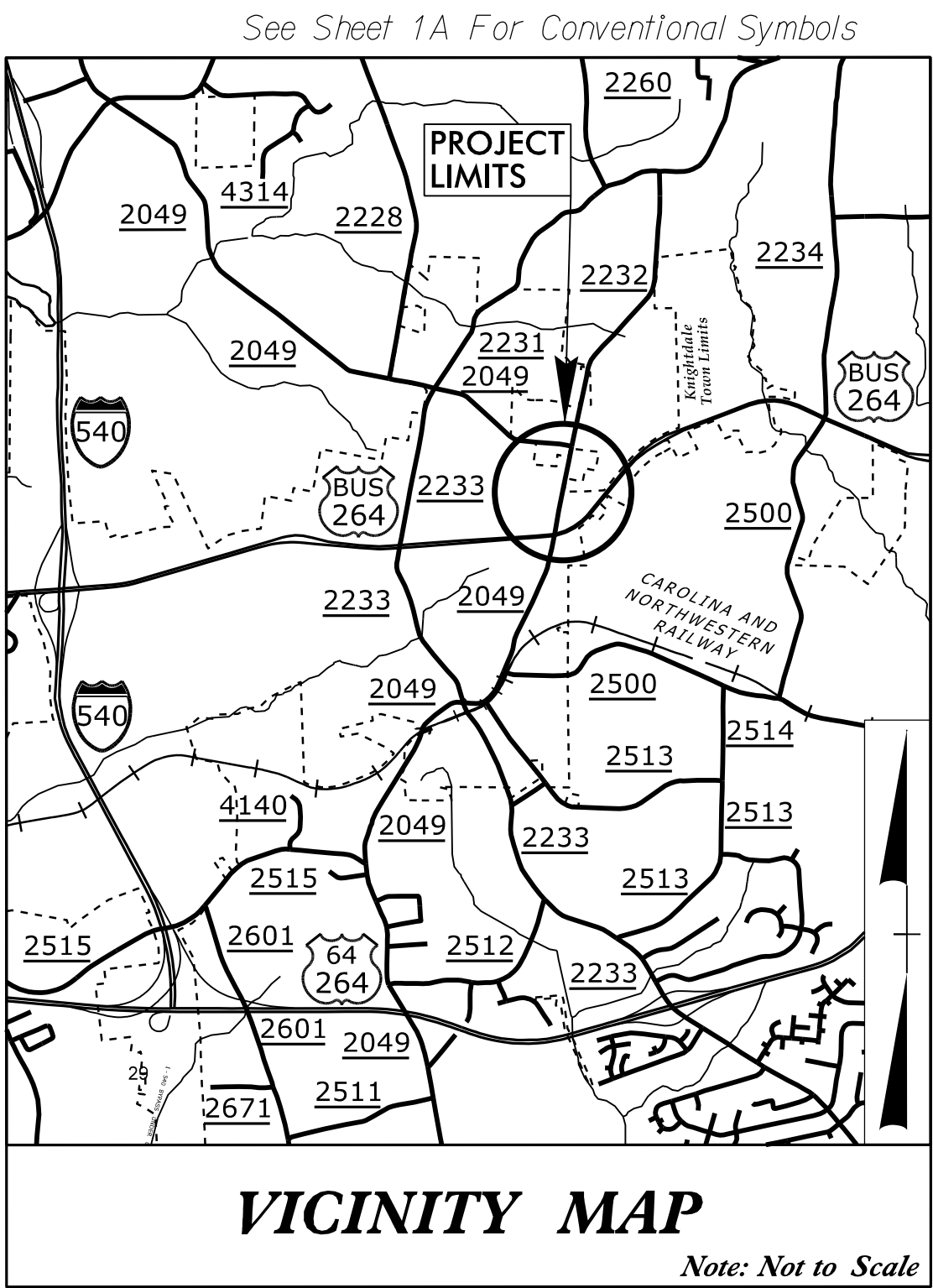
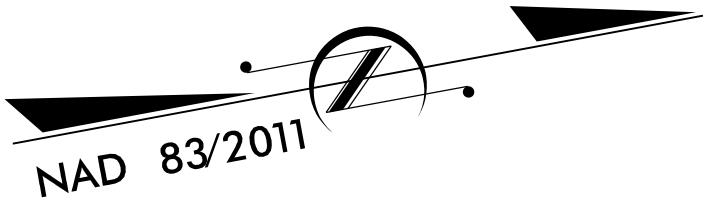
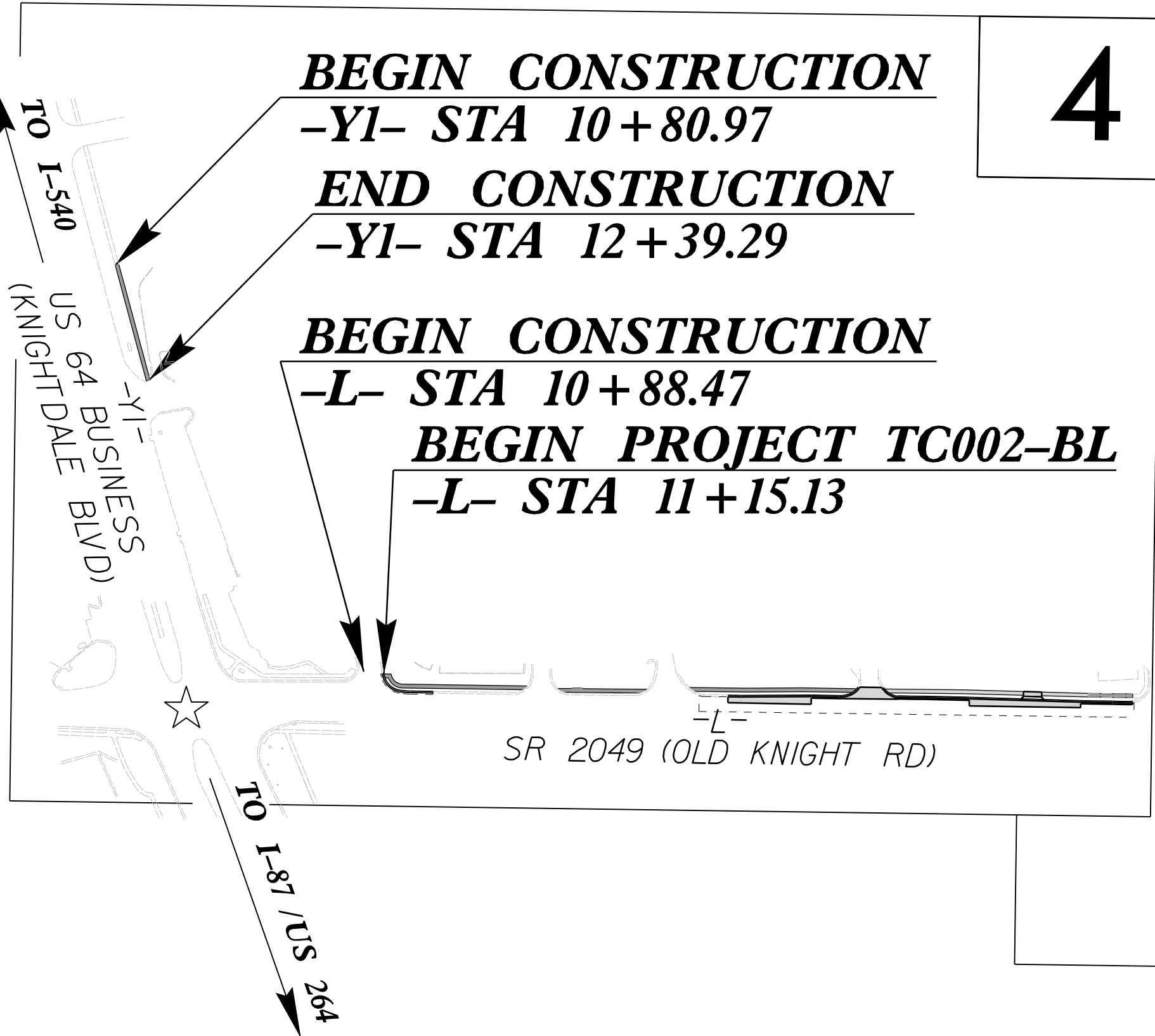


