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DEPARTMENT OF TRANSPORT STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED BRIDGE REPLACEMENT ON CR661/BLACKHALL RD AT RUM CR

FEDERAL AID PROJECT

HENRY COUNTY

FEDERAL ROUTE * N/A STATE ROUTE * N/A PJ.NO. 0011691

LAKE SPIVEY END CONSTRUCTION PROPOSED 195' x 41.25' CR661/BLACKHALL RD. REINF. CONCRETE BRIDGE STA. 123+00.00 SIPE 0/6. 50 (10) CRGG1/BLACKHALL REQ'D R/W REO'D R Na REQ'D RXV REQ'D R/W OT 02-04 05 06 03 03 END PROJECT CR661/BLACKHAL LL'9 LLS N=1280558.1143 E=2262876.1021 STA. 123+50.00 -----PROJECT MIDPOINT CR661/BLACKHALL RD. N=1279743.6749 HENRY COUNTY E=2262744.5212 COUNTY No.151 LENGTH OF PROJECT Project No. 0011691 STA. 115+25.00 MILES 0.276 SCALE IN FEET NET LENGTH OF ROADWAY 0.037 NET LENGTH OF BRIDGES 0.313 NET LENGTH OF PROJECT 0.000 NET LENGTH OF EXCEPTIONS 0.313 GROSS LENGTH OF PROJECT

	LOCATION & DESIGN APPROVAL DATE: MARCH 31,2017
ΕΚ	NOTE : ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA ", "STATE HIGHWAY DEPARTMENT ", GEORGIA STATE HIGHWAY DEPARTMENT "," HIGHWAY DEPARTMENT ", OR "DEPARTMENT "WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.
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	PLANS PREPARED BY
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PREPARED	BY: CHRISTOPHER A. EDMONDSON
	DESIGNER'S NAME
SUBMITTED	BY: <u>Rinhelly festet</u>
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	GENERAL NOTES:
	1. <u>GEORGIA</u> Utilities Protection Center, Inc
	Know what's DelOW. Call before you dig.
	2. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT I FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY RELOCATION BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FE UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. REQUIRED DRIVEWAY EX THE PLANS SHALL BE ACQUIRED. DRIVES SHALL BE CONSTRUCTED USING:
	ASPHALT - RECYCLED ASPH CONC 12.5mm SUPERPAVE (165 LF/SY) GRADED AGGREGATE BASE, 6" CONCRETE - RESIDENTIAL - DRIVEWAY CONCRETE 6" THICK
	3. METHOD OF UTILITY LOCATION: OWNER MARK-UPS
	4. CONTRACTOR SHALL NOTIFY THE HENRY COUNTY BOARD OF COMMISSIONERS, HENRY COUNTY SH COUNTY BOARD OF EDUCATION, HENRY COUNTY FIRE DEPARTMENT, AND HENRY COUNTY EMS, I 30-CALENDAR DAYS PRIOR TO CLOSURE OF BLACKHALL ROAD. A COPY OF WRITTEN NOTIFICAT THE AREA ENGINEER.
	5. INCLUDE THE COST OF DETOUR SIGN AND BARRICADE REMOVAL IN THE LUMP SUM PRICE FOR
	<u>CLEARING & EARTHWORK</u>
	I. NO CLEARING OR STAGING OF CONSTRUCTION EQUIPMENT OR ANY CONSTRUCTION ACTIVITIES ENVIRONMENTALLY SENSITIVE AREAS (ESA'S)
	2. THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING BRIDGE / CONSTRUCTION DEBRIS W LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE AS SHOWN I DISPOSE OF EXISTING BRIDGE / CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DE
	3. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PR ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSID WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INER ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS TA INFORMATION.
	4 THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE EASEMENT, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASI ETC.) OCCUR UNDER THE DRIP LINE OF DESIRED TREES THAT WILL REMAIN IN THE RIGHT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OR LIMITS OF DISTURBANCE THAT WILL CONSTRUCTION OF ROADWAY ELEMENTS.
	EROSION CONTROL
	I. THIS PROJECT WILL REQUIRE A NOTICE OF INTENT (NOI)
	2. FOR DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) OR DISTURBED AREA STAB PERMANENT VEGETATION), DO NOT USE ANY SPECIES OR CULTIVARS OF SPECIES THAT ARE O NON-NATIVE INVASIVE PLANTS (6755-9, TABLE 5.1), OR THE EXOTIC PEST PLANT COUNCIL LIST IN CATEGORY I, 2, OR 3. CATEGORY 4 PLANTS SHOULD BE AVOIDED IF POSSIBLE.
	3. FOR PERMANENT GRASSING/EROSION CONTROL WITHIN ENVIRONMENTAL RESOURCE AREAS LOCAT. & BUFFER (STA 112+30 TO 118+14 LT/RT) USE RIPARIAN SEED MIX FROM GDOT SPECIFICAT GRASSING. (PER GDOT SPEC 700, NO LIME OR FERTILIZER SHOULD BE APPLIED IN STREAM WHEAT STRAW SHALL BE USED AS MULCH.) FOR ALL OTHER PERMANENT GRASSING/EROSION CO SEEDING TABLE 3 AND/OR HERBACEOUS PLANT SEEDING TABLE 4 FROM GDOT SPECIFICATION WHERE POSSIBLE.
	STANDARD SIGNS
	I. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH TH DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRE EDITION, AND THE GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPE PROVISIONS.
	2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITI WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHA BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFF OF TRAFFIC OPERATIONS.
10/23/2015 GPLN	

FOR ASPHALT, CONCRETE NS ARE SHOWN FROM THE ACTUAL FIELD LOCATION OF ET WIDE AT THE THROAT LESS NOTED OTHERWISE IN MAKING ANY REVISIONS TO EASEMENTS NOT SHOWN ON

HERIFF'S OFFICE, HENRY IN WRITING, A MINIMUM OF TION SHALL BE PROVIDED TO

TRAFFIC CONTROL.

SHALL BE PERMITTED IN

WITHIN THE PROJECT'S IN GA. SPECIFICATION201 TO EPARTMENT.

RIOR TO CONSTRUCTION DE THE PROJECT RIGHT OF RT WASTE LANDFILL OR IN AN THERE TO FOR ADDITIONAL

USE OF STAGING. INS, TRAILER PLACEMENT, OF WAY. THIS DOES NOT BE CLEARED FOR

BILIZATION (WITH ON THE GDOT LIST OF L'S NON-NATIVE INVASIVE

TED AT PERENNIAL STREAM 7 TION SECTION 700 -BUFFER AREAS. AND ONLY ONTROL, USE NATIVE GRASS SECTION 700 - GRASSING

ENT ECIAL

IONS ANGED FICE

STANDARD SIGNS

- 3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY, 40. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS
- SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.
- 4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
- 4c. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).
- 5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x 1/3 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3*8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
- 6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/3 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
- 7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY- TYPICAL FRAMING DETAILS.
- 8. TYPE 9 (HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS I OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
- 9. TYPE II (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (RI-1, RI-2, RI-3P, R5-1, R5-1A, R5-1B).

		Pro	pH <u>6.1</u> Resistivity <u>10001</u> oject Number:N/A		County:HENRY		P.I. N.	umber:0011691 Pipe Culvert Ma	nterial Alterna	ites			
				[-	PIPE	TYPE				
				CONCRETE		STEEL		ALUMINUM			THERMOPLASTIC		
	TYPE	. OF	INSTALLATION	REINFORCED CONCRETE AASHTO M-170	CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M-36	CORRUGATED STEEL PLAIN ZINC COATED AASHTO M-36	POLYMER COATED STEEL AASHTO M-245	CORRUGATED ALUMINUM AASHTO M-196	CORRUGATED HDPE AASHTO M-252	CORRUGATED SMOOTH LINED HDPE TYPE "S" AASHTO M-294	CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M-330	PVC CORRUGATED SMOOTH INTERIOR AASHTO F-949	PVC Profile Wall Drain Pipe AASHTO M-304
	RAVEL RING	SIUE BED)	INTERSTATE	Х									
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N	OTE:				•	•		•					

I. Allowable materials are indicated by an "X".

2. Structural, installation, fill heightand backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications.

3. The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected. 4. Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill,

or within five feet of an MSE wall face shall be Class V Concrete Pipe.

Rev. 1-12-16



10. TYPE II (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (SI-I, S2-I, S3-I, S4-3, AND THE TOP PORTION OF THE S5-I) SIGNS, BICYCLE CROSSING (WII-I) SIGNS, AND PEDESTRIAN CROSSING (WII-2 AND WIIA-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE II (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.

P.I. No.

0011691

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- II. TYPE II (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
- 12. A 1*2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
- 13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3*8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
- 14. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
- 15. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-I (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.
- 16. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

DRAINAGE

I. INCLUDE THE COST OF TEMPORARY DRAINAGE IN THE LUMP SUM PRICE FOR TRAFFIC CONTROL.

REVISION DATES	GENERAL NOTES					
		CR661/BLACKHALL	RD.	AT RUM	CREEK	
	CHECKED:	CAE	DATE:	9/26/17	DRAWING No.	
	BACKCHECKED:		DATE:			
	CORRECTED:	JSJ	DATE:	9/26/17	$ ()/ = ()()()^{-1}$	
	VERIFIED:	IC	DATE:	9/26/17		

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					Environmental Resources Impact	Tabla	
			The	se resource:	s and the restrictions listed are governed by	v state and federal law.	
	Resource Name		Location		Permitted Construction Activity	Special Provision?	Comments
	(from Section A of the ECT)	Beginning STA	Ending STA	Side	(from Section A of the ECT)	(from Section B of the ECT)	(from Section C of the ECT, comments only)
	OPEN WATER (OW) 1	107+00	123+50	LT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	OPEN WATER (OW) 1 BUFFER	107+00	123+50	LT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	WETLAND 2	106+60	108+50	RT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	WETLAND 5	108+45	110+40	RT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	INTERMITTENT STREAM 3	106+85	108+05	LT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	INTERMITTENT STREAM 3 BUFFER	106+85	108+35	LT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	PERENNIAL STREAM 4	108+40	110+10	RT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	PERENNIAL STREAM 4 BUFFER	108+20	110+35	RT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	WETLAND 6	112+74	113+58	LT	NO IMPACT	NA	The contractor will ensure that no construction-related activities or access occur beyond the Orange Barrier Fencing protecting this resource.
	PERENNIAL STREAM 7	118+14	112+55	LT/RT	BRIDGE CONSTRUCTION	NA	The contractor will ensure that no construction-related activities or access occur beyond the Orange Barrier Fencing protecting this resource.
	PERENNIAL STREAM 7 BUFFER	112+30	118+14	LT/RT	BRIDGE CONSTRUCTION WITHIN EXEMPT AREA	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	INTERMITTENT STREAM 8	115+06	113+75	LT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	INTERMITTENT STREAM 8 BUFFER	113+56	115+35	LT	NO IMPACT	NA	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
	404 Permits and Variances (from Section D	of the ECT)			Expiration dates (if applicable) Cor	Intact GDOT OES 6 months prior to	Lexpiration, if work will extend beyond this date.
	NOI for NPDES						
	404 Nationwide Permit 3A						
	Buffer Variance				OTHER COMMENTS OR REQUIREME	ENTS	
	OPEN WATER 1 IS LAKE SPIVEY AND IT EXTENDS B	EYOND PROJECT LIMI	TS				
		lf th	nere are no resources, i	ndicate "Noi ECT = Env	ne" in the first row. Include this table in the ironmental Commitments Table, AKA	General Notes section of the plans A "Green Sheet".	as always.
							Drawing Copyright © 2018
10/23/2015 GPI N							270 Peachtree St. NW, Suite 1500 Atlanta, GA 30303-1283 678.954.5000 • www.chacompanies.com

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RE	ISION DAT	ES	GENERAL NOTES					
				CR661/BLACKHALI	L RD.	AT RUM	CREEK	
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24'-0' Min. 12'-0' 4'-0' 4'-0' 11'-0' 11'-0' 11'-0' Sboulder Rayed Travel Lase All All All All All All All All All All	P. 1. No. OUII691
ALTERNATE TYPICAL SECTION - ROCK EXCAVATION N.T.S. <u>APPLIES TO:</u> STA. 109+00.00+/- TO STA. 111+25.00+/-	
L2'-0' Edge of Travelway 6%	Type I Header Curb Depth of header curb shall extend to the bottom of the paved section
<u>HEADER CURB DETAIL</u> N.T.S. <u>APPLIES TO:</u> STA. III+79.96 TO STA. II2+4	40. 00
Drawing Copyright © 2018 REV / S / ION DATES OB//0/2018 08//0/2018 270 Peachtree St. NW, Suite 1500 Atlanta, GA 30303-1283 678.954.5000 • www.chacompanies.com C	TYPICAL SECTIONSCR661/BLACKHALL RD. AT RUM CREEKHECKED:CAEDATE:9/26/17DRAWING NO.DARECTED:JSJDATE:9/26/1705-0002TERIFIED:ICDATE:9/26/1705-0002

STATIONSIGN CODEBLACKHALL ROAD107+70 RT107+70 RTW8-13119+65 LTW8-13111+54 RTR2-1115+95 LTR2-1BEGIN BMP*END BMP*SPCL. SIGN #1SPCL. SIGN #1SPCL. SIGN #2TOTAL* BMP SIGNS TO BE PAID FOR AS PA	TP1 MATL SIZE 24" X 30" 24" X 30" 24" X 30"	. REFL. SHEET	ING TP 9 SQUARE FEET	TP1 MATL. SIZE 36" X 36" 36" X 36"	REFL. SHE QUANTIT
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UNIT	TOTAL
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		DRAIN	IAGE ITEMS	5	1	
STRUCTURE NUMBER NOITAJON		STORM DRAIN PIPE 18" H1-10	18" FLARED END SECTION STORM DRAIN GDOT STD 1120	CATCH BASIN GP 1 GDOT STD 1034F	STORM SEWER MANHOLE TP 1 GDOT STD 1011A	STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1
		LIN FT	EACH	EACH	EACH	LIN FT
BLACKHAI	L RD					
A-1	112+31.57 RT	57		1		
A-2	112+31.57 LT	43			1	4
A-3	112+75.90 LT		1			
TOTAL		100	1	1	1	4

	I	BRIDGE NO	D. 1 SUMMARY OF QUANTITIES
PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
207-0203	12	CY	FOUND BKFILL MATL, TP II
211-0300	79	CY	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	780	SY	GROOVED CONCRETE
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D BR NO - 1 (273)
500-2100	378	LF	CONCRETE BARRIER
500-5000	LUMP	LS	ULTRA HIGH PERFORMANCE CONCRETE BR NO - 1 (11)
501-2001	3200	LB	STR STEEL
504-0600	40	CY	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
507-9030	958	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO - 1
511-1000	4714	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (67982)
520-0589	30	EA	H-PILE POINTS, HP 14 X 89
520-1151	1040	LF	PILING IN PLACE, STEEL H, HP 14 X 89
520-4151	1	EA	LOAD TEST, STEEL H, HP 14 X 89 (IF REQD)
523-1100	2	EA	DYNAMIC PILE TEST
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 113+76.50
603-2024	703	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	703	SY	PLASTIC FILTER FABRIC
999-0025	LUMP	LS	COMPOSITE DECK-BEAM UNITS, BR NO - 1
			ALTERNATE 1
PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
504-0600	99	CY	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
511-1000	25694	LB	BAR REINF STEEL

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3650	68	CY	CLASS AA - 1 CONCRETE
504-0600	31	CY	TWENTY-FOUR HOUR ACCELERATED STRE
511-1000	26218	LB	BAR REINF STEEL

2015	GPLN	1	

SUMMARY OF QUANTITIES

TEMPORARY EROSION CONTROL		
ITEM	UNIT	TOTAL
TEMPORARY GRASSING	AC	3
MULCH	TN	80
CONSTRUCTION EXIT	EA	2
TEMPORARY SILT FENCE, TYPE C	LF	7850
CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAINS	LF	115
CONSTRUCT & REMOVE FABRIC CHECK DAMS - TYPE C SILT FENCE	LF	4176
CONSTRUCT & REMOVE ROCK FILTER DAMS	EA	4
CONSTRUCT & REMOVE INLET SEDIMENT TRAP	EA	2
MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	3925
MAINTENANCE OF CHECK DAMS - ALL TYPES	LF	2088
MAINTENANCE OF CONSTRUCTION EXIT	EA	2
MAINTENANCE OF INLET SEDIMENT TRAP	EA	2
MAINTENANCE OF ROCK FILTER DAM	EA	4
WATER QUALITY MONITORING AND SAMPLING	EA	2
	MO	12

PERMANENT EROSION CO	NTROL	
ITEM	UNIT	TOTAL
EROSION CTRL MATS, SLOPES	SY	5170
PERMANENT GRASSING	AC	5
AGRICULTURAL LIME	TN	13
FERTILIZER MIXED GRADE	TN	5
FERTILIZER NITROGEN CONTENT	LB	206
TURF REINFORCING MATTING, TP 1	SY	1776
STN DUMPED RIP RAP, TP 3,18 IN	SY	62
PLASTIC FILTER FABRIC	SY	62

BARRIER FENCE (ORANGE), 4 FT						
LOCATION	LF					
STA. 108+43 TO 108+76 RT	65					
STA. 109+52 TO 110+23 RT	107					
STA. 112+93 TO 113+41 LT	53					
STA. 112+42 TO 113+06 RT	84					
STA. 114+24 TO 115+03 LT	87					
STA. 116+29 TO 117+72 LT	173					
TOTAL	569					

ENGTH CONC



P.I. No.
0011691

CONC HEADER CURB 4", TP 1, STD 9032-B					
LOCATION	SIDE	LF			
111+80 TO 112+41	RT	52			
TOTAL		52			

	(TEMPORARY) SIDE DRA	AIN PIPE 18"	
	TOTAL	190	LF
* For inf	ormation purposes only, cost inc	luded under traffic	control.
	TEMPORARY BARRIER	R METHOD 1	
TOTAL		750 LF	
	TEMPORARY PORTABLE IMP	PACT ATTENUATOR	

TOTAL

4 EA

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07-06-18	500-3650	07-06-18	1
07-06-18	504-0600	07-06-18	1
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QUANTITIES REQUIRED BY AMENDME.

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LASS AA CONCRETE (ALTERNAT	E 2)	
LASS AA-I CONCRETE (ALTERN	ATE 2)	
WENTY - FOUR HOUR ACCELERA	TED STRENGTH CONC (ALTERNATE I)	
WENTY - FOUR HOUR ACCELERA	TED STRENGTH CONC (ALTERNATE 2)	
AR REINE STEEL (ALTERNATE	2)	
AN NETHI STEEL VALIENNAIL		
ADLY COMPLETION INCENTIVE		
ARLI COMFLETION INCENTIVE		
UARDRAIL ANCHURAGE, IP 12		
UARDRAIL IERMINAL, IP 12A,	<u> 31 IN, TANGENI, ENERGY - ABSURBING</u>	
YNAMIC PILE TEST		
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DESCRIPTION	UNIT	ORIGINAL QUANTITY	PREVIOUS QUANTITY	REQUIRED ON CONSTRUCTION
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	G	*G*	G	GAS (QL-D)
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UTILITY LEGEND

<u>EXISTING</u>	PROPOSED	<u>TEMPORARY</u>		EXISTING	<u>PROPOSED</u>	<u>TEMPORARY</u>	
E	E	E	ELECTRIC MANHOLE	W			WELL
Н	н	H	HAND HOLE	W	W	W	WATER VAULT
Ε	E	E	TRANSFORMER	W	W		WATER VALVE MARKER
E	e	B	ELECTRIC METER	F	r (A)	r A	STAND PIPE
\ominus		$\overline{}$	UTILITY POLE/GUY POLE		Ŏ	Ô	CLEANOUT
Ý	•		LIGHT POLE	(ss)	55	ß	SANITARY SEWER MANILOLE
\prec	_		GUY ANCHOR	(ARV)	ARV	(ARV)	
Ε	E	G	ELECTRIC BOX		GT		
M			MARKER				GREASE TRAF
T	A			⟨s⟩ ⊘	6		SANITARY SEWER FORCE MAIN VALVE
					I	I	VENT
T	Ť	T	TELECOMMUNICATIONS PEDESTAL	$\langle \mathbf{G} \rangle$	G	(G)	GAS VALVE
X	×	×	SPLICE BOX	G	G	G	GAS METER
SLC	SLC	SLC	(aka "SLICK")	G	G	G	GAS MANHOLE
			CABINET	GPR	GPR	GPR	GAS PRESSURE REGULATOR
)	Ð	٥	PHONE BOOTH	G	G	G	GAS VAULT
ď			CABLE TV PEDESTAL	GTS	GTS	GTS	GAS TEST STATION
TV	TV		CABLE TV MANHOLE	$\langle P \rangle$	₽		PETROLEUM VALVE
$\langle w \rangle$	W		WATER VALVE		MISC.		
W	W		WATER METER		———LUS——— тн		LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
W	W	W	WATER MANHOLE				TEST HOLE (QL-A ONLY)
Ø	Ŭ	ð	FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)		EOI S		END OF INFORMATION
BFP	BFP	BFP	BACKFLOW PREVENTER		, ,		
PIV	PIV	PIV	PRESSURE INDICATOR VALVE		(123)		POLE ID
ARV	ARV	ARV	AIR RELEASE VALVE				SANITARY SEWER MANHOLE (SSMH) ID

UUALIIY LEVELS AND DEFINITIONS

QL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED. QL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

OL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

<u>TELEPHONE PAIR SIZE TABLE</u>

ELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 /N

Know what's **below. Call before you dig**.

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CHA
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	SC	ALE IN FEET	
0	20	40	

	REVISION DATES	_	UTILITY PLAN	IS
-		 CR66 I	/BLACKHALL RD. AT RU	M CREEK
_ 「		CHECKED:	DATE:	DRAWING No.
		BACKCHECKED:	DATE :	
80		CORRECTED:	DATE :	$\exists 2 / - () () () ()$
		VERIFIED:	DATE:	עעע דעך

UTILITY OWNER	<u>SERVICE</u>
ATLANTA GAS LIGHT	GAS
AT&T	TELEPHONE
CLAYTON COUNTY WATER AUTHORITY	WATER
HENRY COUNTY WATER AUTHORITY	WATER
GEORGIA POWER	ELECTRICITY

P.I. No. 0011691

-- GPS-I,---























L

	BRIDC	GE CONSIS	TS OF	
I - 60'-0" BULB T	EE, 54 IN, PSC	DECK-BEAM S	PAN	- SPECIAL DESIG
I - 93'-0" BULB T	EE, 54 IN, PSC	DECK-BEAM S	PAN	- SPECIAL DESIG
I - 42'-0" BULB T	EE, 54 IN, PSC	DECK-BEAM S	PAN	- SPECIAL DESIG
2 - STEEL H PILE	END BENTS			- SPECIAL DESIG
2 - CONCRETE INTE	RMEDIATE BENTS			- SPECIAL DESIG
4 - END POST AND (L = 4'-0"; W	GUARDRAIL ATTA(/ = '- "; H = ;	CHMENT DETAI 2'-8")	L GA. ST[). 3054 (9-30-02
BAR BENDING D	ETAILS		GA.	STD. 3901 (8-69
TYPICAL FILL	DETAIL AT END	OF BRIDGE	GA.	STD. 9037 (9-99
	DF	AINAGE D4	ATA	
DRAINAGE AREA	<i>\</i>		1	I.5 SQUARE MILES
FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	3,050 CFS	4.40 FPS	693.I SQ FT	0.06 FT
IOO YEAR	3,530 CFS	4.48 FPS	787.6 SQ FT	0.06 FT
500 YEAR	4,830 CFS	4.91 FPS	983.5 SQ FT	0.01 FT
	TR	AFFIC DA	АΤА	
TRAFFIC			AD AD DH	T = 6,550 (2019) T = 8,300 (2039) V = 830 (2039)
DESIGN SPEED				45 MPH
TRUCKS				4 %
24 HR TRUCKS				5 %
DIRECTIONAL				60 %
	U	TILITIES		
	NO UTI	LITIES ON B	RIDGE	
	<u>GEN</u>	<u>eral not</u>	ES	
SPECIFICATIONS -	- GEORGIA STA			
JULT LEMENTAL S	SPECIFICATIONS	NDARD SPECI AS MODIFIED	FICATIONS, 2013 By contract docu	EDITION AND 2 MENTS.
REINFORCING STEEL GEORGIA DOT S CLEARANCE ON A	SPECIFICATIONS PLACE AND T SPECIFICATIONS. ALL REINFORCEME	NDARD SPECI AS MODIFIED IE ALL REINF DO NOT WE NT UNLESS OT	FICATIONS, 2013 BY CONTRACT DOCU FORCING STEEL IN ELD REINFORCING THERWISE NOTED.	EDITION AND 2 MENTS. ACCORDANCE WITH STEEL. MAINTAIN
REINFORCING STEEL GEORGIA DOT S CLEARANCE ON A CHAMFER - CHAMFER	SPECIFICATIONS PLACE AND T SPECIFICATIONS. ALL REINFORCEME ALL EXPOSED CO	NDARD SPECI AS MODIFIED IE ALL REINF DO NOT WE NT UNLESS OT NCRETE EDGES	FICATIONS, 2013 BY CONTRACT DOCU FORCING STEEL IN ELD REINFORCING THERWISE NOTED. 5 3/4" UNLESS OTH	EDITION AND 2 MENTS. ACCORDANCE WITH STEEL. MAINTAIN ERWISE NOTED.
REINFORCING STEEL GEORGIA DOT S CLEARANCE ON A CHAMFER - CHAMFER TRAFFIC CONTROLS WITH SPECIAL PLANS FOR DET	SPECIFICATIONS - PLACE AND T SPECIFICATIONS. ALL REINFORCEME ALL EXPOSED CO - ROAD TO BE PROVISIONS I FOUR, TRAFFIC C	NDARD SPECI AS MODIFIED IE ALL REINF DO NOT WE NT UNLESS OT NCRETE EDGES CLOSED DURIN N SECTION I ONTROLS AND	FICATIONS, 2013 BY CONTRACT DOCU FORCING STEEL IN ELD REINFORCING THERWISE NOTED. 5 3/4" UNLESS OTH NG BRIDGE CONSTRU 50.11 AND SECTIO TRAFFIC CONTROL	EDITION AND 2 MENTS. ACCORDANCE WITH STEEL. MAINTAIN ERWISE NOTED. CTION IN ACCORDA N 108. SEE ROAD PAYMENT.
REINFORCING STEEL GEORGIA DOT S CLEARANCE ON / CHAMFER - CHAMFER TRAFFIC CONTROLS WITH SPECIAL PLANS FOR DET EXISTING BRIDGE PL DOT WEBSITE AT	SPECIFICATIONS - PLACE AND T SPECIFICATIONS. ALL REINFORCEME ALL EXPOSED CO - ROAD TO BE PROVISIONS I FOUR, TRAFFIC C ANS - ORIGIN F:	NDARD SPECI AS MODIFIED IE ALL REINF DO NOT WE NT UNLESS OT NCRETE EDGES CLOSED DURIN N SECTION I ONTROLS AND AL BRIDGE PL	FICATIONS, 2013 BY CONTRACT DOCU FORCING STEEL IN ELD REINFORCING THERWISE NOTED. 5 3/4" UNLESS OTH NG BRIDGE CONSTRU 50.11 AND SECTIO TRAFFIC CONTROL	EDITION AND 2 MENTS. ACCORDANCE WITH STEEL. MAINTAIN ERWISE NOTED. CTION IN ACCORDA N 108. SEE ROAD PAYMENT. INED ON THE GEOF
REINFORCING STEEL GEORGIA DOT S CLEARANCE ON / CHAMFER - CHAMFER TRAFFIC CONTROLS WITH SPECIAL PLANS FOR DET EXISTING BRIDGE PL DOT WEBSITE AT	SPECIFICATIONS - PLACE AND T SPECIFICATIONS. ALL REINFORCEME ALL EXPOSED CO - ROAD TO BE PROVISIONS I TOUR, TRAFFIC C ANS - ORIGIN I:	NDARD SPECI AS MODIFIED IE ALL REINF DO NOT WE NT UNLESS OT NCRETE EDGES CLOSED DURIN N SECTION I ONTROLS AND AL BRIDGE PL BS/PROJECTS/	FICATIONS, 2013 BY CONTRACT DOCU FORCING STEEL IN ELD REINFORCING THERWISE NOTED. 5 3/4" UNLESS OTH NG BRIDGE CONSTRU 50.11 AND SECTIO TRAFFIC CONTROL ANS MAY BE OBTA	EDITION AND 2 MENTS. ACCORDANCE WITH STEEL. MAINTAIN ERWISE NOTED. CTION IN ACCORDA N 108. SEE ROAD PAYMENT. INED ON THE GEOR
REINFORCING STEEL GEORGIA DOT S CLEARANCE ON / CHAMFER - CHAMFER TRAFFIC CONTROLS WITH SPECIAL PLANS FOR DET EXISTING BRIDGE PL DOT WEBSITE AT HTTP://W THE ORIGINAL NO. H003967).	SPECIFICATIONS - PLACE AND T SPECIFICATIONS. ALL REINFORCEME ALL EXPOSED CO - ROAD TO BE PROVISIONS I TOUR, TRAFFIC C ANS - ORIGIN I: AWW.DOT.GA.GOV/ BRIDGE WAS BU	NDARD SPECI AS MODIFIED IE ALL REINF DO NOT WE NT UNLESS OT NCRETE EDGES CLOSED DURIN N SECTION I ONTROLS AND AL BRIDGE PL BS/PROJECTS/ ILT UNDER PR	FICATIONS, 2013 BY CONTRACT DOCU FORCING STEEL IN ELD REINFORCING THERWISE NOTED. 5 3/4" UNLESS OTH NG BRIDGE CONSTRU 50.11 AND SECTIO TRAFFIC CONTROL ANS MAY BE OBTA	EDITION AND 2 MENTS. ACCORDANCE WITH STEEL. MAINTAIN ERWISE NOTED. CTION IN ACCORDA N 108. SEE ROAD PAYMENT. INED ON THE GEOF

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WAITING PERIOD - NONE REQUIRED.

FOUNDATION BACKFILL MATERIAL - PLACE I'-O" OF TYPE I FOUNDATION BACKFILL MATERIAL UNDER EACH FOOTING AT BENTS 2 AND 3. THE QUANTITY IS BASED ON THE PLAN FOOTING DIMENSIONS PLUS 2'-O". THE USE OF BACKFILL MATERIAL MAY BE ELIMINATED BY THE ENGINEER IF THE FOOTING IS DRY.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

- DRIVING RESISTANCE DETERMINE DRIVING RESISTANCE FOR PILES USING DYNAMIC PILE TESTING IN ACCORDANCE WITH SPECIAL PROVISION 520. DYNAMIC PILE TESTING SHALL BE REQUIRED FOR ONE PILE AT EACH OF BENTS 2 AND 4.
- DYNAMIC PILE TESTING PERFORM PILE TESTING USING THE PILE DRIVING ANALYZER (PDA) IN ACCORDANCE WITH SPECIAL PROVISION SECTION 523. NOTIFY THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AND TESTING AT 404-608-4720 TWO WEEKS PRIOR TO DRIVING PILES.
- WAVE EQUATION PERFORM WAVE EQUATION ANALYSIS (WEAP) IN ACCORDANCE WITH SPECIAL PROVISION 520. PROVIDE RESULTS OF THE WEAP TO THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AND TESTING FOR REVIEW AND APPROVAL TWO WEEKS PRIOR TO DRIVING PILES.
- STEEL H-PILES USE STEEL FOR H-PILES THAT MEETS THE REQUIREMENTS OF ASTM A 709 GR 50.
- PILE POINTS REINFORCE ALL PILE TIPS AT ALL BENTS IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATIONS.
- SMOOTH DOWEL BARS PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.
- POUR STRIP CONCRETE FOR THE POUR STRIP SHALL BE ULTRA HIGH PERFORMANCE CONCRETE (UHPC). SEE SPECIAL PROVISION 500 FOR ADDITIONAL REQUIREMENTS, MEASUREMENT, AND PAYMENT.
- GROOVED CONCRETE GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.
- RIDING QUALITY THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.
- 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.
- BRIDGE REMOVAL REMOVE EXISTING BRIDGE AS PER SUB-SECTION 540.3.05 OF THE GEORGIA DOT SPECIFICATIONS.
- SALVAGE MATERIAL NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.
- 24 HOUR CONCRETE SUPERSTRUCTURE CONCRETE INCLUDING ENDWALLS, EDGE BEAMS, SLAB BLOCK-OUTS, AND ENDPOSTS SHALL UTILIZE 24 HOUR CONCRETE. INCLUDE COSTS FOR 24 HOUR CONCRETE IN SUPERSTRUCTURE IN PRICE BID FOR "LUMP-SUPERSTR CONCRETE, CLASS D". TWENTY-FOUR HOUR ACCELERATED STRENGTH CONCRETE SHALL BE ACCORDING TO SECTION 504 OF THE SPECIFICATIONS. IN ADDITION TO THE REQUIREMENTS OF SECTION 504, THE MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 4,000 PSI FOR SUPERSTRUCTURE AND 3,500 PSI FOR SUBSTRUCTURE.
- OPEN TO TRAFFIC DO NOT OPEN BRIDGE TO TRAFFIC UNTIL BARRIER AND BARRIER TRANSITION CONCRETE MEETS THE 28 DAY COMPRESSIVE STRENGTH FOR CLASS "D" CONCRETE AND HAS CURED A MINIMUM OF 5 DAYS.
- 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 WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECCESSARY TO COMPLETE THE WORK.

SPECIFICAT

DESIGN VEH FUTURE PAV CONCRETE:

 $\angle \Delta$

2

REINFORCEM PRETENSION STEEL H-PI

			GPS	P.I. NO. 001 1691
[IONS	JESIGN	<u> data</u> 	AASHTO LRED 7TH F	DITION, 2014
	(DESIG	NED FOR SEISMIC PE	RFORMANCE ZONE 2,	SDI = 0.182)
ICLE LIVE LOAD				HL-93
ING ALLOWANCE			30 LI	BS PER SQ FT
SUPERSTRUCTURE (UMITT BARRIER PSC BEAMS PSC BEAM ALLOWABLE TE SUBSTRUCTURE SUBSTRUCTURE (PRECAST POUR STRIPS BLOCK-OUT (ENDWALLS/E	ED POUR NSION - () EDGE BEA	STRIPS AND BLUCK-	UUTS) - CLASS D, fc CLASS D, fc CLASS AAA, fc = SEE SEE 4 HOUR CONCRETE, fc CLASS AA-I, fc UHPC, SEE SPECI 4 HOUR CONCRETE, fc	= 4,000 PSI = 4,000 PSI BEAM SHEETS BEAM SHEETS = 3,500 PSI = 4,500 PSI AL PROVISION = 4,000 PSI
ENT STEEL:			GRADE 60, fy	= 60,000 PSI
ING STRANDS:			f _s =	270,000 PSI
			BRIDGE NO.I	
			Drawing Copyright © 2018	
<	$\mathbb{P}^{\mathbb{P}}$	67	270 Peachtree St. NW, Suite 1500 Atlanta, GA 30303-1283 78.954.5000 · www.chacompanies.com	
DATE	07-06-18 08-10-18	DEPARTMEN ENGINEERING DIVISIO	GEORGIA TOF TRANSF IN-OFFICE OF BRIDGES A	ORTATION AND STRUCTURES
Π	ONC.	GENERAL	NOTES (SHEET	I OF 2)
SNC	<u>TR</u> 10N 10N	CR 661(BLACKH	IALL ROAD) OVEF	R RUM CREEK
REVISIO	SUBS	HENRY COUNT	Υ	0011691
DRAWING NO.	<u>4-HR</u> EST I	NO SCALE		FEBRUARY 2018
BRIDGE SHEET		DESIGNED VO	CHECKED KJK	REVIEWED DLC/SKG
2 OF 18 💾		DRAWN LLY	DESIGN GROUP ULW	APPROVED WMD

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PAY ITEM			
207-0203	<u>004N1111</u> 12	CY	FOUND BKFILL MATL, TP II
211-0300	79	СҮ	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	780	SY	GROOVED CONCRETE
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D, BR NO - I (273) 🛆
500-2100	378	LF	CONCRETE BARRIER
500-5000	LUMP	LS	ULTRA HIGH PERFORMANCE CONCRETE, BR NO - I (
501-2001	3200	LB	STR STEEL
504-0600	40	СҮ	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
507-9030	958	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO -
511-1000	4714	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - I (67982)
520-0589	30	EA	H-PILE POINTS, HP 14 X 89
520-1151	1040	LF	PILING IN PLACE, STEEL H, HP 14 X 89
520-4151	I	EA	LOAD TEST, STEEL H, HP 14 X 89 (IF REQD)
523-1100	2	EA	DYNAMIC PILE TEST 🖄
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 113+76.5
603-2024	703	SY	STN DUMPED RIP RAP, TP I, 24 IN
603-7000	703	SY	PLASTIC FILTER FABRIC
999-0025	LUMP	LS	COMPOSITE DECK-BEAM UNITS, BR NO - I
			<u>ALTERNATE I</u>
504-0600	99	СҮ	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
511-1000	25694	LB	BAR REINF STEEL
			<u>ALTERNATE 2 (PRECAST)</u>
500-3650	68	СҮ	CLASS AA-I CONCRETE
504-0600	31	СҮ	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
511-1000	26218	LB	BAR REINF STEEL

