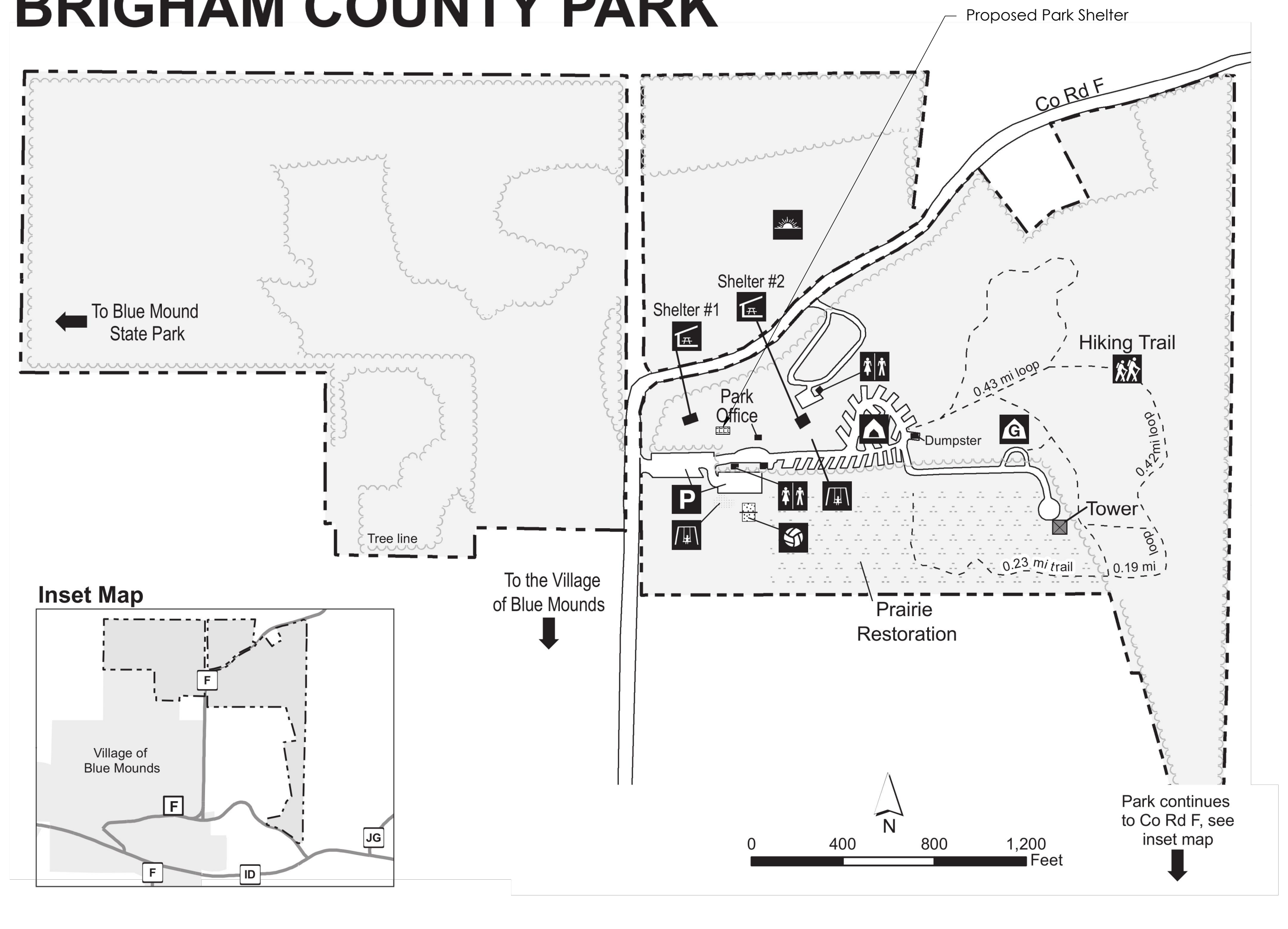


Proposed Park Shelter

**SITE PLAN**  
NOT TO SCALE

# BRIGHAM COUNTY PARK



**PARK MAP**  
SCALE AS SHOWN



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**SITE PLAN**  
**PARK SHELTER - 28' X 57'**  
**Dane County Dept. of Public Works**  
**DANE COUNTY, WI**

REVISIONS	NO.	BY	DATE

SCALE

DRAWN BY: TJM  
DATE: July 2013  
GEC FILE NO. 2-0313-101  
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STRUCTURAL NOTES

PARK SHELTER - 28' X 57'

Dane County Dept. of Public Works

DANE COUNTY, WI

REVISIONS	NO.	BY	DATE

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FULL SIZE SCALE

DRAWN BY	CJK
DATE	MAY 2013
GEC FILE NO.	2-0313-101
SHEET NO.	

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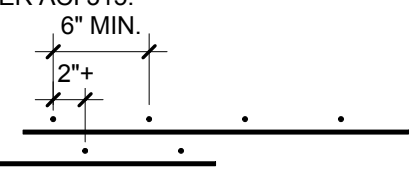
PIER SCHEDULE						
MARK	DIMENSIONS			REINFORCEMENT	TOP OF ELEV	REMARKS
	WIDTH	LENGTH	DEPTH			
P1	24"	24"	60"	4- #5 VERTICAL w/ #3 TIES @ 12" O.C.	+2'	
P2						

NOTE: PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY PIER SIZES WITH METAL BUILDING MFG'S BASE PLATE AND ANCHOR BOLT LAYOUTS

FOOTING SCHEDULE						
MARK	DIMENSIONS			REINFORCEMENT (W)- SPAN WIDTH (L)- SPAN LENGTH	TOP OF ELEV	REMARKS
	WIDTH	LENGTH	DEPTH			
F1	32"	32"	12"	4- #5	-3'	
F2						
F3						
F4						
F5						
F6						
F7						
F8						
F9						
F10						
F11						
F12						

CONCRETE REINFORCEMENT NOTES:

- REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (MOST CURRENTLY ADOPTED EDITION).
- PROVIDE MINIMUM COVER PER ACI 318, 7.7.1 ALSO SEE MILD STEEL PROTECTION NOTES.
- WIRE SPACERS, CHAIRS, TIES, ETC. FOR SUPPORT OF STEEL REINFORCING SHALL BE PROVIDED BY THE CONCRETE CONTRACTOR TO ENSURE REINFORCING IS PLACED AND MAINTAINED IN THE PROPER POSITION DURING CONCRETE PLACEMENT.
- ALL HOOKS IN STEEL REINFORCING SHALL BE ACI STANDARD HOOKS.
- TERMINATE NON-CONTINUOUS STEEL REINFORCING WITH AN ACI STANDARD HOOK IF REQUIRED EMBEDMENT SHOWN ON DRAWINGS CANNOT BE OBTAINED.
- ALL LAPS SHALL BE CLASS "B" PER ACI 318 ON THE DESIGN DRAWINGS, OR UNLESS THE DETAILER TAKES SPECIAL CARE TO PROVIDE STAGGERED LAPS. USE TO BAR LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 12" DEEP.
- STEEL REINFORCING SPLICES OF ADJACENT BARS SHALL BE STAGGERED SUCH THAT SPLICES ARE 4 FEET APART, MINIMUM.
- CORNER BARS WITH CLASS "B" LAP PER ACI318 SHALL BE PROVIDED AT ALL WALL CORNERS AND AND INTERSECTIONS.
- WELDED WIRE REINFORCING SHALL BE IN FLAT SHEETS ONLY AND SHALL BE LAPPED AND/OR ANCHORED TO DEVELOP Fy PER ACI 315.
- WELDING OF STEEL REINFORCEMENT IS NOT PERMITTED, UNLESS APPROVED BY ENGINEER.



