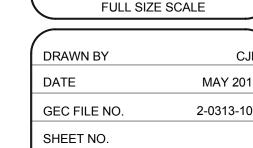
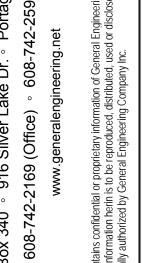
General





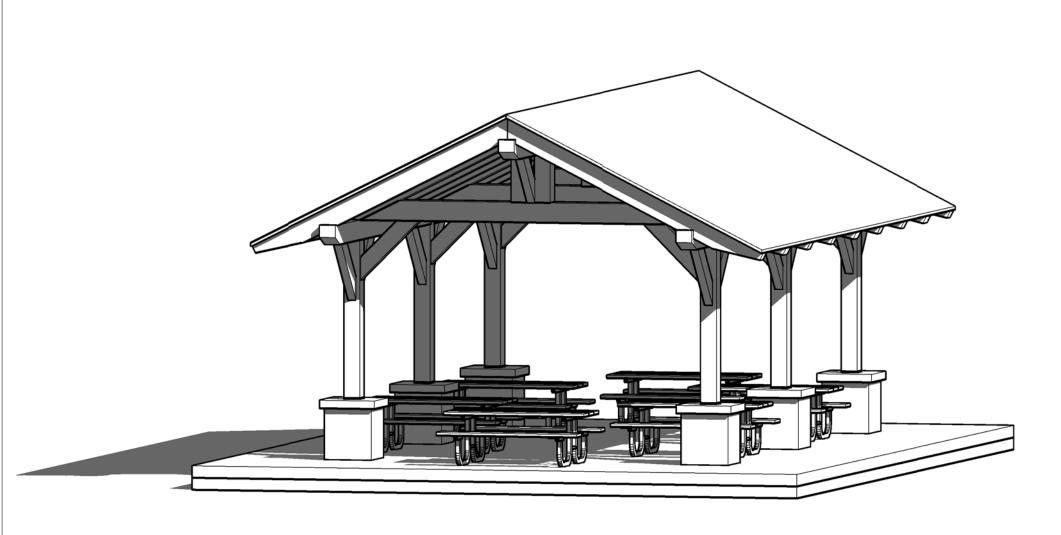
FULL SIZE SCALE

MAY 2013 2-0313-101 **G1.0**



DANE COUNTY PARKS TIMBER SHELTER - 22' X 33'

DANE COUNTY, WI **MAY 2013**



- OCCUPANCY TYPE A-5 - OUTSIDE ASSEMBLY
- CONSTRUCTION CLASSIFICATION - VB

(2009 I - CODES)

- CONSTRUCTION CLASSIFICATION - VE WOOD FRAMED UNPROTECTED - ALLOWABLE AREA

UNLIMITED (TABLE 503) - OCCUPANT LOAD

48 - TOTAL

- BUILDING IS NOT PROTECTED WITH A COMPLETE NFPA 13 FIRE SPRINKLER SYSTEM

BUILDING DESIGN CRITERIA

- CODE COMPLIANCE PER 2011 WISCONSIN COMMERCIAL BUILDING CODE (WCBC)

EOP = EDGE OF PAVEMENT	MFG. = MANUFACTURER
BOC = BACK OF CURB	DIM. = DIMENSION
EOSW = EDGE OF SIDEWALK	SPF = SPRUCE PINE FUR
TOF = TOP OF FOOTING	DF = DOUGLAS FIR
FFE = FIRST FLOOR ELEVATION	SP = SOUTHERN PINE
TOW = TOP OF WALL	CONC. = CONCRETE
SFE = SECOND FLOOR ELEVATION	WWF = WIRE WELDED FAB
ELEV. = ELEVATION	OC = ON CENTER
RO = ROUGH OPENING	EW = EACH WAY
BM = BENCHMARK	EF = EACH FACE
SQ. FT. = SQUARE FEET	WH = WATER HEATER
DIA. = DIAMETER	DW = DISHWASHER
TYP. = TYPICAL	REF. = REFRIGERATOR
HM = HOLLOW METAL	FRZ. = FREEZER
SS = STAINLESS STEEL	FTG. = FOOTING
ALUM. = ALUMINUM	PC = PRECAST
IBC = INTERNATIONAL BUILDING CODE	OHD = OVERHEAD DOOR
WD = WOOD	T/O = TOP OF
MTL. = METAL	GALV. = GALVANIZED
HSS = HOLLOW STEEL STRUCTURE	BRG. = BEARING
STL. = STEEL	OH = OVERHANG

OFOI - OWNER FURNISHED OWNER INSTALLED

OWNER

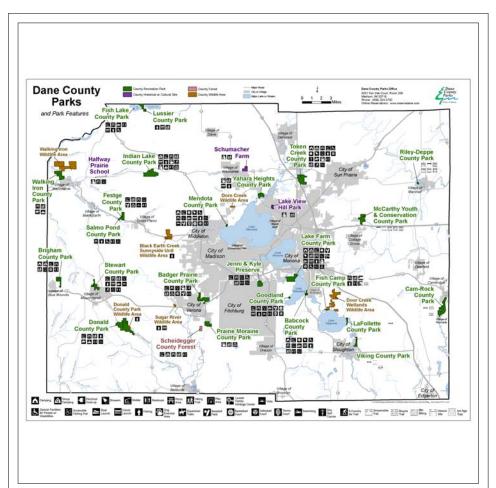
DANE COUNTYPARKS 5201 FEN OAK DR. SUITE 208 MADISON, WI 53718-8830 608-224-3730

ABBREVIATIONS

SUBMITTAL TYPE PRIMARY OCCUPANCY TYPE A-5 **SECONDARY OCCUPANCY TYPE** N/A **OCCUPANCY SEPARATIONS**

PROJECT AREA	726 SQ. FT.
FLOOR LEVELS	1
CONSTRUCTION CLASS	VB
SPRINKLER PROTECTION	NONE





LOCATION PLAN DANE COUNTY, WI

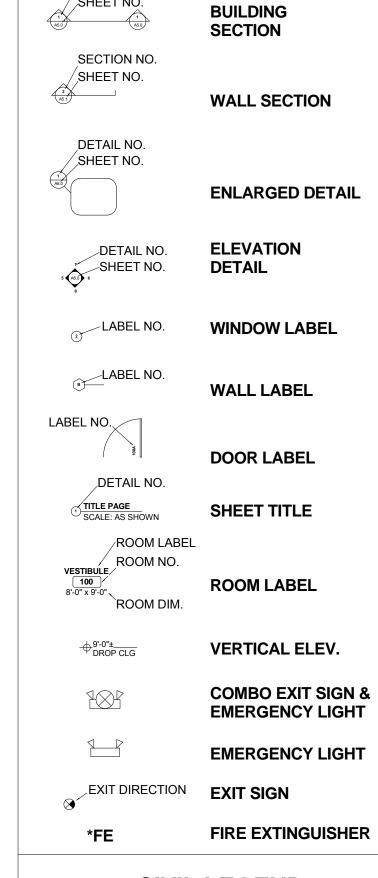
PROJECT LOCATION

SEAL

INDEX OF DRAWINGS		
SHEET NO.	DESCRIPTION	
GENERAL -		
G1.0	TITLE SHEET	
CIVIL -		
C1.0	SITE PLAN	
STRUCTURAL -		
S0.0	STRUCTURAL NOTES	
S1.0	FOUNDATION PLAN	
ARCHITECTURAL-		
A1.0	FIRST FLOOR PLAN	
A2.0	EXTERIOR ELEVATIONS	
A3.0	BUILDING SECTIONS & DETAILS	
A3.1	TRUSS & COLUMN DETAILS	
A3.2	MISC. DETAILS	
A4.0	PERSPECTIVE VIEW	
ELECTRICAL -		

ELECTRICAL PLAN





ARCHITECTURAL LEGEND

SECTION NO.

CIVIL LEGEND

PROPOSED MANHOLE
EXISTING HYDRANT
PROPOSED HYDRANT
VALVE

EXISTING MANHOLE

CURB STOP

PROPERTY CORNER **LIGHT POLE**

POWER/TELEPHONE **POLE GUY WIRE**

UTILITY PEDESTAL

SOIL BORING MONITORING WELL

MAILBOX POTENTIAL HAZARD **BENCH MARK**

DECIDUOUS TREE CONIFEROUS TREE ACCESSIBILITY SYMBOL

> DIGGERS HOTLINE NOTE To Obtain Location of Participants Underground Facilities Before You Dig in Wisconsin CALL DIGGERS HOTLINE 1-800-242-8511 Wis Statute 182.0175 (1974) Requires Min. 3 Work Days Notice Before You Excavate

DIMENSIONS

16"

P2

WIDTH LENGTH DEPTH

16"

PIER SCHEDULE

4- #5 VERTICAL

REINFORCEMENT

w/ #3 TIES @ 12" O.C.

