

ALTERNATE:
WIRE FABRIC REINFORCING OR ALTERNATE REBAR
SIZE/SPACING MAY BE USED INSTEAD OF SPECIFIED
REBARS IF DETAILS ARE SUBMITTED TO & APPROVED
BY THE GA. D.O.T. PRIOR TO USE.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. ALL CONCRETE SHALL BE CLASS "AA". REINFORCING STEEL SHALL BE GRADE 60. EXPOSED CONCRETE SURFACES SHALL RECEIVE A TYPE III FINISH. SEE SECTION 500.
3. CONSTRUCTION TOLERANCE - THE TOP SURFACE SHALL BE CHECKED FOR GRADE AND ALIGNMENT AND ANY VARIATION FROM THE ESTABLISHED LINE AND GRADE, GREATER THAN 1/4" IN 10'-0", WHEN CHECKED WITH A STRAIGHT EDGE OF NOT LESS THAN 10'-0" IN LENGTH, SHALL BE REMOVED AND RESET AS DIRECTED BY THE ENGINEER.
4. CONSTRUCTION METHOD-
A. CAST-IN-PLACE (RIGID FORMS)
- (1.) THE MEDIAN BARRIER SHALL BE PLACED ON A BASE OF THE SAME MATERIAL AND THICKNESS AS THE ADJACENT TRAVEL LANES. SEE SECTION 209 AND TYPICAL SECTIONS.
- (2.) FORMS SHALL BE SO CONSTRUCTED AND ANCHORED AS NOT TO "FLOAT UP" OR BE DISPLACED DURING CONSTRUCTION AND THE LINE AND GRADE ESTABLISHED SHALL BE MET WITHIN TOLERANCES SPECIFIED.
- (3.) EXPANSION JOINTS ARE REQUIRED IN ALL BARRIER TYPES AT A MAXIMUM SPACING OF 300'. A 1" PREFORMED JOINT FILLER SHALL BE USED AT THE EXPANSION JOINTS. GALVANIZED 10d NAILS SHALL BE USED TO INSTALL EXPANSION MATERIAL. CONTRACTION JOINTS SHALL BE PLACED AT EVERY 20'. CONTRACTION JOINTS MAY BE SAWED. IF SAWED JOINTS ARE USED, THEY SHALL BE 1/4" WIDE AND TO THE DEPTH SHOWN IN THE DETAILS. THE SAWED JOINT SHALL BE DONE WITHIN 24 HOURS OF PLACEMENT OF THE BARRIER.
- (4.) NO JOINT SHALL BE CLOSER TO A LIGHT STANDARD OR SIGN POST THAN 5'. JOINTS SHALL BE EQUALLY SPACED ABOUT THE LIGHT STANDARD OR SIGN POST CENTERLINE. ADJUST ADJACENT JOINTS TO A BALANCED SPACING FOR A PLEASING APPEARANCE. AN EXPANSION JOINT IS REQUIRED 5' EACH SIDE OF EACH LIGHT STANDARD.
- (5.) CAST IN PLACE MEDIAN BARRIER MAY BE CONSTRUCTED IN MORE THAN ONE POUR. THIS METHOD WILL REQUIRE KEVED CONSTRUCTION JOINTS AS SHOWN. OTHER CONSTRUCTION JOINTS MAY BE APPROVED BY THE ENGINEER.
- B. CAST-IN-PLACE (SLIP FORM):
1. NOTES 4A.1, 4A.3, 4A.4 AND 4A.5 SHALL APPLY TO THE SLIP FORM METHOD OF CONSTRUCTION
5. REINFORCEMENT STEEL, WHERE REQUIRED
- A. BARRIER: ALL LONGITUDINAL STEEL SHALL BE CONTINUOUS EXCEPT: REQUIRED STOPS AT EXPANSION JOINTS; AND OPTIONAL STOPS NOT CLOSER THAN 100', AT SELECTED CONTRACTION JOINTS.
- B. GLARE SCREEN: ALL LONGITUDINAL REINFORCING STEEL TO BE NO. 5 BARS CONTINUOUS THROUGHOUT THE FULL LENGTH OF THE GLARE SCREEN, EXCEPT ACROSS EXPANSION JOINTS, THROUGH LIGHT STANDARDS AND SIGN POSTS.
- C. LONGITUDINAL REINFORCEMENT SHALL BE LAP SPICED 2'-4". VERTICAL REINFORCEMENT SHALL BE LAP SPICED 2'-4". LONGITUDINAL STEEL SHALL HAVE 2" CLEAR AT EXPANSION JOINTS.
6. ALL GLARE SCREENS REQUIRE #4 VERTICAL BARS FIRMLY BONDED INTO BARRIER TOP. VERTICAL BARS MAY BE "D" BARS AT 18" MAX. SPACINGS OR STRAIGHT DOWELS AT 24" MAX. SPACINGS. VERTICAL BARS SHALL BE EQUALLY SPACED BETWEEN JOINTS. DRILLING IS REQUIRED IN EXIST. BARRIERS.
7. TYPE S-1, S-2, AND S-3 MEDIAN BARRIERS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017. THE BARRIERS INCLUDED IN THE DESIGN HAVE BEEN CERTIFIED BY THE DEPARTMENT TO SATISFY MASH TL-4 REQUIREMENTS FOR PROJECTS IN GEORGIA.
8. IF OVERHEAD SIGN SUPPORTS ARE TO BE PLACED ON TOP OF THE BARRIER, THE FOOTING SHALL BE INCORPORATED AS AN INTEGRAL PART OF THE BARRIER. THE DESIGN OF THE SIGN SUPPORT FOOTING SHALL BE DESIGNED BY THE CONTRACTOR & APPROVED BY THE DEPARTMENT OF TRANSPORTATION PRIOR TO THE START OF CONSTRUCTION. SEE STANDARD 4945 FOR TYPE 26S CONCRETE BARRIER WHERE REQUIRED.
9. IF LIGHT STANDARDS ARE TO BE PLACED ON TOP OF THE MEDIAN BARRIER, THEIR FOOTING SHALL BE INCORPORATED AS AN INTEGRAL PART OF THE BARRIER. SEE THE APPROPRIATE CONSTRUCTION DETAIL SHEETS FOR ADDITIONAL INFORMATION. THE COST OF THE FOOTING AND OTHER NECESSARY MATERIALS TO BUILD THE FOOTING UP TO THE TOP OF THE BARRIER SHALL BE INCLUDED IN THE OVERALL BID FOR THE MEDIAN BARRIER.
10. SEE SEPARATE PLANS FOR LIGHT STANDARDS OR OVERHEAD SIGNS (IF APPLICABLE).
11. CENTERLINE STATIONS SHALL BE CAST INTO THE SLOPING FACE ON BOTH SIDES OF THE BARRIER 8" ABOVE THE PAVEMENT SURFACE IN ACCORDANCE WITH GA. STD. 903I-H. EACH SIDE OF THE CONCRETE BARRIER AT CENTER OF LIGHT STANDARD SHALL BE MARK WITH THE LETTER "L" AS SHOWN I2" FROM THE BARRIER TOP. THE COST OF THE CENTERLINE STATION LETTERING WILL BE INCLUDED IN THE OVERALL BID PRICE FOR THE MEDIAN BARRIER.
12. CONCRETE GLARE SCREEN SHALL BE PLACED ON BARRIER AS SPECIFIED ON THE PLANS. COST OF GLARE SHALL BE PAID FOR AS SECTION 649 CONCRETE GLARE SCREEN, 18 INCH, LF.

BARRIER TYPE	DIMENSION X	BASIS OF PAYMENT
S-1	0'-0"	CONCRETE BARRIER, TP S-1 - LF
S-2	0'-0" TO 1'-0"	CONCRETE BARRIER, TP S-2 - LF
S-3	1'-0" TO 5'-0"	CONCRETE BARRIER, TP S-3 - LF

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

TYPE S-1, S-2 AND S-3
CONCRETE MEDIAN BARRIER
AND CONCRETE GLARE SCREEN

NO SCALE

MAY 2020

DES. DDF

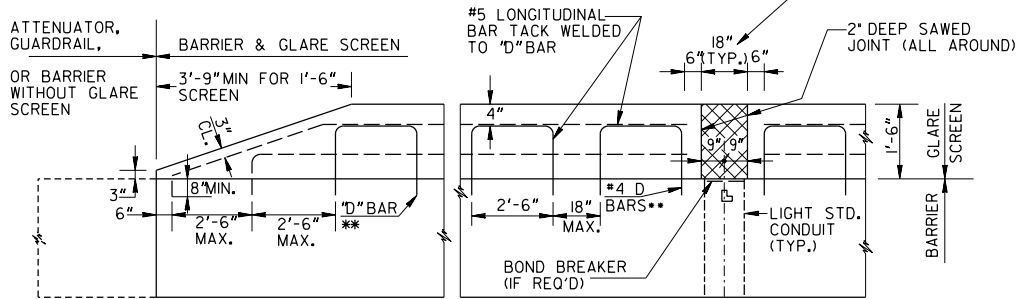
(SUBMITTED) Richard Christopher Rudd
STATE DESIGN POLICY ENGINEER

(APPROVED) Margaret B. Pucko
CHIEF ENGINEER

NUMBER

4941A

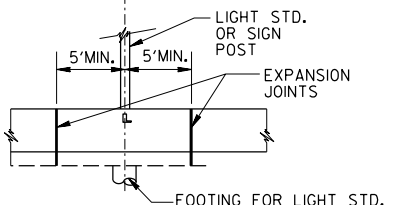
** ALTERNATE:
INSTEAD OF "D" BARS, #4 STRAIGHT DOWEL BARS SPACED AT 24" O.C.
MAY BE USED. LENGTH OF DOWELS SHALL BE 4" GREATER THAN
HEIGHT OF GLARE SCREEN.



