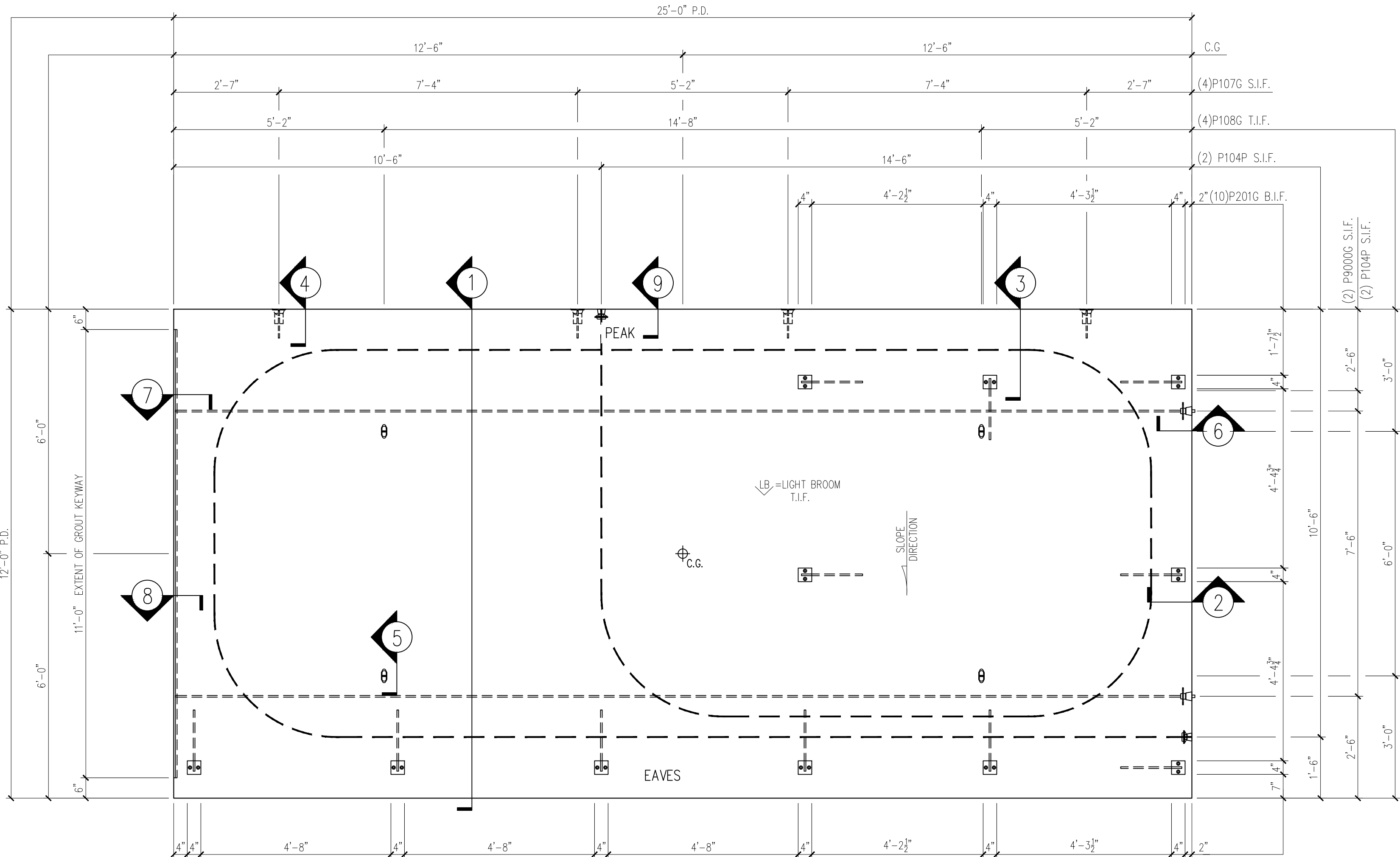
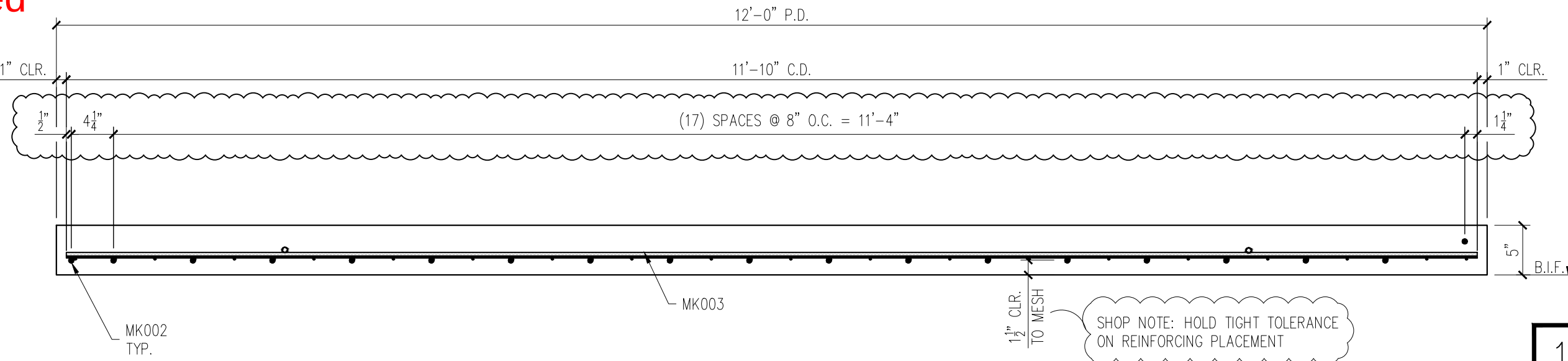


