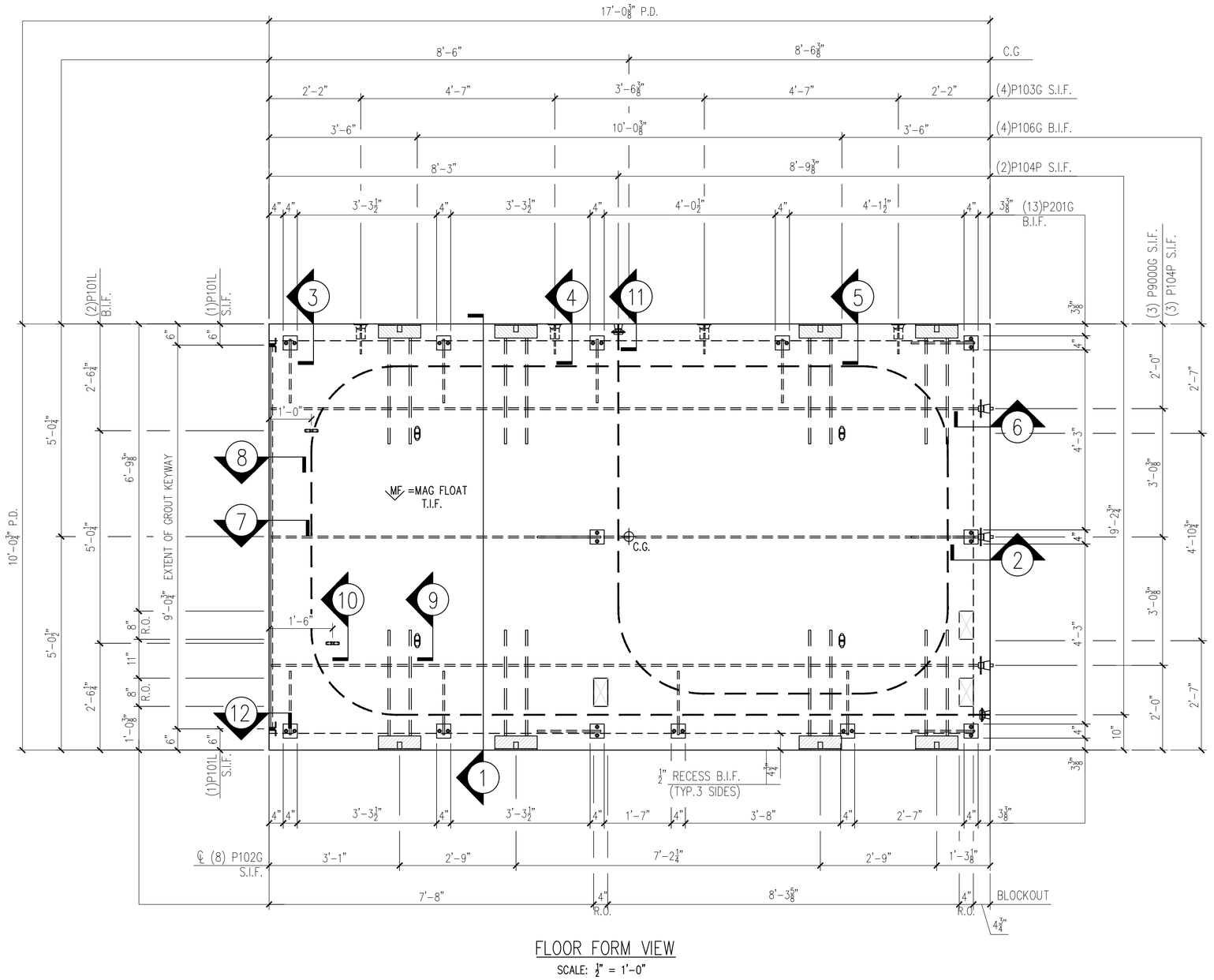
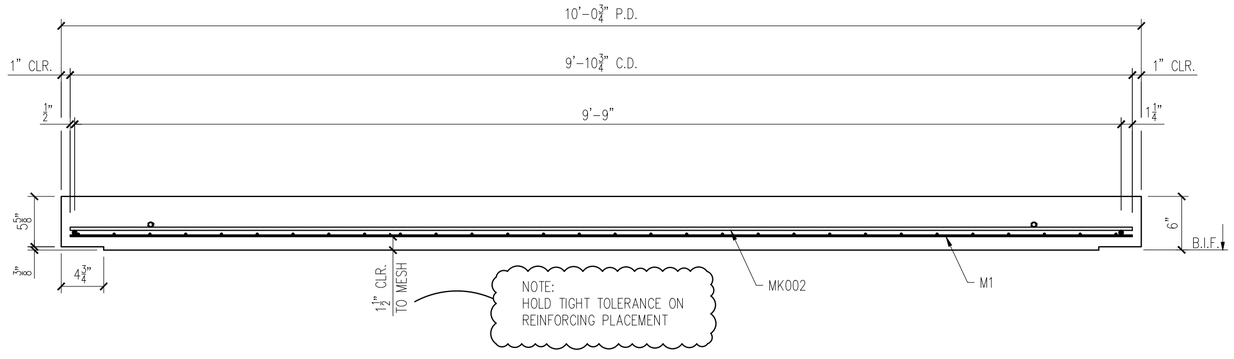
25-3470
CCHS Precast Buildings
Pressbox
ID - CVBS
Floor - FP-01
Weight - 12,805
1 Required