MILD REINFORCING STEEL PROTECTION NOTES:

THE FOLLOWING MINIMUM DIMENSIONS SHALL BE PROVIDED AS A CLEAR COVER FOR REINFORCING BARS IN STRUCTURAL MEMBERS:

CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH:

FOOTINGS 3"

CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER:

WALLS, COLUMNS, PIERS:

UP THROUGH #5 BARS 1-1/2"

#6 THROUGH #18 BARS 2"

MATERIAL DESIGN PROPERTIES:

CONCRETE PROPERTIES:

USE	28 DAY STRENGTH	MIN. H2O /CEMENT RATIO	SLUMP (INCHES)	MAX. AGGREGATE SZ.
INTERIOR FLOORS	3,500 PSI	.62	3 ±1	3/4
WALLS	3,500 PSI	.62	3 ±1	3/4
PIERS	3,500 PSI	.62	3 ±1	3/4
FOOTINGS	3,500 PSI	.62	3 ±1	1-1/2
EXTERIOR FLOORS	4,000 PSI	.48	3 ±1	3/4

REINFORCING STEEL STRENGTHS:

BARS (ASTM A615, GRADE 60) fy = 60,000 PSI  
WELDED WIRE MESH (ASTM A 185) fy = 65,000 PSI

STRUCTURAL STEEL STRENGTHS:

STEEL SUPPLIED BY METAL BUILDING MANUFACTURER PER MTL BLDG SPECS  
W SHAPES (ASTM A992, GR50) fy = 50,000 PSI  
ANGLES, CHANNELS, PLATES, & BARS (ASTM A36) fy = 36,000 PSI  
SQUARE & RECTANGULAR TS OR HSS SECTIONS (ASTM A500, GR B) fy = 42,000 PSI  
HIGH STRENGTH BOLTS (ASTM A325)

MISCELLANEOUS STRUCTURAL NOTES:

- ENGINEER ASSUMES PIN BASED COLUMNS.
- CONNECTORS:
  - FOR EXTERIOR AND INTERIOR APPLICATIONS WHERE EXPOSED TO MOISTURE, WHERE PRESSURE TREATED WOOD IS USED, AND FOR INTERIOR CORROSIVE ENVIRONMENTS ALL CONNECTORS SHALL BE HOT DIPPED GALVANIZED PER ASTM A 153A/ 153M, OR STAINLESS STEEL, INCLUDING EXPANSION BOLTS, ANCHOR BOLTS, JOIST HANGERS, AND NAILS.
  - CONNECTION DESIGN TO WOOD OR STEEL FRAMING AND EVALUATION OF STRUCTURAL MEMBERS ADEQUACY BY A REGISTERED PROFESSIONAL ENGINEER SHALL BE PROVIDED BY ALL SUBCONTRACTORS.
  - INSTALLER OF ANCHORS OR CONNECTIONS TO STRUCTURE IS RESPONSIBLE FOR ANCHOR DESIGN AND DETERMINATION OF STRUCTURAL COMPONENT ADEQUACY. DO NOT CUT REINFORCING BARS OR DAMAGE OTHER EMBEDMENTS.

CONCRETE CAST-IN-PLACE NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (MOST CURRENTLY ADOPTED EDITION).
- CONTRACTOR SHALL NOTIFY ENGINEER AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE TO FACILITATE ON-SITE OBSERVATION OF REBAR.
- WHEN THE AVERAGE TEMPERATURE FROM MIDNIGHT IS EXPECTED TO DROP BELOW 40 DEGREES FAHRENHEIT FOR THREE SUCCESSIVE DAYS, COLD WEATHER CONCRETING REQUIREMENTS SHALL BE FOLLOWED, REFER TO ACI 306R.
- WHEN AMBIENT AIR OR CONCRETE TEMPERATURE EXCEEDS 90 DEGREES FAHRENHEIT, STEEL REINFORCING AND/OR FORMING SURFACES ARE ABOVE 120 DEGREES FAHRENHEIT, OR WHEN WIND VELOCITY, HUMIDITY, OR SOLAR RADIATION CREATE CONDITIONS OF ACCELERATED MOISTURE LOSS AND INCREASE RATE OF HYDRATION, HOT WEATHER CONCRETING REQUIREMENTS SHALL BE FOLLOWED, REFER TO ACI 305R.
- ALL CONCRETE SURFACES SHALL BE FORMED OR APPROVED BY THE ENGINEER.
- CONTROL JOINTS SHALL BE CUT IN SLAB-ON-GRADE CONSTRUCTION WITHIN 24 HOURS OF INITIAL POUR.
- PROVIDE ISOLATION JOINTS WHERE SLABS ABUT VERTICAL SURFACES AS SHOWN.
- SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED AT THREE DIAMETERS O/C, OR 4" MINIMUM.
- ALUMINUM CONDUIT OR PIPING SHALL NOT BE CAST IN CONCRETE.

STRUCTURAL DESIGN DATA:

DESIGN CODE:

2011 WISCONSIN ENROLLED COMMERCIAL BUILDING CODE (2009 IBC)

SOIL LOAD:

ALLOWABLE NET SOIL BEARING PRESSURE (ASSUMED) 2,000 PSF  
SOILS REPORT AVAILABLE NO

SEISMIC LOAD:

SEISMIC USE GROUP / OCCUPANCY CATEGORY II  
SEISMIC LOAD IMPORTANCE FACTOR (Ie) 1.0  
SEISMIC SITE CLASS D (ASSUMED)  
MAPPED SPECTRAL RESPONSE ACCELERATION (Ss) 0.122  
MAPPED SPECTRAL RESPONSE ACCELERATION (S1) 0.048  
SPECTRAL RESPONSE COEFFICIENT (Sds) 0.131  
SPECTRAL RESPONSE COEFFICIENT (Sd1) 0.77  
SEISMIC DESIGN CATEGORY A

WIND LOAD:

BASIC WIND SPEED 90 MPH  
BUILDING OCCUPANCY CATEGORY II  
WIND LOAD IMPORTANCE FACTOR (Iw) 1.0  
WIND EXPOSURE C  
INTERNAL PRESSURE COEFFICIENTS ± 0.18

ROOF DESIGN LOAD:

ROOF LIVE LOAD 25 PSF  
ROOF DEAD LOAD 15 PSF  
UNBALANCED LOAD:  
WINDWARD 0 PSF  
LEEWARD 30 PSF  
DRIFT LOADS (SEE APPROPRIATE DIAGRAMS)

