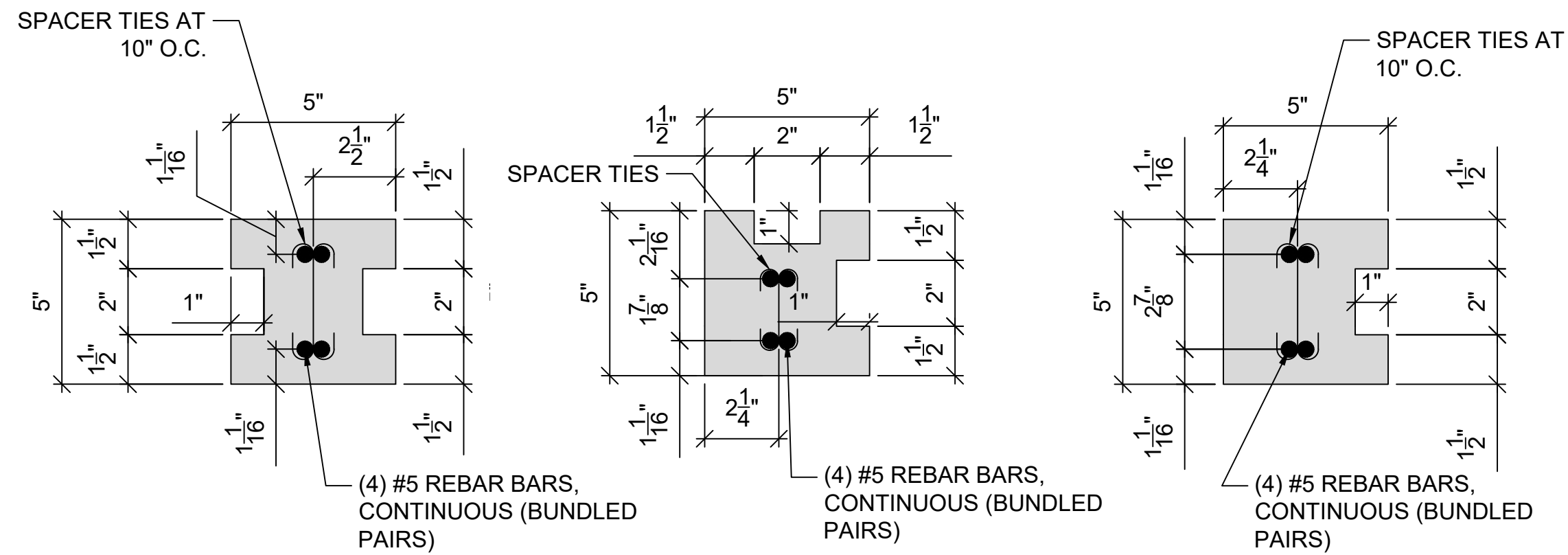


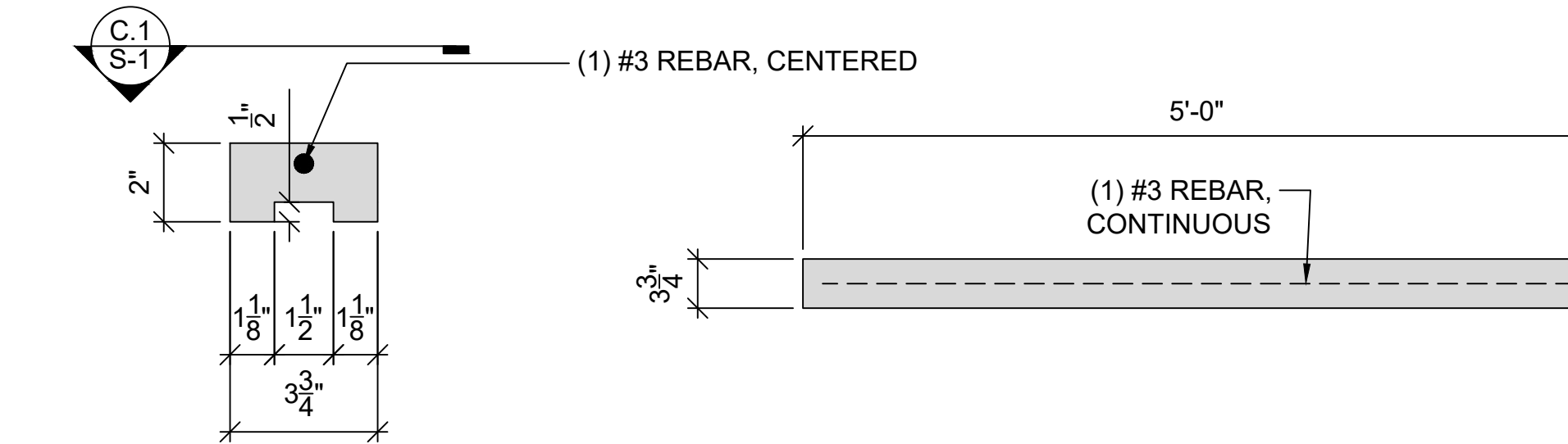
### A - FENCE SECTION

SCALE 1/2" = 1'-0"



### B - POST SECTIONS

SCALE 3" = 1'-0"

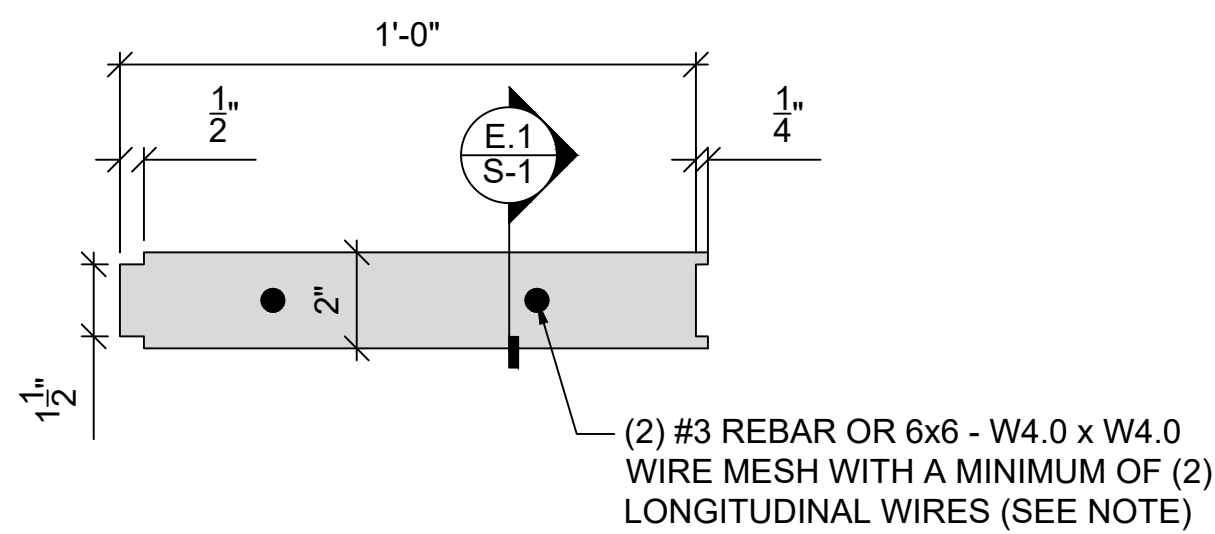


### C - PANEL CAP

SCALE 3" = 1'-0"

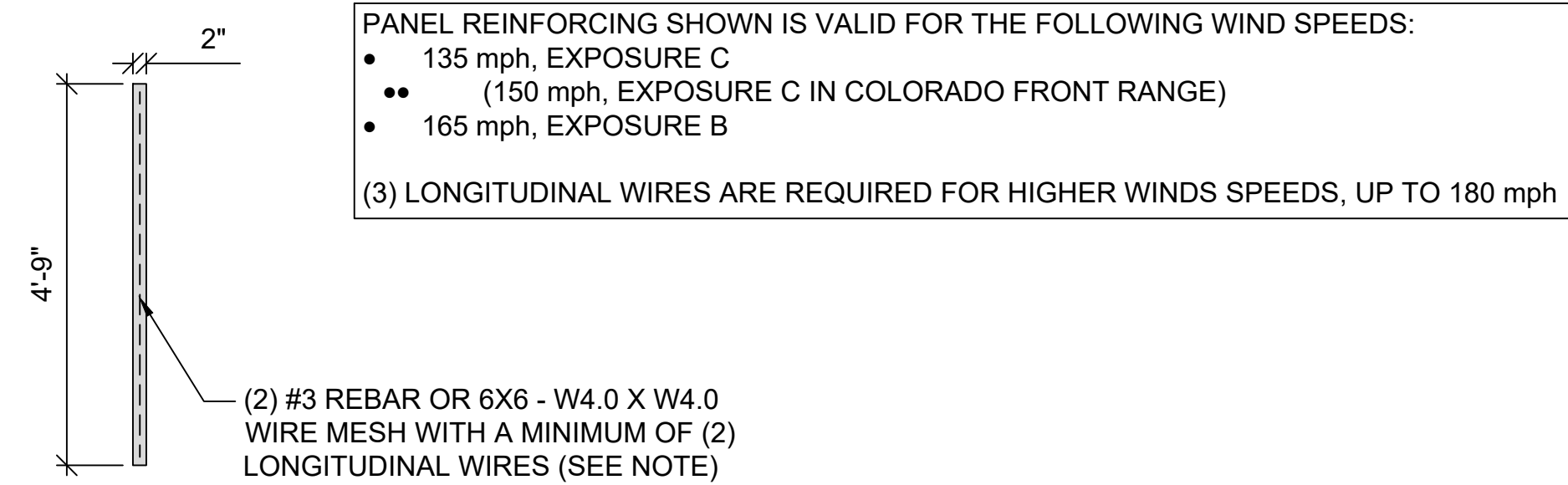
### C.1 - PANEL CAP REINFORCING

SCALE 1" = 1'-0"



### E - WALL PANEL SECTION

SCALE 3" = 1'-0"



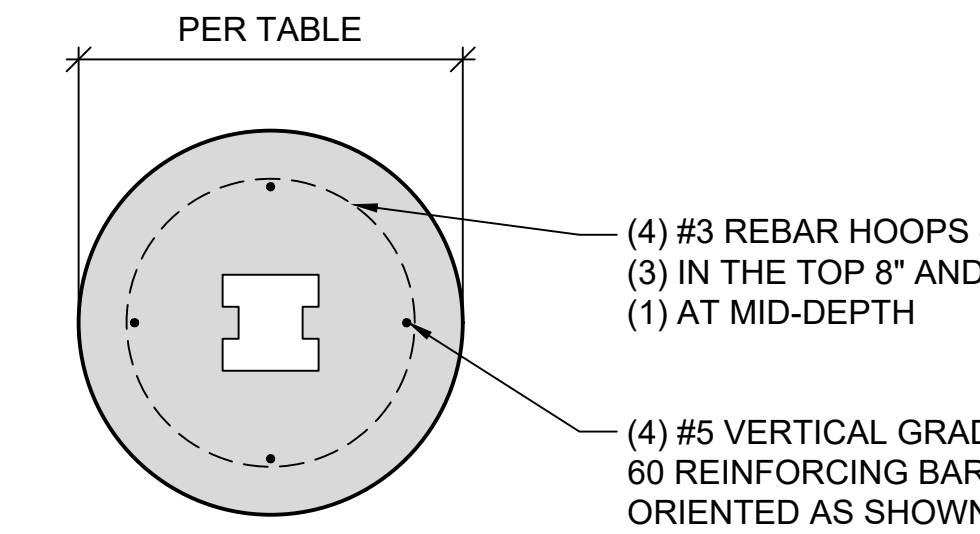
### E.1 - WALL PANEL SECTION

SCALE 1/2" = 1'-0"

PANEL REINFORCING SHOWN IS VALID FOR THE FOLLOWING WIND SPEEDS:

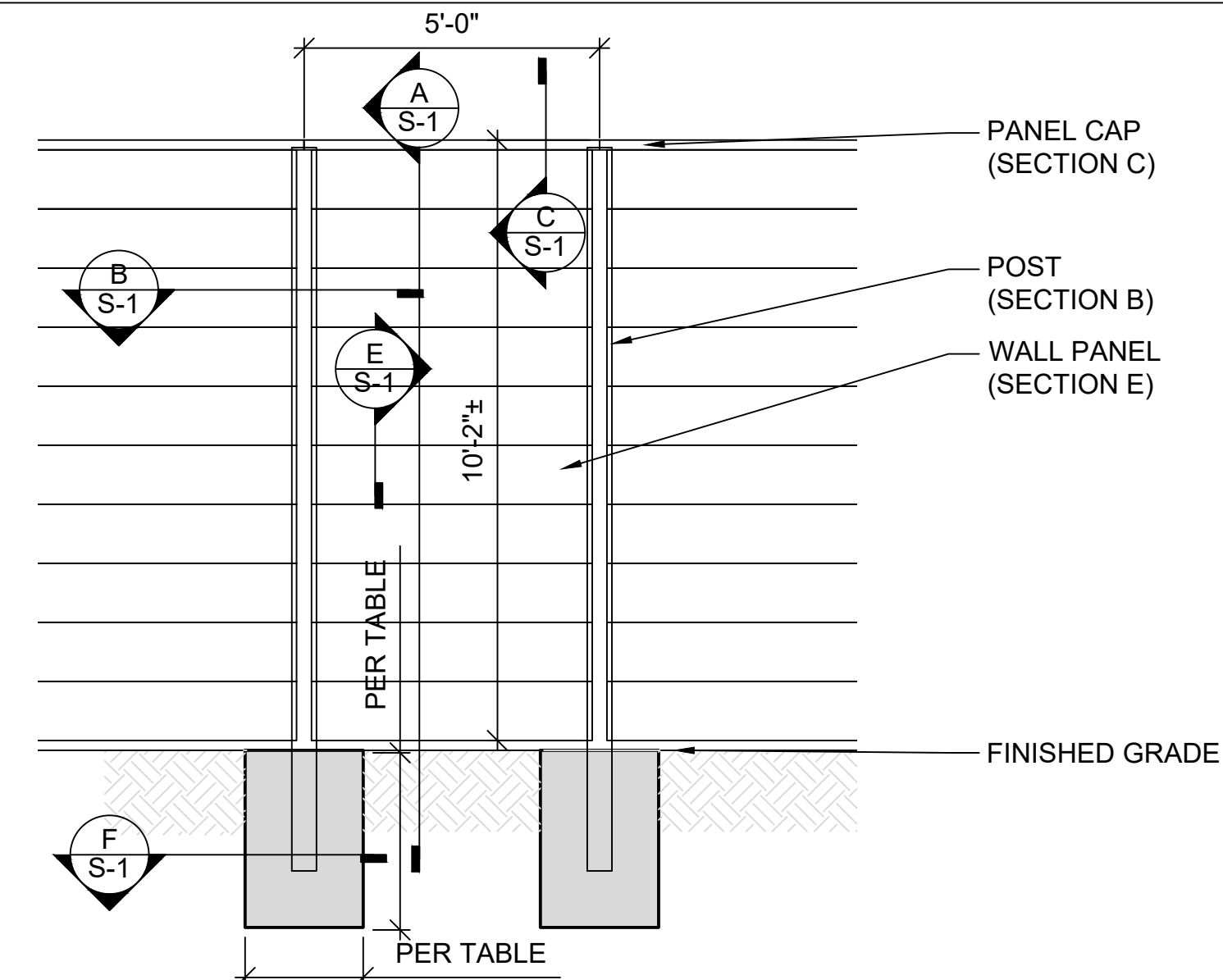
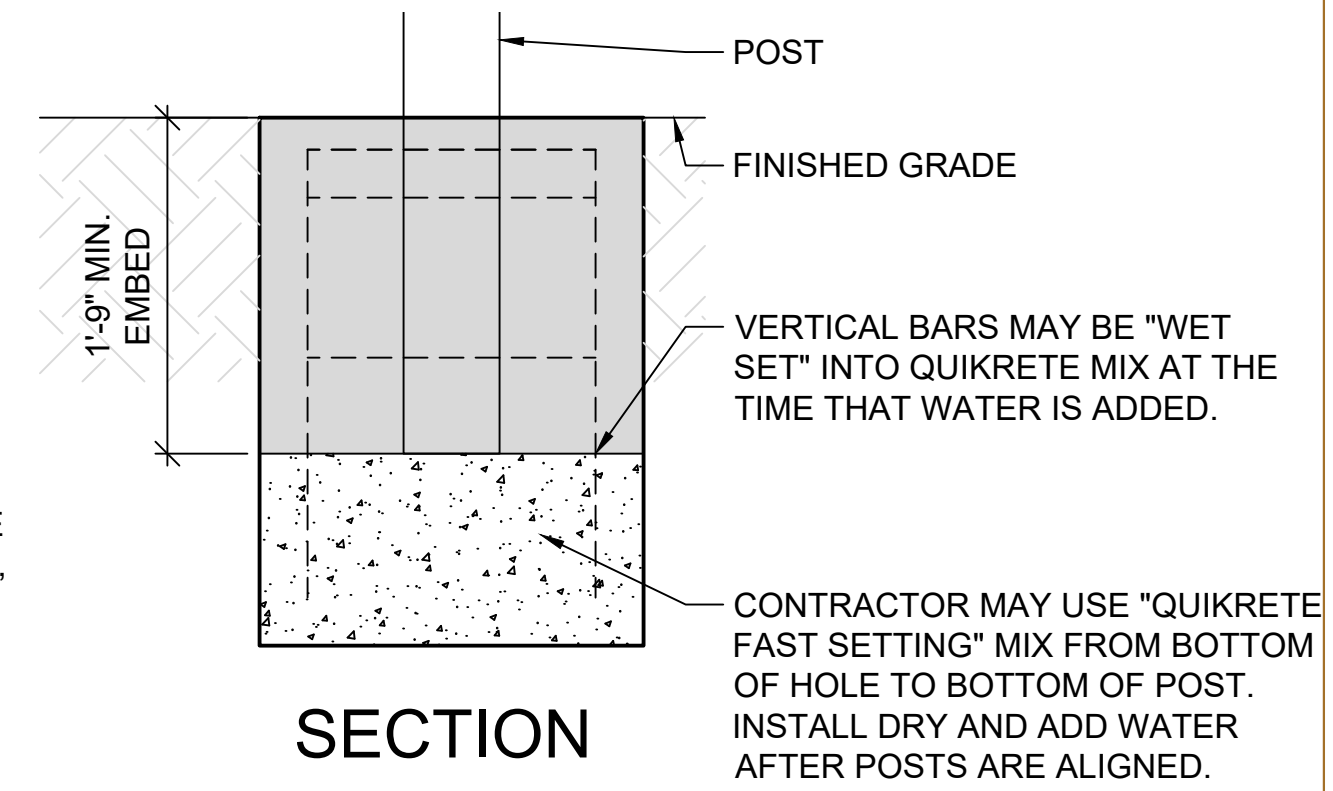
- 135 mph, EXPOSURE C
- 150 mph, EXPOSURE C IN COLORADO FRONT RANGE
- 165 mph, EXPOSURE B

