STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP00-0011-01(053)	456	749

GEORGIA STANDARDS

BAR BENDING DETAILS ---------- GA. STD. 3901 (8-69)

PIPE HANDRAIL FOR RETAINING WALL ---------- GA. STD. 9031R (5-18-99)

DESIGN DATA

SPECIFICATIONS ---------- AASHTO 17TH EDITION, 2002

CONCRETE ---------- CLASS A, f'_c = 3,000 PSI

REINFORCEMENT STEEL ---------- GRADE 60, f_y = 60,000 PSI

DESIGN SOIL PRESSURE ---------- 4000 LBS/SQ. FT.

COHESION ---------- 0 PSF

ANGLE OF INTERNAL FRICTION ---------- 30°

UNIT WEIGHT ---------- 120 PCF

COEFFICIENT OF SLIDING FRICTION ---------- 0.38

NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS. STEM LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH CONTRACTION JOINTS. LONGITUDINAL FOOTING AND KEY REINFORCING SHALL BE CONTINUOUS BETWEEN EXPANSION JOINTS.

FINISH - FINISH EXPOSED SURFACES OF THE WALL WITH A TYPE III FINISH.

GRAFFITI PROOF COATING - APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GEORGIA DOT SPECIFICATIONS.

CONCRETE COVER - MAINTAIN 3 INCHES COVER ON ALL FOOTING AND KEY REINFORCING STEEL AND 2 INCHES COVER ON ALL STEM REINFORCING.

BACKFILL - PLACE BACKFILL ON FRONT FACE SIDE OF WALL BEFORE BACKFILLING BACK FACE OF WALL.

STATIONS AND OFFSETS - STATIONS SHOWN ARE ALONG CL VETERANS PARKWAY OR CL OLD MOON ROAD. OFFSETS SHOWN ARE MEASURED TO THE FRONT FACE OF WALL.

TEMPORARY SHORING - PROVIDE TEMPORARY SHORING AS NECESSARY FOR WALL CONSTRUCTION.

GEOCOMPOSITE WALL DRAIN - A GEOCOMPOSITE WALL DRAIN, SELECTED FROM THE GEORGIA DOT QUALIFIED PRODUCTS LIST, IS AN ACCEPTABLE SUBSTITUTE FOR THE SAND BLANKET SHOWN IN THE DRAINAGE DETAILS.

NOTES, CONT.

WALL JOINTS - EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL STEM AND FOOTING. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30'-0" AND EXTEND THROUGH THE WALL STEM ONLY.

JOINTS IN WALL FORMS - SUPPORT JOINTS IN WALL FORMS WITH BACKING STRIPS TO PROVIDE A FLUSH SURFACE IN THE FINISHED WALL FACE.

FOOTING EXCAVATION - EXCAVATE FOR SPREAD FOOTINGS WITH CARE TO PREVENT UNDERCUTTING. ROCK EXCAVATION WILL BE REQUIRED. PLACE FOOTINGS ON UNDISTURBED SOIL/ROCK.

KEY EXCAVATION - EXCAVATE FOR KEY AS NEAR PLAN DETAILS AS PRACTICAL. ROCK EXCAVATION WILL BE REQUIRED. POUR KEY AGAINST UNDISTURBED SOIL/ROCK WITHOUT FORMS.

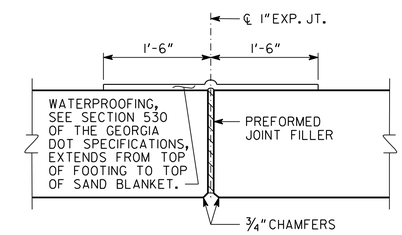
VIBRATION MONITORING - THE PROJECT ENGINEER SHOULD CONTACT THE GEORGIA DOT OFFICE OF MATERIALS AND TESTING AT 404-608-4720 TWO WEEKS PRIOR TO WALL CONSTRUCTION/BLASTING.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

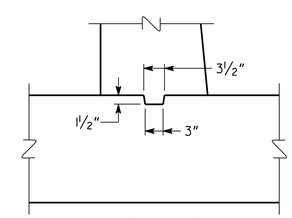
INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF JOINT FILLERS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	347 ~~547~~	CY	CLASS A CONCRETE, RETAINING WALL
511-1000	57961 ~~98624~~	LB	BAR REINF STEEL
515-2020	165	LF	GALV STEEL PIPE HANDRAIL, 2 IN, ROUND
530-0105	33	SY	WATERPROOFING

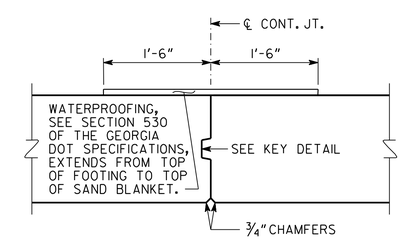


DETAIL OF EXPANSION JOINT



(FOR USE IN FOOTING AND CONTRACTION JOINT.)

SHEAR KEY DETAIL



DETAIL OF CONTRACTION JOINT

USE ON CONSTRUCTION

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RETAINING WALL NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

SPECIAL DESIGN RETAINING WALL NOTES
SR 1/US 27/VETERANS PKWY FROM OLD MOON ROAD TO TURNBERRY LANE
MUSCOGEE COUNTY STP00-0011-01(053)

NO SCALE MARCH 2014

REVISIONS	BY	DATE
RAISED FOOTING AND CHANGED SECTION	LSW	05-19-14

DRAWING NO. 32-002
JOB NO. 2090.033
WALL SHEET 2 OF 4

DESIGNED LSW CHECKED DEB REVIEWED DLC/WMD
DRAWN RAR DESIGN GROUP DDF APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE