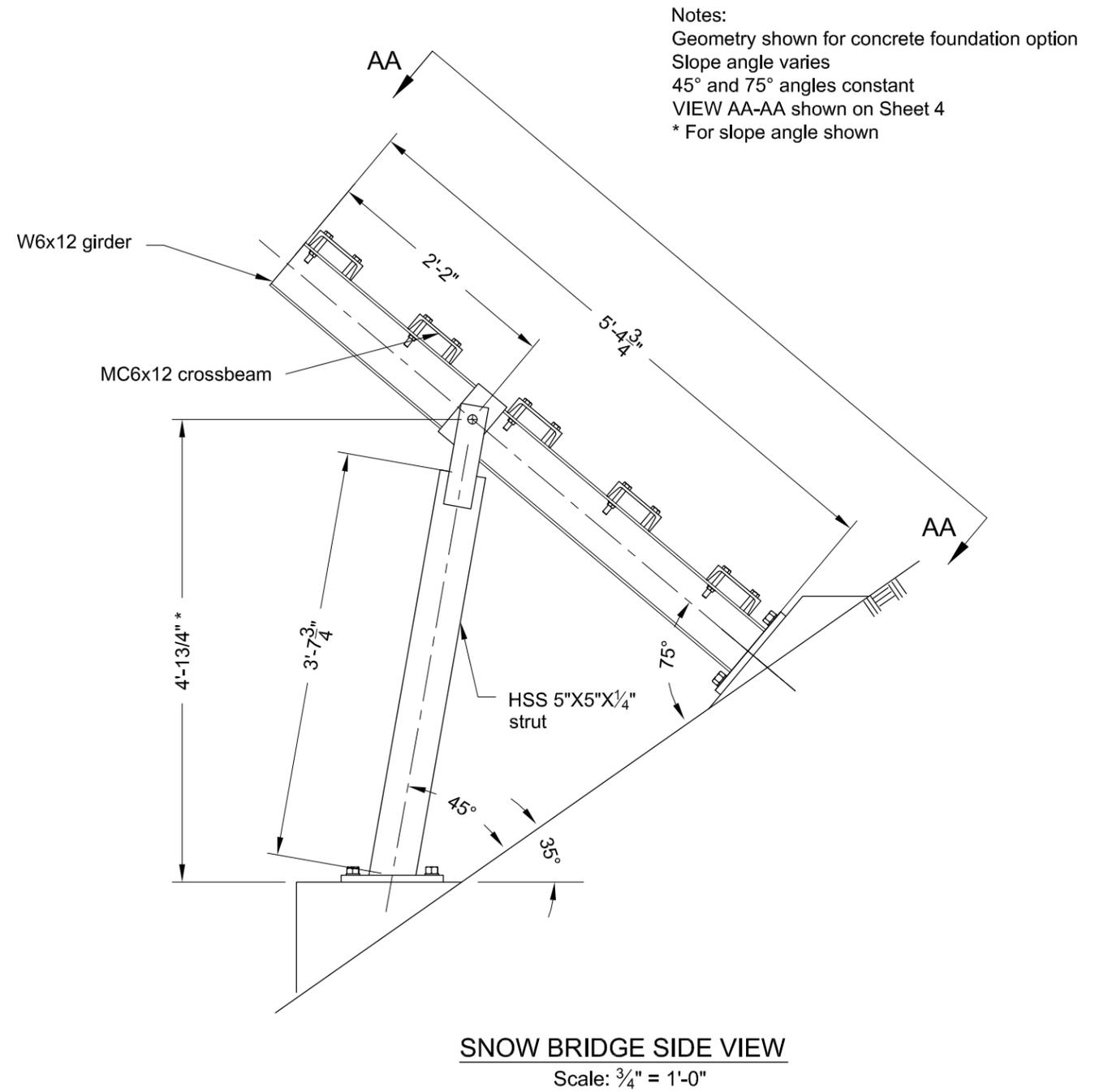


**SNOW BRIDGE 3D VIEW**  
No Scale



**SNOW BRIDGE SIDE VIEW**  
Scale: 3/4" = 1'-0"

NOT FOR  
CONSTRUCTION

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WYOMING DEPARTMENT OF  
TRANSPORTATION

SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

SNOW BRIDGE 3D-VIEW AND SIDEVIEW -  
CONCRETE FOUNDATION OPTION

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Provide all materials and perform all work according to the WYDOT Standard Specifications for Road and Bridge Construction

**MATERIALS:**

Deformed reinforcing bar in cast-in-place concrete footings shall be ASTM A615 GR 60

Ground anchor bars shall be ASTM A615 GR 75 with 12 mil 3M epoxy coating

W-shape sections shall be ASTM A992

Channel shape sections shall be ASTM A36

HSS shape sections shall be ASTM A500 GR B

All steel plate shall be ASTM A36

Bolts connecting channel crossbeams to W-shape girders shall be ASTM A325

Bolts at pressure bar adjustable connection shall be ASTM A325

Anchor rods for cast-in-place concrete footings option shall be ASTM F1554 GR 105

**CONSTRUCTION:**

Deformed reinforcing bar in cast-in-place concrete footings shall have 2" concrete cover unless shown otherwise

Units may be installed by lifting the pre-assembled structure and lowering into position onto foundations

Each unit shall be installed on-site in the location determined by the Owner or authorized Owner's representative

The type of foundation (cast-in-place concrete footings or ground anchors only) to be used for each unit will be determined by the Owner or authorized Owner's representative

Bolts at pressure bar adjustable connection are designated slip-critical and shall have the minimum tension per AISC Specification for Structural Steel Buildings (ANSI/AISC 360-05)

All holes for ASTM A193 B7 pins shall be line bored  $\frac{1}{32}$ " larger than pin diameter

NOT FOR  
CONSTRUCTION

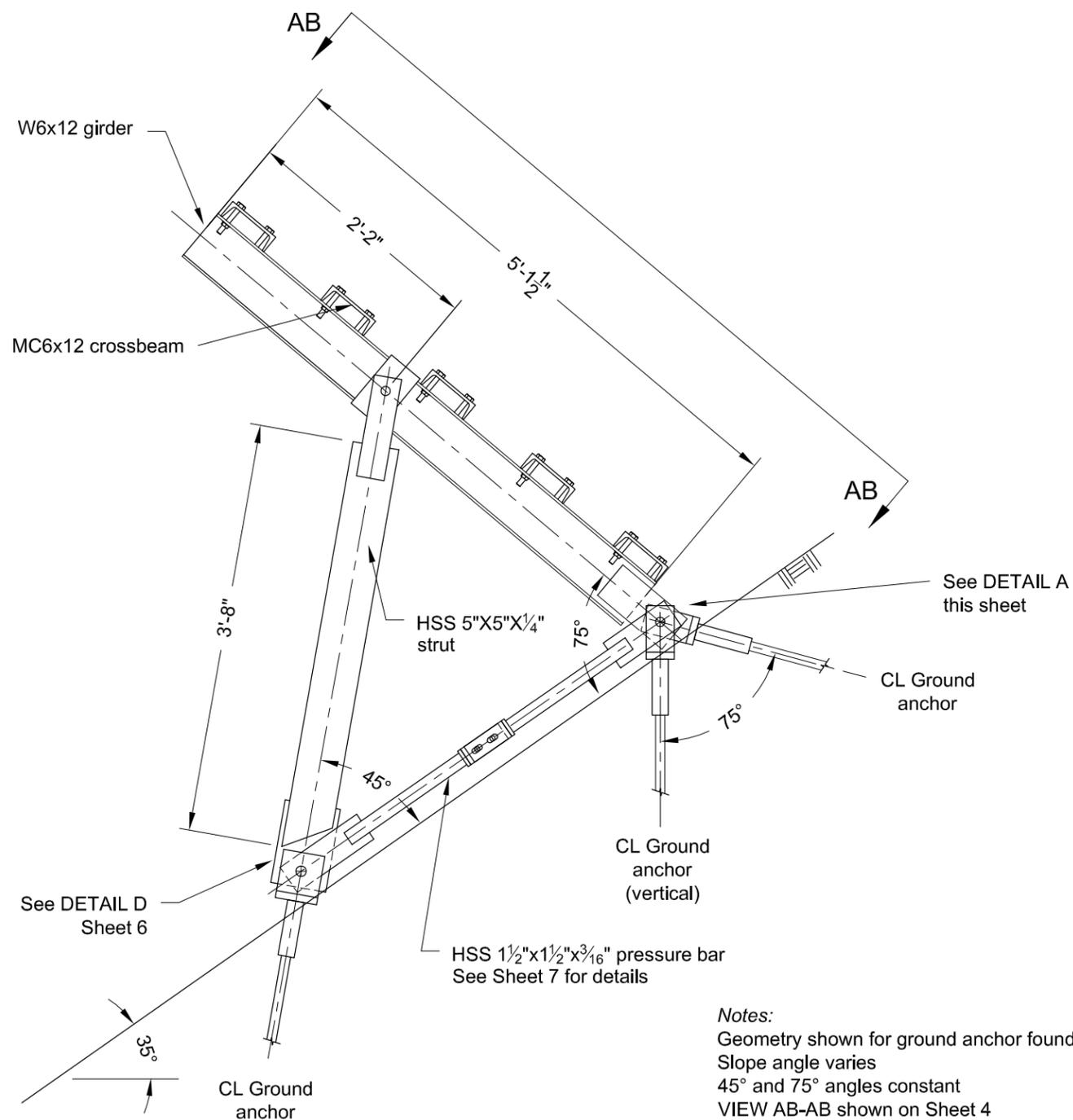
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WYOMING DEPARTMENT OF  
TRANSPORTATION

SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

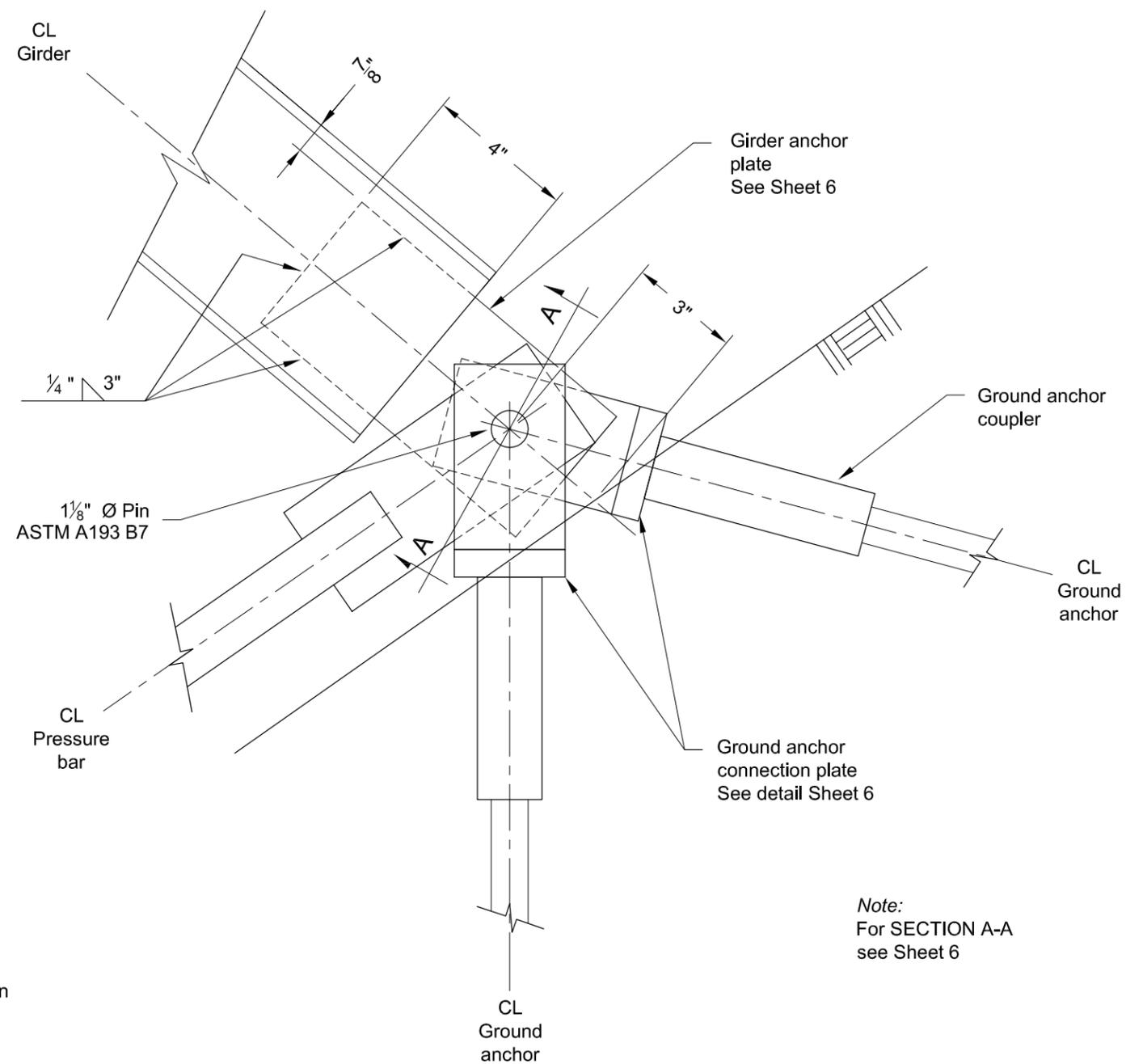
GENERAL NOTES

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**SNOW BRIDGE SIDE VIEW**  
Scale:  $\frac{3}{4}$ " = 1'-0"

Notes:  
Geometry shown for ground anchor foundation option  
Slope angle varies  
45° and 75° angles constant  
VIEW AB-AB shown on Sheet 4



**DETAIL A**  
Scale: 3" = 1'-0"

Note:  
For SECTION A-A  
see Sheet 6

NOT FOR  
CONSTRUCTION

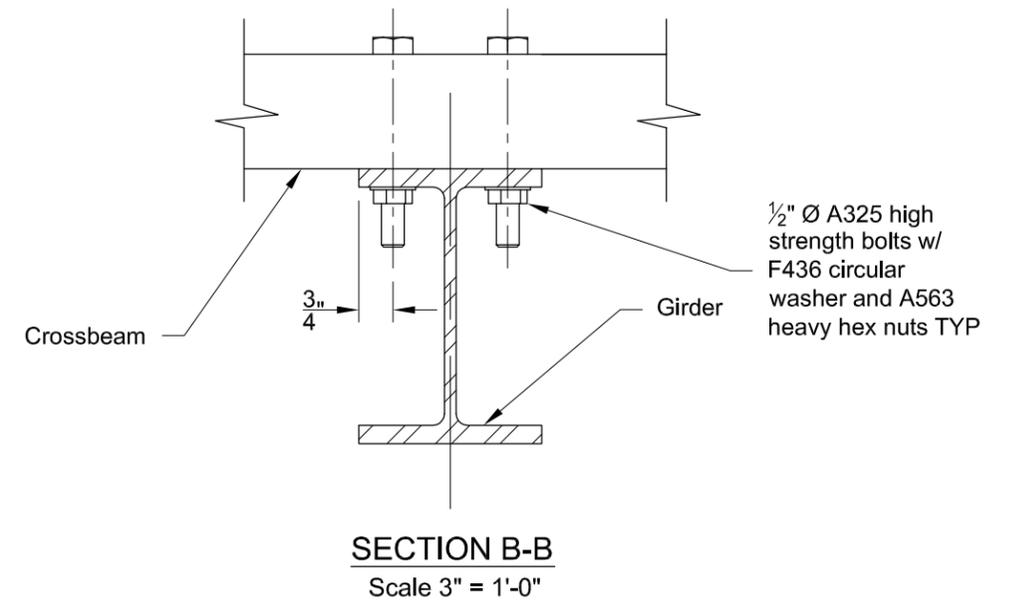
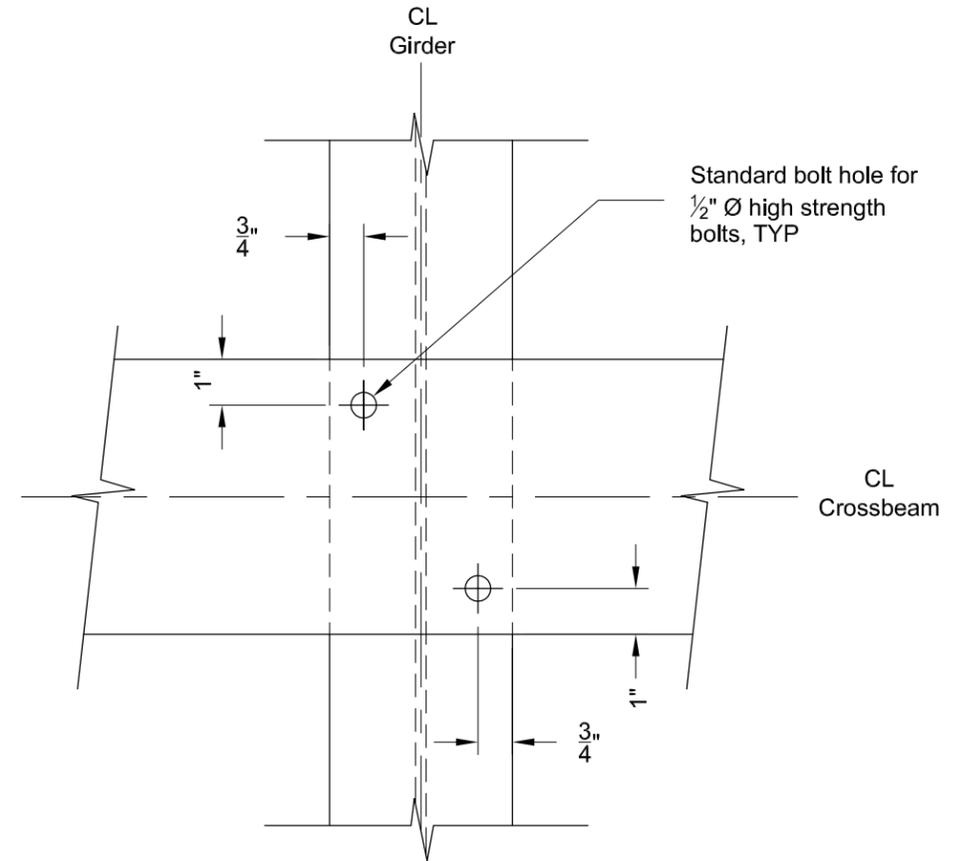
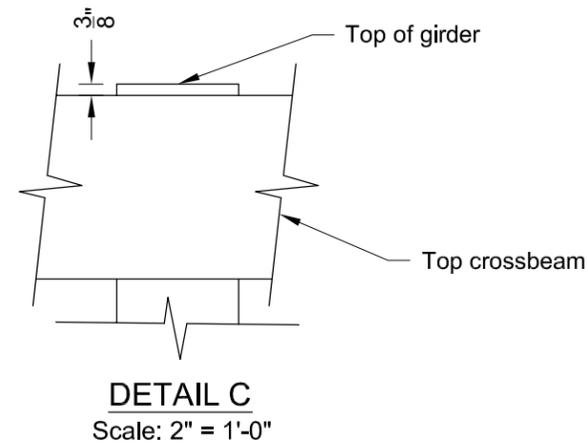
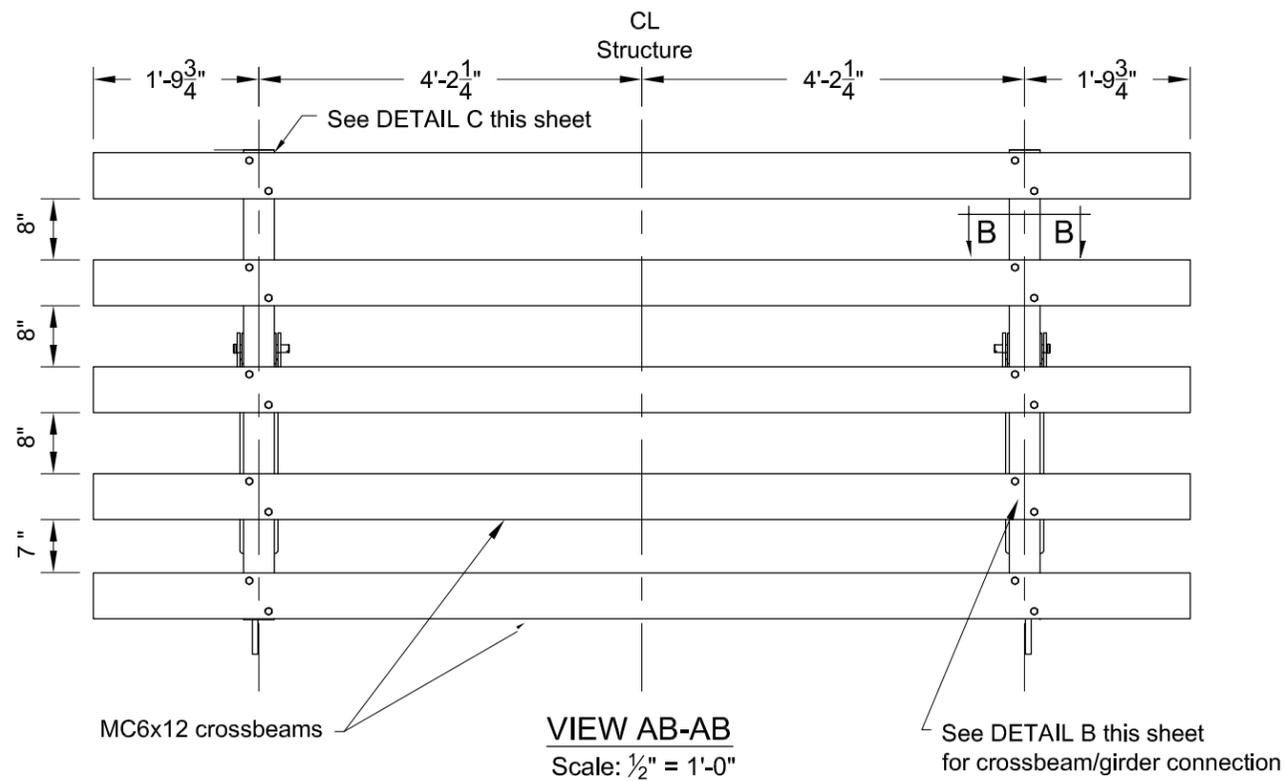
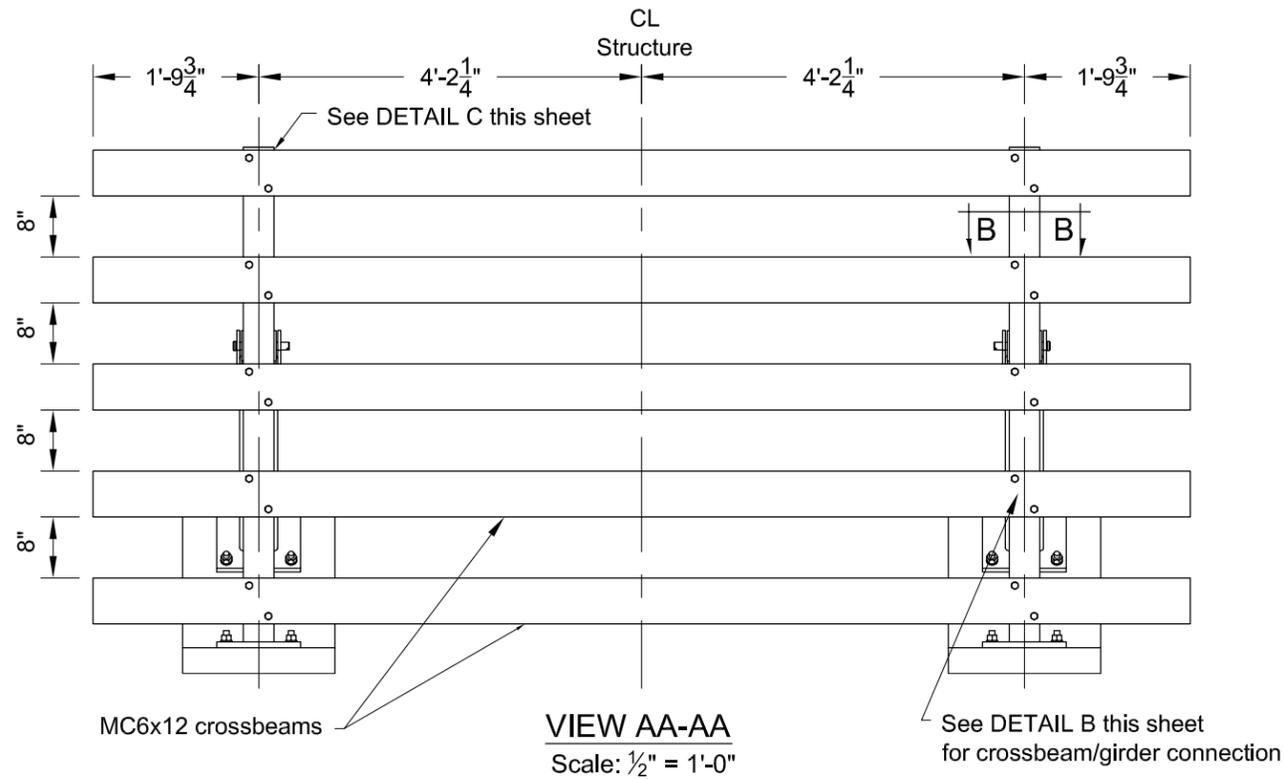
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TRANSPORTATION

SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

SNOW BRIDGE SIDEVIEW AND DETAIL - GROUND  
ANCHORS FOUNDATION OPTION

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NOT FOR  
CONSTRUCTION

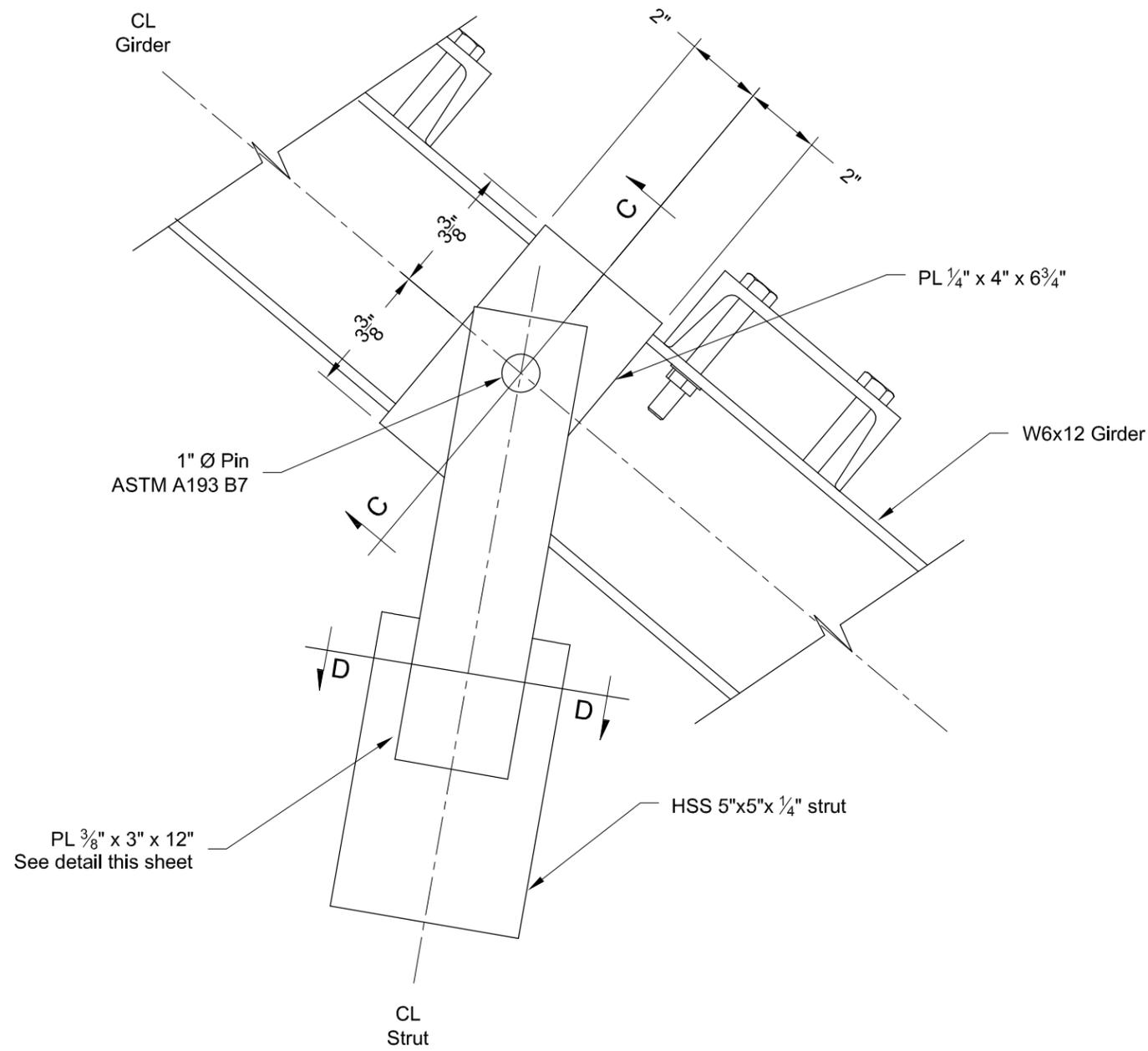
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WYOMING DEPARTMENT OF  
TRANSPORTATION

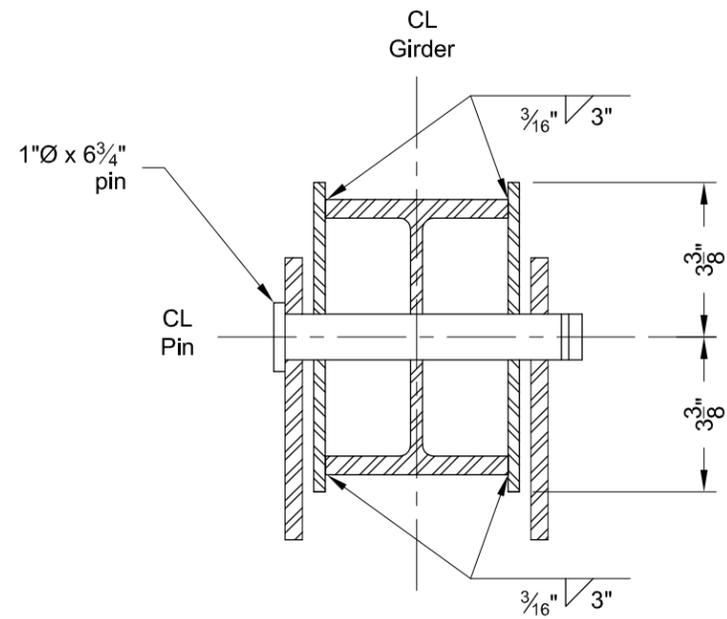
SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

CROSSBEAM LAYOUT AND  
CONNECTION DETAILS

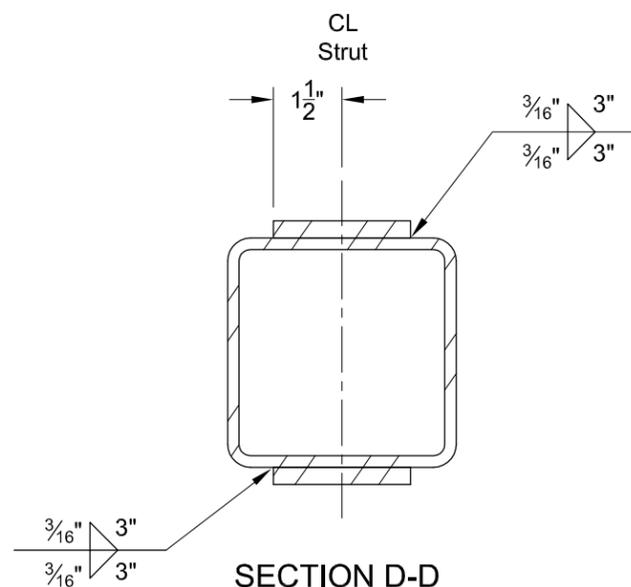
SHEET  
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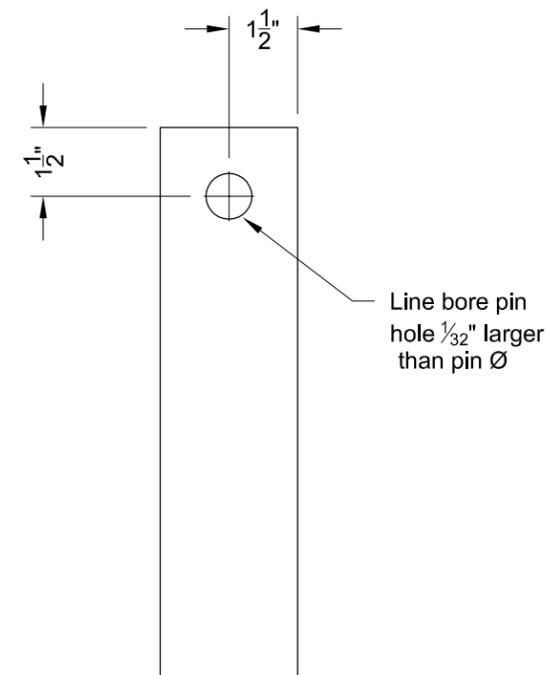
**STRUT-TO-GIRDER  
CONNECTION DETAIL**  
Scale: 3" = 1'-0"



**SECTION C-C**  
Scale 3" = 1'-0"



**SECTION D-D**  
Scale 3" = 1'-0"



**PL  $\frac{3}{8}$ "x3"x12" DETAIL**  
Scale 3" = 1'-0"

NOT FOR  
CONSTRUCTION

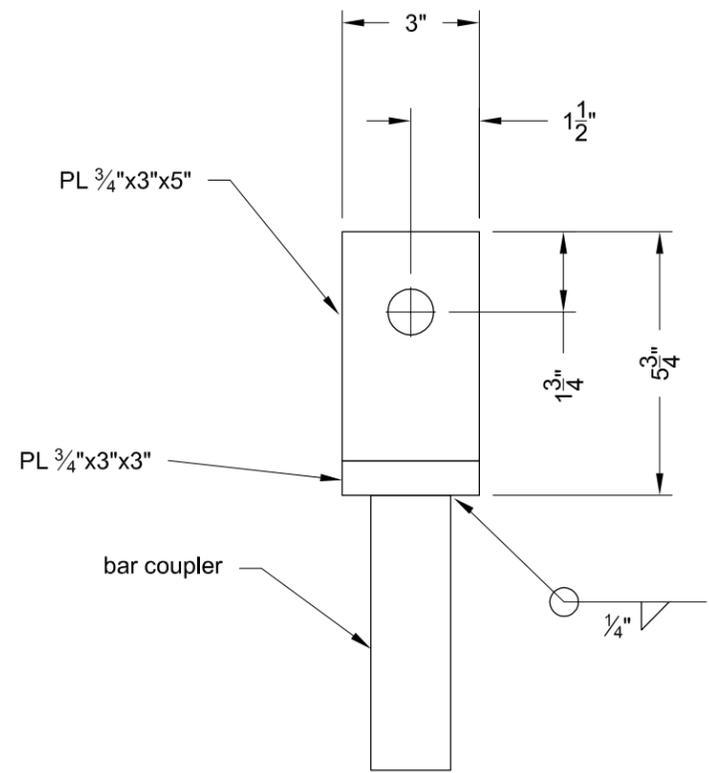
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WYOMING DEPARTMENT OF  
TRANSPORTATION

SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

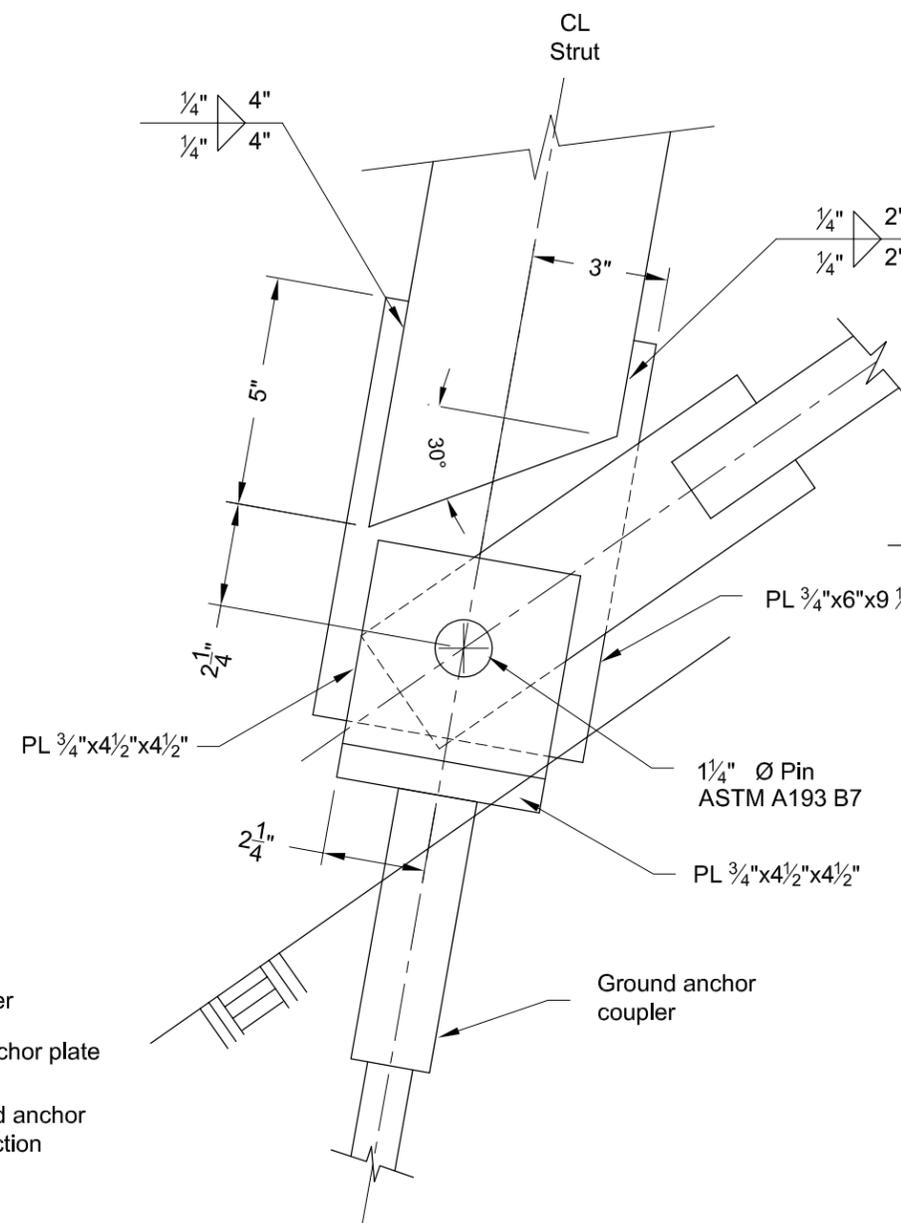
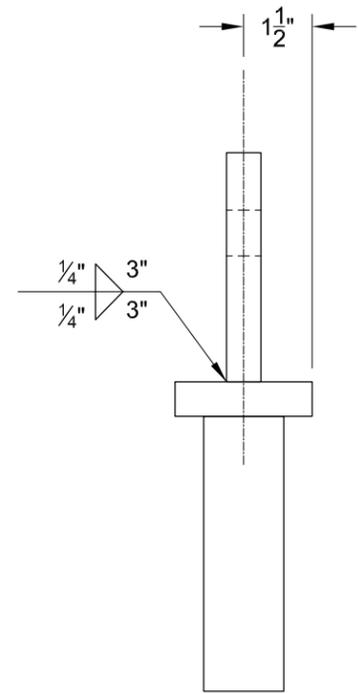
STRUT-TO-GIRDER CONNECTION  
DETAILS

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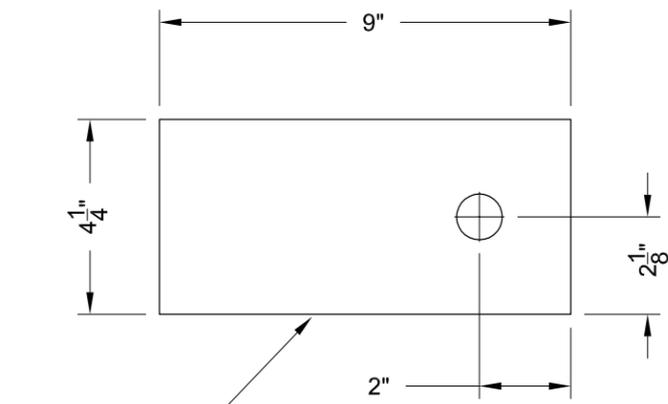
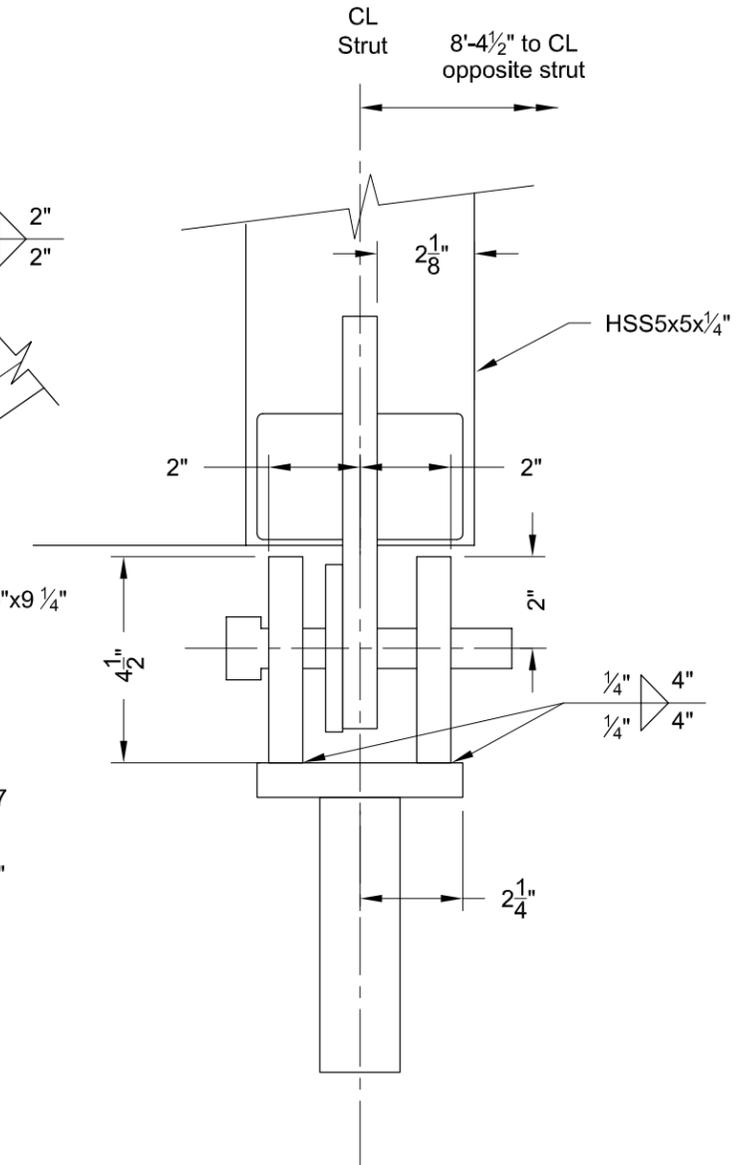
**GROUND ANCHOR CONNECTION PLATE**

