

REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

RELATED DRAWINGS & KEYWORDS

USE WITH 805-2XX-XX OR 805-3XX-XX SERIES ONLY
STANDARD PARTS F805-090-00

THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE.

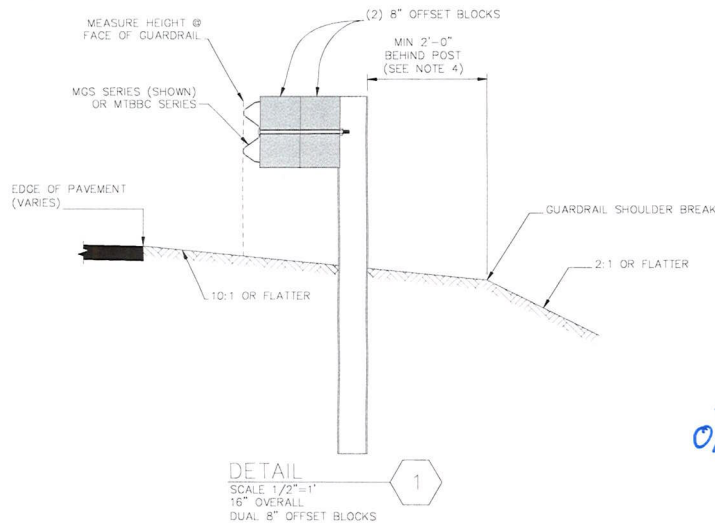
6	---	---	---
5	---	---	---
4	---	---	---
3	---	---	---
2	---	---	---
1	6/2018	DSO	MASH UPDATE
0	1/2010	DSO	NEW DRAWING
#	DATE	CHK	DESCRIPTION

STANDARD DRAWING

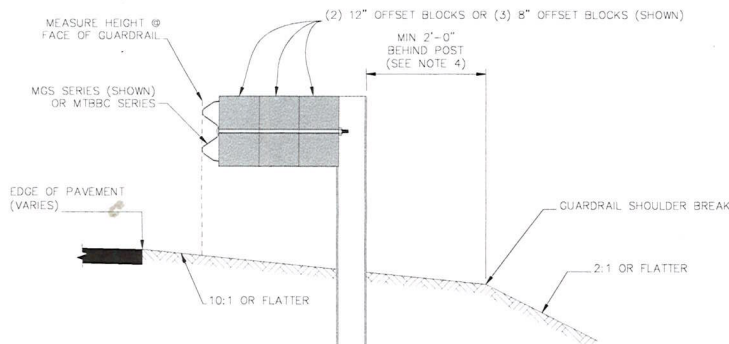
GUARDRAIL RELATED
MULTIPLE
OFFSET BLOCKS
FOR MGS AND MTBBC
SERIES DEVICES

805-545-00

EFFECTIVE LETTING DATE: JANUARY 2019



DETAIL
SCALE 1/2" = 1'
16" OVERALL
DUAL 8" OFFSET BLOCKS



DETAIL
SCALE 1/2" = 1'
24" OVERALL
DUAL 12" OR TRIPLE 8" OFFSET BLOCKS
(AT 75' SPACING WITHIN THE
MGS OR MTBBC SERIES DEVICES ONLY)