TOP OF

+2'2"

FOOTING SCHEDULE						
MARK	DIMENSIONS			REINFORCEMENT	TOP OF	REMARKS
	WIDTH	LENGTH	DEPTH	(W)- SPAN WIDTH (L)- SPAN LENGTH	ELEV	
F1						
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
- WELDED WIRE REINFORCING SHALL BE IN FLAT SHEETS ONLY AND SHALL BE LAPPED AND/OR ANCHORED TO DEVELOP Fy PER ACI 315.

1-1/2"

1-1/2"

10. 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

CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER:

WALLS, COLUMNS, PIERS:

UP THROUGH #5 BARS #6 THROUGH #18 BARS

CONCRETE NOT EXPOSED TO EARTH OR WEATHER WALLS:

SIDES

UP THROUGH #11 BARS 3/4" 1-1/2" #14 AND #18 BARS COLUMNS / PIERS:

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

fy = 60,000 PSI

fy = 65,000 PSI

REINFORCING STEEL STRENGTHS:

BARS (ASTM A615, GRADE 60) WELDED WIRE MESH (ASTM A 185)

STRUCTURAL STEEL STRENGTHS:

STEEL SUPPLIED BY METAL BUILDING MANUFACTURER PER MTL BLDG SPECS W SHAPES (ASTM A992, GR50) fy = 50,000 PSIANGLES, CHANNELS, PLATES, & BARS (ASTM A36) fy = 36,000 PSISQUARE & 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
- 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.
- 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
- PROVIDE ISOLATION JOINTS WHERE SLABS ABUT VERTICAL SURFACES AS SHOWN.
- SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED AT THREE DIAMETERS
- 9. 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

*SEISMIC LOAD:

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

*WIND LOAD:

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

ROOF DESIGN LOAD:

ROOF LIVE LOAD

ROOF DEAD LOAD

UNBALANCED LOAD WINDWARD LEEWARD 30 PSF DRIFT LOADS (SEE APPROPRIATE DIAGRAMS)

15 PSF

*SNOW LOAD:

GROUND SNOW LOAD SNOW EXPOSURE FACTOR (Ce) 1.0 SNOW IMPORTANCE FACTOR (Is) THERMAL FACTOR (Ct) OCCUPANCY CATEGORY

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

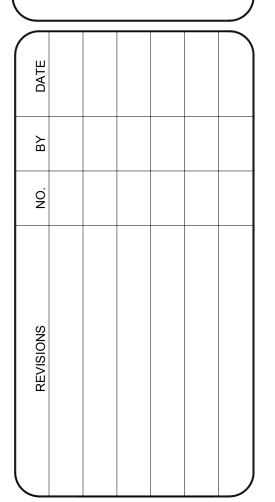
FOUNDATION PLAN NOTES:

- 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.

omp

3 O R X no S < C

3



As indicated

FULL SIZE SCALE DRAWN BY DATE MAY 2013 GEC FILE NO. 2-0313-101 SHEET NO.



