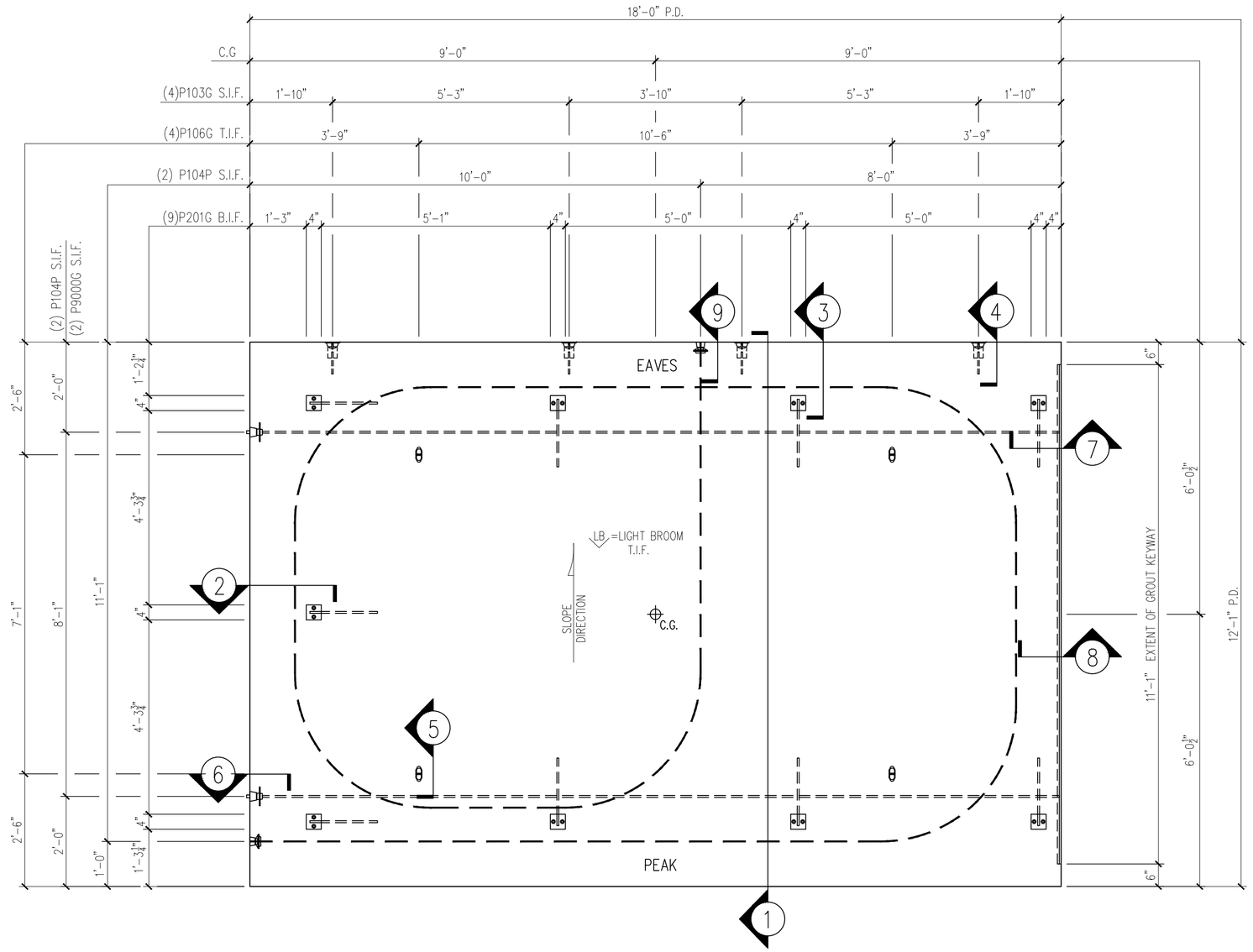
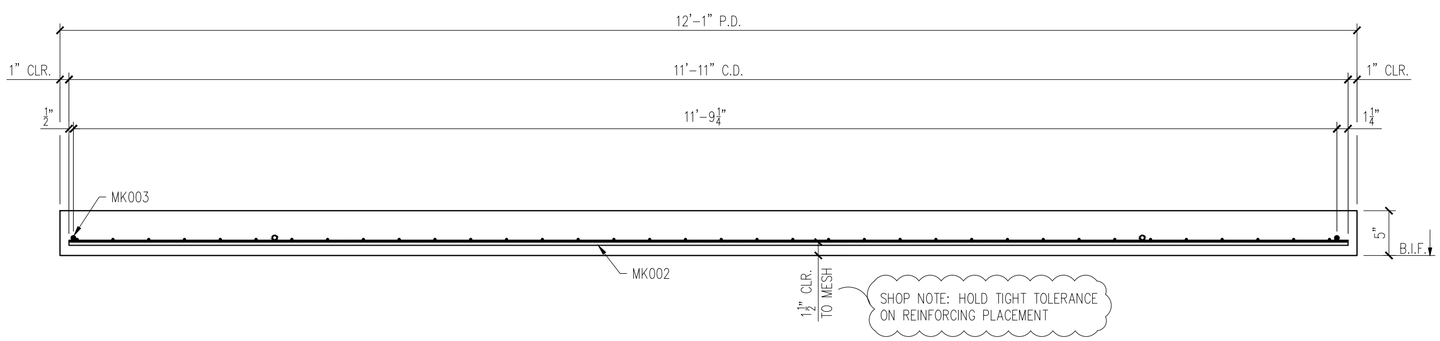
25-3470
CCHS Precast Buildings
Pressbox
ID - CVT
Roof - RP-03
Weight - 13,595
1 Required



