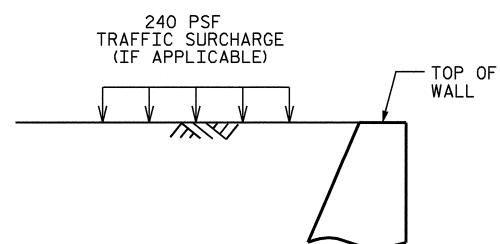
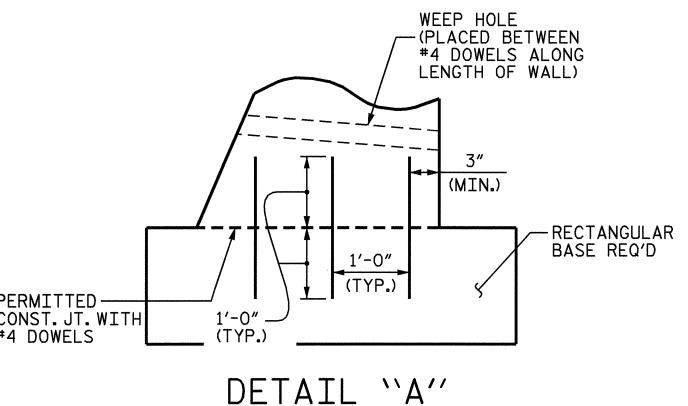


B/H RATIO

\* KEY IS REQUIRED FOR NO SLOPE CONDITION WITH TRAFFIC SURCHARGE.



NO SLOPE CONDITION



NOTES

FOR GRAVITY RETAINING WALLS, SEE SECTION 453 OF THE STANDARD SPECIFICATIONS.

THE GRAVITY RETAINING WALL IS BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS: TOTAL UNIT WEIGHT = 120 PCF

COHESION = 0 PSF FRICTION ANGLE = 35 DEGREES

(GROUNDWATER WITHIN 5'-0"OF BOTTOM OF FOOTING)
FRICTION ANGLE = 30 DEGREES
(GROUNDWATER MORE THAN 5'-0"BELOW BOTTOM OF FOOTING)

DO NOT USE A GRAVITY RETAINING WALL IF THE ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE OR GROUNDWATER IS ABOVE THE BOTTOM OF FOOTING.

DO NOT USE A GRAVITY RETAINING WALL WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS PRESENT BELOW THE WALL.

DO NOT PLACE CONCRETE UNTIL OBTAINING APPROVAL OF THE EXCAVATION DEPTH AND CHECKING FOUNDATION MATERIAL FOR IN-SITU ASSUMED SOIL PARAMETERS.

USE CLASS "A" CONCRETE AND PROVIDE CLASS I SURFACE FINISH FOR ALL EXPOSED SURFACES.

PROVIDE 3"DIAMETER WEEP HOLES ON 10'-0"CENTERS ALONG WALL. SLOPE WEEP HOLES ON A 1"PER FOOT SLOPE THROUGH THE WALL SO THAT WATER DRAINS OUT OF THE FRONT OF THE WALL.

CONSTRUCT A HORIZONTAL DRAIN IN SUBDRAIN FINE AGGREGATE AT LEAST 1'-0" TALL AND 1'-0" WIDE TO CONNECT ALL STONE DRAINS.

PROVIDE GROOVED CONTRACTION JOINTS EVERY 10'-0" AND EXPANSION JOINTS EVERY 30'-0" ALONG THE WALL.

DO NOT BACKFILL BEHIND WALL UNTIL CONCRETE DEVELOPS A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. COMPACT BACKFILL IN ACCORDANCE WITH SUBARTICLE 235-4(C) OF THE STANDARD SPECIFICATIONS. PLACE BACKFILL WITHIN 3'-0" OF THE BACK OF THE WALL WITH HAND OPERATED EQUIPMENT. DO NOT OPERATE HEAVY EARTH MOVING EQUIPMENT WITHIN 10'-0" OF THE BACK OF WALL.

WHEN A CONSTRUCTION JOINT IS LOCATED AT THE BASE OF THE WALL, IN SECTION, PROVIDE A MINIMUM OF 3-#4 DOWELS AT AN EQUAL SPACING. SPACE ALL DOWELS AT 1'-6" CENTERS ALONG THE LENGTH OF THE WALL.

FOR PLAN VIEW OF GRAVITY RETAINING WALL, SEE ROADWAY PLAN SHEETS.

FOR WALL WITH FENCE, USE SLEEVES IN ACCORDANCE WITH SECTION 866 OF THE STANDARD SPECIFICATIONS FOR FENCE POSTS, OR SUBMIT FENCE POST ANCHOR PLATE DETAILS.

CONCRETE GRAVITY WALL NO.1				
-L- STA.	△ OFFSET FROM ℚ -L- TO POINT A	ELEV.@ TOP OF WALL	ELEV.@ BOTTOM OF FOOTING	WALL HEIGHT
19+49.77	37.000	874.750	865.253	9.497
19+50.00	37.000	874.751	865.247	9.504
20+00.00	37.000	874.986	865.021	9.965
20+50.00	37.000	875.221	865.182	10.039
20+88.77	37.000	875 <b>.</b> 275	865.306	9.969

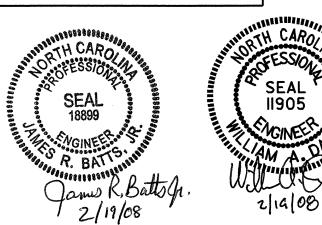
BILL OF MATERIAL FOR WALL NO.1

CONCRETE GRAVITY WALL NO.1

966.0 S.F

APPROXIMATE CLASS A CONCRETE QUANTITY FOR CONCRETE GRAVITY WALL NO.1

201.4 C.Y.



PROJECT NO. U-2702

RANDOLPH/GUILFORD COUNTY

STATION: 19+46.77 -L-

SHEET 1 OF 2

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION
RALEIGH

GRAVITY RETAINING WALL #1

 REVISIONS
 SHEET NO.

 NO.
 BY:
 DATE:
 W-1

 1
 3
 TOTAL SHEETS

 2
 4
 2

Neil M.Ruffin

CHECKED BY : W. A. DAVÍS

\_ DATE : <u>2/14/08</u> \_ DATE : <u>2/14/08</u>

