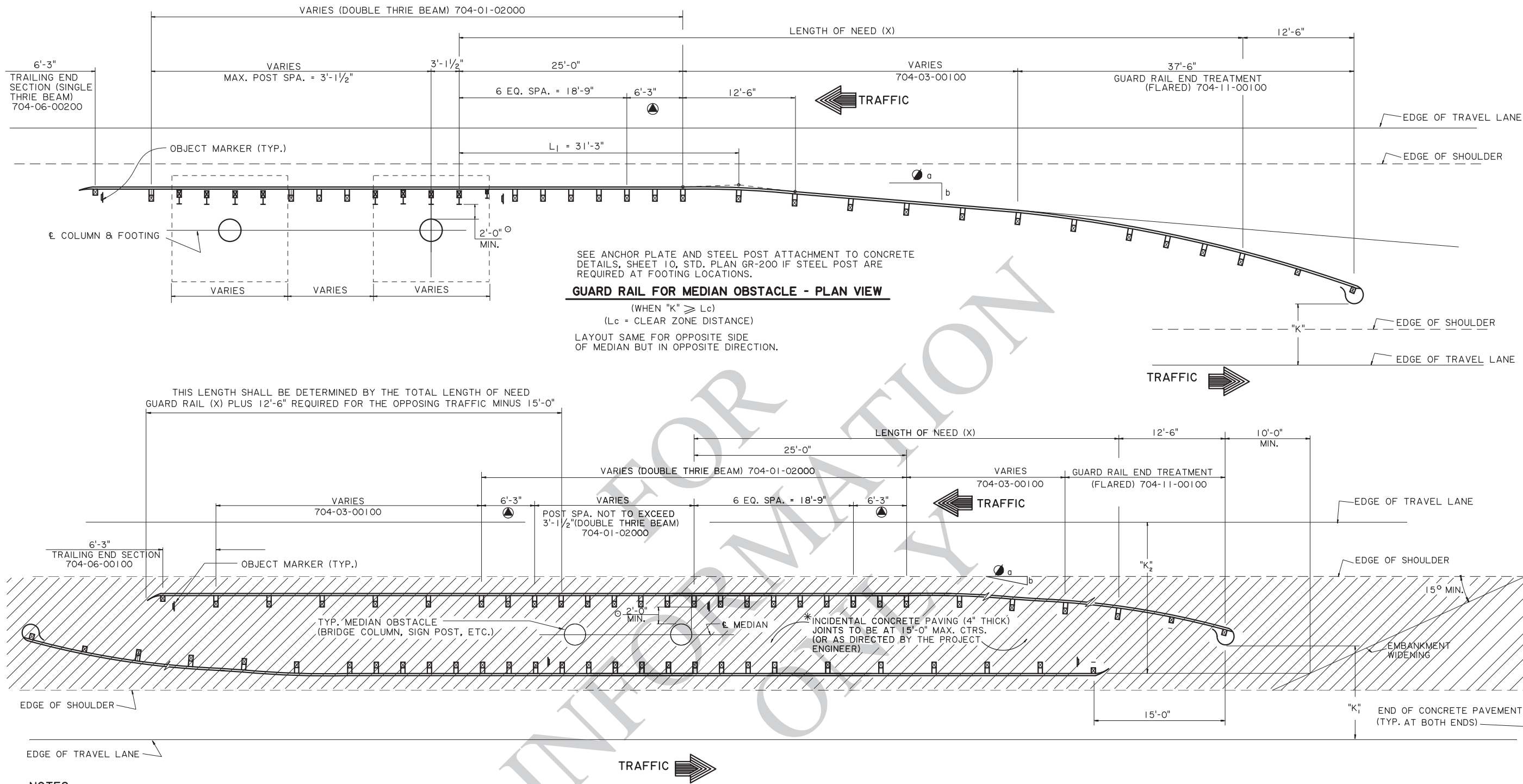




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NOTES:

THIS STANDARD SHALL BE USED IN CONJUNCTION WITH STANDARD PLAN GR-200

DESIRABLE LOCATION FOR GUARD RAIL: GUARD RAIL SHALL BE PLACED AS FAR AWAY FROM TRAFFIC AS POSSIBLE BUT NO CLOSER THAN 2'-0" FROM THE OBSTACLE AS SHOWN.

FOR CLEARANCES OF MORE THAN 5'-0" ITEM 704-01-02000 MAY BE REPLACED BY ITEM 704-01-01020 WHICH IS A SINGLE THRIE BEAM WITH 6'-3" POST SPACING.

FOR CLEAR ZONE DISTANCE (L_c) SEE TABLE 1, SHEET 2, STD. PLAN GR-200. " K ", " K_1 " AND " K_2 " ARE DISTANCES MEASURED FROM EDGE OF TRAVEL LANE TO BACK FACE OF GUARD RAIL.

* INCIDENTAL CONCRETE PAVING (4" THICK) TO BE PAID FOR UNDER ITEM 706-03-00100, PER SQ. YARD. THE INCIDENTAL CONCRETE WILL BE USED ON THE PROJECT ONLY IF A QUANTITY & PAY ITEM ARE SHOWN ON THE SUMMARY OF ESTIMATED QUANTITIES. SEE SHEET 10, GR-200 STD. PLAN FOR REQUIRED POST PAVING DETAILS.

6'-3" W BEAM/THRIE BEAM TRANSITION SECTION.

LENGTH OF NEED (X) TO BEGIN AT FIRST POST PRIOR TO OBSTACLE AS SHOWN.

○ DIMENSION MEASURED FROM BACK FACE OF GUARD RAIL POST TO FRONT FACE OF OBSTACLE.

● FLARE RATE SHALL BE IN ACCORDANCE WITH DESIGN SPEED AS SHOWN ON SHEET 2 STD. PLAN GR-200.

GUARD RAIL FOR MEDIAN OBSTACLE - PLAN VIEW

(ONLY WHEN " K " < L_c AND " K_2 " > L_c)

SEE SHT. 2 OF 8 FOR DESIRABLE LAYOUT

SHEET NUMBER	
PARISH	
CONTROL SECTION	
STATE PROJECT	
DESIGN	CHECK
DETAIL	CHECK
G. GRASS	
P. FOSSIER	
REVIEW	SERIES #
1 OF 8	
APPROVED BY CHIEF ENGINEER:	
DATE: 6/29/2026	
REVISION OR CHANGE ORDER DESCRIPTION	
BY	
DATE	
NO.	
STATE OF LOUISIANA	
CONFIDENTIAL	
HIGHWAY GUARD RAILS	
MEDIAN OBSTACLE	
2' MIN. CLEARANCE	
GR-201	
STANDARD PLAN	

