

CITY OF CHICAGO DEPARTMENT OF CONSTRUCTION AND PERMITS							
GENERAL BUILDING REQUIREMENTS Per Chicago Zoning Ordinance (CZO) and Chicago Building Code (CBC) 2019 Edition							
ITEM	ISSUE	CHAPTER/ARTICLE	Ordinance Requirement	Actual	Requiemnt	Location Sheet No.	Agency/ Test No.
ZONING REQUIREMENTS							
1.01	Zoning District	CHAPTER 17-1-400	N/A	N/A	N/A	N/A	N/A
1.02	Lot Area	N/A	N/A	N/A	N/A	N/A	N/A
1.03	Maximum Floor Area Ratio	N/A	N/A	N/A	N/A	N/A	N/A
1.04	Front Building Area	N/A	N/A	N/A	N/A	N/A	N/A
1.05	Building Height - No. of Floors	N/A	N/A	N/A	N/A	N/A	N/A
1.06	Minimum Yards	N/A	N/A	N/A	N/A	N/A	N/A
1.07	Grade Elevation (CC)	N/A	N/A	N/A	N/A	N/A	N/A
1.08	Off Street Loading	CHAPTER 17-10-101	N/A	N/A	N/A	N/A	N/A
1.09	Off Street Parking	CHAPTER 17-10-207	N/A	N/A	N/A	N/A	N/A
1.10	Landscaping	CHAPTER 17-10-050	N/A	N/A	N/A	N/A	N/A
BUILDING REQUIREMENTS							
2.01	Occupancy Classification (G)	3 (13-26) page 115	N/A	N/A	N/A	N/A	N/A
2.02	Height and Area Limitations	3 (13-46) page 323	N/A	N/A	N/A	N/A	N/A
	a) Exceptions to Area Limitations	3 (13-46-090)pg 323	N/A	N/A	N/A	N/A	N/A
	b) Exceptions to Area Limitations	3 (13-46-100)pg 323	N/A	N/A	N/A	N/A	N/A
2.03	Types of Construction	3 (13-26) page 323	N/A	N/A	N/A	N/A	N/A
2.04	Mixed Occupancy Separations	3 (13-26)pg 115	N/A	N/A	N/A	N/A	N/A
2.05	Resting of the Resistance	3 (13-26)pg 115	N/A	N/A	N/A	N/A	N/A
	Exterior Building Wall Vails	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
	Interior Building Wall	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
	Interior Partitioning Wall	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
	Columns	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
	Columns Supporting Roofs Only	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
	Beams	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
	Beams Supporting Roofs Only	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
	Floor Construction	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
2.06	Elevator Framing	Table 613-60-100	N/A	N/A	N/A	N/A	N/A
2.07	Mazutaine Floors	613-60-160)pg 332	N/A	N/A	N/A	N/A	N/A
2.08	Basement Construction	613-60-170)pg 332	N/A	N/A	N/A	N/A	N/A
2.09	Driveways and Loading Spaces	613-60-210)pg 332	N/A	N/A	N/A	N/A	N/A
2.10	Fire - Resisive Requirements	715-9-101)pg 335	N/A	N/A	N/A	N/A	N/A
	a) Fire Walls - Construction	715-9-101)pg 335	N/A	N/A	N/A	N/A	N/A
	b) Firewalls	715-9-101)pg 335	N/A	N/A	N/A	N/A	N/A
	c) Stairway Enclosures	715-9-140)pg 337	N/A	N/A	N/A	N/A	N/A
	d) Elevator Enclosures	715-9-180)pg 337	N/A	N/A	N/A	N/A	N/A
	e) Enclosures of Heating Rooms	715-9-180)pg 338	N/A	N/A	N/A	N/A	N/A
	f) Enclosures of Vails & Chutes	715-9-210)pg 339	N/A	N/A	N/A	N/A	N/A
	g) Other Enclosures	715-9-210)pg 341	N/A	N/A	N/A	N/A	N/A
	h) Stairs	715-9-220)pg 342	N/A	N/A	N/A	N/A	N/A
	i) Stairs Supporting Roofs and	715-9-220)pg 342	N/A	N/A	N/A	N/A	N/A
2.11	Construction	715-9-220)pg 342	N/A	N/A	N/A	N/A	N/A
2.12	Accepted Engineering Practice	715-9-230	N/A	N/A	N/A	N/A	N/A
	Recognized Agencies		N/A	N/A	N/A	N/A	N/A
2.13	Fire Protection Equipment	615-140-10)pg 362	N/A	N/A	N/A	N/A	N/A
	a) Sprinkler Systems	615-140-10)pg 362	N/A	N/A	N/A	N/A	N/A
	b) Special Requirements	615-140-50)pg 362	N/A	N/A	N/A	N/A	N/A
EXIT REQUIREMENTS							
3.01	Types of Exits	1013-160-040)pg 388	N/A	N/A	N/A	N/A	N/A
3.02	Minimum Number of Exits	1013-160-060)pg 388	N/A	N/A	N/A	N/A	N/A
3.03	Travel Distance to Exits	1013-160-10)pg 389	N/A	N/A	N/A	N/A	N/A
	a) Accessible Egress Routes	1013-160-160)pg 389	N/A	N/A	N/A	N/A	N/A
	b) Other Egress Routes	1013-160-160)pg 389	N/A	N/A	N/A	N/A	N/A
3.04	Capacity of Exits	1013-160-210)pg 391	N/A	N/A	N/A	N/A	N/A
3.05	Minimum Width of Exits	1013-160-250)pg 391	N/A	N/A	N/A	N/A	N/A
3.06	Signs at Exit Doors	1013-160-260)pg 392	N/A	N/A	N/A	N/A	N/A
3.07	Exit Doors	1013-160-270)pg 393	N/A	N/A	N/A	N/A	N/A
3.08	Exit Doors	1013-160-270)pg 393	N/A	N/A	N/A	N/A	N/A
3.09	Locking Doors	1013-160-320)pg 394	N/A	N/A	N/A	N/A	N/A
3.10	Handrails	1013-160-350)pg 394	N/A	N/A	N/A	N/A	N/A
3.11	Construction	715-9-140)pg 337	N/A	N/A	N/A	N/A	N/A
3.12	Enclosures	715-9-140)pg 337	N/A	N/A	N/A	N/A	N/A
3.13	Heard Room	1013-160-350)pg 394	N/A	N/A	N/A	N/A	N/A

CH41799A
OPS THORP SCHOOL
6024 W. MARWICK AVE.
CHICAGO, IL 60634

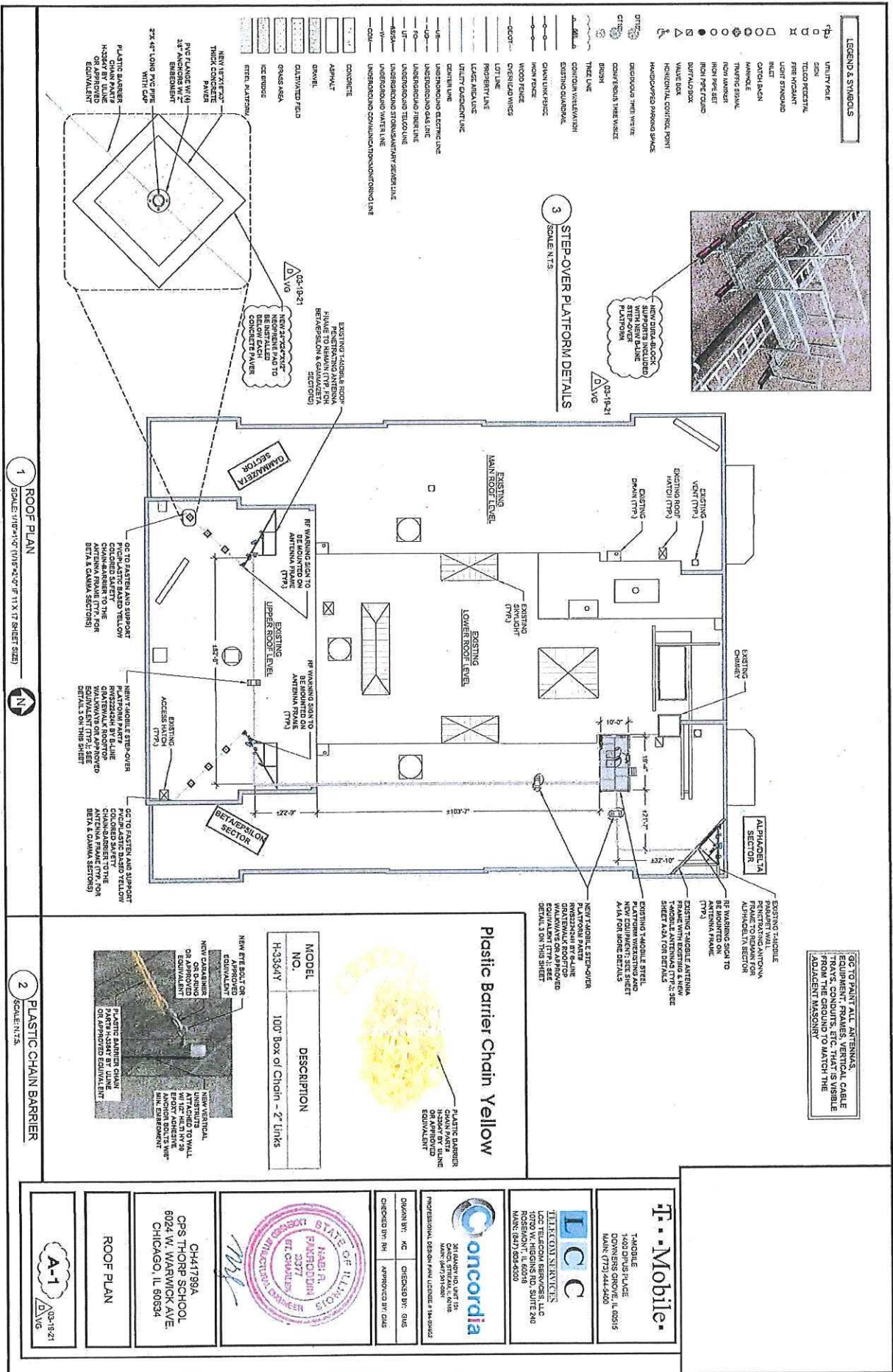


CONCORDIA ENGINEERING SERVICES, LLC
Professional Engineer License # 063622
Date of Expiration 12/31/2027
Date of Issuance 01/15/2019
Mailing Address: 1000 PHOENIX PLACE, CHICAGO, IL 60610
Phone: (773) 944-4200

Mobile
T-MOBILE
1000 PHOENIX PLACE
CHICAGO, IL 60610
Phone: (773) 944-4200

CODE MATRIX SCHEDULE

T-2



GO TO PART 11E ANTENNAS
TRAYS, CONDUITS, ETC. THAT IS VISIBLE
FROM THE GROUND TO MATCH THE
ADJACENT MASONRY

EXISTING TOWER
PARAPET WALL
FINISH TO BE MATCH
ALPHABETA SECTOR
RE WORKED ON
TYPICAL FRAME
RE WORKED SIGN TO
MATCH TYPICAL
EXISTING TOWER ANTENNA
TRAY ANTENNAS TYPICAL SEE
SHEET A-1 FOR DETAILS
EXISTING TOWER STEEL
PLATE WITH WELDING AND
NEW COLUMN: SEE SHEET
A-1 FOR DETAILS
NEW TOWER STEEL
GRATEWALK ROOF TOP
WALKWAY OR APPROVED
EQUIVALENT
DETAILS ON THIS SHEET

Plastic Barrier Chain Yellow



MODEL NO.	DESCRIPTION
H-3364Y	100' Box of Chain - 2' Links

NEW VERTICAL
NEW CHAIN
OR APPROVED
EQUIVALENT
ATTACHED TO WALL
WITH 1/2" X 1/2" X 2"
ANCHOR BOLTS W/
SNL EMBEDMENT

NEW VERTICAL
NEW CHAIN
OR APPROVED
EQUIVALENT
ATTACHED TO WALL
WITH 1/2" X 1/2" X 2"
ANCHOR BOLTS W/
SNL EMBEDMENT

T-Mobile

T-MOBILE
1400 O'NEAL PLACE
DOWNERS GROVE, IL 60515
PHONE: (773) 441-5400

DCC

TELECOM SERVICES
10700 W. HIGGINS RD. SUITE 240
MARIETTA, GA 30067
PHONE: (770) 424-8000

Concordia
301 FRANKLIN ST. UNIT 100
CHICAGO, ILL. 60601
PHONE: (773) 399-1000

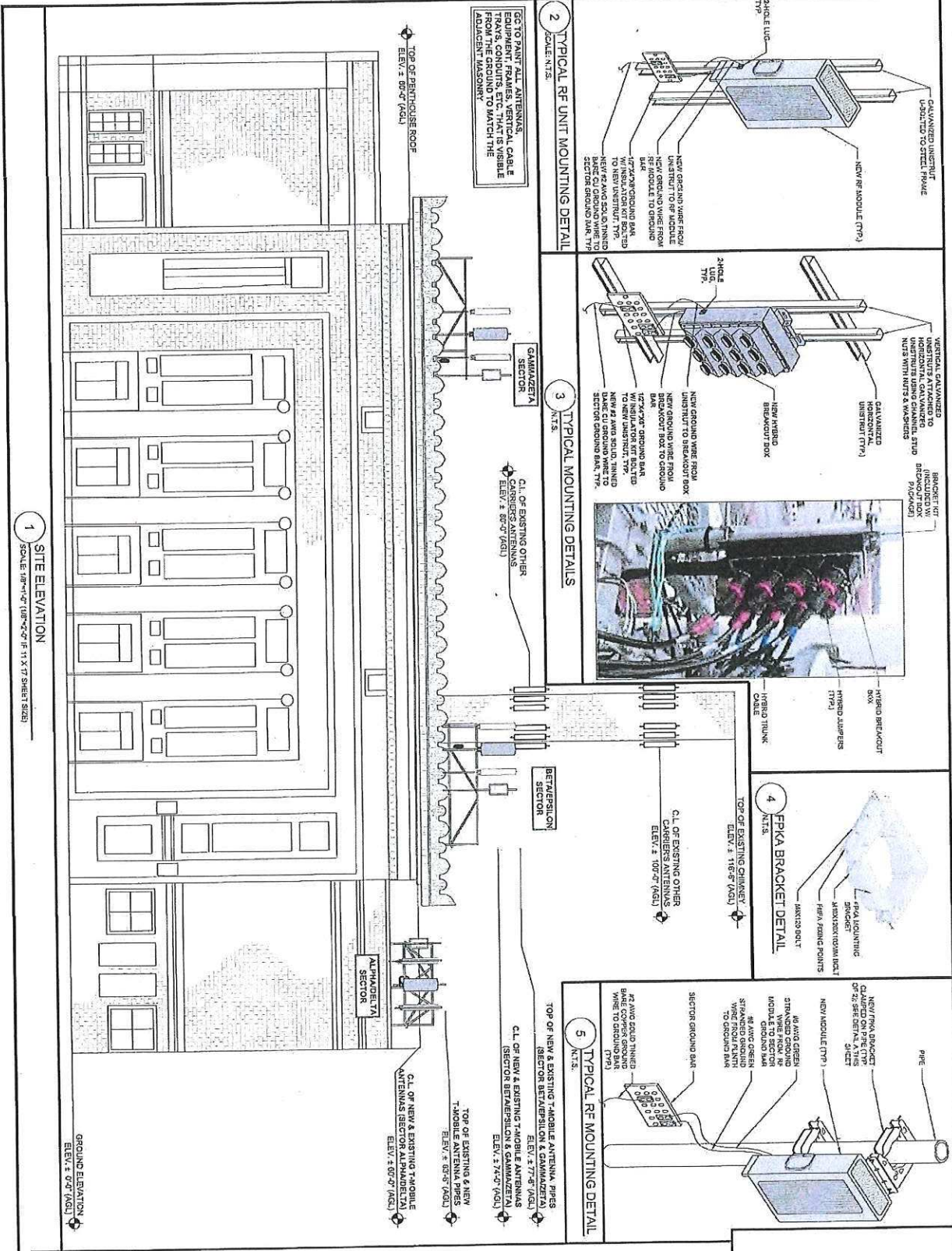
DRAWN BY: MG
CHECKED BY: GMS
ON 05/11/2021
APPROVED BY: GMS



CH41739A
CPS THORP SCHOOL
8024 W. WARWICK AVE.
CHICAGO, IL 60634

ROOF PLAN

A-1
AD-1821
DIV



1 SITE ELEVATION
SCALE: 1/8"=1'-0" (1/8"=2'-0" 11 X 17 SHEET SIZE)

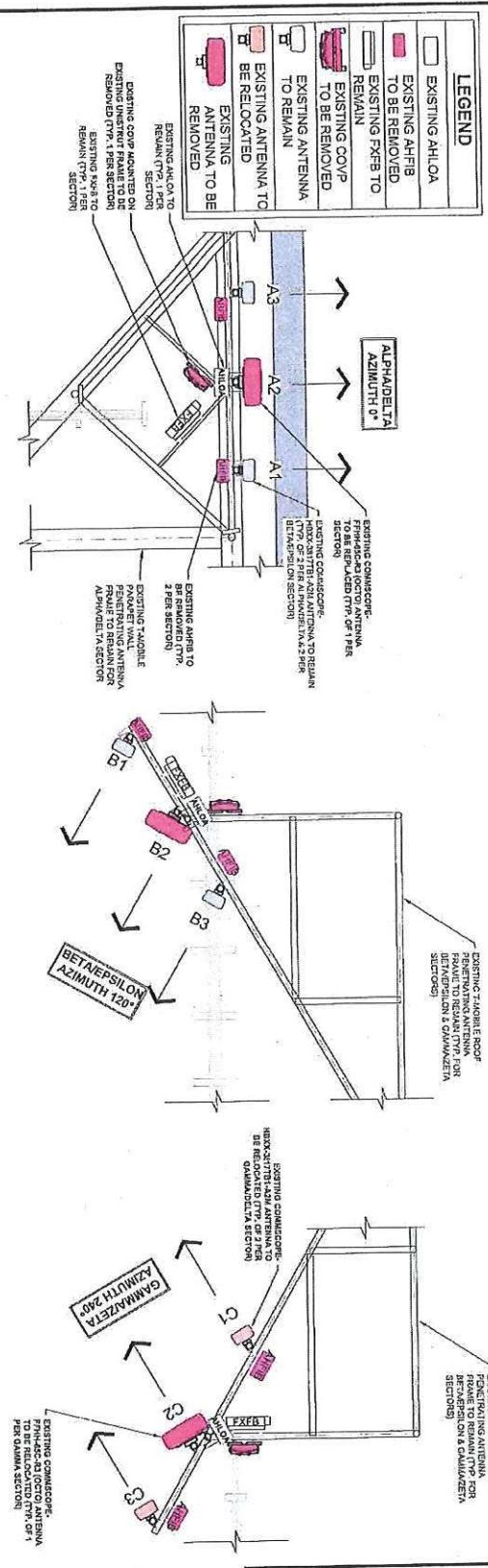
2 TYPICAL RF UNIT MOUNTING DETAIL
SCALE: N.T.S.

3 TYPICAL MOUNTING DETAILS
SCALE: N.T.S.

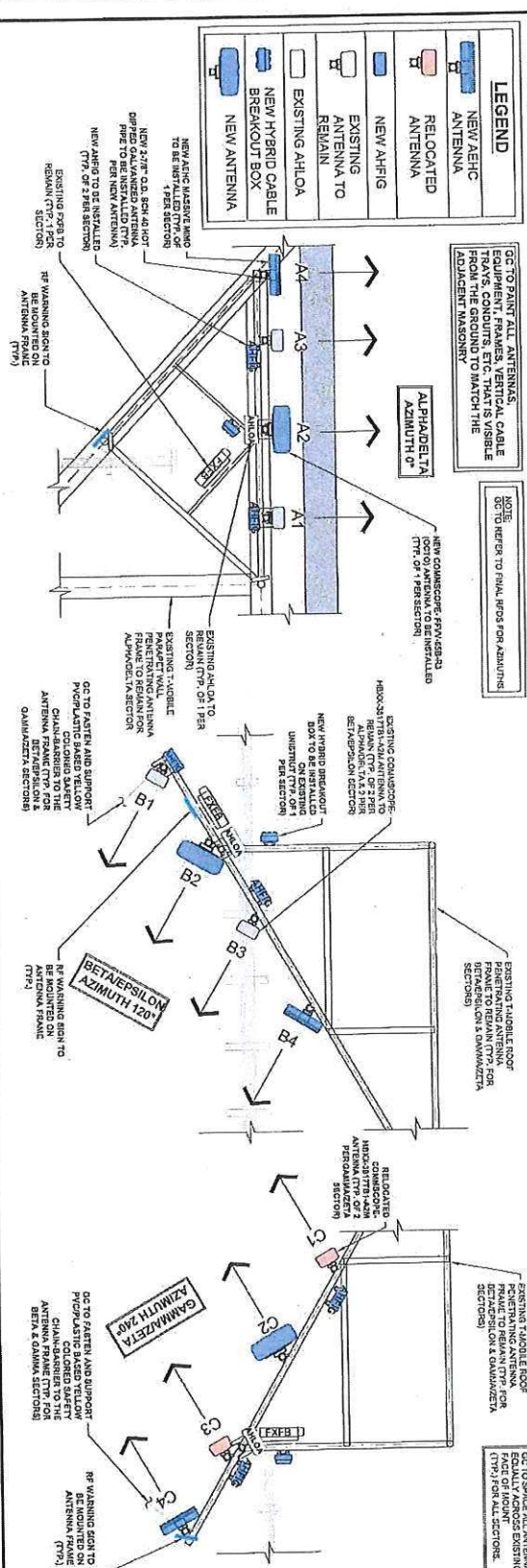
4 FPKA BRACKET DETAIL
SCALE: N.T.S.

5 TYPICAL RF MOUNTING DETAIL
SCALE: N.T.S.

<p>MOBILE PLACE DOWNSIDE GROVE, IL 60515 MAIN: (773) 444-5400</p>	<p>LCC THE LCC GROUP 1001 W. WASHINGTON ST., SUITE 100 ROSEMONT, IL 60018 MAIN: (630) 683-0000</p>	<p>concordia 201 BAYVIEW LANE, SUITE 100 MARIETTA, GA 30067 MAIN: (770) 391-3000</p>	<p>DESIGNED BY: KC CHECKED BY: OMS</p> <p>DRAWN BY: RR APPROVED BY: OMS</p>
			<p>PROFESSIONAL DESIGN FIRM LICENSE # 042-0202</p>
			<p>CH41799A OFS THORP SCHOOL 6024 W. WARWICK AVE. CHICAGO, IL 60634</p>
<p>BUILDING ELEVATION & DETAILS</p>			<p>A-2</p>



1 EXISTING T-MOBILE ANTENNA CONFIGURATION



2 PROPOSED T-MOBILE ANTENNA CONFIGURATION

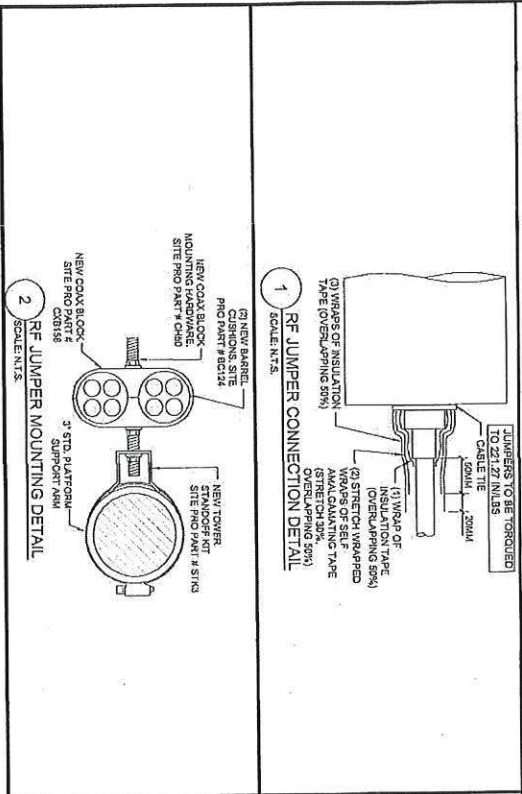


<p>T-Mobile T-Mobile 1480 O'PLS PLACE DOWNERS GROVE, IL 60515 MAIN: (773) 444-5400</p>	<p>TELECOM SERVICES LCC 1000 W. HIGHLAND RD. SUITE 500 ROSEMONT, IL 60018 MAIN: (815) 708-0000</p>	<p>CONCORDIA 201 DUNSTON LANE WILSON, IL 60191 MAIN: (815) 941-1900</p>	PROFESSIONAL DESIGN FIRM LICENSE # 3464428 DRAWN BY: NC CHECKED BY: OUS CHECKED BY: RI APPROVED BY: OUS
			<p>HAROLD R. BAMDOD PROFESSIONAL ENGINEER STATE OF ILLINOIS LICENSE # 021327 EX. 01/18/15</p>
CH41799A OPS THORP SCHOOL 6024 W. WARWICK AVE. CHICAGO, IL 60634			EXISTING & PROPOSED ANTENNA PLANS A-2A

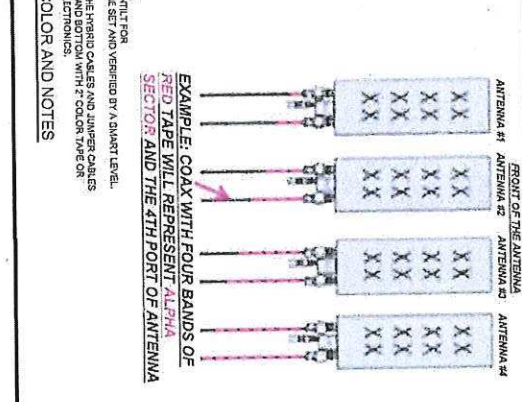
FINAL ANTENNA AND CABLE SCHEDULE

SECTOR	POS.	AZIMUTH	RAD CENTER	TECHNOLOGY	MECHANICAL TILT	ELECTRICAL TILT	ANTENNA	STATUS	RRU TYPE	RRU FEED JUMPER LENGTHS	SECTOR FIBER JUNCTION BOXES	HCS FACTORY LENGTH	BASE JUNCTION BOXES	FIBER JUMPER LENGTH
ALPHA/ DELTA	A4	0°	60°	L2500/ N2500	0°	T.B.D.	AEHG (ACTIVE ANTENNA - MASSIVE MIMO)	NEW	-	-	-	-	-	15'
	A3/B3	0°	60°	L1900/ L2100	0°	3°/3°	COMMSCOPE HBXX-3817TB1-A2M1 (-27°) (MULTI-BEAM)	REUSE EXISTING	(1) NEW AHRIG	5'15'-0"	(1) NEW BREAKOUT BOX TO BE INSTALLED	(1) NEW 100' HCS 2.0 HYBRID TRUNK CABLE TO BE INSTALLED	(1) EXISTING TOWER OVP/ JUNCTION BOX	15'
	A2	0°	60°	L700/ L600/ N600/ L1900/ G1900/ U1900	0°	3°/3°/2°/2°	COMMSCOPE FFWV-65B-R3 (OCTO)	NEW	(1) EXISTING AHC/A & (1) EXISTING FWRB	5'15'-0"	-	-	-	(2) 15'
	A1/D1	0°	60°	L1900/ L2100	0°	3°/3°	COMMSCOPE HBXX-3817TB1-A2M1 (-27°) (MULTI-BEAM) AEHG (ACTIVE ANTENNA - MASSIVE MIMO)	REUSE EXISTING	(1) NEW AHRIG	5'15'-0"	-	-	-	15'
BETA/ EPSILON	B4	120°	74°	L2500/ N2500	0°	T.B.D.	AEHG (ACTIVE ANTENNA - MASSIVE MIMO)	NEW	-	-	-	-	-	15'
	B3/E3	120°	74°	L1900/ L2100	0°	3°/3°	COMMSCOPE HBXX-3817TB1-A2M1 (-27°) (MULTI-BEAM)	REUSE EXISTING	(1) NEW AHRIG	5'15'-0"	(1) NEW BREAKOUT BOX TO BE INSTALLED	(1) NEW 175' HCS 2.0 HYBRID TRUNK CABLE TO BE INSTALLED	(1) NEW TOWER OVP/ JUNCTION BOX TO BE INSTALLED	15'
	B2	120°	74°	L700/ L600/ N600/ L1900/ G1900/ U1900	2°	3°/2°/2°/2°	COMMSCOPE FFWV-65B-R3 (OCTO)	NEW	(1) EXISTING AHC/A & (1) EXISTING FWRB	5'15'-0"	-	-	-	(2) 15'
GAMMA/ ZETA	B1/E1	120°	74°	L1900/ L2100	0°	3°/3°	COMMSCOPE HBXX-3817TB1-A2M1 (-27°) (MULTI-BEAM) AEHG (ACTIVE ANTENNA - MASSIVE MIMO)	REUSE EXISTING	(1) NEW AHRIG	5'15'-0"	-	-	-	15'
	C4	240°	74°	L2500/ N2500	0°	T.B.D.	AEHG (ACTIVE ANTENNA - MASSIVE MIMO)	NEW	-	-	-	-	-	15'
	C3/23	240°	74°	L1900/ L2100	0°	3°/1°	COMMSCOPE HBXX-3817TB1-A2M1 (-27°) (MULTI-BEAM)	RELOCATED	(1) NEW AHRIG	5'15'-0"	(1) NEW BREAKOUT BOX TO BE INSTALLED	(1) NEW 250' HCS 2.0 HYBRID TRUNK CABLE TO BE INSTALLED	(1) NEW TOWER OVP/ JUNCTION BOX TO BE INSTALLED	15'
C2	240°	74°	L700/ L600/ N600/ L1900/ G1900/ U1900	2°	3°/3°/2°/2°	COMMSCOPE FFWV-65B-R3 (OCTO)	NEW	(1) RELOCATED AHC/A & (1) EXISTING FWRB	5'15'-0"	-	-	-	(2) 15'	
C1/21	240°	74°	L1900/ L2100	0°	3°/1°	COMMSCOPE HBXX-3817TB1-A2M1 (-27°) (MULTI-BEAM)	RELOCATED	(1) NEW AHRIG	5'15'-0"	-	-	-	15'	

(1) SHARED WITH ALL SECTORS
IMPORTANT NOTE: PLEASE REFER TO LATEST SPDS SHEET FOR NSN CONFIGURATION. GO TO CAP ALL UNUSED PORTS.



SECTOR	COAXIAL CODING
SECTOR A	RED
SECTOR B	GREEN
SECTOR C	BLUE
SECTOR D	YELLOW
SECTOR E	WHITE
SECTOR F	PURPLE
LMU	BROWN/BLACK/RED/WHITE/BLACK
FIBER ID	GRAY
UNUSE COAX	PINK
WORKOVAVE	ORANGE
DVE 1-1'S + GPS DOWNLINK CABLE	ORANGE ID LABEL MAKER



