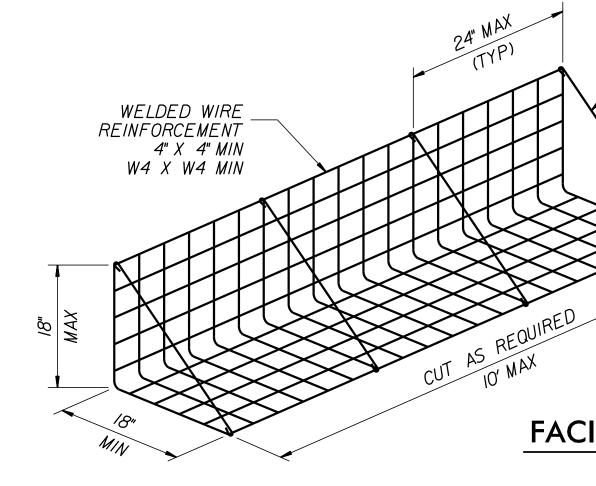
CONSTRUCTION SEQUENCE FOR REINFORCED RETAINING WALL BACKFILL:

- INSTALL GALVANIZED PZ27 OR EQUIVALENT SHEET PILES PRIOR TO CONSTRUCTING REINFORCED RETAINING WALL BACKFILL.
- 2. CONTROL DRAINAGE DURING CONSTRUCTION IN THE VICINITY OF THE REINFORCED RETAINING WALL BACKFILL.
- 3. COLLECT AND DIRECT RUNOFF AWAY FROM THE RETAINING WALL BACKFILL.
- 4. EXCAVATE AS NECESSARY TO CONSTRUCT BOTTOM OF REINFORCED RETAINING WALL BACKFILL TO THE ELEVATION SHOWN ON THE PLANS. UNDERCUT AS SHOWN ON ROADWAY PLANS. PLACE GEOTEXTILE OR GEOGRID REINFORCEMENT AT LOCATIONS SHOWN ON SHEETS W-I AND W-2 AND ELEVATIONS SHOWN ON SHEET W-3 AND IN SLIGHT TENSION FREE KINKS, FOLDS, WRINKLES OR CREASES.
- 5. INSTALL TEMPORARY SHORING BETWEEN STATIONS -LI- 19+50 AND -LI- 20+75.
- 6. RETENTION GEOTEXTILE SHALL MEET THE REQUIREMENTS OF TYPE 2 GEOTEXTILE AS SHOWN IN TABLE 1056-1 OF THE STANDARD SPECIFICATIONS.
- 7. ERECT WELDED WIRE FORMS AS SHOWN ON SHEET W-4 AND W-5.
- 8. STAGGER VERTICAL JOINTS OF WELDED WIRE FORMS TO CREATE A RUNNING BOND.
- 9. PLACE WELDED WIRE FORMS AS NEAR TO VERTICAL AS POSSIBLE WITH NO NEGATIVE BATTER. CONSTRUCT REINFORCED RETAINING WALL BACKFILL WITH A MAXIMUM VERTICAL AND HORIZONTAL TOLOERANCE OF 3" WHEN MEASURED WITH A 10'-O" STRAIGHT EDGE AND AN OVERALL PLUMBNESS (BATTER) AND HORIZONTAL ALIGNMENT OF LESS THAN 6".
- IO. DO NOT SPLICE OR OVERLAP GEOTEXTILE REINFORCEMENT IN THE MACHINE DIRECTION (MD). i.e. PERPENDICULAR TO THE REINFORCED RETAINING WALL BACKFILL FACE. OVERLAPS ONLY ARE ALLOWED IN THE CROSS-MACHINE DIRECTIONS (CMD).
- II. PLACE BACKFILL WITHIN RETAINING WALL IN 8" TO IO" THICK LIFTS AND COMPACT IN ACCORDANCE WITH SUBARTICLE 235-3(C) OF THE STANDARD SPECIFICATIONS. USE ONLY HAND OPERATED COMPACTION EQUIPMENT WITHIN 3'-O" OF THE REINFORCED RETAINING WALL BACKFILL FACE.
- 12. WRAP GEOTEXTILE OR GEOGRID REINFORCEMENT AT VERTICAL CORNERS AS DIRECTED BY THE ENGINEER.
- 13. DO NOT DAMAGE GEOTEXTILE OR GEOGRID REINFORCEMENT OR WELDED WIRE FORMS WHEN PLACING AND COMPACTING BACKFILL. DO NOT OPERATE HEAVY EQUIPMENT ON GEOTEXTILE OR GEOGRID REINFORCEMENT UNTIL IT IS COVERED WITH AS LEAST 8" OF BACKFILL. DO NOT USE SHEEPSFOOT.GRID ROLLERS OR OTHER TYPES OF COMPACTION EQUIPMENT WITH FEET.
- 14. CONSTRUCT RETAINING WALL THE TOP OF WALL ELEVATION SHOWN ON THE PLANS AND ALLOW THEM TO SIT IDLE FOR A MINIMUM OF 30 DAYS PRIOR TO FILLING SPACE BETWEEN FACE OF THE RETAINING WALL AND BACK OF SHEET PILING WITH CLASS VISELECT MATERIAL.

