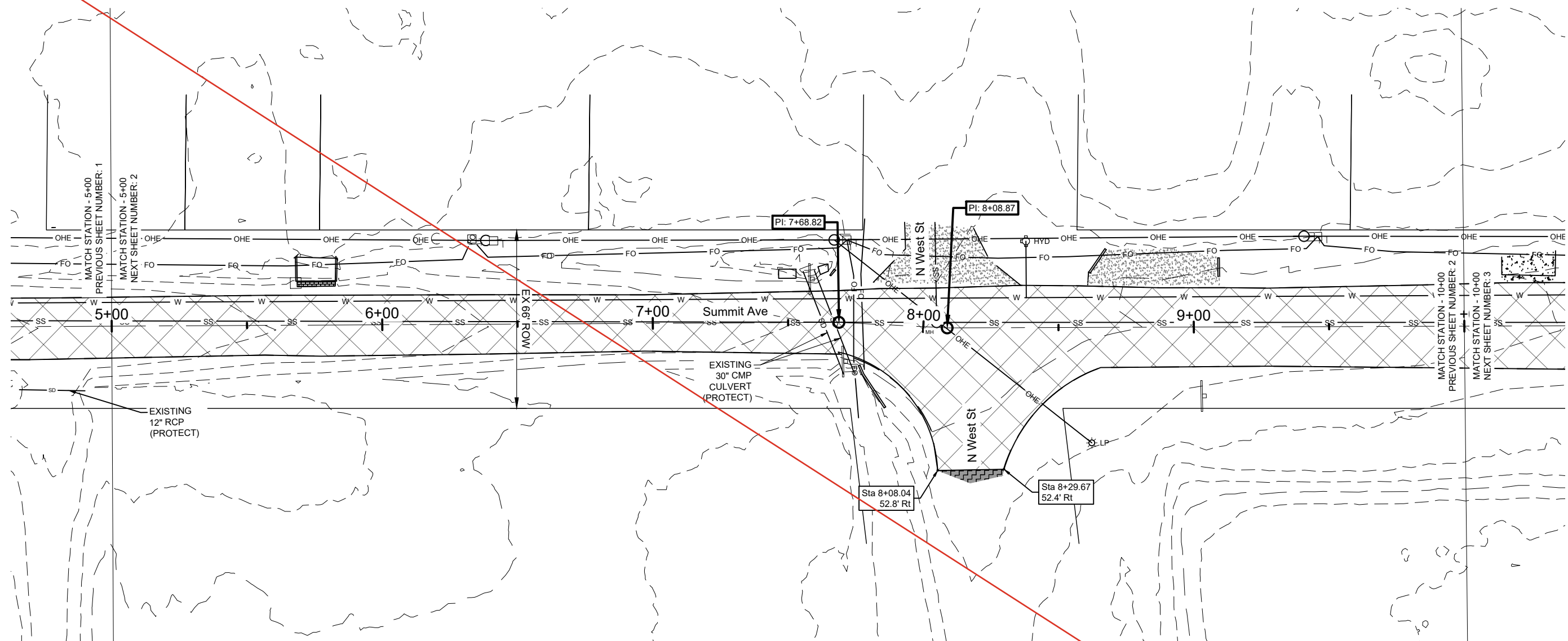
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 5+00 to Sta 10+00

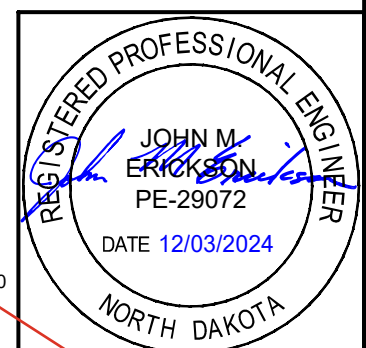
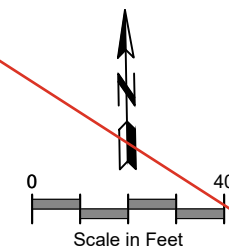
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	2



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 5+00 TO STA 10+00	TON	355
202	153	SAW BITUMINOUS SURFACING - FULL DEPTH STA 8+08.04 - 52.8' RT TO STA 8+29.67 - 52.4' RT	LF	25

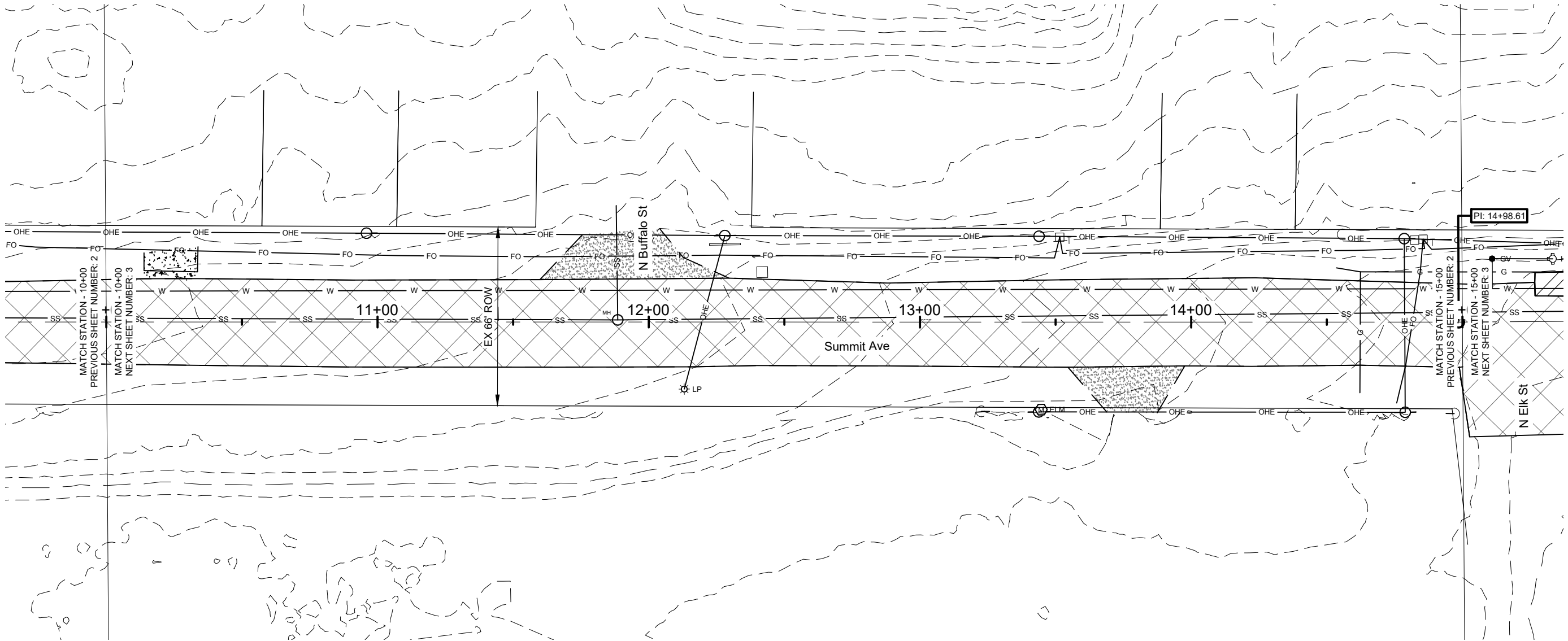
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 5+00 to Sta 10+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

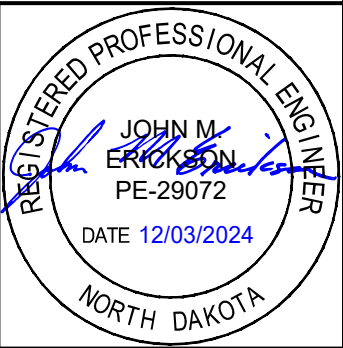
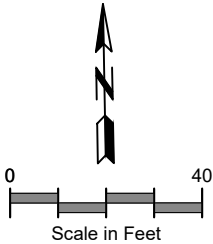
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	3



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 10+00 TO STA 15+00	TON	394

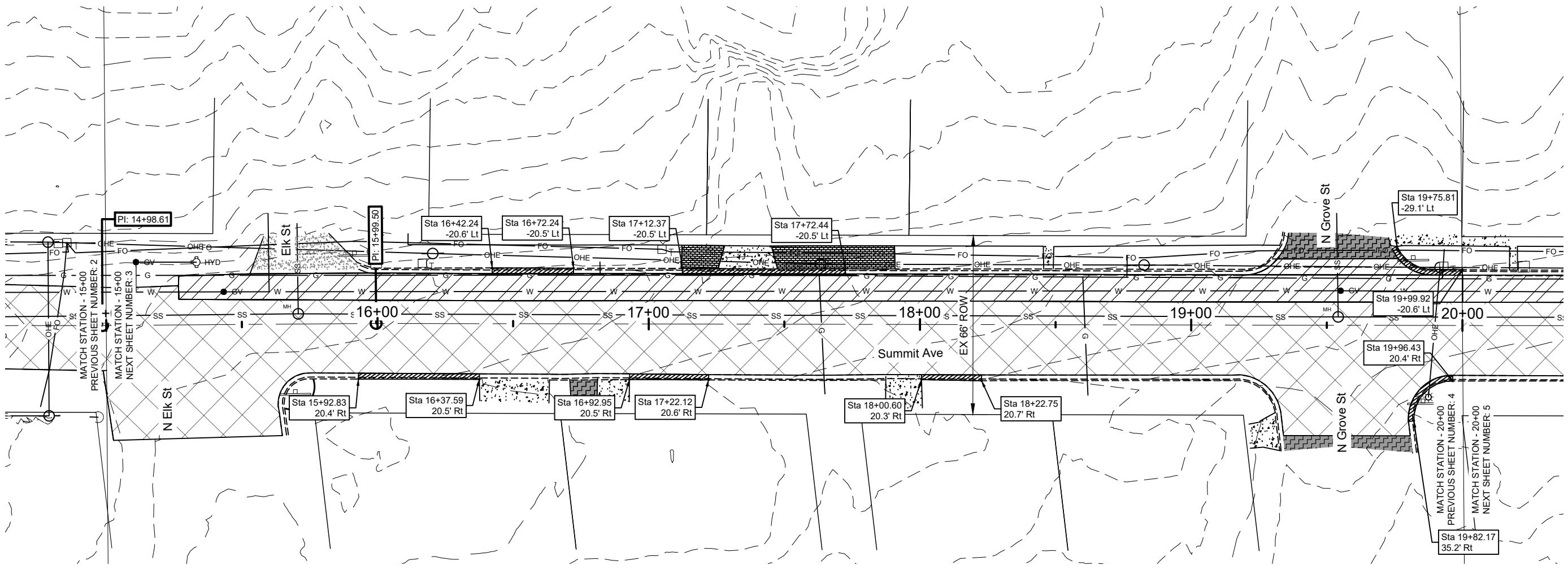
LEGEND

- EXISTING CONCRETE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE
- REMOVAL OF CURB & GUTTER



Removals
Sta 10+00 to Sta 15+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT		
		STA 15+27 TO STA 20+00	SY	556
202	130	REMOVAL OF CURB & GUTTER		
		STA 15+93 - 20.4' RT TO STA 16+38 - 20.5' RT		45
		STA 16+42 - 20.6' LT TO STA 16+72 - 20.5' LT		30
		STA 16+93 - 20.5' RT TO STA 17+22 - 20.6' RT		29
		STA 17+12 - 20.5' LT TO STA 17+72 - 20.5' LT		60
		STA 18+00 - 20.3' RT TO STA 18+23 - 20.7' RT		22
		STA 19+76 - 29.1' LT TO STA 20+00 - 20.6' LT		28
		STA 19+82 - 35.2' RT TO STA 19+96 - 20.4' RT		24
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING	TON	404
		STA 15+00 TO STA 20+00		
203	126	REMOVE AND SALVAGE TOPSOIL	SY	97

LEGEND

EXISTING CONCRETE

EXISTING ASPHALT SURFACE

EXISTING GRAVEL SURFACE

REMOVAL OF BITUMINOUS SURFACING

REMOVAL OF CONCRETE

REMOVAL OF CURB & GUTTER

0

40

Scale in Feet

REGISTERED PROFESSIONAL ENGINEER

JOHN M. ERICKSON

PE-29072

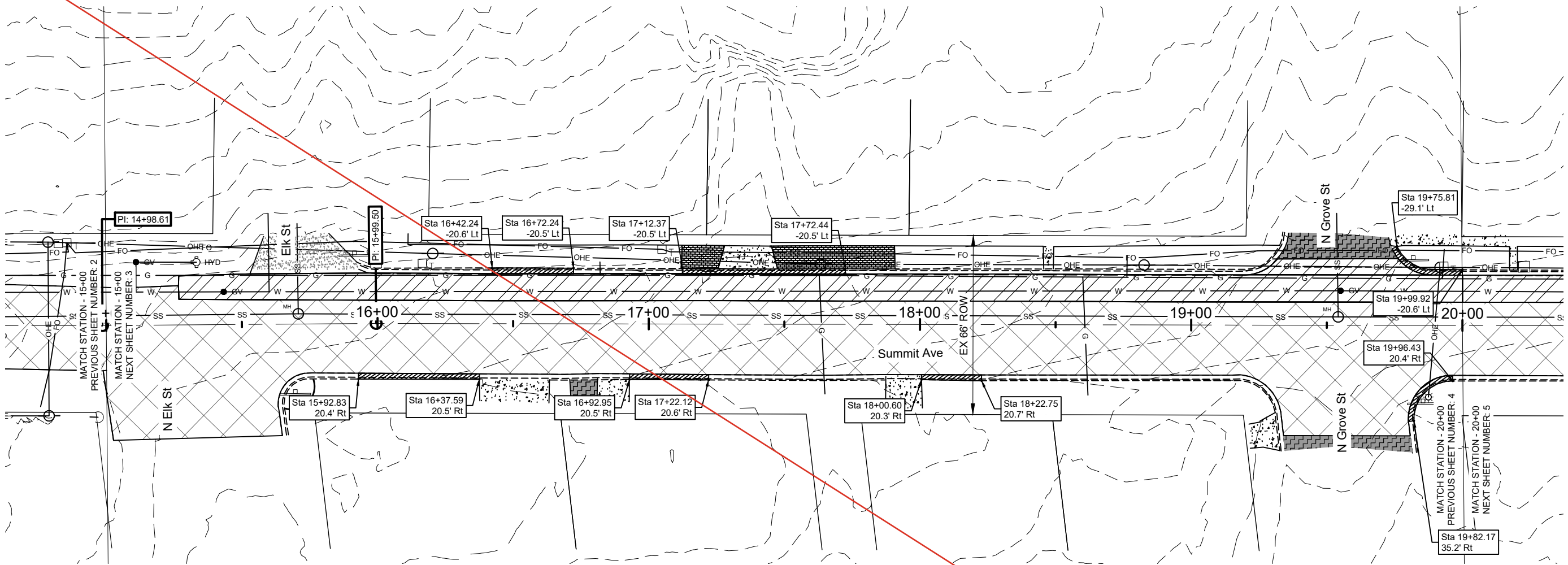
DATE 01/22/2025

NORTH DAKOTA

Removals
Sta 15+00 to Sta 20+00

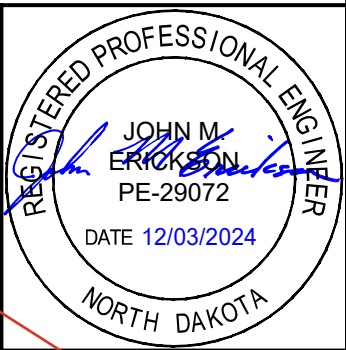
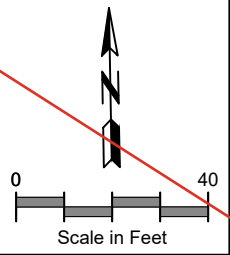
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	4



