



10/7/2025

**Belton Public Works Department
163rd Street Bridge Handrail Replacement
Bid Request**

Bid Number: 25-025

Bid End date: October 14, 2025

General: Belton Public Works is seeking informal bids for the removal and replacement of the damaged portion of the 163rd Street Oil Creek Bridge handrail at the location shown on the attached sheets. Work includes all material, labor, equipment, and time necessary to complete the project as shown on the following plans and all work listed below.

Work Description:

- Approximately 15 LF of handrail removal and replacement
- Handrail anchors shall be replaced.
- New handrail style and balusters shall match the existing handrail dimensions.
- Handrail installation shall be per MoDOT Standard Specifications.
- The new handrail shall be powdercoated to match the existing handrail.
- Procure traffic control for lane and sidewalk closures as required to complete the work
- Obtain permits as required for the work

Questions:

All questions can be forwarded to Ryan Haupt by phone at 816-892-1267 or by email at rhaupt@belton.org

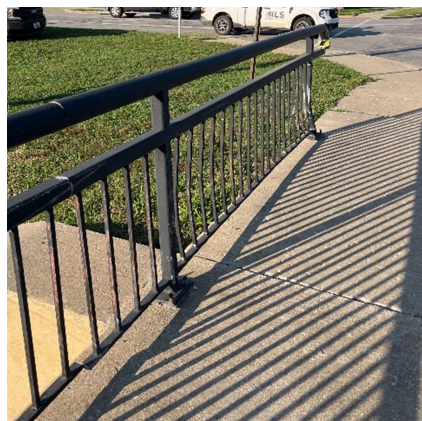
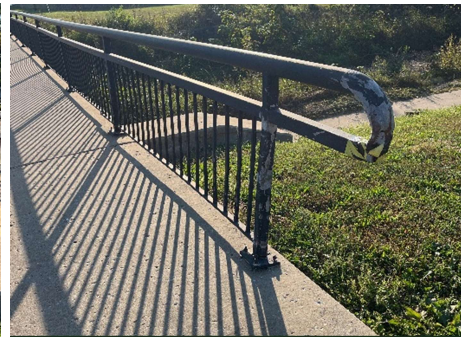
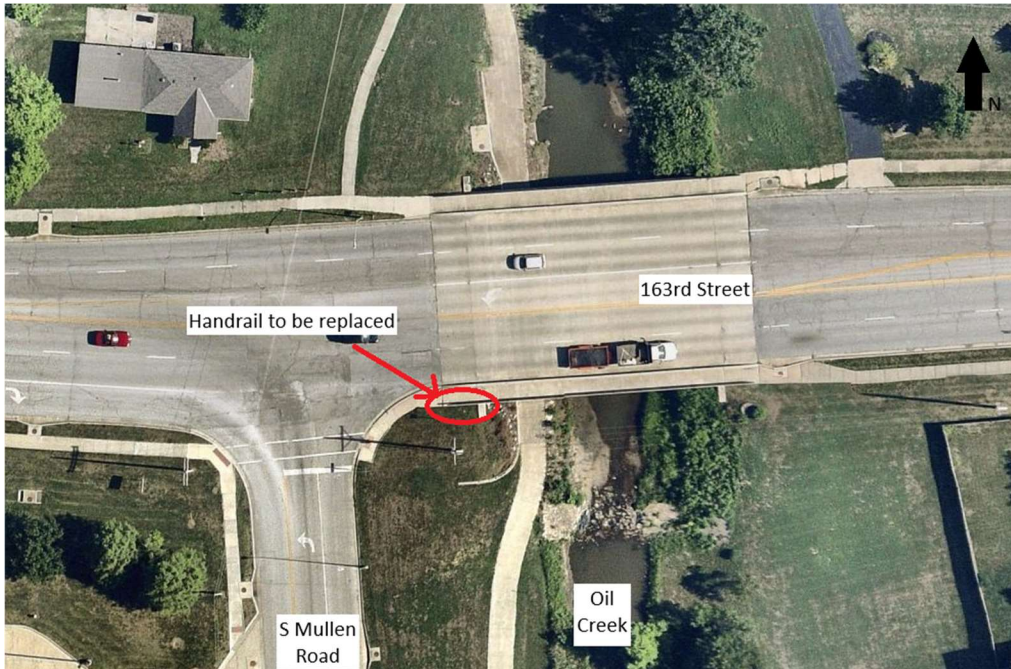
Bid Response:

