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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5772	RW01	5

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

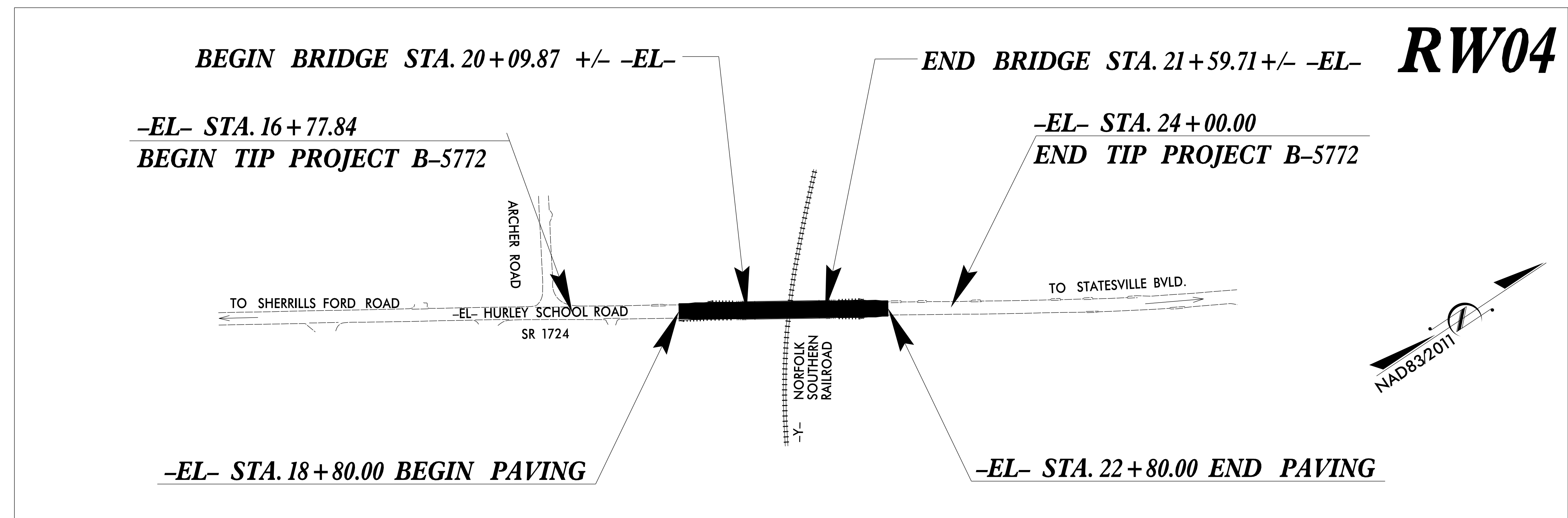
SURVEY CONTROL, EXISTING CENTERLINES,  
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

**ROWAN COUNTY**

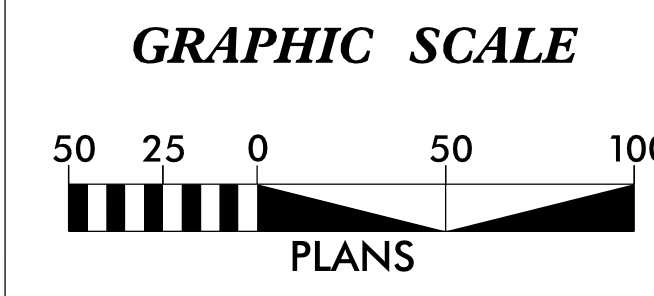
LOCATION: BRIDGE NO. 66 ON SR 1724 (HURLEY SCHOOL ROAD)  
OVER NORFOLK SOUTHERN RAILROAD

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

**TIP PROJECT: B-5772**



**RW04**



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B5772-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 714,491.5654(ft) EASTING: 1,537,705.9664(ft) ELEVATION: 840.5900(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999868353 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5772-2" TO -L- STATION 16+77.84 IS S 34-57'35.94" W 492.87(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88/GEOID G12NC

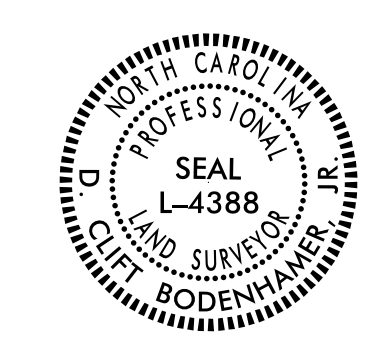
Prepared in the Office of:

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: XXXX/XXXX

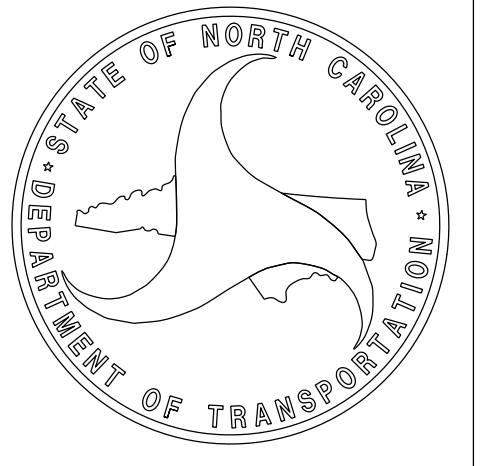
LETTING DATE: XXXX/XXXX

PROFESSIONAL LAND SURVEYOR



DocuSigned by: *Duff Bodenhamer, Jr.*  
SIGNATURE

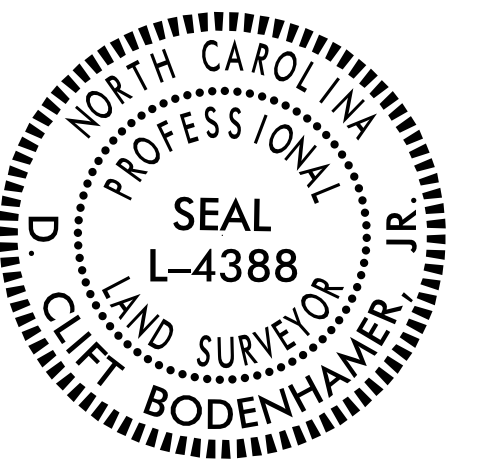
04/06/2022  
Date:



06-APR-2022 13:54 S:\Units\Div09\Winston\Ru+hs Computer\Bridge\B5XXX\B5772\Right of Way Staking\CTL\_SHEETS\ToBeChecked\B5772\_LS\_RW01.dgn jbevington AT LS-312561 09/08/99

Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, D. Clift Bodenhamer, Jr., PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**  
 Type of GPS field procedure: [Static, OPUS, RTN]  
 Dates of survey: April-May 2017  
 Datum/Epoch: NAD 83 / NA 2011  
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]  
 Localized around: B5772-2  
 Northing: 714491.5654  
 Easting: 1537705.9664  
 Combined grid factor: 0.999868353  
 Geoid model: G12NC  
 Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from April 2017 to May 2017, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

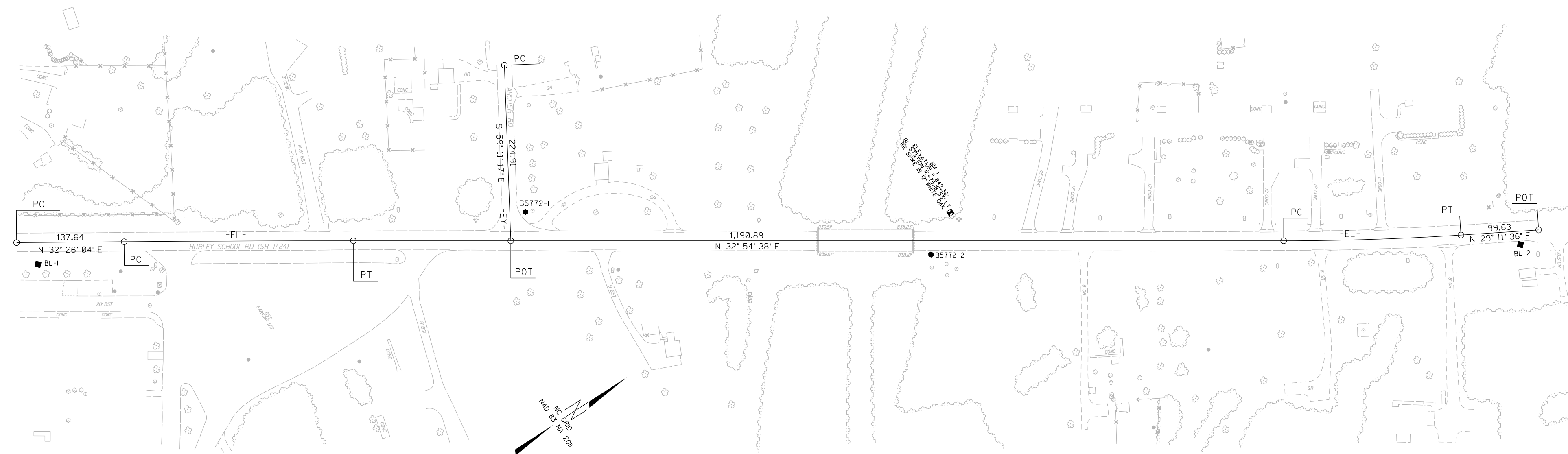
This 4th day of April, 2022.