PROJECT: TC002-BL



SITE DATA TABLE	
KNIGHTDALE PROJECT#:	TC002-BL
CURB & GUTTER (LF):	850
SIDEWALK (LF):	1220
DRAINAGE PIPE (LF):	540

TO DOWNTOWN
KNIGHTDALE



Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: Travis A. Cook Date: 5/20/2026
Town Engineer

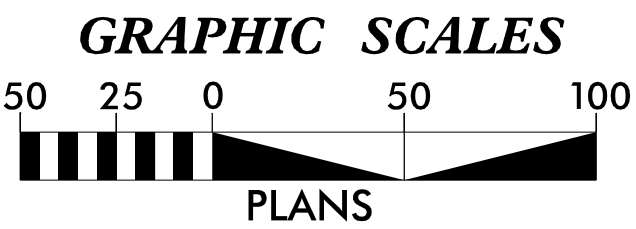
These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: Travis A. Cook Date: 5/22/2026
Land Use Administrator

Professional Design Engineer Certification. These improvements shall be constructed in accordance with the following drawings and with the Standard Specifications of the Town of Knightdale.

I, Travis A. Cook, PE, certify that the Standard Specifications of the Town of Knightdale have been thoroughly checked and found to be applicable to this project. All exceptions to the applicable Town standards have been previously approved by the Town of Knightdale and said exceptions are shown on Sheet(s) of these drawings.

Signed by: Travis A. Cook, PE
Seal By: Travis A. Cook, PE
Date: 5/18/2026



Prepared in the Offices of:

STANTEC CONSULTING
Tel. (919) 851-6866 | Fax. (919) 851-7024 | www.stantec.com
License No. P-0072

SUNGATE DESIGN GROUP, P.A.
905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

PROJECT ENGINEER

Signed by: Travis A. Cook
P.E.
SIGNATURE:

Prepared for:

TOWN OF KNIGHTDALE
950 STEEPLE SQUARE CT
919-217-2200

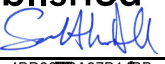
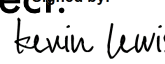
BETSY WATSON, PE
PROJECT ENGINEER

TRAVIS COOK, PE
PROJECT DESIGN ENGINEER

DERRICK WALLER, PE
ROADWAY DESIGN ENGINEER

8/17/99

5/14/2026 5:06:56 PM \\US06564-PPF5501\shared_projects\171002729\transportation\design\Roadway\Proj\2729_RdJ- tsh.dgn tracook