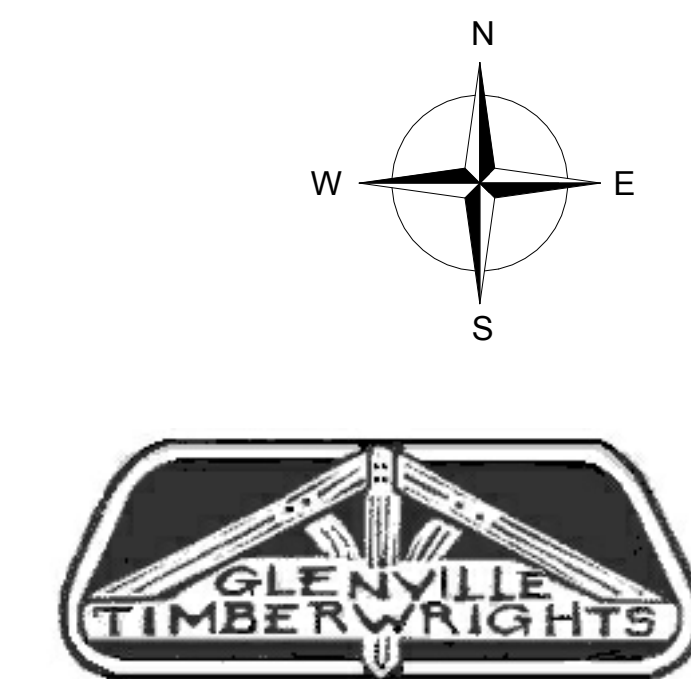
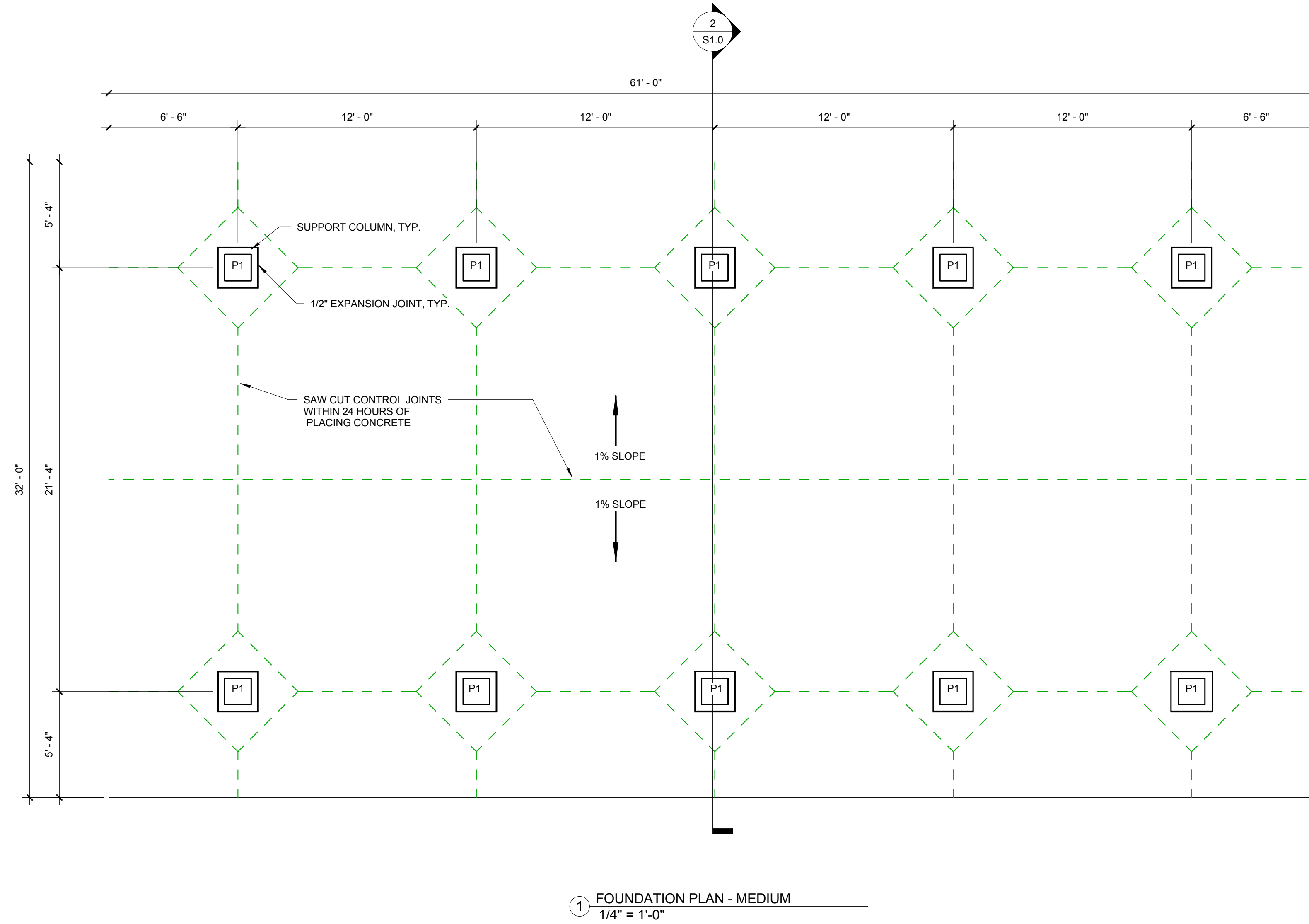
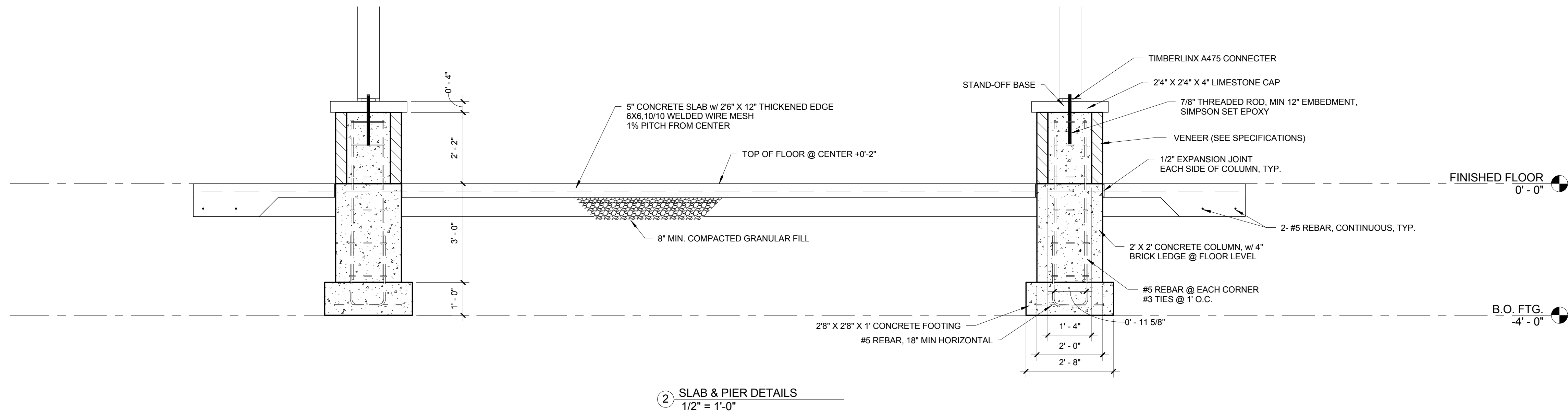
SNOW LOAD:

GROUND SNOW LOAD 30 PSF  
SNOW EXPOSURE FACTOR (Ce) 1.0  
SNOW IMPORTANCE FACTOR (Is) 1.0  
THERMAL FACTOR (Ci) 1.2  
OCCUPANCY CATEGORY II

\* SEISMIC, WIND, AND SNOW LOAD CALCULATIONS AND DESIGN DATA SHALL BE PERFORMED AND SUPPLIED BY THE TRUSS MANUFACTURER.

FOUNDATION PLAN NOTES:

- REFER TO STRUCTURAL DETAIL PLAN SHEETS FOR MISCELLANEOUS DETAILS NOT INDICATED ON PLAN.
- NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS. ALL FOOTINGS SHALL REST ON UNDISTURBED ROCK OR SOIL EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- WHERE REQUIRED, REMOVE UNSUITABLE EXISTING SOILS BELOW FOOTINGS, SLABS-ON-GRADE, ETC. TO APPROVED BEARING SOIL. REPLACE WITH ENGINEERED FILL (COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY) TO THE REQUIRED FOOTING BEARING ELEVATION. REVIEW SOIL REPORT. IF ANY, FILL MATERIAL SHALL HAVE A MINIMUM BEARING CAPACITY AS INDICATED IN THE STRUCTURAL DESIGN DATA SOIL LOAD INFORMATION ON SHEET S0.0. TYPE OF FILL MATERIAL AND PLACEMENT SHALL CONFORM TO SPECIFICATIONS UNDER THE DIRECTION AND SUPERVISION OF THE SOILS ENGINEER. SOILS ENGINEER SHALL FIELD VERIFY ALL BEARING CAPACITIES BEFORE FOOTINGS ARE POURED. CONTACT ENGINEER IF UNABLE TO ATTAIN LISTED SOIL BEARING PRESSURE.
- PROVIDE A MINIMUM OF 8 INCHES OF WELL COMPACTED GRANULAR FILL BELOW ALL SLABS ON GRADE. COMPACT TO 95% OF THE MODIFIED PROCTOR DENSITY.
- CONCRETE EXPOSED TO WEATHER (RETAINING WALLS, EXTERIOR SLABS, WALKS, CURBS, ETC. BUT EXCLUDING EXPOSED FOUNDATION WALLS) SHALL CONTAIN 4 TO 7 PERCENT AIR BY VOLUME.
- DELIVERY TICKETS FOR EACH LOAD OF CONCRETE DELIVERED TO THE JOB SITE SHALL BE FURNISHED UPON REQUEST TO THE ENGINEER. TICKET INFORMATION SHALL CONTAIN ALL PERTINENT DESIGN INFORMATION, INCLUDING AMOUNT OF WATER ADDED AT THE JOB SITE, IF ANY.
- FORMWORK FOR FOOTINGS SHALL CONSIST OF A MANUFACTURED FORM SYSTEM OR A MINIMUM 1-1/2" THICK WOOD PLANK SECURED TO WOOD OR STEEL STAKES. POURING TO EXCAVATION BANK MAY NOT BE DONE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- MIXING AND PLACING OF CONCRETE TO BE IN ACCORDANCE WITH ACI 318. CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICAL IN ITS FINAL POSITION TO AVOID SEGREGATION DUE TO REHANDLING OR FLOWING. CONCRETING SHALL BE CARRIED ON A SUCH A RATE THAT CONCRETE IS AT ALL TIMES PLASTIC AND FLOWS READILY INTO SPACES BETWEEN REINFORCEMENT. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.



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**FOUNDATION PLAN**

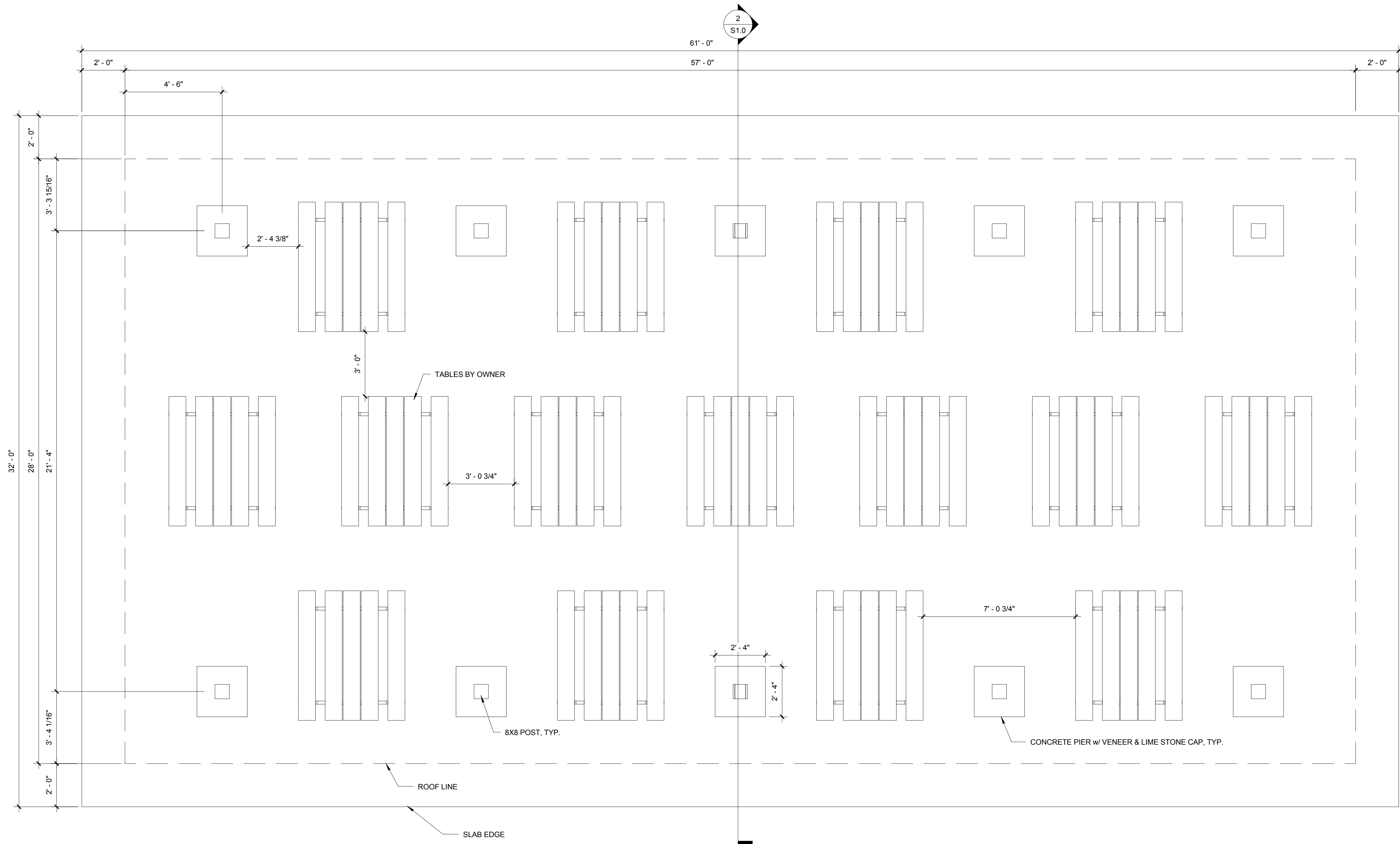
**PARK SHELTER - 28' X 57'**  
**Dane County Dept. of Public Works**  
**DANE COUNTY, WI**

REVISIONS	NO.	BY	DATE

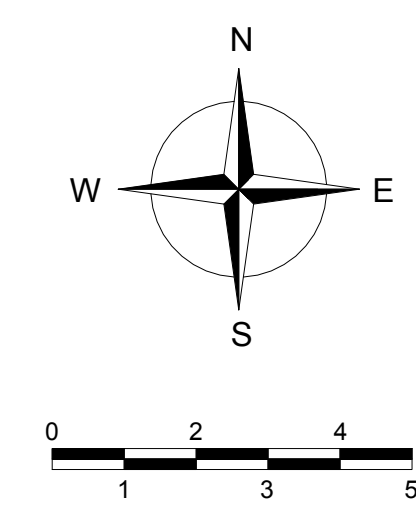
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 FULL SIZE SCALE

DRAWN BY: CJK  
 DATE: MAY 2013  
 GEC FILE NO.: 2-0313-101  
 SHEET NO.:

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① FLOOR PLAN - MEDIUM  
3/8" = 1'-0"



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**FLOOR PLAN**  
**PARK SHELTER - 28' X 57'**  
**Dane County Dept. of Public Works**  
**DANE COUNTY, WI**

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EXTERIOR ELEVATIONS

PARK SHELTER - 28' X 57'

