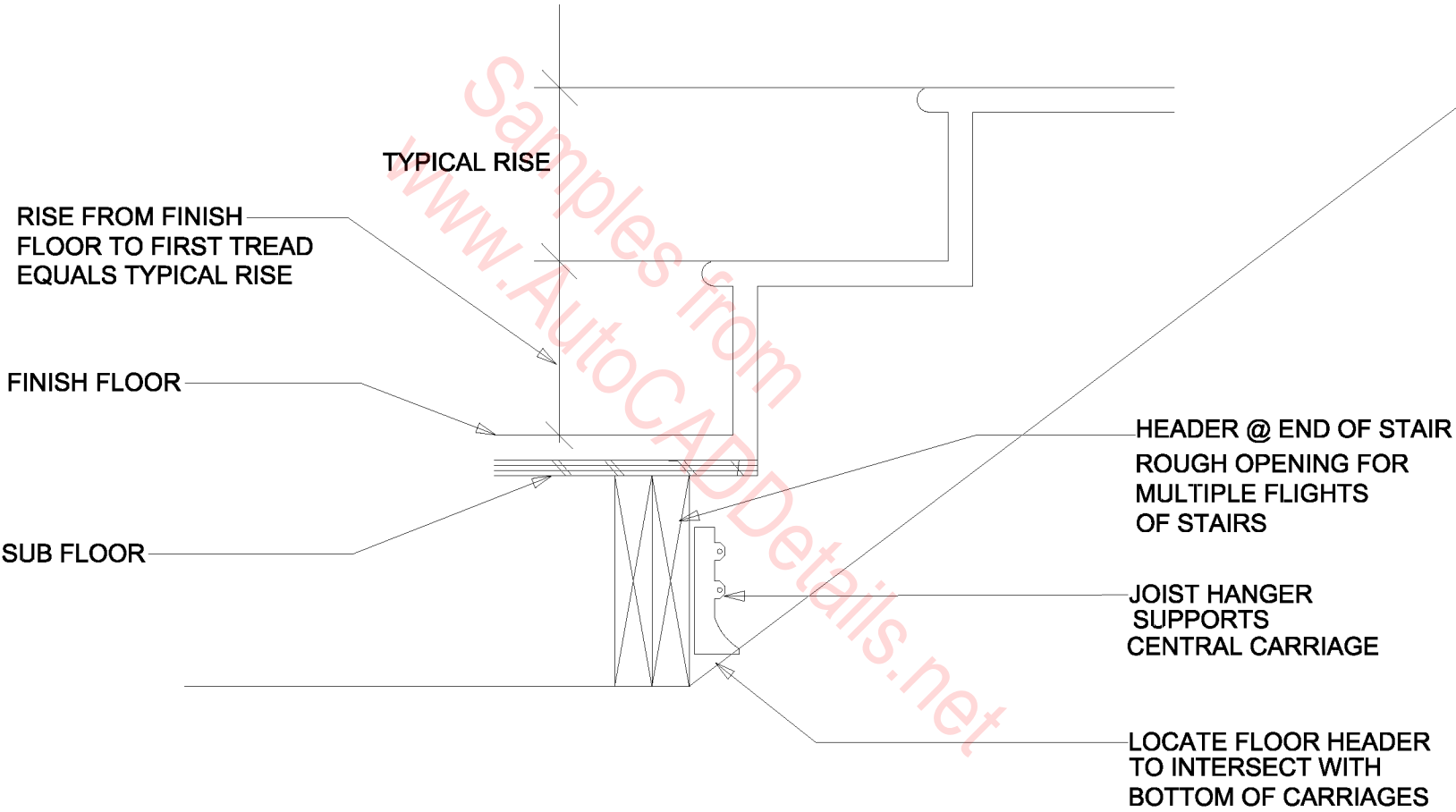
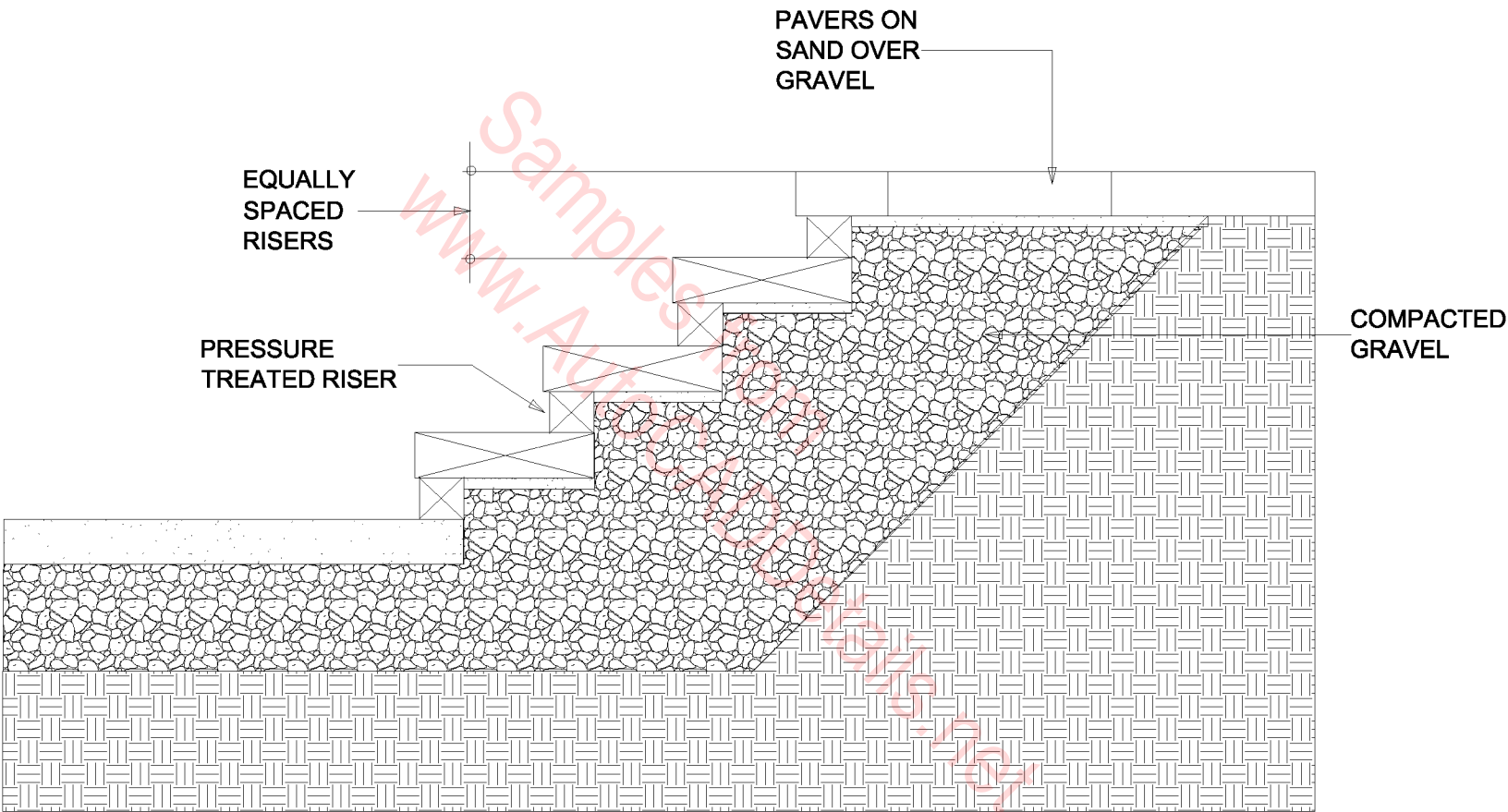


NOTE: SIDE CARRIAGES MAY
BE HUNG FROM
HEADER OR ATTACHED
TO WALL FRAMING



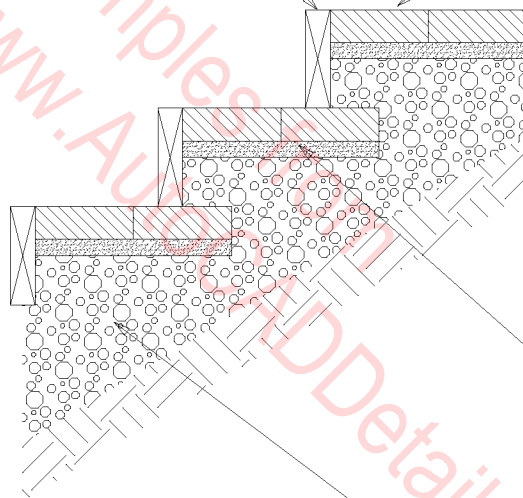
**BOTTOM OF CARRIAGE/FLOOR
INTERMEDIATE FLIGHT**



CONCRETE PAVER STEPS

2 X PRESSURE - TREATED
OR DECAY - RESISTANT
HEADER RIPPED TO RISER HEIGHT &
ATTACHED @ ENDS TO
WALLS OR HEADER

BRICK (OR
CONCRETE PAVERS)

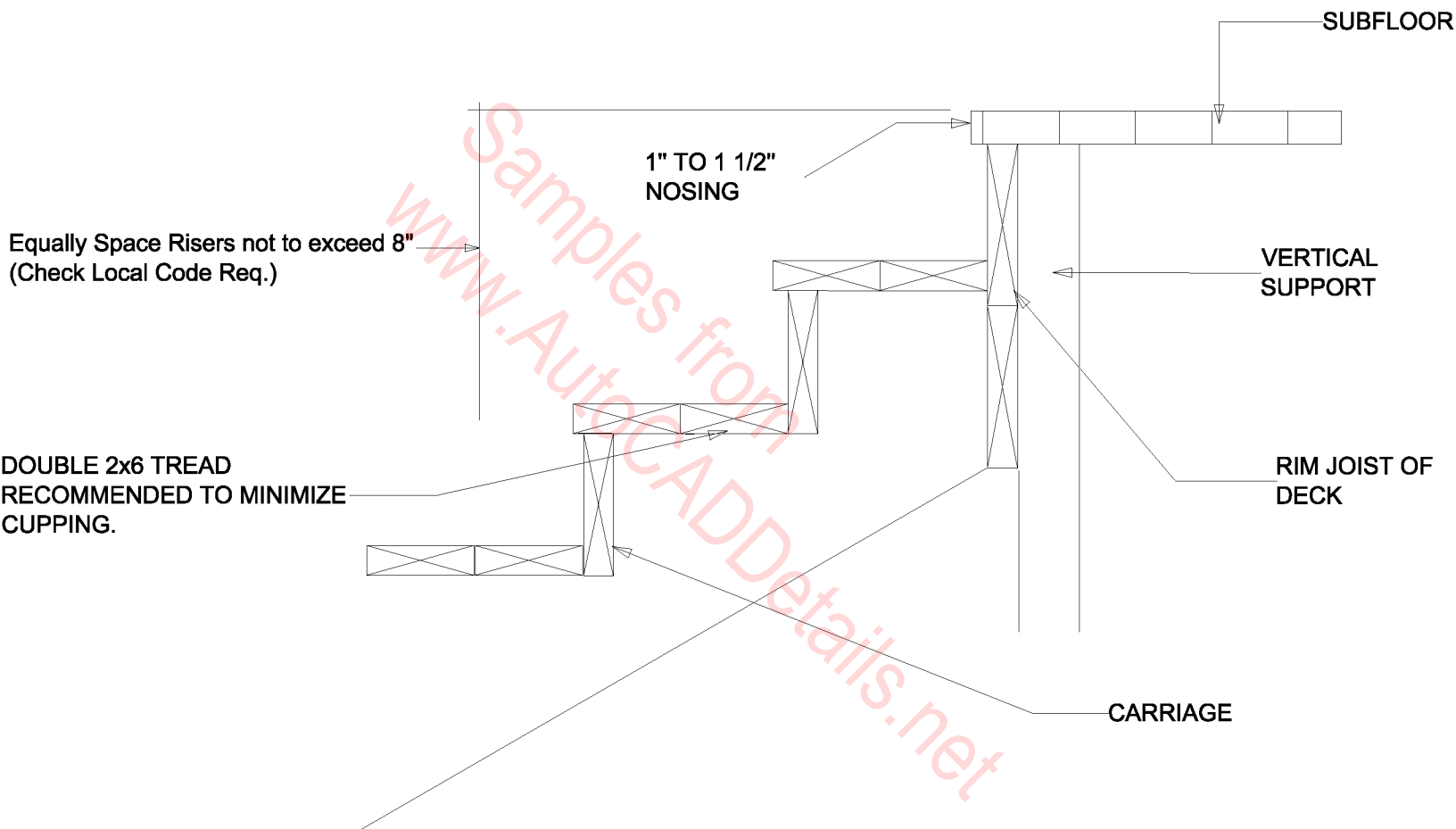


1 IN. (MAX) SAND
SETTING BED

COMPACTED ROCK BASE OR
SELF - COMPACTING PEA GRAVEL

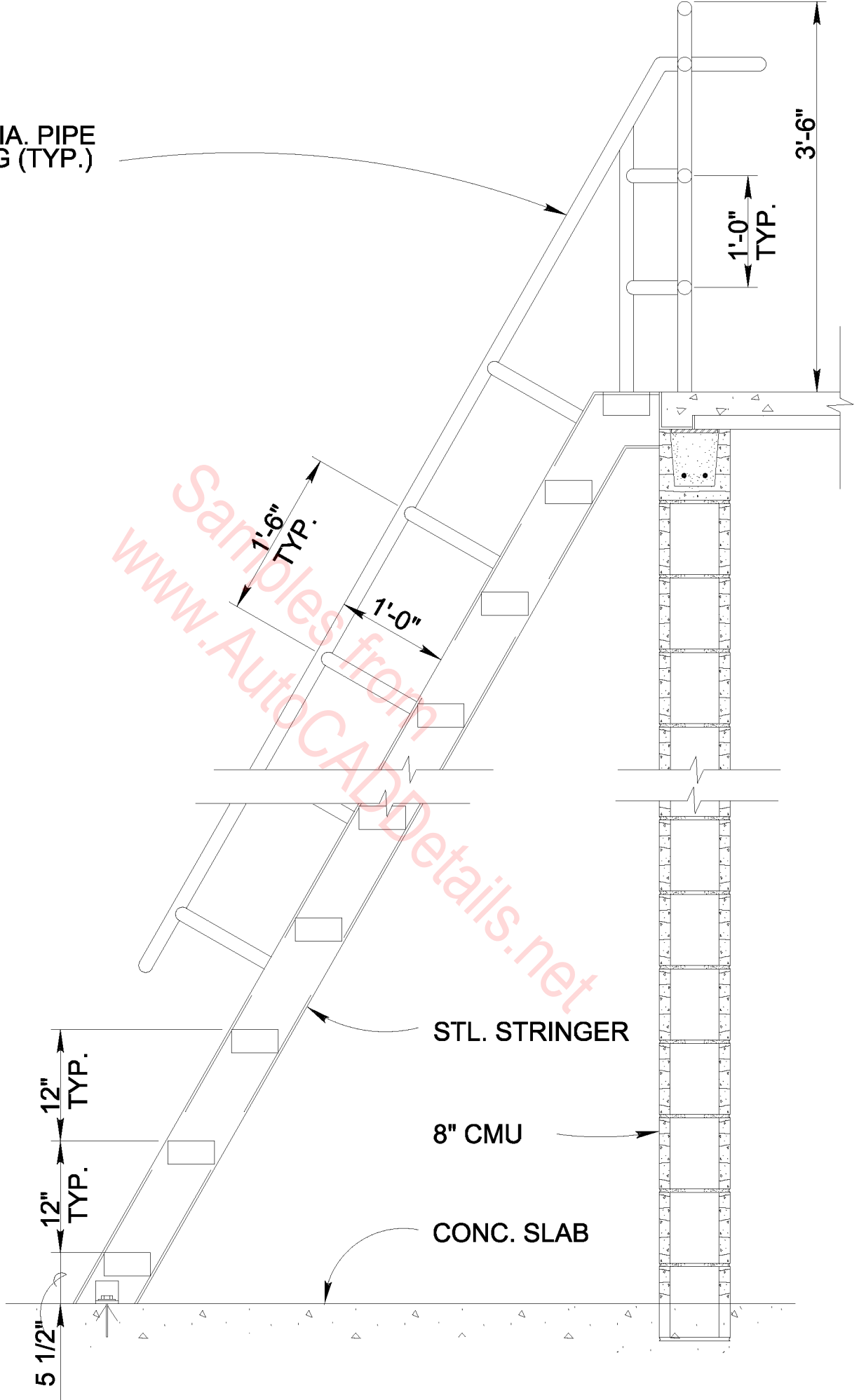
DRY - SET EXTERIOR STEPS

BRICK

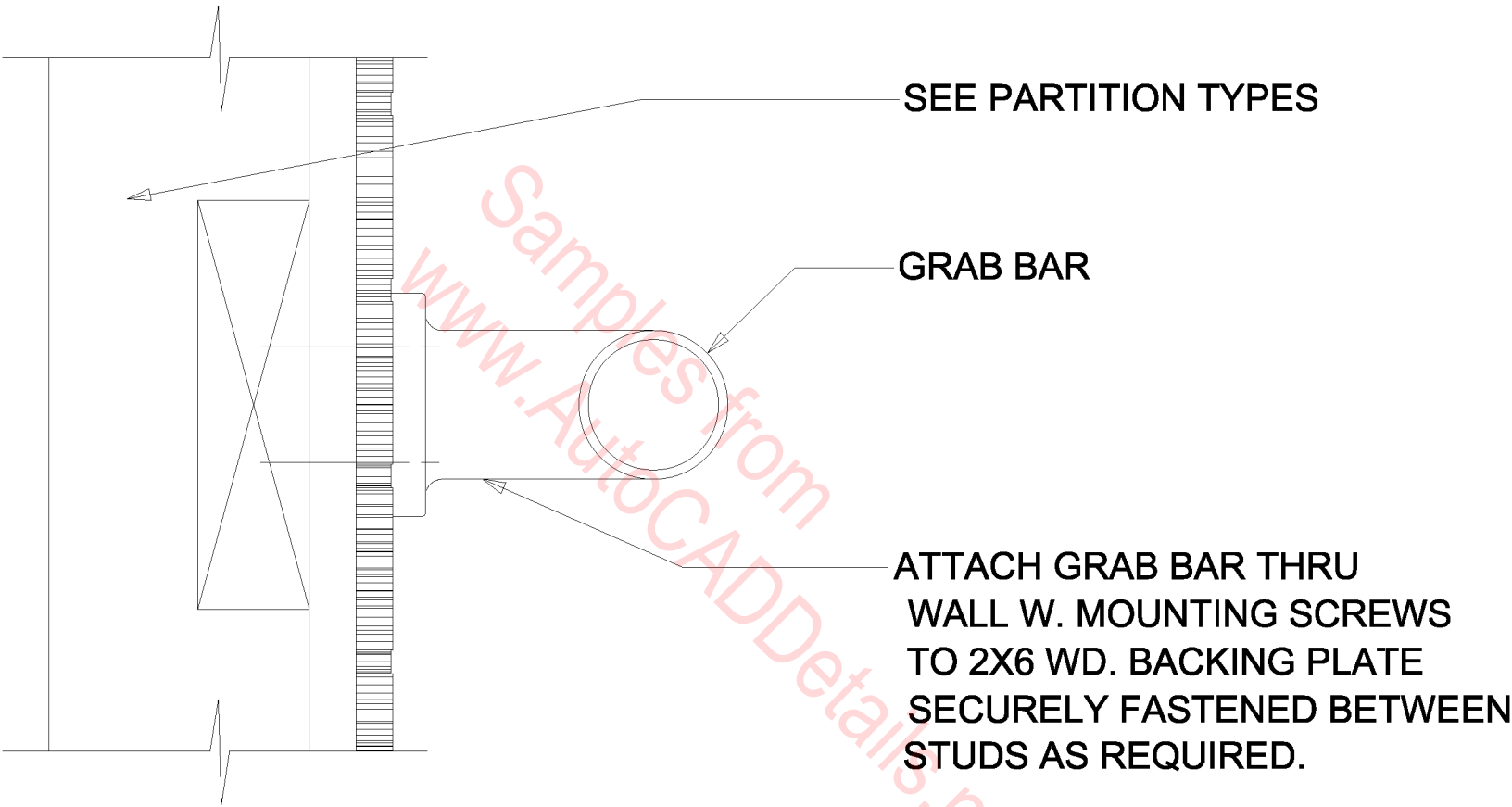


EXTERIOR WOOD STAIR

1 1/2" DIA. PIPE RAILING (TYP.)



FIXED LADDER ELEVATION



GRAB BAR

GRIND ALL WELDS SMOOTH
TYPICAL

1 1/4" STEEL PIPE GUARDRAIL

1 1/4" STEEL PIPE HANDRAIL

1 1/2" STEEL PIPE VERTICAL POST
WELD TO STRINGER

FINISH FLOOR

SEE PLANS

2"

LINE OF WALL

5 EQ SPACES (6" SP. MAX.)

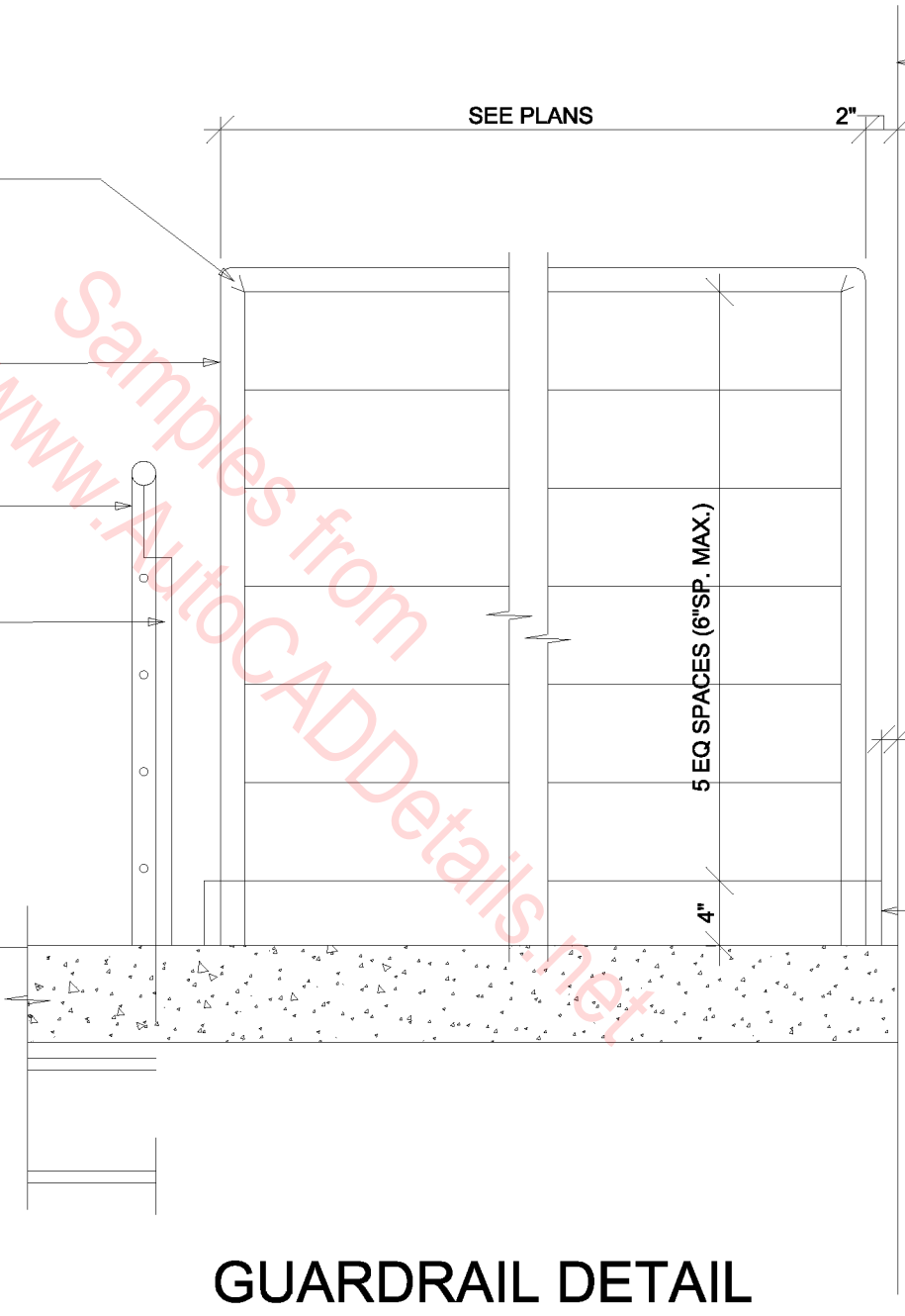
1"

4"

TOEGUARD

GUARDRAIL DETAIL

Samples from
www.AutoCADDetails.net



1 1/2" DIA. X-STRONG
PIPE VERTICAL

6" DIA. GUARD
POST (BEYOND)

4" TOE PLATE @
1/4" CLEAR FROM FLOOR
(BEYOND)

TOP OF FLOOR
EL. X'-Y"

3/16 TYP.

5 1/2"
(VERIFY)

STRUCTURAL SLAB EDGE
(BEYOND)

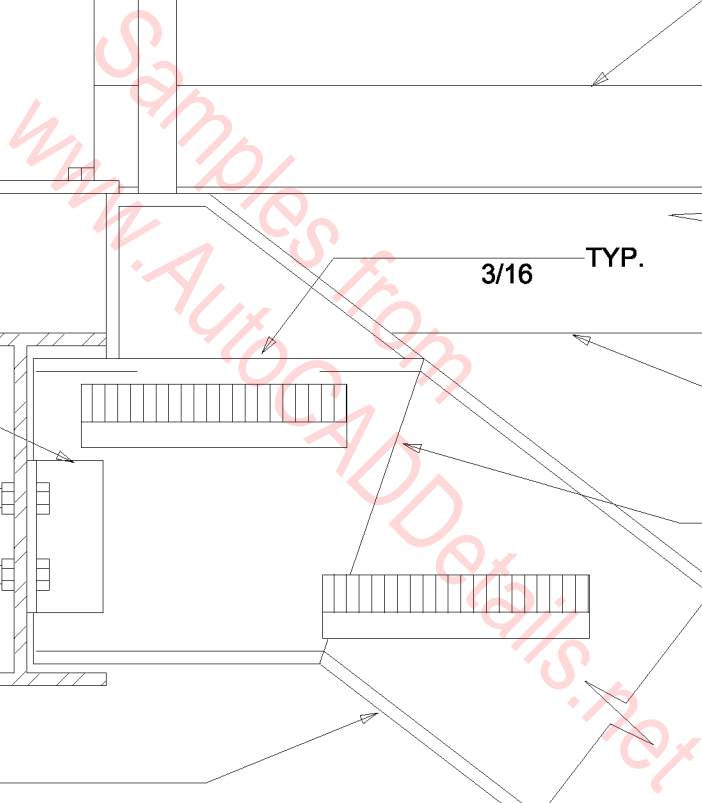
FULL
PENETRATION
TYP.

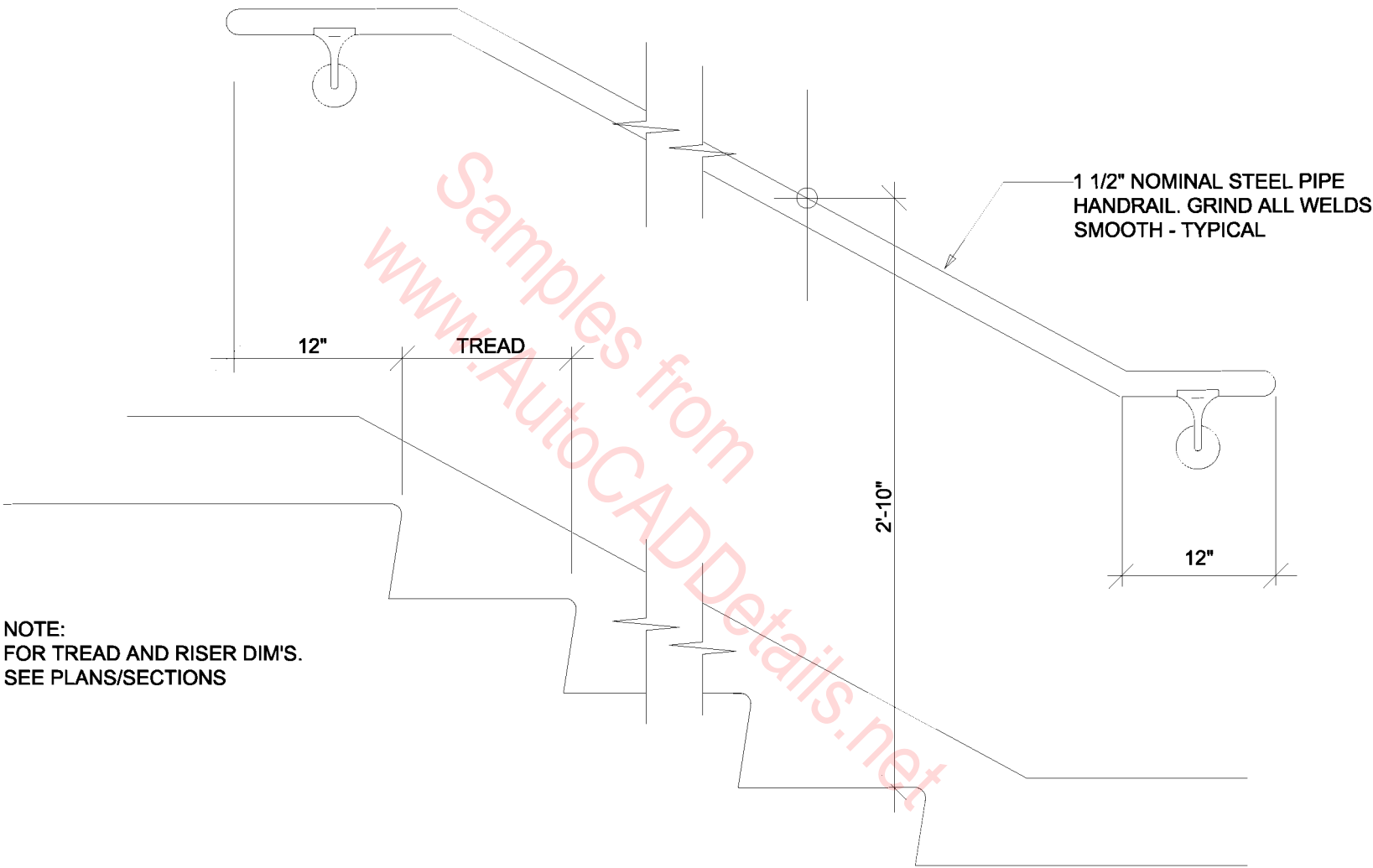
1 PR. CONN. ANGLES
L3 x 3 x 1/4 x 0'-6" LG.
w/ 4 - 3/4" BOLTS
(TYP. EACH STRINGER)

NEW W14 x 30

C12 x 20.7 STRINGER (TYP.)

Handrail Attachment





HANDRAIL DETAIL

CORRIDOR WALL

TYPICAL CORRIDOR
DOOR JAMB

3"

CONT. BLOCKING BELOW

RETURN HANDRAIL AT DOORS
AT 45D ANGLE

PLAN

CORRIDOR WALL

CONT. 2 x 6 NAILER
LET-IN TO STUDS

2'-5 1/2"
A.F.F.

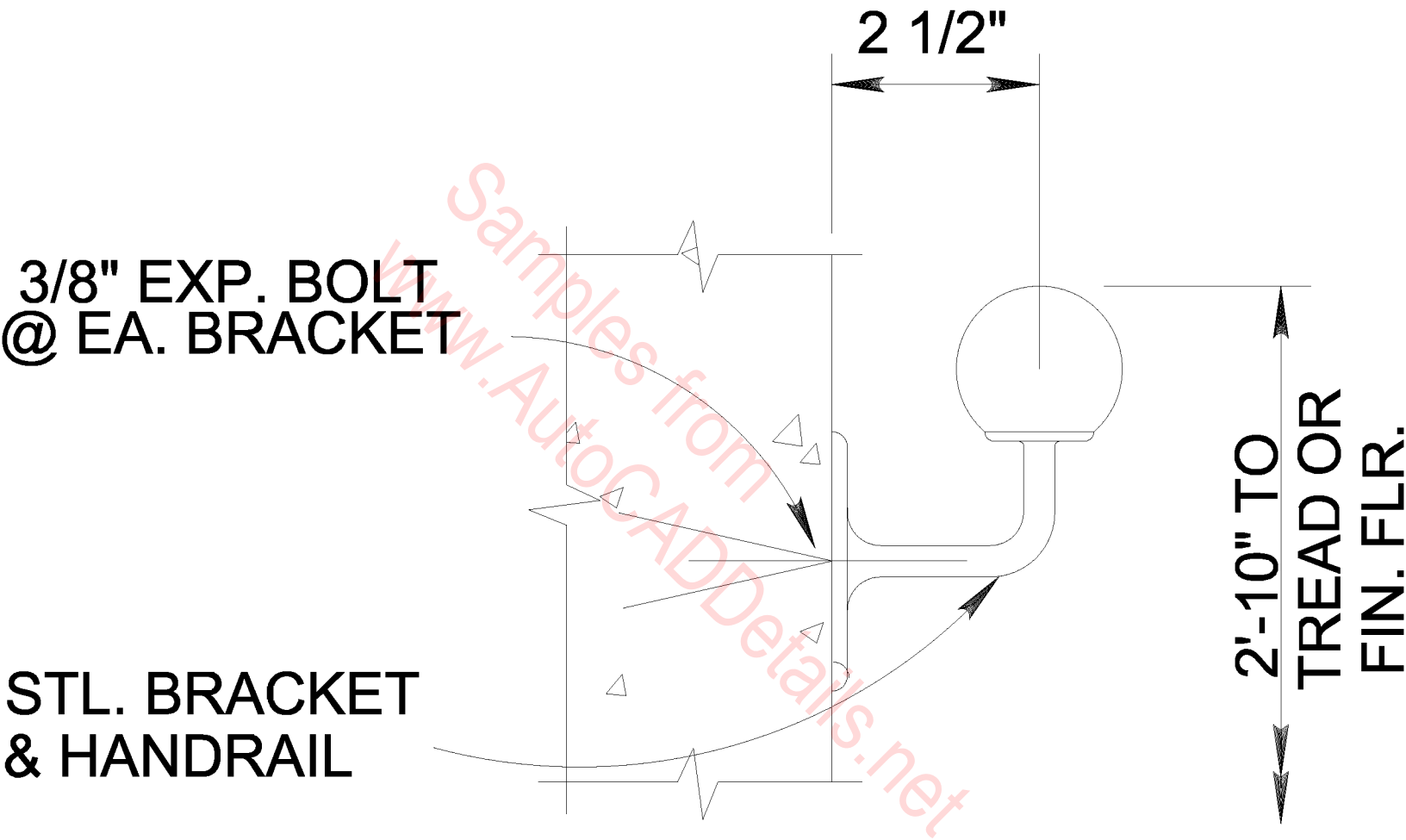
2'-9"
A.F.F.

1 5/8" C BIRCH HANDRAIL

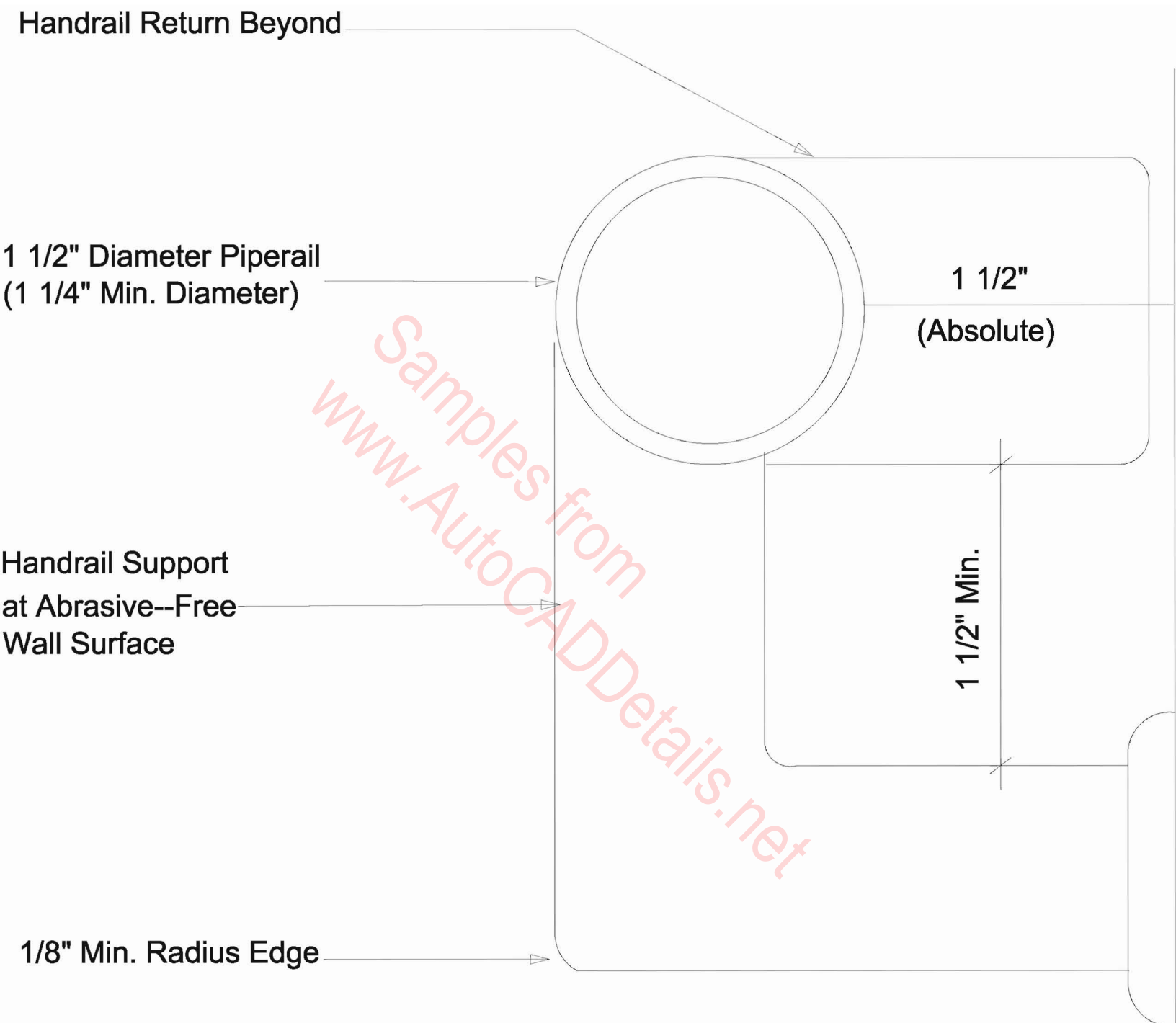
WALL BRACKET AT 4'-0" O.C.

HANDRAIL DETAIL

Samples from
www.AutocADDetails.net



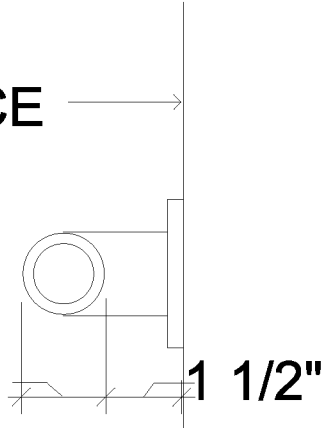
HANDRAIL MOUNTING DETAIL



HANDRAIL RETURN AT WALL

WALL SURFACE

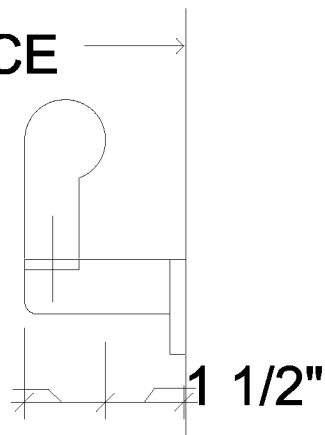
1 1/4"-
1 1/2"



(A) GRAB BAR

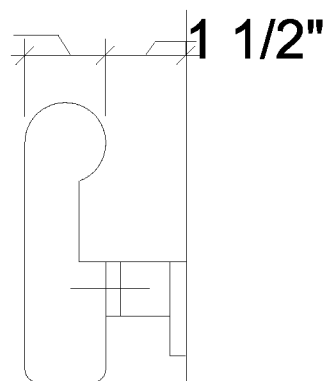
WALL SURFACE

1 1/4"-
1 1/2"



(B) HANDRAIL

1 1/4"-
1 1/2"



WALL SURFACE

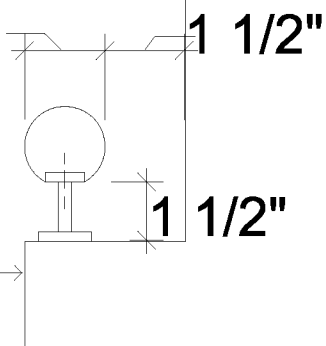
(C) HANDRAIL

18" MIN.

1 1/4"-
1 1/2"

WALL SURFACE

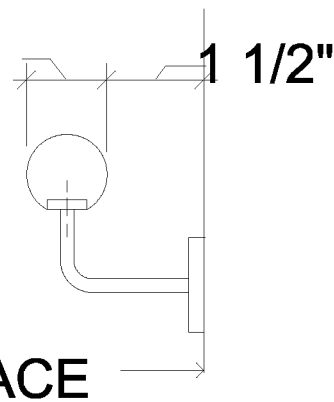
(E) HANDRAIL



1 1/4"-
1 1/2"

WALL SURFACE

(D) HANDRAIL



HANDRAIL SECTIONS

RETURN ENDS TO WALL
TYPICAL

1 1/2" NOM. PIPE RAIL
WELD CONNECTIONS
AND GRIND SMOOTH

BRACKETS W/ SPACER
SPACE EQUALLY AT 5'-0"
O.C. MAX.

2'-10" A.F.F.

2x4 WOOD BLOCKING
BETWEEN STUDS

See code requirement

2"

(SECTION)

90 DEG. ELBOW TO WALL
AT EACH END

1'-0"

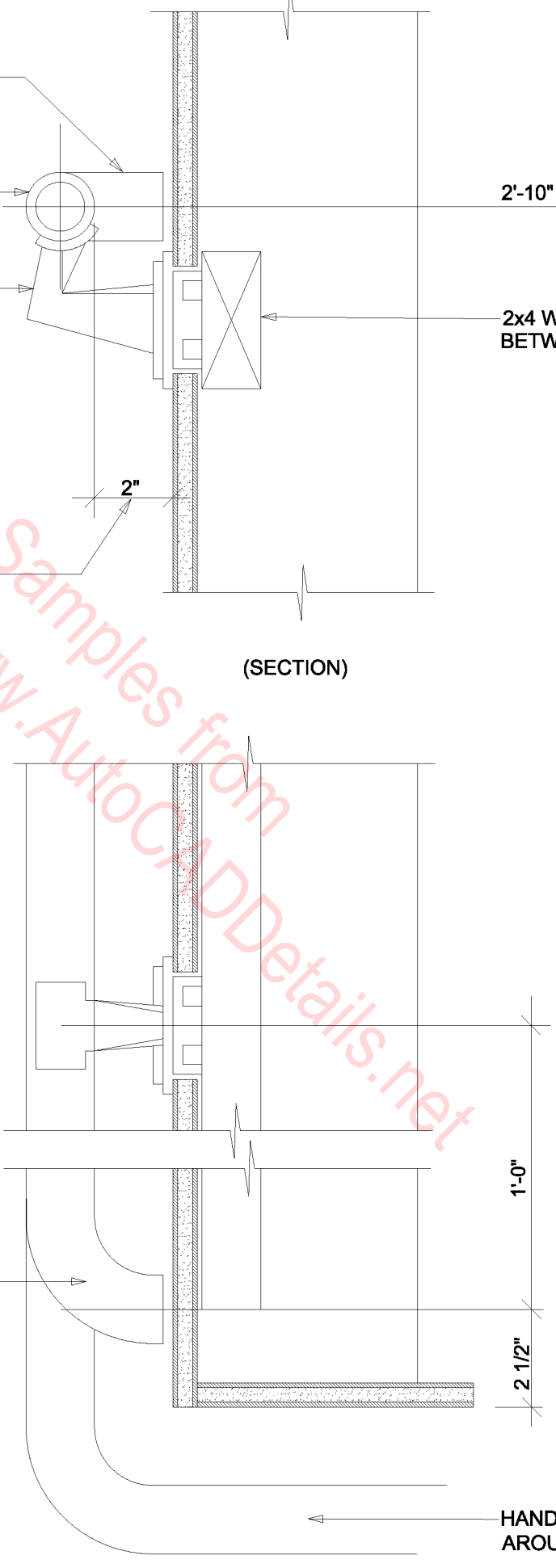
2 1/2"

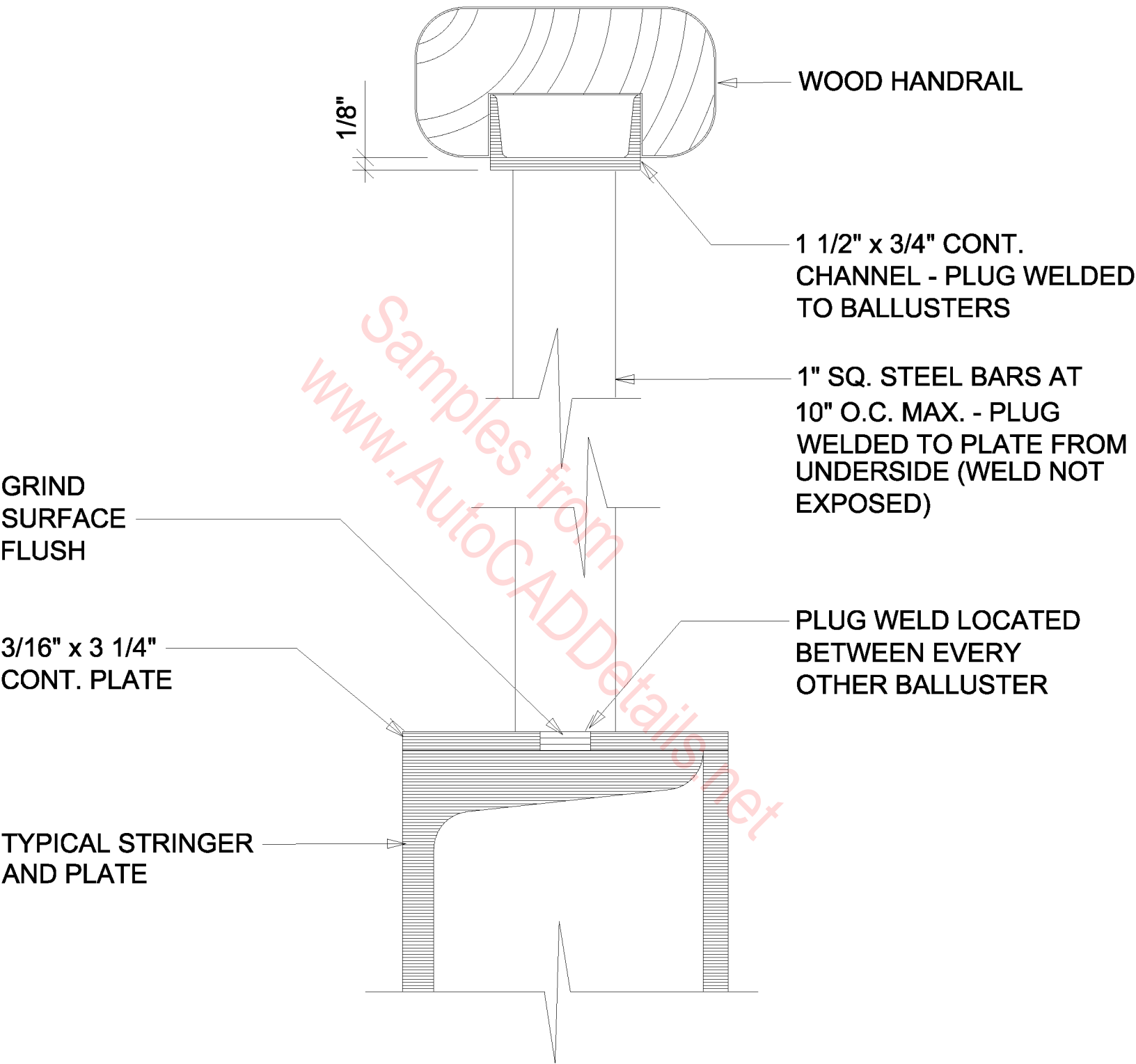
HANDRAIL WHERE CONTINUOUS
AROUND PARTITION

(PLAN)

HANDRAIL DETAIL

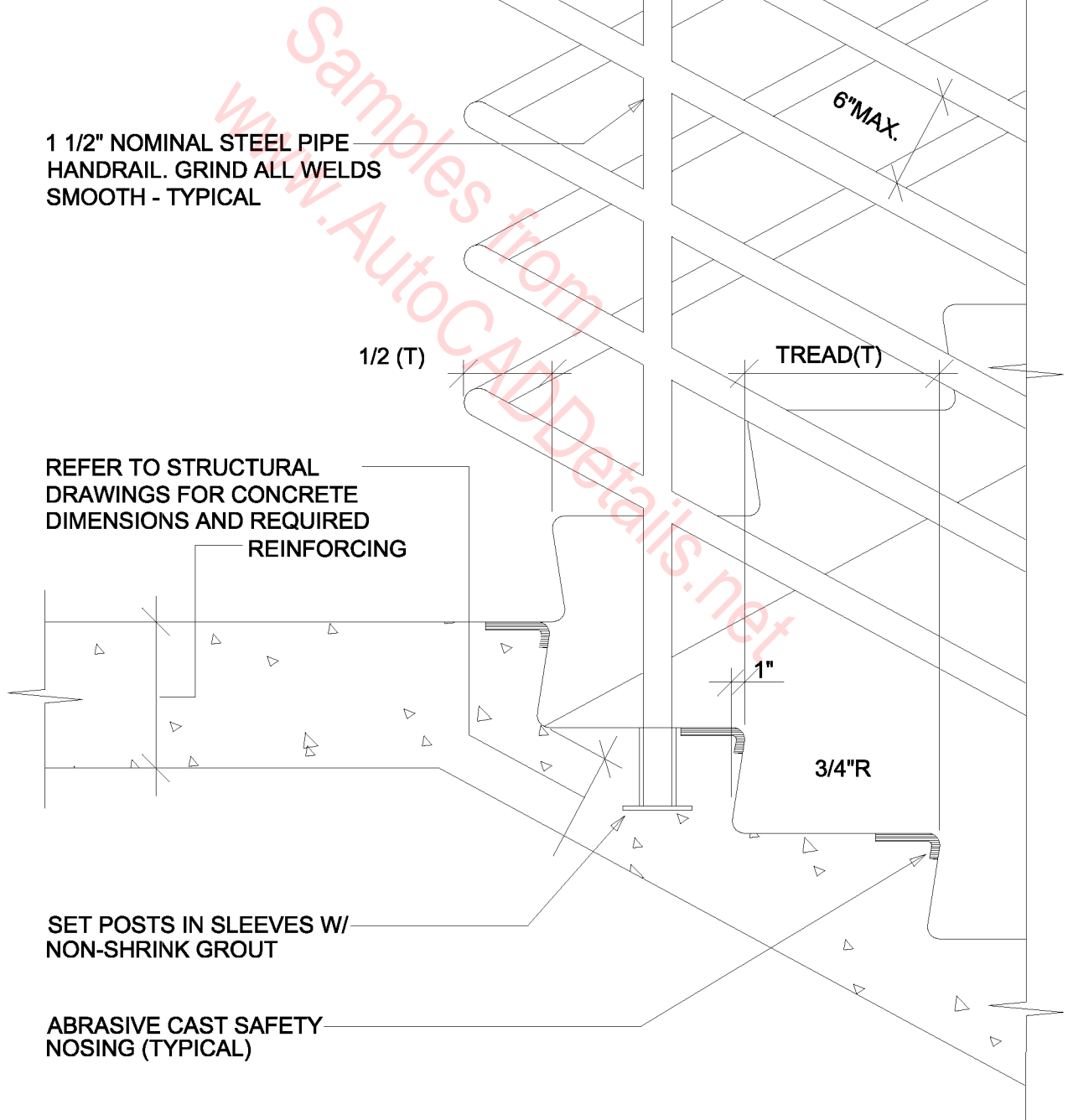
Watermark: Samples from www.AutoCADDetails.net



