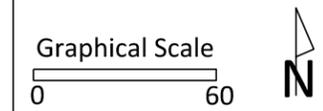


# BLACKHAWK PARK

City of Madison  
Department of Public Works  
**PARKS DIVISION**

City-County Building, Suite 104  
210 Martin Luther King, Jr. Blvd.  
PO Box 2987  
Madison, WI 53701-2987

*play*  
**MADISON  
PARKS**



PROJECT:  
**BLACKHAWK PARK  
SHELTER**

**BLACKHAWK PARK  
741 BEAR CLAW WAY  
MADISON, WI**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: MRS	07-17-13
Approved by:	07-17-13

PUBLIC WORKS PROJECT #: 7136

SHEET TITLE:  
**PROJECT LOCATION  
AND SITE ACCESS**

SHEET NUMBER:  
**1.1**

MAINTAIN PUBLIC ACCESS  
ALONG PATH DURING ALL  
CONSTRUCTION OPERATIONS

PROJECT LOCATION

EXISTING ASPHALT PATH

PROPOSED PARKING LANE  
CONSTRUCTION STAGING, SEE  
SPECIFICATIONS

CONSTRUCTION  
ACCESS ROUTE

EXISTING  
PLAYGROUND

MAINTAIN PUBLIC ACCESS

CONSTRUCTION ACCESS

PROPOSED TRACKING PAD

BEAR CLAW WAY

EXISTING  
BASKETBALL COURT

SUBSOIL AND TOPSOIL STAGING CAN ONLY BE  
WITHIN THE PROPOSED CONSTRUCTION  
BOUNDARY. NO SUBSOIL OR TOPSOIL STAGING  
CAN OCCUR OUTSIDE THESE LIMITS.

City of Madison  
Department of Public Works  
**PARKS DIVISION**

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PO Box 2987  
Madison, WI 53701-2987

*play*  
**MADISON  
PARKS**

Graphical Scale



PROJECT:

**BLACKHAWK PARK  
SHELTER**

**BLACKHAWK PARK  
741 BEAR CLAW WAY  
MADISON, WI**

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ITEM	DATE
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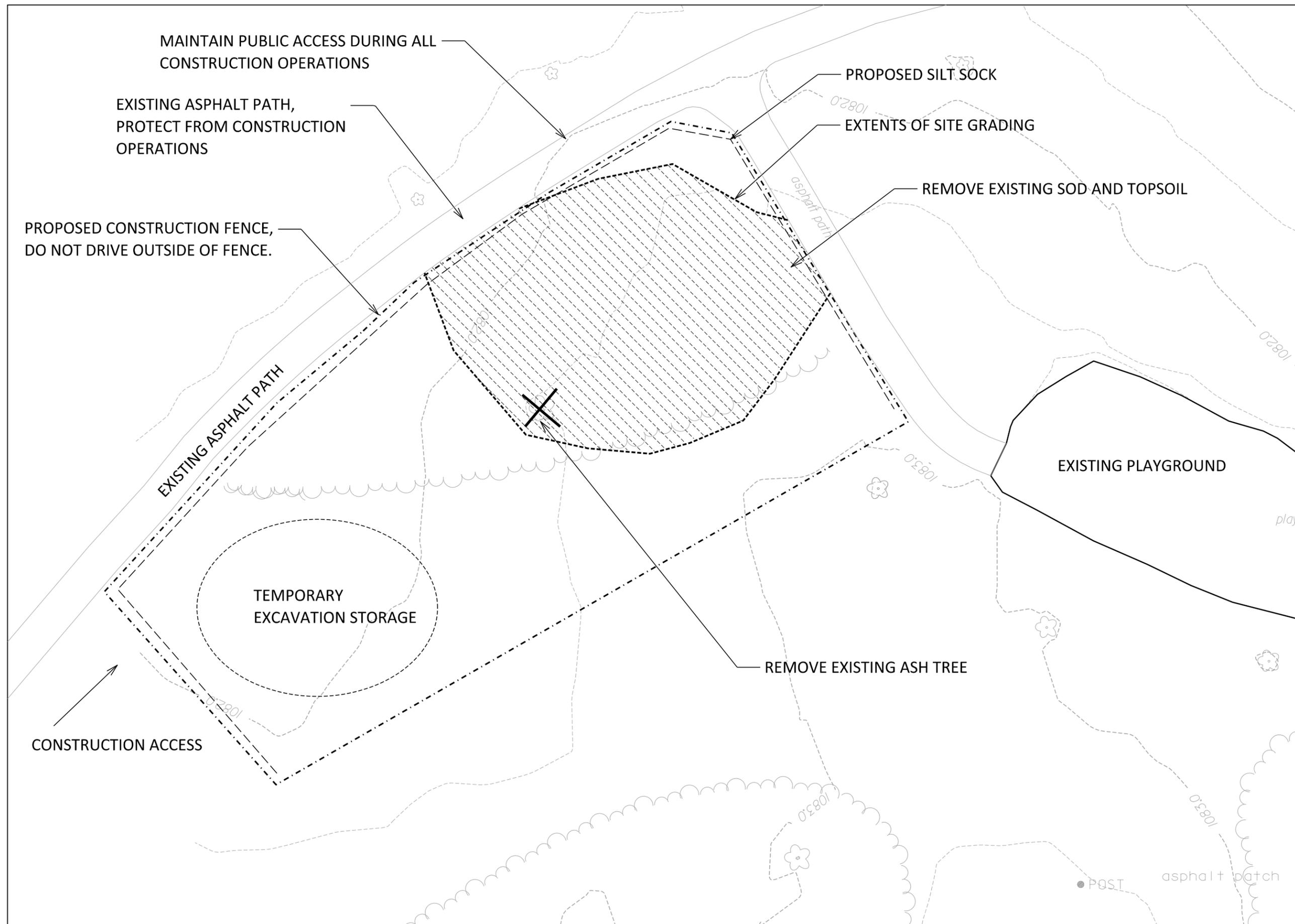
PUBLIC WORKS PROJECT #: 7136

SHEET TITLE:

**SITE DEMOLITION  
AND PROTECTION**

SHEET NUMBER:

**1.2**



Graphical Scale



PROJECT:

**BLACKHAWK PARK  
 SHELTER**

**BLACKHAWK PARK  
 741 BEAR CLAW WAY  
 MADISON, WI**

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ITEM	DATE
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Approved by:	07-17-13

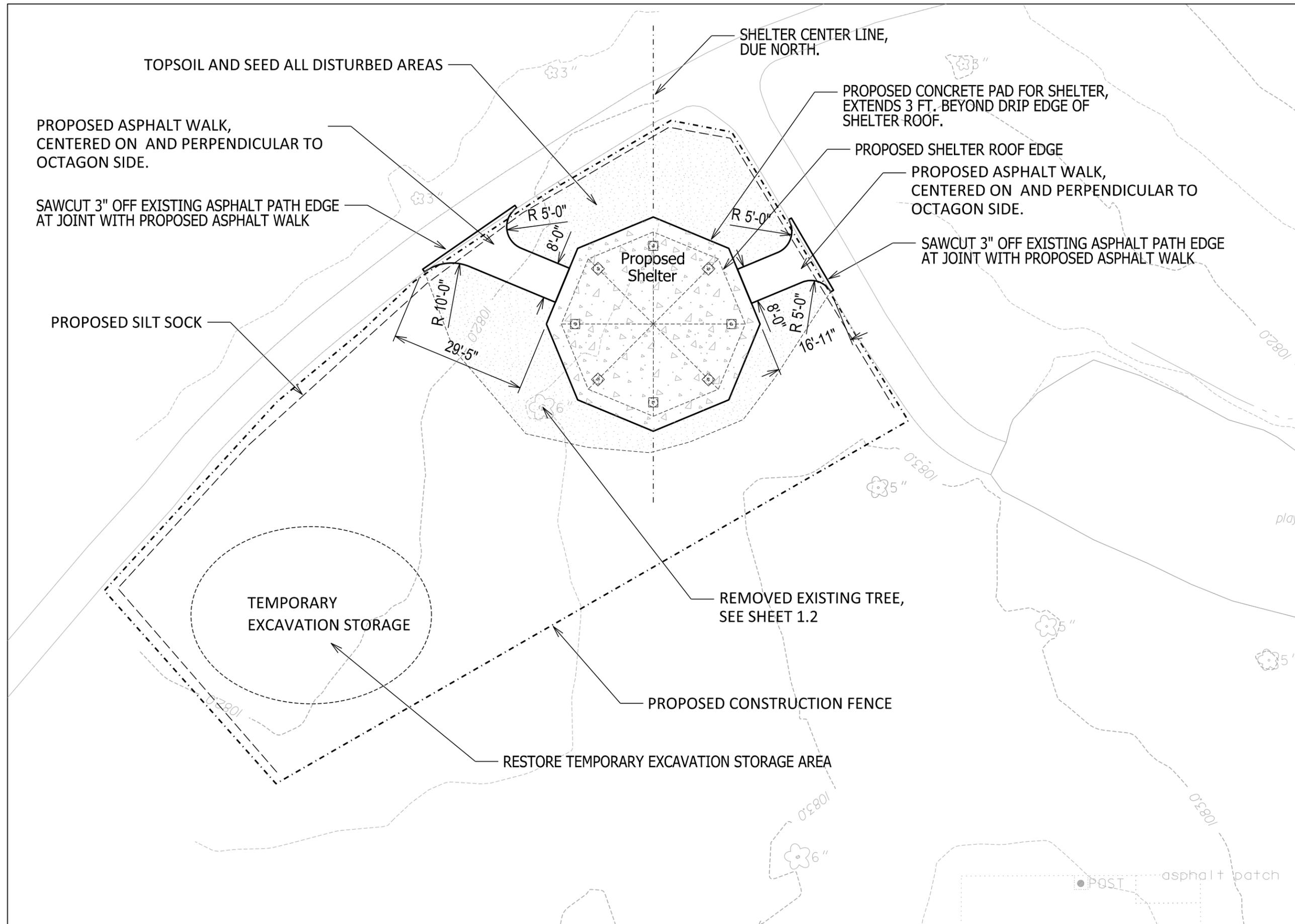
PUBLIC WORKS PROJECT #: 7136

SHEET TITLE:

**SITE PLAN**

SHEET NUMBER:

**1.3**



City of Madison  
Department of Public Works  
**PARKS DIVISION**

City-County Building, Suite 104  
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PO Box 2987  
Madison, WI 53701-2987

*play*  
**MADISON  
PARKS**

Graphical Scale



PROJECT:

**BLACKHAWK PARK  
SHELTER**

**BLACKHAWK PARK  
741 BEAR CLAW WAY  
MADISON, WI**

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ITEM	DATE
Drawn by: MRS	07-17-13
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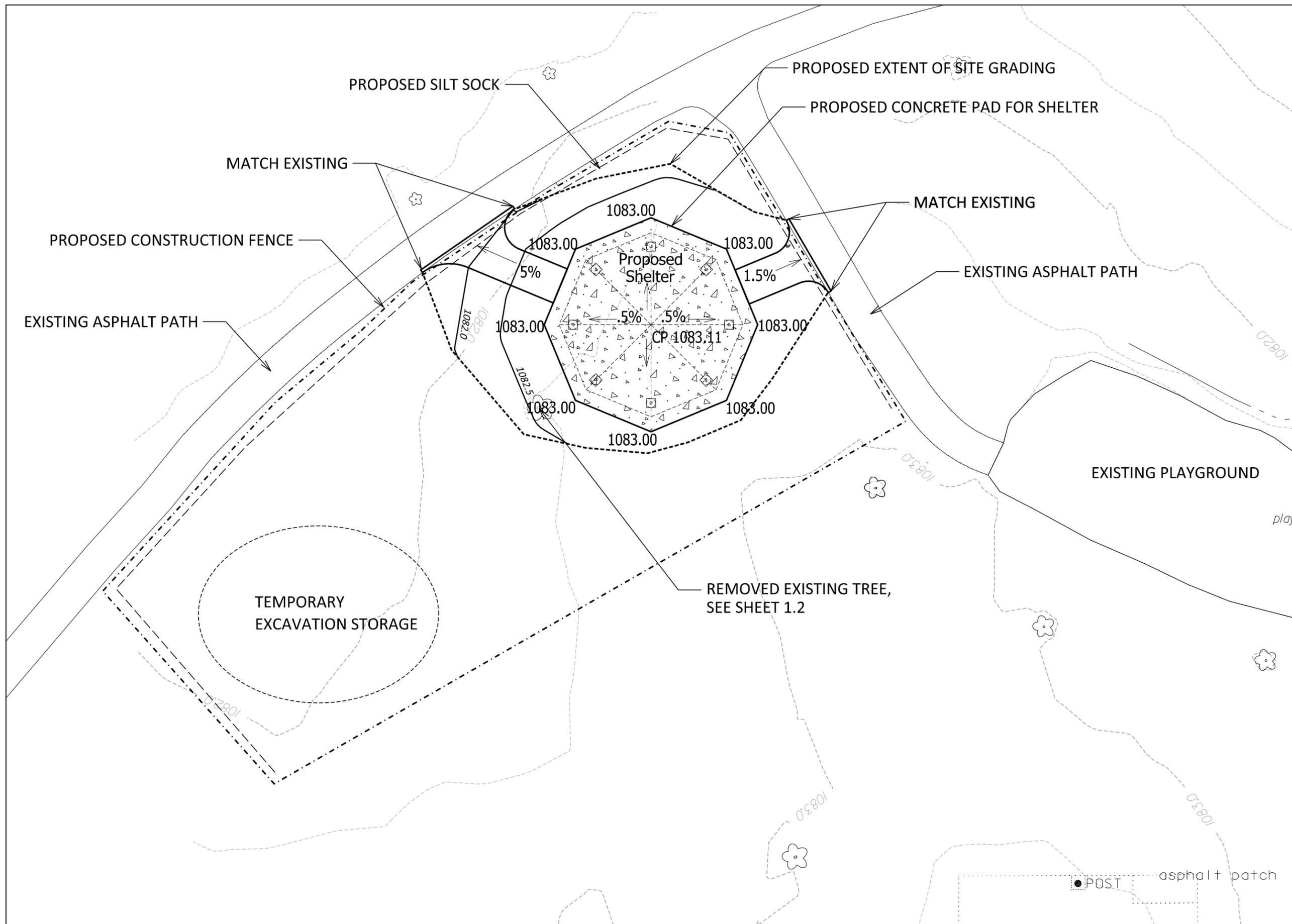
PUBLIC WORKS PROJECT #: 7136

SHEET TITLE:

**SITE GRADING**

SHEET NUMBER:

**1.4**



City of Madison  
Department of Public Works  
**PARKS DIVISION**

City-County Building, Suite 104  
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PROJECT:

**BLACKHAWK PARK  
SHELTER**

**BLACKHAWK PARK  
741 BEAR CLAW WAY  
MADISON, WI**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: MRS	07-17-13
Approved by:	07-17-13

PUBLIC WORKS PROJECT #: 7136

SHEET TITLE:  
**DESIGN  
COMPUTATIONS**

SHEET NUMBER:  
**1.5**

**BLACKHAWK PARK SHELTER - Earthwork Quantities**

City of Madison, WI Public Works Contract 7136  
Date Revised: 7/17/2013

**Notes:**

Positive volumes are cuts, negative volumes are fills.  
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

**Area ID# groups**

Sort	Grp	ID#	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	1		Topsoil Place	North area: Place topsoil on existing grass	Blackhawk_Survey2011-12-29.dtm	Blackhawk_Shelter_Pro1.dtm	693	varies	-189	-7.0	0%	-7.0
2.1	2		Topsoil Place	South area: Place topsoil on existing grass	Blackhawk_Survey2011-12-29.dtm	Blackhawk_Shelter_Pro1.dtm	1139	varies	-224	-8.3	0%	-8.3
3.1	3		Topsoil Excavate	Shelter: strip 4in topsoil	n/a	n/a	1601	0.33	534	19.8	0%	19.8
3.2	3		Subsoil Excavate	Shelter: remove subsoil to bottom of gravel base	Ex-4in.dtm	Pro-11in.dtm	1601	varies	257	9.5	0%	9.5
3.3	3		Subsoil Place	Shelter: place subsoil to bottom of gravel base	Ex-4in.dtm	Pro-11in.dtm	1601	varies	-36	-1.3	0%	-1.3
3.4	3		Gravel Place	Shelter: place 6in gravel to 6in outside edge of concrete	n/a	n/a	1601	-0.50	-801	-29.6	0%	-29.6
3.5	3		Concrete Place	Shelter: place 5in concrete	n/a	n/a	1529	-0.42	-637	-23.6	0%	-23.6
3.6	3		Topsoil Place	Shelter: place 5in topsoil over 6in wide gravel edge	n/a	n/a	72	-0.42	-30	-1.1	0%	-1.1
4.1	4		Topsoil Excavate	West path: strip 4in topsoil	n/a	n/a	247	0.33	82	3.0	0%	3.0
4.2	4		Subsoil Excavate	West path: remove subsoil to 8in below finished asphalt	Ex-4in.dtm	Pro-8in.dtm	247	varies	22	0.8	0%	0.8
4.3	4		Subsoil Place	West path: place subsoil to 8in below finished asphalt	Ex-4in.dtm	Pro-8in.dtm	247	varies	-29	-1.1	0%	-1.1
4.4	4		Gravel Place	West path: place 6in gravel to 6in outside edge of asphalt	n/a	n/a	247	-0.50	-124	-4.6	0%	-4.6
4.5	4		Ashpalt Place	West path: place 2in asphalt	n/a	n/a	221	-0.17	-37	-1.4	0%	-1.4
4.6	4		Topsoil Place	West path: place 2in topsoil over 6in wide gravel edge	n/a	n/a	26	-0.17	-4	-0.2	0%	-0.2
5.1	5		Topsoil Excavate	East path: strip 4in topsoil	n/a	n/a	163	0.33	54	2.0	0%	2.0
5.2	5		Subsoil Excavate	East path: remove subsoil to 8in below finished asphalt	Ex-4in.dtm	Pro-8in.dtm	163	varies	28	1.0	0%	1.0
5.3	5		Subsoil Place	East path: place subsoil to 8in below finished asphalt	Ex-4in.dtm	Pro-8in.dtm	163	varies	0	0.0	0%	0.0
5.4	5		Gravel Place	East path: place 6in gravel to 6in outside edge of asphalt	n/a	n/a	163	-0.50	-82	-3.0	0%	-3.0
5.5	5		Ashpalt Place	East path: place 2in asphalt	n/a	n/a	149	-0.17	-25	-0.9	0%	-0.9
5.6	5		Topsoil Place	East path: place 2in topsoil over 6in wide gravel edge	n/a	n/a	14	-0.17	-2	-0.1	0%	-0.1
TOTALS									-1242	-46.0		-46.0

**BLACKHAWK PARK SHELTER - Earthwork Quantities**

Date Revised: 7/17/2013

Summary of stone (gravel) and soil quantities in the Bid Table.  
Derived from more detailed spreadsheet available from Parks Div

**Computation Summary**

Positive volumes are cuts (material available), negative volumes are fills (material needed)  
Calculations assumes 4" of existing strippable topsoil, and placement of 6" of topsoil.

Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Ashpalt Place	-2.3
Concrete Place	-23.6
Gravel Place	-37.2
Subsoil Excavate	11.4
Subsoil Place	-2.4
Topsoil Excavate	24.8
Topsoil Place	-16.7
<b>Grand Total</b>	<b>-46.0</b>

**Reorganized into Bid Table Items:**

Bid Item #20101 Excavation Cut	Subsoil Excavate + Topsoil Excavate
Bid Item #20201 Fill	Subsoil Place + Subsoil Excavate
Bid Item #20221 Topsoil	= Topsoil Place

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## DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2-2.1	ANCHOR AND FOOTING LAYOUT / DETAILS
3-3.1	STRUCTURAL FRAMING PLAN
4-4.1	FRAME CONNECTION DETAILS
5-5.2	ROOF LAYOUT
6	ROOF CONNECTION DETAILS

## MANUFACTURER NOTES:

### MATERIALS:

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE B)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653
ANCHOR BOLTS	SEE SHEET 2.1

### GENERAL NOTES:

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. POLIGON MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, POLIGON MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.

### FABRICATOR APPROVALS:

CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010  
 CITY OF LOS ANGELES, CA APPROVED FABRICATOR #1596  
 CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SP06-0033  
 CITY OF HOUSTON, TX APPROVED FABRICATOR #470  
 CLARK COUNTY, NV APPROVED FABRICATOR #264  
 STATE OF UTAH APPROVED FABRICATOR 02008-14

### CERTIFICATES:

MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 12-0905.07  
 PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

## DESIGN CRITERIA:

### GENERAL:

2009 INTERNATIONAL BUILDING CODE  
 OCCUPANCY CATEGORY: II

### DEAD LOAD:

ROOF DEAD LOAD: 6 PSF  
 FRAME DEAD LOAD: SELF WEIGHT

### LIVE LOAD:

ROOF LIVE LOAD: 20 PSF

### SNOW DESIGN DATA:

GROUND SNOW LOAD (Pg): 30 PSF  
 FLAT ROOF SNOW LOAD (Pf): 25 PSF  
 SNOW EXPOSURE FACTOR (Ce): 1.0  
 SNOW LOAD IMPORTANCE FACTOR (Is): 1.0  
 THERMAL FACTOR (Ct): 1.2

### WIND DESIGN DATA:

BASIC WIND SPEED (V): 90 MPH  
 GUST EFFECT FACTOR (G): 0.85  
 WIND IMPORTANCE FACTOR (Iw): 1.0  
 INTERNAL PRESSURE COEFFICIENT (GCpi): 0  
 WIND EXPOSURE: C

### SEISMIC DESIGN DATA:

STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE  
 SEISMIC IMPORTANCE FACTOR (Ie): 1.0  
 SEISMIC DESIGN CATEGORY: C  
 SEISMIC SITE CLASS: D  
 SEE CALCULATIONS FOR ADDITIONAL DATA

### ADDITIONAL CRITERIA:

NONE



IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS (AND FOUNDATION DESIGN IF APPLICABLE) DETAILED WITHIN THESE DRAWINGS.

