

NOTES:

- 1) FOR STANDARD CAST-IN-PLACE (CIP) CANTILEVER RETAINING WALLS, SEE CAST-IN-PLACE CANTILEVER RETAINING WALL SPECIAL PROVISION.
- 2) THIS WALL IS TO RECEIVE ARCHITECTURAL SURFACE TREATMENT. FOR ARCHITECTURAL SURFACE TREATMENT, SEE SPECIAL PROVISIONS.
- 3) FOR ANODIZED 2-BAR METAL RAIL, SEE SPECIAL PROVISIONS.
- 4) FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.
- 5) DRAIN PIPES ARE REQUIRED FOR RETAINING WALL.
- 6) SUBSURFACE INFORMATION IS BASED ON RETAINING WALL BORINGS RW-1 THRU RW-5 PERFORMED BY ECS SOUTHEAST, LLP AS PART OF THE U-5887 (N. HIGHLAND LAKE ROAD) ROADWAY REALIGNMENT PROJECT.
- 7) STANDARD DESIGN OF THE CIP RETAINING WALL IS BASED ON THE FOLLOWING PARAMETERS:
 - A) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 1,620 LBS/SF FOR RETAINING WALL.
 - B) MINIMUM REQUIRED TOE COVER AT FRONT FACE OF RETAINING WALL = 3'-3".
- 8) DESIGN RETAINING WALL FOR A LIVE LOAD (TRAFFIC) SURCHARGE OF 260 LBS./SF.
- 9) DO NOT PLACE CONCRETE FOR FOOTINGS FOR RETAINING WALL UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIALS ARE APPROVED.
- 10) AT THE CONTRACTOR'S OPTION, TEMPORARY SHORING FOR WALL CONSTRUCTION MAY BE USED TO CONSTRUCT RETAINING WALL. SEE CAST-IN-PLACE CANTILEVER RETAINING WALL SPECIAL PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.
- 11) CONTRACTOR SHALL ENSURE THAT THE FOUNDATION BEARING MATERIAL ACHIEVES A MINIMUM BEARING CAPACITY OF 2,500 LBS./SF.

TOTAL RETAINING WALL QUANTITIES		
* CLASS 'A' CONCRETE	358.8	CY
* REINFORCING STEEL	27,083	LBS.
* EPOXY COATED REINFORCING STEEL	4,120	LBS.
ANODIZED TWO BAR METAL RAIL	188.0	LF.
* 4" Ø PERFORATED SCHEDULE 40 PVC DRAINAGE PIPE	196.0	LF.
* 4" Ø SCHEDULE 40 PVC OUTLET PIPE	30.0	LF.
* GEOTEXTILE	109	SY.
* #78M STONE BACKFILL	120	TONS
ARCHITECTURAL SURFACE TREATMENT	1,990	SF.

* THESE QUANTITIES ARE FOR INFORMATION ONLY, WALL SHALL BE PAID FOR PER SQUARE FOOT OF WALL.

** CIP CANTILEVER RETAINING WALLS
978 SQ. FT.

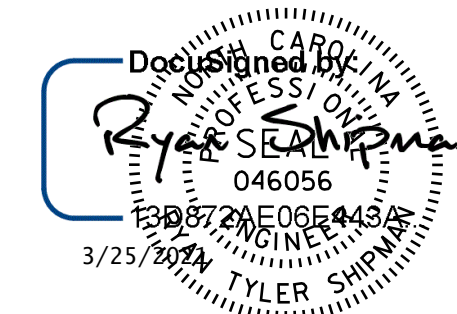
** QUANTITY IS BASED ON TOTAL WALL AREA.

PROJECT NO. U-5887
 HENDERSON COUNTY
 STATION: 11+25.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

RETAINING WALL
 DETAILS



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY: AW DATE: 07/2020
 CHECKED BY: RTS DATE: 07/2020
 ENG. OF RECORD: RTS DATE: 07/2020

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.
W-2
 TOTAL SHEETS
36