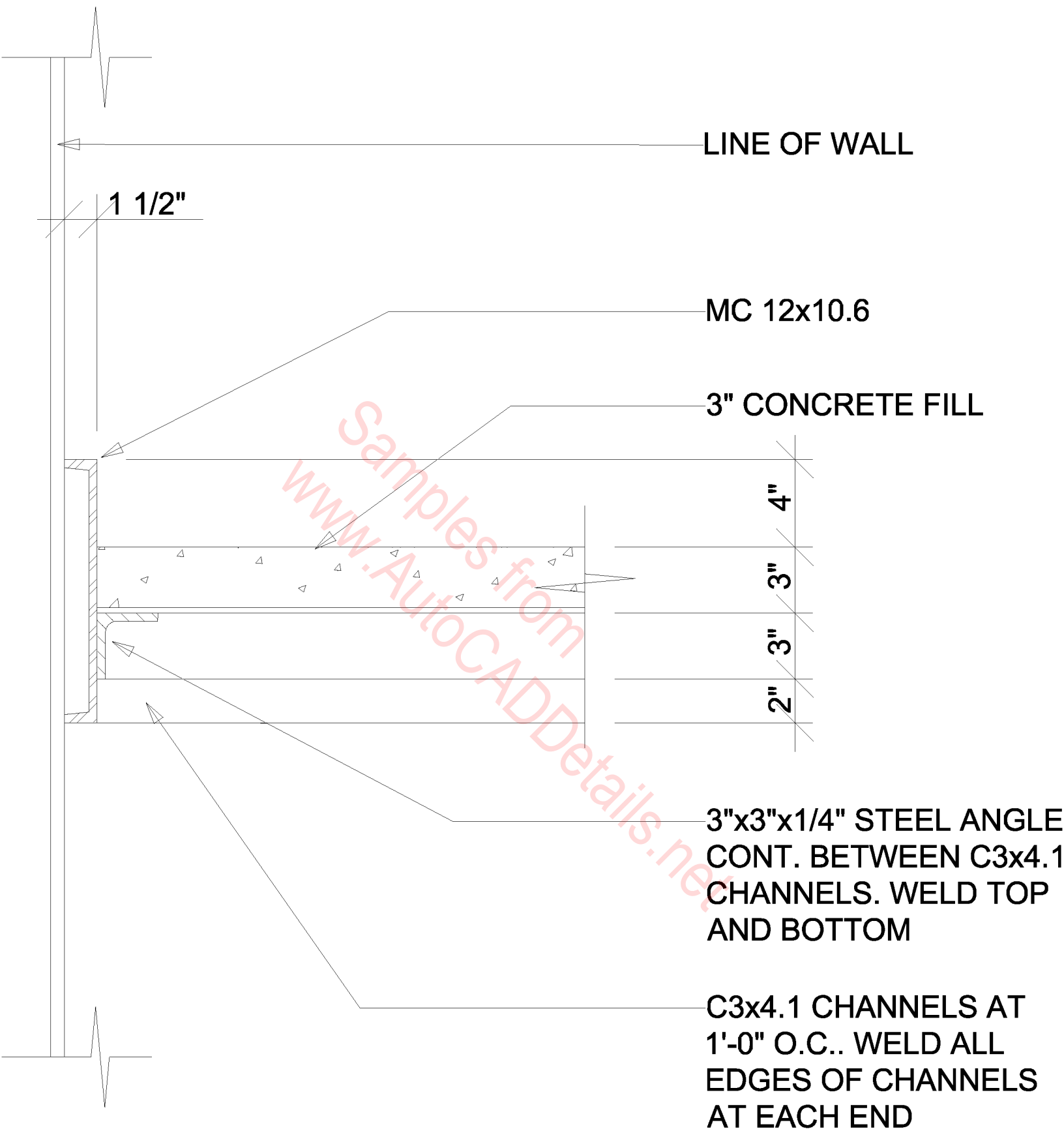


NOTE:
FOR TREAD AND RISER DIM'S.
SEE PLANS/SECTIONS

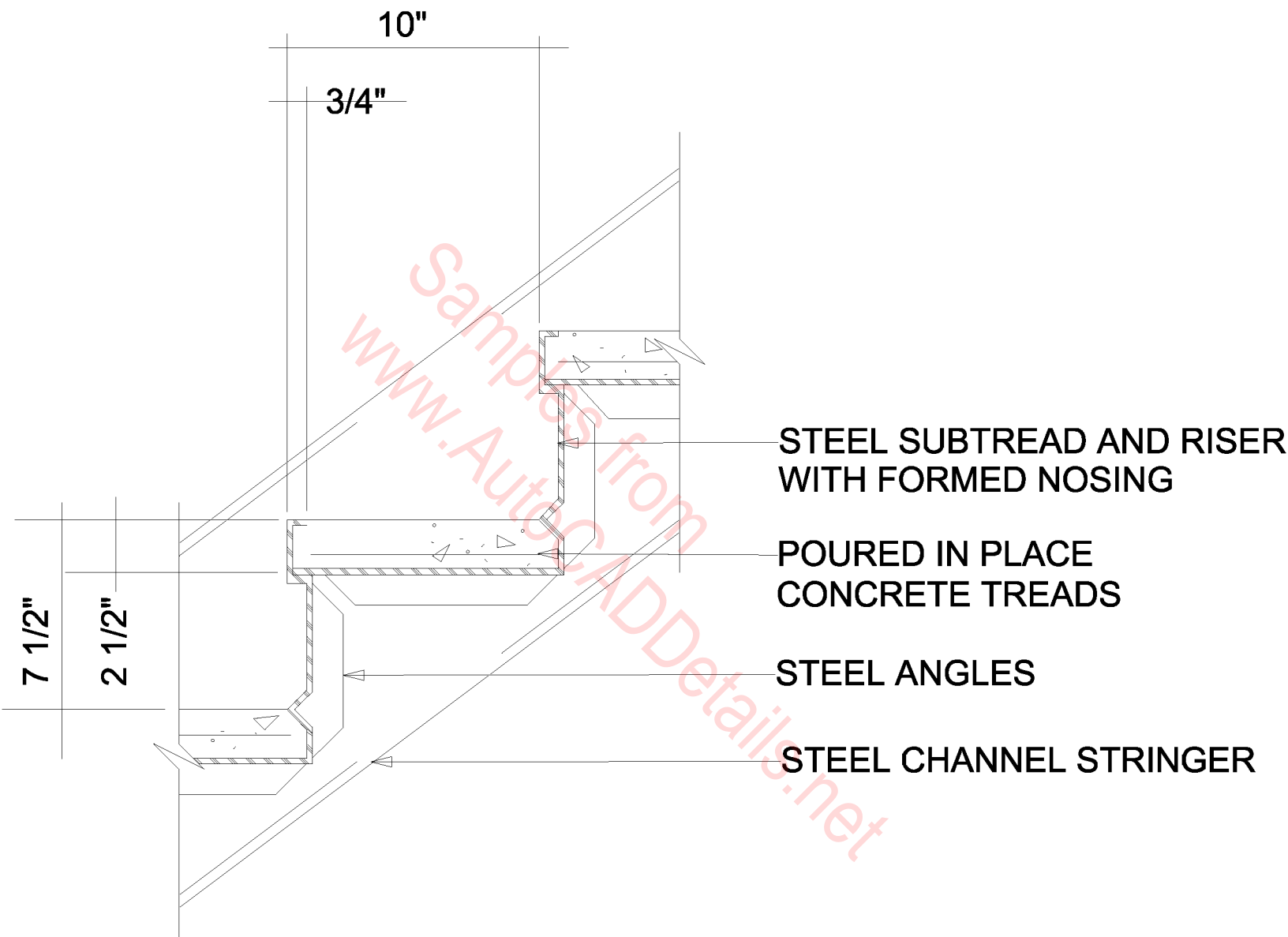
1 1/2" NOMINAL STEEL PIPE
HANDRAIL. GRIND ALL WELDS
SMOOTH - TYPICAL



LANDING AT CONCRETE STAIR



LANDING AT STEEL STAIR SECTION

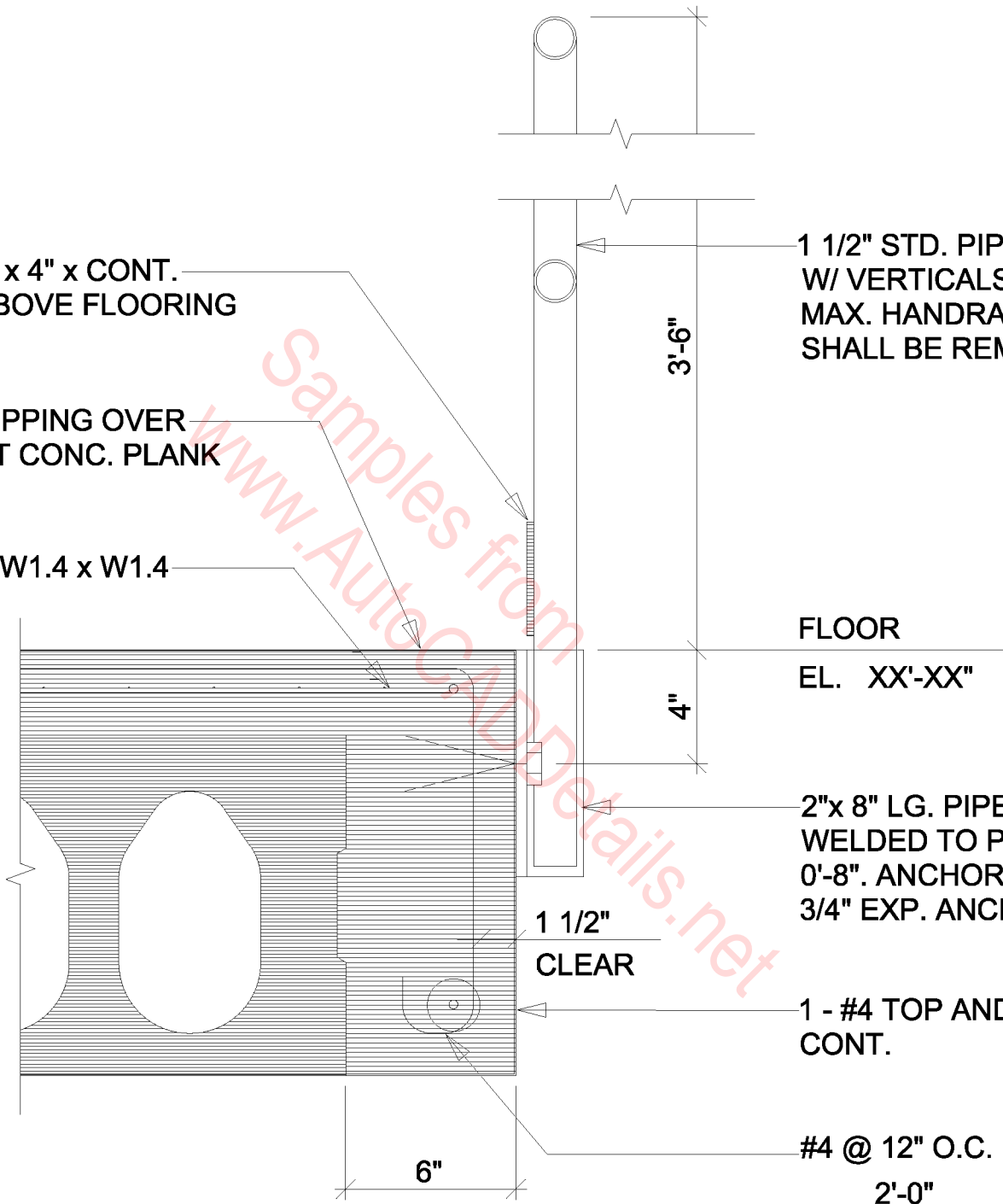


METAL STAIR- PAN TYPE

TOE PL. 1/4" x 4" x CONT.
HOLD 1/2" ABOVE FLOORING

3" CONC. TOPPING OVER
12" PRECAST CONC. PLANK

WWF 6 x 6 x W1.4 x W1.4
(10 GA.)



1 1/2" STD. PIPE HANDRAIL
W/ VERTICALS AT 5'-0" O.C.
MAX. HANDRAILS SECTIONS
SHALL BE REMOVABLE

FLOOR
EL. XX'-XX"

2"x 8" LG. PIPE SOCKET
WELDED TO PL. 3/8 x 8 x
0'-8". ANCHOR PL. W/ 2 -
3/4" EXP. ANCHORS

1 - #4 TOP AND BOTTOM
CONT.

#4 @ 12" O.C.
2'-0"

PIPE RAILING

REMOVABLE RAILING
SECTIONS - 1 1/2"
STD. PIPE HANDRAIL

CONT. 1/4" x 3 1/2"
HIGH TOE PL.

2 1/2" CONC. OVER
1 1/2" METAL DECK

CONT. 1/8" EDGE
CLOSURE PLATE -
WELD TO BEAM

2" x 4" LG. PIPE
SOCKET WELDED TO
PLATE

BEAM - SEE STRUCT.
DRAWINGS

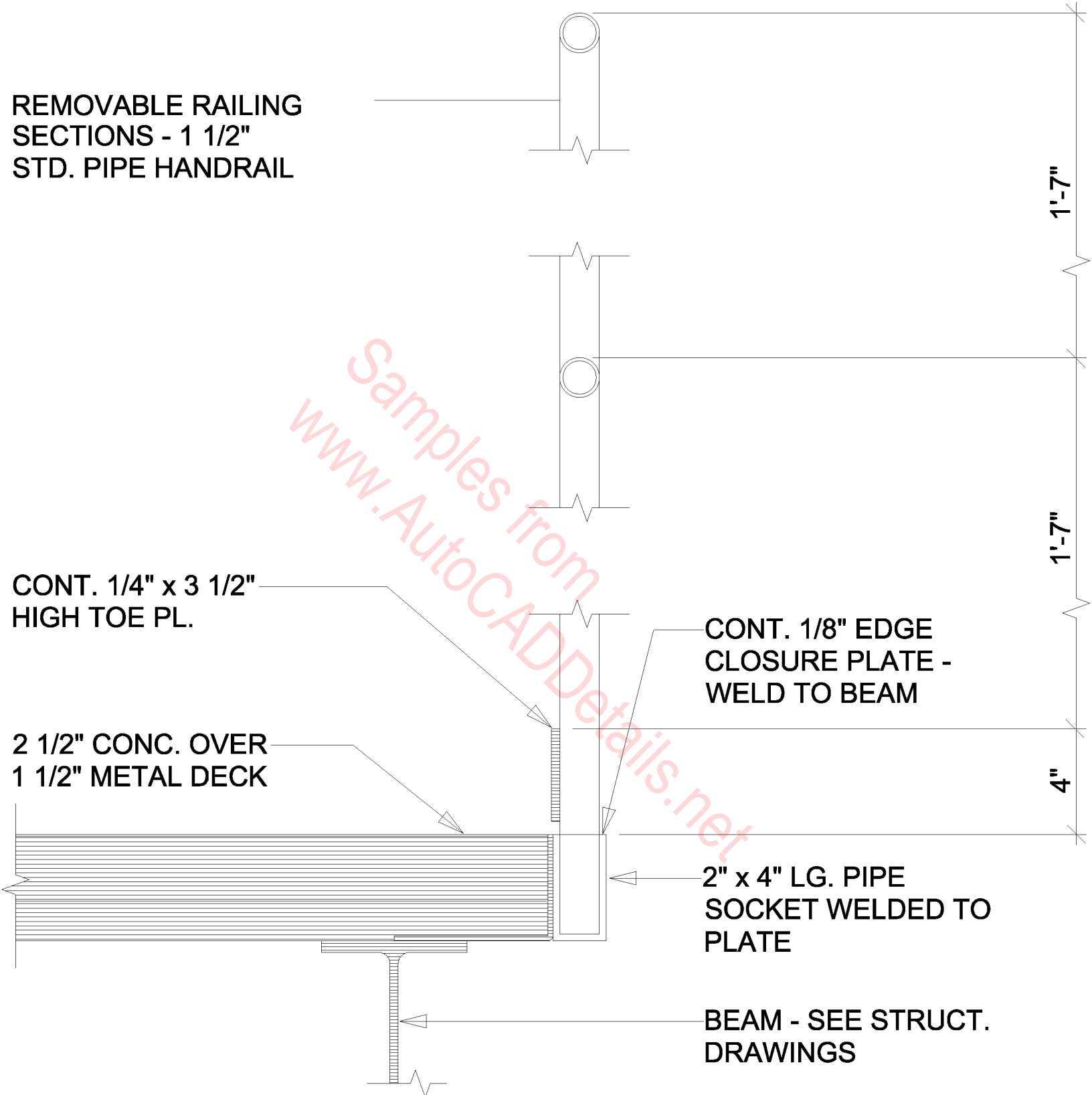
1'-7"

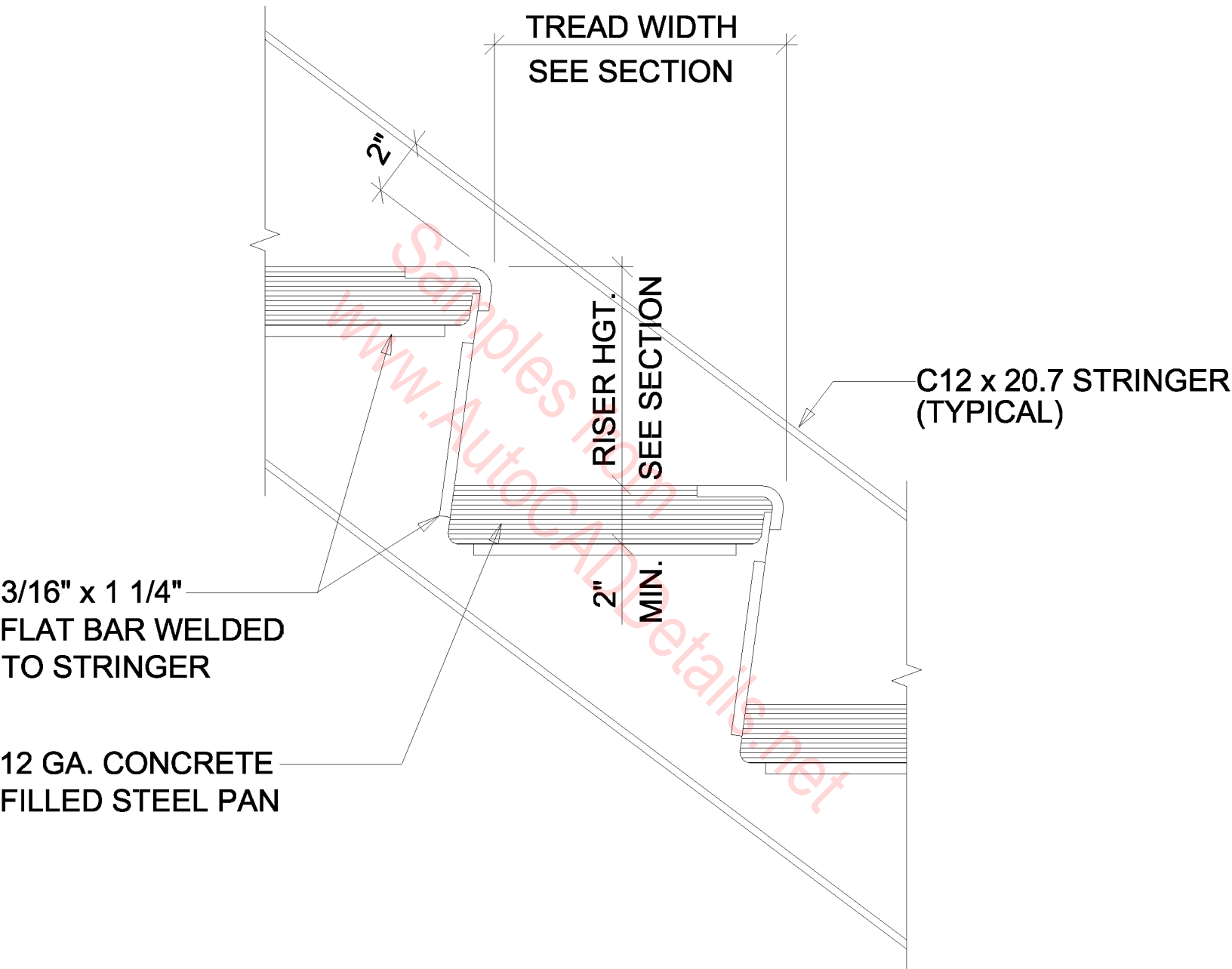
1'-7"

4"

RAILING

Samples from
www.AutoCADDetails.net

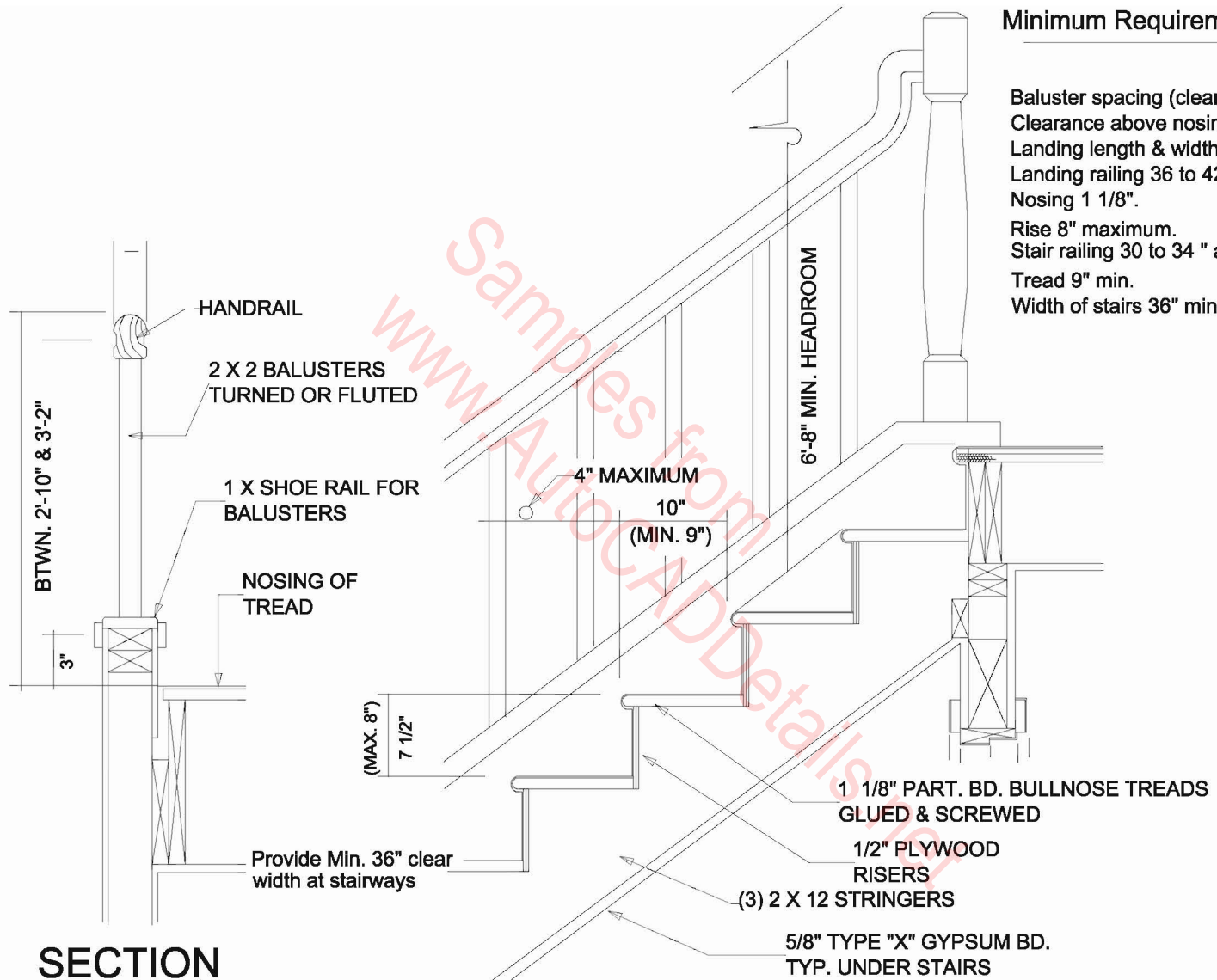




Riser & Tread

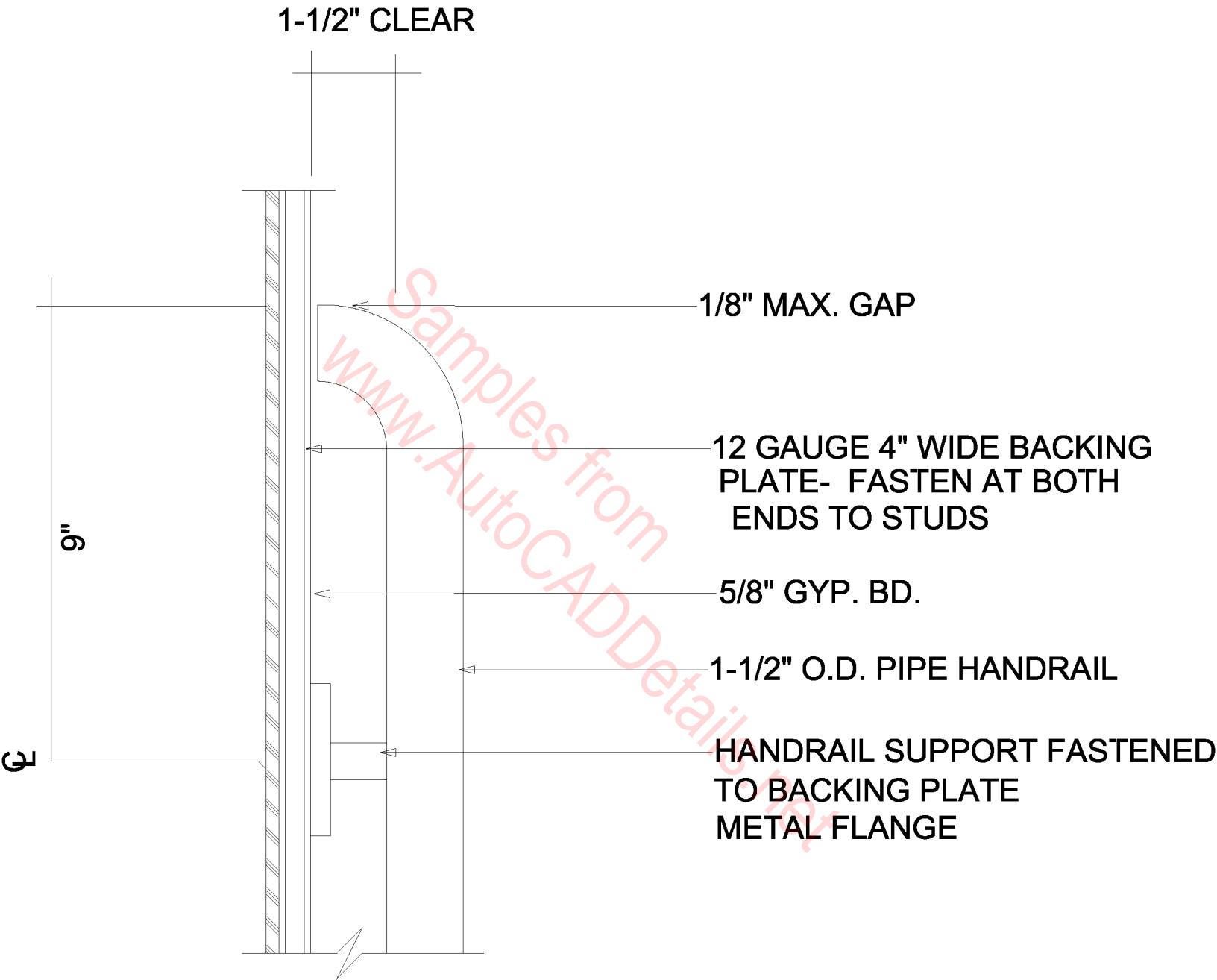
Minimum Requirements

- Baluster spacing (clear) 4" max.
- Clearance above nosing 6'6" min.
- Landing length & width equal to stair width.
- Landing railing 36 to 42 " above landing.
- Nosing 1 1/8".
- Rise 8" maximum.
- Stair railing 30 to 34 " above nosing.
- Tread 9" min.
- Width of stairs 36" min.

