



STRUXC-MC

CONSTRUCTION CHANGE AUTHORIZATION

CO # 5

Project name: Moser Tower Rehabilitation
 Location: 443 Aurora Ave., Naperville, IL 60540
 Contract for: Moser Tower Rehabilitation
 Date of Original Contract: May 19, 2021
 Date of this Change Order: May 16, 2022

Attn: William Novack
 630-420-6704

The above contract between the Owner and General Contractor is changed as follows:

Description

| | |
|--|--------------------|
| Additional engineering and scaffolding work to allow Verizon and T-mobile antenas relocation | \$26,460.00 |
| Disconnect and remove existing light poles_2 Ea. | \$2,800.00 |
| Credit: Eliminate excavation and footing for the monument piers_2 Ea. | -\$3,000.00 |
| Subtotal | \$26,260.00 |
| OH & Profit | \$3,939.00 |
| Total CO | \$30,199.00 |

| | |
|--------------------------|----------------|
| Original Contract amount | \$2,092,152.00 |
| Previous changes | \$16,000.40 |
| Previous Contract total | \$2,108,152.40 |
| AMOUNT OF THIS CHANGE | \$30,199.00 |
| Revised Contract | \$2,138,351.40 |

The Contract time is extended as follows:
 The revised Completion Date is

Contractor is authorized and directed to proceed with the above work upon receipt of this Change Order unless other direction has given in writing

StruxC-MC LLC.

By [Signature]

Date: 5/24/22

Engineering Resource Associates, Inc.

By [Signature]