PROJECT NAME: BLACKHAWK PARK

PROJECT LOCATION: MADISON, WI

BUILDING TYPE: OTC 40

ROOF TYPE: STANDING SEAM OVER T & G

JOB NUMBER: 50339

PRINT DATE: 5/7/2013  
 SCALE: 1:96  
 DRAWN BY: briste  
 REV LEVEL: A  
 CREATION DATE: 4/14/2013  
 JOB NO: 50339  
 CAD MODEL: OTC-40-IGSS-B2-50339

PRINT DATE: 5/7/2013

DRAWN BY: briste

CREATION DATE: 4/14/2013

PROJECT: BLACKHAWK PARK

SHEET

CS

PROJECT LOCATION: MADISON, WI

DRAWING: COVER SHEET

PROJECT: BLACKHAWK PARK

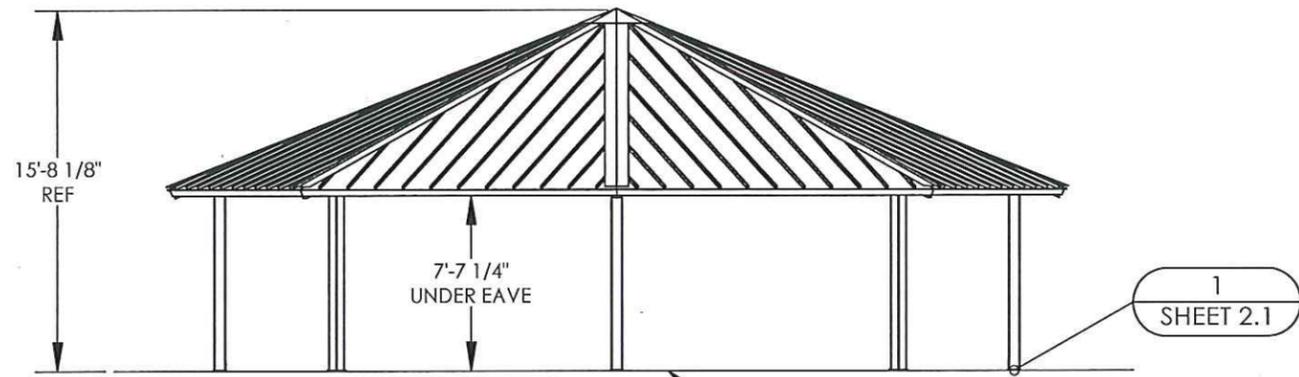
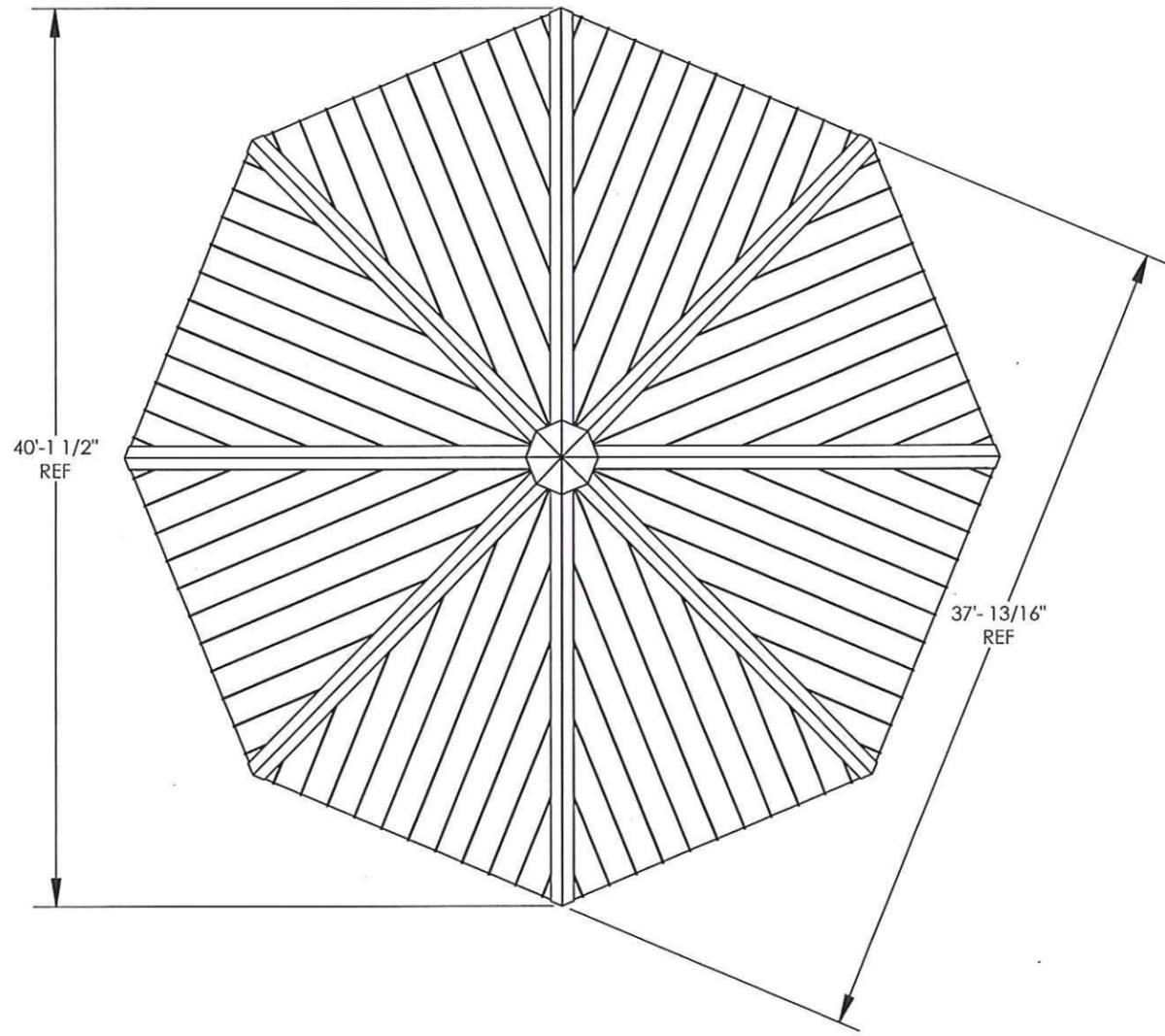
PROJECT LOCATION: MADISON, WI

DRAWING: COVER SHEET

SHEET

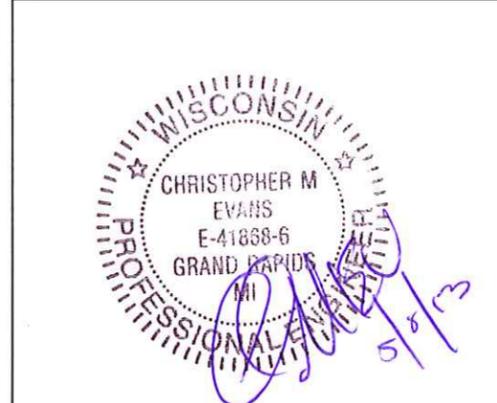
CS

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FINISH GRADE  
(ASSUMED AT CONSTAN ELEVATION  
UNLESS OTHERWISE NOTED)

1  
SHEET 2.1



PROJECT:	BLACKHAWK PARK	CREATION DATE:	4/4/2013	DRAWN BY:	briste	PRINT DATE:	5/7/2013
PROJECT LOCATION:	MADISON, WI	JOB NO.:	50339	REV LEVEL:	A	SCALE:	1:96
DRAWING:	ARCHITECTURAL ELEVATIONS	CAD MODEL:	OTC-40-TGSS-B2-50339				
SHEET	1						

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**FOUNDATION NOTES:**

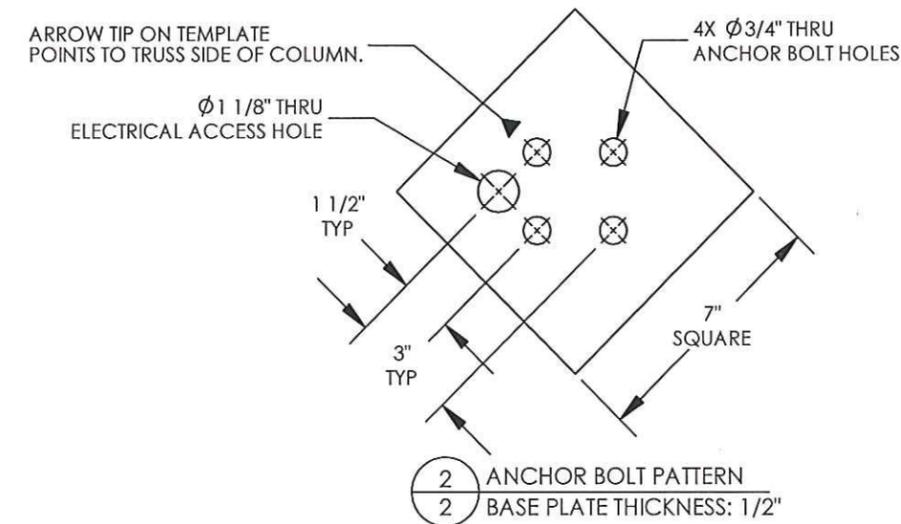
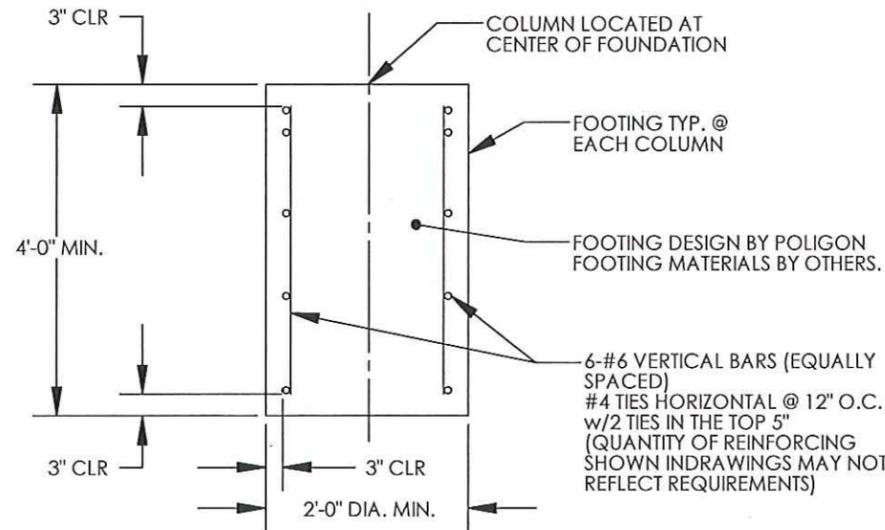
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE, AMERICAN CONCRETE INSTITUTE, AND ALL APPLICABLE STATE AND LOCAL ORDINANCES AND REQUIREMENTS.
- THE CONCRETE DESIGN IS BASED ON THE FOLLOWING PROPERTIES:
  - 28 DAY STRENGTH OF 3000 psi.
  - SLUMP OF 4" (+/-1").
- THE FOOTING SHALL BEAR ON COMPETENT UNDISTURBED SOIL OR 95% COMPACTED FILL. IF SIGNS OF ORGANIC MATERIAL, UNCONTROLLED FILL, CLAY OR SILT, HIGH WATER TABLE OR OTHER POSSIBLE DETRIMENTAL CONDITIONS ARE FOUND, INSTALLATION OF THE FOUNDATION MUST BE DISCONTINUED AND A SOILS ENGINEER CONTACTED.
- THE REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.
- IF FOOTING DEPTH SHOWN DOES NOT MEET LOCAL FROST REQUIREMENTS, THE DRILLED PIER FOOTING MAY BE EXTENDED. EXTEND VERTICAL BARS AS REQUIRED AND PROVIDE ADDITIONAL TIES TO MEET SPACING REQUIREMENTS AS SHOWN. IF LOCAL FROST DEPTH REQUIREMENTS ARE NOT MET AND NO DRILLED PIER FOOTING OPTION IS GIVEN, CONTACT POLIGON ENGINEERING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCAL FROST LINE DEPTH BELOW GRADE PRIOR TO CONSTRUCTION.

