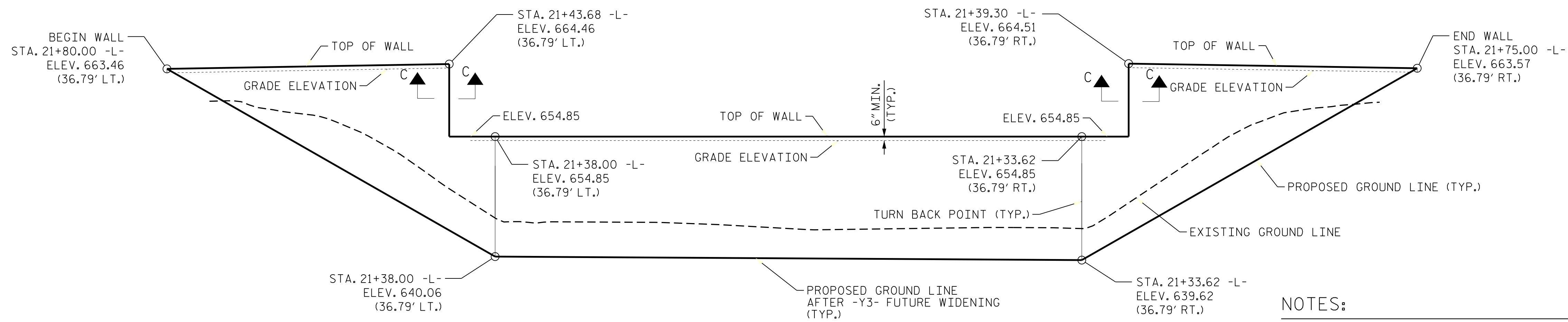


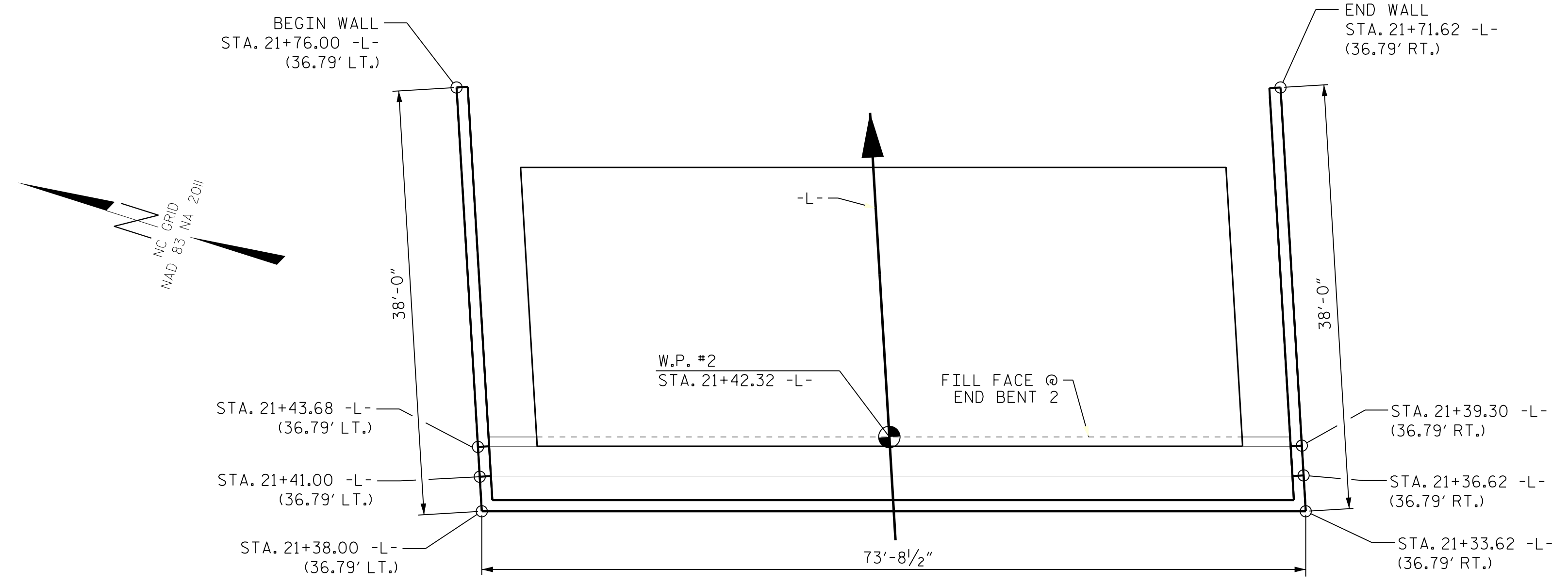
GEOTECHNICAL ENGINEER
 NORTH CAROLINA PROFESSIONAL SEAL 028669
 RICHARD S. WEBB
 Dec designed by: Scott Webb 01/20/2022
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



