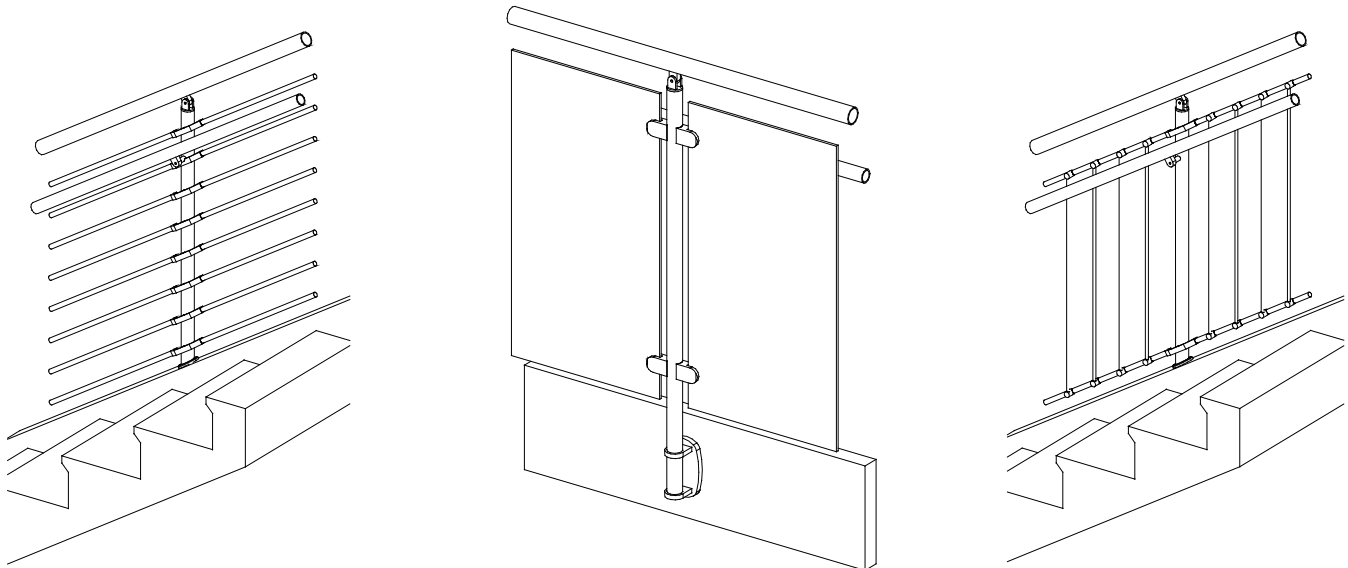




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Wood Dale, IL 60191  
Office: 630.860.2990  
Fax: 630.860.5913  
artec-rail.com

# MODESTO SYSTEM

## TECHNICAL DETAILS



SYSTEM: MODESTO

COVER SHEET

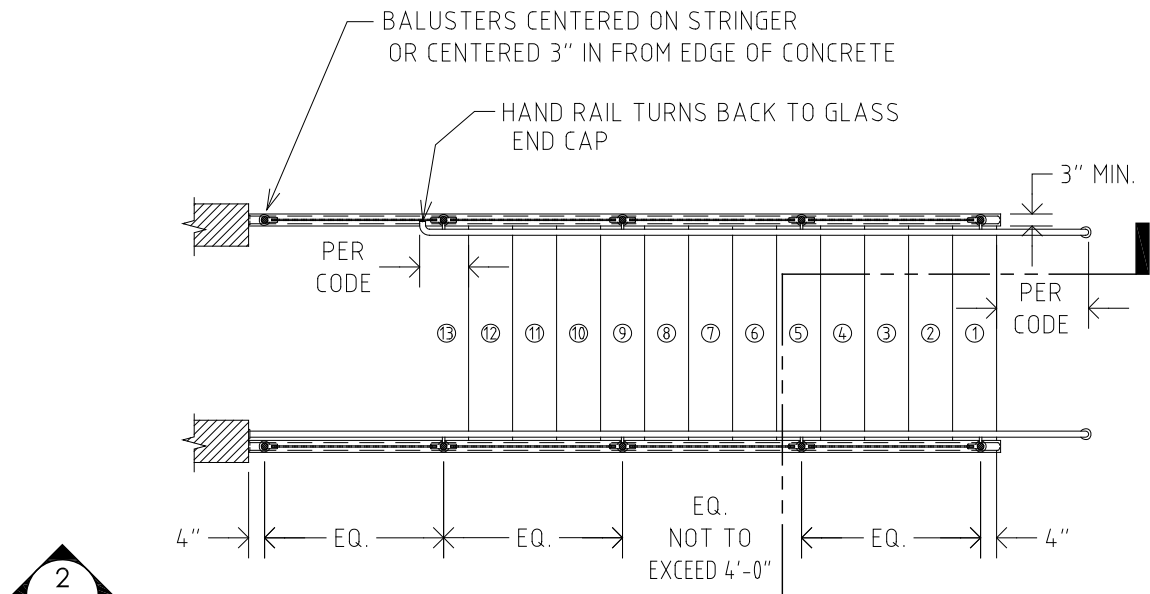
NO SCALE

MODESTO SYSTEM

REVISION 2016-05

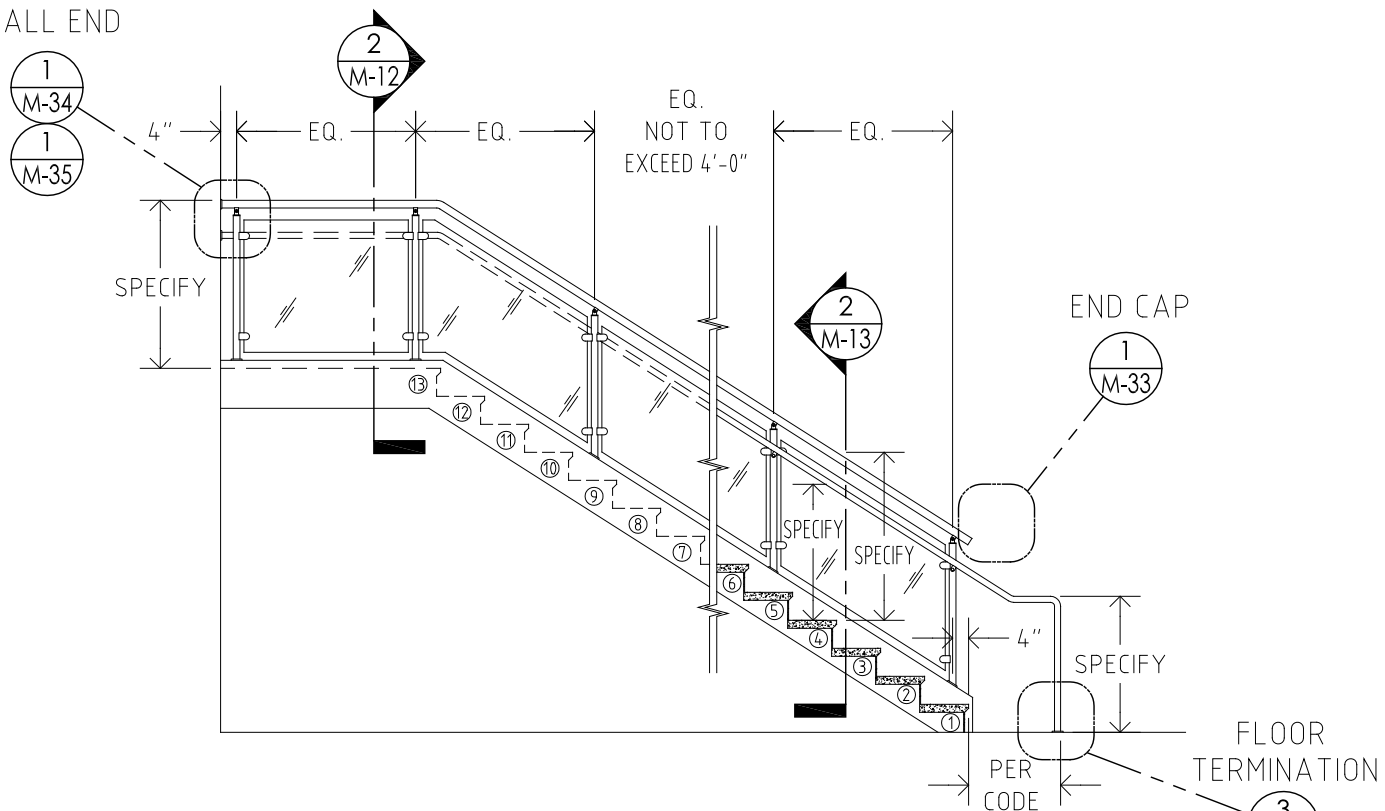
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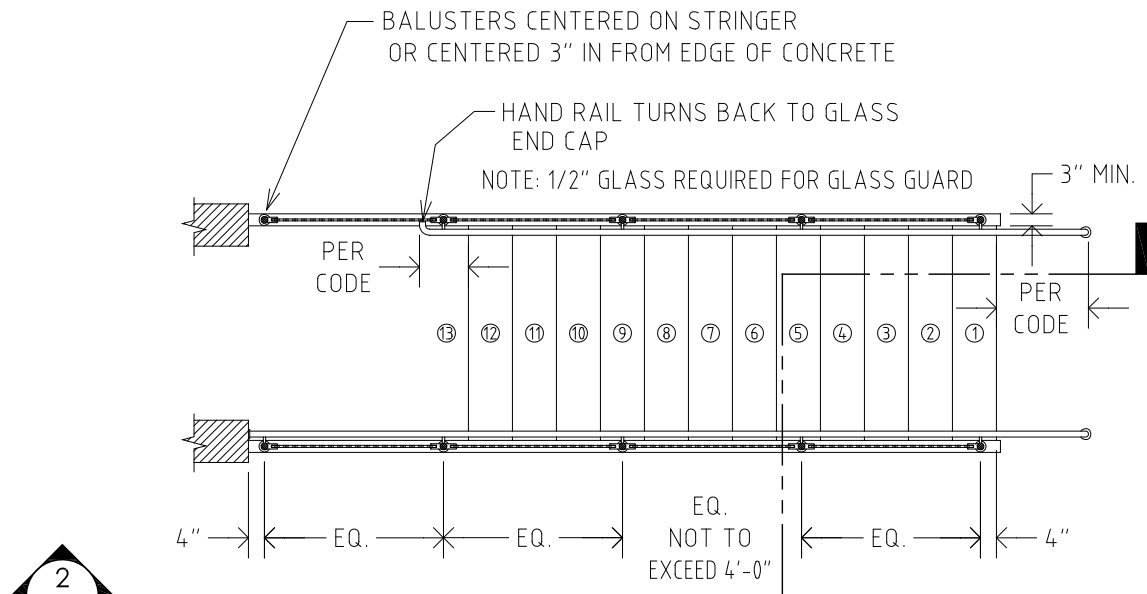


1  
M-03 TYPICAL PLAN: TOP MOUNT SYSTEM  
SCALE: 1/4" = 1'-0"

WALL END



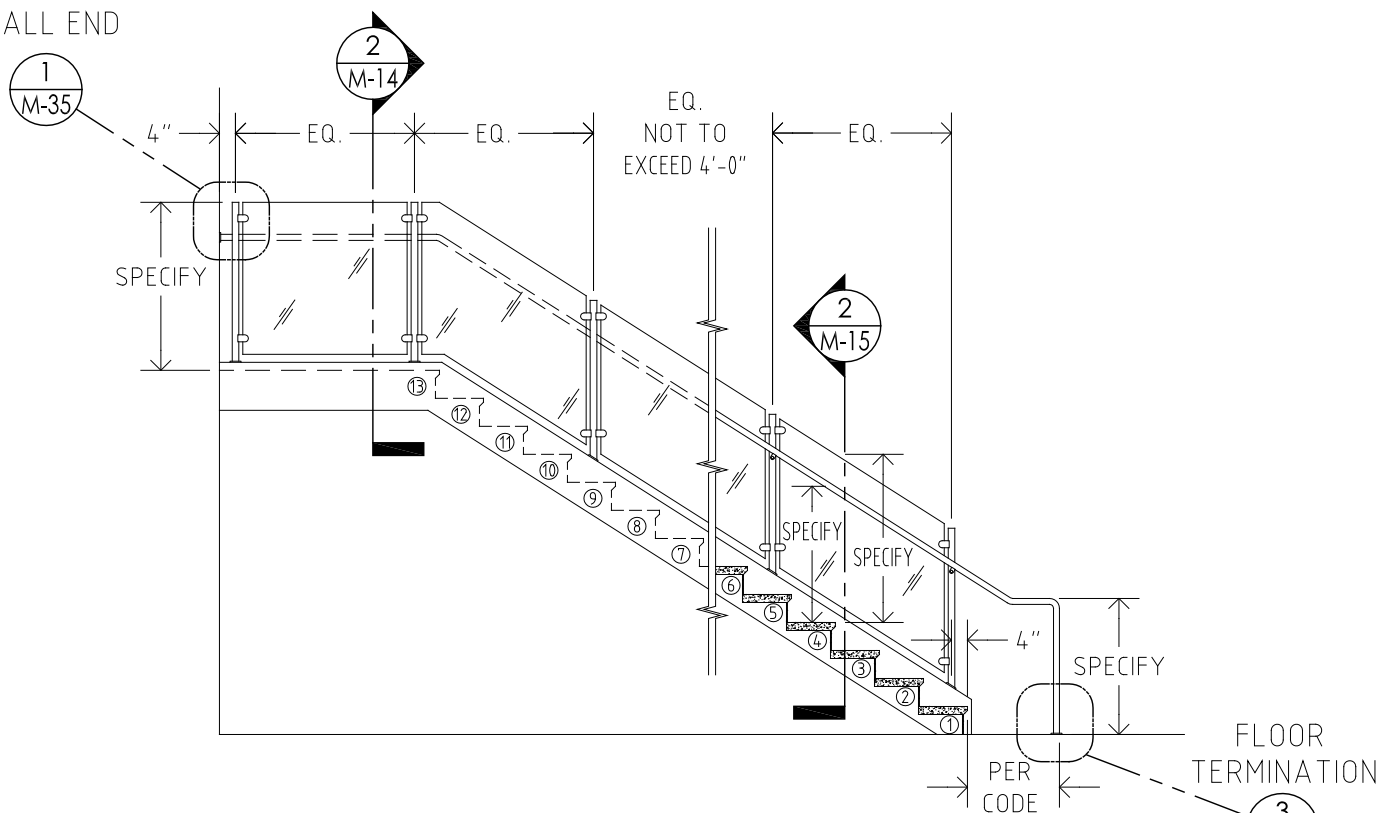
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M-03 TYPICAL ELEVATION: TOP MOUNT SYSTEM  
SCALE: 1/4" = 1'-0"



1  
M-04

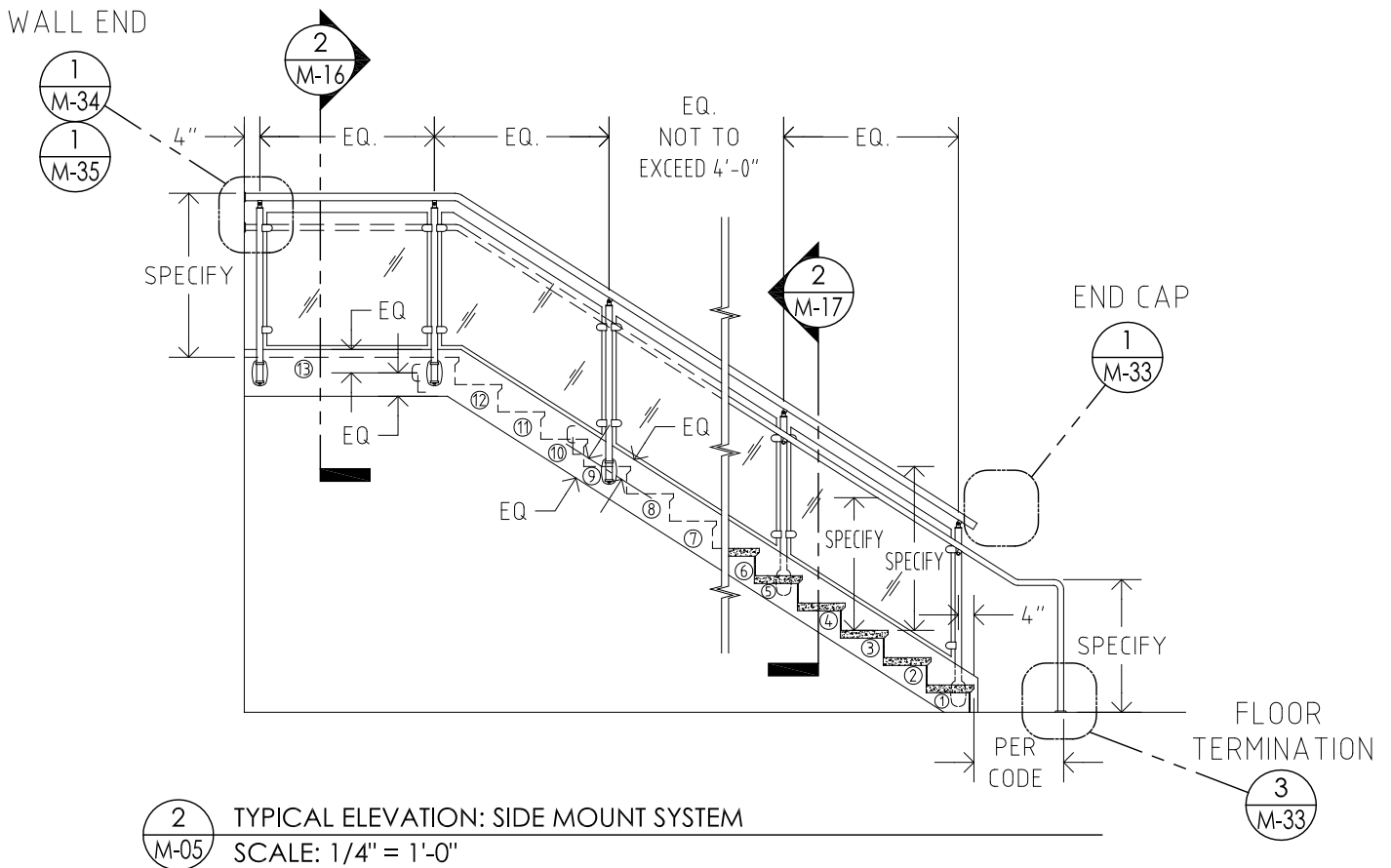
TYPICAL PLAN: TOP MOUNT, GLASS GUARD  
SCALE: 1/4" = 1'-0"

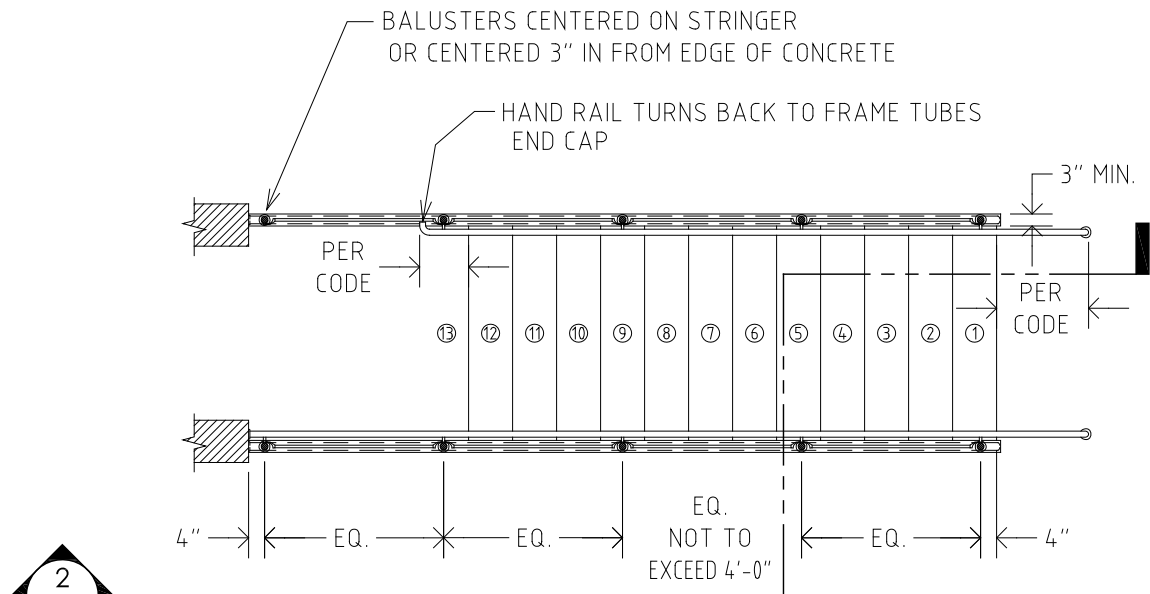
WALL END



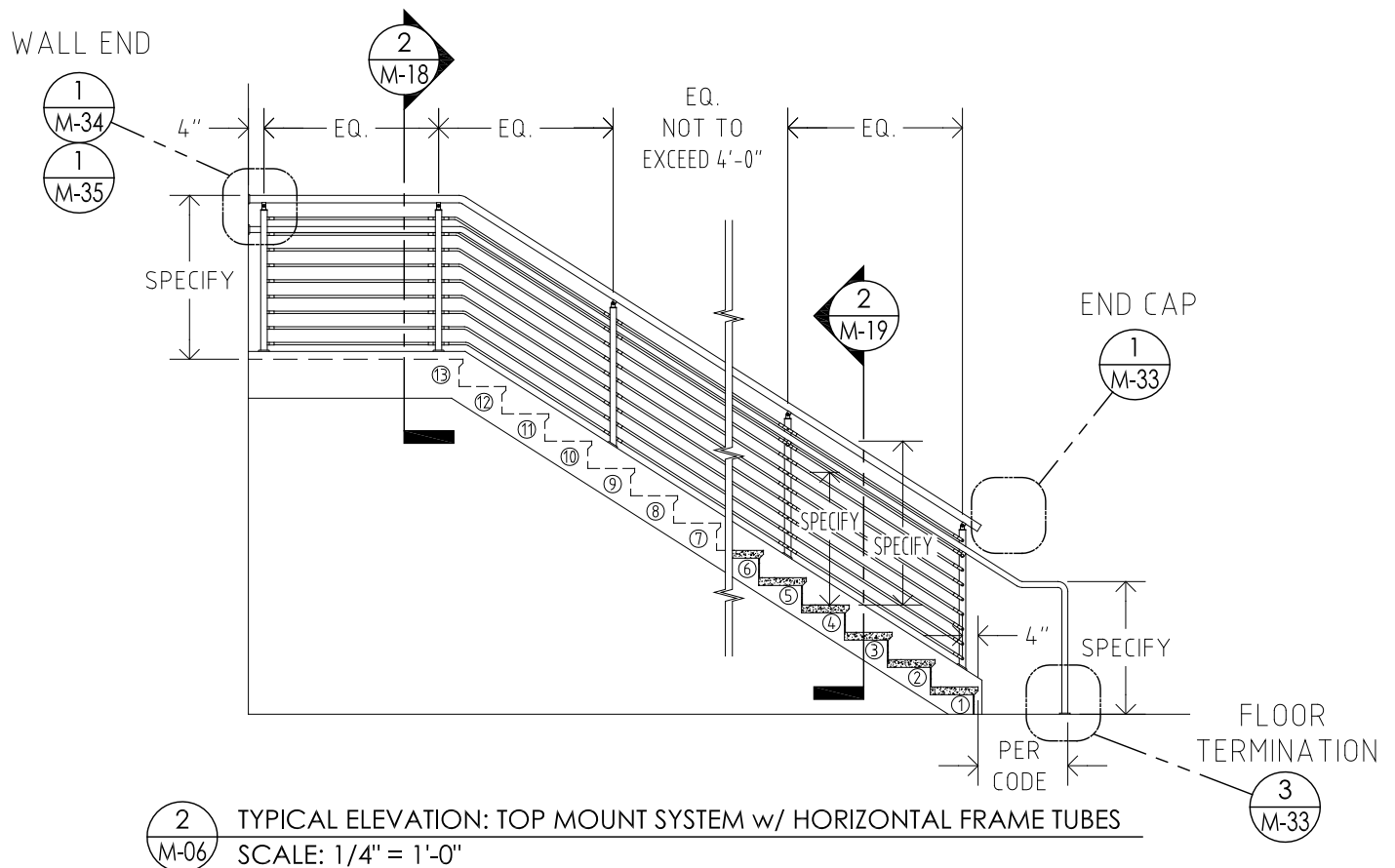
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M-04

