

SD Real Estate
Assets
City Consent Application

For Installation / modification of Telecommunication antenna facility on City owned property

6/10/2020

Date

The City of San Diego
Real Estate Assets Department
1200 Third Avenue, Suite 1700
San Diego, California 92101

RE: Site Name: SD06320A - PECHANGA ARENA
Site Address: 3500 Sports Arena Blvd, San Diego (the "Property")
Agreement: Agreement dated 8/6/1971 (the "agreement") between The City of San Diego ("City") and AEG Management SD, LLC ("Lessee" or "Permittee").

T-Mobile is seeking Consent from the City to perform the following to the above
Applicants Name/Carrier
referenced site:

- ☒ Modify, upgrade or changes to existing equipment or Site as describe in the attached plans / photos.
- ☐ Installation of a New Wireless Communication Facility on City owned property.
- ☐ Apply for new Permit/New Agreement on existing facility - **NO** modifications or changes to Existing equipment or site.

Describe proposed project below:

Remove three (3) existing total antennas
Remove six (6) existing RRUs
Relocate four (4) existing antennas
Install six (6) new antennas
Install six (6) new RRUs
Install new 6160 equipment cabinet
Install new B160 equipment cabinet

Pursuant to Improvements and Alterations, section of the above referenced agreement, "Lessee / Permittee shall not construct any improvements, structures or installations of the Premises or make any alterations to the Premises (with the exception of equipment replacement or repairs) without City's prior written approval."

In order to comply with such requirements, T-Mobile would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Christopher Ward, agent for T-Mobile

Applicant Signature: Christopher Ward
Digitally signed by Christopher Ward
DN: cn=Christopher Ward, o=SanDiego LLC, ou=
email=christopher.ward@sanDiego.com, c=US
Date: 2020.04.13 13:52:57 -0700

☐ A one-time, **non-refundable Processing Fee** (\$4,920 for long term agreements - \$980 for Short term or ROE Permits) payable to City Treasures, MUST be paid at the time of application. This fee applies even if the agreement is never executed.

AEG MANAGEMENT SD LLC has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed items listed herein, **with the understanding that the Department will be allowed to review the Improvement plans prior to any permits being issued** and that a pre-construction meeting will be conducted with staff before any work begins, if required.

7/7/2020

Date

JANET KELLEY

Print Name & Title
FINANCE DIRECTOR

janet kelley

Signature

City of San Diego, acknowledgement and consent for _____

Site Location

7/7/20

Date

CAROL MASON

Print Name & Title

Director, Real Estate Assets

Signature

For READ ONLY

☐
☐
☐

Approved and Stamped plans received and attached
Scan as Amendment to Agreement when executed
Processing fee received



Real Estate Assets



Real Estate Assets

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Sincerely, Christopher Ward, agent for T-Mobile

Applicant Signature: Christopher Ward

Digitally signed by Christopher Ward
DN: cn=Christopher Ward, o=Smartlink LLC, ou,
email=christopher.ward@smartlink.com, c=US
Date: 2020.04.13 13:32:57 -0700

☐ A one-time, **non-refundable Processing Fee** (\$4,920 for long term agreements - \$980 for Short term or ROE Permits) payable to City Treasures, MUST be paid at the time of application. This fee applies even if the agreement is never executed.

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Date Print Name & Title Signature

City of San Diego, acknowledgement and consent for _____
Site Location

Date Print Name & Title Signature

For READ ONLY

- ☐ Approved and Stamped plans received and attached
☐ Scan as Amendment to Agreement when executed
☐ Processing fee received



Real Estate Assets



ANCHOR MODIFICATION

SITE ID: SD06320A

PAY ONE ARENA

3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110

SITE INFORMATION

PROPERTY OWNER: ARENA GROUP 2000 LLC
CONTACT: RONALD HAHN
PH: (619) 226-4825

APPLICANT: T-MOBILE
ADDRESS:

LAT/LONG TYPE: NAD-83
LATITUDE: 32° 45' 20.7" N
LONGITUDE: 117° 12' 45.9" W
ZONING JURISDICTION: CITY OF SAN DIEGO
ZONING CLASSIFICATION: CC-3-1; RM-2-5
CURRENT USE: UNMANNED TELECOMMUNICATIONS FACILITY
ASSESSOR'S PARCEL NO.: 441-590-04
PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY
TYPE OF CONSTRUCTION: 1-A (SPRINKLERED)
OCCUPANCY GROUP: A-5

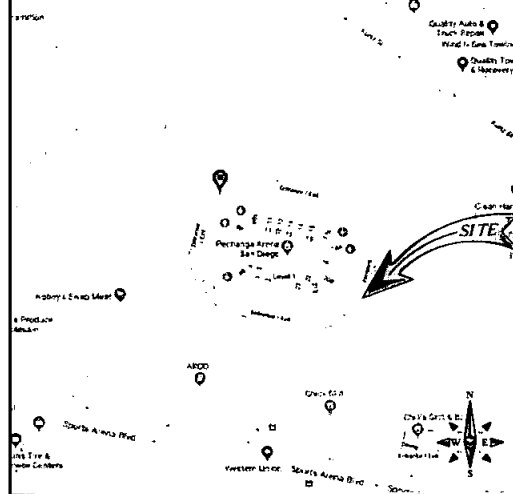
PROJECT TEAM

PROJECT MANAGER:
SMARTLINK
18301 VON KARMAN AVE
IRVINE, CA 92612
CONTACT: SAMUEL GUDINO
PHONE: (780) 812-9949
EMAIL: sgudino@smartlink.com

ENGINEER:
M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE, CA 95063
CONTACT: MICHAEL MONTELEO
PHONE: (619) 957-4012
EMAIL: michael@msquaredwireless.com

RF ENGINEER:
T-MOBILE USA
10509 VISTA SORRENTO PARKWAY
SUITE 2018
SAN DIEGO, CA 92121
CONTACT: PEDRO ABE
PHONE: (658) 334-2128
EMAIL: pedro.abe@t-mobile.com

VICINITY MAP



DRIVING DIRECTIONS

DIRECTIONS FROM SAN DIEGO INTERNATIONAL AIRPORT:

1. HEAD EAST ON N HARBOR DR TOWARD MCCAIN RD
2. MAKE A U-TURN AT MCCAIN RD
3. TURN RIGHT ONTO LANING RD
4. TURN RIGHT ONTO ROSECRANS ST
5. TURN LEFT ONTO SPORTS ARENA BLVD
6. TURN RIGHT AT KEMPER ST
7. TURN RIGHT
8. TURN LEFT
9. TURN RIGHT
10. YOUR DESTINATION WILL BE ON THE RIGHT

PROJECT DESCRIPTION

T-MOBILE PROPOSES TO MODIFY AN EXISTING WIRELESS INSTALLATION. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- REMOVE (3) EXISTING T-MOBILE PANEL ANTENNAS
- REMOVE (3) EXISTING T-MOBILE RRUS-11 B12 @ ANTENNA LEVEL
- REMOVE (3) EXISTING T-MOBILE RRUS-32 B2 @ ANTENNA LEVEL
- RELOCATE (4) EXISTING T-MOBILE PANEL ANTENNAS
- REMOVE (2) EXISTING T-MOBILE PLUMB BASE @ GROUND EQUIPMENT LEVEL
- INSTALL (3) NEW T-MOBILE 2-0' PANEL ANTENNAS
- INSTALL (3) NEW T-MOBILE 8-0' PANEL ANTENNAS
- INSTALL (3) NEW T-MOBILE FRP SCREENS
- INSTALL (3) NEW T-MOBILE RRUS 4424 B25 @ ANTENNA LEVEL
- INSTALL (3) NEW T-MOBILE RRUS 4449 B71B12 @ ANTENNA LEVEL
- INSTALL (1) NEW T-MOBILE 8190 EQUIPMENT CABINET @ GROUND EQUIPMENT LEVEL
- INSTALL (1) NEW T-MOBILE 8190 EQUIPMENT CABINET @ GROUND EQUIPMENT LEVEL
- INSTALL (4) NEW T-MOBILE 8630 UNITS IN (N) 8190 CABINET @ GROUND EQUIPMENT LEVEL
- INSTALL (1) NEW T-MOBILE 8645 UNITS IN (N) 8190 CABINET @ GROUND EQUIPMENT LEVEL

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2018 CALIFORNIA BUILDING CODE. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.

ENGINEERING

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- 2018 BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2018 MECHANICAL CODE
- 2018 FIRE CODE
- 2018 PLUMBING CODE
- 2018 ELECTRICAL CODE
- LOCAL BUILDING CODE

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CONSTRUCTION DRAWING

IF USING 11'X17" PLOT, DRAWINGS WILL BE HALF SCALE

DRAWING INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
GN-1	GENERAL NOTES
A-1	SITE PLAN & ENLARGED ROOF PLAN
A-2	EQUIPMENT LAYOUT
A-3	EXISTING ANTENNA LAYOUT
A-3.1	NEW ANTENNA LAYOUT
A-4	ELEVATIONS
A-5	ELEVATIONS
D-1	DETAILS
D-2	DETAILS
G-1	GROUNDING DETAILS
RF-1	CABLE LINE DIAGRAM

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.