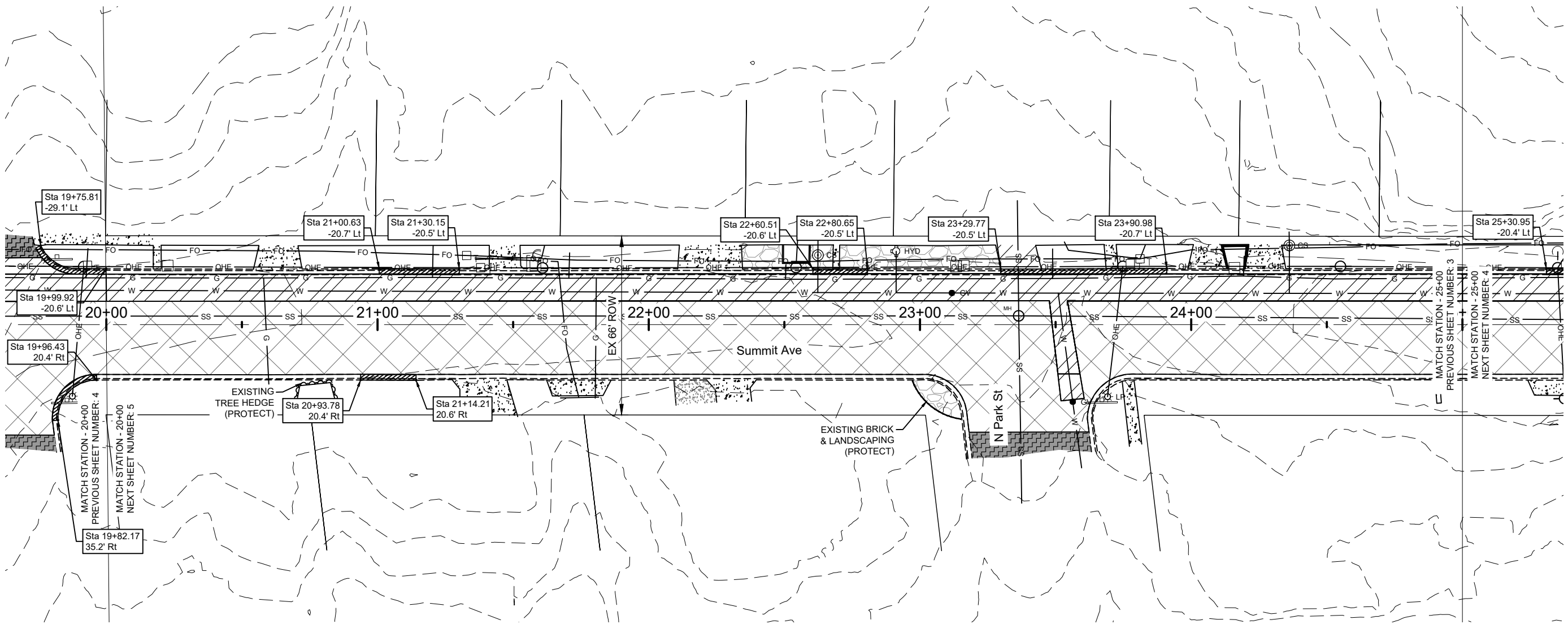
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT		
		STA 15+27 TO STA 20+00	SY	556
202	119	SAW CONCRETE	LF	45
202	130	REMOVAL OF CURB & GUTTER		
		STA 15+93 - 20.4' RT TO STA 16+38 - 20.5' RT		45
		STA 16+42 - 20.6' LT TO STA 16+72 - 20.5' LT		30
		STA 16+93 - 20.5' RT TO STA 17+22 - 20.6' RT		29
		STA 17+12 - 20.5' LT TO STA 17+72 - 20.5' LT		60
		STA 18+00 - 20.3' RT TO STA 18+23 - 20.7' RT		22
		STA 19+76 - 29.1' LT TO STA 20+00 - 20.6' LT		28
		STA 19+82 - 35.2' RT TO STA 19+96 - 20.4' RT		24
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING	TON	404
		STA 15+00 TO STA 20+00		
202	153	SAW BITUMINOUS SURFACING - FULL DEPTH	LF	110
203	126	REMOVE AND SALVAGE TOPSOIL	SY	97

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 15+00 to Sta 20+00

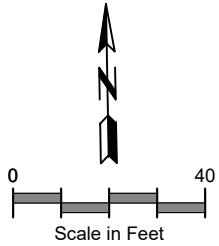
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT STA 20+00 TO STA 25+00	SY	593
202	130	REMOVAL OF CURB & GUTTER STA 20+94 - 20.4' RT TO STA 21+14 - 20.6' RT STA 21+01 - 20.7' LT TO STA 21+30 - 20.5' RT STA 22+61 - 20.6' LT TO STA 22+81 - 20.5' LT STA 23+30 - 20.5' LT TO STA 23+91 - 20.7' LT	LF	20 30 20 61
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 20+00 TO STA 25+00	TON	351
203	126	REMOVE AND SALVAGE TOPSOIL	SY	20

LEGEND

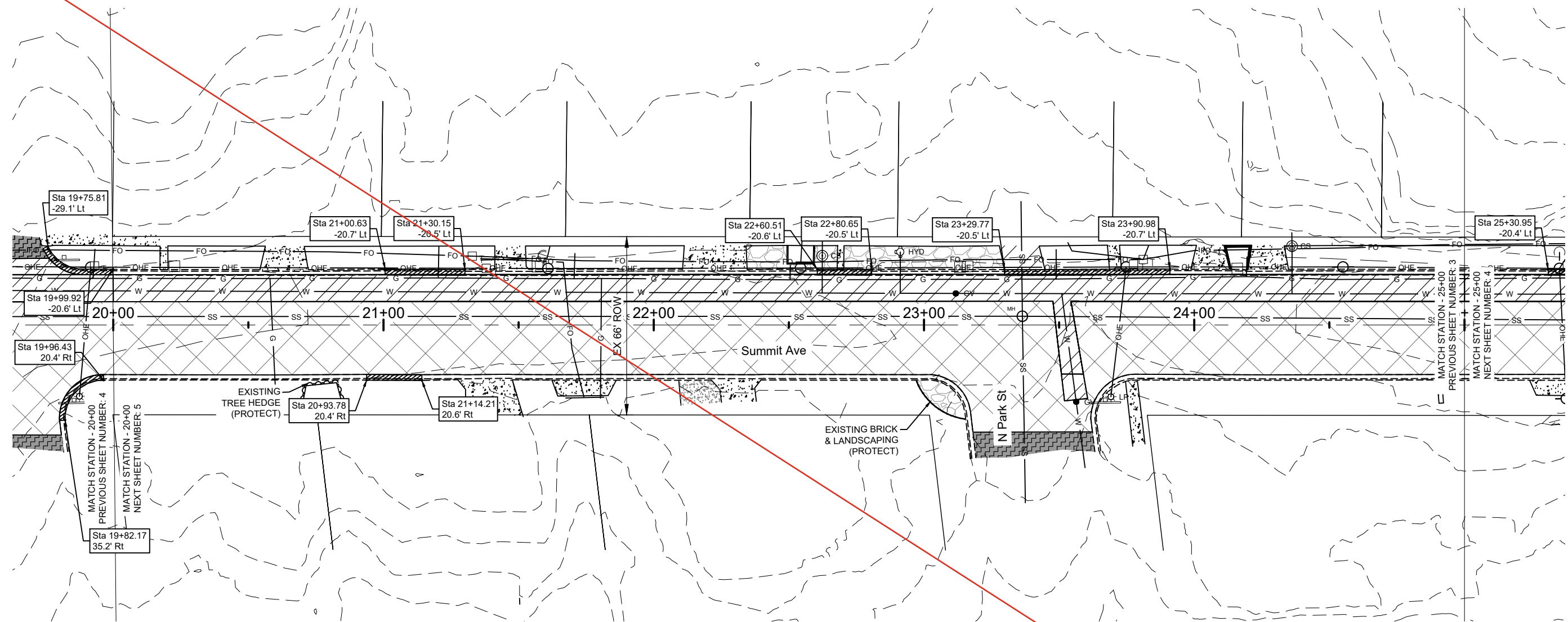
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	EXISTING LANDSCAPE ROCK
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 20+00 to Sta 25+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

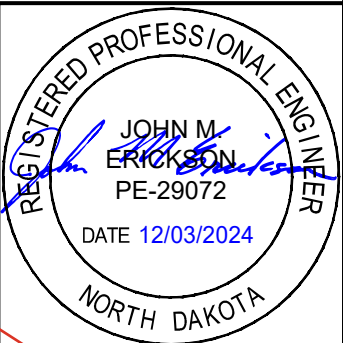
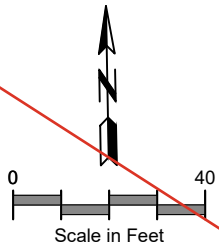
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	5



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT		
		STA 20+00 TO STA 25+00	SY	593
202	119	SAW CONCRETE	LF	8
202	130	REMOVAL OF CURB & GUTTER		
		STA 20+94 - 20.4' RT TO STA 21+14 - 20.6' RT	LF	20
		STA 21+01 - 20.7' LT TO STA 21+30 - 20.5' RT	LF	30
		STA 22+61 - 20.6' LT TO STA 22+81 - 20.5' LT	LF	20
		STA 23+30 - 20.5' LT TO STA 23+91 - 20.7' LT	LF	61
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING		
		STA 20+00 TO STA 25+00	TON	351
202	153	SAW BITUMINOUS SURFACING - FULL DEPTH	LF	44
203	126	REMOVE AND SALVAGE TOPSOIL	SY	20

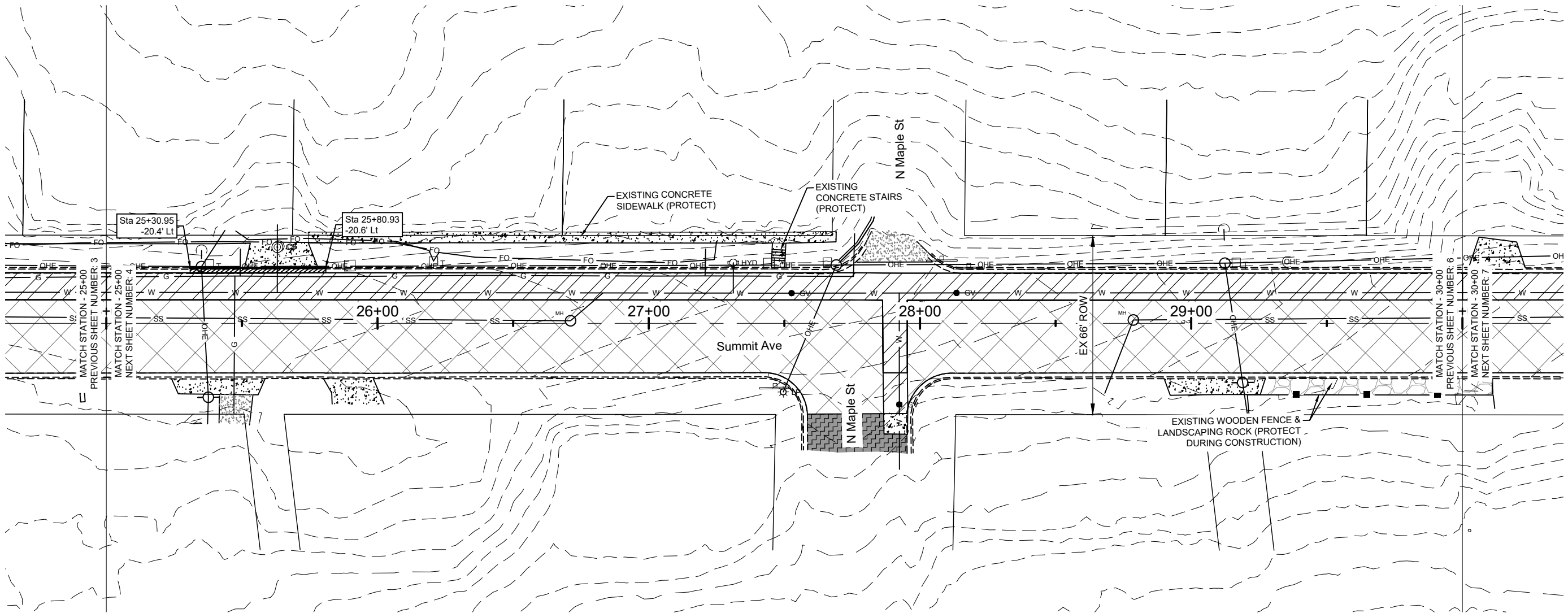
LEGEND

	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	EXISTING LANDSCAPE ROCK
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 20+00 to Sta 25+00

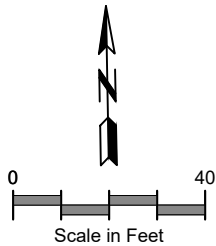
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT STA 25+00 TO STA 30+00	SY	582
202	130	REMOVAL OF CURB & GUTTER STA 25+31 - 20.4' LT TO STA 25+81 - 20.6' LT	LF	50
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 25+00 TO STA 30+00	TON	340
203	126	REMOVE AND SALVAGE TOPSOIL	SY	6

LEGEND

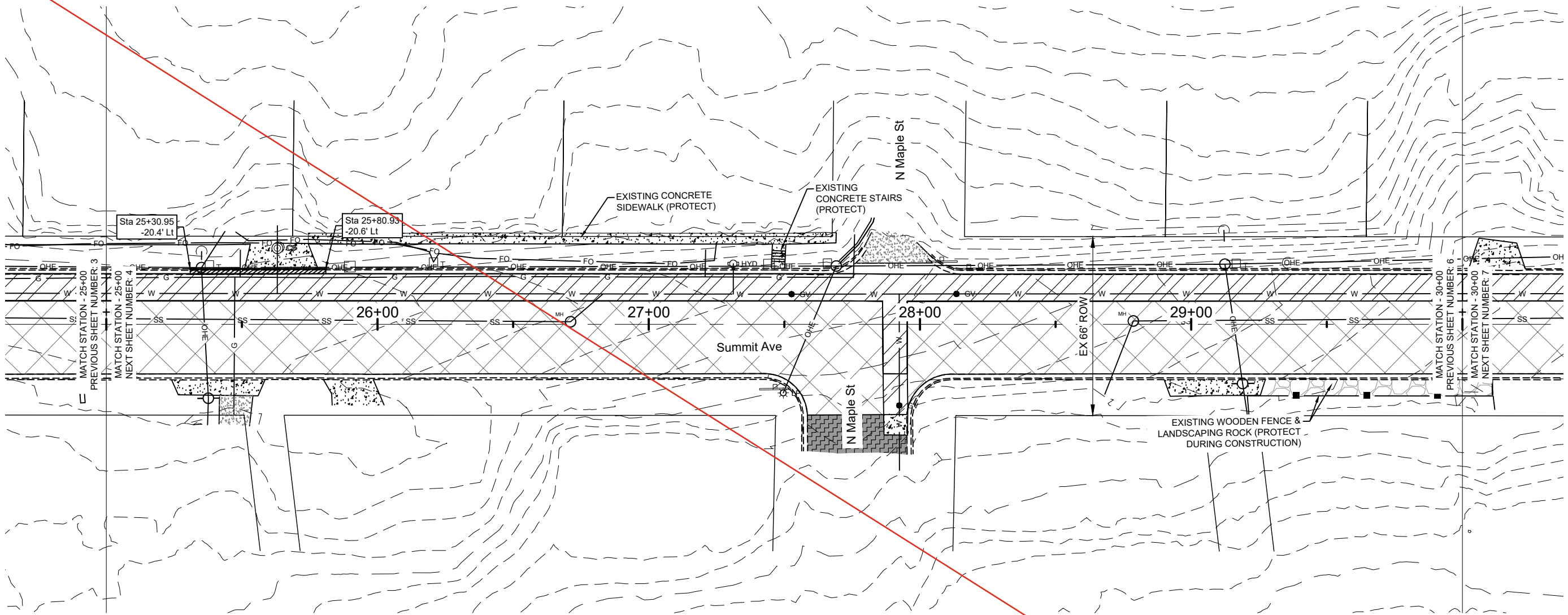
- EXISTING CONCRETE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- EXISTING LANDSCAPE ROCK
- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE
- REMOVAL OF CURB & GUTTER



Removals
Sta 25+00 to Sta 30+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

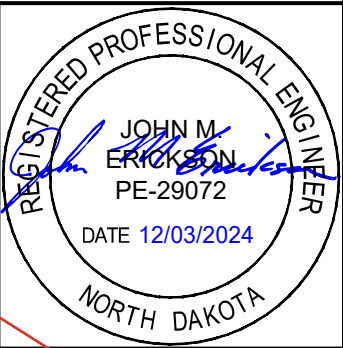
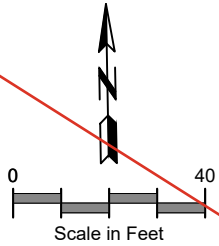
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	6



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT STA 25+00 TO STA 30+00	SY	582
202	119	SAW CONCRETE	LF	9
202	130	REMOVAL OF CURB & GUTTER STA 25+31 - 20.4' LT TO STA 25+81 - 20.6' LT	LF	50
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 25+00 TO STA 30+00	TON	340
202	153	SAW BITUMINOUS SURFACING - FULL DEPTH	LF	28
203	126	REMOVE AND SALVAGE TOPSOIL	SY	6

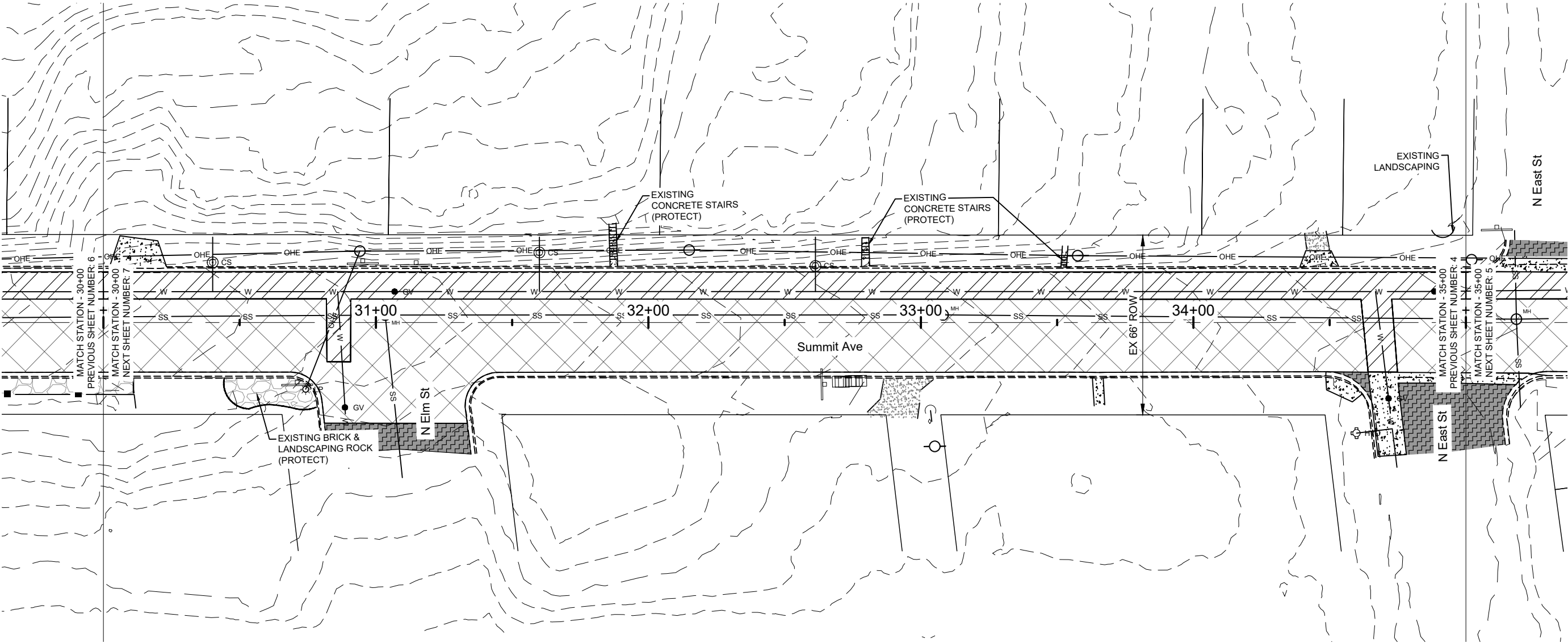
LEGEND

	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	EXISTING LANDSCAPE ROCK
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



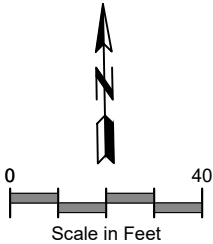
Removals
Sta 25+00 to Sta 30+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT STA 30+00 TO STA 35+00	SY	611
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 30+00 TO STA 35+00	TON	344

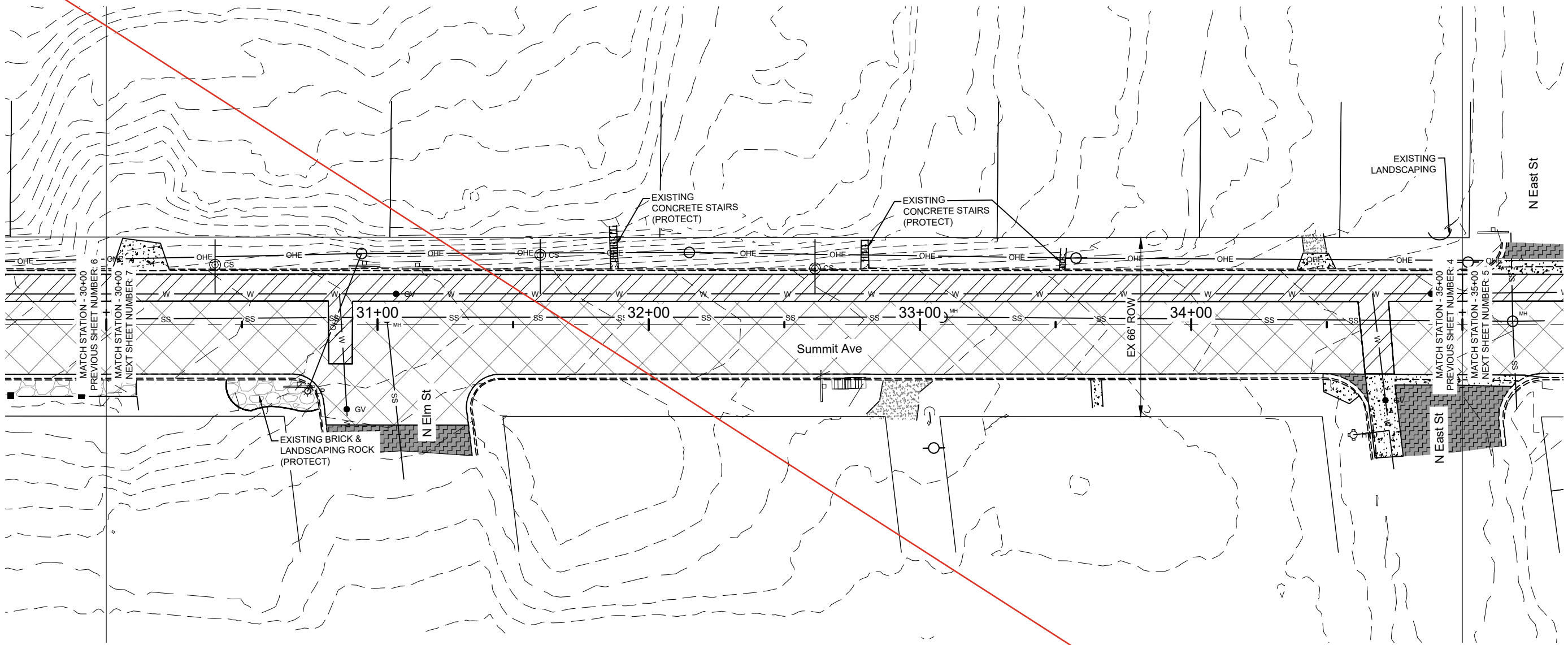
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	EXISTING LANDSCAPE ROCK
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 30+00 to Sta 35+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

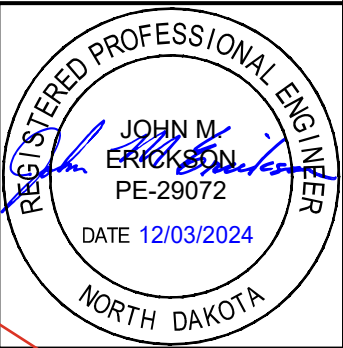
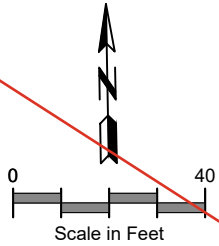
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	7



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT STA 30+00 TO STA 35+00	SY	611
202	119	SAW CONCRETE	LF	11
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 30+00 TO STA 35+00	TON	344
202	153	SAW BITUMINOUS SURFACING - FULL DEPTH	LF	52

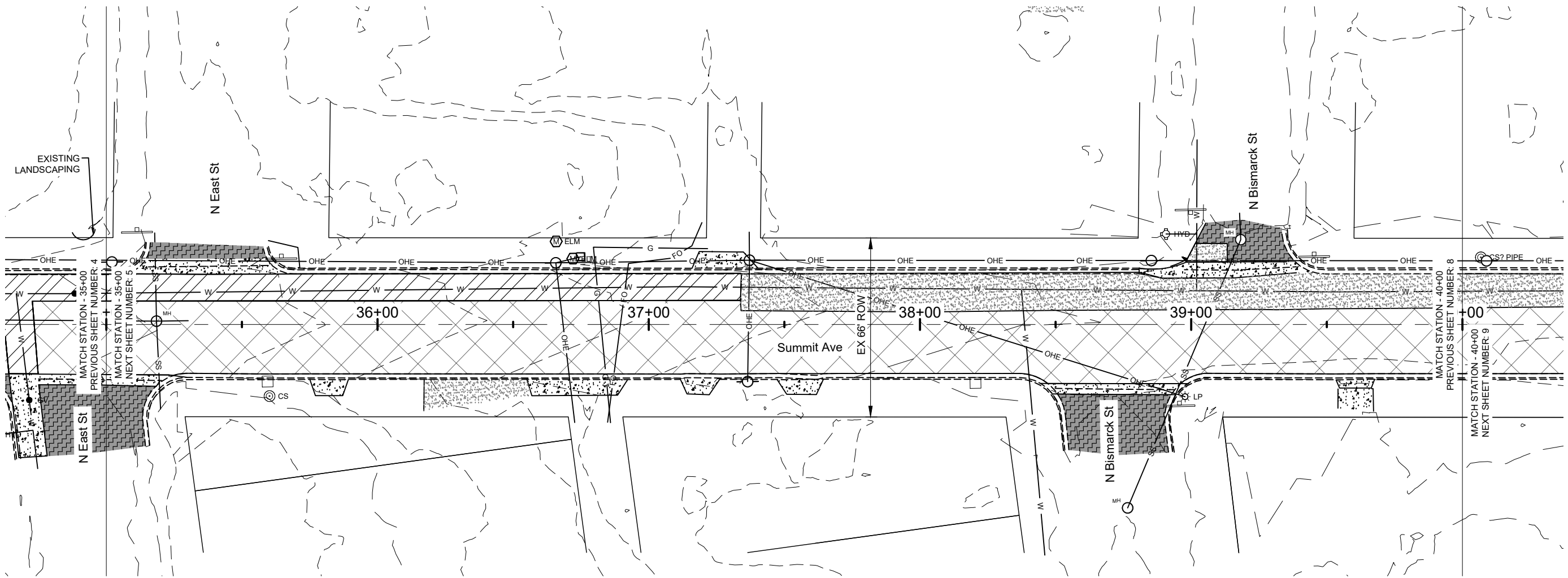
LEGEND

- EXISTING CONCRETE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- EXISTING LANDSCAPE ROCK
- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE
- REMOVAL OF CURB & GUTTER



Removals
Sta 30+00 to Sta 35+00

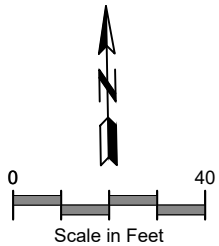
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT STA 35+00 TO STA 40+00	SY	276
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 35+00 TO STA 40+00	TON	318
203	126	REMOVE AND SALVAGE TOPSOIL	SY	34

LEGEND

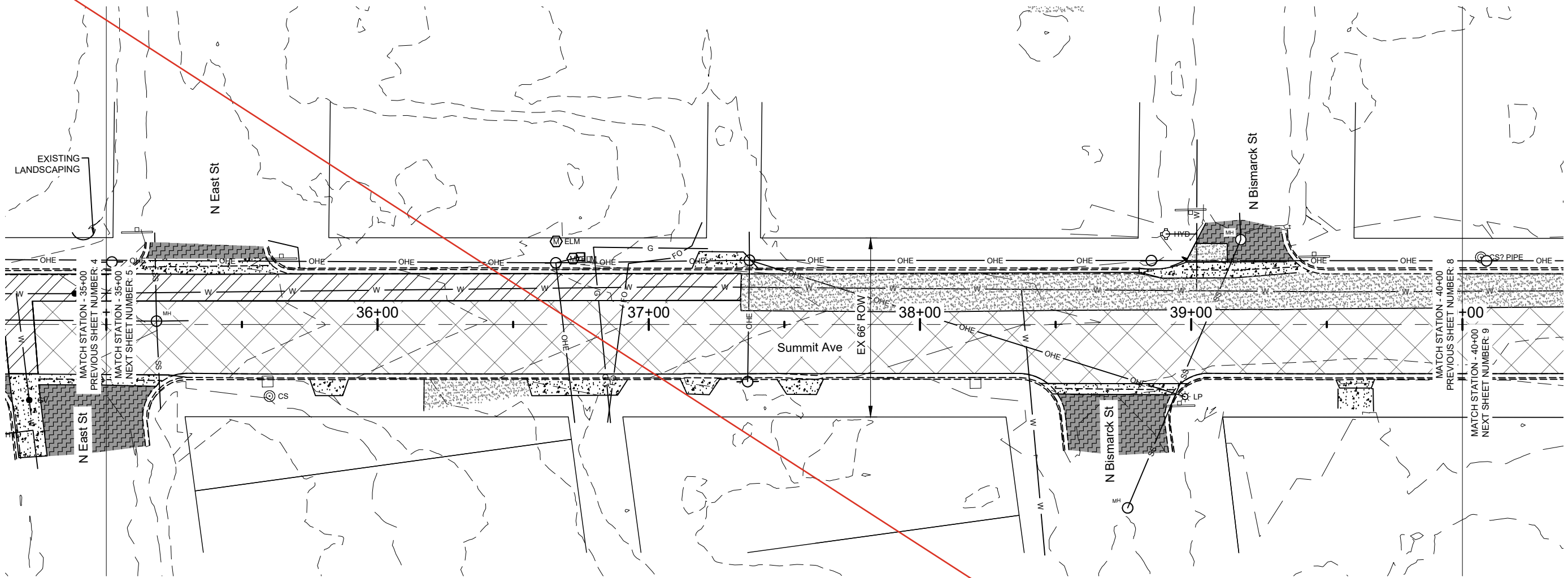
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	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 35+00 to Sta 40+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

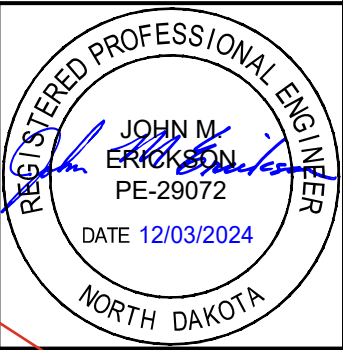
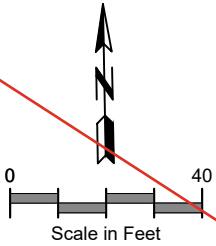
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	8



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	114	REMOVAL OF CONCRETE PAVEMENT STA 35+00 TO STA 40+00	SY	276
202	119	SAW CONCRETE	LF	10
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 35+00 TO STA 40+00	TON	318
202	153	SAW BITUMINOUS SURFACING - FULL DEPTH	LF	20
203	126	REMOVE AND SALVAGE TOPSOIL	SY	34

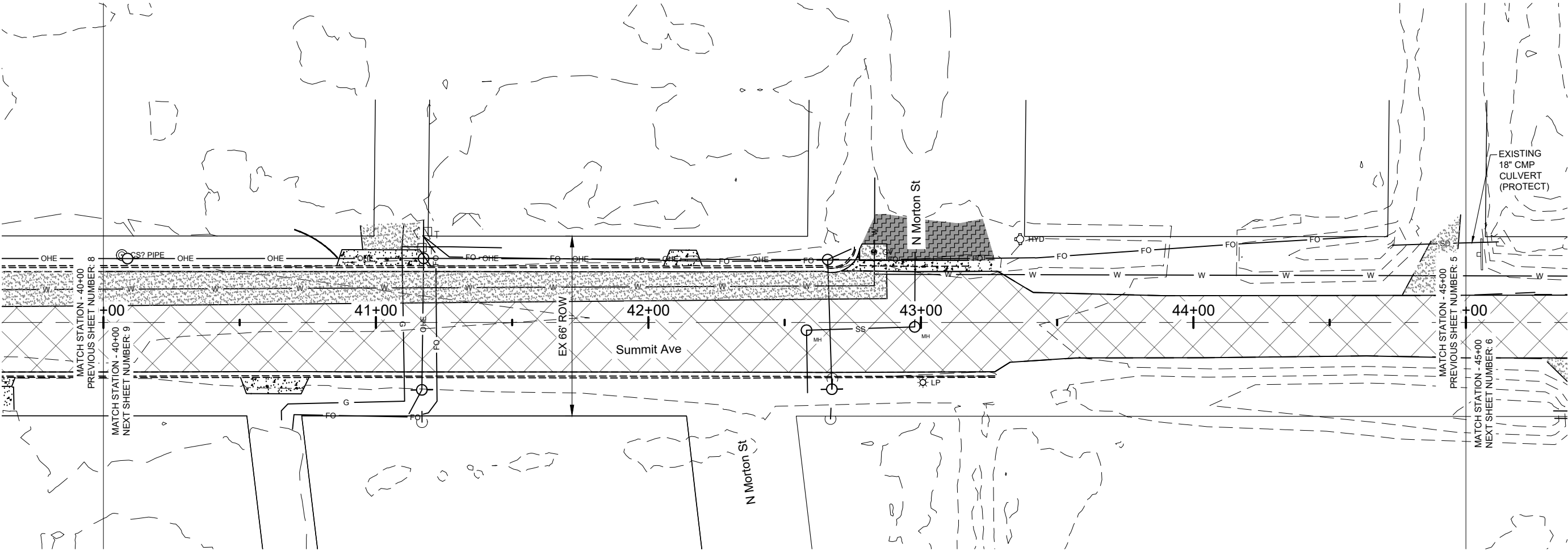
LEGEND

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	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



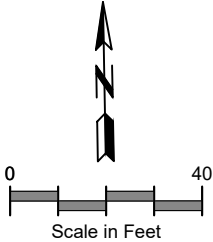
Removals
Sta 35+00 to Sta 40+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 40+00 TO STA 45+00	TON	319
203	126	REMOVE AND SALVAGE TOPSOIL	SY	25

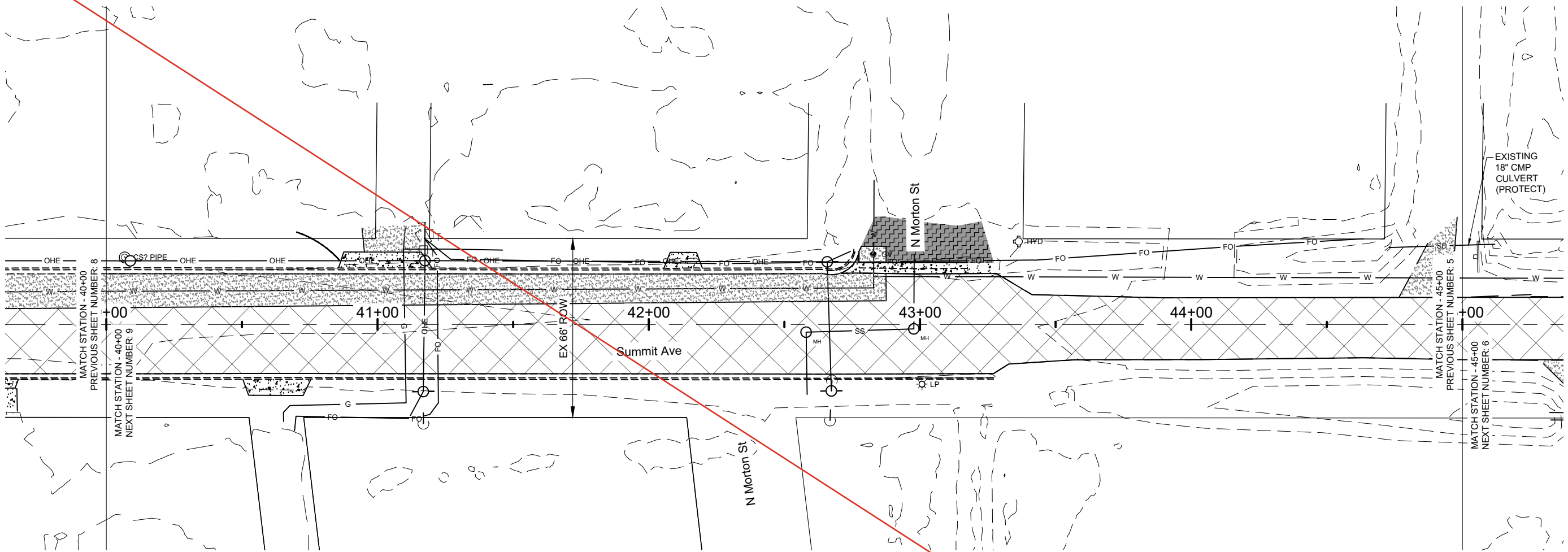
LEGEND	
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	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 40+00 to Sta 45+00