PROFESSIONAL DESIGN FIRM LICENSE # 0000000000

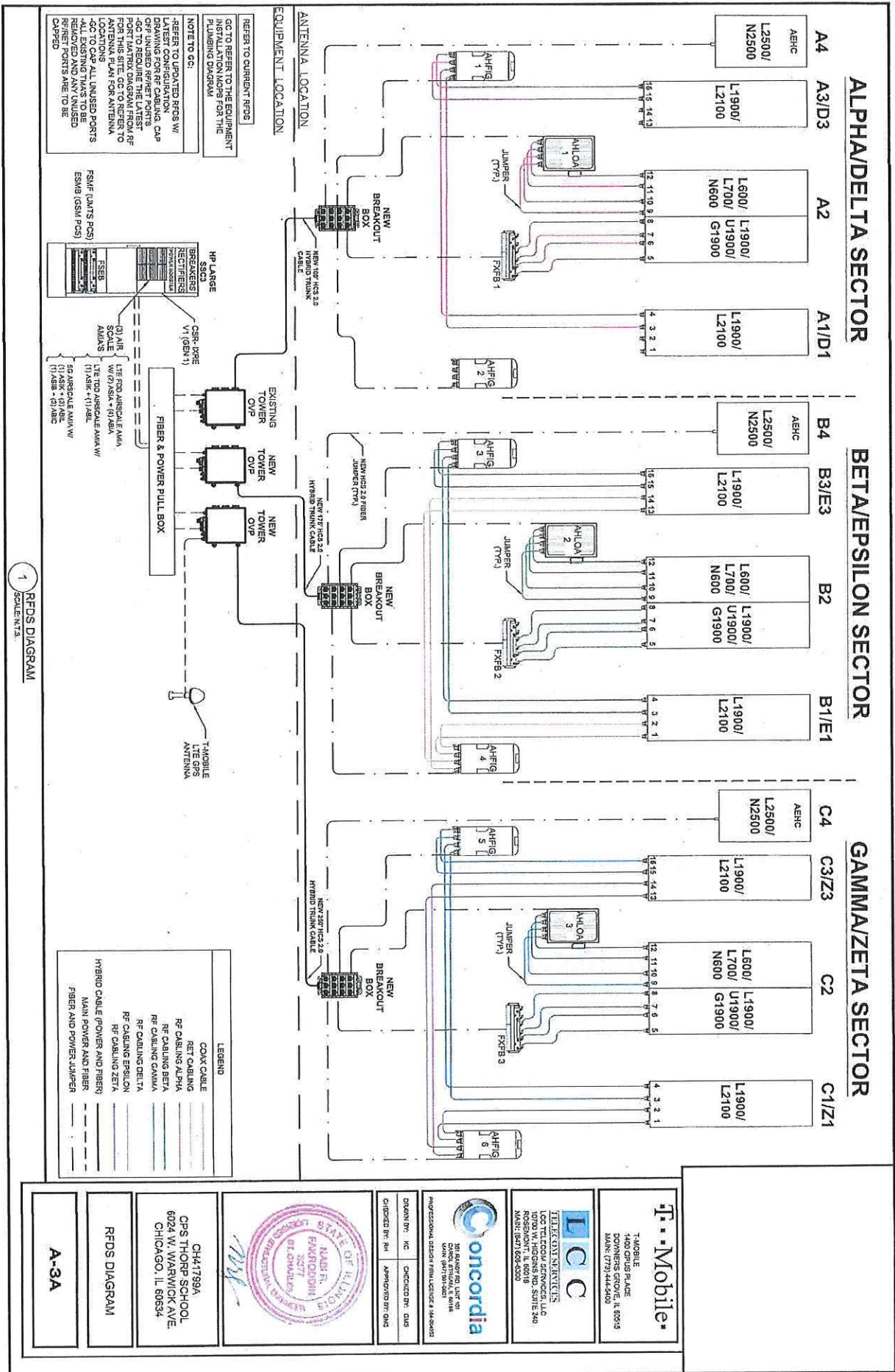
concordia
311 Madison St., Suite 200
Chicago, IL 60601
Phone: (312) 329-1000
Fax: (312) 329-1001

DESIGNED BY: [Signature] CHECKED BY: [Signature]
DATE: [Date] DATE: [Date]

STATE OF ILLINOIS
NAB: R
FORGODDIN
3027
REC CHARGED
JAN 15 2018

0441789A
CPS THORP SCHOOL
6024 W. WARWICK AVE.
CHICAGO, IL 60634

ANTENNA & CABLE SCHEDULE
A-3



T-Mobile

1-MOBILE
DOWNERS GROVE PLAZA
DOWNERS GROVE, IL 60555
MAIN: (773) 444-2400

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DISTRIBUTION NETWORKS
LOC TELECOM SERVICES, LLC
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MARIETTA, GA 30067
MAIN: (877) 668-5000

Concordia
WE BELIEVE IN LIFE™
10000 N. STATE ST. SUITE 100
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MAIN: (773) 554-2000

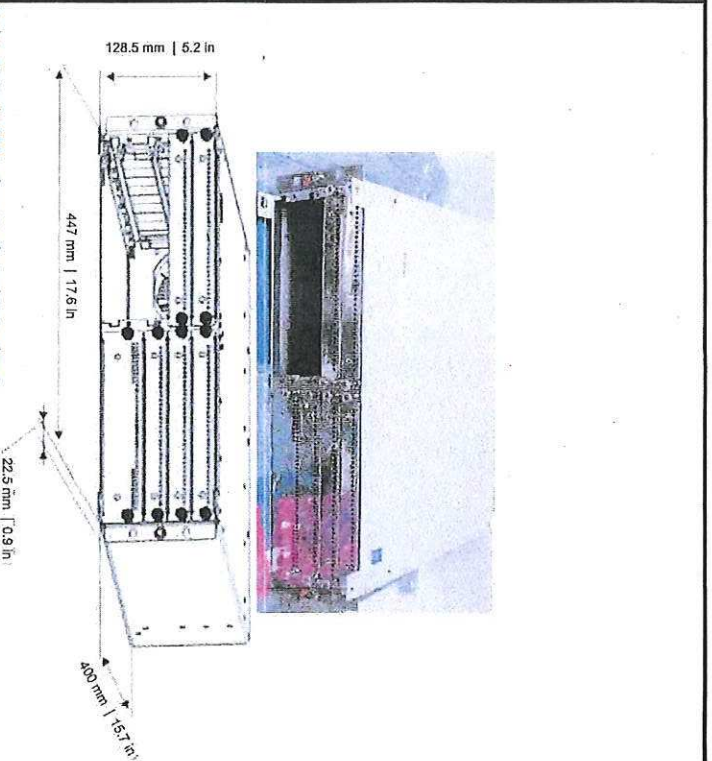
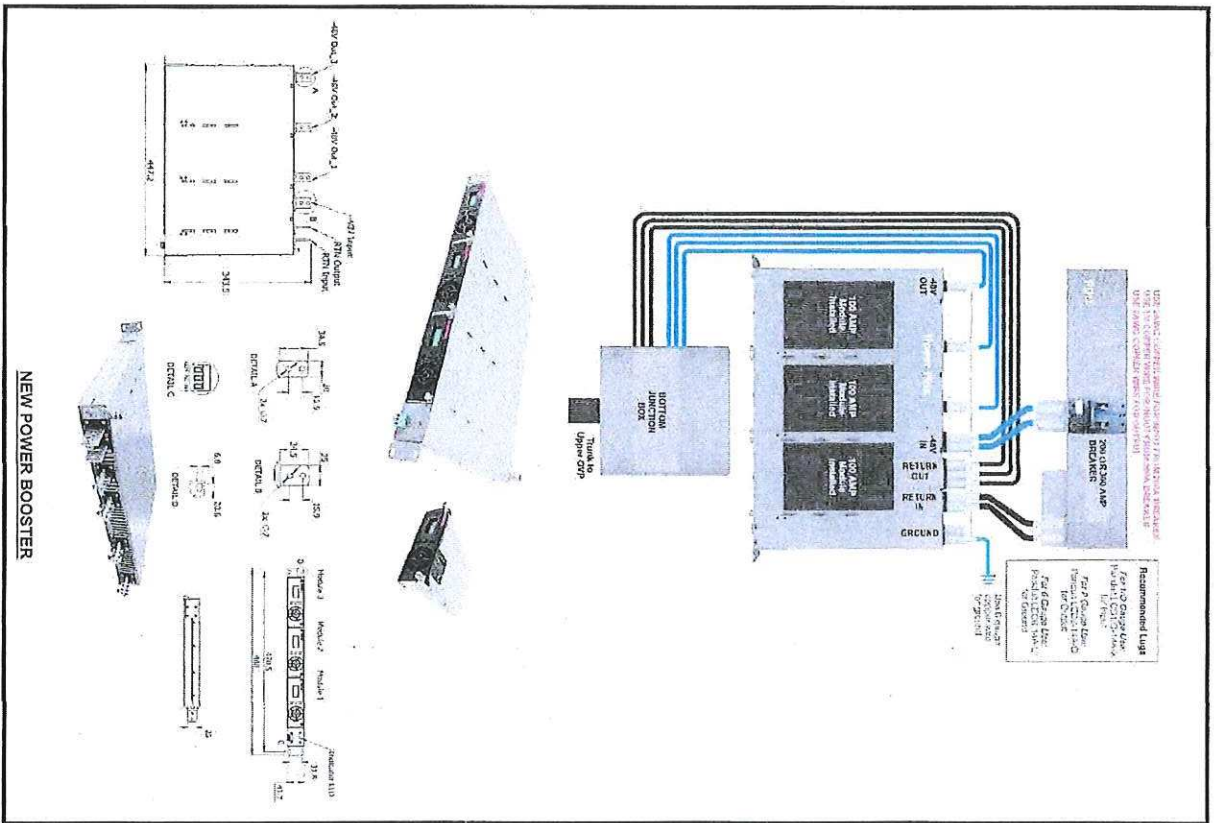
APPROVED BY: [Signature]
DATE: [Date]

STATE OF ILLINOIS
NOTARY PUBLIC
MARIETTA, ILLINOIS
EXPIRES: 12/31/2017

CH417189A
CPS THORP SCHOOL
6024 W. WARRICK AVE.
CHICAGO, IL 60634

RFDS DIAGRAM

A-3A



Nokia AirScale SM Indoor Technical Datasheet

Category	RF-Connectivity products
Product family	5G RAN
Medium configuration	1. General architecture and control. 1E central processor and distributed units.
Medium configuration	2. General architecture and control. 1E central processor and distributed units.
Medium configuration	3. General architecture and control. 1E central processor and distributed units.
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Medium configuration	47. General architecture and control. 1E central processor and distributed units.
Medium configuration	48. General architecture and control. 1E central processor and distributed units.
Medium configuration	49. General architecture and control. 1E central processor and distributed units.
Medium configuration	50. General architecture and control. 1E central processor and distributed units.

Minimum configuration (1x BTS)

Minimum configuration (2x BTS, 1 BTS per half subrack)

Minimum AirScale SM Indoor configuration fit (1.6x, 1 BTS per half subrack)

Mobile

TANAGER
4400 CHURCH PLACE
DOWNSIDE CHURCH, IL 60516
MAIL: (773) 444-5400

LCC

TELECOM SERVICES
10700 W. JACOBS RD. SUITE 400
ROSEMONT, IL 60018
MAIL: (630) 958-6000

Concordia
201 N. RIVER ROAD, UNIT 500
MENARD, ILLINOIS 62454
MAIL: (618) 341-3000

PROFESSIONAL DESIGN FIRM LICENSE # 184-0122

ISSUED BY: N/A CHECKED BY: QMS
DRAWN BY: N/A APPROVED BY: QMS

CHA41799A
OPS THORP SCHOOL
6024 W. WARWICK AVE.
CHICAGO, IL 60634

NEW EQUIPMENT SPECIFICATIONS

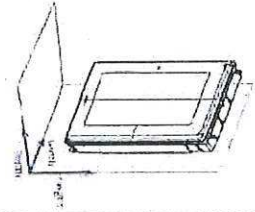
A-4

NEW EQUIPMENT SPECIFICATIONS

A-4

PRODUCT DESCRIPTION

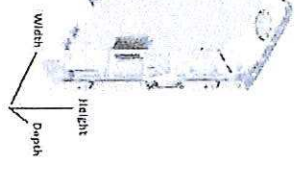
Band	B21 - 2495-2590 MHz
Supported Modulation Schemes	LDL, TBSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1UL, EPSK, QPSK, 16 QAM, 64 QAM
No. of TX/RX	5-TX&4-RX
MIMO Streams	16
Instantaneous RBW	194 MHz
Occupied Bandwidth (RBW)	190 MHz
Total Avg EIRP	74.8 dBm
Supported bandwidths	LTE: 3.20 MHz; 5G: 40/60/80/100MHz
Output Power	5 W / TRX (330 W total, 2 W/MHz up to 160 MHz)
Power Consumption	41330 W typical (75% DL duty cycle, 30% RF load) 41827 W max (75% DL duty cycle, 100% RF load)
Optical Ports	4 x SFP22 (OC15), 25 Gbps, SFPRI
Connector Type	APFC DC Pole connector
Dimensions (H x W x D)	38.2 in x 21.5 in x 5.9 in
Weights lbs	109.0 lb
HW/SW Availability	SRAN20C/S620B
5G NR Support	Yes
Material Description	Nokia AirScale MAA 64T6AR-192AE B41 320W AEHC



NOKIA AIRSCALE MAA 64T6AR 192AE B41 320W AEHC ANTENNA AEHC-275124

PRODUCT DESCRIPTION

Band	B25 + B66
Instantaneous BW (DL/UL)	65MHz on Band 25, 80MHz on Band 66
Supported Modulation Schemes	up to 64QAM (UL) and up to 256QAM (DL)
Supported bandwidths	LTE 1.4, 3.5, 10, 15, 20 MHz 4T4R
No. of ports	80 W for Band 25 and 40 W for Band 66 (Total Power is 480W) Terminal block
Output Power	80 W for Band 25 and 40 W for Band 66 (Total Power is 480W) Terminal block
DC connector	2 x 9.8cbps CRRI, RZCT IP seal
Optical Fiber connector	4, 3-10+
RF Connector	AISG on all ports, DC on ANTT1 and ANTT3
AISG	70.5 without cover
Dimensions (H x W x D) in	27.3 x 12.1 x 5.2
Weight lbs	Available now - SRAN15A
HW/SW Availability	YES
5G NR Support	YES (in band, guardband, standalone)
NR-IoT Support	YES (in band, guardband, standalone)



AHFIG

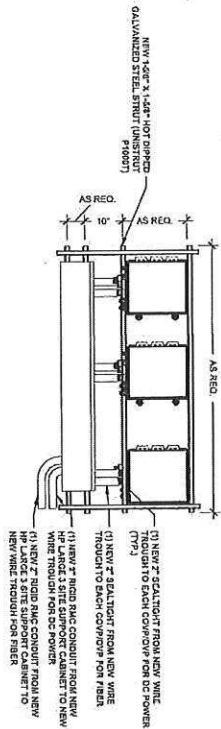


FFVW-65B-R3-V1
8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz, 65° HPBW, 3x RET

General Specifications

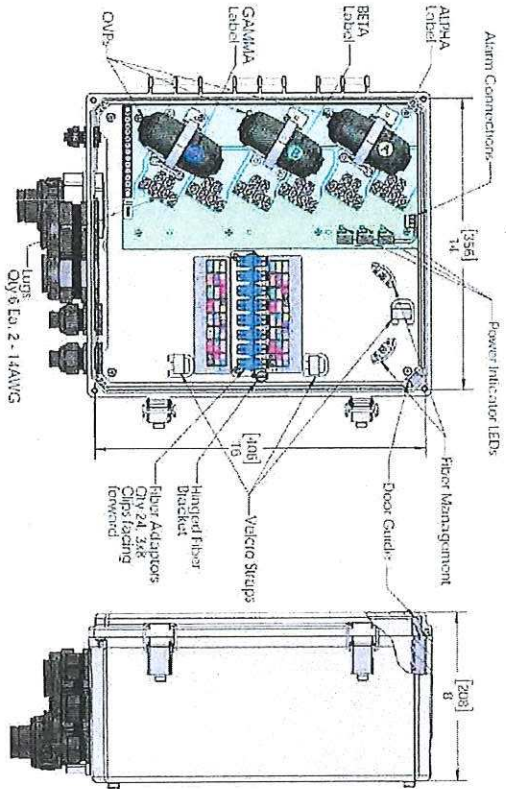
Operating Frequency Band	1695 - 2690 MHz 617 - 894 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage
Total Input Power, maximum	900 W @ 50 °C
Dimensions	
Length	1828.0 mm 72.0 in
Width	640.0 mm 25.2 in
Depth	235.0 mm 9.3 in
Net Weight, without mounting kit	45.5 kg 100.3 lb

NEW ANTENNA (COMMSCOPE-FFVW-65B-R3-V1)

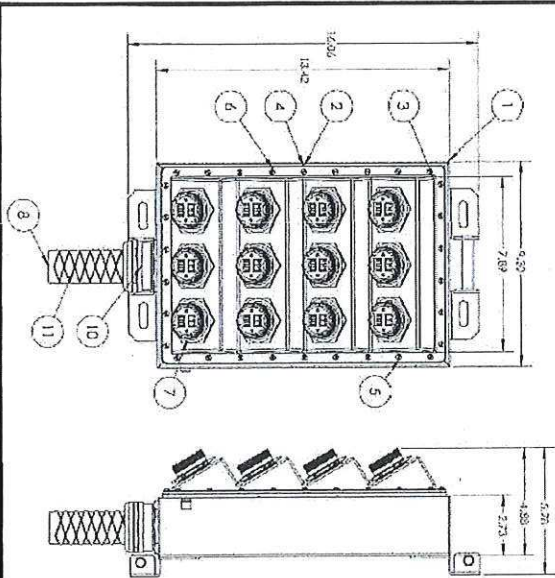
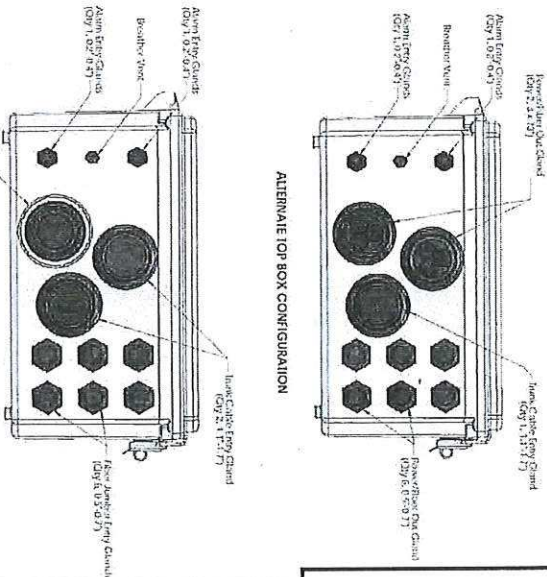


COVER/UNISTRUTS FRAME ELEVATION DETAIL

<p>T-MOBILE 1400 ORISKANY PLACE DOWNERS GROVE, IL 60515 NAXN: (773) 444-8300</p>	<p>TELKOM SERVICES LCC TELECOM SERVICES, LLC 10700 W. HENSING RD, SUITE 200 ROSEMONT, IL 60018 NAXN: (630) 252-5253</p>	<p>341 RANGER BL, UNIT 017 DOWNERS GROVE, ILLINOIS 60515-2970 PROFESSIONAL DESIGN/PRINT LICENSE # 188-018282</p>	<p>DESIGNED BY: N/A APPROVED BY: SWS</p> <p>DRAWN BY: N/A CHECKED BY: SWS</p> <p>DATE: 08/27/2024</p>	<p>STATE OF ILLINOIS JANUARY 1818 JANUARY 1818 JANUARY 1818 JANUARY 1818</p>	<p>CH41789A CPS THORP SCHOOL 6024 W. WARWICK AVE. CHICAGO, IL 60634</p>	<p>NEW EQUIPMENT SPECIFICATIONS</p> <p>A-4A</p>
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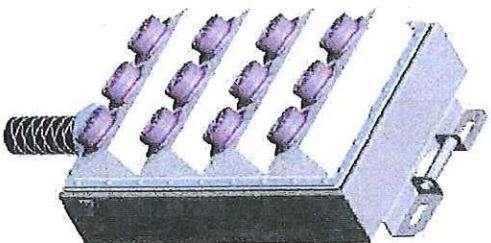
RTMDC-5634-PF-48 TOWER OVP/FIBER JUNCTION BOX



NOTE:
1. TOTAL VOLUME IS MAX 480.6 CUBIC INCH.

ITEM NO.	PART NUMBER	DESCRIPTION	AC DISTS 24P-DC SHROU/CIT
1	AC DISTS 24P-DC	IP SHEETMETAL BOX	1
2	AC-CNTD-FB-HICAP	CASNET EPDM	1
3	AC-FS-FRONT-ASTEP-3CON	HYBRID MODULE INCLINE MOUNT THERMO-SHELL	1
4	AC-STBOS-HICAP	METAL O-RING	30
5	3EG5147 LW 0125	WASHER	30
6	3CGMR3050J9	TAMPERED PROOF #6-32 SCREW	30
7	CF-9729650-101 100 W/LC	JAM NUT RECEPTACLE	12
8	145U9325TYR02	HYBRID CABLE HICAP	1
9	4223342	LOCKNUT FOR CABLE GLAND	1
10	4223342	CABLE GLAND	1
11	HQD12 CRP	CABLE HOIST GRIP	1

HYBRID CABLE HIGH-CAP BREAKOUT BOX

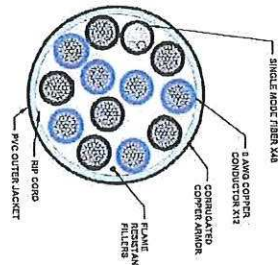
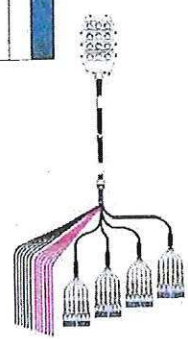


<p>T-MOBILE 1400 ORVIS PLACE DOWNERS GROVE, IL 60515 MAIL: (708) 444-5680</p>	<p>TELECOM SERVICES LCC TELECOM SERVICES, LLC 6705 W. HOGANS RD, SUITE 240 MARIETTA, GA 30067 MAIL: (877) 658-6000</p>	<p>CONCORDIA STATE OF ILLINOIS REGISTERED PROFESSIONAL ENGINEER No. 019-070-0000</p>	DRAWN BY: KC CHECKED BY: RM APPROVED BY: GMS
			301 RAYMOND RD, SUITE 101 CANON, ILLINOIS 62424 PROFESSIONAL ENGINEER REGISTRATION # 144862
<p>OH41789A CPS THORP SCHOOL 6024 W. WARRICK AVE. CHICAGO, IL 60634</p>			NEW EQUIPMENT SPECIFICATIONS
<p>A-4B</p>			

