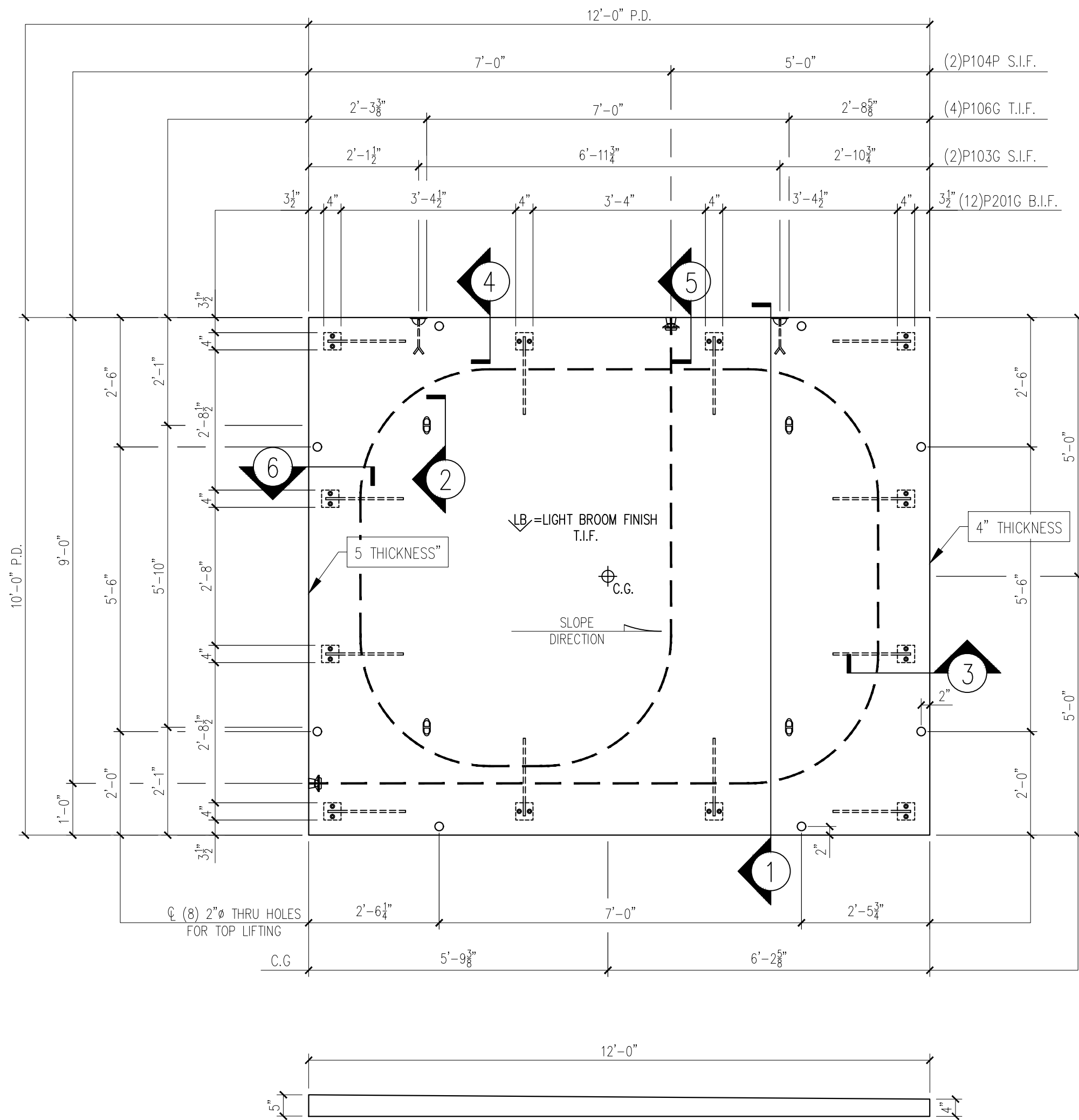
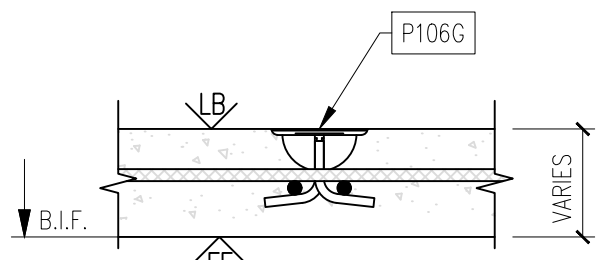
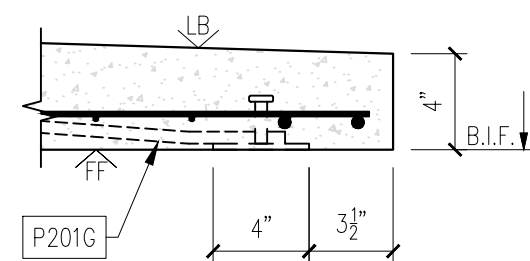
