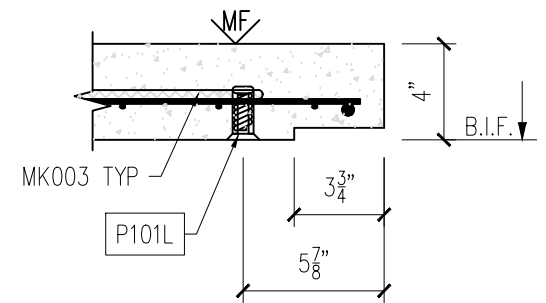
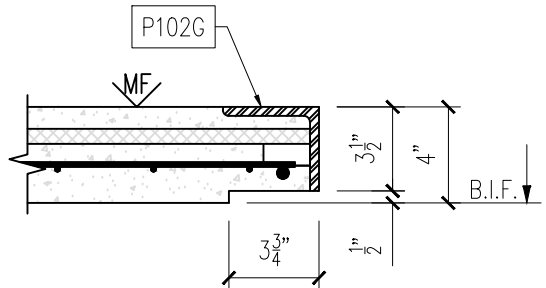
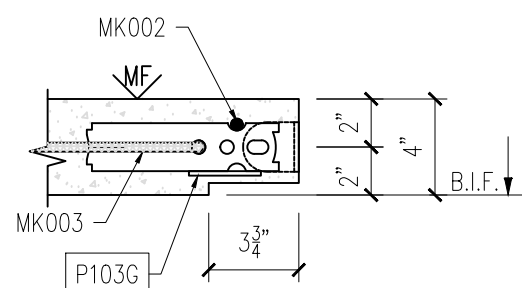