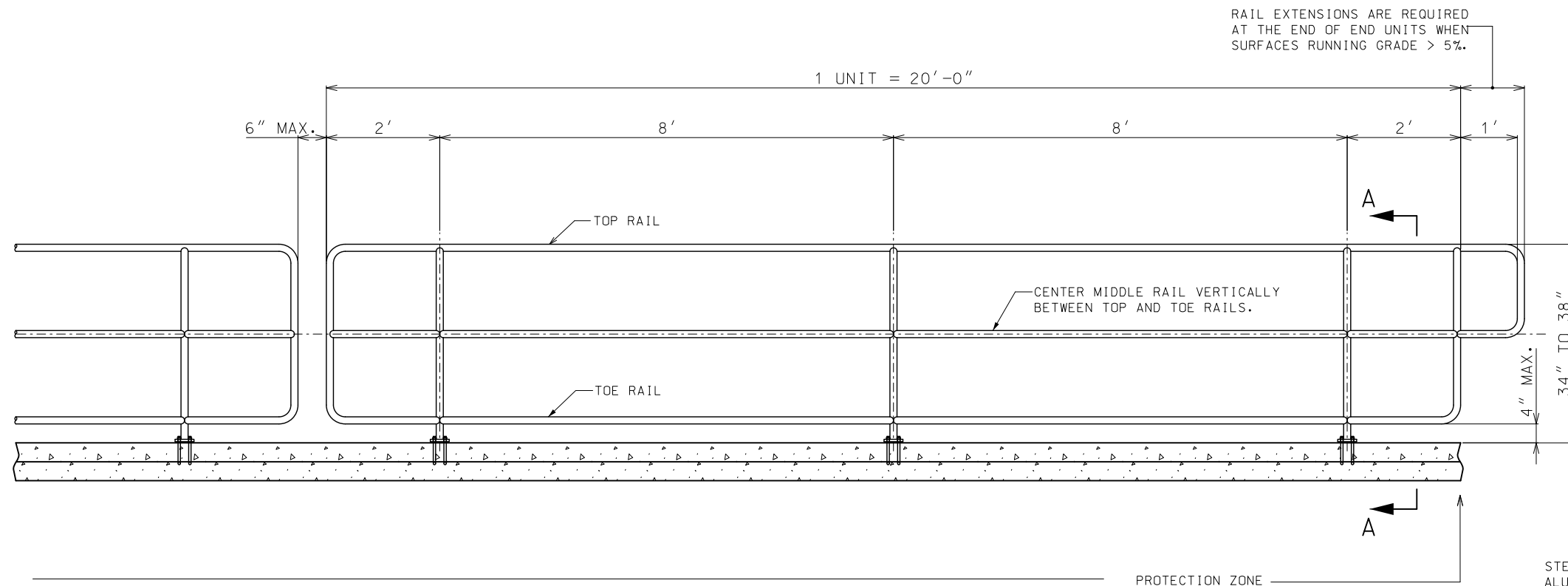
This is an informal bid process. Bids can be emailed to rhaupt@belton.org or can be submitted via written quote by 10:00 a.m., local time, on October 14, 2025.