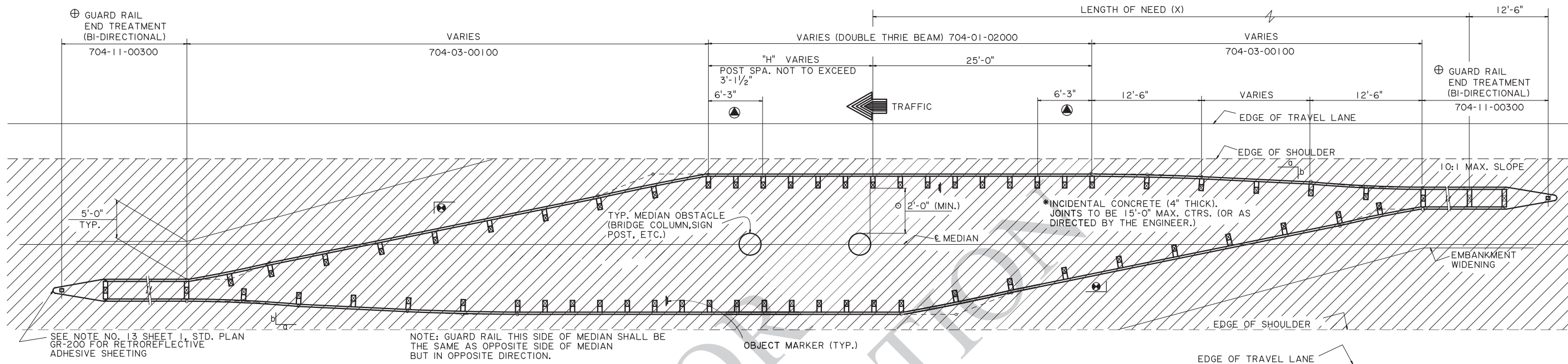




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GUARD RAIL FOR MEDIAN OBSTACLE (DESIRABLE) - PLAN VIEW
(WHEN "K" < Lc, SEE NOTES AND DETAILS SHT. 1 OF 8)

NOTES:

THIS STANDARD PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD PLAN GR-200.

DESIRABLE LOCATION FOR GUARD RAIL: GUARD RAIL SHALL BE PLACED AS FAR AWAY FROM TRAFFIC AS POSSIBLE BUT NO CLOSER THAN 2'-0" FROM THE OBSTACLE SHOWN.

FOR CLEARANCES OF MORE THAN 5'-0", ITEMS 704-01-02000 MAY BE REPLACED BY ITEM 704-01-01020 WHICH IS SINGLE THRIE BEAM WITH 6'-3" POST SPACING.

FOR CLEAR ZONE DISTANCE (Lc), SEE TABLE 1, SHEET 2, STD. PLAN GR-200

* INCIDENTAL CONCRETE PAVING (4" THICK) IS TO BE PAID FOR UNDER ITEM 706-03-00100 PER SQ. YARD. THE INCIDENTAL CONCRETE WILL BE USED ON THE PROJECT ONLY IF A QUANTITY & PAY ITEM ARE SHOWN ON THE SUMMARY OF ESTIMATED QUANTITIES. SEE SHT. 10, STD. PLAN GR-200 FOR REQUIRED POST PAVING DETAILS.

SEE NOTE 13, SHEET 1, STD. PLAN GR-200 FOR INFORMATION ON RETROREFLECTIVE ADHESIVE SHEETING FOR GUARD RAIL SYSTEMS.

"H" IS THE SHORTEST MULTIPLE OF 6'-3" WHICH EXCEEDS THE HAZARD LENGTH.

⊗ GUARD RAIL SHALL BE FLARED TO MEET THE FRONT THRIE BEAM GUARDRAIL.

⊕ SEE STANDARD ITEM, 704-11-00300 FOR GUARD RAIL END TREATMENT (BI-DIRECTIONAL).

⬤ 6'-3" W BEAM/THRIE BEAM TRANSITION SECTION.

○ DIMENSION MEASURED FROM BACK FACE OF GUARD RAIL POST TO FRONT FACE OF OBSTACLE.

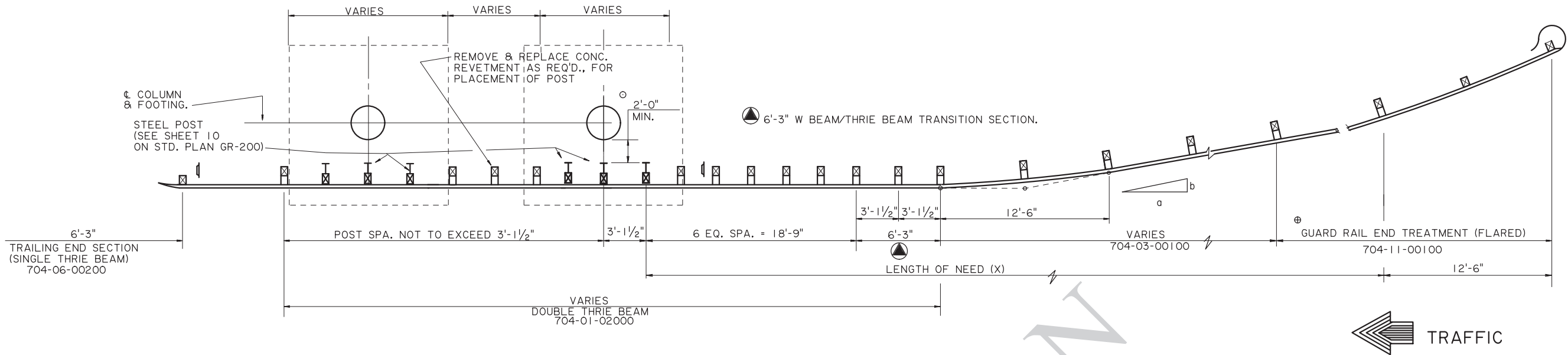
SHEET NUMBER	
PARISH	CONTROL SECTION
DESIGN CHECK	DETAIL CHECK
APPROVED BY CHIEF ENGINEER:	REVIEW
DATE: 6/29/2026	
BY	
REVISION OR CHANGE ORDER DESCRIPTION	
DATE	
NO.	
STATE OF LOUISIANA	
CONFIDENTIAL	
HIGHWAY GUARD RAILS MEDIAN OBSTACLE 2' MIN. CLEARANCE (DESIRABLE)	
GR-201	
DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT	
STANDARD PLAN	