TYPICAL ELEVATION: TOP MOUNT, GLASS GUARD  
SCALE: 1/4" = 1'-0"

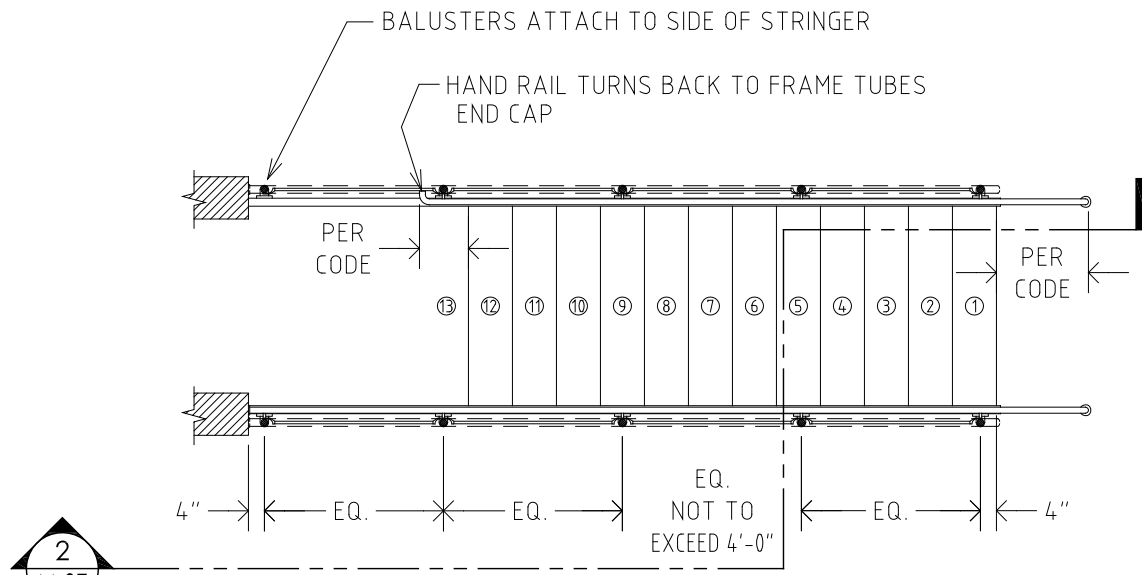




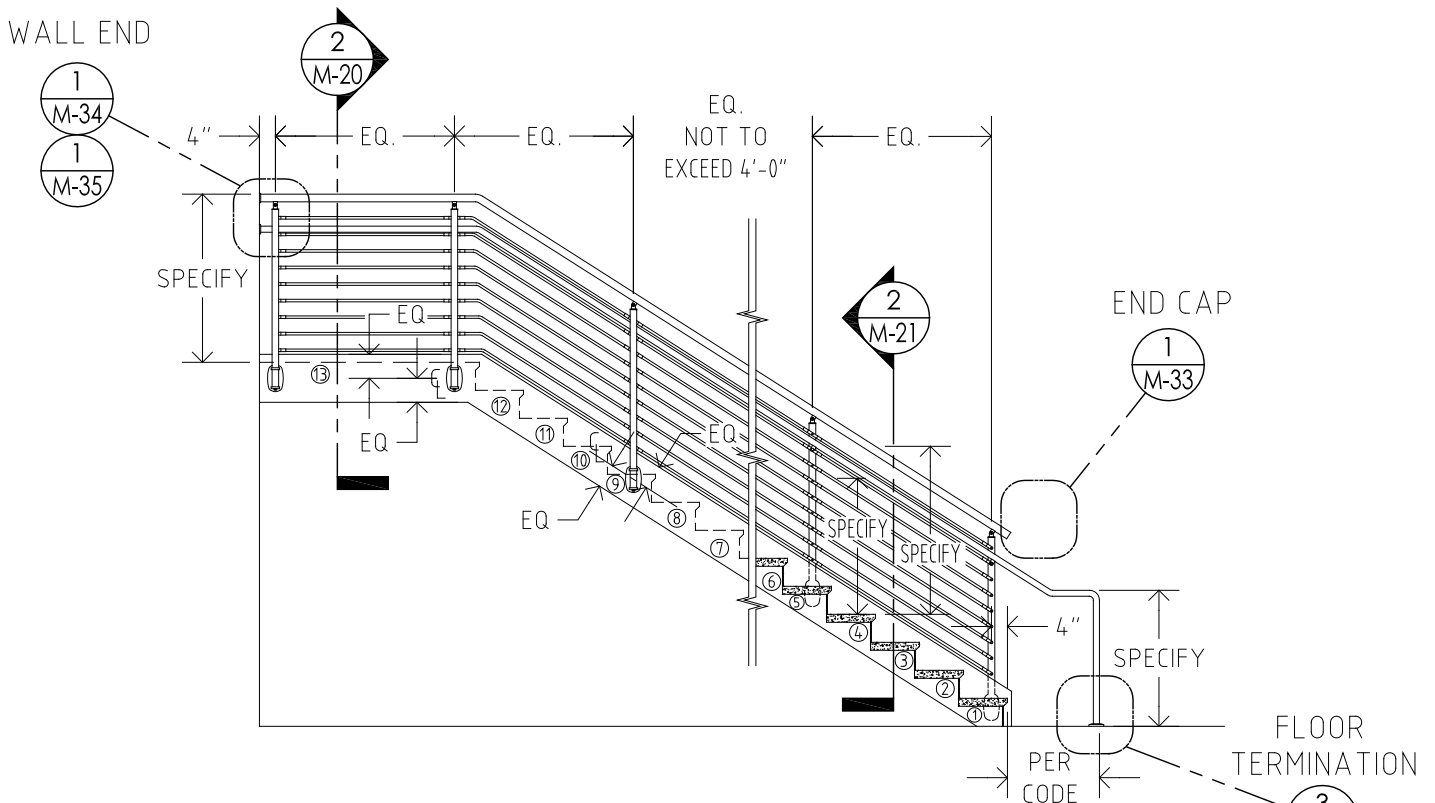
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M-06 TYPICAL PLAN: TOP MOUNT SYSTEM w/ HORIZONTAL FRAME TUBES  
SCALE: 1/4" = 1'-0"



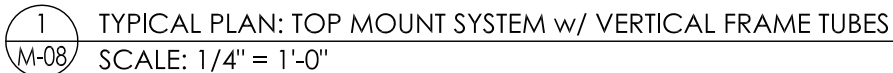
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M-06 TYPICAL ELEVATION: TOP MOUNT SYSTEM w/ HORIZONTAL FRAME TUBES  
SCALE: 1/4" = 1'-0"

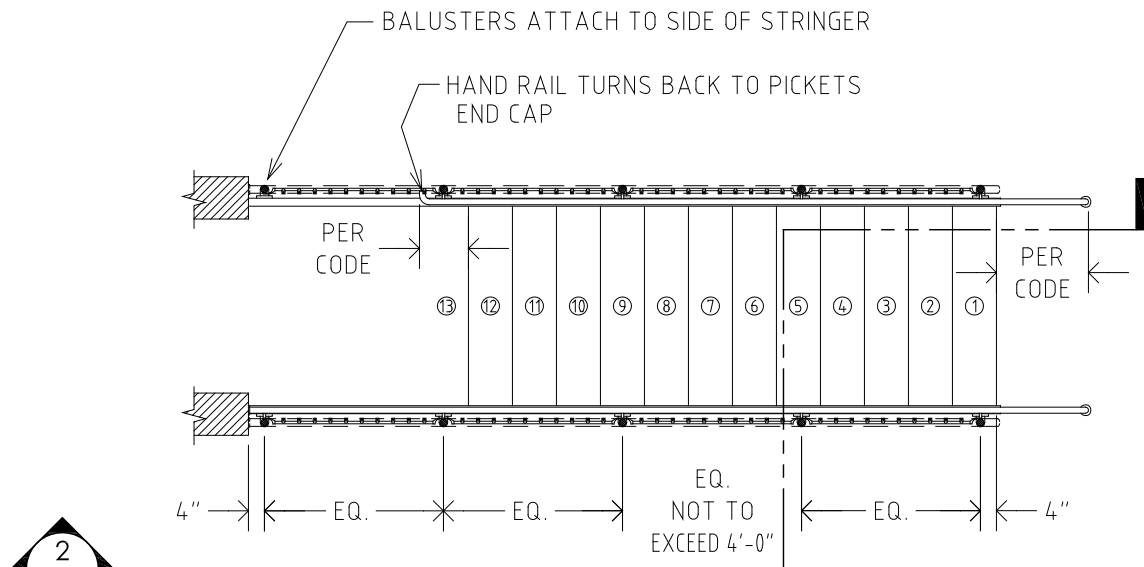


1  
M-07  
TYPICAL PLAN: SIDE MOUNT SYSTEM w/ HORIZONTAL FRAME TUBES  
SCALE: 1/4" = 1'-0"

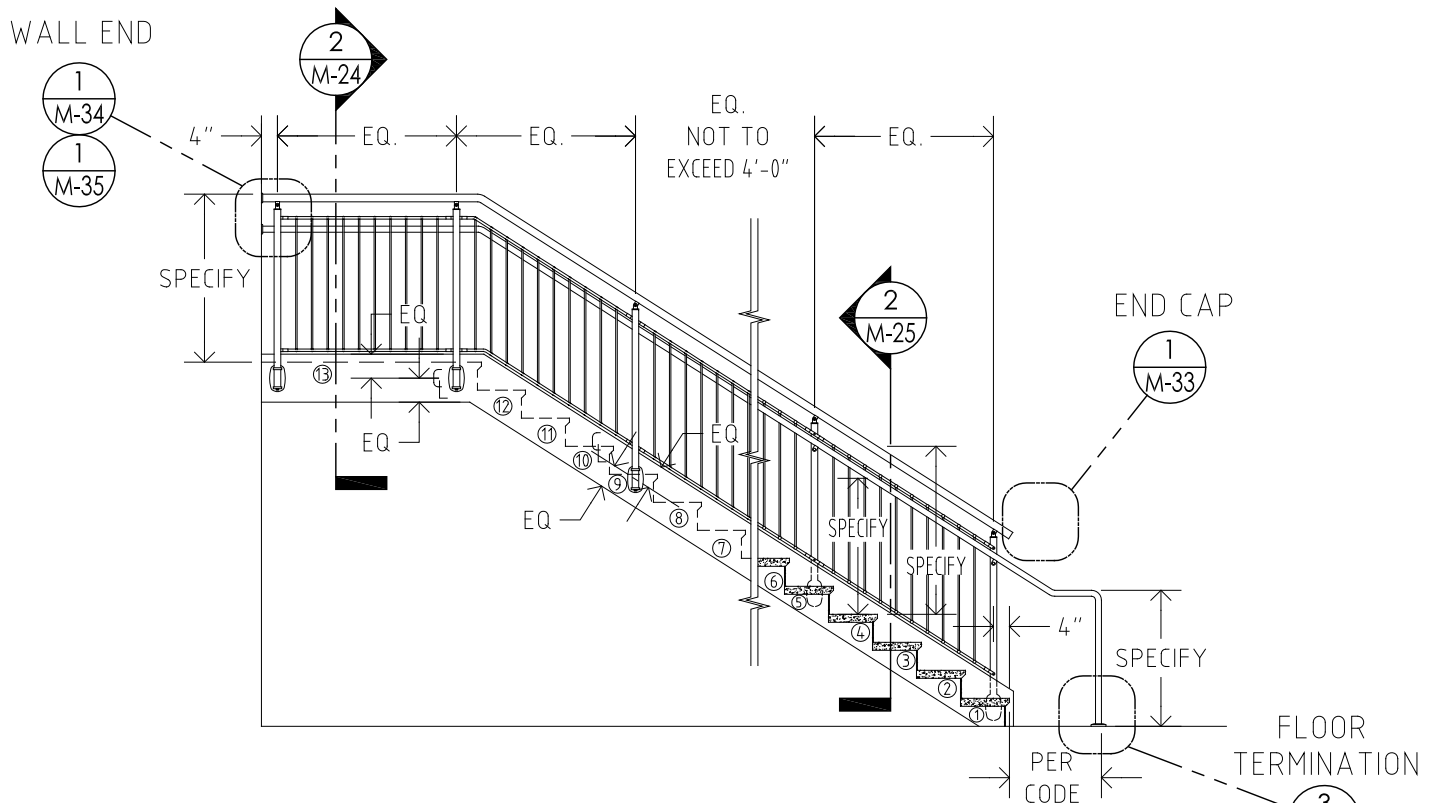


2  
M-07  
TYPICAL ELEVATION: SIDE MOUNT SYSTEM w/ HORIZONTAL FRAME TUBES  
SCALE: 1/4" = 1'-0"

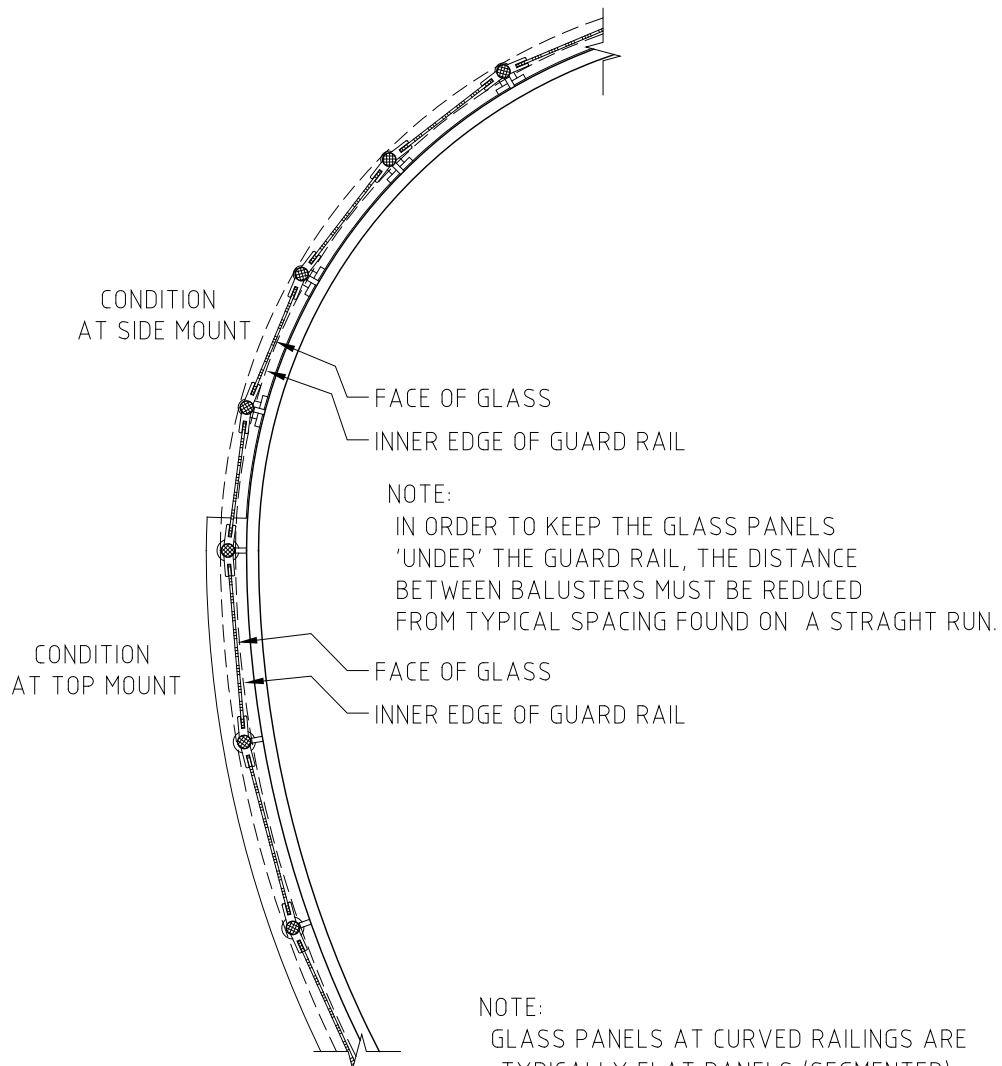




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M-09 TYPICAL PLAN: SIDE MOUNT SYSTEM w/ VERTICAL PICKETS  
SCALE: 1/4" = 1'-0"

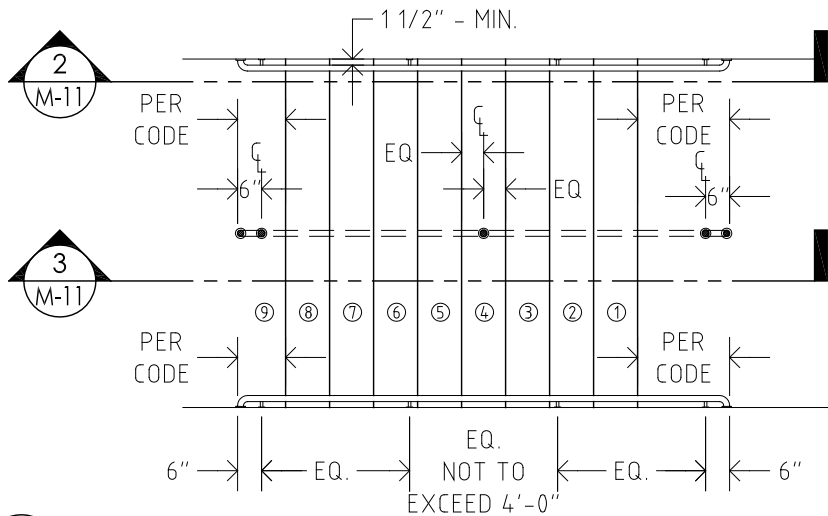


2  
M-09 TYPICAL ELEVATION: SIDE MOUNT SYSTEM w/ VERTICAL PICKETS  
SCALE: 1/4" = 1'-0"



NOTE:  
GLASS PANELS AT CURVED RAILINGS ARE TYPICALLY FLAT PANELS (SEGMENTED).  
GLASS PANELS MAY BE CURVED, BUT THE MINIMUM RADIUS IS 30", AND THE GLASS MAY NOT EXCEED 90° OF BENDING (A QUARTER OF A CIRCLE MAX.)

