

GENERAL DATA

Occupancy Group: Unoccupied fire training simulator/nonbuilding structure
Construction Type: Type II-B
Area: 2541 sq. ft.
Height: 30 ft
Stories: 3
Allowable Area: N/A
Fire Sprinkler: N/A

COLORS SELECTED:

BUILDING COLOR: CREAM BEIGE
WINDOW AND DOOR TRIM COLOR: DESERT TAN
EXTERIOR DOOR OTHER THAN BURN DOORS: BRONZE
NOTE: Burn room doors and all shutters are Galvanized Steel

DRAWING INDEX

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PAGE 19 – STAIR DETAILS

DESIGN LOADS:

FLOOR LIVE LOAD: 100 PSF
ROOF LIVE LOAD: 100 PSF
WIND LOAD: 130 MPH; EXP C; RISK CAT. I
SEISMIC DESIGN CAT: A
SITE CLASS: D
DESIGN CODE: FBC 2014 AND NFPA 1402

NFPA 1402 is the Guide to Building Fire Service Training Centers. Chapter 1.3 states the following “Some of the structures in a fire training facility are designed to be training props and are not required to meet all of the requirements of the jurisdiction’s building codes. However, the structural integrity of all props must be assured.”

MATERIAL SPECIFICATIONS:

W SHAPES: ASTM A992 (Fy = 50 ksi).
HSS: ASTM A500 (GRADE B).
PLATES: ASTM A36 OR ASTM A572 (GRADE 50).
ANGLES: ASTM A36.
C SHAPES: ASTM A36.
BOLTS: ASTM A325N.
LIGHT GUAGE STEEL: ASTM A653 OR ASTM A924.
WELDS Field Welding Not Required; Shop Electrodes E71T-1

SPECIAL INSPECTIONS
(cont. reports required for submittal to city inspector):

- HIGH STRENGTH BOLTS
- REINF. CONC W/ F’c > 2.5ksi
- WELDING – NO FIELD WELDING REQUIRED

INSPECTIONS FOR REINF. CONCRETE SHALL TAKE PLACE PRIOR/DURING FOUNDATION CONSTRUCTION AND INSPECTIONS FOR HIGH STRENGTH BOLTS DURING SUPERSTRUCTURE PLACEMENT.

REVISIONS	by

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EXHIBIT D

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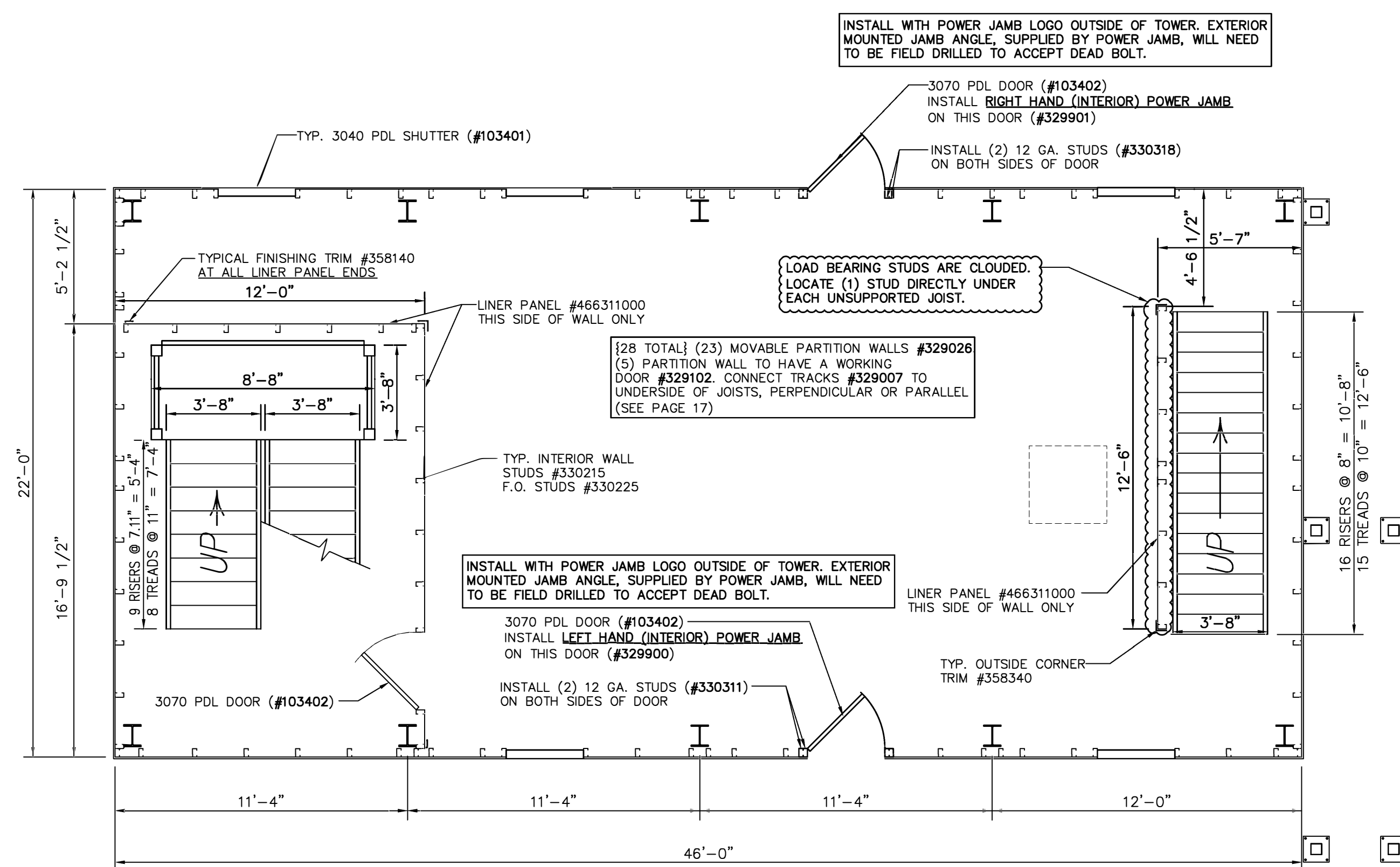


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Job Description: WESCO MODEL HC-1 CUSTOM LITHIA, FL	Sheet Title: TITLE: PAGE

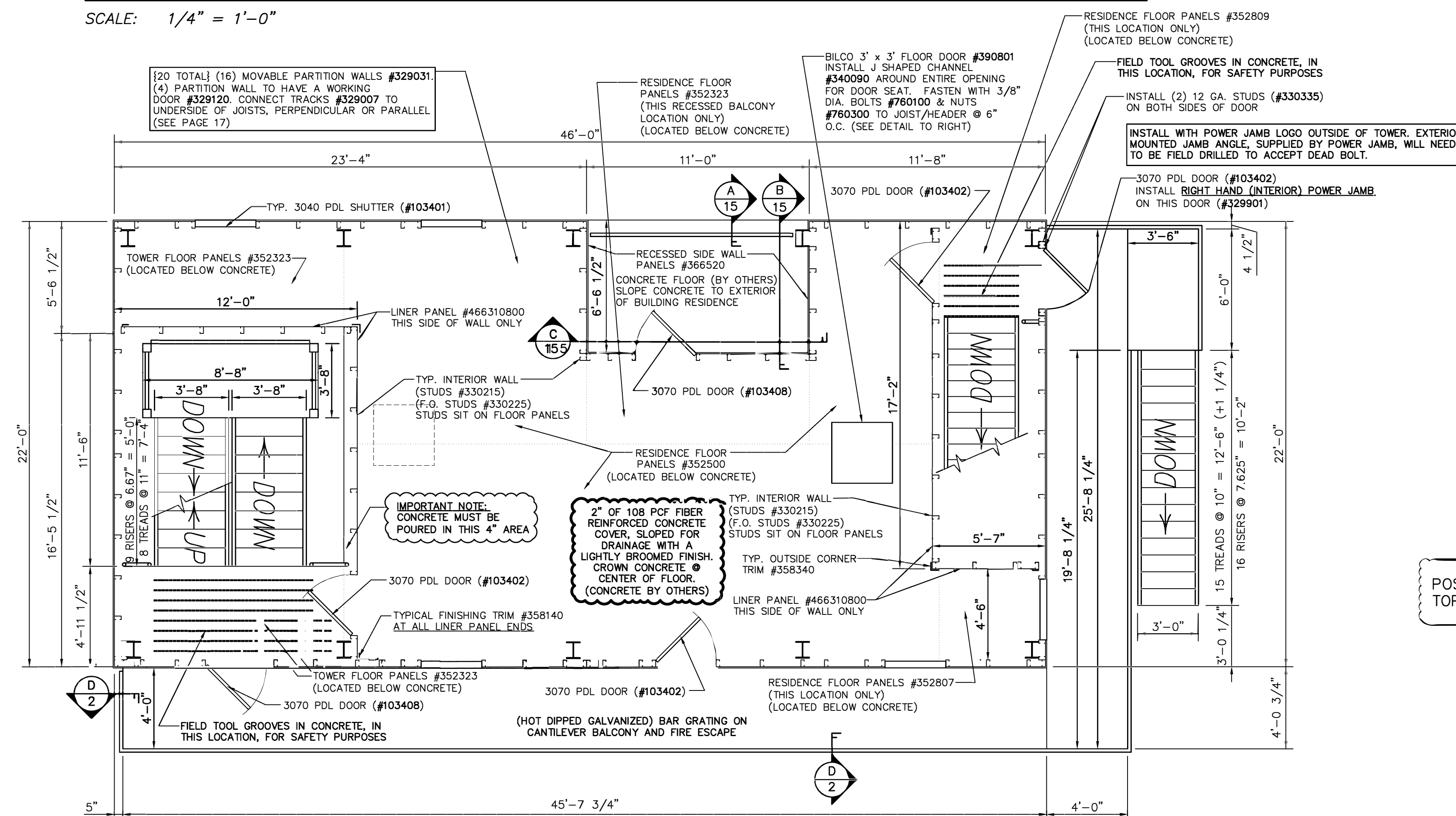
Date:	MARCH 5, 2018
Drawn by:	GWL
Checked by:	SPW
Scale:	SHOWN
Order No.	TTS-105/#199204
Sheet No.	

NOTE: ALL SHUTTERS ARE PDL #103401 AND SWING IN
ALL DOORS ARE SET AT FINISHED FLOOR UNLESS OTHERWISE SHOWN



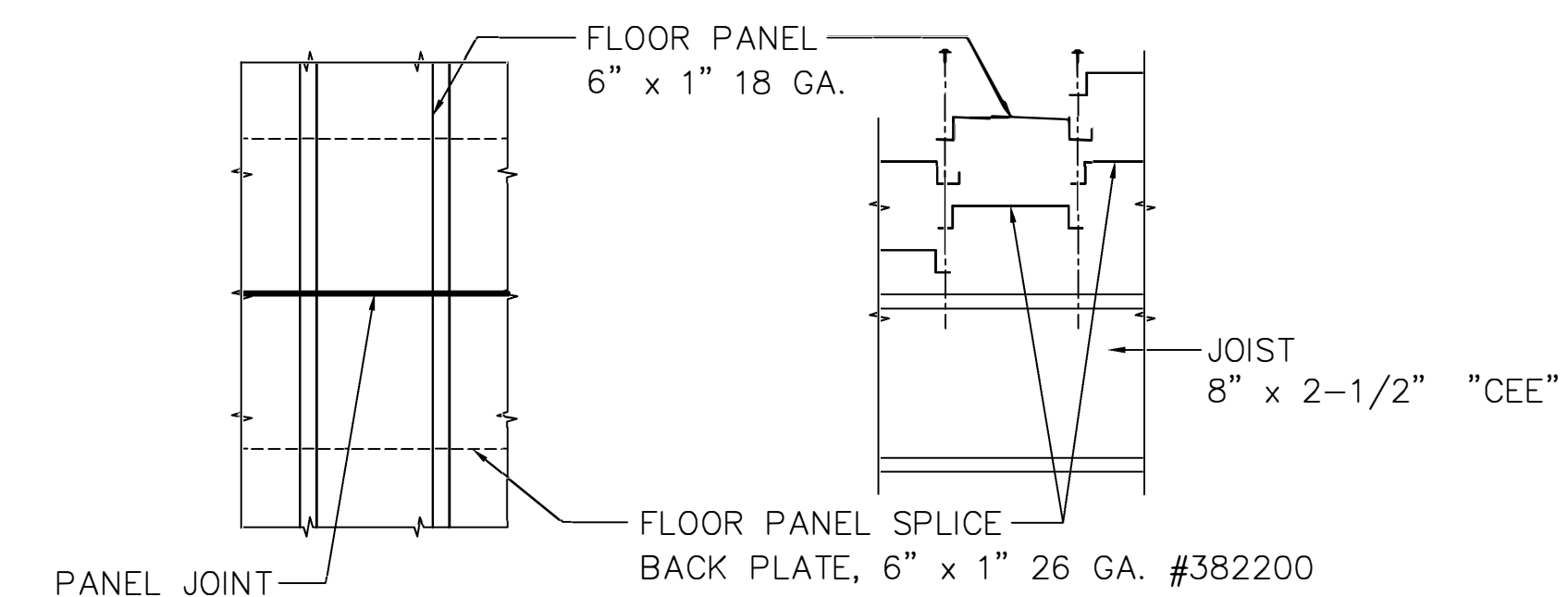
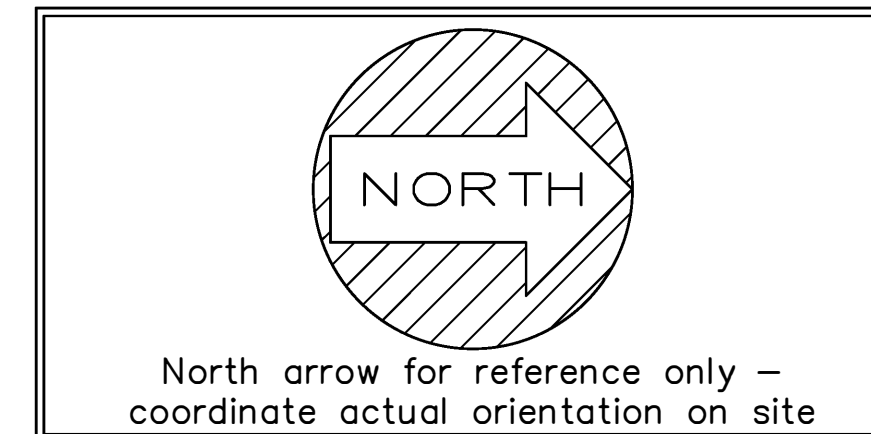
FIRST FLOOR PLAN

SCALE: $1/4" = 1'-0"$



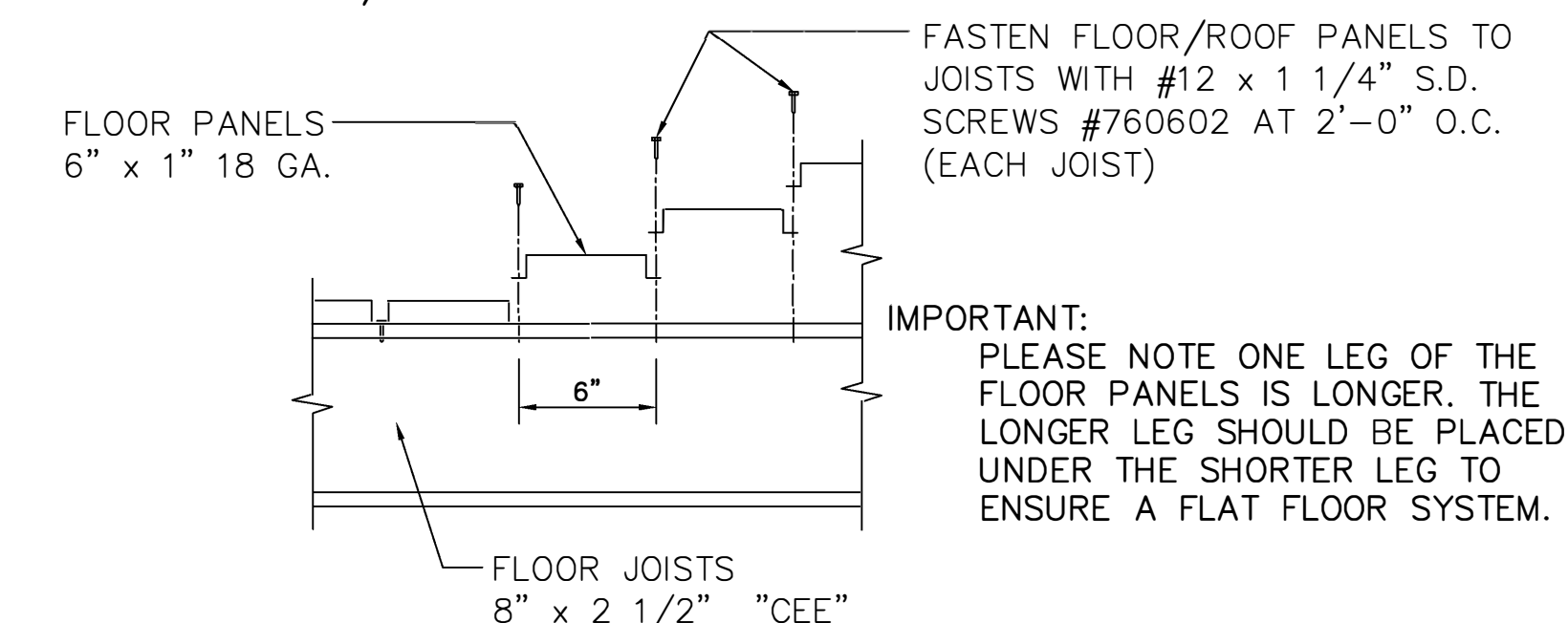
SECOND FLOOR PLAN

SCALE: $1/4" = 1'-0"$



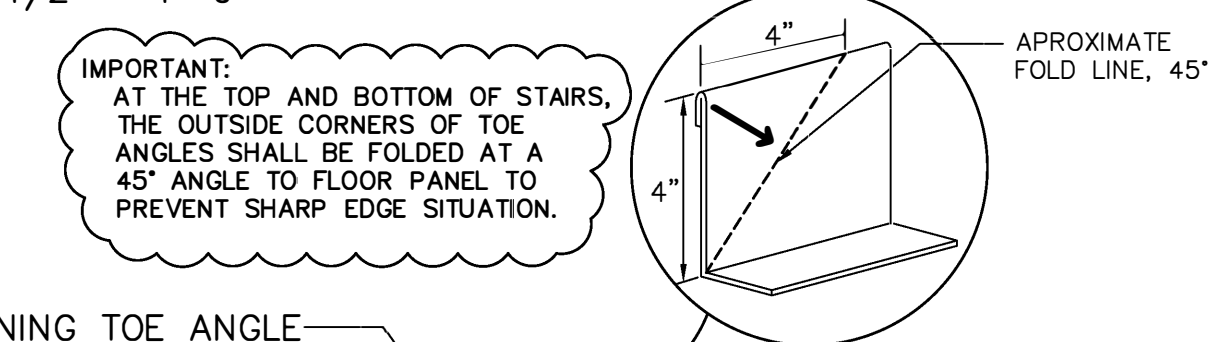
FLOOR PANEL SPLICE PLATE

scale: $1 \frac{1}{2}'' = 1'-0''$

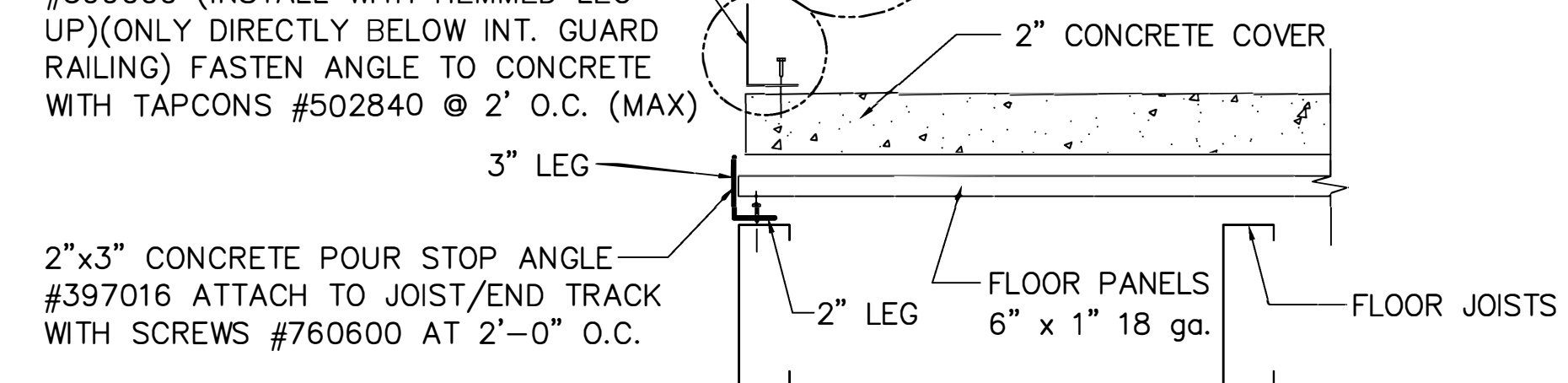


TYPICAL FLOOR PANEL FASTENING DETAIL

scale: $1 \frac{1}{2}'' = 1'-0''$

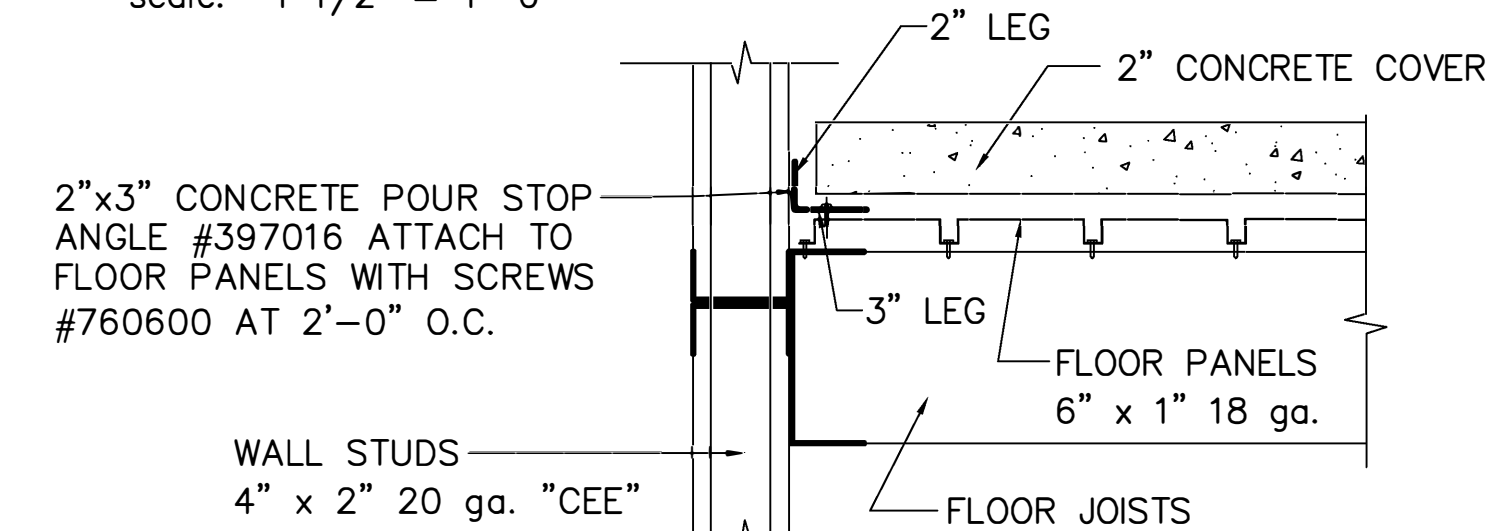


INSTALL FLOOR OPENING TOE ANGLE—
#399000 (INSTALL WITH HEMMED LEG
UP)(ONLY DIRECTLY BELOW INT. GUARD
RAILING) FASTEN ANGLE TO CONCRETE
WITH TAPCONS #502840 @ 2' O.C. (M



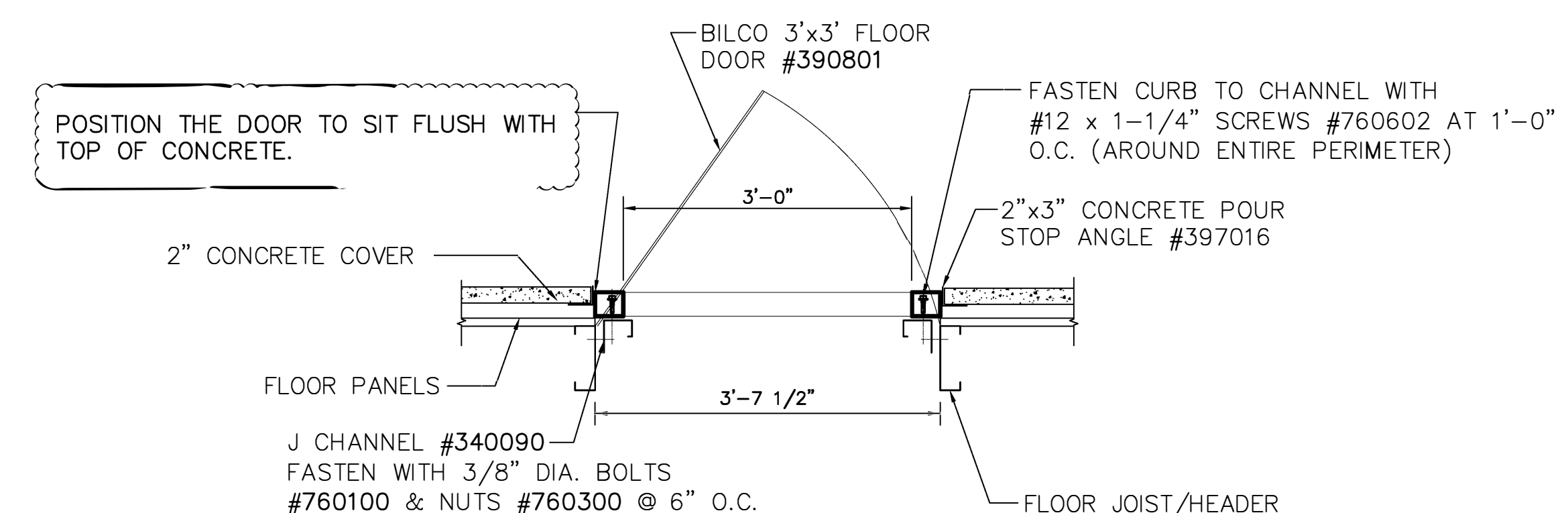
TYPICAL FLOOR OPENING TRIM DETAIL

scale: 1 1/2" = 1'-0"



TYPICAL FLOOR EDGE TRIM DETAIL

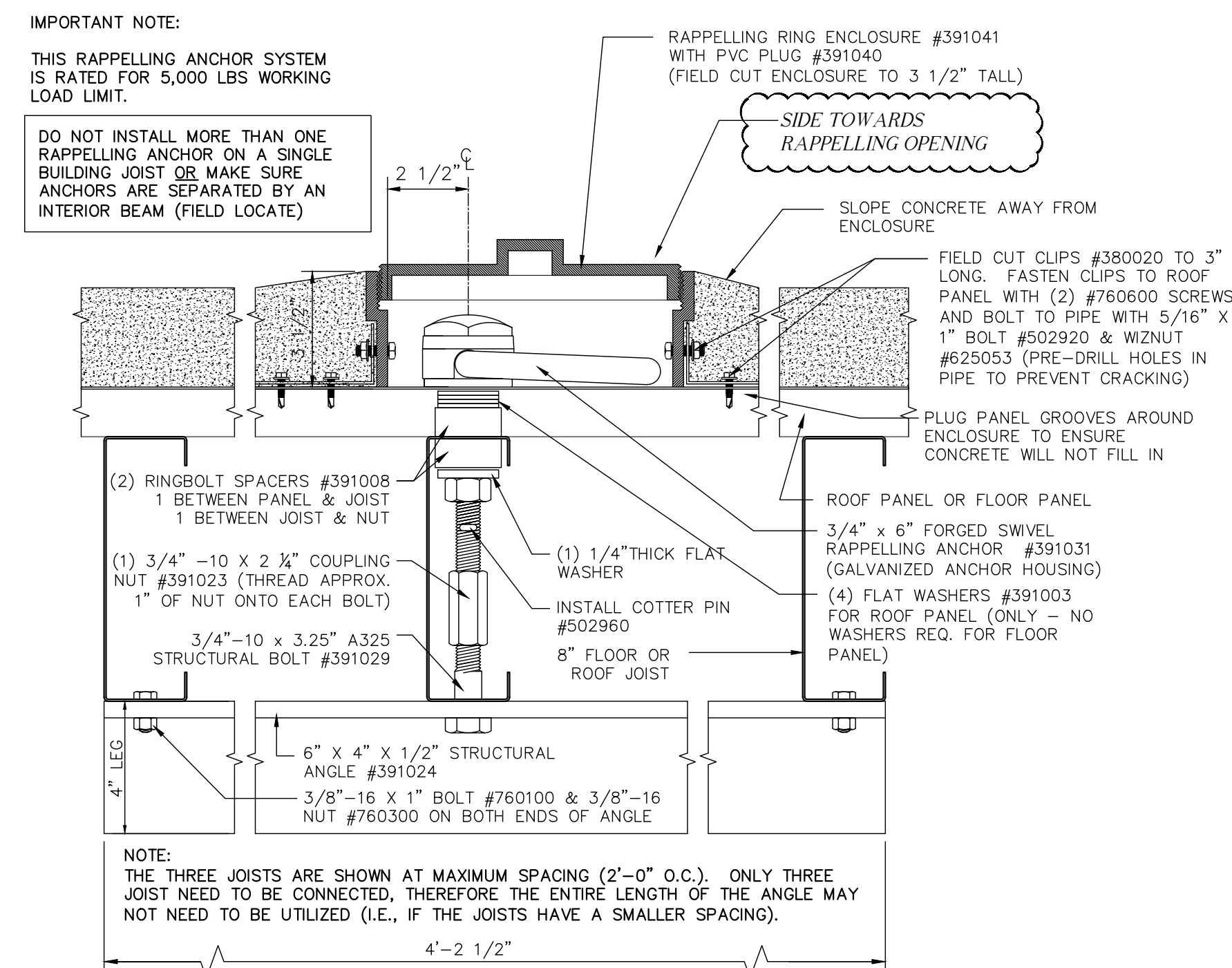
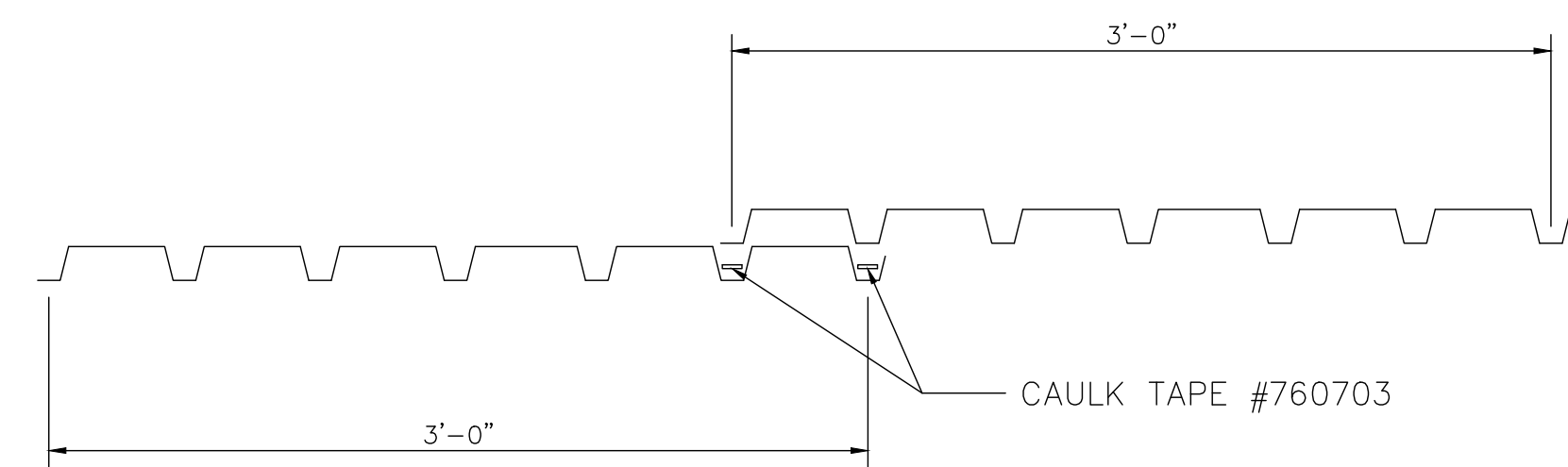
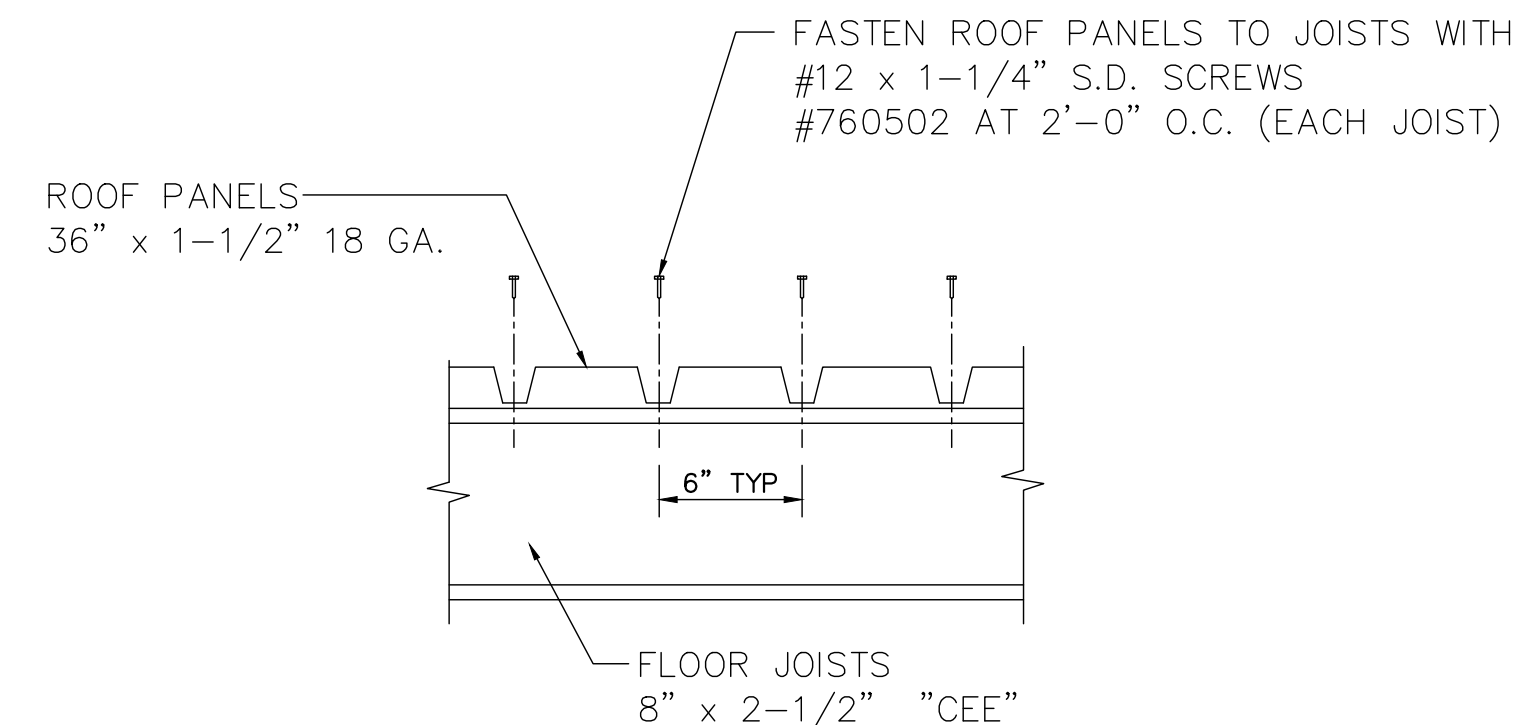
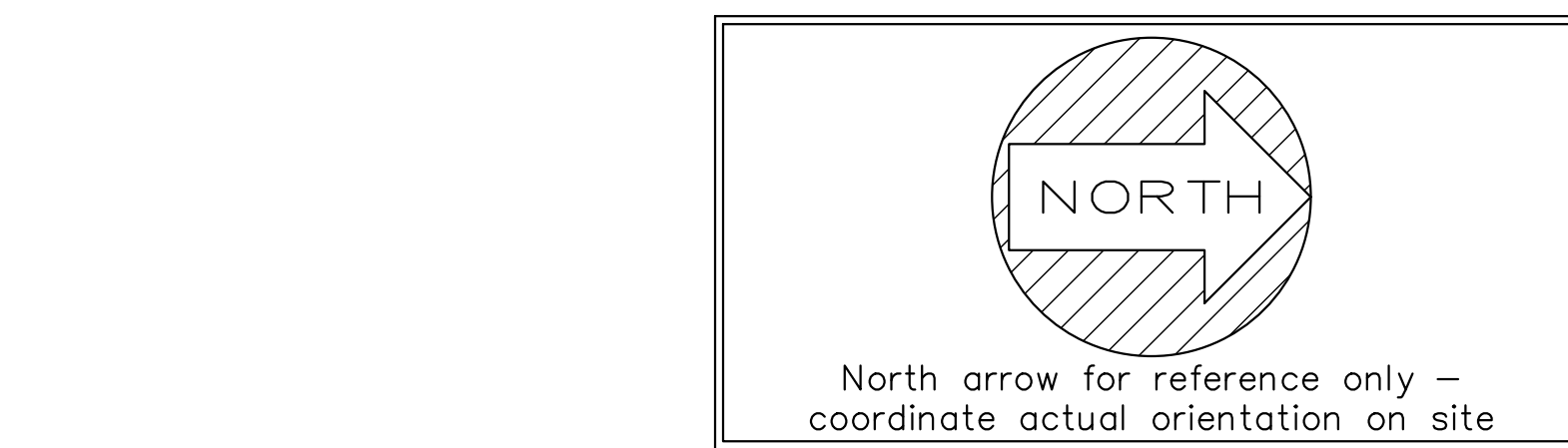
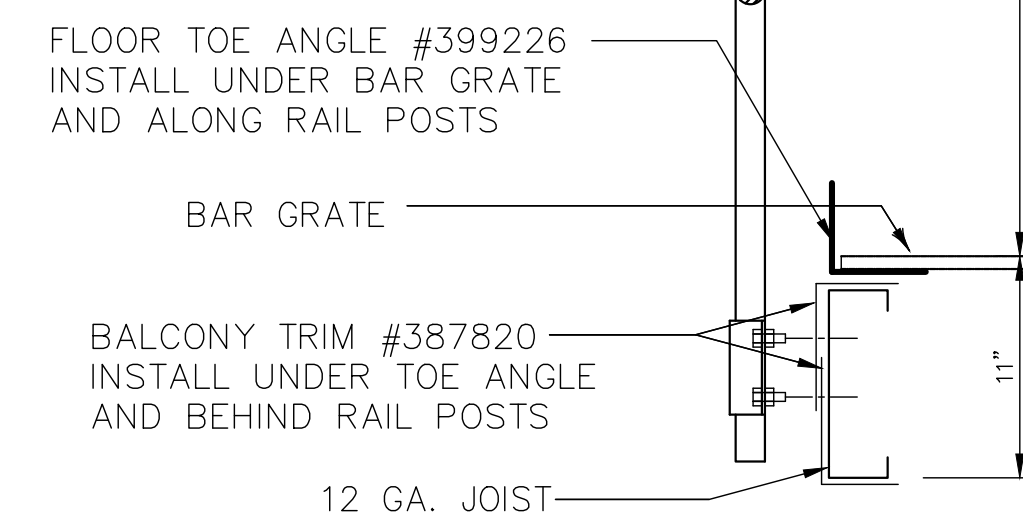
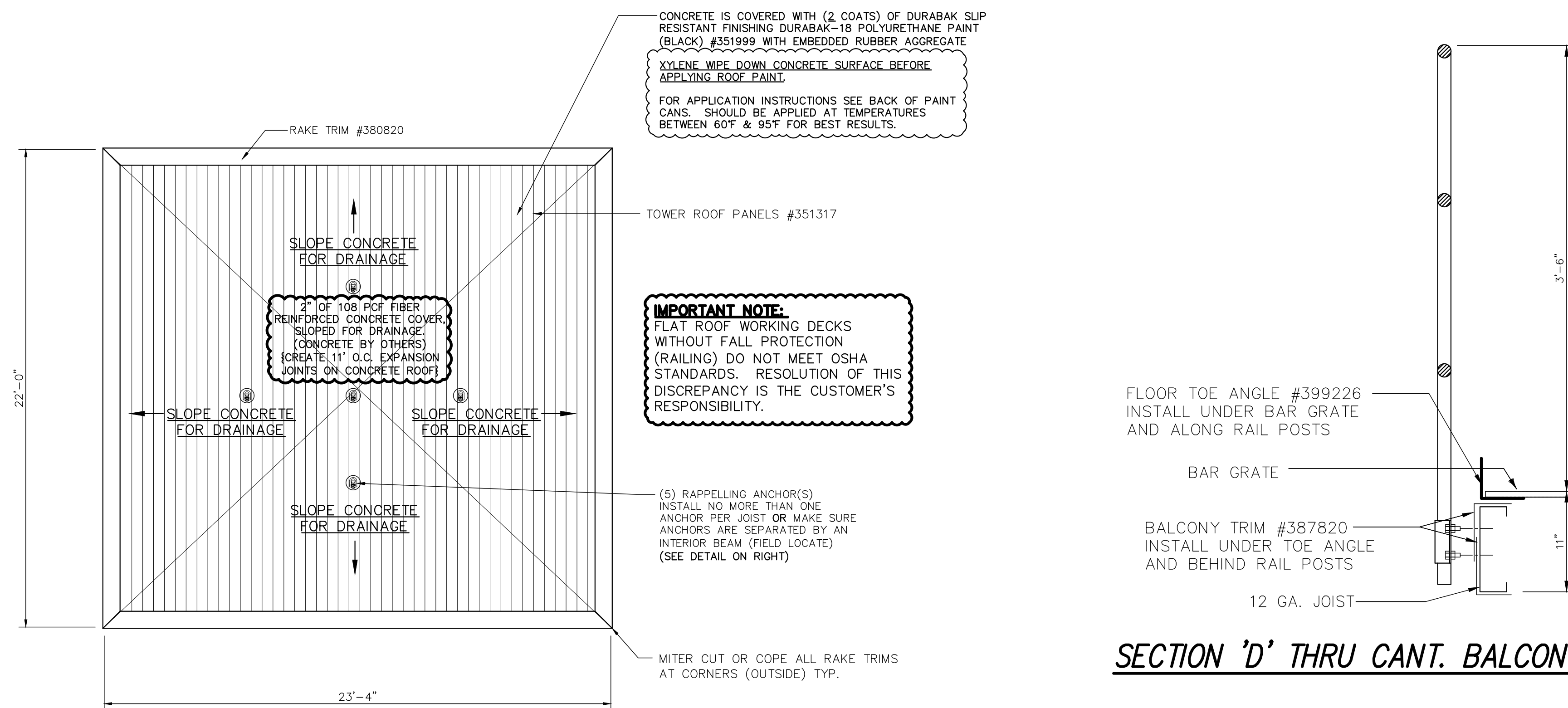
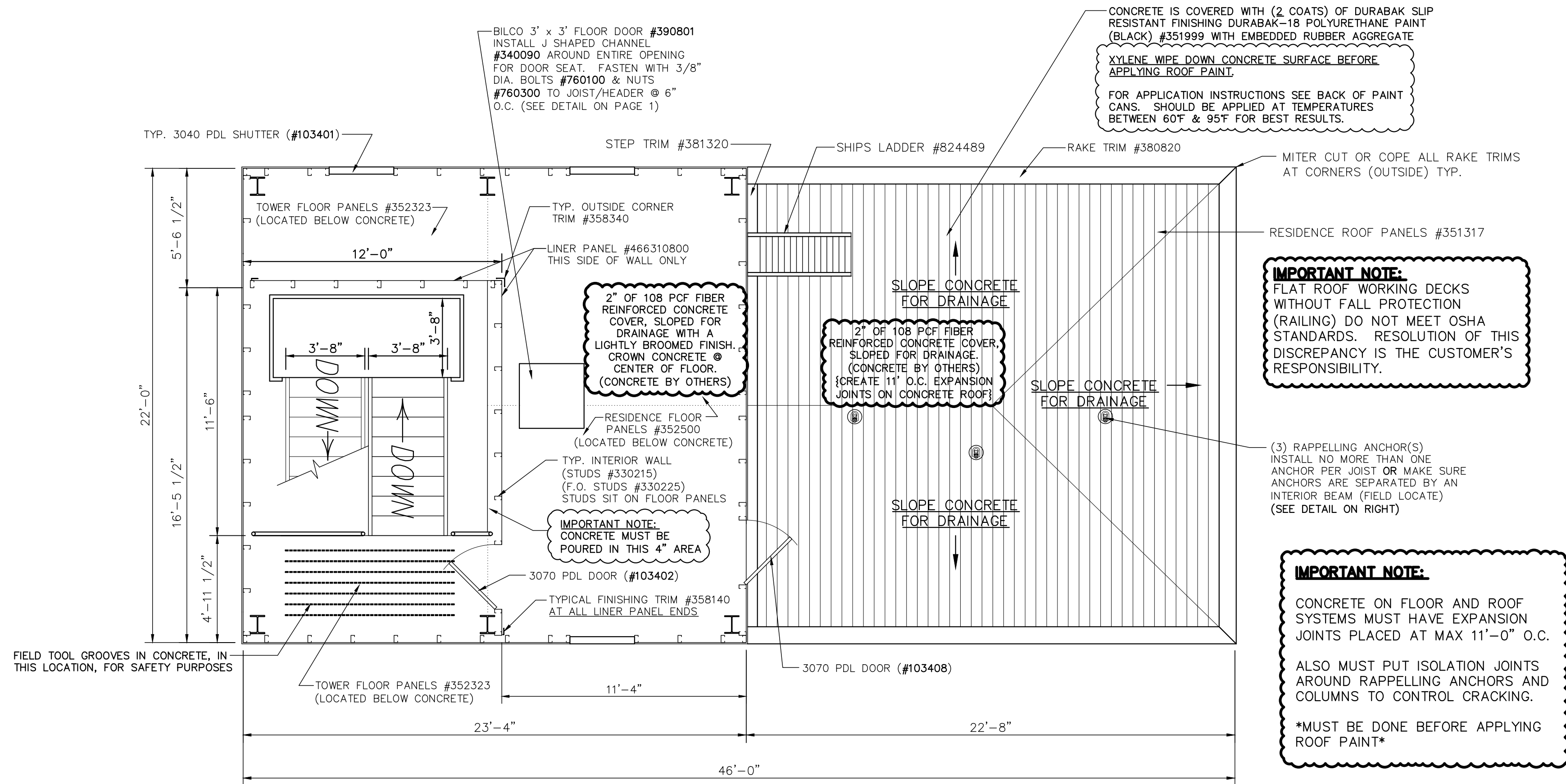
scale: 1 1/2" = 1'-0"



3'x3' BILCO FLOOR DOOR WITH CONCRETE DETAIL

scale: $3/4" = 1'-0"$

[illegible]



REVISIONS		by

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Job Description: **WESCO MODEL HC-1 CUSTOM LITHIA, FL**
 Sheet Title: **FLOOR PLANS**

Date: MARCH 5, 2018
 Drawn by: GWL
 Checked by: SPW
 Scale: SHOWN
 Order No. TTS-105/#199204
 Sheet No.

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WESCO MODEL HC-1
CUSTOM
LITHIA, FL

Date:	MARCH 5, 2018
Drawn by:	GWL
Checked by:	SPW
Scale:	SHOWN
Order No.	TTS-105/#19920
Sheet No.	

(SEE PAGE 16 FOR WEATHERPROOFING DETAILS)

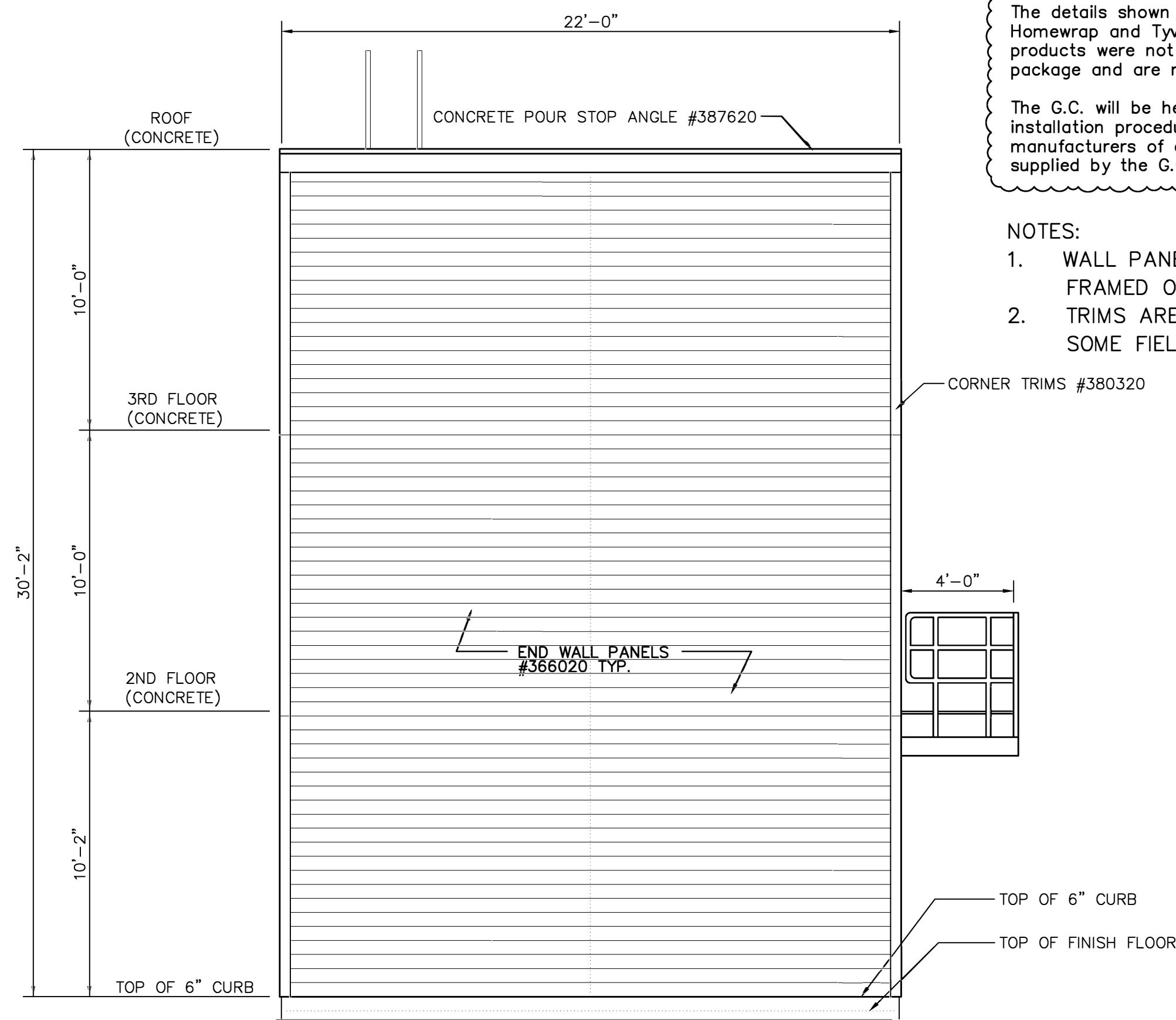
Wraps need to be installed around exterior walls prior to installing the exterior wall panels.

The details shown are standard details for Tyvek Homewrap and Tyvek Flexwrap. Both of these products were not included in Fire Facilities material package and are required to be supplied by the G.C.

The G.C. will be held accountable to use proper installation procedures provided by the manufacturers of all weatherproofing materials supplied by the G.C.

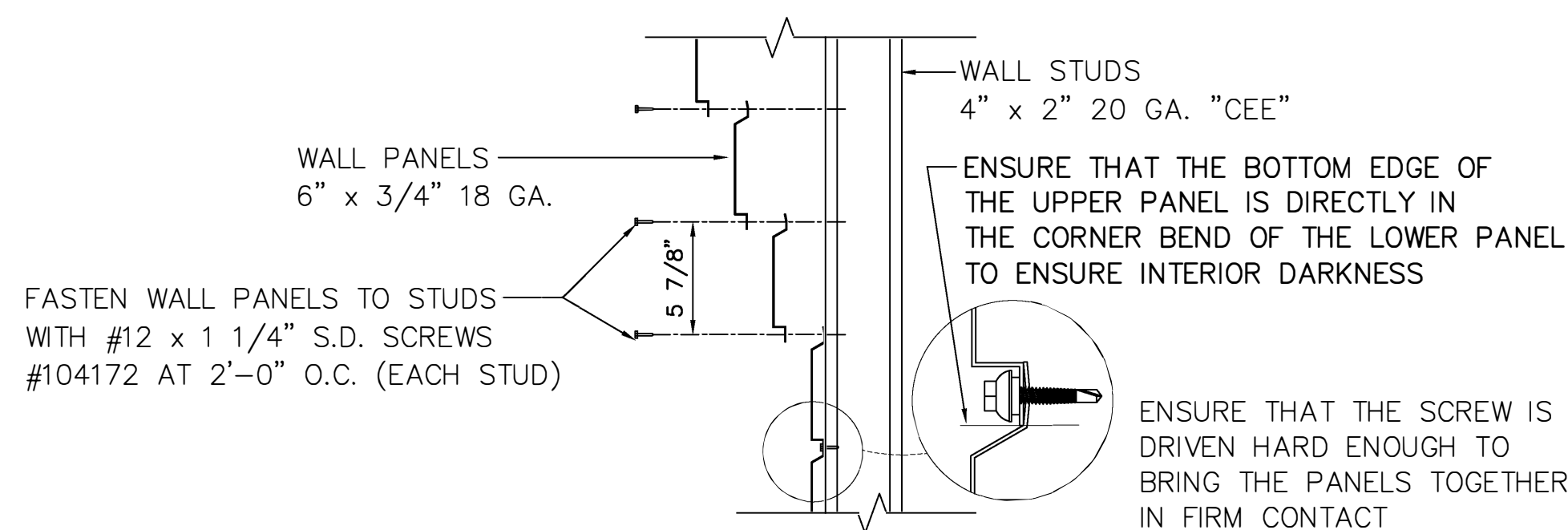
NOTES:

1. WALL PANEL MUST BE FIELD CUT AROUND FRAMED OPENINGS
2. TRIMS ARE IN STANDARD 10' LENGTHS
SOME FIELD CUTTING OF TRIMS IS REQUIRED



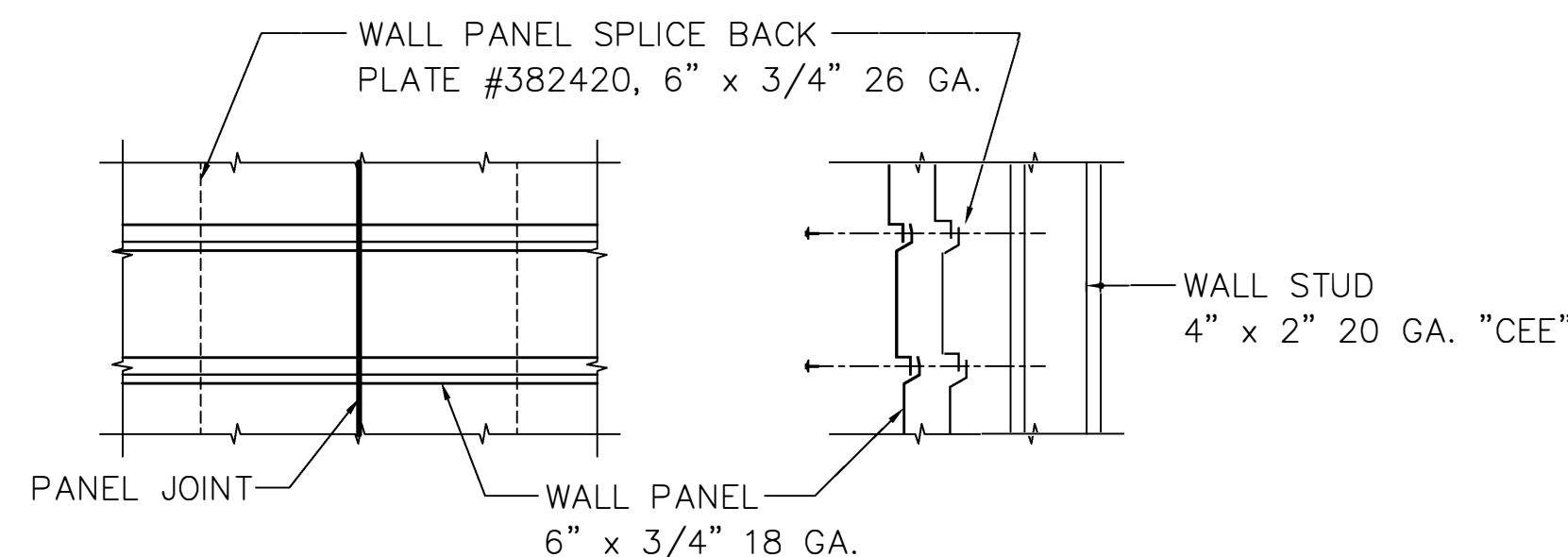
SOUTH END ELEVATION

SCALE: $1/4" = 1'-0"$



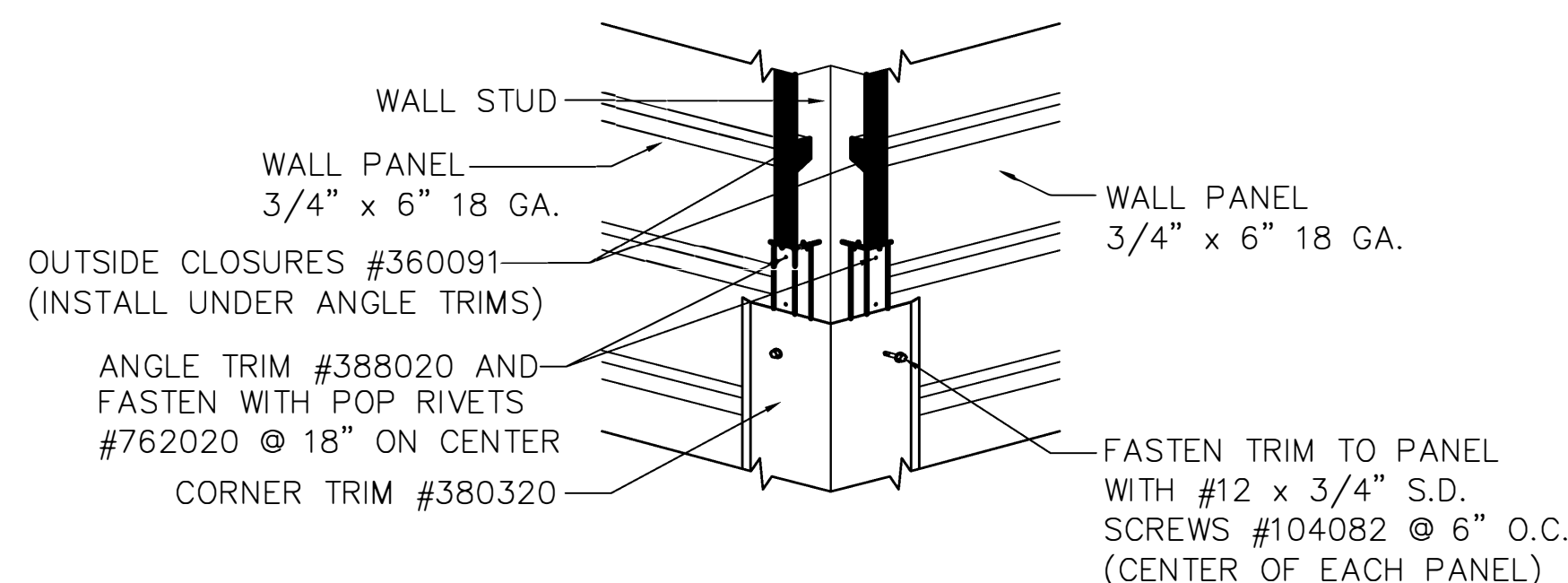
TYPICAL WALL PANEL FASTENING DETAIL

scale: 1 1/2" = 1'-0"



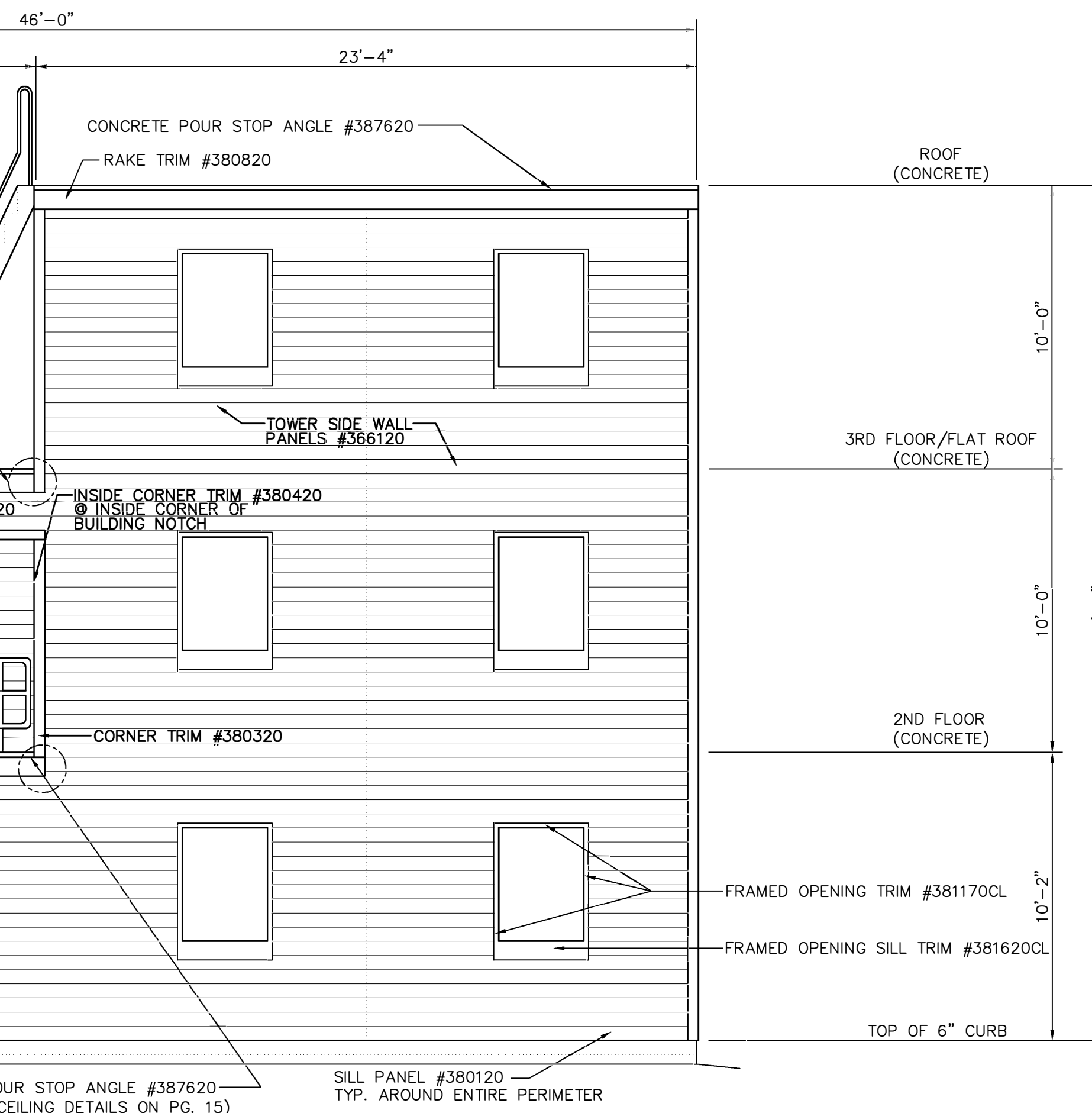
WALL PANEL SPLICE PLATE

scale: 1 1/2" = 1'-0"



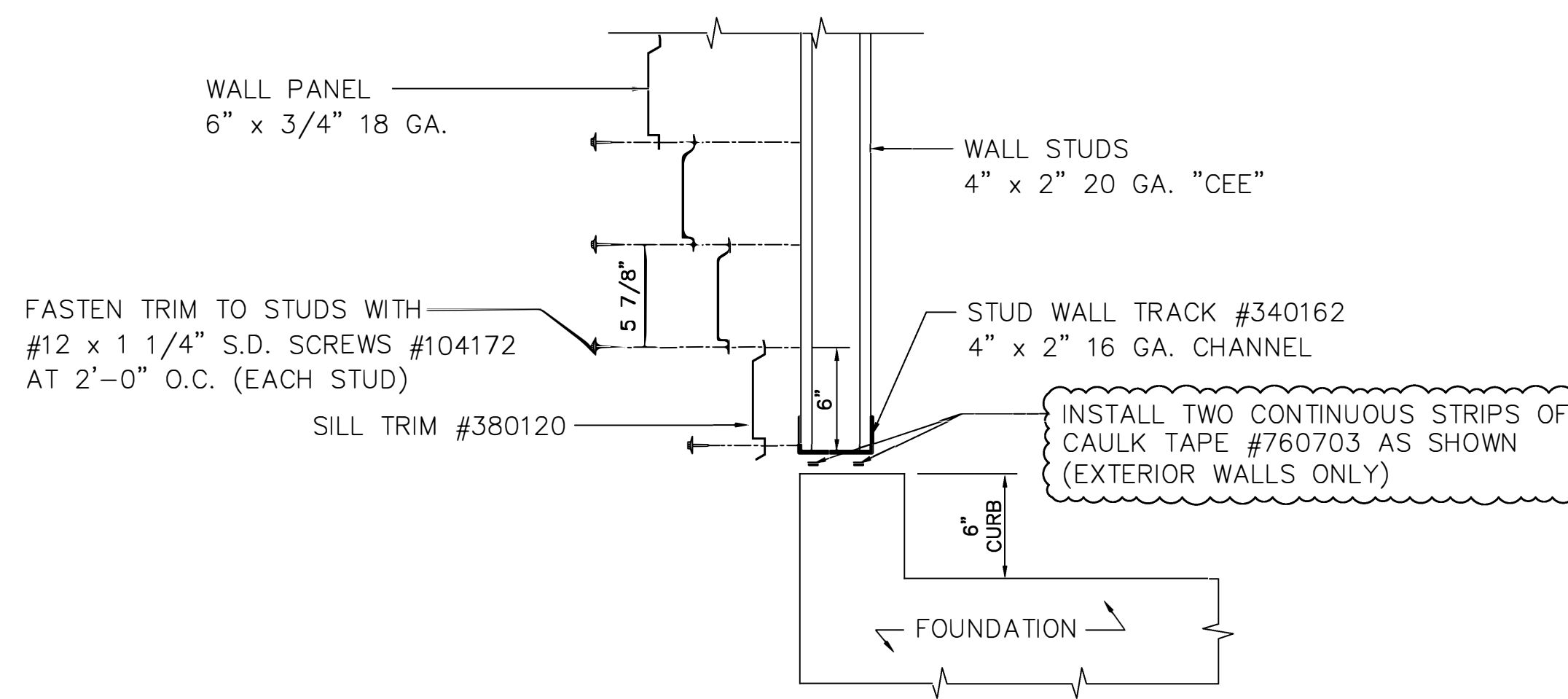
TYPICAL EXTERIOR CORNER TRIM DETAIL

scale: 1 1/2" = 1'-0"



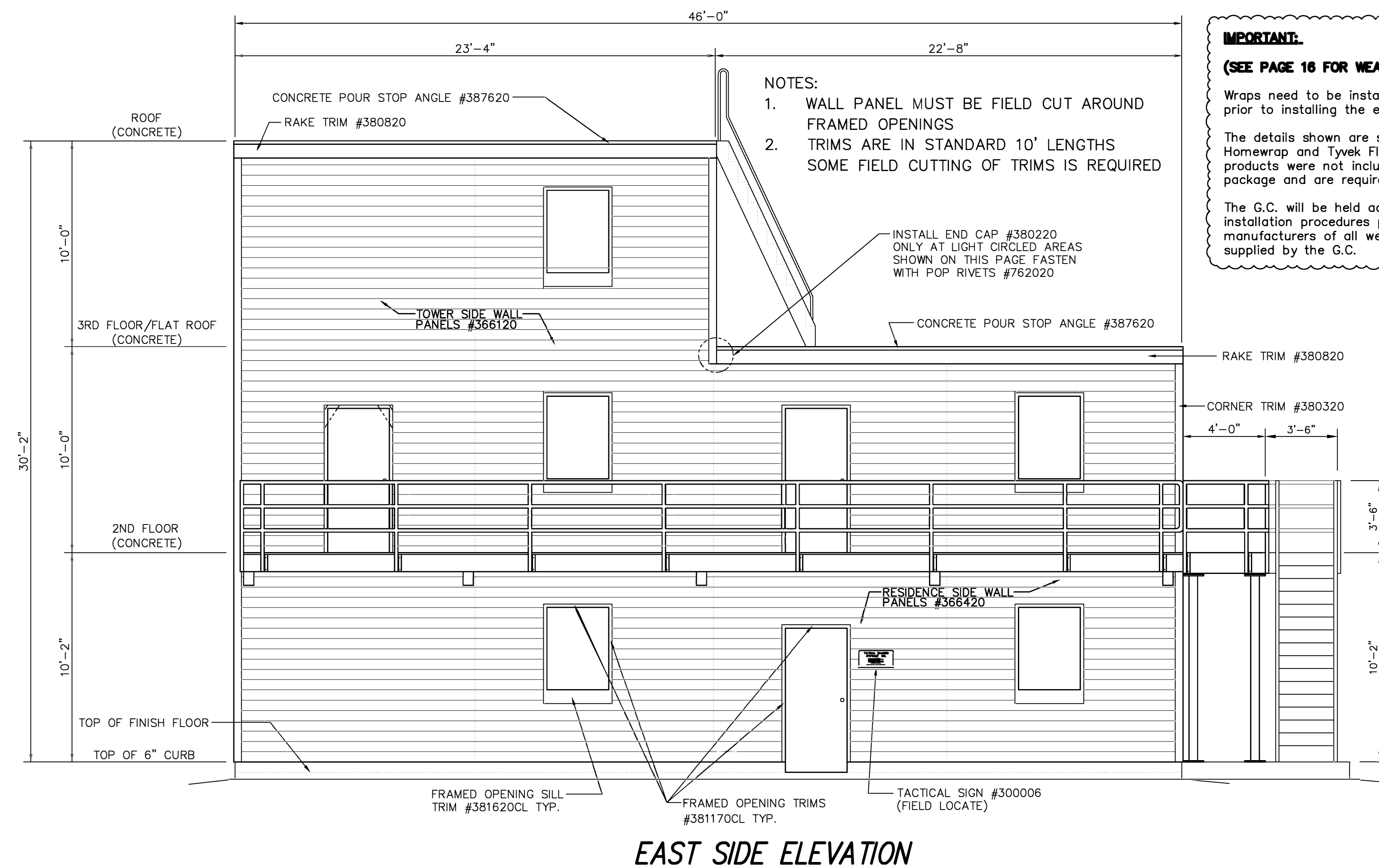
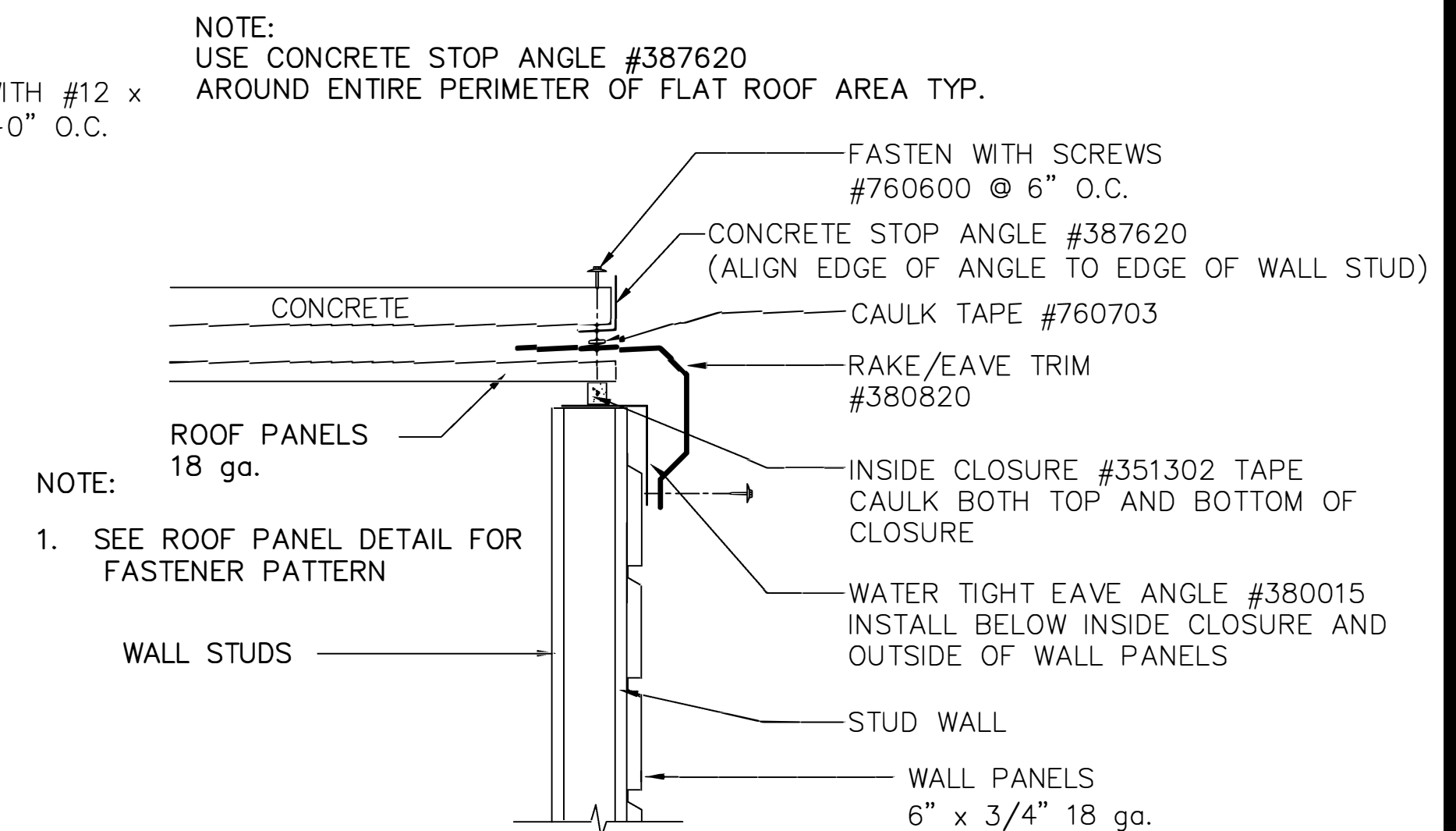
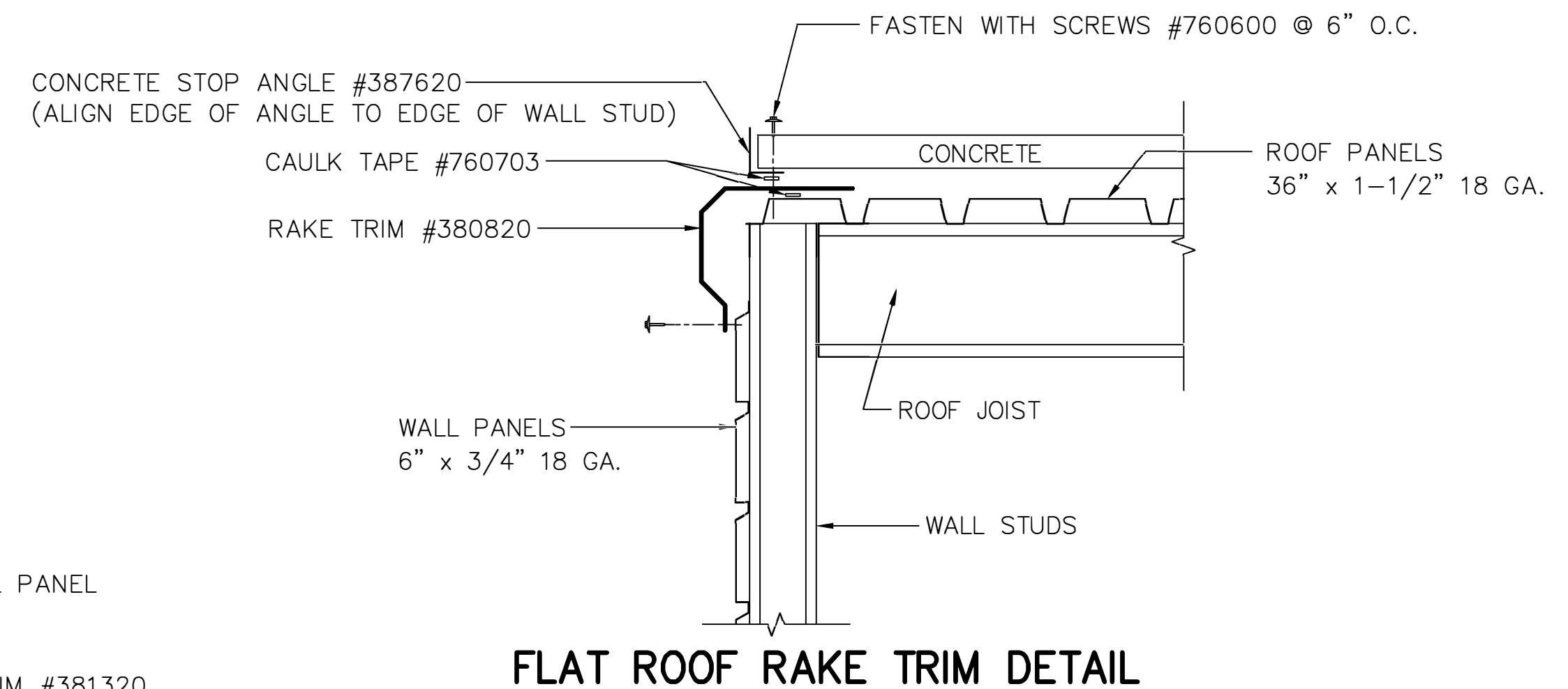
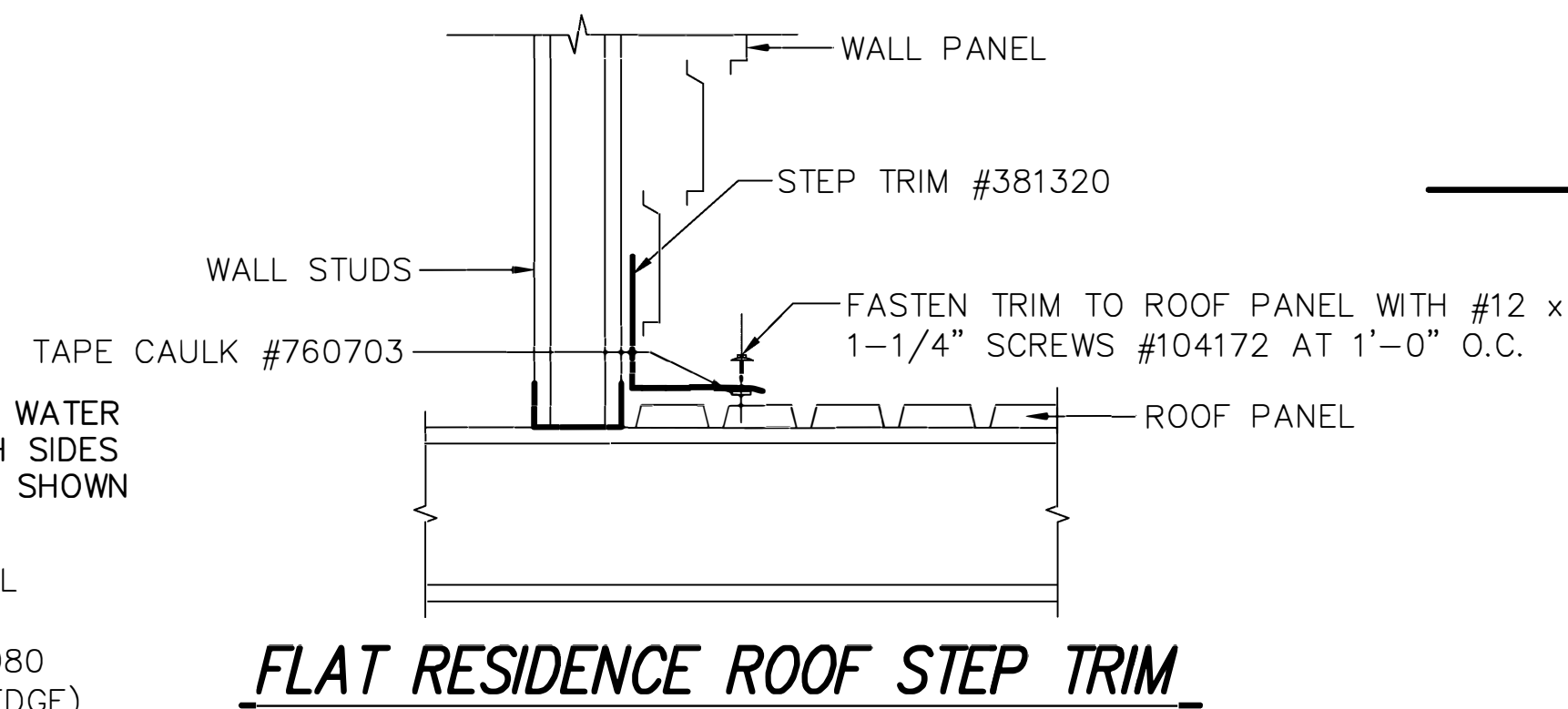
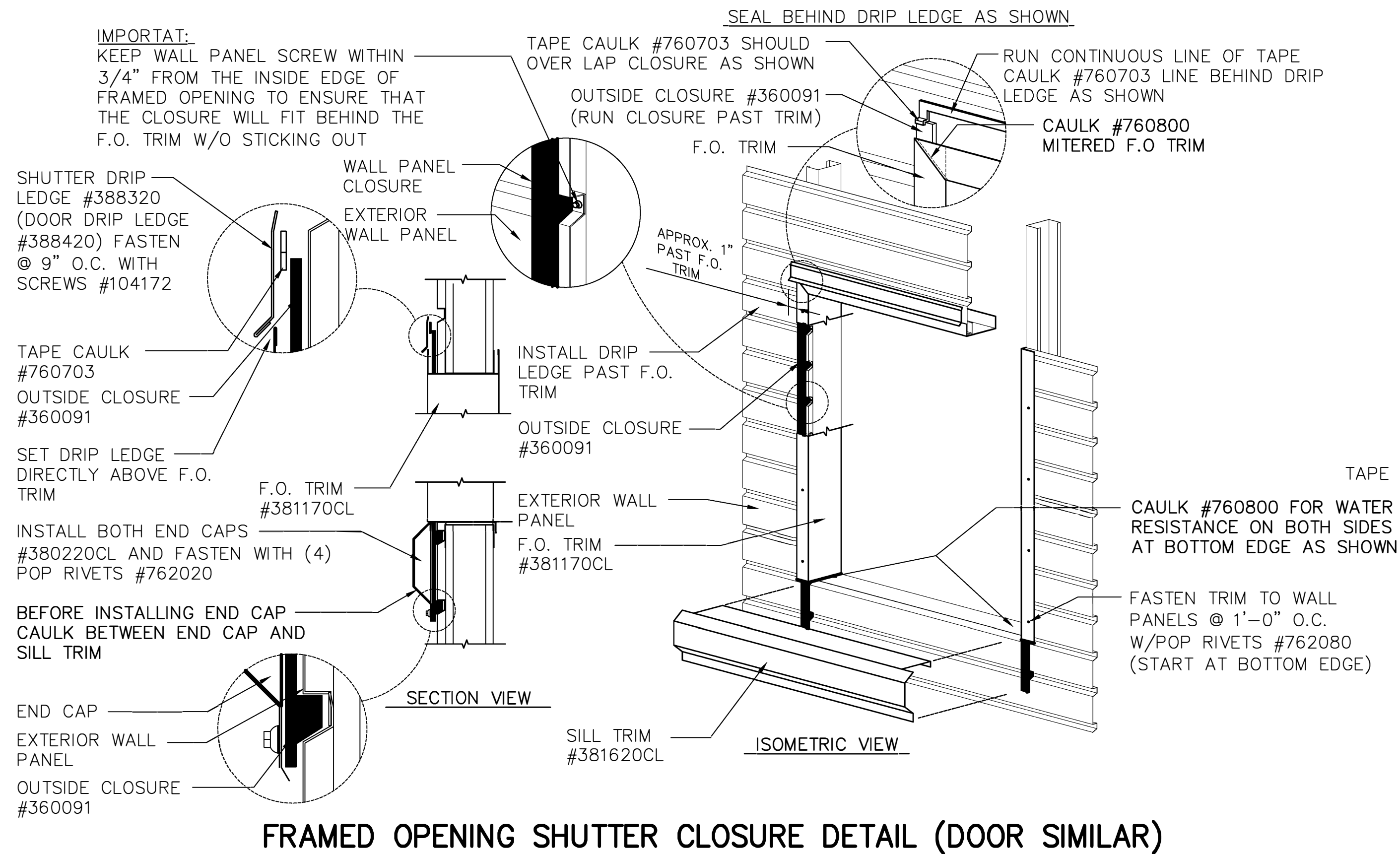
WEST SIDE ELEVATION

SCALE: $1/4" = 1'-0"$



TYPICAL SILL DETAIL

scale: $1\frac{1}{2}'' = 1'-0''$

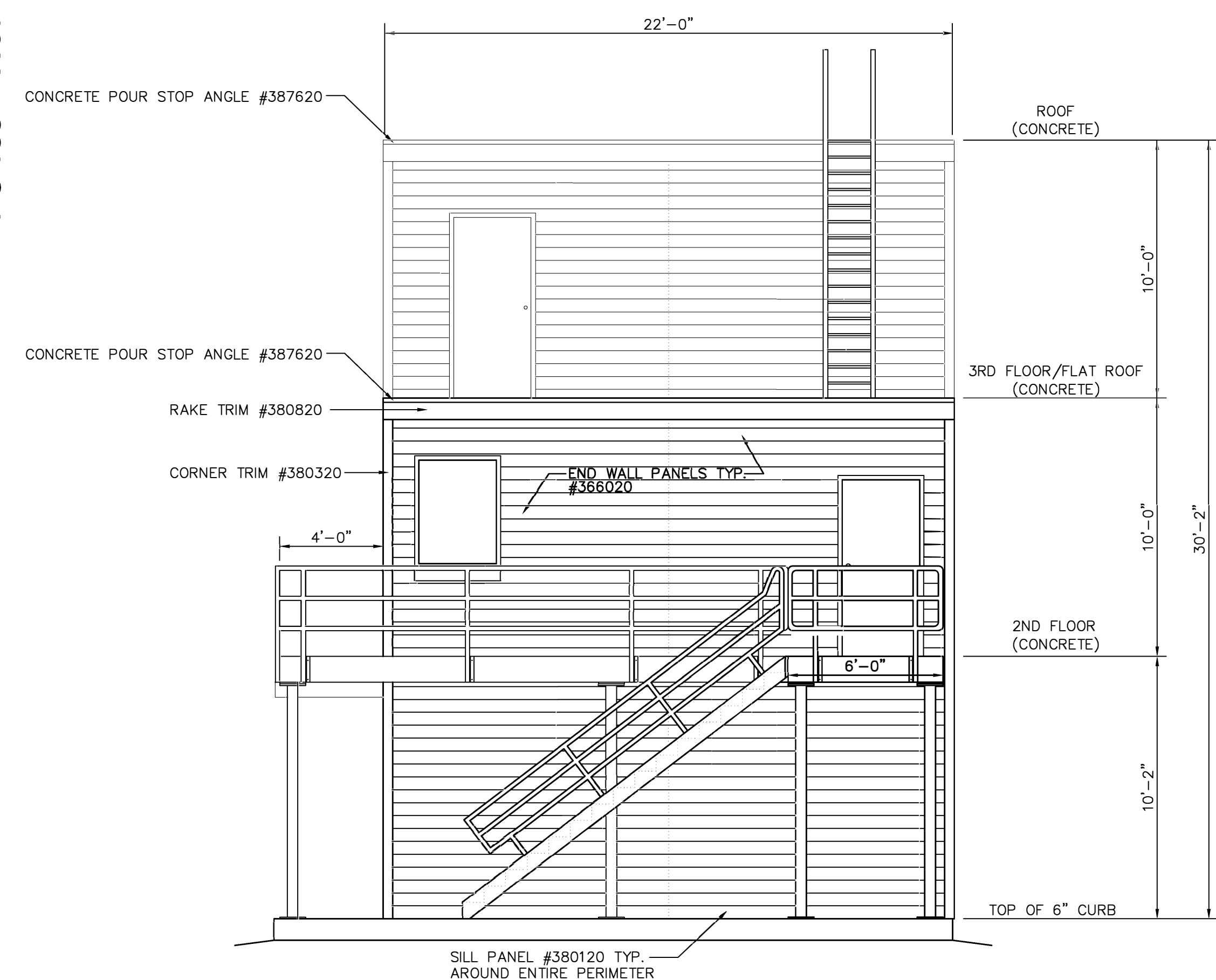


IMPORTANT:
(SEE PAGE 16 FOR WEATHERPROOFING DETAILS)

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SCALE: 1/4" = 1'-0"

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REVISIONS

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Job Description: WESCO MODEL HC-1
CUSTOM LITHIA, FL

Sheet Title: ELEVATIONS

Date: MARCH 5, 2018

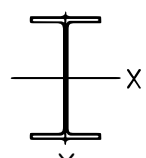
Drawn by: GWL

Checked by: SPW

Scale: SHOWN

Order No. TTS-105/#199204

Sheet No.



COLUMN REACTIONS

COLUMN	HORIZONTAL (ANY DIRECTION)	VERTICAL (DOWNWARD)	VERTICAL (UPLIFT)
A-1	10 KIPS	51 KIPS	27 KIPS
B-1	4 KIPS	49 KIPS	3 KIPS
A-2	10 KIPS	99 KIPS	24 KIPS
B-2	7 KIPS	99 KIPS	3 KIPS
A-3, B-3	6 KIPS	86 KIPS	3 KIPS
A-4, B-4	5 KIPS	70 KIPS	3 KIPS
A-5, B-5	3 KIPS	36 KIPS	3 KIPS

DESIGN REACTIONS SHOWN:

- PER FBC 2012 AND LRFD LOAD COMBINATIONS
- WIND CRITERIA: 130 MPH, EXP C; RISK CAT. I
- SEISMIC CRITERIA: SDC A; SITE CLASS D

- ALL COLUMNS, STUD WALLS AND EXTERIOR BALCONY / STAIR PADS ARE SET AT TOP OF CURB (FINISHED FLOOR IS 6" BELOW TOP OF CURB).
- ALL PADS OUTSIDE OF EXTERIOR DOORS SHOULD BE SET AT FINISHED FLOOR (IF APPLICABLE).
- ALL DOOR OPENINGS THAT ARE DIMENSIONED SHOULD BE HELD EXACT (DOOR LOCATIONS NOT DIMENSIONED CAN BE FIELD LOCATED).

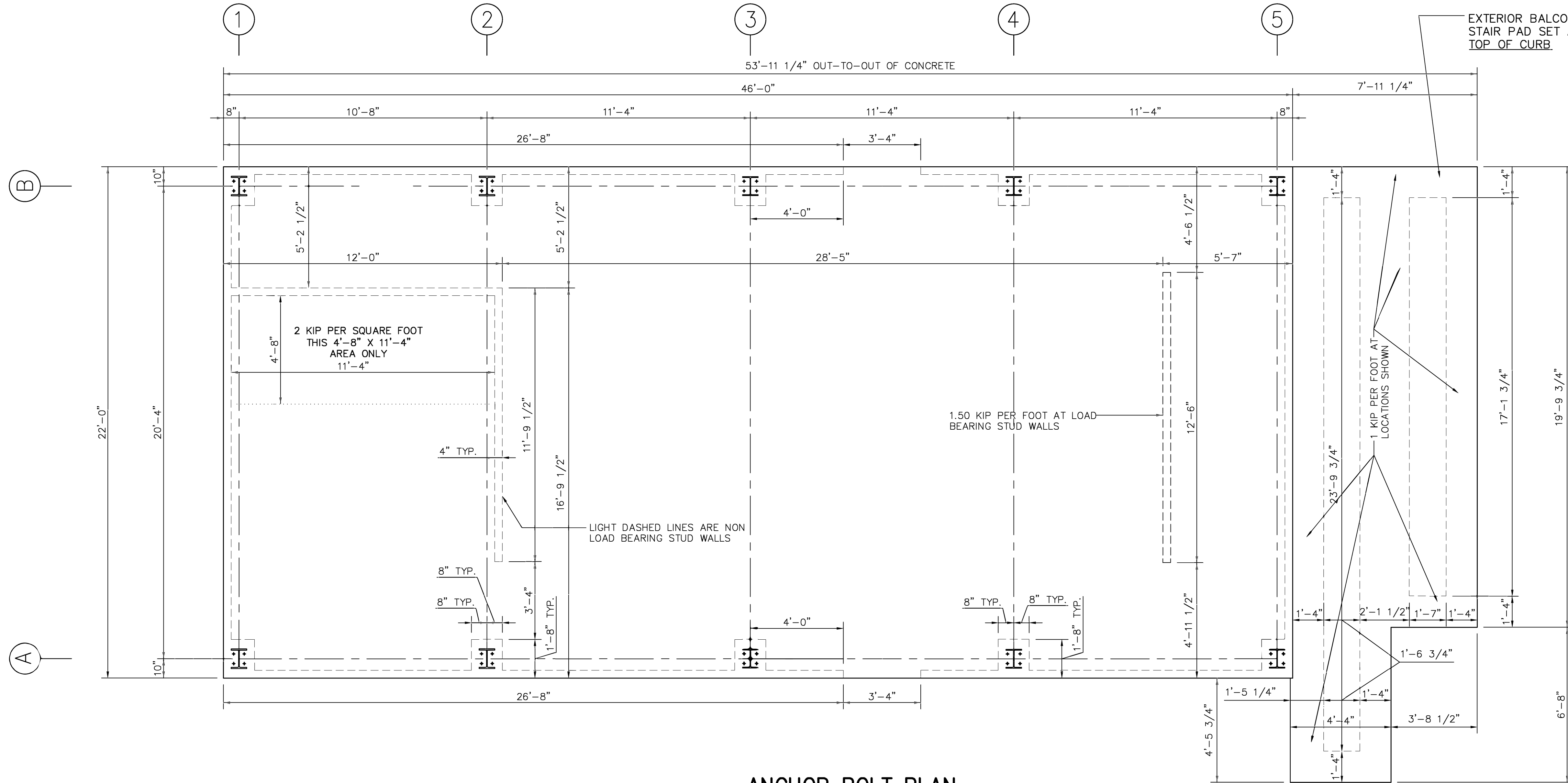
NOTE:

EXCLUDES ANY AND ALL PREPARATIONS INVOLVED IN PROVIDING SUITABLE CONCRETE PADS AND/OR FOUNDATIONS

ALSO EXCLUDES ANY ANCHORS REQUIRED TO SECURE THE BUILDING TO THE FOUNDATION.

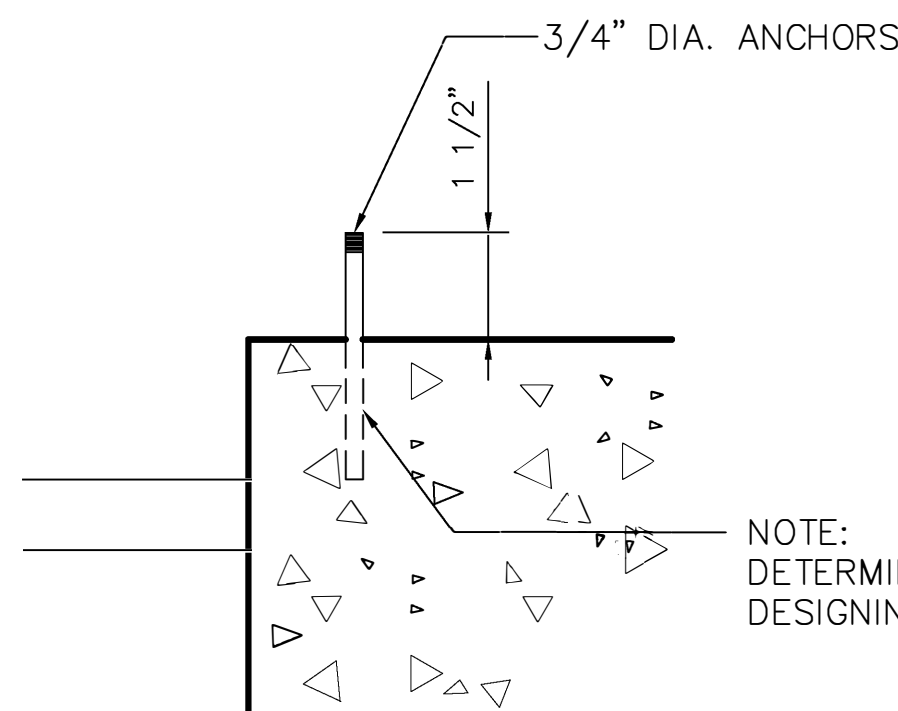


North arrow for reference only - coordinate actual orientation on site



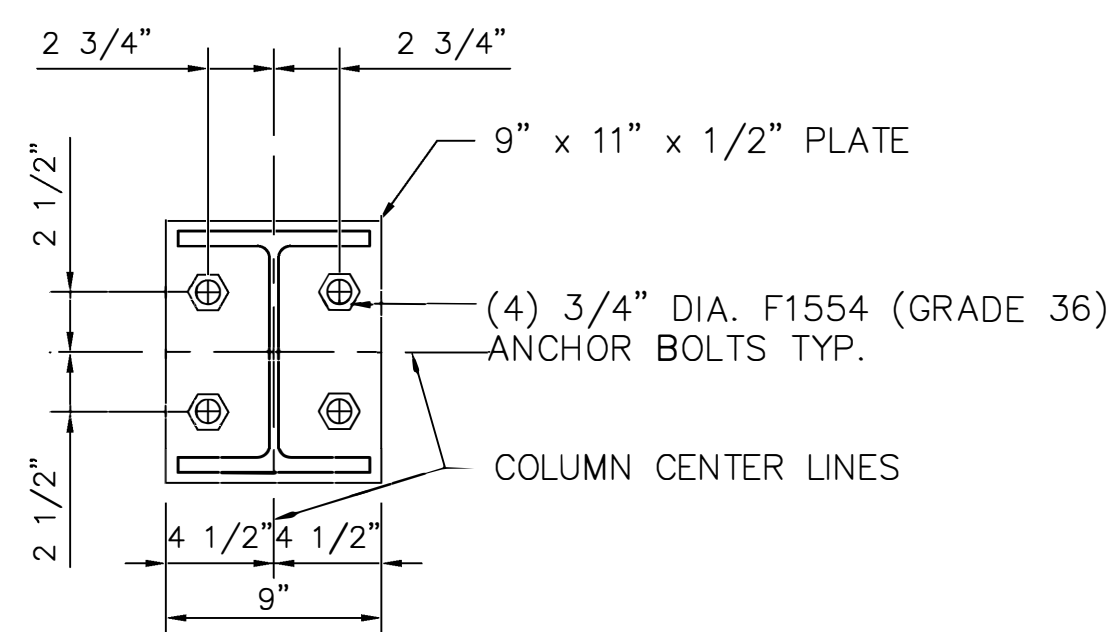
ANCHOR BOLT PLAN

SCALE: 3/8" = 1'-0"



NOTE: EMBEDMENT DEPTH DETERMINED BY ENGINEER DESIGNING THE FOUNDATION

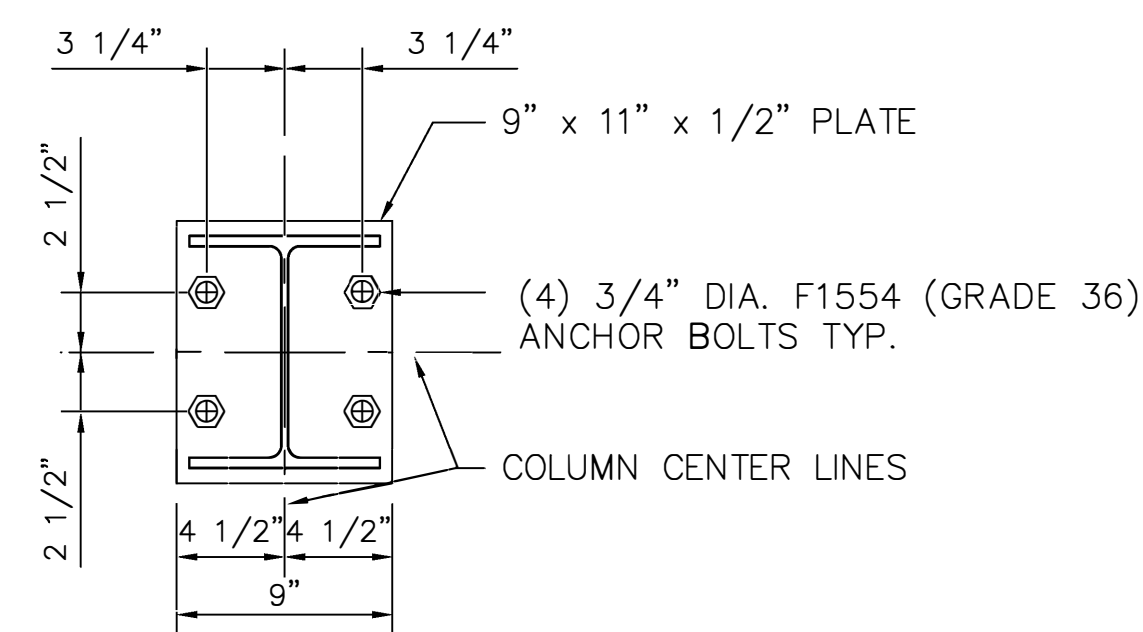
ANCHOR BOLT PROJECTION DETAIL



NOTE: SEE ANCHOR BOLT PLAN FOR COLUMN ORIENTATION AND CENTER LINE LOCATIONS (A1,A2,B1, & B2).

TOWER COLUMN ANCHOR BOLT DETAIL

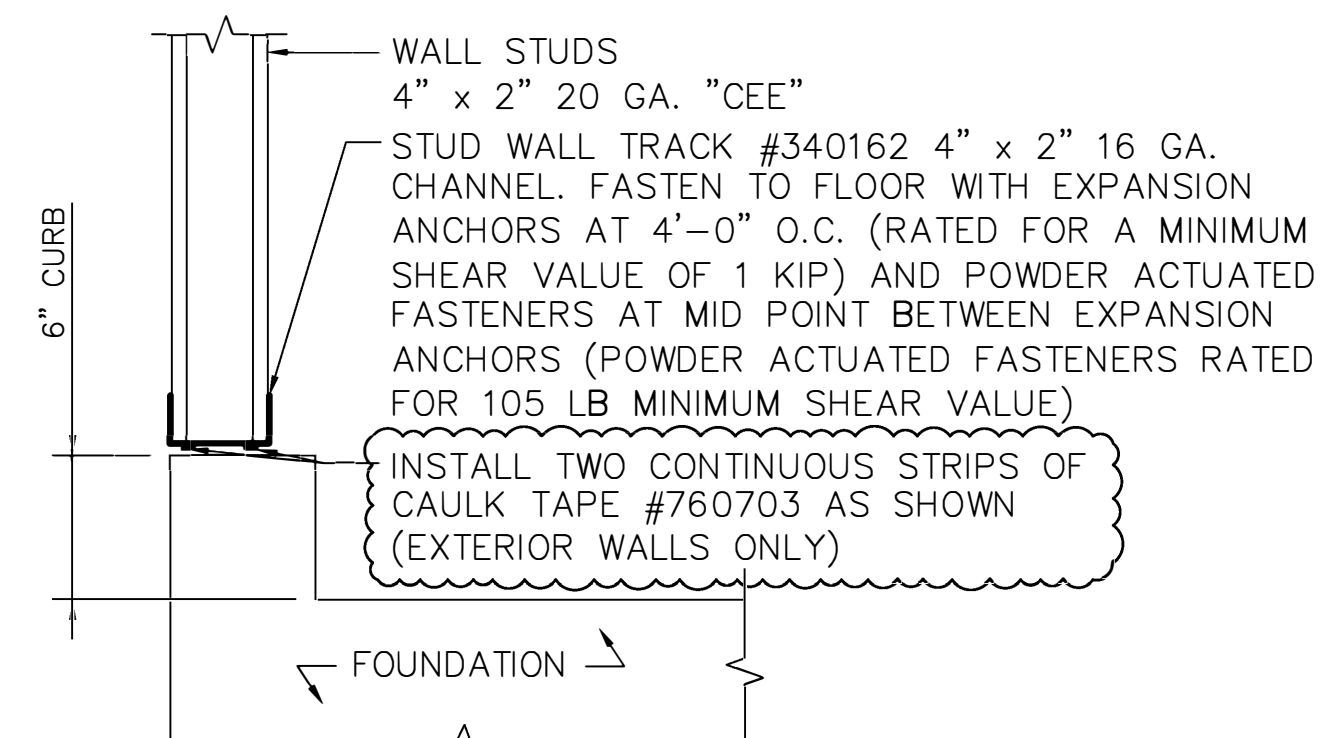
scale: 1 1/2" = 1'-0"



NOTE: SEE ANCHOR BOLT PLAN FOR COLUMN ORIENTATION AND CENTER LINE LOCATIONS (A3,A4,A5,B3,B4, & B5).

RESIDENCE COLUMN ANCHOR BOLT DETAIL

scale: 1 1/2" = 1'-0"



TYPICAL STUD WALL BASE DETAIL

scale: 1 1/2" = 1'-0"

REVISIONS

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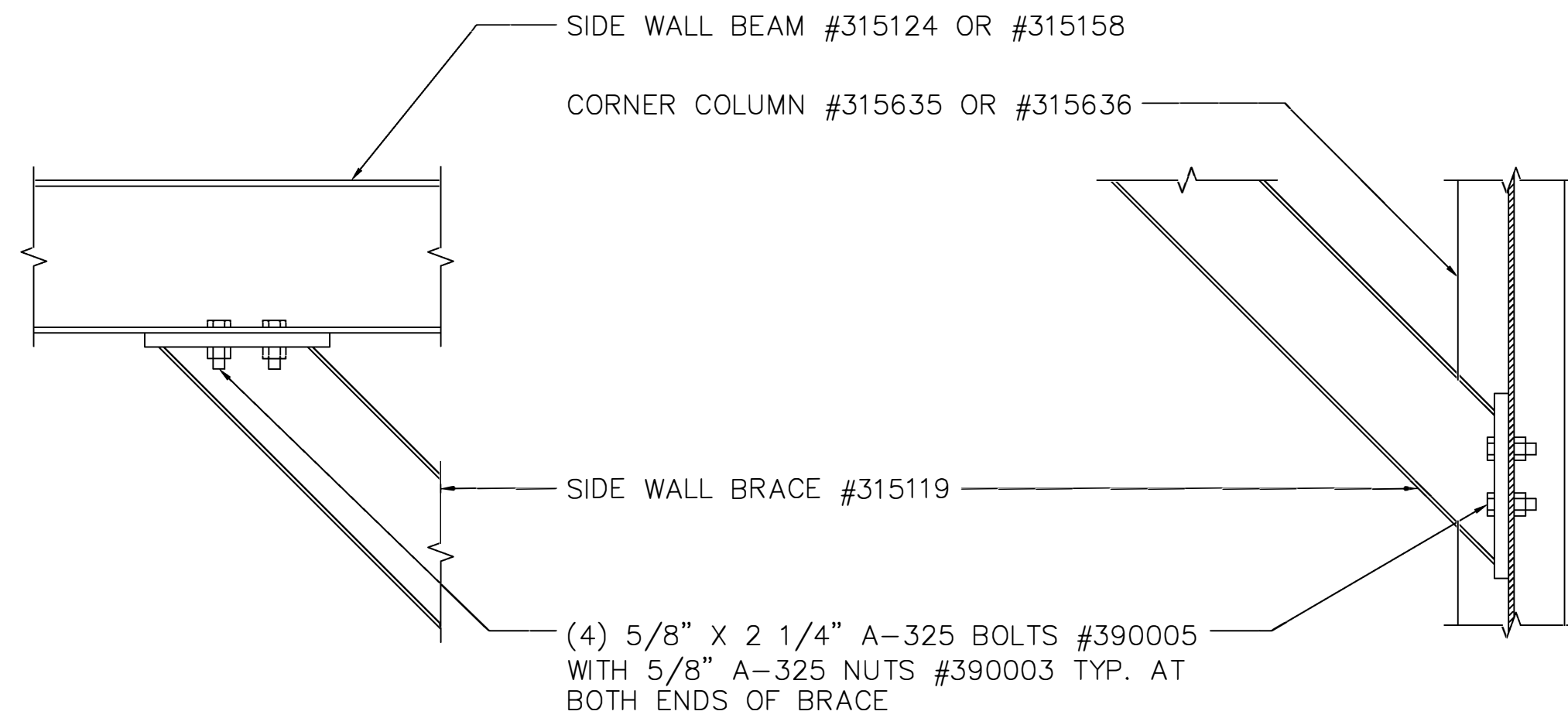
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WESCO MODEL HC-1
CUSTOM
LITHIA, FL

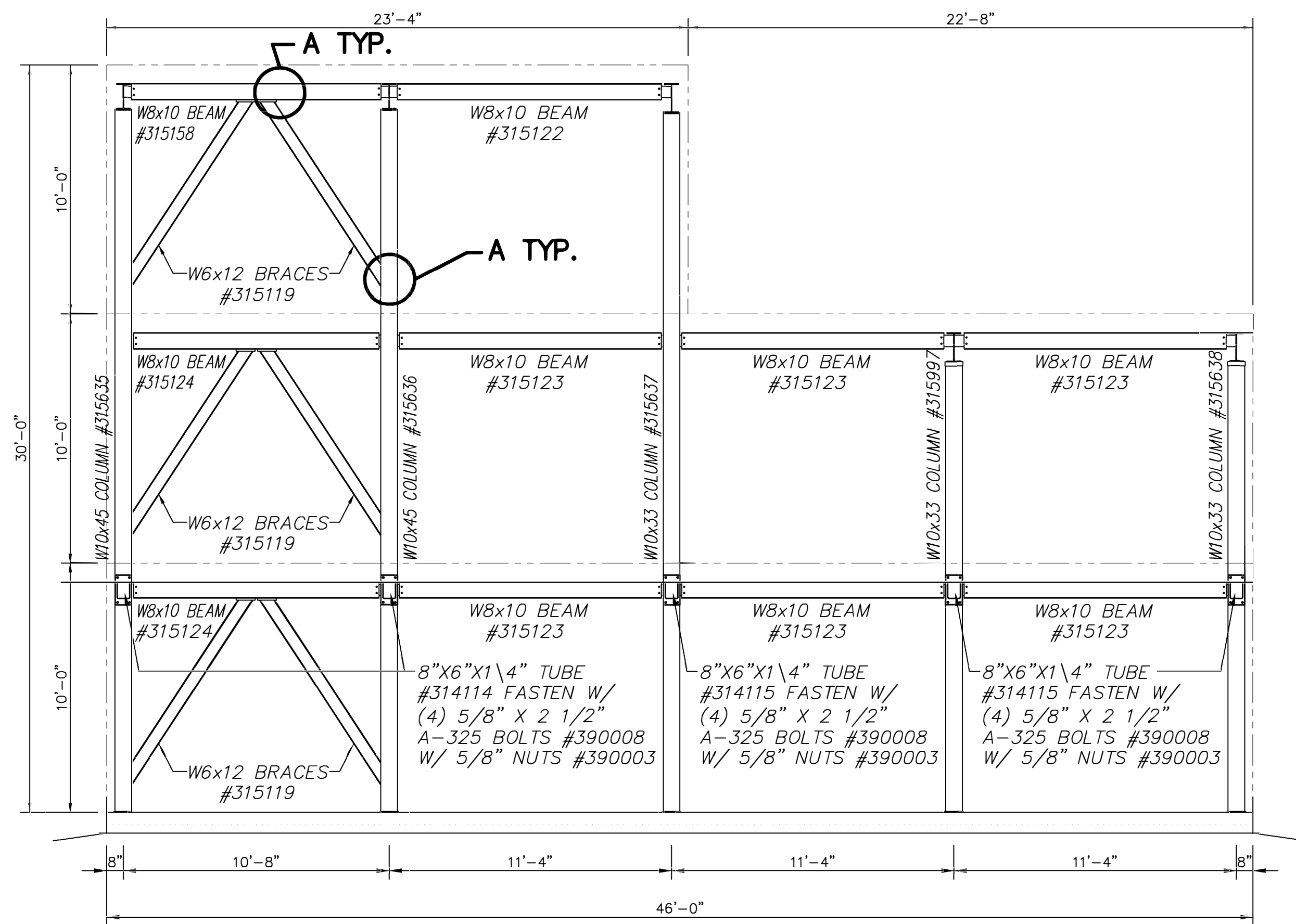
Sheet Title
ANCHOR BOLT PLAN

Job Description

Date: MARCH 5, 2018
Drawn by: GWL
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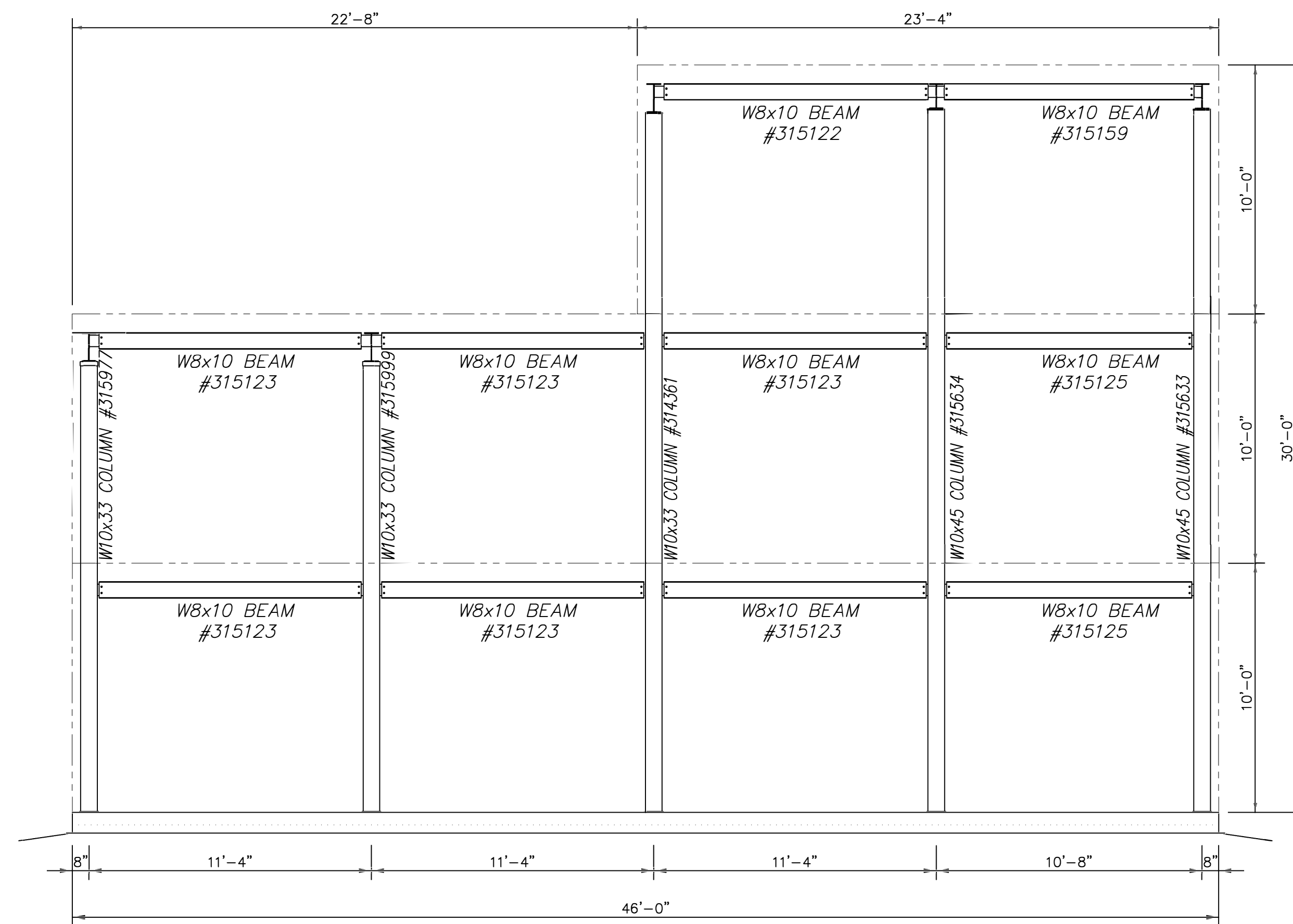


"A" TYPICAL SIDE WALL BRACE CONNECTION DETAILS



EAST SIDE STRUCTURAL FRAMING ELEVATION

SCALE: 1/4"=1'-0"



WEST SIDE STRUCTURAL FRAMING ELEVATION

SCALE: 1/4"=1'-0"

REVISIONS by

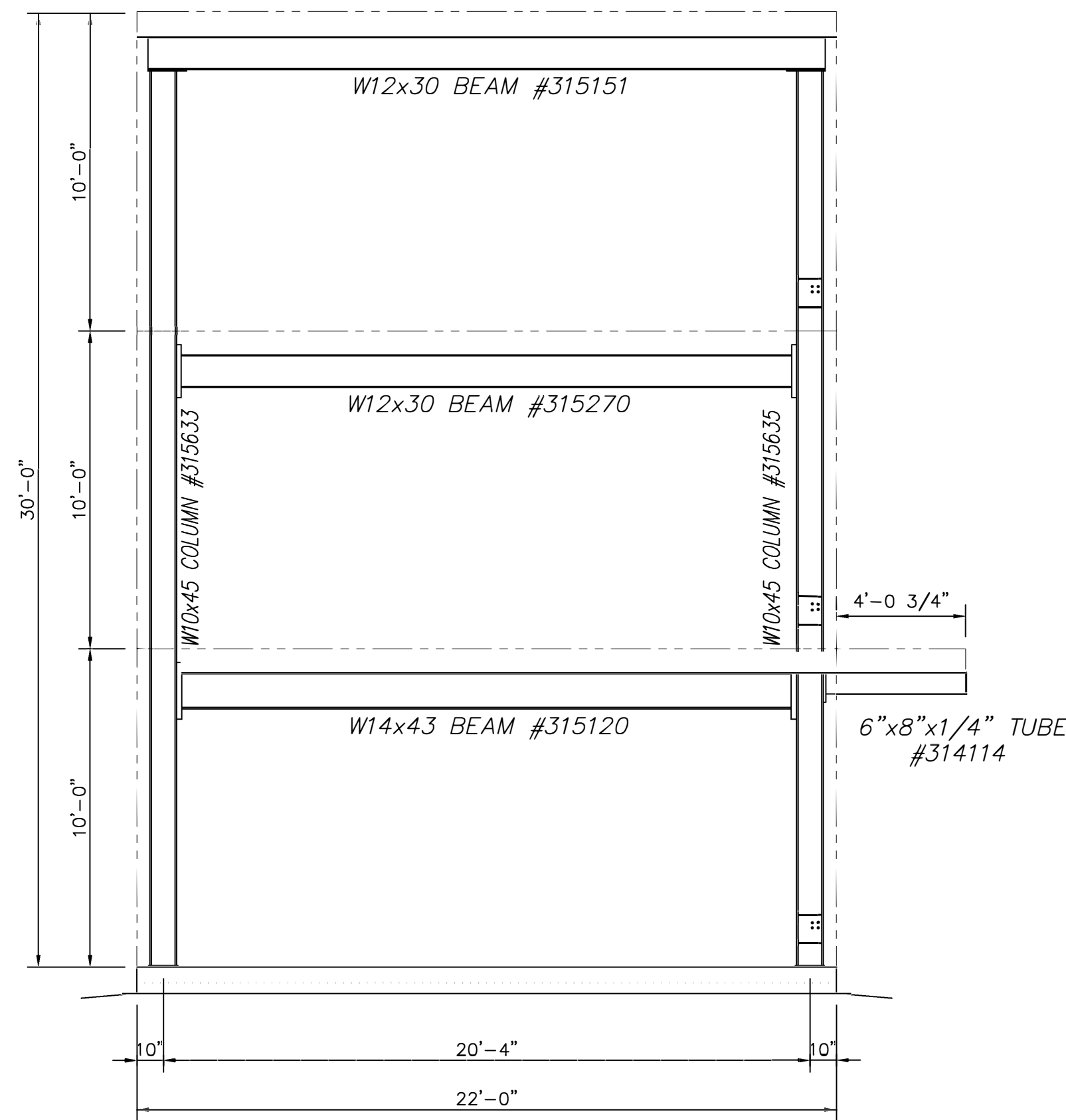
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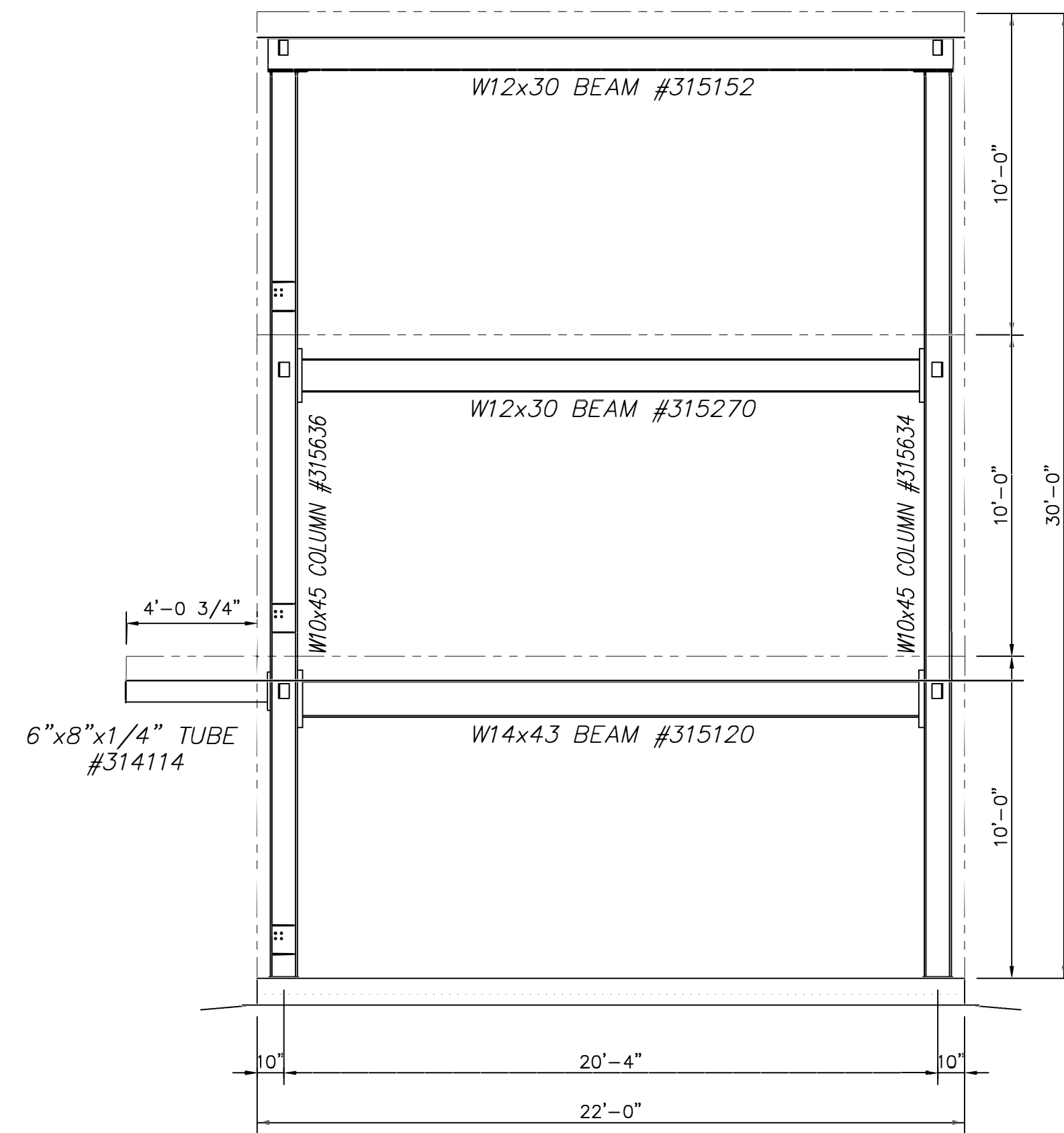
WESCO MODEL HC-1
CUSTOM
LITHIA, FL
Job Description
Sheet Title
STRUCTURAL ELEVATIONS

Date: MARCH 5, 2018
Drawn by: GWL
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Scale: SHOWN
Order No.: TTS-105/#199204
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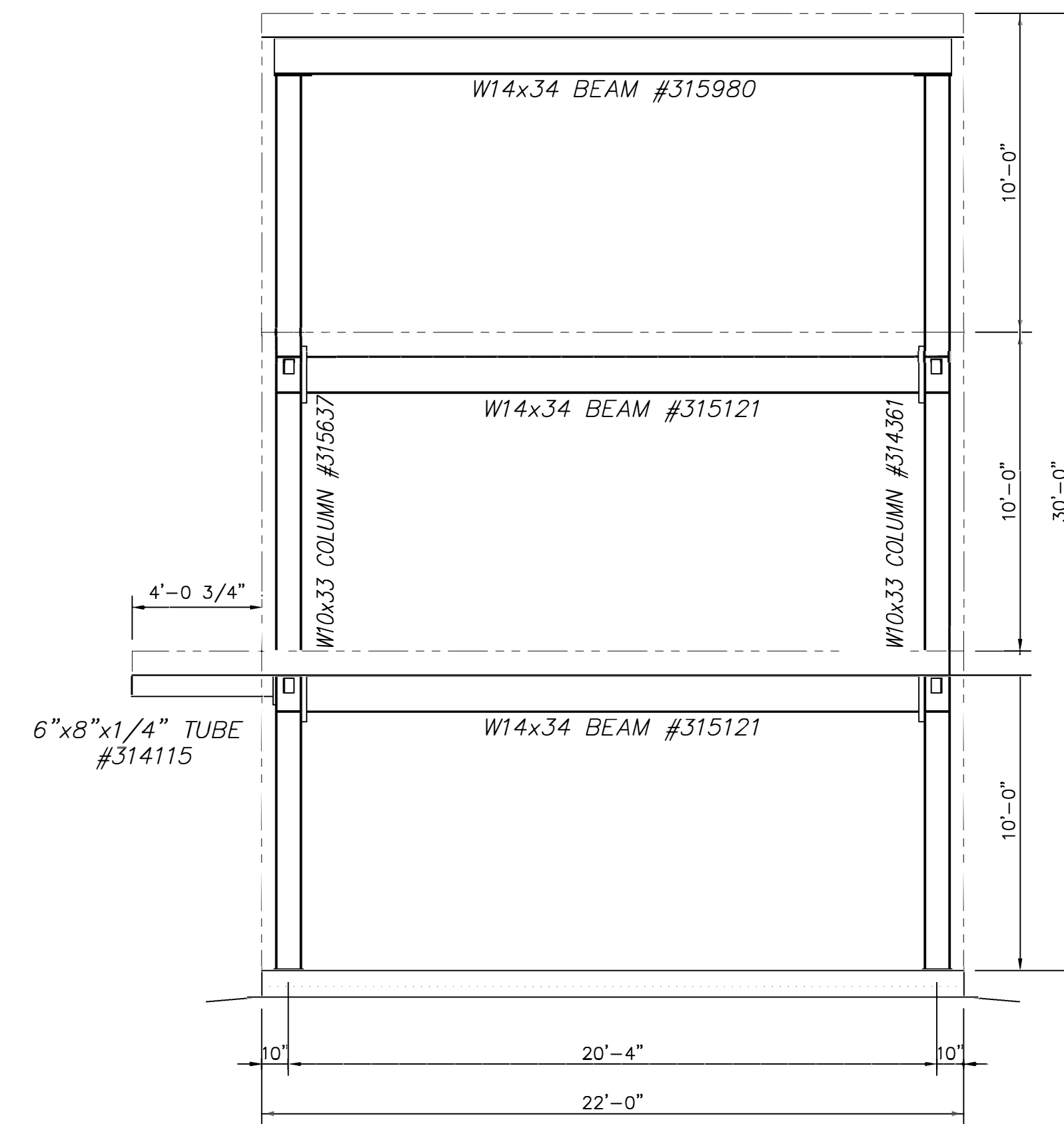
SOUTH END WALL STRUCTURAL FRAMING ELEVATION

SCALE: 1/4"=1'-0"



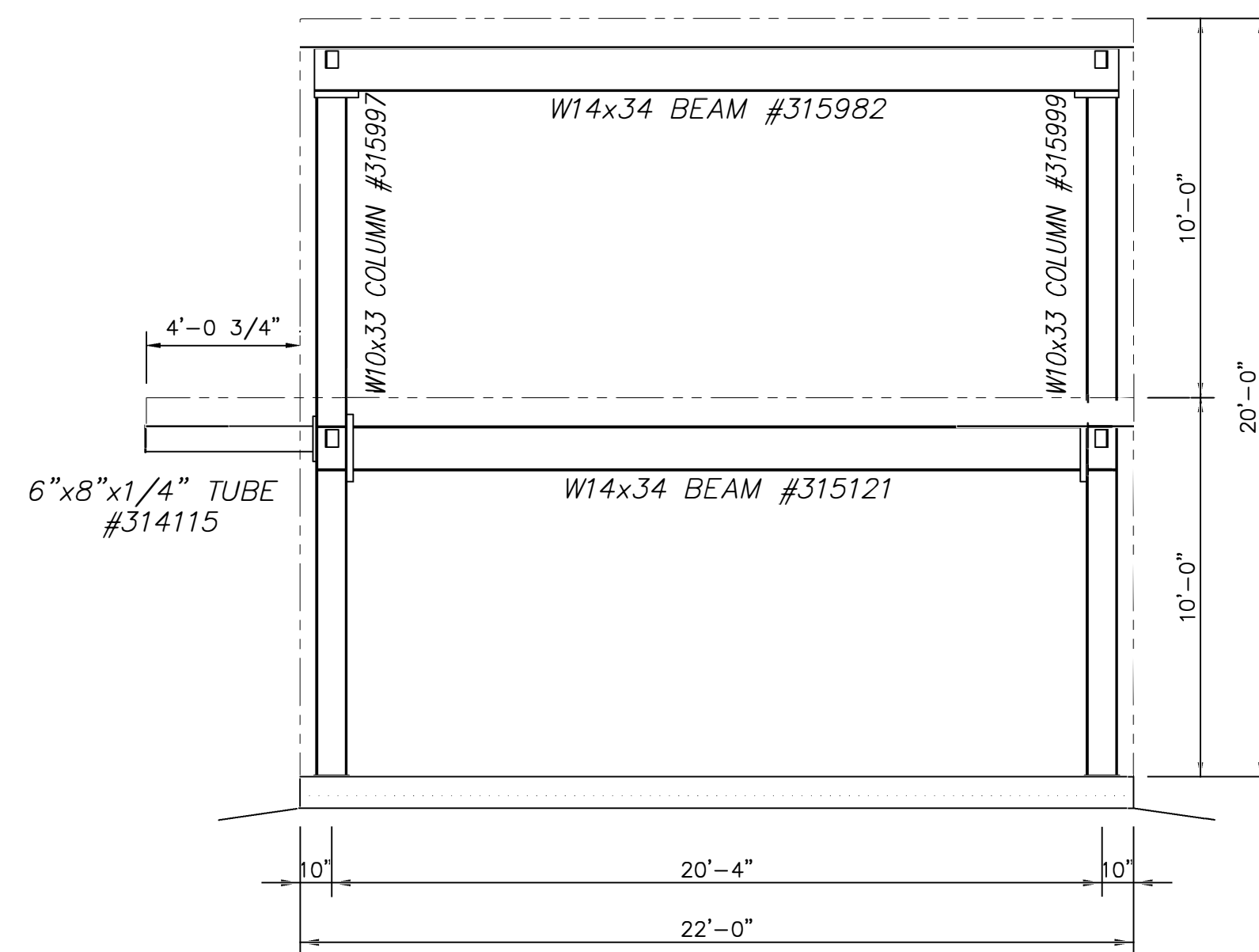
SECTION THRU STRUCTURAL FRAMING AT TOWER INTERIOR WALL

SCALE: 1/4"=1'-0"



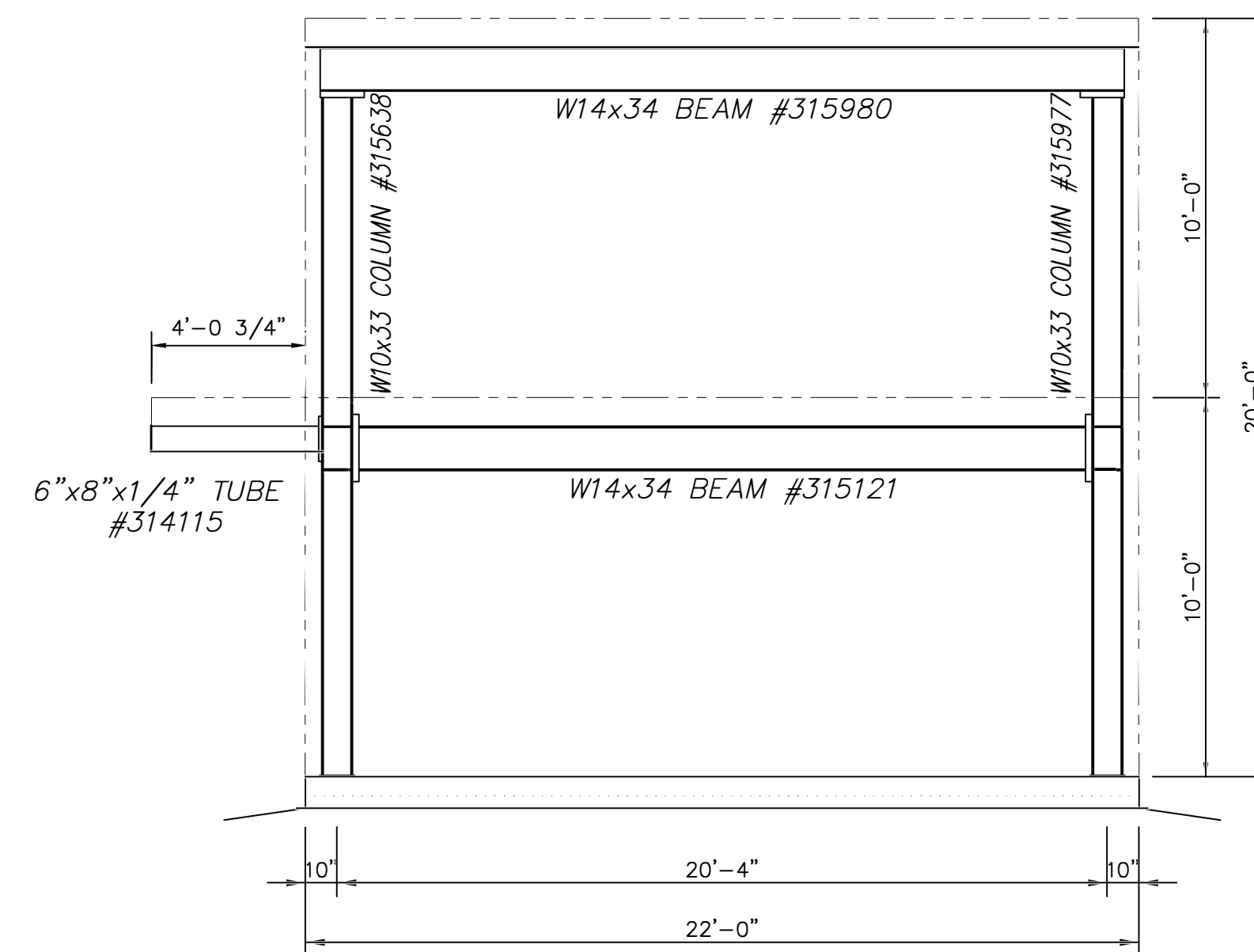
COMMON/NORTH END WALL RESIDENCE STRUCTURAL FRAMING ELEVATION

SCALE: 1/4"=1'-0"



SECTION THRU STRUCTURAL FRAMING AT RESIDENCE INTERIOR WALL

SCALE: 1/4"=1'-0"



NORTH END WALL STRUCTURAL FRAMING ELEVATION

SCALE: 1/4"=1'-0"

REVISIONS by

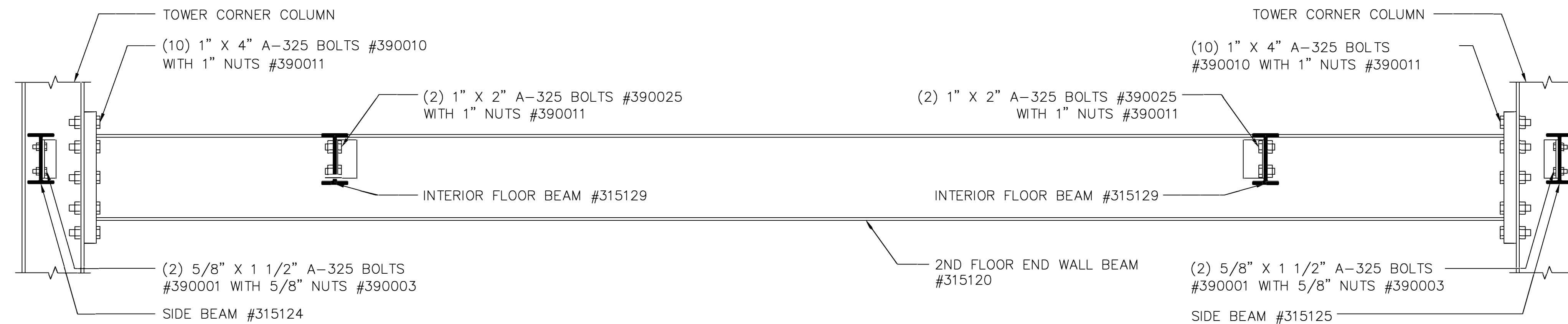
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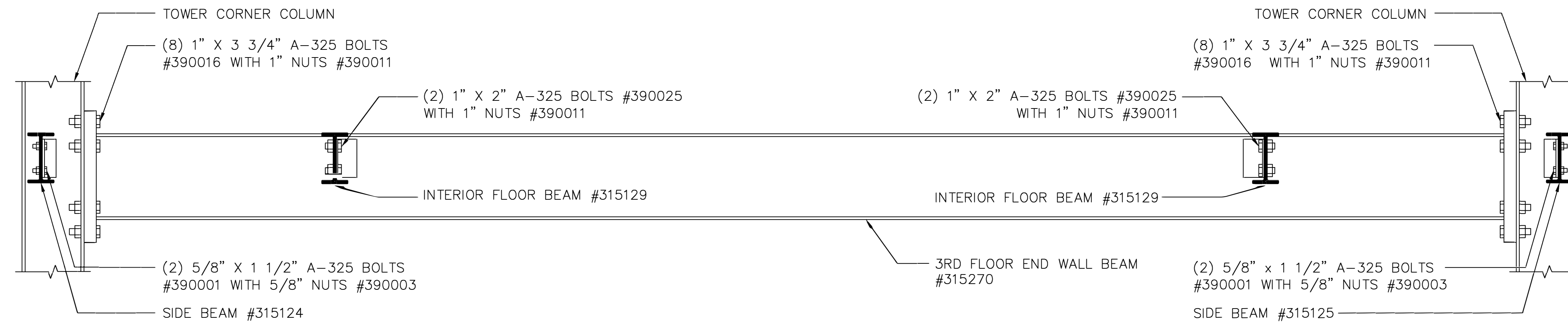
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WESCO MODEL HC-1
CUSTOM
LITHIA, FL

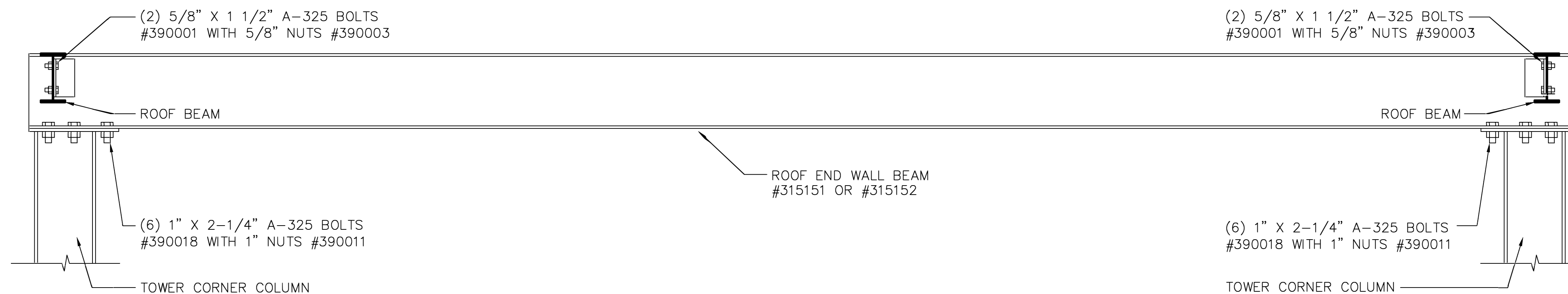
Job Description
Date MARCH 5, 2018
Drawn by GWL
Checked by SPW
Scale SHOWN
Order No. TTS-105/#199204
Sheet No.



"A" SECTION THRU SECOND FLOOR TOWER FRAMING



"B" SECTION THRU THIRD FLOOR TOWER FLOOR FRAMING



"C" SECTION THRU TOWER ROOF FRAMING

REVISIONS by

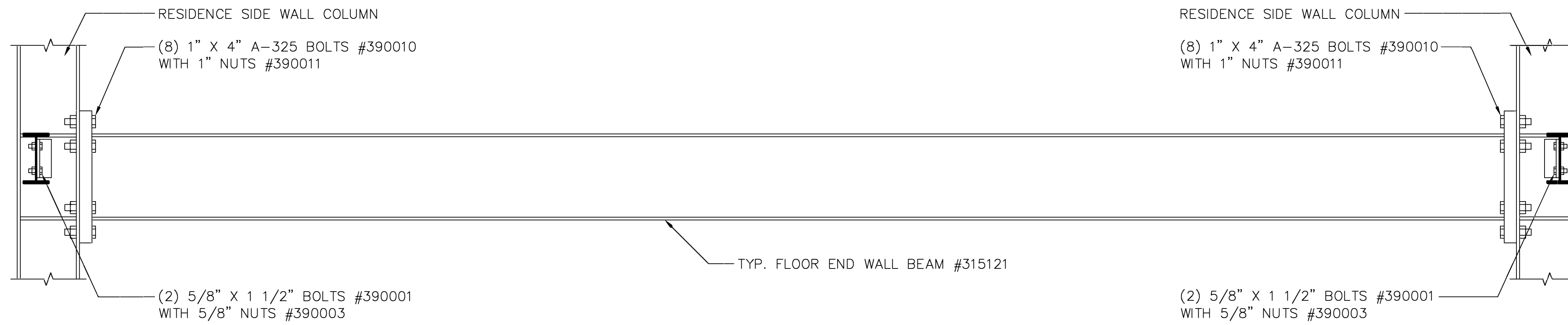
Engineer: Steven P. Wanta
Address: 314 Wilburn Road
800-925-3726
Florida License #: PE 93328

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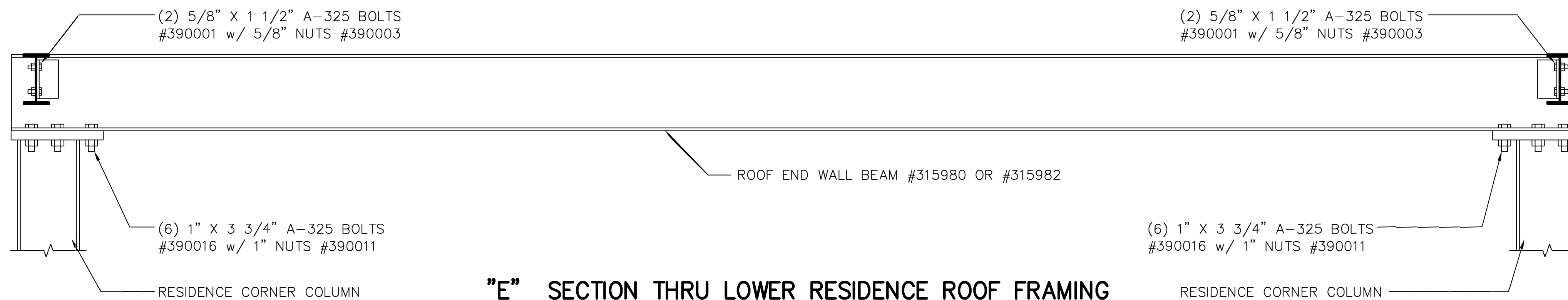
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OFFICE: (608) 327-4100 FAX (608) 834-1843
TOLL FREE (800) 925-3726 TOLL FREE FAX (866) 639-7012

Job Description: **WESCO MODEL HC-1**
CUSTOM LITHIA, FL
Sheet Title: **TOWER STRUCTURAL SECTIONS**

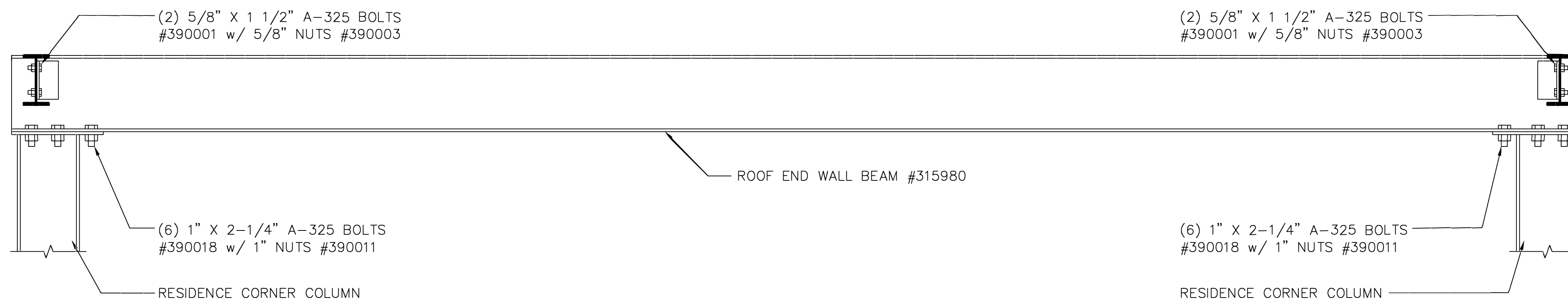
Date: MARCH 5, 2018
Drawn by: CWL
Checked by: SPW
Scale: SHOWN
Order No. TTS-105/#199204
Sheet No.



"D" SECTION THRU SECOND/THIRD FLOOR RESIDENCE FRAMING



"E" SECTION THRU LOWER RESIDENCE ROOF FRAMING



"F" SECTION THRU UPPER RESIDENCE ROOF FRAMING

REVISIONS by

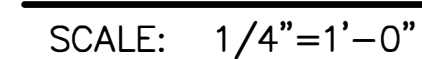
Engineer: Steven P. Wentz
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Job Description: **WESCO MODEL HC-1**
CUSTOM LITHIA, FL
Sheet Title: **RESIDENTIAL STRUCTURAL SECTIONS**

Date: MARCH 5, 2018
Drawn by: GWL
Checked by: SPW
Scale: SHOWN
Order No. TTS-105/#199204
Sheet No.





ATTENTION CONTRACTORS:
METAL SHAVINGS SHALL BE
COMPLETELY REMOVED FROM THE
ROOF, FLOORS, AND STUD TRACKS AT
THE END OF EACH WORK DAY.
FAILURE TO DO SO MAY RESULT IN
PREMATURE RUST SPOTS.



SOUTH END STUD WALL FRAMING ELEVATION

SCALE: $1/4"=1'-0"$

NOTE: MAXIMUM STUD SPACING IS 2'-0".

NOTE: FIELD CUT FRAMING AROUND FRAMED OPENINGS

NOTE: FIELD LOCATE FRAMED OPENINGS
UNLESS DIMENSIONED ON PLANS OR ELEVATIONS.



SCALE: 1/4"=1'-0"



SCALE: 1/4"=1'-0"

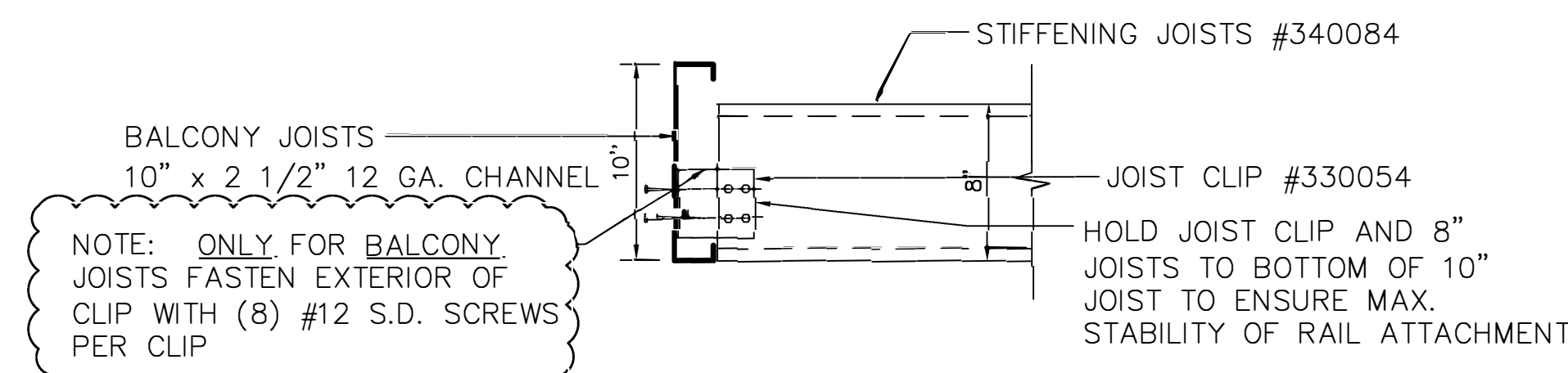


SCALE: 1/4"=1'-0"

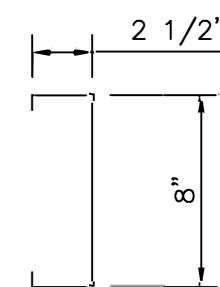
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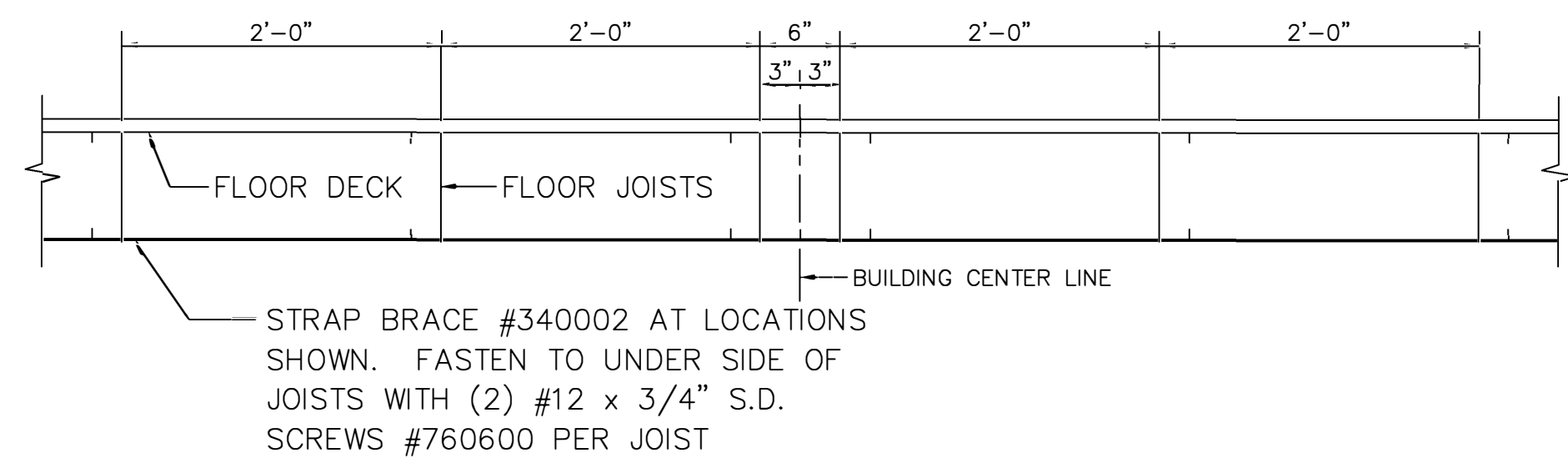
<i>Job Description</i>	WESCO MODEL HC-1 CUSTOM LITHIA, FL	<i>Sheet Title</i>	STUD WALL ELEVATIONS & DETAILS
<i>Date</i>	MARCH 5, 2018		
<i>Drawn by</i>	GWL		
<i>Checked by</i>	SPW		
<i>Scale</i>	SHOWN		
<i>Order No.</i>	TTS-105/#199204		
<i>Sheet No.</i>			



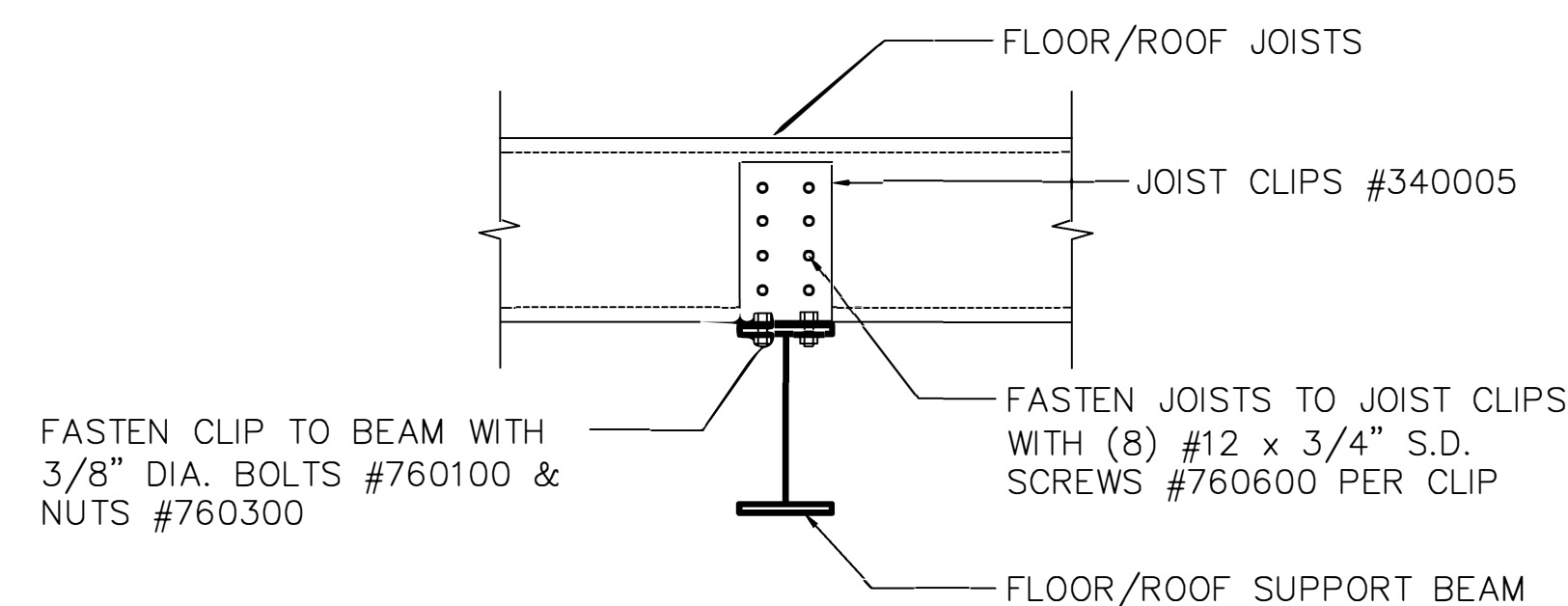
TYP. STIFFENING JOIST TO BALCONY JOIST CONN.



TYPICAL FLOOR &/or ROOF JOIST

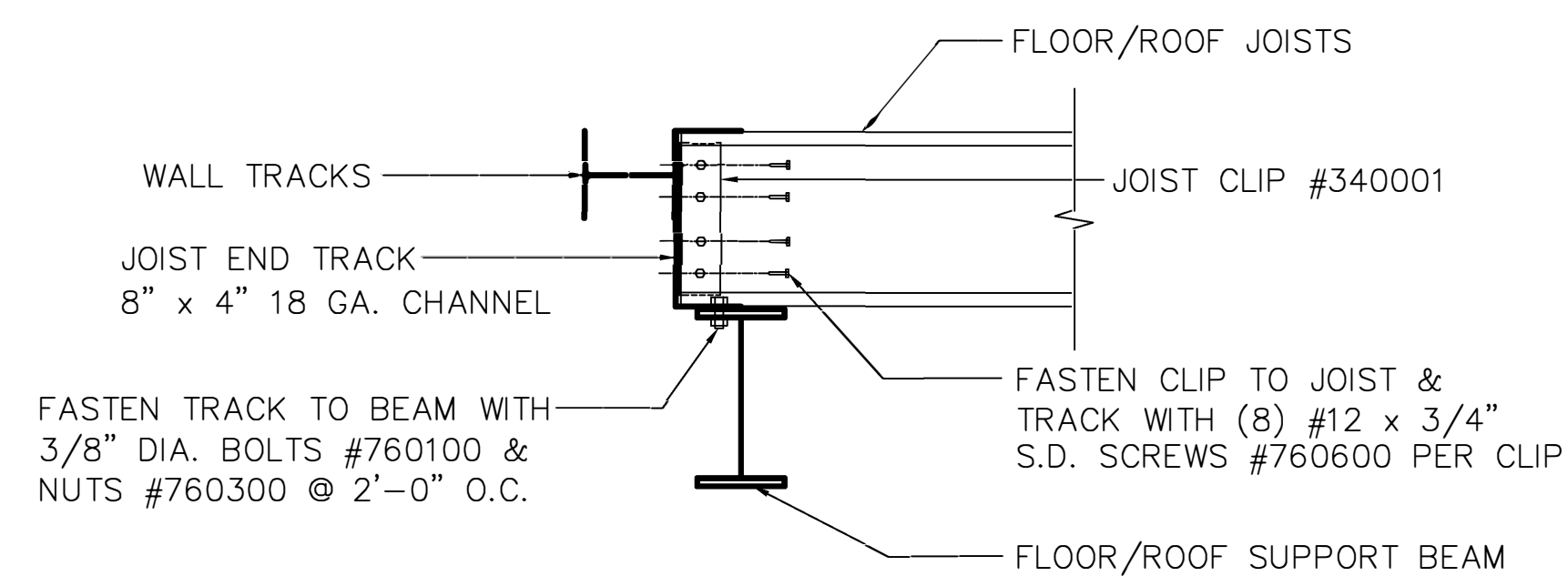


SECTION THRU FLOOR SHOWING TYP. JOIST SPACING

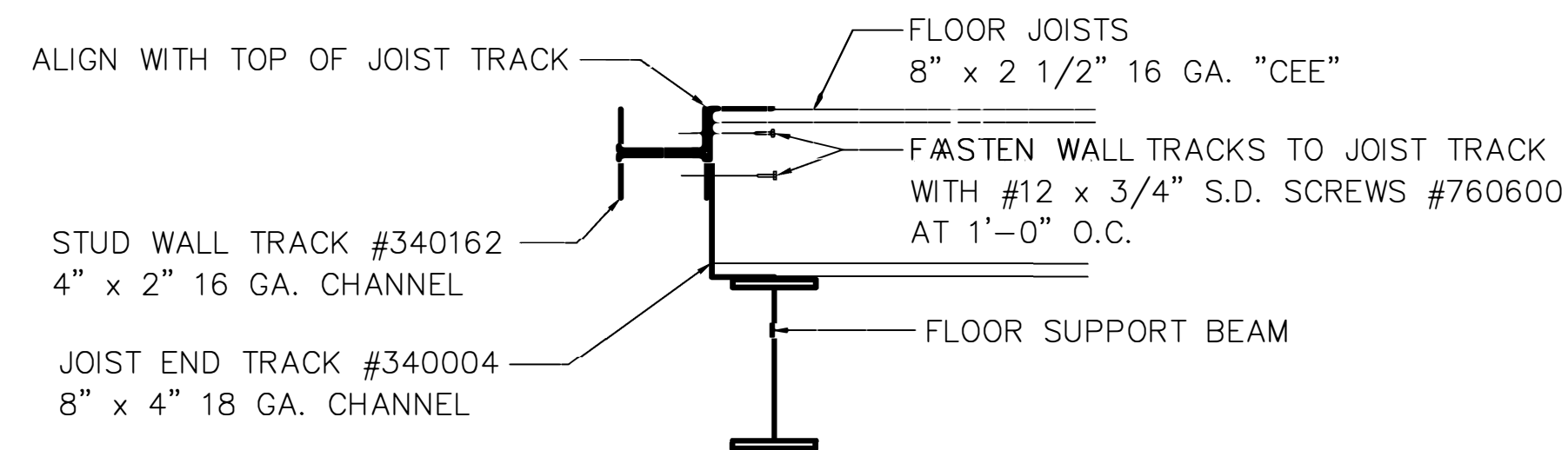


TYP. JOIST TO INTERIOR BEAM CONN.

SOME FIELD DRILLING OF HOLES IN THE STRUCT. BEAM WILL BE REQUIRED FOR THE 3/8" BOLT ATTACHMENT OF THE CLIP TO THE STRUCTURAL BEAM

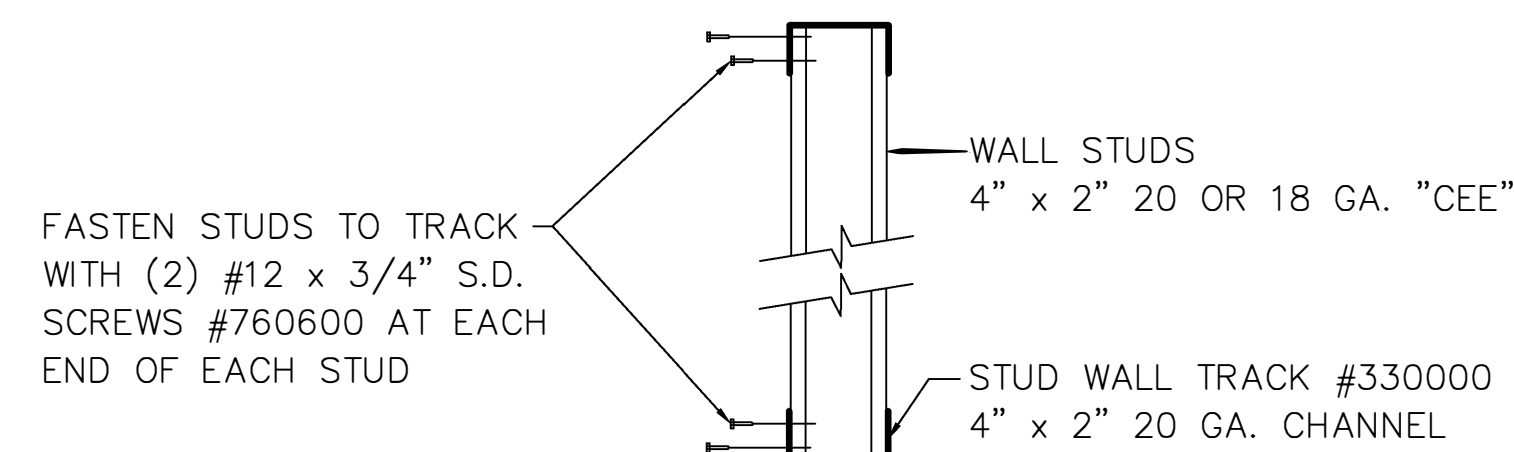


TYP. JOIST TO EXTERIOR BEAM CONN.



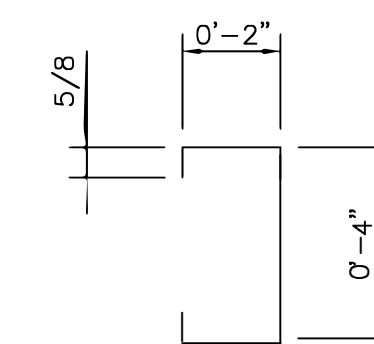
TYPICAL TOWER STUD TRACK CONNECTION

scale: 1 1/2" = 1'-0"



TYPICAL TOWER STUD CONNECTION

scale: 1 1/2" = 1'-0"



TYP. WALL STUD

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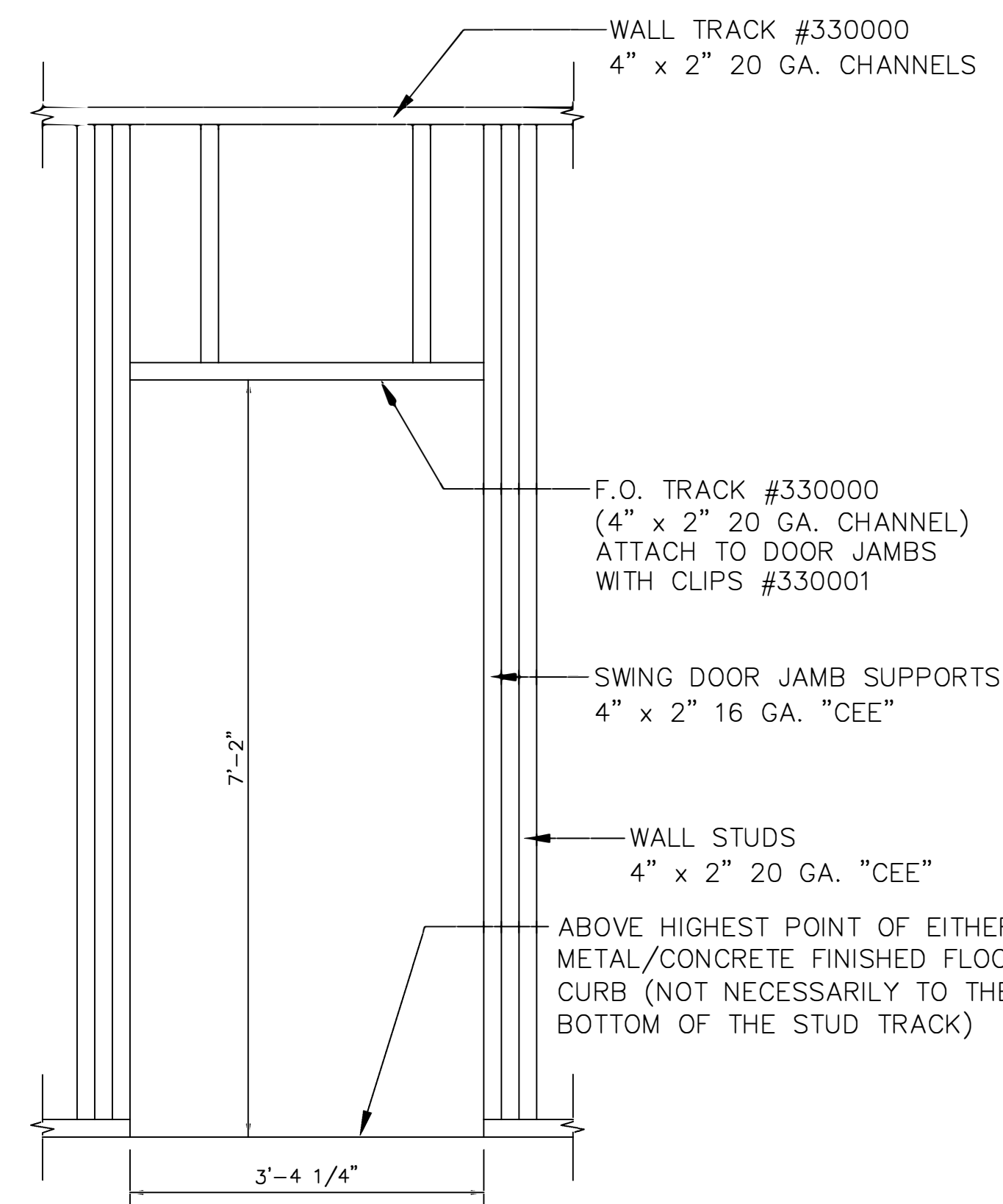
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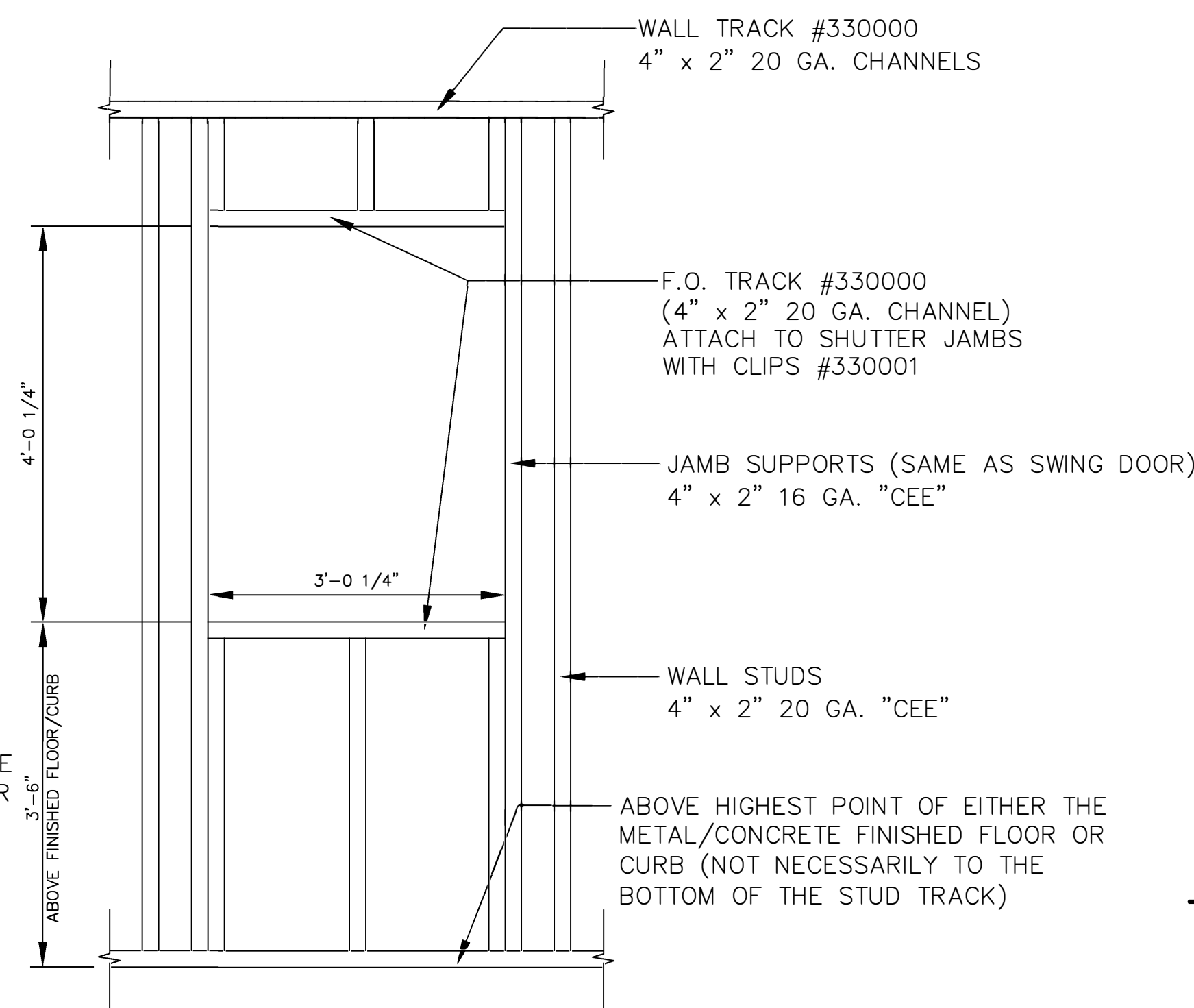
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Job Description	WESCO MODEL HC-1 CUSTOM LITHIA, FL
Date	MARCH 5, 2018
Drawn by	GWL
Checked by	SPW
Scale	SHOWN
Order No.	TTS-105/#199204
Sheet No.	MISC. DETAILS

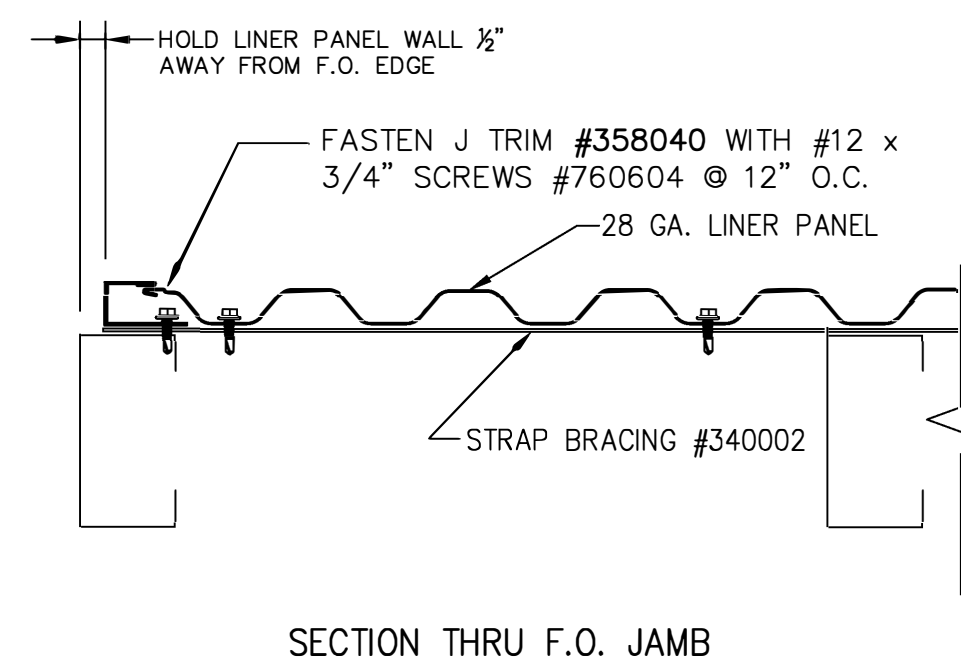
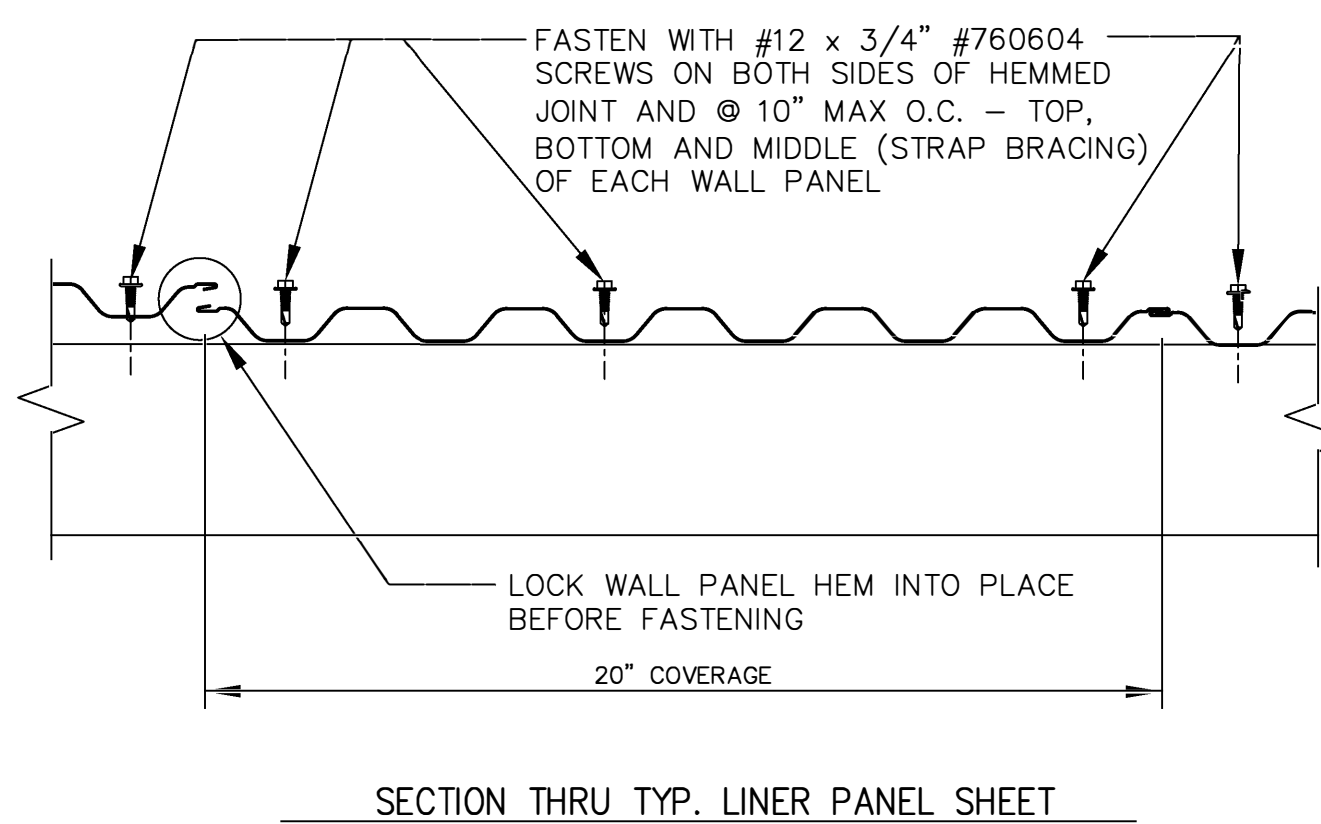
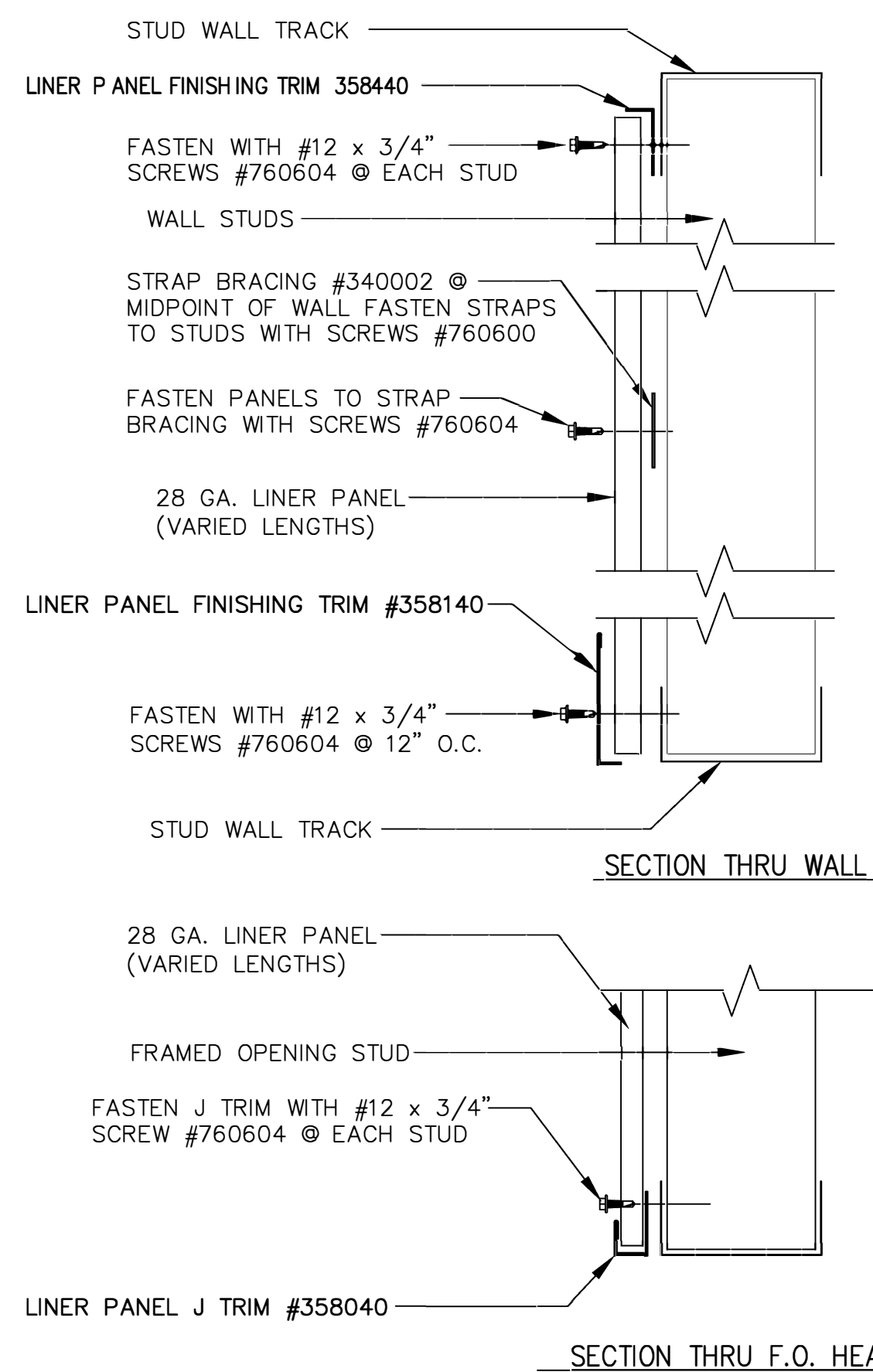
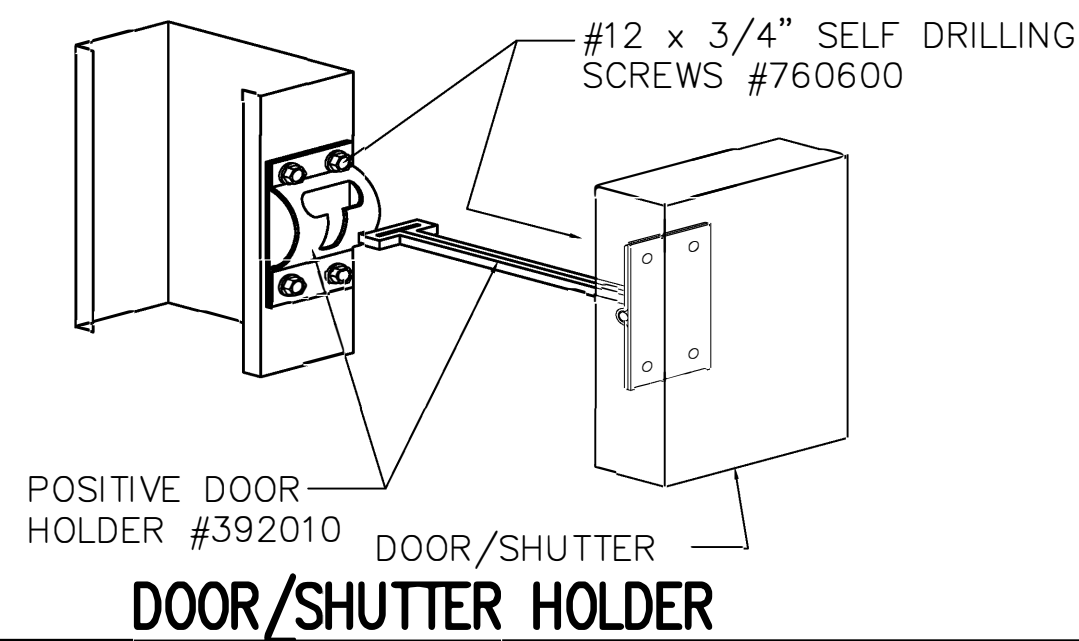
NOTE: FRAMED OPENING FRAMING WILL REQUIRE SOME FIELD CUTTING



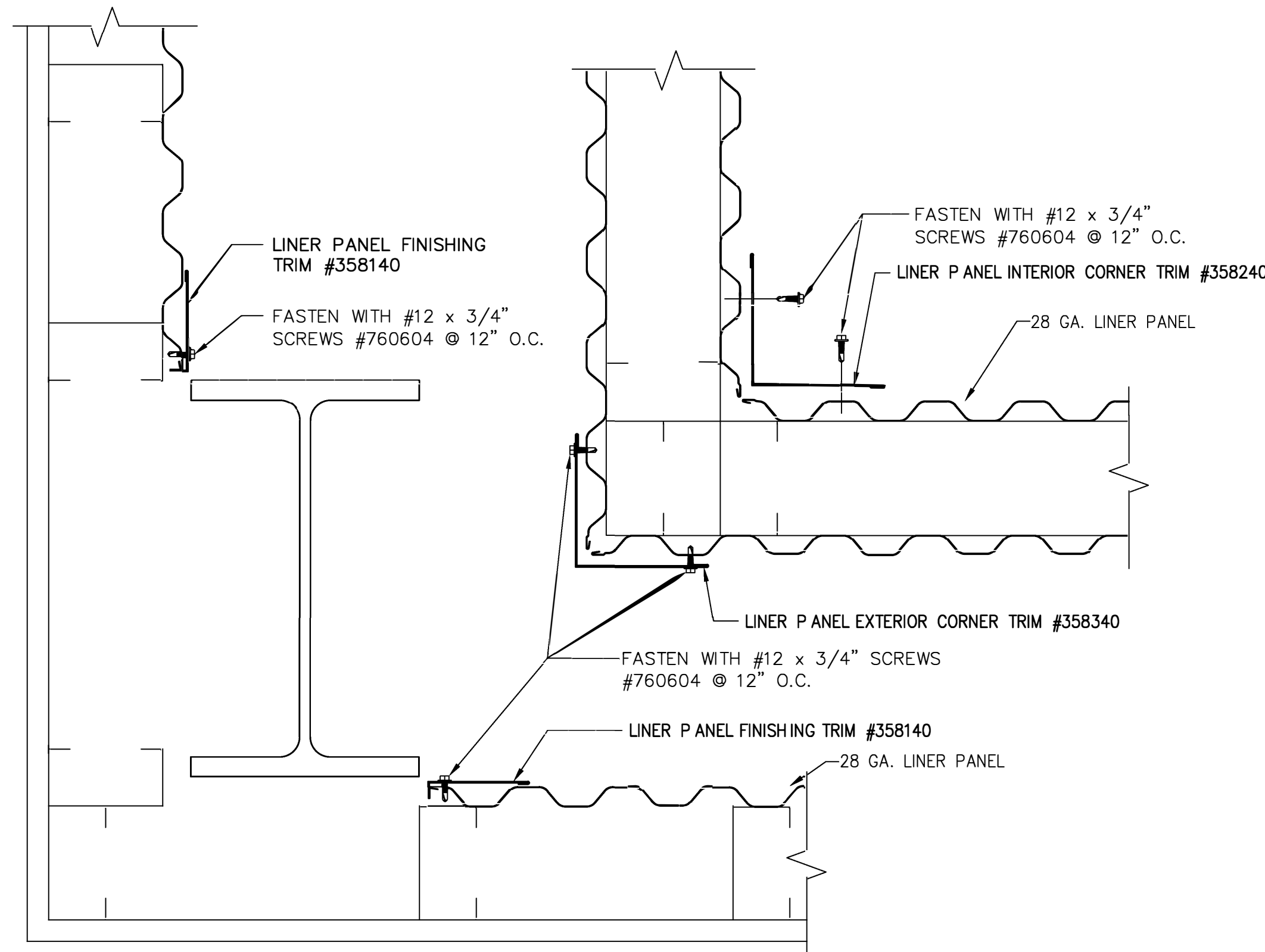
TYPICAL TOWER SWING DOOR
FRAMED OPENING ELEVATION



TYPICAL TOWER WINDOW/SHUTTER
FRAMED OPENING ELEVATION



LINER PANEL FASTENING DETAILS



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Job Description:	WESCO MODEL HC-1 CUSTOM LITHIA, FL	Sheet Title:	MISC. DETAILS
Date:	MARCH 5, 2018	Drawn by:	GWL
Checked by:	SPW	Scale:	SHOWN
Order No.	TTS-105/#199204	Sheet No.	14 of 19

REVISIONS	by

Engineer: Steven P. Westro
 314 Wilburn Road
 Office: (608) 327-4100
 Fax: (608) 327-4100
 License: PE 54328

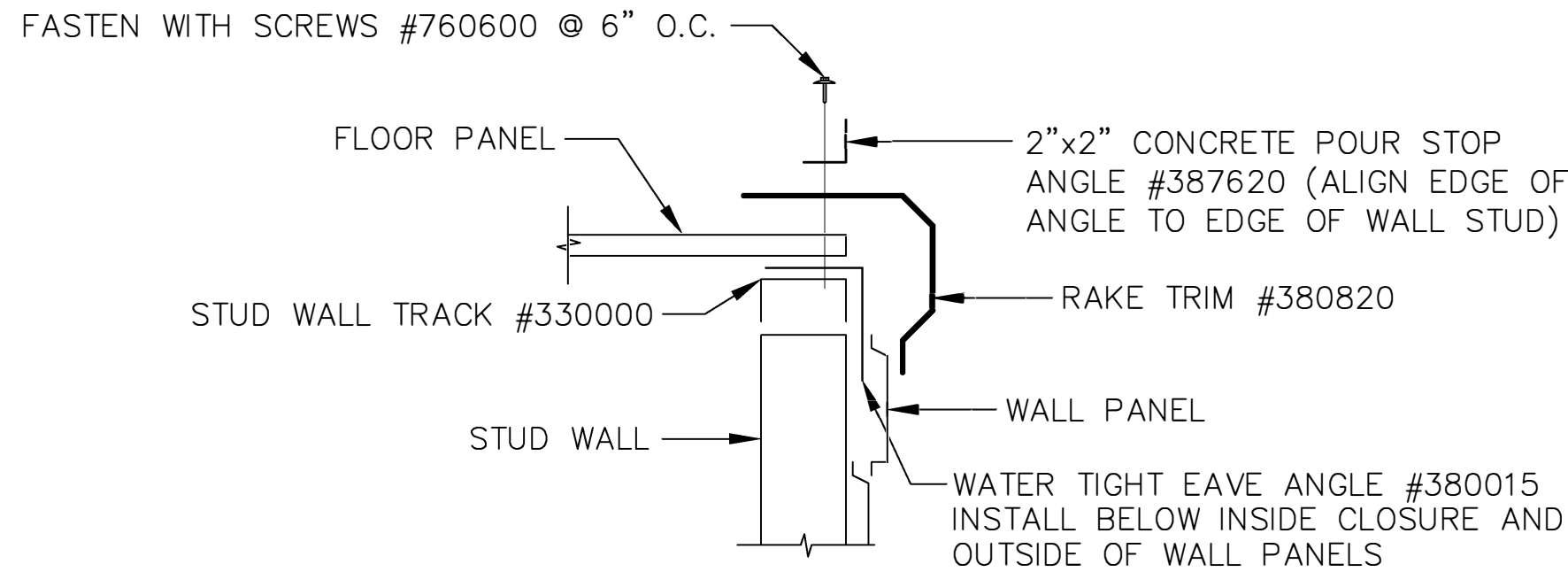
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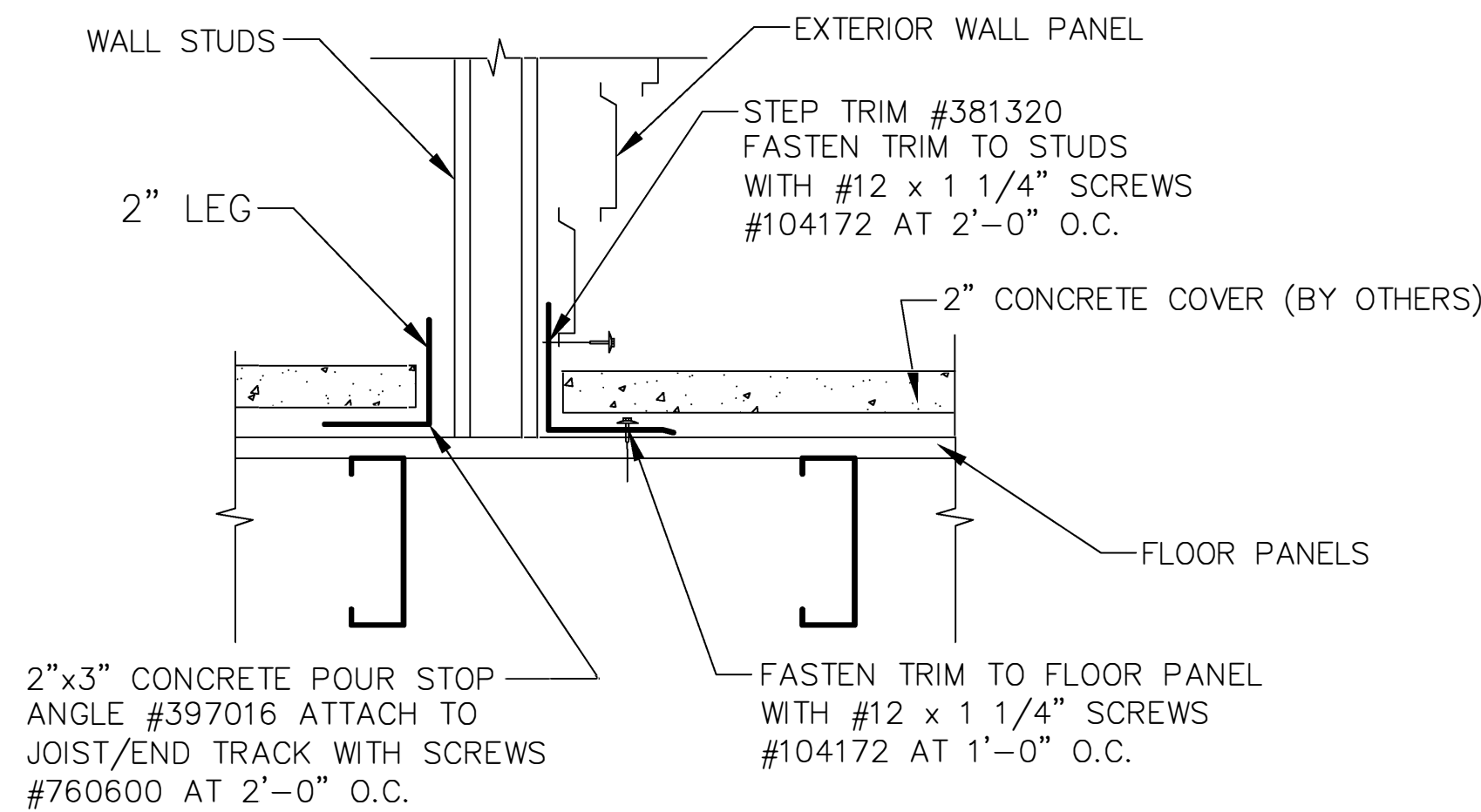


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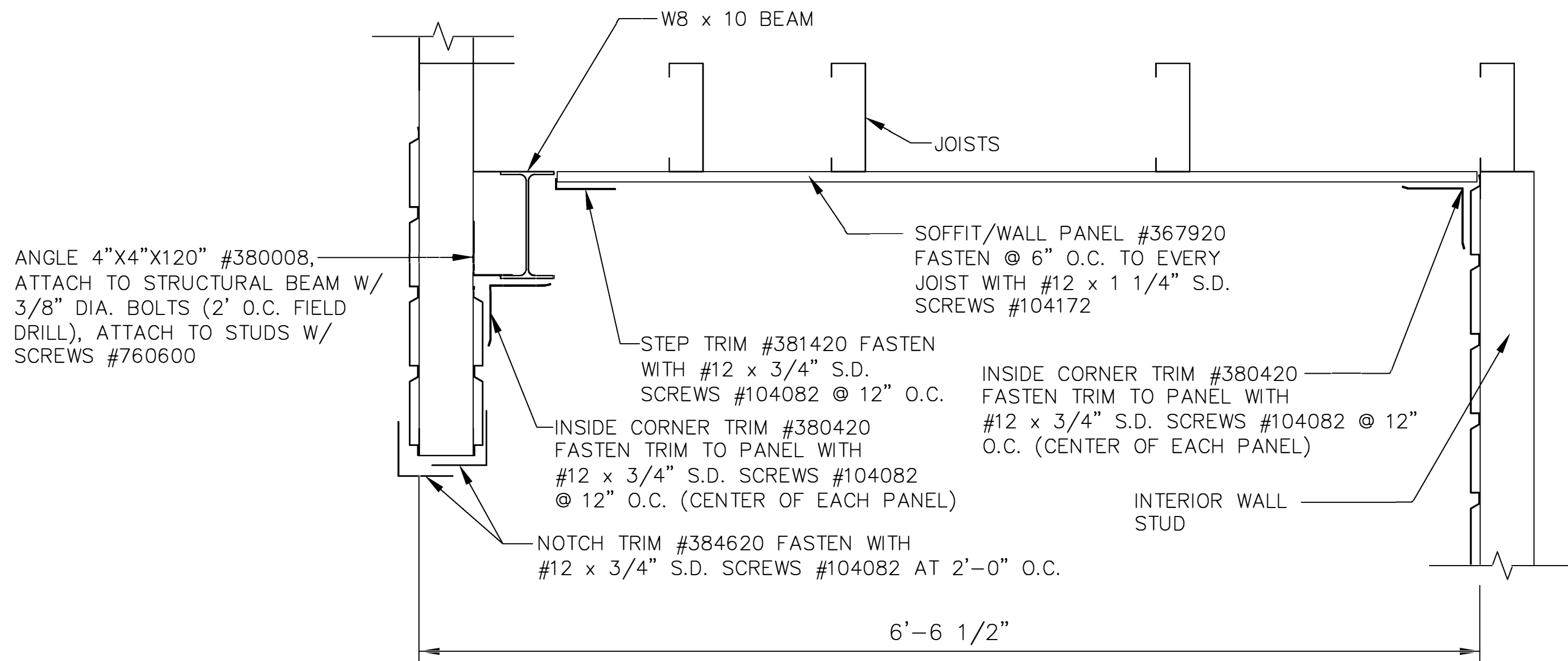
<i>Job Description</i>	WESCO MODEL HC-1	
	CUSTOM	
	LITHIA, FL	
	<i>Sheet Title</i>	
	RECESSED BALCONY DETAILS	
<i>Date</i>	MARCH 5, 2018	
<i>Drawn by</i>	GWL	
<i>Checked by</i>	SPW	
<i>Scale</i>	SHOWN	
<i>Order No.</i>	TTS-105/#199204	
<i>Sheet No.</i>		
15 of 19		



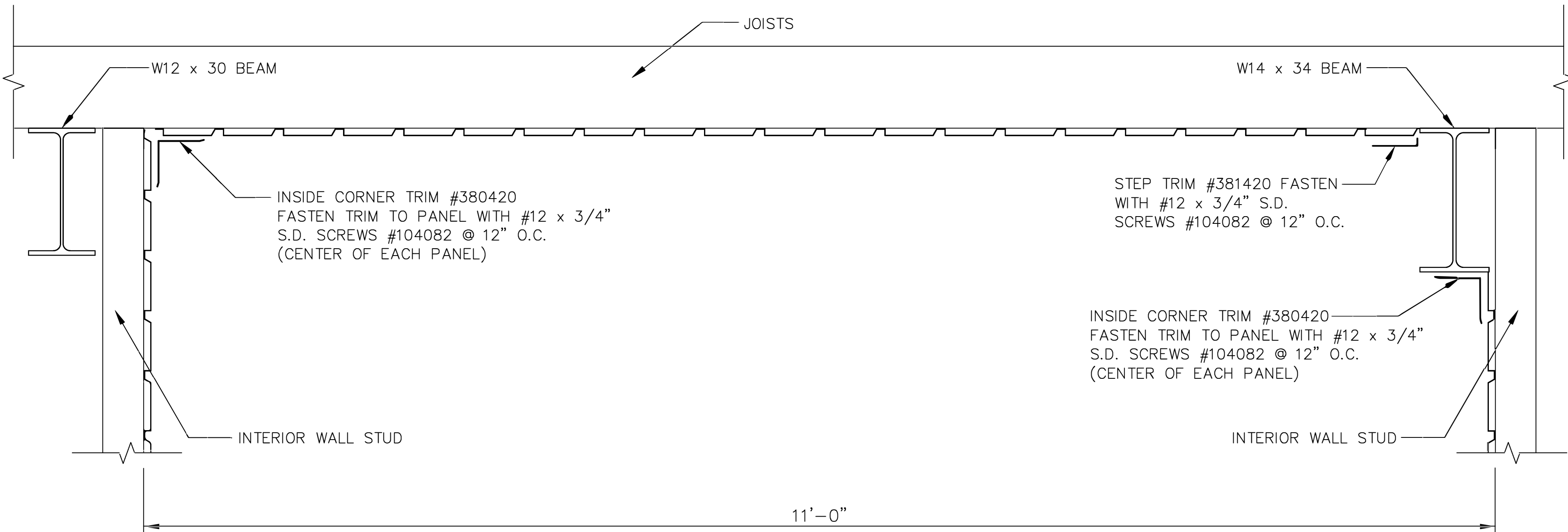
RECESSED BALCONY FLOOR EDGE DETAIL



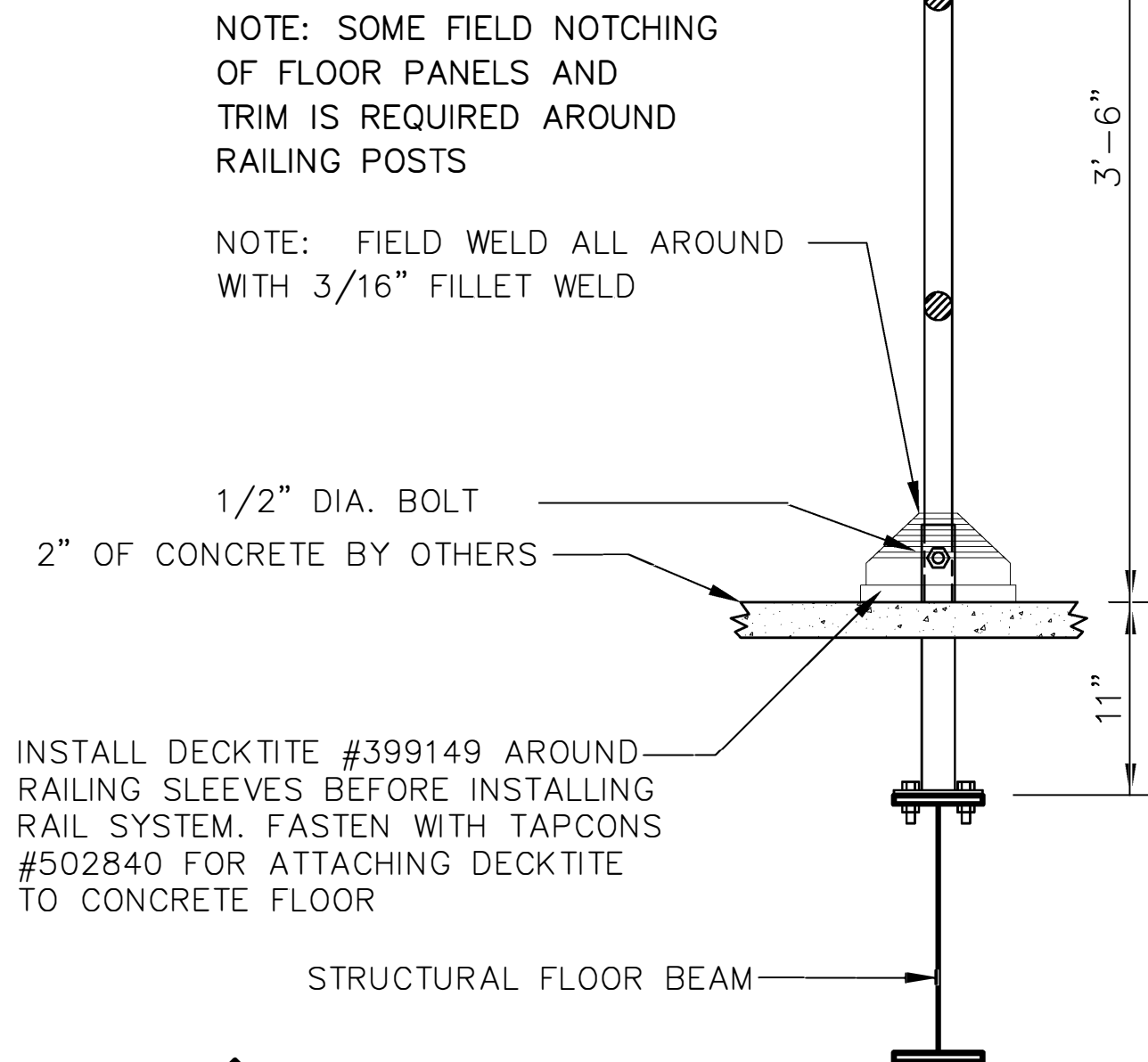
RESIDENCE RECESSED AREA STEP TRIM DETAIL



SECTION THRU RECESSED BALCONY CEILING



SECTION THRU RECESSED BALCONY CEILING



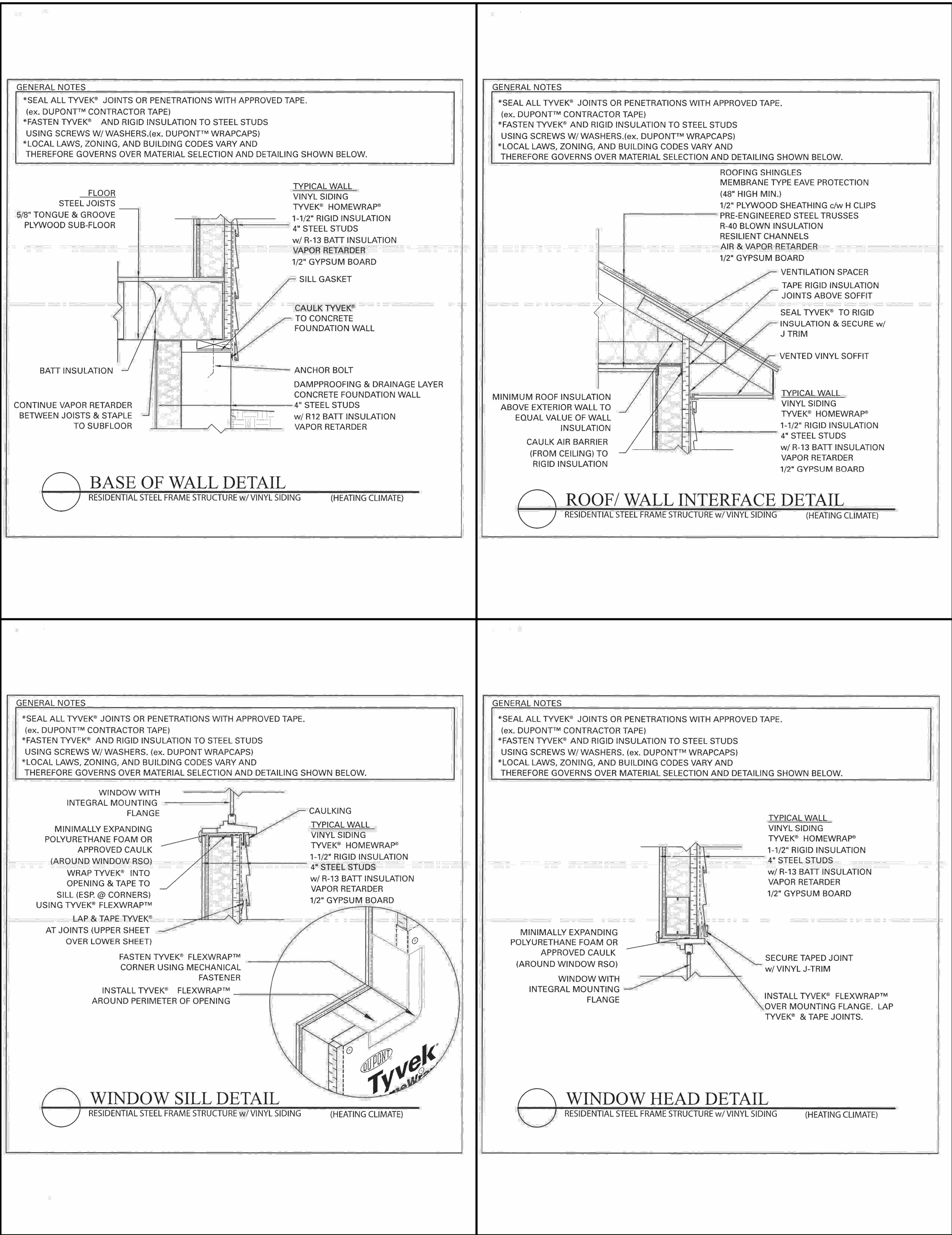
SECTION THRU HANDRAIL

IMPORTANT:

The details shown are standard details for Tyvek Homewrap and Tyvek Flexwrap. Both of these products were not included in Fire Facilities material package and are required to be supplied by the G.C.

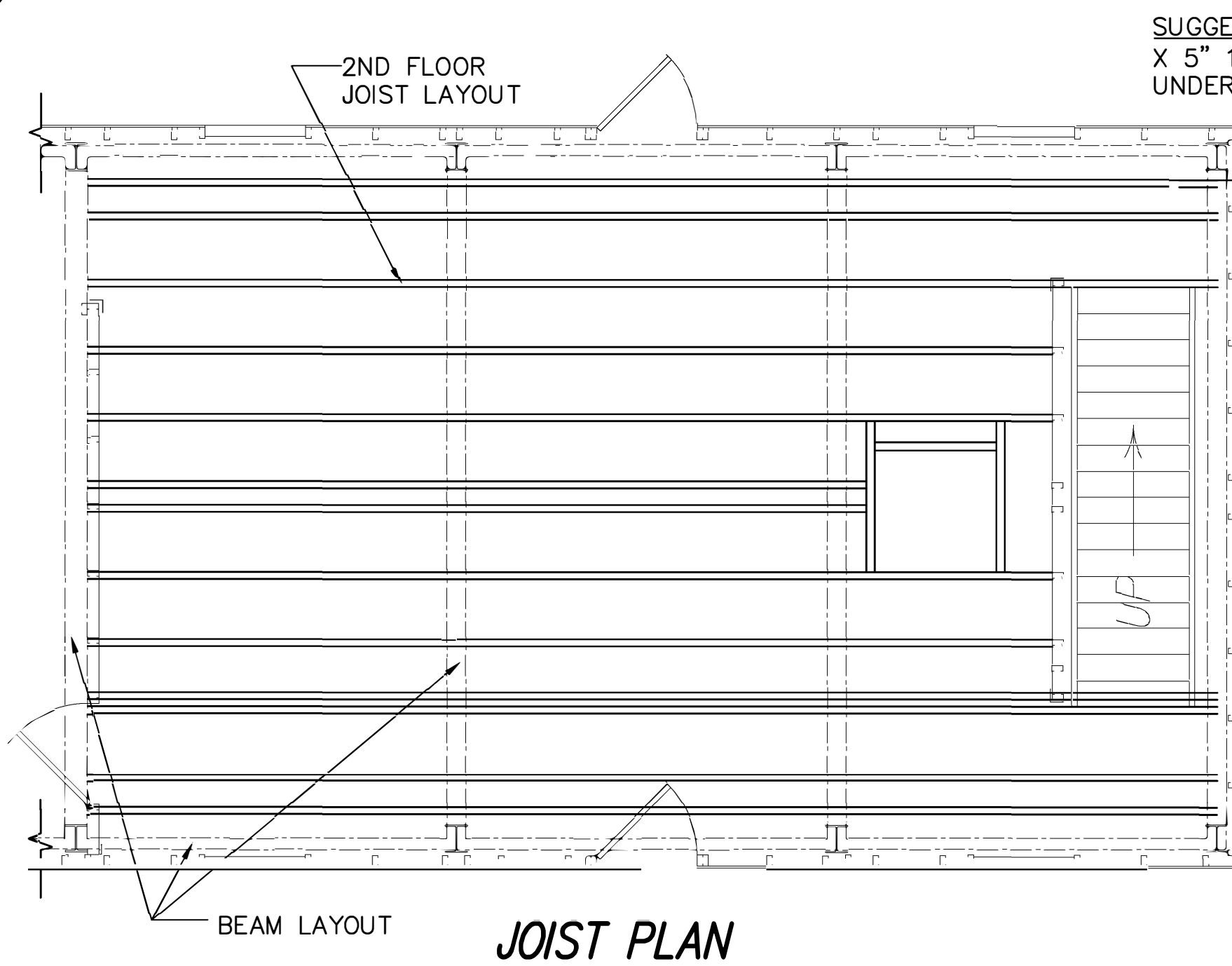
The tower supplied by Fire Facilities will vary from typical drawings shown, it is the G.C.'s responsibility to achieve proper product installation to ensure tower is as weatherproof as possible.

The G.C. will be held accountable to use proper installation procedures provided by the manufacturers of all weatherproofing materials supplied by the G.C.

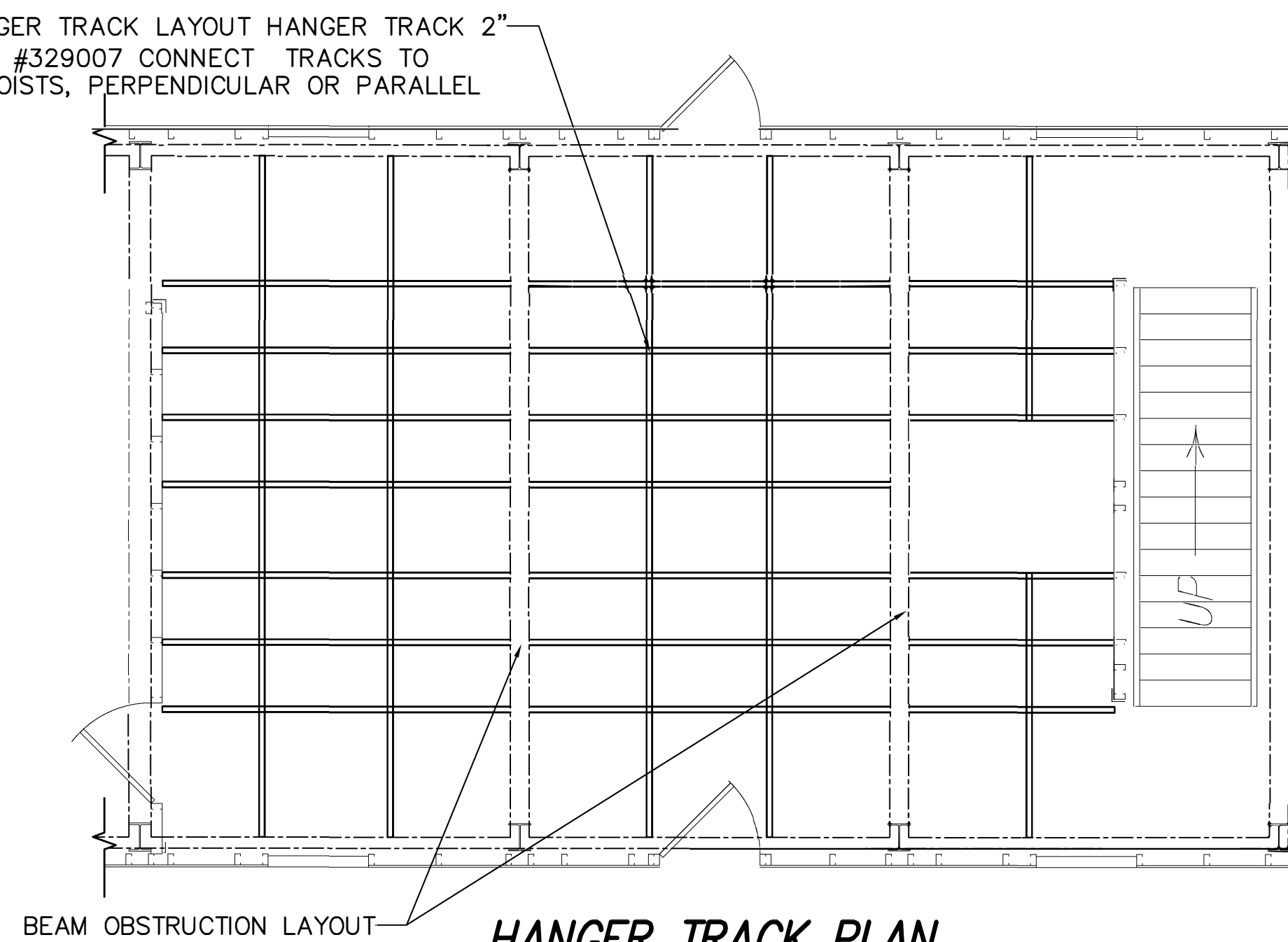


STANDARD TYPICAL HOUSE WRAP INFORMATION

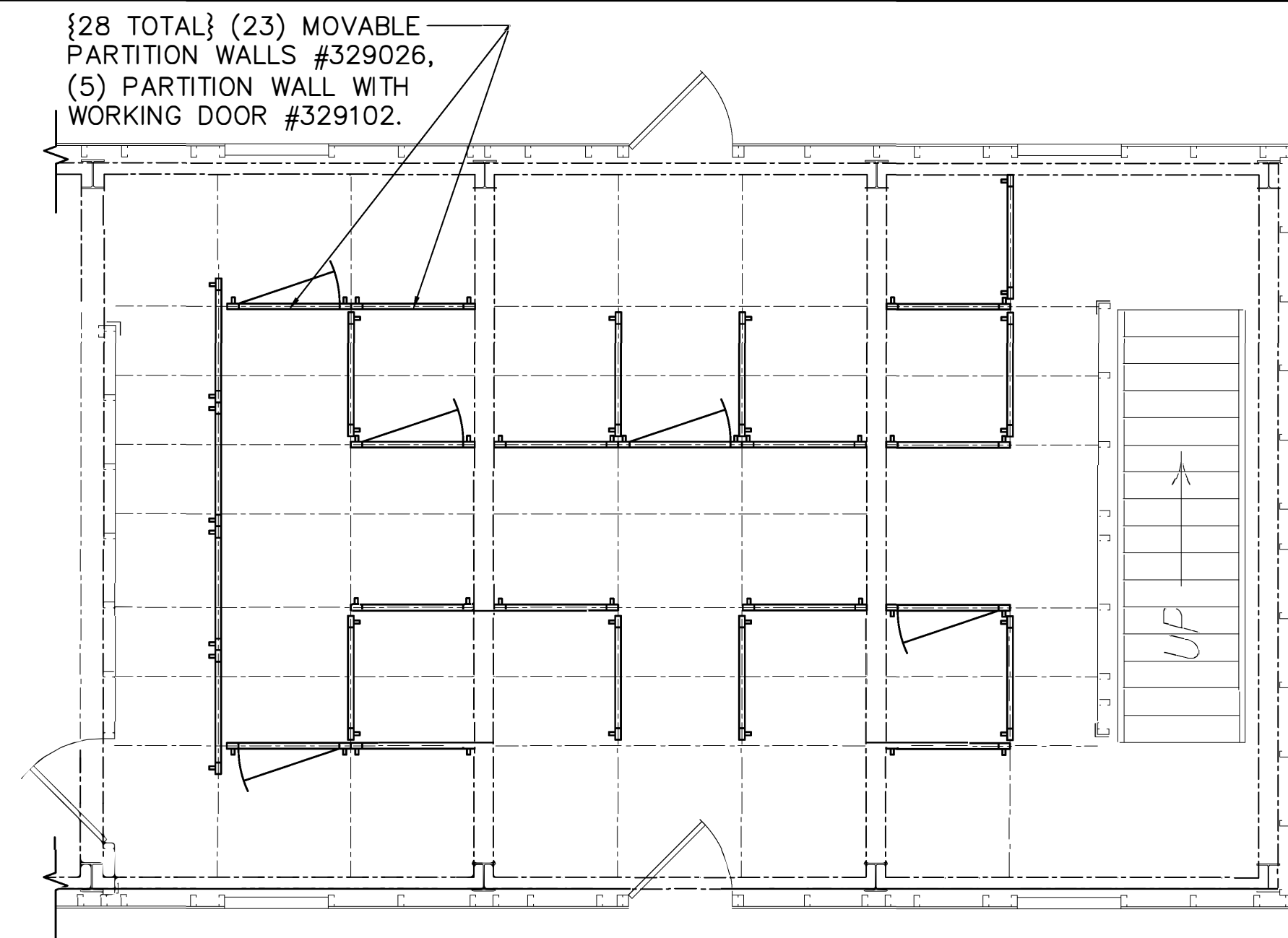
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Job Description	WESCO MODEL HC-1 CUSTOM LITHIA, FL	
Date	MARCH 5, 2018	
Drawn by	GWL	
Checked by	SPW	
Scale	SHOWN	
Order No.	TTS-105/#199204	
Sheet No.	HOUSE WRAP INFORMATION	
16 of 19		



SUGGESTED HANGER TRACK LAYOUT HANGER TRACK 2" X 5" 14 GA. "Z" #329007 CONNECT TRACKS TO UNDERSIDE OF JOISTS, PERPENDICULAR OR PARALLEL

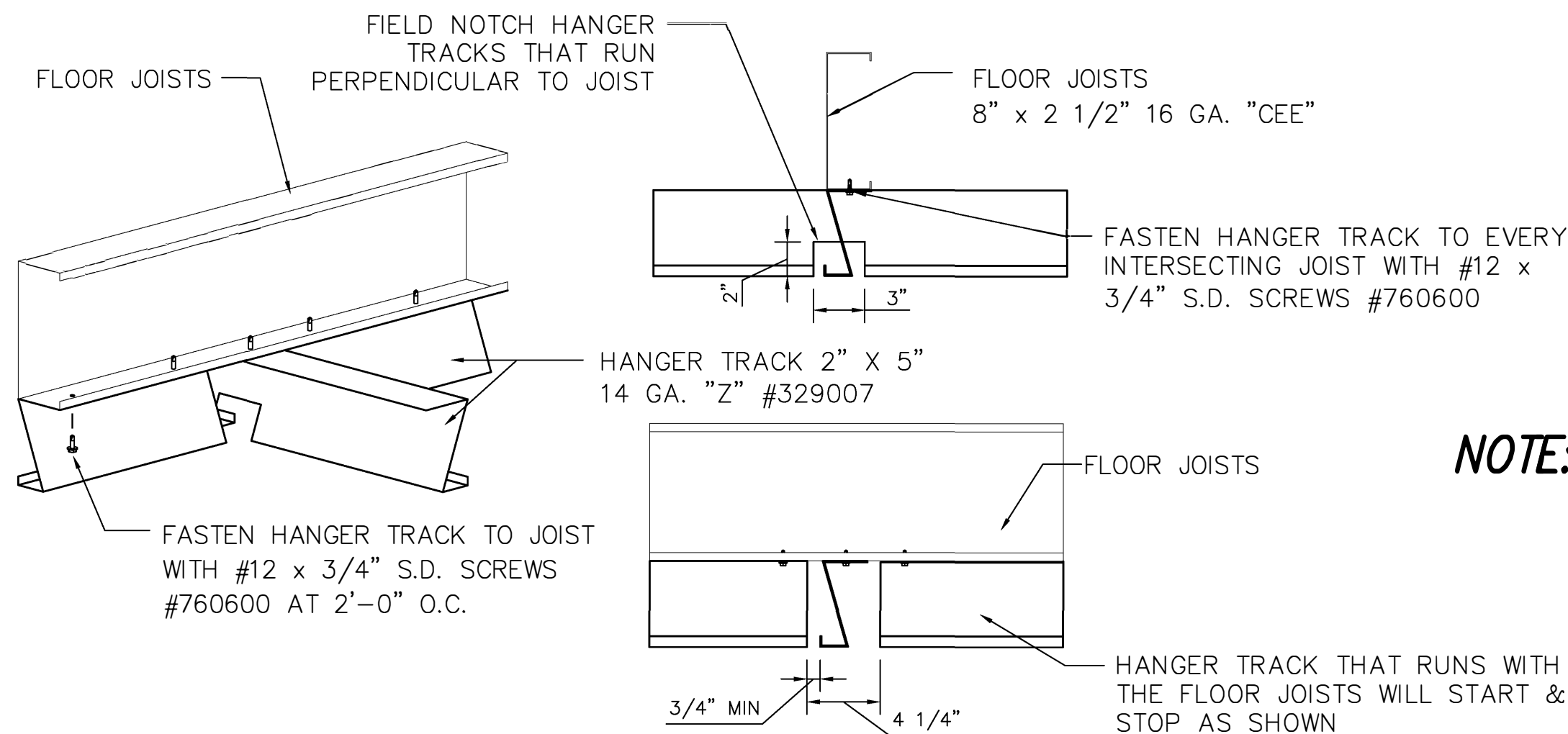


1ST FLOOR HANGER TRACK/PARTITION WALL LAYOUT



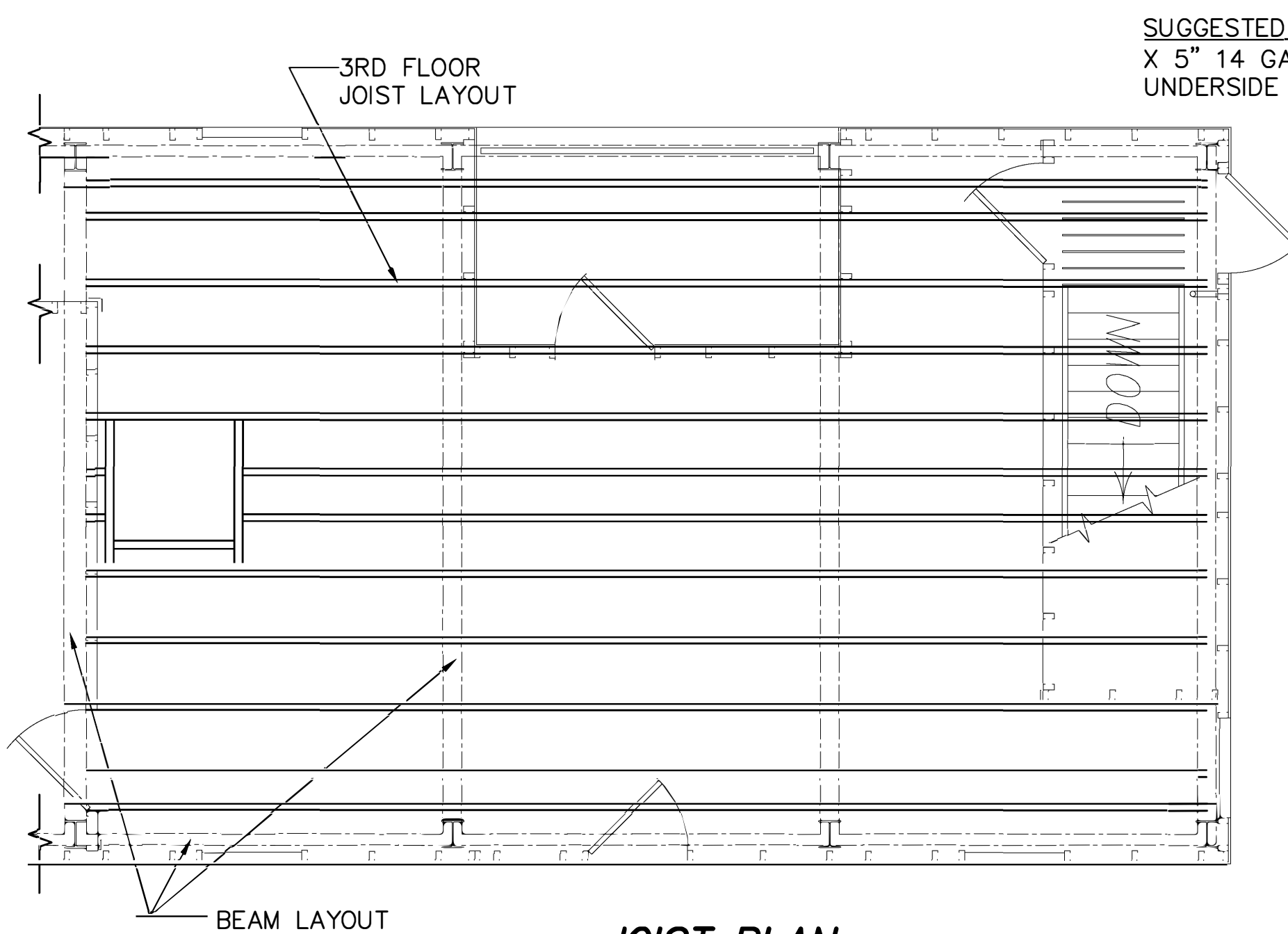
{28 TOTAL} (23) MOVABLE PARTITION WALLS #329026, (5) PARTITION WALL WITH WORKING DOOR #329102.

SCALE: 1/4" = 1'-0"

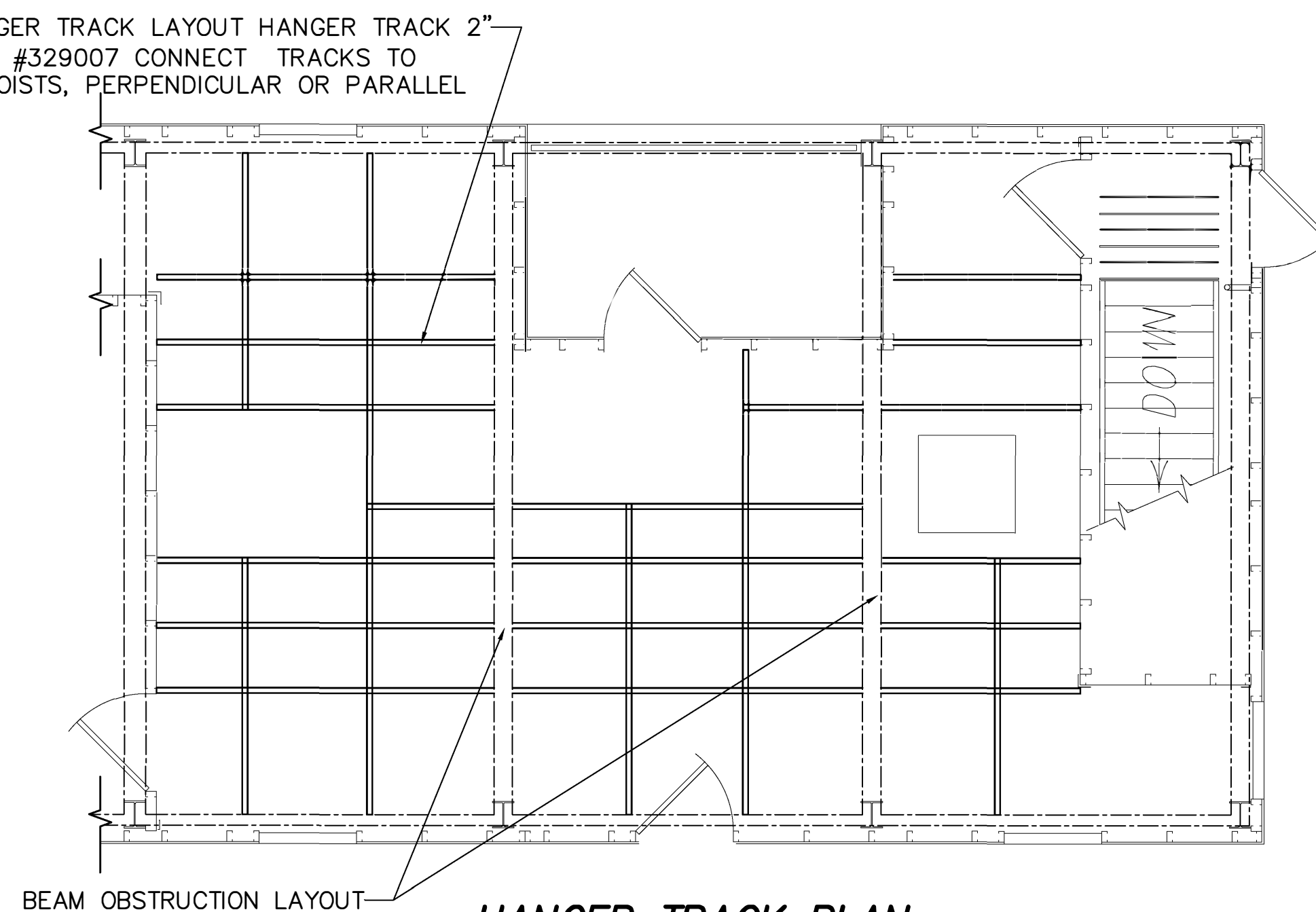


TYPICAL HANGER TRACK INTERSECTION DETAIL

NOTE: LOCATIONS OF HANGER TRACKS AND PARTITION WALLS IS A SUGGESTION ONLY ERECTOR SHOULD COORDINATE FINAL PATTERNS WITH CUSTOMER.