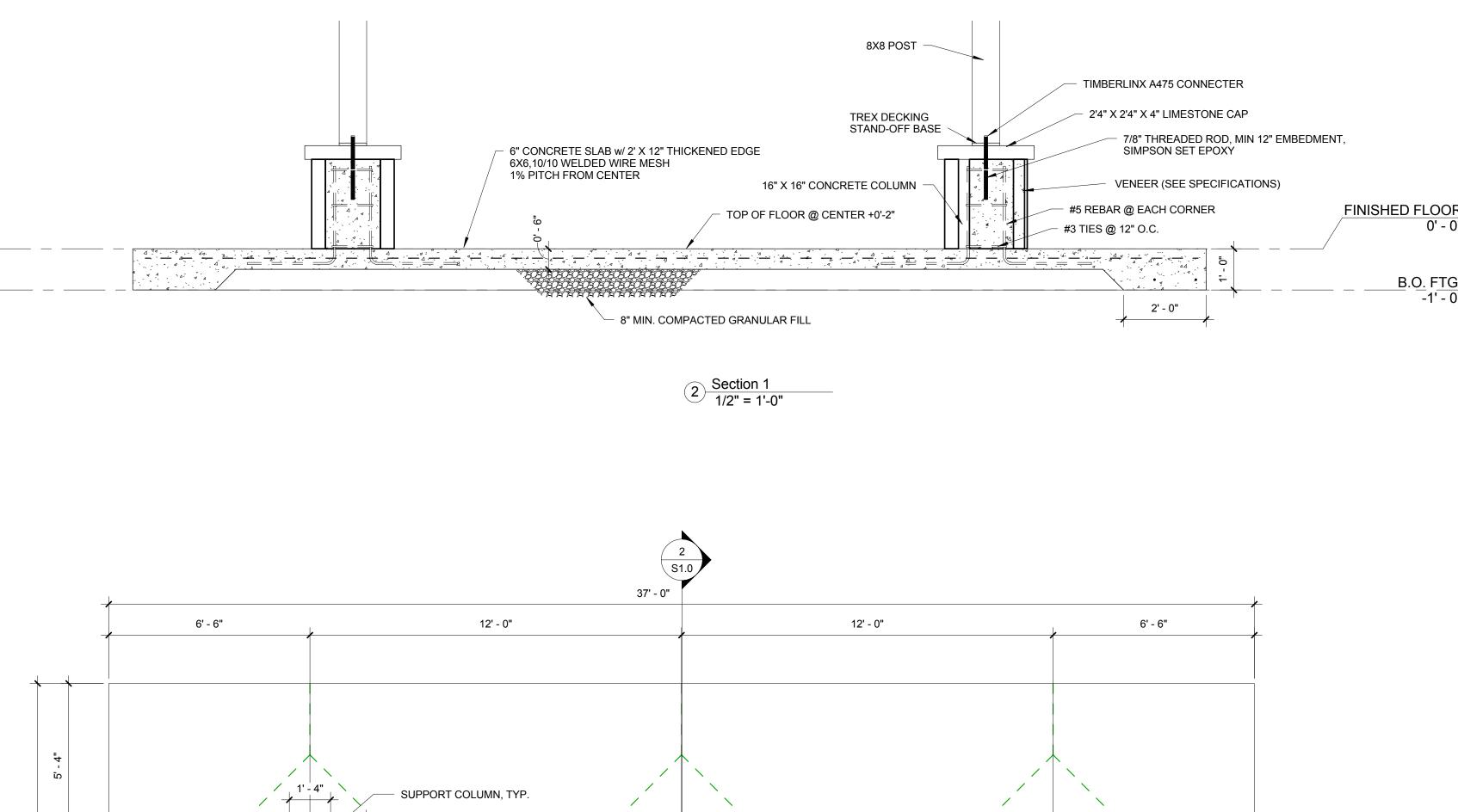
Engineering Company General

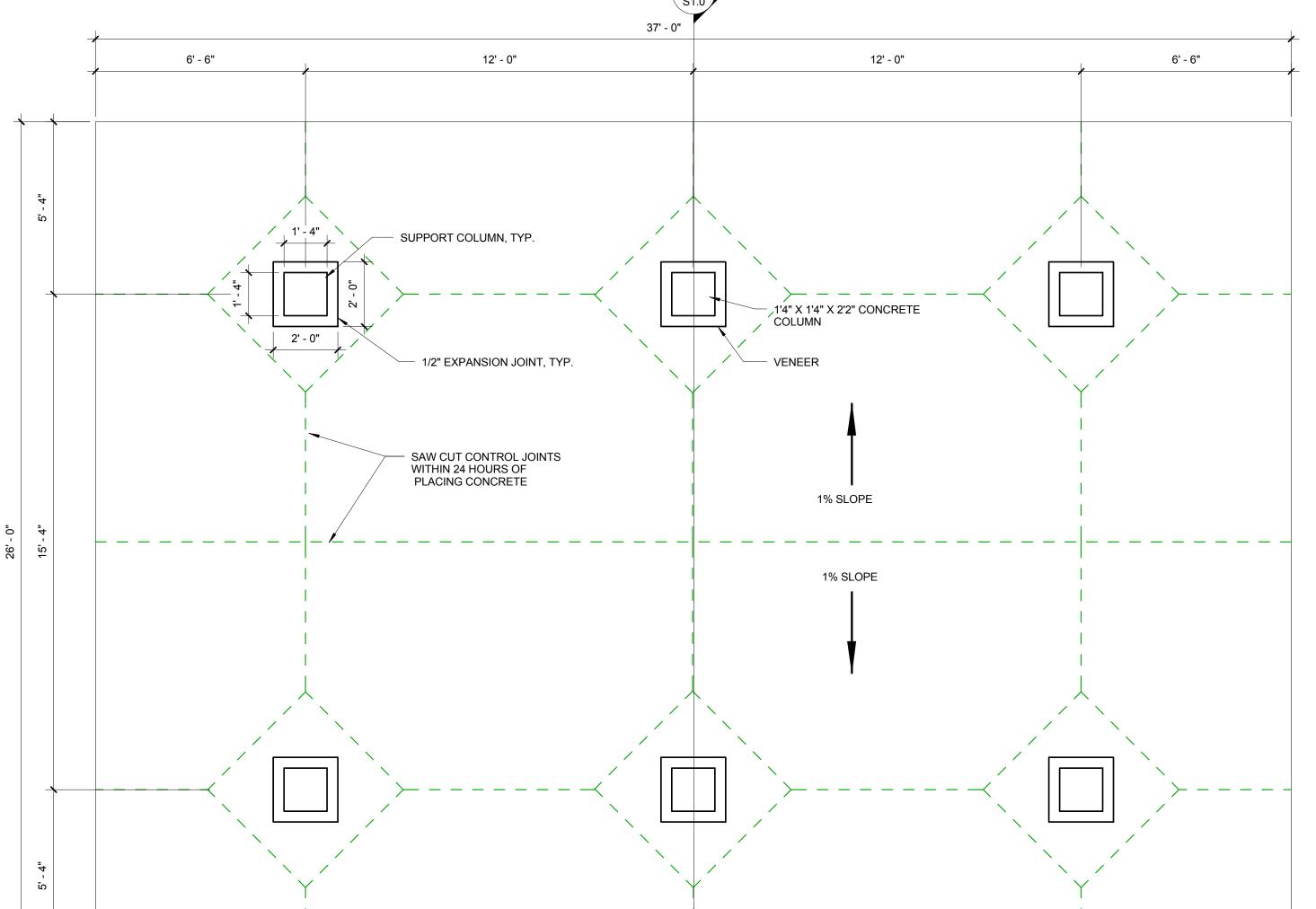
UNDATION Dept.

ARK Dan

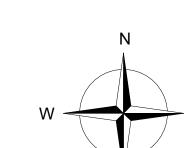
As indicated FULL SIZE SCALE DRAWN BY MAY 2013 GEC FILE NO. 2-0313-101

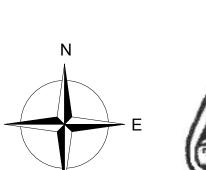
SHEET NO.

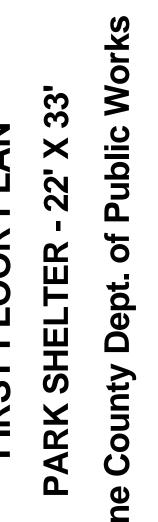




1 FOUNDATION PLAN
3/8" = 1'-0"







General Engineering Company

FULL SIZE SCALE

As indicated DRAWN BY GEC FILE NO. SHEET NO.

MAY 2013 2-0313-101

FIR Dan

37' - 0" 33' - 0" 2' - 0" 3' - 0 3/4" TABLES BY OWNER 2' - 4 3/8" 2' - 4" 8X8 POST, TYP. CONCRETE PIER w/ VENEER & LIME STONE CAP, TYP. ROOF LINE

1) FLOOR PLAN 1/2" = 1'-0"