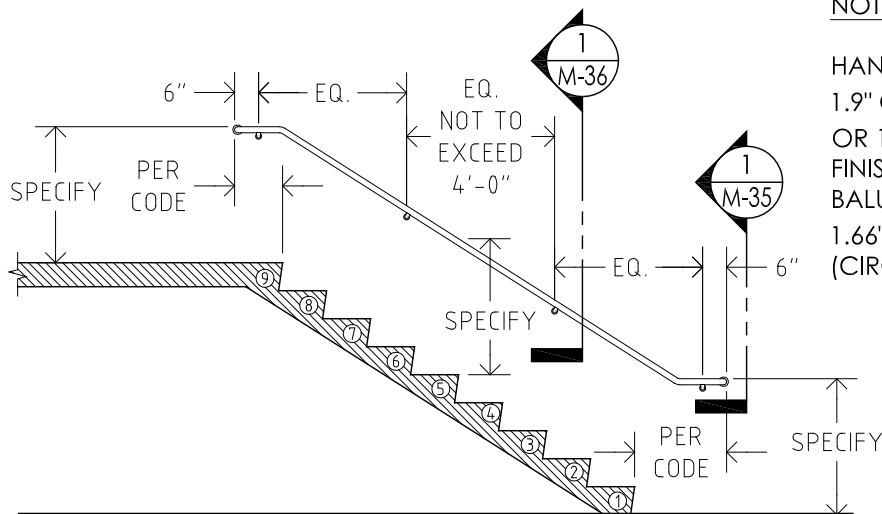
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M-10 SCHEMATIC PLAN: CURVED RAILINGS  
SCALE: 1/2" = 1'-0"



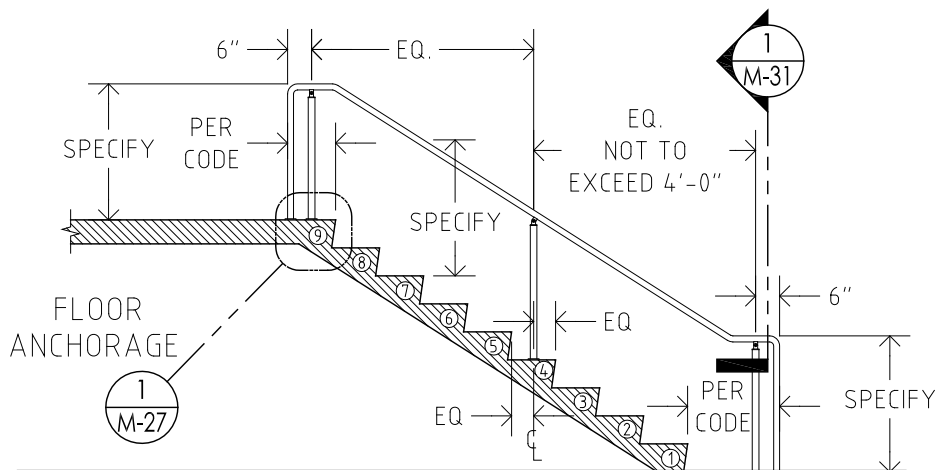
1 PLAN: WALL MOUNT HANDRAIL & NO-INFILL RAILING  
SCALE: 1/4" = 1'-0"

NOTES:

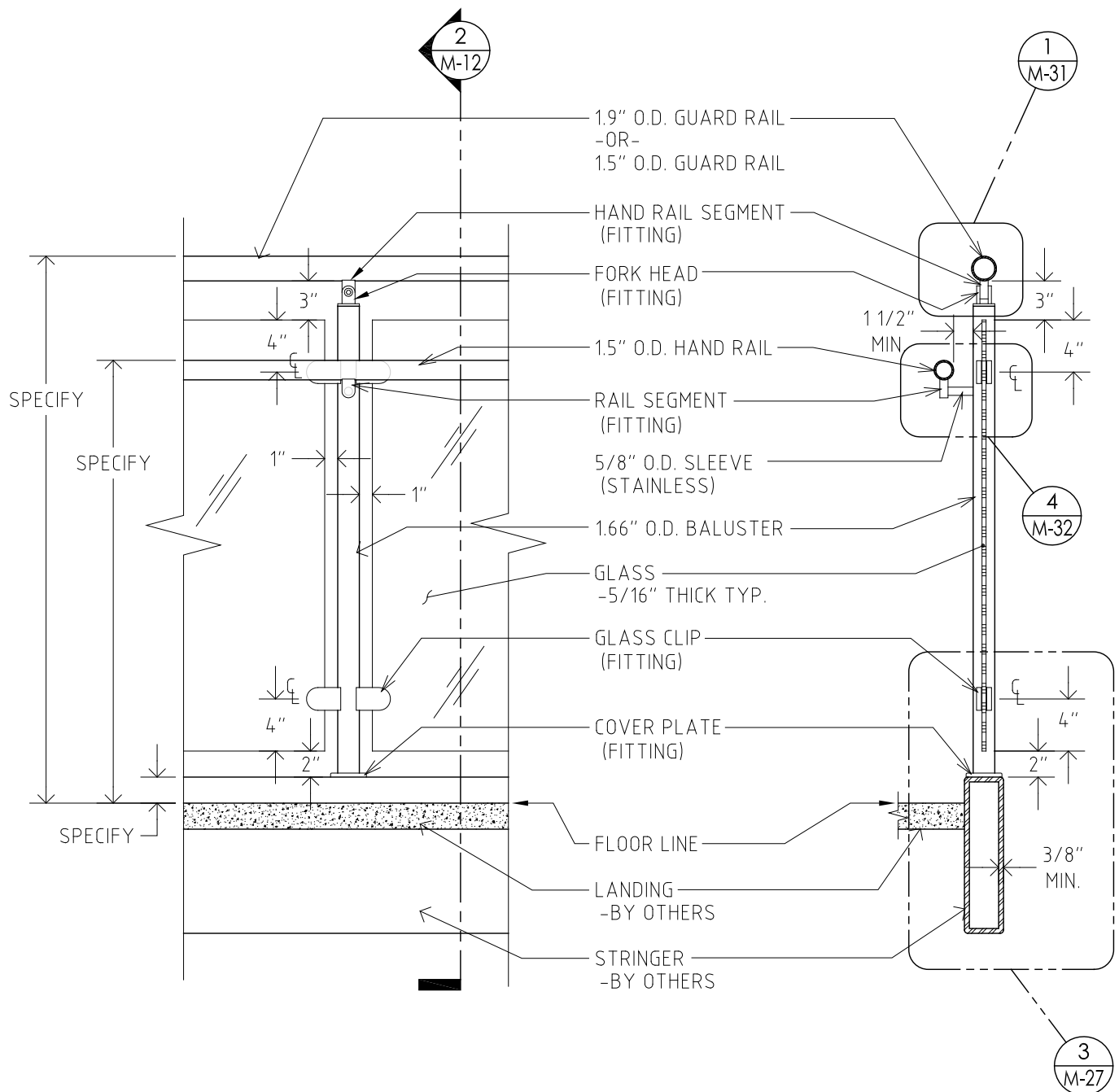
HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENTIAL).  
BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENTIAL).



2 ELEVATION: WALL MOUNT HANDRAIL  
SCALE: 1/4" = 1'-0"



3 ELEVATION: NO-INFILL RAILING  
SCALE: 1/4" = 1'-0"



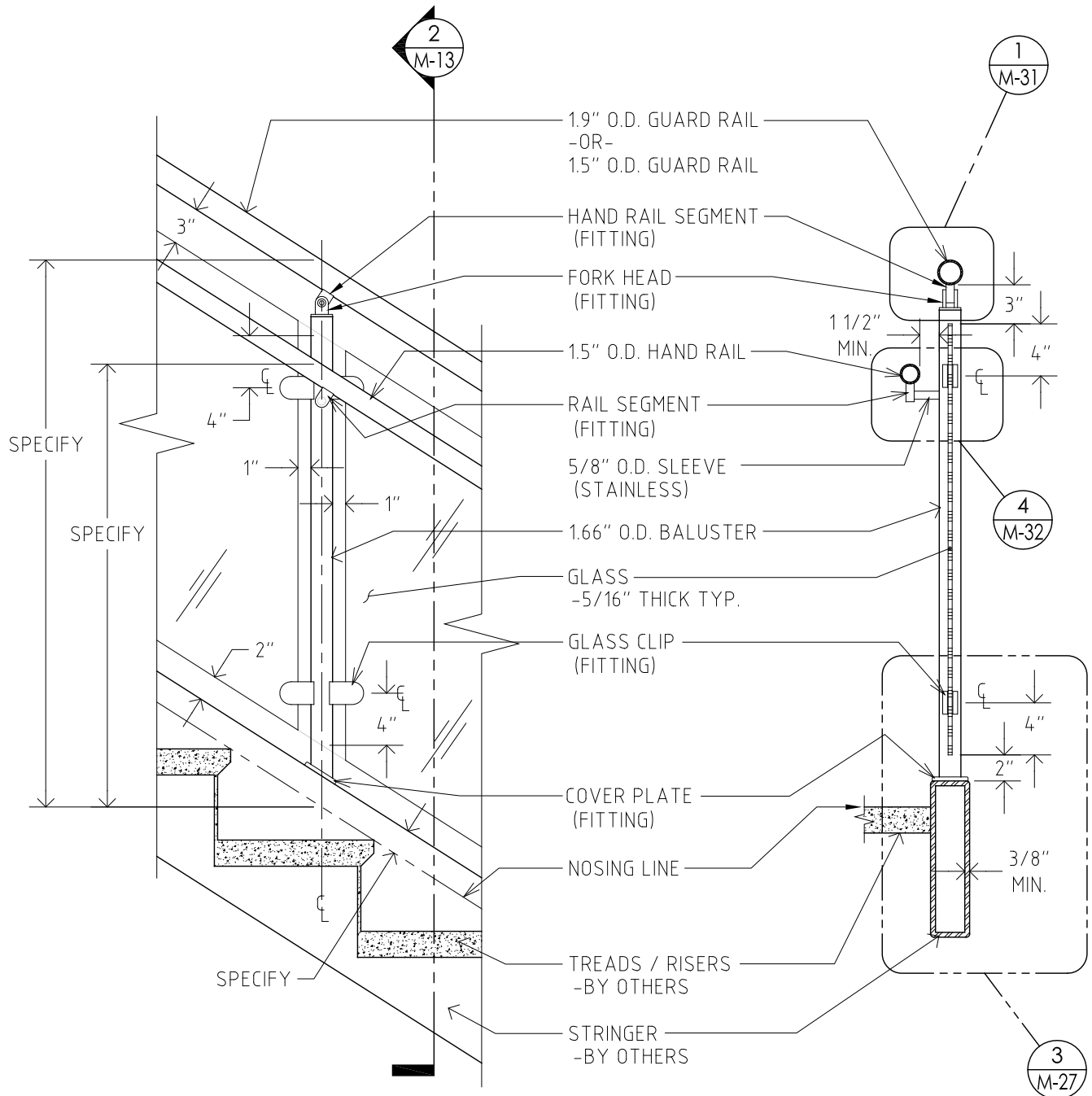
1 M-12 DETAIL ELEVATION: TOP MOUNT AT LEVEL FLOOR  
SCALE: 1" = 1'-0"

2 M-12 DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1 7/8" O.D.) OR 1.5" O.D. (1 1/2") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1 11/16") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-13

DETAIL ELEVATION: TOP MOUNT ON STAIR RUN  
SCALE: 1" = 1'-0"

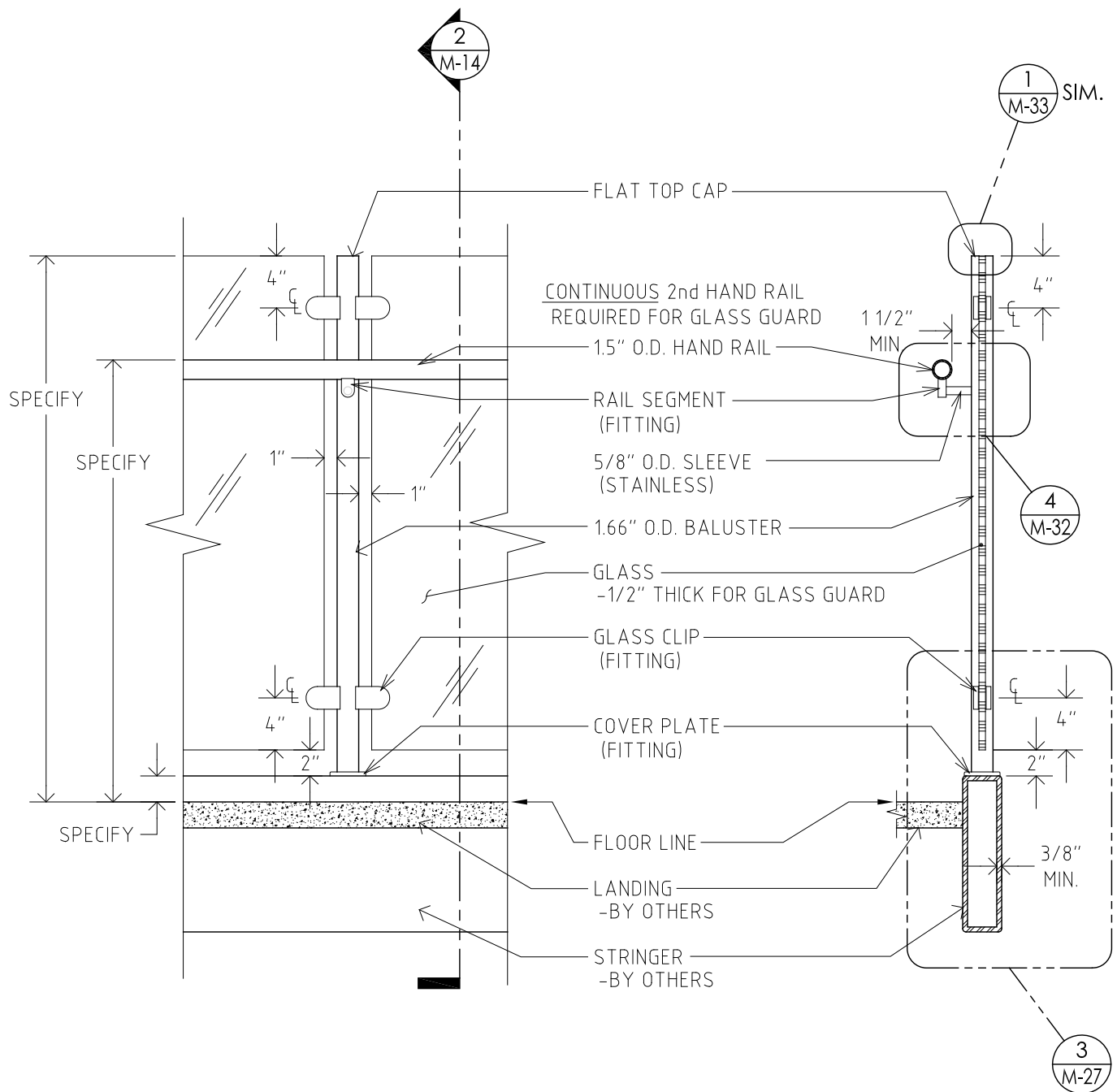
2  
M-13

DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. ( $1\frac{7}{8}$ " O.D.) OR 1.5" O.D. ( $1\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. ( $1\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-14

DETAIL ELEVATION: TOP MOUNT AT LEVEL FLOOR  
SCALE: 1" = 1'-0"

GLASS GUARD

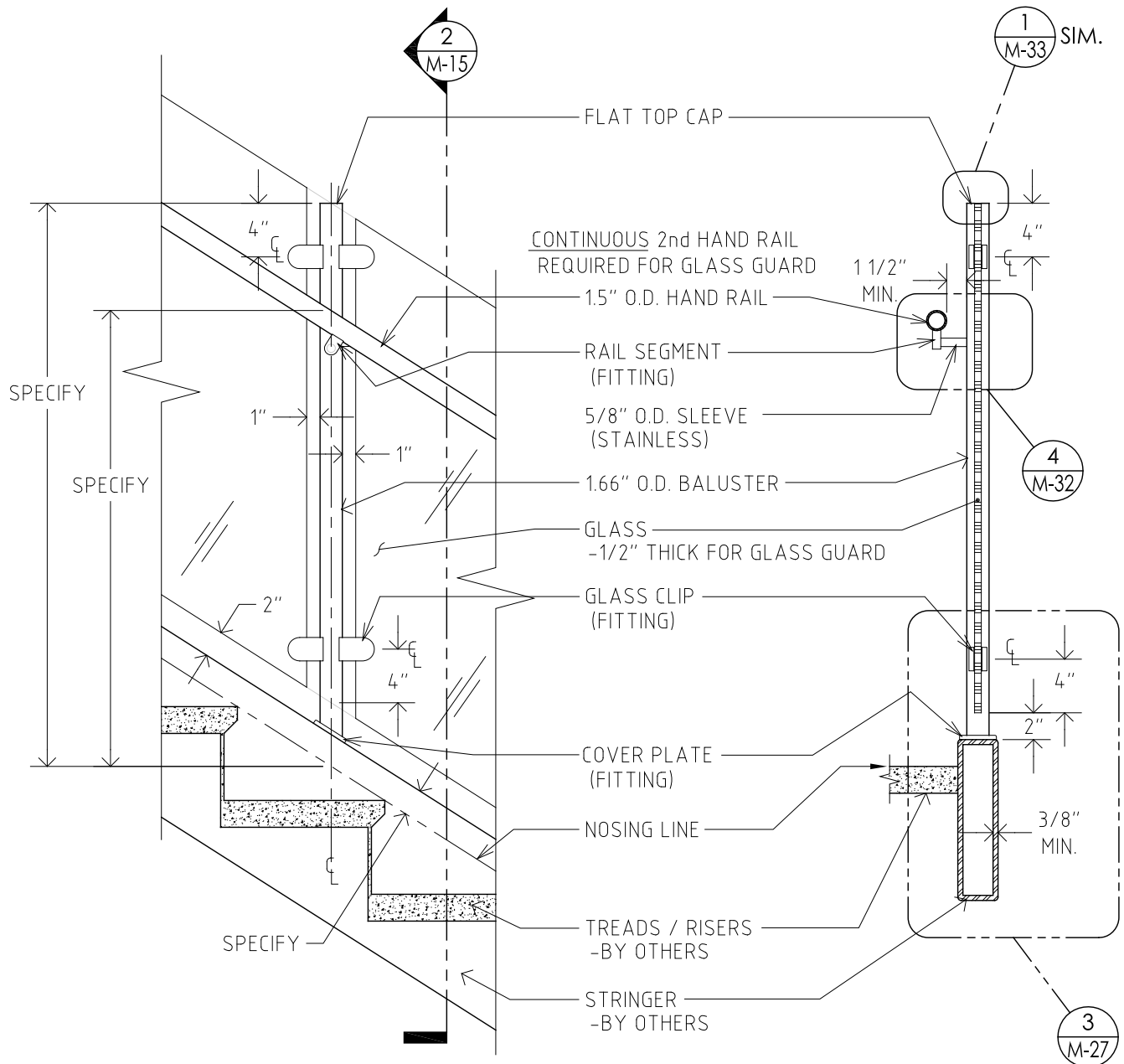
2  
M-14

DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. ( $1\frac{7}{8}$ " O.D.) OR 1.5" O.D. ( $1\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. ( $1\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-15

DETAIL ELEVATION: TOP MOUNT ON STAIR RUN  
SCALE: 1" = 1'-0"

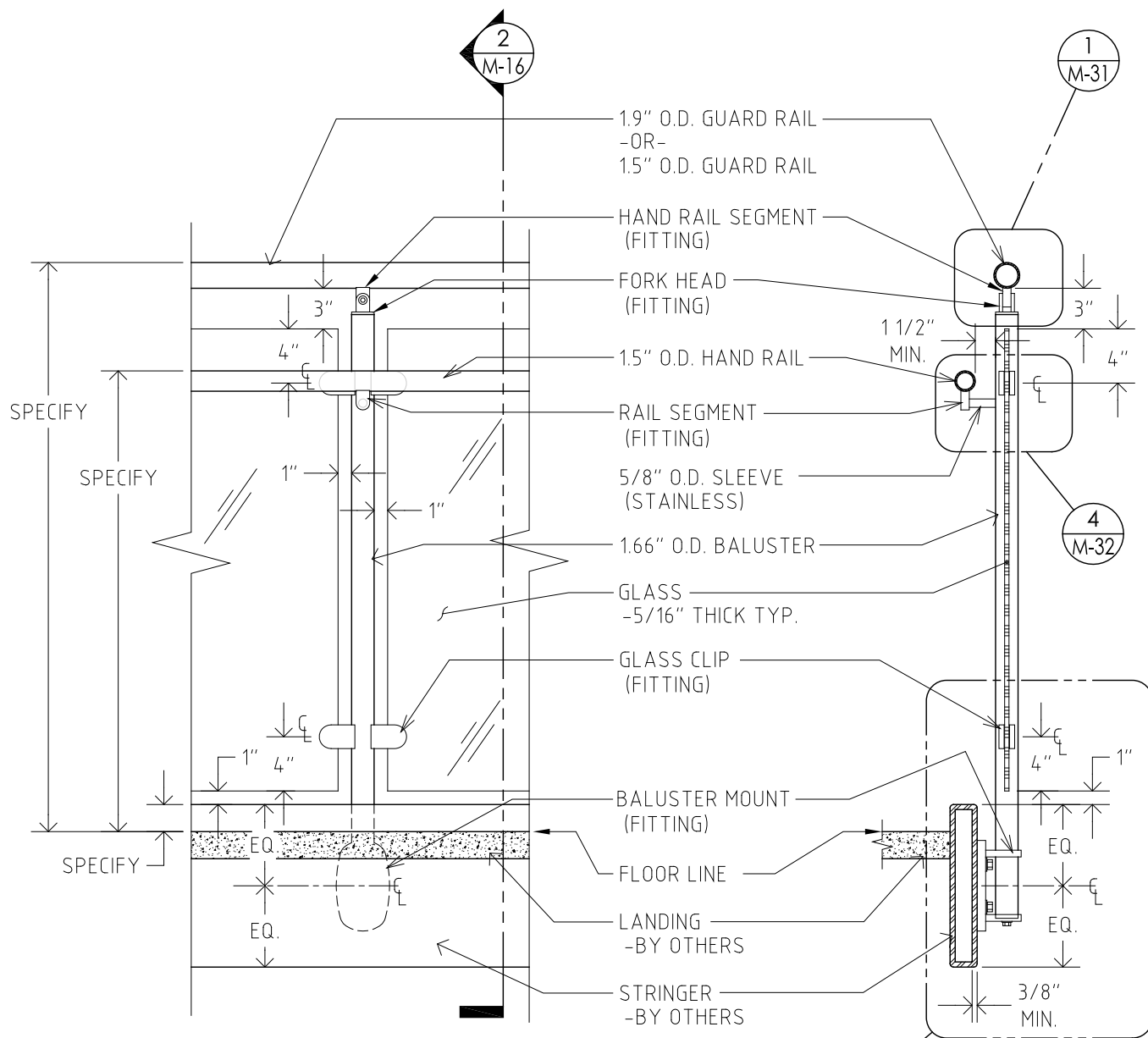
2  
M-15

DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1 M-16 DETAIL ELEVATION: SIDE MOUNT AT LEVEL FLOOR  
SCALE: 1" = 1'-0"

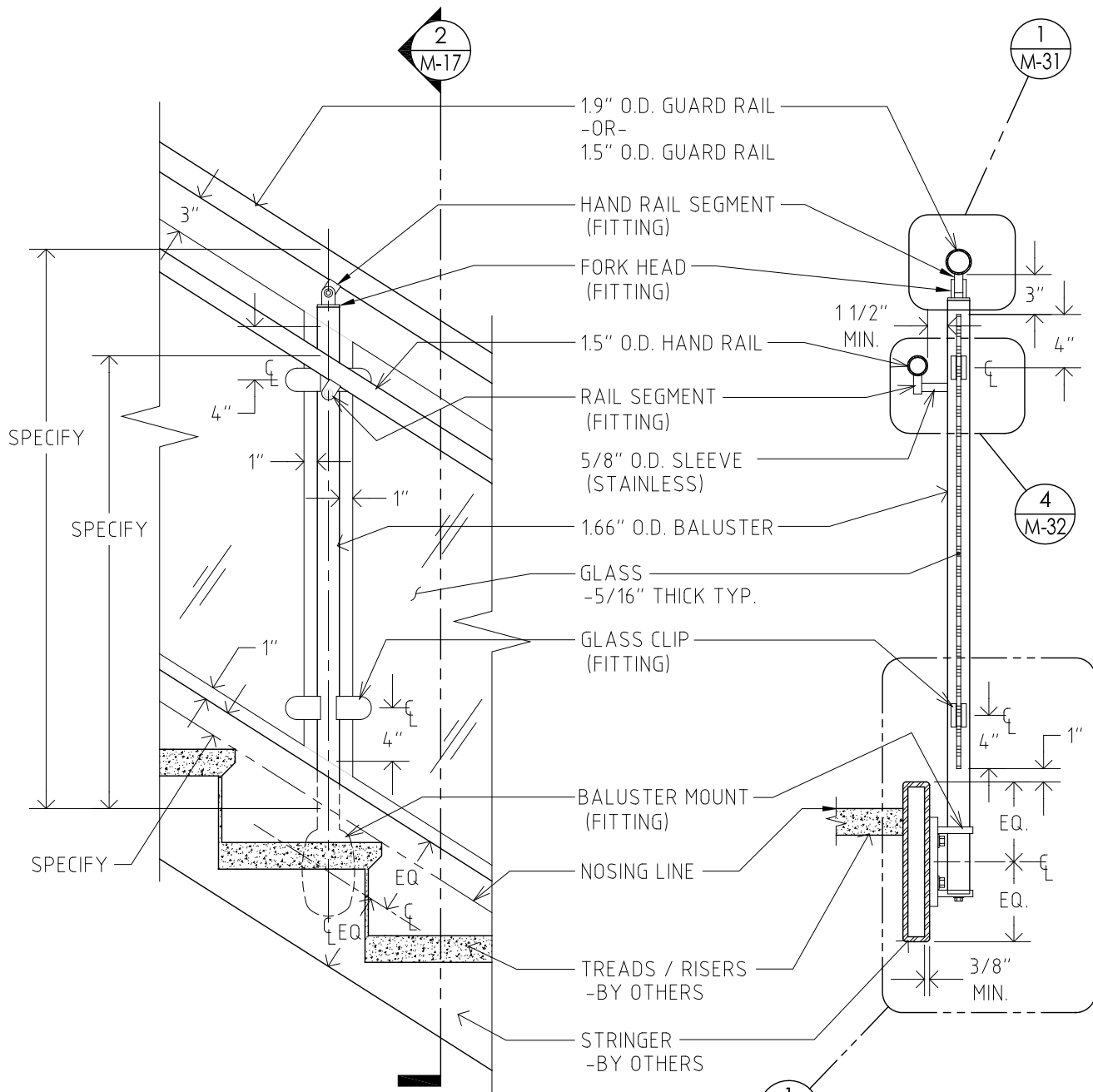
1 M-28 2 M-16 DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTE:  
MAXIMUM LENGTH OF BALUSTER: 54" [1372mm]