- SEE 805-001-XX FOR GENERAL NOTES. WORK APPROPRIATE SEMI-RIGID GUARDRAIL SHEETS (805-000-00 THROUGH 805-799-XX) TOGETHER.
- WHEN MULTIPLE OFFSET BLOCKS ARE REQUIRED ON MGS SERIES OR MTBBC SERIES DEVICES, USE (2X) 8" OFFSET BLOCKS [16" OVERALL] AS SHOWN IN DETAIL 1 IN ANY LOCATION WITHIN THESE DEVICES. 8" OFFSET BLOCKS ARE THE SAME PART USED FOR REPAIRS TO STANDARD STRONG-POST W-BEAM OR THRIE-BEAM BRIDGE CONNECTORS (PRE-MASH.) DO NOT USE MULTIPLE OFFSET BLOCKS WITH THE LEADING OR TRAILING END TREATMENT PAY LIMITS OR ANY OTHER PROPRIETARY DEVICE UNLESS NOTED IN THE MANUFACTURER'S INSTALLATION MANUAL.
- USE (2X) 12" OFFSET BLOCKS OR (3X) 8" OFFSET BLOCKS [24" OVERALL] ONLY AT ONE LOCATION WITHIN THE MGS SERIES OR MTBBC SERIES DEVICES. WHERE REQUIRED, INSTALL ADDITIONAL LOCATIONS OF 24" OVERALL OFFSET BLOCKS AT NO CLOSER THAN 75' SPACING.
- MAINTAIN OR EXCEED MINIMUM GUARDRAIL SHOULDER BREAK GRADING (2' BEHIND BACK OF POST) WHEN ADDITIONAL OFFSET BLOCKS ARE USED (BUILD OUT SHOULDER.)
- PLACE GUARDRAIL AT HEIGHT SHOWN FOR THE MGS OR MTBBC DEVICE (MEASURED AT FACE OF GUARDRAIL) FOR THE SYSTEM BEING INSTALLED. NOTE THAT POST WILL BE SLIGHTLY TALLER THAN TYPICAL INSTALLATION DUE TO THE ADDITIONAL OFFSET BLOCKS.
- FOR REPAIRS TO EXISTING INSTALLATIONS OF STRONG POST W-BEAM OR THRIE-BEAM BRIDGE CONNECTORS, FOLLOW THESE SPECIFICATIONS WHEN INSTALLING MULTIPLE OFFSET BLOCKS.
- NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE FOR MULTIPLE OFFSET BLOCKS.

TRIPLE BLOCKS
MAY BE USED
ONCE EVERY
50-FT

~~RECOMMEND~~
RECOMMEND CHANGING
"WILL BE" TO "MAY BE".
AS THE POST MAY BE A
BIT TALLER IN GROUND
DEPENDING ON SLOPE
OF GRADING. - IF FLAT
THE POST REMAINS THE SAME.

REFERENCES

INAP DOCUMENTS

RELATED DRAWINGS & KEYWORDS

805-325-XX MTBBC SERIES

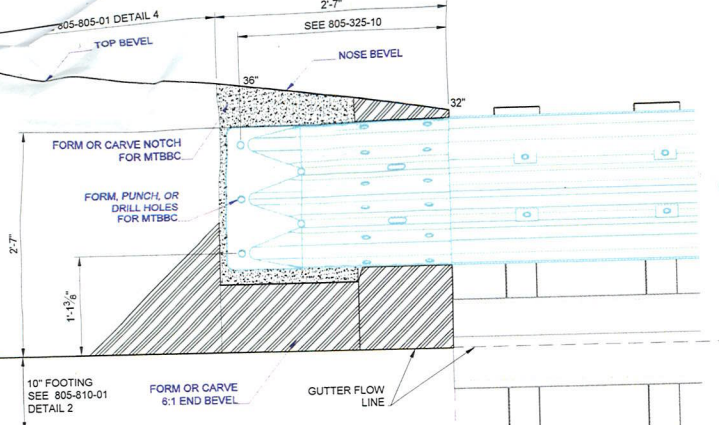
THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE.

6	--	--	--
5	--	--	--
4	--	--	--
3	--	--	--
2	--	--	--
1	6/18	DSO	MASH UPDATE
0	1/16	DSO	NEW DRAWING
#	DATE	CHK	DESCRIPTION

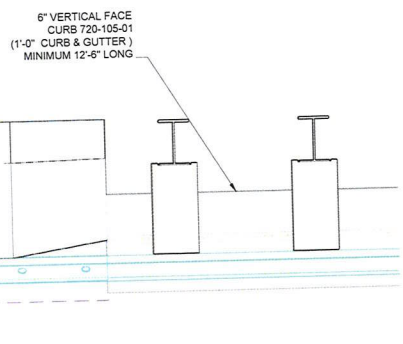
SHAPE TRANSITION
THRIE-BEAM TO
SINGLE SLOPE

805-825-00

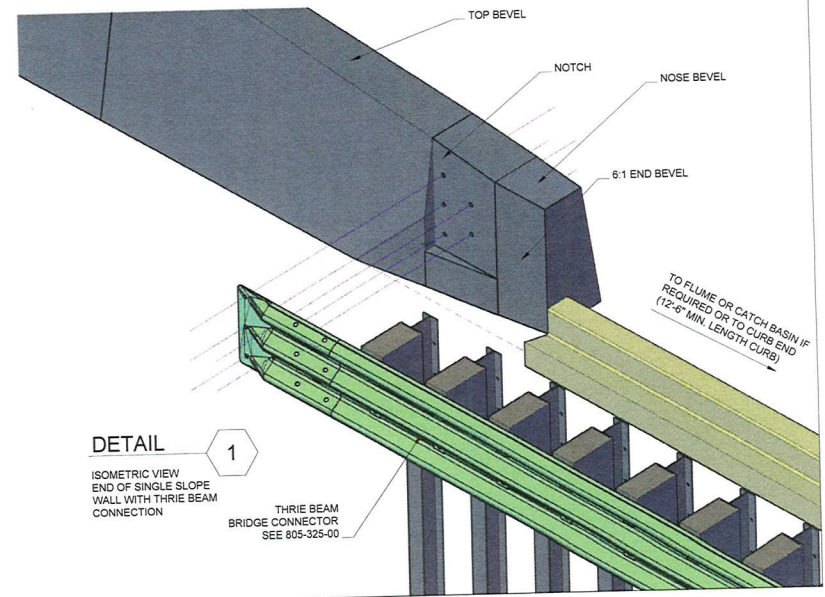
EFFECTIVE LETTING DATE | JANUARY 2019



DETAIL 2
SCALE: 3/4" = 1'-0"
ELEVATION VIEW
OF END OF SINGLE
SLOPE WALL AND THRIE
BEAM CONNECTION



DETAIL 3
SCALE: 3/4" = 1'-0"
TOP VIEW OF
END OF SINGLE
SLOPE WALL AND
THRIE BEAM CONNECTION



DETAIL 1
ISOMETRIC VIEW
END OF SINGLE SLOPE
WALL WITH THRIE BEAM
CONNECTION

NOTES:

- SEE 719-001-01 FOR GENERAL NOTES.
- WORK SHEETS 719-000-01 THROUGH XXX-XXX-XX TOGETHER.
- FORM OR CARVE NOTCH, END BEVEL AND TOP BEVEL PRIOR TO CONCRETE CURING. CONTRACTOR MAY FORM, PUNCH, OR DRILL HOLES FOR GUARDRAIL ATTACHMENT.
- WRAP CLUB AROUND GUARDRAIL POST LOCATIONS TO FORM FLUME THROAT. TERMINATE CURB AT 12'-6" FROM RIGID BARRIER WHEN NOT REQUIRED TO CONTROL SURFACE WATER.
- PAYMENT INCLUDES HAND OR FORM WORK REQUIRED TO TRANSITION NEW SINGLE SLOPE RIGID BARRIER AND ELIMINATE SNAG POINTS GREATER THAN 1/2" AND TOP PROJECTIONS GREATER THAN 4" FOR CONNECTIONS WITH OTHER SHAPE RIGID AND SEMI-RIGID BARRIERS.