THE FOUNDATION DESIGN CONTAINED HEREIN IS SITE SPECIFIC, AND IS BASED ON ELECTRONIC CORRESPONDANCE REGARDING BLACKHAWK PARK SHELTER, MADISON, WI, BY CGC INC. DATED JANUARY 25, 2013.

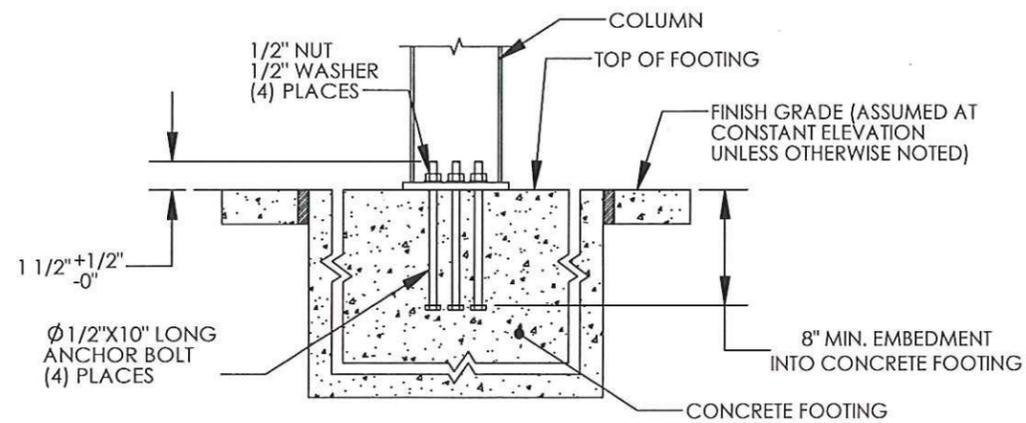
**ANCHOR BOLT NOTES - PINNED BASE STRUCTURES (ANCHOR BOLTS LOCATED WITHIN COLUMN):**

- ANCHOR BOLTS SHALL BE ASTM A307 (GRADE A) MATERIAL UNLESS OTHERWISE NOTED.
- ANCHOR BOLTS SHALL BE EITHER "HEADED" OR "THREADED WITH NUT" AS DEFINED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL (PART 14), 13th EDITION.
- HOOKEED ANCHOR BOLTS ARE NOT ACCEPTABLE.
- ACCURATE ANCHOR BOLT PLACEMENT IS CRITICAL. TO ENSURE THE ANCHOR BOLT LAYOUT MEETS THE DIMENSIONS REQUIRED ON THE DRAWINGS, SURVEY (OR MEASURE) THE LOCATION OF ALL ANCHOR BOLTS PRIOR TO POURING THE FOOTINGS. AN ADDITIONAL SURVEY (OR MEASUREMENT) SHOULD BE MADE AFTER THE FOOTINGS ARE POURED TO CONFIRM THE ANCHOR BOLTS DID NOT SHIFT DURING THE CONCRETE POUR. POLIGON STRONGLY RECOMMENDS USING ANCHOR BOLT TEMPLATES BECAUSE THEY SIGNIFICANTLY IMPROVE THE ACCURACY OF ANCHOR BOLT PLACEMENT. AN ANCHOR BOLT TEMPLATE IS PROVIDED WITH ANY PINNED BASE ANCHOR BOLT KIT PURCHASED FROM POLIGON.
- IF OUTSIDE CONSULTING ENGINEERS ARE DESIGNING THE FOUNDATIONS FOR THIS STRUCTURE, THEY MUST REFER TO POLIGON CALCULATIONS FOR MINIMUM CONCRETE PROPERTIES (COMPRESSIVE STRENGTH, EDGE DISTANCE, ETC.) REQUIRED FOR THE ANCHOR BOLT DESIGN.
- ELECTRICAL ACCESS HOLE IS ALWAYS LOCATED IN THE COLUMN BASE PLATE AS SHOWN. BE SURE TO KEEP THE ANCHOR BOLT TEMPLATE PROPERLY ORIENTED WHEN ELECTRICAL ACCESS TO THE COLUMN IS REQUIRED. TEMPLATE MUST BE REMOVED BEFORE INSTALLING COLUMNS.

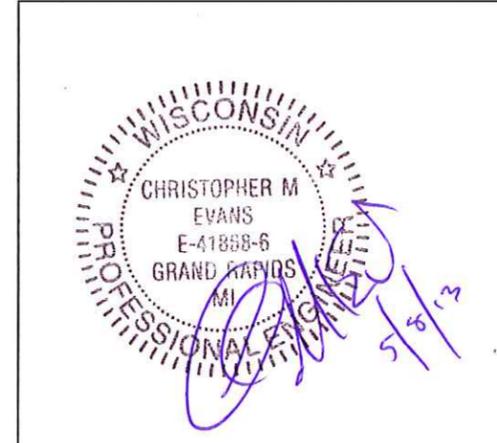
**DRILLED PIER FOOTING OPTION**



**ANCHOR BOLT SUBSTITUTION**  
 THE FOLLOWING EPOXY ANCHORS MAY BE SUBSTITUTED FOR THE CAST IN PLACE ANCHOR BOLTS ABOVE:  
 -HILTI HIT-HY 150 MAX-SD ADHESIVE w/ Ø1/2" HAS ROD WITH A MINIMUM 6" EMBEDMENT.  
 -SIMPSON EPOXY-TIE (SET) ADHESIVE w/ Ø1/2" ALL-THREAD RODS (ASTM A307) WITH MINIMUM 6" EMBEDMENT.

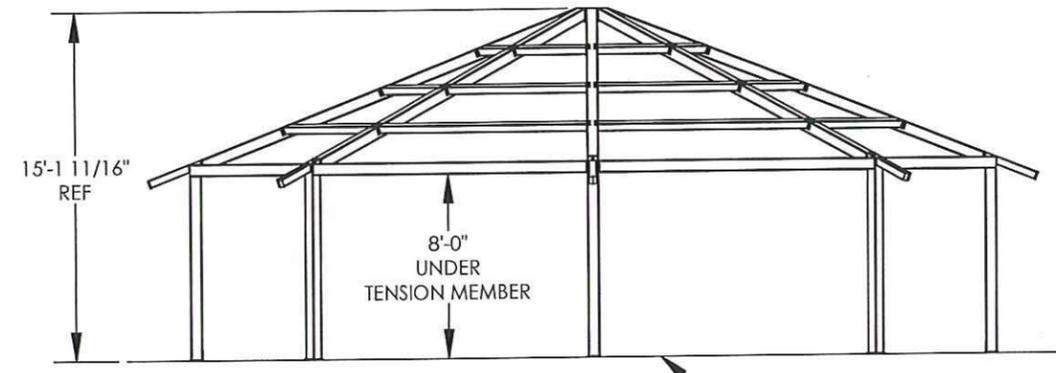
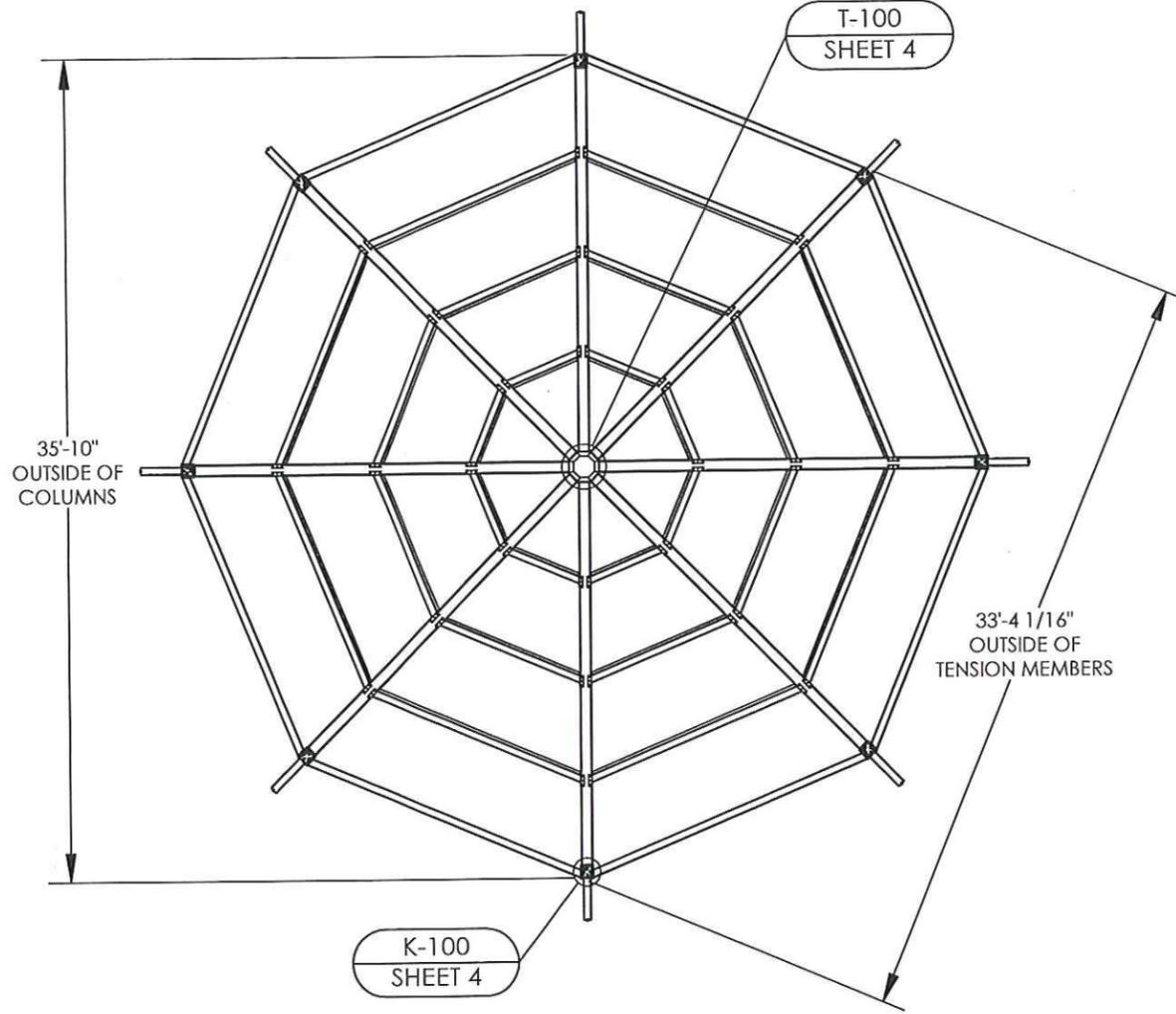