T-MOBILE RF ENGINEER: _____ DATE: _____
T-MOBILE OPERATIONS: _____ DATE: _____
SITE ACQUISITION: _____ DATE: _____
CONSTRUCTION MANAGER: _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____
ZONING: _____ DATE: _____
PROJECT MANAGER: _____ DATE: _____

T-Mobile



1387 CALLE AVANZADO
SAN CLEMENTE, CA 95063 (408) 381-8834

DRAWN BY: JLV

CHECKED BY: MM

REV	DATE	DESCRIPTION
A	05/19/2020	90% CDS FOR REVIEW

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ANCHOR MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE

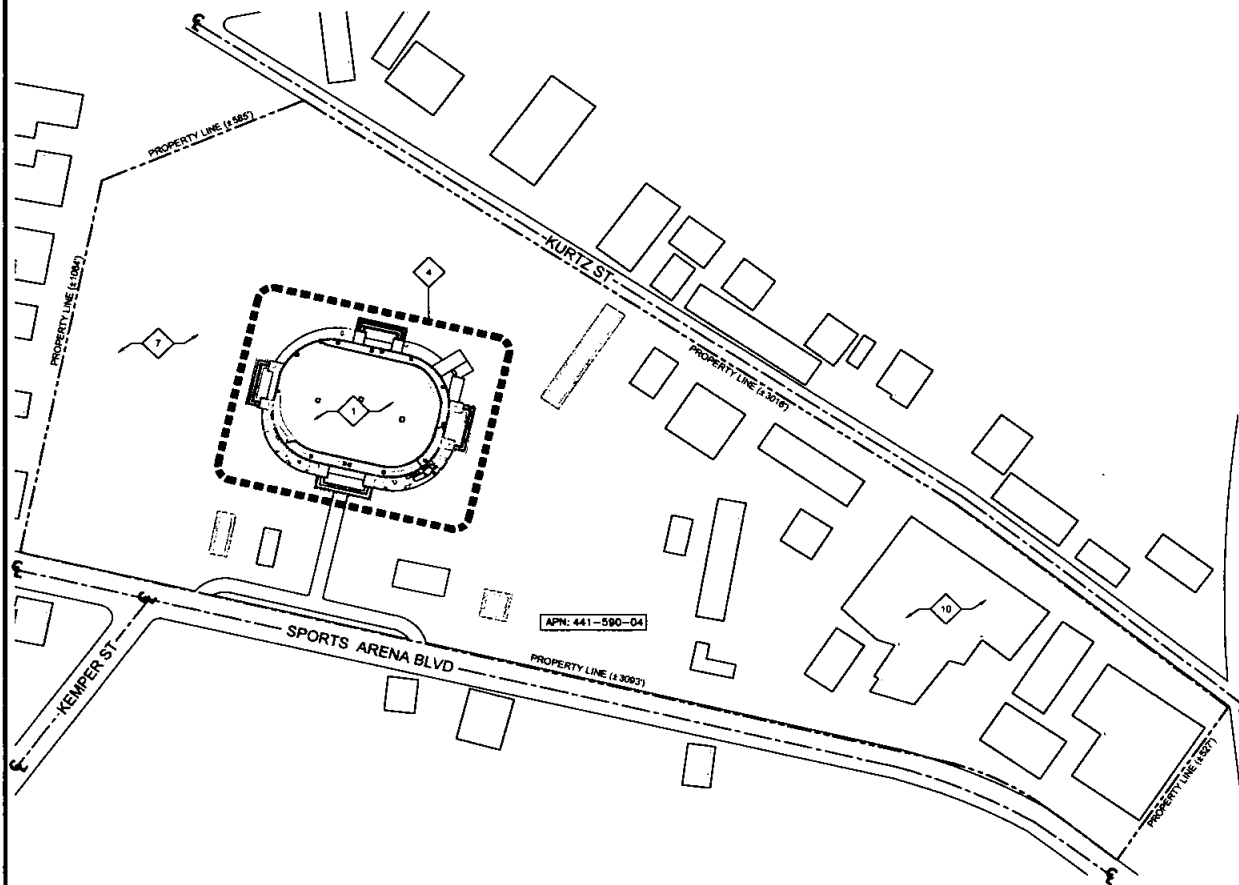
TITLE SHEET

SHEET NUMBER

T-1

- 1 (E) BUILDING ROOFTOP (TYP)
 2 (E) T-MOBILE EQUIPMENT AREA (A-2)
 3 (E) T-MOBILE ANTENNA AREA (A-3)
 4 FOR ENLARGED ROOF PLAN SEE: 2
 5 (E) PANEL ANTENNAS BY OTHERS (TYP)
 6 (E) EQUIPMENT AREA BY OTHERS (TYP)
 7 (E) T-MOBILE ROOF MOUNTED CABLE TRAY
 8 (E) ROOF MOUNTED CABLE TRAY BY OTHERS (TYP)
 9 (E) TREE (TYP)
 10 (E) BUILDING (TYP)

KEYNOTES:



NOTES:

- THE WIRELESS COMMUNICATION FACILITY COMPLETES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
- NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION.
- THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

DISCLAIMER:

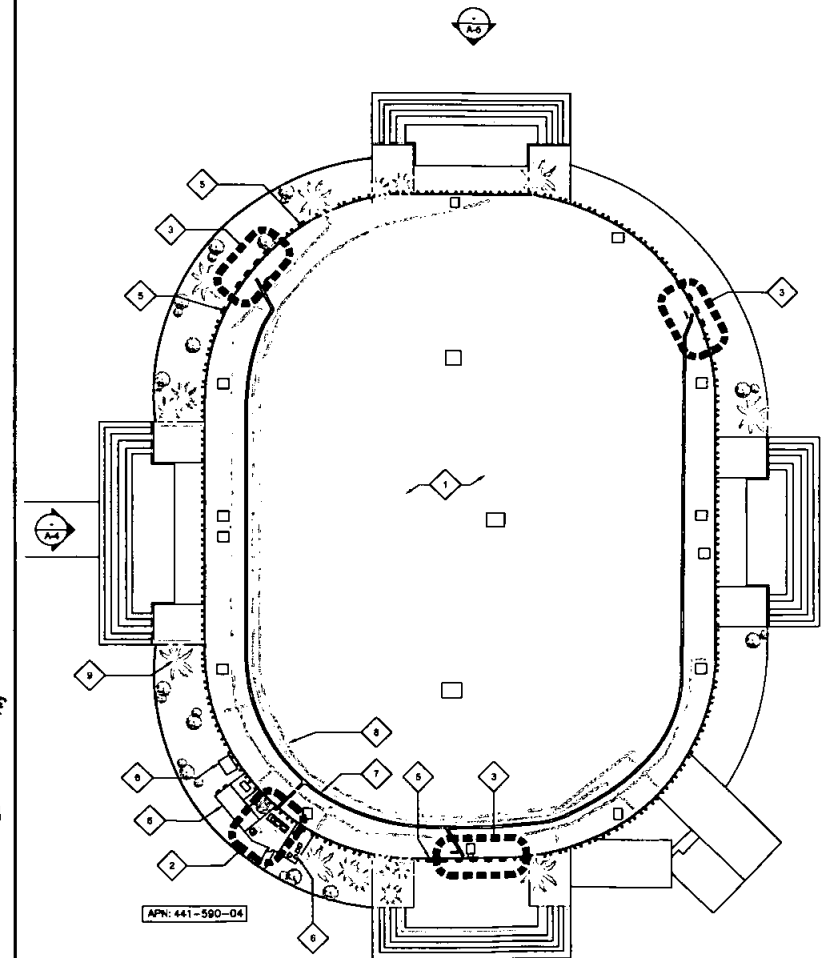
THIS SET OF DRAWINGS WAS PREPARED UTILIZING INFORMATION OBTAINED FROM PUBLIC DOCUMENTS MADE AVAILABLE ON JURISDICTION WEBSITE. M SQUARED WIRELESS CANNOT GUARANTEE THE ACCURACY OF THE DATA AND INFORMATION DEPICTED AND HEREBY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE TRUTH, VALIDITY, INVALIDITY, ACCURACY, INACCURACY OF ANY SAID DATA AND INFORMATION. THE PARCEL LINES ON MAPS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A SURVEY PRODUCT. USER ACCEPTS RESPONSIBILITY FOR THE UNAUTHORIZED USE OR TRANSMISSION OF ANY SUCH DATA OR INFORMATION IN ITS ACTUAL OR ALTERED FORM.



24"x36" SCALE: 1" = 200'-0"
 11"x17" SCALE: 1" = 400'-0"

1

ENLARGED ROOF PLAN



24"x36" SCALE: 1" = 50'-0"
 11"x17" SCALE: 1" = 100'-0"

2

T-Mobile

smartlink

M SQUARED WIRELESS

1367 CALLE AVANZADO
 SAN CLEMENTE CA 92673 (949) 991-8834

DRAWN BY: JNV

CHECKED BY: NMI

REV	DATE	DESCRIPTION
A	05/18/2020	80% CDS FOR REVIEW

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, ENGINEER, TO ALTER THIS DOCUMENT.