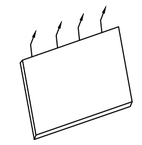
ROOF FORM VIEW
SCALE: ½" = 1'-0"

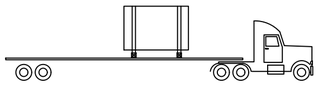


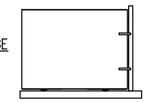
BILL OF MATERIALS

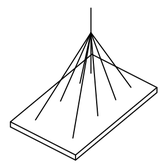
MARK #	DESCRIPTION	QTY.
P201G	4"x4"x⅜" W/(2) ⅝"Øx1½" H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	9
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	4
P106G	2 TON PLATE ANCHOR (GALV.)	4
P9000G	1"Ø E.M.T. TUBE 17'-8" LONG (GALV.)	2

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 = 3.35 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 3.35 C.Y.

WEIGHT: 13,595 LBS.

FINISHING INSTRUCTIONS

LB = LIGHT BROOM FINISH

FF = FORM FINISH

L = 12'-1"	SQ.FT.(T.I.F.) =217.50
W = 18'-0"	SQ.FT.(T.I.F.) = -
D = 5"	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:
-
-

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:

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

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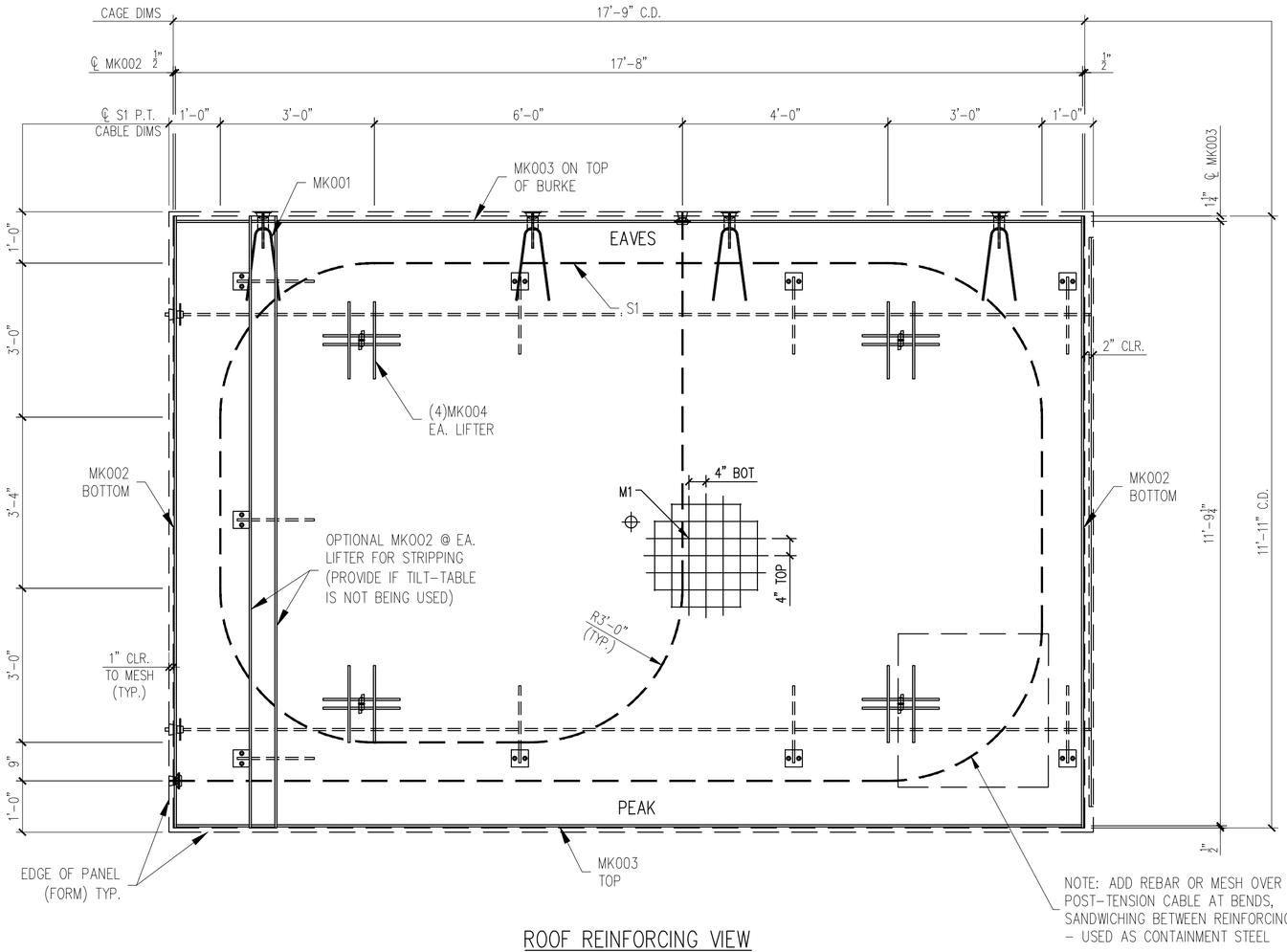
INI.	REV	DESCRIPTION	DATE
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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
RP-03