GLARE SCREEN TAPER

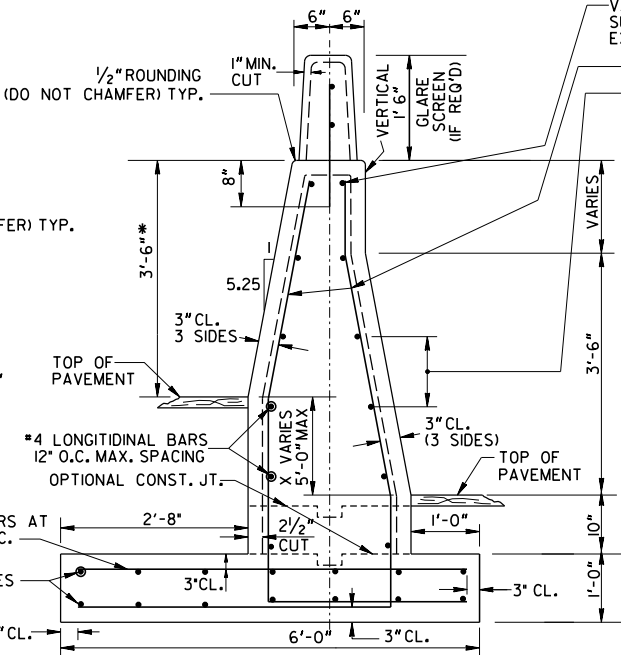
"D" BAR SPACING

NOTE:
TAPER SHOWN ABOVE IS FOR USE ONLY WHERE SCREEN IS TERMINATED. DO NOT USE TAPER WHERE SCREEN IS
INTERCEPTED BY PIER OR OTHER OBSTACLE. SEE SEPARATE PLANS FOR GLARE SCREEN AT PIERS OR WHERE BARRIER
TOP WIDENS.



JOINT SPACING RIGID FOOTING LOCATIONS

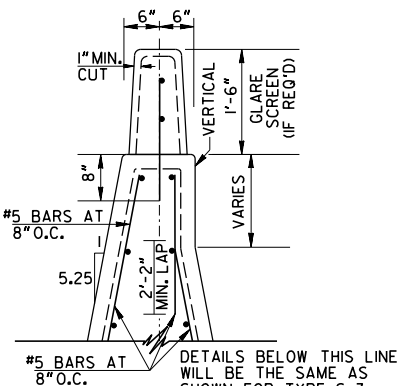
NOTE:
ADJUST EXPANSION JOINT
SPACING SUCH THAT NEAREST JOINT
IS 5 FT. FROM ϕ OF POST.
(SEE GEN. NOTE NO.4.A.4.)



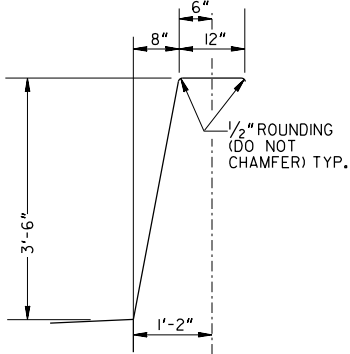
TYPE S-3

(SUPERELEVATED SECTION OR INDEPENDENT GRADES, X= 1'-0" + TO 5'-0" MAX.)

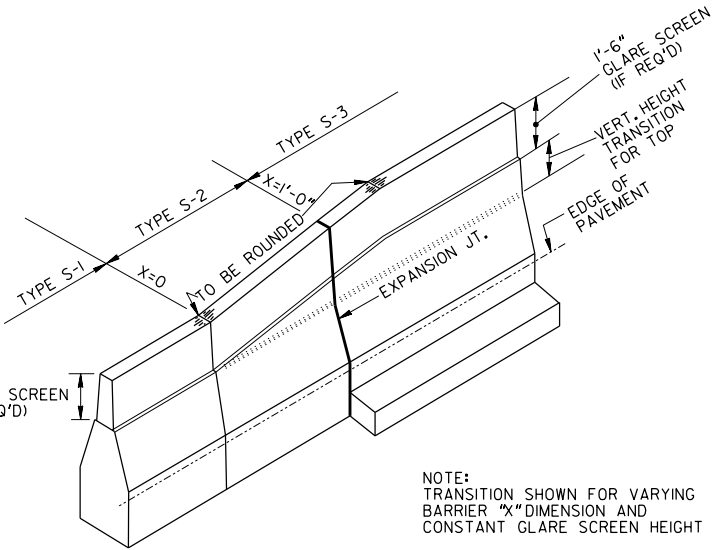
MAX. FACTORED BEARING PRESSURE	TYPE
0.9 KSF	S-1
1.0 KSF	S-2
2.1 KSF	S-3



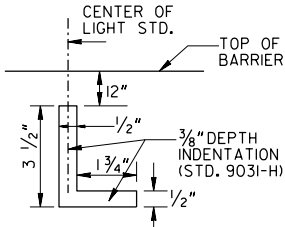
DETAIL "A"



* BARRIER FACE DIMENSIONS



TRANSITION SECTION



LIGHT STANDARD MARKING