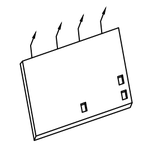
FLOOR FORM VIEW
SCALE: 1/2" = 1'-0"

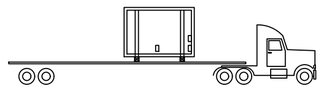


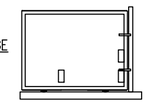
BILL OF MATERIALS

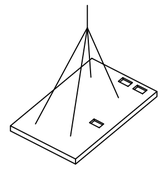
MARK #	DESCRIPTION	QTY.
P201G	4"x4"x3/8" W/ (2) 5/8"ø x 1 1/2" H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	13
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	5
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	4
P102G	ESW P-4 LIFTING ANGLE (GALV.)	8
P9000G	1"ø E.M.T. TUBE 16'-10 7/8" LONG (GALV.)	3
P106G	2 TON PLATE ANCHOR (GALV.)	4
P101L	1/2"ø X 1 3/4" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	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 = 3.16 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 3.16 C.Y.

WEIGHT: 12,805 LBS.

FINISHING INSTRUCTIONS

MF = MAG FLOAT FINISH

FF = FORM FINISH

L = 17'-0 3/8"	SQ.FT.(T.I.F.) = 170.71
W = 10'-0 3/4"	SQ.FT.(T.I.F.) = -
D = 6"	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:
-
-

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

MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

2. SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE DOWN

CHECKED BY: DATE:

APPROVED BY: DATE:

1

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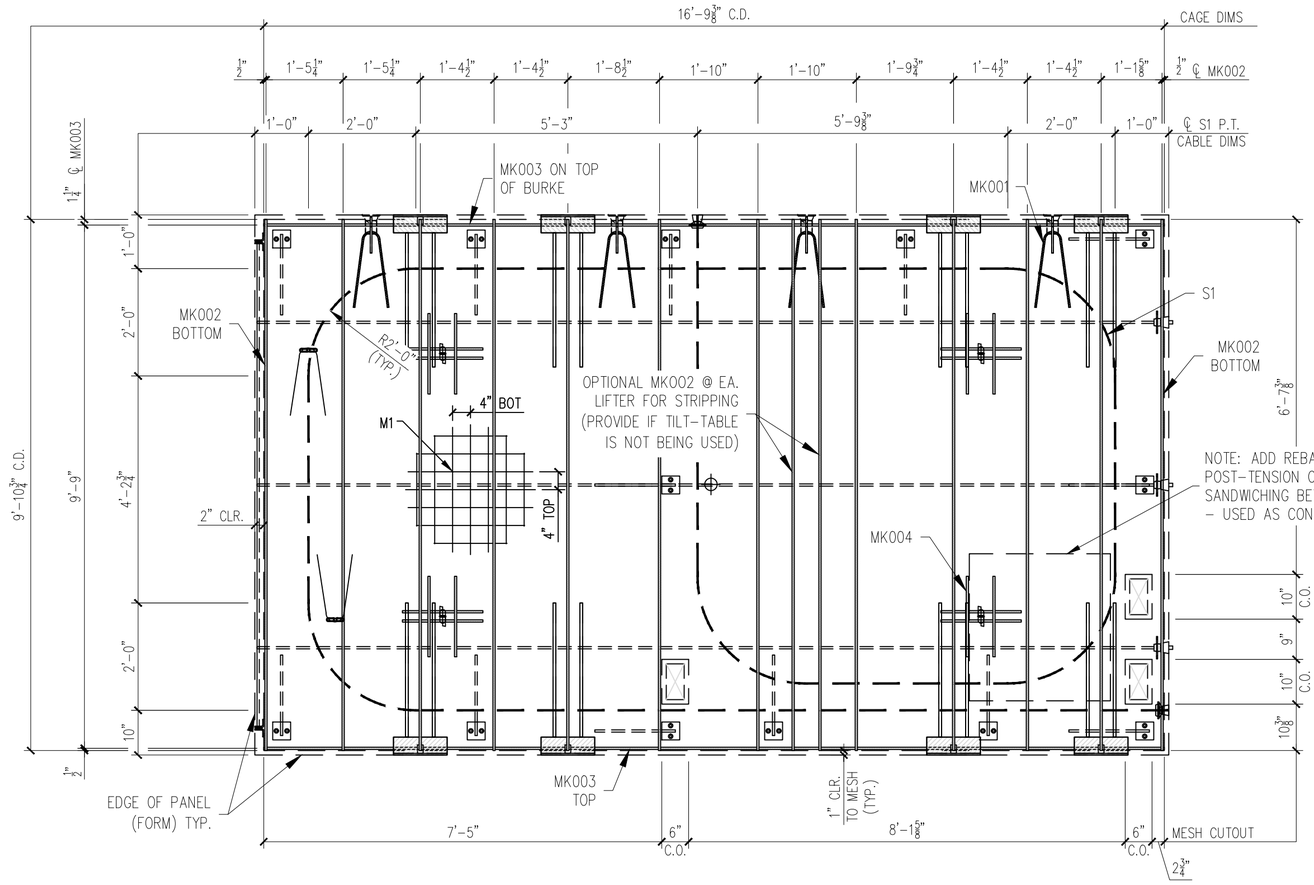
DESCRIPTION	DATE	INI.	REV
-	-	-	1
-	-	-	2
-	-	-	3
-	-	-	4
-	-	-	5

PROJECT: 34'X10'X22' SOCCER PRESSBOX
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.14.26

PIECE MARK
FP-01

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)



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

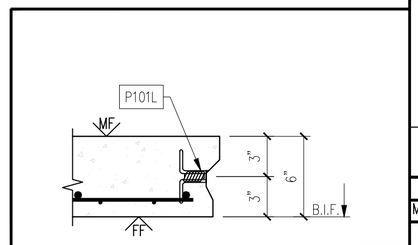
25-3470
CCHS Precast Buildings
Pressbox
ID - CVBS
Floor - FP-01
Weight - 12,805
1 Required

REINFORCING SCHEDULE

MARK #	DESCRIPTION	QTY.
MK001	#3 X 3'-0"	6
MK002	#3 X 9'-10 3/4"	12
MK003	#3 X 16'-9 1/4"	2
MK004	#4 X 1'-6"	16
S1	1/2"ø X 62'-3" LONG P.T. CABLE	1

MESH SCHEDULE

MARK #	DESCRIPTION	QTY.
M1	W4XW4 4"X4" WWF 16'-9 3/8" X 9'-10 3/4"	1



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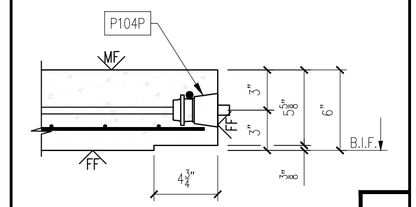