6/23/2026

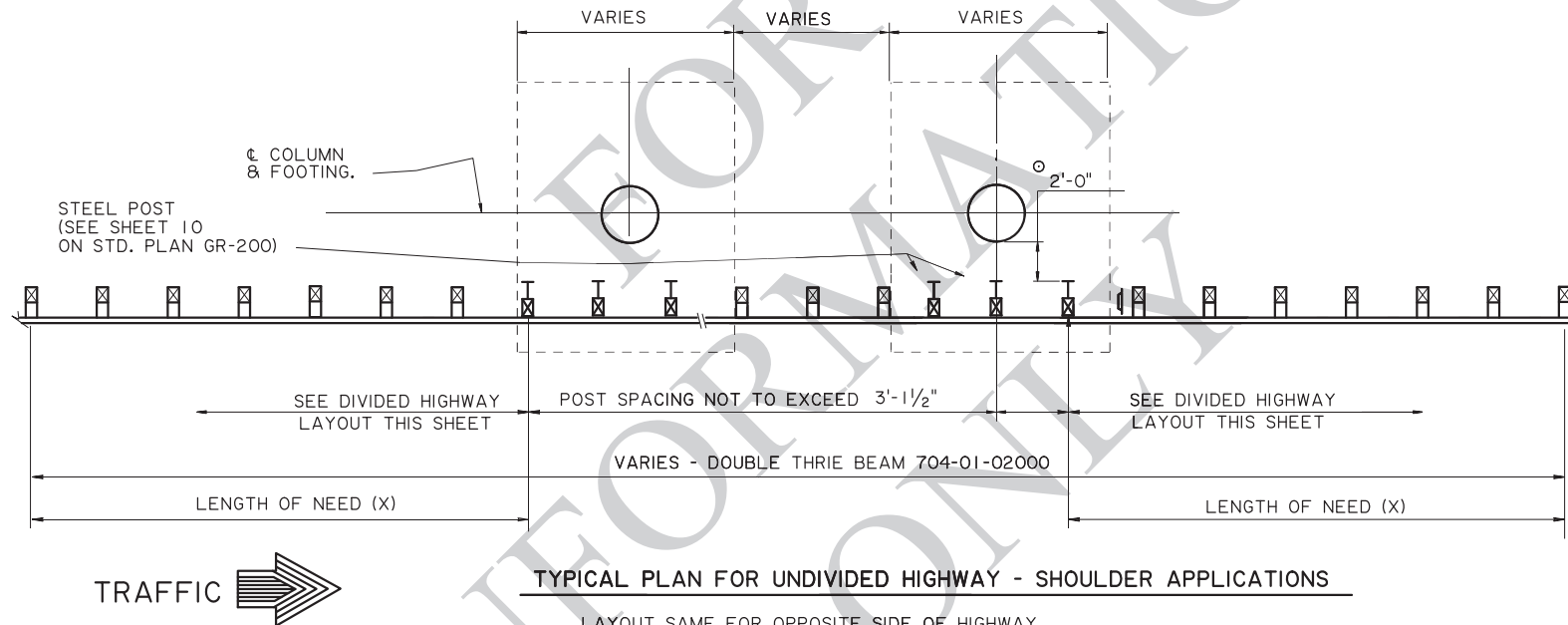
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TYPICAL PLAN FOR DIVIDED HIGHWAY - SHOULDER APPLICATIONS

LAYOUT SAME FOR OPPOSITE SIDE OF HIGHWAY
BUT IN OPPOSITE DIRECTION.



TYPICAL PLAN FOR UNDIVIDED HIGHWAY - SHOULDER APPLICATIONS

LAYOUT SAME FOR OPPOSITE SIDE OF HIGHWAY
BUT IN OPPOSITE DIRECTION.

NOTES:

THIS STANDARD PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD PLAN GR-200.
IDEAL LOCATION FOR GUARD RAIL: GUARD RAIL SHALL BE PLACED AS FAR AWAY FROM TRAFFIC AS POSSIBLE BUT NO CLOSER THAN 2'-0" FROM THE OBSTACLE AS SHOWN.

FOR CLEARANCES OF MORE THAN 5'-0" ITEMS 704-01-02000 & 704-01-01000 MAY BE REPLACED BY ITEM 704-01-01020 WHICH IS A SINGLE THRIE BEAM WITH 6'-3" POST SPACING.

FOR CLEAR ZONE DISTANCE (Lc) SEE TABLE 1, SHEET 2, STD. PLAN GR-200

SEE ANCHOR PLATE AND STEEL POST ATTACHMENT TO CONCRETE DETAILS, SHEET 10, STD. PLAN GR-200 IF STEEL POSTS ARE REQUIRED AT FOOTING LOCATIONS.

○ DIMENSION MEASURED FROM BACK FACE OF GUARD RAIL POST TO FRONT FACE OF OBSTACLE.

⊕ SEE NOTE 11, SHT. 1, GR-200 STD. PLAN

LENGTH OF NEED (X) TO BEGIN AT FIRST POST PRIOR TO THE OBSTACLE AS SHOWN.

FOR EMBANKMENT WIDENING, SEE SHT. 1 STD. PLAN GR-200.

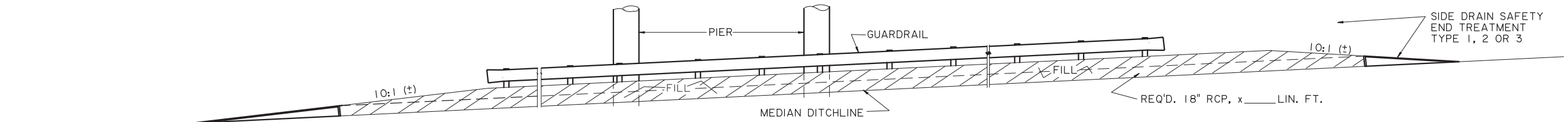
SHEET NUMBER		PARISH		CONTROL SECTION		STATE PROJECT	
DESIGN	CHECK	DETAIL	CHECK	REVIEW	SERIES	3 OF 8	
APPROVED BY CHIEF ENGINEER:				DATE: 6/29/2026			
REVISION OR CHANGE ORDER DESCRIPTION				BY			
NO.				DATE			
STATE OF LOUISIANA				CONFIDENTIAL			
HIGHWAY GUARD RAILS DIVIDED AND UNDIVIDED HIGHWAY SHOULDER APPLICATION				(2' MIN. CLEARANCE)			
GR-201				STANDARD PLAN			



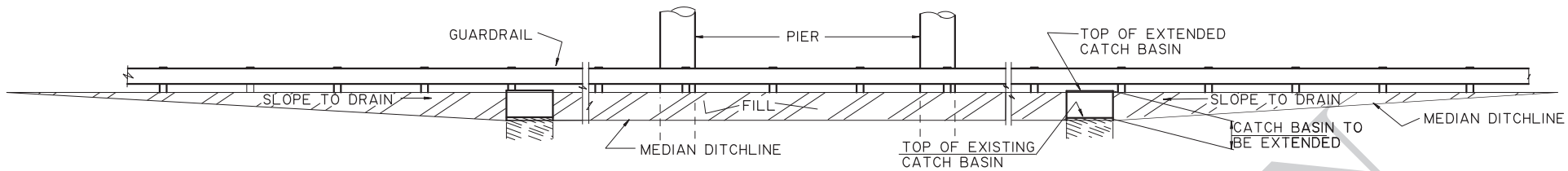
11:2'