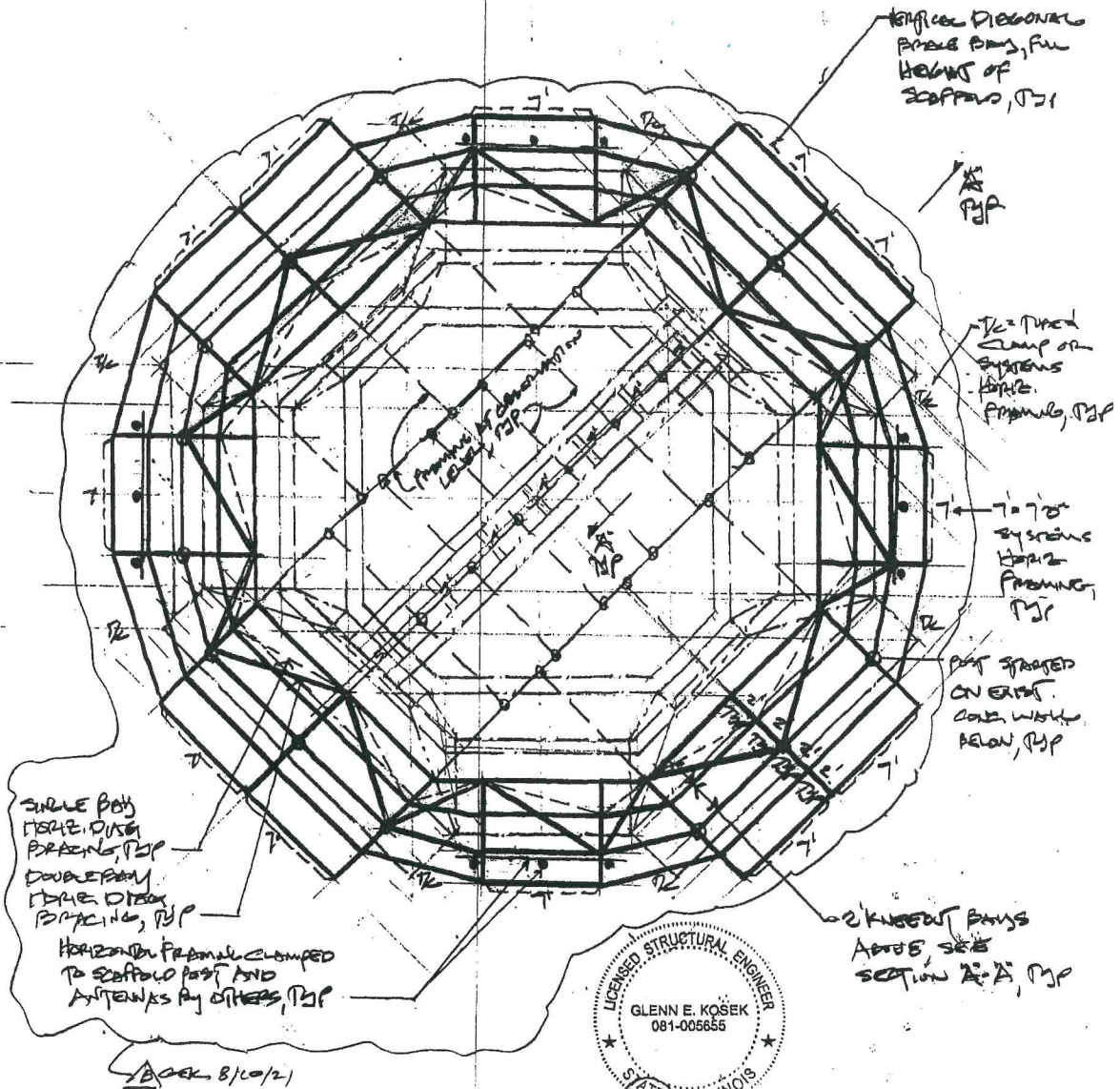
Date: 05/19/2022

City of Naperville

By [Signature]

Date: 5/24/22

FINAL - AS-BUILT DRAWINGS



SINGLE BOY
TUBE OVER
FRAMING, PJP
DOUBLE BOY
TUBE OVER
FRAMING, PJP
HORIZONTAL FRAMING CLAMPED
TO SCAFFOLD POST AND
ANTENNAS BY OTHERS, PJP