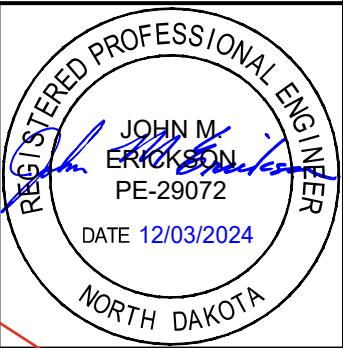
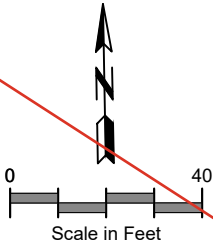
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	9



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 40+00 TO STA 45+00	TON	319
202	153	SAW BITUMINOUS SURFACING - FULL DEPTH	LF	15
203	126	REMOVE AND SALVAGE TOPSOIL	SY	25

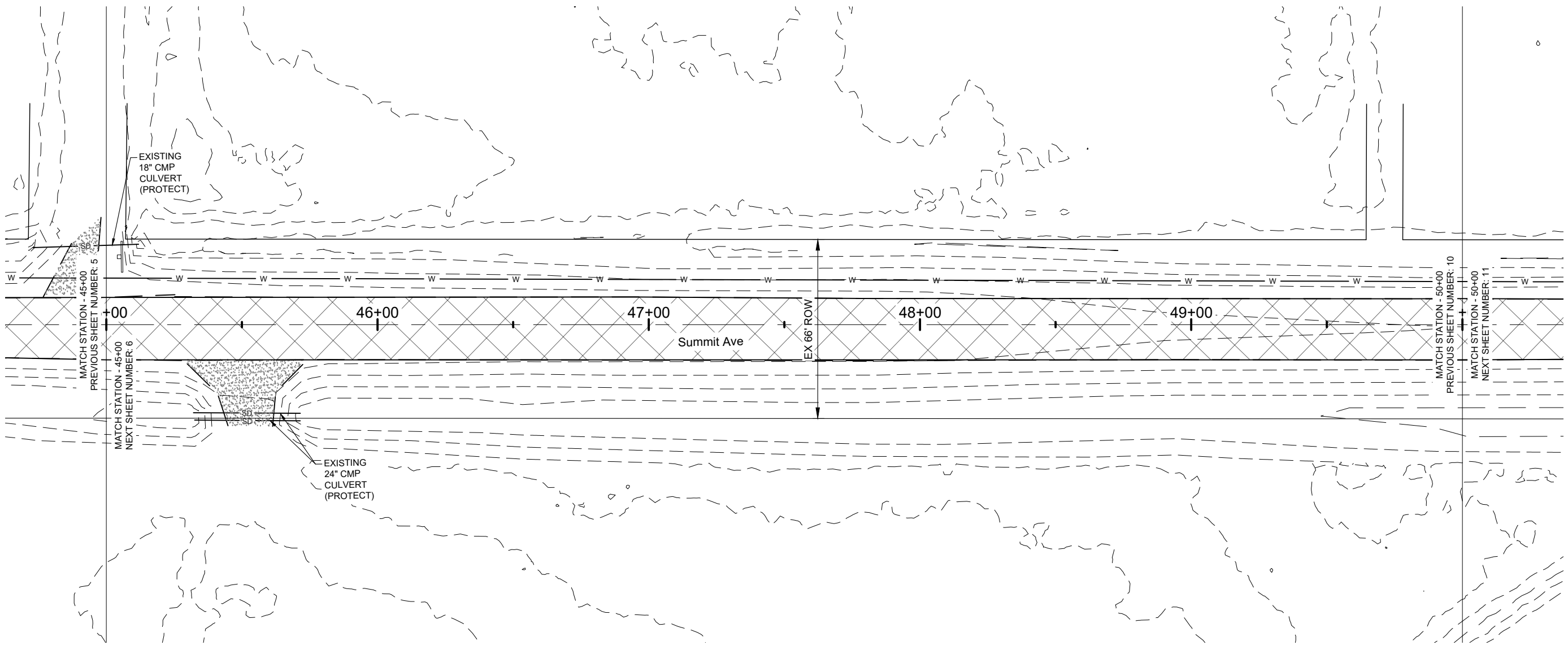
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	REMOVAL OF BITUMINOUS SURFACING
	REMOVAL OF CONCRETE
	REMOVAL OF CURB & GUTTER



Removals
Sta 40+00 to Sta 45+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

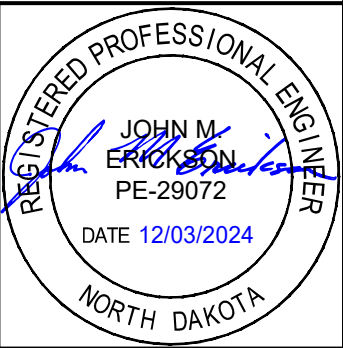
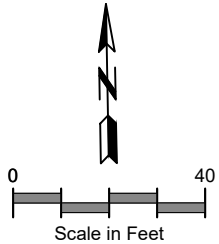
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	10



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 45+00 TO STA 50+00	TON	282

LEGEND

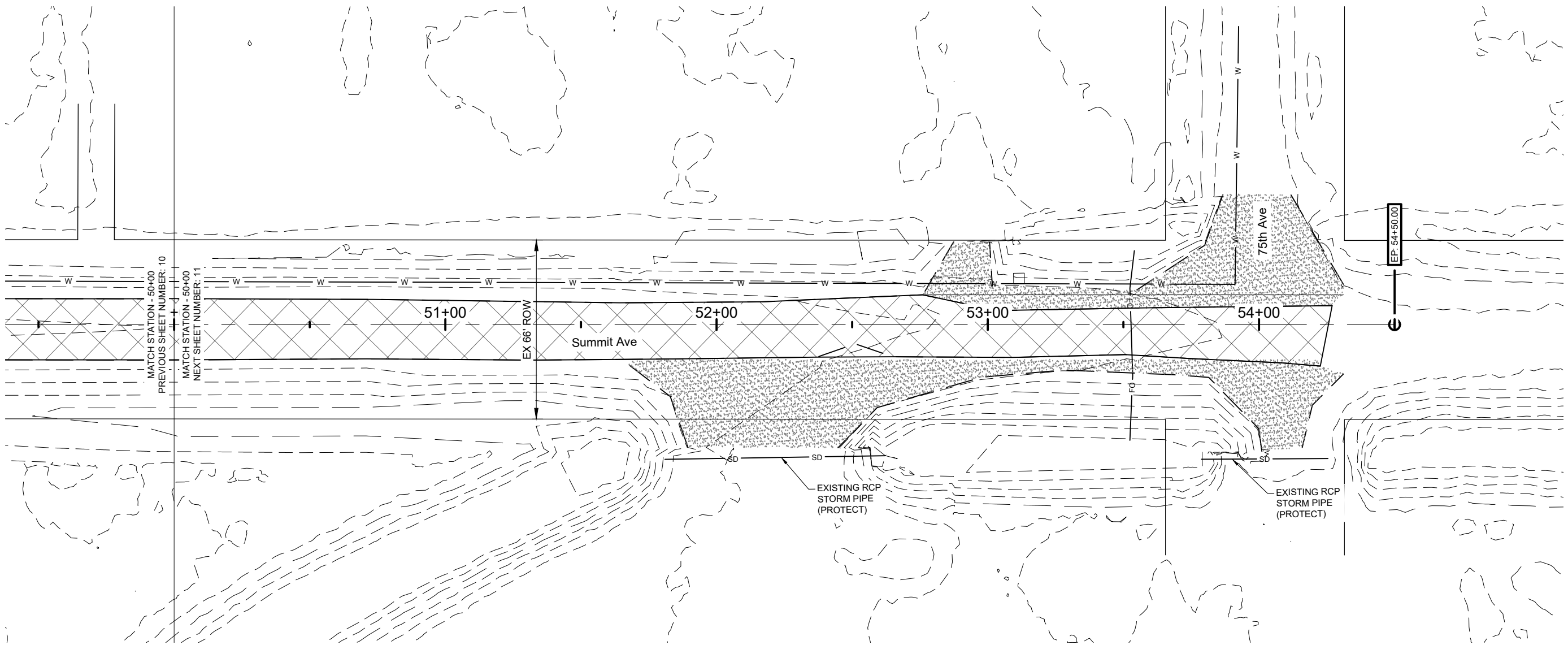
- EXISTING CONCRETE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE
- REMOVAL OF CURB & GUTTER



Removals
Sta 45+00 to Sta 50+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

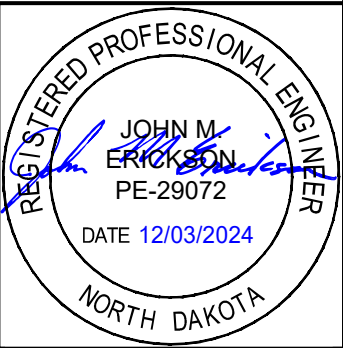
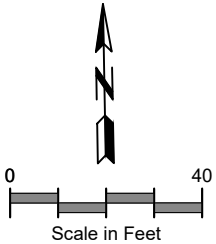
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	40	11



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
202	135	MILL & REMOVAL OF BITUMINOUS SURFACING STA 50+00 TO STA 54+31	TON	217

LEGEND

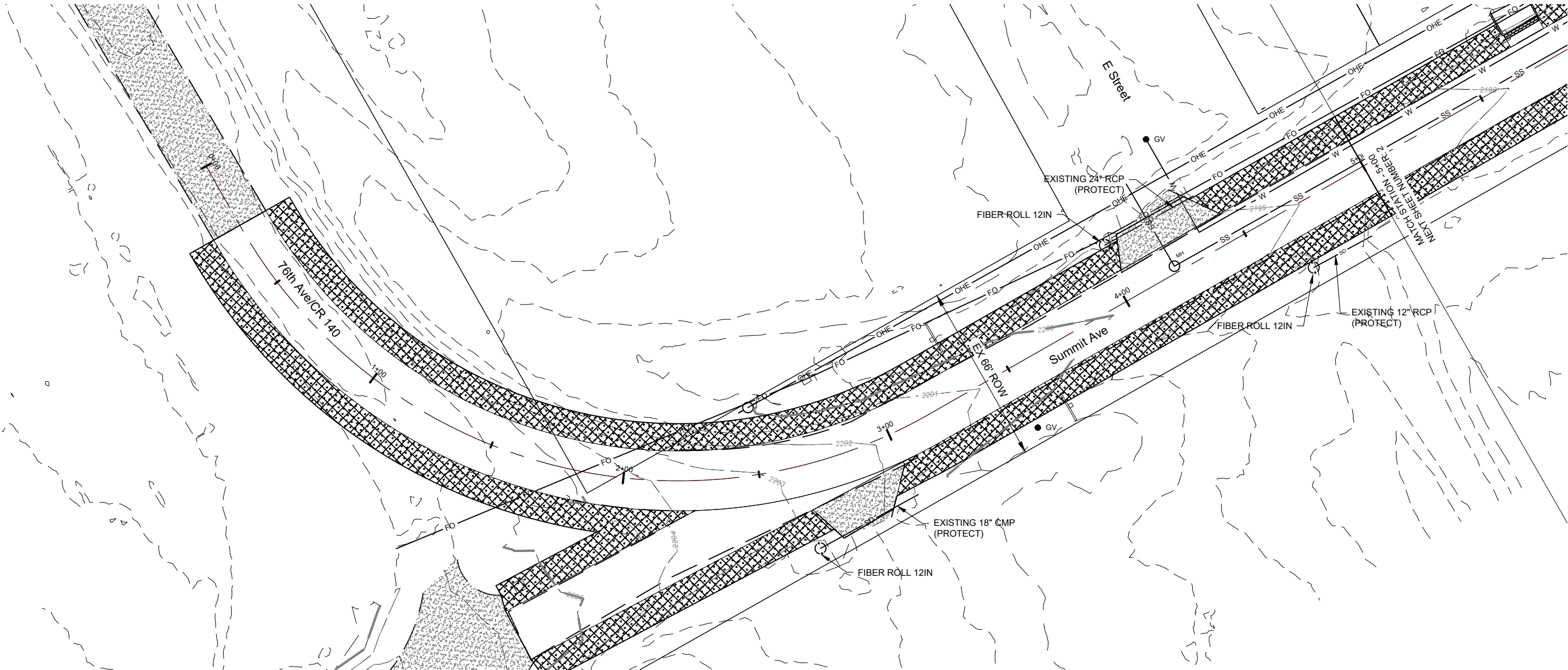
- EXISTING CONCRETE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE
- REMOVAL OF CURB & GUTTER



Removals
Sta 50+00 to Sta 54+50

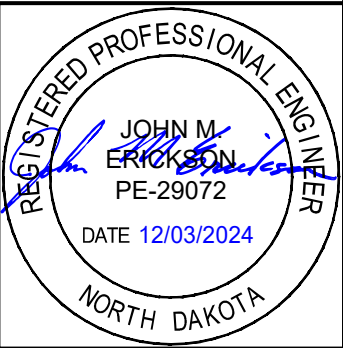
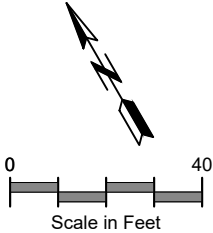
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	77	1



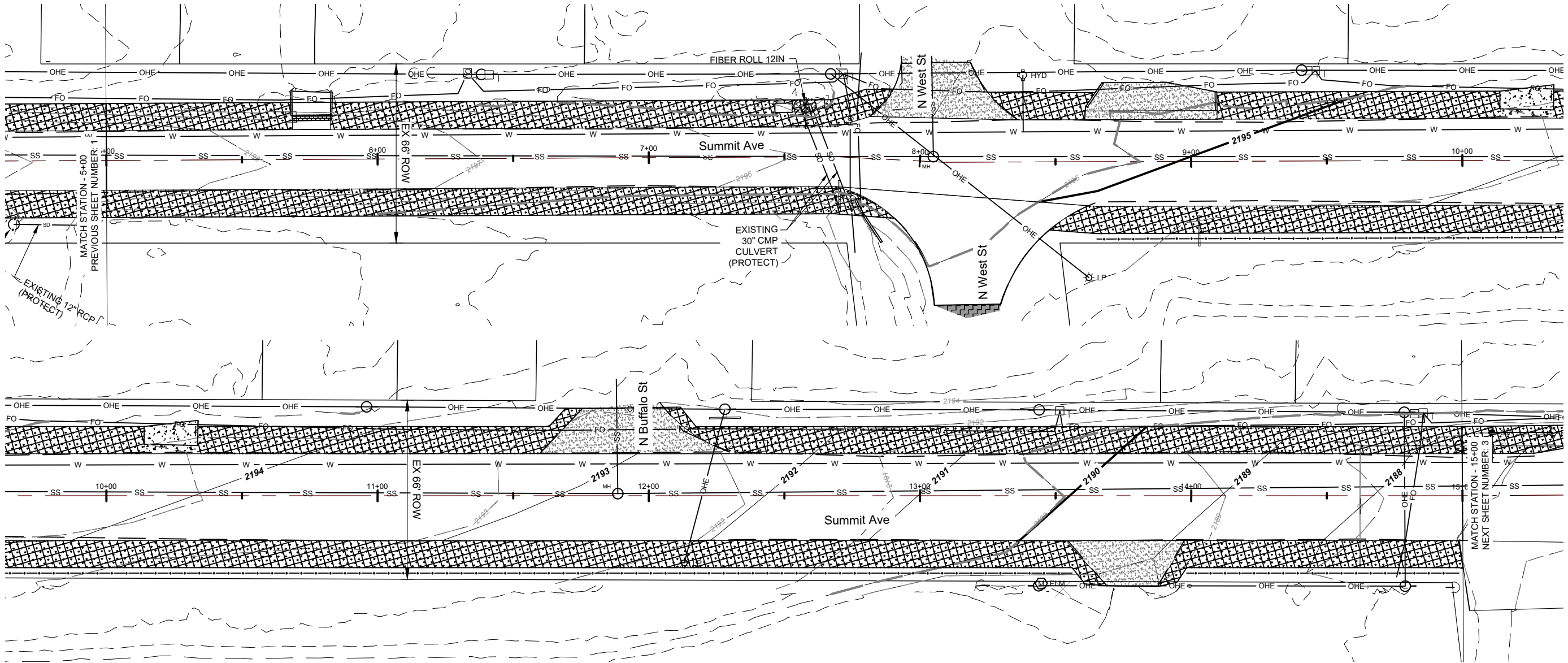
SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
251	200	SEEDING CLASS II		
		STA 0+25 TO STA 5+00	ACRE	0.23
253	201	HYDRAULIC MULCH		
		STA 0+25 TO STA 5+00	ACRE	0.23
261	112	FIBER ROLLS 12IN		
		STA 0+25 TO STA 5+00	LF	40

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	FIBER ROLLS 12IN
	HYDRAULIC MULCH AND SEEDING - CLASS II



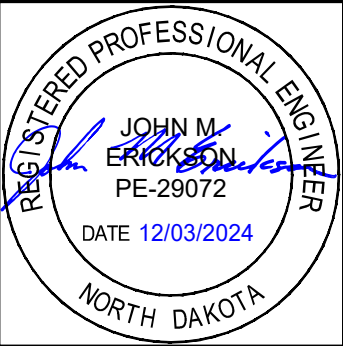
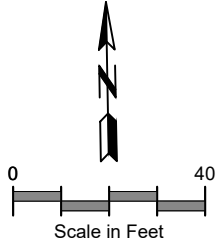
Permanent Erosion Control
Sta 0+00 to Sta 5+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