6/23/2026

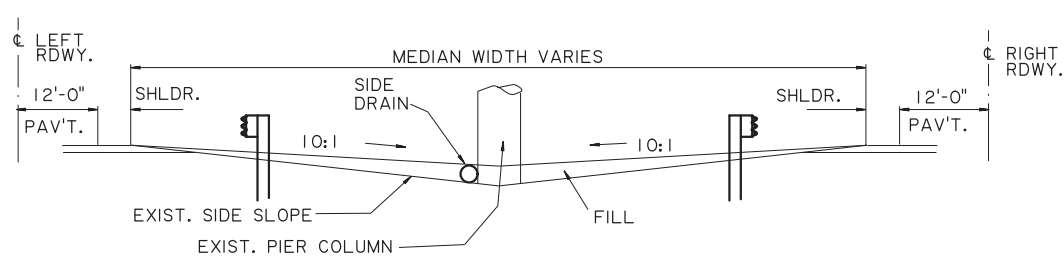
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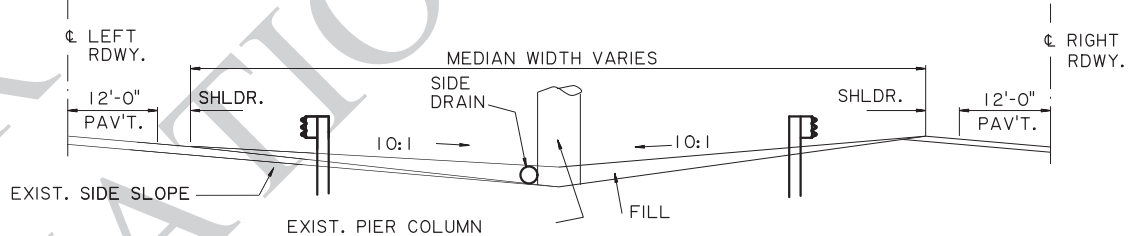
MEDIAN BANK FILL WITH DRAIN FLOW PIPE



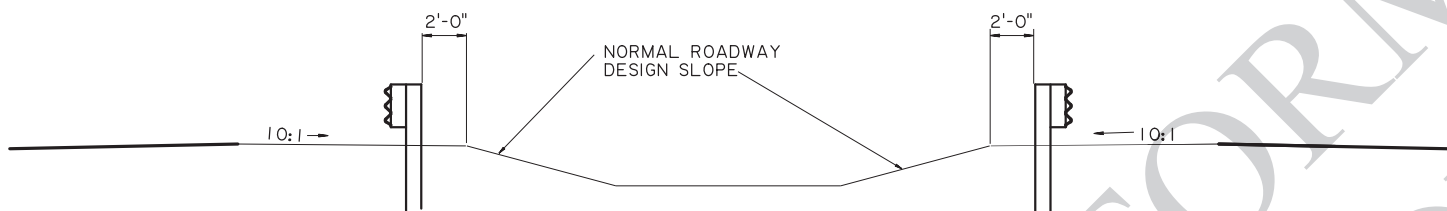
MEDIAN BANK FILL WITH CATCH BASIN



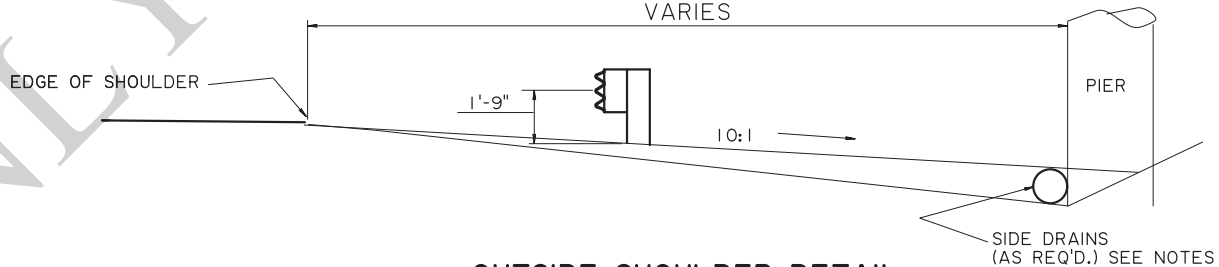
NORMAL SECTION



TYPICAL MEDIAN FILL TREATMENTS



ALTERNATE MEDIAN TREATMENT



OUTSIDE SHOULDER DETAIL

NOTES

UNDER NO CIRCUMSTANCES SHALL THE MEDIAN OR SIDE SLOPE FILL INTERFERE WITH THE DRAINAGE. IF A CATCH BASIN FALLS WITHIN THE AREA OF NEW FILL, IT SHALL BE EXTENDED TO TOP OF THE NEW FILL TO ALLOW PROPER DRAINAGE. IF NECESSARY, PIPES MAY BE USED TO ACCOMMODATE SUBSURFACE DRAINAGE.

SLOPED CATCH BASIN, EXTENDING CATCH BASIN, SIDE DRAIN PIPE AND FILL TO BE PAID FOR UNDER THEIR RESPECTIVE PAY ITEMS.

THIS STANDARD PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD PLAN GR-200.