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1 <sup>7</sup>/<sub>8</sub>" O.D.) OR 1.5" O.D. (1 <sup>1</sup>/<sub>2</sub>") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1 <sup>11</sup>/<sub>16</sub>") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-17

DETAIL ELEVATION: SIDE MOUNT ON STAIR RUN  
SCALE: 1" = 1'-0"

2  
M-17

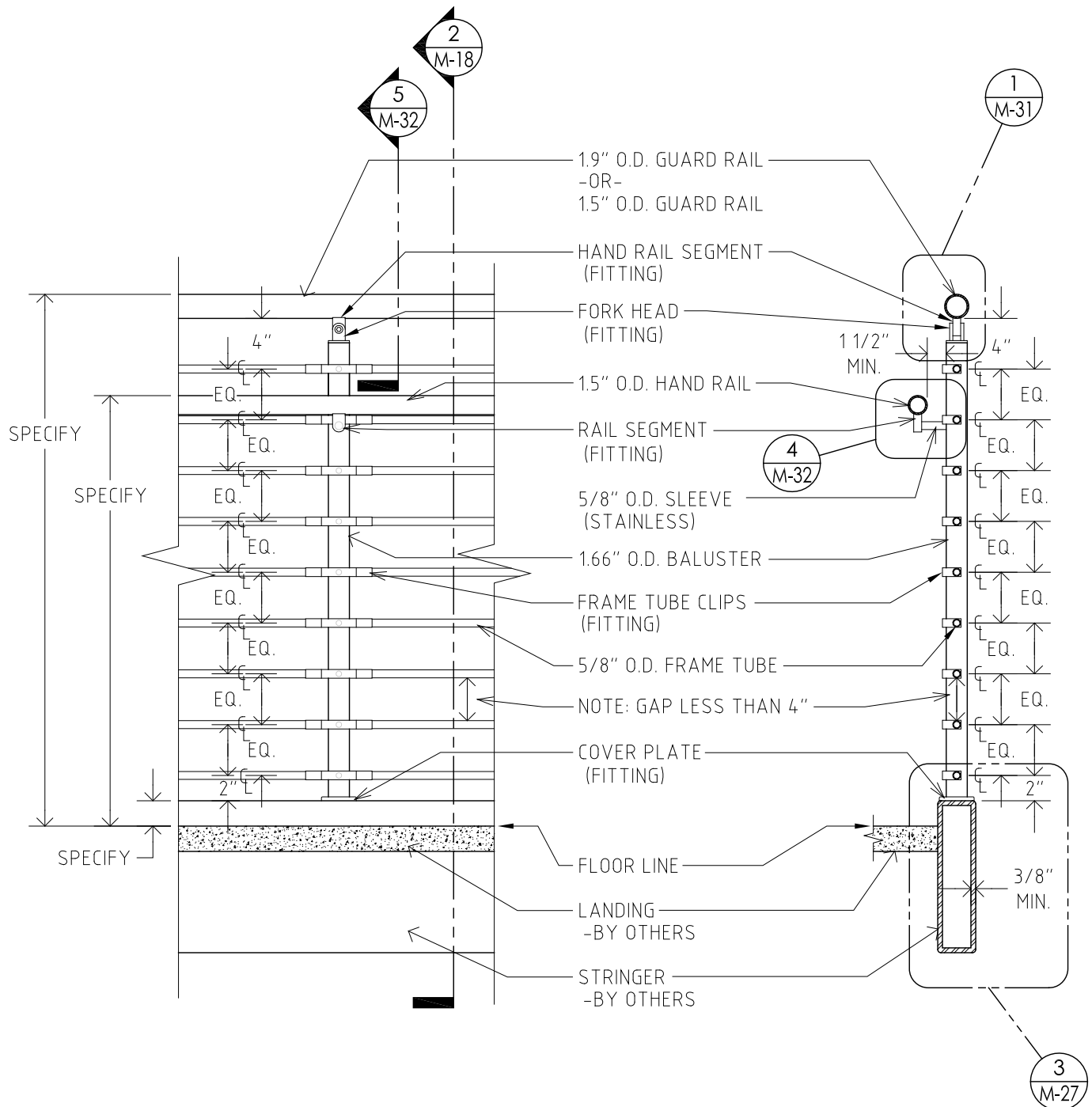
DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTE:  
MAXIMUM LENGTH OF BALUSTER: 54" [1372mm]

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1 M-18 DETAIL ELEVATION: TOP MOUNT AT LEVEL FLOOR  
SCALE: 1" = 1'-0"

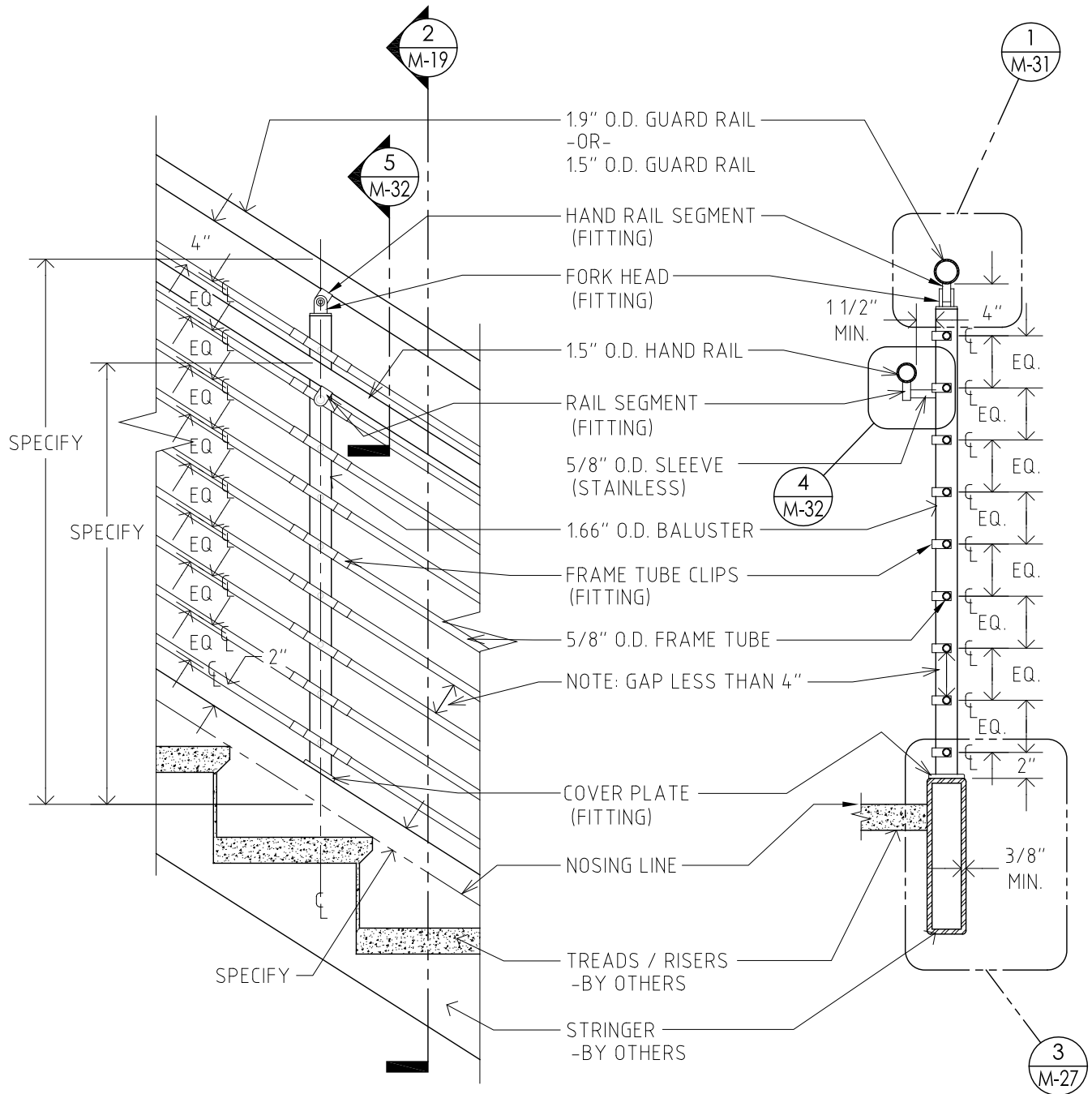
2 M-18 DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ " WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

FRAME TUBES IN HARD DRAWN STAINLESS STEEL - 15mm O.D. ( $\frac{5}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-19  
DETAIL ELEVATION: TOP MOUNT ON STAIR RUN  
SCALE: 1" = 1'-0"

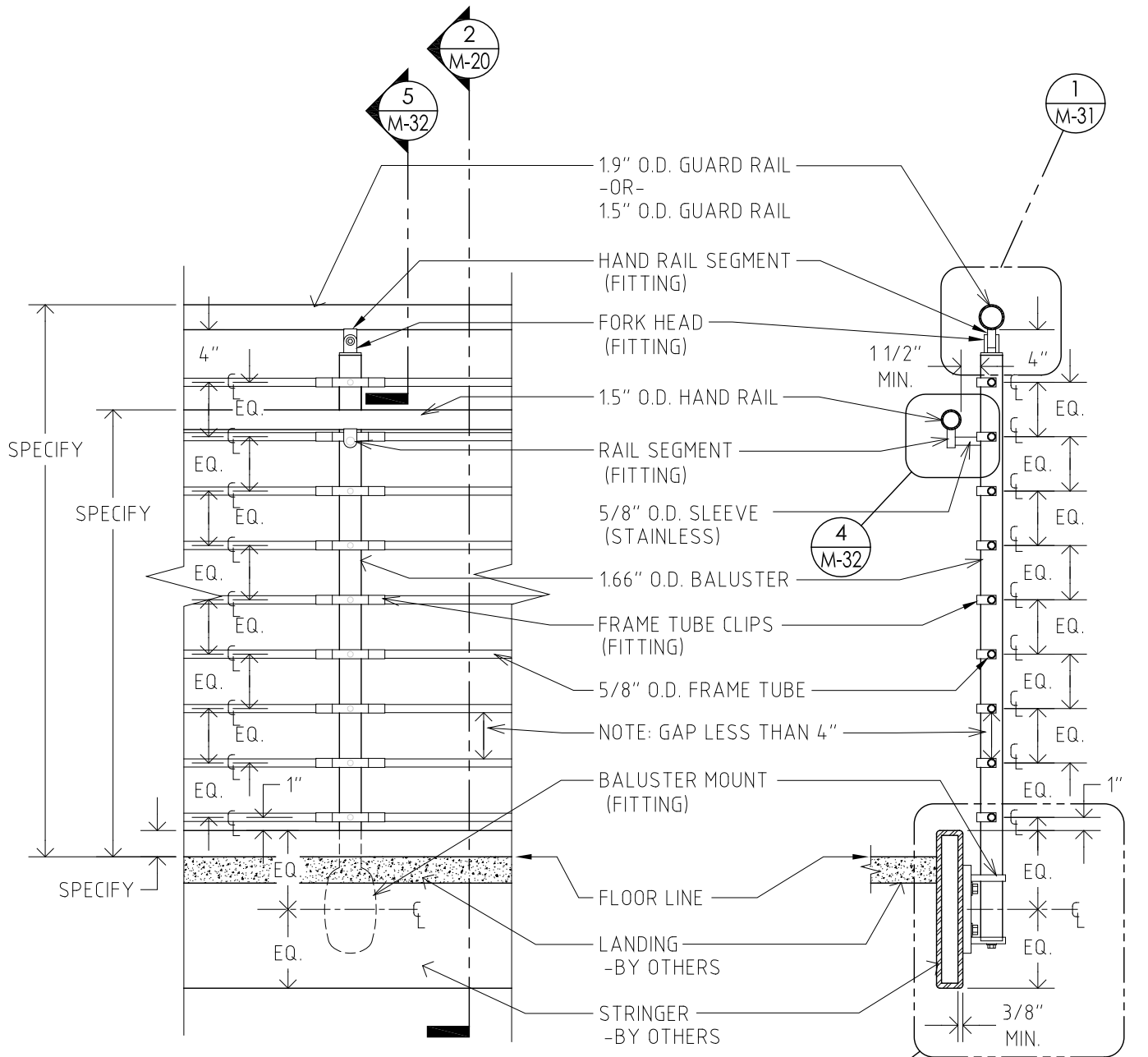
2  
M-19  
DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. ( $1\frac{7}{8}$ " O.D.) OR 1.5" O.D. ( $1\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. ( $1\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

FRAME TUBES IN HARD DRAWN STAINLESS STEEL - 15mm O.D. ( $\frac{5}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-20

DETAIL ELEVATION: SIDE MOUNT AT LEVEL FLOOR  
SCALE: 1" = 1'-0"

1  
M-28

2  
M-20

DETAIL SECTION  
SCALE: 1" = 1'-0"

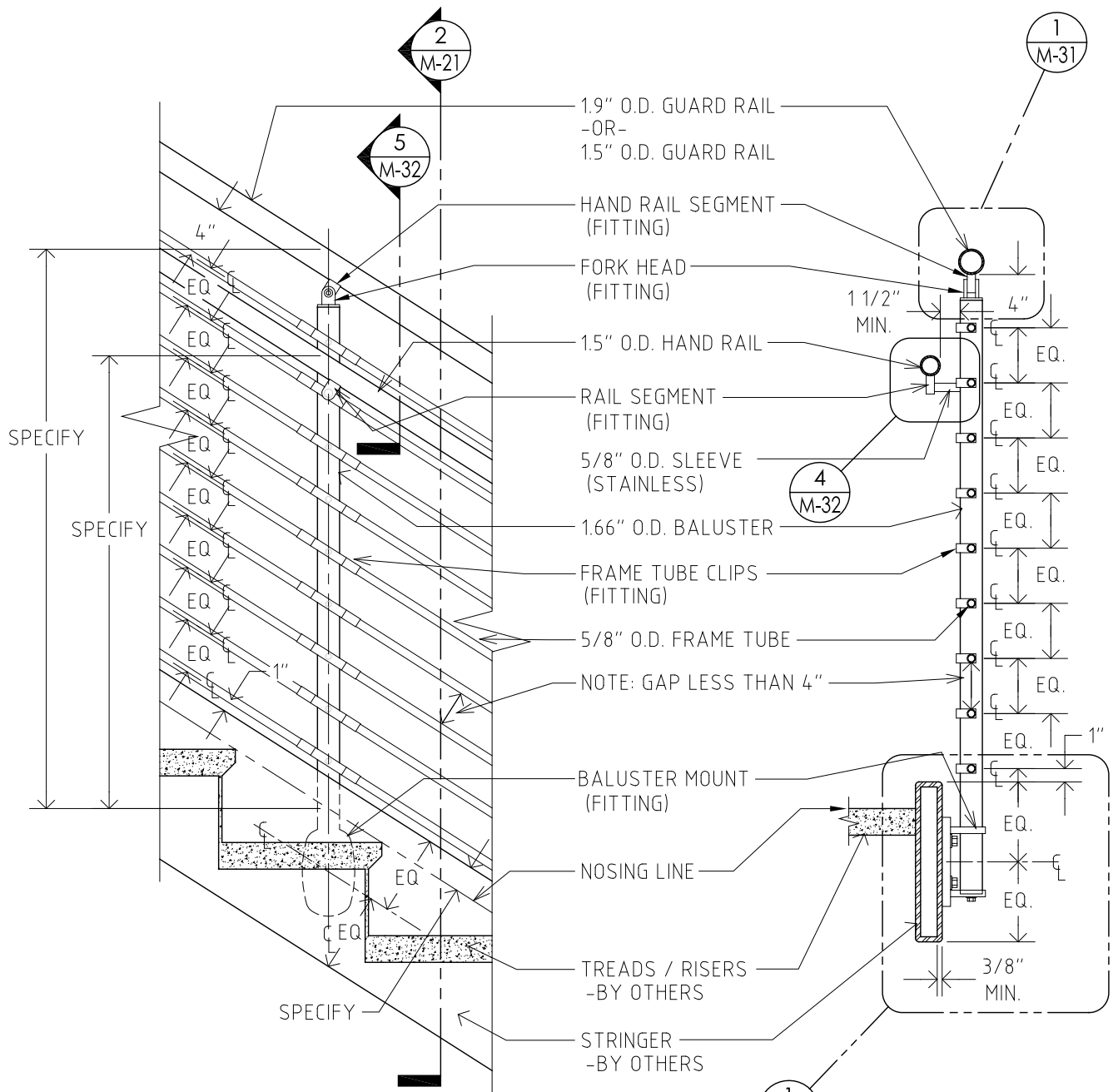
NOTE:  
MAXIMUM LENGTH OF BALUSTER: 54" [1372mm]

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

FRAME TUBES IN HARD DRAWN STAINLESS STEEL - 15mm O.D. ( $\frac{5}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-21

DETAIL ELEVATION: SIDE MOUNT ON STAIR RUN  
SCALE: 1" = 1'-0"

2  
M-21

DETAIL SECTION  
SCALE: 1" = 1'-0"

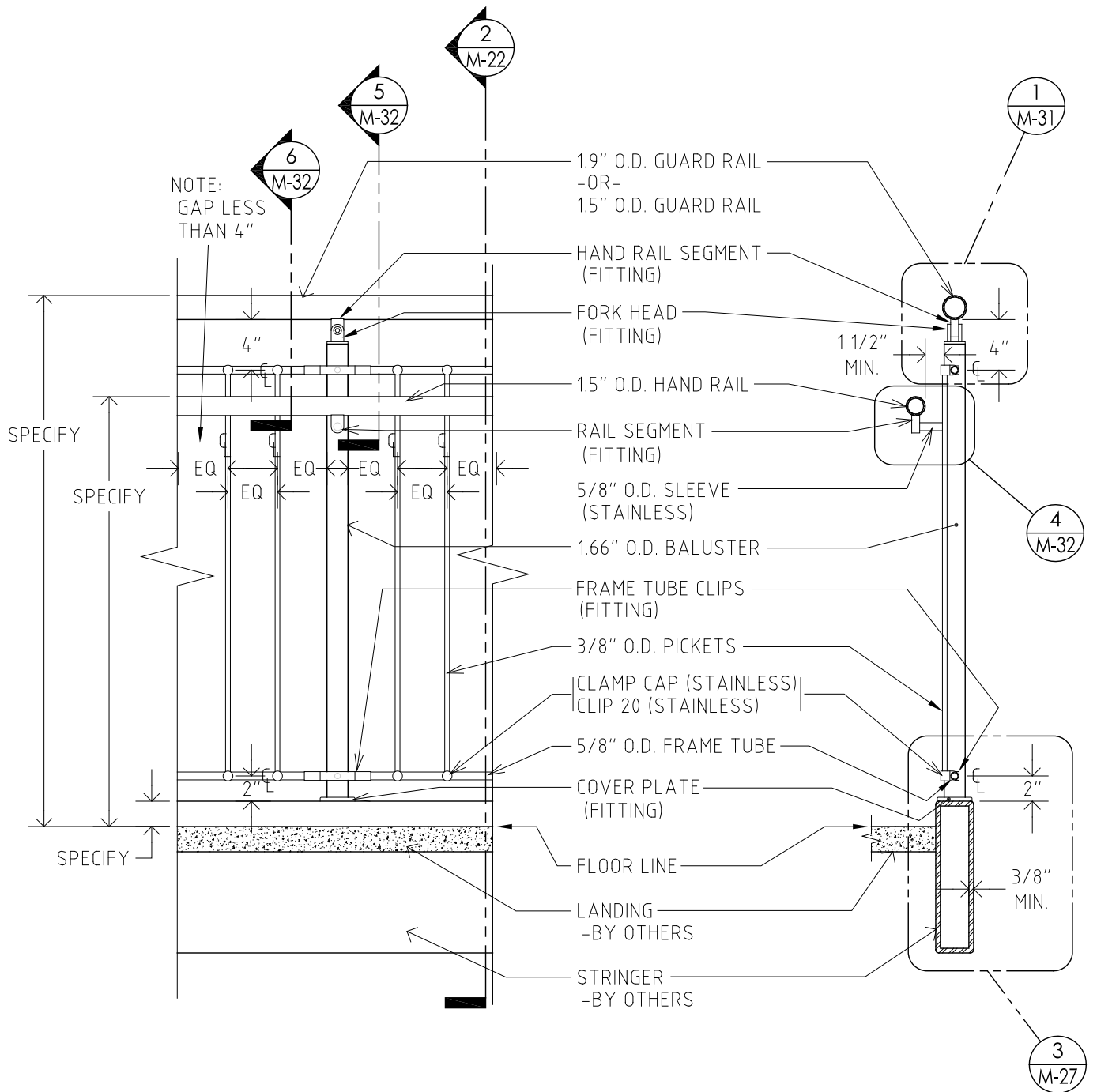
NOTE:  
MAXIMUM LENGTH OF BALUSTER: 54" [1372mm]