HybridConnect

NWS-HCS2-HC4-XXX
HCS 2.0 Trunk HiCap 12 RRU 12XA4WG

General Specifications		
Nominal OD	1210µm (48.31mm)	
Cable Weight	2930 lb/mft (3650 kg/km)	
Jacket Color	Black	
Minimum Bend Radius - Installed	16.25"	
DC Cable Specifications		
DC Rate	5	
DC Conductor Size	4 AWG	
DC Resistance Maximum	0.234 Ohm/1000 ft.	
Operational Length - End 1	31 in (775 mm)	
Operational Length - End 2	Maximal end-to-end	
Product Coding		
Part Number	Description	TC-Module SKU
NWS-HCS2-HC4-250	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 250 FT	TR0
NWS-HCS2-HC4-375	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 375 FT	TR0
NWS-HCS2-HC4-500	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 500 FT	TR0
NWS-HCS2-HC4-625	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 625 FT	TR0
NWS-HCS2-HC4-750	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 750 FT	TR0
NWS-HCS2-HC4-875	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 875 FT	TR0
NWS-HCS2-HC4-1000	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 1000 FT	TR0
NWS-HCS2-HC4-1125	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 1125 FT	TR0
NWS-HCS2-HC4-1250	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 1250 FT	TR0
NWS-HCS2-HC4-1375	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 1375 FT	TR0
NWS-HCS2-HC4-1500	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 1500 FT	TR0
NWS-HCS2-HC4-1625	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 1625 FT	TR0
NWS-HCS2-HC4-1750	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 1750 FT	TR0
NWS-HCS2-HC4-1875	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 1875 FT	TR0
NWS-HCS2-HC4-2000	HC 2.0 Trunk HiCap 12 RRU 12XA4WG 2000 FT	TR0



1 NEW HCS 2.0 TRUNK
NTS

COMMSCOPE

HFT410-ASNOK2-150
HELIX® FiberFeed®
Hybrid Cable Assembly, HCLC

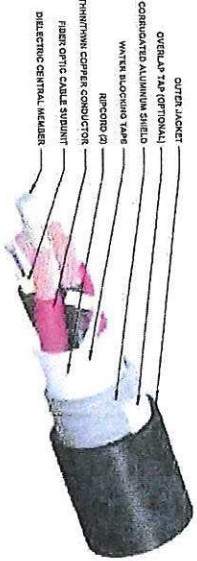
End 1: 4 fibers terminated DLC for Nokia RRU with flush cut power cord/black conductors). End 2: 4 fibers terminated LC and 4x10 AWG conductors terminated at hybrid trunk connector. 15 ft



Property	Value
Cord Length	4.57m (15.000 ft)
Diameter Over Jacket	18.31mm (0.721 in)
Cable Conductor Gauge	10 AWG
Minimum Bend Radius	227mm (8.901 in)

COMMSCOPE

HTC-4SM-410-APVA
HELIX® FiberFeed®
Hybrid Cable, UL Type TC-OF-ER



Description	Value
Buffer Tube/Support Diameter	3.556 mm (0.14 in)
Diameter Over Jacket	18.320 mm (0.721 in)
Cable Conductor Gauge	10 AWG
Minimum Bend Radius - Multiple bends loaded	365.28 mm (14.4 in)
Minimum Bend Radius - Multiple bends loaded	220.09 mm (8.7 in)
Minimum Bend Radius - Multiple bends loaded	127 mm (5 in)
Cable Weight	456.120g/km (0.055 lb/ft)

2 NEW HYBRID JUMPER
NTS



7400 BILB
DOWNSIDE PLACE
ROSEMONT, IL 60558
MAIN: (773) 444-5400

TELECOM SERVICES
COMMUNICATIONS LLC
10701 W. HODGINS RD. SUITE 940
ROSEMONT, IL 60018
MAIN: (630) 604-2500

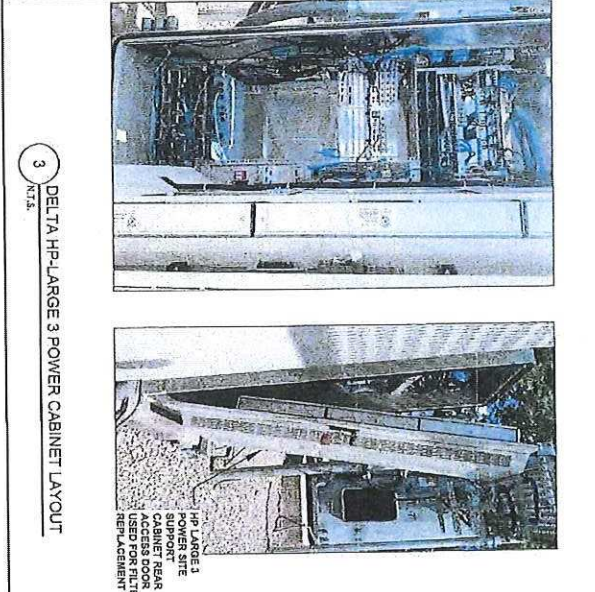
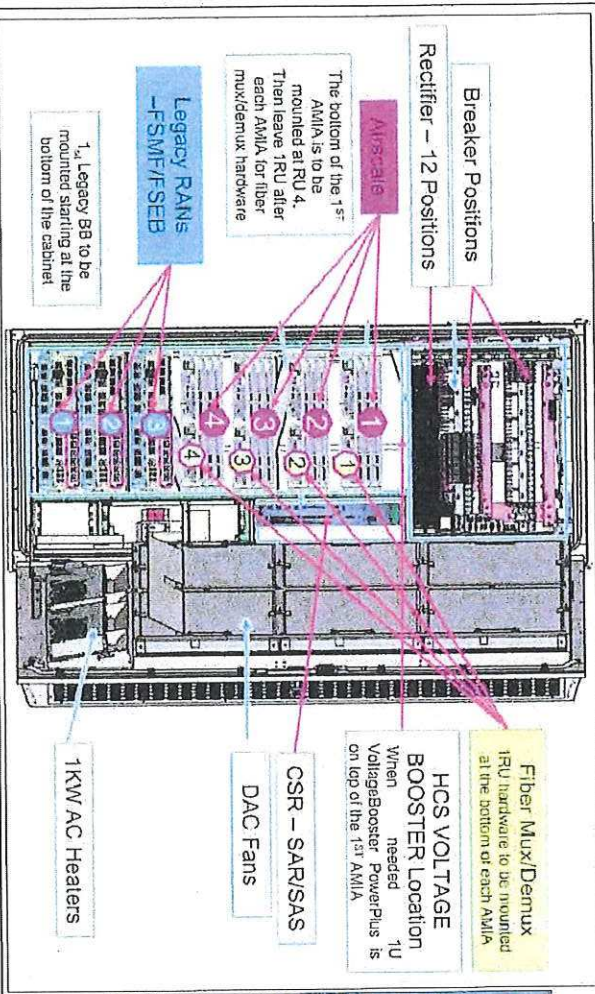
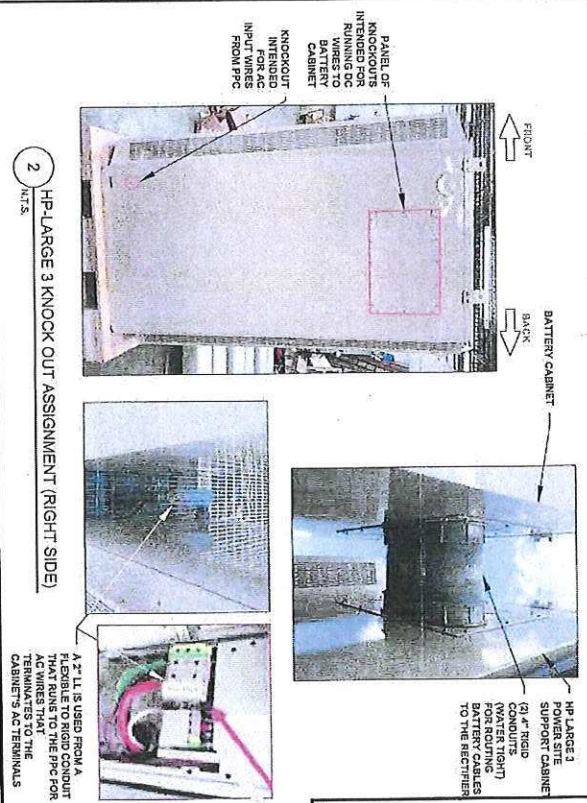
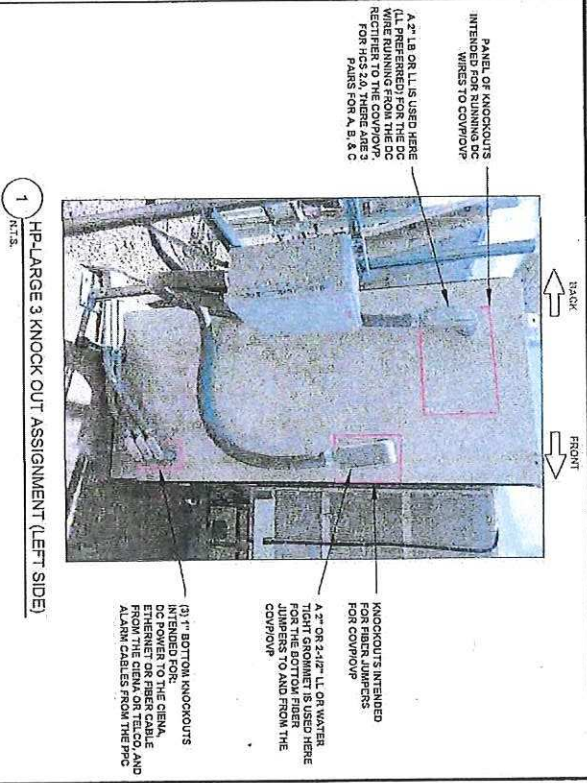


CONCORDIA GROUP OF COMPANIES
301 S. BARTON RD. UNIT 800
MARIETTA, GA 30067
www.concordia.com



CH41799A
OPS THORP SCHOOL
6024 W. WARRICK AVE.
CHICAGO, IL 60634

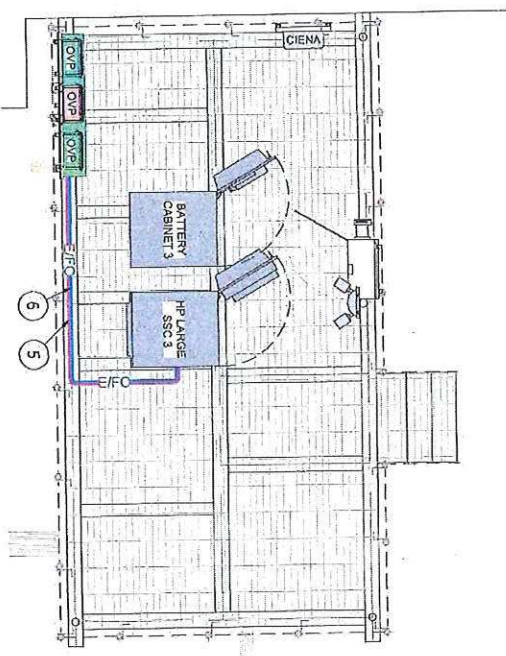
EQUIPMENT
SPECIFICATIONS
A-4C



<p>MOBILE 1400 OGDEN PLACE MARIETTA, GA 30067 MAIN: (770) 444-5100</p>	<p>THE TELECOM SERVICES, LLC 1000 W. WASHINGTON ST. SUITE 200 ROSEMOUNT, IL 60018 MAIN: (847) 908-8200</p>	<p>PROFESSIONAL DESIGN PROFESSIONAL ENGINEER & SURVEYOR 380 W. BANGOR, SUITE 201 MARIETTA, GA 30067 MAIN: (770) 591-0000</p>	<p>DESIGNED BY: INC. CHECKED BY: DATE</p> <p>APPROVED BY: DATE</p>	<p>STATE OF ILLINOIS PROFESSIONAL ENGINEER NO. 0017 IN CHARGE ELECTRICAL ENGINEER</p>	<p>OH41799A CPS THORP SCHOOL 8024 W. WARRICK AVE. CHICAGO, IL 60634</p>	<p>NEW EQUIPMENT SPECIFICATIONS</p>	<p>A-4D</p>
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CONDUIT LEGEND