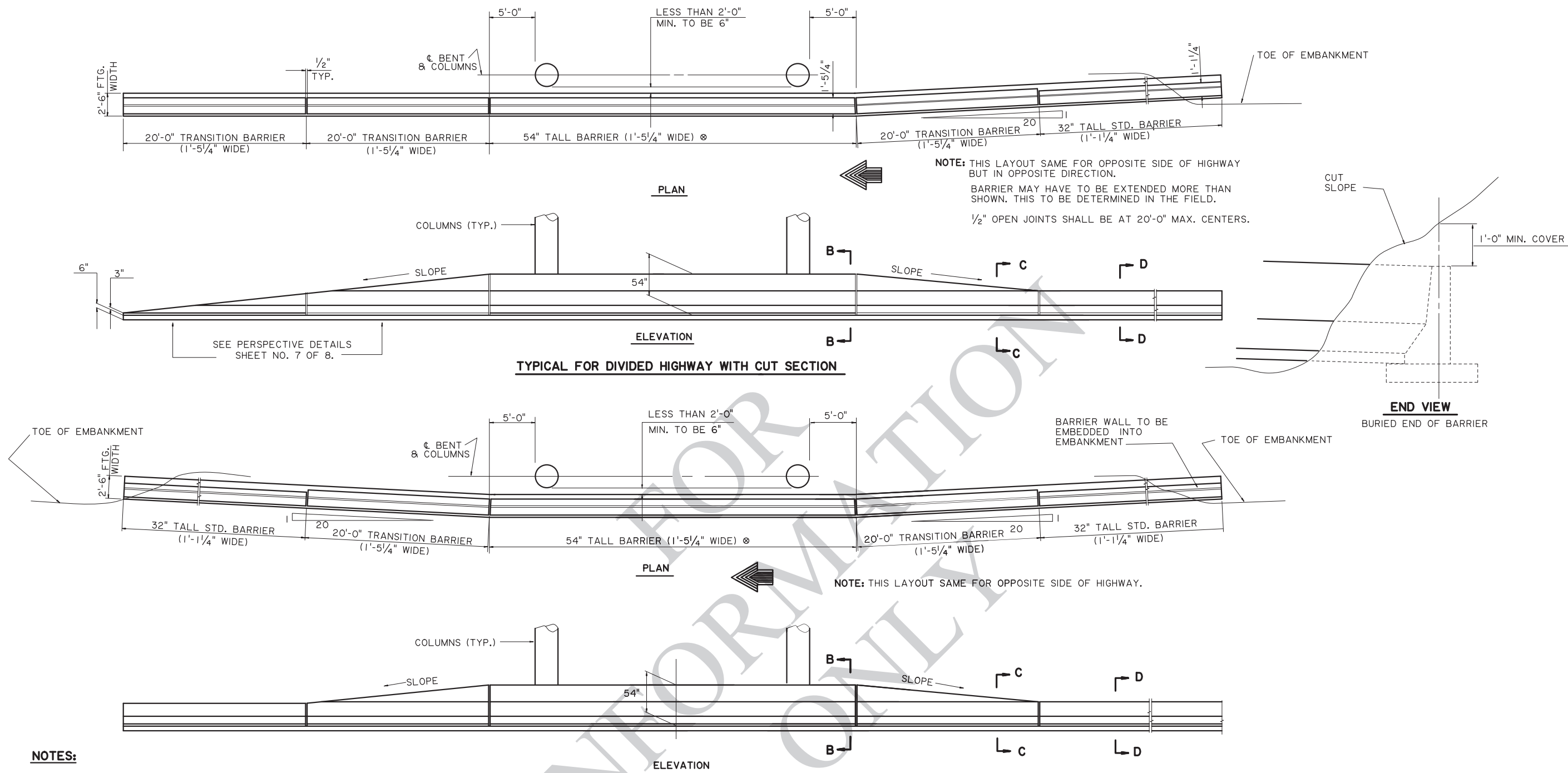
HIGHWAY GUARD RAILS DRAINAGE DETAILS																				SHEET NUMBER																													
 LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT										STANDARD PLAN										DESIGN										CHECK										PARISH									
																				DETAIL										G. GRASS										CONTROL SECTION									
																				CHECK										P. FOSSIER																			
																				REVIEW																				STATE PROJECT									
																				SERIES #										4 OF 8																			
APPROVED BY CHIEF ENGINEER:																				DATE: 6/29/2026																													
																				BY																													
																				REVISION OR CHANGE ORDER DESCRIPTION																													
																				NO.										DATE																			



6/23/2026

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NOTES:

PIER PROTECTION SYSTEM, COMPLETE IN PLACE AND ACCEPTED, WILL BE PAID FOR AT THE CONTRACT PRICE PER EACH UNDER A SPECIAL ITEM (NS-800-00120).

THIS ITEM CONSIST OF FURNISHING AND CONSTRUCTING PIER PROTECTION SYSTEM AT THE LOCATIONS SHOWN ON THE PLANS, IN ACCORDANCE WITH PLAN DETAILS, STANDARD SPECIFICATIONS, AS AMENDED BY THE PROJECT SPECIFICATIONS AND THE FOLLOWING:

PIER PROTECTION SYSTEM CONSISTS OF CONCRETE BARRIER, CONCRETE FOOTING & REMOVAL OF EXISTING REVETMENT.

WHEN GUARD RAILS ARE CONNECTED TO THE CONCRETE BARRIER, THEY SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.

FILL AND REVETMENT SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.

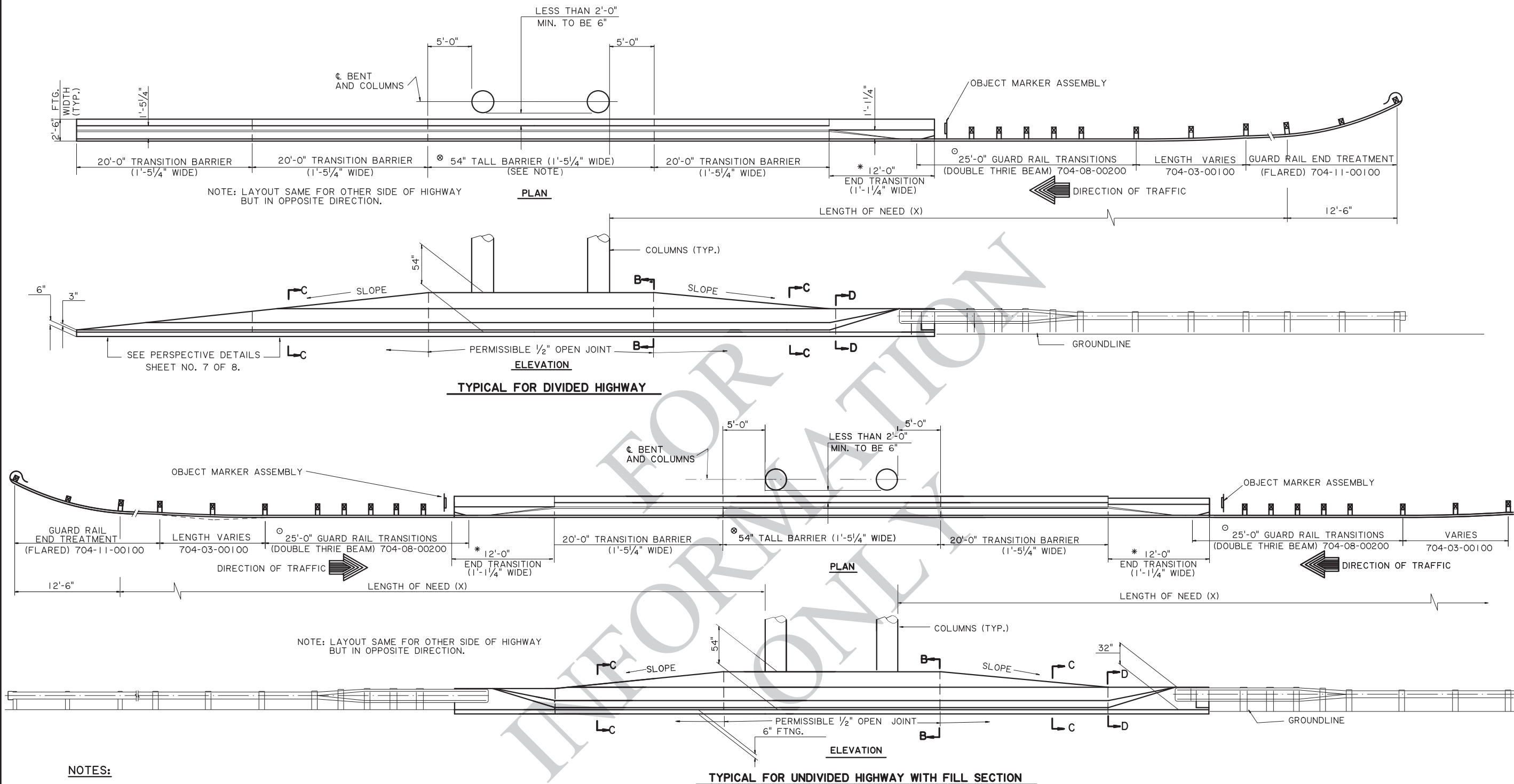
SLOPES OF 10:1 OR FLATTER SHALL BE PLACED IN FRONT OF THE BARRIER.

