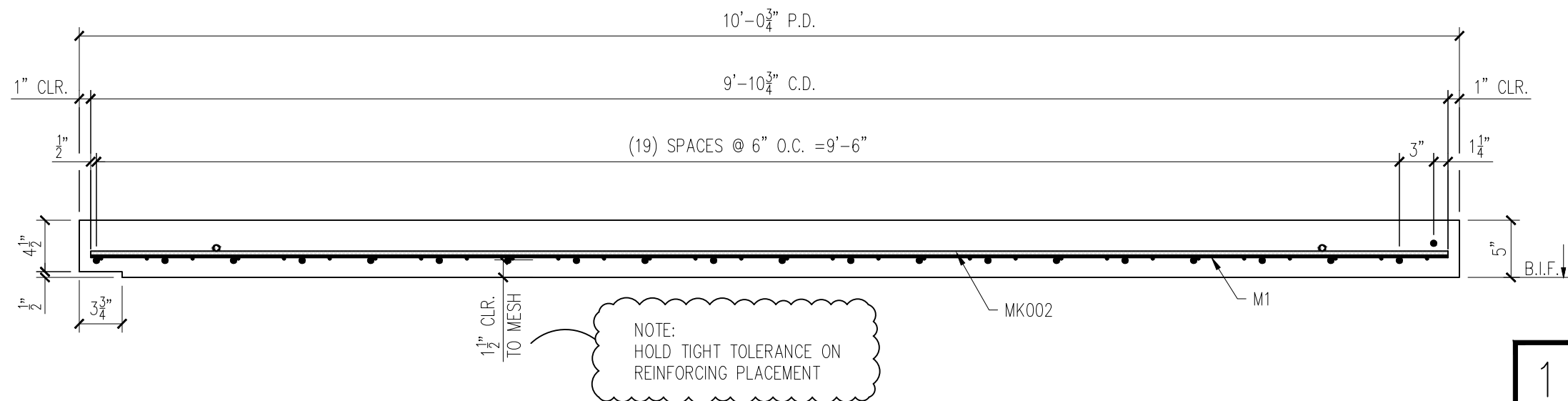
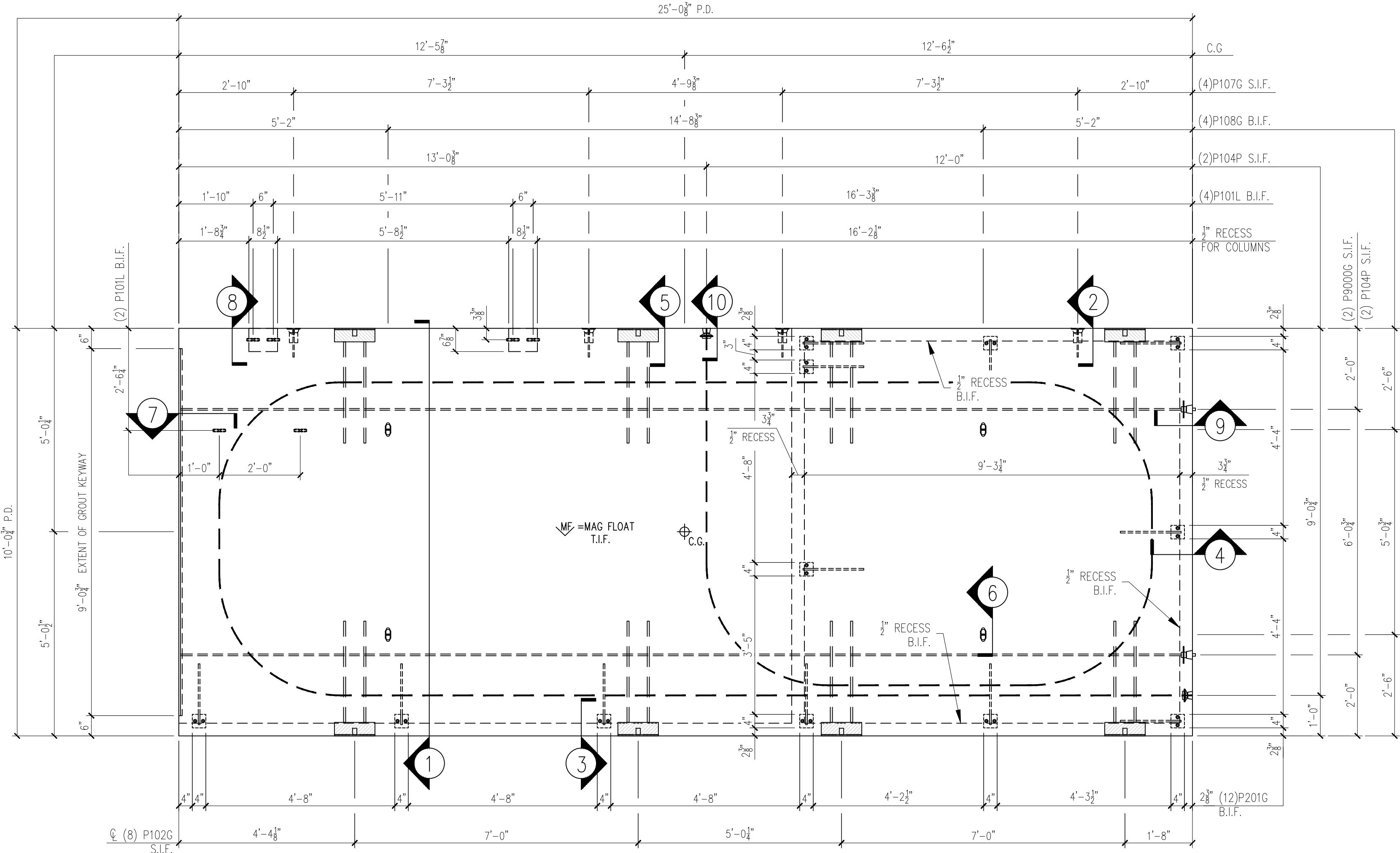


25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVBS
Floor - FP-02
Weight - 15,635
1 Required



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



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)	12
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P107G	4 TON RL-4 TECH ERECTION ANCHOR (79548SP) (GALVANIZED)	4
P102G	ESW P-4 LIFTING ANGLE (GALV.)	8
P9000G	1"Ø E.M.T. TUBE 24'-10 1/8" LONG (GALV.)	2
P108G	4 TON RL-24 PLATE ANCHOR (79128) (GALVANIZED)	4
P101L	1/2"Ø X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	6

HANDLING INSTRUCTIONS

STRIPPING-TILT TABLE

SHIPPING

YARD STORAGE

ERECTION

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 = 3.85 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 3.85 C.Y.
WEIGHT:	15,635 LBS.

FINISHING INSTRUCTIONS

MF = MAG FLOAT FINISH
FF = FORM FINISH

L = 25'-0 3/8"	SQ.FT.(T.I.F.) = 250.11
W = 10'-0 3/4"	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

EASI-SET® WORLDWIDE

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www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

DATE	REV	INI.	DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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 07.22.26
PIECE MARK FP-02

MESSAGE CENTER

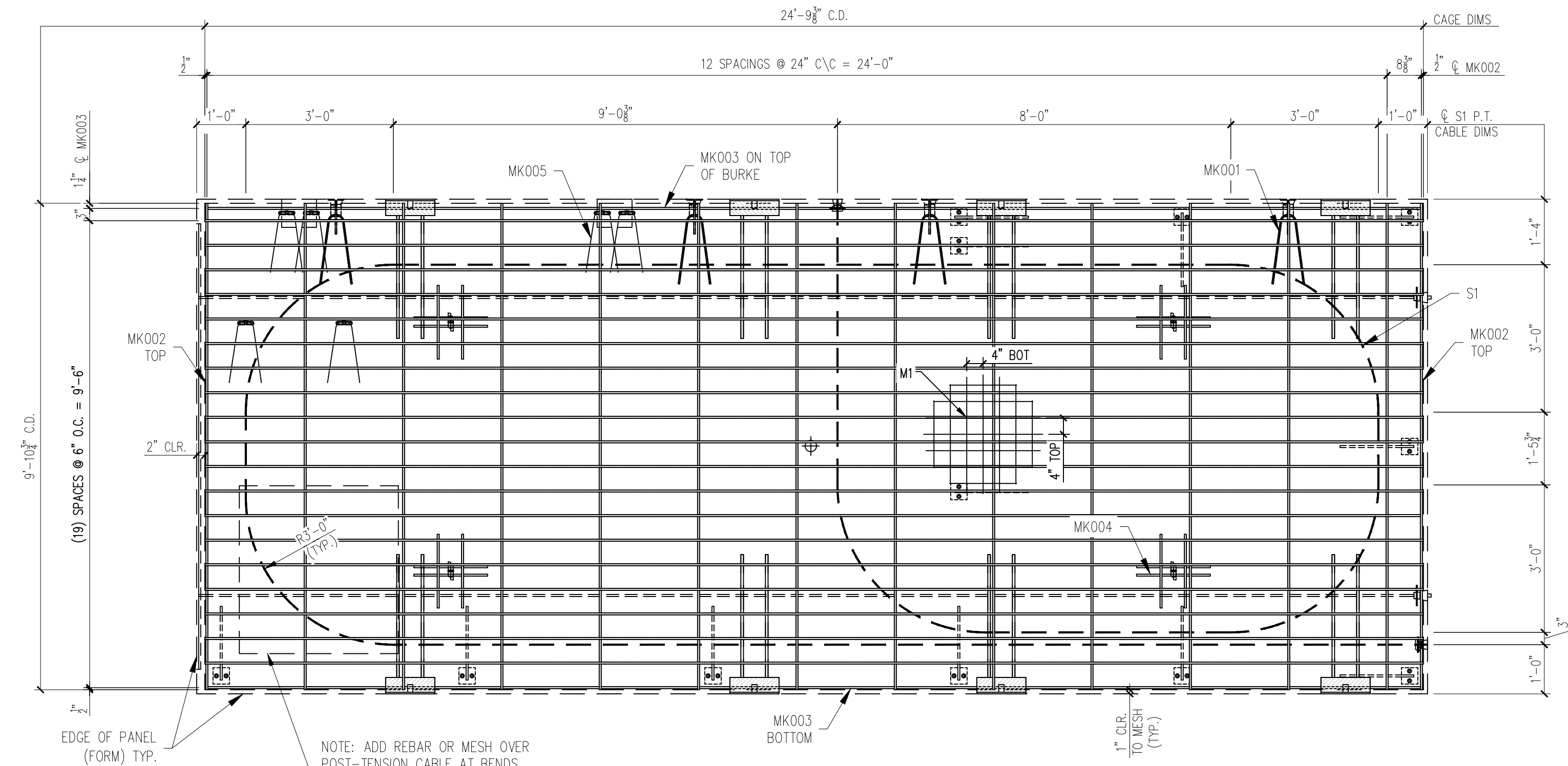
1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

2. SHOP TICKET SHOWS INSIDE SURFACE OF FLOOR CAST FACE DOWN

CHECKED BY: DATE:

APPROVED BY: DATE:

1



FLOOR REINFORCING VIEW
SCALE: $\frac{1}{2}$ " = 1'-0"

SHOP NOTE:
DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF
CAGE TO CENTERLINE OF REBAR AND TO CENTER
OF REBAR TO CENTER OF REBAR (EXCEPT PT
CABLE LOCATION)

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY
MK001	#4 X 4'-0"	4
MK002	#3 X 9'-10 3/4"	14
MK003	#3 X 24'-9 1/4"	21
MK004	#4 X 1'-6"	16
MK005	#3 X 3'-0"	6