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DATE <u>J7-06-18</u> <u>38-10-18</u>		BRIDGE NO. I Draving Copyright © 2018 To Peachtree St. NW, Suite 1500 Atlanta, GA 30303-1283 678.954.5000 · www.chacompanies.com	NSPORTATION
M 07-06-18	DEPARTME ENGINEERING DIVI	BRIDGE NO. I BRIDGE NO. I Drawing Copyright © 2018 CCHOS 270 Peachtree St. NW, Suite 1500 Atlanta, GA 30303-1283 678.954.5000 - WWW.chacompanies.com GEORGIA SION-OFFICE OF BRID NOTFS (SHF	NSPORTATION GES AND STRUCTURES
ONS DATE AY ITEM 07-06-18 ATION 08-10-18	DEPARTME ENGINEERING DIVI GENERAL CR 661 (BLACK	BRIDGE NO. I Drawing Copyright © 2018 CCD-GA 270 Peachtree St. NW, Suite 1500 Atlanta, GA 30303-1283 278.954.5000 • www.chacompanies.com GEORGIA SION-OFFICE OF BRID NOTES (SHE (HALL ROAD) (NSPORTATION GES AND STRUCTURES ET 2 OF 2) OVER RUM CREEK
REVISIONS DATE SED PAY ITEM 07-06-18 LOCATION 08-10-18	DEPARTME ENGINEERING DIVI GENERAL CR 66I (BLACI HENRY COUI	BRIDGE NO. I Drawing Copyright © 2018 CCD-GA ZTO Peachtree St. NW, Suite 1500 Atlanta, GA 30303-1283 278.954.5000 • www.chacompanies.com GEORGIA SION-OFFICE OF BRID SION-OFFICE OF BRID NOTES (SHE (HALL ROAD) (NSPORTATION GES AND STRUCTURES ET 2 OF 2) OVER RUM CREEK OOI 16 91

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SOUTH STAGING AREA								
FALSE BENTS	BEAM I	BEAM 2	BEAM 3	BEAM 4	BEAM 5			
© BRNG BT I	X + 0.34'	X + 0.17'	Х	X - 0.17'	X - 0.34'			
© BRNG BT 2BK	X + 0.80'	X + 0.63'	X + 0.46'	X + 0.29'	X + 0.12'			

NORTH STAGING AREA										
FALSE BENTS	BEAM I	BEAM 2	BEAM 3	BEAM 4	BEAM 5					
© BRNG BT 2AH	Y + 0.34'	Y + 0.17'	Y	Y - 0.17'	Y - 0.34'					
©_ BRNG BT 3BK	Y + 1.94'	Y + 1.77'	Y + 1.60'	Y + 1.43'	Y + 1.26'					
© BRNG BT 3AH	Y + 2.19'	Y + 2.02'	Y + I₀85'	Y + I.68′	Y + 1.51'					
©_ BRNG BT 4	Y + 3.22'	Y + 3.05'	Y + 2.88'	Y + 2.71'	Y + 2.54'					

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7/ 7/ 7/ 2	<u>STRUCTURAL STEEL NOTES</u>
RAD.	I. ALL INTERMEDIATE DIAPHRAGM STEEL AND CONNECTOR PLATES SHALL BE ASTM A709 GRADE 50.
<u>(-Y</u>	2. ALL ASTM F3125, GRADE A325, TYPE I BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH SECTION 501 OF THE GEORGIA STANDARD SPECIFICATIONS.
	3. GALVANIZE ALL METAL COMPONENTS, INCLUDING PLATES, ANGLES, BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH ASTM A123 OR A153.
<u>ie detail</u>	4. USE AN ASTM F436 HARDENED WASHER WITH STANDARD AND SLOTTED HOLE UNDER EACH BOLT HEAD AND NUT.
	5. INTERMEDIATE DIAPHRAGM ASSEMBLY SHALL COMPLY WITH SECTION 851 OF THE GEORGIA STANDARD SPECIFICATIONS.
	6. FURNISH SHOP DRAWINGS ON COMPLETE STEEL DIAPHRAGM SYSTEM FOR APPROVAL BY THE ENGINEER.
	7. INCLUDE THE COST OF THE STEEL DIAPHRAGMS, COMPONENTS AND ASSEMBLY IN THE PRICE BID FOR "STR STEEL".
	BRIDGE NO.I

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	BEARING PADS								
						DESIG	N LOADS	(KIPS)	
				NUMBER OF	DESIGN			DEADLOAD	
	W	L	Т	PLATE(S)	DEFLECTION	DEAD LOAD	(NO IMPACT)	LIVE LOAD	
Ι	22″	10″	2¾″	3	7/16 "	85.8	67.8	153.6	
2ВК	22″	10″	2¾"	3	0	67.8	67.8	135.6	
2AH	22″	10″	2¾"	3	0	109.5	80.7	190.2	
ЗВК	22″	10″	2¾"	3	⁹ /16 "	109.5	80.7	190.2	
ЗАН	22″	10"	3 ¹ /4"	2	9/16 "	47.6	58.2	105.8	
4	22″	10″	31/4"	2	13/16 "	65.6	58.2	123.8	

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LOCATION OF	MARK	LENGTH N			<u> </u>	D E		J K N O	LOCATION	NO. LENGTH	NO. Y BARS P A	G B C		H	J K N G	Э				GPG	P.I. NO.
		FT. IN. RE	э, D• _ Е	FT. IN.		FT. IN. FT. IN	• FT. IN. FT. IN.		CDAN 7	LOC. FT. IN.	REQ'D. E	FT. IN. FT. IN.	FT. IN. FT. IN. FT. IN.	FT. IN. F	[.]IN.FT.]IN.	_			۹		0011031
SPAN I I	700	5- 0	2 1	SUPERSIE					SPAN S	300 5- 0	2	SUPERSTRUCTURE				_					
																_					
	400A	59-8	95 I							4000 41-8	95 I										
	40 I A	16-7	12 I							401B 19- 7	12						=				
	401B	19-7	24 I							401C 18- 7	12					Z	00				
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FORM EF3





STATE	PROJECT	NUMBER	SEDET NO.	TOTAL SHUGTS
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UA.				

GATE FOR CHAIN LINK FENCE

- BOTTOM OF FABRIC

GATE POST 3 -1/2"X3 1/2"X5/16" GALV. STEEL ROLLED ANGLE SECTION OR, -2 -1/2" I.D. GALV. STEEL PIPE OR, 5" MIN. DIAMETER WOOD POSI

---- II GA WOVEN WIRE FENCE

GATE FOR WOVEN WIRE FENCE

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA GATE DETAILS FOR CHAIN LINK & WOVEN WIRE FENCE JAN. 1988 NO SCALE

REV. RMU DRW. AS

TRA. _____ CHK: RMU

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FORM EF6



*SEE GENERAL NOTE NO.1.

- Antonia

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FIELD FENCE BARBED WIRE) NO SCALE



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	11 <u>0</u> 11	⊗ CUBIC YA	RDS OF SUBBA	SE FOR APPRO	DACH SLAB	
SLAB	28'-0"	STD. 9017K 15.63	STD. 9017L	STD. 9017P	STD. 9017Q	
	29'-6"			16.47		
	30'-0" 31'6"			17.54	12.43	
· • (32'-0"	17.75	12.58	18.60	13.19	
BRIDGE	34'-0"			10.00	13.10	
	35'-6"	19,87	14.08	19.67	13.94	
	37'-6"			20.74	14.70	⊗ QUANTITES GI
	<u>38'-0"</u> <u>39'-6"</u>			21.81	15.46	INFORMATION (
	40'-0"	21.99	15.59	22.88	16.21	
	42'-0"	23.05	16.34	22.00	10.21	FOR 30' APPR
	43'-6'			23.94	16.97	CU. YARDS = (
	45'-6"		17.04	25.01	17.73	FOR 20' APPR CUBIC YARDS
	46'-0" 47'-6"		17.84	26.08		
	48'-0"	26.23	18.59	27.15		
	<u>49-8</u> 50'-0"			27.13		
POST	51'-6" 52'-0"	28.35		28.22		
	53'-6"	20,00		29.29		
	54'-0" 55'-6"			30.35		
	56'-0"			71.40		
	57-6	31.53		JI_4Z		
	59'-6" 60'-0"	32,59		32.49		
=_	61'-6"	52.55		35.56		
	62'-0" 63'-6"	33.65		34.63		IF
	64'-0"	34.71		25.70		FL OF
	65'-6"	35.77		35.70		BE TH
(BRIDGE)						/
	SPILLWA	Y	AP	PROACH SLAB	• • • • • •	
V				— SUBBASE —		<u>, , , , , , , , , , , , , , , , , , , </u>
POST			(CC	NDITION #IOR	#2) /	
					L	SEE 🖄 NOTE
			CROSS	SECTIONAL	VIEW	
	NOT	E: SUBBASE S	HOWN ABOVE F	OR APPROACH	SLAB WITH SPILL	WAY ON ONE S SIMILAR
		FOR APPRO	ACH SLAB WITH	H TRANSITION (CURB OR OTHER (DRAINAGE
BRIDGE						
	COND Wher	ITION #1: E THE CONTR.	ACT FOR THE	BRIDGE AND AF	PROACH SLABS IS	S LET SEPARATE
	FRŌM WILL	THE ROADWA	Y PAVING CON S" CONCRETE A	TRACT, THE SU CCORDING TO S	BBASE FOR THE SECTION 500. IN	APPROACH SLAB This case, payment
	FOR	THE SUBBASE	WILL BE INCLL	JDED IN THE PA	AYMENT FOR THE	APPROACH SLAB.
	COND	ITION #2:				
	CONT	RACT, THE AP	AT PAVING ANL PROACH SLAB	SUBBASE MAY	ARE LET UNDER BE EITHER CLASS	CS" CONCRETE
	SUBB DAVM	ASE SUCH AS	GRADED AGGR	EGATE, P.C. CON	NC. SUBBASE, ETC.	IN THIS CASE,
BRIDGE	APPR	OACH SLAB.	JUUUAJE WILL	. JE INVEUDED	AN THE LATIVIENT	

 * EXPANSION JOINT REQ'D. SAME AS BETWEEN APPROACH SLAB & BRIDGE, IF SUBBASE IS PORTLANT CEMENT CONCRETE OR CLASS "CS" CONCRETE.

				STATE	PROJECT NUMBE	R SHEET NO.	TOTAL SHEETS
				04.			<u> </u>
VEN IN THE TABLE ARE NSIONS AND ARE GIVEN ONLY.	E BASE I FOR	D UPON					
OF SUBBASE FOR USE TABLE, MAY BE ESTIM	WITH : IATED V	STD.9017M, With the fo	STD.9017N OR FOR L Ollowing formulae:	JSE WIT	H SLAB SIZES		
OACH SLABS: 0.5298 TIMES SLAB WI	DTH (IN	FEET)					
0ACH SLABS: = 0.3755 TIMES SLAB	WIDTH	(IN FEET)					
MAT'L. UNDER APPROA	.CH SLA	AB IS					
GUARDRAIL POST, THE Extended similarly E roadway.	E LIMITS TO TH	S SHALL					
NOTE:	S" CONC	RETE OR P.	.C. CONC. SUBBASE IS	USED,	CLEAR POLYET	HYLENE	
LAYE	HING 8 D, SHAL ING POL DIES R	MILS, MIN. I L BE REQUI _YETHYLENE IPS AND TE	IRED UNDER THE APPI SHEETING SHALL BE	OVERLA Roach New, u	SLAB TO PREV JNUSED AND FF	r ENT ≷EE	
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	3-2		STATE (OF GE	ORGIA		
	- - -	-	CONSTRUC		N DETAI		
	ED NOTE	SU	BBASES FOR		ROACH SL	ABS	
	REVIS	NO SCALE			REV. &	REDRAWN C)CT. 1985
		_				NUM	BER
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		r		
- OVERLAY			PLAIN PC CO OR ROLLER COMPA	ONCRETE
<u>ESIRABLE</u> ** IAXIMUM	*			EDGE OF F
FINISH GRADE	<u>D SHOULDER</u>			8"
STING SHOULD	DER	ADDITIONAL QUA CONCRETE 0.07407 SY/FT	AGGREGATE BASE AGGREGATE BASE * NOTE: IF REQUIRED. ANTITIES: X LENGTH (FT) =SY	2" M
-FT X LENGTH (F	T) =TN	ASPHALT INTER (T) IN. X LENGT AGGREGATE BA (T) IN. X LENGT	RLAYER, IF REQUIRED H (FT) X 0.004074 TN/INFT =TN SE (BASED ON 2.07 TN/CY) H (FT) X 0.0042592 TN/INFT =TN	
	 I. THE SAFETY EDGE SHALL BE CONSTRUCTED AS AN INTEGE OPERATION OF THE ROADWAY PAVEMENT PLACEMENT PRO (ASPHALT PAVEMENT) 2. USE AN APPROVED MECHANICAL DEVICE THAT WILL: APPLY COMPACTIVE EFFORT TO THE ASPHALT MIXTUF ELIMINATE OBJECTABLE VOIDS AS THE MIXTURE PASSI THROUGH THE WEDGE DEVICE. PRODUCE A WEDGE WITH A UNIFORM TEXTURE, SHAPE, WHILE AUTOMATICALLY ADJUSTING TO VARYING HEIGHT 	RAL DCESS. RE TO ES AND DENSITY TS ENCOUNTERED	CONTINUOUS R	EINFORC
	 ALONG THE ROADWAY SHOULDER. 3. A SINGLE-PLATE STRIKE-OFF METHOD SHALL NOT BE USE PAVING, AS THE SINGLE-PLATE STRIKE-OFF METHOD HAS TO PRODUCE A NON-DURABLE EDGE. 4. COMPACTION OF THE EDGE SHOULD NOT BE DONE WITH TH OF THE ROLLER: WITH THE ROLLER STAYING OFF THE EDGE 6 INCHES. THIS IS IN ORDER TO ALLOW THE EDGE MIX TO COOL PRIOR TO COMPACTION. 5. SHORT SECTIONS OF HANDWORK ARE ALLOWED, WHEN NECE TRANSITIONS AND TURNOUTS. 	ED FOR BITUMINOUS BEEN FOUND HE FIRST PASS GE AT LEAST O SLIGHTLY ESSARY, FOR	CONTINUOUS REINFORCED CONCH ASPHALT INTERLAYER AGGREGATE BASE	8" 5" VAR 2" M
		ADDITIONAL QUANTI CONCRETE 0.07407 SY/FT X ASPHALT INTERLAY (T) IN. X LENGTH (F AGGREGATE BASE ((T) IN. X LENGTH (F	* NOTE: IF REQUIRED. ITIES: LENGTH (FT) =SY (ER, IF REQUIRED T) X 0.004074 TN/INFT =TN (BASED ON 2.07 TN/CY) T) X 0.0042592 TN/INFT =TN	2' 2' 2' 2' 2' 2' 2' 2' 2' 2'







EDGE OF

	STATE PROJECT NUM GA.	BER NO. SHEETS
OULDER BEGIN ANCHOR END W-BEAM	GRASSED SLOPE	
	GRASS	SHOULDER (TYP)
WIDTH OF NORMAL PAVED SHOULDE		
TRAVELED WAY PAVING <	TRAFFIC FLOW	
DETAIL "A" ADDITIONAL SURFACING AT GUAR[)RAIL	
IYPICAL PLAN VIEW		
GENERAL NOTES:		
GUARDRAIL IS REQUIRED 2. DETAILS OF NORMAL SHOULDER PAVING ARE SI	10WN FOR ILLUSTRATIVE	PURPOSES
ONLY. SEE PROJECT PLANS FOR MATERIALS A 3. ADDITIONAL SURFACING SHALL TERMINATE AT	ND DIMENSIONS. The face of the guard	RAIL.
4. THE NORMAL PAVED SHOULDER WIDTH MAY BE GUARDRAL, WHERE SPECIFIED ON PROJECT PLAI	EXTENDED TO THE FACE NS.	OF THE
5. IN AREAS WITH HIGHLY ERODIBLE SOIL, TEMPOR SHALL BE PLACED ON THE SHOULDER UNTIL T AND STABILIZED.	ARY EROSION CONTROL N HE FORESLOPE IS FULLY	IEASURES GRASSED
6.SEE GUARDRAIL STANDARDS FOR SHOULDER WI WHERE REQUIRED)ENING DIMENSIONS AT A	NCHORAGE,
7. SEE PROJECT PLANS FOR SHOULDER DIMENSION 8. THE 2-FT OFFSET IS NOT REQUIRED FOR FREM WITH 14-FT WIDE NORMAL SHOULDERS	IS. EWAYS AND INTERSTATES	
DEPARIMENT 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	E OF GEORGIA	
CONSTR	UCTION DETA	
A T SHOULDER PA	VING AND SUR Guardrail	FACING
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	24'0" _{OR}	4' 0" 6' 0" 1 22' 0" 6' 0" 4' 0" 0P 10' 0" VA	RIES WITH DITCH AND FILL HEIGHT - 2'O" MIN. BERM
	*361-0″	- 19'0" 3'0" 19'0" 	BACK EDGE OF DITCH
		Line in the second	VARIED: SEE PLAN AND ELEV. SHEET
		NORMAL DITCH DEPTH SEE ROADWAY SECTION MAINLINE WITH SIDE DITCHES	CUT OFF WALL
	ALL CONCRETE SLOPE	PAVING BETWEEN THESE LINES TO BE INCLUDED IN ROADWAY QUANTITIES	4" CONCRETE SLOPE PAVING INCLUDED
		SLOPE OR SHOULDER	* WHERE ROADWAY PANEMENT WINDTH IS 361-60 CONFORTE
	ROADWAY SHLDR.	VARIES WITH DITCH AND FILL HEIGHT	EXPLANSION MATERIAL AROUND COLUMN
		BACK EDGE OF DITCH	GENERAL NOTES.
			"A" - 4" CONCRETE SLOPE PAVING "B" - SHOULDER PAVEMENT PER ROADWAY PLANS "C" - ROADWAY PAVEMENT PER ROADWAY PLANS SECTIONS SHOWN ARE TYPICAL FOR ACTUAL
		DETAIL AT COLUMNIN DRENDFILL GRENDFILL CMEDIAN AND ¢	ITCH TEMPLATE SEE ROADWAY PLANS. SECTIONS ARE SHOWN NORMAL TO C MEDIAN. LIMIT OF 4" SLOPE PAVING IS OUT TO OUT WIDTH OF UNDERPASS PLUS 5'O" EACH SIDE
		4" CONCRETE SLOPE PAVING INCLUDED	"D" - OMIT 4" CONCRETE SLOPE PAVING IN MEDIAN BRIDGES 28 FT. WIDE OR LESS "E" - 6" CONCRETE SLOPE PAVING
VED S	HOULDER		LA BURNAY SECTION
		BENT COLUMN	EXPANSION MATERIAL AROUND COLUMN PAVING DETAILS
		DETALLAT MEDIA	N R. M. U "B" OR "E" ON SHLD 11 - 29 - 83 REDRAWN - MARCH, 1976 ADDED 6" CONC. SLOPE PAV R. M.U 11 - 29 - 77

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	ROADWAY SHLDR	VARIES WITH DITCH AND FILL HEIGHT	PAVING 2'-O" MIN.
	VARIES		BERM
			BEAM COLUMN
			DETAIL AT COLUN ORENDFIL
		4" CONCRETE SLOPE PAVING INCLUDE	
V E D	SHOULDER		
			BENT COLUMN
			ΒΕΓΑΙΕΑΤ

FED. ROAD STATE FED. AID FISCAL SHEET TOTAL DIV. NO. STATE PROJ. NO. YEAR NO. SHEETS - producer - management of a special constraint and a second second second second second second second second s 3 GA. "A" ""E" VARIES WITH FILL HEIGHT N VARIES: SEE PLAN AND ELEV. SHEET TO SIDE DRAIN PIPE-SEE ROADWAY PLANS CUT OFF WALL

4" CONCRETE SLOPE PAVING INCLUDED IN BRIDGE QUANTITIES



NOTES :

- I. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO I OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE.(SEE DIAGRAM ABOVE)
- 2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (I) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT ³/₄ THE WIDTH OF THE TYPICIAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.
- 3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.