FOR ADDITIONAL INFORMATION, & SECTIONS B-B, C-C, E-E SEE SHEET 7 & 8 OF 8. DETAILS ON THIS SHEET ARE FOR USE ON FREEWAYS ONLY.

THIS STANDARD PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD PLAN GR-200.

⊗ LENGTH OF 54" BARRIER TO BE DETERMINED BY THE LENGTH OF THE OBJECT TO BE PROTECTED.

SHEET NUMBER		PARISH		CONTROL SECTION		STATE PROJECT	
DESIGN CHECK		G. GRASS		P. FOSSIER		SERIES # 15 OF 8	
APPROVED BY CHIEF ENGINEER:		DATE: 6/29/2026		BY		DATE	
REVISION OR CHANGE ORDER DESCRIPTION		NO.		DATE		BY	
STATE OF LOUISIANA		CONFIDENTIAL		HIGHWAY GUARD RAILS CUT SECTION (LESS THAN 2'-0" CLEARANCE)		GR-201	
DOTD		LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT		STANDARD PLAN			



⊗ LENGTH OF 54" TALL BARRIER TO BE DETERMINED BY THE LENGTH OF THE OBJECT TO BE PROTECTED. REGARDLESS OF LENGTH OF NEED (X), A MINIMUM OF 75'-0" GUARD RAIL SHALL BE INSTALLED AT THE END OF CONCRETE BARRIER. WHEN MINIMUM GUARD RAIL IS USED, SEE NOTE 2, SHT. 1 OF GR-200.

THIS STANDARD PLAN SHALL BE USED IN CONJUNCTION
WITH STANDARD PLAN GR-200.

- * FOR BARRIER REINFORCING DETAILS OF 12'-0" TRANSITION
& TAPER, SEE STANDARD DETAIL BR-01
- © 10' CURB REQUIRED, SEE SHT. 3, STD. PLAN GR-200
FOR DETAILS.

FOR FUTURE OVERLAY ON THE SHOULDER, WHERE IT MEETS THE PIER PROTECTION, THE OVERLAY SHALL PREFERABLY BE A MAXIMUM OF 3". THUS THE EFFECTIVE HEIGHT OF THE BARRIER AT 32" AND THE ATTACHED THRIE BEAM CAN BE LOWERED UP TO 3" WITHOUT FURTHER MODIFICATION TO THE HEIGHT OF THE BARRIER SYSTEM.

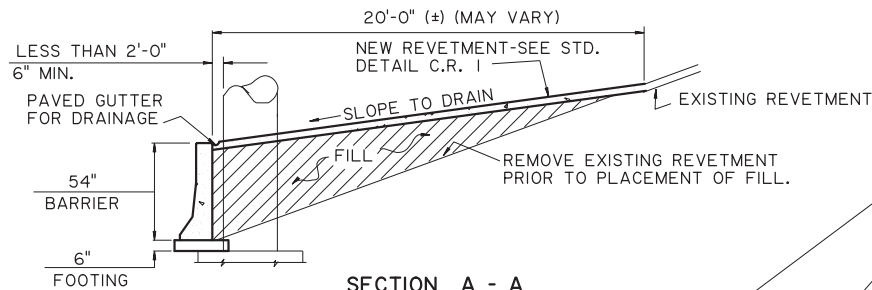
WHEN THE OVERLAY ON THE SHOULDER MUST EXCEED THE 3" MAXIMUM REQUIREMENT, MODIFY THE APPROACH SECTION OF THE PIER PROTECTION SYSTEM AT SECTION D-D TO WHICH THE THREE BEAM CONNECTS, BY RAISING IT TO A HEIGHT EQUAL TO THE DEPTH OF THE REQUIRED OVERLAY. THIS WOULD ALSO REQUIRE THE GUARDRAIL TO BE RAISED BY AN EQUAL AMOUNT.



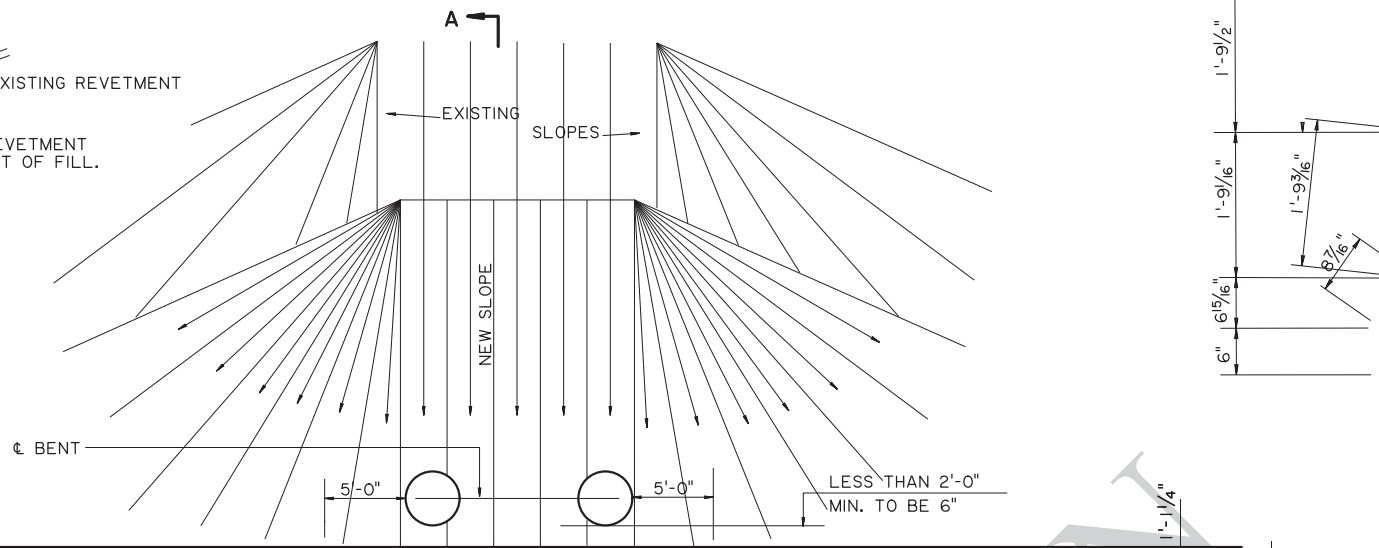
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SECTION A - A