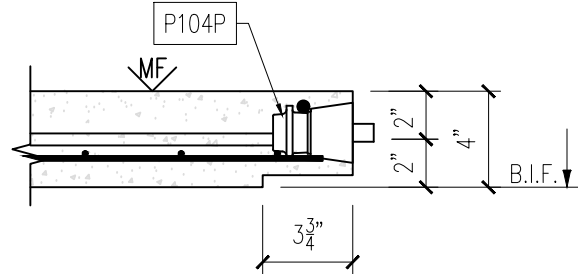
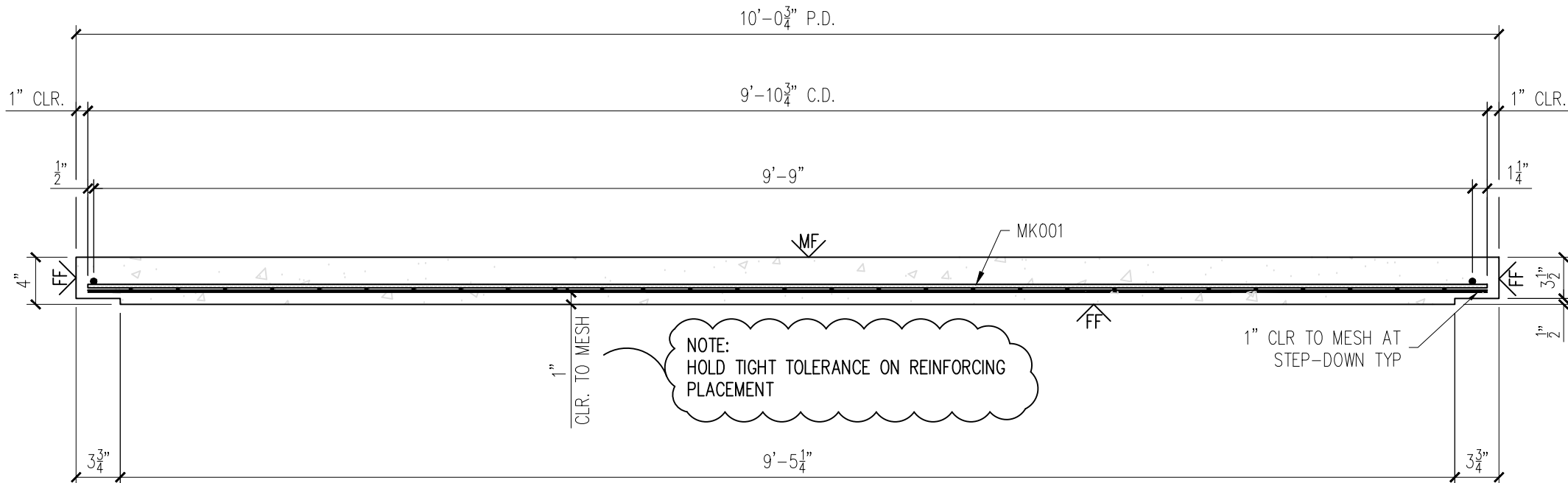
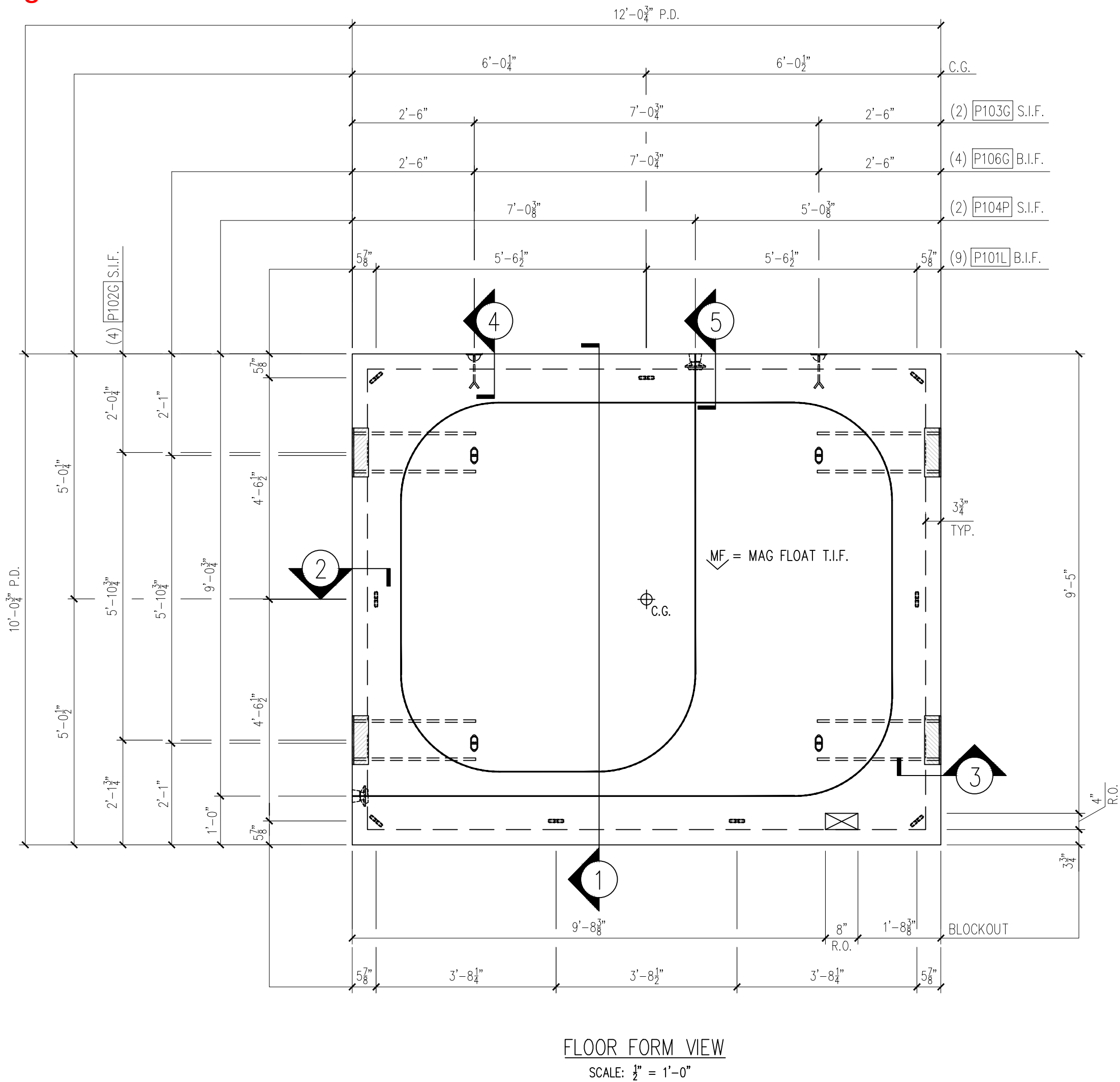