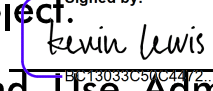
		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		PROJECT REFERENCE NO. TC002-BL	SHEET NO. 1A
				ROADWAY DESIGN ENGINEER TRAVIS A. COOK SEAL 046598 5/18/2026 Stantec Stantec Consulting Services Inc 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672	
INDEX OF SHEETS					
SHEET NUMBER	SHEET				
1	TITLE SHEET				
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS				
1B	CONVENTIONAL SYMBOLS				
2A-1 THRU 2A-2	PAVEMENT SCHEDULE, DETAILS AND TYPICAL SECTIONS				
3D-1	DRAINAGE SUMMARY				
4 THRU 5	PLAN SHEETS				
EC-1 THRU EC-7	EROSION CONTROL PLANS				
RF1	REFORESTATION DETAIL SHEET				
X-1 THRU X-9	CROSS-SECTIONS				
TMP-1	TRANSPORTATION MANAGEMENT PLAN				
SIGN/PM-1 THRU SIGN/PM-4	SIGNING AND PAVEMENT MARKING PLANS				
UC-1THRU UC-7	UTILITY CONSTRUCTION PLANS				
UO-1THRU UO-5	UTILITIES BY OTHERS				
		GENERAL NOTES			
		EFFECTIVE: 01-16-2024 REVISED:			
		GRADING AND SURFACING OR RESURFACING AND WIDENING:			
		THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.			
		CLEARING:			
		CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.			
		SUPERELEVATION:			
		ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.			
		DRIVEWAYS:			
		DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADI1 OR RADI1 AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.			
		UTILITIES:			
		UTILITY OWNER ON THIS PROJECT IS CITY OF RALIEGH			
		ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.			
		RIGHT-OF-WAY MARKERS:			
		ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.			
		CURB RAMPS			
		CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.			
		GENERAL NOTES: 2024 SPECIFICATIONS			
		2024 ROADWAY ENGLISH STANDARD DRAWINGS			
		EFF. 01-16-2024 REV.			
		The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:			
		STD.NO. TITLE			
		DIVISION 2 - EARTHWORK			
		200.02 Method of Clearing - Method 11			
		225.02 Guide for Grading Subgrade - Secondary and Local			
		DIVISION 3 - PIPE CULVERTS			
		300.01 Method of Pipe Installation (Use Details in Lieu of Standards for Sheets 1 and 2 of 2)			
		310.02 Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe			
		DIVISION 6 - ASPHALT BASES AND PAVEMENTS			
		654.01 Pavement Repairs			
		DIVISION 8 - INCIDENTALS			
		806.01 Concrete Right-of-Way Marker			
		840.02 Concrete Catch Basin - 12" thru 54" Pipe			
		840.03 Frame, Grates and Hood - for Use on Standard Catch Basin			
		840.66 Drainage Structure Steps			
		840.72 Pipe Collar			
		846.01 Concrete Curb, Gutter and Curb & Gutter			
		848.01 Concrete Sidewalk (Use Detail in Lieu of Standard for Sheet 1 of 1)			
		848.02 Driveway Turnout - Radius Type			
		848.06 Curb Ramp (Use Details in Lieu of Standards for Sheets 9 and 10 of 13)			
		876.02 Guide for Rip Rap at Pipe Outlets			
		876.04 Drainage Ditches with Class 'B' Rip Rap			
		Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.			
		By:  Date: 5/20/2026			
		Town Engineer			
		These plans are approved by the Town of Knightdale and serve as construction plans for this project.			
		By:  Date: 5/22/2026			
		Land Use Administrator			

Note: Not to Scale

BOUNDARIES AND PROPERTY:

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By:  Date: 5/20/2026
Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By:  Date: 5/22/2026
Land Use Administrator

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

RAILROADS:

State Line _____
County Line _____
Township Line _____
City Line _____
Reservation Line _____
Property Line _____
Existing Iron Pin (EIP) _____
Computed Property Corner _____
Existing Concrete Monument (ECM) _____
Parcel/Sequence Number _____
Existing Fence Line _____
Proposed Woven Wire Fence _____
Proposed Chain Link Fence _____
Proposed Barbed Wire Fence _____
Existing Wetland Boundary _____
Proposed Wetland Boundary _____
Existing Endangered Animal Boundary _____
Existing Endangered Plant Boundary _____
Existing Historic Property Boundary _____
Known Contamination Area: Soil _____
Potential Contamination Area: Soil _____
Known Contamination Area: Water _____
Potential Contamination Area: Water _____
Contaminated Site: Known or Potential _____

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or UG Tank Cap _____
Sign _____
Well _____
Small Mine _____
Foundation _____
Area Outline _____
Cemetery _____
Building _____
School _____
Church _____
Dam _____
Stream or Body of Water _____
Hydro, Pool or Reservoir _____
Jurisdictional Stream _____
Buffer Zone 1 _____
Buffer Zone 2 _____
Flow Arrow _____
Disappearing Stream _____
Spring _____
Wetland _____
Proposed Lateral, Tail, Head Ditch _____
False Sump _____