—— SLAB EDGE

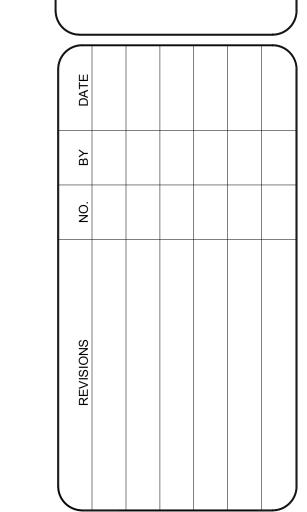


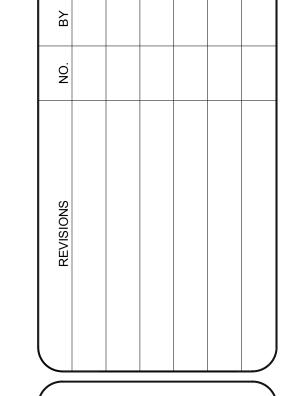
General Engineering Company

22' X 33' RIOR ELEVATIONS SHELTER **PARK** EXTE

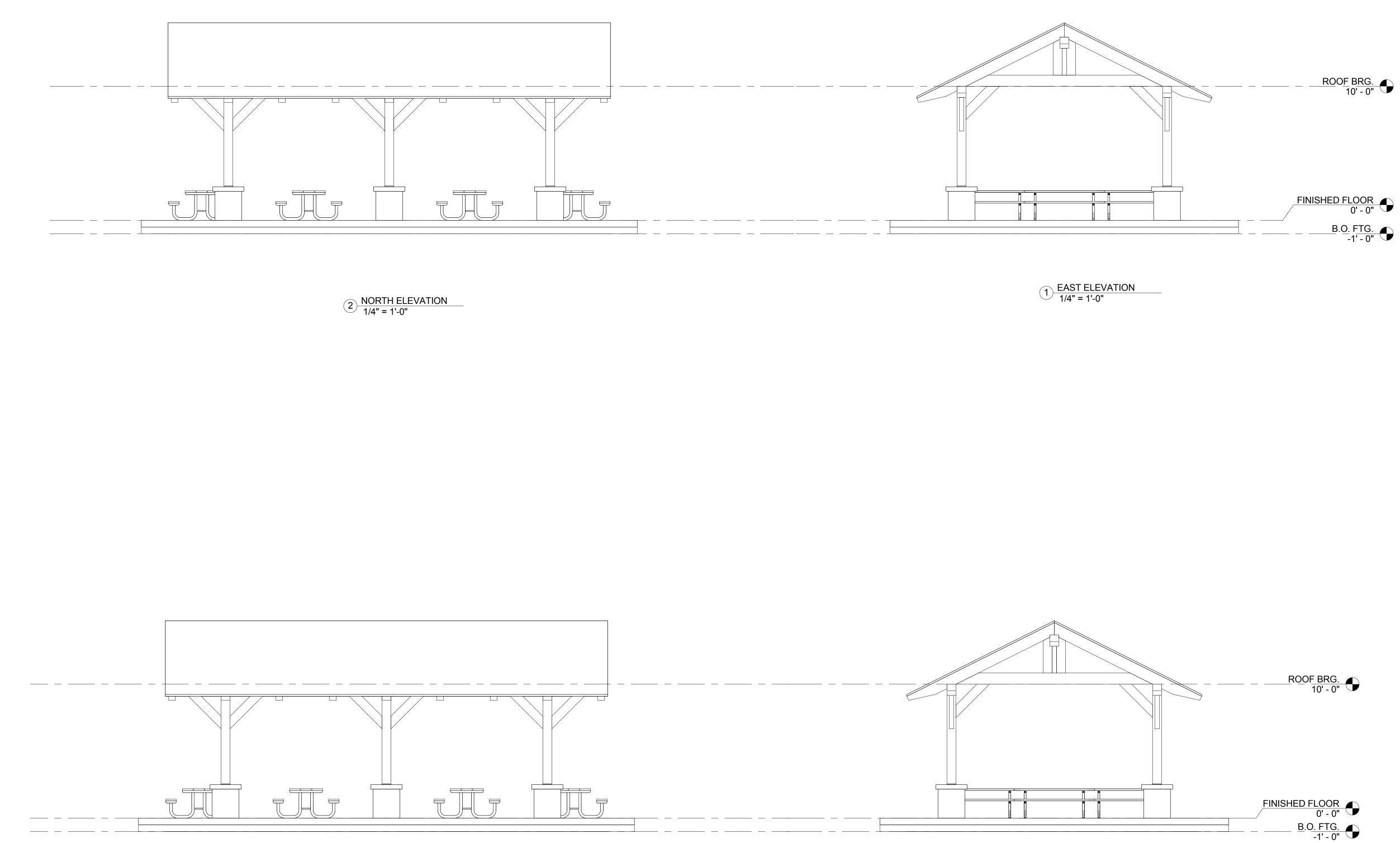






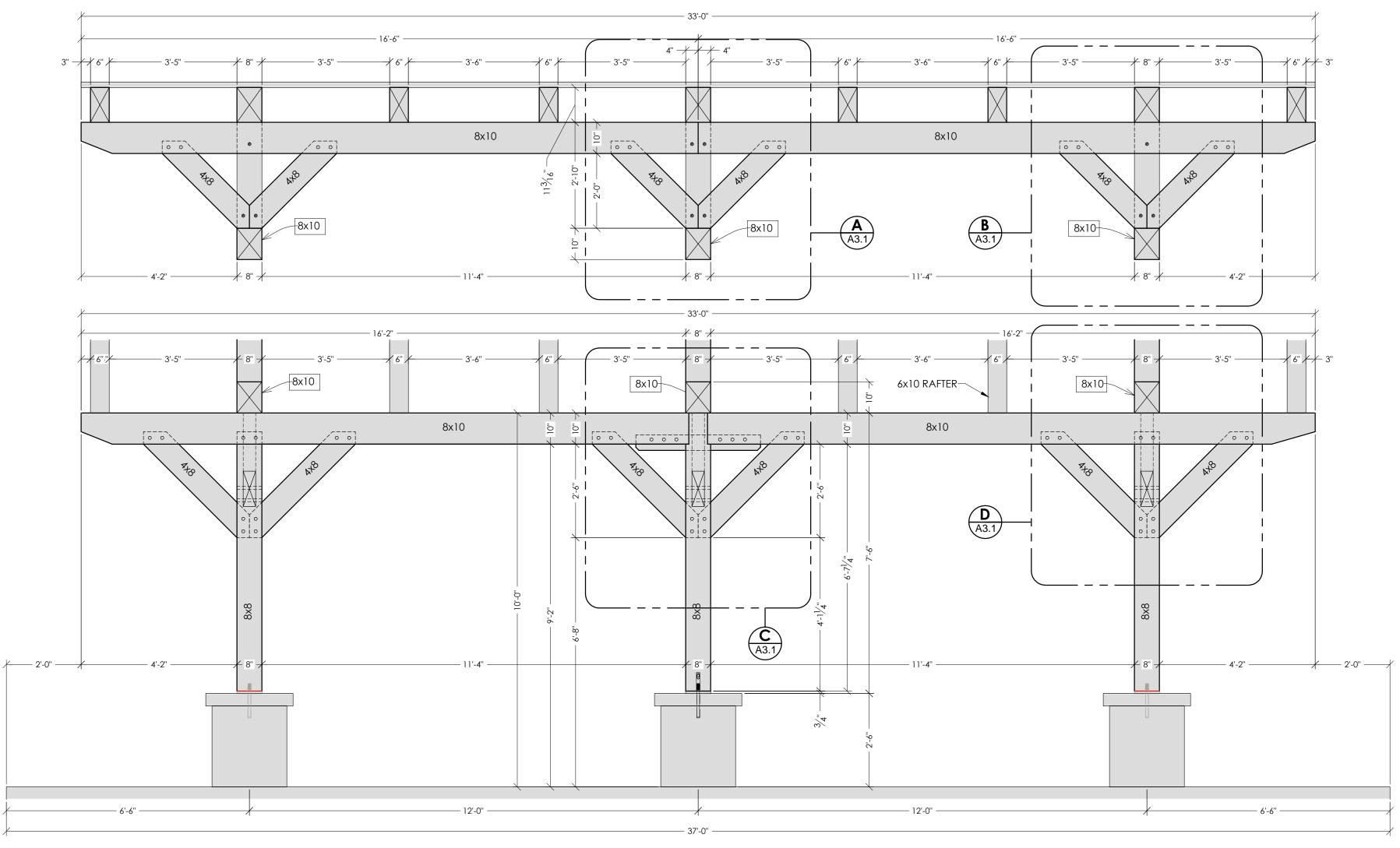


1/4" =	1'-0"		
FULL SIZE SCALE			
DRAWN BY	CJK		
DATE	MAY 2013		
GEC FILE NO.	2-0313-101		
SHEET NO.			
A2	.0		

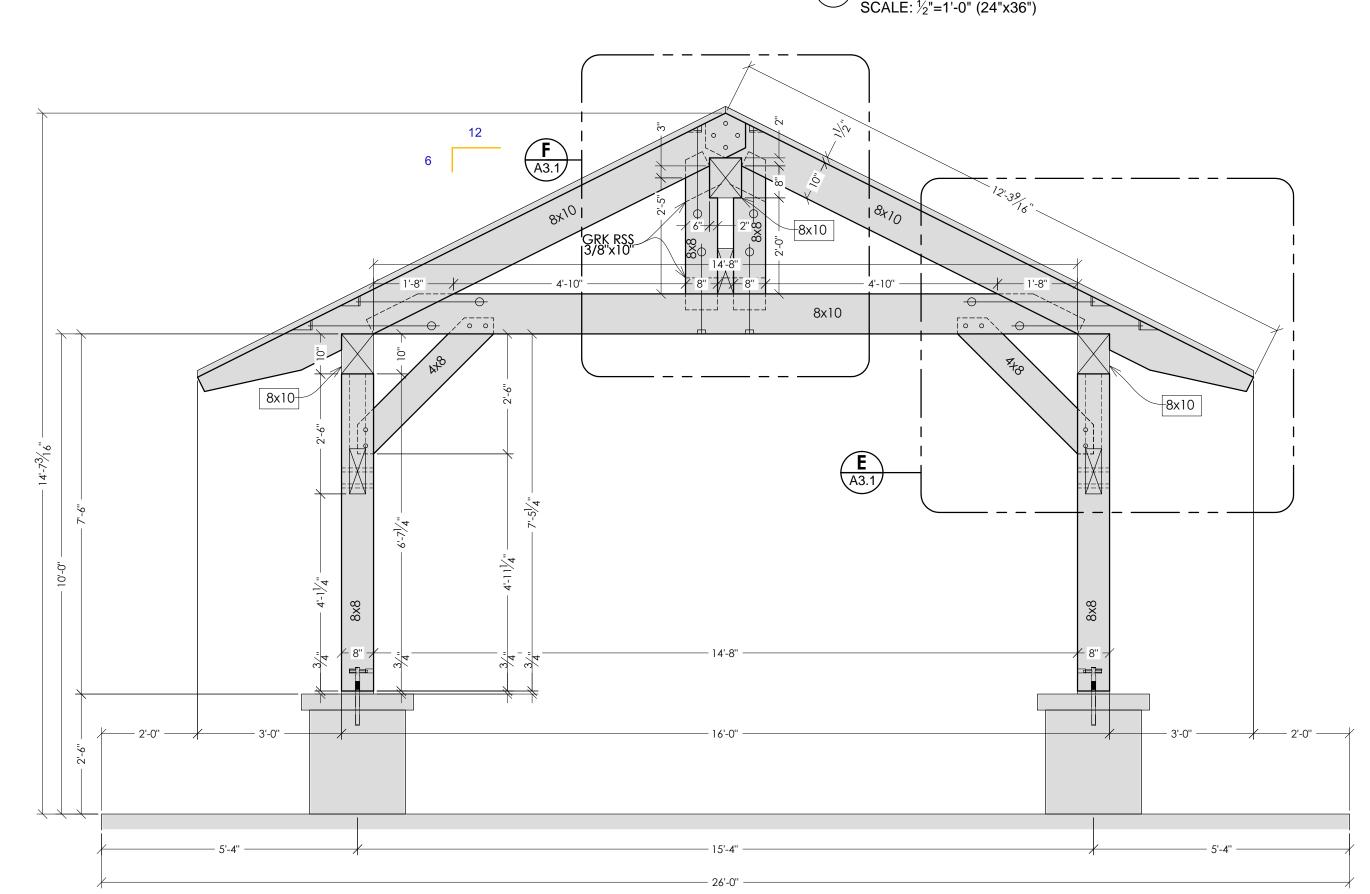


3 SOUTH ELEVATION 1/4" = 1'-0"

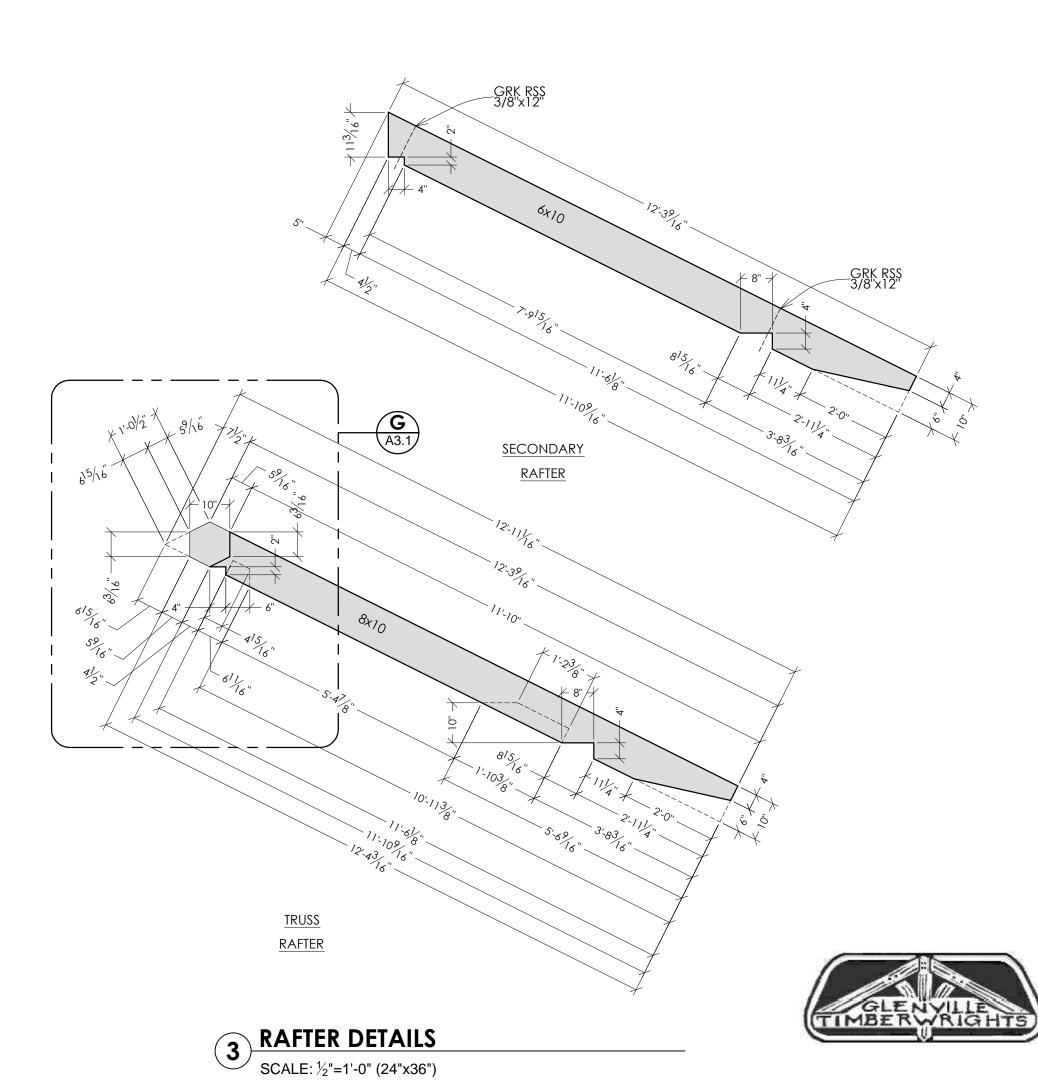
4 WEST ELEVATION
1/4" = 1'-0"