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

FRAME TUBES IN HARD DRAWN STAINLESS STEEL - 15mm O.D. ( $\frac{5}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-22

DETAIL ELEVATION: TOP MOUNT AT LEVEL FLOOR  
SCALE: 1" = 1'-0"

2  
M-22

DETAIL SECTION  
SCALE: 1" = 1'-0"

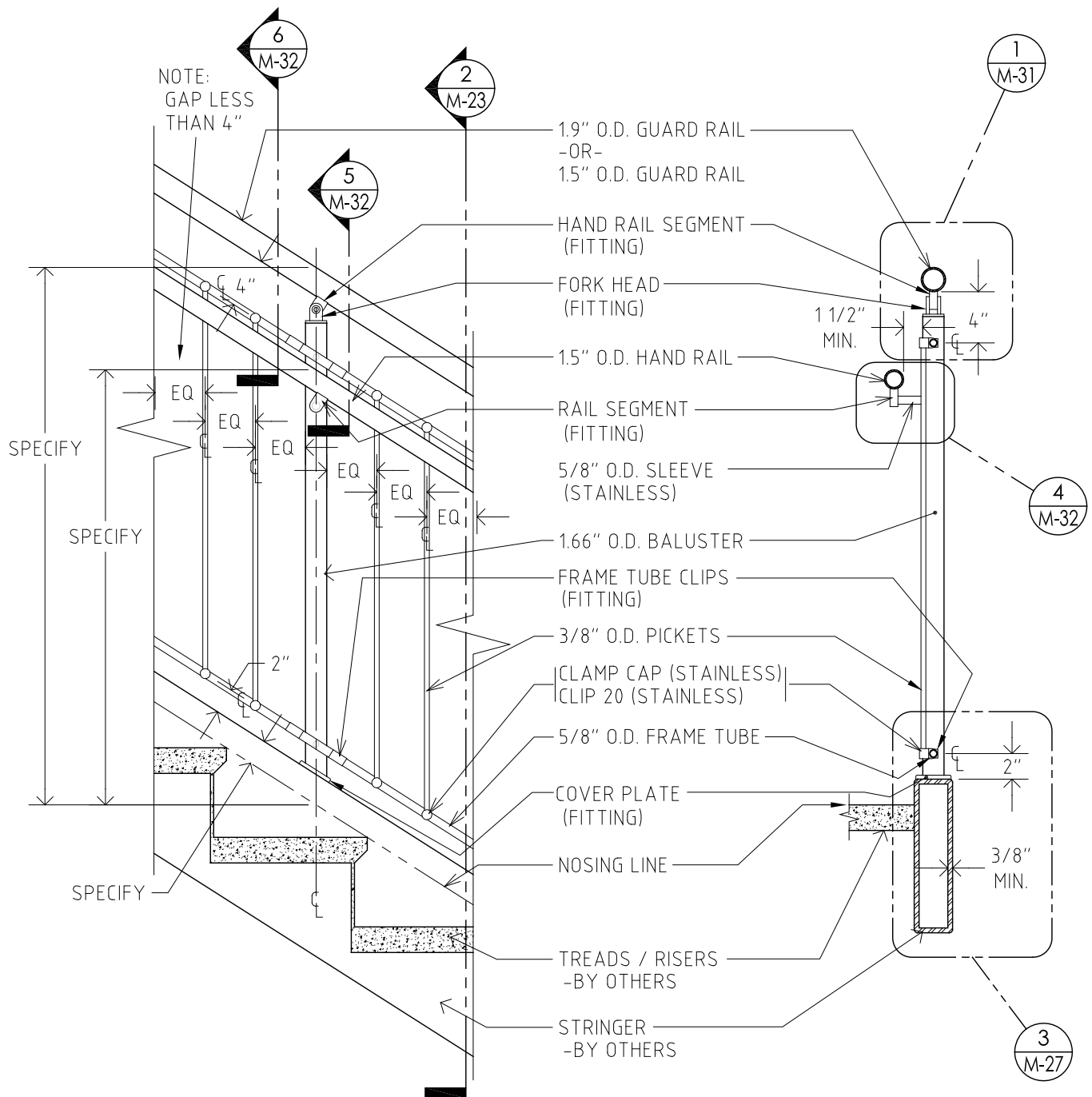
NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

FRAME TUBES IN HARD DRAWN STAINLESS STEEL - 15mm O.D. ( $\frac{5}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

PICKET TUBES IN 304 STAINLESS STEEL - 10mm O.D. ( $\frac{3}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1 DETAIL ELEVATION: TOP MOUNT ON STAIR RUN  
M-23 SCALE: 1" = 1'-0"

2 DETAIL SECTION  
M-23 SCALE: 1" = 1'-0"

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

FRAME TUBES IN HARD DRAWN STAINLESS STEEL - 15mm O.D. ( $\frac{5}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

PICKET TUBES IN 304 STAINLESS STEEL - 10mm O.D. ( $\frac{3}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



SYSTEM: MODESTO

DETAIL ELEVATION & SECTION

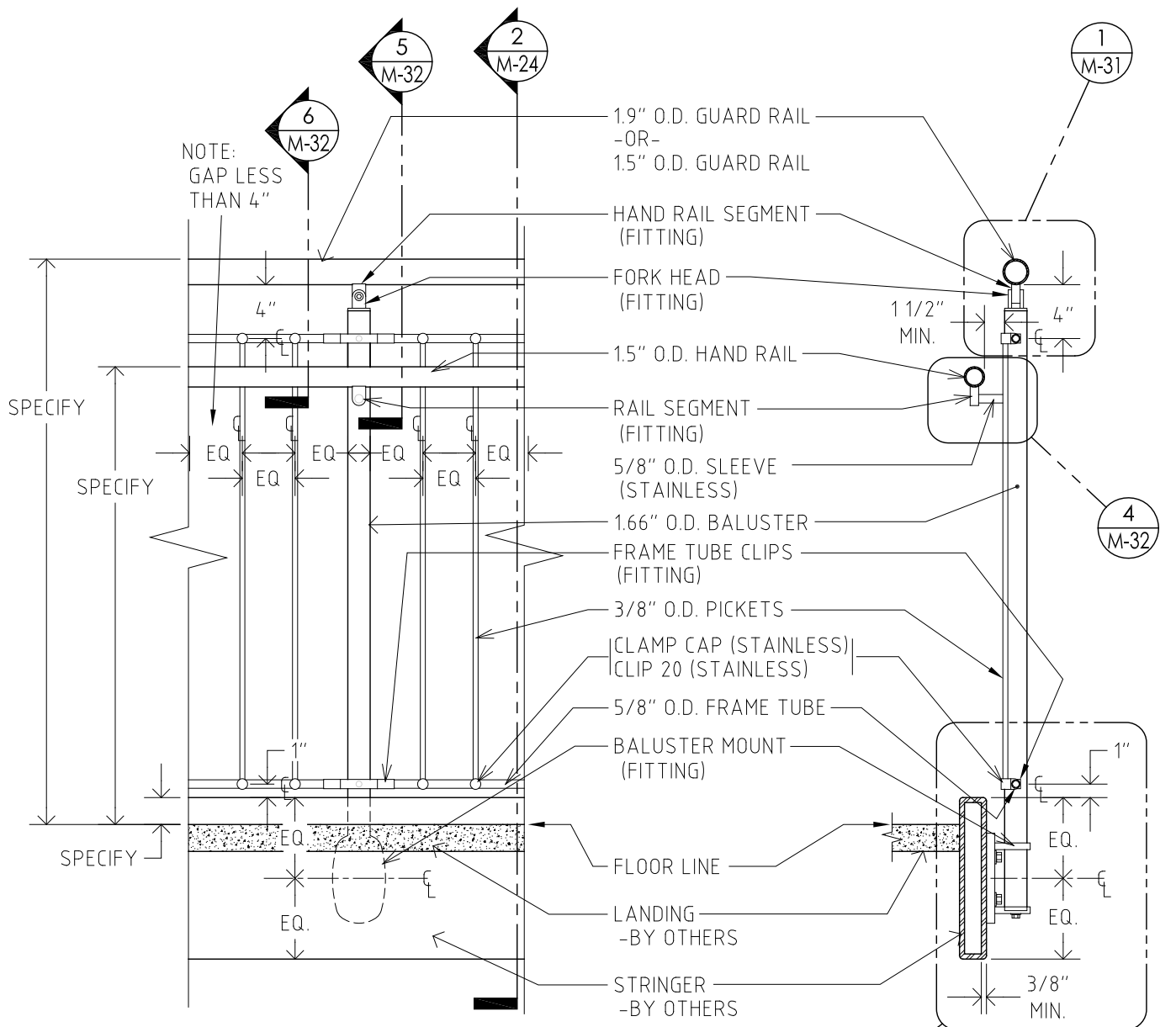
1" = 1'-0" (8.5 x 11)

TOP MOUNT RAILINGS - PICKETS

REVISION 2016-05

RAILING RUN AT STAIRS

SHEET M-23 of 41



1 M-24 DETAIL ELEVATION: SIDE MOUNT AT LEVEL FLOOR  
SCALE: 1" = 1'-0"

1 M-28 2 M-24 DETAIL SECTION  
SCALE: 1" = 1'-0"

NOTE:  
MAXIMUM LENGTH OF BALUSTER: 54" [1372mm]

**NOTES:**

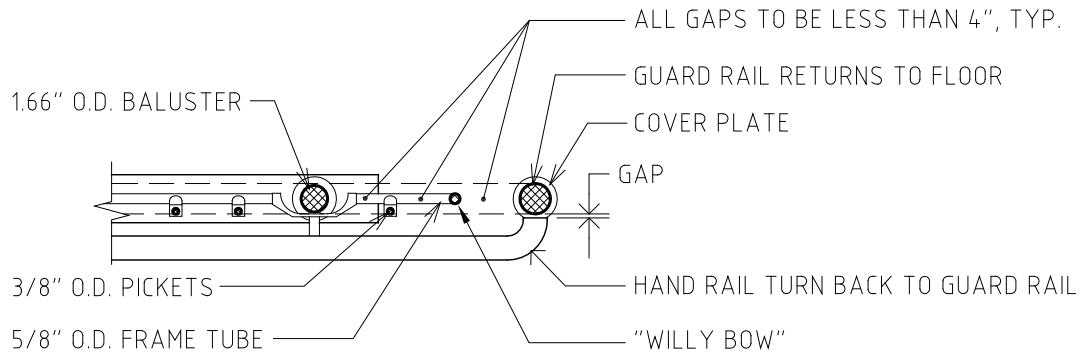
HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

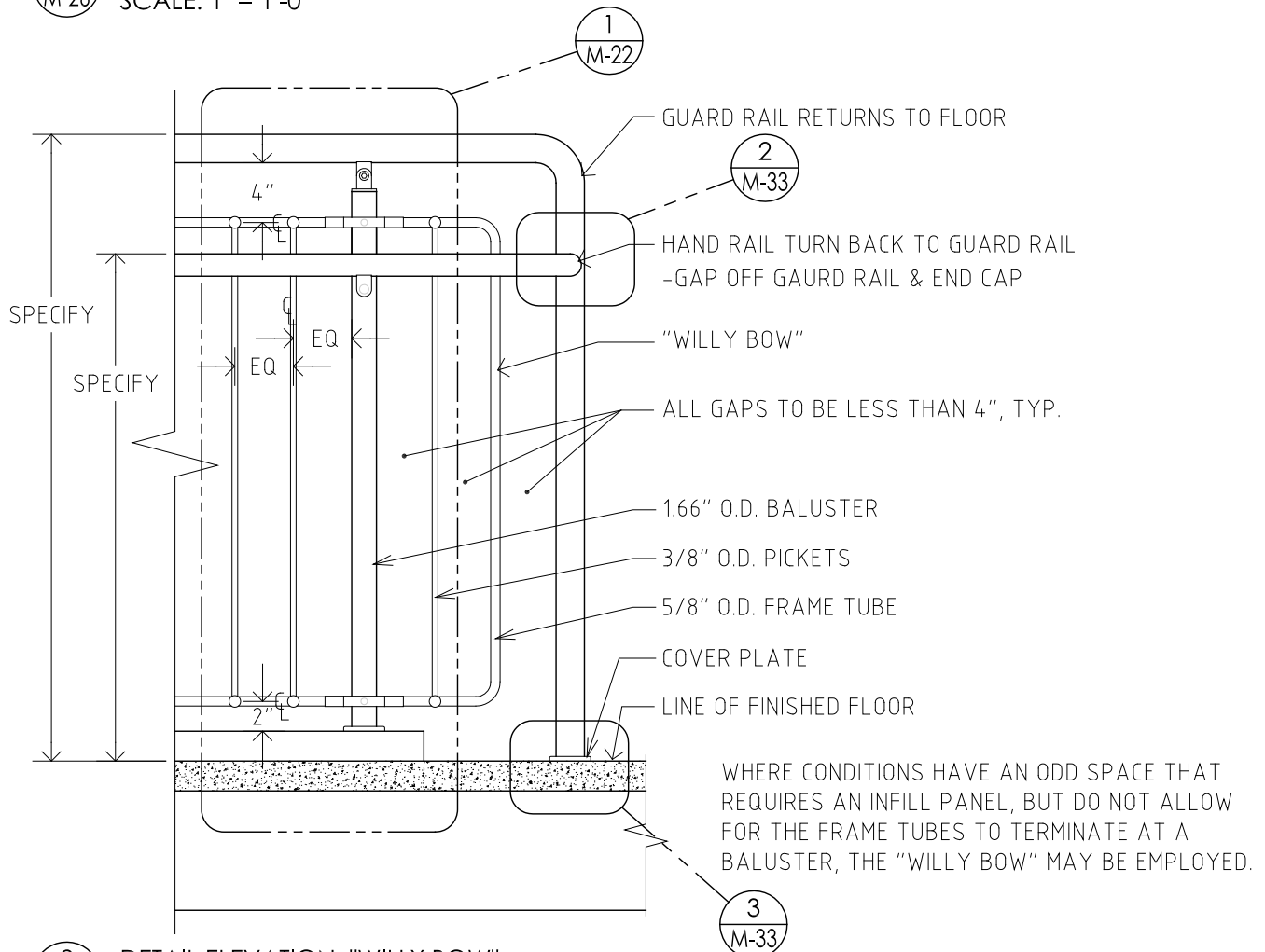
FRAME TUBES IN HARD DRAWN STAINLESS STEEL - 15mm O.D. ( $\frac{5}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

PICKET TUBES IN 304 STAINLESS STEEL - 10mm O.D. ( $\frac{3}{8}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).





1  
M-26  
DETAIL PLAN: "WILLY BOW"  
SCALE: 1" = 1'-0"



2  
M-26  
DETAIL ELEVATION: "WILLY BOW"  
SCALE: 1" = 1'-0"

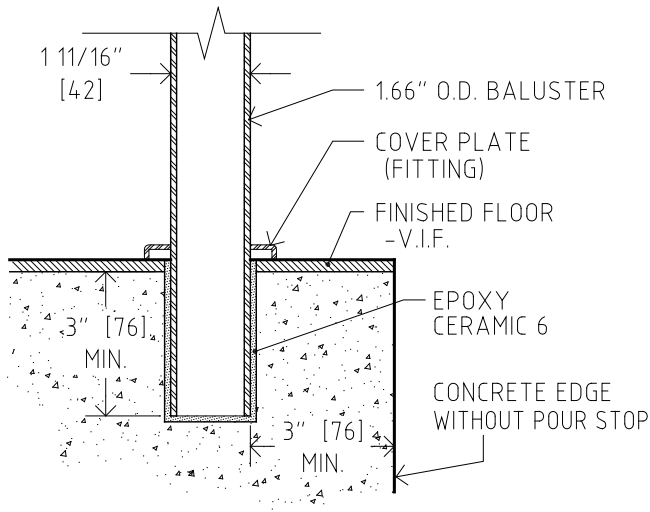
#### NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. ( $1\frac{7}{8}$ " O.D.) OR 1.5" O.D. ( $1\frac{1}{2}$ " O.D.) WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

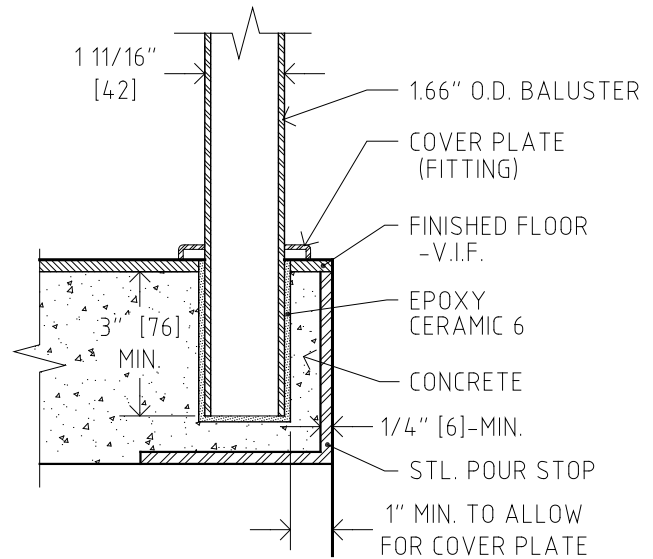
BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. ( $1\frac{11}{16}$ " O.D.) WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

FRAME TUBES IN HARD DRAWN STAINLESS STEEL - 15mm O.D. ( $\frac{5}{8}$ " O.D.) WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

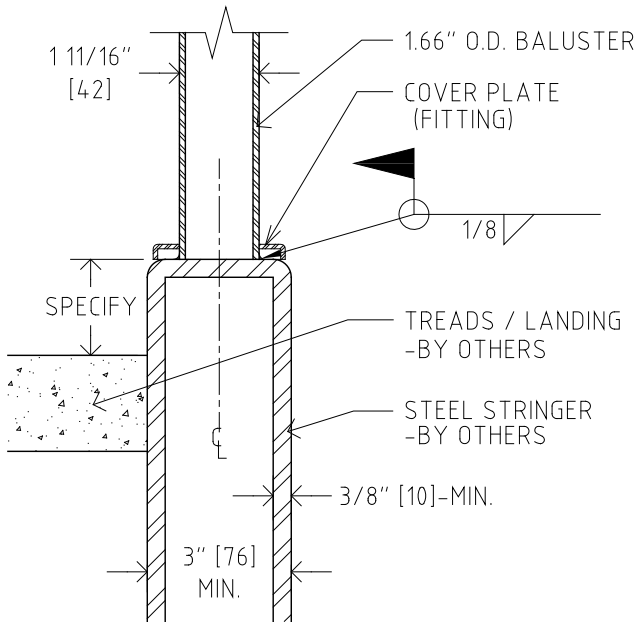
PICKET TUBES IN 304 STAINLESS STEEL - 10mm O.D. ( $\frac{3}{8}$ " O.D.) WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



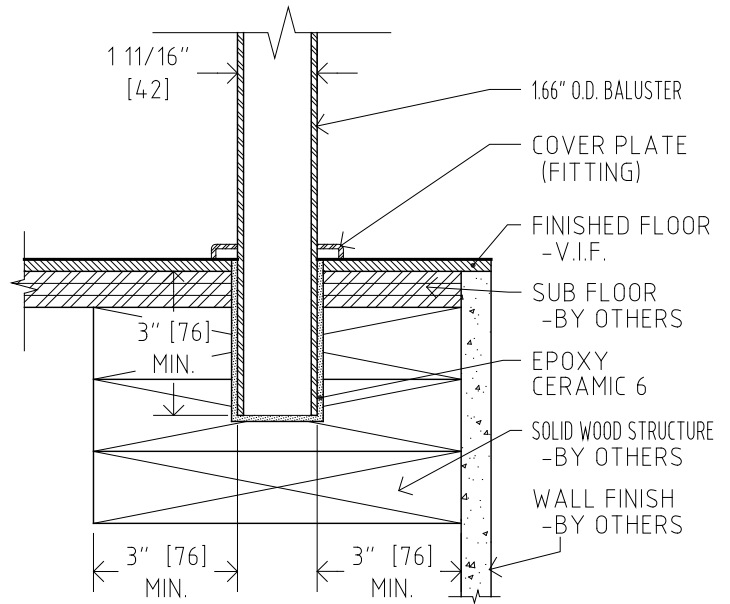
1 DETAIL: BALUSTER AT CONCRETE EDGE  
M-27 SCALE: 3" = 1'-0"



2 DETAIL: BALUSTER, CONCRETE w/ POUR STOP  
M-27 SCALE: 3" = 1'-0"



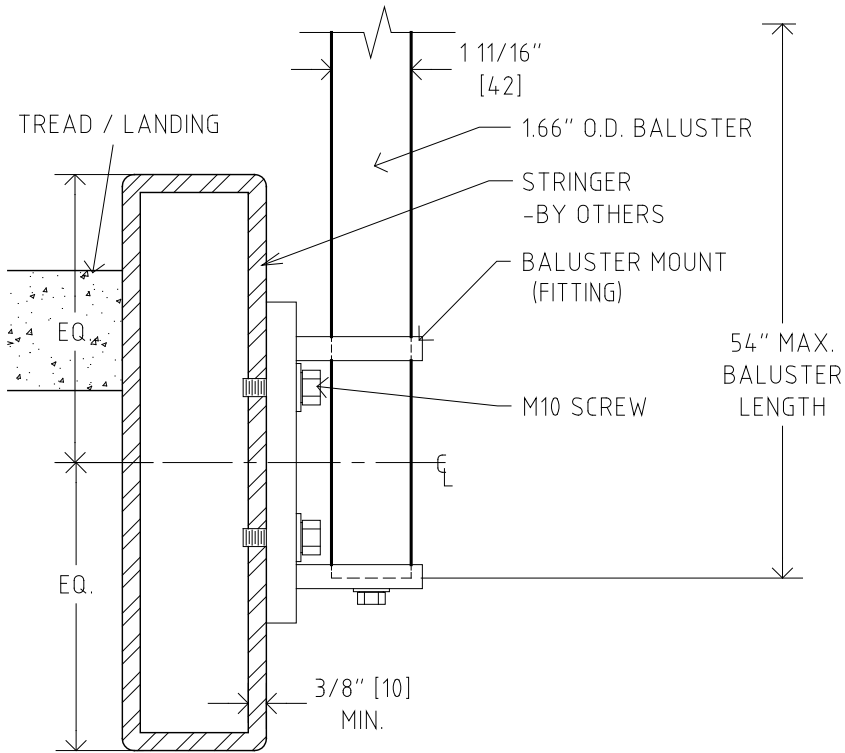
3 DETAIL: BALUSTER ON STEEL STRINGER  
M-27 SCALE: 3" = 1'-0"



4 DETAIL: BALUSTER IN WOOD STRUCTURE  
M-27 SCALE: 3" = 1'-0"

#### NOTES:

FITTINGS IN SOLID CAST ZINC WITH  
POWDER COAT FINISH. ARCHITECT PLEASE  
SELECT FROM STANDARD COLORS.