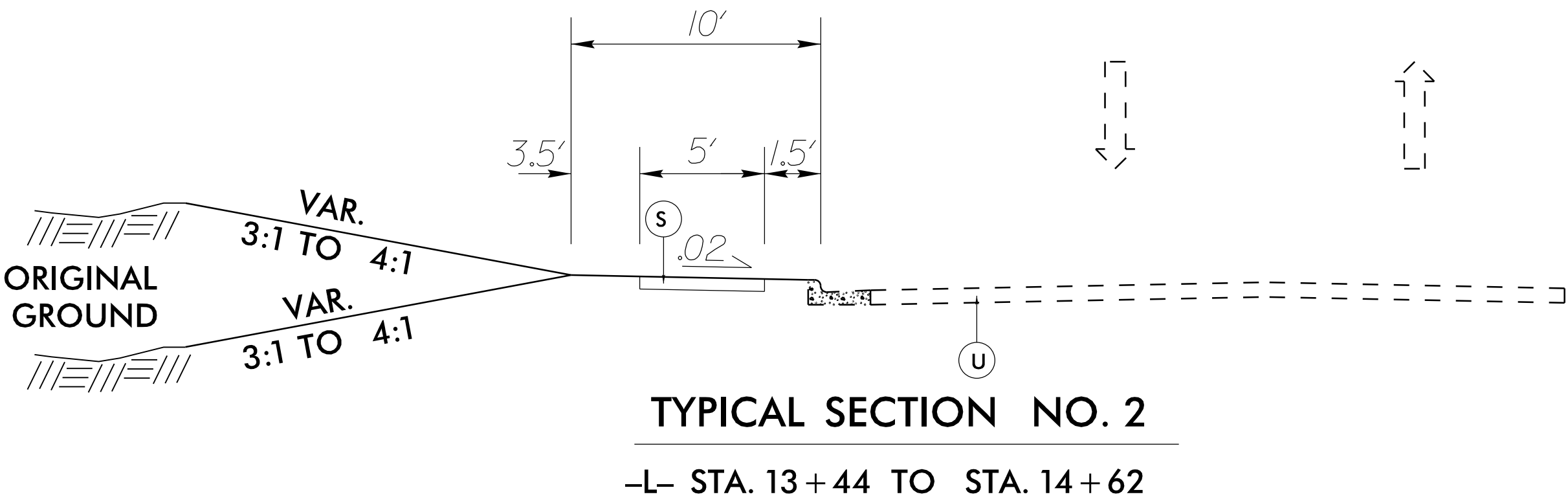
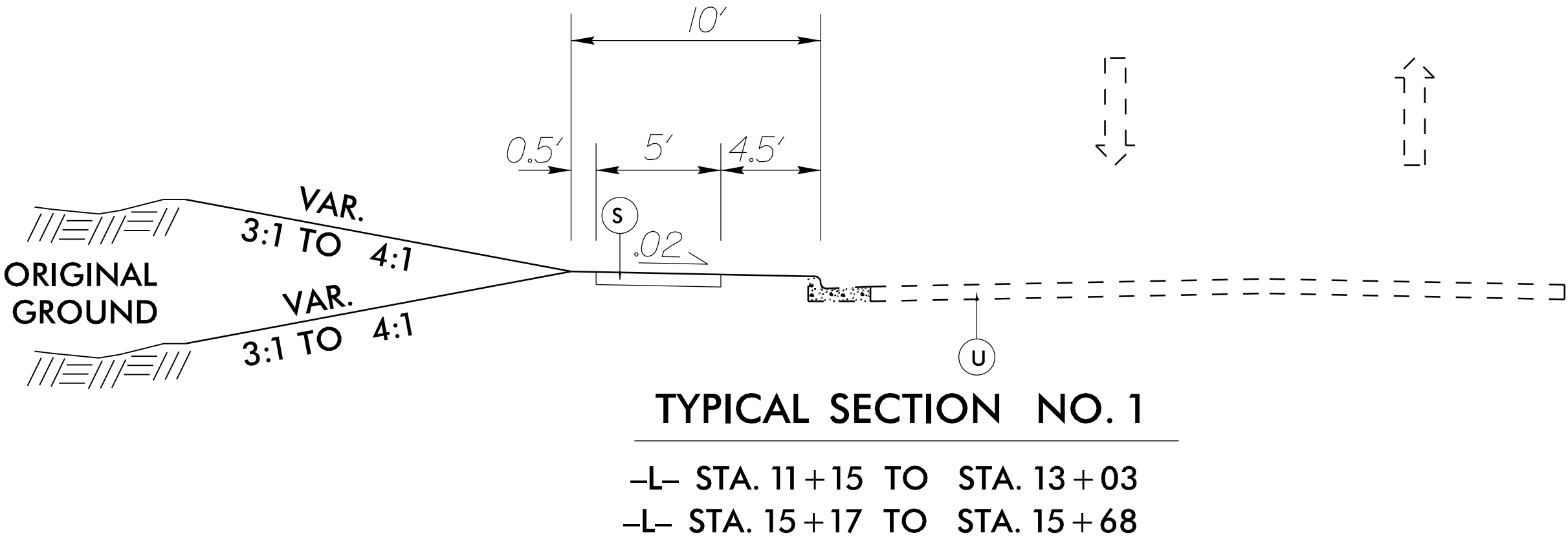
HYDROLOGY:

Standard Gauge _____
RR Signal Milepost _____
Switch _____
RR Abandoned _____
RR Dismantled _____
RIGHT OF WAY & PROJECT CONTROL:
Primary Horiz Control Point _____
Primary Horiz and Vert Control Point _____
Secondary Horiz and Vert Control Point _____
Vertical Benchmark _____
Existing Right of Way Monument _____
Proposed Right of Way Monument (Rebar and Cap) _____
Proposed Right of Way Monument (Concrete) _____
Existing Permanent Easement Monument _____
Proposed Permanent Easement Monument (Rebar and Cap) _____
Existing C/A Monument _____
Proposed C/A Monument (Rebar and Cap) _____
Proposed C/A Monument (Concrete) _____
Existing Right of Way Line _____
Proposed Right of Way Line _____
Existing Control of Access Line _____
Proposed Control of Access Line _____
Proposed ROW and CA Line _____
Existing Easement Line _____
Proposed Temporary Construction Easement _____
Proposed Temporary Drainage Easement _____
Proposed Permanent Drainage Easement _____
Proposed Permanent Drainage/Utility Easement _____
Proposed Temporary Utility Easement _____
Proposed Aerial Utility Easement _____
ROADS AND RELATED FEATURES:
Existing Edge of Pavement _____
Existing Curb _____
Proposed Slope Stakes Cut _____
Proposed Slope Stakes Fill _____
Proposed Curb Ramp _____
Existing Metal Guardrail _____
Proposed Guardrail _____
Existing Cable Guiderail _____
Proposed Cable Guiderail _____
Equality Symbol _____
Pavement Removal _____
VEGETATION:
Single Tree _____
Single Shrub _____
Hedge _____