COLUMN & RIDGE SECTION SCALE: ½"=1'-0" (24"x36")



2 TRUSS SECTION
SCALE: ½"=1'-0" (24"x36")





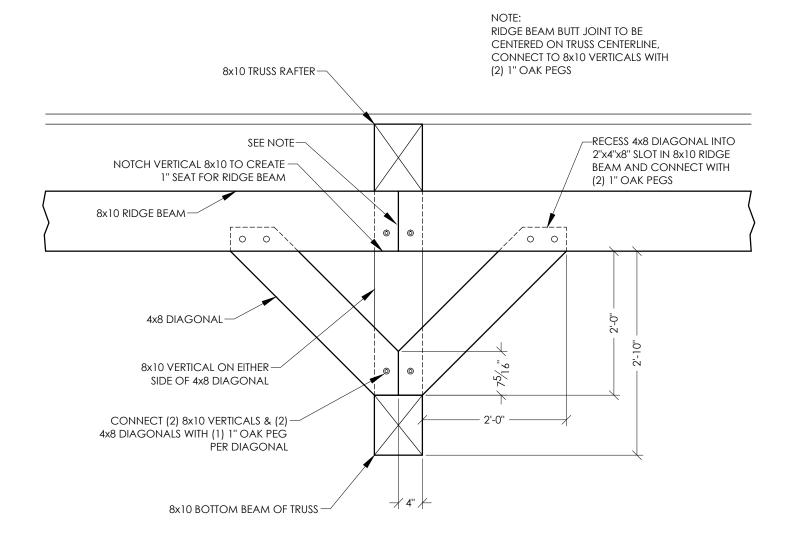
eneral Engineering Company

BUILDING SECTIONS Park Shelter - 22' x 33'

SCALE

DRAWN BY SRR DATE May 2013 GEC FILE NO. 2-0313-101 SHEET NO.

A3.0



RECESS 8x8 COLUMN INTO 2"x4"x8" SLOT IN 8x10 BEAM AND CONNECT WITH (2) 1" OAK PEGS

/ o o |

—RECESS 4x8 DIAGONAL INTO 2"x4"x8"

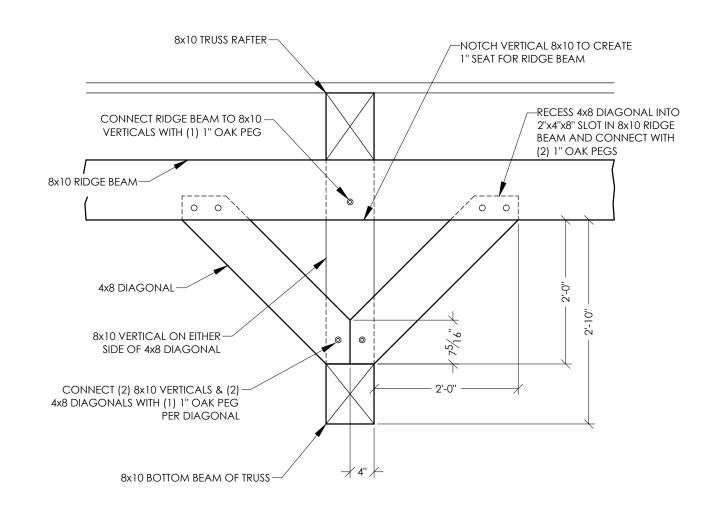
SLOT IN 8x 8 COLUMN AND CONNECT WITH (2) 1" OAK PEGS

-8x8 COLUMN, TYP.