Dane County Dept. of Public Works

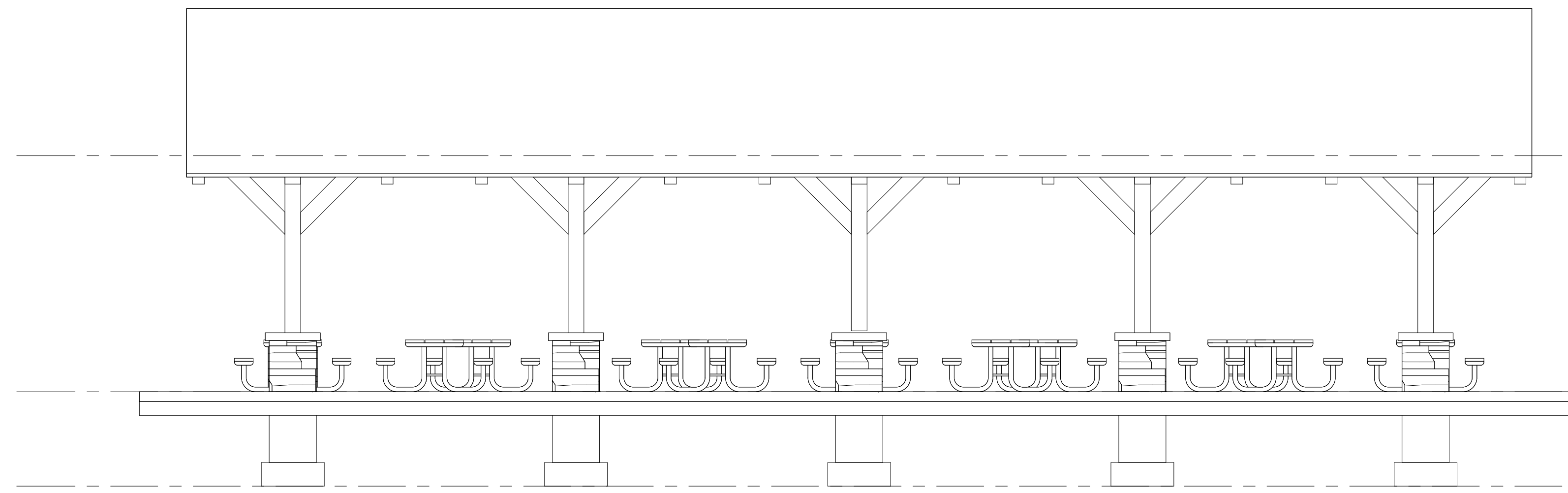
DANE COUNTY, WI

NO.	DATE	BY

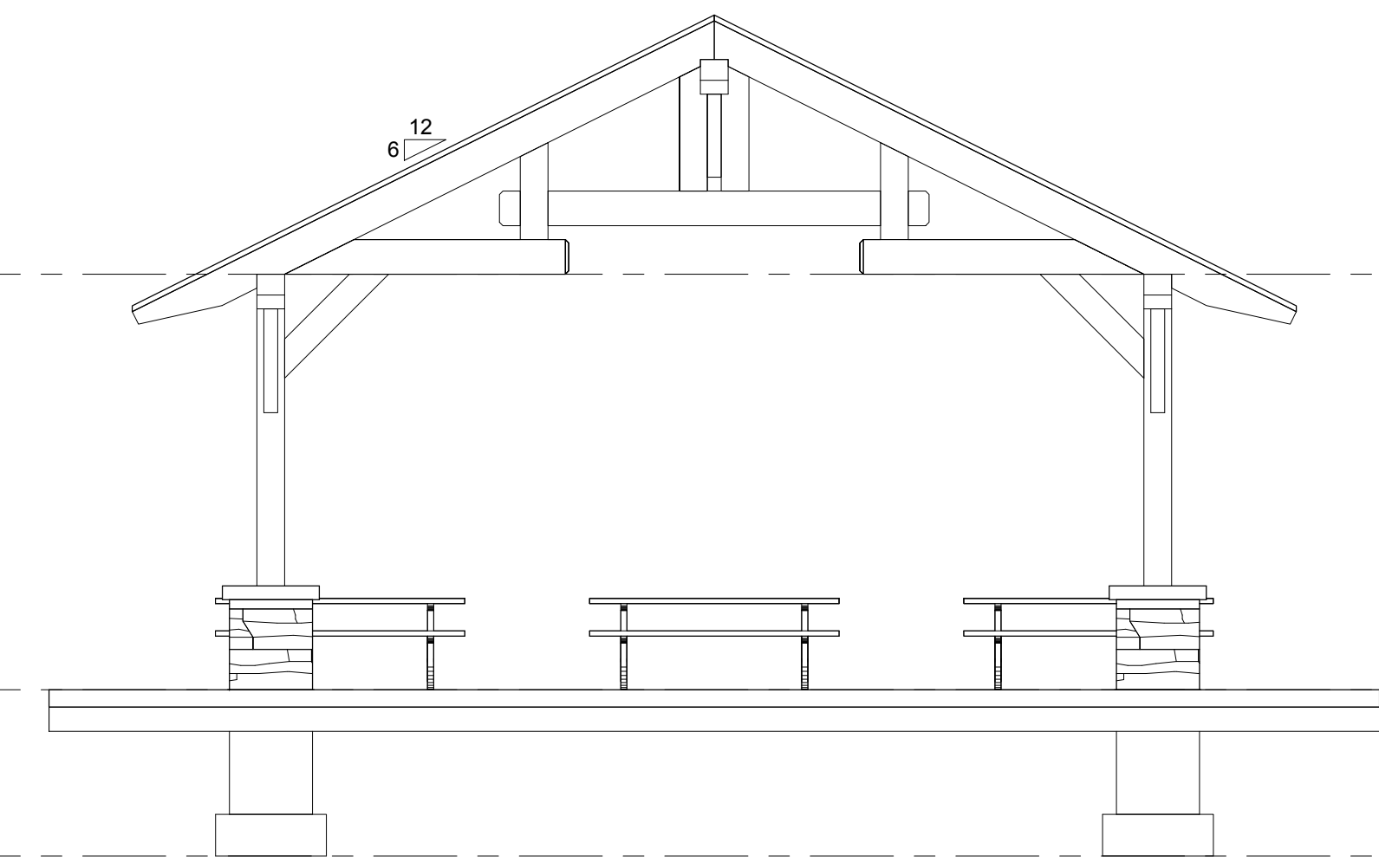
1/4" = 1'-0"  
FULL SIZE SCALE

DRAWN BY: CJK  
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GEC FILE NO.: 2-0313-101  
SHEET NO.:

A2.0



2 NORTH ELEVATION  
1/4" = 1'-0"

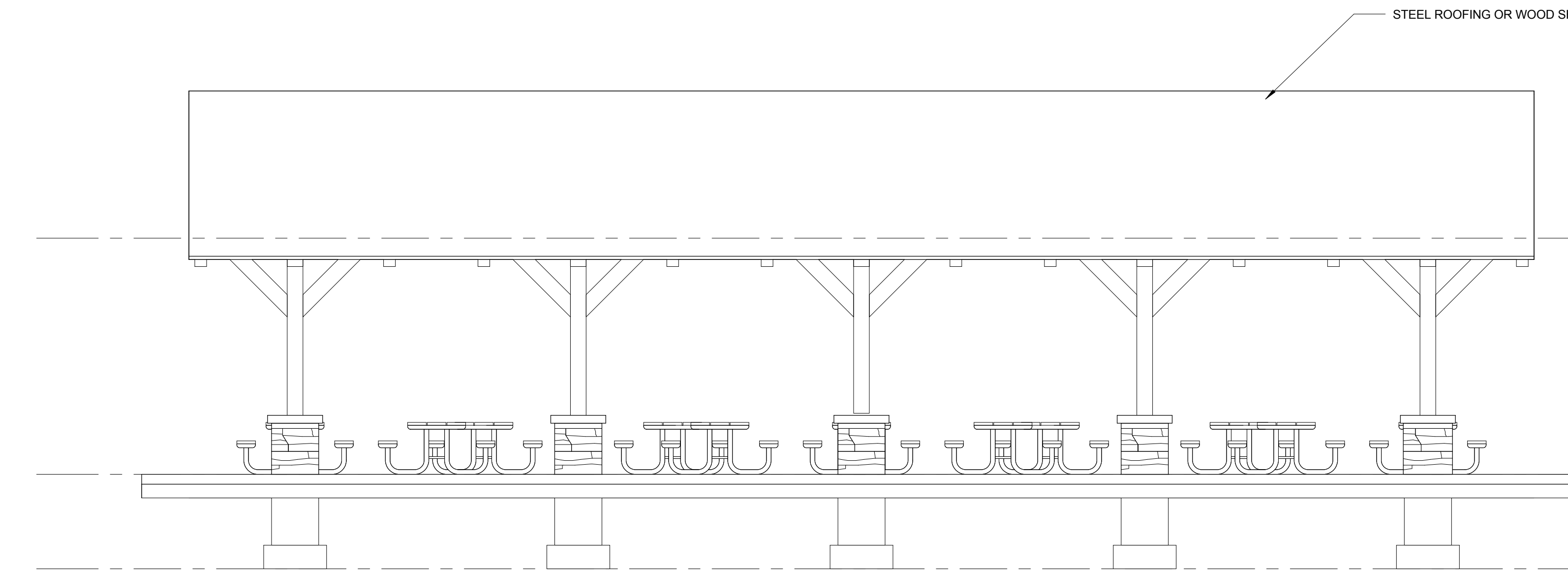


1 EAST ELEVATION  
1/4" = 1'-0"

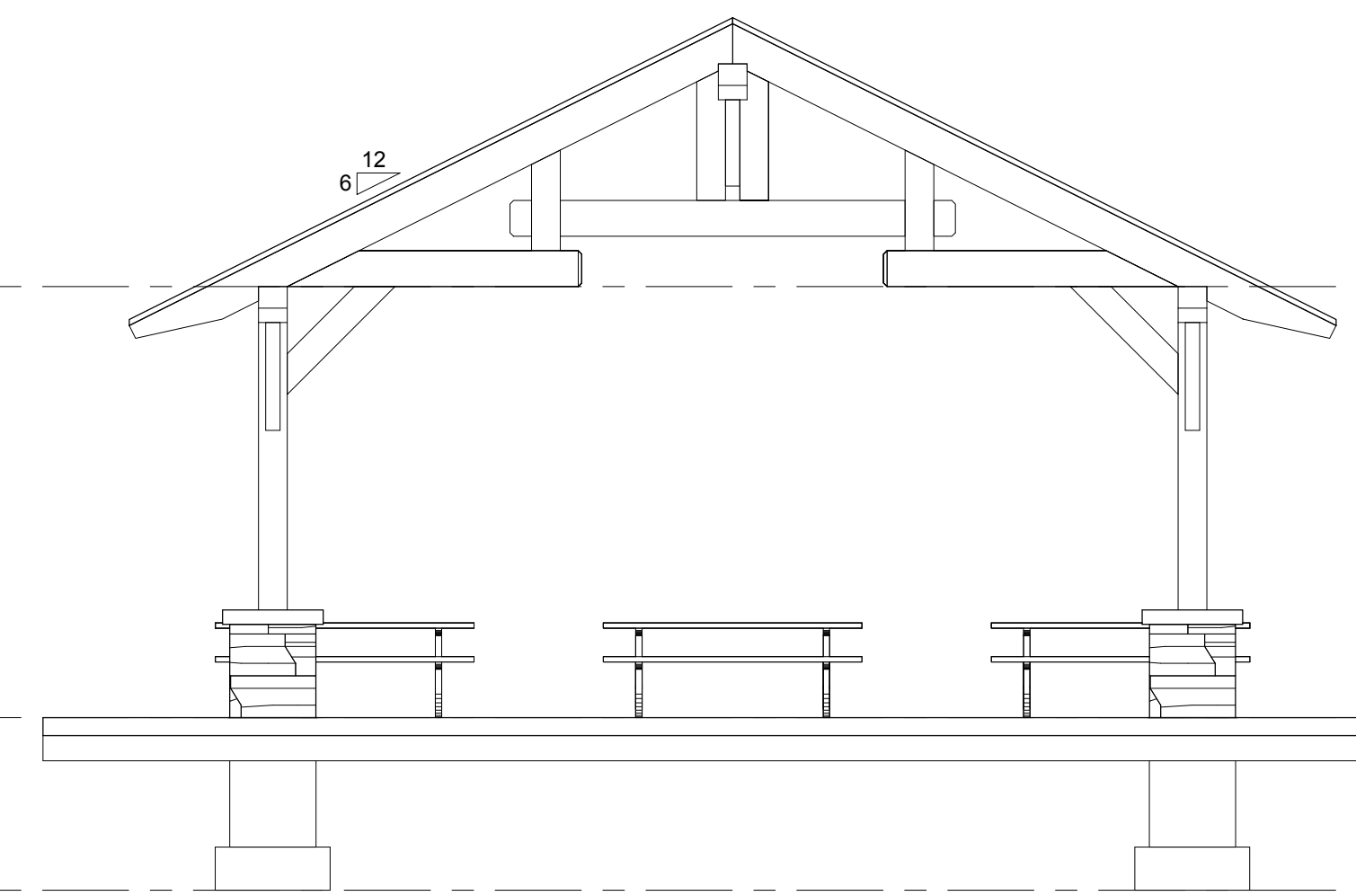
ROOF BRG.  
10' - 0"

FINISHED FLOOR  
0' - 0"

B.O. FTG.  
-4' - 0"



4 SOUTH ELEVATION  
1/4" = 1'-0"

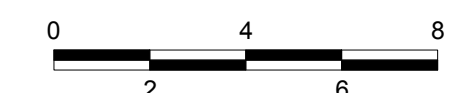


3 WEST ELEVATION  
1/4" = 1'-0"

ROOF BRG.  
10' - 0"

FINISHED FLOOR  
0' - 0"

B.O. FTG.  
-4' - 0"



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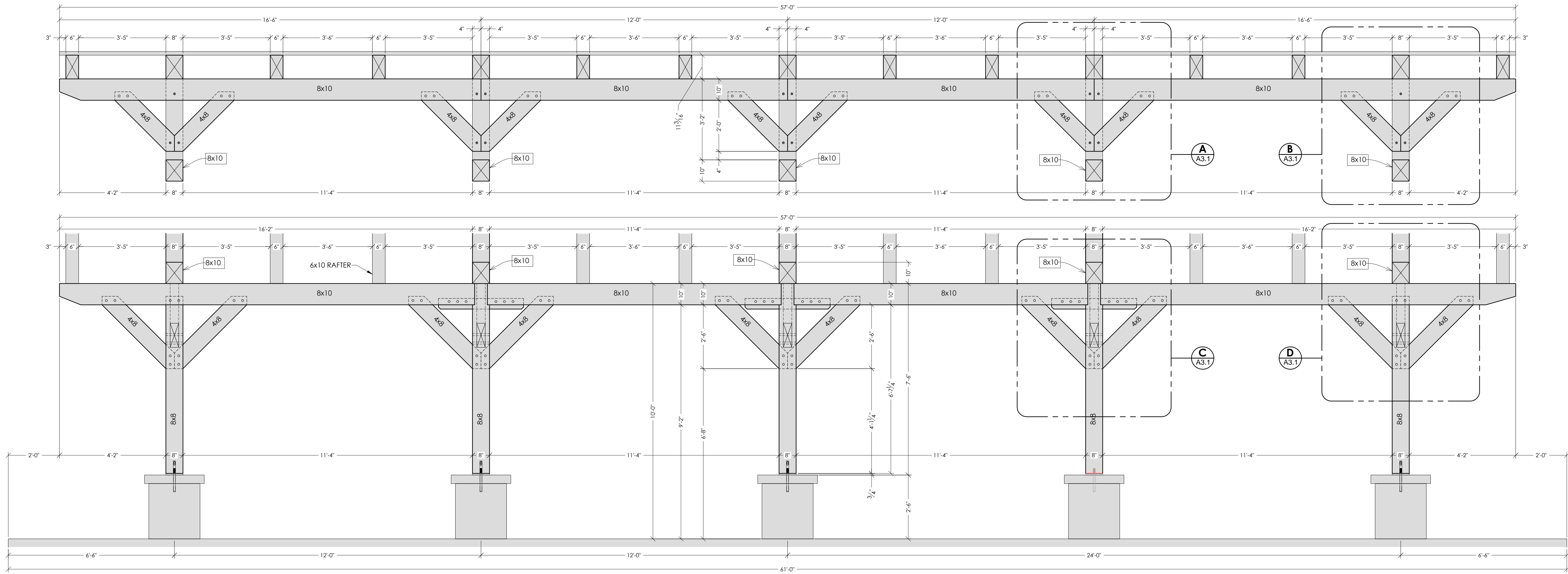
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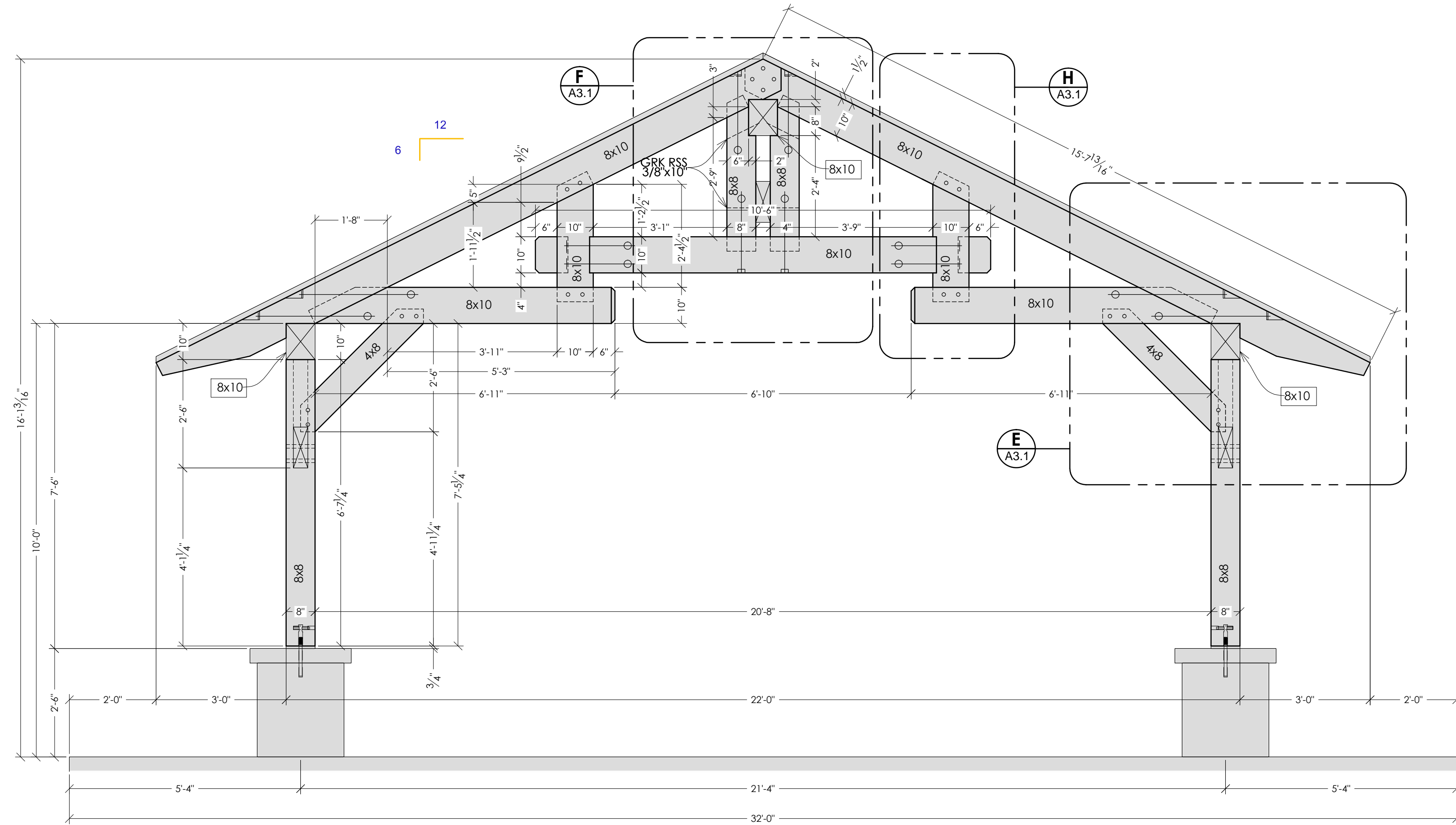
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**BUILDING SECTIONS**  
Park Shelter - 28' x 57'