Woods Line _____
Orchard _____
Vineyard _____
EXISTING STRUCTURES:
MAJOR:
Bridge, Tunnel or Box Culvert _____
Bridge Wing Wall, Head Wall and End Wall - MINOR:
Head and End Wall _____
Pipe Culvert _____
Footbridge _____
Drainage Box: Catch Basin, DI or JB _____
Paved Ditch Gutter _____
Storm Sewer Manhole _____
Storm Sewer _____
UTILITIES:
* SUE - Subsurface Utility Engineering
LOS - Level of Service - A,B,C or D (Accuracy)
POWER:
Existing Power Pole _____
Proposed Power Pole _____
Existing Joint Use Pole _____
Proposed Joint Use Pole _____
Power Manhole _____
Power Line Tower _____
Power Transformer _____
UG Power Cable Hand Hole _____
H-Frame Pole _____
UG Power Line Test Hole (SUE - LOS A)* _____
UG Power Line (SUE - LOS B)* _____
UG Power Line (SUE - LOS C)* _____
UG Power Line (SUE - LOS D)* _____
TELEPHONE:
Existing Telephone Pole _____
Proposed Telephone Pole _____
Telephone Manhole _____
Telephone Pedestal _____
Telephone Cell Tower _____
UG Telephone Cable Hand Hole _____
UG Telephone Test Hole (SUE - LOS A)* _____
UG Telephone Cable (SUE - LOS B)* _____
UG Telephone Cable (SUE - LOS C)* _____
UG Telephone Cable (SUE - LOS D)* _____
UG Telephone Conduit (SUE - LOS B)* _____
UG Telephone Conduit (SUE - LOS C)* _____
UG Telephone Conduit (SUE - LOS D)* _____
UG Fiber Optics Cable (SUE - LOS B)* _____
UG Fiber Optics Cable (SUE - LOS C)* _____
UG Fiber Optics Cable (SUE - LOS D)* _____

Water Manhole _____
Water Meter _____
Water Valve _____
Water Hydrant _____
UG Water Line Test Hole (SUE - LOS A)* _____
UG Water Line (SUE - LOS B)* _____
UG Water Line (SUE - LOS C)* _____
UG Water Line (SUE - LOS D)* _____
Above Ground Water Line _____
TV:
TV Pedestal _____
TV Tower _____
UG TV Cable Hand Hole _____
UG TV Test Hole (SUE - LOS A)* _____
UG TV Cable (SUE - LOS B)* _____
UG TV Cable (SUE - LOS C)* _____
UG TV Cable (SUE - LOS D)* _____
UG Fiber Optic Cable (SUE - LOS B)* _____
UG Fiber Optic Cable (SUE - LOS C)* _____
UG Fiber Optic Cable (SUE - LOS D)* _____
GAS:
Gas Valve _____
Gas Meter _____
UG Gas Line Test Hole (SUE - LOS A)* _____
UG Gas Line (SUE - LOS B)* _____
UG Gas Line (SUE - LOS C)* _____
UG Gas Line (SUE - LOS D)* _____
Above Ground Gas Line _____
SANITARY SEWER:
Sanitary Sewer Manhole _____
Sanitary Sewer Cleanout _____
UG Sanitary Sewer Line _____
Above Ground Sanitary Sewer _____
SS Force Main Line Test Hole (SUE - LOS A)* _____
SS Force Main Line (SUE - LOS B)* _____
SS Force Main Line (SUE - LOS C)* _____
SS Force Main Line (SUE - LOS D)* _____
MISCELLANEOUS:
Utility Pole _____
Utility Pole with Base _____
Utility Located Object _____
Utility Traffic Signal Box _____
Utility Unknown UG Line (SUE - LOS B)* _____
UG Tank; Water, Gas, Oil _____
Underground Storage Tank, Approx. Loc. _____
AG Tank; Water, Gas, Oil _____
Geoenvrionmental Boring _____
Abandoned According to Utility Records _____
End of Information _____

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
R1	2'-6" CONCRETE CURB AND GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT



Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: [Signature] Date: 5/20/2026

Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: [Signature] Date: 5/22/2026

Land Use Administrator

PROJECT REFERENCE NO.
TC002-BL

SHEET NO.
2A-1

R/W SHEET NO.