NOTES FOR SHEET PILE WALLS:

- I. FOR STEEL SHEET PILES SEE SHEET PILE WALL SPECIAL PROVISION.
- 2. INSTALL SHEET PILING TO THE MINIMUM DEPTH SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 3. SHEET PILING SHALL BE PZ-27 OR EQUIVALENT.
- 4. USE A CONCRETE COPING ON TOP OF THE SHEET PILE RETAINING WALLS AS SHOWN IN THE PLANS AND IN ACCORDANCE WITH SECTION 420 OF THE STANDARD SPECIFICATIONS.
- 5. STEEL SHEET PILES SHALL MEET ASTM A572 OR A690 SPECIFICATIONS.
- 6. STEEL SHEET PILES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD SPECIFICATIONS. 7. AFTER FIELD WELDING.OR IF GALVANIZING ON MEMBERS IS DAMAGED.REPAIR DAMAGED GALVANIZED SURFACES IN
- ACCORDANCE WITH ARTICLE 1076-7 OF THE STANDARD SPECIFICATIONS.



PREPARED BY: K. HILL	DATE: 01/14/20
REVIEWED BY: S. LANEY	DATE: 01/14/20

2. RETAINING WALLS ARE DESIGNED FOR MAXIMUM FACTORED VERTICAL PRESSURE ON FOUND 3. USE CLASS II, TYPE I, CLASS III, CLASS V, OR CLASS VI SELECT MATERIAL FOR REINFORCED F DO NOT USE CLASS VI SELECT MATERIAL IN THE REINFORCED RETAINING WALL BACKFILL WI 4. AT THE CONTRACTOR'S OPTION, REINFORCEMENT MAY BE INSTALLED WITH THE MD PARALL IF BOTH OF THE FOLLOWING CONDITIONS OCCUR: a. W (REINFORCEMENT ROLL WIDTH) ≥ 15' b. REINFORCEMENT STRENGTH IN CD ≥ MINIMUM REQUIRED REINFORCEMENT STRENGTH IN 5. DO NOT PLACE WELDED WIRE FACING, BACKFILL OR REINFORCEMENT UNTIL EXCAVATION DIM 6. DO NOT SPLICE OR OVERLAP REINFORCEMENT SO SEAMS ARE PARALLEL TO THE WALL FA 7. CONTACT THE ENGINEER WHEN EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATION OR UTILITIES WILL INTERFERE WITH REINFORCEMENT. 8. "TEMPORARY SHORING" IS REQUIRED FOR RETAINING WALL NO. I BETWEEN STATIONS 19+50 AND WITH THE TEMPORARY SHORING PROVISION.SEE TRAFFIC CONTROL PLANS. WELDED WIRE FACING (TYP) WIRES OMITTED FOR CLARITY SEE FACING DETAIL FACING HEIGHT 18" MAX (TYP) FACING LENGTH IO' MAX (TYP) SEPARATION GEOTE STRUT (TYP) W4 MIN REINFORCED RETAINING – USE A STRUT AT EACH END OF FACING REGARDLESS OF LENGTH CUT SLITS IN GEOTEXTILES *SEE GEOSY PERPENDICULAR TO WALL FACE **SEE REINFOR FOR STRUTS DEPARTM FACING DETAIL DIVIS 9751 SOUTHERN PINE BLVD CHARLOTTE, NC 28273 (704) 523-4726 GŁ ||| =**ENGI**

				GEOTECHNICAL ENGINEER	ENGINEER		
NOTE	S FOR REINFORCED RETAINING	WALL BACKFILL:		TH CAROL			
I. FOR	FOR REINFORCED RETAINING WALL BACKFILL, SEE REINFORCED RETAINING WALL BACKFILL SPECIAL PROVISIONS.						
2. RET.	TAINING WALLS ARE DESIGNED FOR MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 3,700 PSF.						
	CLASS II, TYPE I, CLASS III, CLASS V, OR CLASS VI SELECT MATERIAL FOR REINFORCED FILLS. NOT USE CLASS VI SELECT MATERIAL IN THE REINFORCED RETAINING WALL BACKFILL WITH GEOTEXTILE REINFORCEMENT						
IF E a. W	THE CONTRACTOR'S OPTION, REINFORCEMENT MAY BE INSTALLED WITH THE MD PARALLEL TO THE WALL FACE BOTH OF THE FOLLOWING CONDITIONS OCCUR: W (REINFORCEMENT ROLL WIDTH) ≧ 15' REINFORCEMENT STRENGTH IN CD ≧ MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD.						
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6. DO N	NOT SPLICE OR OVERLAP REINFORCEMENT SO SEAMS	S ARE PARALLEL TO THE WALL FACE	•				
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	WELDED WIRE FACING (TYP) WIRES OMITTED FOR CLARITY SEE FACING DETAIL				REINFORCEMENT		
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			F	PROJECT NO.: <u>B-4484</u>			
			-		CRAVEN COUNTY		
				STATION: <u>-L1- STA. 19+</u> -L1- STA. 28+			
			RTH CAROLINA	NOTES	FOR		
	9751 SOUTHERN PINE BLVD	DIVISION OF HIGHWAYS		SHEET PILE RETAINING WALL AND REINFORCED BACKFILL			
	CHARLOTTE, NC 28273 (704) 523-4726 GEOTECHNICAL						
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