ANCHOR MODIFICATION
 SITE ID: SD06320A
 PAY ONE ARENA
 3500 SPORTS ARENA BLVD
 SAN DIEGO, CA 92110
 ROOFTOP

SHEET TITLE
 SITE PLAN AND
 ENLARGED ROOF PLAN

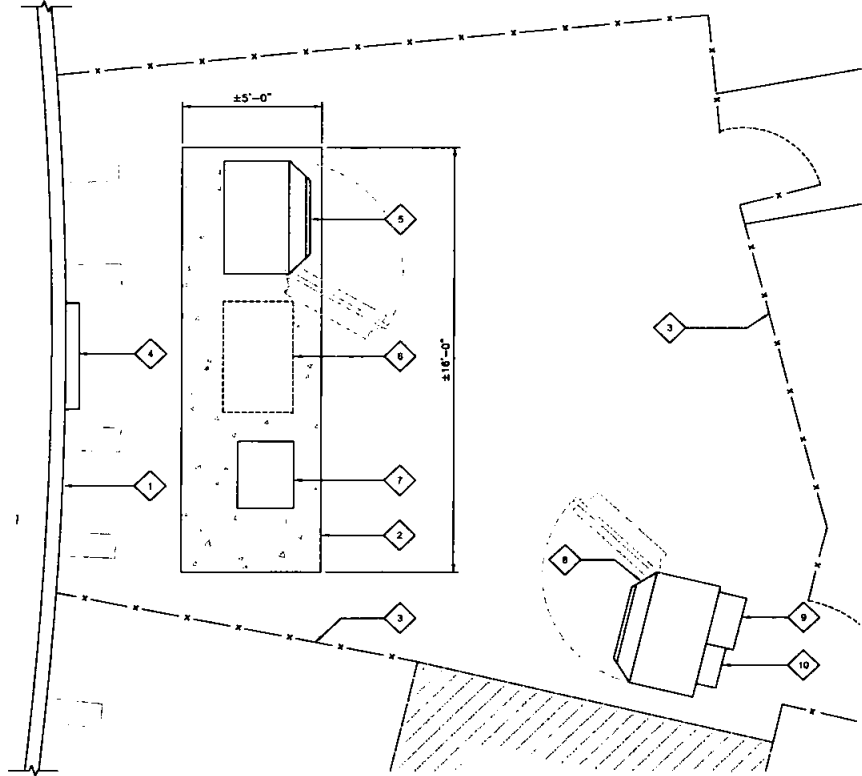
SHEET NUMBER

A-1

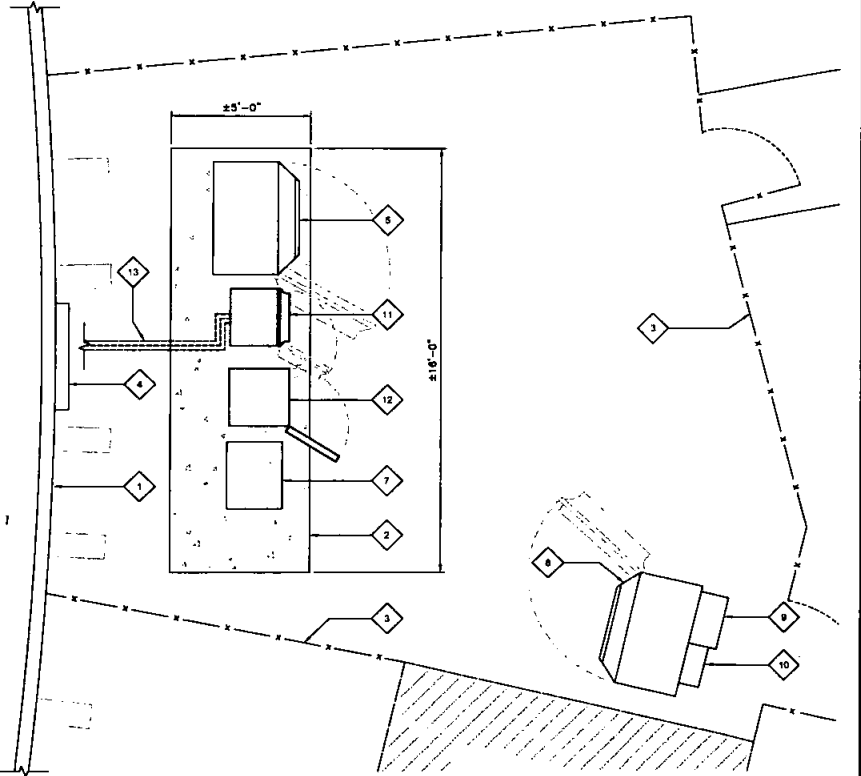
SITE PLAN

- 1 (E) BUILDING (TYP)
- 2 (E) T-MOBILE CONCRETE EQUIPMENT PAD
- 3 (E) T-MOBILE CHAIN LINK FENCE ENCLOSURE
- 4 (E) T-MOBILE VERTICAL CABLE LADDER
- 5 (E) T-MOBILE 2106 CABINET
- 6 (E) T-MOBILE PLINTH BASE TO BE REMOVED
- 7 (E) T-MOBILE ELECTRICAL TRANSFORMER
- 8 (E) T-MOBILE 3106 CABINET
- 9 (E) T-MOBILE FIBER BOX
- 10 (E) T-MOBILE TELCO INTERFACE BOX
- 11 (H) T-MOBILE 6180 EQUIPMENT CABINET WITH: (H) (4) 6630 & (1) 6648 WITHIN, MOUNTED ON (E) CONCRETE PAD 6.7
D-1 D-2
- 12 (H) T-MOBILE 6180 BATTERY CABINET MOUNTED ON (E) CONCRETE PAD; (1) TOTAL 6.7
D-1
- 13 (H) T-MOBILE 6x12 HCS 6610 CABLES TO FOLLOW (E) CABLE ROUTE

NOTE:
1. (E) T-MOBILE PANEL ANTENNAS NOT SHOWN FOR CLARITY.



NOTE:
1. (E) T-MOBILE PANEL ANTENNAS NOT SHOWN FOR CLARITY.



KEYNOTES:

EXISTING EQUIPMENT LAYOUT

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0"



1

NEW EQUIPMENT LAYOUT

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0"



2



M SQUARED
WIRELESS
1587 GALLS AVENUE
SAN CLEMENTE CA 92673 (949) 381-6824

DRAWN BY: JLV
CHECKED BY: MM

REV	DATE	DESCRIPTION
A	05/19/2020	90% CDS FOR REVIEW

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ANCHOR MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
EQUIPMENT LAYOUT

SHEET NUMBER
A-2

FINAL OPTIMAL ANTENNA & TRANSMISSION CABLE REQUIREMENTS (VERIFY WITH CURRENT RFDS)				ANTENNA MAKE AND MODEL		RAD CENTER		AZIMUTH		TRANSMISSION LINE	
ANTENNA POSITION	TECHNOLOGY	ANTENNA COUNT		EXISTING	FINAL	EXISTING	FINAL	EXISTING	FINAL	CABLE LENGTH	FEEDER TYPE
SECTOR A	1	U1900, G1900	1	(E) ERICSSON AIR21 B2A-B4P (QUAD)	--	66°-0"	--	353°	--	±600'	(E) HCS
	2	L2100, L1900	1	(E) ERICSSON AIR32 B4A-B2P (OCTO)	--	66°-0"	--	353°	--	±600'	(E) HCS
	3	L700	1	(E) ANDREW LNX-6515-A1M (DUAL)	--	66°-0"	--	343°	--	±600'	(E) HCS
	4	--	--	--	--	--	--	--	--	--	--
SECTOR B	1	U1900, G1900	1	(E) ERICSSON AIR21 B2A-B4P (QUAD)	--	66°-0"	--	104°	--	±200'	(E) HCS
	2	L2100, L1900	1	(E) ERICSSON AIR32 B4A-B2P (OCTO)	--	66°-0"	--	104°	--	±200'	(E) HCS
	3	L700	1	(E) ANDREW LNX-6515-A1M (DUAL)	--	66°-0"	--	107°	--	±200'	(E) HCS
	4	--	--	--	--	--	--	--	--	--	--
SECTOR C	1	U1900, G1900	1	(E) ERICSSON AIR21 B2A-B4P (QUAD)	--	66°-0"	--	233°	--	±500'	(E) HCS
	2	L2100, L1900	1	(E) ERICSSON AIR32 B4A-B2P (OCTO)	--	66°-0"	--	233°	--	±500'	(E) HCS
	3	L700	1	(E) ANDREW LNX-6515-A1M (DUAL)	--	66°-0"	--	239°	--	±500'	(E) HCS
	4	--	--	--	--	--	--	--	--	--	--

REMOTE RADIO UNITS				DC CABLES	
ANTENNA POSITION	RRUS MAKE AND MODEL	RRUS COUNT	LENGTH	AWG	
SECTOR A	1	--	--	--	--
	2	(E) ERICSSON RRUS-32 B2	1	±800'	--
	3	(E) ERICSSON RRUS-11 B12	1	±800'	--
	4	--	--	--	--
SECTOR B	1	--	--	--	--
	2	(E) ERICSSON RRUS-32 B2	1	±200'	--
	3	(E) ERICSSON RRUS-11 B12	1	±200'	--
	4	--	--	--	--
SECTOR C	1	--	--	--	--
	2	(E) ERICSSON RRUS-32 B2	1	±500'	--
	3	(E) ERICSSON RRUS-11 B12	1	±500'	--
	4	--	--	--	--

NOTES TO CONTRACTOR:

- CONTRACTOR IS TO REFER TO T-MOBILE'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
- CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.

NOTE:

- (E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.
- NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

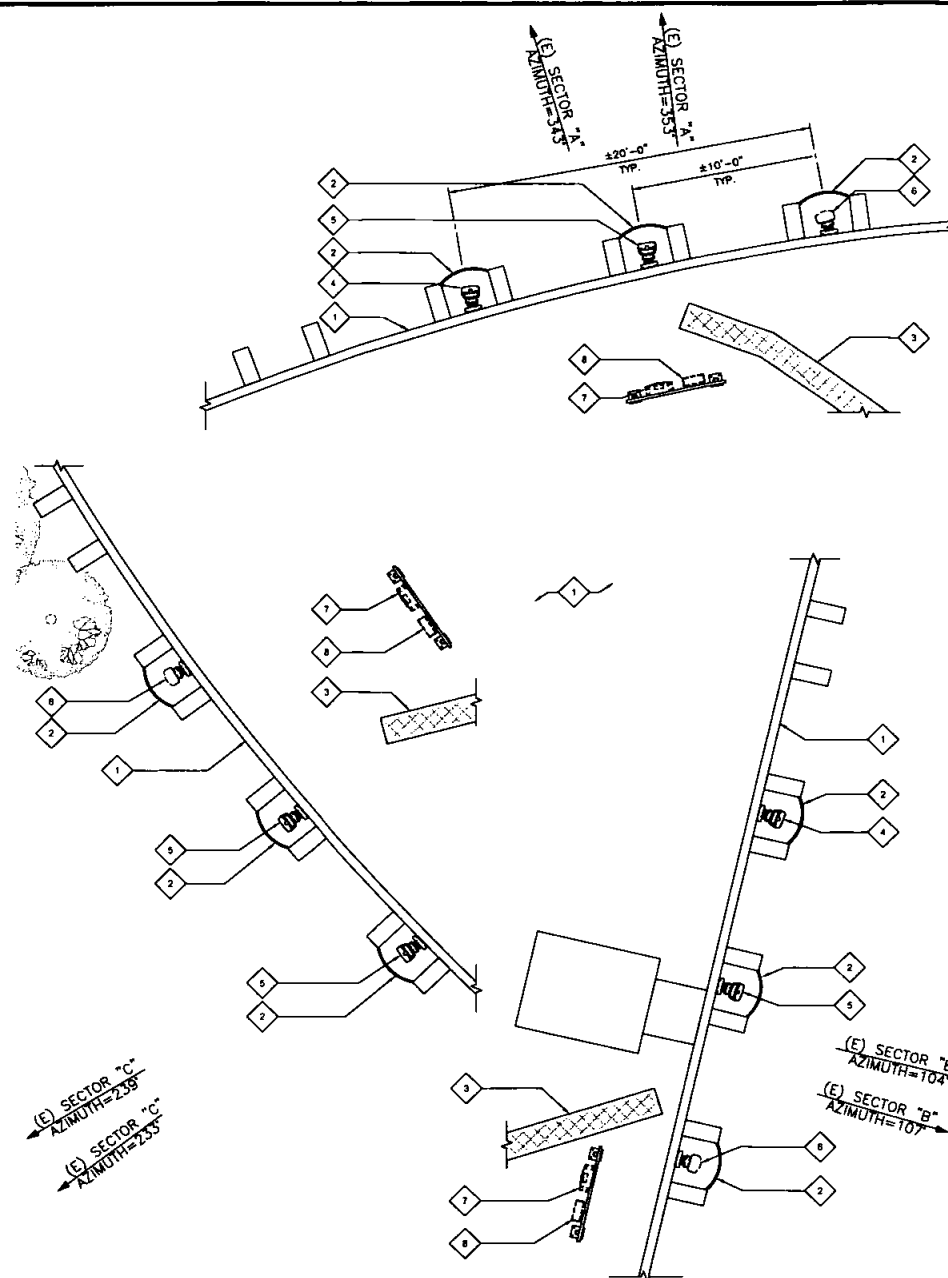
NOTE:

PRIOR TO ORDERING ANTENNAS VERIFY CORRECT MODEL NUMBER WITH LATEST RFDS AND NOTIFY ENGINEER OF RECORD IMMEDIATELY IF DISCREPANCY IS FOUND.

ANTENNA & EQUIPMENT SCHEDULE

- 1 (E) BUILDING (TYP.)
- 2 (E) T-MOBILE FRP SCREEN TO REMAIN;
(3) PER SECTOR, (9) TOTAL TYP.
- 3 (E) T-MOBILE ROOF MOUNTED CABLE TRAY, TYP.
- 4 (E) T-MOBILE 4'-8" PANEL ANTENNA TO REMAIN;
(2) TOTAL
- 5 (E) T-MOBILE 4'-8" PANEL ANTENNA TO BE RELOCATED;
(4) TOTAL
- 6 (E) T-MOBILE 5'-8" PANEL ANTENNA TO BE REMOVED;
(1) PER SECTOR, (3) TOTAL
- 7 (E) T-MOBILE RRUS-32 B2 TO BE REMOVED AND REPLACED; (1) PER SECTOR, (3) TOTAL TYP.
- 8 (E) T-MOBILE RRUS-11 B12 TO BE REMOVED AND REPLACED; (1) PER SECTOR, (3) TOTAL TYP.

- NOTE:**
- CONTRACTOR TO VERIFY APPROVED STRUCTURAL ANALYSIS PRIOR TO INSTALLATION.
 - CONTRACTOR TO VERIFY ANTENNA TECHNOLOGIES PRIOR TO REMOVAL OF ANY ANTENNAS.
 - CONTRACTOR TO SUPPLY WEATHERPROOFING FOR CONNECTIONS.
 - GENERAL CONTRACTOR TO PROVIDE MOUNTS OR ADDITIONAL HARDWARE IF REQUIRED TO SUPPORT PROPOSED ANTENNAS. ALL ANTENNAS & MOUNTING HARDWARE SHALL CONFORM TO DESIGN REQUIREMENTS PER 2013 IBC/2015 CBC AND EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.



KEYNOTES:

EXISTING ANTENNA PLAN

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/2" = 1'-0"



1

T-Mobile

smartlink

M SQUARE WIRELESS

1387 CALLE AVANZADO
SAN CLEMENTE CA 95073 (408) 981-8834

DRAWN BY: JLV

CHECKED BY: MRM

REV	DATE	DESCRIPTION
A	05/19/2020	90% CD'S FOR REVIEW

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SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
EXISTING ANTENNA LAYOUT

SHEET NUMBER

A-3

FINAL OPTIMAL ANTENNA & TRANSMISSION CABLES REQUIREMENTS (VERIFY WITH CURRENT RFDS)				ANTENNA MAKE AND MODEL		RAD CENTER		AZIMUTH		TRANSMISSION LINE	
ANTENNA POSITION	TECHNOLOGY	ANTENNA COUNT		EXISTING	FINAL	EXISTING	FINAL	EXISTING	FINAL	CABLE LENGTH	FEEDER TYPE
1	L2500, N2500	1			(N) ERICSSON AIR32 B4A-B2P (OCTO)	66'-0"	66'-0"	35.3	35.3	±600'	(N) FIBER
2	U1900, C1900	1		(E) ERICSSON AIR21 B2A-B4P (QUAD)	(E) ERICSSON AIR21 B2A-B4P (QUAD)	66'-0"	66'-0"	35.3	35.3	±600'	(E) HCS
3	L700, L800, N800, L1900	1		(E) ERICSSON AIR32 B4A-B2P (OCTO)	(N) RFS-APKVAARR24_43-U-NA20 (QUAD)	66'-0"	66'-0"	34.3	34.3	±600'	(N) FIBER
4	L2100	1		(E) ANDREW LNX-8515-A1M (DUAL)	(E) ERICSSON AIR32 B4A-B2P (OCTO)	66'-0"	66'-0"	35.3	35.3	±800'	(E) HCS
1	L2500, N2500	1			(N) ERICSSON AIR32 B4A-B2P (OCTO)	66'-0"	66'-0"	35.3	35.3	±800'	(E) HCS
2	U1900, C1900	1		(E) ERICSSON AIR21 B2A-B4P (QUAD)	(E) ERICSSON AIR21 B2A-B4P (QUAD)	66'-0"	66'-0"	104'	104'	±200'	(E) HCS
3	L700, L800, N800, L1900	1		(E) ERICSSON AIR32 B4A-B2P (OCTO)	(N) RFS-APKVAARR24_43-U-NA20 (QUAD)	66'-0"	66'-0"	107'	107'	±200'	(N) FIBER
4	L2100	1		(E) ANDREW LNX-8515-A1M (DUAL)	(E) ERICSSON AIR32 B4A-B2P (OCTO)	66'-0"	66'-0"	104'	104'	±200'	(E) HCS
1	L2500, N2500	1			(N) ERICSSON AIR32 B4A-B2P (OCTO)	66'-0"	66'-0"	23.3	23.3	±500'	(N) FIBER
2	U1900, C1900	1		(E) ERICSSON AIR21 B2A-B4P (QUAD)	(E) ERICSSON AIR21 B2A-B4P (QUAD)	66'-0"	66'-0"	23.3	23.3	±500'	(E) HCS
3	L700, L800, N800, L1900	1		(E) ERICSSON AIR32 B4A-B2P (OCTO)	(N) RFS-APKVAARR24_43-U-NA20 (QUAD)	66'-0"	66'-0"	23.3	23.3	±500'	(N) FIBER
4	L2100	1		(E) ANDREW LNX-8515-A1M (DUAL)	(E) ERICSSON AIR32 B4A-B2P (OCTO)	66'-0"	66'-0"	23.3	23.3	±500'	(E) HCS

REMOTE RADIO UNITS				DC CABLES	
ANTENNA POSITION	RRUS MAKE AND MODEL	RRUS COUNT	LENGTH	AWG	
1					
2					
3	(N) RRUS 4434 B25 (N) RRUS 4448 B71/B8	2	±600'		
4					
1					
2					
3	(N) RRUS 4434 B25 (N) RRUS 4448 B71/B8	2	±200'		
4					
1					
2					
3	(N) RRUS 4434 B25 (N) RRUS 4448 B71/B8	2	±500'		
4					

NOTES TO CONTRACTOR:

- CONTRACTOR IS TO REFER TO T-MOBILE'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
- CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.

NOTE:

- (E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.
- NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

NOTE:

PRIOR TO ORDERING ANTENNAS VERIFY CORRECT MODEL NUMBER WITH LATEST RFDS AND NOTIFY ENGINEER OF RECORD IMMEDIATELY IF DISCREPANCY IS FOUND.

ANTENNA & EQUIPMENT SCHEDULE

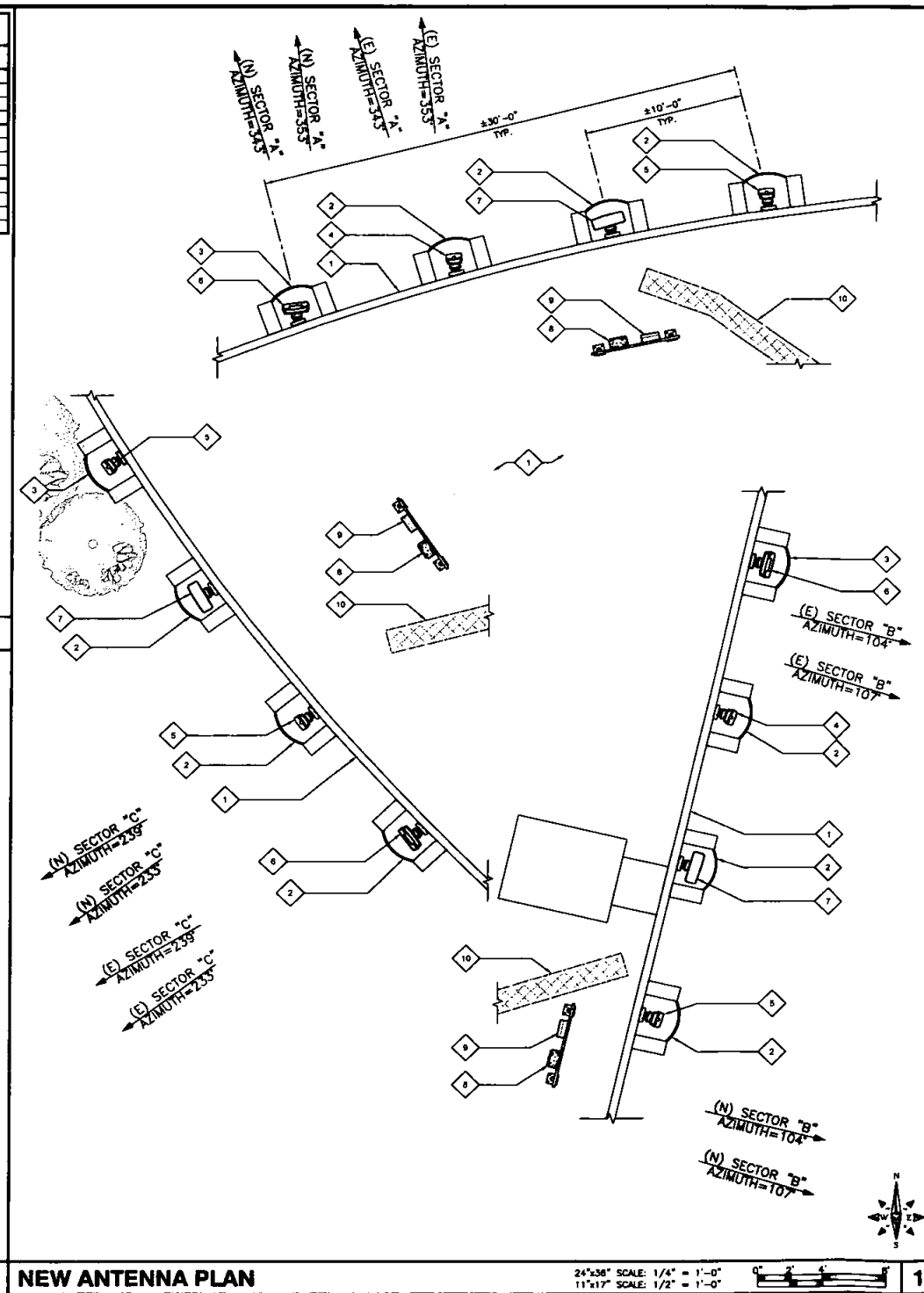
- (E) BUILDING (TYP)
- (E) T-MOBILE FRP SCREEN TO REMAIN:
(3) PER SECTOR, (9) TOTAL TYP.
- (N) (3) T-MOBILE FRP SCREEN BOX;
(1) PER SECTOR
- (E) T-MOBILE 4'-8" PANEL ANTENNA TO REMAIN:
(2) TOTAL
- (E) RELOCATED T-MOBILE 4'-8" PANEL ANTENNA:
(4) TOTAL
- (N) T-MOBILE 2'-9" PANEL ANTENNA MOUNTED ON (N) PIPE MAST; (1) PER SECTOR, (4) TOTAL
- (N) T-MOBILE 8'-0" PANEL ANTENNA MOUNTED ON (N) PIPE MAST; (1) PER SECTOR, (4) TOTAL
- (N) T-MOBILE RRUS 4448 B71+B12 MOUNTED TO (E) H-FRAME; (1) PER SECTOR, (3) TOTAL
- (N) T-MOBILE RRUS 4434 B25 MOUNTED TO (E) H-FRAME; (1) PER SECTOR, (3) TOTAL
- (E) T-MOBILE ROOF MOUNTED CABLE TRAY, TYP.

NOTE:

- CONTRACTOR TO VERIFY APPROVED STRUCTURAL ANALYSIS PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY ANTENNA TECHNOLOGIES PRIOR TO REMOVAL OF ANY ANTENNAS.
- CONTRACTOR TO SUPPLY WEATHERPROOFING FOR CONNECTIONS.
- GENERAL CONTRACTOR TO PROVIDE MOUNTS OR ADDITIONAL HARDWARE IF REQUIRED TO SUPPORT PROPOSED ANTENNAS. ALL ANTENNAS & MOUNTING HARDWARE SHALL CONFORM TO DESIGN REQUIREMENTS PER 2013 IBC/2018 CBC AND EARTH-224-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.

KEYNOTES:

NEW ANTENNA PLAN



1887 GALLE AVANZADO
SAN CLEMENTE CA 92679 (949) 361-9834

DRAWN BY: JUV
CHECKED BY: MM

REV	DATE	DESCRIPTION
A	05/18/2020	90% CDS FOR REVIEW

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ANCHOR MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
ANTENNA LAYOUT

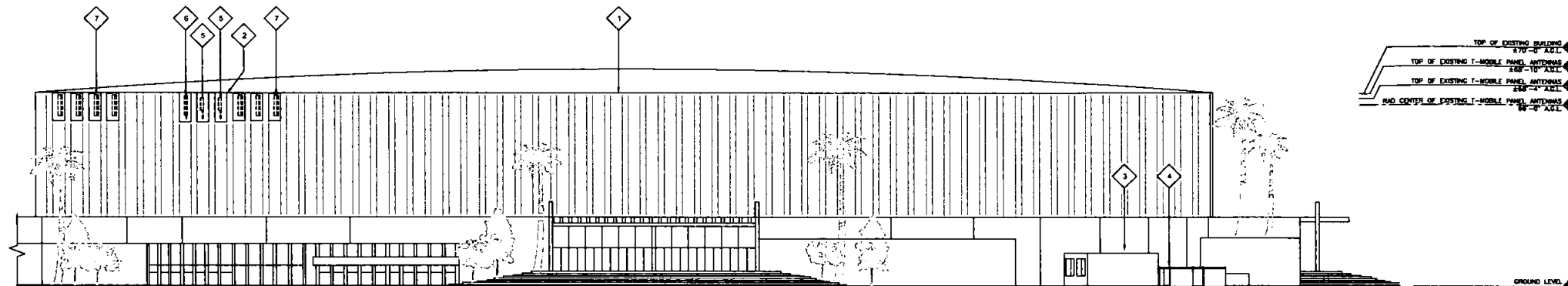
SHEET NUMBER
A-3.1

- 1 (E) BUILDING
- 2 (E) T-MOBILE FRP SCREEN TO REMAIN:
(3) PER SECTOR, (9) TOTAL TYP.
- 3 (E) EQUIPMENT AREA BY OTHERS
- 4 (E) T-MOBILE EQUIPMENT AREA
- 5 (E) T-MOBILE 4'-8" PANEL ANTENNA TO BE RELOCATED:
(4) TOTAL
- 6 (E) T-MOBILE 5'-8" PANEL ANTENNA TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL
- 7 (E) ANTENNAS BY OTHERS
- 8 (E) RELOCATED T-MOBILE 4'-8" PANEL ANTENNA:
(4) TOTAL
- 9 (H) (3) T-MOBILE FRP SCREEN BOX; (1) PER SECTOR $\frac{6}{D-1}$
- 10 (H) T-MOBILE 2'-9" PANEL ANTENNA MOUNTED
ON (H) PIPE MAST; (1) PER SECTOR, (4) TOTAL $\frac{2.3}{D-1}$
- 11 (H) T-MOBILE 8'-0" PANEL ANTENNA MOUNTED
ON (H) PIPE MAST; (1) PER SECTOR, (4) TOTAL $\frac{1.3}{D-1}$

NOTE:

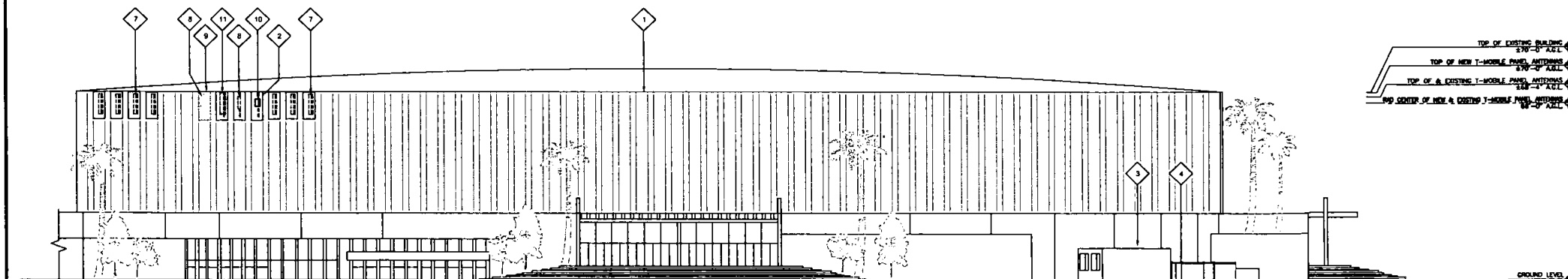
1. NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

KEYNOTES:



EXISTING SOUTH ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"



PROPOSED SOUTH ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"

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M SQUARE
WIRELESS

1887 GALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 381-8824

DRAWN BY: JUV

CHECKED BY: MM

REV	DATE	DESCRIPTION
A	05/19/2020	90% CD'S FOR REVIEW

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ANCHOR MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE

ELEVATIONS

SHEET NUMBER

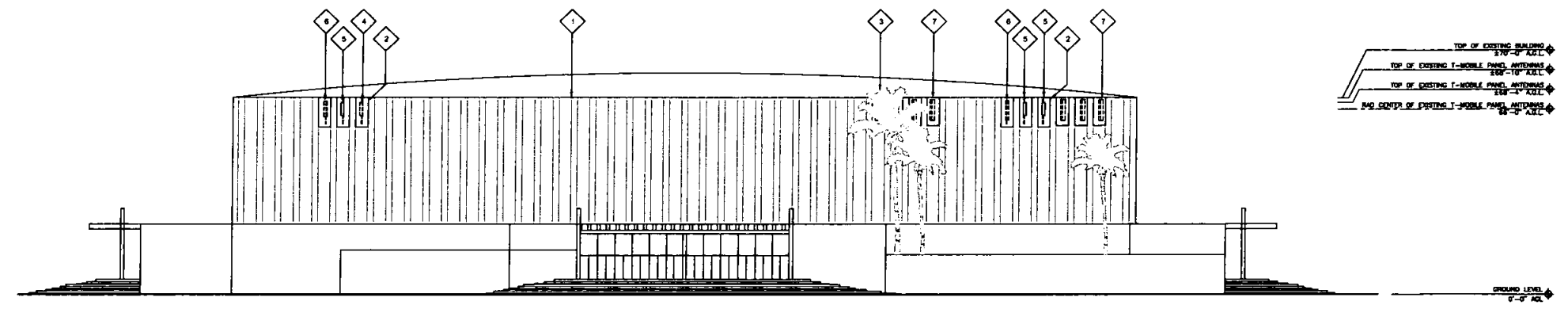
A-4

- 1 (E) BUILDING
- 2 (E) T-MOBILE FRP SCREEN TO REMAIN;
(3) PER SECTOR, (8) TOTAL TYP.
- 3 (E) TREE, TYP.
- 4 (E) T-MOBILE 4'-8" PANEL ANTENNA TO REMAIN;
(2) TOTAL
- 5 (E) T-MOBILE 4'-8" PANEL ANTENNA TO BE RELOCATED;
(4) TOTAL
- 6 (E) T-MOBILE 5'-8" PANEL ANTENNA TO BE REMOVED;
(1) PER SECTOR, (3) TOTAL
- 7 (E) ANTENNAS BY OTHERS
- 8 (E) RELOCATED T-MOBILE 4'-8" PANEL ANTENNA;
(4) TOTAL

- 9 (M) (3) T-MOBILE FRP SCREEN BOX; (1) PER SECTOR 9
D-1
- 10 (M) T-MOBILE 2'-8" PANEL ANTENNA MOUNTED 2.3
ON (M) PIPE MAST; (1) PER SECTOR, (4) TOTAL D-1
- 11 (M) T-MOBILE 8'-0" PANEL ANTENNA MOUNTED 1.3
ON (M) PIPE MAST; (1) PER SECTOR, (4) TOTAL D-1

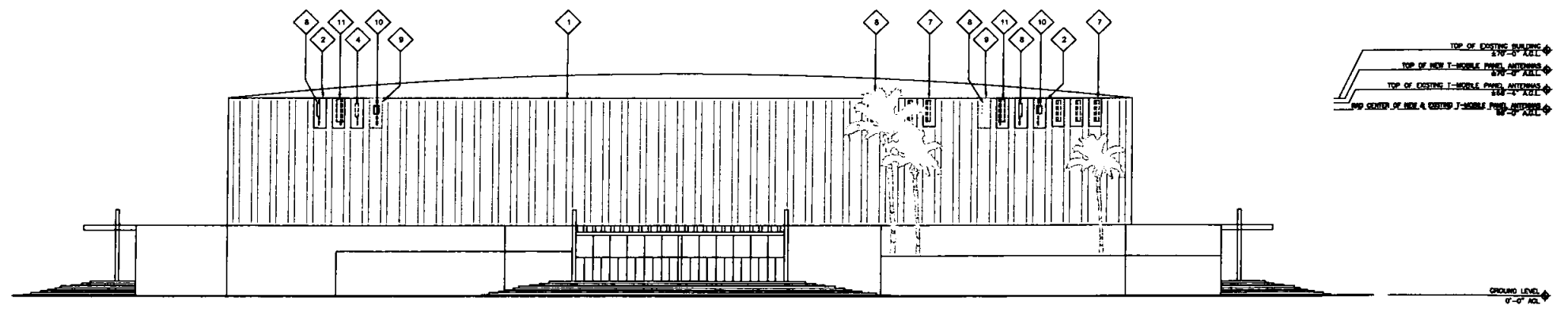
NOTE:
1. NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

KEYNOTES:



EXISTING WEST ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
0" 10' 20' 40'
1



PROPOSED WEST ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
0" 10' 20' 40'
2

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M SQUARE WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

DRAWN BY: JLV
CHECKED BY: MSA

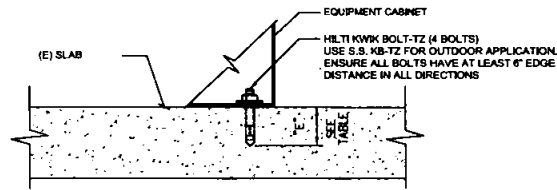
REV	DATE	DESCRIPTION
A	05/18/2020	90% CDS FOR REVIEW

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ANCHOR MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
ELEVATIONS

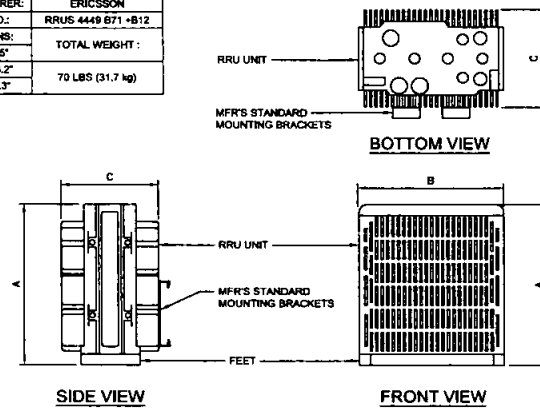
SHEET NUMBER
A-5



ANCHOR SCHEDULE (1)		
BOLT DIA.	HOLE DIA.	EMBEDMENT
1/2"	1/2"	2"