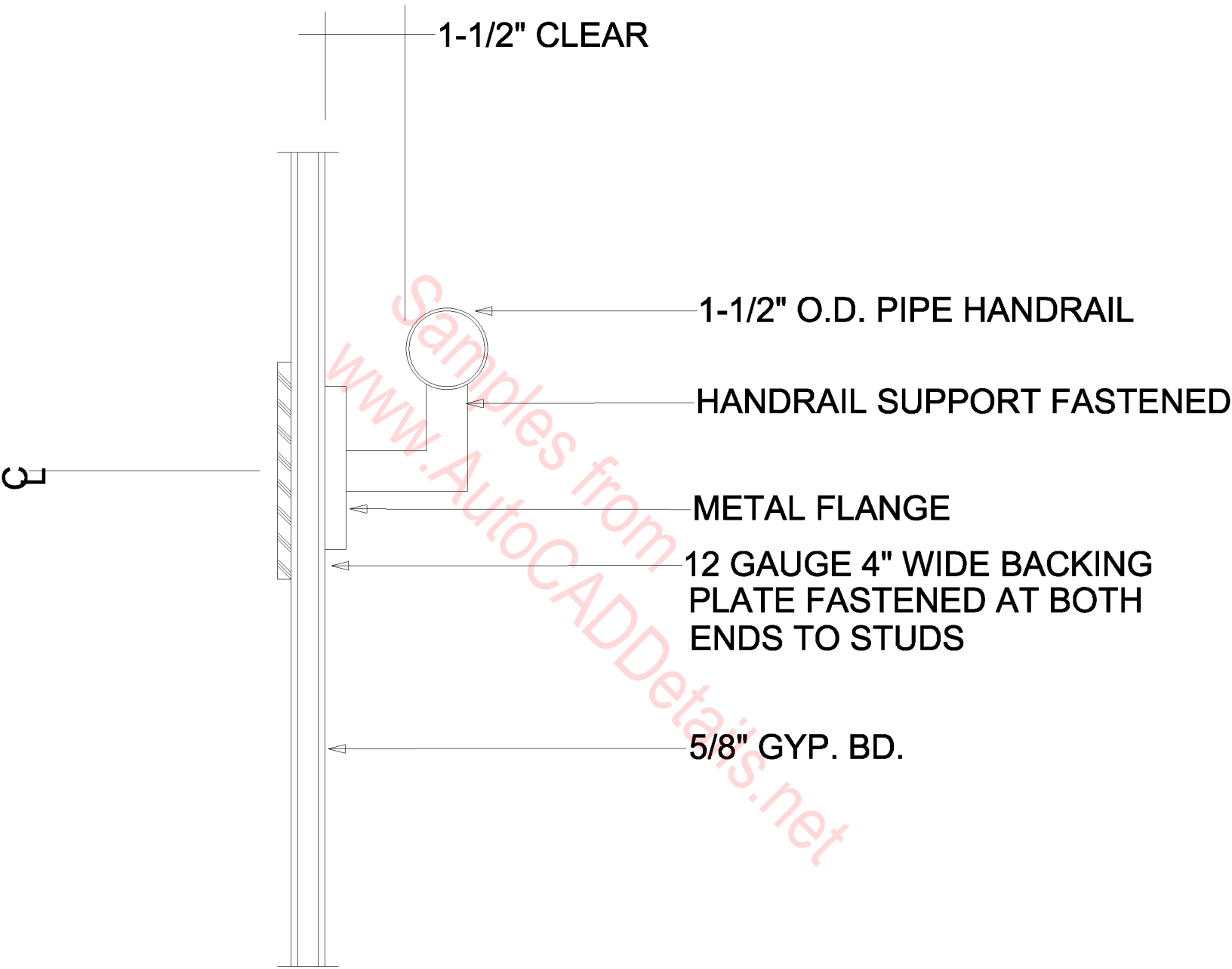


SECTION

STAIR DETAIL



STAIR HANDRAIL- PLAN



STAIR HANDRAIL- SECTION

NOTE:
 1 1/2" NOMINAL STEEL PIPE
 HANDRAIL. GRIND ALL WELDS
 SMOOTH - TYPICAL

1 1/2" NOMINAL STEEL PIPE
 HANDRAIL AND GUARDRAIL
 TERMINATE HORIZ. GUARD
 RAILS AT VERT. POST 6" MAX.
 FROM WALL

MC12x10.6 STEEL CHANNEL
 BEYOND AT WALL FACE

MC12x10.6 STEEL CHANNEL
 HEADER AT LANDING COVER
 PLATE - EXTEND TO WALL

3/16" DIAMOND PL. STEEL
 DECK (WELD TO PURLINS)

3'-6"

5 EQUAL SPACES

6" MAX.

6"

TREAD

RISER

2'-10"

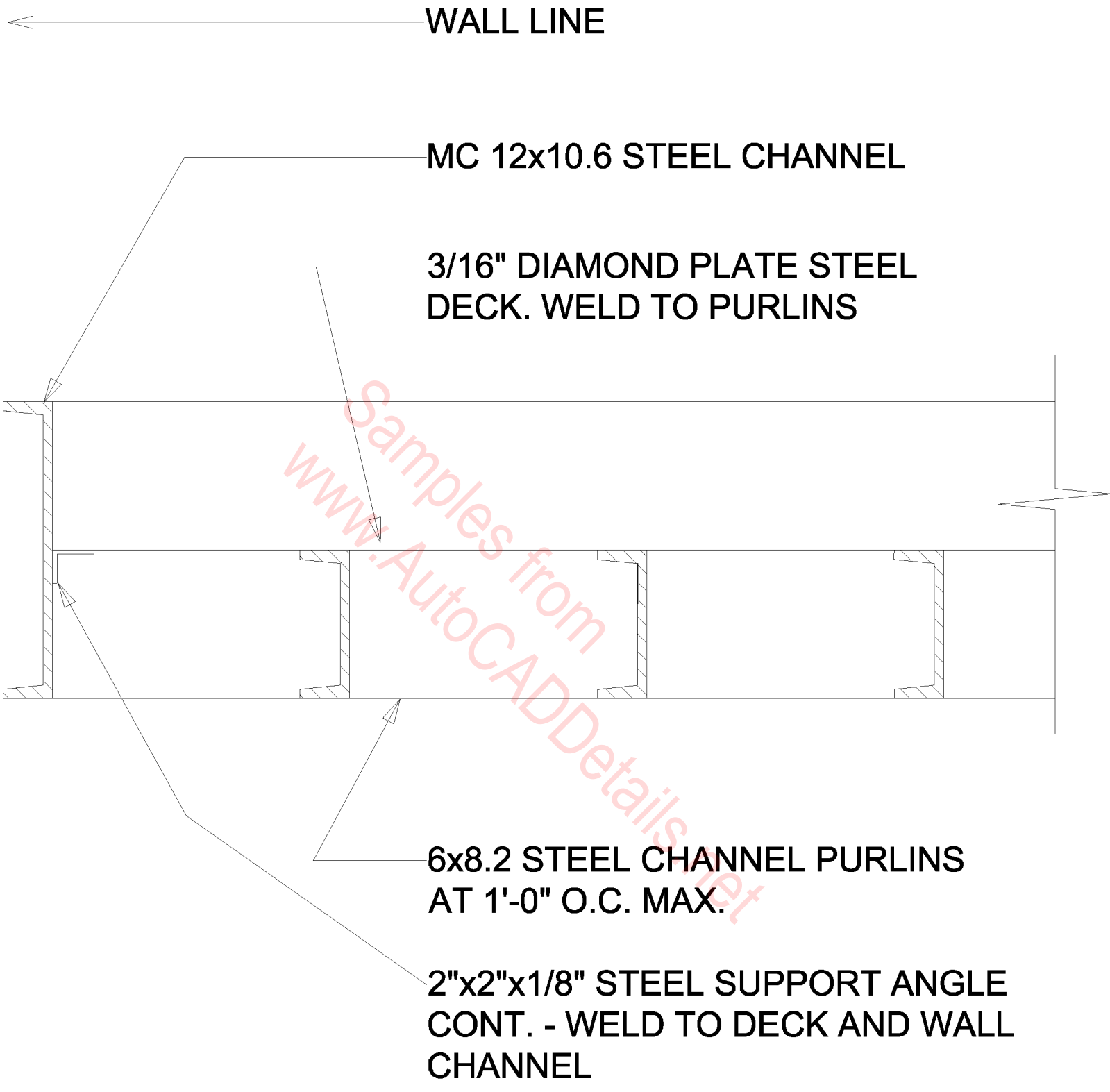
6x8.2 STEEL CHANNEL PURLINS
 AT 1'-0" O.C. MAX.

3/16" DIAMOND PL. PREFORMED
 STEEL TREADS AND RISERS W/
 3/16"x1 1/4"x14" STL. STRAP FORMED
 TO BOTTOM OF TREADS/RISERS.
 WELD CONT. TO STRINGER, RISER,
 AND TREAD (TYPICAL)

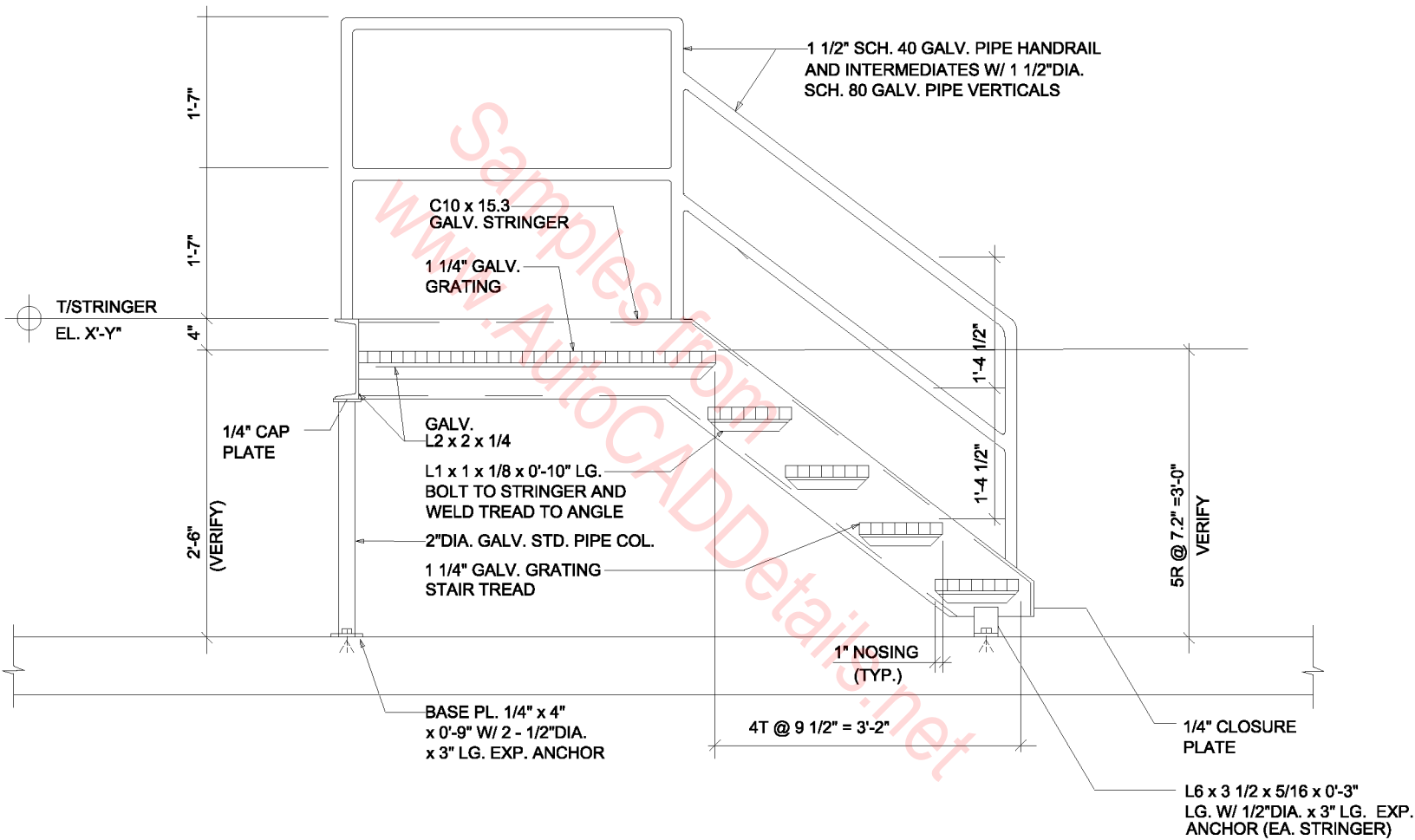
MC12x10.6 STL. CHANNEL STRINGER

NOTE:
 FOR TREAD AND RISER DIM'S.
 SEE PLANS/SECTIONS

STAIR LANDING AT STEEL



**STAIR LANDING AT STEEL
PLATE STAIR - SECTION**



STEEL STAIRS

1 1/2" STD. PIPE HANDRAIL

1/4" CLOSURE PLATE

3" CONC. TOPPING OVER
12" PRECAST CONC. PLANK

WWF 6 x 6 x W1.4 x W1.4
(10 GA.)

1 - #4 TOP & BOTTOM
CONT.

#4 @ 12" O.C.

2'-0"

SPECIFIED FIGERGLAS GRATE
STAIR TREAD W/ ABRASIVE
NOSING

C12 x 20.7 STRINGER

PL. 3/8" x 6" HIGH x CONT.
W/ 3/4" EXP. BOLTS AT
8" O.C.

L1 1/2 x 1 1/2 x 3/16
(TYPICAL)

1 1/2"
CLR.