25-3470
CCHS Precast Buildings
Left Hand Dugout

ID - CVT
Roof - RP-02
Weight - 18,750
1 Required



ROOF FORM VIEW
SCALE: 1/2" = 1'-0"



SHOP NOTE: HOLD TIGHT TOLERANCE ON REINFORCING PLACEMENT

MESSAGE CENTER

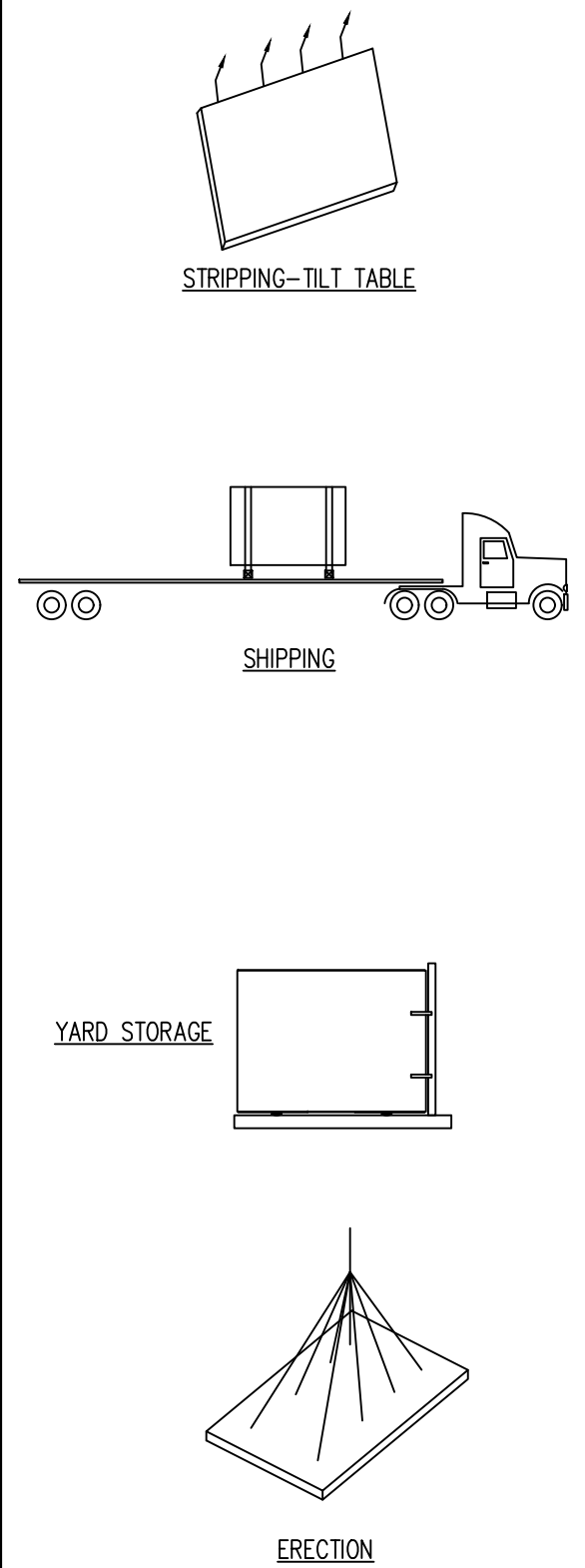
1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

2. SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE UP

CHECKED BY: DATE:
APPROVED BY: DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P201G	4"x4"x8" W/(2) 8"x1 1/2" H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	10
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P107G	4 TON RL-4 TECH ERECTION ANCHOR (79548SP) (GALVANIZED)	4
P108G	4 TON RL-24 PLATE ANCHOR (79128) (GALVANIZED)	4
P9000G	1"Ø E.M.T. TUBE 24'-10 1/2" LONG (GALV.)	2

HANDLING INSTRUCTIONS



CONCRETE INSTRUCTIONS	
CONCRETE @ RELEASE:	2,500 P.S.I.
CONCRETE @ 28 DAYS:	5,000 P.S.I.
POST-TENSION @	3,500 P.S.I.
CONCRETE MIXES	
CONCRETE - GRAY	VOLUME = 4.62 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 4.62 C.Y.
WEIGHT:	18,750 LBS.

FINISHING INSTRUCTIONS

LB = LIGHT BROOM FINISH	
FF = FORM FINISH	
L = 12'-0"	SQ.FT.(T.I.F.) = 300.0
W = 25'-0"	SQ.FT.(T.I.F.) = -
D = 5"	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:
-
-

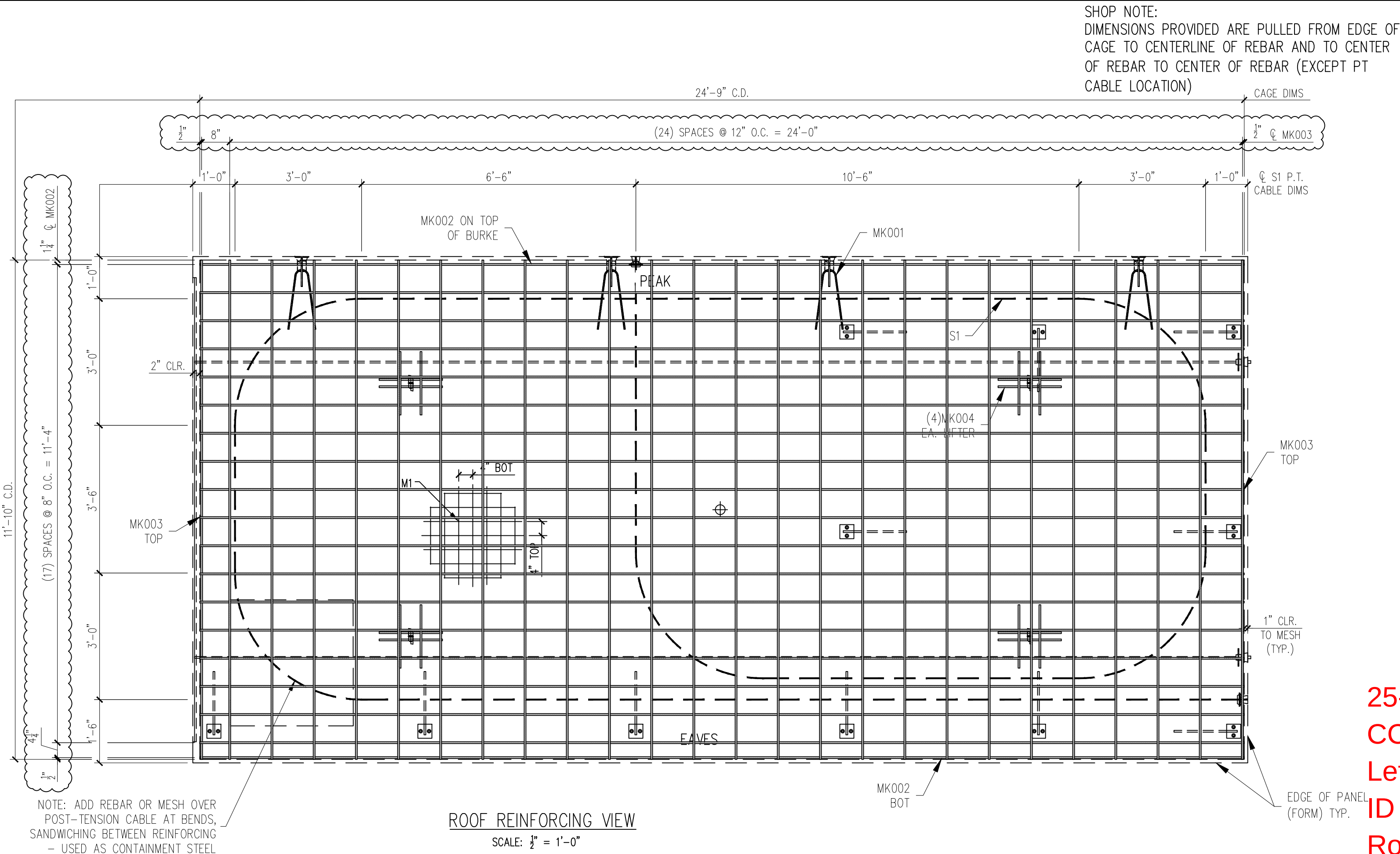
PRODUCT	SALES ORDER NUMBER
BUILDING	-
SHEET NUMBER	NUMBER REQUIRED
1 OF 2	1

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DATE	REV	INI.	WCR	DESCRIPTION
07.21.26	-	-	-	REVISED REBAR SPACING
-	-	-	-	
-	-	-	-	
-	-	-	-	

PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.20.26
PIECE MARK RP-02



DATE	REV	DESCRIPTION	WCR	Δ	Δ	Δ	Δ
07.21.26	-	REVISED REBAR SPACING	-	-	-	-	-

PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
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SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.20.26
PIECE MARK RP-02

- NOTES:
1. TRIM PLASTIC SHEATH AT BOTH ENDS OF THE PT CABLE TO FIT BETWEEN U-5 ANCHOR PLATES
 2. CONSTRUCT REBAR-MESH CAGE ACCORDING TO THE DRAWINGS. SECURE LIFTING APPARATUS TO FORM AND ADD PROPER REINFORCEMENT. PLACE REBAR-MESH CAGE AND HAIRPINS AT INSERTS WITH PROPER CLEARANCES (PER DRAWINGS).
 3. PLACE AND SECURE PT CABLE AS INDICATED ON THE DRAWINGS (REINFORCING VIEW)

MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

2. SUPPLEMENTAL STEEL FOR STRIPPING AND HANDLING MAY BE ADDED AS REQUIRED.

CHECKED BY: DATE:
APPROVED BY: DATE:

PRODUCT BUILDING	SALES ORDER NUMBER -
SHEET NUMBER 2 OF 2	NUMBER REQUIRED 1

PT Check for Roof Panels RP-01 & 02 (PCI MNL - 1)

Material Data

(7) Wire lo-lax Strand - ASTM A416

Φ_{ps} 0.500 in,

A= 0.153 in²

E= 28500000 psi

f_{pu}= 270 ksi

Strand Length **990 in**

Assume (Info supplied by strand manufacturer)

k= 0.0007 Wobble Friction Coeff.

μ = 0.05 Curvature friction coeff. (Initial tension of 3,000 lbs)

Strand is to be stressed 70% of ultimate

= 28917 lbs

Adjustments to tensioning

1) Dead end anchor wedge seating loss

~ Expected to be 1/8 in

2) Live end anchor wedge seating loss

~ Expected to be 1/8 in, recommend over pull 1/8"

3) Elastic Shortening

Neglect for this pnl

4) Friction Loss

Additional force to overcome frictional forces between strand and sheathing

Tensioning Computations

Basic Elongation = $\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$

= 5.88 in

Adjustments

a) Dead end anchor wedge seating: Add 1/8" to elong. No force adjustment req'd

Add 1/8 in

b) Live end seating: over pull by 1/8"

1/8 in

Force adjustment t = 551 lbs lbs α = curvature = $\pi(2.5)$ 7.85 radians

c) Friction losses $\frac{PD}{PS} = e^{-(kL + \mu\alpha)}$

= 0.637

Avg. strand force = 0.819 18.13% Loss

Recommend sequential jacking at both ends of the tendon be used to reduce the overstressing the strand at the live end

Friction loss at mid-point of tendon

$\frac{PD}{PS} = e^{\frac{-(kL + \mu\alpha)}{2}}$

= 0.798

Avg. strand force over

half of tendon = 0.899 10.08% Loss

Total force and elongation at live end must be increased to compensate for friction losses

Elong. Adjustment = 0.593 in

Force Adjustment = 2916 lbs

Total Force Required = 32383 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation	5.88 in		
Dead End Seating Loss	0.125 in		
Live End Seating Loss	0.125 in		
Friction Losses	0.593 in		
Total Elongation	6.73 in		
Rounded	6 12/16 in		
Tolerance limits	-7.0%	6.26 in	6 4/16 in
	+7.0%	7.20 in	7 3/16 in



Cable Configuration

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