


GEOTECHNICAL ENGINEER

ENGINEER



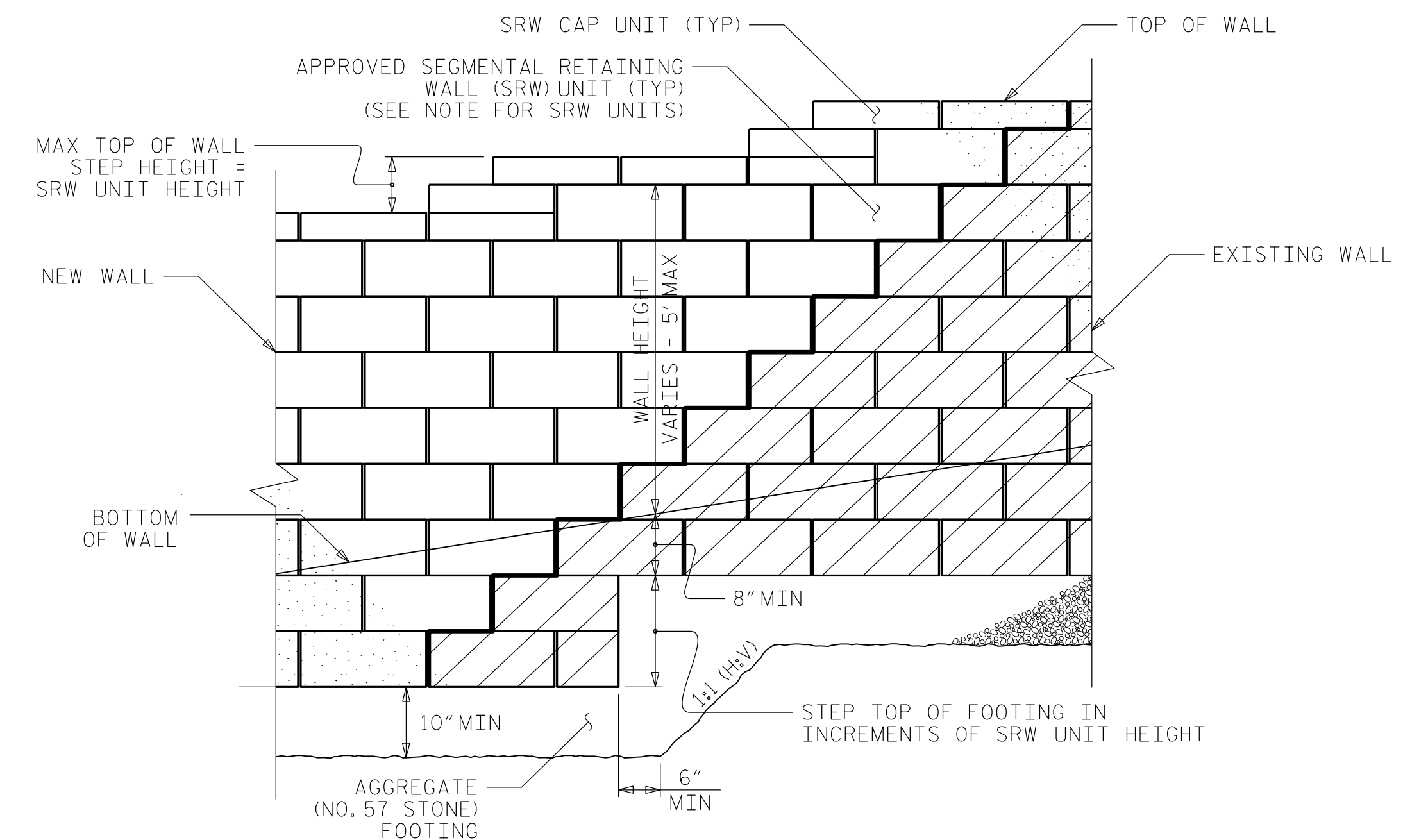
11/15/2024

Shiping Yang

747310E67F76411

SIGNATURE DATE SIGNATURE DATE