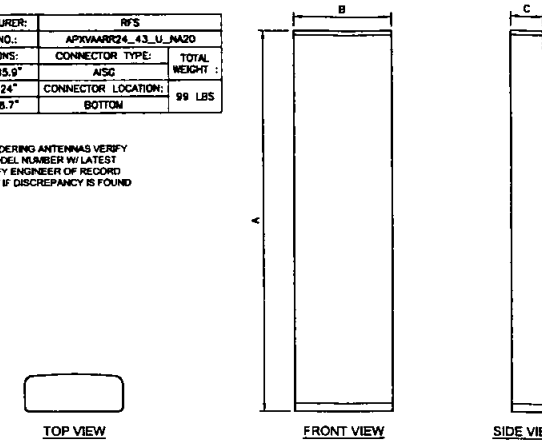
(1) INFORMATION SHOWN IN THIS TABLE IS IN ACCORDANCE WITH:
HILTI KWIK BOLT-TZ (ESR-1917)

MANUFACTURER:	ERICSSON
MODEL NO.:	RRUS 4449 B71 +B12
DIMENSIONS:	TOTAL WEIGHT :
A 15"	
B 13.2"	70 LBS (31.7 kg)
C 9.3"	



MANUFACTURER:		RFS	
MODEL NO.:		APXVAARR24_43_U_NA20	
DIMENSIONS:		CONNECTOR TYPE:	TOTAL WEIGHT:
A	95.9"	ASG	
B	24"	CONNECTOR LOCATION:	99 LBS
C	8.7"	BOTTOM	

NOTE:
PRIOR TO ORDERING ANTENNAS VERIFY
CORRECT MODEL NUMBER W/ LATEST
RFS & NOTIFY ENGINEER OF RECORD
IMMEDIATELY IF DISCREPANCY IS FOUND



CABINET ANCHORAGE

24"x36" SCALE: NTS
11"x17" SCALE: NTS

7

ERICSSON RRUS 4449 B71 + B12

24"x36" SCALE: NTS
11"x17" SCALE: NTS

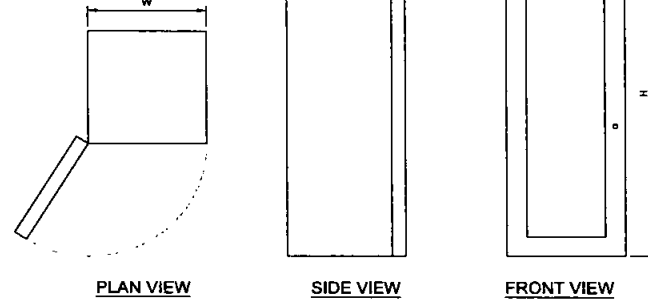
4

RFS APXVAARR24 ANTENNA

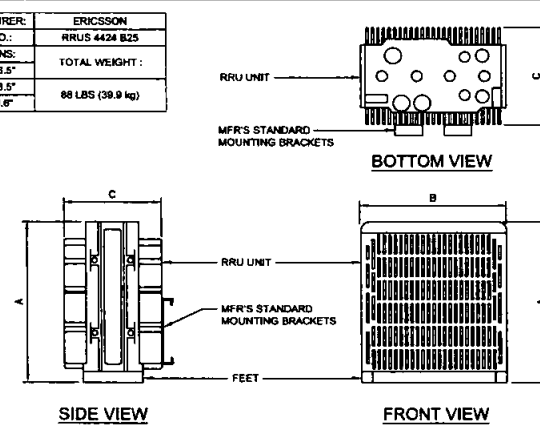
24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

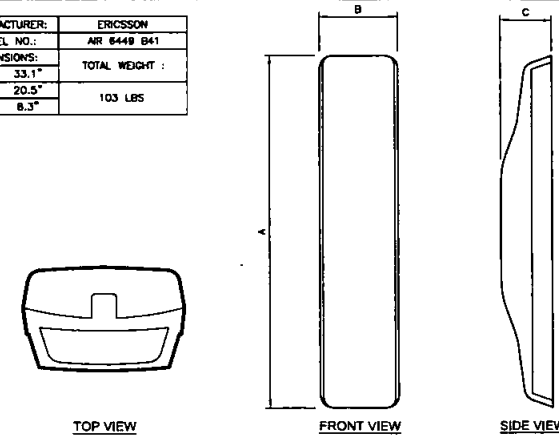
ERICSSON RBS 6160	
HEIGHT (H)	62"
WIDTH (W)	28"
DEPTH (D)	28"
WEIGHT	320 lbs.



MANUFACTURER:	ERICSSON
MODEL NO.:	RRUS 4424 B25
DIMENSIONS:	TOTAL WEIGHT :
A 16.5"	
B 13.5"	88 LBS (39.9 kg)
C 9.6"	



MANUFACTURER:	ERICSSON
MODEL NO.:	AIR 6449 B41
DIMENSIONS:	TOTAL WEIGHT :
A 33.1"	
B 20.5"	103 LBS
C 8.3"	



ERICSSON RBS 6160

24"x36" SCALE: NTS
11"x17" SCALE: NTS

8

ERICSSON RRUS 4424 B25

24"x36" SCALE: NTS
11"x17" SCALE: NTS

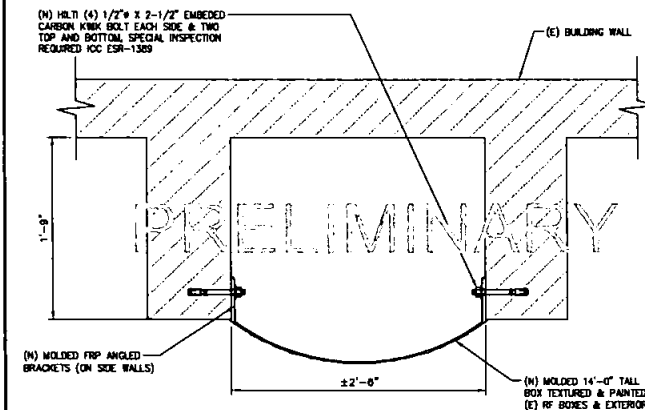
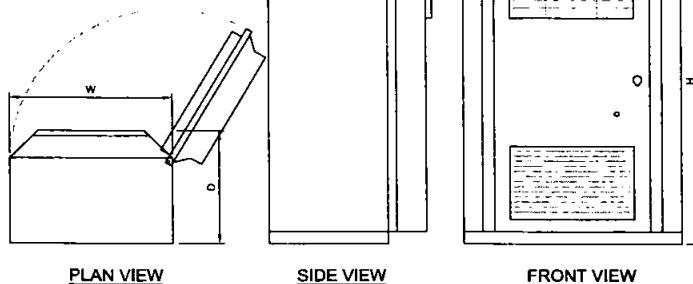
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AIR 6449 ANTENNA

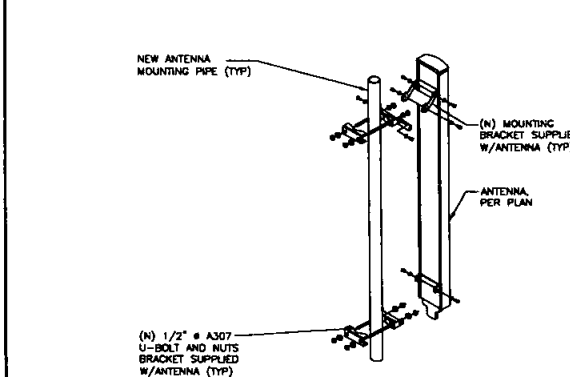
24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

BATTERY CABINET B160	
HEIGHT (H)	63"
WIDTH (W)	28"
DEPTH (D)	28"
WEIGHT	206 lbs.



(N) ANTENNA NOT SHOWN FOR CLARITY



BATTERY CABINET B160

24"x36" SCALE: NTS
11"x17" SCALE: NTS

9

FRP SCREEN BOX

24"x36" SCALE: NTS
11"x17" SCALE: NTS

6

ANTENNA MOUNTING DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

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M SQUARE
WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92073 (949) 391-8834

DRAWN BY: JJV
CHECKED BY: MM

REV	DATE	DESCRIPTION
A	05/18/2020	90% CDS FOR REVIEW

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS
THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED
PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ANCHOR MODIFICATION
SITE ID: SD08320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
DETAILS