DocuSigned by:  
  
 552A1608898E411

D. Clift Bodenhamer Jr.  
 Professional Land Surveyor L-4388



SEE SHEET RW02C-2  
 FOR FURTHER  
 ALIGNMENT DETAILS



REVISIONS

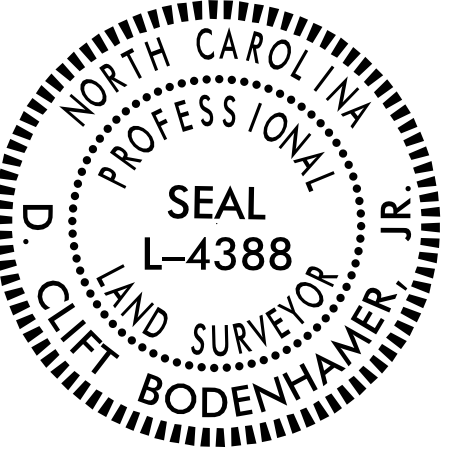
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 Wingston  
 AT LS-312561

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

# SURVEY CONTROL SHEET

*W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION*

PROJECT REFERENCE NO. B-5772	SHEET NO. RW02C-2
<b>Location and Surveys</b>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

### BASELINE CONTROL & BENCHMARK

BL	POINT	DESC.	NORTH	EAST	ELEVATION
	1	BL - 1	713525.1254	1537095.4585	843.67
GPS-1		B5772-1	714085.3734	1537378.0589	843.68
GPS-2		B5772-2	714491.5654	1537705.9664	840.59
	2	BL - 2	715131.9280	1538105.1870	836.30

\*\*\*\*\*  
 BM1            ELEVATION = 842.36  
 N 714542       E 1537674  
 RR SPIKE IN 12" WHITE OAK  
 \*\*\*\*\*

**EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION.  
 PROPOSED CENTERLINE ALIGNMENTS ARE THE SAME AS EXISTING.**

EL	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT		713517.288	1537057.240							
LINE				N 32°26'04.4" E	137.64					
PC		713633.460	1537131.064							
CURVE				N 32°40'21.4" E	293.34	00°28'34.0"(RT)	00°09'44.3"	293.34	146.67	35300.00
PT		713880.380	1537289.417							
LINE				N 32°54'38.4" E	1190.89					
PC		714880.156	1537936.466							
CURVE				N 31°03'07.4" E	227.03	03°43'02.1"(LT)	01°38'13.3"	227.07	113.58	3500.00
PT		715074.656	1538053.573							
LINE				N 29°11'36.3" E	99.63					
POT		715161.629	1538102.168							

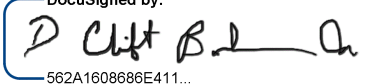
EY	POINT	N	E	BEARING	DIST
POT		714164.814	1537205.774		
LINE				S 59°11'17.4" E	224.91
POT		714049.609	1537398.941		

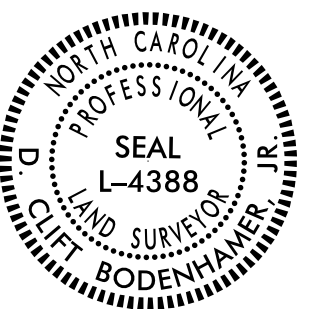
I, D. Clift Bodenhamer, Jr., PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**  
 Type of GPS field procedure: [Static, OPUS, RTN]  
 Dates of survey: April - May 2017  
 Datum/Epoch: NAD 83 / NA 2011  
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]  
 Localized around: B5772-2  
 Northing: 714491.5654  
 Easting: 1537705.9664  
 Combined grid factor: 0.999868353  
 Geoid model: G12NC  
 Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from April 2017 to May 2017, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 4th day of April, 2022.