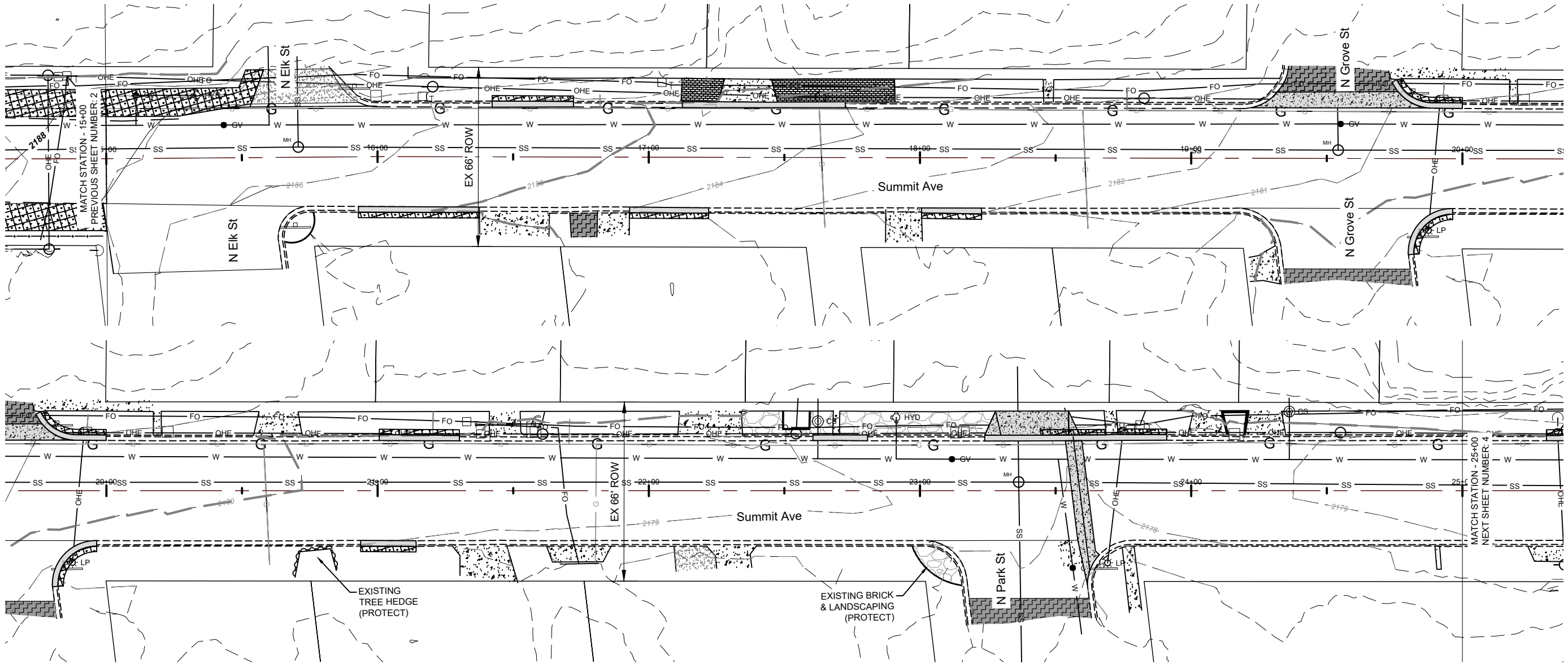
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251	200	SEEDING CLASS II		
		STA 5+00 TO STA 15+00	ACRE	0.40
253	201	HYDRAULIC MULCH		
		STA 5+00 TO STA 15+00	ACRE	0.40
261	112	FIBER ROLLS 12IN		
		STA 5+00 TO STA 15+00	LF	640

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	FIBER ROLLS 12IN
	HYDRAULIC MULCH AND SEEDING - CLASS II



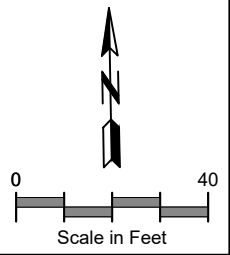
Permanent Erosion Control
Sta 5+00 to Sta 15+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



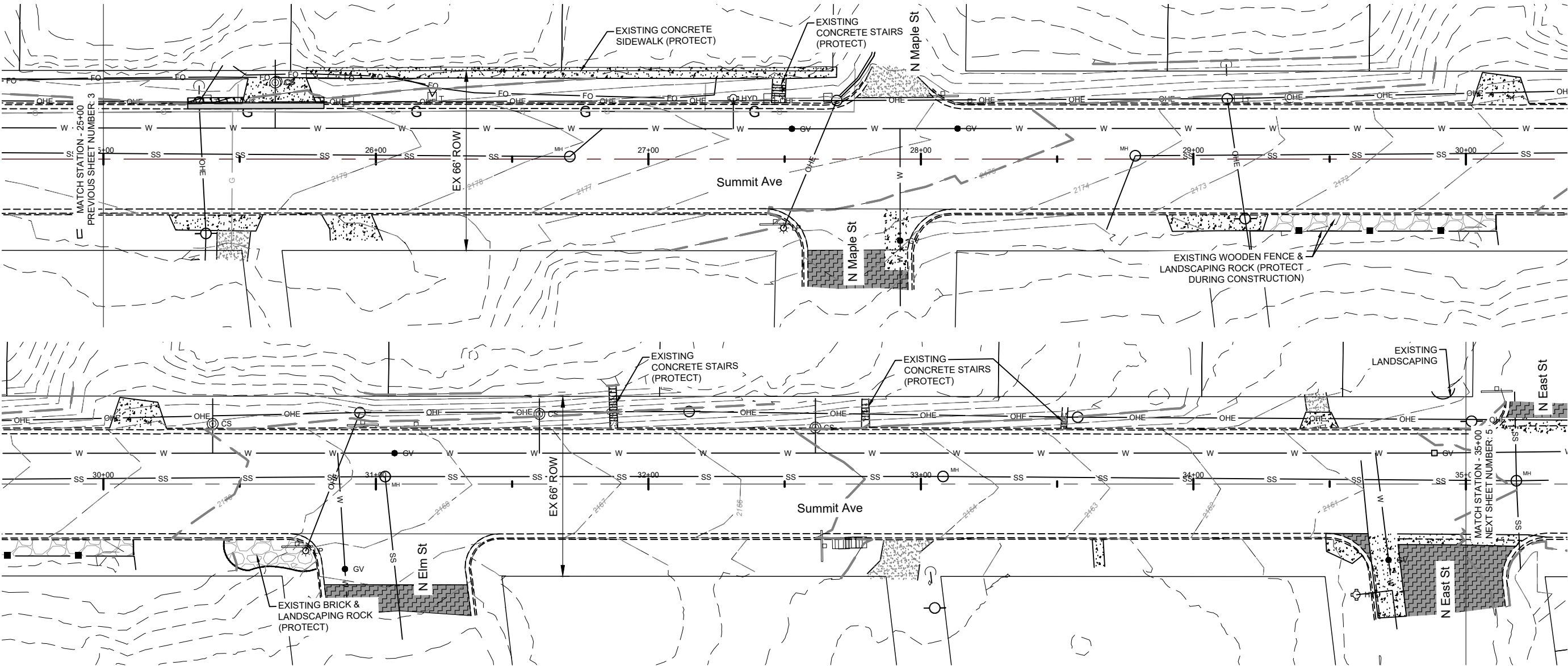
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251	200	SEEDING CLASS II STA 15+00 TO STA 20+00	ACRE	0.024
253	201	HYDRAULIC MULCH STA 15+00 TO STA 20+00	ACRE	0.024

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	HYDRAULIC MULCH AND SEEDING - CLASS II



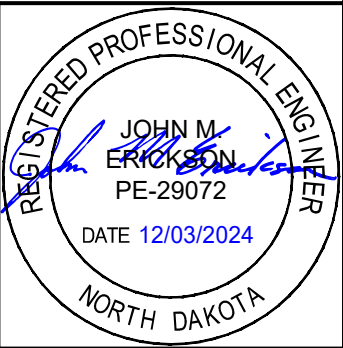
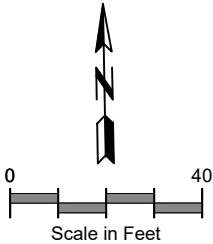
Permanent Erosion Control
Sta 15+00 to Sta 25+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



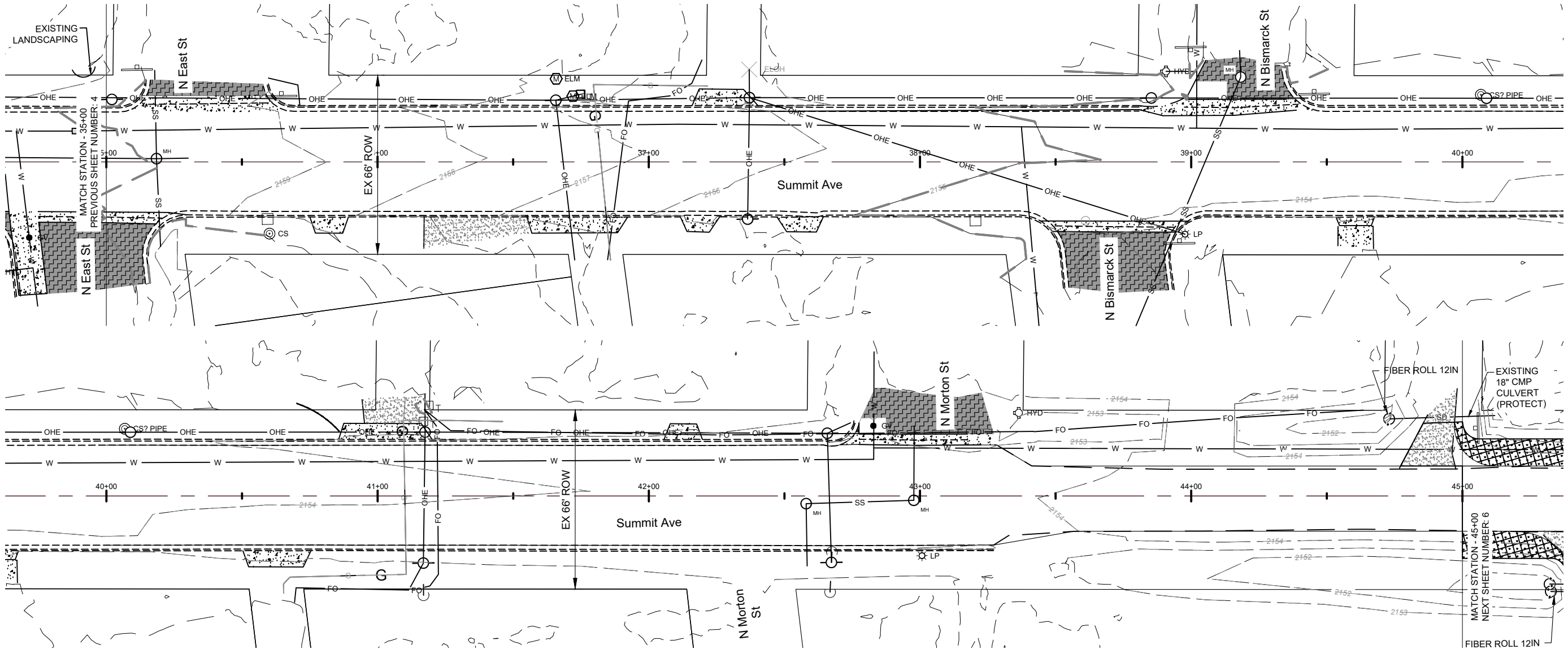
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251	200	SEEDING CLASS II STA 25+00 TO STA 30+00	ACRE	0.001
253	201	HYDRAULIC MULCH STA 25+00 TO STA 30+00	ACRE	0.001

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	HYDRAULIC MULCH AND SEEDING - CLASS II



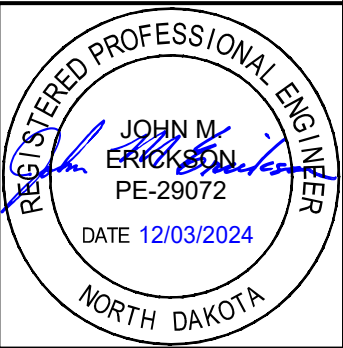
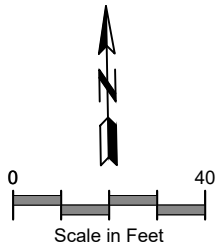
Permanent Erosion Control
Sta 25+00 to Sta 35+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



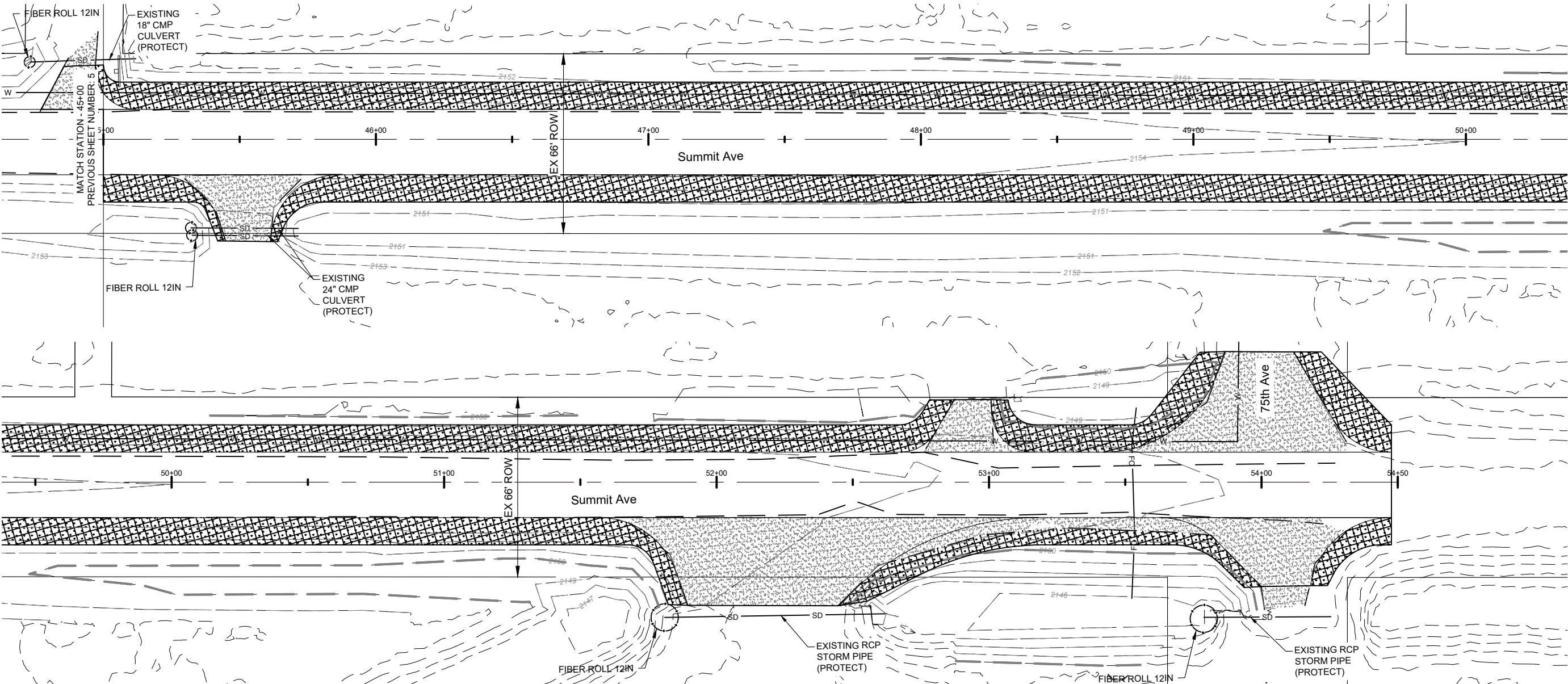
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251	200	SEEDING CLASS II STA 35+00 TO STA 40+00	ACRE	0.014
253	201	HYDRAULIC MULCH STA 35+00 TO STA 40+00	ACRE	0.014
261	112	FIBER ROLLS 12IN STA 35+00 TO STA 40+00	LF	20

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	FIBER ROLLS 12IN
	HYDRAULIC MULCH AND SEEDING - CLASS II



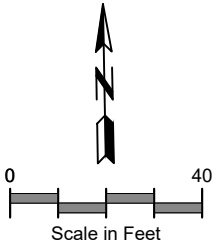
Permanent Erosion Control
Sta 35+00 to Sta 45+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
251	200	SEEDING CLASS II		
		STA 45+00 TO STA 50+00	ACRE	0.39
253	201	HYDRAULIC MULCH		
		STA 45+00 TO STA 50+00	ACRE	0.39
261	112	FIBER ROLLS 12IN		
		STA 45+00 TO STA 50+00	LF	100

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	FIBER ROLLS 12IN
	HYDRAULIC MULCH AND SEEDING - CLASS II



Permanent Erosion Control
Sta 45+00 to Sta 54+50

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

SURVEY COORDINATE AND CURVE DATA										
HORIZONTAL ALIGNMENT				CURVE DATA	SURVEY CONTROL POINTS					
Point	Station	Northing ⁽¹⁾	Easting ⁽¹⁾	Arc Definition	Point	Northing	Easting	Elevation	Station	Offset
BP	0+00	455994.1336	1579873.2351	C1	1	456156.56	1582492.28	2211.99	27+46.7	411.9' LT
PC	0+25.00	455969.1368	1579872.8395	R = 185.00'	2	N/A	N/A	2128.15		
PT	3+16.38	455781.2215	1580055.6757	Δ = 90°14'38"						
PI	7+68.82	455775.9865	1580508.0785	LC = 262.19'						
PI	8+08.87	455773.2735	1580548.0342	L = 291.38'						
PI	14+98.61	455764.0067	1581237.7170							
PI	15+99.50	455763.3407	1581338.6015							
EP	54+50.00	455700.9452	1585188.5989							