- I. SLOPES STEEPER THAN 3:ISHALL BE SERRATED.
- 2.WIDTH OF STEP SHALL BE 3 FT \ IFT.
- 3. HEIGHT OF STEP IS A FUNCTION OF WIDTH AND STAKED SLOPE.
- 4. TREAD OF STEP SHALL BE APPROXIMATELY HORIZONTAL.
- 5. SERRATED SLOPES SHALL BE USED ON ALL PROJECTS IN DISTRICTS I, 6, AND 7, EXCEPT WHERE SPECIFICALLY EXCEPTED BY THE GEO-TECHNICAL BUREAU IN THE SOIL SURVEY REPORT. SERRATED SLOPES SHALL NOT BE USED IN DISTRICTS 2, 3, 4, AND 5, UNLESS REQUIRED BY THE SOIL SURVEY.

	STATE PROJECT NUMBER SHEET TOTAL NO. SHEETS
SERRATED SLOPE DETAIL	
<u>3 FT ± IFT</u> <u>STAKED SLOPE</u> (PAY LINE)	
4 FT ± NO SCALE	
DEPARTME	NT OF TRANSPORTATION
	STRUCTION DETAIL
SERE	RATED SLOPE DETAIL BENCHING DETAIL
LENI CEN. REVISED	JULY, 1981
G.L.O. BY	NUMBER







C D R

18 15 3

60 3

EQUILATERAL TRIANGLE







VERTICAL RECTANGLE

Α	В	С	D	R
12	18	1 ¹ /2	15	1 ¹ /2
18	24	3	18	1 ¹ /2
24	30	3	24	1 ¹ /2
30	36	3	30	1 7⁄8

А	В	С	D	E	F	R
36	48	6	36	6	24	21/4
48	60	6	48	9	30	3



HORIZONTAL RECTANGLE

А	В	(
48	36	1
60	24	
60	36	

А	В	C	D	R
21	15	1 ¹ /2	12	11/2
24	12	1 ¹ /2	9	11/2
24	18	З	12	11/2
30	15	1 ¹ /2	12	11/2
30	24	3	18	1 ¹ /2
36	12	11/2	9	1 ¹ /2
36	24	3	18	11/2
48	12	1 ¹ /2	9	1 ¹ /2
48	24	3	18	1 7/8

A		/	/	
	-			
			Ρ	1
		4		
		30)	ſ
		36	5	ſ




SIGN POST SELEC

70 MPH Wi

		SLIP BASE N	OTREQUIRED	
	TYP 2'' 14	TYPE 9 2-1 /4'' 14 ga	2-	
Sign	1 Post	2Post	1 Post	
Centroid		SQUARE	FOOTAGE	
6'	13.50	27.00	19.25	
7'	11.60	23.20	16.50	
8'	10.15	20.30	14.45	
9'	9.00	18.00	12.85	
10'	8.10	16.20	11.55	
11'	7.40	14.80	10.50	
12'	6.80	13.60	9.65	
13'	6.25	12.50	8.90	
1 4'	5.80	11.60	8.25	
15'	5.00	10.00	6.45	
16'	4.70	9.40	6.05	
17'	4.40	8.80	5.70	
18'	4.15	8.30	5.40	
19'	3.95	7.90	5.10	
20'	3.75	7.50	4.85	

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BC TTOM EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOT

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST

* TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4' THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT PO

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE ME INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMI

		<u> </u>	STATE		PROJECT NU	MBER	SHEET NO.	TOTAL SHEETS
			GA.					
CH	ART							
bad (Chart + 15	Gust Facto	or			1		
	GROUN	D MOUNTED		SIGN SUPPOR		-		
s ga.	2-1.	1PE 8 12''12 ga.	2-1 /2''	- 8 w / 1 TPE 9 12 ga. W /2-1	4°14 ga.			
t	2Post	3Pos	t 1 Post	2Post	3Post			
			SQUARE FOOT	TAGE	·····			
	60.00	90.00) 49.25	98.50	147.75			
_	51.50	67.65) 42.25	84.50	126.75			
	40.00	60.00) 32.85	65.70	98.55			
	36.00	54.00) 29.55	59.10	88.65			
	32.80	49.20) 26.90	53.80	80.70			
-	30.00	45.00) 24.65	49.30	73.95			
	27.70	41.55	22.75	45.50	63.45			
	20.20	30.30) 16.55	33.10	49.65			
	18.90	28.35	5 15.50	31.00	46.50			
	17.80	26.70) 14.60	29.20	43.80			
	16.80	25.20) 13.80	27.60	41.40			
	15.90	23.85) 13.05	26.10	39.15			
	15.10		, 12.40	24.8U	J7.20	J		
			TOF SIGN.					
GN P	LUS HALF	HALE OF 48	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	DI107FT -	Q' CENTROID			
GN P DF SI	<i>LUS</i> HALF IGN. ADD	HALF OF 48	3" (24" OR 2 F D	<i>PLUS</i> 7 FT. =	9' CENTROID			
GN P DF SI	<i>lus</i> half Ign. Add	HALF OF 48	3" (24" OR 2 F T)	<i>PLUS</i> 7FT. =	9' CENTROID			
GN P DF SI THE	<i>LUS</i> HALF IGN. ADD TYPE 8	POST W	FRE REQUIRE	PLUS 7 FT. = D. THE INS	9' CENTROID ERT POST S	HALL EXTEND) FROM	M /F
GN P DF SI THE _OW SHAI	<i>LUS</i> HALF IGN. ADD TYPE 8 THE BO L BE PE	POST WITTOM OF	HERE REQUIRE THE SIGN. THE FOOT OF TY	<i>PLUS</i> 7FT. = ID. THE INS IE INSERT F PE 9 POST	9' CENTROID ERT POST S POST SHALL	HALL EXTEND) FROM Abov	M /E
GN P DF SI _DF SI _DW _SHAI	LUS HALF IGN. ADD TYPE 8 THE BO LL BE PE	POST WI TTOM OF R LINEAR	HERE REQUIRE THE SIGN. TH FOOT OF TY	<i>PLUS</i> 7 FT. = .D. THE INS IE INSERT F PE 9 POST	9' CENTROID ERT POST S POST SHALL)R THIS WOI	HALL EXTEND NOT EXTEND) FROM ABOV	M /E
GN P DF SI DF SI LOW SHAL RED S ''A	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL	HALF OF 48 POST WH TTOM OF R LINEAR FOR SEN	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	PLUS 7 FT. = D. THE INS IE INSERT F PE 9 POST IE COST FO ECESSARY	9' CENTROID ERT POST S POST SHALL)R THIS WOI FO COMPLET	SHALL EXTEND NOT EXTEND RK SHALL E THE) FROM ABOV	M /E
GN P DF SI DF SI SHAI SHAI RED S ''A FOR	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL ONCR TEM 63	HALF OF 48 HALF OF 48 TTOM OF R LINEAR FOR SEF ETE, ALL 56-3010.	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	<i>PLUS</i> 7 FT. = ID. THE INS IE INSERT F PE 9 POST IE COST FO ECESSARY	9' CENTROID ERT POST S POST SHALL)R THIS WOI FO COMPLET	HALL EXTEND NOT EXTEND RK SHALL E THE) FROM ABOV	VI /E
GN P DF SI DF SI LOW SHAI SHAI SHAI SHAI	LUS HALF IGN. ADD THE BO L BE PE AND PAIL ONCR TEM 63	HALF OF 48 HALF OF 48 TTOM OF R LINEAR D FOR SEF ETE, ALL 56-3010.	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	<i>PLUS</i> 7 FT. = ID. THE INS IE INSERT F PE 9 POST IE COST FO ECESSARY	9' CENTROID ERT POST S POST SHALL)R THIS WOI FO COMPLET	HALL EXTEND NOT EXTEND RK SHALL E THE) FROM Abov	M Æ
GN P DF SI DF SI LOW SHAI RED S ''A FOR	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL ONCR TEM 63	HALF OF 48 HALF OF 48 TTOM OF R LINEAR D FOR SEI ETE, ALL S6-3010.	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	<i>PLUS</i> 7 FT. = ID. THE INS IE INSERT F PE 9 POST IE COST FO ECESSARY	9' CENTROID ERT POST S POST SHALL OR THIS WOI FO COMPLET	HALL EXTEND NOT EXTEND RK SHALL E THE) FROM	M Æ
GN P DF SI _OF SI _OW SHAI SHAI S ''A FOR	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL ONCR TEM 63	HALF OF 48 HALF OF 48 TTOM OF R LINEAR D FOR SEI ETE, ALL 36-3010.	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	<i>PLUS</i> 7 FT. = D. THE INS E INSERT F PE 9 POST E COST FC CESSARY	9' CENTROID ERT POST S POST SHALL OR THIS WOI	HALL EXTEND NOT EXTEND RK SHALL E THE) FRON ABOV	M Æ
GN P DF SI DF SI SHAI SHAI S ''A FOR	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL ONCR TEM 63	HALF OF 48 HALF OF 48 TTOM OF R LINEAR D FOR SEI ETE, ALL 56-3010.	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	PLUS 7 FT. = D. THE INS IE INSERT F PE 9 POST IE COST FC ECESSARY	9' CENTROID ERT POST S POST SHALL OR THIS WOI TO COMPLET	NOT EXTEND NOT EXTEND RK SHALL E THE) FROM ABOV	ν /E ΓF
GN P DF SI DF SI SHAI SHAI S ''A FOR	LUS HALF IGN. ADD THE BO L BE PE AND PAIL ONCR TEM 63	DATE	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	PLUS 7 FT. = ID. THE INS IE INSERT F PE 9 POST IE COST F ECESSARY	9' CENTROID ERT POST S POST SHALL OR THIS WOI FO COMPLET GEORGIA	HALL EXTEND NOT EXTEND RK SHALL E THE DEPARTME NSPORTAT	D FROM ABOV	M /E OF
GN P DF SI DF SI LOW SHAI RED S ''A FOR	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL ONCR TEM 63	DATE	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	PLUS 7 FT. = D. THE INS IE INSERT F PE 9 POST IE COST FC ECESSARY INS OF	9' CENTROID ERT POST S POST SHALL OR THIS WOI FO COMPLET GEORGIA TRA FICE OF TF	HALL EXTEND NOT EXTEND RK SHALL E THE DEPARTME NSPORTAT) FROM ABOV NT (I ON TY & I	M /E DF DESIGN
GN P DF SI DF SI LOW SHAL SHAL S ''A FOR	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL ONCR TEM 63	DATE	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	PLUS 7 FT. = D. THE INS IE INSERT F PE 9 POST IE COST F(ECESSARY INS OF	9' CENTROID ERT POST S POST SHALL OR THIS WOI FO COMPLET GEORGIA TRA FICE OF TF	HALL EXTEND NOT EXTEND RK SHALL E THE DEPARTME NSPORTAT RAFFIC SAFE	P FROM ABOV ENT (I ON TY & I 9	M /E DF DESIGN
GN P DF SI DF SI SHAI SHAI S ''A FOR	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL ONCR TEM 63	DATE	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE	PLUS 7 FT. = D. THE INS IE INSERT F PE 9 POST IE COST F(ECESSARY OF OF	9' CENTROID ERT POST SPOST SHALL OR THIS WO TO COMPLET GEORGIA TRA FICE OF TF TYPE SQUA	HALL EXTEND NOT EXTEND RK SHALL E THE DEPARTME NSPORTAT RAFFIC SAFE 7, 8, AND RE TUBE POS	P FROM ABOV I ON TY & I 9 ST	M /E DF DESIGN
GN P DF SI DF SI SHAI SHAI S ''A FOR	LUS HALF IGN. ADD THE BO L BE PE AND PAIL CONCR TTEM 63	DATE	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE REVISIO	PLUS 7 FT. = D. THE INS IE INSERT F PE 9 POST IE COST F(ECESSARY INS OF	9' CENTROID ERT POST S POST SHALL OR THIS WO TO COMPLET GEORGIA TRA FICE OF TF TYPE SQUA INSTA	DEPARTME NOT EXTEND RK SHALL E THE DEPARTME NSPORTAT AFFIC SAFE 7, 8, AND RE TUBE POS LLATION DET	P FROM ABOV NT (ION TY & I 9 ST AIL	M /E DF DESIGN
THE F SI HAL ED ''A	LUS HALF IGN. ADD THE BO LL BE PE AND PAIL CONCR TTEM 63	DATE	HERE REQUIRE THE SIGN. TH FOOT OF TY PARATELY. TH HARDWARE NE REVISIO	PLUS 7 FT. = ID. THE INS IE INSERT F PE 9 POST IE COST F(ECESSARY INS OF 	9' CENTROID ERT POST S POST SHALL OR THIS WO TO COMPLET GEORGIA TRA FICE OF TF TYPE SQUA INSTA	DEPARTME NOT EXTEND RK SHALL E THE DEPARTME NSPORTAT AFFIC SAFE 7, 8, AND RE TUBE POS LLATION DET	P FROM ABOV I ON TY & I 9 ST AIL	Δ /E DESIGN



	STATE PROJECT NU GA.	MBER SHEET TOTAL NO. SHEETS
MEDIAN		
AIN. DISTANCE OF SOLID Double Yellow Line		
NOTE: CROSS PATTERN LINES ARE ALWAYS Parallel with direction of travel		
O'MIN.WITH No sidewalk		
— 24"SOLID WHITE (TYP)		
D STOP BARS		
LANE WIDTH (L)		
8'GAP (TYP) 8'MIN., OR WIDTH OF SIDEWALK, WHICHEVER IS GREATER (BUT NOT MORE THAN I' BEYOND EDGE OF SIDEWALK)		
EDS 12' OMITTED		
	F TRANSPC of georgia	RTATION
PAVEMENT MA BED GENERAL NOI-LIMITED	RKING PLACE	EMENT DWAY
Image: Image	J	NUMBER



REVERSIBLE LANE



5"SKIP DOUBLE YELLOW-



5"SKIP YELLOW-

NO PASSING ZONE



	STATE	PROJECT NUMBER	SHEET	TOTAL
TWO WAY LEFT TURN LANE	GA.			
(CLEAR/RED) SKIP TES BELOW) (SEE NOTES BELOW)				
5" SOLID YELLOW				

GENERAL NOTES:

I.RAISED PAVEMENT MARKERS SHALL BE SPACED EVERY 40 FT UNLESS OTHERWISE SPECIFIED. 2. ON SOLID WHITE TURN BAY LINES, SPACING SHALL BE 20 FT. 3. RAISED PAVEMENT MARKERS SHALL BE OFFSET 5 INCHES FROM SOLID LANE LINES. 4. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD ONCOMING TRAFFIC.

_		
	9-15-2016 DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
	T0 40′	CONSTRUCTION DETAILS
	PM SPACING REVISION	RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY
	REV. R	NO SCALE REV. AND REDRAWN, JUNE 2015
	CDR BY	DESIGNED NUMBER DRAWN TRACED CHECKED



PCBDTB

9/2272011 10:58:57 AM \\GDUI-DSNI\GUPLUI\QCF\GU_KIp8UUU.qct gowens V:\GARY\Raised Pavement markings\II5c.pri







				STATE	PROJECT NUM	BER SHEE NO.	T TOTAL SHEETS
				GA.			
-							
	50′		<u></u>				
BEGIN SHOU 50' AFTER	ULDER RUMBLE ST THE END OF THE	TAPER.					
SHOULDER	RUMBLE ST	RIP PLAC	EMENT				
INTERSECTI	ONS WITH	FURN LAN	NES				
			BEGIN I STRIP AT	NSIDE T THE	SHOULDER BEGINNING	RUMBLE OR END	
- •	MEDIAN		OF RADI	US AF1	ER MEDIAN	BREAK.	
	OPENING						
		9					
SHOULDER	RUMBLE ST NS WITHOU	RIP PLAC T TURN L	EMENT ANES				
			BEGIN	I INSIL	DE SHOULDE	R RUMBL	E
			STRIP OF RA	AT TH Adius ,	'E BEGINNI AFTER MEDI	NG OR EI AN BREA	ND K
	OPEN I NG						
	DAT			OF GE			
	NOISI		SHOULDER	RUME	DETA BLE STRI	ILS P:	
	REVI		NON-	FREE	WAY		
		DESIGNED DRAWN			AIE: SEP		2017 BER 270
SIRIP DETAILS		CHECKED					<u> </u>

RUMBLE STRIPS BEGIN TAPER	INSIDE SHOULDER RUMBLE STRIP
INSIDE SHOULDER RUMBLE STRIP —	PAVEE

ENTRANCE RAMP

END RUMBLE STRIP AT PHYSICAL



EXIT RAMP

GENERAL NOTE REFER TO T-25 FOR RUMBLE

			SHEET TOTAL
		GA.	T NUMBER NO. SHEETS
JGORF	TRANSITION FROM S	HOULDER RUMBLE AS	
	DESCRIBED IN 1-	23B IU FREEWAY R RUMBLE	1111 M
			FRAN
) SHOULDER		ENTRA	
		PAVED CHOULDED	
		SHUULDER	
	`		
		KUMBLE 3	
	BEGIN FREEWAY RU	MBLE STRIP AT PHY	SICAL GORE
	PAVED SHOUL	_DER	
	EXIT RAMP		
SITION TO SHOULDER	RUMBLE AS		
SHOULDER RUMP	M FREEWAY J F		
		NT OF TRANS	PORTATION
		STATE OF GEORGIA	
	CONST	RUCTION DE	TAILS
	STRIP:	ASPHALT FREI	-¢ EWAYS
	NO SCALE		SEPTEMRER 2017
	DESIGNED		NUMBER
SIRIF DETAILS			T-23C



				STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
OULDER				GA.			
STRIP DETA	ILS						
		0	UTSIDE				
	≥4'F MILLEL WIT	PAVED SHOU D RUMBLE S TH OTHER F	LDER WITH STRIPS ON P PAVEMENT M	16" ROADS IIX			
	Roadway Centerline		$\begin{array}{c} 33 \\ \hline \\ 34 \\ \hline \\ 70 \\ $				
	OGFC OR With	PEM, \geq 4' 16" MILLED	** PAVED RUMBLE S	SHOULDE TRIPS	ER		
	ROADWAY CENTERLINE ROADWAY CENTERLINE COMUNA COMUNA COMUNA	RAVEL LANE	SHOUL $\geq 4'$ PAVED SHOULD 8" $ 6" $ VARIE *	DER ER ES RUMBLE STRIPS			
	* 1	NOTE: DRAINAGE CC	DURSE OGFC OR PE	EM TO			
	 * *	BE PLACED ON TO A DISTANCE OF 18" NOTE: IF OFGC OR TO ACCOMMODATE PAVED SHOLILDER	THE SHOULDER P ON THE OUTSIDE PEM SHOULDER IS BIKING ON THE SH MUST BE A MINIMI	AVING SHOULDER. UTILIZED OULDER, IM OF 7' WIDF.			
outside skip patte	ERN (FOR NO)	N-FREEWAY, U	'SE CONTINUOL	IS PATTERI	N FOR FREEWAY)		
	 	<i>30</i> ′ —		 ⊨ APS (TYP)			
	DATE	DEPAR	TMENT	OF TF	RANSPORT	TATIC	N
TION B-B		СС) NSTRU	ction	DETAIL	S	
	REVISION	RI SHOU	JMBLE S [.] LDER,ED	TRIP D GELINE	ETAILS FO AND FREE	R Eway	
		NO SCAL	E	D	ATE: SEPTE		2017
	B	DRAWN TRACED CHECKED					25





(d)	THE OTH	ST ER	JB WI TYPE	TH A	NORN	AAL CONNECTING BAND.
	D.0.	Τ.				
	~ · - /					
LAN: EWAI	S I⊺t LL.	EMIZ	E ONE	-		
				ل بر		NEDADTMENT OF TRANSPORTATION
				2-9-1	DATI	STATE OF GEORGIA
					2	
						STANDARD
				TIME	VISION	FLARED END SECTIONS
					S C	FOR PIPES
						NO SCALE REV.& REDR. SEPT., 1999
					_	DES (SUBMITTED) But A State NUMBER
					B	RETR (APPROVED) Oil & MIRPORT DESIGN ENGINEER 120
						CHIEF ENGINEER

- (b) A DIMPLE BAND COLLAR WILL BE SHOP BOLTED TO END SECTION, PIPE WILL BE INSERTED INTO BAND COLLAR TO MEET THE END SECTION.
- (a) A STRAP BAND OR THREADED ROD PROVIDED BY THE MANUFACTURER WILL LOCK END SECTION ONTO PIPE. A CORRUGATION AT THE PIPE AND WILL BE NON-SPIRALED (PERPENDICULAR TO CL OF PIPE)
- NOTE "B": THE CONNECTION BETWEEN METAL FLARED END SECTION AND C.M. PIPE WILL BE ONE OF THE FOLLOWING:

FRONT



FLARED

PIPE

THICKNESS

H=0.25D +- |" L=1.67D +- 11/2 W=2.0D SIZE "D" B=0.5 D A= 0.4D GALV. ALUM. +- 2" STEEL +- |" +- |" (MIN.6) 2′0" .064" .060 ľ8" -6" 12" .060 7" 2'3" 2′6" .064" l5" 3′0" .064" .060" ٩۳ 2′6" 8 l'0" 3′4" 4′0**"** .064" .060 - **9*** 24" 6" .079" ľ0" |'3" 4′2**'** 5′0" 30" .105" ľ6" .105" 5′0" 36" .079" 1′2 q" 6′0" ľ9" 540" **.**I64" Ľ5" 10" 7'0" 42" .109"

ONLY WITH CORRUGATED STEEL PIPE AND ALUMINUM FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED ALUMINUM PIPE UNLESS OTHERWISE APPROVED BY D.O.T. OFFICE OF MATERIALS AND TESTS.
--

END SECTION DIMENSIONS

STATE	PROJECT NUMBER	SHE NC
GA.		