10/7/2025

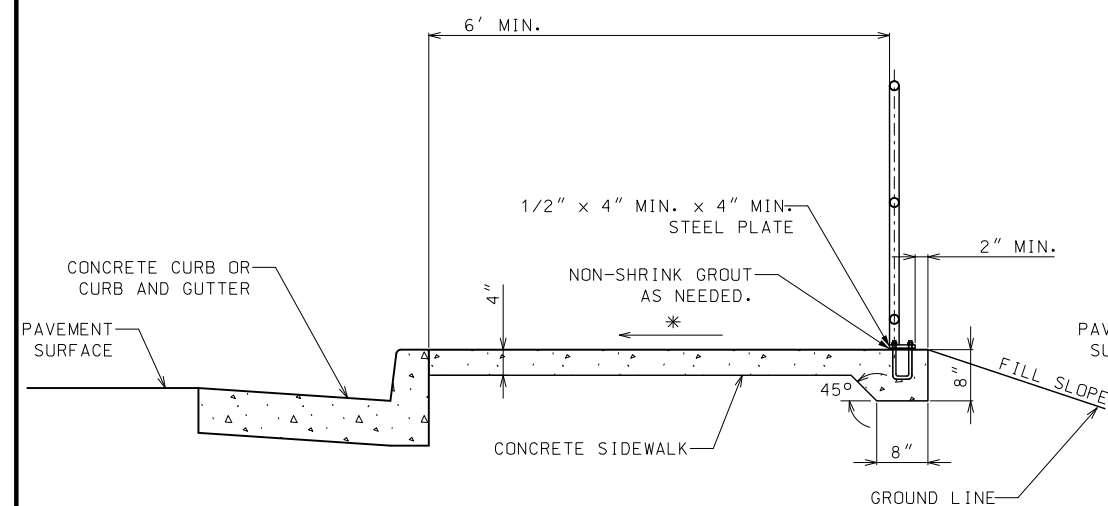
Location Map & Pictures



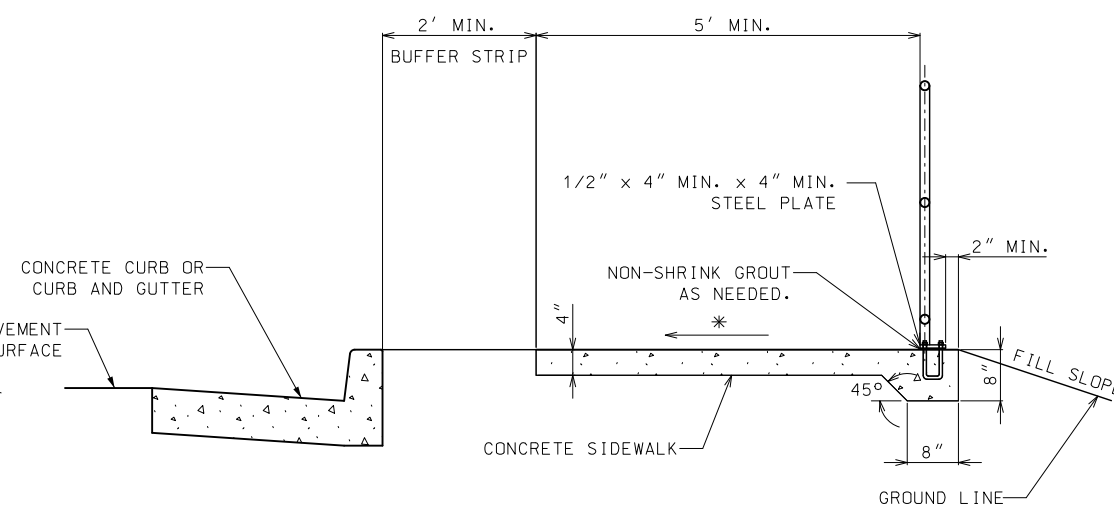


SIDEWALK HANDRAILING WITHOUT BALUSTERS

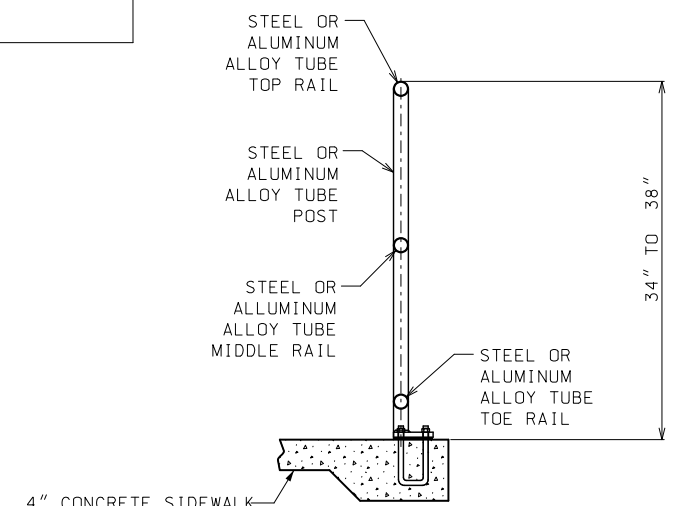
* CROSS SLOPE: 1.0 % MIN. - 2.0 % MAX.