25-3470
CCHS Precast Buildings
ID - CVBS
Floor - FP-01
Weight - 5,975
1 Required



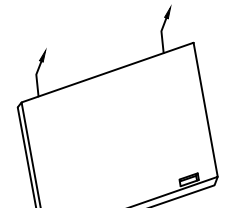
MESSAGE CENTER

- REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
- SHOP TICKET SHOWS INSIDE SURFACE OF FLOOR CAST FACE DOWN

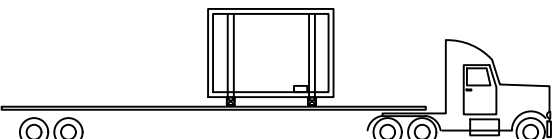
CHECKED BY: DATE:
APPROVED BY: DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P101L	3/8" X 1 3/4" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	9
P102G	ESW P-4 LIFTING ANGLE (GALV.)	4
P103G	2 TON RL-4 TECH ERECTION ANCHOR (79527) (GALV.)	2
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	2
P106G	2 TON PLATE ANCHOR QL128G OR EQUAL (GALV.)	4

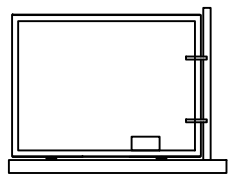
HANDLING INSTRUCTIONS



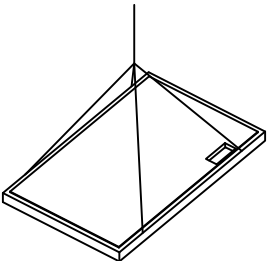
STRIPPING-TILT TABLE



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 = 1.47	C.Y.
CONCRETE - MIX 1	VOLUME = -	C.Y.
CONCRETE - MIX 2	VOLUME = -	C.Y.
SOFT SOUND	VOLUME = -	C.Y.
TOTALS	VOLUME = 1.47	C.Y.
WEIGHT: 5,975 LBS.		

FINISHING INSTRUCTIONS

MF = MAG FLOAT FINISH
FF = FORM FINISH

L = 12'-0 3/4"	SQ.FT.(T.I.F.) = 119.46
W = 10'-0 3/4"	SQ.FT.(T.I.F.) = -
D = 4"	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:

PRODUCT	SALES ORDER NUMBER
BUILDING	101208C
SHEET NUMBER	NUMBER REQUIRED
1 OF 2	1

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5119 Catlett Rd. • Midland, VA 22728 • info@EasiSet.com
www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

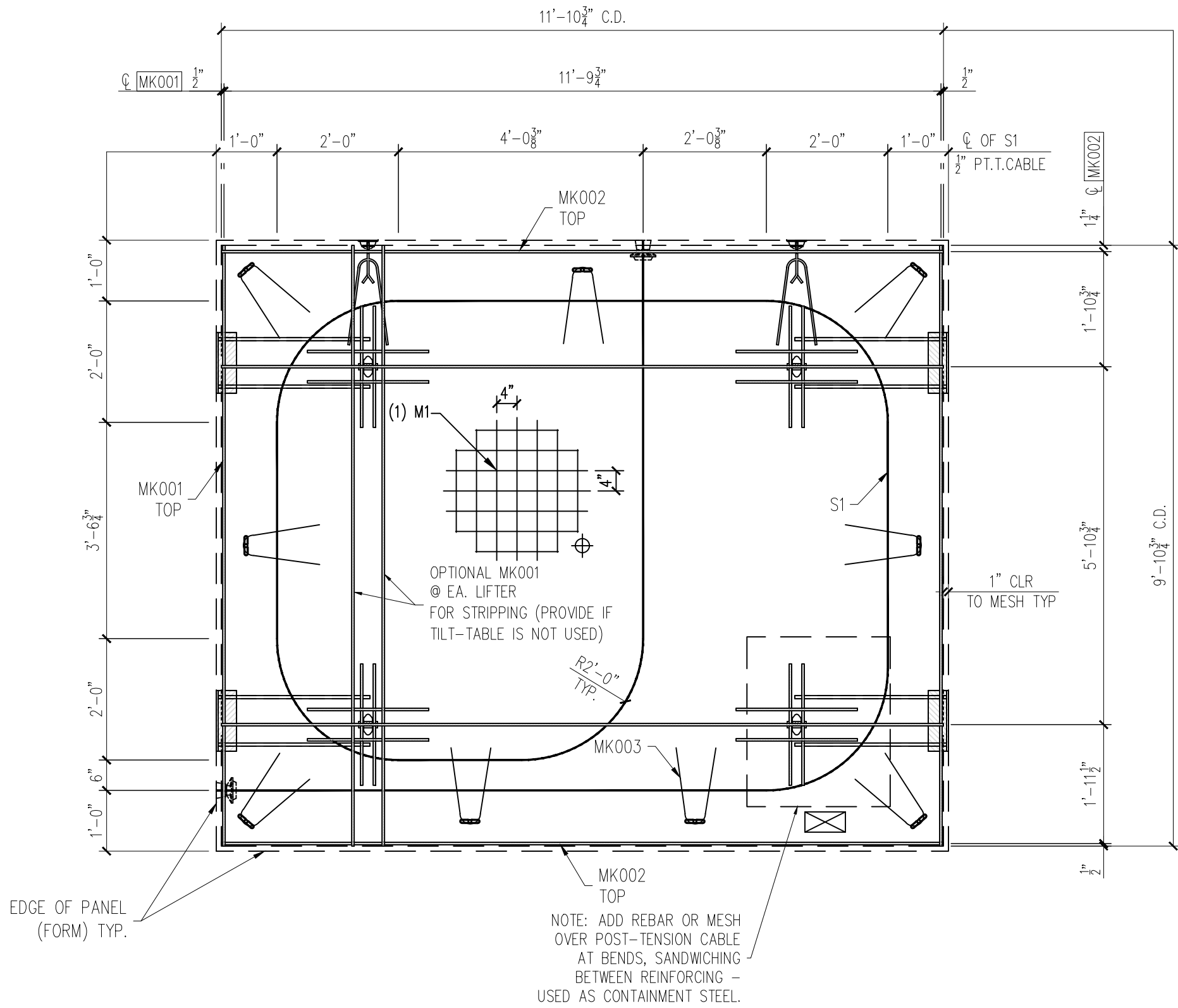
REV	INI.	DESCRIPTION
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-