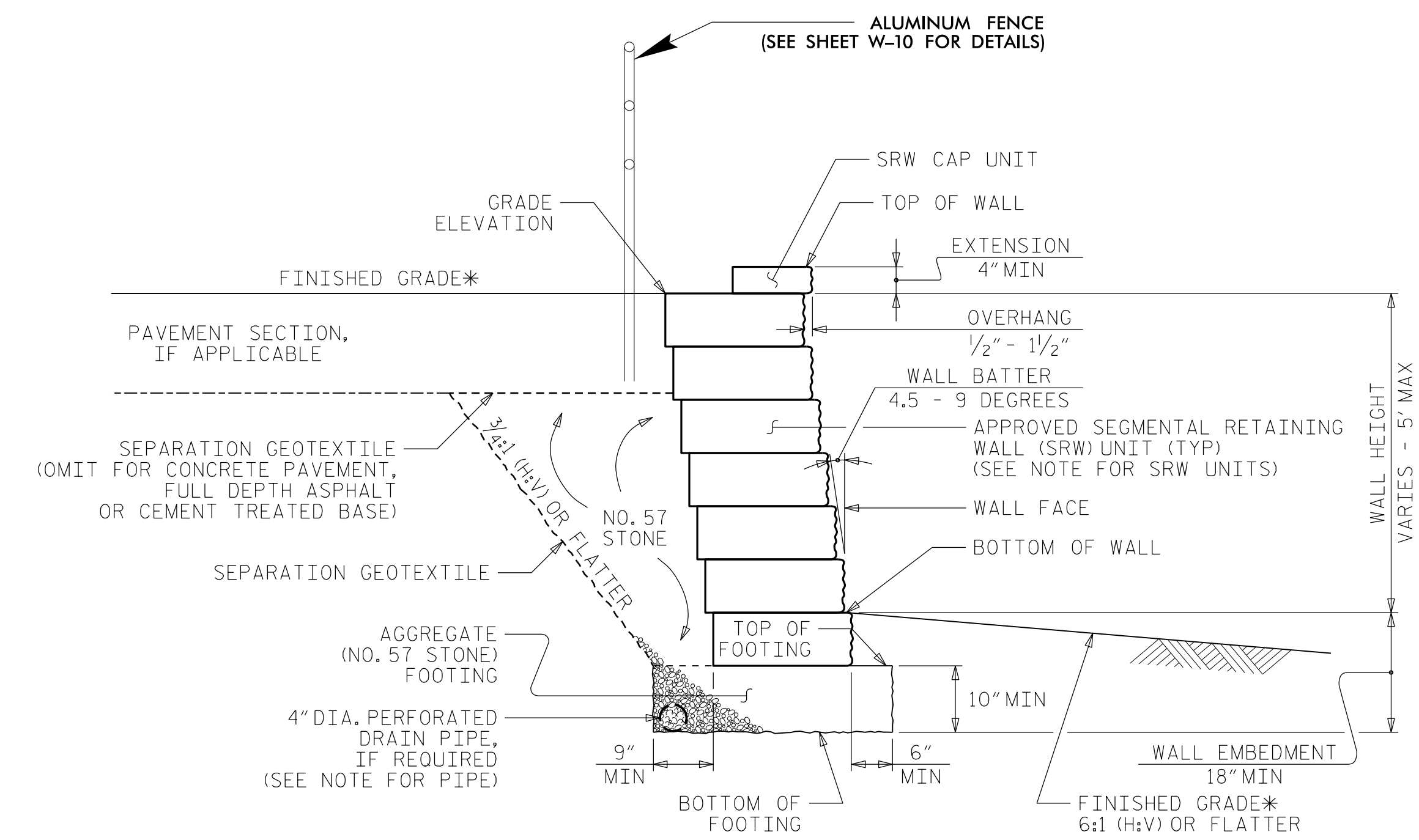
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



STANDARD SEGMENTAL GRAVITY WALL - CONNECTION DETAIL

NOTES:

- FOR STANDARD SEGMENTAL GRAVITY RETAINING WALLS, SEE SECTION 454 OF THE STANDARD SPECIFICATIONS.
- A DECORATIVE ALUMINUM FENCE IS REQUIRED ON TOP OF RETAINING WALL NO. 4. SEE ROADWAY PLANS FOR FENCE ATTACHMENT DETAILS.
- DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS FOR INTERSTATE HIGHWAY OR RAILROAD PROJECTS.
- DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN SURCHARGE LOADS WILL BE WITHIN 5'-6" OF THE BACK OF SRW CAP UNITS FOR WALL HEIGHTS UP TO 4' AND WITHIN 10' OF THE BACK OF SRW CAP UNITS FOR WALL HEIGHTS GREATER THAN 4' TO 5'.
- DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK
- DECONSTRUCT PART OF THE EXISTING BLOCK WALLS AS SHOWN ON PLANS FOR RETAINING WALL NOS. 1&2. RECONSTRUCT THE NEW WALLS WITH THE EXISTING BLOCKS OR BLOCKS THAT MATCH THE EXISTING BLOCKS.
- SEGMENTAL RETAINING WALL (SRW) UNITS ARE APPROVED FOR EITHER 2' OR 5' MAXIMUM WALL HEIGHTS. FOR DETAILS AND DIMENSIONS OF APPROVED SRW UNITS AND MAXIMUM WALL HEIGHTS, SEE connect.ncdot.gov/resources/Geological/Pages/Products.aspx
- DO NOT MIX APPROVED SRW UNITS FROM DIFFERENT VENDORS ON THE SAME STANDARD SEGMENTAL GRAVITY WALL. USE THE SAME SIZE APPROVED SRW UNITS FOR EACH WALL SECTION.
- BEFORE BEGINNING STANDARD SEGMENTAL GRAVITY WALL CONSTRUCTION, SURVEY WALL LOCATIONS AND SUBMIT WALL PROFILE VIEWS (WALL ENVELOPES) FOR REVIEW. FOR WALL ENVELOPES, INCLUDE BOTTOM OF WALL, EXISTING GROUND AND GRADE ELEVATIONS AND OTHER ELEVATIONS AS NEEDED AT INTERVALS OF 25' OR LESS ALONG WALLS. DO NOT START WALL CONSTRUCTION UNTIL WALL ENVELOPES ARE ACCEPTED.
- A DRAIN PIPE IS REQUIRED IF GROUNDWATER IS ABOVE BOTTOM OF FOOTINGS.
- DO NOT PLACE NO. 57 STONE FOR FOOTINGS UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
- WHERE REQUIRED, REMOVE EXISTING WALL UNITS AS SHOWN IN CONNECTION DETAIL AND CONSTRUCT NEW WALL AS SHOWN IN PLANS OR DIRECTED BY THE GEOTECHNICAL OPERATIONS ENGINEER.



STANDARD SEGMENTAL GRAVITY WALL WITHOUT SLOPE

*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

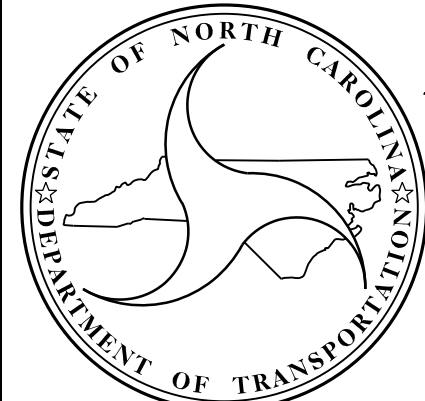
PROJECT NO.: U-5536

FORSYTH COUNTY

STATION: SEE WALL ENVELOPES

SHEET 6 OF 10

PREPARED BY: SY	DATE: 10/2024
REVIEWED BY: SCC	DATE: 10/2024



**NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**GEOTECHNICAL
ENGINEERING UNIT**

REVISIONS						SHEET NO. W-6
NO.	BY	DATE	NO.	BY	DATE	
1	SY	11/2024	3			
2			4			

**RETAINING WALL NOS. 1 THRU 4&6
STANDARD SEGMENTAL
GRAVITY WALL
NOTES & DETAIL**