- FO - FIBER OPTIC CONDUIT
- E - ELECTRIC CONDUIT



EQUIPMENT LEGEND

- NEW EQUIPMENT
- EXISTING EQUIPMENT TO BE REMOVED
- EXISTING EQUIPMENT TO BE RELOCATED
- EXISTING EQUIPMENT TO REMAIN

PROPOSED EQUIPMENT LAYOUT
 SCALE: 1/2"=1'-0" (1/2"=2'-0" @ 1:4.17 SHEET SIZE)

UTILITY LEGEND

NO.	FROM	TO	WIRE QTY. & WIRE TYPE	GROUND	CONDUIT SIZE	FUNCTION	APPROXIMATE CONDUIT LENGTH
1	PIC	HP LANGE 3 SSC	(2) 30' 8" (2) 30' 8" (2) 30' 8"	(1) #4 & (1) #12	2" THREADED L TYPE RIGID CONDUIT ON FRONT 2" KNEECUT OF SSC	ELECTRIC CONDUIT (POWER FOR SS OUTLET)	N/A
2	PIC	HP LANGE 3 SSC FROM FIBER	1 PAIR OF RIBBON FIBER	N/A	1" RIGID RMC	ELECTRIC CONDUIT	N/A
3	FIBER RACK4	HP LANGE 3 SSC	(1) CAT-4 CABLE	N/A	1" RIGID RMC	FIBER CONDUIT	N/A
4	FIBER RACK4	HP LANGE 3 SSC	(2) #12	(1) #4	1" RIGID RMC	ELECTRIC CONDUIT	N/A
5	HP LANGE 3 SSC	FIBER & POWER PULL BOX	3 PAIRS OF #12 GPR CABLE, 4#12 ALUMINUM WIRE & FIBER	N/A	2" RIGID RMC	ELECTRIC CONDUIT	22'
6	HP LANGE 3 SSC	DATTERY 3 CABINET	(2) #12	N/A	2" RIGID RMC	ELECTRIC CONDUIT	22'
7	HP LANGE 3 SSC	DATTERY 3 CABINET	(2) #12	N/A	4" RIGID RMC	ELECTRIC CONDUIT	N/A
8	HP LANGE 3 SSC	BATTERY 3 CABINET	4 PAIRS OF #12 CABLE, (2) #12	(1) #10	4" RIGID RMC	ELECTRIC CONDUIT	N/A

NOTE: THE CONDUIT LENGTH GIVEN IS BASED ON THE DRAWING. A 10% THE EXACT LENGTH TO BE VERIFIED IN FIELD. OCTO VERIFY LENGTH AFTER CONSTRUCTION IN SERVICE UTILITY DRAWINGS.

IMPORTANT NOTE:
 ALL UNSTRUCTURED FASTENERS, HANGERS, ETC. ARE TO BE EITHER HOT-DIP GALVANIZED OR SHALL BE STAINLESS STEEL. ALL UNSTRUCTURED FASTENERS SHALL NOT BE SINKING OR PRE-GALVANIZED.

BIDDING & CONSTRUCTION NOTE:
 WIRE SIZES SHOWN ARE ESTIMATED MINIMUMS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO CHECK THE LOCAL ELECTRICAL CODES IN ADDITION TO NEC 2011 AND FOLLOW WHICH EVER IS MORE CONSERVATIVE. CONTRACTOR SHALL ESTIMATE WIRE CONDUIT SIZE & UTILIZE THE "NEED" CONTRACTOR TO CONFIRM WITH LOCAL ELECTRICAL INSPECTOR PRIOR TO CONSTRUCTION WITH NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION START.

Mobile

7400 N. RILEY PLACE
 DOWNERS GROVE, IL 60515
 MAIN: (773) 444-6300

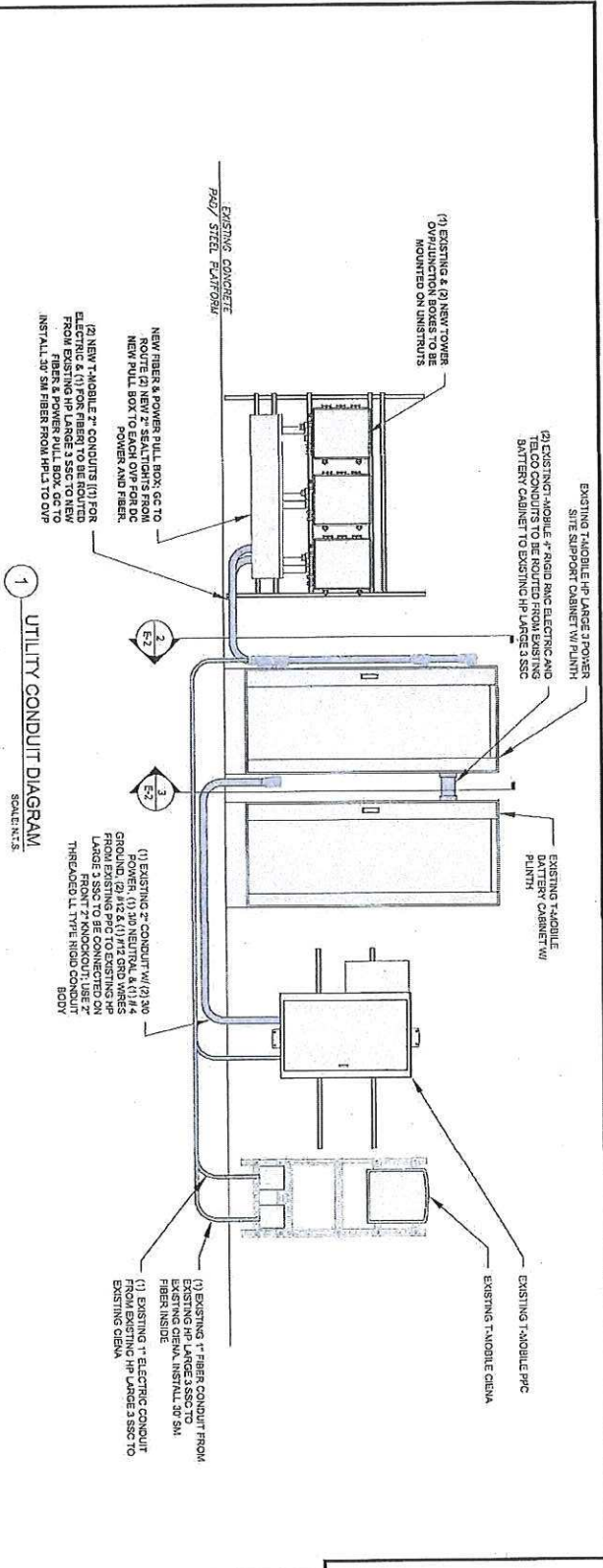
Concordia

CONCORDIA UTILITIES SERVICES
 1000 W. LINCOLN RD. SUITE 540
 ROSEMONT, IL 60018
 MAIN: (847) 939-8300

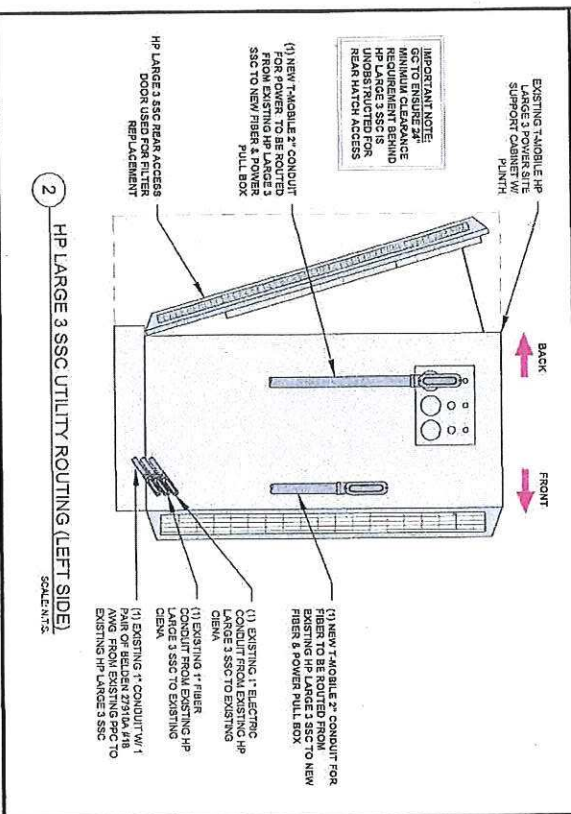
CH4-1798A
 OPS THORP SCHOOL
 6024 W. WARWICK AVE
 CHICAGO, IL 60634