⁽¹⁾ Grid Coordinates, International Feet

Horizontal Survey Datum:

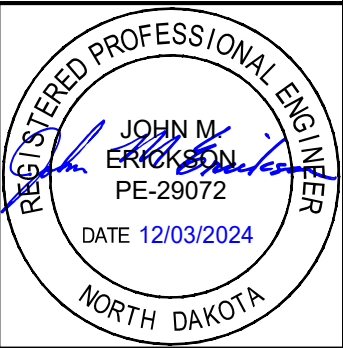
North Dakota State Plane Coordinate System, South Zone
North American Datum of 1983, "NAD83"
Grid Coordinates, International Feet
Morton County Combination Factor (cf) = 0.9998485

Vertical Datum:

NAVD88

Project Survey Control Description:

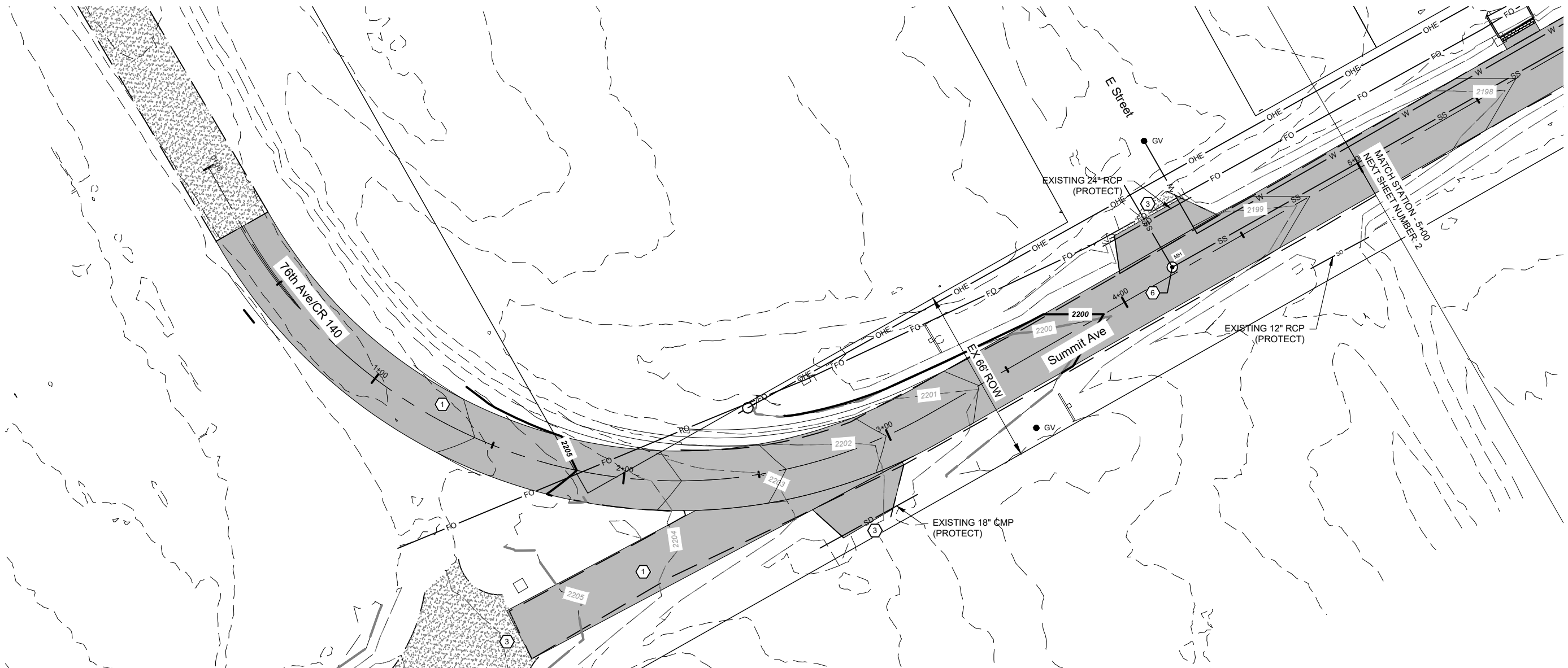
CP1: CP OPUS
CP2: Vertical Control Only
NGS Monument
Designation - Y 490
PID - RR0620
USGS Quad - Glen Ullin NW (2018)



Survey Coordinate and Curve Data

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

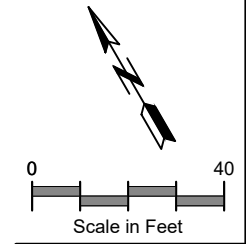
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	90	1



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 0+25 TO STA 5+00	CY	370
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 0+25 TO STA 5+00	SY	1494
302	120	AGGREGATE BASE COURSE CL 5 STA 0+25 TO STA 5+00	TON	537
302	0356	AGGREGATE SURFACE COURSE CL 13 STA 0+25 TO STA 5+00	TON	15
430	43	SUPERPAVE FAA 43 STA 0+25 TO STA 5+00	TON	498
430	5803	PG 58S-28 ASPHALT CEMENT STA 0+25 TO STA 5+00	TON	30
722	6200	ADJUST MANHOLE STA 4+22 2.5' LT	EA	1

- CONSTRUCTION NOTES**
- 1 REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
 - 3 RESTORE GRAVEL SURFACE ALONG EDGE OF NEW PAVEMENT.
 - 6 ADJUST SANITARY SEWER MANHOLE CASTING TO FINISHED GRADE.

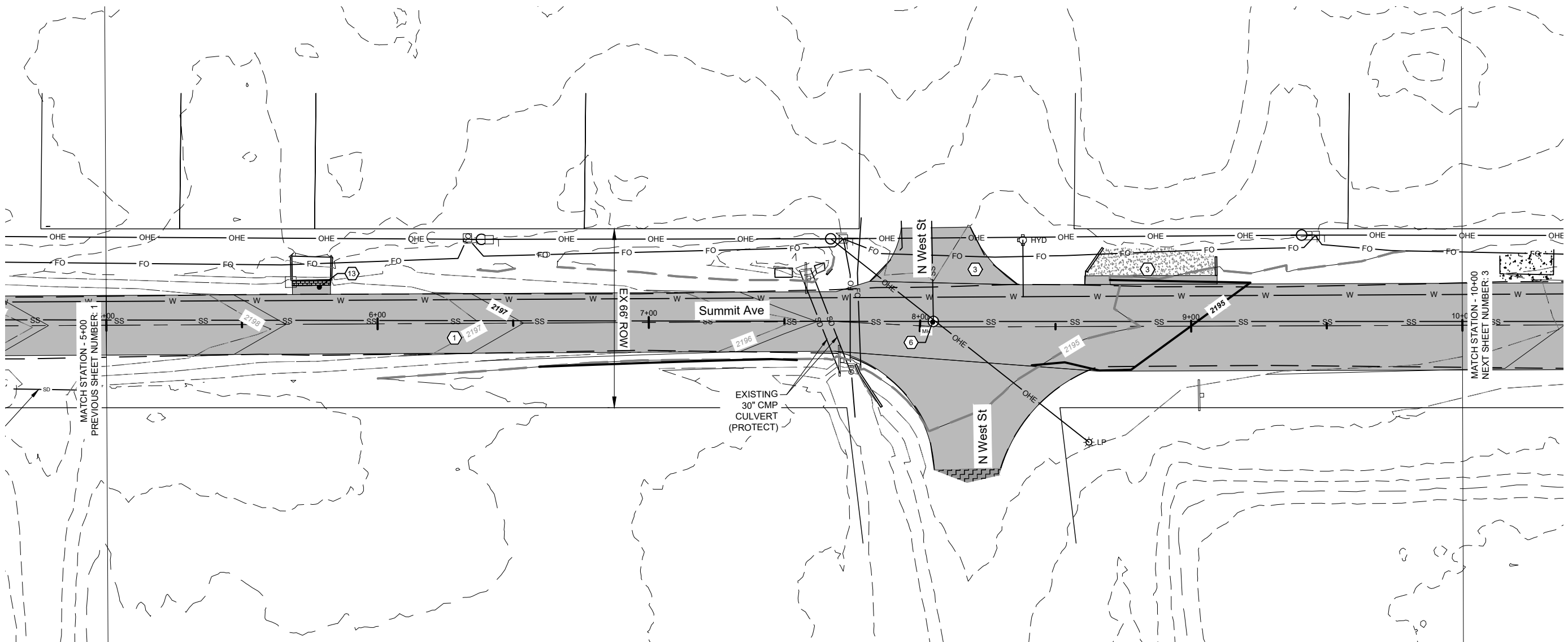
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 0+00 to Sta 5+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

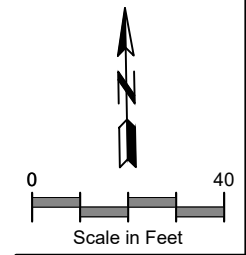
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	90	2



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 5+00 TO STA 10+00	CY	476
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 5+00 TO STA 10+00	SY	1747
302	120	AGGREGATE BASE COURSE CL 5 STA 5+00 TO STA 10+00	TON	628
302	0356	AGGREGATE SURFACE COURSE CL 13 STA 5+00 TO STA 10+00	TON	7
430	43	SUPERPAVE FAA 43 STA 5+00 TO STA 10+00	TON	582
430	5803	PG 58S-28 ASPHALT CEMENT STA 5+00 TO STA 10+00	TON	35
722	6200	ADJUST MANHOLE STA 8+05 1.8' LT	EA	1

- CONSTRUCTION NOTES**
- 1 REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
 - 3 RESTORE GRAVEL SURFACE ALONG EDGE OF NEW PAVEMENT.
 - 6 ADJUST SANITARY SEWER MANHOLE CASTING TO FINISHED GRADE.
 - 13 PROTECT EXISTING BRICK PAVERS, LANDSCAPING AND LANDSCAPE ROCK DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING LANDSCAPING AT NO COST TO OWNER.

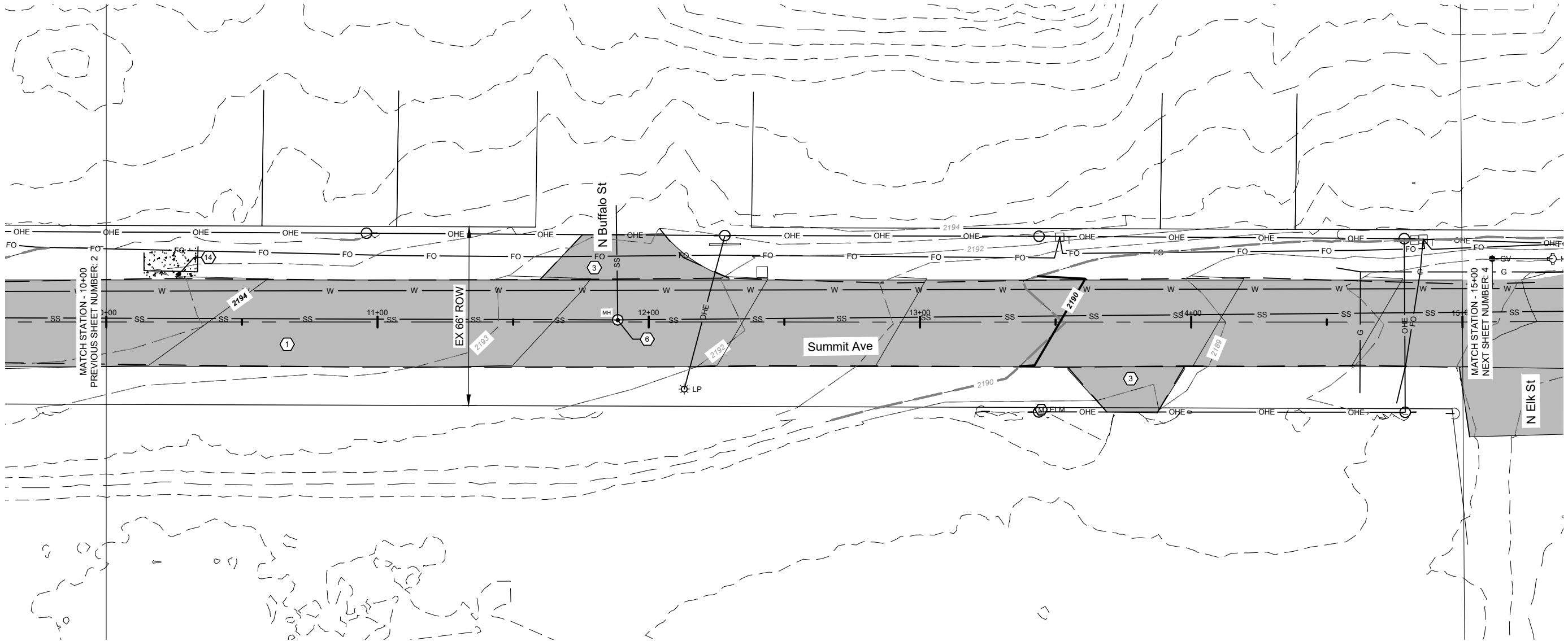
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 5+00 to Sta 10+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

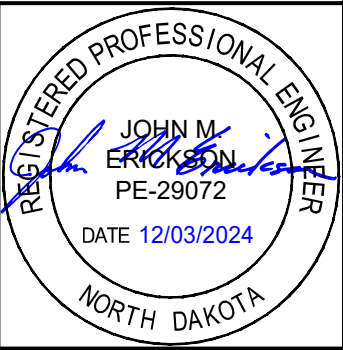
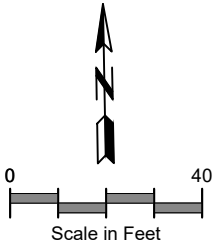
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	90	3



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 10+00 TO STA 15+00	CY	480
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 10+00 TO STA 15+00	SY	1927
302	120	AGGREGATE BASE COURSE CL 5 STA 10+00 TO STA 15+00	TON	693
302	0356	AGGREGATE SURFACE COURSE CL 13 STA 10+00 TO STA 15+00	TON	7
430	43	SUPERPAVE FAA 43 STA 10+00 TO STA 15+00	TON	642
430	5803	PG 58S-28 ASPHALT CEMENT STA 10+00 TO STA 15+00	TON	39
722	6200	ADJUST MANHOLE STA 11+89 0.8' LT	EA	1

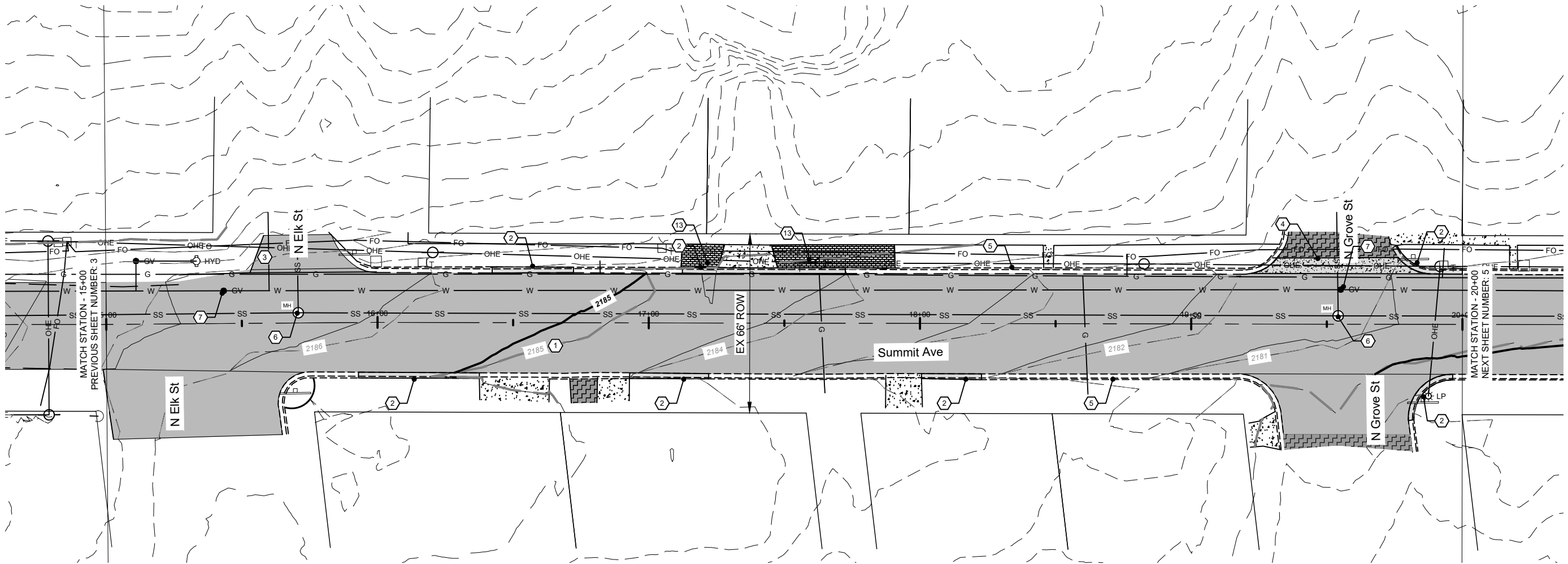
- CONSTRUCTION NOTES**
- 1 REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
 - 3 RESTORE GRAVEL SURFACE ALONG EDGE OF NEW PAVEMENT.
 - 6 ADJUST SANITARY SEWER MANHOLE CASTING TO FINISHED GRADE.
 - 14 PROTECT EXISTING CONCRETE DRIVEWAY DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING DRIVEWAY AT NO COST TO OWNER.