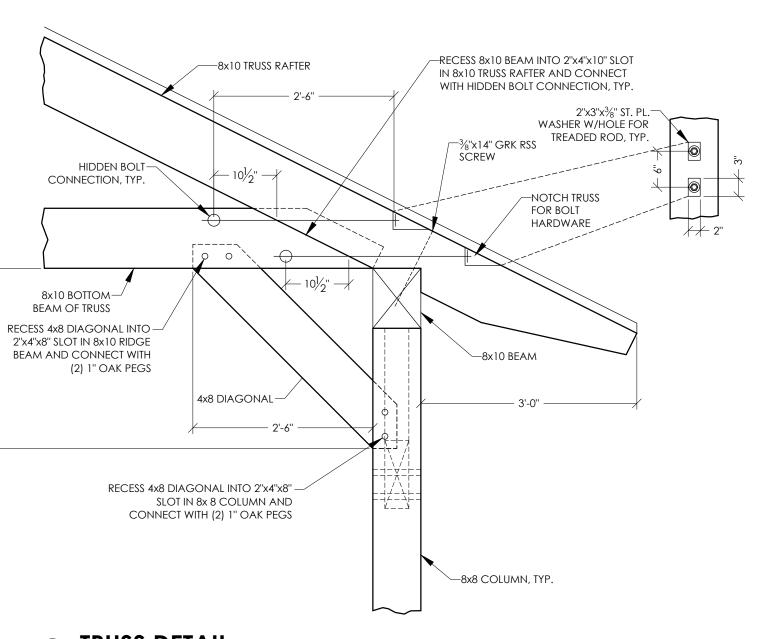
_RECESS 4x8 DIAGONAL INTO

2"x4"x8" SLOT IN 8x10 BEAM AND

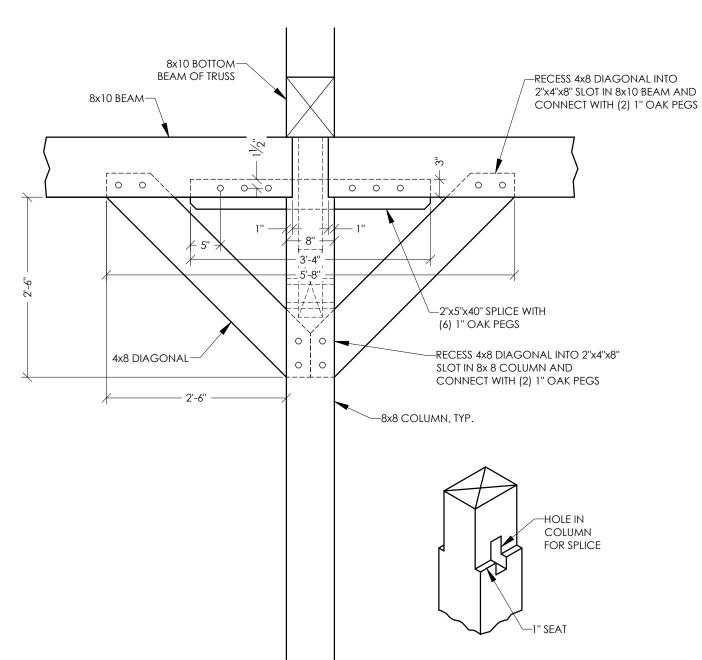
CONNECT WITH (2) 1" OAK PEGS



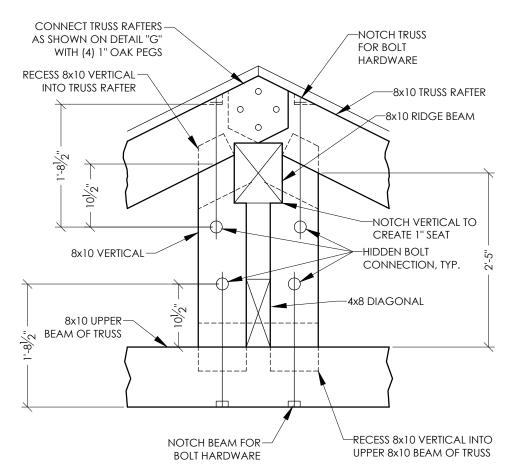
RIDGE DETAIL SCALE: 3/4"=1'-0" (24"x36")



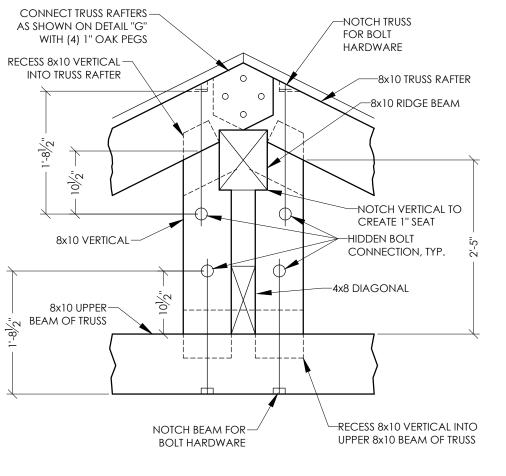
(E) TRUSS DETAIL SCALE: ³/₄"=1'-0" (24"x36")



C COLUMN DETAIL SCALE: 3/4"=1'-0" (24"x36")



F TRUSS DETAIL SCALE: 3/4"=1'-0" (24"x36")



Company

Engineering

eneral

DETAIL × 33'

COLUMN Shelter - 22'

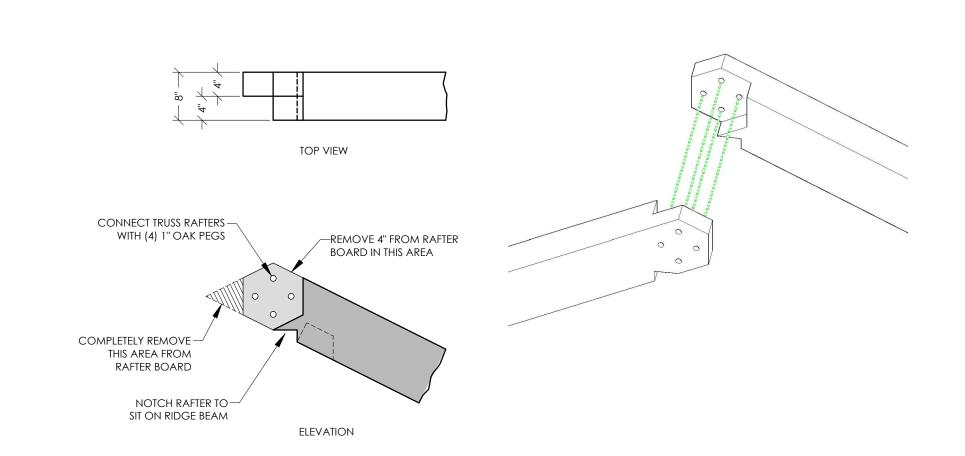
TRUSS & Park

unty Dept. of Public Dane County, WI

SCALE

DRAWN BY SRR DATE May 2013 GEC FILE NO. 2-0313-101 SHEET NO.

A3.1



RIDGE DETAIL
SCALE: 3/11 ALOT (5

SCALE: 3/4"=1'-0" (24"x36")