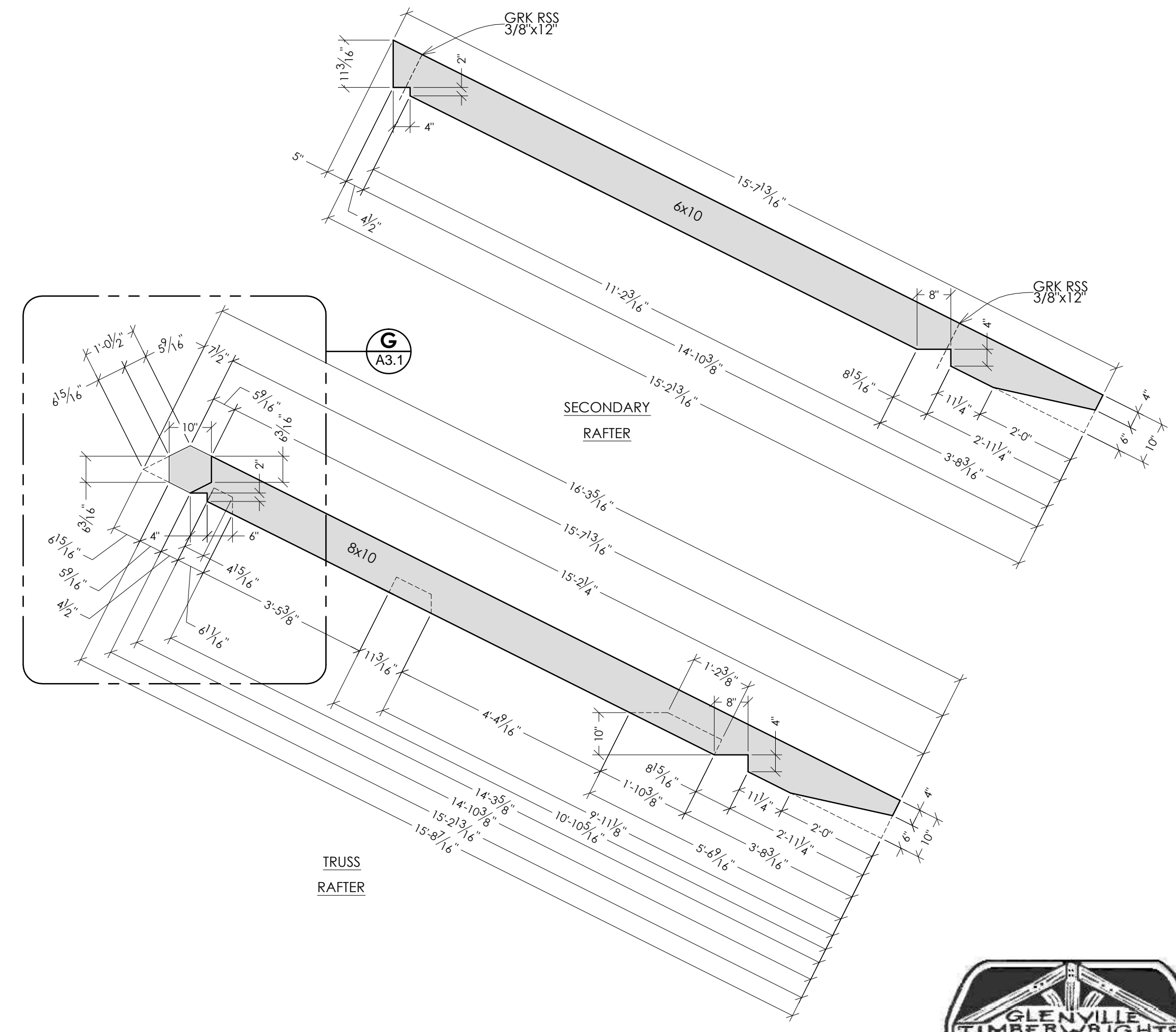
Dane County Dept. of Public Works  
Dane County, WI



**1 COLUMN & RIDGE SECTION**  
SCALE: 1/2"=1'-0" (24"x36")



**2 TRUSS SECTION**  
SCALE: 1/2"=1'-0" (24"x36")



**3 RAFTER DETAILS**  
SCALE: 1/2"=1'-0" (24"x36")

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DATE: May 2013  
GEC FILE NO. 2-0313-101  
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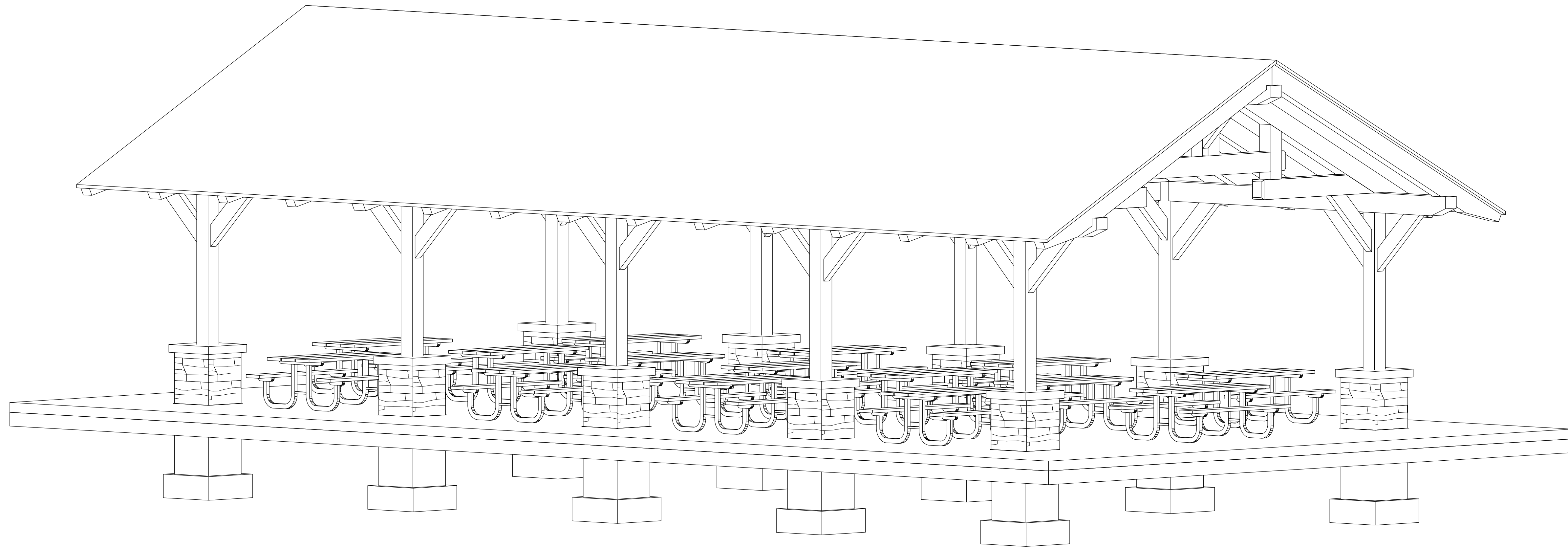