SIDEWALK WITHOUT BUFFER STRIP
(SECTION A-A)



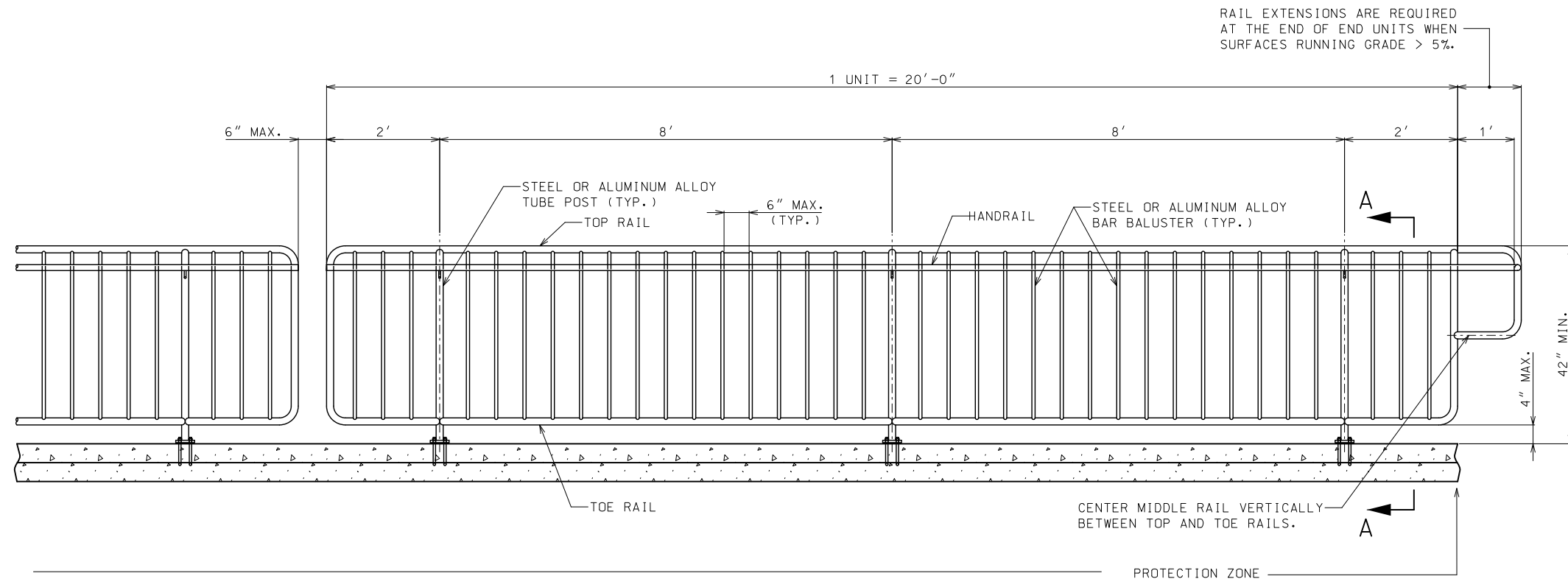
SIDEWALK WITH BUFFER STRIP
(SECTION A-A)