PAY ITEM	DESCRIPTION	UNIT
8058860	CONC BARR SS TO OTHER SHAPE TRANSITION	LF

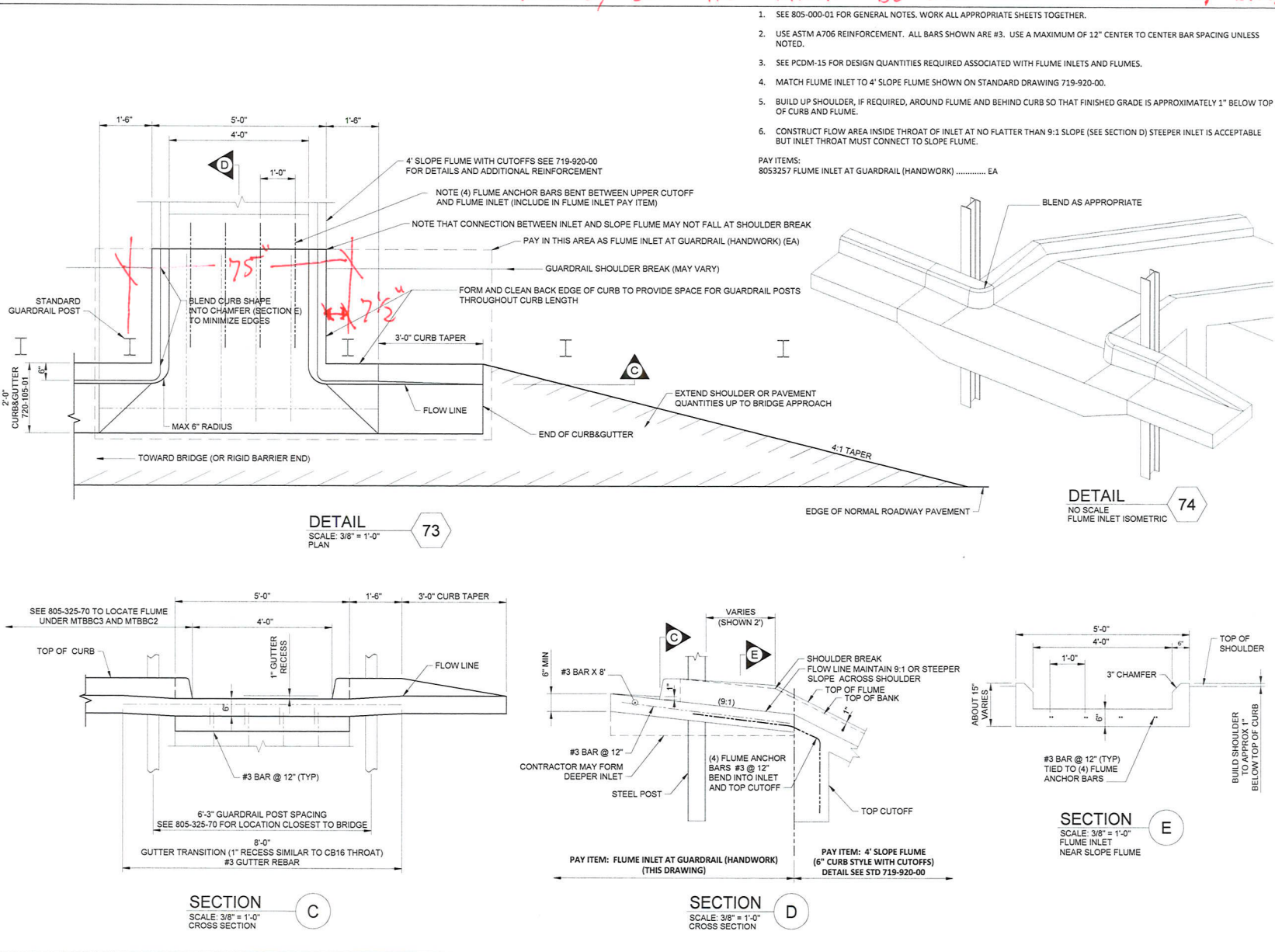
SEE STANDARDIZED
Buttress DETAILS & JOURNAL
PAPER.