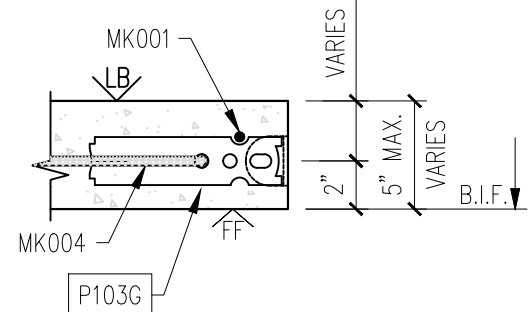
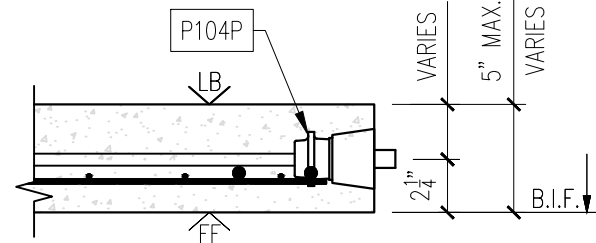
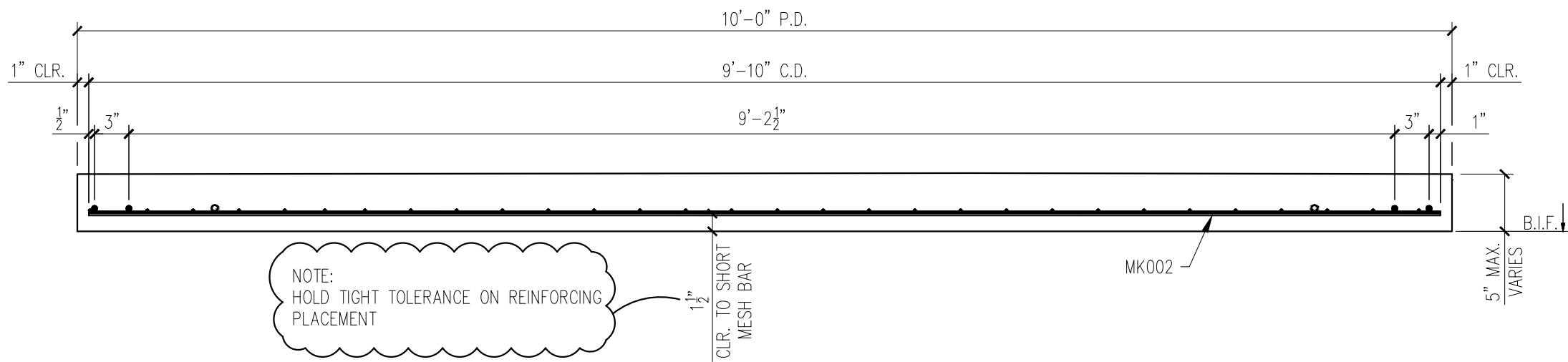