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 10+00 to Sta 15+00

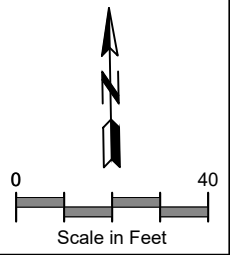
HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 15+00 TO STA 20+00	CY	538
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 15+00 TO STA 20+00	SY	2385
302	120	AGGREGATE BASE COURSE CL 5 STA 15+00 TO STA 20+00	TON	876
302	0356	AGGREGATE SURFACE COURSE CL 13 STA 15+00 TO STA 20+00	TON	4
430	43	SUPERPAVE FAA 43 STA 15+00 TO STA 20+00	TON	795
430	5803	PG 58S-28 ASPHALT CEMENT STA 15+00 TO STA 20+00	TON	48
722	6140	ADJUST GATE VALVE BOX STA 15+43 12.1' LT STA 19+55 12.7' LT	EA EA	1 1
722	6200	ADJUST MANHOLE STA 15+71 3.8' LT STA 19+54 3.1' LT	EA EA	1 1
748	140	CURB & GUTTER - TYPE I	LF	238
748	1030	VALLEY GUTTER 72IN	SY	34

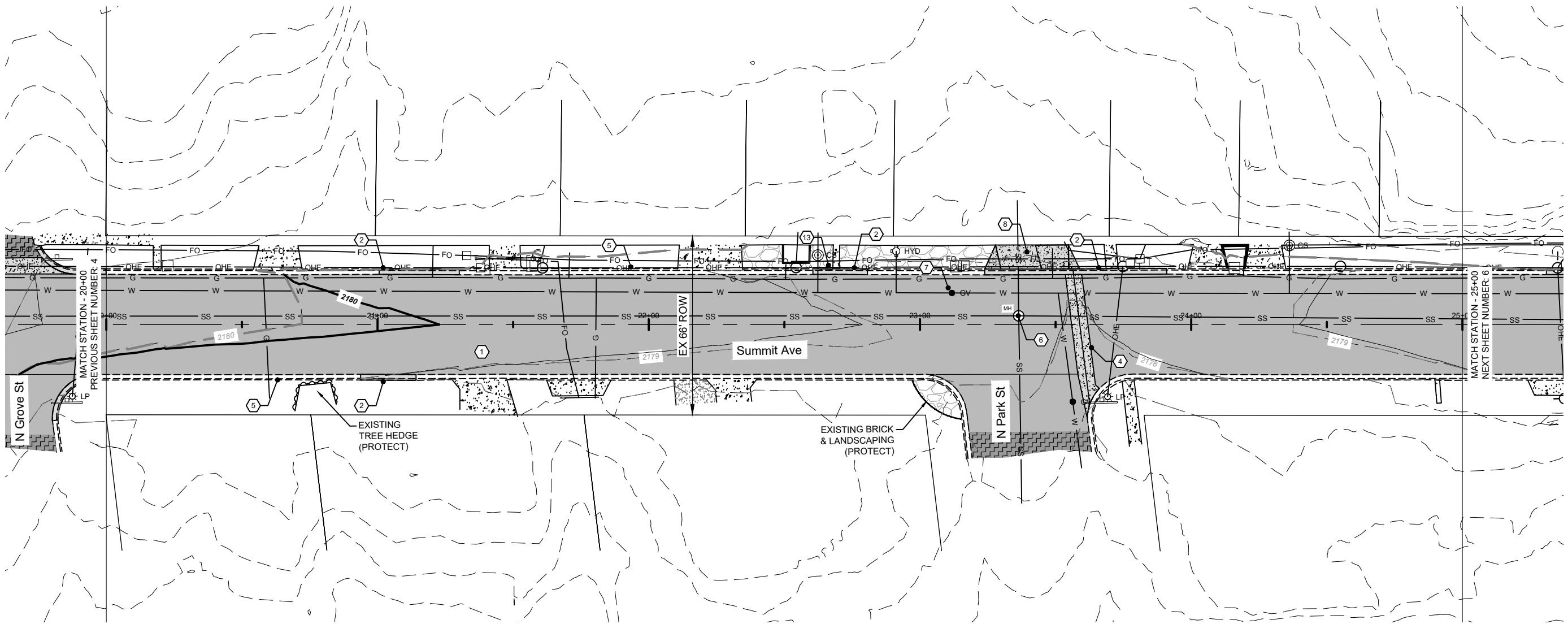
- CONSTRUCTION NOTES
- 1 REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
 - 2 REMOVE & REPLACE EXISTING CURB AND GUTTER. SEE STANDARD DRAWING D-748-1.
 - 3 RESTORE GRAVEL SURFACE ALONG EDGE OF NEW PAVEMENT.
 - 4 CONSTRUCT NEW VALLEY GUTTER. SEE DETAIL STANDARD DRAWING D-748-1.
 - 5 CONTRACTOR SHALL PROTECT CURB, GUTTER, SIDEWALKS AND DRIVEWAYS EXCEPT WHERE REMOVAL IS DESIGNATED. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
 - 6 ADJUST SANITARY SEWER MANHOLE CASTING TO FINISHED GRADE.
 - 7 ADJUST EXISTING GATE VALVE BOX TO FINISHED GRADE.
 - 13 PROTECT EXISTING BRICK PAVERS, LANDSCAPING AND LANDSCAPE ROCK DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING LANDSCAPING AT NO COST TO OWNER.

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 15+00 to Sta 20+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

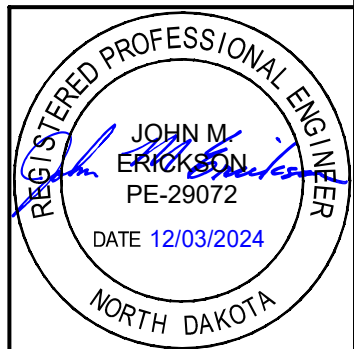
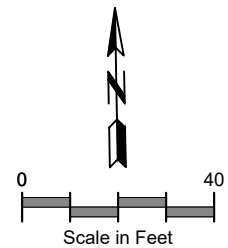


SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 20+00 TO STA 25+00	CY	419
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 20+00 TO STA 25+00	SY	2127
302	120	AGGREGATE BASE COURSE CL 5 STA 20+00 TO STA 25+00	TON	778
430	43	SUPERPAVE FAA 43 STA 20+00 TO STA 25+00	TON	709
430	5803	PG 58S-28 ASPHALT CEMENT STA 20+00 TO STA 25+00	TON	43
722	6140	ADJUST GATE VALVE BOX STA 23+10 11.7' LT	EA	1
722	6200	ADJUST MANHOLE STA 23+36 3.2' LT	EA	1
748	140	CURB & GUTTER - TYPE I	LF	131
748	1030	VALLEY GUTTER 72IN	SY	32
750	1000	DRIVEWAY CONCRETE	SY	31

CONSTRUCTION NOTES

- 1 REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
- 2 REMOVE & REPLACE EXISTING CURB AND GUTTER. SEE STANDARD DRAWING D-748-1.
- 4 CONSTRUCT NEW VALLEY GUTTER. SEE DETAIL STANDARD DRAWING D-748-1.
- 5 CONTRACTOR SHALL PROTECT CURB, GUTTER, SIDEWALKS AND DRIVEWAYS EXCEPT WHERE REMOVAL IS DESIGNATED. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 6 ADJUST SANITARY SEWER MANHOLE CASTING TO FINISHED GRADE.
- 7 ADJUST EXISTING GATE VALVE BOX TO FINISHED GRADE.
- 8 CONSTRUCT NEW CONCRETE DRIVEWAY. SEE DETAIL STANDARD DRAWING D-750-01.
- 13 PROTECT EXISTING BRICK PAVERS, LANDSCAPING AND LANDSCAPE ROCK DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING LANDSCAPING AT NO COST TO OWNER.

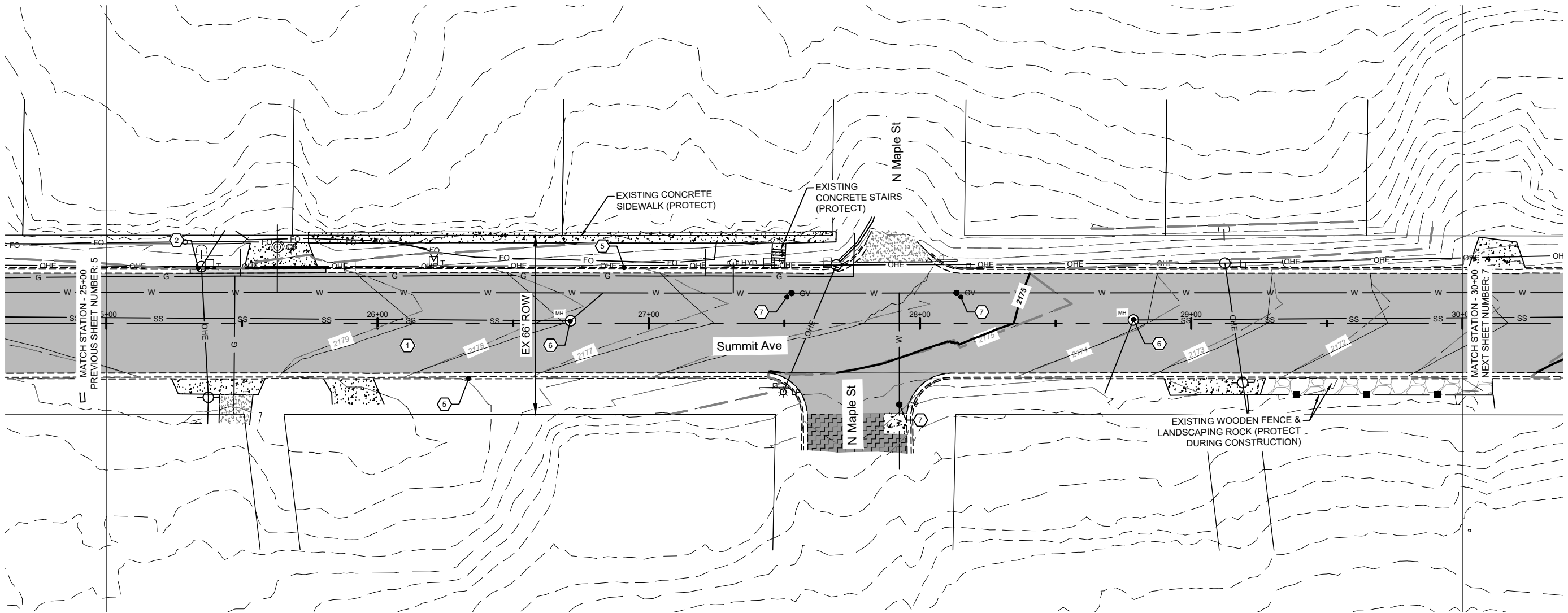
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	EXISTING LANDSCAPE ROCK
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 20+00 to Sta 25+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	90	6

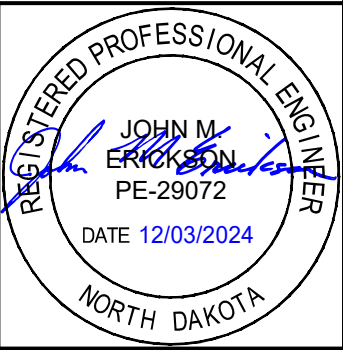
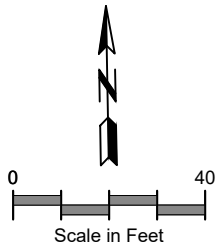


SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 25+00 TO STA 30+00	CY	401
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 25+00 TO STA 30+00	SY	2117
302	120	AGGREGATE BASE COURSE CL 5 STA 25+00 TO STA 30+00	TON	767
430	43	SUPERPAVE FAA 43 STA 25+00 TO STA 30+00	TON	706
430	5803	PG 58S-28 ASPHALT CEMENT STA 25+00 TO STA 30+00	TON	42
722	6140	ADJUST GATE VALVE BOX STA 27+53 11.2' LT STA 27+92 29.9' RT STA 28+13 11.2' LT	EA EA EA	1 1 1
722	6200	ADJUST MANHOLE STA 26+71 1.0' LT STA 28+79 1.2' LT	EA EA	1 1
748	140	CURB & GUTTER - TYPE I	LF	50

CONSTRUCTION NOTES

- REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
- REMOVE & REPLACE EXISTING CURB AND GUTTER. SEE STANDARD DRAWING D-748-1.
- CONTRACTOR SHALL PROTECT CURB, GUTTER, SIDEWALKS AND DRIVEWAYS EXCEPT WHERE REMOVAL IS DESIGNATED. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- ADJUST SANITARY SEWER MANHOLE CASTING TO FINISHED GRADE.
- ADJUST EXISTING GATE VALVE BOX TO FINISHED GRADE.

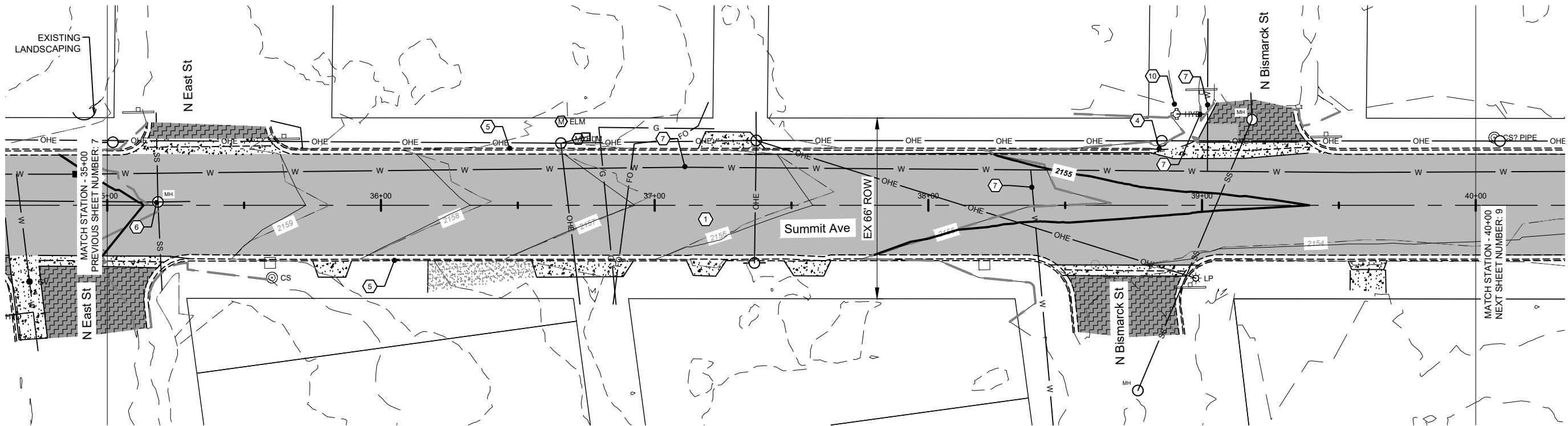
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	EXISTING LANDSCAPE ROCK
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 25+00 to Sta 30+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

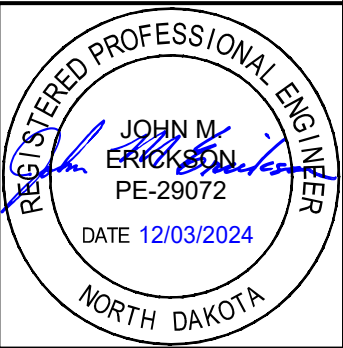
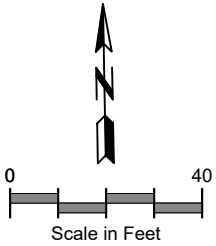
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-3004(054)	90	8



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 35+00 TO STA 40+00	CY	454
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 35+00 TO STA 40+00	SY	2072
302	120	AGGREGATE BASE COURSE CL 5 STA 30+00 TO STA 35+00	TON	745
430	43	SUPERPAVE FAA 43 STA 35+00 TO STA 40+00	TON	691
430	5803	PG 58S-28 ASPHALT CEMENT STA 35+00 TO STA 40+00	TON	41
722	6140	ADJUST GATE VALVE BOX STA 37+31 13.7' LT STA 38+41 24' RT STA 39+00 33' LT STA 39+02 32' LT	EA	1 1 1 1
722	6200	ADJUST MANHOLE STA 35+19 1.2' LT	EA	1
748	1030	VALLEY GUTTER 72 IN	SY	17

- CONSTRUCTION NOTES**
- 1 REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
 - 4 CONSTRUCT NEW VALLEY GUTTER. SEE DETAIL STANDARD DRAWING D-748-1.
 - 5 CONTRACTOR SHALL PROTECT CURB, GUTTER, SIDEWALKS AND DRIVEWAYS EXCEPT WHERE REMOVAL IS DESIGNATED. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
 - 6 ADJUST SANITARY SEWER MANHOLE CASTING TO FINISHED GRADE.
 - 7 ADJUST EXISTING GATE VALVE BOX TO FINISHED GRADE.