T TOTAL SHEETS



PART OF PIPE EXTERIOR.

1/15/02 2:43:35 PM //CDOT-DSN1/COPLOT/OCF/gord_oce9600_mylar.qcf darbyd M:/standard/English/1030d1.prf

						ζ.	STATE	PROJECT N	UMBER	SHEET NO.	TOTAL SHEETS
				n an			GA.				
RETE PIPE IF IFALLS ON THE D AREA SHOWS ECT BACKFILL ELOW CROSS LIMITS OF PIPE LENGTHWISE.											
				₩₩₩ • ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩		ι,					
						v					
	NOTE: I. FOR 2. ONL FOR WIL	FIL _Y (R EA L B	L I DNE ACH E [HEIGHT TA CLASS O INDIVIDUA DETERMINE	BLES SEE R THICKNE AL LOCATIO D BY THE	SHEET ESS OF DN. THE MAXIML	2 OF PIPE V CLASS JM HEI	3 AND SI WILL BE S OR THIC GHT OF F	HEET PECIF KNES	3 OF FIED SS	3.
n An San											
						τ.					
			DATE	DEPA		NT OF	F TF	RANSP(Orgia	ORT	ATIC	N
			REVISION	CON (TRENCH	NCRETE H CONST	STA & ME SHEE RUCTIO	NDA ETAL T IOF DN, BE	RD PIPE 3 Edding, E REV. & R	CUL BACK	VERT	S 1G)
			ВΥ	DES (DRW TRA (CHK (SUBMITTED) ST APPROVED)	Apres MEROAD Crml CH	A. Ken & AIRPO	RT DESIGNED	4GR.	NUMI 103	BER OD

	PIPE	(INCHES)	\sim	<u>L</u>	∞	24	30		9 E		42	Z Z	0 F	54		00		99	72		78	ν	-	06	96	102	108	4	120	ONLY) VALENT GAGE 16 14 12 10	2 α <u>α 4 σ</u> σ	Ω ∞	STATE GA.	PROJECT NUM	1BER SHEET TOTAL NO. SHEETS
		80 - 90	.064 .075	_064 _105	_064 _105	620°	60I°		601	200 200 200 200		-168 -138		-l68		-l68														N0.3-(INFORMATION L THICKNESS EQUI .064 0.079 0.109 0.138	0.168 0.060 0.075 0.105	о.164 5 МАҮ ВЕ		PON AS	œ
		70 - 80	064 075	064 -075	-064 -105	> 070 - 1079	001°		60 	> [38	601	-138 138		168 138		> 89														COR. META			I OF 3. DING TO	BASED UI OTHERWIS DJUSTED	COMES 13. BECOMES
TUMINUM		60 - 70	064 075	,064 .075	_064 _105	-064 7054	079 - 079	-109 -109	-079 -135	-135 -109				-1 <u>3</u> 8	.164	-168 -138			- 168		.168											PIPE ONLY STRUCTION ISTRUCTION	EE SHEET ILL ACCOR	COMPUTED M PIPE IS Hall BE A	INCHES BE 5-40 FEET
GATED A LUMINUM		50 - 60	064 .075	,064 .075	-064 -105	-064 1054	V V 979	.135 	079	109 109	001. 109			- 138 109	. 164	- I38 - I38	-164 -168	- <u>1</u> 38	.168 .138		.168	>		-I68								DR STEEL -ICAL) CON) FOR CON	<pre>/Y LINE. SE CT BACKFI</pre>	PIPE) ARE - ALUMINU HEIGHTS SI	AMPLE: 12 Xample: 35
- CORRU Eel and a	ЫРЕ	40 - 50	V .064 .075	064 075	.064 .075	-064 105	.064	-105 V 079	.064 .135	-079 -079	079 079	601. 670		> 01- 601- 109	-135	> 601. 601.	-164 V 138	.109 .164	-138 -138	.164 V	.168 .138	- 168		. 38	-l68	.168	-168					8 5" X 1" F(SEAM (HEI ER NEEDED	S OF HEAV S IMPERFE	PIRAL RIB 000 PSI. II 3LE FILL F	RCENT. (EX Ercent. (E)
STEEL SS OF STE	VE TOP OF	35 - 40	064 075	-064 -075	-064 -075	.064	.064	-105 	.064 .135	-105 -064	.105 .105	070°	- 102	°70 970	135	, 109 979	. 35 	"I64	- <u>138</u>	.164 V	.168 .109		109 164	<u> 138</u>	.138	.138	. 38	.168	. 168	CONCRETE CONCRETE BACKFILL R "B" ON	" × 1/2"	X I" (OF R WELDED- IMUM COVI	BOTH SIDES E REQUIRE	UMINUM SF TH, fy=24, . IALLOWAI	ВҮ 15 РЕ1) ВҮ 15 РЕ
RUGATED 1 THICKNES	FEET ABO	30 - 35	V .064 .075	.064 .075	.064 .075	.064 .075	.064 .064	-105 	-064 -105	-075 V 064	-064 -064 -164	064 064		079 064	.164 .105 ~	019 601.	-135 -135 -138	.079 .135	- 138 - 109	.164 V	.168 .109	.164 .168	-109 -164	601	60]	<u> 138 </u>	.138	138	"I <u>3</u> 8	FO THE RIC CLASS V C CLASS V C PERFECT E TAIL "A" O	FILE 2 2/3	PROFILE 3" <-SEAM OF LOAD, MIN	TIONS ON E CRETE PIPI	DE (OR AL D STRENG TABLE NO	NCREASED DECREASED
E - COR Dr Minimun		25 - 30	V _064 _075	V .064 .075	064 075	064 075		.075 V 064	.064 .064 .105	-075 V -064	-064 -064 -164	.064 .064	.164 .164 .075	079 064	.164 .075 .v	, 109 .064	105 138	.064 .164 .135	-079	-135 135	.168 .079		.079 .135	-109 -164	- 601"	-104 	60I -	60I°	. 138	NDITIONS AVY LINE, QUIRES IM ING TO DE I OF 3.	TION PROF	L BE LOCH S-20 LIVE OF THE C	OR CONDIT LINE, CON	JGATED PIF IIMUM YIEL PSI), THE	HALL BE I HALL BE I
CONCRET ONCRETE (HEIGHT OF	20 - 25	,060 .060	064	-060 -060	.064 075	.064	-075 V 064	.064	.060 V 164	.064 .064 .135	064 064		.079 .064		-109 -064	- 105 - 105 - 138	.064 .164 .105	-138 -138 -164	-105	.168 .064	c01. V 891.	_079 _135	079 . اعج	-079 -25	60I.	60Iª	601	60I°	FOR CO THE HE, PIPE RE ACCORD SHEET	CORRUGA	DTES CORF PIPE SHAL PLY TO H DNSIBILITY	EQUIRED F OF HEAVY	I ANUARU. IUM CORRL 1AVING MIN 5y=20,000	VALUES S VALUES S
PIPE - ASS OF CO		15 - 20	.060 .060	-064 -060	-060 -060	-064 -060	.064	075 1V	.064 .05	-060 -1V	.064 .135	064	-135 -135 -060	070°		-109 -064	-075 -138	_064 _164 _105	.138 .064	-105 -105	.168 .064	c01. VI 891.	.064 .105	.064 135	079 1079	-079 -079	601	601	60I°	IS CONDTIONS SIDE OF NORMAL	I DENOTES	A 2 DENC ALUMINUM ALUES AP THE RESP(TION IS R	0R ALUMIN 004-H34 F 004-H32 (f	M COVER 0F FILL FEET)
ROUND F INIMUM CL		- 01		.064 .060	.060 .060	.064 .060	.064	.075 164	.064 .064	.060 III	.064 .064 .105	.064 .064	- <u>105</u>	079	.105 .060		060 851	064 164 075		-075 	.168 .064	-0 (5 -168	_064 _105			079				LINE, USE	or alum	2 OR ALUN Eel and <i>A</i> I cover v R and IS	CONSTRUC NDITIONS	VALUES F VALUES F ALLOY 3 HED AS 30	VS: ALL MINIMU NCHES) ALL <u>HEIGHT</u> 29.7-34.0
M = NO. –		<u> </u>	.060 .060	.060 .060		-064		-075 	-064 -075	060		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 102 -	.079 .064	.060		000 000 000	.064 .164 .075		-075 -075	.168 .064	c) ()" 1168	-064 -105	-064				01°16 109		MPERFECT Not Requir Shown on The Heavy Sackfill.	STEEL	STEEL 2 ALL STI MINIMUM GREATEI	FOR CO	TABLE ALCLAD FURNISH	FOLLOW B A C
TAE	MINIMUM	INCHES)	222				5								<u>_</u> 21 21	<u>1</u> [2] [2] [2] [2]				2 8 2	<u>ہ م</u>	2	202	2 8 8 7 7 7 7 7		24 24 24	54	24	24	P-26-01	DATE	DEPARTMENT	OF T	RANSPO Eorgia	RTATION
			CONCRETE STEEL I ALUM I	CONCRETE STEEL I ALUM I	STEEL ALUM ALUM	STEEL I	CONCRETE STEEL I	ALUM I Concrete Stffi i	STEEL 2 ALUM 1	ALUM 2 CONCRETE STFFI	STEEL 2 ALUM 1 ALUM 2	CONCRETE STEEL STEEL STEEL	ALUM I ALUM 2 ALUM 2	STEEL STEEL STEEL 2	ALUM ALUM 2 CONCRETE	STEEL 1 STEEL 2 ALLIM 1	ALUM 2 CONCRETE STFFL I	ALUM 1 ALUM 2 ALUM 2	CUNCRETE Steel 1 Steel 2 Attimate	ALUM 2 ALUM 2 CONCRETE	STEEL STEEL 2	CONCRETE STEEL I	STEEL 2 ALUM 2 CONCRETE	STEEL 2	CONCRETE STEEL 2	CONCRETE STEEL 2 ALLIM 2	CONCRETE STEEL 2 ALUM 2	CONCRETE STEEL 2 ALUM 2	STEEL 2	GEN. REV. NOTES	ED SEAM CONST. NOTE REVISION	S CONCRETE & SH (FILL HEIC CORRU	TANDA METAL IEET 2 (GATED N	ARD _ PIPE CU df 3 r concrei metal pip	ULVERTS TE & E)
	PIPE	(INCHES)	2	<u>10</u>	<u>∞</u>	24	30		(9 M		42	4)	ب 4		09		99	22		78	α	-	06	96	102	80	4	120		dry NO dry A dry A	SCALE (SU <u>BMITTED)</u> STATE (APPROVED)	Ames A. M HOAD & AIRP MAL CHIEF FNG	OCT ENCL ORT DEDICAL ENGR Calibration INFER	TOBER 21, 1998 NUMBER IO30D

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	PIPE DIAMETER (INCHES)	5	∞	24	30	9 M	42	48	54	09	99	72	78	84	06	96	102	108	14	120	
	80 - 90																				
	70 - 80		620°	60 I°	-108 																
\mathbb{M}	60 - 70		620°	60 I°	60 I°	60 I°															
ALUMIN	50 - 60		064	_079 _105	-1 06	. 09 . 35	60 I														
AL RIB	PIPE 40 - 50		.064	079	.079 .1 05		. 09 . 35	60													
ALLIMINI	<u>BOVE TOP OF</u> 35 - 40		.064	- 064 - 055	.079 .1 05	.079 .105	. 09 . 35	. 09 . 35	- 1 09 - 1 35	60 .	60 -										
S TEEL	= FILL (FEET) A 30 - 35		.064	.064	.064 .1 05	.079 .105	.079 .105	. 09 . 35	. 09 . 35	. 09 . 35	60	60									
RAL RI	25 - 30		_064 _060	.064 .075	.064 .075	_064 _1 05	-079 -079	_079 _1 05	_079 _135	. 09 . 35	. 09 . 35	- - - - - - - - - - - - - - - - - - -	60	60							
JE - SP	20 - 25		.064	.060	.064 .075	.064 .075	.064 .1 05	.079 .1 05	.079 .105	.079 .105	. 09 . 35	. 09 . 35	60 I	60 I°							
UND PIF	15-20		.064	.064	.064	.064 .075	.064 .075	.064 .1 05	064 .1 05	.079 .105	.079 .135	. 09 . 35	60 I°	60 I°							
	1 0 -1 5		.064	.060	.064 .060	.060 .060	.064 .075	.064 .105	.064 .1 05	.079 .105	.079 .135	. 09 . 35	60	60 I°							
C N O .	0 -		.064 .060	.064	.060	.060	.064 .075	.064 .105	.064 .1 05	.079 .079	.079 .135		60	60							
	MINIMUM COVER (INCHES)					~ ~ ~	5	24	245	24	24	2 4									
	ТҮРЕ		STEEL R Allim R	STEEL R ALUM R	STEELR	STEELR															
	PIPE DIAMETER (INCHES)			24			4						82	×	00	<u> </u>	102	80		50	

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L HEIG N ALCLAD ALLC OW ABLE FILL XAMPIF-12IN ALL(\square ╺╮┝ \square TABLE VALUES FOR ALUMINUM SPIRAL RIB PIPE ARE COMPUTED BASE IF ALUMINUM PIPE IS 0 THERW ISE FURNISHED AS 3004-H32 (\oint =20,000 P a. all minimum cover values shall be increased by 15 percu 7-1/2" \times 3A" X 3A" R DENOTES SPIRAL RIB PROFILE

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H34 S SH AES COM	> Z																NBMO	HAT SI	
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PSI) PSI) CEN	N I I I I I	EL AND	MIN. COVEF (INCHES 18	88	18 18	8 8	8 8	<u>8</u> 8	<u>∞ ∞ </u>	<u>8</u>	<u>18</u>	8 8	<u>20</u>	8 8	<u>8</u> 8	<u>8</u> a	<u>2 @ c</u>	2 <mark>4 8</mark>	-
BAS 000,000 PER(ЭЛС	D STEE	<u> </u>														+	++	-
151 151 151	N S.	RUGATE TS OF	S) COR. LUMINL	090"	.060	<u>075</u>	.075	<u>"105</u>			. 135		. 35	. 164					
РUТ В (В (UMI TIO	RCH) CORF HEIGH																++	-
SED SED	MIN	NE-2 HES OF	(NESS						-019	.079		-079	<u>079</u>		079 .	620°	07 <u>0</u>	<u>フ</u> 601 - 601)) =
7 E A 7 E A 7 E A	AD.	· 2 (P	. STEE														++		$\left \right $
E AF AS J INCI		E NO. (NESS ARCH A	MIN COR	.064	.064	.064	. 064	.064	°079	.079	60I -	-109		. 38	.168	02	001		
	ALIVE R AL	TABL THICK PIPE-A															++		-
RIB ALL ALL	-20 F01		SE CH IJ	2	8	20	24	29	M M M	36	38	4 4 M	0 0	47	52	55 77	29-	67 17	:
SHA SHA	TOF TOF RED	MING M TOP (ZZŽ														+	++	-
SE F JES	Y TC 7 AC Q UII	E SHO UGATE E THE	MMMIN	21	24	28	35	42	40	46	27	2 M		2	66 77	73 03	8 8	81 95 103	
ALL VAL		TABL CORR ABOV																+	
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			CHECKED REVISED		(AP	PRO	/ED)	(V) CH	MEF EN	IGINI	ÉER	La	The	elz		U	S	JL)



FORM EF3



Dietzgen N. O. 135 "Imperial"