(3) LONGITUDINAL WIRES ARE REQUIRED FOR HIGHER WINDS SPEEDS, UP TO 180 mph



### F - POST FOUNDATION PIER

SCALE 1" = 1'-0"



### FENCE FRONT ELEVATION

SCALE 3/8" = 1'-0"

Pier Sizes <sup>1</sup> Based on Wind & Foundation Soils						
Wind Speed	Gravel <sup>2</sup>		Sand <sup>3</sup>		Clay <sup>4</sup>	
	Diameter (inches)	Depth (feet)	Diameter (inches)	Depth (feet)	Diameter (inches)	Depth (feet)
95	18	4.5	18	5	24	5
100	18	4.5	18	5	24	5
105	18	4.5	18	5	24	5
110	18	4.5	18	5	24	5.5
115	18	4.5	18	5.5	24	5.5
120	18	5	18	5.5	24	5.5
125	18	5	18	5.5	24	6
130	18	5	18	6	24	6
135	18	5.5	18	6	24	6
140	18	5.5	18	6	30	6
145	18	5.5	24	6	30	6

Values not provided require site specific design

Notes:  
 1 - Per IBC section 1806.3.4, an allowable increase in soil capacity has been added  
 2 - Gravel includes sandy gravel and gravel  
 3 - Sand includes silty sand, clayey sand, silty gravel, or clayey gravel  
 4 - Clay includes sandy clay, silty clay, clayey silt, silt, and sandy silt