75" - 60" = 15"
 15" / 2 = 7.5"
 7.5" FROM CENTER OF POST TO EDGE OF FLUME

★ ADD NOTE THAT FLUME NEEDS TO BE CENTERED BETWEEN MGS POSTS.
 - 7.5" FROM POST TO CONCRETE FLUME IS A LITTLE TIGHTER THAN THE 9" DISTANCE USED FOR GUARDRAIL LEAVE-OUTS. THIS DISTANCE HASN'T BEEN EVALUATED. THE POSTS NEARLY TOUCHED EDGE OF LEAVE-OUTS DURING TESTING. THUS, I WOULD FEEL BETTER ABOUT A 9" DISTANCE, BUT 7.5" MIGHT BE OK. POST CONTACT W/ RIGID STRUCTURE PREVENTS POST DETENTION AND NEGATIVELY AFFECTS PERFORMANCE.

REFERENCES			
NATIONAL DOCUMENTS			

SCDOT DOCUMENTS			
PCDM-02 719-920-00			
RELATED DRAWINGS & KEYWORDS			
805-325-30 805-325-50 805-325-70 719-920-00 720-105-01			
THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE.			
6	---	---	---
5	---	---	---
4	---	---	---
3	---	---	---
2	---	---	---
1	---	---	---
0	7/1/2018	DSO	NEW
#	DATE	CHK	DESCRIPTION
FLUME INLET AT GUARDRAIL (HANDWORK)			
805-325-75			
EFFECTIVE LETTING DATE JANUARY, 2019			



REFERENCES

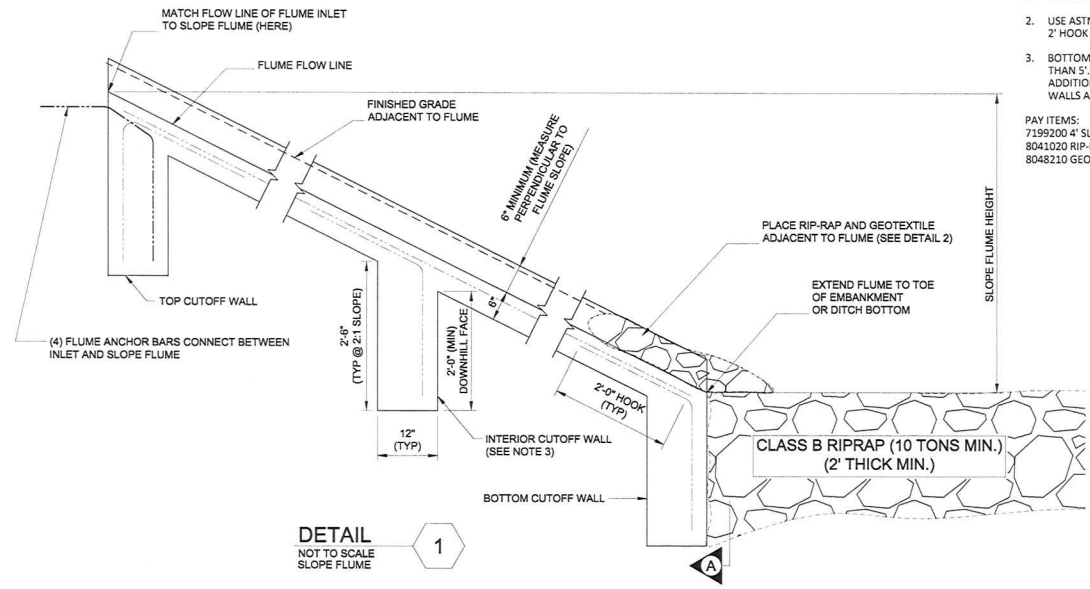
NATIONAL DOCUMENTS

 SCDOT DOCUMENTS
 PCDM-15
 RIP-RAP CLASS B (SECTION 804)
 EROSION CONTROL UNDER RIP-RAP
 CLASS 2, TYPE C
 RELATED DRAWINGS & KEYWORDS
 INLET AT GUARDRAIL:
 805-325-XX
 INLET AT MOMENT SLAB:
 805-8XX-XX (UNDER DEVELOPMENT)
 INLET SIDEWALK BYPASS
 720-XXX-XX (UNDER DEVELOPMENT)
 THIS DRAWING IS ONLY VALID FOR
 CONSTRUCTION WHEN SEALED
 AND SIGNED BY A PROFESSIONAL
 ENGINEER REGISTERED IN THE STATE
 OF SOUTH CAROLINA.
 CHECK WWW.SCDOT.ORG FOR LATEST
 UPDATE.