PROPOSED UTILITY PLAN

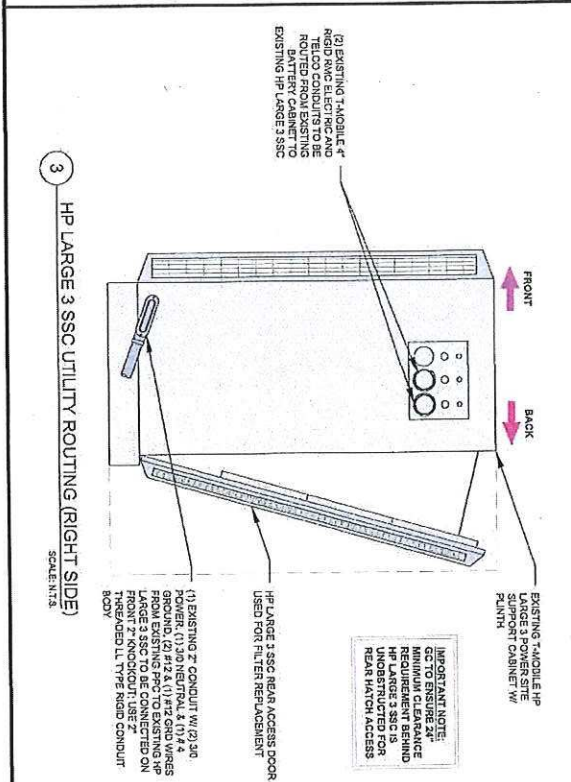
E-1



1 UTILITY CONDUIT DIAGRAM
SCALE: N.T.S.

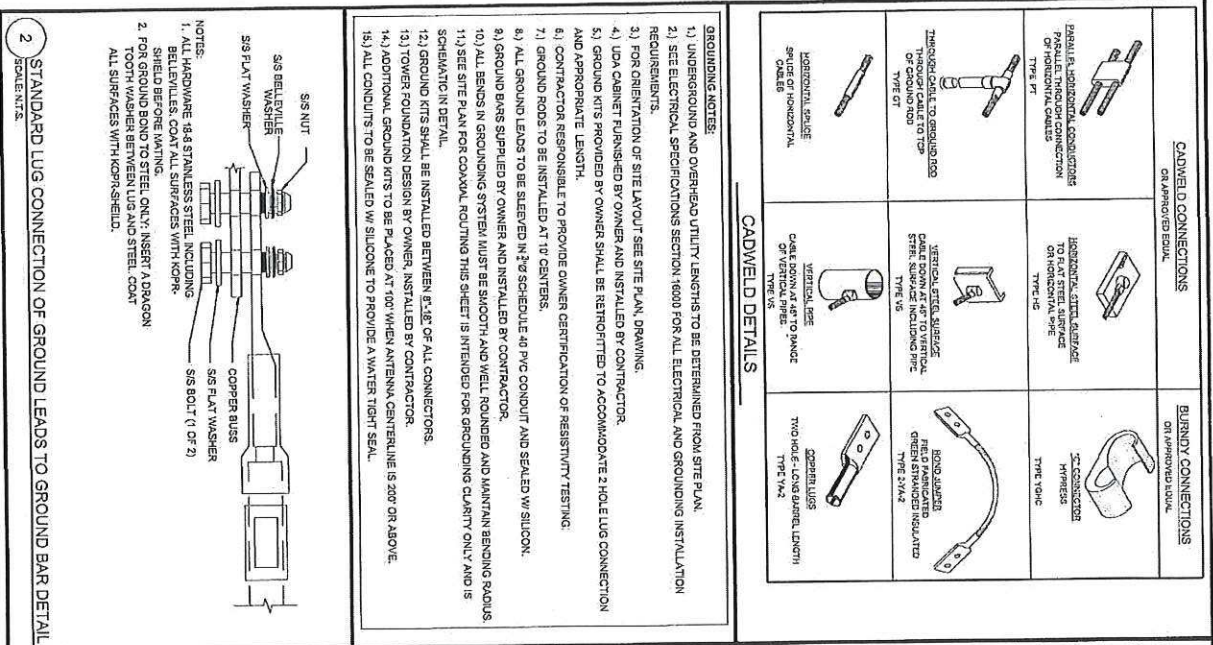


2 HP LARGE 3 SSC UTILITY ROUTING (LEFT SIDE)
SCALE: N.T.S.



3 HP LARGE 3 SSC UTILITY ROUTING (RIGHT SIDE)
SCALE: N.T.S.

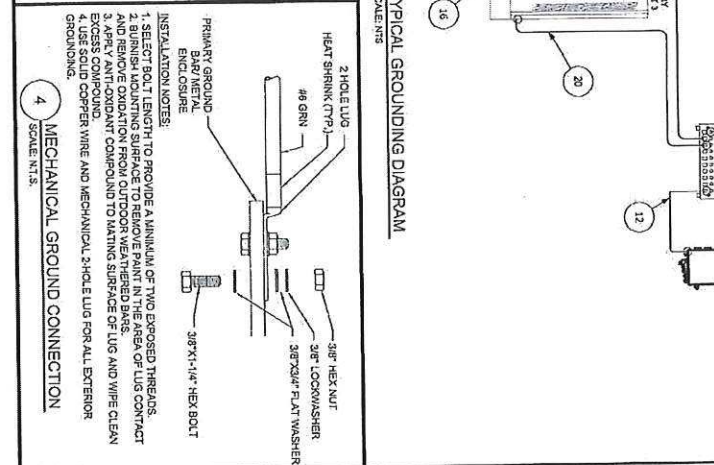
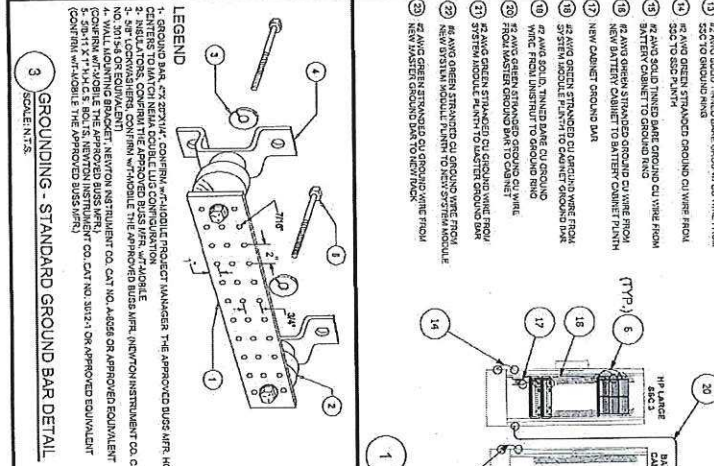
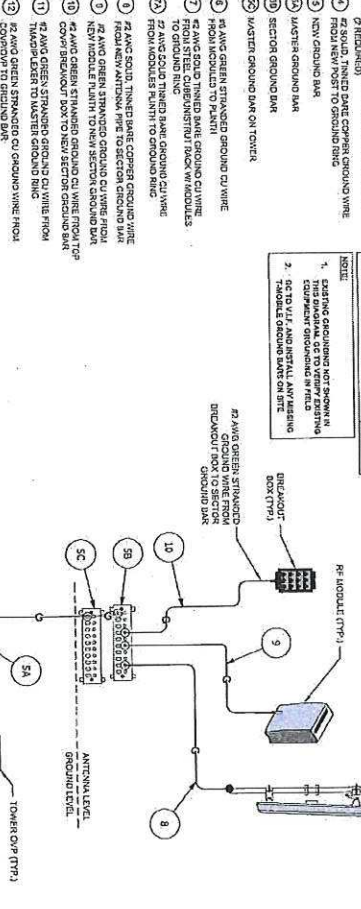
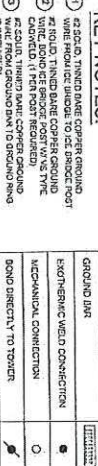
<p>MOBILE PLACE DOONERS CIRCLE, IL 60215 MAIN: (773) 444-5000</p>	<p>LESTER C. CANTRELL LCC ENGINEERING, INC. 1500 W. BROADWAY, SUITE 200 ROSEMOUNT, IL 60018 MAIN: (815) 500-0000</p>	<p>351 BANCROFT RD, SUITE 100 LAKE FOREST, IL 60045 MAIN: (847) 351-1000</p>	DRAWN BY: NC CHECKED BY: BH	CHECKED BY: QMS APPROVED BY: QMS



CADWELD DETAILS

GROUNDING NOTES:
 1.) UNDERGROUND AND OVERHEAD UTILITY LENGTHS TO BE DETERMINED FROM SITE PLAN.
 2.) SEE ELECTRICAL SPECIFICATIONS SECTION 16000 FOR ALL ELECTRICAL AND GROUNDING INSTALLATION REQUIREMENTS.
 3.) FOR ORIENTATION OF SITE LAYOUT SEE SITE PLAN, DRAWING.
 4.) LDC CABINET FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
 5.) GROUND RITS PROVIDED BY OWNER SHALL BE RETIGHTED TO ACCOMMODATE 2-HOLE LUG CONNECTION AND APPROPRIATE LENGTH.
 6.) CONTRACTOR RESPONSIBLE TO PROVIDE OWNER CERTIFICATION OF RESISTIVITY TESTING.
 7.) GROUND RODS TO BE INSTALLED AT 10' CENTERS.
 8.) ALL GROUND LEADS TO BE SLEEVED IN 1/2" PVC CONDUIT AND SEALED W/ SILICON.
 9.) GROUND BARS SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.
 10.) ALL BENDS IN GROUNDING SYSTEM MUST BE SMOOTH AND WELL ROUNDED AND MAINTAIN BENDING RADIUS.
 11.) SEE SITE PLAN FOR CANYAL ROUTING THIS SHEET IS INTENDED FOR GROUNDING CLARITY ONLY AND IS SCHEMATIC IN DETAIL.
 12.) GROUND RITS SHALL BE INSTALLED BETWEEN .875" OF ALL CONNECTORS.
 13.) TOWER FOUNDATION DESIGN BY OWNER, INSTALLED BY CONTRACTOR.
 14.) ADDITIONAL GROUND RITS TO BE PLACED AT 100' WHEN ANTENNA CENTERLINE IS 200' OR ABOVE.
 15.) ALL CONDUITS TO BE SEALED W/ SILICON TO PROVIDE A WATER TIGHT SEAL.

- KEY NOTES:**
 1. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM DC SOURCE TO DC SOURCE FOOT.
 2. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM ANTENNA PILE TO ANTENNA RIG (ALL PARTS REQUIRED).
 3. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 4. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 5. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
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 27. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
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 30. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 31. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 32. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
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 38. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
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 41. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 42. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 43. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 44. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 45. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 46. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 47. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 48. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 49. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.
 50. 2# SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW POWER PLANT TO GROUND BARS.



PROPOSED SITE GROUNDING DIAGRAM

CH41789A
 CPS THORP SCHOOL
 6024 W. WARWICK AVE.
 CHICAGO, IL 60634

EG-1

cordia
 245 Madison St., Suite 100
 Chicago, Illinois 60601
 (312) 467-8200
 www.cordia.com

LDC
 LDC TELECOM SERVICES, LLC
 10700 W. HIGGINS RD. SUITE 240
 ROSEMONT, IL 60018
 (630) 521-0000

Mobile
 T-MOBILE
 1400 ORISKANY BLVD
 DOWNERS GROVE, IL 60115
 (708) 444-6900

EXHIBIT "B"

PAYMENTS

TERM	ANNUAL LICENSE PAYMENTS
<p style="text-align: center;">1</p> <p>September 1, 2023 – August 31, 2024 September 1, 2024 – August 31, 2025 September 1, 2025 – August 31, 2026 September 1, 2026 – August 31, 2027 September 1, 2027 – August 31, 2028</p>	<p style="text-align: right;">60,000.00 61,800.00 63,654.00 65,564.00 67,531.00</p>
<p style="text-align: center;">2</p> <p>September 1, 2028 – August 31, 2029 September 1, 2029 – August 31, 2030 September 1, 2030 – August 31, 2031 September 1, 2031 – August 31, 2032 September 1, 2032 – August 31, 2033</p>	<p style="text-align: right;">69,557.00 71,644.00 73,793.00 76,007.00 78,287.00</p>
<p style="text-align: center;">3</p> <p>September 1, 2033 – August 31, 2034 September 1, 2034 – August 31, 2035 September 1, 2035 – August 31, 2036 September 1, 2036 – August 31, 2037 September 1, 2037 – August 31, 2038</p>	<p style="text-align: right;">80,636.00 83,055.00 85,547.00 88,113.00 90,756.00</p>
<p style="text-align: center;">4</p> <p>September 1, 2038 – August 31, 2039 September 1, 2039 – August 31, 2040 September 1, 2040 – August 31, 2041 September 1, 2041 – August 31, 2042 September 1, 2042 – August 31, 2043</p>	<p style="text-align: right;">93,479.00 96,283.00 99,171.00 102,146.00 105,210.00</p>