6"

4"

1"

STEEL STRINGER

www.AutocADDetails.net



COPE STRINGER
AT DOORWAY

X

H.M. FRAME AND
DOOR

4" CONC. TOPPING
OVER STRUCT. SLAB

FIRST FLOOR
EL. 0'-0"

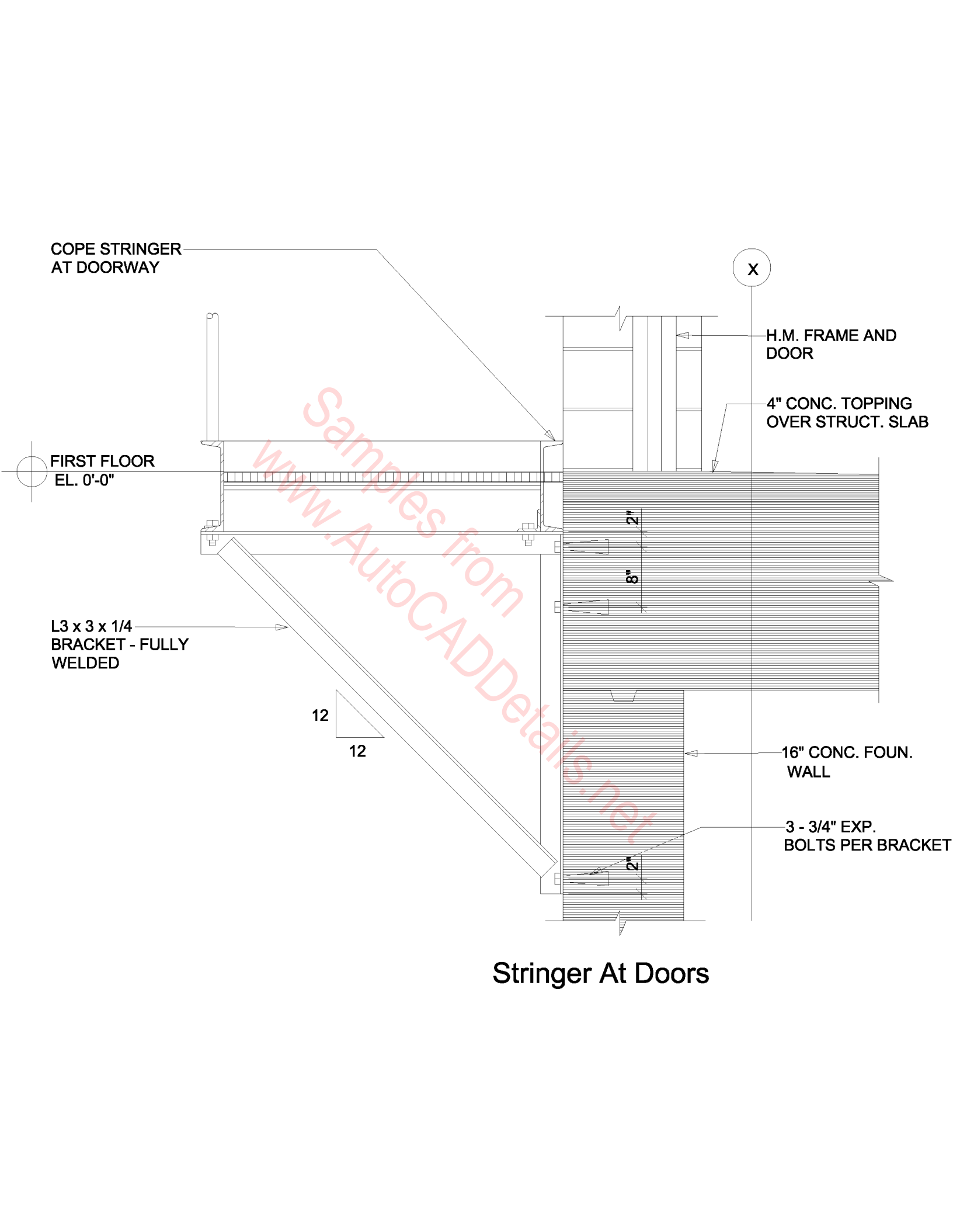
L3 x 3 x 1/4
BRACKET - FULLY
WELDED

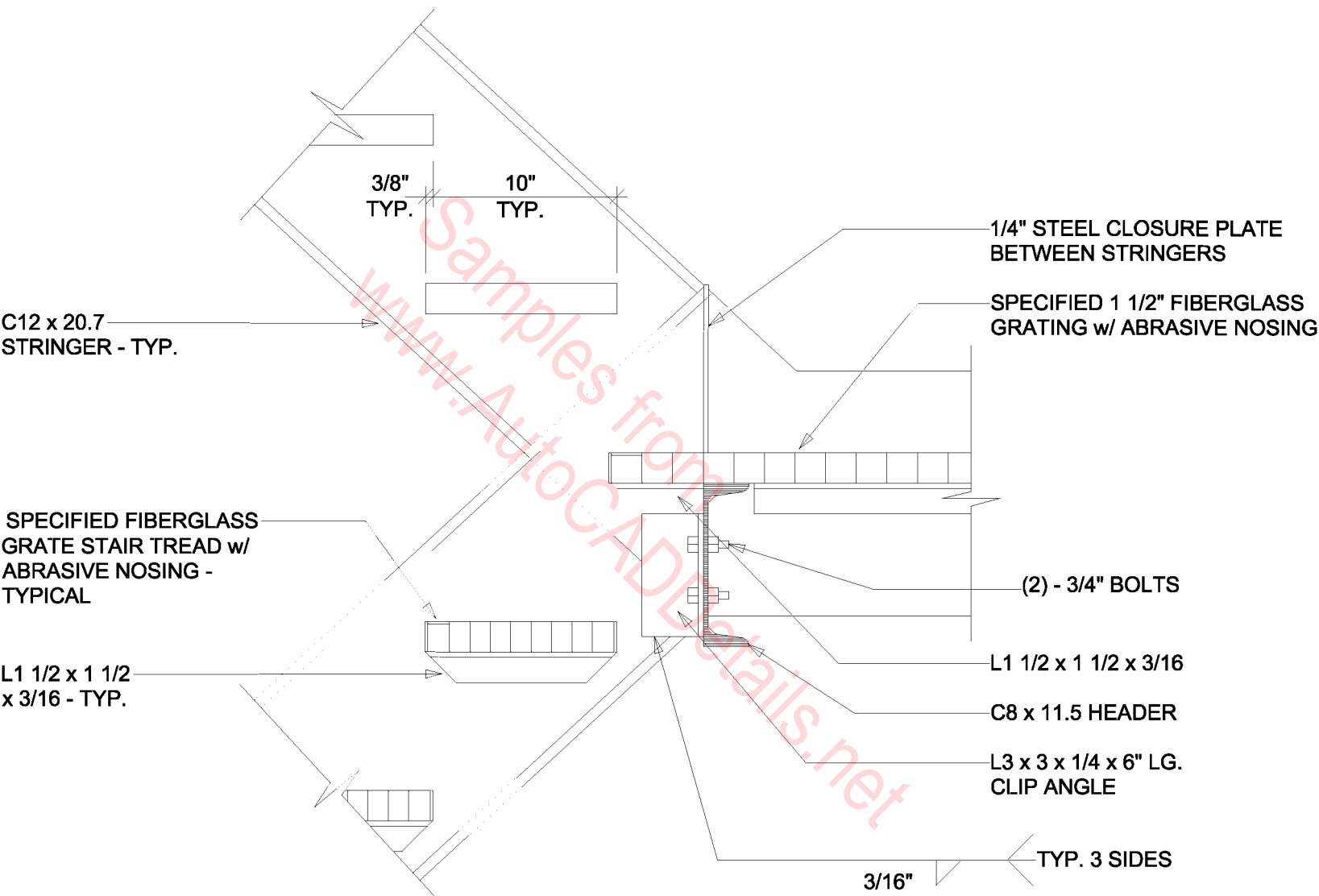
12
12

16" CONC. FOUN.
WALL

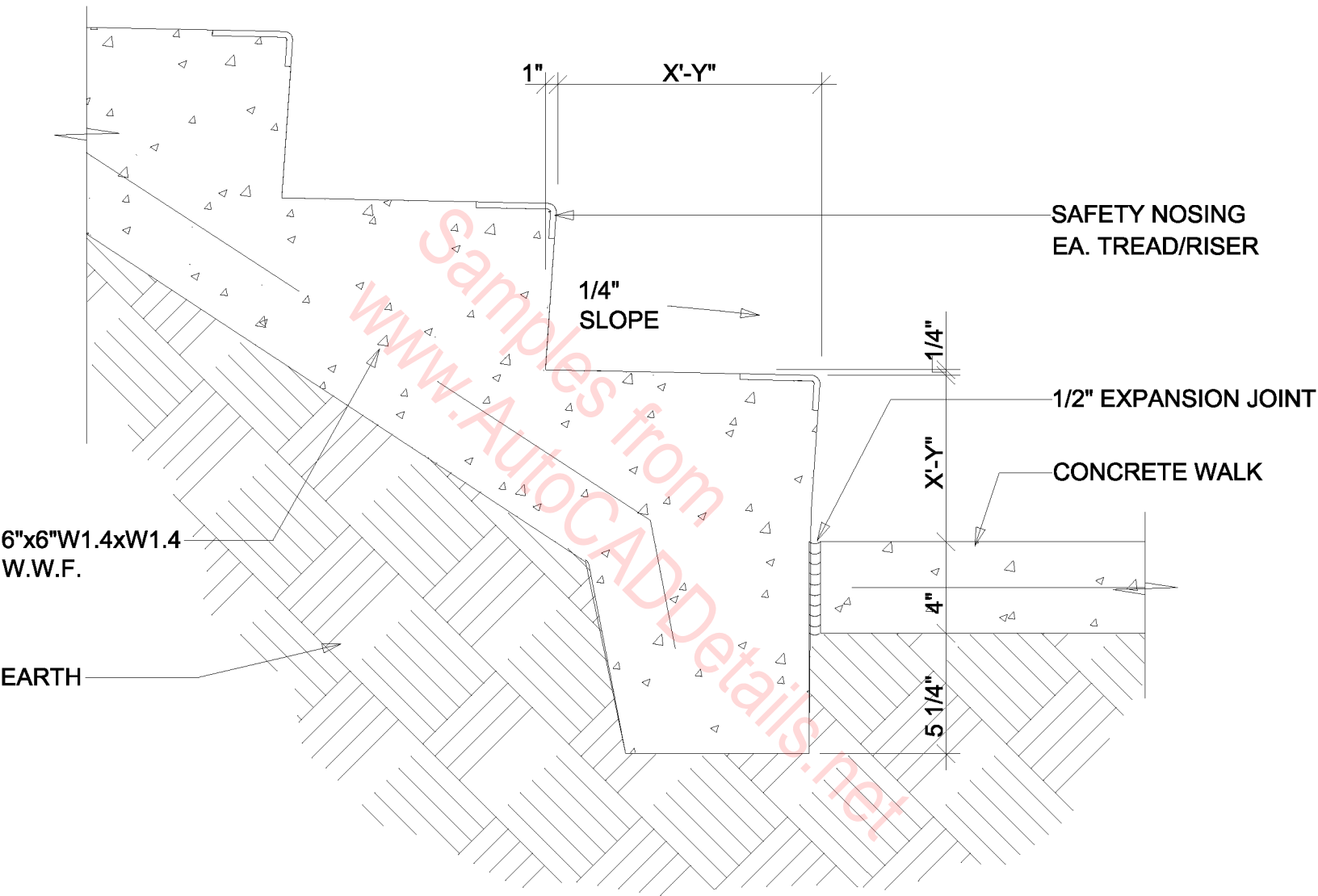
3 - 3/4" EXP.
BOLTS PER BRACKET

Stringer At Doors

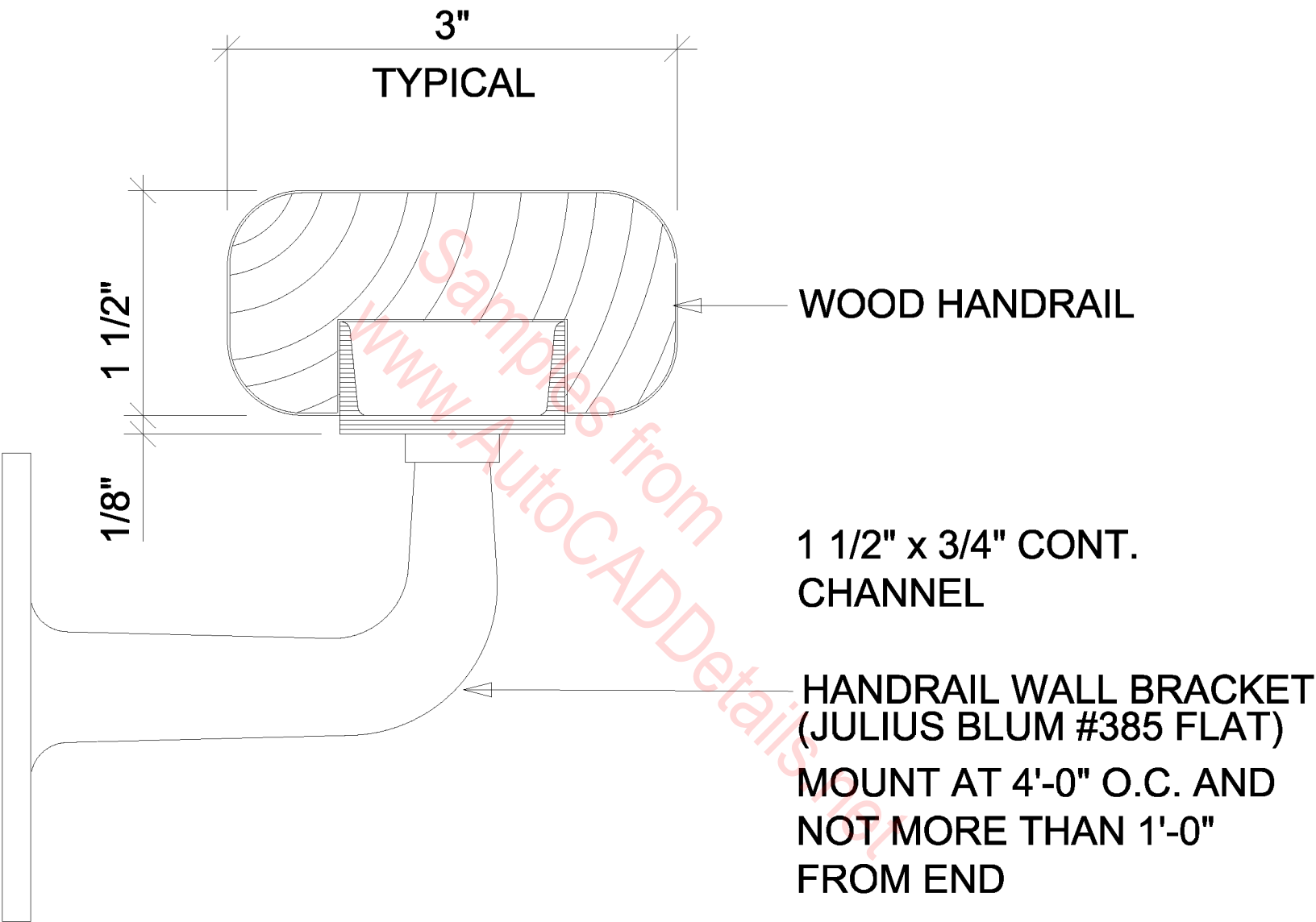




STRINGER



TYPICAL CONCRETE STAIR



Wooden Handrail