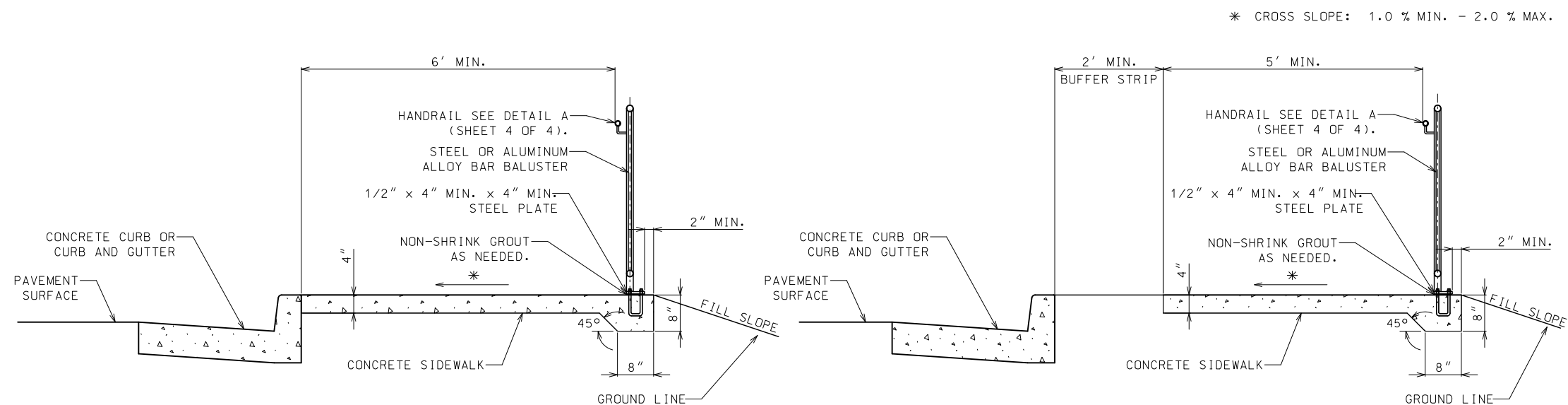
HANDRAILING

FOR GENERAL NOTES AND HANDRAILING REQUIREMENTS ON FILL SLOPES SEE SHEET 3 OF 4

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	HANDRAILING
DATE EFFECTIVE: 01/01/2021 DATE PREPARED: 10/14/2020	608.40A
SHEET NO. 1 OF 4	

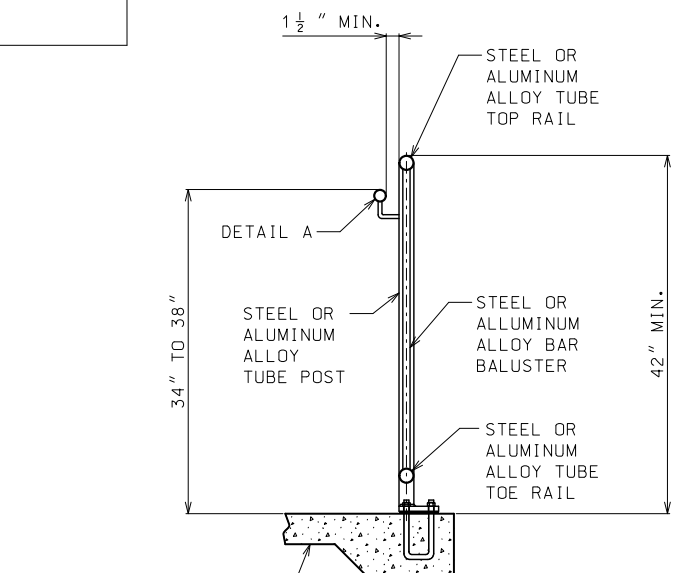


SIDEWALK SAFETY RAIL WITH BALUSTERS AND HANDRAIL



SIDEWALK WITHOUT BUFFER STRIP (SECTION A-A)

SIDEWALK WITH BUFFER STRIP (SECTION A-A)