7/8\"/>

7/8\"/>

POST SPACED
ON EXIST.
GRID WITH
BELOW, PJP

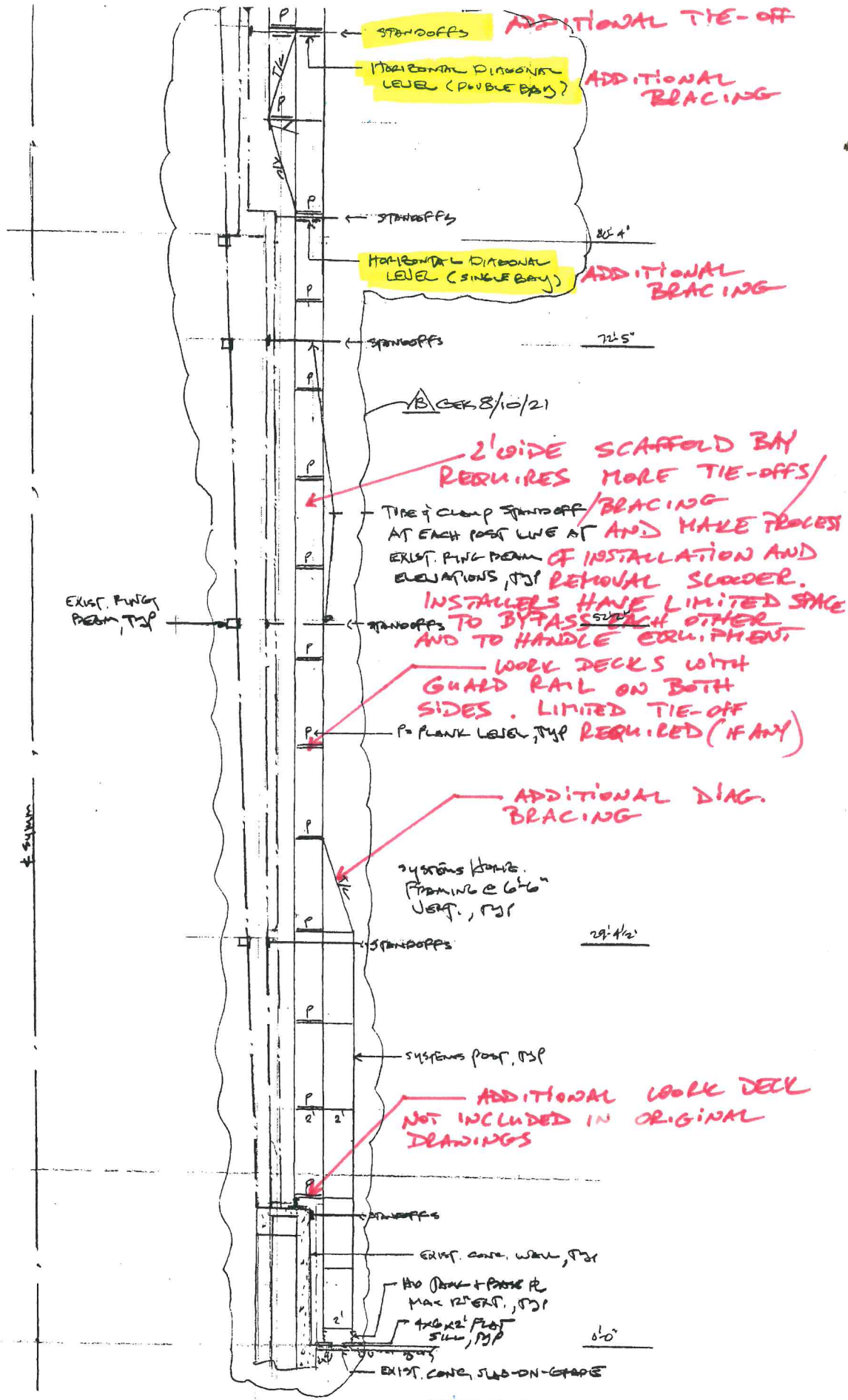
2\"/>



Signature: *[Signature]*
 Date: 6/16/21
 License Expires November 30, 2021 (REV/D GEL 8/10/21)
 SHS 1-5 (SH/4.1 ADDED)
 REV/A GEL 7/13/21 (REV/E GEL 8/14/21)

Scaffold Framing Plan
 1/8\"/>

| | | | | |
|------------|--|---------------------------|---------------------|-------------------------|
| SHEET 1 | GK ENGINEERING, INC. 888 WEST 67TH STREET WESTMONT, IL 60559 | PROJECT | CLIENT | PROJECT |
| | | MOVER POWER NAPERVILLE | LOWE SCAFFOLDING | 21154 GEL 6/16/21 |



ADDITIONAL TIE-OFF

ADDITIONAL BRACING

ADDITIONAL BRACING

2' WIDE SCAFFOLD BAY REQUIRES MORE TIE-OFFS

TIE-OFF CLAMP STANDOFF/BRACING AT EACH POST LINE AT AND MAKE PROCESS EXIST. FINISH BEAM OF INSTALLATION AND ELEVATIONS, NOT REMOVAL SLOWER.

INSTALLERS HAVE LIMITED SPACE TO BYPASS EACH OTHER AND TO HANDLE EQUIPMENT

WORK DECKS WITH GUARD RAIL ON BOTH SIDES. LIMITED TIE-OFF REQUIRED (IF ANY)

ADDITIONAL DIAG. BRACING

SYSTEMS HOVING FRAMING @ 6" VERT. NOT

ADDITIONAL WORK DECK NOT INCLUDED IN ORIGINAL DRAWINGS

MOIST-TOWER
C/100
EX-FNG. INC.
PROJ # 2154
SATZ

SECTION X-X (LOWER PORTION)
1/8" = 1'-0"

100'-0" 78

1/8 GCR 8/10/21

ADDITIONAL BRACING

ADDITIONAL BRACING

1/8 GCR 7/13/21

134'-0"

FOR ANTENNAS

HORIZONTAL DIAGONAL LEVEL (DOUBLE BAY)

STANDOFFS AND HORIZONTAL DIAGONALS ABOVE & BELOW ANTENNA LEVEL TO ACCOUNT FOR ADDITIONAL WIND LOADING DUE TO ANTENNAS ON SCAFFOLD

1/8 GCR 8/14/21

ANTENNA AND CONNECTIONS TO VERTICAL SCAFFOLD POST BY OTHERS

MAXIMUM 100 LBS ALLOWANCE FOR ANTENNA WEIGHT, EACH EXTERNAL POST

STANDOFFS

FOR ANTENNAS

ADD PERIMETER PLANKING FOR ACCESS TO ANTENNAS

FOR ANTENNAS

HORIZONTAL DIAGONAL LEVEL (DOUBLE BAY)

FOR ANTENNAS

SYSTEM VERT. POST, P/S/P

STANDOFFS

112'-0"

HORIZONTAL DIAGONAL LEVEL (SINGLE BAY)

ADDITIONAL BRACING

ADDITIONAL BRACING

98'-7"

SECTION A-A (UPPER PORTION)

1/0'-0"

MODEL (POWER GUY) GUY CABLE, W.C. PROJ # 21154 SUR 2

SCAFFOLD POST LOAD CALCULATIONS, CRITICAL POST LIFE

COMPONENT

| | |
|--|----------------------|
| POST, JACK & TIE | 35 [#] |
| SYSTEMS POST 9 [#] (12' + 6' + 10') | 896 |
| HUARDS 3 [#] [1'(40) + 2'(22)] | 972 |
| GUMMOPANUS 3 [#] (1')(62) | 1302 |
| 2" BRKT & TIE KB. 50 [#] (7) | 100 |
| PLANK CPWF [1'(1')(12) + 1'(2')(10) + 1'(2.5')(2)] | 1554 [#] |
| MISC | 200 [#] |
| ANTENNA FRAMING & ANTENNA ALLOWANCE PER FOOT | 400 [#] |
| | <hr/> |
| | DL 5451 [#] |