1 ANCHOR BOLT DETAIL

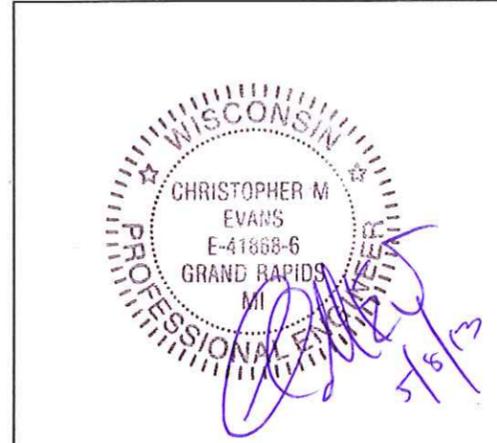


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PROJECT:	BLACKHAWK PARK	PRINT DATE:	5/7/2013
PROJECT LOCATION:	MADISON, WI	SCALE:	1:5
DRAWING:	ANCHOR AND FOOTING DETAILS	DRAWN BY:	briste
		REV LEVEL:	A
		CREATION DATE:	4/4/2013
		JOB NO.:	50339
		CAD MODEL:	OTC-40-TGSS-B2-50339
		www.poligon.com	(616)399-1963
		by PORTERCORP	
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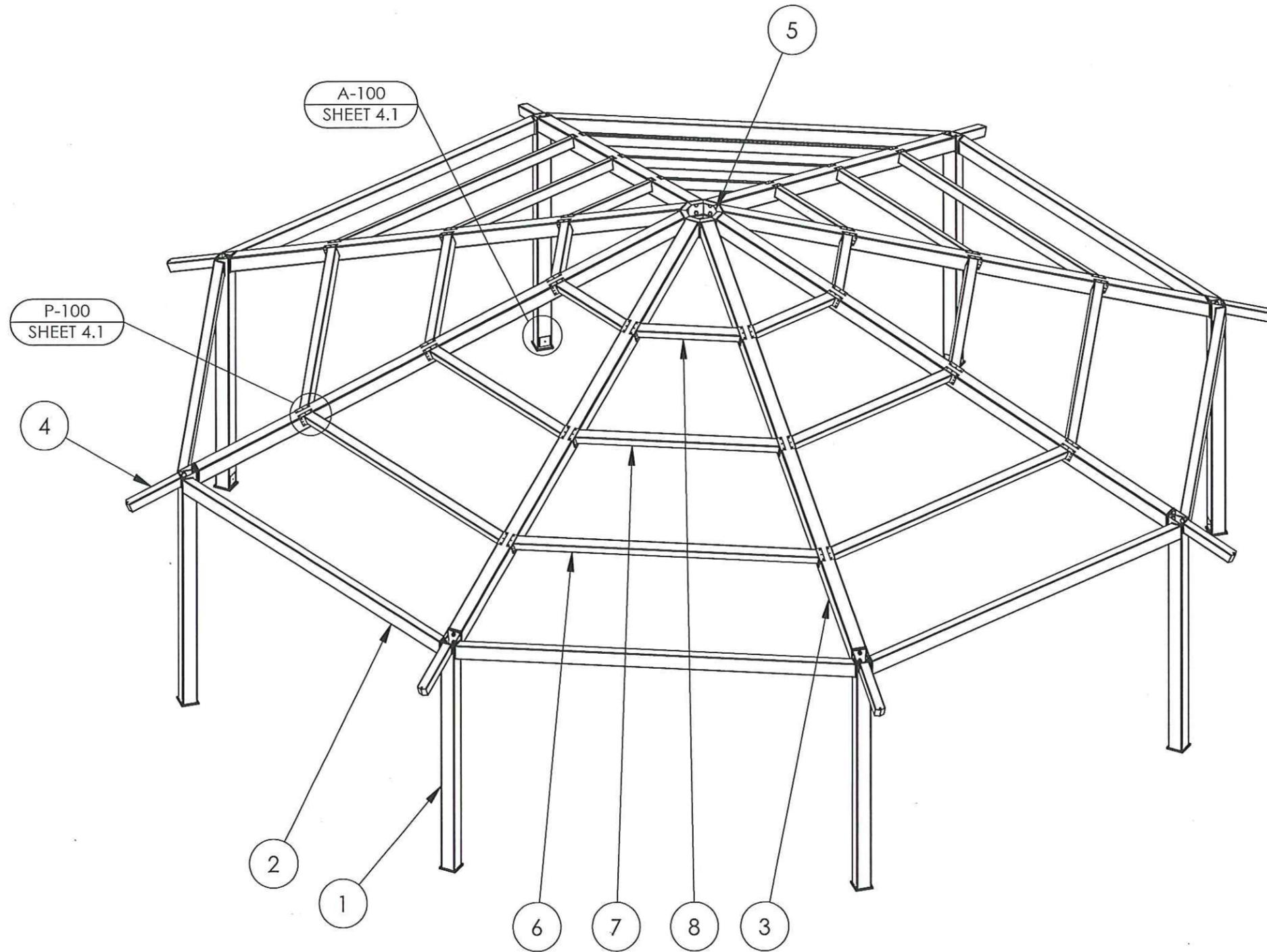


FINISH GRADE  
(ASSUMED AT CONSTAN ELEVATION  
UNLESS OTHERWISE NOTED)



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BUILDING COMPONENTS (AND FOUNDATION DESIGN IF APPLICABLE)  
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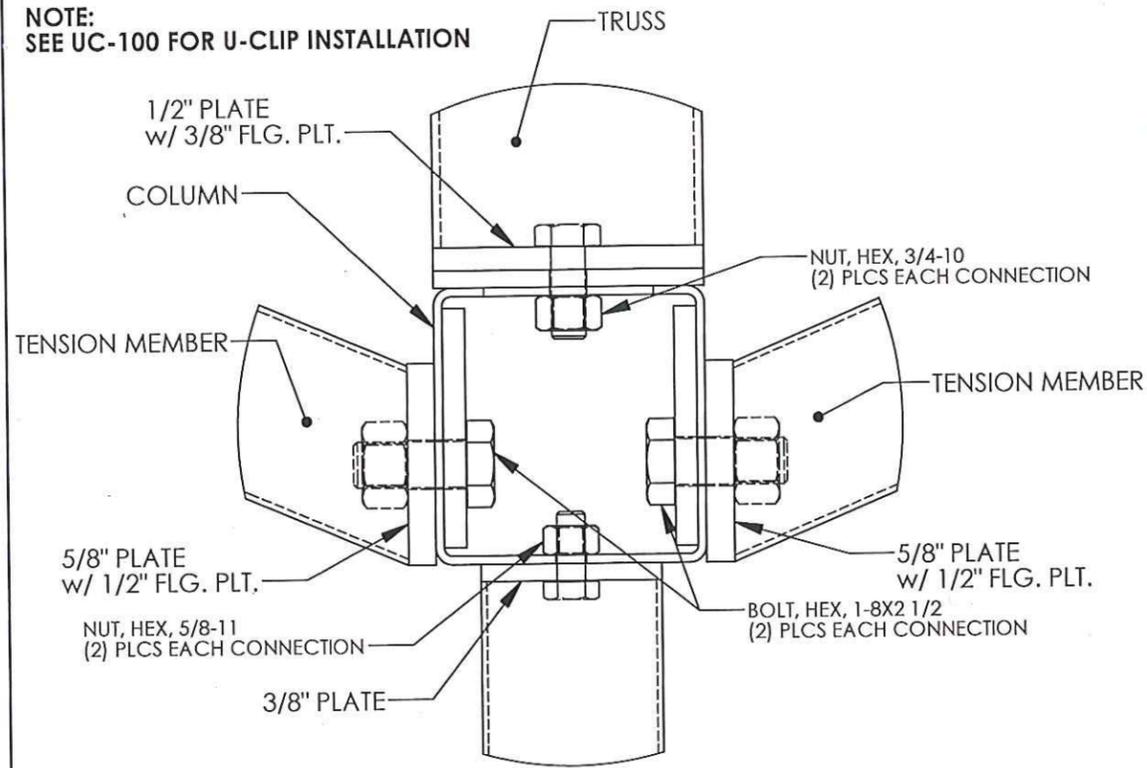
PROJECT:	BLACKHAWK PARK	CREATION DATE:	4/4/2013	DRAWN BY:	briste	PRINT DATE:	5/7/2013
PROJECT LOCATION:	MADISON, WI	JOB NO.:	50339	REV LEVEL:	A	SCALE:	1:96
DRAWING:	STRUCTURAL FRAMING PLAN	CAD MODEL:	OTC-40-TGSS-B2-50339				
SHEET	3						



ITEM	QTY.	PART No.	DESCRIPTION	MATERIAL
8	8	-	PURLIN ASM, "C"	HSS4"X4"X1/8"
7	8	-	PURLIN ASM, "B"	HSS4"X4"X1/8"
6	8	-	PURLIN ASM, "A"	HSS4"X4"X1/8"
5	1	-	OCT C-RING ASM	C7x12.2
4	8	-	TRUSS TAIL ASM	HSS4"X4"X1/8"
3	8	-	TRUSS ASM	HSS6"X6"X3/16"
2	8	-	TENSION MEMBER ASM	HSS6"X4"X1/8"
1	8	-	COLUMN ASM	HSS6"X6"X3/16"

IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS (AND FOUNDATION DESIGN IF APPLICABLE) DETAILED WITHIN THESE DRAWINGS.