ELEVATION - MSE WALL NO. 2
 AT END BENT 2
 STATIONS AND OFFSETS GIVEN AT FRONT FACE OF WALL

NOTES:

- FOR MSE ABUTMENT WALLS, SEE MECHANICALLY STABILIZED EARTH ABUTMENT WALLS PROVISION.
- FOR TYPE III REINFORCED BRIDGE APPROACH FILL, SEE BRIDGE APPROACH FILLS PROVISION AND ROADWAY DETAIL DRAWING NO. 422D10.
- FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.
- A SEPARATION GEOTEXTILE IS REQUIRED AT THE BACK OF THE REINFORCED ZONE FOR MSE ABUTMENT WALLS.
- A DRAIN IS REQUIRED FOR MSE ABUTMENT WALLS.
- BEFORE BEGINNING WALL DESIGN FOR MSE ABUTMENT WALLS, VERIFY WALL LOCATION INCLUDING LOCATION OF BRIDGE WINGWALLS. IF NECESSARY, SUBMIT A REVISED WALL PLAN AND PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.
- DESIGN MSE ABUTMENT WALLS FOR A LIVE LOAD (TRAFFIC) SURCHARGE.
- EXISTING OR FUTURE OBSTRUCTIONS SUCH AS GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES MAY INTERFERE WITH REINFORCEMENT FOR MSE ABUTMENT WALLS.
- FOUNDATION FOR END BENT NO. 1, LOCATED AT STATION -L- 23+11, AND END BENT NO. 2, LOCATED AT STATION -L- 24+24.75, WILL INTERFERE WITH REINFORCEMENT FOR RETAINING WALLS NO. 1 & 2. SEE FOUNDATION LAYOUT SHEET FOR FOUNDATION LOCATIONS.
- DESIGN RETAINING WALL NO. 1 AND 2 FOR A LATERAL LOAD FROM FOUNDATIONS LOCATED BEHIND THE MSE WALL APPLIED AS A FACTORED UNIFORM PRESSURE OF 400 PSF TO THE BACK OF PANELS OVER TOP TEN FEET OF WALL. THIS LATERAL LOAD DOES NOT AFFECT PULLOUT.
- DO NOT PLACE LEVELING PAD CONCRETE, AGGREGATE OR REINFORCEMENT FOR MSE ABUTMENT WALLS UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
- AT THE CONTRACTOR'S OPTION, TEMPORARY SHORING FOR WALL CONSTRUCTION MAY BE USED TO CONSTRUCT MSE ABUTMENT WALLS. SEE MSE ABUTMENT WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.
- FOR CONCRETE DITCHES, SEE SECTION 850 OF THE STANDARD SPECIFICATIONS PROVISION.
- COORDINATE WITH BRIDGE CONTRACTOR TO CONSTRUCT VERTICAL COPING FOR MSE ABUTMENT WALLS.
- DO NOT CONNECT MSE WALL REINFORCEMENT TO END BENT CAPS.
- AT THE CONTRACTOR'S OPTION, USE FINE AGGREGATE IN THE REINFORCED ZONE OF RETAINING WALL NO. 1 & 2.
- PILE SLEEVES ARE REQUIRED AROUND PILES FOR END BENT NO. 1 LOCATED AT STATION 20+29.82 AND END BENT NO. 2 LOCATED AT STATION 21+42.32.



PLAN - MSE WALL NO. 2
 STATIONS AND OFFSETS GIVEN AT FRONT FACE OF WALL

PROJECT NO.: B-5737
 ROCKINGHAM COUNTY
 STATION: 20+86.07 -L-
 SHEET 2 OF 4

PREPARED BY: R. WEBB	DATE: 1-22
REVIEWED BY: D. TEAGUE	DATE: 1-22

NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

MSE ABUTMENT WALLS PLAN AND NOTES

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W2
2			4			