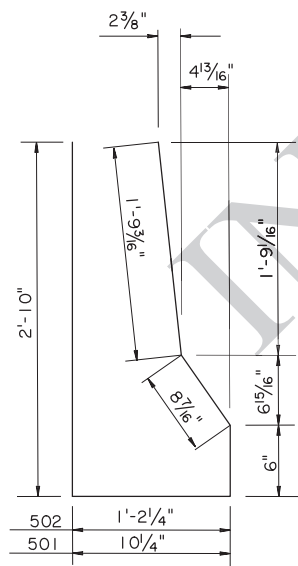


PLAN

ELEVATION

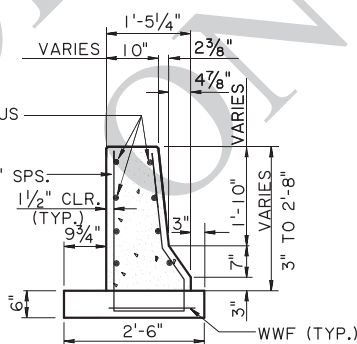
NOTES

- EXISTING SLOPE SHOWN IS FOR ILLUSTRATION ONLY. (SLOPES VARY AT EACH LOCATION)
- LENGTH OF 54" TALL BARRIER TO BE DETERMINED BY THE LENGTH OF THE OBJECT TO BE PROTECTED.
1/2" OPEN JOINTS TO BE AT 20'-0" MAX. CTRS.
- TRAILING END SHOWN IS FOR USE WITH THE FILL SECTIONS.
- FOR TRAILING END ON CUT SECTIONS SEE SHEET 5 OF 8.
- SEE SHEET 5 OF 8 FOR OTHER PIER PROTECTION SYSTEM NOTES.
- REINFORCING STEEL BAR DETAILS THAT ARE SHOWN ARE FOR FABRICATION. STRAIGHT REBAR DETAILS NOT SHOWN, ONLY THE SIZE IS SHOWN IN THE SECTIONS.
- THESE REINFORCING STEEL BAR DIMENSIONS VARY AND SHALL BE ADJUSTED AND FABRICATED TO FIT IN THE TRANSITION AREA.
THIS STANDARD PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD PLAN GR-200.
- SEE STANDARD DETAIL BR-01 FOR FURTHER STANDARD BARRIER & REINFORCING DETAIL INFORMATION.
- 401 BARS WILL TERMINATE IN TRANSITION SECTION WITH 1/2" REQUIRED BAR CLEARANCE.
- FOOTING WIDTH MAY BE ADJUSTED TO 6" TO FIT AROUND COLUMN INTERFERENCE WHEN NEEDED. ADJUSTMENTS TO BE MADE AT NO ADDITIONAL COST. ANY REVISED DETAILS TO BE APPROVED BY THE ENGINEER

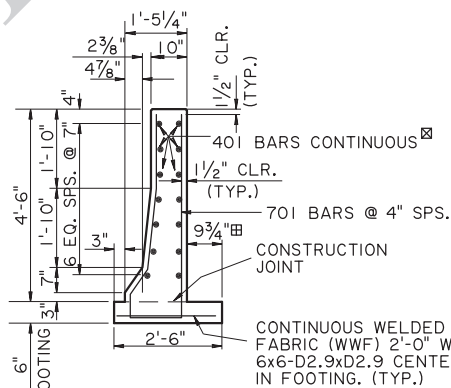


501 & 502

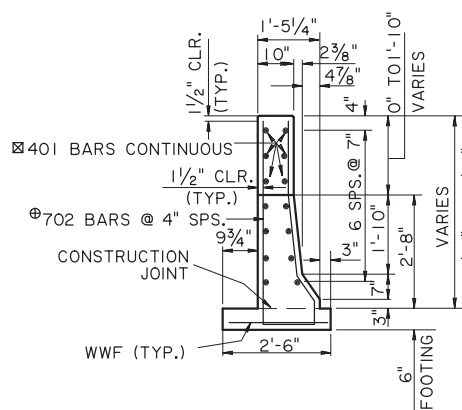
(2 1/2" ± PIN)
(502 BAR DIMENSIONS VARY)



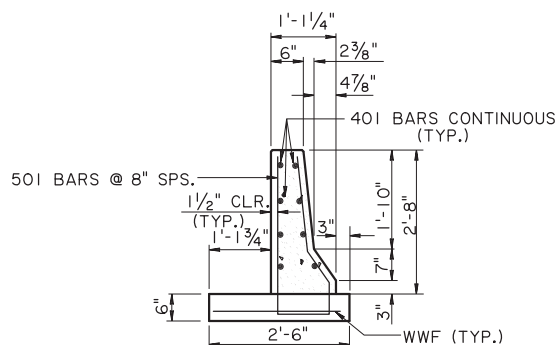
SECTION E-E @ TRANSITION
(2'-8" TO 0'-3")



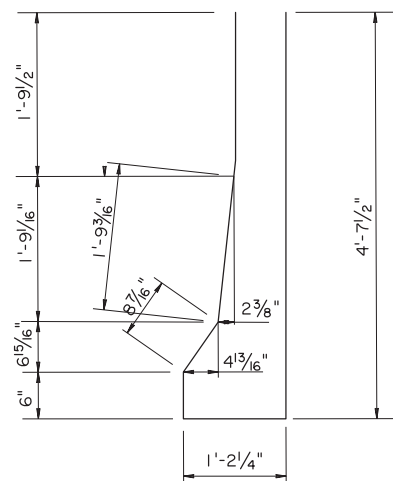
SECTION B-B 4'-6" BARRIER



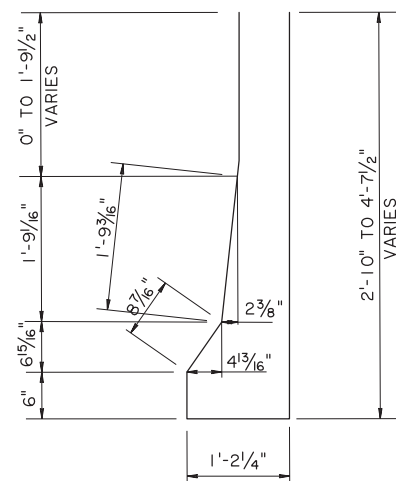
SECTION C-C @ TRANSITION BARRIER
(2'-8" TO 4'-6")