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E AFTER HO	OLES			STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
N PROVIDED	}.		· · · · · · · · · · · ·				
			MATERIA		TIONS		
			A.A.S.T.H.O.S	SPECIFICAT	ION M 180		
PL. 1/2 × 1	2 × 1'-8'/4"	NUTS & BOLTS	A.S.T.M. DESI	GNATION A	A-36 A-307		
FIVE 3" ×	$\frac{1}{2} \times 3^{\circ}$	WASHERS GAL VANIZING	MEDIUM STEI	<u>EL</u> 3			
I" DIA. HOL MAY BE L	ES CENTERED JSED AS AN						
ALTERNAT	ſE	-WING			WING		
	END POST-	<i>\\</i>			-END POST	*	
-		<u>1'-6"</u>		/	/′−6" _ _		
				 γ			
**************************************	B.F.P.R.	<i>4</i>		EWALK— ^j	B.F.P.R. — *** —!/r		
	BARRI	ER	SIDE	WALK	AND PARA	PET	
)OVES FS	<u>T</u>	YPICAL SKEWED scale: 1/2) END DE 2" = '-0"	TAIL			
			/_"				
			- ¹ /8"'/2'	SEE LIMIT	DETAIL "B" FOR S OF GROOVE		
		GROOVE	▲ !∕8" DETAIL				
		HALF S GENERAL NO	SCALE TES				
SPECIFICA	ATIONS - GEORGIA STAI	NDARD.					
LOCATION	I - ALL END POSTS UN	NLESS NOTED ON BRIDGE	PLANS.				
CHAMFER	- CHAMFER ALL EXPO	ISED EDGES 3⁄4".					
GALVANIZ	(ING - ALL METAL PAR	TS SHALL BE GALVANIZED) AFTER FABRIC	ATION.			
PAYMENT	FOR MISCELLANEOUS HARDWARE SHALL BI	HARDWARE - COST OF $\frac{1}{2}$ 'E INCLUDED IN THE PRICES	PLATE AND MI S BID FOR CONT	SCELLANE FRACT ITE	OUS MS.		
PAYMENT	FOR THE END POST - CONCRETE AND REIN	- IF END POST IS A PORT IFORCEMENT ARE COMPUTE	TION OF THE SU ED AND INCLUDE	BSTRUCTU D IN THE	RE, END		
	IF END POST IS A F REINFORCEMENT ARE QUANTITIES.	PORTION OF THE SUPERST E COMPUTED AND INCLUDE	RUCTURE, CONCI D IN THE END S	RETE AND SPAN			
RESPONSI	IBILITY - WHEN THE BR CONTAINING THE APP	NDGE CONTRACT IS SEPAR PROACHING GUARDRAIL, TH	ATE FROM THE	CONTRAC [™] ACTOR	Г		
	SHALL ONLY BE RES	SPONSIBLE FOR THE CONS G OF THE I" DIAMETER BOL	TRUCTION OF THE	HE END CONTRACT			
	CONTAINING THE APP FOR FURNISHING AND	PROACHING GUARDRAIL SHA D INSTALLING THE SPECIAL	ALL BE RESPONS L END SHOE,PL	SIBLE ATE,			
DIMENSION	NUTS, WASHERS, AND	BOLTS. "L", "H", AND "W" AND OTHE	R DIMENSIONS, S	EE			
END POST	T - END POST TO BE	CONSTRUCTED AFTER HAN	NDRAIL IS IN PL	ACE.	` A1		
	NO HANDRAIL IS USE	ED.	MEN IS CONSTRU	NULU WHE	.1 1		
Γ	0-02 0-98	DEPARTM	IENT OF	TR	ANSPORT	ATIC	N
F	9-3(6-3(DA		STATE (DF GEO	RGIA		
ER) 3 DEPTH			STAN	NDAF	RD		
	SITION		END P	OST	AND	~	
	TRANS AWN RE	END POST GL	JARDRAIL	_ A	ACHMENT	DET	AILS
	REV.	SCALE: AS SHOWN	1			MAY	989
		ESIGNEDH.W.C. (SUBMITTE	D) Ames A. DAD & AIBPORT	DESIGN	Ø NGINEER	NUM	BER
		CHECKED H.W.C. (APPROVED))CHIEF_ENICIN	L L at	het	30	54
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CLEAR	ZONE	DI2

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			FORESLOPES			BACKSLOPES	
DESIGN SPEED	DESIGN	IV:6H	IV:5H TO	IV:3H	IV:3H	IV:5H TO	IV:6H
		OR FLATTER	IV:4H			IV∶4H	OR FLATTER
40 MPH	UNDER 750	7-10	7-10	* *	7-10	7-10	7-10
	750-1500	10-12	12-14	* *	2- 4	12-14	2- 4
	1500-6000	12-14	14-16	* *	4- 6	14-16	4- 6
LESS	OVER 6000	4- 6	16-18	* *	16-18	16-18	16-18
	UNDER 750	10-12	2- 4	* *	8-10	8-10	10-12
45-50	750-1500	14-16	16-20	* *	10-12	2- 4	14-16
M.P.H.	1500-6000	16-18	20-26	* *	2- 4	14-16	16-18
	OVER 6000	20-22	24-28	* *	14-16	18-20	20-22
	UNDER 750	12-14	4- 8	* *	8-10	10-12	10-12
55 M.P.H.	750-1500	16-18	20-24	* *	10-12	14-16	16-18
	1500-6000	20-22	24-30	* *	14-16	16-18	20-22
	OVER 6000	22-24	26-32*	* *	16-18	20-22	22-24
	UNDER 750	16-18	20-24	* *	10-12	12-14	4- 6
60 M.P.H.	750-1500	20-24	26-32*	* *	2- 4	16-18	20-22
	1500-6000	26-30	32-40*	* *	4- 8	18-22	24-26
	OVER 6000	30-32*	36-44*	* *	20-22	24-26	26-28
	UNDER 750	18-20	20-26	* *	10-12	14-16	4- 6
65-70	750-1500	24-26	28-36*	* *	12-16	18-20	20-22
M.P.H.	1500-6000	28-32*	34-42*	* *	16-20	22-24	26-28
	OVER 6000	30-34*	38-46*	* *	22-24	26-30	28-30

CLEAR ZONE DISTANCES (FT) CHART

* WHEN A SITE-SPECIFIC INVESTIGATION INDICATES A HIGH PROBABILITY OF CONTINUING CRASHES OR WHEN SUCH OCCURRENCES ARE INDICATED BY CRASH HISTORY, THE DESIGNER MAY PROVIDE CLEAR-ZONE DISTANCES GREATER THAN THE CLEAR ZONE SHOWN ABOVE. CLEAR ZONES MAY BE LIMITED TO 30 FT. FOR PRACTICALITY AND TO PROVIDE A CONSISTENT ROADWAY TEMPLATE IF PREVIOUS EXPERIENCE WITH SIMILAR PROJECTS OR DESIGNS INDICATES SATISFACTORY PERFORMANCE.

* * BECAUSE RECOVERY IS LESS LIKELY ON THE UNSHIELDED, TRAVERSABLE IV:3H FILL SLOPES, FIXED OBJECTS SHOULD NOT BE PRESENT IN THE VICINITY OF THE TOE OF THESE SLOPES. RECOVERY OF HIGH-SPEED VEHICLES THAT ENCROACH BEYOND THE EDGE OF THE SHOULDER MAY BE EXPECTED TO OCCUR BEYOND THE TOE OF SLOPE. DETERMINATION OF THE WIDTH OF THE RECOVERY AREA AT THE TOE OF SLOPE SHOULD CONSIDER RIGHT-OF-WAY AVAILABILITY, ENVIRONMENTAL CONCERNS, ECONOMIC FACTORS, SAFETY NEEDS, AND CRASH HISTORIES. ALSO, THE DISTANCE BETWEEN THE EDGE OF THE THROUGH TRAVELED LAND AND THE BEGINNING OF THE IV:3H SLOPE SHOULD INFLUENCE THE RECOVERY AREA PROVIDED AT THE TOE OF SLOPE. A IO-FT RECOVERY AREA AT THE TOE OF SLOPE SHOULD BE PROVIDED FOR ALL TRAVERSABLE, NON RECOVERABLE FILL SLOPES.

Lendards\GDQU-DSNI\GDQU-DSNI\GDQU-DSNI\GDQU/QCF\DQC.gcf.bquarles.P:\Policy&Lighting\Standards\GA_Standards

LENGTH OF GUARDRAIL ADVANCEMENT AT FIXED OBJECTS OR AT WARRANTING FILL SLOPES (TYPICAL)



L _R Rur	nout Lengt	h in feet	
VER 10000	5000-10000	1000-5000	UNDER 1000
(A.D.T.)	(A.D.T.)	(A.D.T.)	(A.D.T.)
470	430	380	330
360	330	290	250
300	250	210	200
230	190	160	150
160	130	110	100
110	90	80	70

DISTANCES

	ł	K _{cz} (Curve	E CORREC	TION FAC	TOR)	
RADIUS (FEET)			DESIGN	SPEED (M	PH)	
	40	45	50	55	65	70
2950	_	_	_	I . 2	I . 2	I . 2
2300	_	_	1.2	I . 2	I . 2	1.3
1970	_	I . 2	1.2	I . 2	1.3	1.4
1640	_	I . 2	1.2	I . 3	1.3	1.4
1475	I . 2	I . 2	1.3	I . 3	1.4	I . 5
1315	I . 2	I . 2	1.3	1.3	I . 4	
1150	I.2	I . 2	1.3	1.4	I . 5	
985	1.2	1.3	1.4	I . 5	1.5	
820	1.3	I . 3	1.4	I . 5		
660	1.3	.4	I . 5			
495	1.4	I . 5				
330	I . 5					
						<u> </u>

HORIZONTAL CURVE ADJUSTMENTS

 $CZ_{C} = (L_{C})(K_{CZ})$

Where:

 CZ_{C} = CLEAR ZONE ON OUTSIDE OF CURVATURE, FEET

L_c = CLEAR ZONES DISTANCE, FEET (SEE CHART AT LEFT) K_{CZ} = CURVE CORRECTION FACTOR

NOTE:

THE CURVE CORRECTION FACTOR IS APPLIED TO THE OUTSIDE OF CURVES ONLY. CORRECTIONS ARE TYPICALLY MADE ONLY TO CURVES LESS THAN 2,950-FT RADIUS.



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		1		SHEET	ΤΟΤΑΙ
"T" BEAM GUARDRAIL)		STATE GA.	PROJECT NUMBER	NÔ.	SHEETS
POSITION OF OFFSET BLOCK AND RAIL (SEE STD. 4270.	GENERAL NOTES:				
- ³ / ₄ " TYP.	I. SPECIFICATIONS GEORGIA STANE SUPPLEMENTS THERETO.)ARD, C	URRENT EDITION	AND	
	2. STEEL POSTS MAY BE EITHER SHAPES. STEEL OFFSET BLOCK POSTS SHALL BE SEAL WELDE BEFORE GALVANIZING.	ROLLE (S SHAI ED BET)	D OR WELDED S LL BE ROLLED.W WEEN WEB AND F	TRUCTUF /ELDED FLANGE	RAL
	3. WHERE WOOD POST OR WOOD THE WOOD SHALL BE TREATED STANDARD SPECIFICATIONS.	OFFSET) IN AC	BLOCKS ARE P CORDANCE WITH	ERMITTE GEORGIA	D,
	4. ALL BOLTS USED FOR FASTEN TO WOOD POSTS SHALL HAVE	NING TH SUFFIC	E RAIL AND OFF CIENT LENGTH TO 2 TO 3" BEYOND	SET BL() EXTEN	DCKS D AT
BLOCK	5.(a) "W" BEAM GUARDRAIL: ALL O PLASTIC BLOCKS EXCEPT FOR	FFSET (d) BE	BLOCKS SHALL I	BE 8"DE	PTH
HOLES IN BOTH FACES OF STEEL	(b) "T" BEAM GUARDRAIL: STANI DEPTH PLASTIC BLOCKS UNLE	DARD IN SS OTH	ISTALLATION WIL IERWISE APPROVE	L USE 8 Ed.	} "
FACED GUARDRAIL (OPTIONAL FOR SINGLE FACED GUARDRAIL).	(c) 13¾" DEPTH MODIFIED STEE Where Justified for More S Guardrail, TP T, Modified (L OFFS SEVERE OFFSET	ETS MAY BE SP CONDITIONS.PAY BLOCKPER L	ECIFIED ITEM IS IN.FT.	ŝ
	(d) WOOD OFFSET BLOCKS MAY LOCATION WITHIN A RUN OF G TYPES WOULD NOT PROVIDE P ENCINEER OR SHOWN IN THE F	Y BE U UARDRA PROPER	SED ONLY AT A Ail, where other fit, as determ	N ISOLA R BLOCK INED BY	TED THE
	6. POSTS WILL BE SPACED AT 6 NOTED.	санз. /-3" С.	TO C., UNLESS C	THERWIS	E
	7. ADDITIONAL LENGTH POSTS, WH 7'-6" LONG FOR "W" BEAM AND WITH HOLES DIMENSIONED FROM SHOWN.	HERE SF "T" BE M THE	PECIFIED, SHALL AM GUARDRAILS POST-TOP THE	BE 7'-0" RESPEC SAME AS	AND TIVELY, S
	8. 9'-0" POST REQUIRED IF GUARD 9. GROUT FILL SHALL BE A CON FILL THAT HAS A MAXIMUM 2 100 P.S.I. ACCORDING TO SPEC	DRAIL II TROLLE 8-DAY 2.600.	NSTALLED ON A D LOW STRENGT COMPRESSIVE ST	2:ISLOP H FLOW, FRENGTH	°E. ABLE OF
AIL POST DETAILS IN	N ASPHALT OR CONCRET	ΈΡΑ	VEMENT API	PLICAT	FIONS
LEAVE OUT (SQUARE OR ROUND) I'-3" MIN. CENTER OST IN EAVE OUT OFFSET BLOCK PLAN	ASHPALT OR CONCRETE PAVEMENT	PALT C CRETE 7" M 7" M FILL FILL TE #9)		S 8" MA	х.
		JC			
TAIL					
3I" ± I" TOP OF	DEPARTMENT O	F TF of ge	RANSPORT Iorgia	ATIC	N
STIC SET CK GROUND LINF	STA	NDA	RD		
BLOCK TO B STRIP/RIGIC N DETAILS	FOR "W" & "T	OFF "BEA	SET BLOC Am guarde	KS RAIL	
<u>.V. W-BM I</u> DED MOW STALLATIO	SCALE: AS SHOWN	ardf	AIL HEIGH	r August	2011
BF AD INS	DES. <u>G.L.O.</u> (SU <u>BMITTED)</u> DRW. G.L.O. STATE DESIGN	TAZ N POLICY	ENGINEER	NUM NUM	BER
	CHK. <u>B.R.E.</u> (APPROVED) Marcon REVIEW <u>B.A.S.</u> CHIEF	enginee f	Purelo	43	81



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	STATE	PROJECT NUMBER	SHEET	TOTAL
	GA.			SHEETS
GENERAL NOTES:				
I. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION	N, AND SUPF	PLEMENTS		
THERETO. 2. SEE GDOT QPL 64 FOR APPROVED PRODUCTS.	· · · · · · · · · · · · · · · · · · ·			
3. THIS SHEET DEPICTS THE PAY LIMITS FOR GUARDRAIL TERMINALS. TYPE 12 TERMINALS SHALL BE INSTALLED	AND TYPE ACCORDIN	12 G TO		
MANUFACTURER'S RECOMMENDATIONS. 4. W-BEAM INSTALLATIONS LESS THAN 150 FEET IN ADV	ANCE OF A	NY SHIELDED		
AN ENGERGY-ABSORBING TERMINAL SHOULD BE SELEC	TED.	IHAN ABUUI 150) FEEI,	
TIEM NO. UNITS DESCRIPTION				
64I-5015 EA GUARDRAIL TERMINAL, TP 12A - 64I-5020 EA GUARDRAIL TERMINAL, TP 12B - 64I-5025 EA GUARDRAIL TERMINAL TP 12C -	- 31", LANGE - 31", FLARE 31", FLARE	NI, ENERGY-ABSO D, ENERGY-ABSOF) NON-ENERGY-A	ORBING RBING BSORBINI	
641 JOZJ LA GUANDINAL FLIMMINAL, IT IZC	JI, I LANLL	, NON LNLKGT A		נ
50′	501			
25'				
5'-0" MIN.				
OFFSET FROM TERMINAL END				
	_OPE LATTER			
				-
	GRADED S	SHUULDEK		
				. I
				-
USEABLI	PAVED SH	IOULDER		
USEABLI	PAVED SH	IOULDER		
SHOULDE	PAVED SH	IOULDER		-
TERMINAL PAD GRADING DETAIL	PAVED SH	HOULDER		-
TERMINAL PAD GRADING DETAIL	PAVED SH	HOULDER Flow		-
TERMINAL PAD GRADING DETAIL	PAVED SH	HOULDER		-
TERMINAL PAD GRADING DETAIL	PAVED SH	HOULDER		-
TERMINAL PAD GRADING DETAIL	PAVED SH			- -
TERMINAL PAD GRADING DETAIL	PAVED SH	IOULDER	ΓΑΤΙΟ	
TERMINAL PAD GRADING DETAIL	PAVED SH	IOULDER FLOW RANSPORT ORGIA	ΓΑΤΙΟ	N
TERMINAL PAD GRADING DETAIL	paved sh TRAFFIC OF TF TE OF GE TANDA	ioulder Flow RANSPORT Orgia	ΓΑΤΙΟ	N
TERMINAL PAD GRADING DETAIL	paved sh TRAFFIC TE OF GE TANDA RAIL TE	ioulder Flow RANSPORT Orgia NRD RMINALS,	ΓΑΤΙΟ	N
TERMINAL PAD GRADING DETAIL	PAVED SH TRAFFIC OF TE TE OF GE TANDA RAIL TE 2A, I2B,	FLOW RANSPORT ORGIA RD RMINALS, AND 12C	ΓΑΤΙΟ	N
TERMINAL PAD GRADING DETAIL V TERMINAL PAD GRADING DETAIL	PAVED SH TRAFFIC OF TE TANDA RAIL TE 2A, I2B, SUARDRA	FLOW RANSPORT ORGIA ARD RMINALS, AND 12C AIL HEIGHT	ΓΑΤΙΟ	N
TERMINAL PAD GRADING DETAIL	PAVED SH TRAFFIC OF TE TANDA RAIL TE 2A, I2B, SUARDRA	FLOW RANSPORT ORGIA AND I2C AIL HEIGHT	AUGUST	N 2011
TERMINAL PAD GRADING DETAIL	PAVED SH TRAFFIC OF TE TANDA RAIL TE 2A, I2B, SUARDRA	FLOW RANSPORT ORGIA RD RMINALS, AND I2C AIL HEIGHT	AUGUS ⁻ NUME	N 2011 3ER
TERMINAL PAD GRADING DETAIL	PAVED SH TRAFFIC OF TE TANDA RAIL TE 2A, I2B, SUARDRA SUARDRA DESIGN POLIC	FLOW RANSPORT ORGIA RD RMINALS, AND 12C AIL HEIGHT	AUGUS ⁻ NUME	N N BER R