26-1206 - Honeywell Telecommunication Room
Precast Building
Product ID - CVT
ROOM - RF-01
Weight - 6,740 LBS Each
1 Required



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



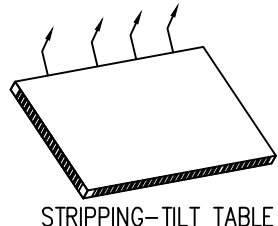
MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
2. SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE UP

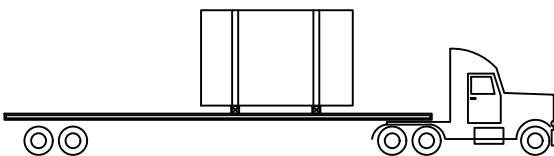
CHECKED BY: DATE:
APPROVED BY: DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY
P201G	4"x4"x8" W/(2) 3/8" Ø X 1 1/2" H.A.S. W/ 1'-4" BENT REBAR (GALVANIZED)	12
P103G	2 TON RL-4 TECH ERECTION ANCHOR (79527SP) (GALV.)	2
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	2
P106G	2 TON PLATE ANCHOR (79128) (GALV.)	4

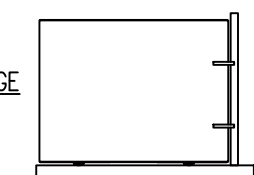
HANDLING INSTRUCTIONS



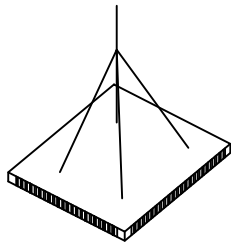
STRIPPING-TILT TABLE



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 = 1.66	C.Y.
CONCRETE - MIX 1	VOLUME = -	C.Y.
CONCRETE - MIX 2	VOLUME = -	C.Y.
SOFT SOUND	VOLUME = -	C.Y.
TOTALS	VOLUME = 1.66	C.Y.
WEIGHT: 6,740 LBS.		

FINISHING INSTRUCTIONS

LB = LIGHT BROOM FINISH
FF = FORM FINISH

L = 10'-0"	SQ.FT.(T.I.F.) = 119.82
W = 12'-0"	SQ.FT.(T.I.F.) = -
D = VARIES	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:

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

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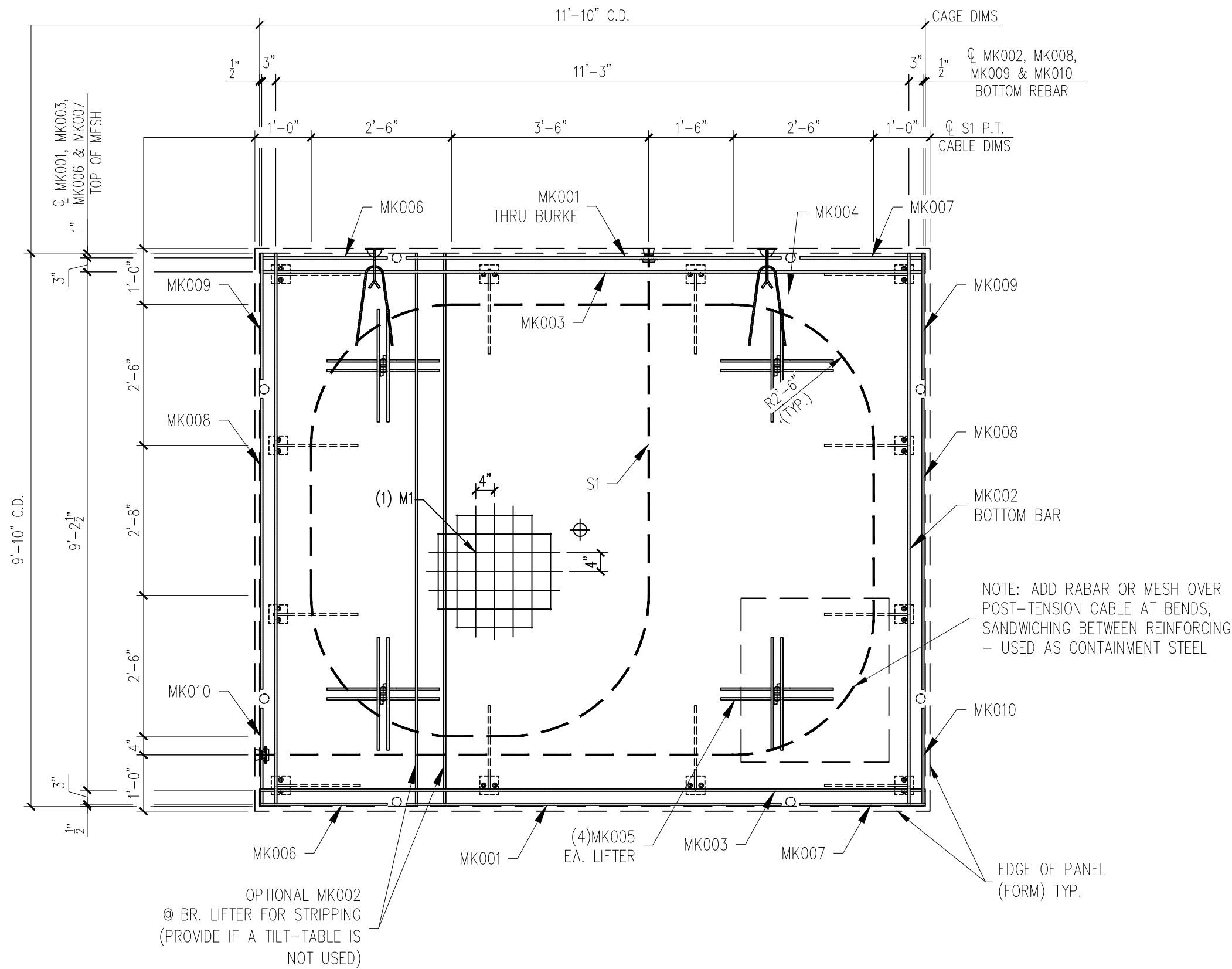
REV	DESCRIPTION	DATE
INI.		