S1	1/2" Ø X 78'-8" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY
M1	W4XW4 4"X4" WWF 24'-9 3/8" X 9'-10 3/4"	1

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- 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)

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

REV	INI.	DESCRIPTION	DATE
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-

PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
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SCALE	NTS
DRAWN BY	FTL
CHECK BY	WCR
ISSUE DATE	07.22.26
PIECE MARK	FP-02

2

3

4

5

6

MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

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

7

8

9

10

PT Check for Floor Panels FP-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 **912 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 =
$$\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$$

= 5.42 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 = 598 lbs lbs α = curvature = $\pi(2.5)$ 7.85 radians

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

= 0.640

Avg. strand force = 0.820 17.99% 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

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

= 0.800

Avg. strand force over

half of tendon = 0.900 9.99% Loss

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

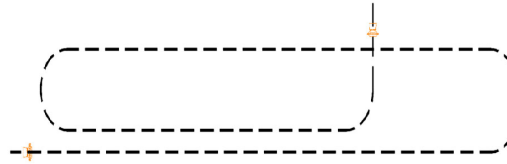
Elong. Adjustment = 0.542 in

Force Adjustment = 2889 lbs

Total Force Required = 32404 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation		5.42 in	
Dead End Seating Loss		0.125 in	
Live End Seating Loss		0.125 in	
Friction Losses		0.542 in	
Total Elongation		6.21 in	
Rounded		6 3/16 in	
Tolerance limits	-7.0%	5.78 in	5 12/16 in
	+7.0%	6.65 in	6 10/16 in



Cable Configuration

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