8x10 BEAM-

[00

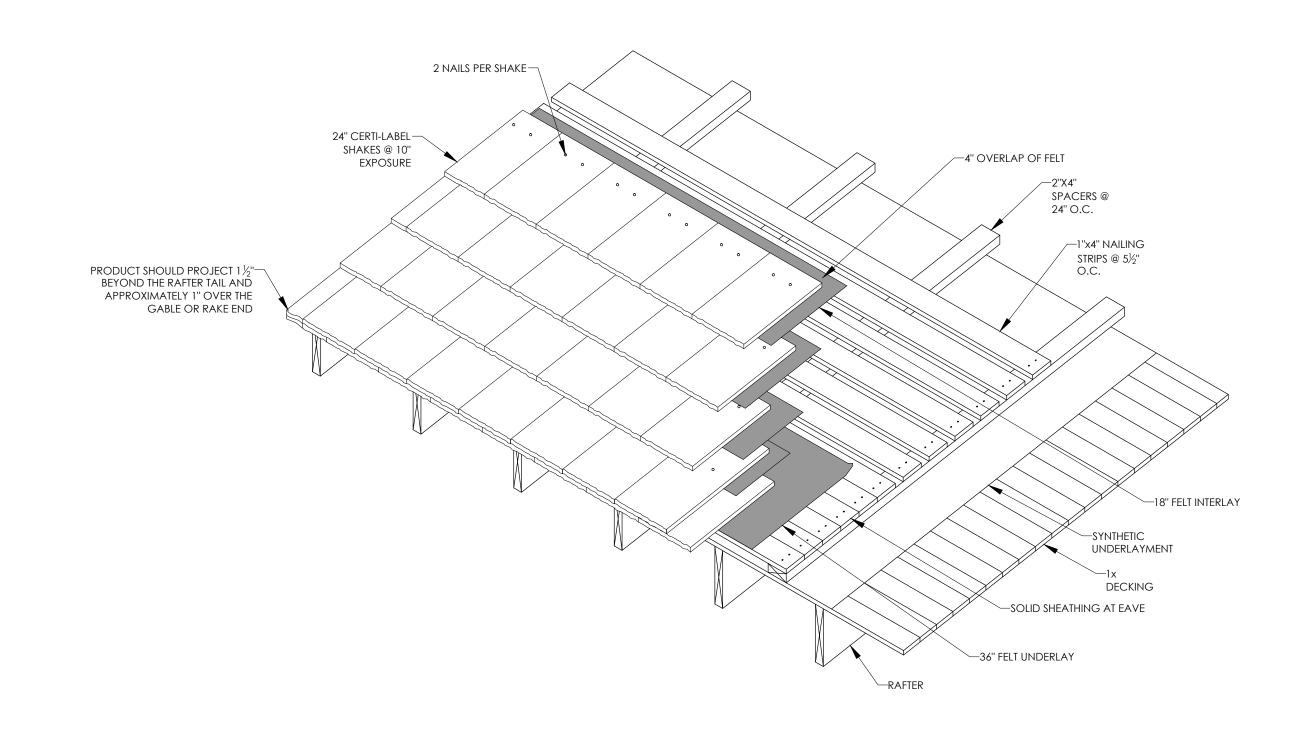
(D) COLUMN DETAIL

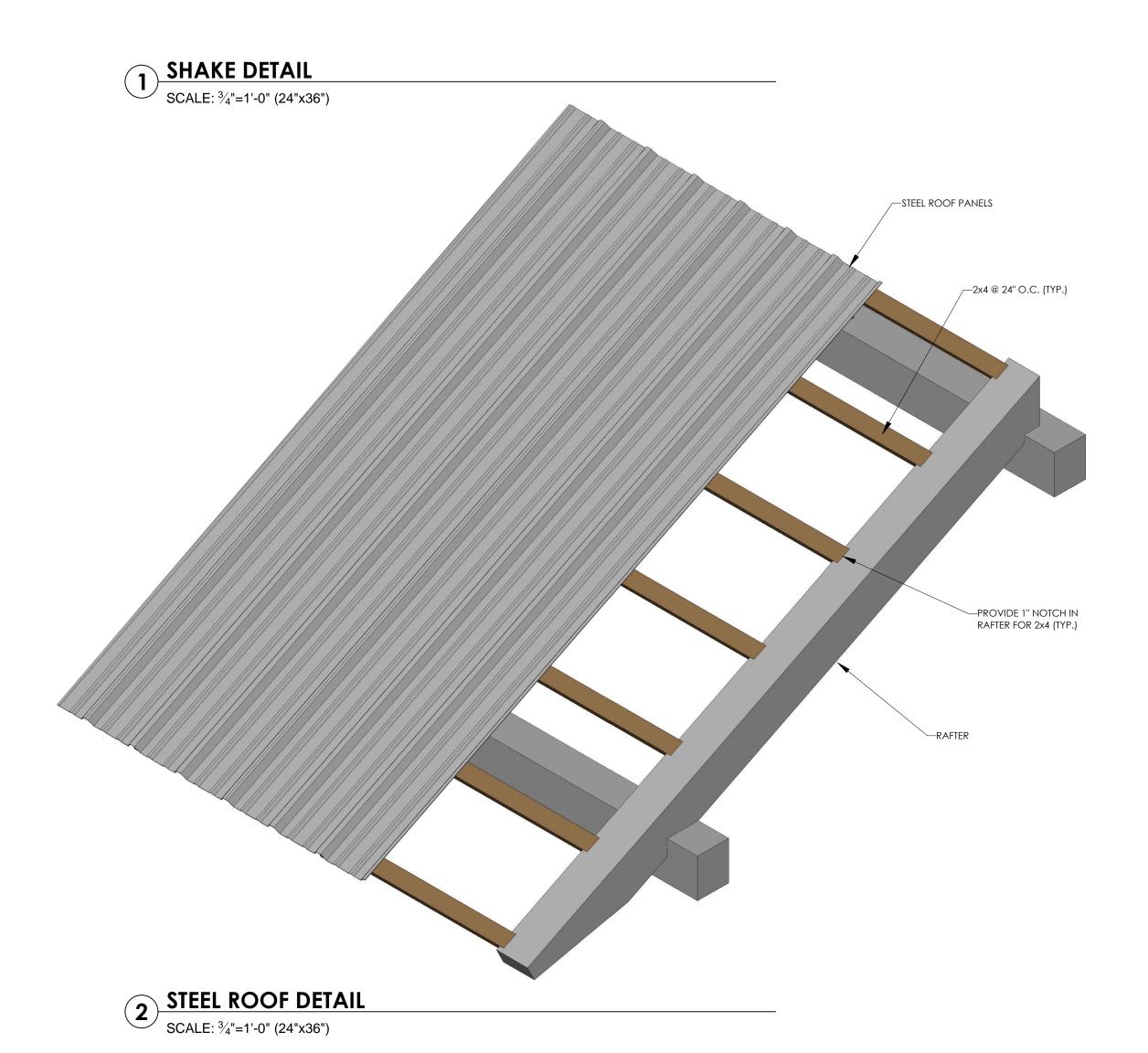
SCALE: 3/4"=1'-0" (24"x36")

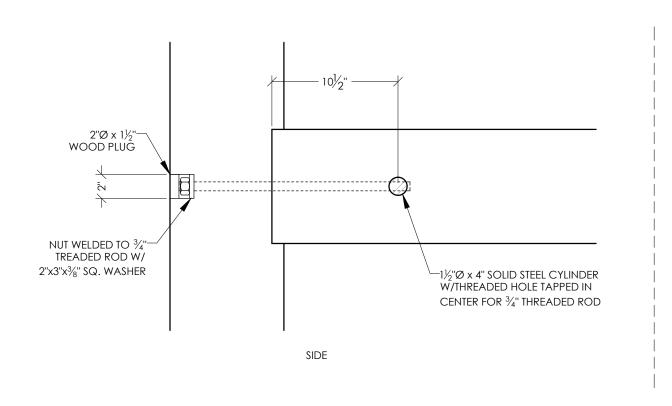
8x10 BOTTOM—

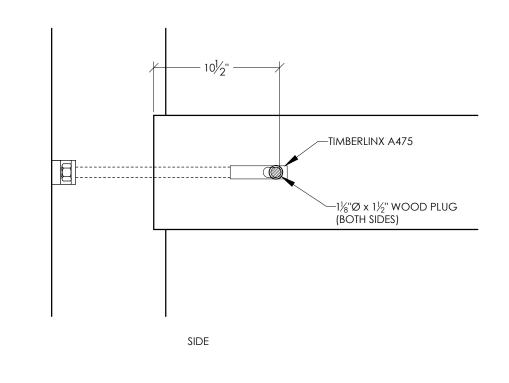
BEAM OF TRUSS

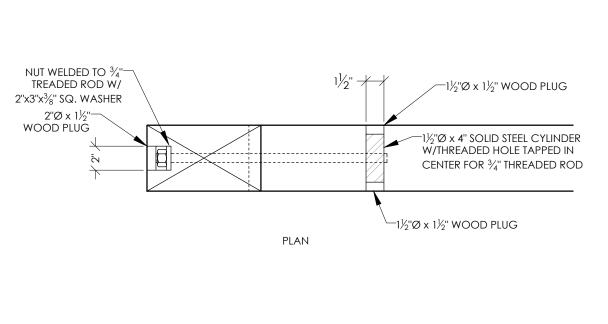
2'-6"