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1 PERSPECTIVE VIEW



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**PERSPECTIVE VIEW**

**PARK SHELTER - 28' X 57'**  
**Dane County Dept. of Public Works**  
**DANE COUNTY, WI**

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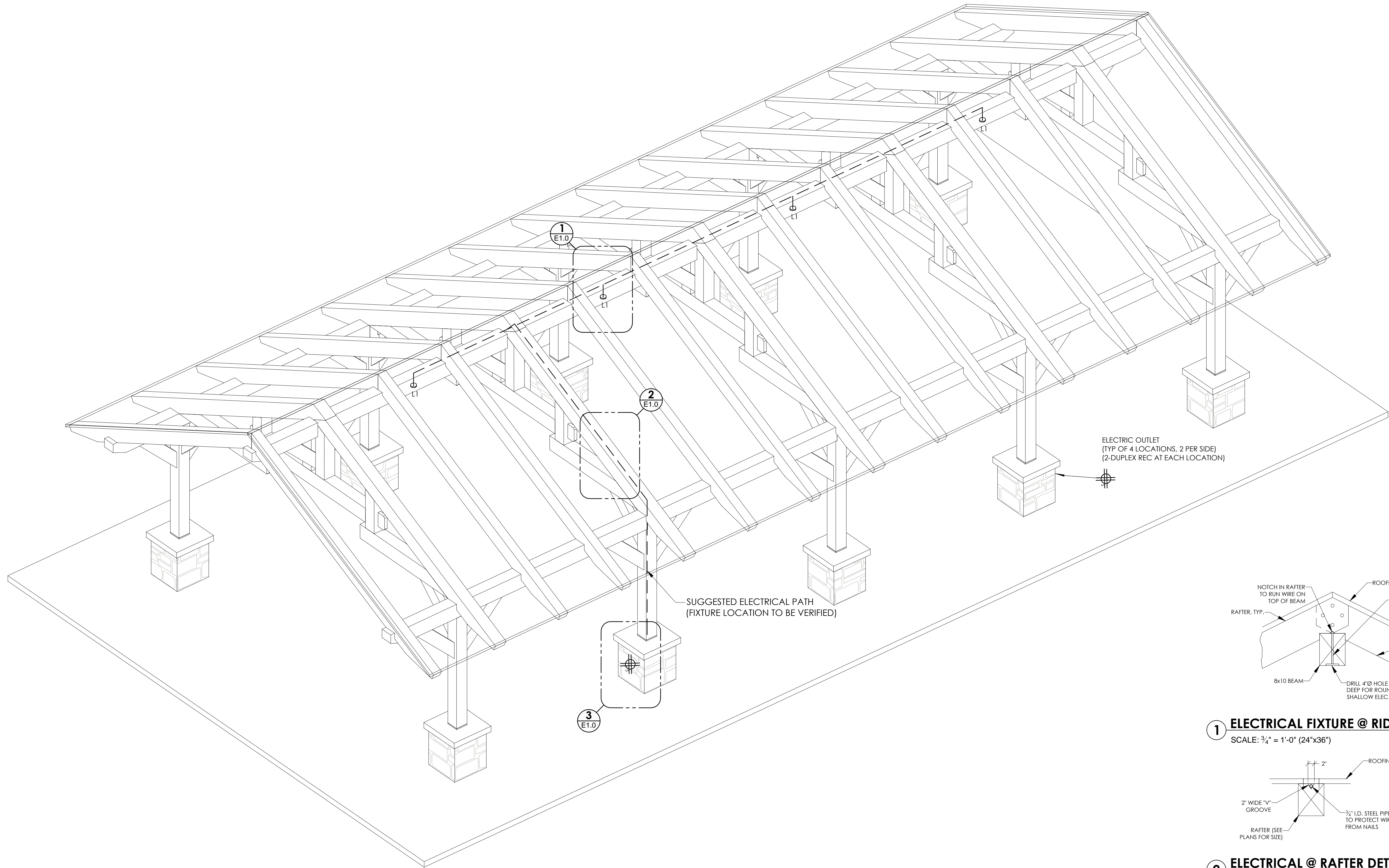
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**ELECTRICAL DETAILS**  
**Park Shelter - 28' x 57'**

Dane County Dept. of Public Works  
Dane County, WI

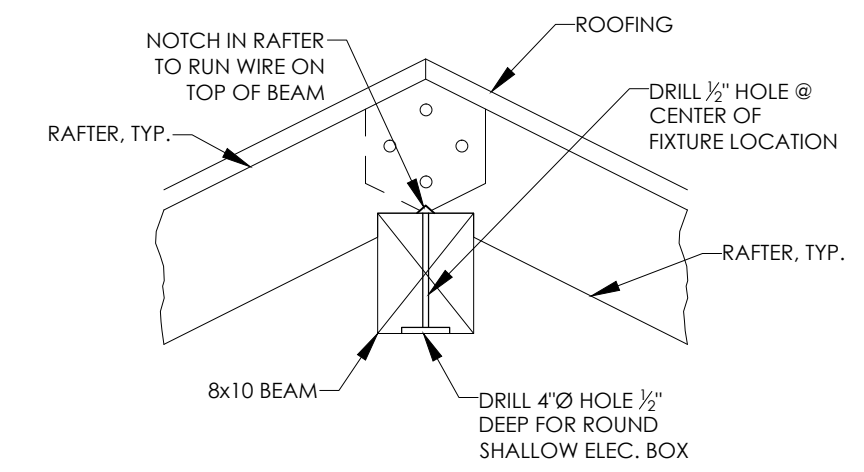


**ELECTRICAL LAYOUT PERSPECTIVE**

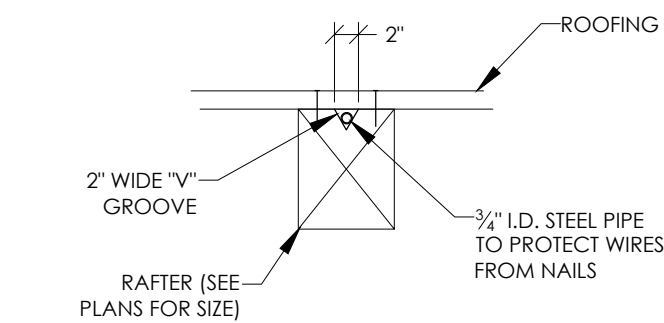
SCALE: 3/8" = 1'-0" (24"x36")

**NOTES:**

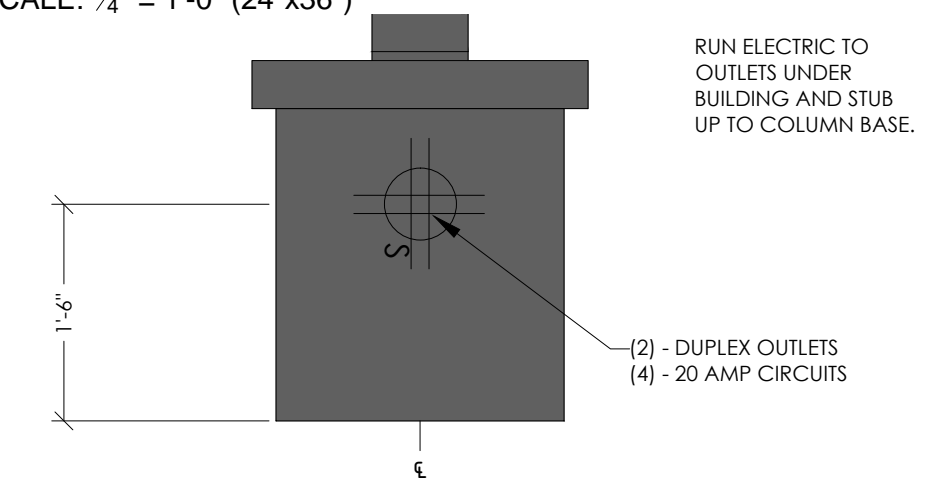
1. OUTLETS TO BE FED FROM UNDER FLOOR AND INSTALLED IN PIERS.
2. LOCATE 200 AMP MAIN SERVICE AT LOCATION DIRECTED BY OWNER. SERVICE WILL BE LOCATED WITHIN 25' OF PROPOSED FACILITY.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



**1 ELECTRICAL FIXTURE @ RIDGE DETAIL**  
SCALE: 3/4" = 1'-0" (24"x36")



**2 ELECTRICAL @ RAFTER DETAIL**  
SCALE: 3/4" = 1'-0" (24"x36")



**3 ELECTRICAL OUTLET @ BASE DETAIL**  
SCALE: 3/4" = 1'-0" (24"x36")

(8 TOTAL)



REVISIONS	NO.	BY	DATE

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DATE **May 2013**  
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