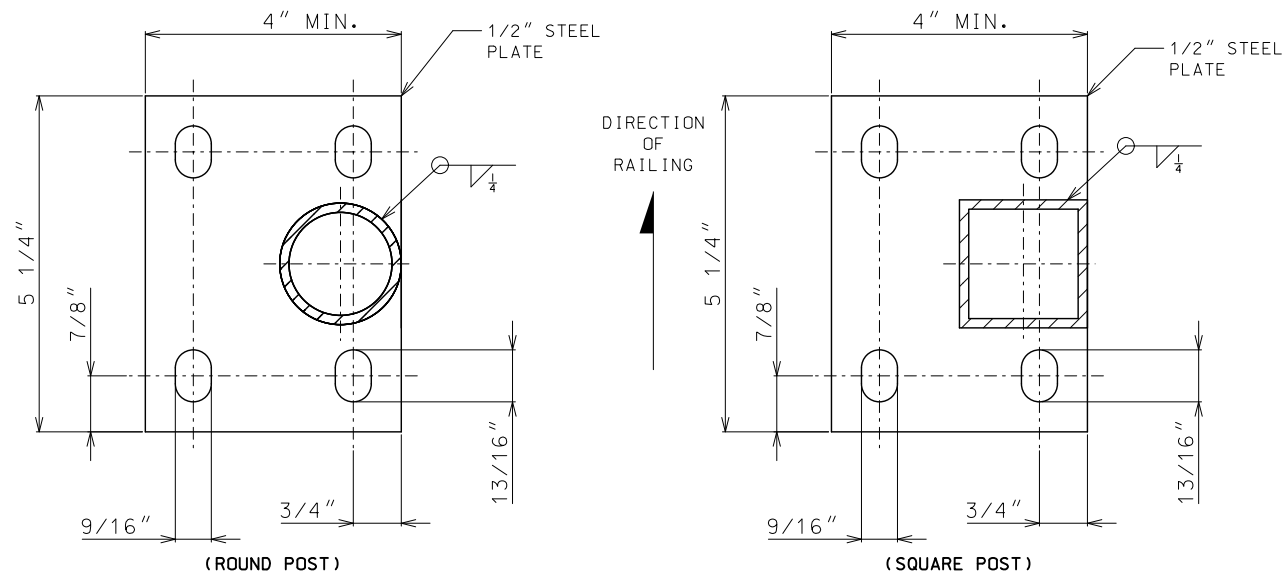


SAFETY RAIL WITH HANDRAIL

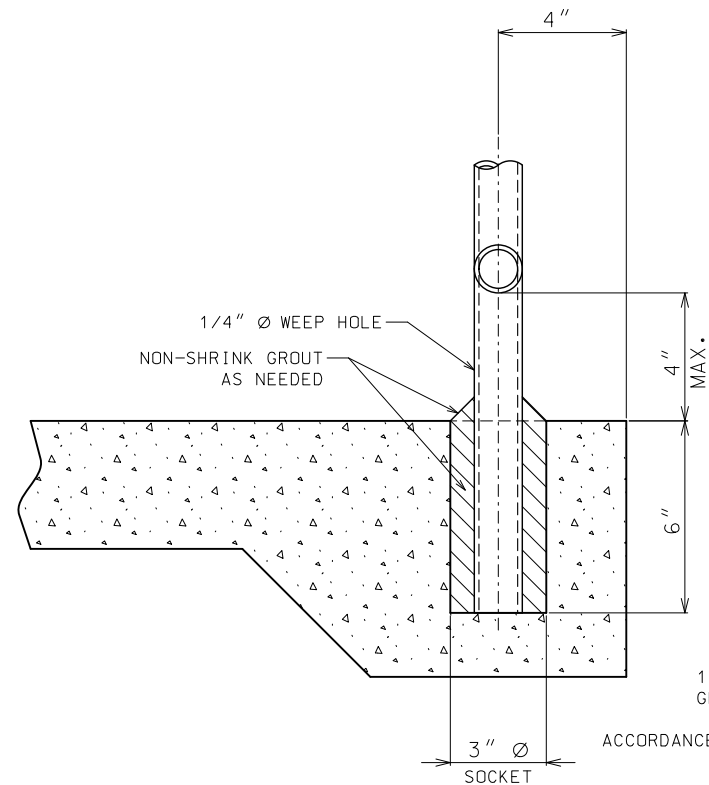
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
 STATE OF MISSOURI TRAVIS D. KOESTNER NUMBER PE-30042 PROFESSIONAL ENGINEER THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.	HANDRAILING
DATE EFFECTIVE: 01/01/2021 DATE PREPARED: 10/14/2020	SHEET NO. 608.40A 2 OF 4

FOR GENERAL NOTES AND HANDRAIL REQUIREMENTS ON FILL SLOPES SEE SHEET 3 OF 4.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



MOUNTING PLATE DETAIL
(PLAN VIEW)



