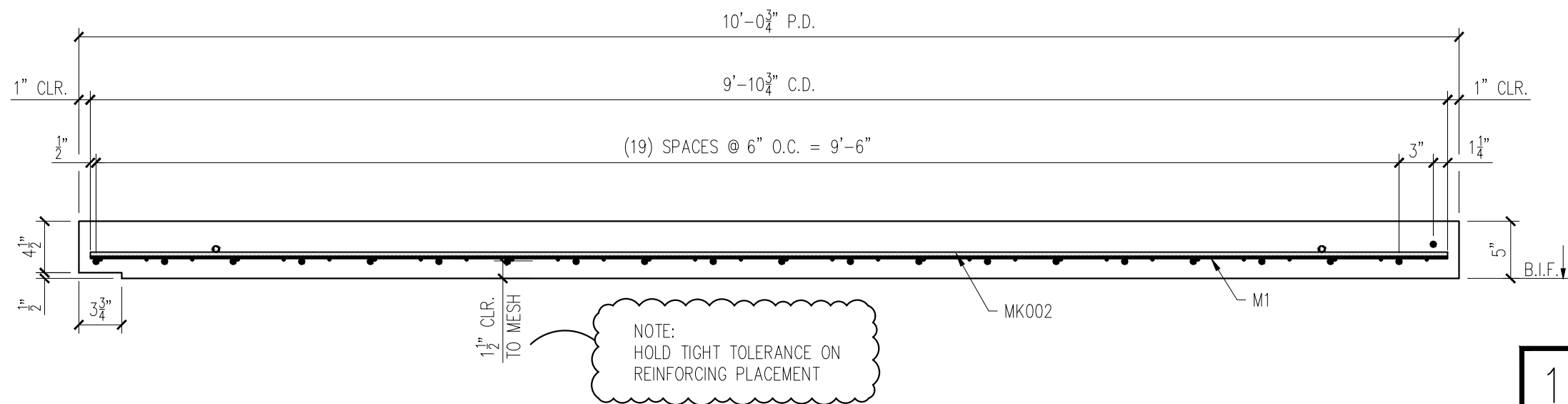


25-3470P7
Baseball Dugout 7C
ID - CVBS
Floor - FP-02
Weight - 18,770
1 Required



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

MESSAGE CENTER

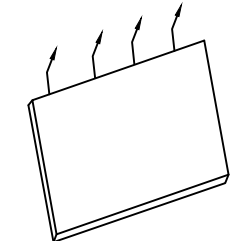
1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

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

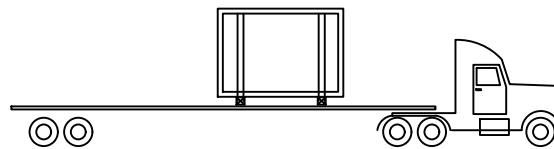
CHECKED BY: DATE:
APPROVED BY: DATE:

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)	13
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 29'-10 1/8" LONG (GALV.)	2
P106G	2 TON PLATE ANCHOR QL128G OR EQUAL (GALV.)	8
P101L	1/2"Ø X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	6