ROADWAY DESIGN
ENGINEER
Travis A. Cook
SEAL
046598
TRAVIS A. COOK
05/18/2026



Stantec Consulting Services Inc
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
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License No. F-0672

5/14/2026
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Track

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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R1	2'-6" CONCRETE CURB AND GUTTER
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T	EARTH MATERIAL
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.
TC002-BL

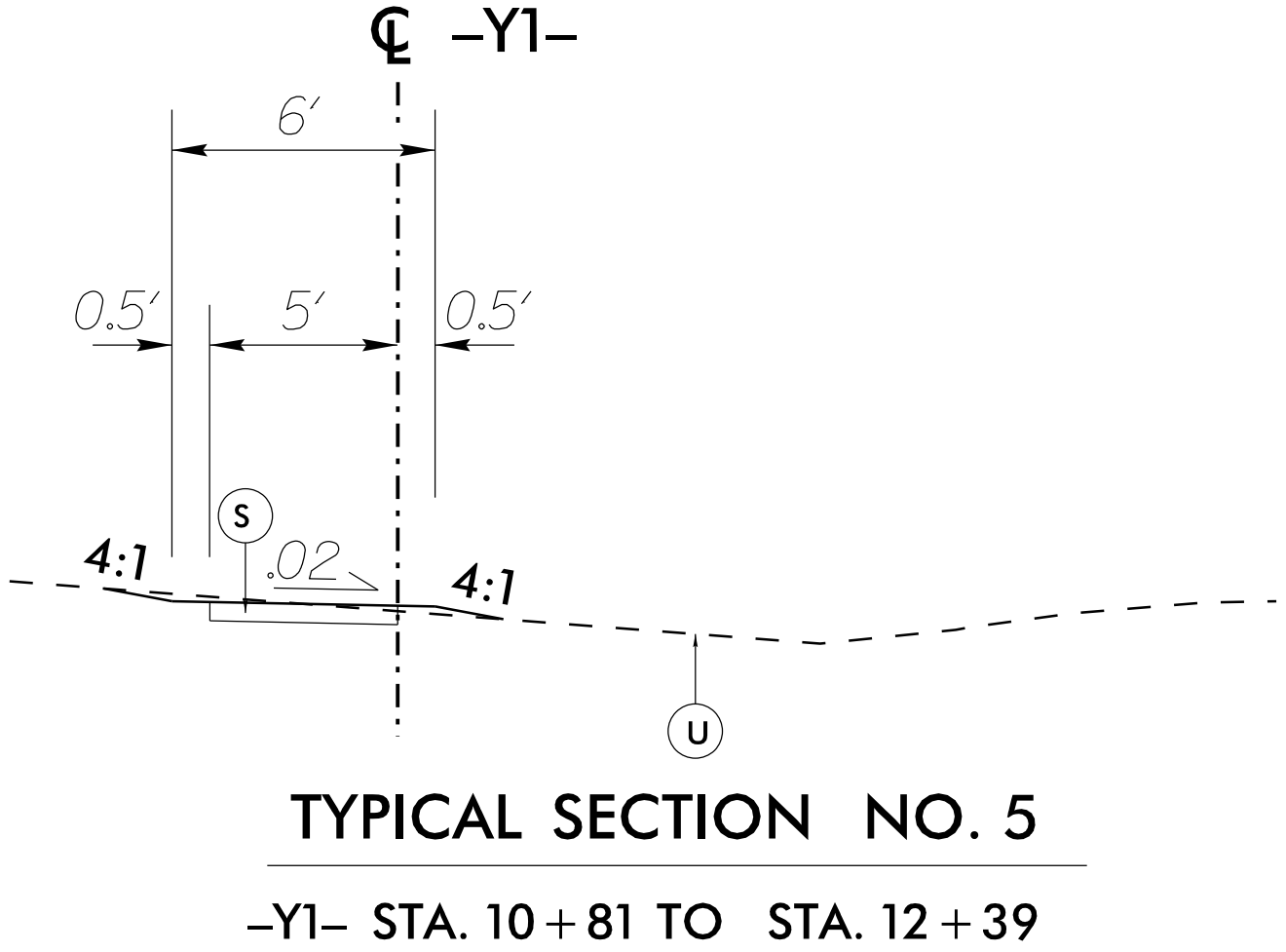
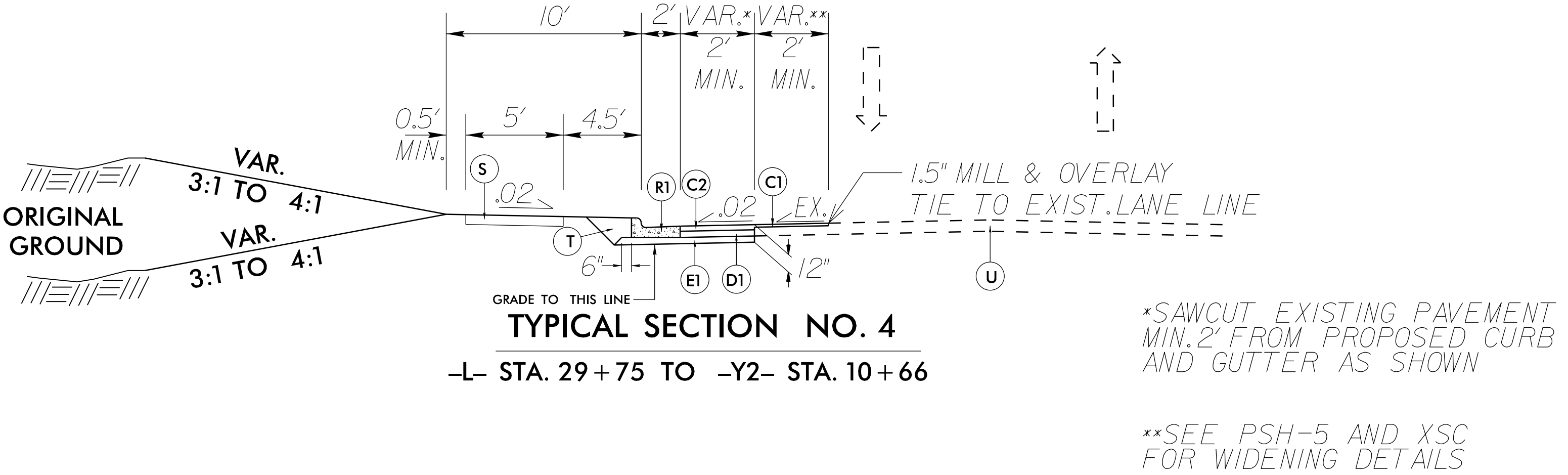
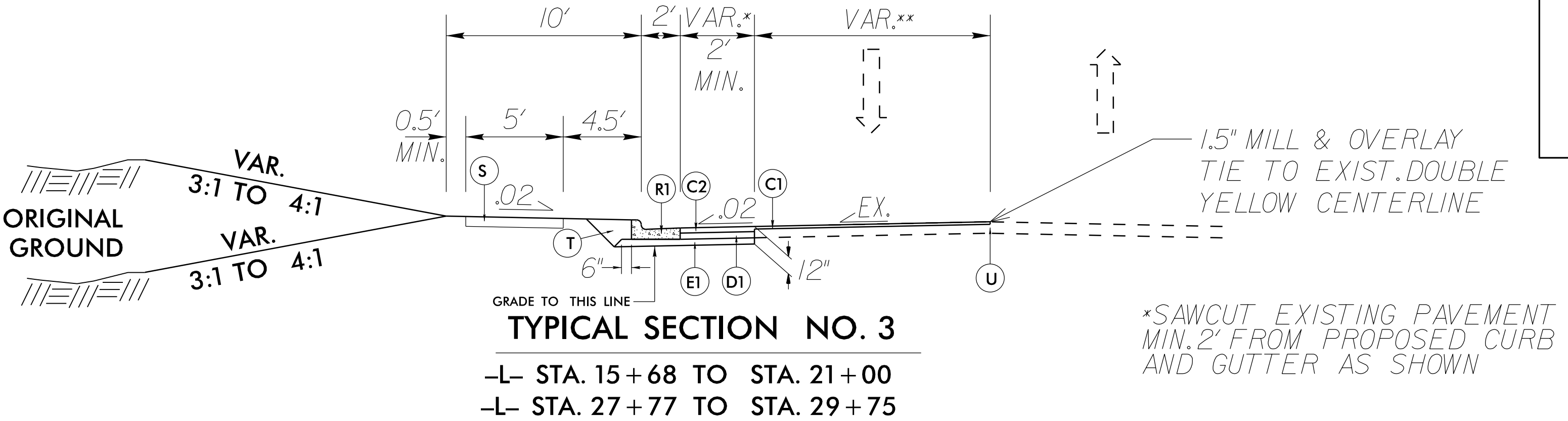
SHEET NO.
2A-2