SOCKET MOUNTING DETAIL

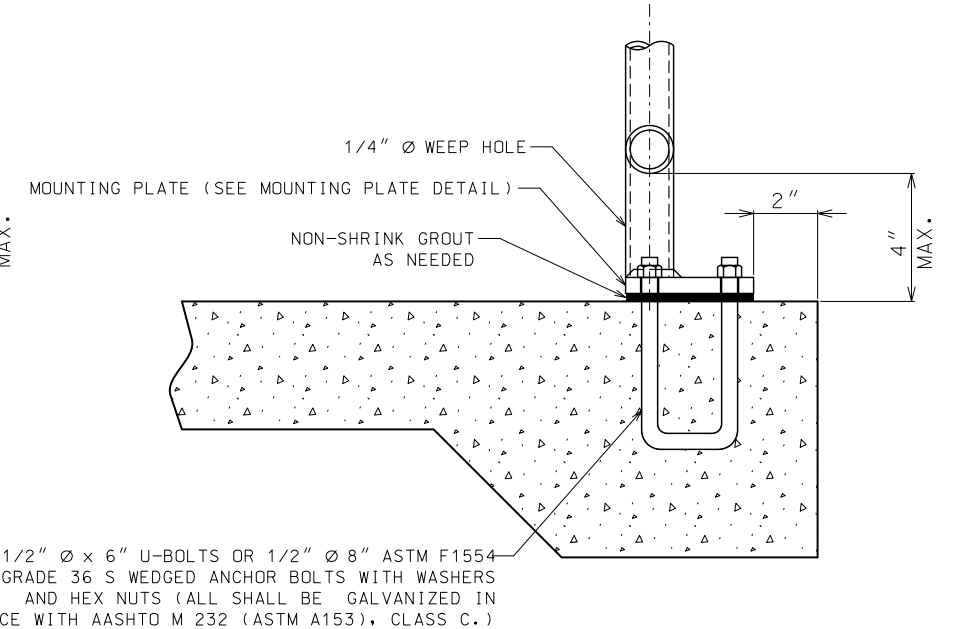


PLATE MOUNTING DETAIL

GENERAL NOTES:

RAILINGS AND POSTS MAY BE EITHER ROUND OR SQUARE STEEL OF GOOD COMMERCIAL WELDABLE QUALITY OR ALUMINUM ALLOY 6061-T6 OR 6063-T6.

STEEL RAILINGS AND POSTS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111.

ALL JOINTS SHALL BE CONTINUOUS WELDED AND GROUND SMOOTH.

METAL SAFETY RAIL MUST BE COMPLIANT WITH THE "AMERICAN'S WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)". EXCEPTIONS MUST BE APPROVED BY THE ENGINEER. ALL OTHER AREAS OF NON-COMPLIANCE SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE.

ALL POSTS SHALL HAVE A 1/4" WEEP HOLE IMMEDIATELY ABOVE THE MOUNTING PLATE.

WHEN INSTALLED THE POSTS SHALL BE PLUMB AND RAILINGS SHALL MATCH THE SLOPE OF THE SIDEWALK.

HANDRAIL REQUIREMENTS		
FILL SLOPE	FILL HEIGHT	HANDRAIL
(1V:3H) OR FLATTER	_____	NOT REQUIRED
(1V:3H) OR STEEPER	≥ 6 FT.	REQUIRED
(1V:2H) OR STEEPER	≥ 4 FT.	REQUIRED
(1V:1H) OR STEEPER	≥ 1 FT.	REQUIRED

RAILING AND POST SPECIFICATION				
DESCRIPTION	TYPE	SIZE (DIA.)	WEIGHT (LBS. / FT.)	
			ALUM.	STEEL
RAILING & POST	ROUND	1 1/2"	0.940	2.720
	SQUARE	2" X 2"	1.3094	4.310
BALUSTER	ROUND	1/2"	0.2312	0.668
	RECT.	3/8" X 1/2" STL.	_____	0.6375
	SQUARE	1/2" X 1/2" ALUM.	0.2944	_____