PROJECT: 10'X12'X8' GATE HOUSE BUILDING
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.01.26
PIECE MARK FP-01

25-3470
CCHS Precast Buildings
ID - CVBS
Floor - FP-01
Weight - 5,975
1 Required

SHOP NOTE:
DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF
CAGE TO CENTERLINE OF REBAR AND TO CENTER
OF REBAR TO CENTER OF REBAR



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

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY
MK001	#3 X 9'-10 3/4"	2
MK002	#3 X 11'-10 3/4"	4
MK003	#3 X 3'-0"	11
S1	1/2" Ø X 50'-0" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY
M1	W4XW4 4"X4" WWF 9'-10 3/4" X 11'-10 3/4"	1

- 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: DATE: DATE:

APPROVED BY: DATE: DATE: DATE:

PRODUCT	SALES ORDER NUMBER
BUILDING	101208C
SHEET NUMBER	NUMBER REQUIRED
2 OF 2	1

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

PROJECT: 10'X12'X8' GATE HOUSE BUILDING
5185 FORT CAMPBELL BOULEVARD
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SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.01.26
PIECE MARK FP-01

PT Check for Gate House Floor FP-01 (PCI MNL - 1)

Material Data

(7) Wire lo-lax Strand - ASTM A416

Φ_{ps} 0.500 in,

A_s 0.153 in²

E 28500000 psi

f_{pu} 270 ksi

Strand Length **564 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 = $\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$

= 3.35 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 $t = \frac{966 \text{ lbs}}{966 \text{ lbs}} \alpha = \text{curvature} = \pi(2.5) \quad 7.85 \text{ radians}$

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

= 0.653

Avg. strand force = 0.827 17.33% 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

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

= 0.808

Avg. strand force over

half of tendon = 0.904 9.58% Loss

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

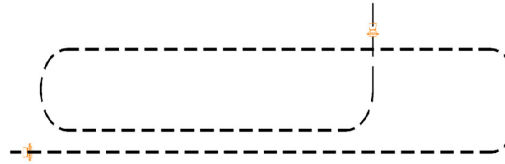
Elong. Adjustment = 0.321 in

Force Adjustment = 2771 lbs

Total Force Required = 32655 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation	3.35 in		
Dead End Seating Loss	0.125 in		
Live End Seating Loss	0.125 in		
Friction Losses	0.321 in		
Total Elongation	3.92 in		
Rounded	3 15/16 in		
Tolerance limits	-7.0%	3.65 in	3 10/16 in
	+7.0%	4.20 in	4 3/16 in



Cable Configuration

25-3470

CCHS Precast Buildings

ID - CVBS

Floor - FP-01

Weight - 5,975

1 Required