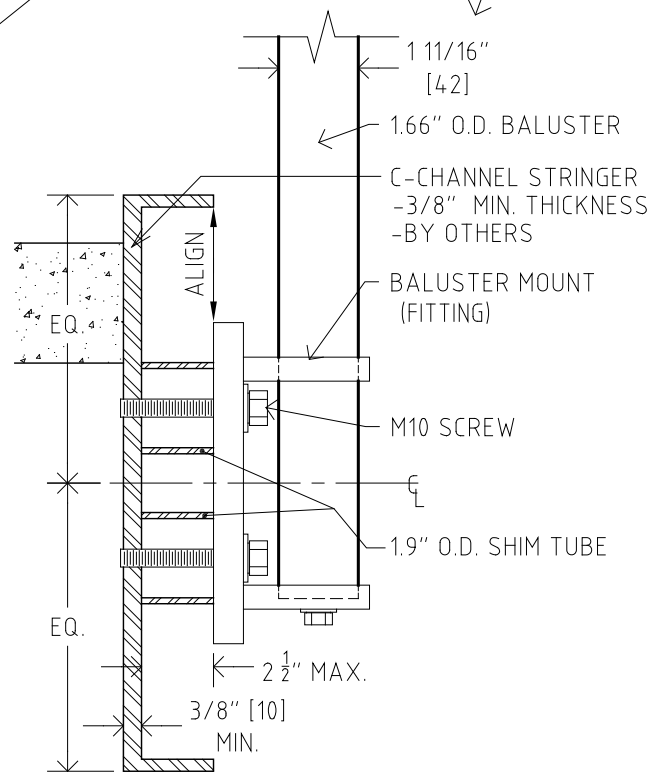
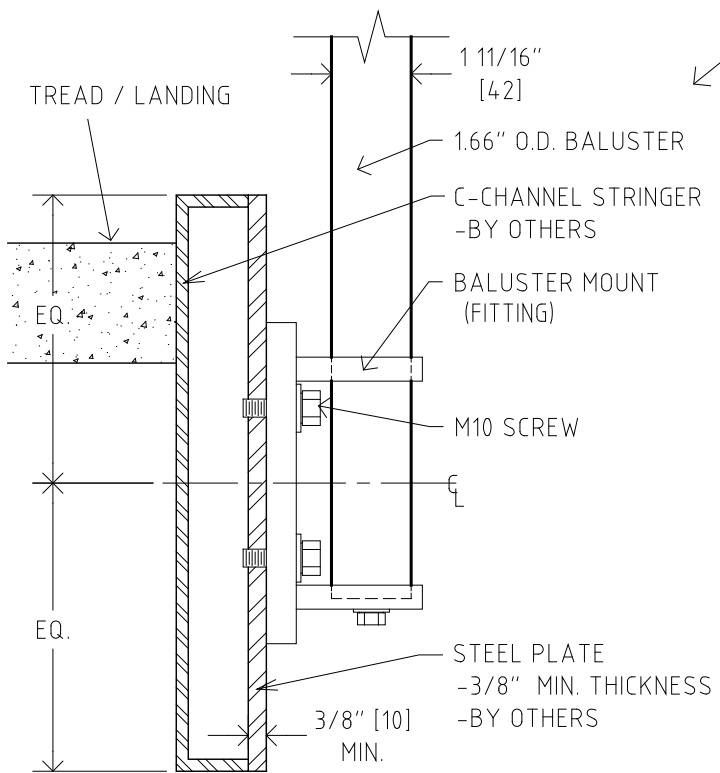
**NOTES:**

FITTINGS IN SOLID CAST ZINC WITH POWDER COAT FINISH. ARCHITECT PLEASE SELECT FROM STANDARD COLORS.

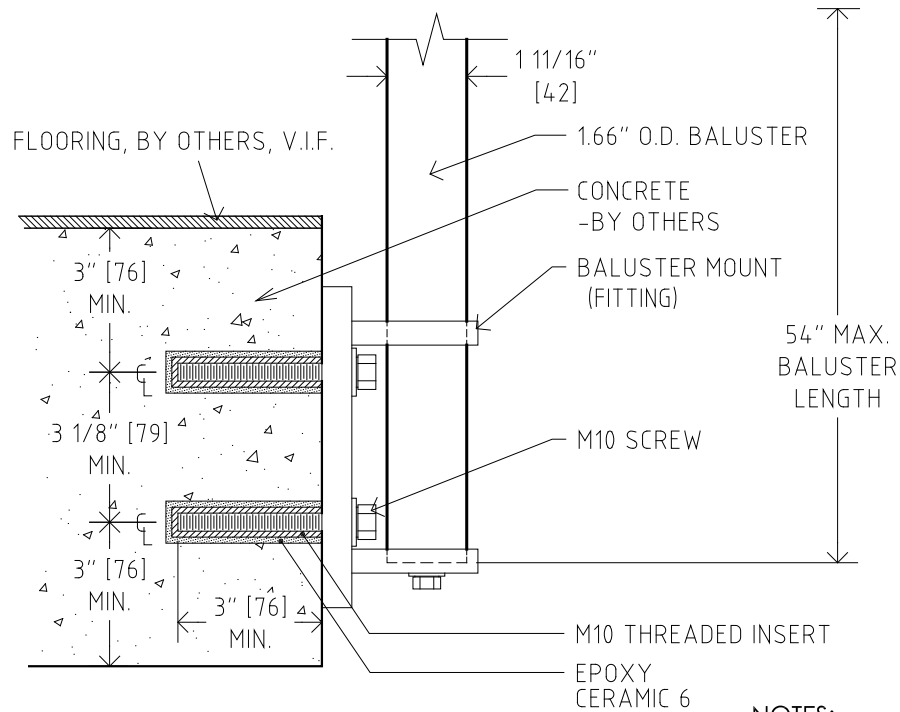
**NOTE:**

WHEN AN OPEN CHANNEL IS THE STRINGER, A PLATE (BY OTHERS) CAN BE USED FOR SIDE MOUNTING (MINIMUM THICKNESS OF PLATE IS  $\frac{3}{8}$ "), OR IN LIEU OF PLATE, SHIM TUBES CAN BE USED.

**1** DETAIL SECTION: SIDE MOUNT AT STEEL TUBE STRINGER  
SCALE: 3" = 1'-0"



**2** DETAIL SECTION: SIDE MOUNT AT STEEL CHANNEL STRINGER  
SCALE: 3" = 1'-0"

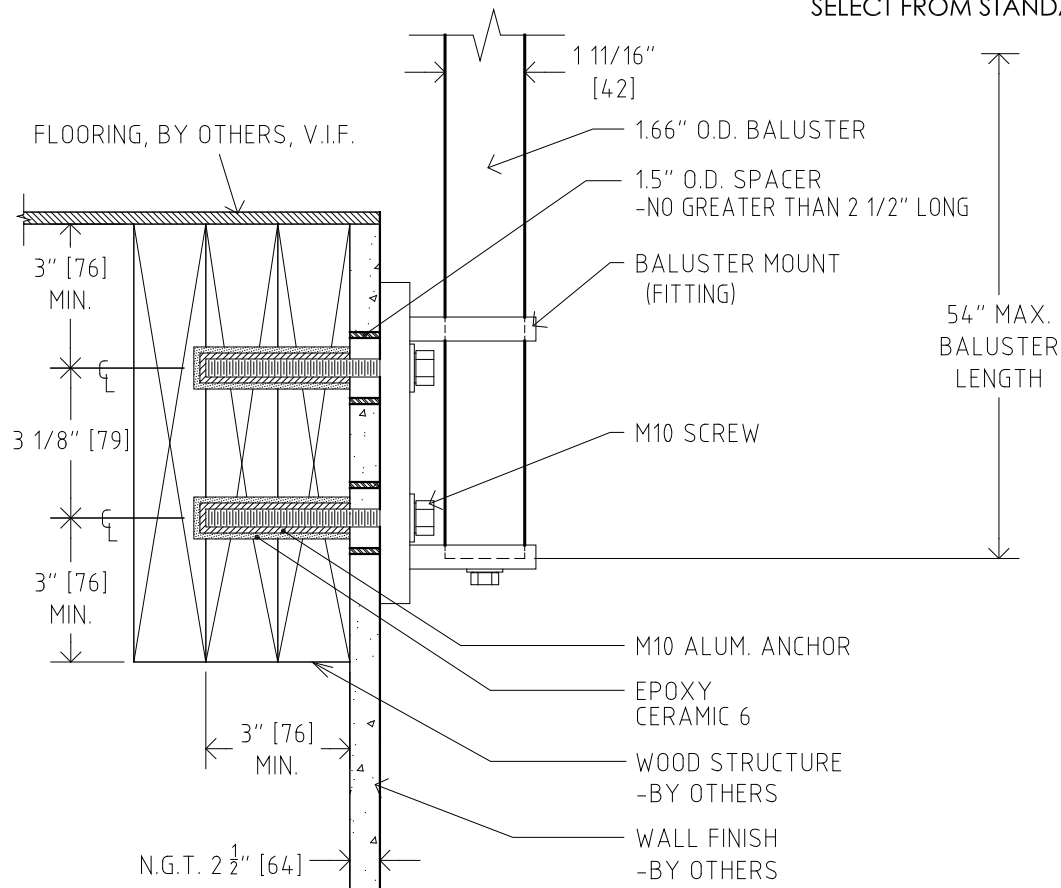


1  
M-29

DETAIL SECTION: SIDE MOUNT INTO CONCRETE  
SCALE: 3" = 1'-0"

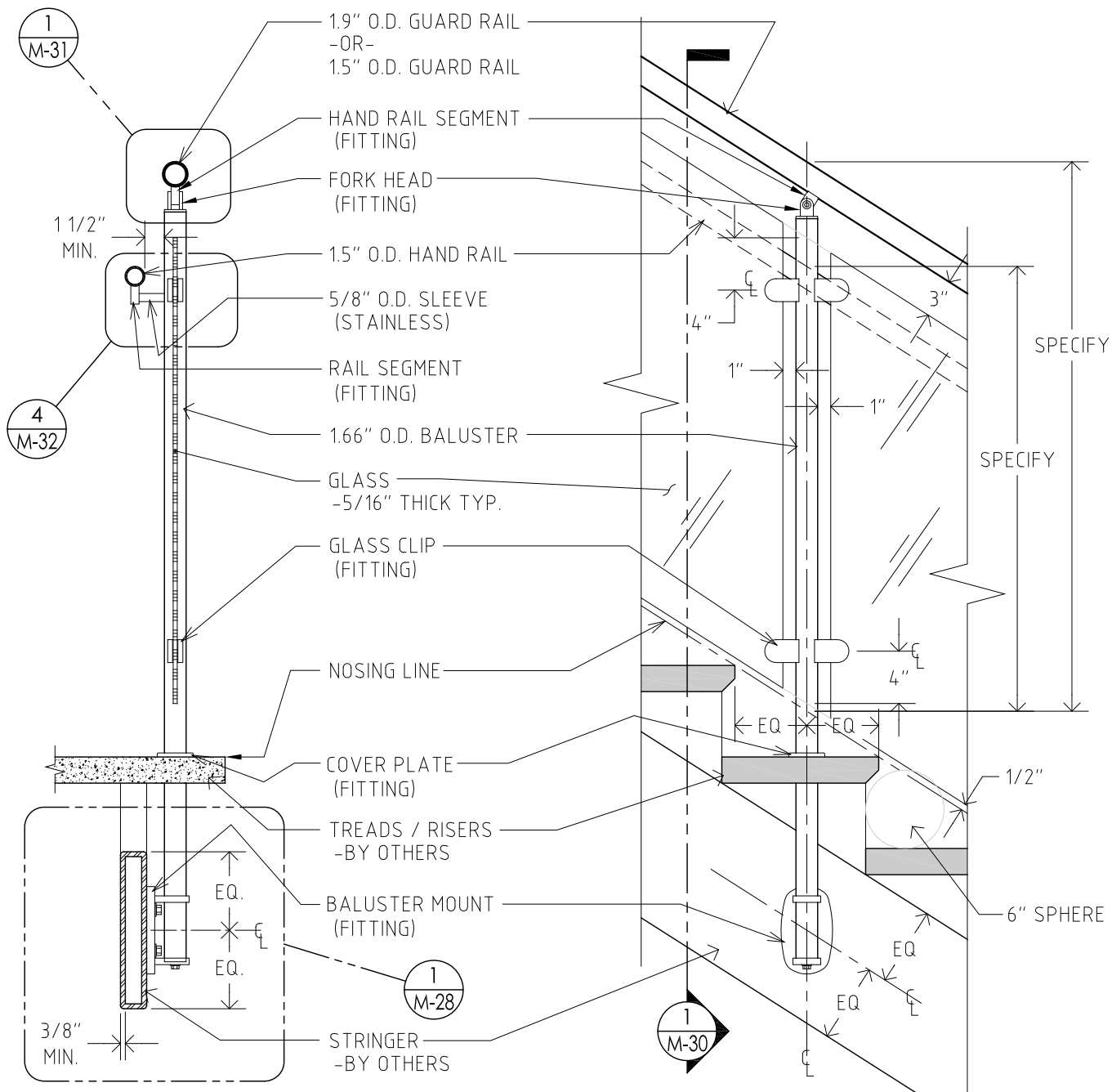
NOTES:

FITTINGS IN SOLID CAST ZINC WITH  
POWDER COAT FINISH. ARCHITECT PLEASE  
SELECT FROM STANDARD COLORS.



2  
M-29

DETAIL SECTION: SIDE MOUNT INTO WOOD STRUCTURE  
SCALE: 3" = 1'-0"



1  
M-30

DETAIL SECTION  
SCALE: 1" = 1'-0"

2  
M-30

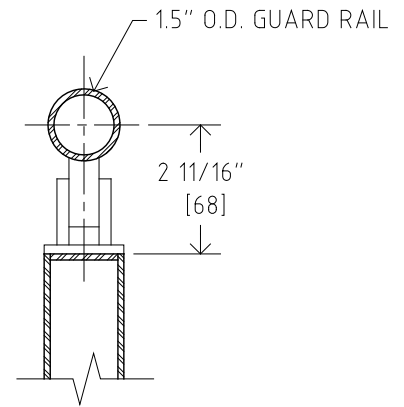
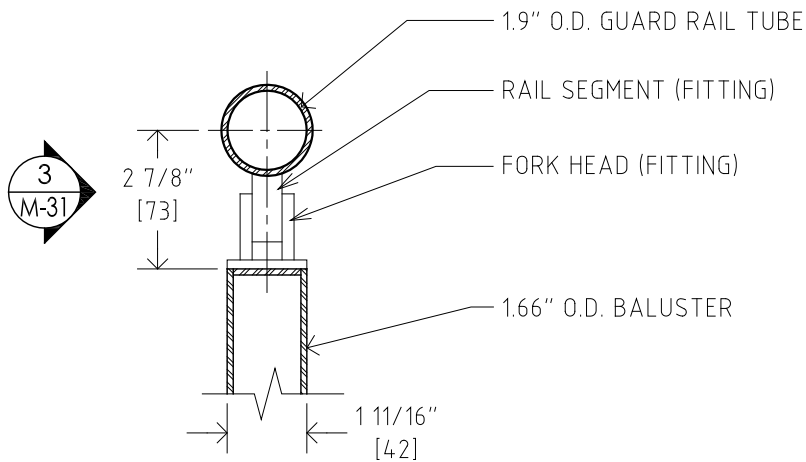
DETAIL ELEVATION: BALUSTER PIERCES TREAD  
SCALE: 1" = 1'-0"

NOTE:  
MAXIMUM LENGTH OF BALUSTER: 54" [1372mm]

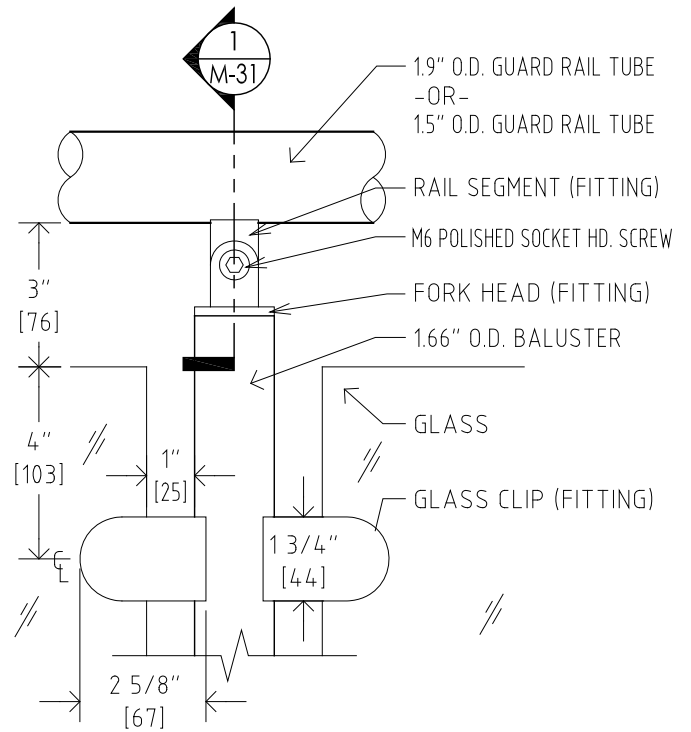
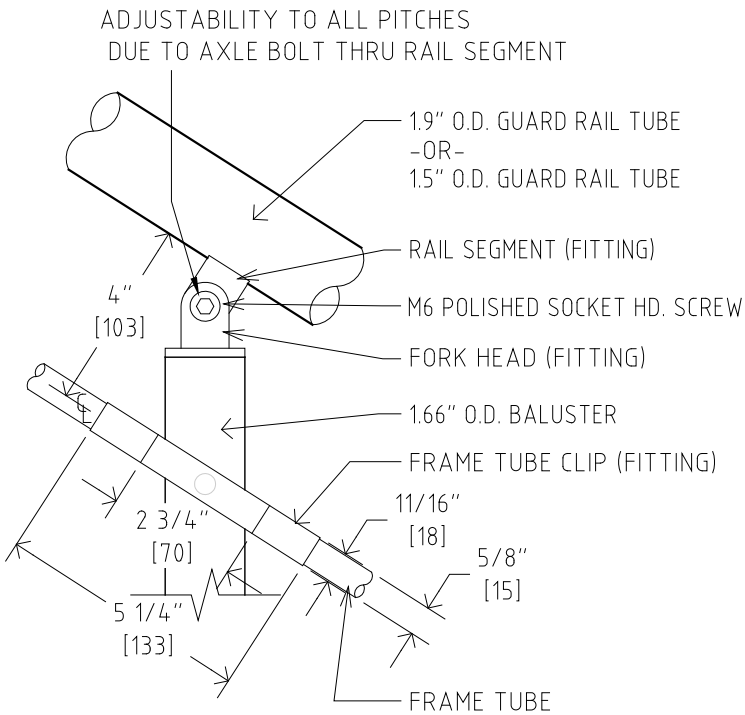
NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1  $\frac{7}{8}$ " O.D.) OR 1.5" O.D. (1  $\frac{1}{2}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

BALUSTER TUBES IN 304 STAINLESS STEEL - 1.66" O.D. (1  $\frac{11}{16}$ ") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).



1  
M-31  
DETAIL SECTION: GUARD RAIL FITTINGS  
SCALE: 3" = 1'-0"



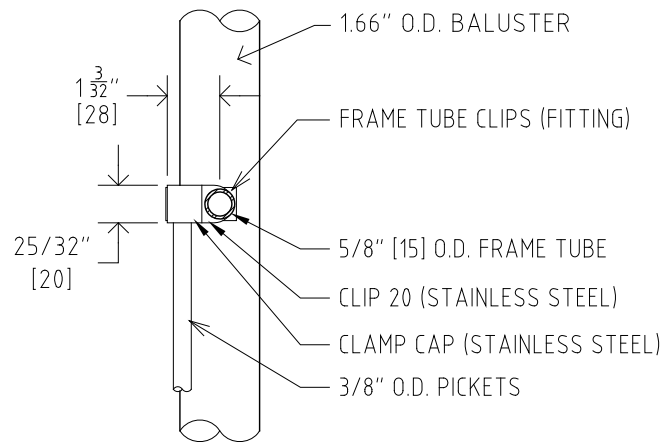
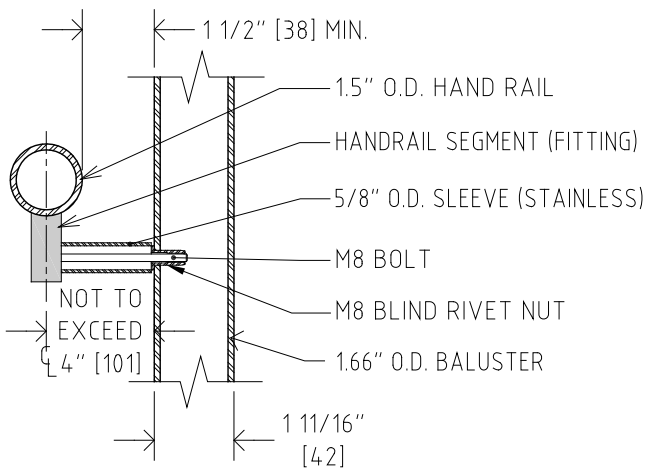
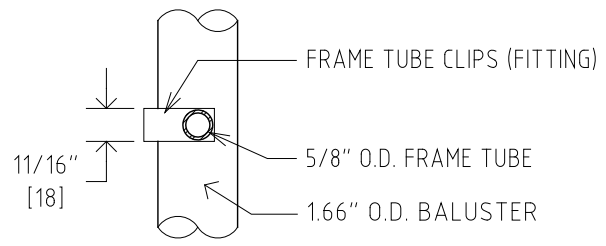
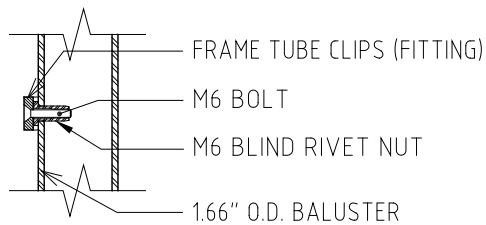
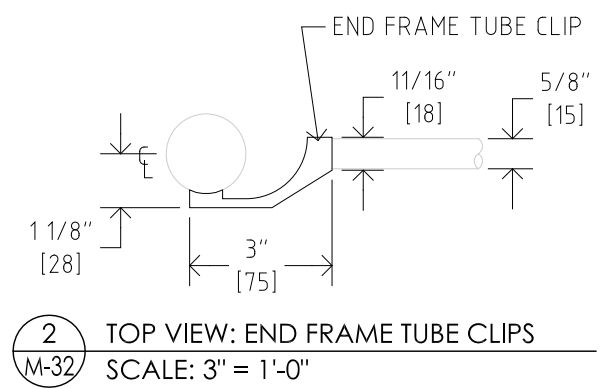
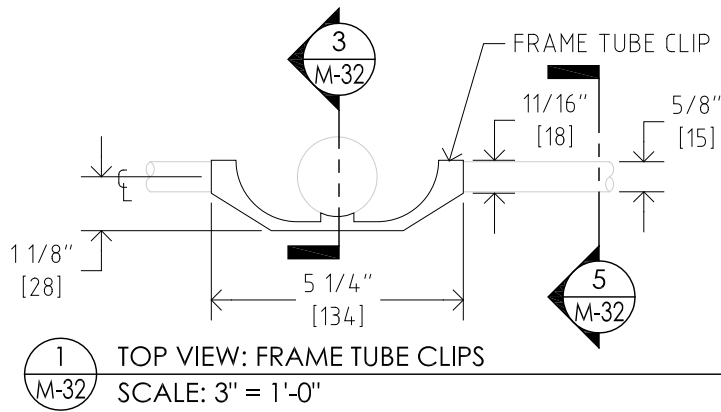
2  
M-31  
DETAIL ELEVATION: GUARD RAIL & FRAME TUBE  
SCALE: 3" = 1'-0"

3  
M-31  
DETAIL ELEVATION: GUARD RAIL AND GLASS  
SCALE: 3" = 1'-0"

**NOTES:**

FITTINGS IN SOLID CAST ZINC WITH POWDER COAT FINISH. ARCHITECT PLEASE SELECT FROM STANDARD COLORS.