Scale 3" = 1'-0"



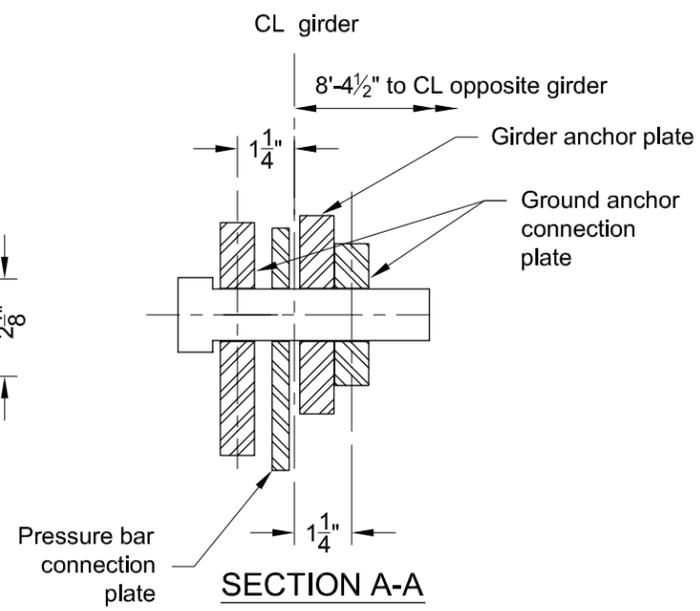
**DETAIL D**

Scale 3" = 1'-0"



**GIRDER ANCHOR PLATE**

Scale 3" = 1'-0"



**SECTION A-A**

Scale 3" = 1'-0"

NOT FOR  
CONSTRUCTION

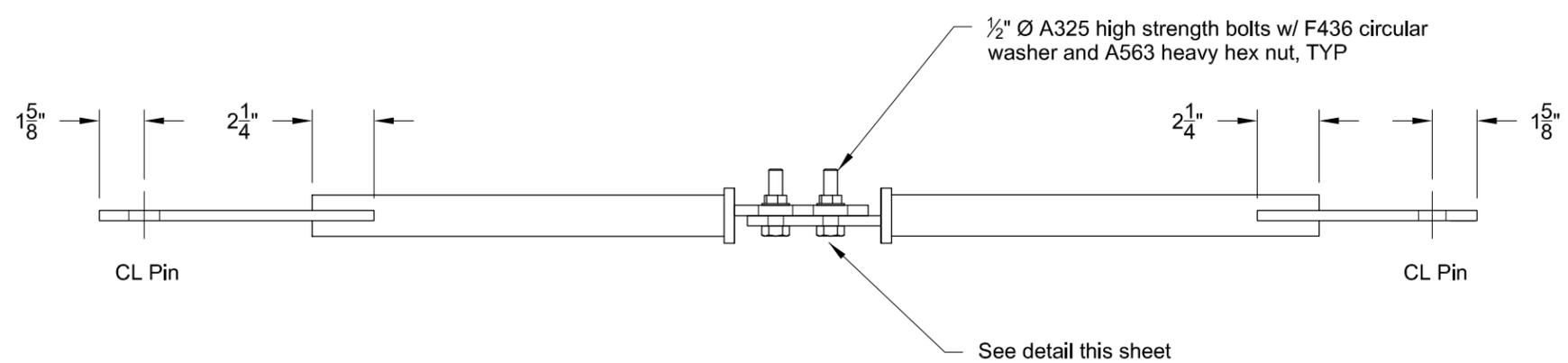
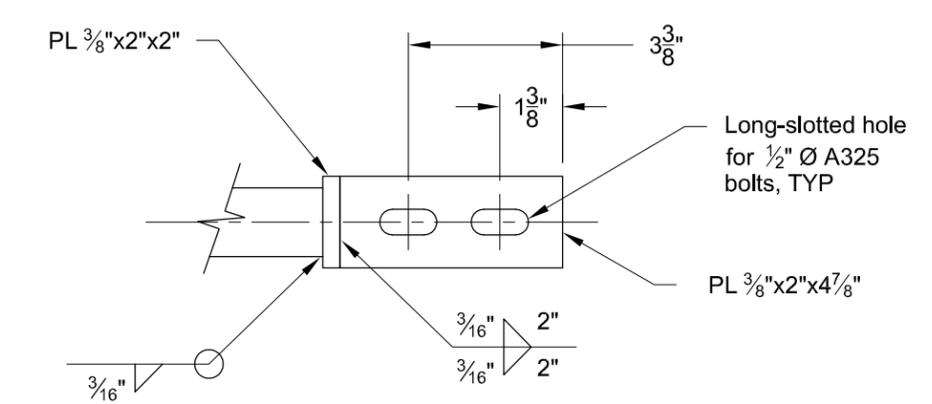
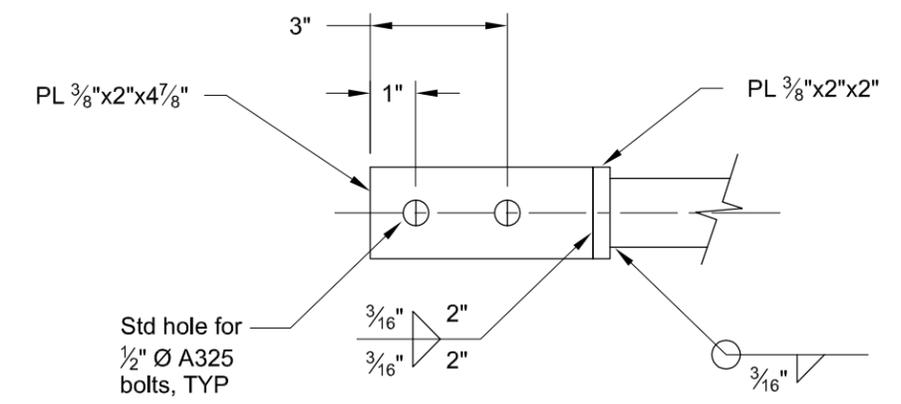
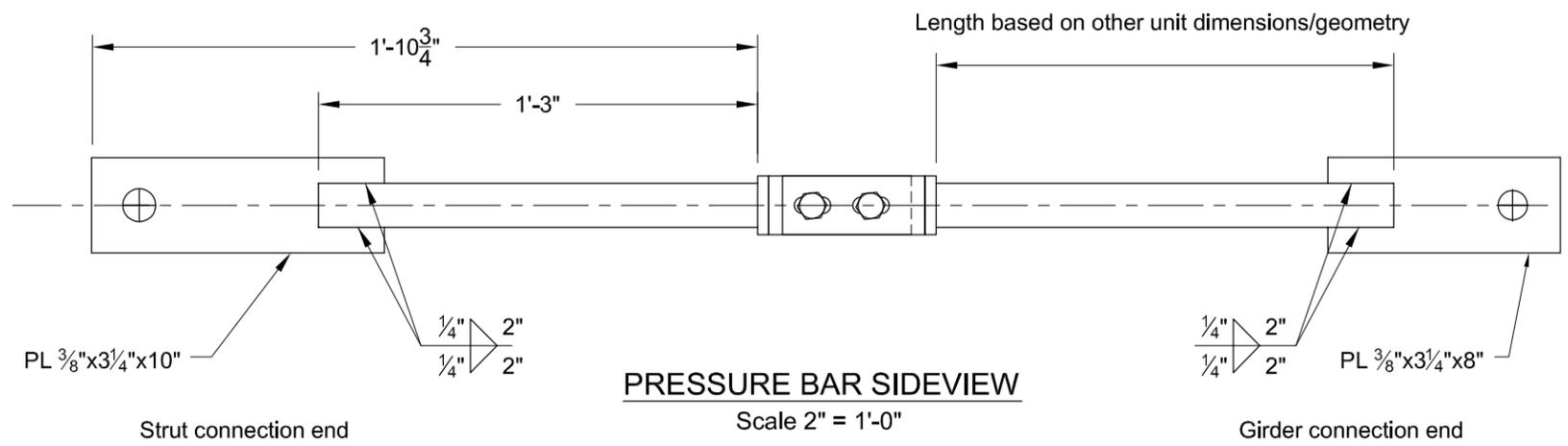
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TRANSPORTATION

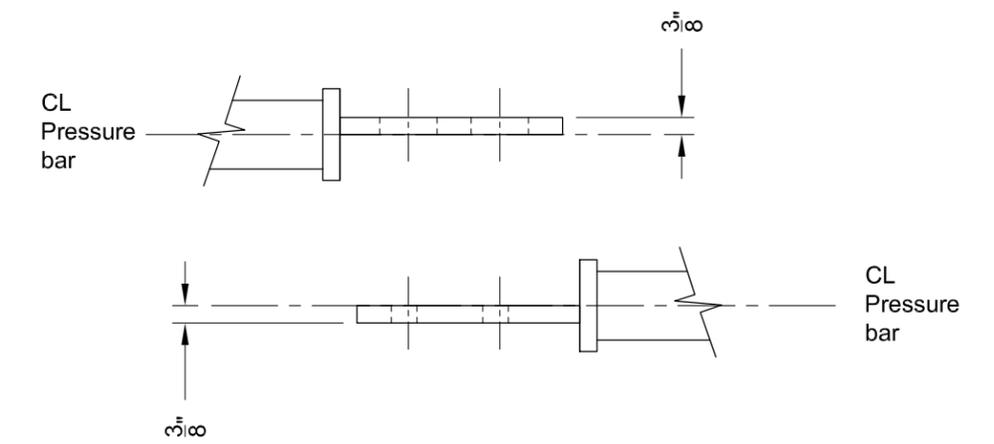
SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

GROUND ANCHORS FOUNDATION OPTION  
DETAILS - 1

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**PRESSURE BAR TOP VIEW**  
Scale 2" = 1'-0"



**PRESSURE BAR ADJUSTABLE CONNECTION DETAILS**  
Scale 3" = 1'-0"

NOT FOR CONSTRUCTION

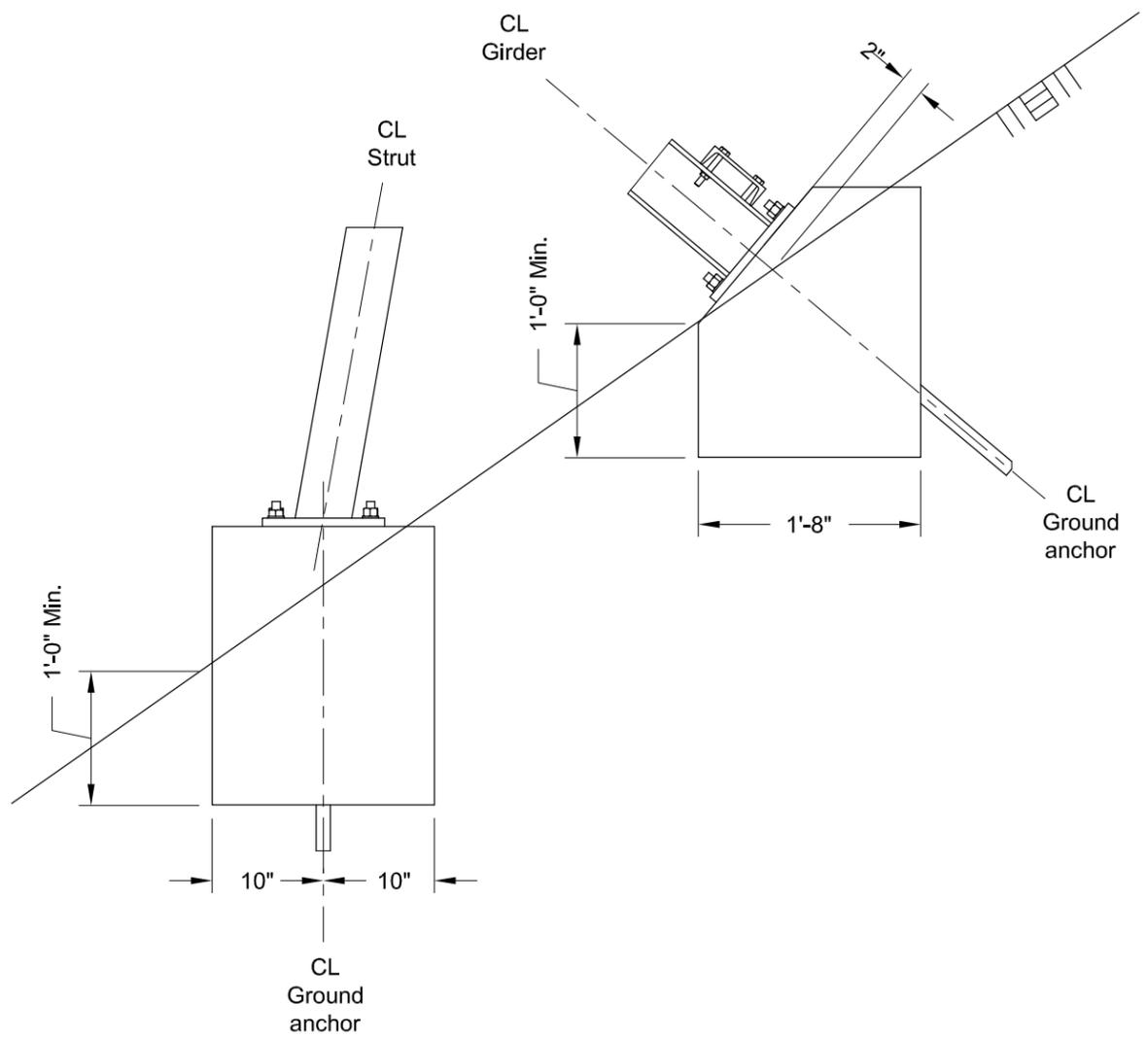
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WYOMING DEPARTMENT OF TRANSPORTATION

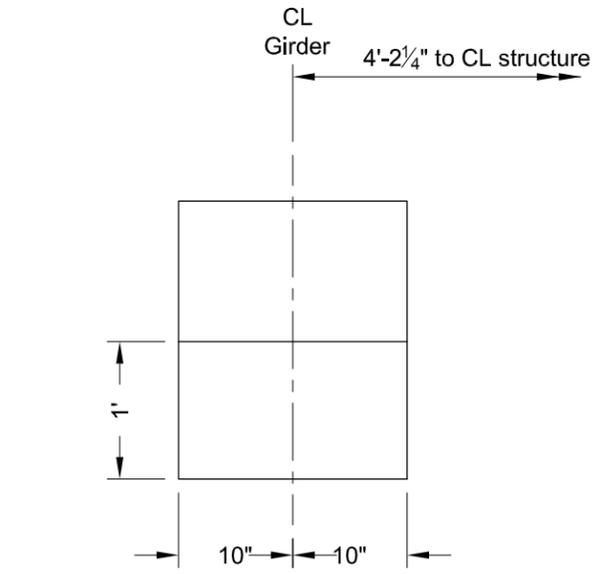
SNOW SUPPORTING STRUCTURES FOR MILEPOST 151 AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

GROUND ANCHORS FOUNDATION OPTION DETAILS - 2

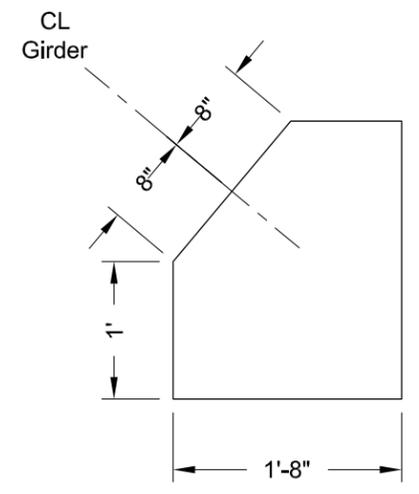
SHEET 7 OF 11



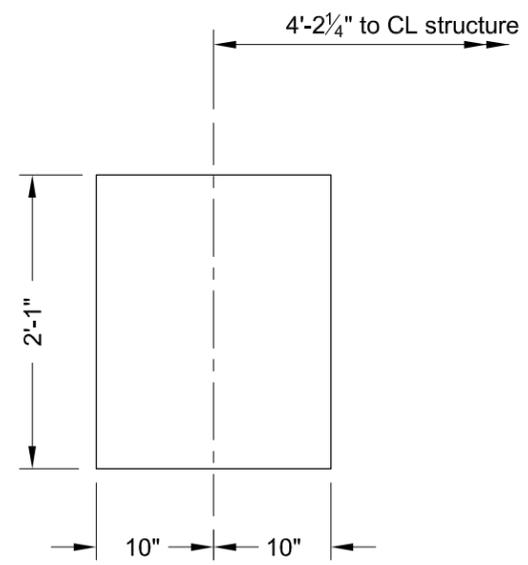
**CONCRETE FOUNDATION LAYOUT**  
Scale: 3/4" = 1'-0"



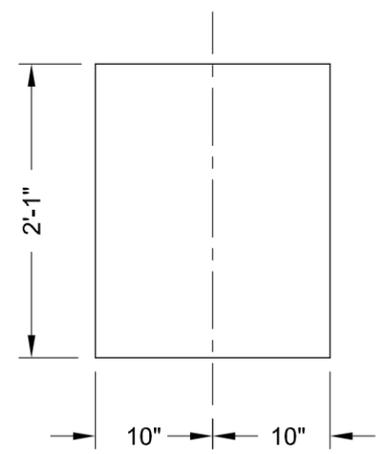
**UPPER FOUNDATION - FRONT VIEW**  
Scale: 3/4" = 1'-0"



**UPPER FOUNDATION - SIDE VIEW**  
Scale: 3/4" = 1'-0"



**LOWER FOUNDATION - FRONT VIEW**  
Scale: 3/4" = 1'-0"



**LOWER FOUNDATION - SIDE VIEW**  
Scale: 3/4" = 1'-0"

NOT FOR  
CONSTRUCTION

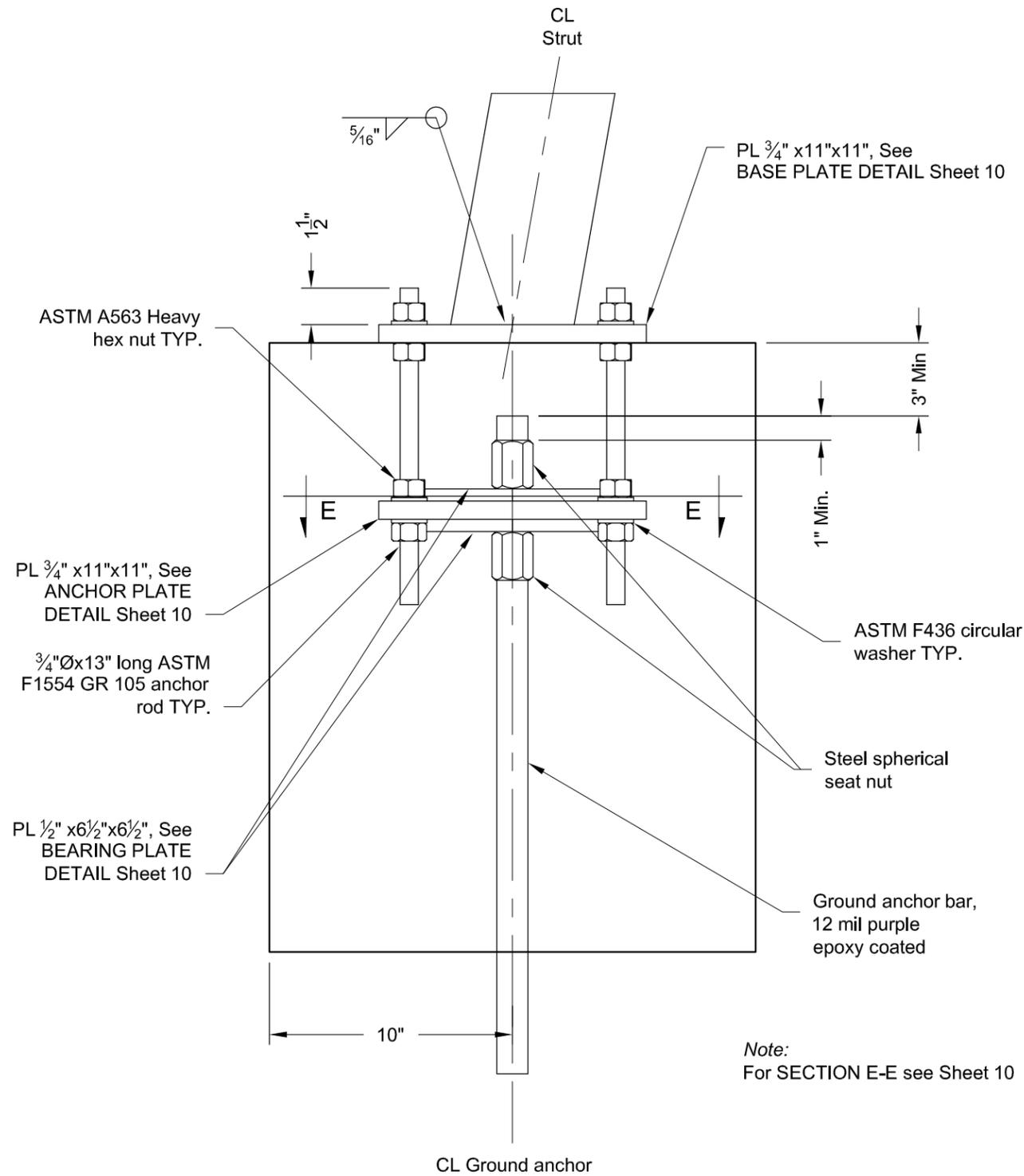
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TRANSPORTATION

SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

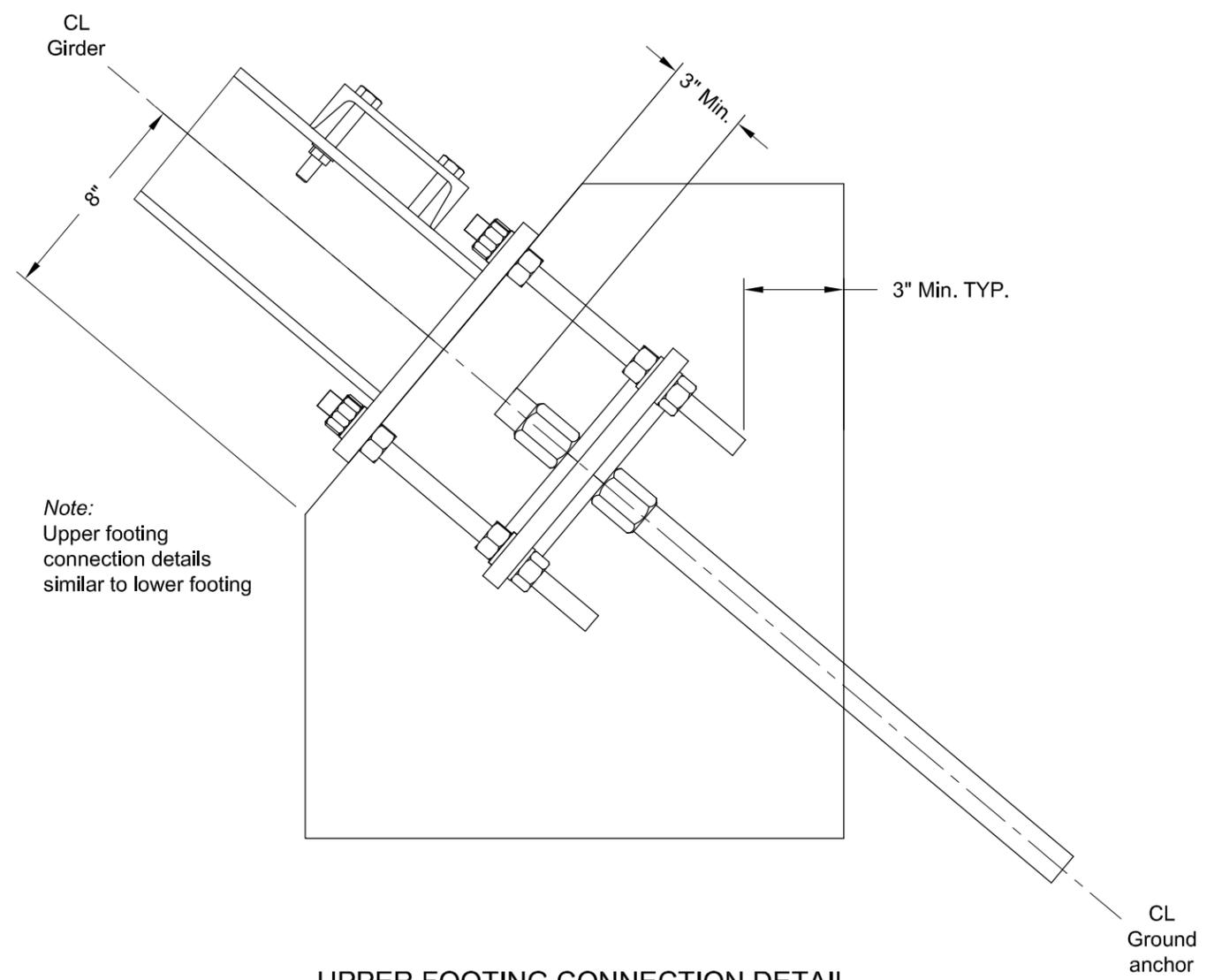
CONCRETE FOUNDATION OPTION  
GEOMETRY

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**LOWER FOOTING CONNECTION DETAIL**  
Scale 2 = 1'-0"

Note:  
For SECTION E-E see Sheet 10



**UPPER FOOTING CONNECTION DETAIL**  
Scale 2" = 1'-0"

Note:  
Upper footing  
connection details  
similar to lower footing

NOT FOR  
CONSTRUCTION

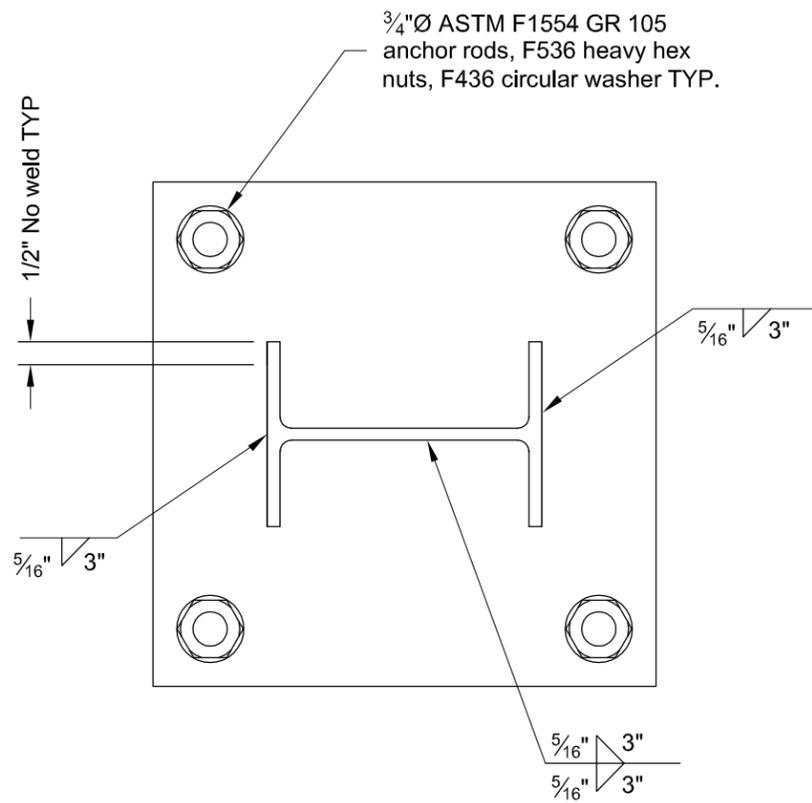
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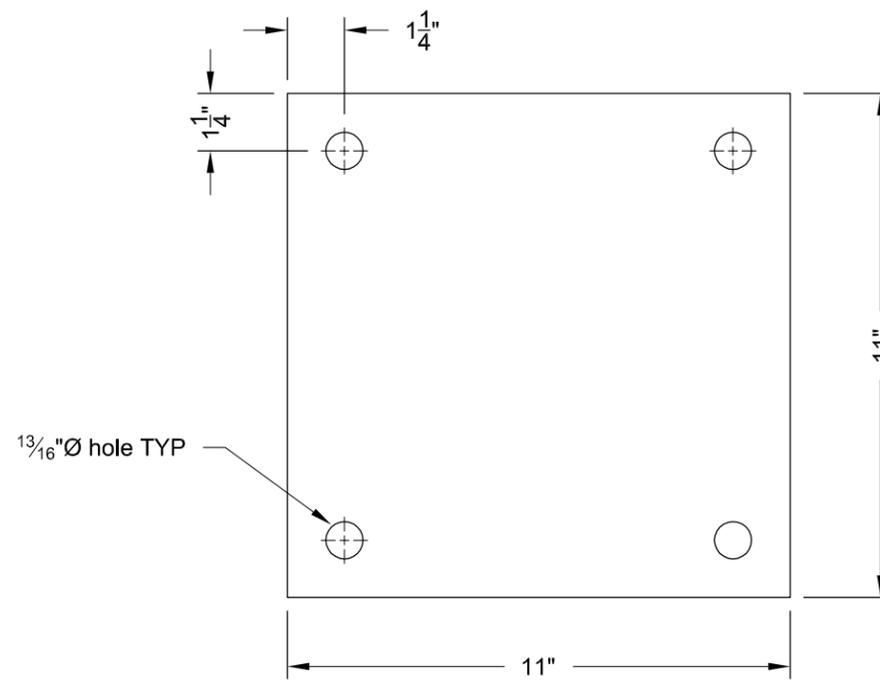
SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