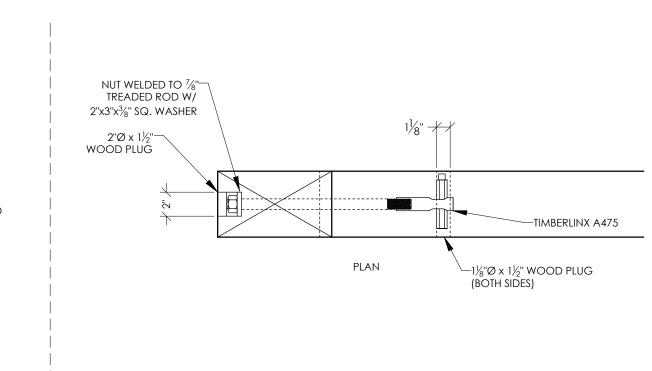




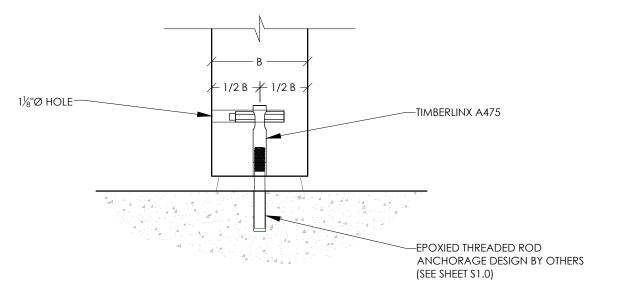




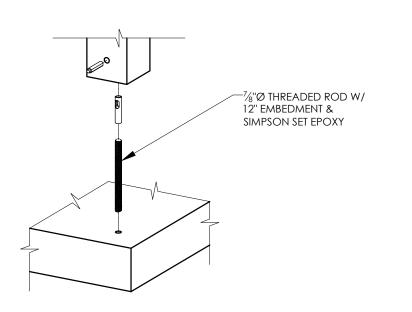




3 TYPICAL HIDDEN BOLT DETAIL SCALE: NONE



OR



4 TIMBERLINX A475 DETAIL SCALE: NONE



Company

Engineering

General

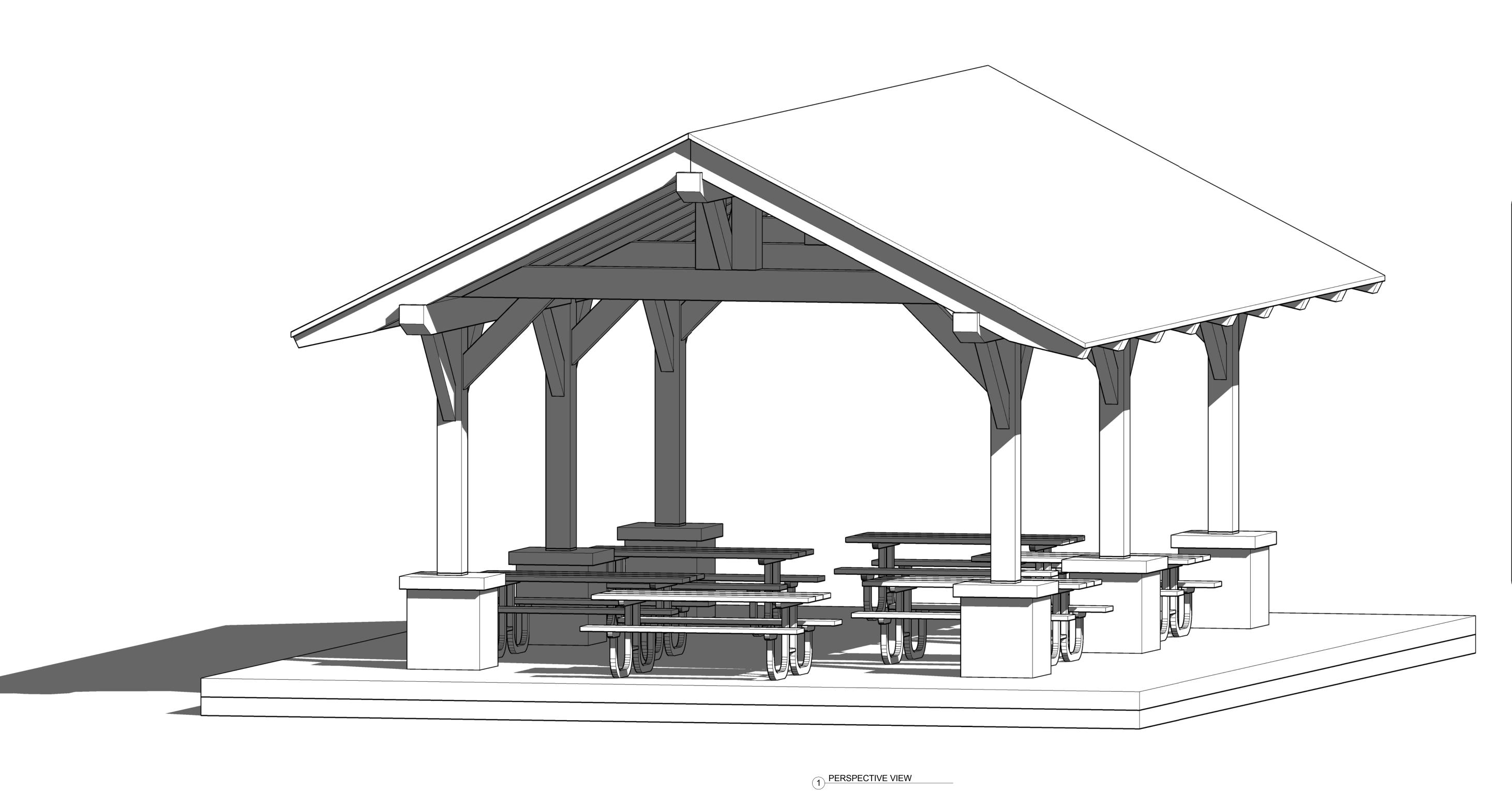
AISC DETAILS rk Shelter - 22' x 33' M Park

unty Dept. of Public Work Dane County, WI

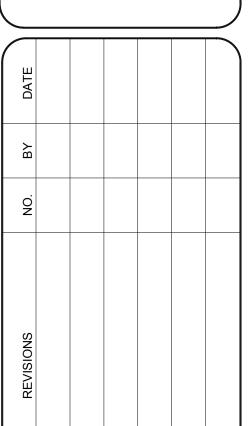
DRAWN BY SRR DATE May 2013

SCALE

GEC FILE NO. 2-0313-101 SHEET NO. **A3.2**







FULL SIZE SCALE

A4.0

MAY 2013

2-0313-101

DRAWN BY

GEC FILE NO.

SHEET NO.

County Dept. of Public Works ARK SHELTER - 22' X 33' RSPECTIVE VIEW PEF

General Engineering Company



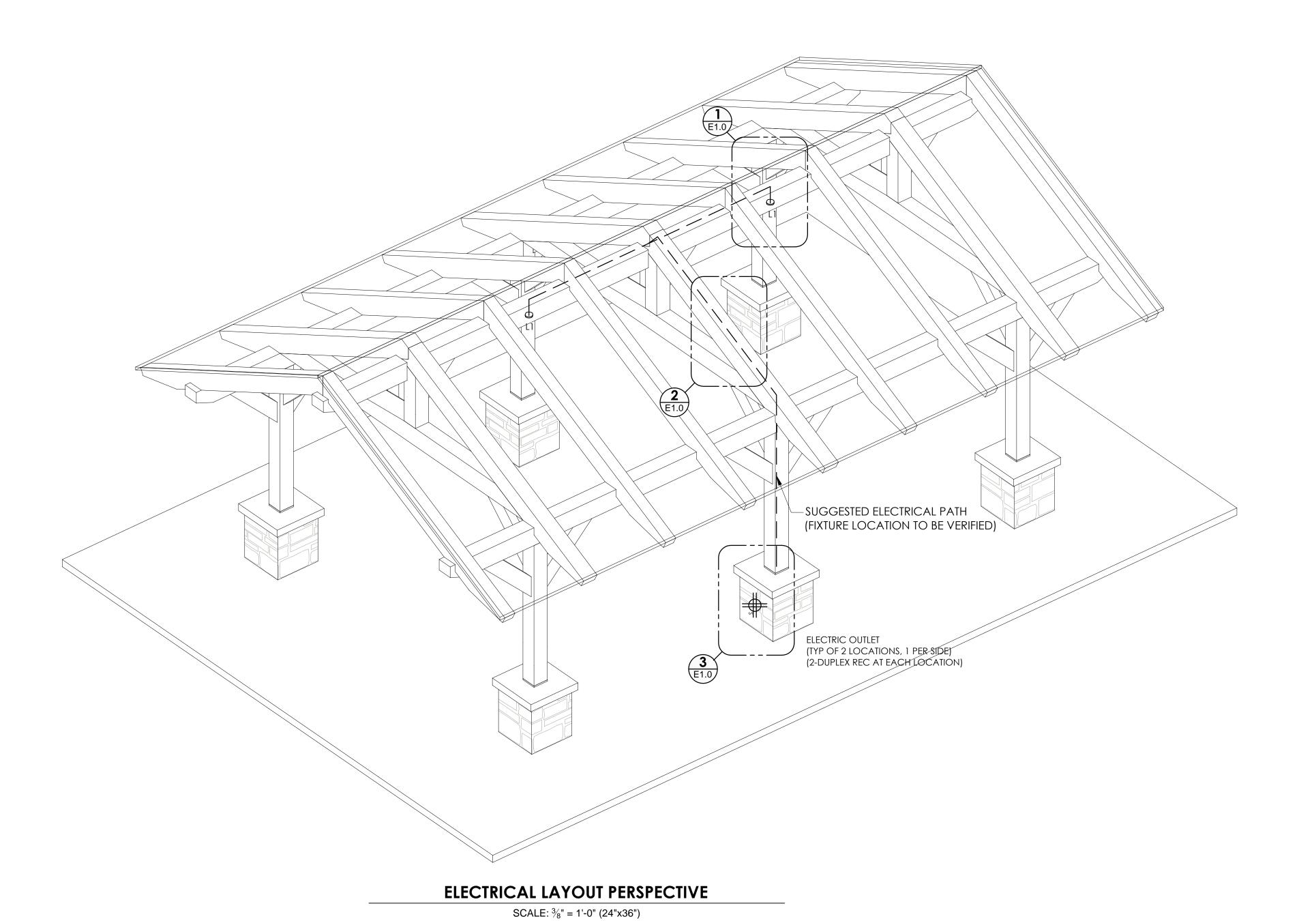
DANE COUNTY, WI

General Engineering Company

SCALE

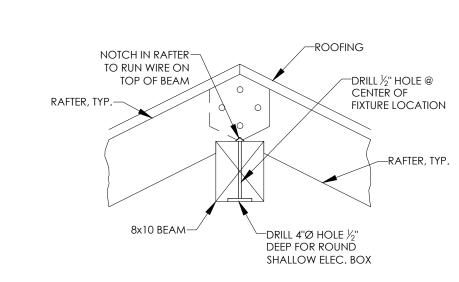
DRAWN BY SRR DATE May 2013 GEC FILE NO. 2-0313-101

SHEET NO. E1.0



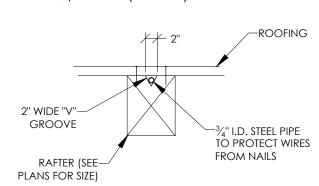
NOTES:

- 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.

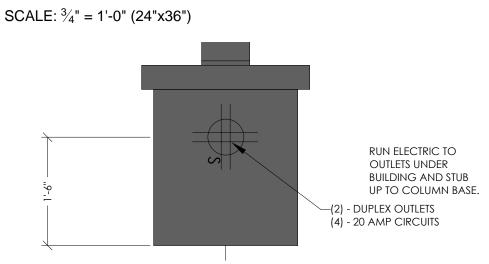




SCALE: $\frac{3}{4}$ " = 1'-0" (24"x36")



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



(4 TOTAL) 3 ELECTRICAL OUTLET @ BASE DETAIL

SCALE: 3/4" = 1'-0" (24"x36")



Festge County Park Location Map