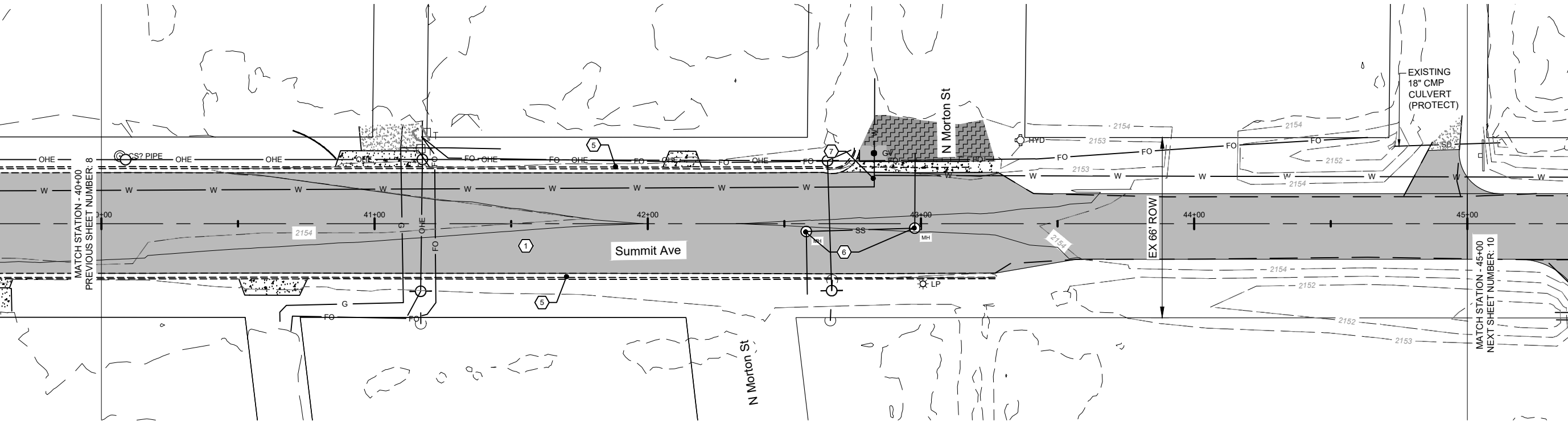
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 35+00 to Sta 40+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

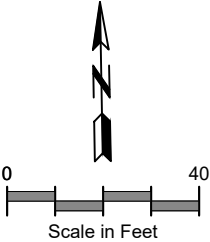
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	90	9



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 40+00 TO STA 45+00	CY	449
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 40+00 TO STA 45+00	SY	1822
302	120	AGGREGATE BASE COURSE CL 5 STA 40+00 TO STA 45+00	TON	655
302	0356	AGGREGATE SURFACE COURSE CL 13	TON	4
430	43	SUPERPAVE FAA 43 STA 40+00 TO STA 45+00	TON	607
430	5803	PG 58S-28 ASPHALT CEMENT STA 40+00 TO STA 45+00	TON	36
722	6140	ADJUST GATE VALVE BOX STA 42+83 16.9' LT	EA	1
722	6200	ADJUST MANHOLE STA 42+58 2.8' RT STA 42+98 1.6' RT	EA EA	1 1
748	1030	VALLEY GUTTER 72 IN	SY	6

- CONSTRUCTION NOTES**
- 1 REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
- 5 CONTRACTOR SHALL PROTECT CURB, GUTTER, SIDEWALKS AND DRIVEWAYS EXCEPT WHERE REMOVAL IS DESIGNATED. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 6 ADJUST SANITARY SEWER MANHOLE CASTING TO FINISHED GRADE.
- 7 ADJUST EXISTING GATE VALVE BOX TO FINISHED GRADE.

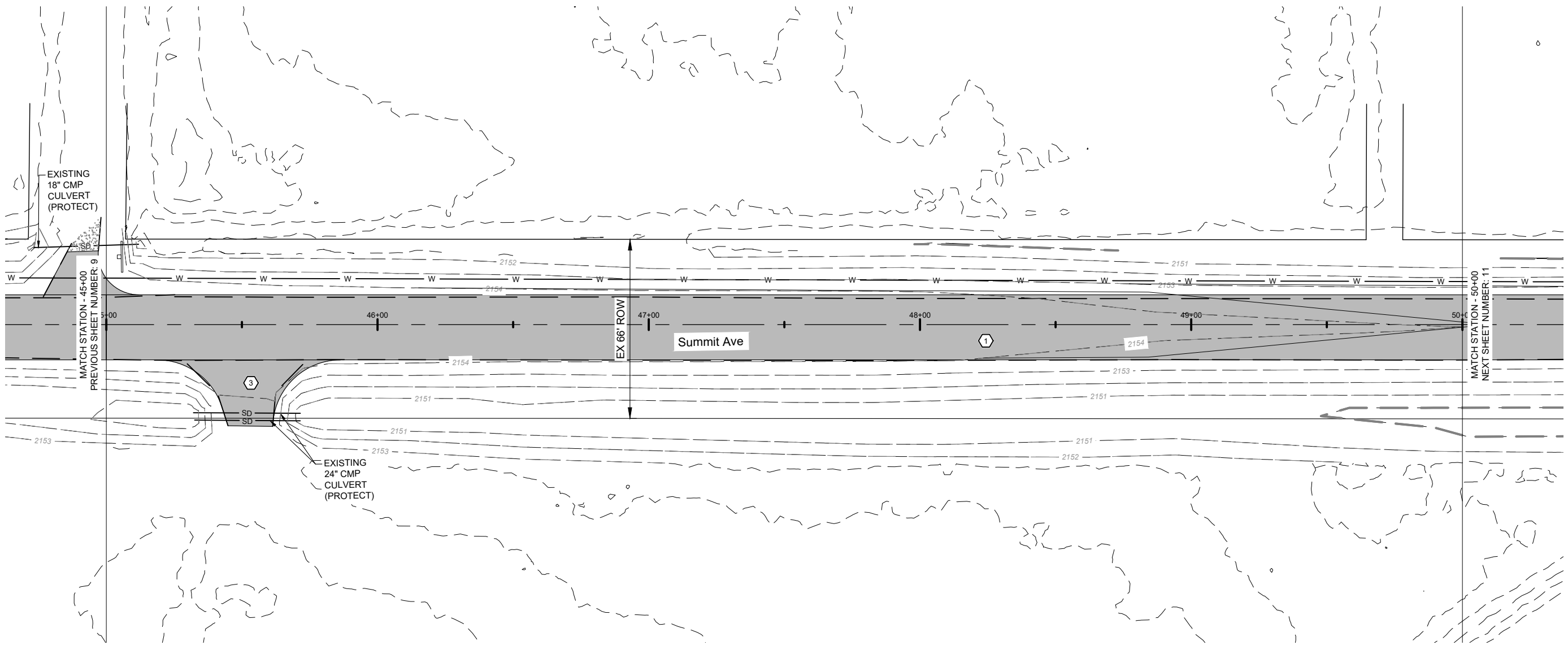
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 40+00 to Sta 45+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

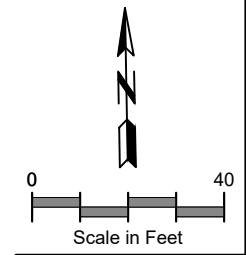
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	90	10



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 45+00 TO STA 50+00	CY	345
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 45+00 TO STA 50+00	SY	1443
302	120	AGGREGATE BASE COURSE CL 5 STA 45+00 TO STA 50+00	TON	519
302	0356	AGGREGATE SURFACE COURSE CL 13 STA 45+00 TO STA 50+00	TON	4
430	43	SUPERPAVE FAA 43 STA 45+00 TO STA 50+00	TON	481
430	5803	PG 58S-28 ASPHALT CEMENT STA 45+00 TO STA 50+00	TON	29

- CONSTRUCTION NOTES**
- ① REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
 - ③ RESTORE GRAVEL SURFACE ALONG EDGE OF NEW PAVEMENT.

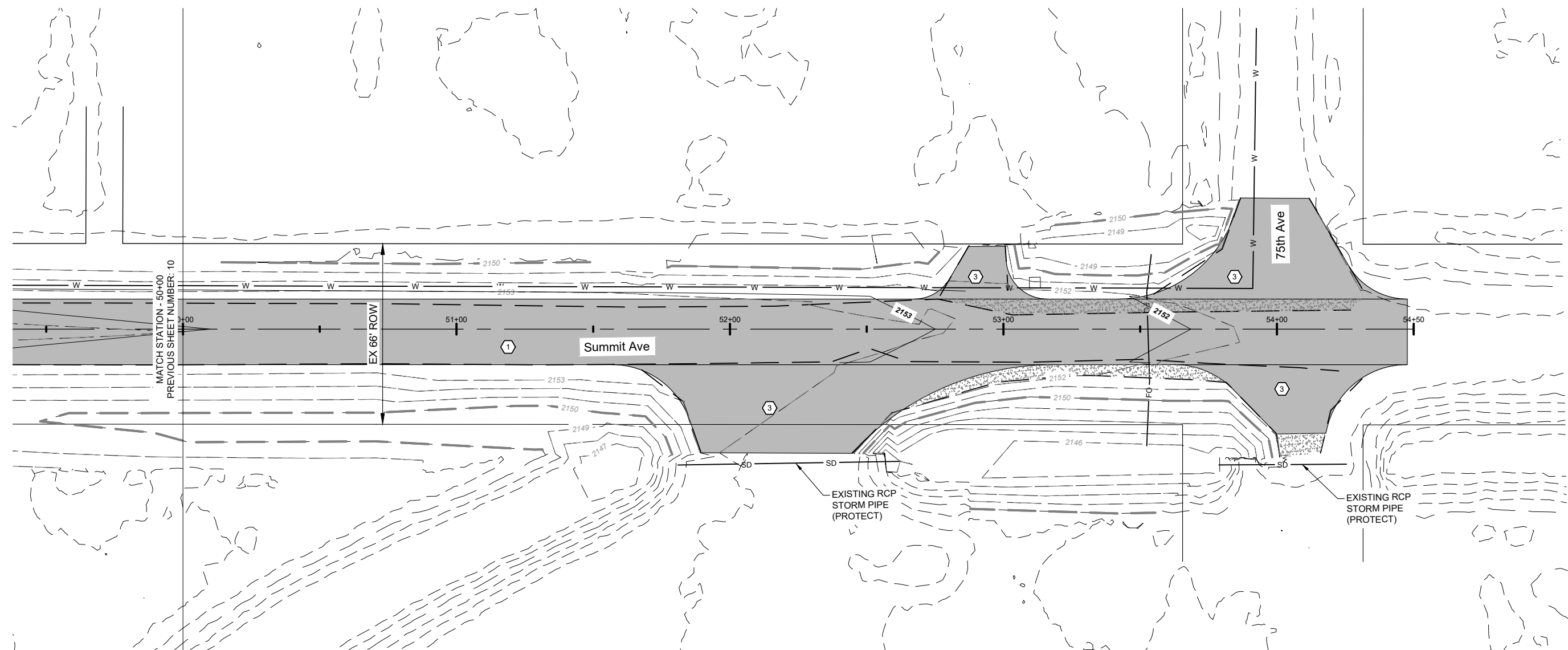
LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



Proposed Improvements
Sta 45+00 to Sta 50+00

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

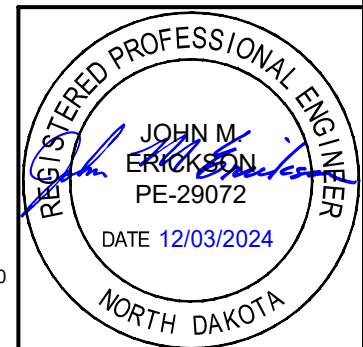
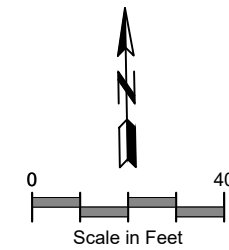
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	90	11



SPEC	CODE	DESCRIPTION	UNIT	QUANTITY
203	138	COMMON EXCAVATION - SUBCUT STA 50+00 TO STA 54+48	CY	410
230	172	SUBGRADE PREPARATION - TYPE A - 18IN STA 50+00 TO STA 54+48	SY	1812
302	120	AGGREGATE BASE COURSE CL 5 STA 50+00 TO STA 54+48	TON	652
302	0356	AGGREGATE SURFACE COURSE CL 13 STA 50+00 TO STA 54+48	TON	15
430	43	SUPERPAVE FAA 43 STA 50+00 TO STA 54+48	TON	604
430	5803	PG 58S-28 ASPHALT CEMENT STA 50+00 TO STA 54+48	TON	36

- CONSTRUCTION NOTES**
- 1 REPLACE BITUMINOUS PAVEMENT. SEE SEC 30 FOR TYPICAL SECTIONS.
 - 3 RESTORE GRAVEL SURFACE ALONG EDGE OF NEW PAVEMENT.

LEGEND	
	EXISTING CONCRETE
	EXISTING ASPHALT SURFACE
	EXISTING GRAVEL SURFACE
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED CURB & GUTTER



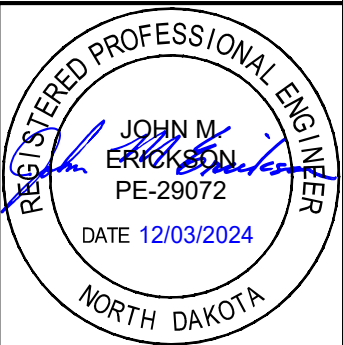
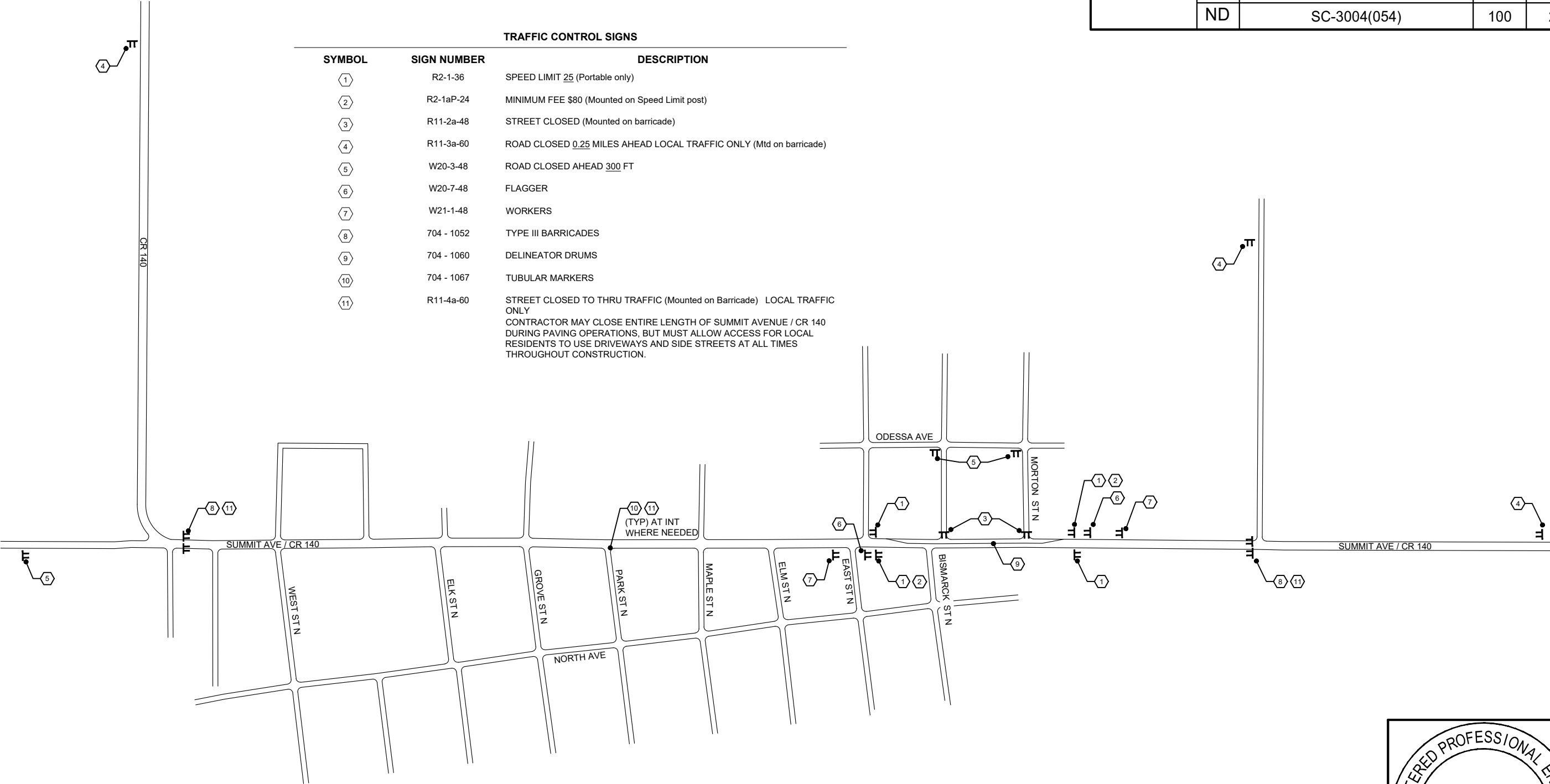
Proposed Improvements
Sta 50+00 to Sta 54+50

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SC-3004(054)	100	2

TRAFFIC CONTROL SIGNS

SYMBOL	SIGN NUMBER	DESCRIPTION
1	R2-1-36	SPEED LIMIT 25 (Portable only)
2	R2-1aP-24	MINIMUM FEE \$80 (Mounted on Speed Limit post)
3	R11-2a-48	STREET CLOSED (Mounted on barricade)
4	R11-3a-60	ROAD CLOSED 0.25 MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)
5	W20-3-48	ROAD CLOSED AHEAD 300 FT
6	W20-7-48	FLAGGER
7	W21-1-48	WORKERS
8	704 - 1052	TYPE III BARRICADES
9	704 - 1060	DELINEATOR DRUMS
10	704 - 1067	TUBULAR MARKERS
11	R11-4a-60	STREET CLOSED TO THRU TRAFFIC (Mounted on Barricade) LOCAL TRAFFIC ONLY CONTRACTOR MAY CLOSE ENTIRE LENGTH OF SUMMIT AVENUE / CR 140 DURING PAVING OPERATIONS, BUT MUST ALLOW ACCESS FOR LOCAL RESIDENTS TO USE DRIVEWAYS AND SIDE STREETS AT ALL TIMES THROUGHOUT CONSTRUCTION.



Work Zone Traffic Control

HMA Pavement Reconstruction
Summit Avenue / CR 140
76th Avenue to 75th Avenue - Hebron, ND