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TYPE I ANCHORAGE USABLE SIQULDER WIDTH PLUS 2' OR USABLE SIQULDER WISE SHOULDER DESIGN 'C', UNLESS OTHERWISE SPECIFIED NOTE NO.BE DESIGN 'C', UNLESS OTHERWISE SPECIFIED NOTE SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDE ENDS USABLE SIQUE Y'THE SALL PROJE ENDS USABLE SIQUE Y'THE SALL PROJE ENDS NOTE SALL PROTECTION SHALL BE REQUIRE DESIGN 'C', UNLESS OTHERWISE SPECIFIED NOTE SALL PROTECTION SHALL DER TRAFTIC FLO USABLE SIQUE Y'THE SALL PROTECTION SHALL DER TRAFTIC FLO USABLE SIQUE Y'THE SALL PR	OUS GUARD ANDARDS OR DERS OF DBJECTS.	*5'		EN. NOT
TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR WEDIANS OR FOR CONCRETE WEDIAN BARRIERS AT FIXED TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE USABLE SHOULDER WOTH PLUS 2' OR USABLE SHOULDER TYPE I ANCHORAGE TYPE I ANCHORAG	OUS GUARD ANDARDS OR DERS OF DBJECTS.	*5'		
TYPE I ANCHORAGE VIEW OBJECT FIXED OBJECT USABLE SHOLL DER WIDTH PLUS 2' OR USABLE SHOLL DER VIDTH PLUS 2' OR DESIGN "A" - CONTINU NOTE: DESIGN "A" SOF LIMITED APPLICATION. SEE SEPARATE S DETAILS FOR DOUBLE FACED GUARDRAL ON INSIDE SHOULDER WEDIANS OR FOR CONCRETE MEDIAN BARRIERS AT FIXED VIEW OBJECT VIEW OBJECT VIEW OBJECT VIEW OBJECT VIEW OBJECT VAR. VIEW OBJECT VAR. DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: OLARDRAIL PROTECTION SHALL BE REQUIRE NOTE: CLARDRAIL PROTECTION SHALL BE REQUIRE NOTE: CLARDRAIL PROTECTION SHALL BE REQUIRE NOTE: SEADARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NOTE: SEADARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NOTE: SEADARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NOTE: SEADARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NOTE: SEADARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NOTE: SLAB NISTER STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NOTE: SLAB NISTER STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NOTE: SLAB NISTER STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACING AT BRIDGE ENDS NISTER STANDARDS FOR CUARDRAIL CONNECTIONS AND POST	NO.6 OUS GUARD ANDARDS OR DERS OF DBJECTS. TRAF	*5'		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR DESIGN "A" - CONTINU NOTE: DESIGN "A" IS OF LIMITED APPLICATION. SEE SEPARATE S DESIGN "A" - CONTINU NOTE: DESIGN "A" IS OF LIMITED APPLICATION. SEE SEPARATE S DESIGN "A" - CONTINU NOTE: DESIGN "A" IS OF LIMITED APPLICATION. SEE SEPARATE S DESIGN "A" - CONTINU NOTE: DESIGN "A" IS OF LIMITED APPLICATION. SEE SEPARATE S DESIGN "CONCRETE WEDIAN BARRERS AT FIXED NOTE: DESIGN "A" IS OF LIMITED APPLICATION. SEE SEPARATE S SY LINE OFFSET DISTANCE FIMED OBJECT IN A STORE VAR. SI DISTANCE FIMED OBJECT IN A STORE SHOULDER NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NOTE: SEE SEPARATE STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NISTER SEA SEPARATE STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NISTER SEA SEPARATE STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NISTER SEA SEA SEA SPACE AT BROOK ENDS NISTER SEA SEA SPACE AT BROOK ENDS NISTER SEA SEPARATE STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BROOK ENDS NISTER SEA SEA SPACE AT BROOK ENDS NISTER SEA SEA SPACE AT SPACE AND A POST SPACE AND A P	NO.6 OUS GUARD ANDARDS OR DERS OF DBJECTS. TRAF	RAIL AT		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR DESIGN "A" - CONTINU NOTE: DESIGN "A" IS OF LIMITED APPLICATION, SEE SPRAPATE S DETAILS FOR DOUBLE FACED CUARDRAL, ON INSIDE SHOU MEDIANS OR FOR CONCRETE MEDIAN BARRIERS AT FIXED WEDIANS OR FOR CONCRETE MEDIAN BARRIERS AT FIXED WAR. WEDIANS OR FOR CONCRETE MEDIAN WORE NO,60 DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDE ENDS 20-7%, VAR. TYP. TRAFFIC FLO MISSIDE SHOULDER TYP. TYP. TRAFFIC FLO MISSIDE SLAB	NO.6 OUS GUARD ANDARDS OR DERS OF DBJECTS.	AS REQ'D.		WHERE TWO F TO FIT 3JEC
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR DESIGN "A" S OF LIMITED APPLICATION, SEE SEPARATE S DETAILS FOR DOUBLE FACED GUARDRAIL ON INSIDE SKY LINE OFFSET DISTANCE FIXED OBJECT VAR. FIXED OBJECT VAR. S FT. OR GREATER NOTE: NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS 20-7%' VAR BRIDGE APPROACH SLAB STORE AND POST SPACINGS AT BRIDGE ENDS 20-7%' VAR S OF CURVE TTBEAM TYP. TRAFFIC FLO SLAB NSIDE SHOULDER NSIDE SHOULDER	OUS GUARD ANDARDS OR DERS OF DBJECTS.	RAIL AT	FIXED OB	TO FIT
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR WEDIANS OR FOR CONCRETE MEDIAN BARRERS AT FIXED WEDIANS OR FOR CONCRETE MEDIAN BARRERS AT FIXED WISIDE SHOULDER FIXED OBJECT VAR, WAR, VAR, VAR, VAR, VAR, VAR, VAR, VAR, V	OUS GUARD ANDARDS OR DERS OF DBJECTS.	FIC FLOW	FIXED OB	3JEC
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE FIXED OBJECT VAR. FIXED OBJECT VAR. VAR. Sty LINE OFFSET DISTANCE FIXED OBJECT VAR. Sty LINE OFFSET DISTANCE INSIDE SHOULDER TISO FT. TO 325 FT. TYP. VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF ADVANCEMENT	JERS OF DBJECTS.	FIC FLOW		
TYPE I ANCHORAGE SKY LINE OFFSET DISTANCE FIXED OBJECT VAR. SKY LINE OFFSET DISTANCE INSIDE SHOULDER INSIDE SHOULDER VAR. ST. TO 325 FT.TYP. VAR.LENGTH OF ADVANCEMENT S FT. OR OREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL ON INSIDE SHOULDER NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS NOTE: SEE SEPARATE STANDARDS FOR CUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS INSIDE SLAB INSIDE SLAB	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE FIXED OBJECT VAR. FIXED OBJECT VAR. VAR. S'® ISO FT. TO 325 FT.TYP. VAR.LENGTH OF ADVANCEMENT S FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL ON INSIDE SHOULDER DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS VAR. DESIGN "C"-TBEAM VAR. SO'CURVE TYP. TRAFFIC FLO SLAB INSIDE SLAB INSIDE SLAB IN	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT VAR. S' S' VAR. S' S' S' S' S' S' S' S' S' S' S' S' S'	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. Stop ft, to 325 Ft, typ. VAR.LENGTH OF ADVANCEMENT * 5 Ft, OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS VAR. BRIDGE APPROACH SLAB VAR. SO' CURVE T'BEAM SILAB VAR. SO' CURVE T'BEAM NOTE: SUCK APPROACH SLAB VAR. SO' CURVE T'BEAM VAR. SO' CURVE	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER INSIDE SHOULDER VAR. VAR. VAR.LENGTH OF ADVANCEMENT * 5 FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS 20'-74' VAR BRIDGE APPROACH SLAB USIDE SUCH SLAB USIDE SUCH SLAB USIDE SUCH USIDE SUCH SLAB USIDE SUCH SLAB	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE FIXED OBJECT VAR. FIXED OBJECT VAR. S FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS VAR. BRIDGE APPROACH SLAB TYP. TYP. TYP. TAFFIC FLO	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. FIXED OBJECT VAR. S FT. 00 325 FT.TYP. VAR.LENGTH OF ADVANCEMENT * S FT. 00 GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C". UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS 20'-7%, VAR. BRIDGE APPROACH SLAB INSIDE S	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. FIXED OBJECT VAR. S FT. 00 GREATER WAR. VAR. VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF ADVANCEMENT VAR. S FT. 00 GREATER NOTE: GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS 20'-7¾, VAR, 50' CURVE TYP. TRAFFIC FLO SLAB INSIDE S	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE FIXED OBJECT VAR. FIXED OBJECT VAR. SFT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS 20'-7¥', VAR, 50' CURVE 'T'BEAM SLAB SLAB INSIDE S	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE FIXED OBJECT VAR. FIXED OBJECT VAR. S FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS 20'-7¾' VAR BRIDGE APPROACH SLAB COURCE SLAB SCOURCE SLAB SCOURCE SC	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER INSIDE SHOULDER FIXED OBJECT VAR. VAR. VAR. VAR. VAR. VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF ADVANCEMENT VAR.	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. S' & S FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS 20'-7%' VARBRIDGEPOST SPACINGS AT BRIDGE ENDS $20'-7%' VARBRIDGEPOST SPACINGS AT BRIDGE ENDS20'-7%' VARBRIDGEPOST SPACING AT BRIDGE POST SPACING AT $	TRAF	FIC FLOW		
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TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. S FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS VAR. BRIDGE VAR. SLAB STOP CURVE TYP. TRAFFIC FLO NSIDE S	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. S FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS USABLE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS USABLE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS USABLE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS USABLE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. FIXED OBJECT VAR. VAR. VAR. VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF AD	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER FIXED OBJECT STOR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS 20'-73' VAR, 50' CURVE TT'BEAM TYP. BRIDGE APPROACH SLAB INSIDE S	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. FIXED OBJECT VAR. FIXED OBJECT VAR. VAR. S'® TO GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS USABLE SHOULDER VAR. SO' CURVE TYP. TYP. TYP. TYP. TYP. TRAFFIC FLO INSIDE SLAB INSIDE SLAB INS	TRAF	FIC FLOW		
TYPE I ANCHORAGE USABLE SHOULDER WIDTH PLUS 2' OR SKY LINE OFFSET DISTANCE INSIDE SHOULDER INSIDE SHOULDER FIXED OBJECT VAR. FIXED OBJECT VAR. FIXED OBJECT VAR. VAR. VAR. VAR. VAR. VAR. VAR. VAR.LENGTH OF ADVANCEMENT VAR.LENGTH OF ADVANCEMENT VAR. VAR.SCONCULUESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS VAR. VAR.SCONCULUES VAR.SCONCULUE VAR.S	TRAF	FIC FLOW		
Sky Line OFFSET DISTANCE Sky Line OFFSET DISTANCE INSIDE SHOULDER INSIDE SHOULDER INSIDE SHOULDER FIXED OBJECT VAR. ISO FT. TO 325 FT.TYP. VAR. VAR.LENGTH OF ADVANCEMENT		FIC FLOW		
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FIXED OBJECT FIXED OBJECT VAR. VAR. VAR. FIXED OBJECT VAR. FIXED OBJECT FIXED OBJE				
<pre>FIXED OBJECT</pre>			MEDIAN	
* 5 FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS $\frac{20'-7\frac{3}{4}}{T'BEAM} + \frac{50'CURVE}{TYP} + \frac{1}{TYP} + \frac{1}{T'BEAM} + \frac{1}{TYP} + \frac{1}{T'BEAM} + \frac{1}{TYP} + \frac{1}{T'T'BEAM} + \frac{1}{TYP} + \frac{1}{T'T'BEAM} + \frac{1}{TYP} + \frac{1}{T'T'BEAM} + \frac{1}{T'T'P} + $	PE 12A, 12B, OR 12C	_ \		
* 5 FT. OR GREATER (NOTE NO.6) DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED. NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS VAR, 50' CURVE (T'BEAM (T'BEAM (T'BEAM (T'BEAM (T'BEAM (T'BEAM (T'BEAM (T'BEAM (NOTE: SLAB (NO	TERMINAL	-		OPES I
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DESIGN "C"-GUARDRAIL ON INSIDE SHOULDER NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED.				
NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRE DESIGN "C", UNLESS OTHERWISE SPECIFIED.	AT FIXED	OBJECTS	S	$\overline{\ }$
DESIGN "C", UNLESS OTHERWISE SPECIFIED.	ON BOTH SIDE	S OF OBJEC	T FOR	
NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS				١
NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS				
AND POST SPACINGS AT BRIDGE ENDS				
20'-7¾" VAR. 50' CURVE 'T'BEAM TYP. BRIDGE APPROACH SLAB INSIDE S				
20'-7% VAR. 50' CURVE 'T'BEAM TYP. BRIDGE APPROACH SLAB INSIDE S			TYPE 12	2A, I2B,
BRIDGE APPROACH SLAB INSIDE S	"L"		TE	FKWINAL
SLAB	EDGE (OF		
	TRAVE	l lane 🔪		
	OULDER		•	
		*:	*	-
IERNATE: MEDIAN C		b	"G"	
JARDRAIL MAY BE SET	,	1 1 1		T
ED THIS SIDE			2'MIN	1
APPROACH INSIDE SHOULDER				
BRIDGE SLAB EDGE OF				
VARY AS NEFDED	RAVEL LANE 🔍 🗸		TYPE 12A, 12B. OR	120
8'-I¾" '	RAVEL LANE		TERMINAL	_~
	RAVEL LANE			
	RAVEL LANE			ΔΝΙ
DESIGN DEGUARDRAIL AT E Design "D"is limited for lise where the a	RAVEL LANE			AIN
FLUSH (SLOPES NOT STEEPER THAN 20:1) AN	RAVEL LANE	S IN NARF bridge approa	CHES IS ALMOST	T
CUMULTIUNS, SEE STD. 4387 OR CONSTRUCTIO	RAVEL LANE	5 IN NARF bridge approa than 38 ft.in	CHES IS ALMOST WIDTH FOR OTHE	T ER
	RAVEL LANE RIDGE ENDS ASSED MEDIAN AT MEDIAN IS LESS T DETAILS.	5 IN NARF bridge approa 'han 38 ft.in	CHES IS ALMOST WIDTH FOR OTHE	T ER







	STATE PROJECT NUMBER SHEET NO. S	FOTAL HEETS
	GA.	
TYPE I	2A, I2B, OR	
LENGTH OF ADVANCEMENT-100' - 225' TYP. SEE GEN. NOTE #9	SEE DETAIL	
"S"		
F - EDGE OF ROADWAY PAV'MT		
-SHOULDER-	, , , / /	
NOTE: GUARDRAIL TO BE LOC	ATED ON BOTH SIDES	
OF ROAD IF CONDITION:	S WARRANI.	
GENERAL NOTES:		
I. GUARDRAIL, ITS FITTINGS, PARTS, ETC. ARE TO GEORGIA STANDARD SPECIFICATIONS AND/C) BE IN ACCORDANCE WITH R SPECIAL PROVISIONS.	
2. FOR DETAILS OF BEAM TYPE GUARDRAIL, AC OFFSET BLOCKS, GUARDRAIL ANCHORAGE T' 12B, AND 12C, & BRIDGE END CONNECTION D	CESSORIES, GUARDRAIL POST, YPE I, TERMINALS TYPE I2A, ETAILS, SEE APPLICABLE	
GEORGIA STANDARD PLANS AND/OR CONST	RUCTION DETAILS.	
4. POST SPACING SHALL BE 6'3" C. TO C., UNL	ESS OTHERWISE NOTED.	
5. TYPE 12A, 12B, AND 12C TERMINALS SHOULD & FLATTER, WHERE NORMAL SLOPE IS STEEP	BE TERMINATED ON SLOPES IO:IOR PER.A IO:IOR FLATTER SLOPE SHOULD	
BE CONSTRUCTED.		
6.GUARDRAIL SHALL NOT BE ERECTED ON SLO EXCEPT FOR THE PORTION OF PRECURVED BACK OF THE SHOULDER AS SHOWN IN DE SLOPES OR EXCEPT WHERE SHOWN OTHERV)PES WHICH ARE STEEPER THAN IO:I, (SHOP CURVED) SECTION THAT EXTENI TAIL "A" WHICH IS ERECTED ON NORMAL VISE IN PLANS.	DS -
7. PAY LENGTH SHALL BE MEASURED ALONG F	ACE OF GUARDRAIL.	
8.W.BEAM GUARDRAIL WILL HAVE A CONSTANT INSTALLATION EXCEPT WHERE A PORTION (DETAIL "A" EXTENDS BACK OF THE GRADED	F TOP OF RAIL HT.OF 31" THROUGHOUT OF THE PRECURVED SECTION SHOWN IN SHOULDER.	- J
9. GUARDRAIL WILL EXTEND PAST HAZARD ON TO PREVENT VECHICLE PENETRATION BEHIN THE TYPICAL LENGTHS OF ADVANCEMENT S WHEN SHOWN IN THE PLANS, OR WHERE DIR SPEED DESIGN, ROADSIDE GEOMETRY, SIZE (IF FURTHER INFORMATION IS DESIRED; SEE	BOTH THE APPROACH & TRAILING END ND THE RAIL INTO THE HAZARDOUS AR SHOWN MAY BE INCREASED OR DECREA RECTED BY THE ENGINEER BECAUSE OF OF HAZARD, OR OTHER CONDITIONS. THE AASHTO "ROADSIDE DESIGN GUIDE"	S EA. SED
SPECIAL NOTE:		
LOCATION AND QUANTITIES GIVEN IN THE TERMINALS, AND ANCHORAGES ARE ESTIM COMPUTATIONS. A FINAL DETERMINATION QUANTITIES OF GUARDRAIL, TERMINALS, AN MADE BY THE ENGINEER OR A REPRESEN OF TRAFFIC OPERATIONS AFTER CONSTRU	PLANS FOR GUARDRAIL, ATES MADE FROM OFFICE AS TO LOCATIONS AND ND ANCHORAGES WILL BE TATIVE FROM THE OFFICE JCTION OF ROADWAY.	
† SEE GA STANDARD 4384 FOR OFFSETS FOR TYPE 12A, 12B, AND 12C TERMINALS	S AND FLARE RATES	
	OF TRANSPORTATION	
LYUND -LINE 15 C	TE OF GEORGIA TANDARD	
	LOCATION DETAILS	
Image: Second	WITH SHOULDERS	
	TO THE ROADWAY)	
Image: The state Image: The state Image: The state Image: The state	AUGUST :	2011
HE HY- TES DES. G.L.O. (SU <u>BMITTED)</u> DRW. <u>G.L.O.</u> CHK. <u>B.R.E.</u> (APPROVED)	E DESIGN POLICY ENGINEER Moret B Parkle 438	R 8