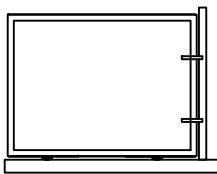
HANDLING INSTRUCTIONS



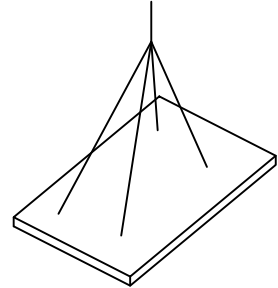
STRIPPING-TILT TABLE



SHIPPING



YARD STORAGE



ERECTION

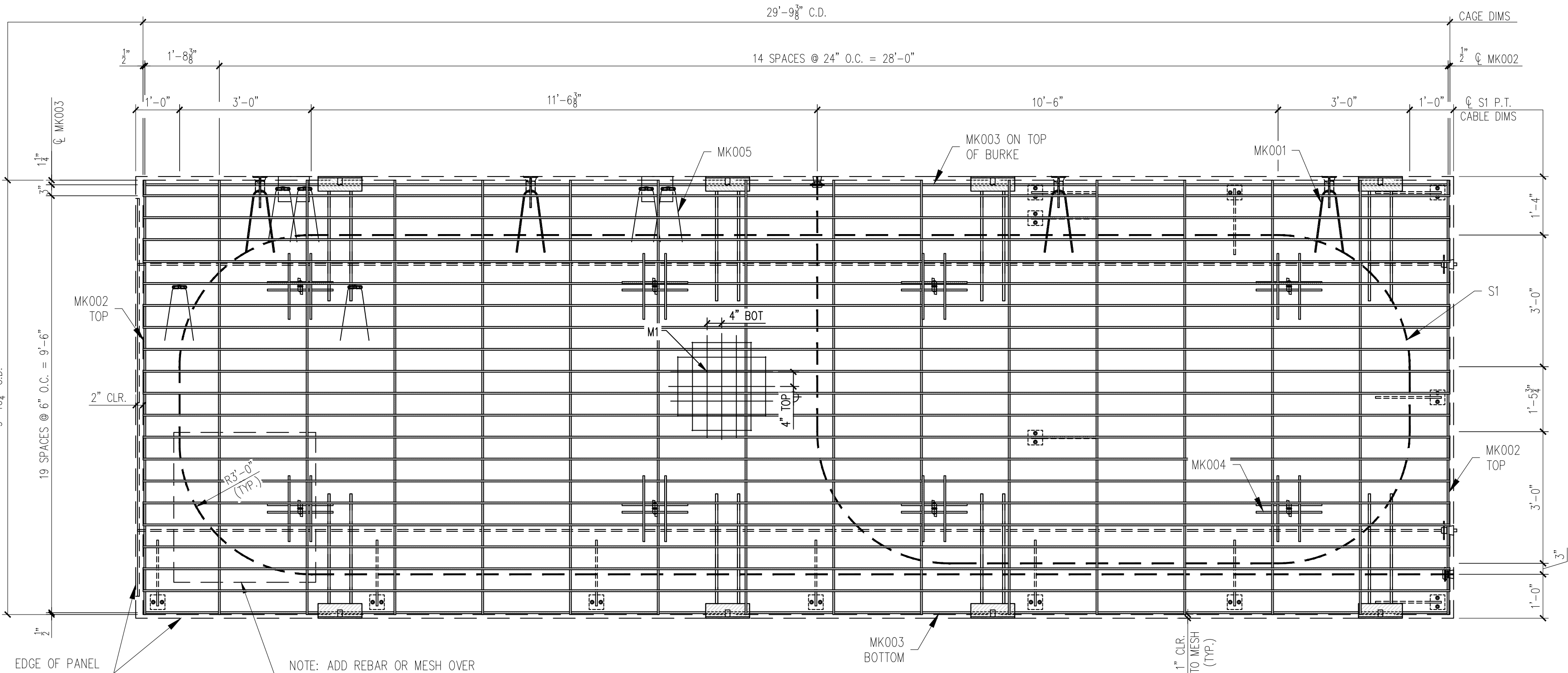
CONCRETE INSTRUCTIONS	
CONCRETE @ RELEASE: 2,500 P.S.I.	
CONCRETE @ 28 DAYS: 5,000 P.S.I.	
POST-TENSION @ 3,500 P.S.I.	
CONCRETE MIXES	
CONCRETE - GRAY	VOLUME = 4.63 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 4.63 C.Y.
WEIGHT: 18,770 LBS.	
FINISHING INSTRUCTIONS	
MF = MAG FLOAT FINISH	
FF = FORM FINISH	
L = 30'-0 3/8"	SQ.FT.(T.I.F.) = 300.27
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

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DATE	REV	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT: 60'x10'x9'-10" BASEBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 08.04.26
PIECE MARK FP-02



REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY
MK001	#4 X 4'-0"	4
MK002	#3 X 9'-10 $\frac{3}{4}$ "	16
MK003	#3 X 29'-9 $\frac{1}{4}$ "	21
MK004	#4 X 1'-6"	32
MK005	#3 X 3'-0"	6
S1	$\frac{1}{2}$ " Ø X 91'-2" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY
M1	W4XW4 4"X4" WWF 29'-9 $\frac{3}{8}$ " X 9'-10 $\frac{3}{4}$ "	1

25-3470P7
Baseball Dugout 7C
ID - CVBS
Floor - FP-02
Weight - 18,770
1 Required

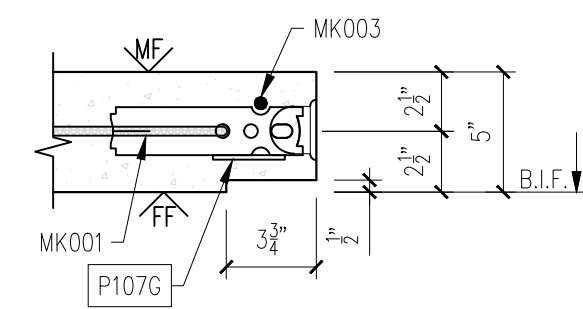
- NOTES:
1. TRIM PLASTIC SHEATH AT BOTH ENDS OF THE PT CABLE TO FIT BETWEEN U-5 ANCHOR PLATES
 2. CONSTRUCT REBAR-MESH CAGE ACCORDING TO THE DRAWINGS. SECURE LIFTING APPARATUS TO FORM AND ADD PROPER REINFORCEMENT. PLACE REBAR-MESH CAGE AND HAIRPINS AT INSERTS WITH PROPER CLEARANCES (PER DRAWINGS).
 3.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

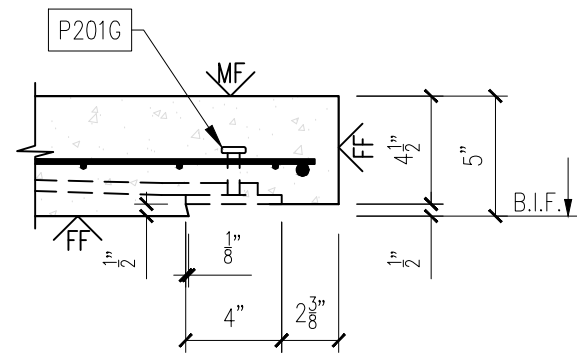
DATE	REV	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT: 60'x10'x9'-10" BASEBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
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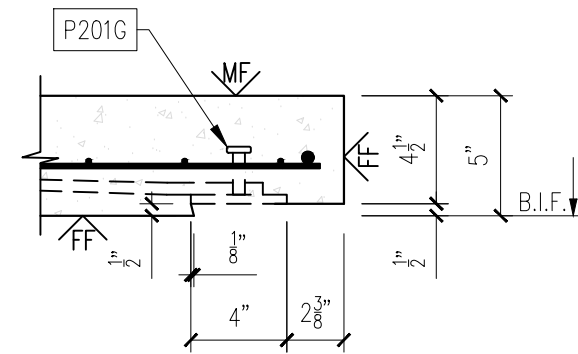
SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 08.04.26
PIECE MARK FP-02