#	DATE	CHK	DESCRIPTION
6	---	---	---
5	---	---	---
4	---	---	---
3	---	---	---
2	---	---	---
1	---	---	---
0	---	---	---

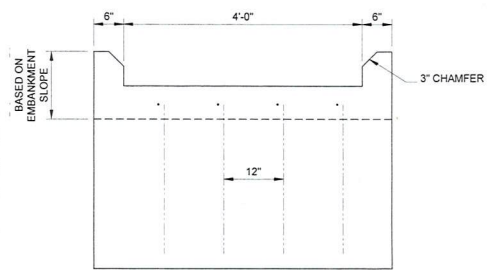
4'-0"
 SLOPE FLUME
 (6" CURB STYLE
 WITH CUTOFFS)

719-920-00
 EFFECTIVE LETTING DATE JANUARY 2019



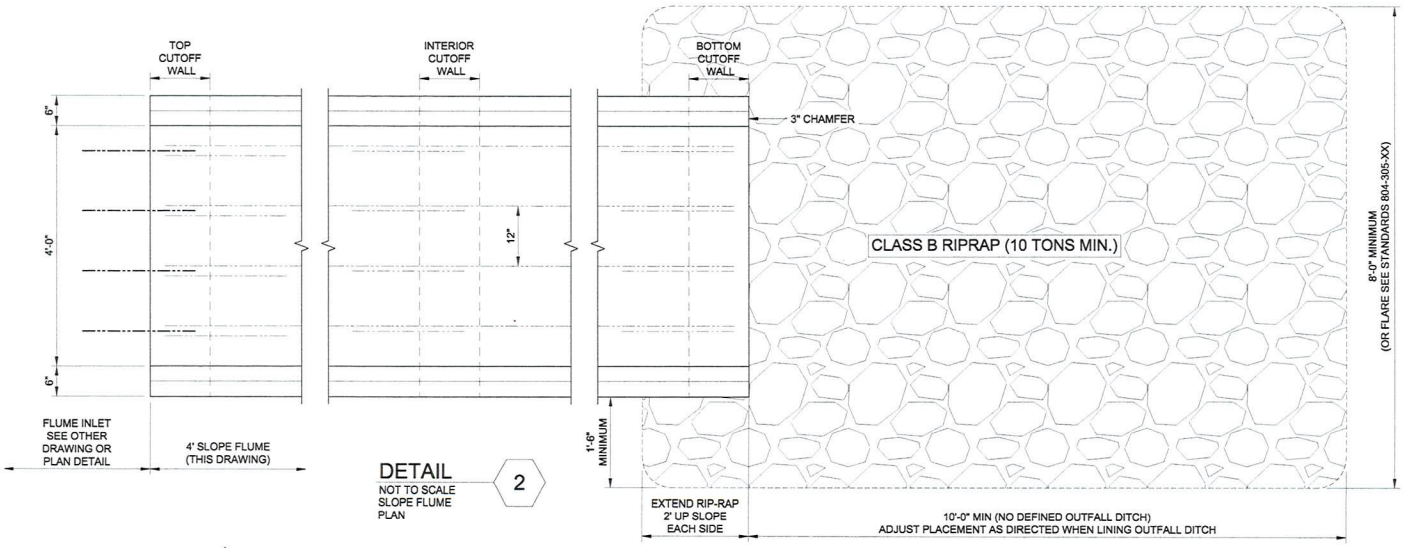
DETAIL 1
 NOT TO SCALE
 SLOPE FLUME

- USE CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.
 - USE ASTM A706 GRADE 60 REINFORCEMENT STEEL. USE NO. 3 BARS AT 12" O.C. FOR ALL REINFORCEMENT. USE 2' HOOK LENGTH ON ALL BENT BARS.
 - BOTTOM CUTOFF WALL IS REQUIRED ON ALL FLUMES. TOP CUTOFF WALL IS REQUIRED ON ALL FLUMES TALLER THAN 5'. INTERIOR CUTOFF WALLS ARE REQUIRED ON ALL FLUME HEIGHTS 15' AND TALLER, PROVIDE ADDITIONAL INTERIOR CUTOFF WALLS FOR EACH 15' OF FLUME HEIGHT. WHEN MULTIPLE INTERIOR CUTOFF WALLS ARE REQUIRED SPACE INTERIOR CUTOFF WALLS AT EQUAL SPACING ± 2'.
- PAY ITEMS:
 7199200 4' SLOPE FLUME (6" CURB STYLE WITH CUTOFFS)..... LF
 8041020 RIP-RAP (CLASS B)..... 10 TONS (MIN)
 8048210 GEOTEXTILE FOR EROSION CONTROL UNDER RIP-RAP (CLASS 2) TYPE C..... 25 SY (MIN)