RW SHEET NO.

ROADWAY DESIGN
Signed
Travis A. Cook
ENGINEER
SEAL
046598
TRAVIS A. COOK
9/18/2026

 **Stantec**

Stantec Consulting Services Inc
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
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Fax. (919) 851-7024
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License No. F-0672



Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: *[Signature]* Date: 5/20/2026
Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

Signed by:
By: *[Signature]* Date: 5/22/2026
Land Use Administrator

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

Documented by: _____ Date: 5/20/2026
 By: [Signature]
 4B0380A37B148B

Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

Signed by: _____ Date: 5/22/2026
 By: [Signature]
 4C13033C60C4472

Land Use Administrator



PROJECT REFERENCE NO.
TC002-BL

SHEET NO.
5

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

Signed by: Travis J. Davis
Professional Engineer
SEAL 046598
EXPIRATION DATE 12/31/2026

Signed by: Joshua B. Davis
Professional Engineer
SEAL 26971
EXPIRATION DATE 12/31/2026

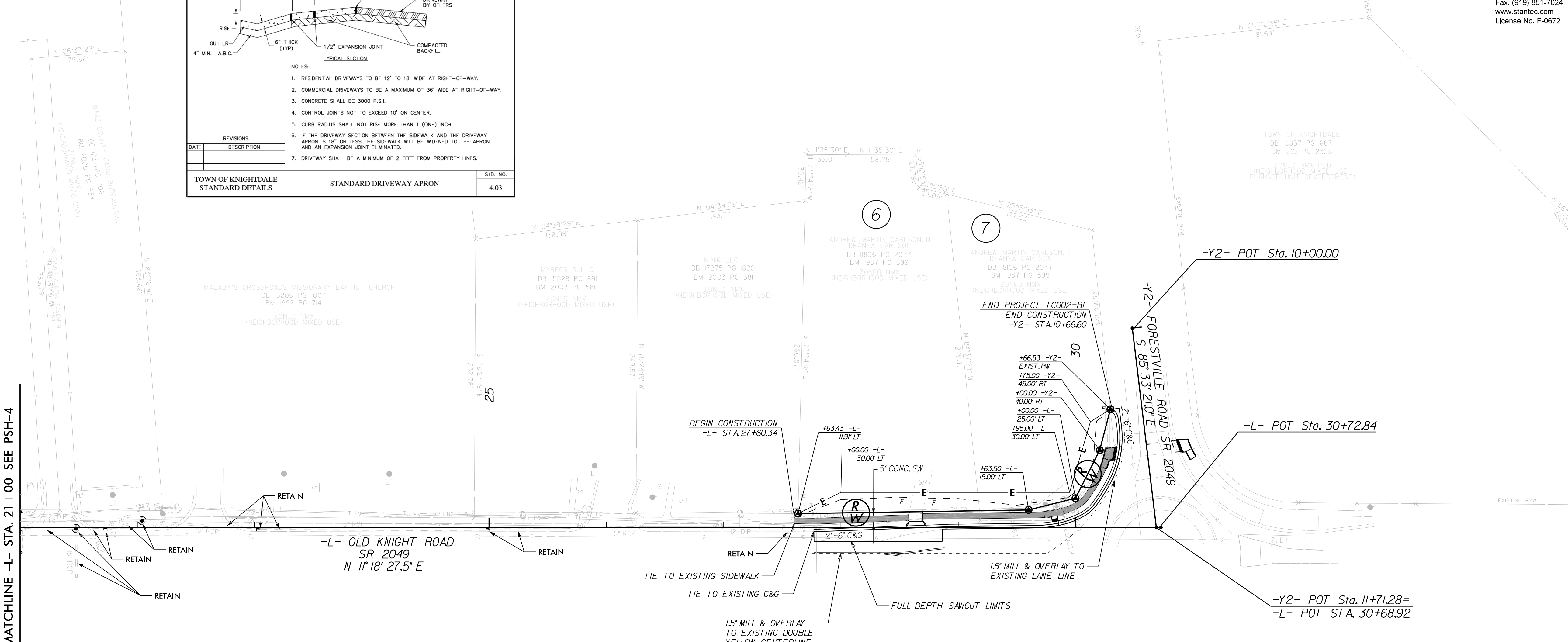
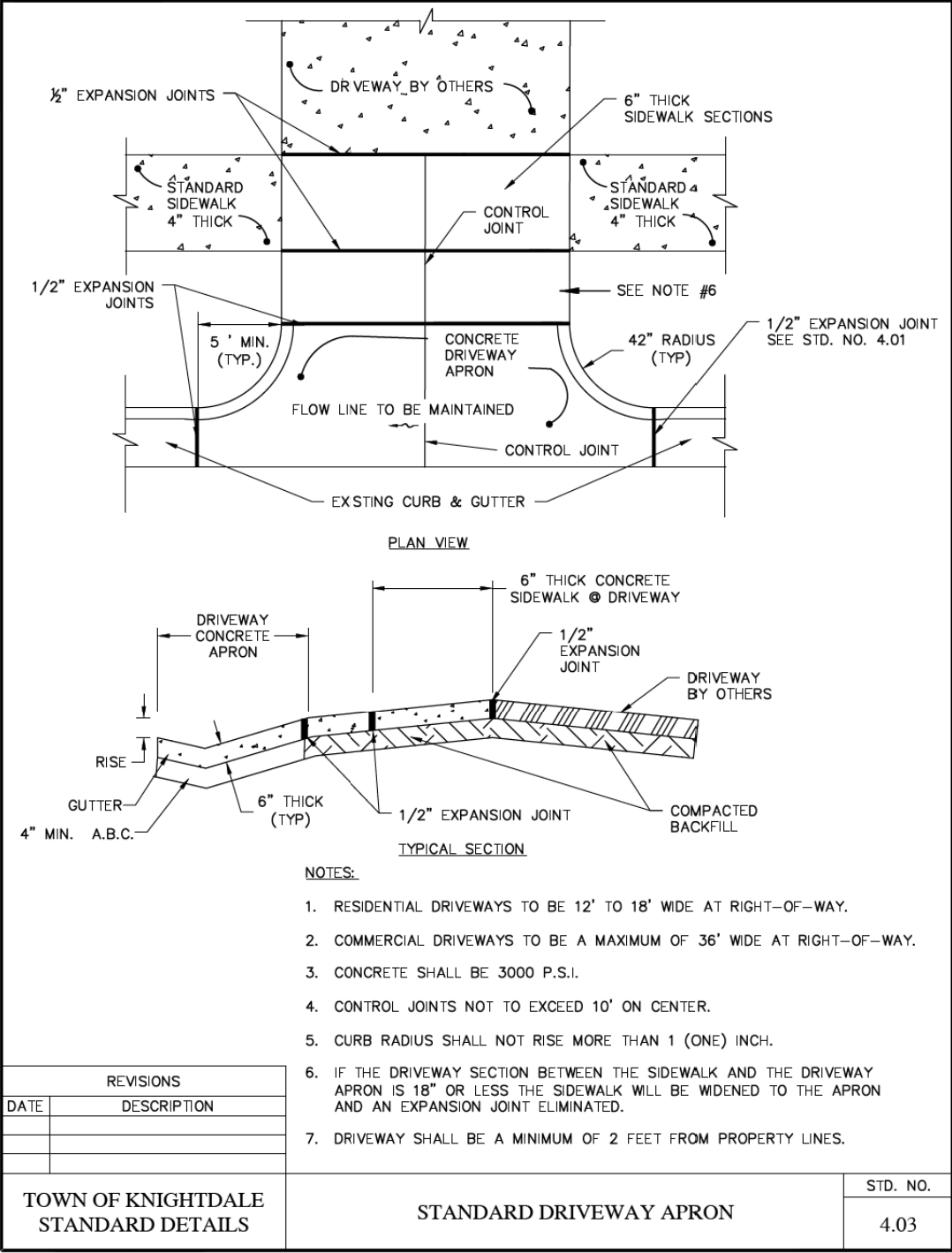
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By: [Signature] Date: 5/20/2026

Town Engineer

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By: [Signature] Date: 5/22/2026

Land Use Administrator

DOMINION ENERGY TO HAVE A REPRESENTATIVE ON SITE DURING CONSTRUCTION NEAR GAS LINES.

SEE PAVEMENT MARKING PLANS FOR PROPOSED CURB RAMP TYPES AND STATIONING.

5/14/2026
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