INFILL PANELS TO BE  $\frac{5}{16}$ " OR  $\frac{3}{8}$ " THK. CLEAR TEMPERED GLASS, ALL EDGES POLISHED. TEMPERED GLASS LOGO WILL APPEAR. CUSTOM DESIGNED GLASS MAY BE SPECIFIED. OTHER PANEL OPTIONS INCLUDE PERFORATED METAL, WIRE MESH & RESIN PANELS.



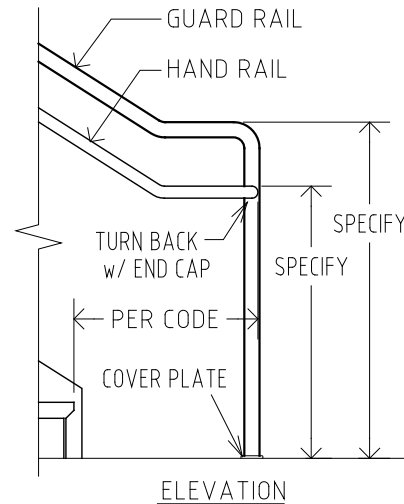
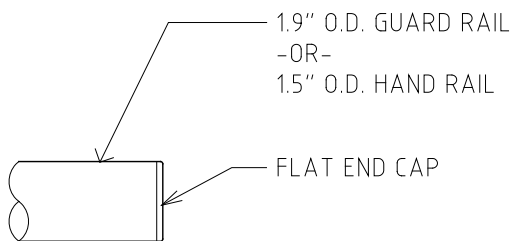
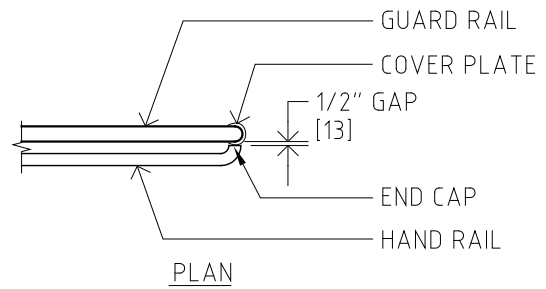
#### NOTES:

FITTINGS IN SOLID CAST ZINC WITH POWDER COAT FINISH. ARCHITECT PLEASE SELECT FROM STANDARD COLORS.

INFILL PANELS TO BE 5/16" OR 3/8" THK. CLEAR TEMPERED GLASS, ALL EDGES POLISHED. TEMPERED GLASS LOGO WILL APPEAR. CUSTOM DESIGNED GLASS MAY BE SPECIFIED. OTHER PANEL OPTIONS INCLUDE PERFORATED METAL, WIRE MESH & RESIN PANELS.

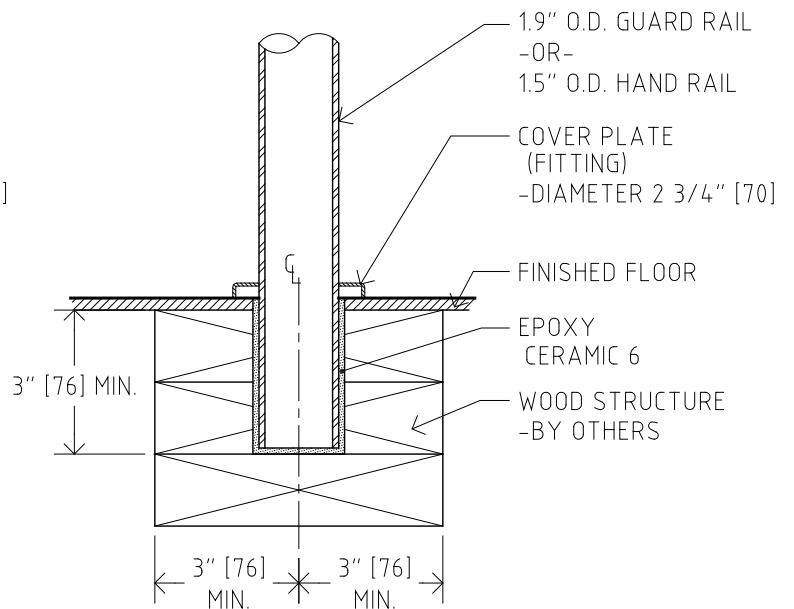
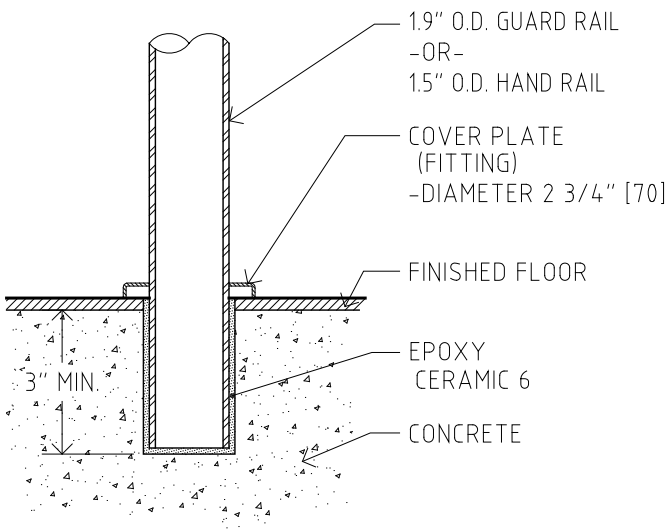
**NOTES:**

FITTINGS IN SOLID CAST ZINC WITH  
POWDER COAT FINISH. ARCHITECT PLEASE  
SELECT FROM STANDARD COLORS.



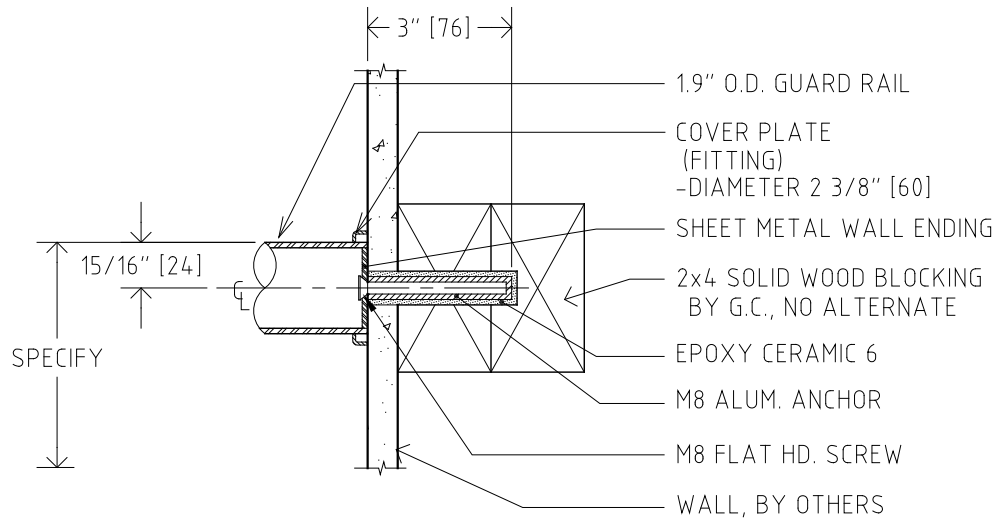
**1** DETAIL: RAILING END CAP  
M-33 SCALE: 3" = 1'-0"

**2** ALTERNATE HAND RAIL TERMINATION  
M-33 SCALE: 1/2" = 1'-0"



**3** DETAIL: RAILING STARTER IN CONCRETE  
M-33 SCALE: 3" = 1'-0"

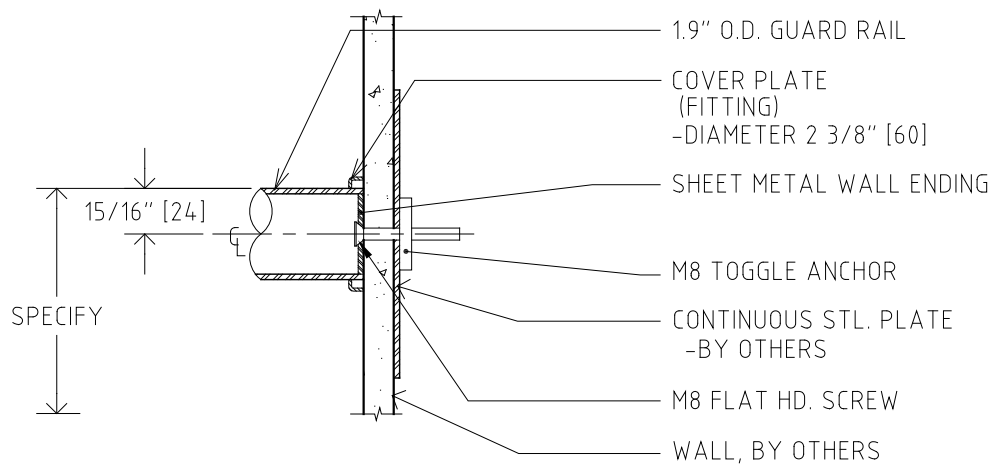
**4** DETAIL: RAILING STARTER IN WOOD  
M-33 SCALE: 3" = 1'-0"



NOTE:  
THIS TECHNIQUE ALSO APPLICABLE TO  
BLOCK, BRICK AND CONCRETE WALLS.

1  
M-34

DETAIL SECTION: GUARD RAIL TERMINATION, STANDARD  
SCALE: 3" = 1'-0"

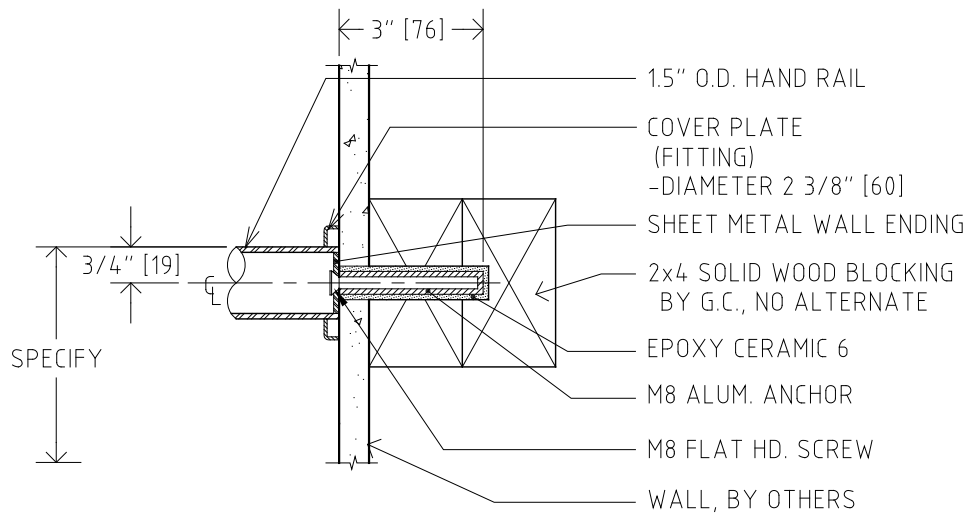


2  
M-34

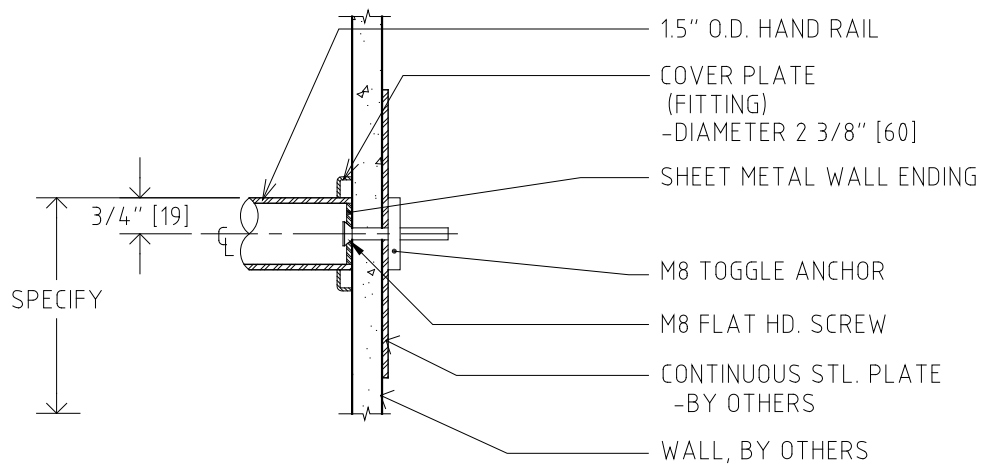
DETAIL SECTION: GUARD RAIL TERMINATION, ALTERNATE  
SCALE: 3" = 1'-0"

NOTES:

FITTINGS IN SOLID CAST ZINC WITH  
POWDER COAT FINISH. ARCHITECT PLEASE  
SELECT FROM STANDARD COLORS.



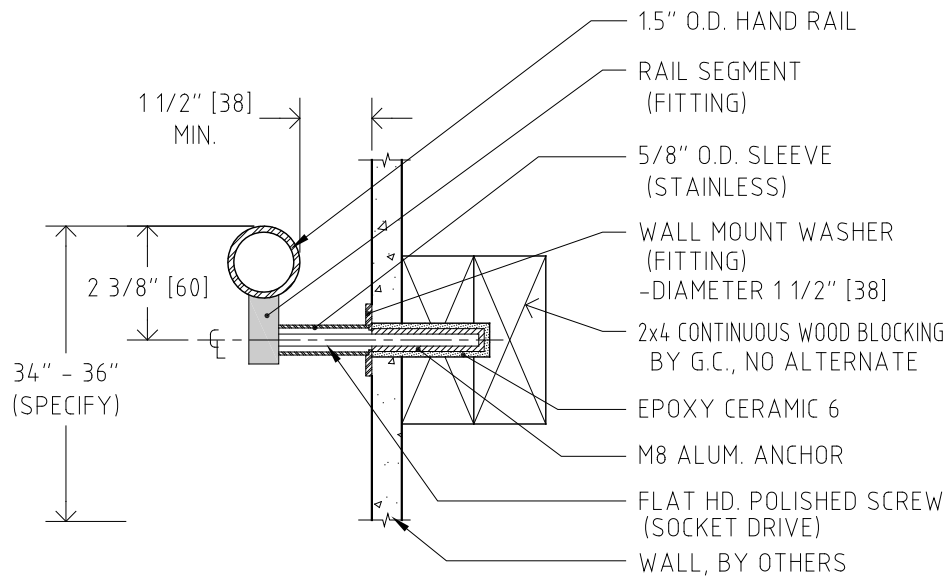
1 DETAIL SECTION: HAND RAIL TERMINATION, STANDARD  
M-35 SCALE: 3" = 1'-0"



2 DETAIL SECTION: HAND RAIL TERMINATION, ALTERNATE  
M-35 SCALE: 3" = 1'-0"

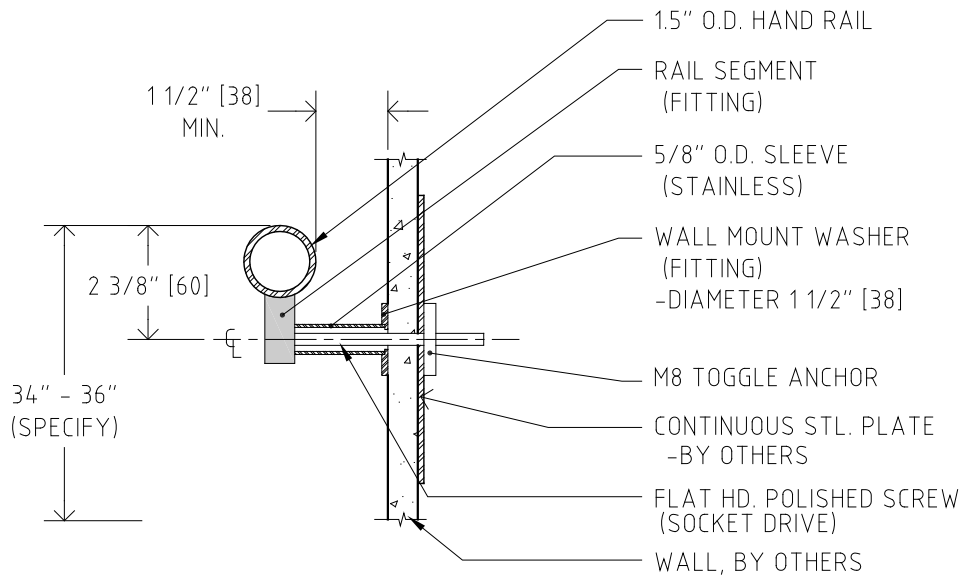
NOTES:

FITTINGS IN SOLID CAST ZINC WITH  
POWDER COAT FINISH. ARCHITECT PLEASE  
SELECT FROM STANDARD COLORS.



NOTE:  
THIS TECHNIQUE ALSO APPLICABLE TO  
BLOCK, BRICK AND CONCRETE WALLS.

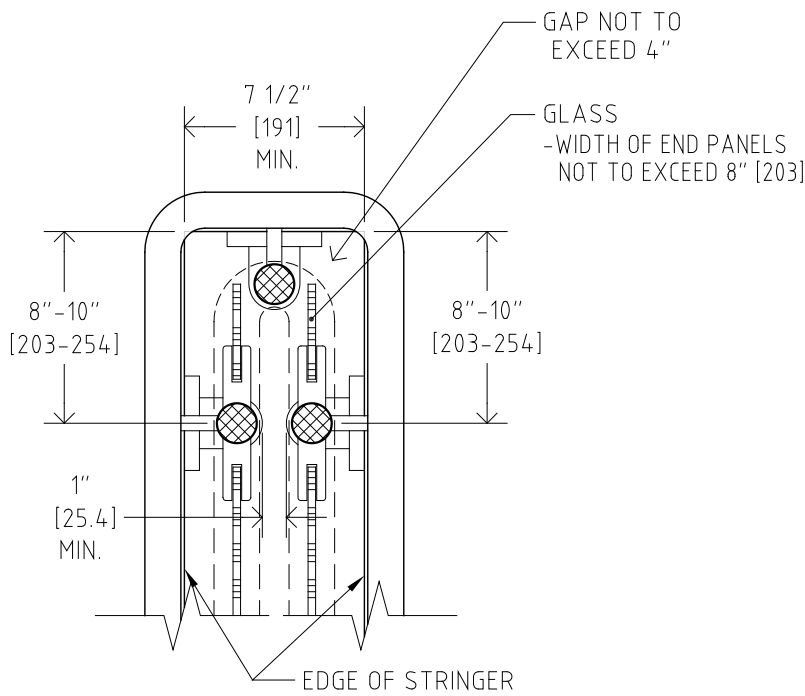
1 DETAIL SECTION: WALL MOUNT BRACKETS, STANDARD  
M-36 SCALE: 3" = 1'-0"



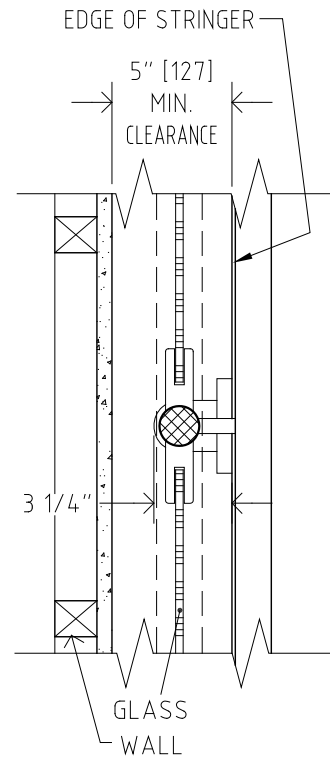
2 DETAIL SECTION: WALL MOUNT BRACKETS, ALTERNATE  
M-36 SCALE: 3" = 1'-0"

NOTES:

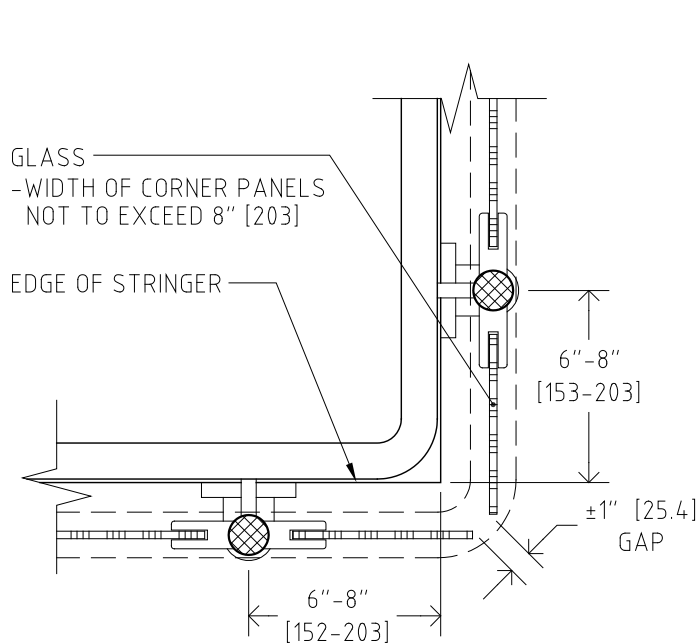
FITTINGS IN SOLID CAST ZINC WITH  
POWDER COAT FINISH. ARCHITECT PLEASE  
SELECT FROM STANDARD COLORS.