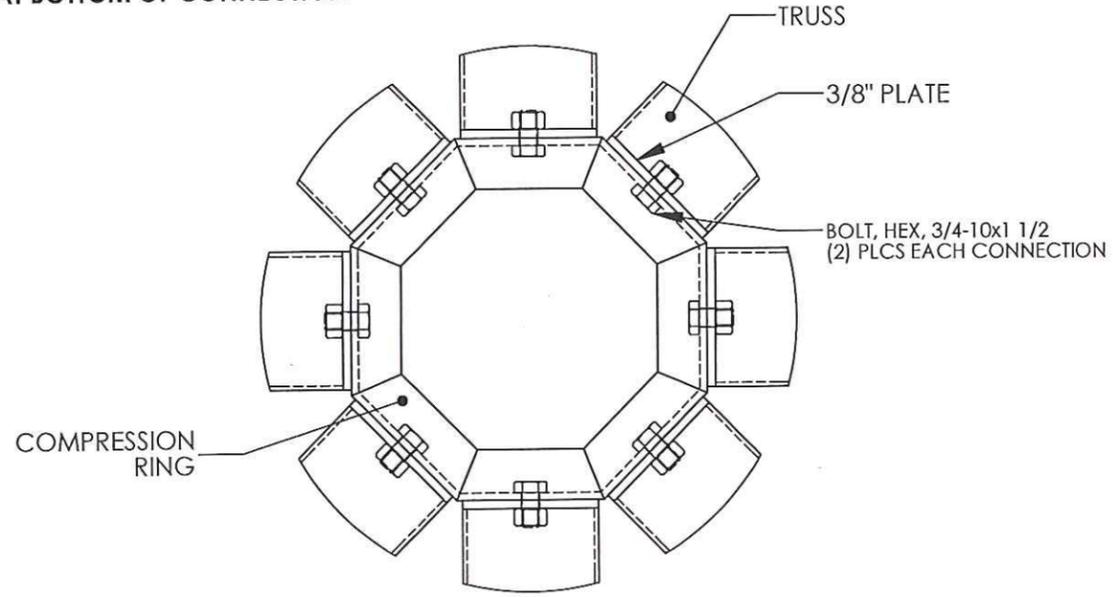
NOTE:  
SEE UC-100 FOR U-CLIP INSTALLATION



COLUMN CONNECTIONS

K-100

NOTE:  
COVER PLATE  
ATTACHED WITH POP RIVETS  
(030105) (2) PER CLEAT  
AT BOTTOM OF CONNECTION



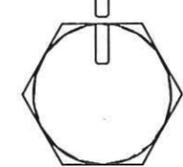
COMPRESSION MEMBER CONNECTION

T-100

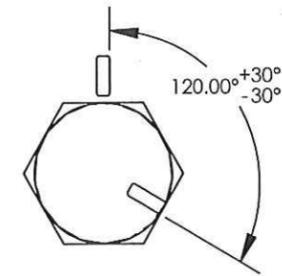
**TURN-OF-NUT PRETENSIONING METHOD:**

THESE STEPS ILLUSTRATE THE REQUIREMENTS OUTLINED IN THE AISC SPECIFICATION. THE ROTATION INDICATED IS ACCURATE FOR MOST BOLT DIAMETERS AND LENGTHS BUT IT IS THE RESPONSIBILITY OF THE INSTALLER TO MEET AISC REQUIREMENTS.

STEP ONE:  
AFTER SNUG TIGHT,  
MATCH MARK PLATE

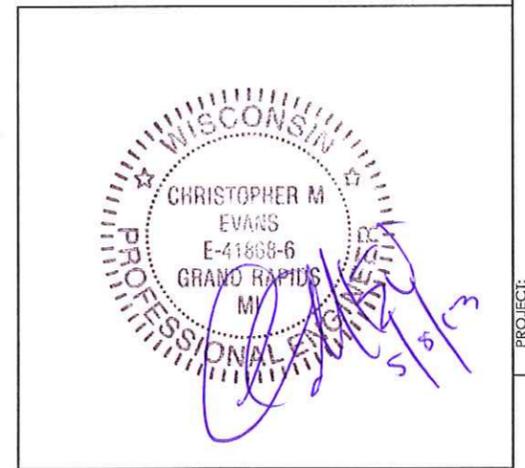


STEP TWO:  
THEN TURN BOLT/NUT PAST  
SNUG TIGHT 1/3 TURN



**CONNECTION NOTES:**

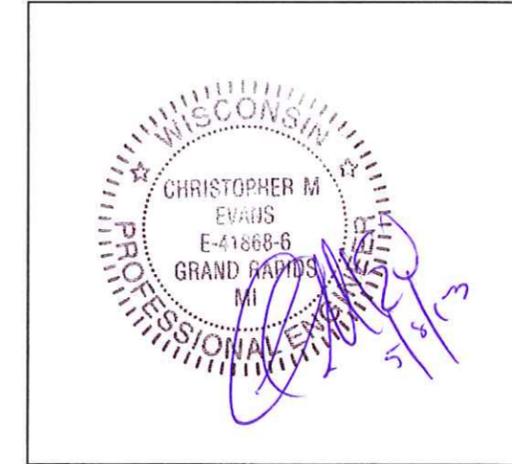
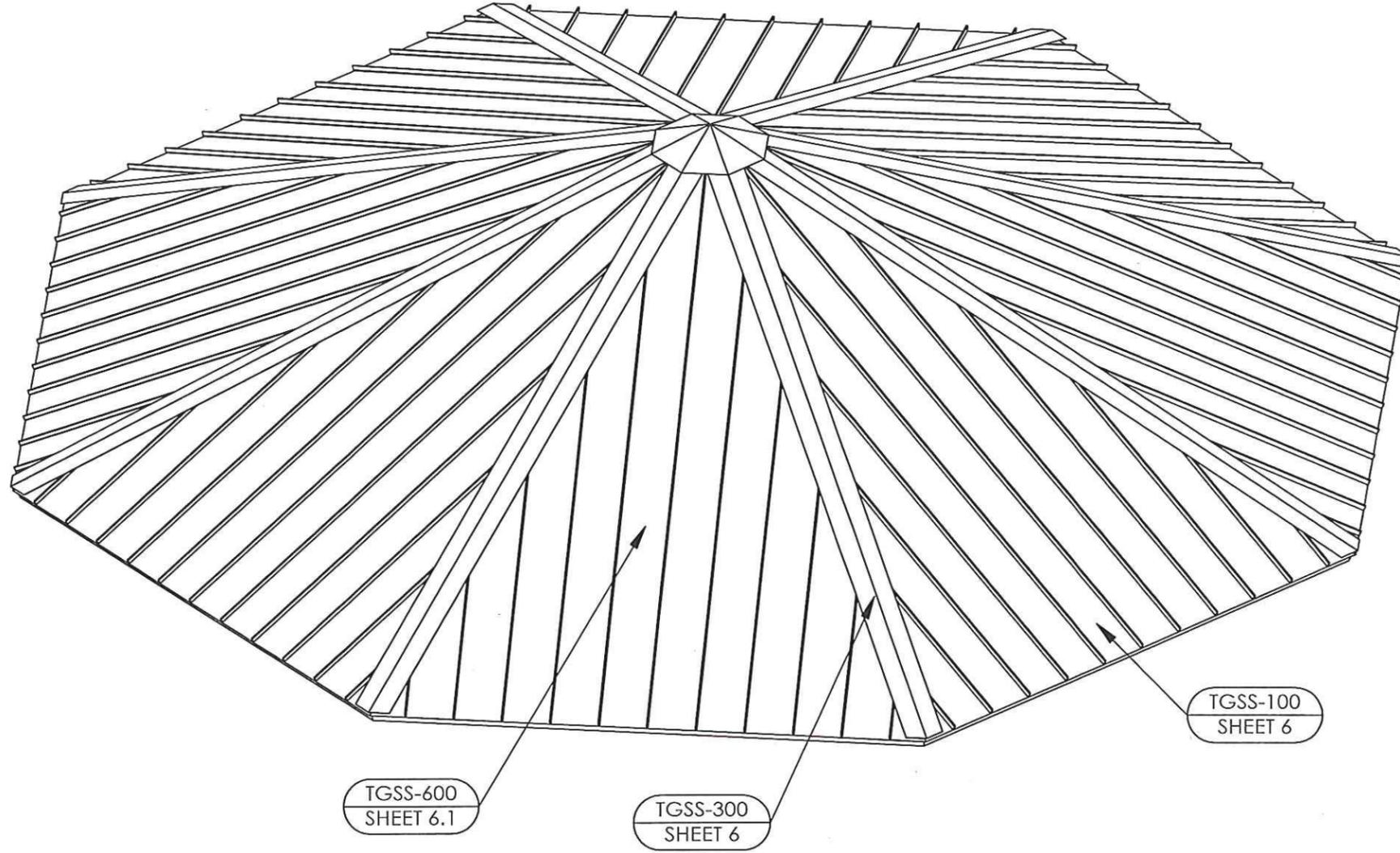
- ALL HIGH STRENGTH BOLTS ARE A325 BOLTS AND TO BE INSTALLED BY THE "TURN-OF-NUT" PRETENSIONING METHOD AS SPECIFIED IN THE 13TH EDITION OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", SECTION 8 (SEE ILLUSTRATION). A325 BOLTS MAY BE INSTALLED WITHOUT WASHERS WHEN TIGHTENED BY THE "TURN-OF-NUT" PRETENSIONING METHOD. IT IS THE RESPONSIBILITY OF THE ERECTOR TO INSURE PROPER TIGHTNESS. THIS METHOD IS ONLY REQUIRED ON 5/8" DIAMETER AND LARGER BOLTS. ANCHOR BOLTS NEED NOT BE TIGHTENED PAST SNUG TIGHT.
- LOCAL JURISDICTIONS MAY REQUIRE AN INSPECTOR TO BE PRESENT TO WITNESS HARDWARE INSTALLATION AND INDEPENDENT TESTING. INSPECTION REQUIREMENTS SHOULD BE VERIFIED PRIOR TO STEEL ERECTION.
- ERECTION OF THE FRAMING MEMBERS WILL REQUIRE THE MAIN COLUMNS TO BE PLUMB SQUARE AND TIGHTENED TO THE TRUSSES AND TENSION MEMBERS BEFORE INSTALLING THE PURLINS. PURLINS, IF REQUIRED, MUST BE PARALLEL TO THE EAVE BEAMS AND TENSION MEMBERS.
- TOUCH-UP PAINT MUST BE APPLIED TO ALL EXPOSED BOLTS & NUTS. PERIODIC TOUCH-UP AT THESE BOLTED CONNECTIONS IS REQUIRED.
- UNLESS THE BUILDING HAS A FACTORY APPLIED POWDERCOAT, E-COAT OR GALVANIZING, THE FRAME WILL BE PRIME PAINTED AND WILL BE REQUIRED TO BE FINISH PAINTED IN THE FIELD WITH ALL PAINT, MATERIALS AND LABOR NOT BY POLIGON (PORTERCORP). REFER TO FINAL SALES ORDER.
- PRIOR TO THE ERECTION OF SHELTER COMPONENTS, IT IS RECOMMENDED TO CHASE AND TAP STRUCTURAL HARDWARE. EVEN THOUGH POLIGON MAKES EVERY EFFORT TO PROTECT THE HARDWARE DURING THE PROCESS OF PRODUCTION, FINISH, AND SHIPPING, THE ON-SITE CHASING AND TAPPING OF THREADS IS ALWAYS GOOD POLICY.
- TO PREVENT RUST STAINING OF FINISH, ALL METAL SHAVINGS MUST BE REMOVED AFTER INSTALLATION. ENSURE NO SHAVING ARE TRAPPED BETWEEN MEMBER SURFACES.