1



ROOF REINFORCING VIEW

SCALE: ½" = 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)

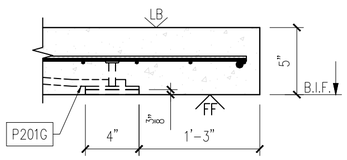
25-3470
CCHS Precast Buildings
Pressbox
ID - CVT
Roof - RP-03
Weight - 13,595
1 Required

REINFORCING SCHEDULE

MARK #	DESCRIPTION	QTY.
MK001	#3 X 3'-0"	4
MK002	#3 X 11'-11"	2
MK003	#3 X 17'-9"	2
MK004	#4 X 1'-6"	16
S1	½"ø X 68'-4" LONG P.T. CABLE	1

MESH SCHEDULE

MARK #	DESCRIPTION	QTY.
M1	W4XW4 4"X4" WWF 17'-9" X 11'-11"	1



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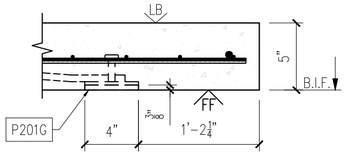

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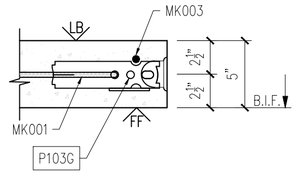

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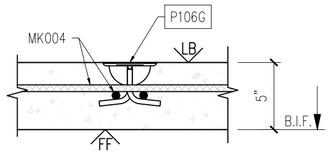

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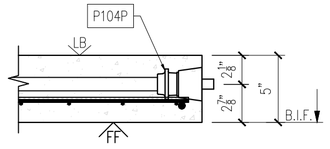

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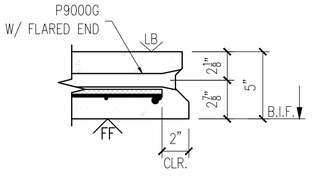

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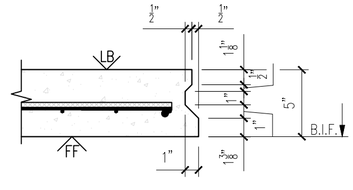

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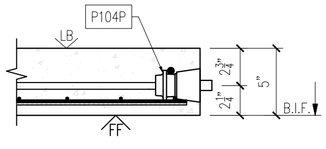

9

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

PROJECT: 34'x10'x22' SOCCER PRESSBOX
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PIECE MARK RP-03

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EASI-SET BUILDINGS

PT Check for Roof Panels RP-03/RP-04 (PCI MNL -

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	784 in

Assume (Info supplied by strand manufacturer)

Cable Configuration

25-3470
CCHS Precast Buildings
Pressbox
ID - CVT
Roof - RP-03
Weight - 13,595
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

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

= 4.66 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 = 695 lbs lbs α = curvature = π(2.5) 7.85 radians
c) Friction losses $\frac{PD}{PS} = e^{-(kL+\mu\alpha)}$

= 0.645
Avg. strand force = 0.823 17.75% 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
$\frac{PD}{PS} = e^{\frac{-(kL+\mu\alpha)}{2}}$

= 0.803
Avg. strand force over half of tendon = 0.902 9.84% Loss

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

Elong. Adjustment = 0.459 in
Force Adjustment = 2846 lbs

Total Force Required = 32458 lbs OK

Elongation Summary:

		Gross Theoretical Elongation		
Basic Elongation		4.66 in		
Dead End Seating Loss		0.125 in		
Live End Seating Loss		0.125 in		
Friction Losses		0.459 in		
	Total Elongation	5.37 in		
	Rounded	5 6/16 in		
Tolerance limits	-7.0%	4.99 in	5	in
	+7.0%	5.74 in	5 12/16	in