CONST. LIVE LOAD, (1) LEVEL 2.5 PSF, 500[#] MIN

2.5 PSF (2')(1) = 350[#] (USE 500[#]) LL 500[#]

CHECK POST

$P_{UL} = 5451(2.5) + 500(4.0) = 15,635[#] < P_u = 20,000[#] FOR INTERIOR POST$

(OK)

INTERIOR LOAD & BRACING:

COMPONENT

| | |
|---|----------------------|
| POST 1 [#] (100') | 100 [#] |
| HUARDS 3 [#] [1'(20) + 2'(14)] | 504 [#] |
| GR'S 3 [#] (1')(30) | 630 [#] |
| BRKT & TIE 50 [#] (2) | 100 |
| PLANK CPWF (1')(2')(10) | 340 [#] |
| MISC | 100 [#] |
| | <hr/> |
| | DL 2574 [#] |
| CONST LL | LL 500 [#] |

ULTIMATE LOAD: $P_u = 2574(2.5) + 500(4.0) = 8435[#]$

3/4 REVISION/AGEL 3/10/21

| | | | | | | | |
|------------|--|---------|------------|----------|-------|---------|---------|
| SHEET 4 | GK ENGINEERING, INC. 268 WEST 57TH STREET WESTMONT, IL 60559 | PROJECT | MOSA TOWER | CUSTOMER | GILCO | PROJECT | 21202 |
| | | | | | | DATE | 3/10/21 |

ALLOWABLE UPTAKE LOAD

FOR BRACE 1 $500^k (1.0) = 2600^k$

FR (2) T/C BRACES: $1000^k (1.0)(2) = 8000^k$

$10,000^k$ ALLOWED $>$ 8975^k (OK)

WIND LOAD AT ANTENNA'S LEVEL

STIFFNESS LEVEL ABOVE & BELOW ANTENNAS

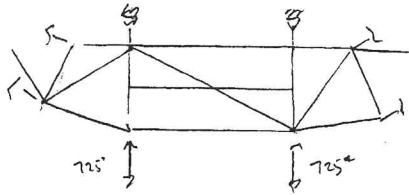
USE 25PSF WIND LOAD, TEMPORARY CONSTRUCTION PERIOD
WIND ON SCAFFOLD FRAMING, TYP. POST LINE, 7' BAY

NODE WIND LOAD = $25PSF (7')(6.5')(25\% EXPOSURE) = 285^k$
SCAFFOLD

WIND ON ANTENNA & ANTENNA FRAMING AT NODE PT

NODE WIND LOAD = $25PSF (7')(10')(50\% EXPOSURE) = 440^k$
ANTENNAS

725^k MAX



MAX BRACE LOAD
USE $725^k (1.414) = 1025^k$

ALLOW. BRACE LOAD
 $= \frac{4000^k}{2.09F} = 2600^k >$ 1025^k

(OK)

| | | | | |
|------------|--|-------------------------|-------------------|--|
| SHEET 4 | GK ENGINEERING, INC. 260 WEST 67TH STREET WESTMONT, IL 60659 | PROJECT MORRIS TOWER | CUSTOMER GILCO | PROJECT: 2/202 BY: GEL DATE: 8/10/21 |
|------------|--|-------------------------|-------------------|--|

General notes:

1. User/erector shall comply w/ scaffold manufacturer safety guidelines and all OSHA regulations regarding scaffolding.
2. Clamp all beams to beams/ u-heads/existing beams w/ 4- jbc or hd c-clamps, 1 each corner of each intersection
3. Contractor shall verify that existing subgrade below existing concrete slab on grade can safely support a uniform pressure of 2000 pounds per square foot at all sill locations.
4. Secure all base plates to timber/wood sills or blocking using 4- 16d nails each plate.
5. All wood joists/blocking shall be douglas fir larch no. 1 or equivalent.
6. All 2x10 plank/sills shall be scaffold grade.
7. Contractor shall verify that existing structure can safely support scaffold loads.
8. THE SCAFFOLD IS RATED FOR (1) LIGHT DUTY WORK LEVEL RATED AT 25 PSF UNIFORMLY DISTRIBUTED LOAD.

MOSER TAVEN

CHLO

GK Engineering Inc., Proj # 2154
SUS