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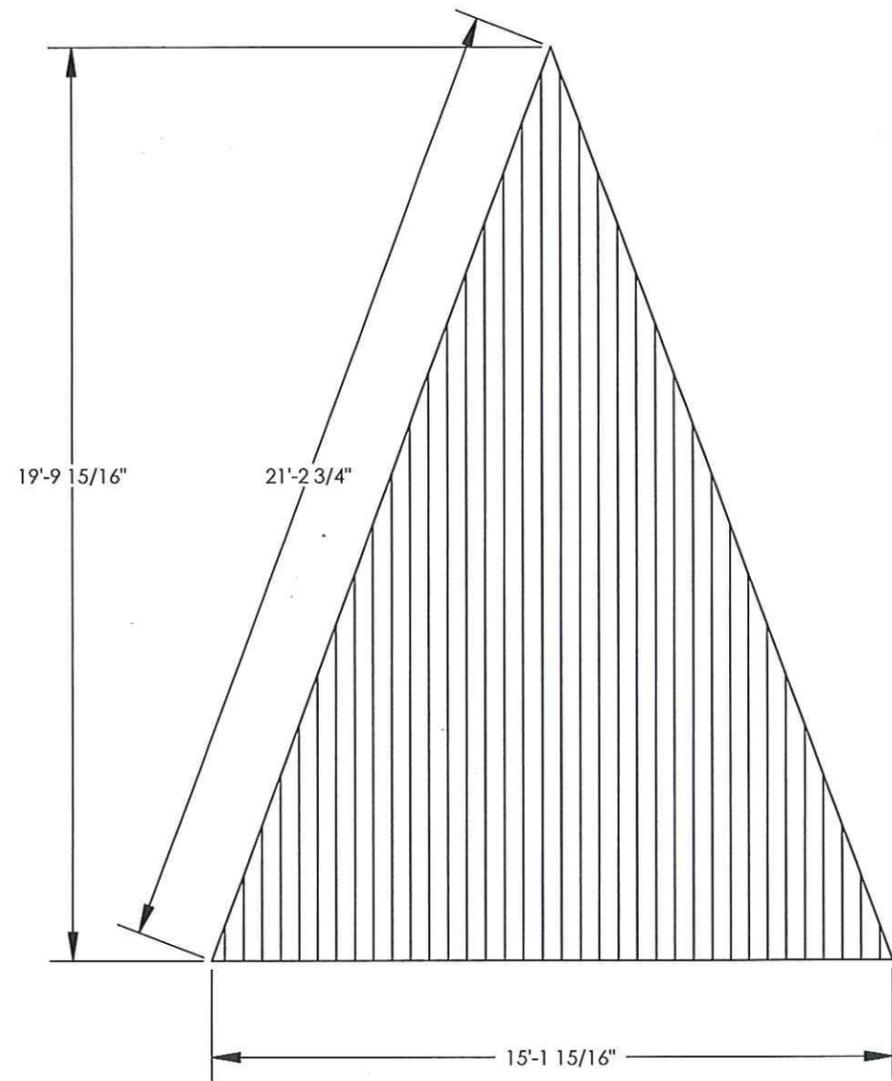
<p>poligon www.poligon.com by PORTERCORP</p>	<p>PRINT DATE: 5/7/2013</p>	<p>SCALE: 1:4</p>
	<p>CREATION DATE: 4/4/2013</p>	<p>DRAWN BY: briste</p>
<p>JOB NO: 50339</p>	<p>CAD MODEL: OTC-40-TGSS-B2-50339</p>	
<p>PROJECT: BLACKHAWK PARK</p>	<p>PROJECT LOCATION: MADISON, WI</p>	
<p>DRAWING: FRAME CONNECTION DETAILS</p>		
<p>SHEET</p>		
<p><b>4</b></p>		





PROJECT:	BLACKHAWK PARK	CREATION DATE:	4/4/2013	DRAWN BY:	briste	PRINT DATE:	5/7/2013	(616)399-1963
PROJECT LOCATION:	MADISON, WI	JOB NO.:	50339	REV LEVEL:	A	SCALE:	1:48	www.poligon.com
DRAWING:	ROOF OVERVIEW	CAD MODEL:	OTC-40-TGSS-B2-50339					by PORTERCORP

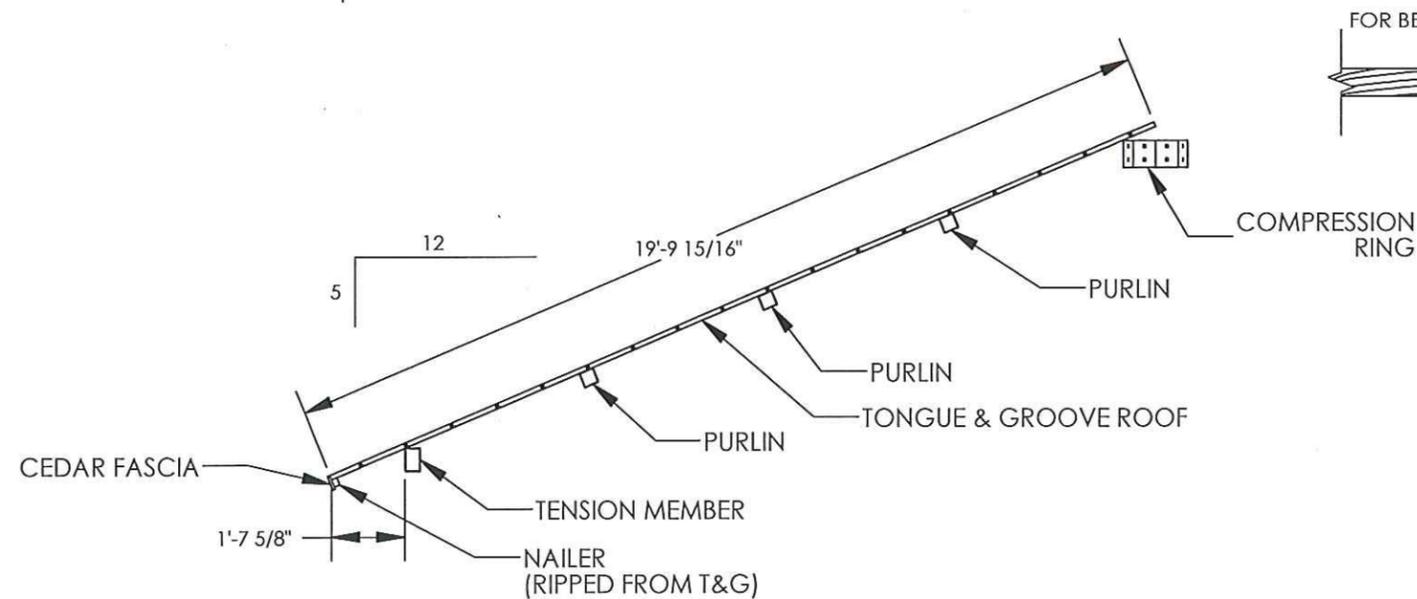
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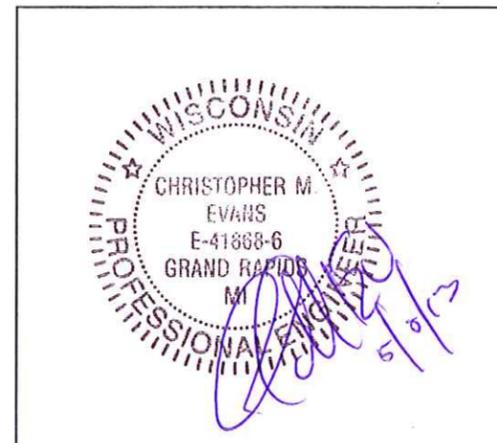
**TONGUE & GROOVE NOTES:**

1. TO BEGIN, SNAP A CHALK LINE TO MARK CENTERS OF COMPRESSION RING AND TENSION MEMBER. LOCATE FIRST TWO PLANKS EACH SIDE OF THE LINE AND WORK OUT TO THE CORNERS. MAKE SURE PLANKS ARE LONG ENOUGH TO COVER EAVE, TRUSSES, AND THE CENTER OF THE PEAK.
2. ALL TONGUE & GROOVE DECKING IS SOUTHERN YELLOW PINE #1 & BETTER. THE T&G PROVIDED MAY CONTAIN SOME MINOR IMPERFECTIONS. REMOVE THESE IMPERFECTIONS AS REQUIRED AND USE REMAINDER OF MATERIAL TO ATTAIN MAXIMUM YIELD.
3. NO END JOINTS IN DECKING WITHIN 24" OF TENSION MEMBER.
4. A MINIMUM OF 24" SPACING IS REQUIRED BETWEEN ALL ADJACENT END JOINTS.

SPIB GRADING RULES FOR 2" X 6" - NO. 1  
 SLOPE OF GRAIN:  
 1" IN 8"  
 DECAY:  
 HEART CENTER, 1/3 THICKNESS X 1/3 WIDTH  
 HOLES:  
 1-1/2" (ONE OR EQUIVALENT IN EACH 2LF.)  
 KNOTS:  
 EDGE 1-7/8" (ONE OR EQUIVALENT IN EACH 2 LF.)  
 CENTERLINE: 2-7/8" (ONE OR EQUIVALENT IN EACH 2 LF.)  
 UNSOUND KNOTS:  
 1-1/4" (ONE OR EQUIVALENT IN EACH 2 LF.)  
 CHECKS:  
 SURFACE CHECKS NOT LIMITED  
 SPLITS:  
 EQUAL TO 1-1/2 TIMES THE WIDTH  
 WAVE:  
 1/3 THICKNESS X 1/3 WIDTH X FULL LENGTH OR EQUIVALENT, MUST NOT EXCEED 2/3 THICKNESS X 1/3 WIDTH FOR UP TO 1/4 OF THE LENGTH.  
 BOW:  
 10FT. - 1-1/2", 12FT. - 2", 14FT. - 2-1/2", 16FT. - 3-1/4"  
 CROOK: 10FT. - 7/16", 12FT. - 5/8", 14FT. - 3/4", 16FT. - 7/8"