****NOTE: RIPRAP NOT SHOWN FOR CLARITY****


SECTION A
 SCALE: 1/2" = 1'-0"
 CUTOFF WALL

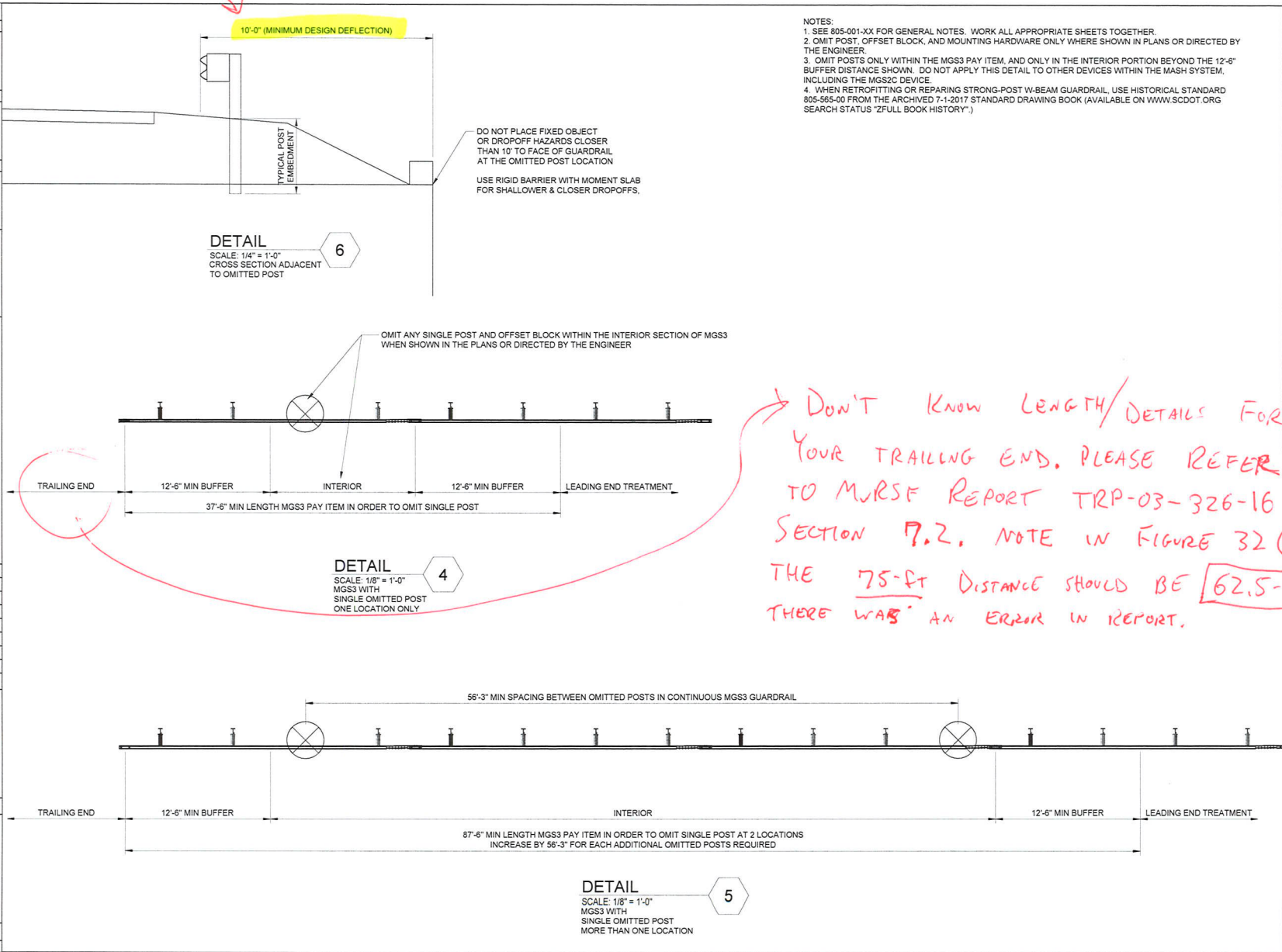


DETAIL 2
 NOT TO SCALE
 SLOPE FLUME
 PLAN

EXTEND RIP-RAP 2' UP SLOPE EACH SIDE
 10'-0" MIN (NO DEFINED OUTFALL DITCH)
 ADJUST PLACEMENT AS DIRECTED WHEN LINING OUTFALL DITCH

WORKING WIDTH FOR MGS OMITTED POST WAS ONLY 50.1 INCHES. SEE REPORT TRP-03-326-16, PAGE 38.

REFERENCES		
NATIONAL DOCUMENTS		
TEST REPORT #		
SCDOT DOCUMENTS		
REPLACES 805-565-00 LONG SPAN USE AT MGS3 GUARDRAIL ONLY		
		
RELATED DRAWINGS & KEYWORDS		
DESIGN DEFLECTION 10'		
THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE.		
6	--	--
5	--	--
4	--	--
3	--	--
2	--	--
1	--	--
0	6/18	DSO REPLACES 805-565-00
#	DATE	CHK DESCRIPTION
MGS3 GUARDRAIL WITH 1 OMITTED POST (12' CLEAR SPAN) [SINGLE OR MULTIPLE LOCATIONS]		
805-210-05		