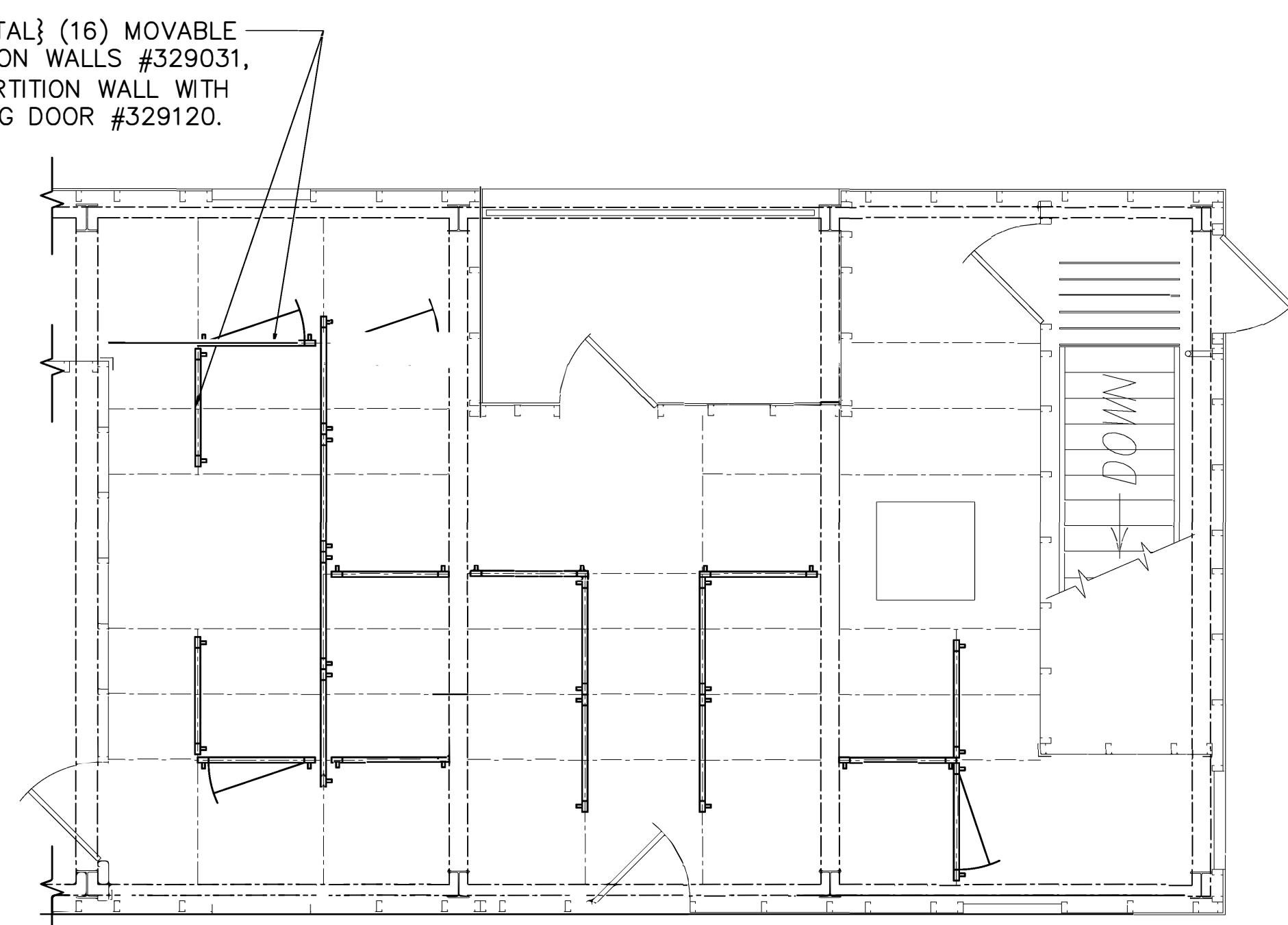


SUGGESTED HANGER TRACK LAYOUT HANGER TRACK 2" X 5" 14 GA. "Z" #329007 CONNECT TRACKS TO UNDERSIDE OF JOISTS, PERPENDICULAR OR PARALLEL



2RD FLOOR HANGER TRACK/PARTITION WALL LAYOUT

{20 TOTAL} (16) MOVABLE PARTITION WALLS #329031, (4) PARTITION WALL WITH WORKING DOOR #329120.



SCALE: 1/4" = 1'-0"

REVISIONS

by

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800-928-3726
Florida License #: PE 83328

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Job Description: **WESCO MODEL HC-1**
CUSTOM LITHIA, FL

Date: MARCH 5, 2018

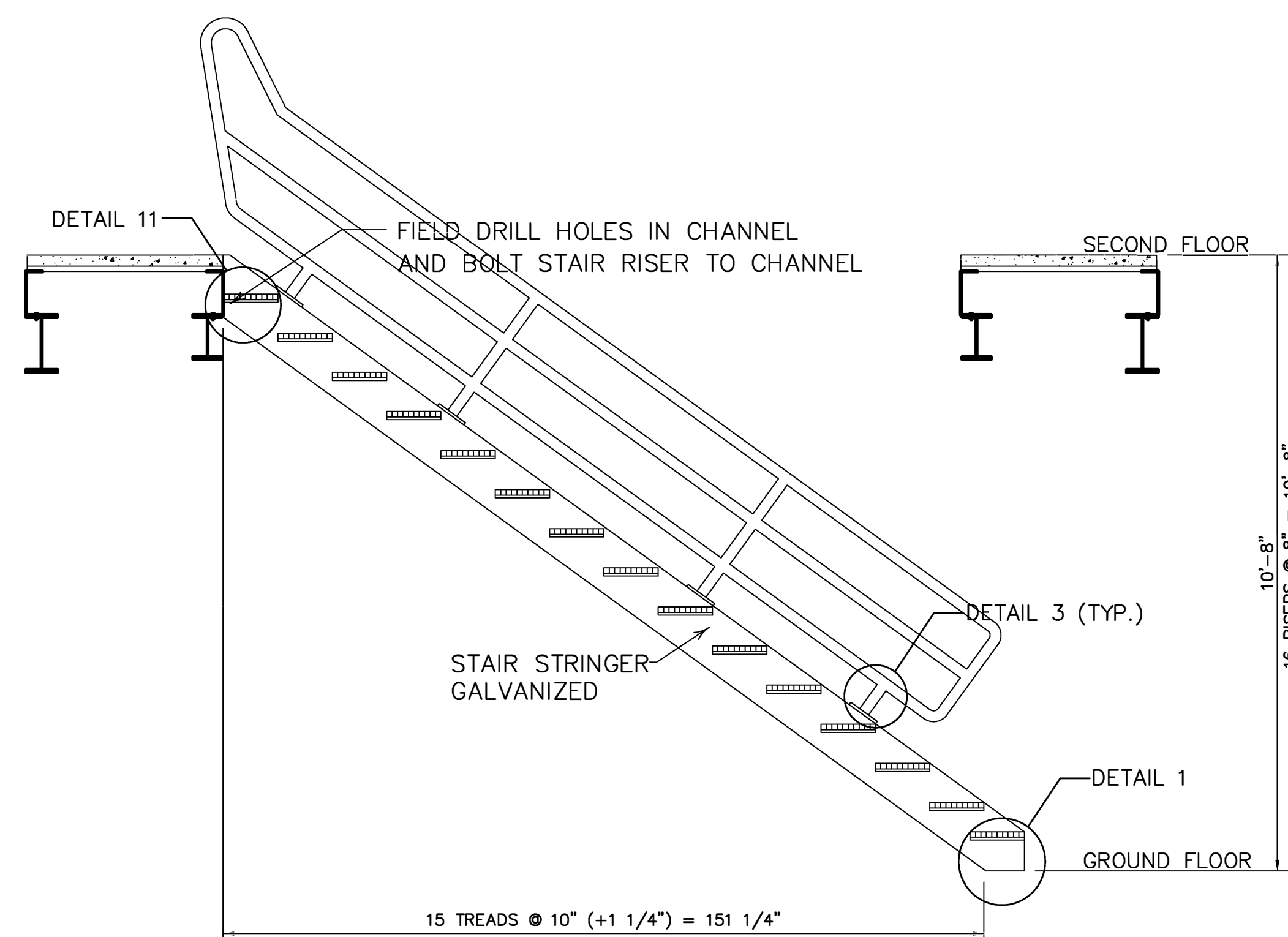
Drawn by: GWL

Checked by:

Scale: SHOWN

Order No. TTS-105/#199204

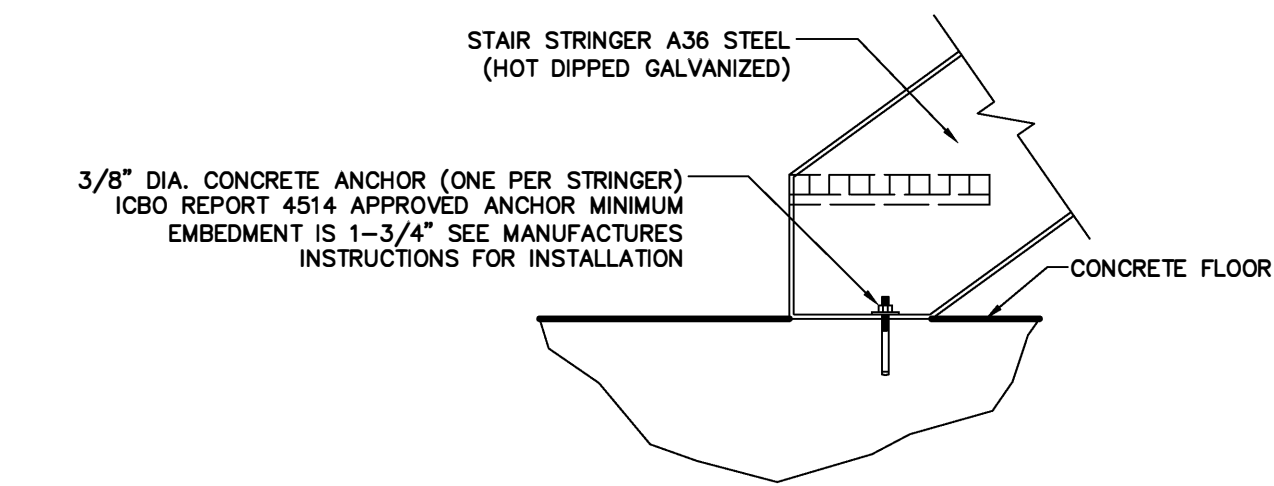
Sheet No. MOVABLE PARTITION PANEL LAYOUTS



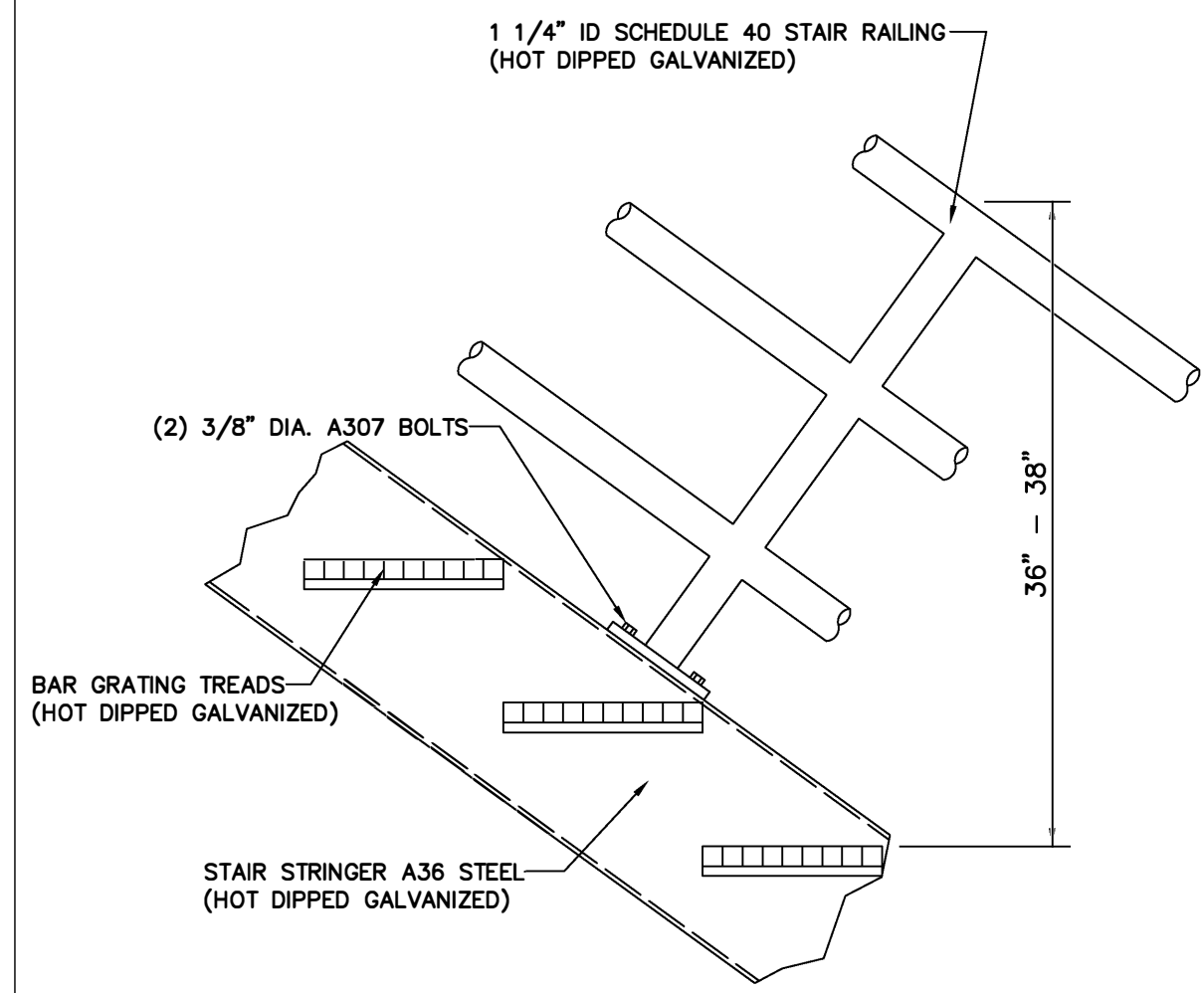
SECTION THRU STAIR scale: N.T.S.



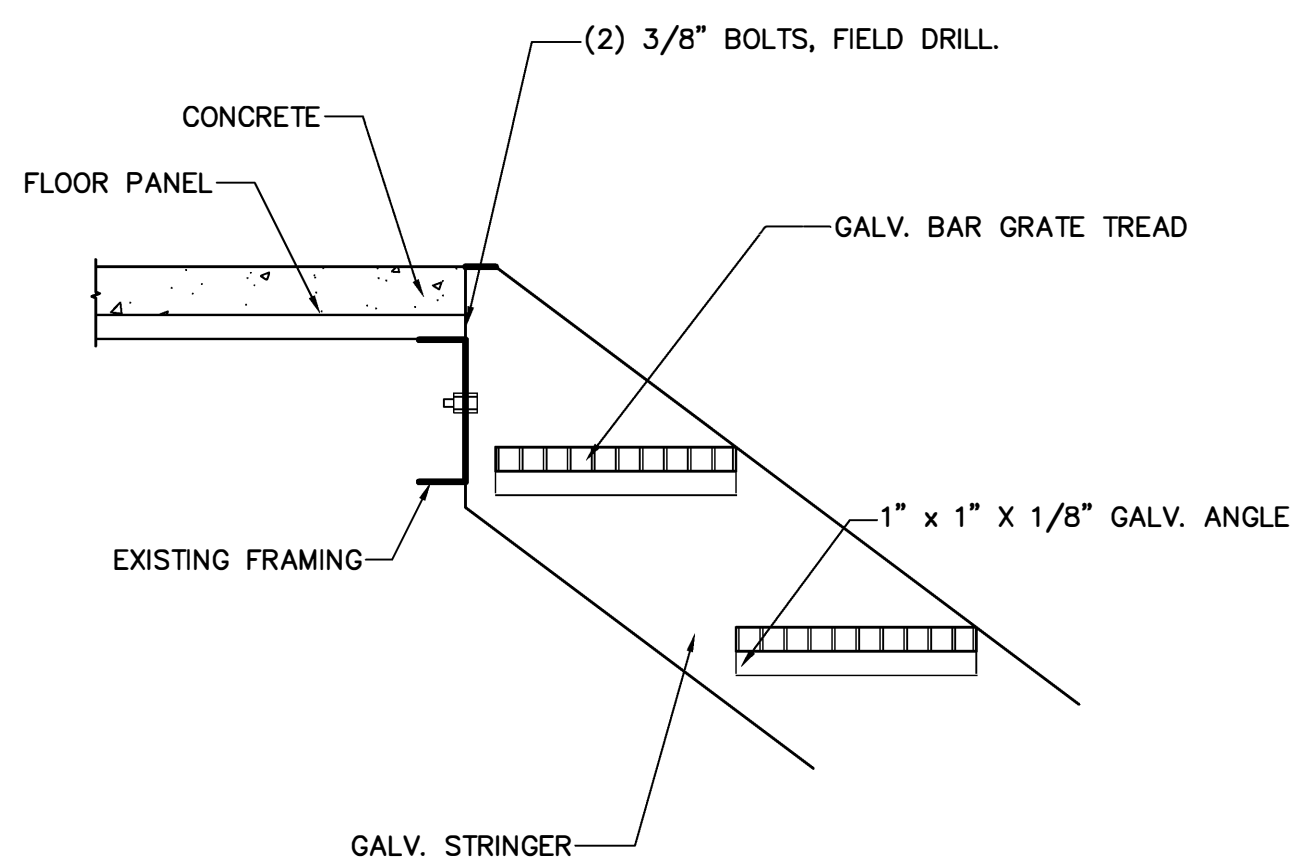
<i>Job Description:</i> WESCO MODEL HC-1 CUSTOM LITHIA, FL		<i>Sheet Title:</i> STAIR
<i>Date:</i>	MARCH 5, 2018	
<i>Drawn by:</i>	GWL	
<i>Checked by:</i>	SPW	
<i>Scale:</i>	SHOWN	
<i>Order No.</i>	TTS-105/#199204	
<i>Sheet No.</i>	18 of 19	



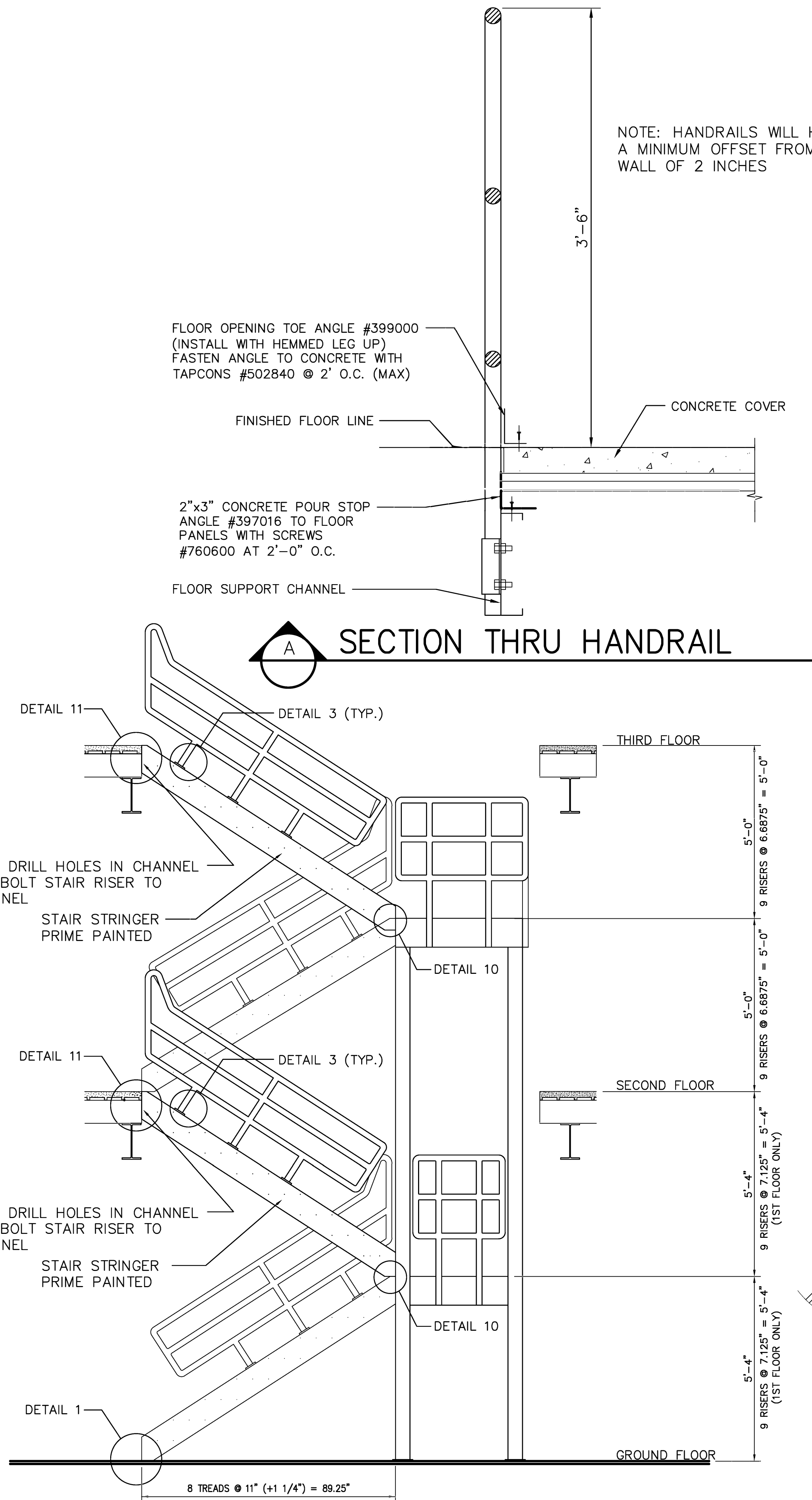
DETAIL 1



DETAIL 3

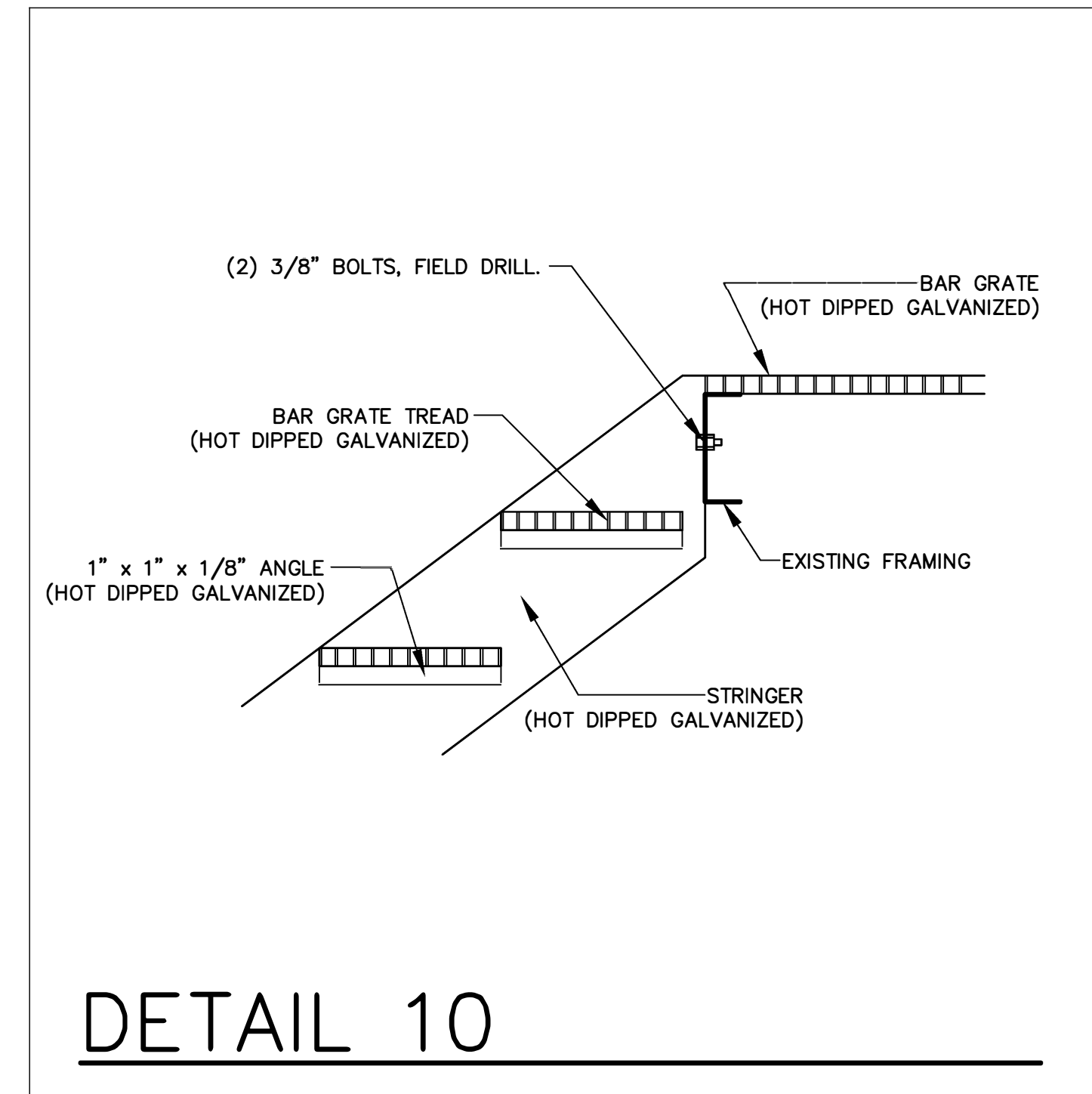


DETAIL 11

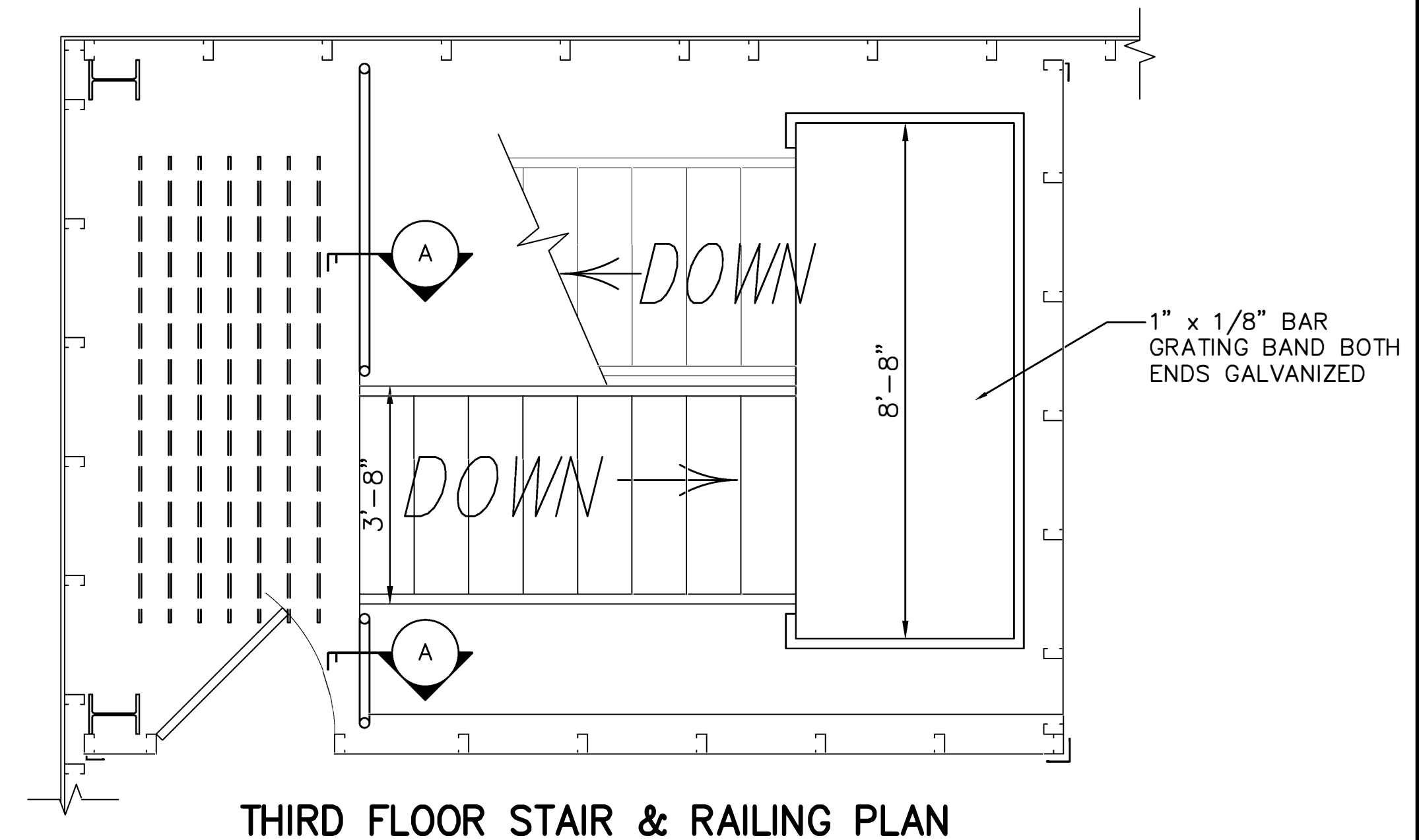


SECTION THRU STAIRS scale: N.T.S.

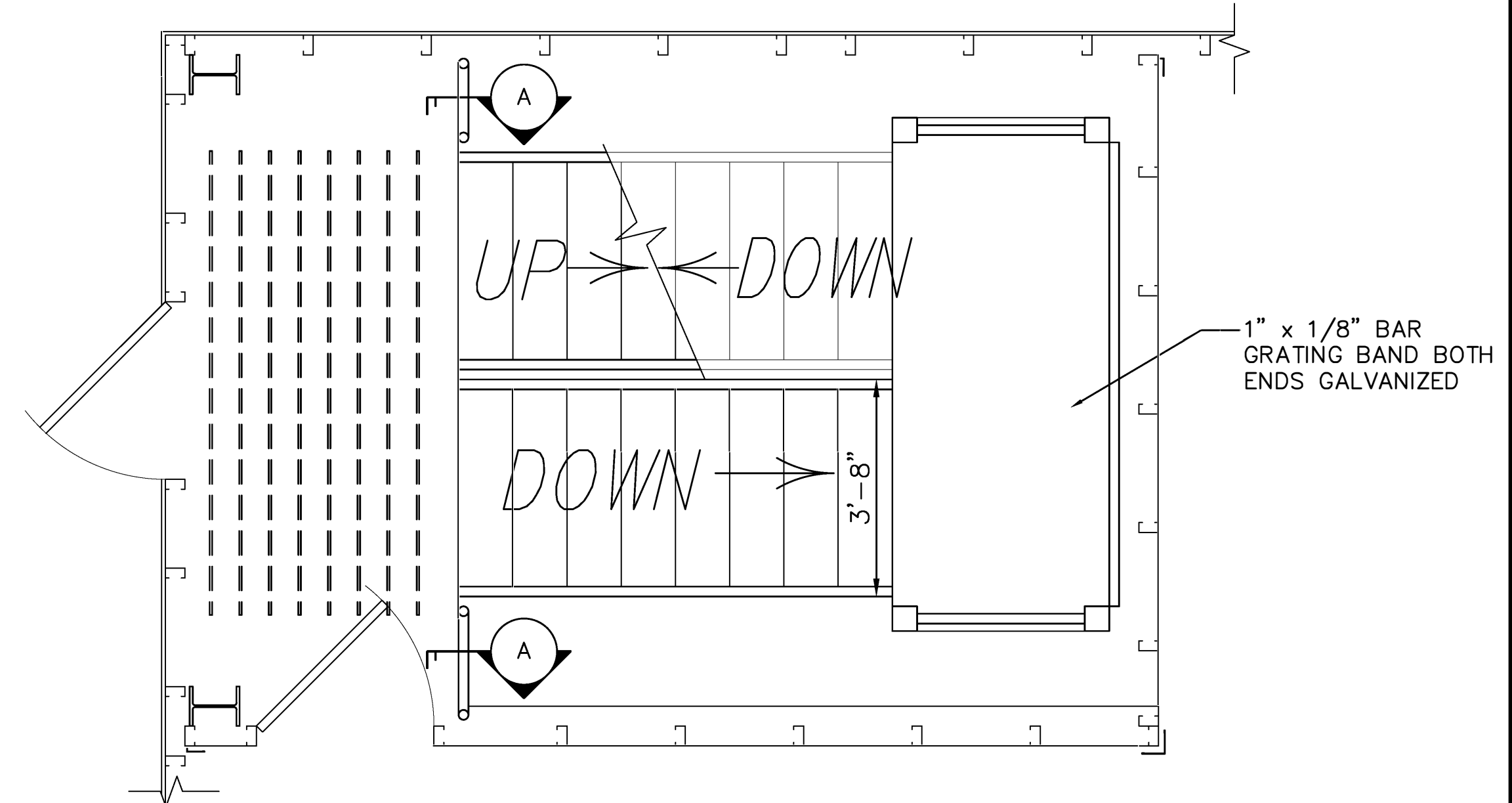
NOTE: HANDRAILS WILL HAVE A MINIMUM OFFSET FROM A WALL OF 2 INCHES



DETAIL 10



scale: N.T.S.



scale: N.T.S.

REVISIONS		by

Engineer: Shawn P. Wenzel
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 Sun Prairie, WI 53590
 Phone: 608-425-3726
 Fax: 608-425-3728
 License: PE 56328

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WESCO MODEL HC-1
 CUSTOM LITHIA, FL
 Job Description: STAIRS
 Date: MARCH 5, 2018
 Drawn by: GWL
 Checked by: SPW
 Scale: SHOWN
 Order No.: TTS-105/#199204
 Sheet No.: 19 of 19