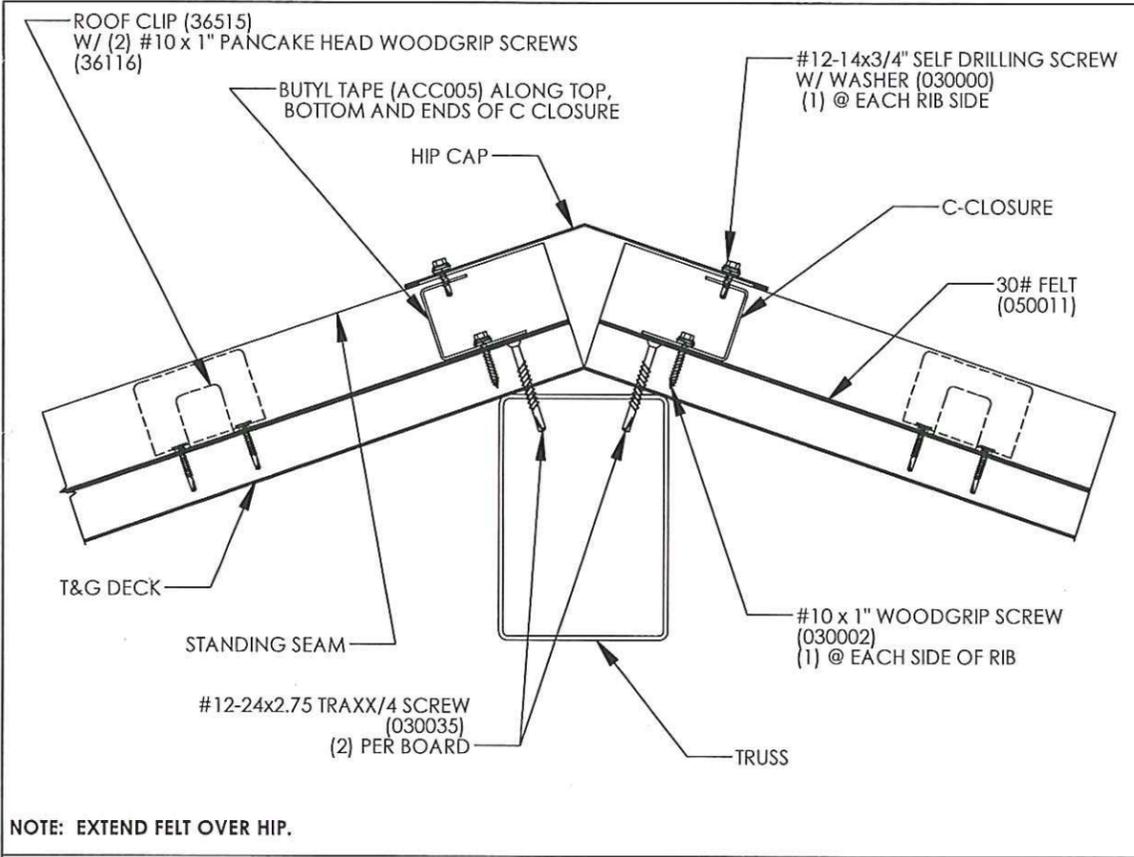


FOR BEST APPEARANCE POLIGON SUGGESTS THAT ALL END JOINTS BE MITERED @ 45°



PROJECT:	BLACKHAWK PARK	PRINT DATE:	5/7/2013
PROJECT LOCATION:	MADISON, WI	DRAWN BY:	briste
DRAWING:	ROOF LAYOUT	REV LEVEL:	A
		CREATION DATE:	4/4/2013
		JOB NO.:	50339
		CAD MODEL:	OTC-40-TGSS-B2-50339
		SCALE:	1:48
		CONTACT:	(616)399-1963 www.poligon.com by PORTERCORP
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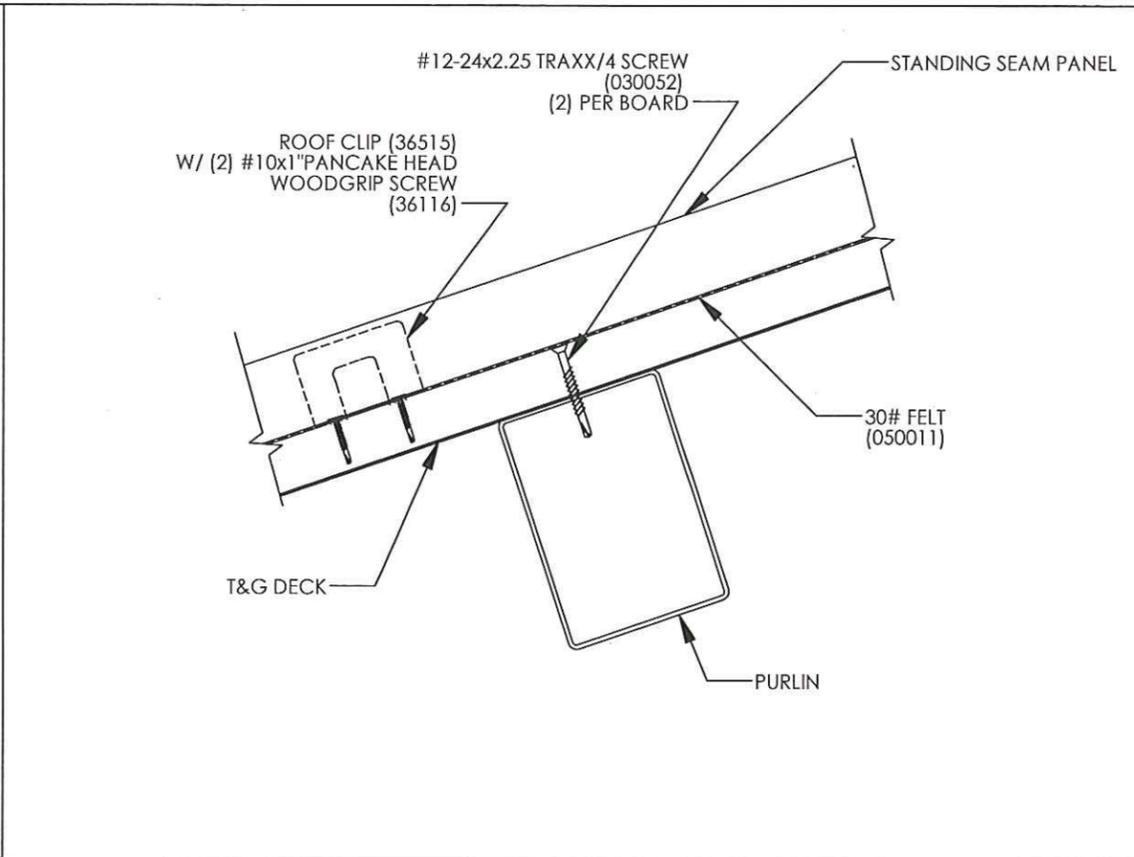
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NOTE: EXTEND FELT OVER HIP.

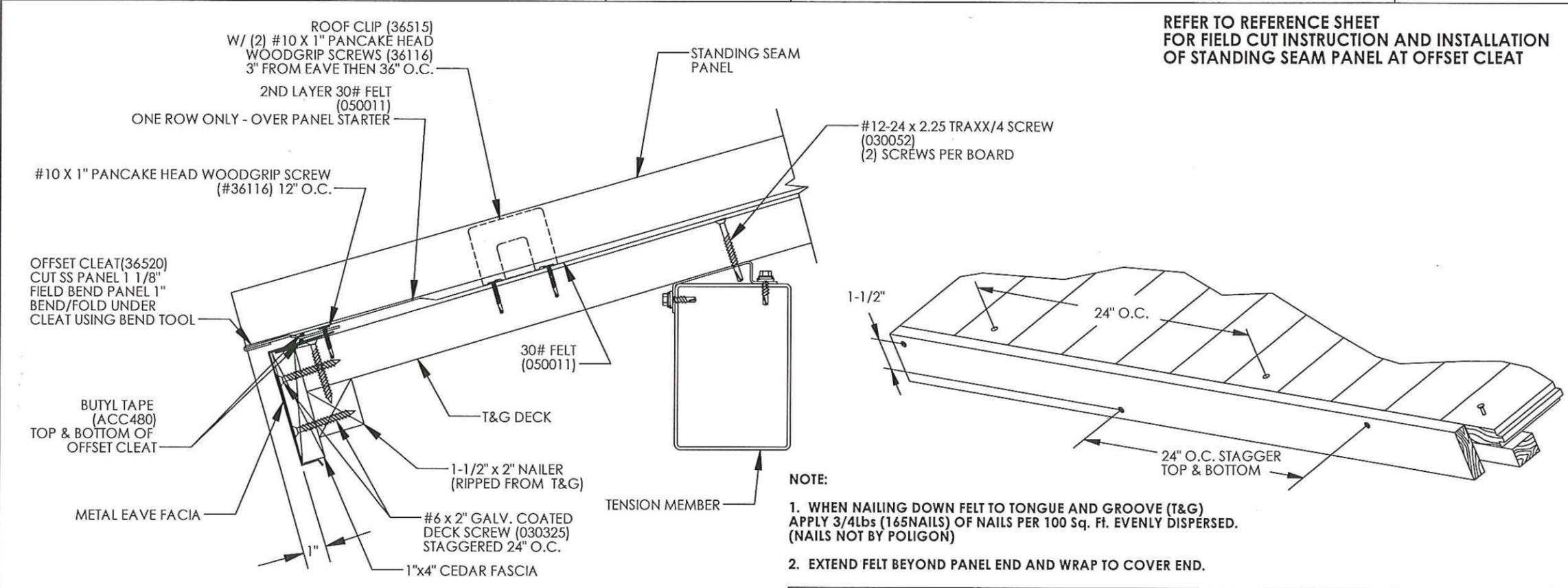
SECTION @ TRUSS

TGSS-300



SECTION @ PURLIN

TGSS-600



REFER TO REFERENCE SHEET FOR FIELD CUT INSTRUCTION AND INSTALLATION OF STANDING SEAM PANEL AT OFFSET CLEAT

NOTE:  
 1. WHEN NAILING DOWN FELT TO TONGUE AND GROOVE (T&G) APPLY 3/4lbs (165NAILS) OF NAILS PER 100 Sq. Ft. EVENLY DISPersed. (NAILS NOT BY POLIGON)  
 2. EXTEND FELT BEYOND PANEL END AND WRAP TO COVER END.

SECTION @ EAVE

TGSS-100

NOTE:  
 ATTACH ROOF PEAK CAP TO RIBS & RIDGE CAP WITH #12-14x3/4" SELF DRILLING SCREW. (030000)

**PART DESCRIPTIONS:**

-  030325 #6 x 2" GALV. COATED DECK SCREW
-  030002 #10x1" WOODGRIP SCREW
-  36116 #10x1" PANCAKE HEAD WOODGRIP SCREW
-  030000 #12-14x3/4" SELF DRILLING SCREW
-  030035 #12-24x2.75 TRAXX/4 SCREW
-  030052 #12-24x2.25 TRAXX/4 SCREW
-  1 1/4" GALVANIZED ROOFING NAIL (NOT BY POLIGON)

NOTE:  
 ALL MATERIALS ARE CALLED OUT ON SHEETS 5 & 5.1.



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		CREATION DATE: 4/4/2013 JOB NO: 50339 CAD MODEL: OTC-40-TGSS-B2-50339		
SHEET <span style="font-size: 2em; font-weight: bold;">6</span>				