DocuSigned by:  
  
 202410090902411  
 D. Clift Bodenhamer Jr.  
 Professional Land Surveyor L-4388



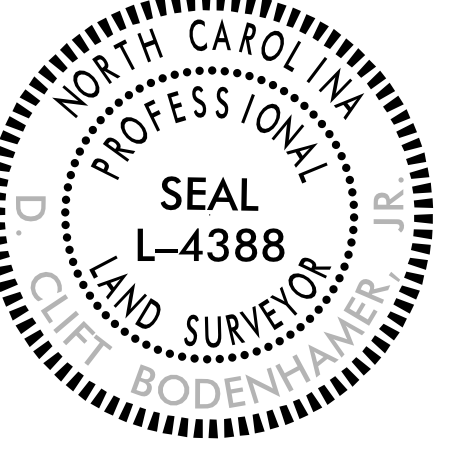
**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

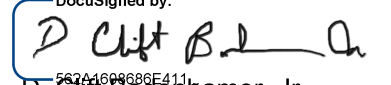


# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. B-5772	SHEET NO. RW04
<b>Location and Surveys</b>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

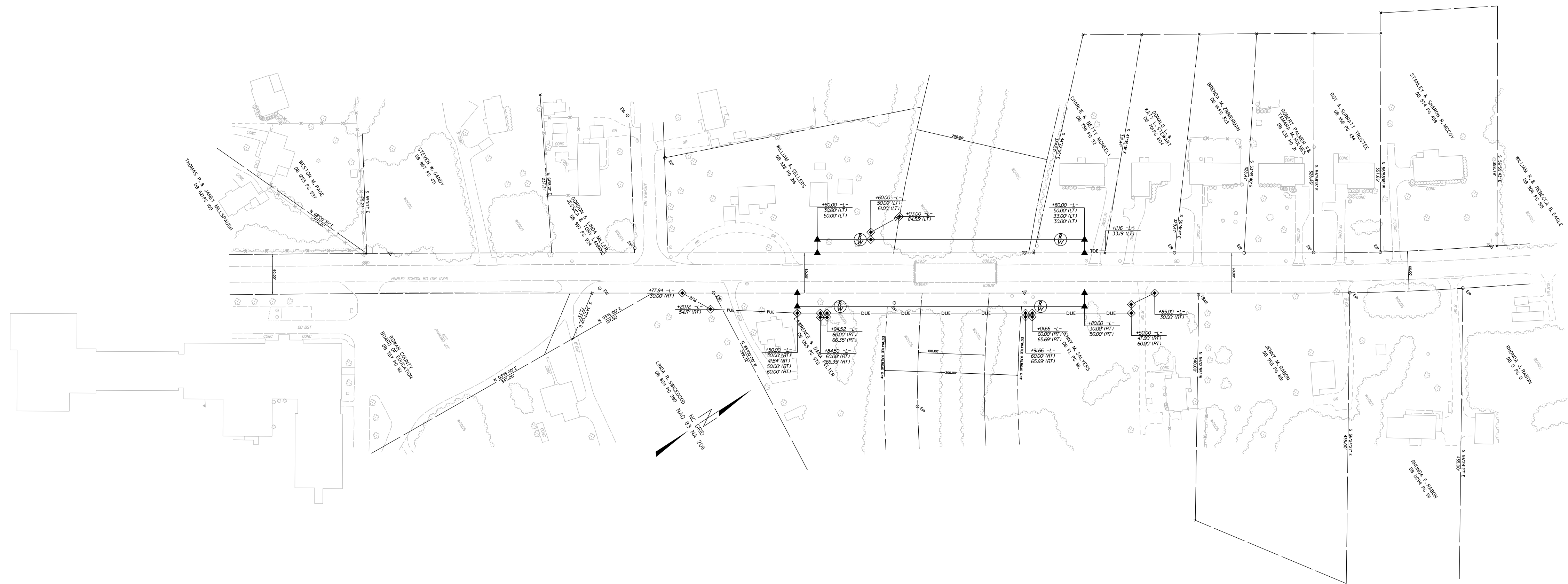
I, D Clift Bodenhamer, Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed on 4/4/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 4th day of April, 2022.

DocuSigned by:  
  
 D. Clift Bodenhamer, Jr.  
 Professional Land Surveyor L-4388



REVISIONS



### NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED \_\_\_\_\_ TO \_\_\_\_\_.

C:\Users\mms\OneDrive\Work\Projects\Bridges\Computer\Bridges\Right of Way\Staking\CTL\_SHEETS\ToBeChecked\B5772-LS-RW04.dgn  
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