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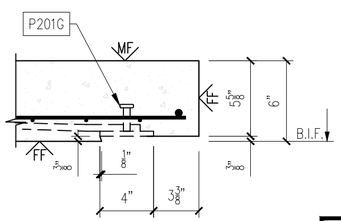

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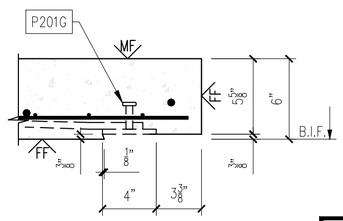

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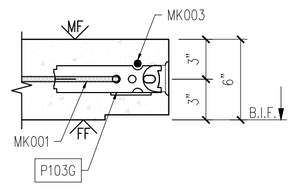

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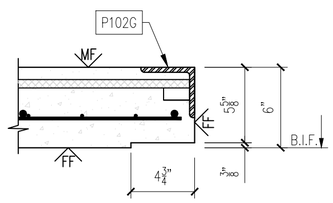

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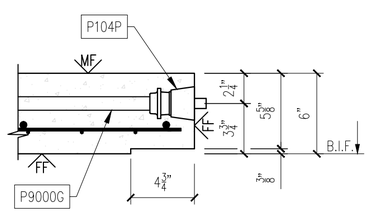

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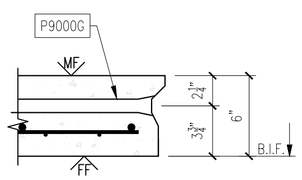

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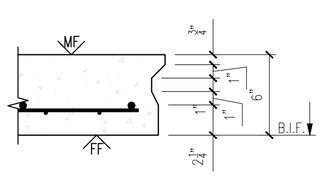

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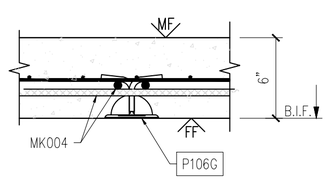

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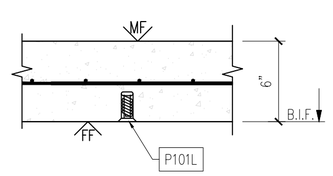

10

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:

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

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

PROJECT: 34'X10'X22' SOCCER PRESSBOX
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE	NTS
DRAWN BY	FTL
CHECK BY	WCR
ISSUE DATE	07.14.26
PIECE MARK	FP-01

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EASI-SET BUILDINGS

PT Check for Floor Panels FP-01 (PCI MNL - 116)

Material Data
(7) Wire lo-lax Strand - ASTM A416

Φps	0.500 in,
A=	0.153 in²
E=	28500000 psi
fpu=	270 ksi
Strand Length	711 in

Assume (Info supplied by strand manufacturer)

Cable Configuration

25-3470
CCHS Precast Buildings
Pressbox
ID - CVBS
Floor - FP-01
Weight - 12,805
1 Required

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

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

= 4.23 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 = 767 lbs lbs α = curvature = π(2.5) 7.85 radians
c) Friction losses $\frac{PD}{PS} = e^{-(kL+\mu\alpha)}$

= 0.648
Avg. strand force = 0.824 17.61% Loss

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

= 0.805
Avg. strand force over half of tendon = 0.902 9.76% Loss

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

Elong. Adjustment = 0.412 in
Force Adjustment = 2821 lbs

Total Force Required = 32505 lbs OK

Elongation Summary:

		Gross Theoretical Elongation	
Basic Elongation		4.23 in	
Dead End Seating Loss		0.125 in	
Live End Seating Loss		0.125 in	
Friction Losses		0.412 in	
	Total Elongation	4.89 in	
	Rounded	4 14/16 in	
Tolerance limits	-7.0%	4.55 in	4 9/16 in
	+7.0%	5.23 in	5 4/16 in