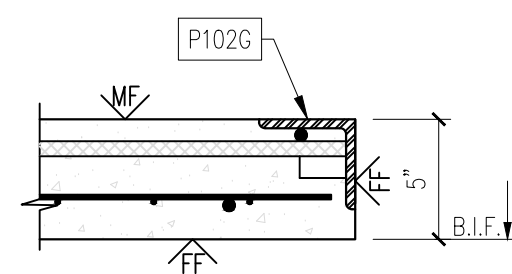
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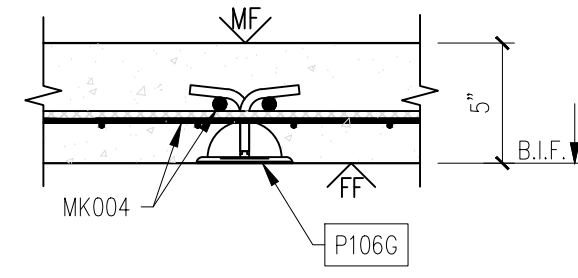
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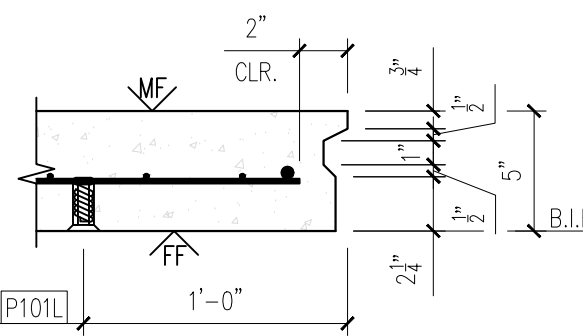
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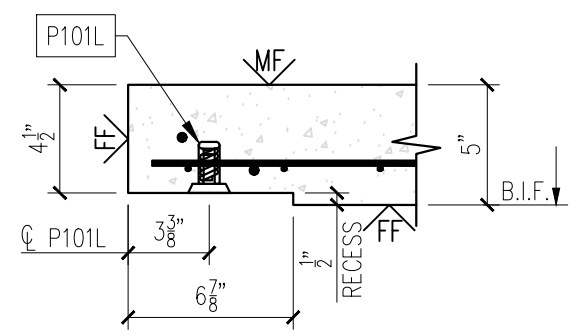
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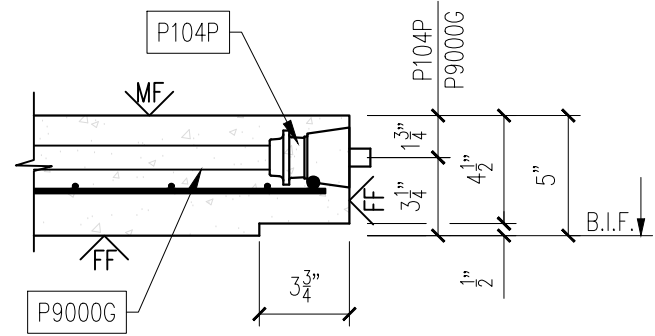
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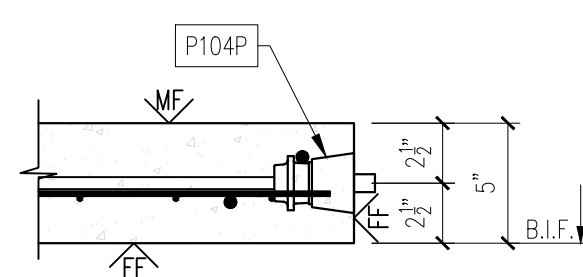
7



8



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:

PT Check for FP-01 & FP-02 60' Dugout(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 **1058 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 =
$$\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$$

= 6.29 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 = 515 lbs lbs $\alpha = \text{curvature} = \pi(2.5) \quad 7.85 \text{ radians}$

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

= 0.635

Avg. strand force = 0.817 18.26% 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

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

= 0.797

Avg. strand force over

half of tendon = 0.898 10.16% Loss

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

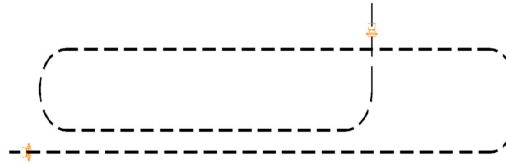
Elong. Adjustment = 0.639 in

Force Adjustment = 2939 lbs

Total Force Required = 32371 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation		6.29 in	
Dead End Seating Loss		0.125 in	
Live End Seating Loss		0.125 in	
Friction Losses		0.639 in	
Total Elongation		7.18 in	
Rounded		7 3/16 in	
Tolerance limits	-7.0%	6.67 in	6 11/16 in
	+7.0%	7.68 in	7 11/16 in



Cable Configuration

**25-3470P7
Baseball Dugout 7C
ID - CVBS
Floor - FP-02
Weight - 18,770
1 Required**