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OPTION	BARRIER DELINEATIONS	, OFFSETS, & FLARE RATES
	EDGE OF PAVEN	IENT
– – – – – 150′ MII	€- N. TAPER 200' MIN. BUFFER SPACING	EDGE OF TRAVEL LANE
MAX. 30	у́ МАХ. 40′ bo	LO APPROACH END (WORK AREA) TRAILING
SAME FLARE AS BARRIER (SE	N. BARRIER END OFFSET,B	TEMP. BARRIERS
■ <u>LEGEND</u> ■ - STRIPED D □ - IO"×IO" YFI	BARRIER END MINIM)RUM LOW PANFLS WITH TYPE VII	IUM LENGTH OF TAPER IUM LENGTH OF TAPER LATERAL OFFSETS(Lo) LESS THAN 2 FT. NOT PERMITTED, UNLESS APPROVED BY THE ENGINEER.
SHEETING- SECTION-N TL - MINIMUM T	- MAX. 40' SPACING-LONGITUDINAL MAX. 20' SPACING IN TAPER TAPER LENGTH OF TEMPORARY	FOR A TWO-LANE TWO-WAY ROADWAY THE LANE WIDTH(L _W) PLUS THE LATERAL OFFSET(L _O) MUST BE GREATER THAN THE MINIMUM BARRIER END OFFSET(B _O), OR THE TRAILING END SHALL BE TAPERED SAME AS APPROACH.
OF TEMPO WITH THE END IN FE	TRAVEL LANE TO THE BARRIER EET	IF L _w + L _o is less than 20 ft.for the Work Area or The trailing end, then the IO"×IO" panels shall be Reflectorized on both sides.
B _o - MINIMUM B L _o - DESIRABLE OFFSET D FROM THE	ARRIER END OFFSET DISTANCE IN FEET MINIMUM LATERAL DISTANCE F EDGE OF	MINIMUM LENGTH OF TAPER REQUIRED $b_0 = B_0 - L_0$ $T_1 = b_1 X_1 F_2$
THE TRAV THE TOE TEMPORAF	/EL LANE TO OF THE RY BARRIER POSTED SPEED ON THE	DESIRABLE FLARE MINIMUM RATE B-MINIMUM OFFSET TO
Desirable	ARRIER END O)MINUS THE E MINIMUM LATERAL 30-40 MPH	LATERAL DFFSET (FT.) Lo 2 5:1 13
OFFSET(La F _R - MINIMUM F THE TEMPC IN THE TAF	o) LARE RATE OF DRARY BARRIER PER SECTION	2 6:1 16 2 8:1 23 2 8:1 30
OPTION	MINIMUM BARRI (WITH TEMPO	ER ADVANCEMENT LENGTH RARY GUARDRAIL ANCHOR)
	GFFSET LESS MIN (B ₀) IN TA	THAN <u>BLE ABOVE</u> . <u>DURING CONSTRUCTION</u> <u>SEE GEN. NOTE 4.</u>
TEMP. GUARDRAIL	_ ANCH. (SHOWN), SEE NOTE 5.	I WORK AREA OR HAZARD)
INTERCEPT TH	E IO:I PROJECTION LINE	20 FT. FROM TRAVEL LANE, WHICHEVER IS LESS.
5 5		TEMPORARY CONCRETE BARRIER/
NOTE: PAYMENT FOR INCLUDE ALL SF NUTS, WASHERS, NECESSARY FOF REQUIRED	TEMPORARY CONCRETE BARRIER WILL PECIAL END SHOES, BOLTS, BOLT HOLES, , ADDITIONAL GUARDRAIL POSTS, ETC., R THE CONNECTIONS, AS SHOWN, WHEN	FOUR(4)- %" DIA. BOLTS IN I" DIA. HOLES FOUR(4)- SEE STD. 40IO FOR END SHOE TO RAIL CONNECTI VAD. 4((1) TYD
ALL SPECIAL EN BARRIER WITH F OF THE BOLTS	ND SHOES WILL BE CONNECTED TO CONCR FOUR 1/8" DIA.BOLTS (A.S.T.M.A-307).LOC MAY BE VARIED AT THE DIRECTION OF T	RETE ATION HE
ENGINEER. REMO BOLTS, INSTALL DATIONS, MAY E SYSTEM SHOWN	VABLE TYPE 7/8" DIA. CONCRETE ANCHOR ED ACCORDING TO MANUFACTURER'S RECO 3E USED INSTEAD OF THE BOLTS CONNECT 1. ANY BOLTS BROKEN OR IMPROPERLY	DMMEN-
7/8" THREADED R OF 7/8" BOLTS.	ODS WITH NUTS AND WASHERS MAY BE L	JSED IN LIEU
		AT LEAST A 5'-O" OFFSET IS DESIRABLE, OFFSET SHALL BE A MIN.OF 4'-3" WITH 6'-3" C.TO C.POST SPACING. WHEN OFFSET IS BETWEEN 4'-3" AND 3' MIN. POST SPACING SHALL BE 3'-11/2" C.TO C
WHERE CONDITIC	JNLY, GUARDRAIL ANCHORAGE F INLY, (SEE GENERAL NOTE 7). IN WARRANTS.	FOR 7 CONSECUTIVE SPACING IN ADVANCE OF THE BARRIER.
GUARDR/ (IF REQ'	AIL D) TEMP. CONC. BARRIER ——TRAVELWAY ——	TEMP. CONC. BARRIER TP. I ANCHORAGE (TYP.) 6'-3"
	TRAFFIC FLOW	TRAVELWAY — GUARDRAIL RECT. WASHE
	PLAN	PLAN
	ONE-WAY TRAFFIC TRAILING END	ONE-WAY TRAFFIC Approach end



GUARDRAIL CONNECTIONS & JUNCTIONS



STATE PROJECT NUMBER SHEET TOTAL NO. SHEETS
VPORARY BARRIER TRANSITION - CAST - IN - PLACE QUIRED WHERE TEMPORARY BARRIER BUTTS AGAINST PERMANENT BARRIER) LIFT HOOKS
(20' LONG. CAST IN PLACE TEMPORARY TEMPORARY TEMPORARY, BARRIER, TRANSITION BARRIER BARRIER
LIN.FT.OF TEMPORARY BARRIER
BARRIER, PAVEMENT, & PRECAST SECTIONS WITH POLYETHYLENE AS A BOND BREAKER. FORMS AGAINST PERMANENT & TEMP.BARRIER TO FORM SMOOTH TRANSITION. CRETE, A TYPE I FINISH IS SUFFICIENT. BE COMPLETED BEFORE TEMPORARY BARRIER IS EXPOSED TO ON-COMING TRAFFIC. REQ'D.AT TRAILING END OF ONEWAY TRAFFIC FLOW. PAID FOR AS TEMPORARY BARRIER. PAYMENT INCLUDES REUSE, REMOVE PORARY MEDIAN TRANSITION WILL BE PROVIDED BY THE CONTRACTOR WITH PAYMENT E BID FOR BARRIER AS SPECIFIED IN THE PLANS.
END TREATMENT FOR BARRIER TERMINAL END OFFSETS REQUIRED IN OPTION ()CAN NOT BE OBTAINED THEN, A TEMPORARY GUARDRAIL THE BARRIER END WILL BE REQUIRED AS PER OPTION (). IF INSTALLATION OF GUARDRAIL OT PRACTICAL DUE TO LOCAL CONDITIONS, A TEMPORARY PORTABLE IMPACT ATTENUATOR O AT THE BARRIER END AS PER OPTION ().
FIRST OPTION, MINIMUM OFFSET IS OBTAINED. SECOND OPTION, TEMPORARY GUARDRAIL ANCHORAGE, AS SPECIFIED.
3) = THIRD OPTION, PORTABLE ATTENUATOR.
$\frac{4}{5}$ = fourth option, terminate with a cast-in-place transition. $\frac{5}{5}$ = fifth option, connect to guardrail.
GENERAL NOTES: I. BARRIERS SHALL BE PLACED SUCH THAT OPENINGS BETWEEN INDIVIDUAL SECTIONS SHALL BE CONNECTED AS REQUIRED BY GA. STANDARD 4961 AND/OR MANUFACTURERS RECOMMENDATIONS. 2. THE BARRER IS NOT TO BE CONNECTED TO THE BRIDGE DECK BY CONNECTING PINS OR REBAR UNLESS AN APPROVED METHOD FOR CONNECTING PINS OR REBAR UNLESS AN APPROVED METHOD FOR CONNECTION IS REQUIRED. J. PRECAST BARRIER SECTIONS SHALL CONFORM TO THE DIMENSIONAL REQUIREMENTS IN GA. STANDARD 4961 AND/OR MANUFACTURERS RECOMMENDATIONS. YL-RECK 4. TRAFFIC CONITIOL NOT SHOTING FSTANDARDS, CONSTRUCTION DETAILS AND/OR PLAN SHEETS. DRUMS, ETC. SHOWN FOR OPTION() SHALL BE APPLICABLE FOR THE OTHER OPTIONS AS WELL. DRUMS SHALL BE PROVIDED IN ADVANCE OF TEMPORARY BARRIERS INSTALLATION AND SHALL BE IN PLACE BEFORE THE BARRIER IS INSTALLED AND REMOVED AFTER THE BARRIER IS REMOVED. MAY OR 5. WHERE TEMPORARY GUARDRAIL ANCHORAGE IS SPECIFIED, THE FIRST BREAKAWAY SHALL BE 37'-6''MINIMUM IN ADVANCE OF BEGINNING THE TEMPORARY BARRIER INSTALLATION. 6. PAYMENT FOR TEMORARY GUARDRAIL ANCHORS INCLUDES END SHOE, CONNECTING BOLTS, NUTS AND WASHERS, ADDITIONAL POSTS AND OFFSETS BLOCKS, 25 FT. ADDITIONAL 'W''-BEAM WITH THE DOUBLE NESTED SECTION PLUS STANDARD ANCHORAGE COMPONENTS. (TOTAL LENGTH-62'-6'''-6''MINN. 7. UNACCEPTABLE OR NON-STANDARD END TREATMENT WILL NOT BE LEFT IN PLACE AFTER REMOVAL OF THE TEMPORARY BARRIER, ALL GUARDRAIL AND ALL ANCHORAGES LEFT IN PLACE WILL BE TREATED AS NECESSARY TO CONFORM WITH CURRENT STANDARDS IMMEDIATELY AFTER REMOVAL OF THE
BARRIER SHOWN D. DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
R, EE R, EE
Image: Sign of the state of

PRECAST





NOTE: BARRIER SECTIONS SHALL BE CONNECTED TOGETHER WITH THE $I^{1}/_{4}$ " DIA. A-307 DOUBLE HEX CONNECTION BOLT. THE BOTTOM NUT & WASHER SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE BARRIER INSTALLATION.











CONCRETE BARRIER DETAILS



END ELEVATION



PIN CONNECTION

* AN ALTERNATE CONNECTING PIN WITH A FUSED NUT ON THE TOP THREADED PORTION AND NUT AND WASHER AS SPECIFIED ON THE BOTTOM MAY ALSO BE USED.



	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	GA.			
-				

GENERAL NOTES:

I-MATERIALS: CLASS 'A' CONCRETE AND 40 STEEL. 2-SEE GA. SPECIFICATIONS FOR BASIS OF PAYMENT AND METHOD NO.__. 3-REINFORCEMENT, HAVING AN AREA AT LEAST EQUAL TO REBARS SHOWN, May be used as an alternate.

4-BARRIERS SHALL BE PLACED SUCH THAT OPENINGS BETWEEN INDIVIDUAL SECTIONS SHALL BE KEPT TO A MAXIMUM.

9-8-06	5-2-01	5-10-96	DAIE	DEPARTMENT OF TRANSPOR	TATION
REV. CONNECTION WASHER AND REV. GEN. NOTE NO. 4.	REV. REBAR & PIN CONN.	COTTER PIN REQUIREMENT	REVISION	STANDARD DETAILS OF PRECAST TEMPORARY BARRIERS	AUG., 1995
C.L.O.		R.M.U.	ВΥ	DES (SUBMITTED) But A Store DRW STATE ROAD & AIRPORT DESIGN ENGR. TRA (APPROVED) OIL MULLING CHK CHIEF ENGINEER	NUMBER 4961

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	STATE	PROJECT NUMBE	R SHEET	TOTAL SHEETS
	GA.			
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TC TC METRIC	ANDA	ARD	C	
HINDER SON	UF Ain A	MAKKER ND state	2	
RIGHT OF	WAY	MARKERS		
REDRA GA. SI CA. SI CA. SI CA. SI CA. SI ADD G ADD G		REV.& RE	DR. DEC	., 1981
OLINIA DES (SUBMITTED)	& AIRPOR	T DESIGN ENGINEER		BER
الله المعالية المحالية ال محالية المحالية المح المحالية المحالية	CHIEF ENGI	NEER U	30	00



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					STATE	PROJECT NUMBER	SHEET TOTAL NO. SHEETS
					GA.		
		OU A	NTITIES &	REINFORCEMEN	t for typi	CAL SLAB SIZE	S * *
2			SQ. YDS. OF	BOTTOM MA	AT REINF.	TOP MAT	REINF.
ERAL	BW	"G" (= BW + ('-6")	APPR. SLAB = <u>(G+1')x 3(</u> 9	29'-8" LONG *7 LONGIT. BARS) -NUMBER- (= 1.5G + 1.75)	21 - * 5 TRAN. BARS -LENGTH- (= G + 6*)	29'-6" LONG *5 LONGIT. BARS - NUMBER- = <u>12</u> (G+0.5)+1	21 - * 5 TRAN. BARS - LENGTH- (= G + 6*)
	28'-0"	. 29'-6"	101.67		30′-0″	20	30'-0"
	30'-0"	31'-6"	108.33		32′-0″	22	32'-0"
	32'-0"	33'-6"	115.00		34'-0"	23	34'-0"
	34'-0"	35'-6"	121.67		36′-0″	24	36′-0″
_	36'-0"	37'-6"	128.33	 58	38′-0″	25	38′-0″
"A")	38'-0"	39'-6"	135.00		40′-0″	27	40′-0″
	40'-0"	41'-6"	141.67		42′-0″	28	42'-0"
	42'-0"	43'-6"	148.33	. 67	44′-0″	29	44′-0″
	44'-0"	45'-6"	155.00	. 70	46′-0″	30	46′-0″
	46'-0"	47'-6"	161.67	73	48′-0″	32	48′-0″
	48'-0"	49'-6"	168.33	. 76	50′-0″	33	50′-0″
	50′-0″	51'-6"	175.00		52′-0″	34	52'-0"
	52'-0"	53'-6"	181.67	. 82	54′-0″	36	54′-0″
	54'-0"	55'-6"	188.33	85	56′-0″	37	56′-0″
	56′-0″	57′-6	195.00		58′-0″	38	58′-0"
	581-0"	59'-6"	201.67	91	60′-0″	39	60′-0″
	60′-0″	61'-6"	208.33	94	62'-0"	40	62'-0"

** DATA IN ABOVE TABLE ARE BASED UPON COMMON SLAB / BRIDGE WIDTHS. WHERE OTHER WIDTHS ARE ENCOUNTERED, THE FORMULAE AT COLUMN TOPS MAY BE USED IN DETERMINING ADDITIONAL DATA NEEDED.

NO. 5 SPLICE BARS NOT INCLUDED. NUMBER REQUIRED IS DOUBLE THAT FOR *7 LONGITUDINAL BARS SHOWN ABOVE. SEE NO.5 TOP MAT BAR BENDING DETAIL BELOW.

GENERAL NOTES:

- 1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
- 2. USE THIS STANDARD WHERE THE ROADWAY PAVING IS ASPHALTIC CONCRETE.
- 3. THE CONCRETE CAPS ADJACENT TO THE APPROACH SLAB WILL HAVE HOLES APPROXIMATELY 9"x9", BLOCKED OUT FOR GUARDRAIL POST INSTALLATIONS (SEE DETAIL). PAYMENT FOR APPROACH SLAB WILL INCLUDE THE ¹/₂" EXPANSION MATERIAL & CONCRETE CAPS WITH BLOCKED OUT HOLES, (SEE DETAIL AT FAR LEFT).
- 4. WIDTH OF APPROACH SLAB IS NORMALLY DETERMINED BY DISTANCE BETWEEN FACES OF BRIDGE END POSTS. DETAILS SHOWN ARE BASED UPON THE BRIDGE BARRIER FACE BEING TRANSITIONED 9" TO FACE OF END POST ON EACH SIDE. SEE BRIDGE PLANS IF BARRIER IS CONTINUED ACROSS APPROACH SLAB INSTEAD. SEE STANDARD 9017M.
- 5. MINIMUM COVER OVER TOP MAT OF REINFORCING SHALL BE 2".
- 6. WHERE APPROACH SLAB IS INTERCEPTED BY THE BRIDGE END POST. EXTERIOR BARS WILL BE SHORTENED AS NEEDED TO GIVE A 3" CLEARANCE TO STRUCTURE.
- 7. PAY AREA FOR APPROACH SLAB SHALL BE COMPUTED AS A PRODUCT OF THE OVERALL SLAB WIDTH [(G+1')/3] TIMES THE LENGTH (30/3) WITH NO DEDUCTIONS MADE FOR AREAS OCCUPIED BY THE END POST & EXPANSION JOINTS OR BY DRAINAGE STRUCTURES, AND NO ADDITIONS MADE FOR SIDEWALKS OR OTHER ITEMS WHEN REQUIRED WITH THE APPROACH SLAB.
- 8. "CS" CONC. OR P.C. CONC. SUBBASE SHALL BE USED. CLEAR POLYETHYLENE SHEETING 8 MILS MIN. THICKNESS, WITH A 6" OVERLAP, UNIFORMLY LAID, SHALL BE REQUIRED UNDER THE APPROACH SLAB TO PREVENT BONDING. POLYETHYLENE SHEETING SHALL BE NEW, UNUSED AND FREE OF HOLES, RIPS AND TEARS. PRICE FOR SUBBASE SHALL BE INCLUDED IN OVERALL PRICE BID FOR APPROACH SLAB.
- 209. ALL APPROACH SLABS EXCEEDING 42' IN WIDTH WILL CONTAIN A LONGITUDINAL CONSTRUCTION JOINT. SLABS EXCEEDING 60' AND 90' IN WIDTH SHALL CONTAIN 2 AND 3 LONGITUDINAL CONSTRUCTION JOINTS RESPECTIVELY. SECTIONS BETWEEN JOINTS OR BETWEEN A JOINT AND SLAB EDGE SHALL NOT BE LESS THAN 12' OR MORE THAN 30' WIDE. REINFORCEMENT STEEL REMAINS UNCHANGED AND SHALL EXTEND THRU JOINTS. JOINTS SHALL BE LOCATED AT LANE LINES TO PROVIDE OFFSET FROM WHEELPATHS.
- 10. SEAL JOINT BETWEEN APPROACH SLAB AND END POST WITH LOW MODULUS SILICONE SEALANT. JOINT WIDTH BEHIND ENDPOST SHALL MATCH JOINT WIDTH BETWEEN APPROACH SLAB AND BRIDGE.
- 11. ASPHALTIC CONCRETE INLAY SHALL BE PAID UNDER ROADWAY PAY ITEM FOR ASPHALTIC CONCRETE.

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METHOD OF BRACING END, CO

- NOTES: FABRIC SHALL BE FASTENED TO LINE POST AT INTERVALS NOT GREATER THAN 14".
 - TENSION WIRES SHALL BE TIED TO FABRIC WITH 9 GA. WIRE OR JI GA. HOG RINGS AT 24"C, TO C. MAX, SPACINGS,
 - ♥ WHERE A PROPERTY OWNERS CHAIN LINK WIRE FENCE HAS TO BE REPLACED BY THE DEPARTMENT AS PART OF THE CONSTRUCTION PROJECT, AND THE EXISTING FENCE HADA TOP RAIL, THEN THE NEW REPLACEMENT FENCE SHALL ALSO HAVE A SIMILAR TYPE RAIL INSTEAD OF TENSION WIRES AT THE TOP OF THE FENCE.
 - HORIZONTAL BRACE RAILS & TRUSS BRACING SHALL BE REQUIRED AT ALL CORNER, END AND PULL POSTS, EXCEPT WHERE A CONTINUOUS TOP RAIL IS SPECIFIED (SEE NOTE ABOVE) WITH A FENCE 4 FT. OR LESS IN HEIGHT.



FOOTING DETAIL FOR FENCE POS

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CFOR DETAILS OF FENCE BELOW THIS LINE, SEE FENCING DETAILS TOP LEFT.

DETAILS OF BARBED WIRE WITH EXTENSION ARMS FOR CHAIN LINK WIRE FENCE

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