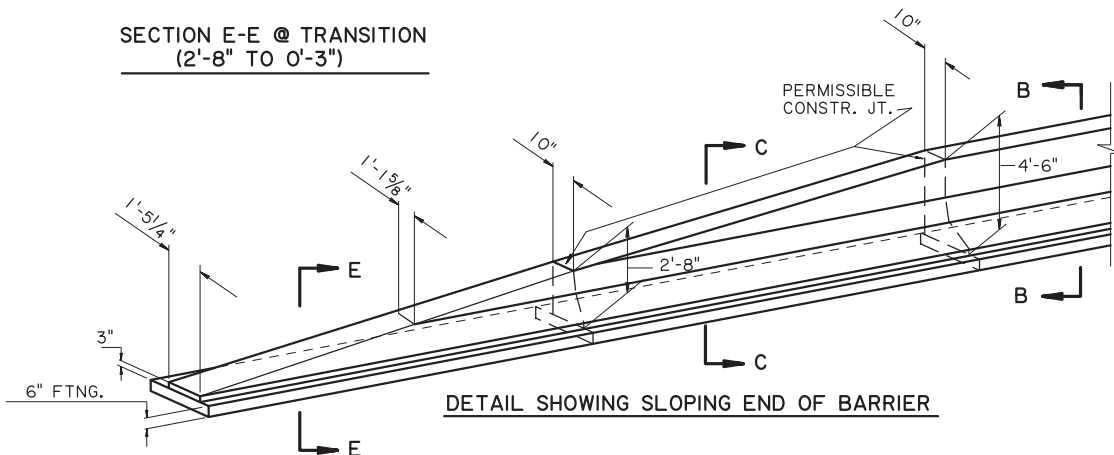
SECTION D-D @ 2'-8" STANDARD BARRIER



701
(5 1/4" ± PIN)

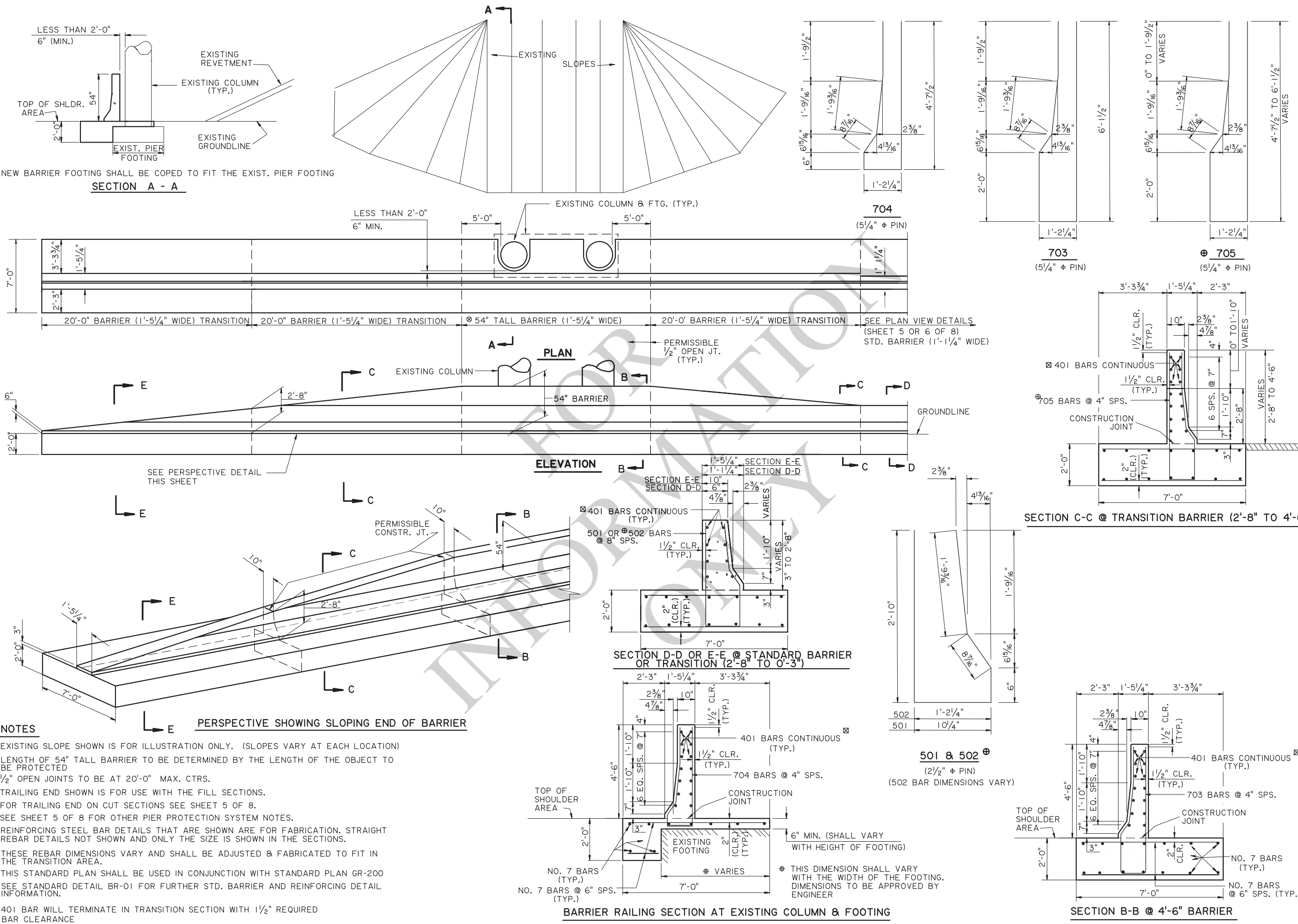


702
(5 1/4" ± PIN)



DETAIL SHOWING SLOPING END OF BARRIER

SHEET NUMBER		PARISH		CONTROL SECTION		STATE PROJECT	
DESIGN	CHECK	G. GRASS		P. FOSSIER			
DETAIL	CHECK						
REVIEW							
APPROVED BY CHIEF ENGINEER:							



SHEET NUMBER		PARISH		CONTROL SECTION		STATE PROJECT	
DESIGN CHECK		G. GRASS		P. FOSSIER		SERIES # 8 OF 8	
APPROVED BY CHIEF ENGINEER:		DATE: 6/29/2026		REVISION OR CHANGE ORDER DESCRIPTION		BY	
NO.		DATE		NO.		DATE	
STATE OF LOUISIANA		CONFIDENTIAL		PIER PROTECTION SYSTEM		SELF-SUPPORTING BARRIER	
CUT & FILL SECTION		GR-201		STANDARD PLAN			