CONCRETE FOUNDATION OPTION -  
CONNECTION DETAILS-1

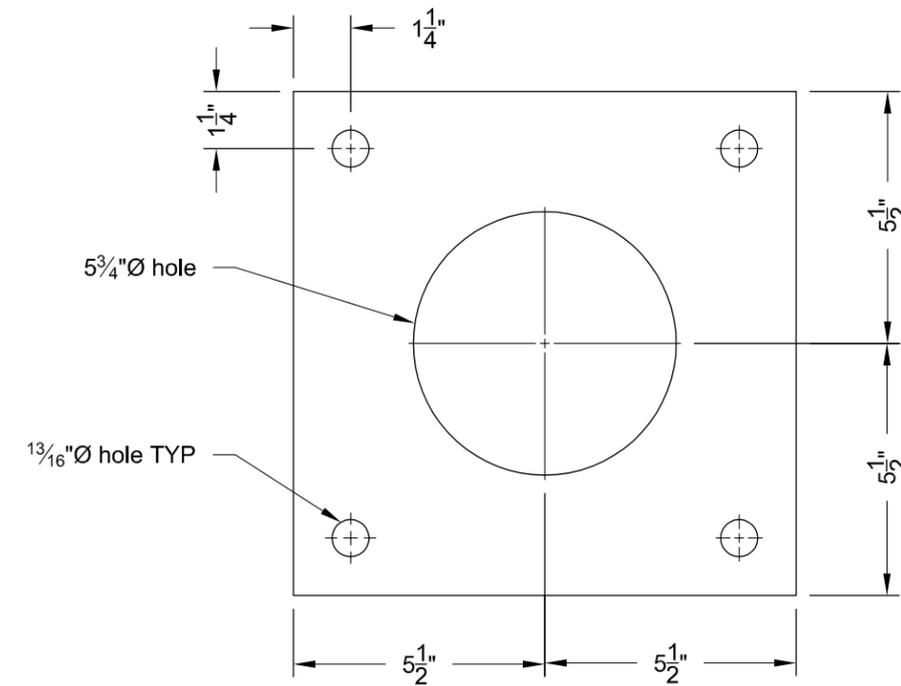
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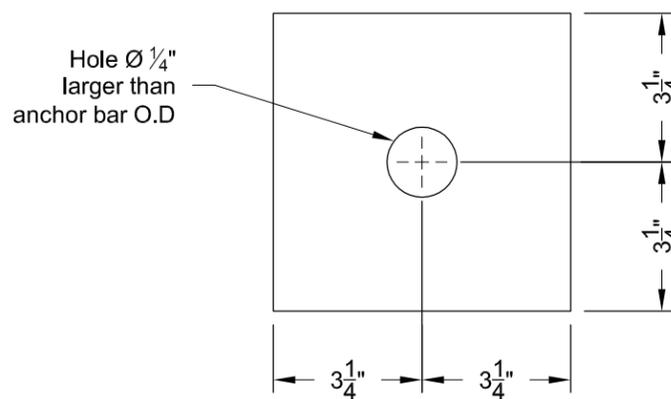
**GIRDER BASE PLATE CONNECTION DETAIL**  
Scale 3" = 1'-0"



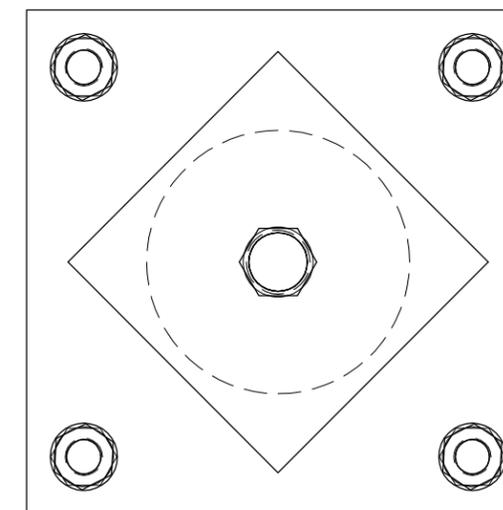
**BASE PLATE DETAIL**  
Scale 3" = 1'-0"



**ANCHOR PLATE DETAIL**  
Scale 3" = 1'-0"



**BEARING PLATE DETAIL**  
Scale 3" = 1'-0"



**SECTION E-E**  
Scale 3" = 1'-0"

NOT FOR  
CONSTRUCTION

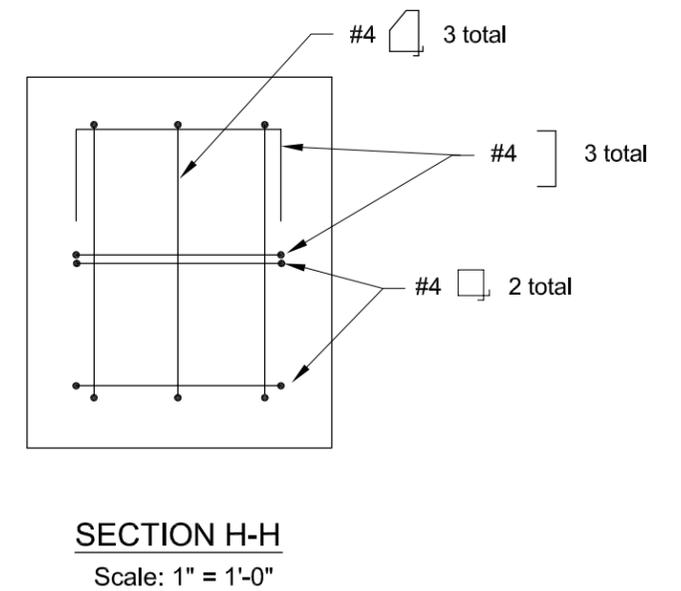
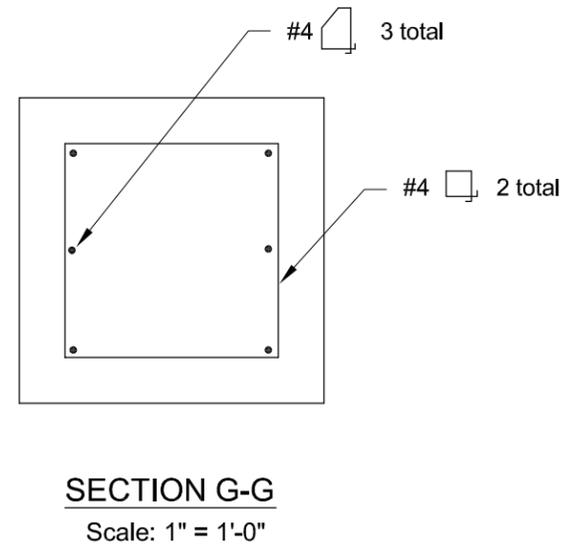
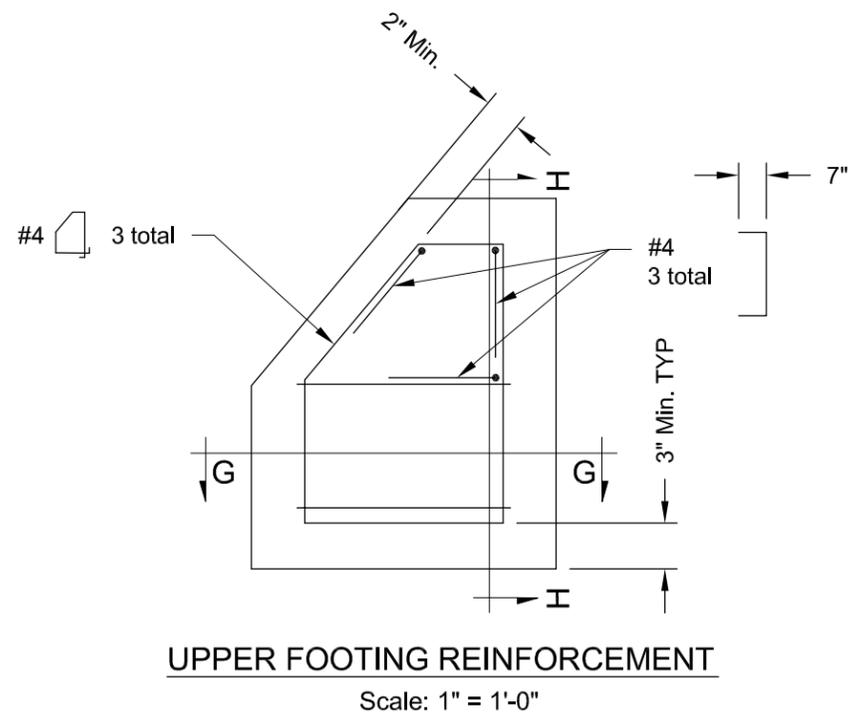
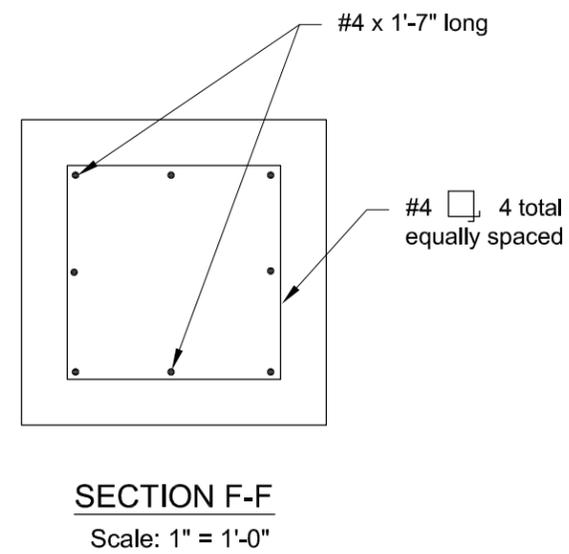
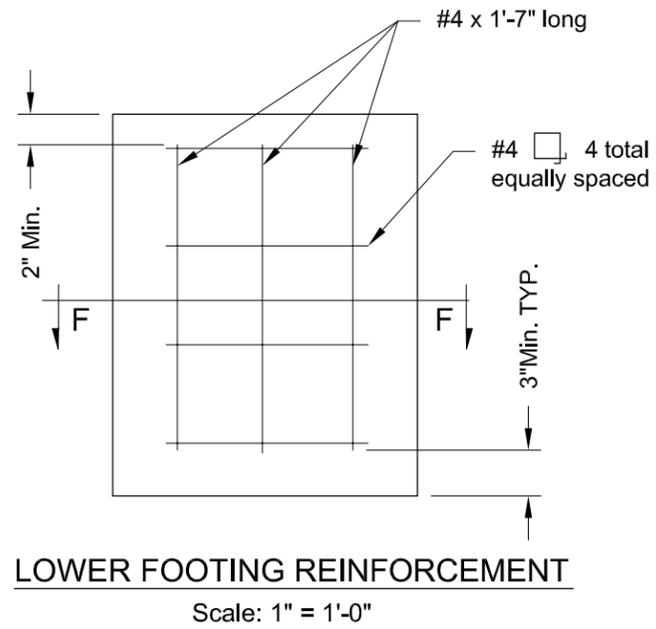
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SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

CONCRETE FOUNDATION OPTION -  
CONNECTION DETAILS-2

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NOT FOR  
CONSTRUCTION

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SNOW SUPPORTING STRUCTURES FOR MILEPOST 151  
AVALANCHE, HIGHWAY US 89/191, JACKSON, WYOMING

CONCRETE FOUNDATION  
REINFORCEMENT DETAILS

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OF  
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