EFFECTIVE LETTING DATE JANUARY 2019		



- NOTES:
- SEE 805-001-XX FOR GENERAL NOTES. WORK ALL APPROPRIATE SHEETS TOGETHER.
 - OMIT POST, OFFSET BLOCK, AND MOUNTING HARDWARE ONLY WHERE SHOWN IN PLANS OR DIRECTED BY THE ENGINEER.
 - OMIT POSTS ONLY WITHIN THE MGS3 PAY ITEM, AND ONLY IN THE INTERIOR PORTION BEYOND THE 12'-6" BUFFER DISTANCE SHOWN. DO NOT APPLY THIS DETAIL TO OTHER DEVICES WITHIN THE MASH SYSTEM, INCLUDING THE MGS2C DEVICE.
 - WHEN RETROFITTING OR REPAIRING STRONG-POST W-BEAM GUARDRAIL, USE HISTORICAL STANDARD 805-565-00 FROM THE ARCHIVED 7-1-2017 STANDARD DRAWING BOOK (AVAILABLE ON WWW.SCDOT.ORG SEARCH STATUS "FULL BOOK HISTORY").

Don't know length/details for your trailing end. Please refer to MURSE REPORT TRP-03-326-16 SECTION 7.2. NOTE IN FIGURE 32 (C) THE 75-ft DISTANCE SHOULD BE 62.5-ft THERE WAS AN ERROR IN REPORT.