Pier Sizes <sup>1</sup> Based on Wind & Foundation Soils						
Wind Speed	Gravel <sup>2</sup>		Sand <sup>3</sup>		Clay <sup>4</sup>	
	Diameter (inches)	Depth (feet)	Diameter (inches)	Depth (feet)	Diameter (inches)	Depth (feet)
95	18	3.5	18	4	18	4.5
100	18	3.5	18	4	18	5
105	18	4	18	4.5	18	5
110	18	4	18	4.5	18	5
115	18	4	18	4.5	18	5.5
120	18	4	18	4.5	18	5.5
125	18	4.5	18	5	18	5.5
130	18	4.5	18	5	24	5.5
135	18	4.5	18	5	24	5.5
140	18	4.5	18	5.5	24	5.5
145	18	5	18	5.5	24	5.5
150	18	5	18	5.5	24	6
155	18	5	18	5.5	24	6
160	18	5	24	5.5	24	6
165	18	5.5	24	5.5	24	6
170	18	5.5	24	5.5	30	6
175	18	5.5	24	5.5	30	6

Values not provided require site specific design

Notes:  
 1 - Per IBC section 1806.3.4, an allowable increase in soil capacity has been added  
 2 - Gravel includes sandy gravel and gravel  
 3 - Sand includes silty sand, clayey sand, silty gravel, or clayey gravel  
 4 - Clay includes sandy clay, silty clay, clayey silt, silt, and sandy silt

### FOUNDATION PIER SIZES

### GENERAL NOTES:

#### DESIGN LOADS:

DESIGN WIND FORCES ARE BASED ON THE COLORADO WIND STUDY, ASCE 7, AND THE 2021 INTERNATIONAL BUILDING CODE.

IF A PIER SIZE IS NOT LISTED, THAN THE FENCE POSTS AND PIERS ALL NEED SPECIAL DESIGNS.

#### SOILS:

1. FOOTING SIZES ARE BASED ON 2021 INTERNATIONAL BUILDING CODE, PER SECTION 1807.3 AND SOIL CAPACITIES PER TABLE 1806.2.
2. ALL FOOTINGS SHOULD BEAR IN UNDISTURBED NATIVE SOILS OR STRUCTURAL FILL THAT HAS BEEN APPROVED BY A GEOTECHNICAL ENGINEER.

#### CONCRETE:

1. DESIGN BASED ON ACI 318.
2. DESIGN CONCRETE STRENGTH (f<sub>c</sub>) IS 5000 psi. ALL CONCRETE SHALL BE PRECAST IN A CONTROLLED ENVIRONMENT

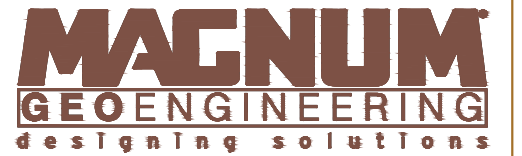
#### REINFORCING:

1. LOCATE REINFORCING IN STRUCTURAL MEMBERS AS SHOWN ON DETAILS.
2. PRIMARY REINFORCING BARS IN POSTS AND RAILS SHALL BE ASTM A615, GRADE 60 STEEL.
3. STEEL REINFORCING USED IN PANELS SHALL BE DEFORMED GRADE 60 STEEL AND SHALL CONFORM TO ASTM A615.
4. MINIMUM CONCRETE COVER IN POSTS AND RAILS SHALL BE 1 INCH. CENTER REINFORCING IN FENCE PANEL SECTIONS.

### WOOD GRAINED PRECAST PRIVACY FENCE



SIGNATURE STONE  
 211 30TH STREET  
 GREELEY, CO 80631 CONTACT:  
 JERRY NAVA  
 970-351-0270



MAGNUM GEO-SOLUTIONS, LLC  
 138 E. 4TH STREET, SUITE E  
 LOVELAND, CO 80537  
 970-635-1851  
 800-822-7437  
 WWW.MAGNUMGEO.COM

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NO.	DATE	REVISION

ENGINEER: WGT PROJECT NO: 25-2099-0000  
 PROJECT MGR: WGT ORIGIN DATE: 2025/12/12  
 REVIEWER: MJH SCALE: AS SHOWN

SHEET: S-1

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