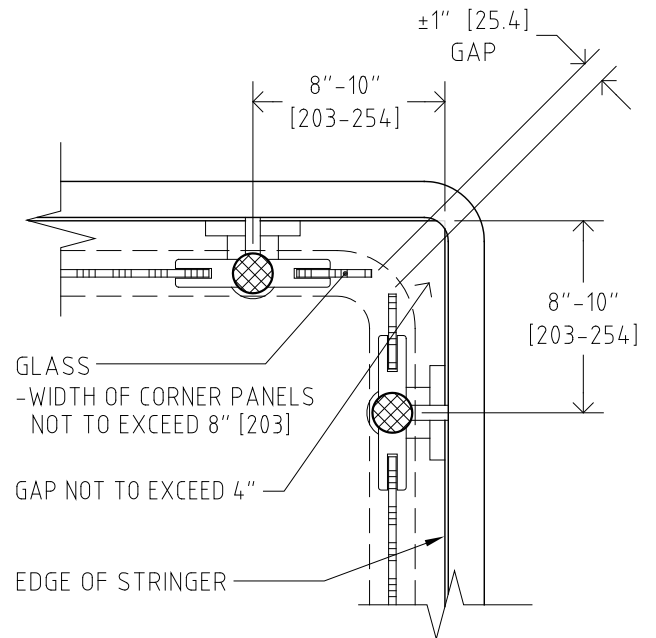
1 MINIMUM WIDTH, SIDE MOUNT AT EYE  
M-37 SCALE: 1 1/2" = 1'-0"



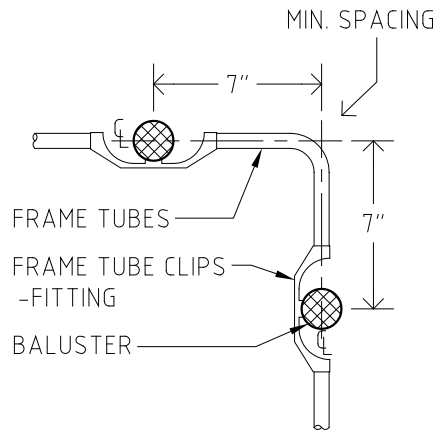
2 SIDE MOUNT ADJACENT TO WALL  
M-37 SCALE: 1 1/2" = 1'-0"



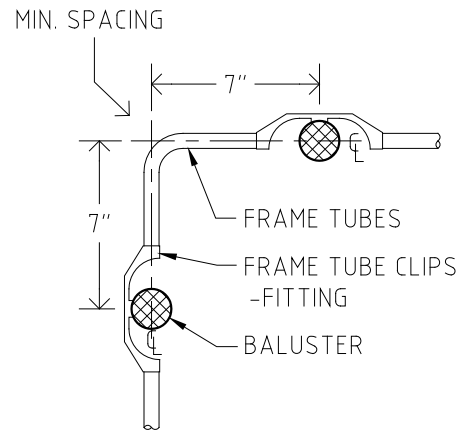
3 SIDE MOUNT OUTSIDE AT CORNER  
M-37 SCALE: 1 1/2" = 1'-0"



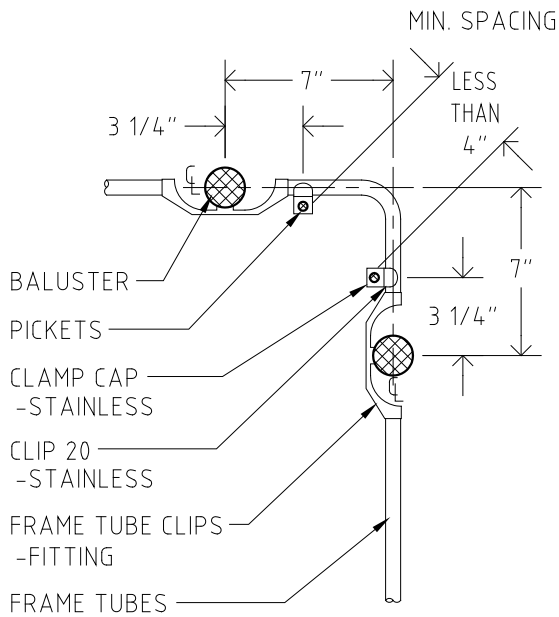
4 SIDE MOUNT INSIDE AT CORNER  
M-37 SCALE: 1 1/2" = 1'-0"



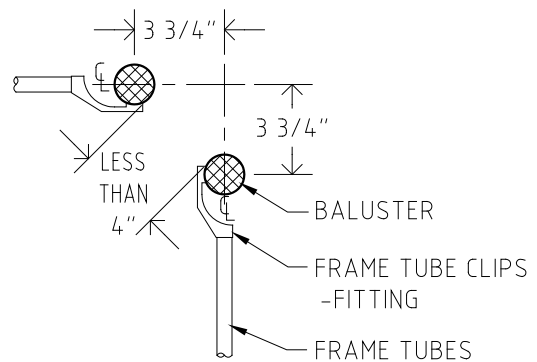
1  
M-38  
DETAIL PLAN: FRAME TUBE, INSIDE CORNER  
SCALE: 1 1/2" = 1'-0"



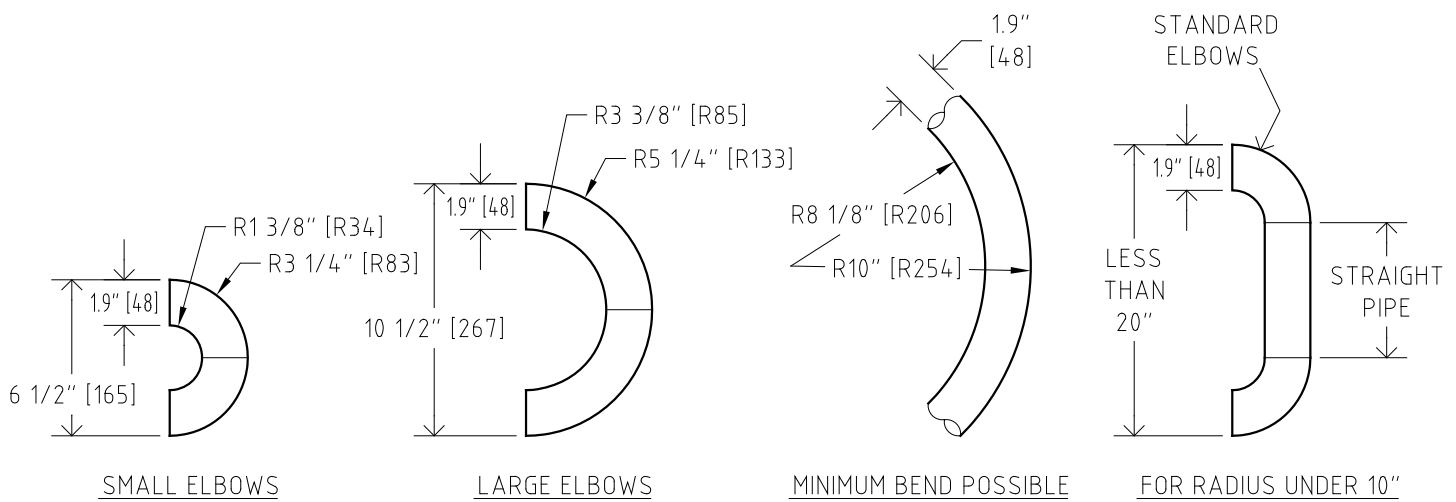
2  
M-38  
DETAIL PLAN: FRAME TUBE, OUTSIDE CORNER  
SCALE: 1 1/2" = 1'-0"



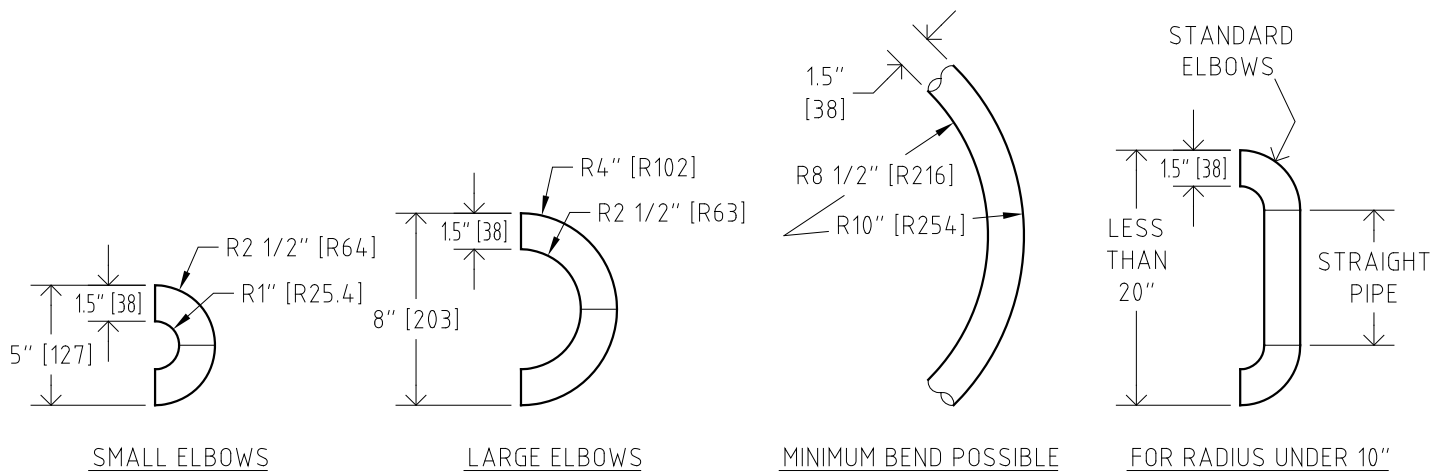
3  
M-38  
DETAIL PLAN: CORNER GAP w/ PICKETS  
SCALE: 1 1/2" = 1'-0"



4  
M-38  
DETAIL PLAN: OPEN CORNER GAP  
SCALE: 1 1/2" = 1'-0"



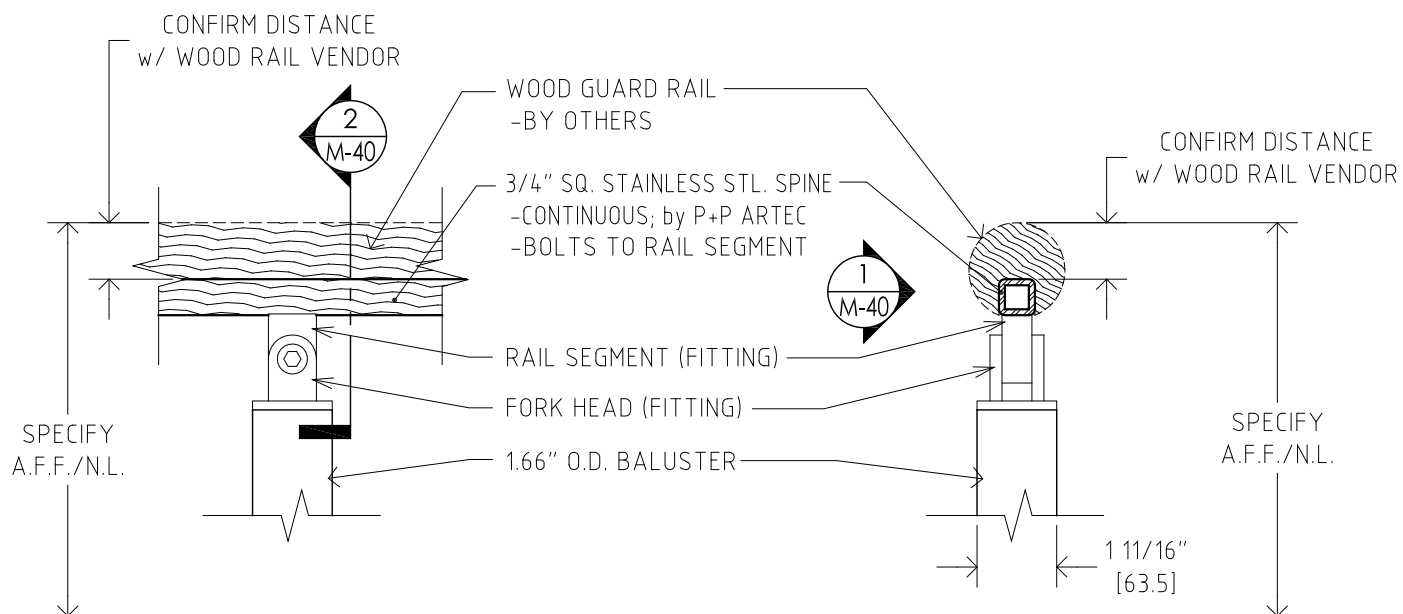
1 TOP VIEWS: ELBOWS AND BENDS FOR 1.9" O.D. PIPE  
M-39 SCALE: 1 1/2" = 1'-0"



2 TOP VIEWS: ELBOWS AND BENDS FOR 1.5" O.D. PIPE  
M-39 SCALE: 1 1/2" = 1'-0"

NOTES:

HANDRAIL TUBES IN 304 STAINLESS STEEL - 1.9" O.D. APPROVED BY A.D.A. (1 7/8" O.D.) OR 1.5" O.D. (1 1/2") WITH 360-400 GRIT FINISH (CIRCUMFERENCIAL).

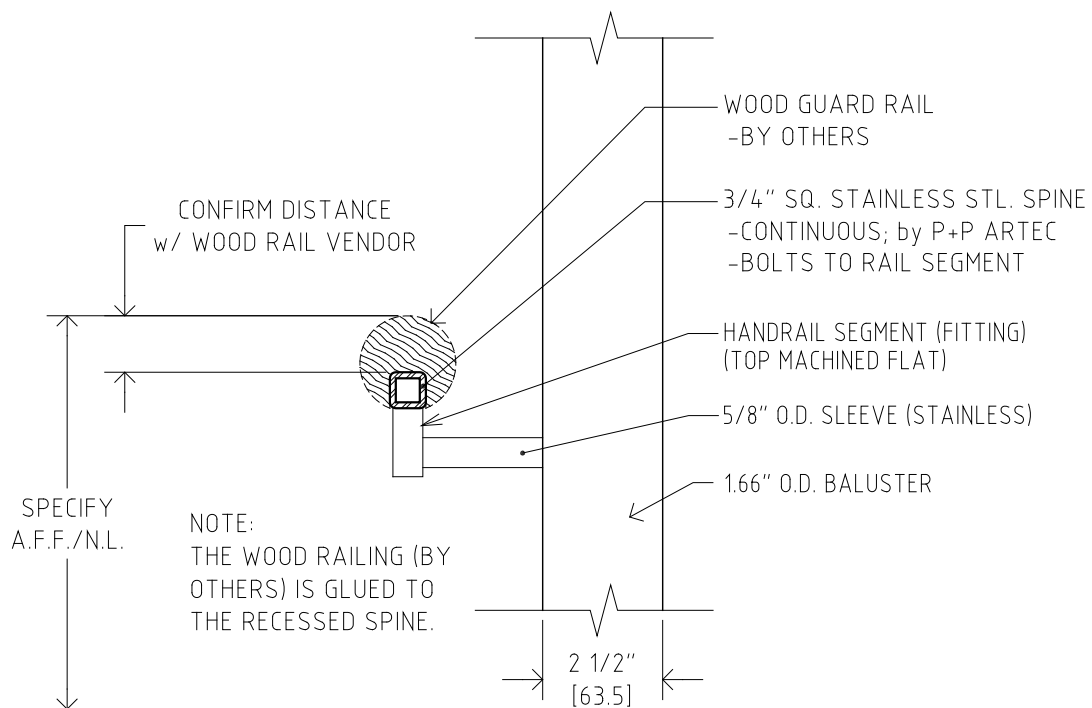


1  
M-40

DETAIL ELEVATION: WOOD RAIL  
SCALE: 3" = 1'-0"

2  
M-40

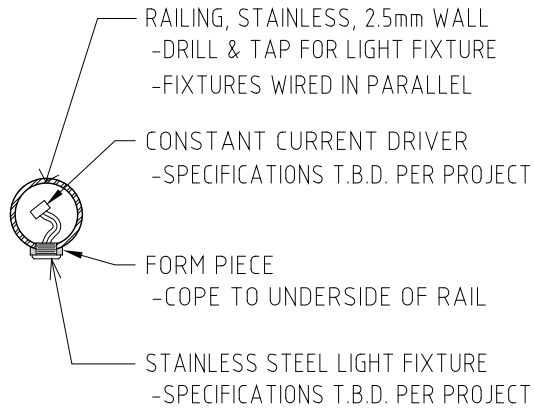
DETAIL SECTION: WOOD GUARD  
SCALE: 3" = 1'-0"



3  
M-40

DETAIL SECTION: WOOD HAND RAIL  
SCALE: 3" = 1'-0"

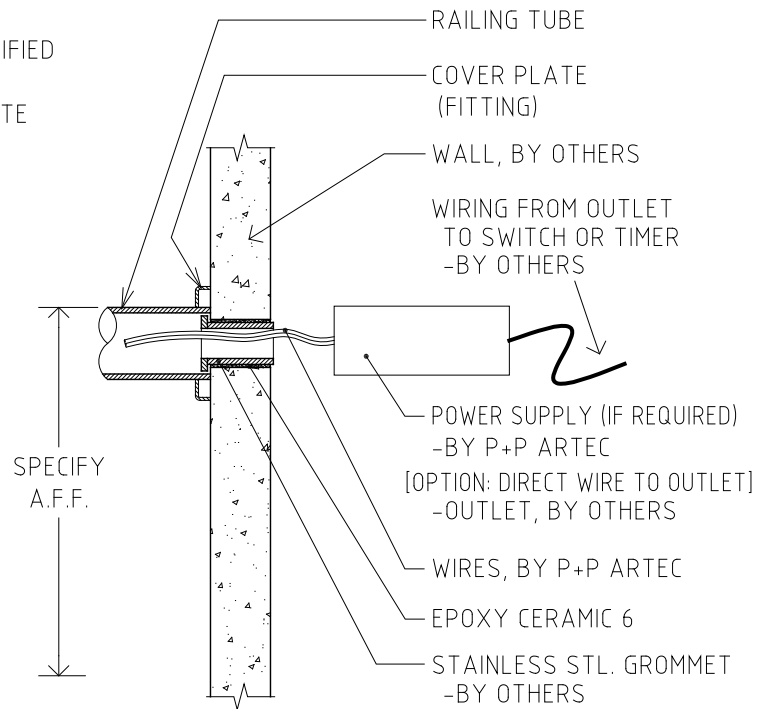
NOTE:  
 CONNECTION TO MAIN POWER SUPPLY PERFORMED BY CERTIFIED  
 ELECTRICIANS, PRIOR TO L.E.D. HAND RAIL INSTALLATION /  
 CONNECTION WITH THE RAILING SYSTEM. G.C. TO COORDINATE



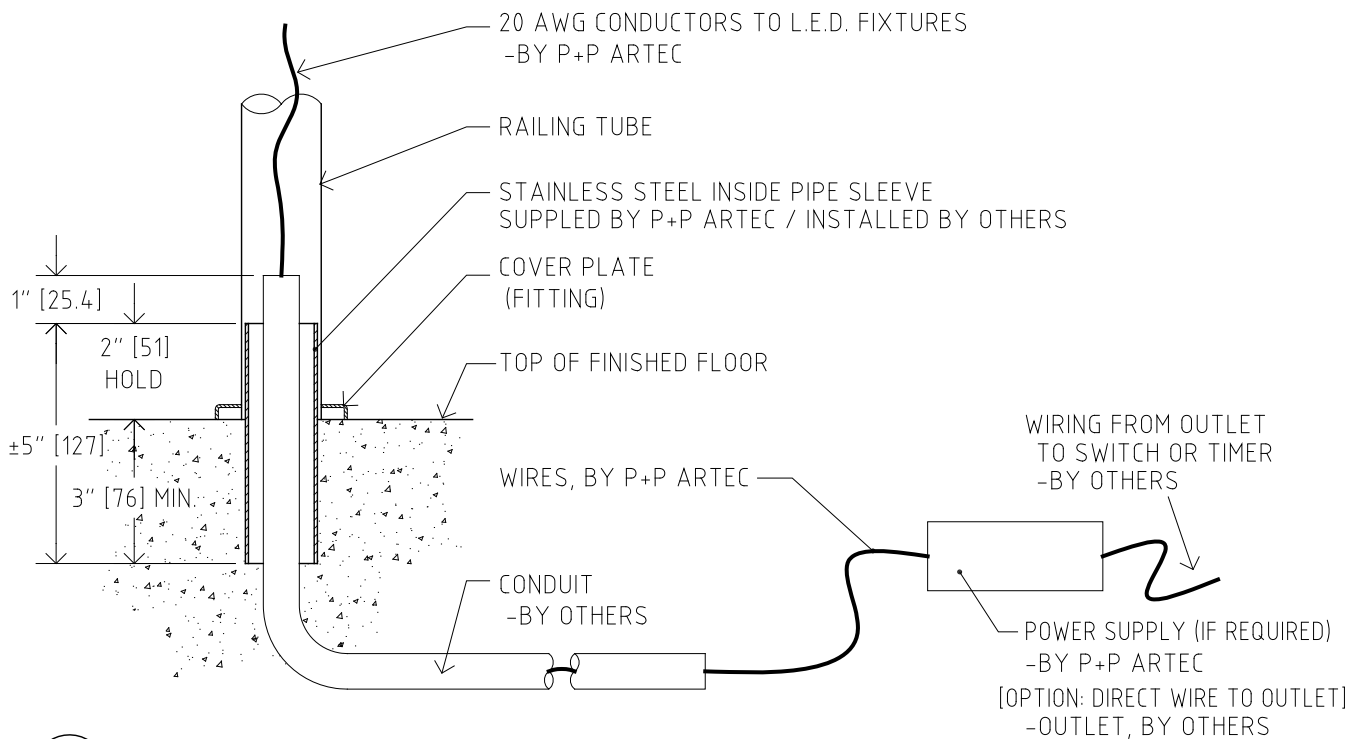
FEEDER CABLE: 20 AWG

FIXTURE WIRES: 22 AWG w/ POST TAP CONNECTORS

1  
 M-41  
 DETAIL SECTION: L.E.D. AT RAILING  
 SCALE: 3" = 1'-0"



2  
 M-41  
 DETAIL SECTION: POWER SOURCE FROM WALL  
 SCALE: 3" = 1'-0"



3  
 M-41  
 DETAIL SECTION: POWER SOURCE FROM FLOOR  
 SCALE: 3" = 1'-0"