PROJECT: 10'x12'x9' EASI-SET BUILDING
HONEYWELL TELECOMM BUILDING
KANSAS CITY, MO
CONTRACTOR: MUSSELMAN AND HALL CONT.

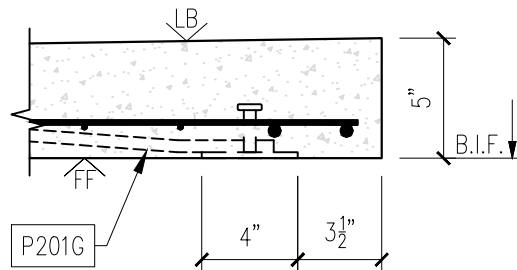
SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 05.11.26
PIECE MARK RF-01

26-1206 - Honeywell Telecommunication Room
Precast Building
Product ID - CVT
ROOM - RF-01
Weight - 6,740 LBS Each
1 Required

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)



ROOF REINFORCING
SCALE: 1/2" = 1'-0"



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
ESW BUILDING	-
SHEET NUMBER	NUMBER REQUIRED
2 OF 2	1

12

11

10

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY
MK001	#3 X 6'-8" 6'-8"	2
MK002	#3 X 9'-10" 9'-10"	2
MK003	#3 X 11'-10" 11'-10"	2
MK004	#3 X 3'-0" 1'-6" 1'-6"	2
MK005	#4 X 1'-6" 1'-6"	16
MK006	#3 X 2'-3 1/4" 2'-3 1/4"	2
MK007	#3 X 2'-2 3/4" 2'-2 3/4"	2
MK008	#3 X 5'-2" 5'-2"	2
MK009	#3 X 2'-3" 2'-3"	2
MK010	#3 X 1'-9" 1'-9"	2
S1	1/2" Ø X 49'-0" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY
M1	W4XW4 4"X4" WWF 11'-10" X 9'-10"	1

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

PROJECT: 10'x12'x9' EASI-SET BUILDING
HONEYWELL TELECOMM BUILDING
KANSAS CITY, MO
CONTRACTOR: MUSSELMAN AND HALL CONT.

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 05.11.26
PIECE MARK RF-01

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PT Check for Roof Panel RF-01 (PCI MNL - 116)

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 **552 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

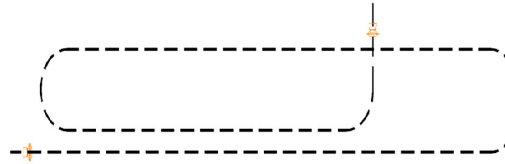
~ Expected to be 1/8 in, recommend over pull 1/8"

3) Elastic Shortening

Neglect for this pnl

4) Friction Loss

Additional force to overcome frictional forces between strand and sheathing



Cable Configuration

**25-1206 - Honeywell Telecommunication Room
Precast Building
Product ID - CVT
ROOM - RF-01
Weight - 6,740 LBS Each
1 Required**

Tensioning Computations

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

= 3.28 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 $t = \frac{987 \text{ lbs}}{270 \text{ ksi}} = \alpha = \text{curvature} = \pi(2.5) = 7.85 \text{ radians}$

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

= 0.654

Avg. strand force = 0.827 17.31% 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

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

= 0.809

Avg. strand force over

half of tendon = 0.904 9.57% Loss

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

Elong. Adjustment = 0.314 in

Force Adjustment = 2767 lbs

Total Force Required = 32672 lbs **OK**

Elongation Summary:

	Gross Theoretical Elongation			
Basic Elongation		3.28 in		
Dead End Seating Loss		0.125 in		
Live End Seating Loss		0.125 in		
Friction Losses		0.314 in		
Total Elongation		3.84 in		
Rounded		3 14/16 in		
Tolerance limits	-7.0%	3.58 in	3	9/16 in
	+7.0%	4.11 in	4	2/16 in