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI

TRAVIS D. KOESTNER

NUMBER PE-30042

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

HANDRAILING

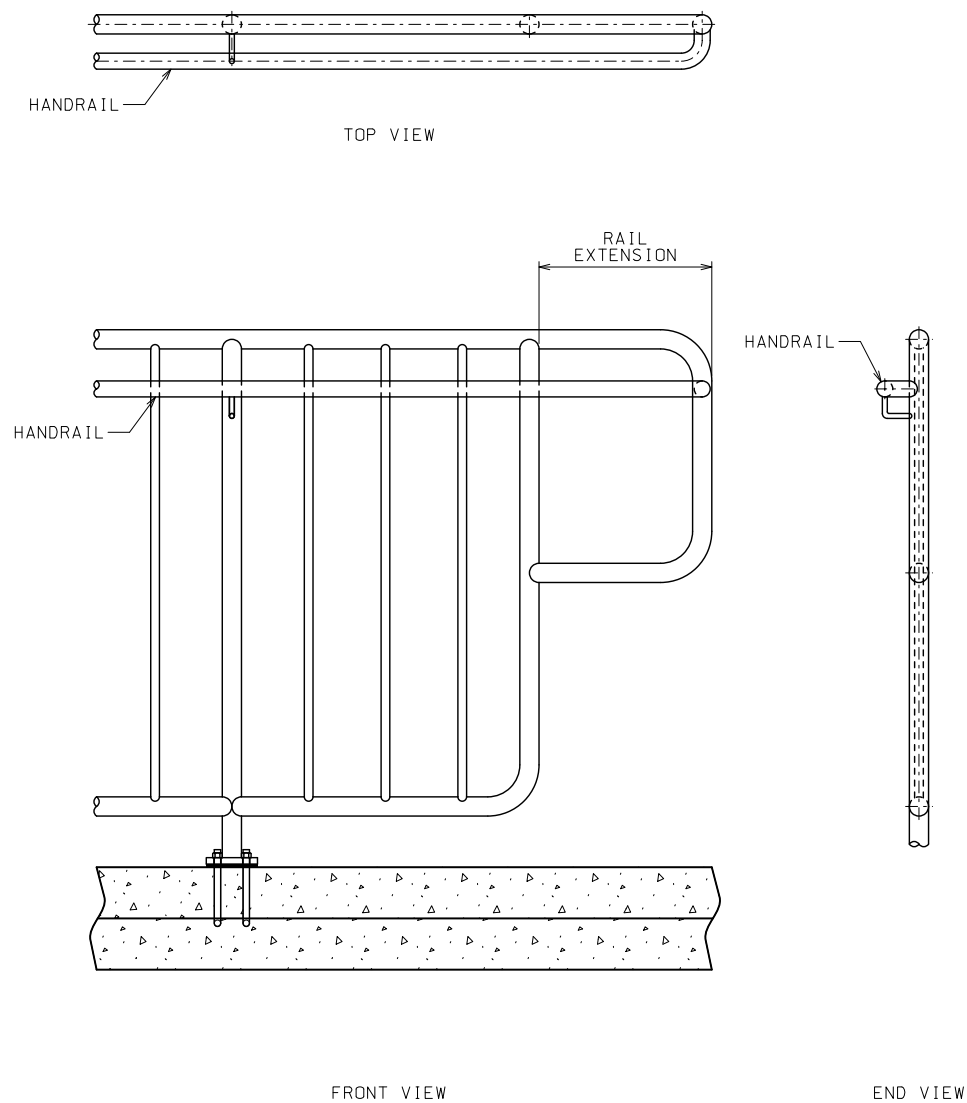
DATE EFFECTIVE: 01/01/2021

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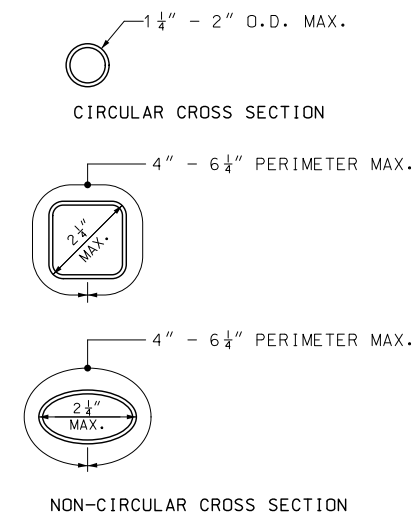
608.40A

SHEET NO. 3 OF 4

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



HANDRAIL AND EXTENSION CONNECTION



HANDRAIL GRIPPING SURFACES

HANDRAIL NOTES:

HANDRAILS SHALL BE STEEL OF GOOD COMMERCIAL WELDABLE QUALITY OR ALUMINUM ALLOY 6061-T6 OR 6063-T6.

HANDRAILS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111.

HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES.

HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES.

THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH.

WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:20, THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS.

THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACE SHALL BE PERMITTED TO BE REDUCED BY $\frac{1}{8}$ " FOR EACH $\frac{1}{2}$ " OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4".

HANDRAIL SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

DETAIL A - HANDRAIL

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DATE EFFECTIVE: 01/01/2021 DATE PREPARED: 10/14/2020	608.40A SHEET NO. 4 OF 4