SHEET NUMBER

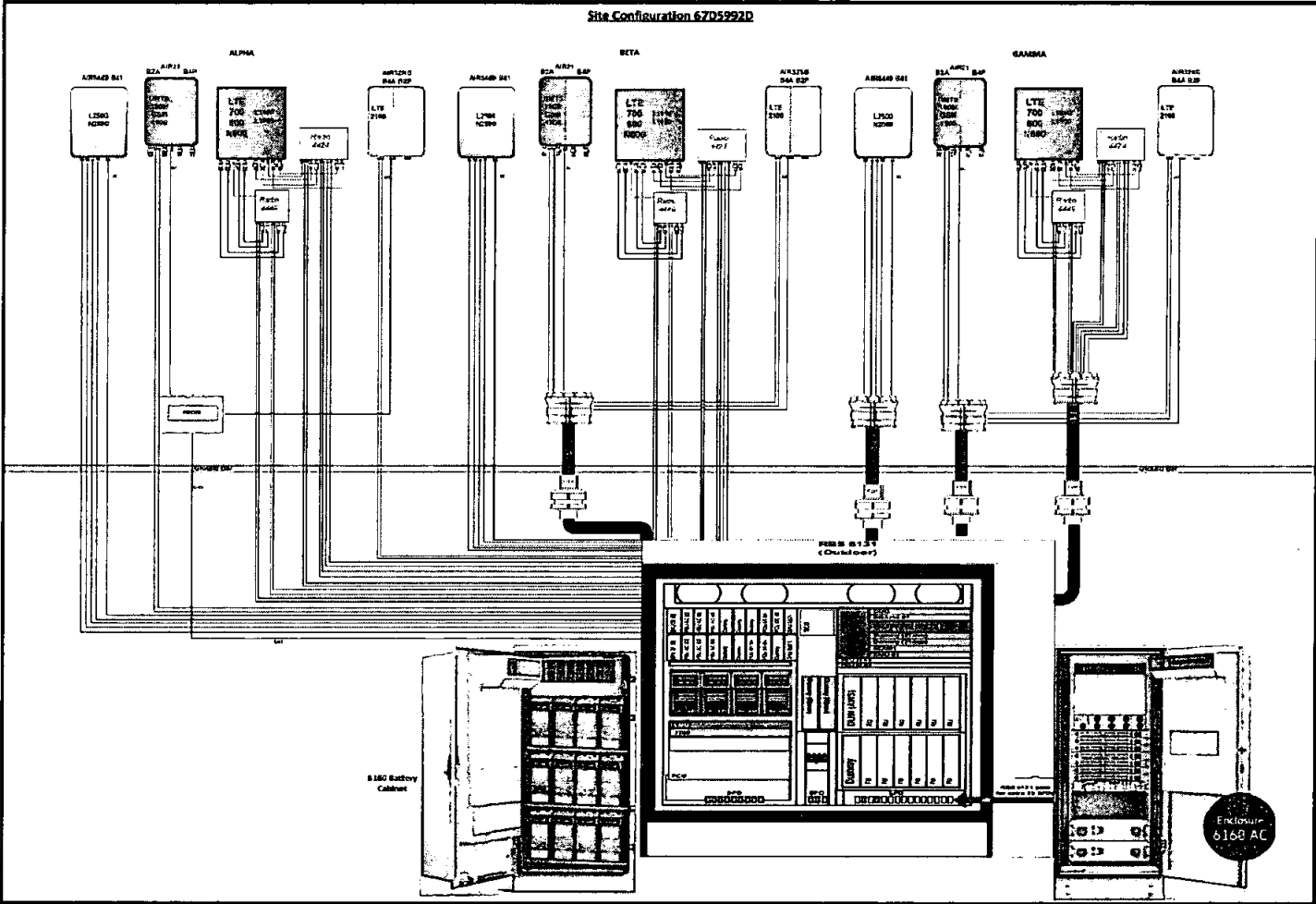
D-1



	3
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Section 3 - Proposed Template Images

SD06320A 67D5992D Anchor.jpg



Notes:

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M SQUARE WIRELESS
1887 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-4624

DRAWN BY: JLV

CHECKED BY: MM

REV	DATE	DESCRIPTION
A	05/19/2020	90% CDS FOR REVIEW

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ANCHOR MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
CABLE LINE DIAGRAM

SHEET NUMBER

RF-1



Real Estate Assets

City Consent Application

For installation / modification of Telecommunication antenna facility on City owned property

4/13/2020

Date

The City of San Diego
Real Estate Assets Department
1200 Third Avenue, Suite 1700
San Diego, California 92101

RE: Site Name: SD06320A - Pay One Arena Project # _____
Site Address: 3500 Sports Arena Blvd, San Diego (the "Property")
Agreement: Agreement dated 8/6/1971 (the "agreement") between The City of San Diego ("City") and AEG Management SD, LLC, ("Lessee" or "Permittee").

T-Mobile is seeking Consent from the City to perform the following to the above
Applicants Name/Carrier
referenced site:

- ☒ Modify, upgrade or changes to existing equipment or Site as describe in the attached plans / photos.
- ☐ Installation of a New Wireless Communication Facility on City owned property.
- ☐ Apply for new Permit/New Agreement on existing facility - **NO** modifications or changes to Existing equipment or site.

Describe proposed project below:

Remove six (6) existing total antennas
Remove three (3) existing RRUs
Remove equipment (DUS41Unit & XMU Unit) within existing cabinets
Install six (6) new antennas
Install three (3) new RRUs
Install new equipment (6630 Unit) within existing cabinets

Pursuant to Improvements and Alterations, section of the above referenced agreement, "Lessee / Permittee shall not construct any improvements, structures or installations of the Premises or make any alterations to the Premises (with the exception of equipment replacement or repairs) without City's prior written approval."

In order to comply with such requirements, T-Mobile would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Christopher Ward, agent for T-Mobile

Applicant Signature: Christopher Ward
Digitally signed by Christopher Ward
DN: cn=Christopher Ward, o=Smartlink LLC, ou,
email=christopher.ward@smartlink.com, o=US
Date: 2020.04.13 13:22:57 -0700

☐ A one-time, **non-refundable Processing Fee** (\$4,920 for long term agreements - \$980 for Short term or ROE Permits) payable to City Treasures, MUST be paid at the time of application. This fee applies even if the agreement is never executed.

AEG Management SD, LLC Department has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed items listed herein,

5/4/2020

Date

JANET KELLEY

Print Name & Title

DIRECTOR OF FINANCE

janet kelley

Signature

City of San Diego, acknowledgement and consent for 3500 Sports Arena Blvd

Site Location

5/5/20

Date

Cybele Thompson, Director, READ

Print Name & Title

[Signature]

Signature

For READ ONLY

☐
☐
☐

Approved and Stamped plans received and attached
Scan as Amendment to Agreement when executed
Processing fee received



Real Estate
Assets



M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110

SITE INFORMATION

PROPERTY OWNER: ARENA GROUP 2000 LLC
CONTACT: RONALD HAHN
PH: (619) 224-4825

APPLICANT: T-MOBILE
ADDRESS:

LAT/LONG TYPE: NAD-83
LATITUDE: 32° 45' 20.7" N
LONGITUDE: 117° 12' 46.0" W
ZONING JURISDICTION: CITY OF SAN DIEGO
ZONING CLASSIFICATION: CD-3-4; RM-2-S
CURRENT USE: UNMANNED TELECOMMUNICATIONS FACILITY
ASSESSOR'S PARCEL NO.: 441-560-04
PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY
TYPE OF CONSTRUCTION: 1-A (SPRINKLERED)
OCCUPANCY GROUP: A-6

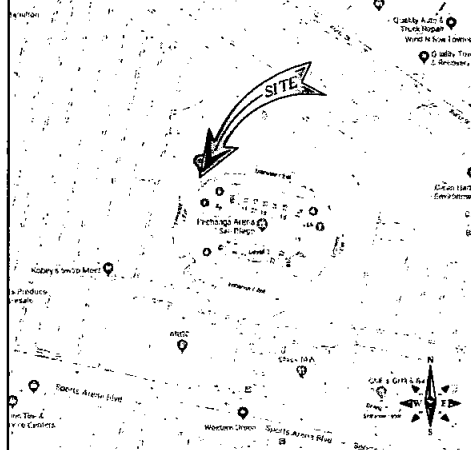
PROJECT TEAM

PROJECT MANAGER:
SMARTLINK
18301 VON KARMAN AVE
IRVINE, CA 92612
CONTACT: SAMUEL GUERINO
PHONE: (760) 612-8948

ENGINEER:
M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE, CA 92673
CONTACT: MICHAEL MONTELO
PHONE: (619) 997-4012
EMAIL: mmonelo@msquaredwireless.com

SITE ACQUISITION:
SMARTLINK
10506 VISTA SORRENTO PARKWAY
SUITE 201B
SAN DIEGO, CA 92121
CONTACT: PEDRO ABE
PHONE: (619) 334-2126
EMAIL: pedro.abe@t-mobile.com

VICINITY MAP



DRIVING DIRECTIONS

DIRECTIONS FROM NEAREST INTERNATIONAL AIRPORT:

1. HEAD EAST ON N. HARBOR DR. TOWARD MCCANN RD.
2. MAKE A U-TURN AT MCCANN RD.
3. TURN RIGHT ONTO LANSING RD.
4. TURN RIGHT ONTO ROSECRANS ST.
5. TURN LEFT ONTO SPORTS ARENA BLVD.
6. TURN RIGHT AT KEMPER ST.
7. TURN RIGHT.
8. TURN LEFT.
9. TURN RIGHT.
10. YOUR DESTINATION WILL BE ON THE RIGHT.

PROJECT DESCRIPTION

T-MOBILE PROPOSES TO MODIFY AN EXISTING WIRELESS INSTALLATION. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- REMOVE (3) EXISTING T-MOBILE AIR 32 BAA, B2P PANEL ANTENNAS
- REMOVE (3) EXISTING T-MOBILE LQ0451505-41M PANEL ANTENNAS
- REMOVE (3) EXISTING T-MOBILE RRUS-11 512 @ ANTENNA LEVEL
- REMOVE (2) EXISTING T-MOBILE DUS1 UNITS IN (E) EQUIPMENT CABINET @ GROUND EQUIPMENT LEVEL
- REMOVE (1) EXISTING T-MOBILE 20U UNIT IN (E) EQUIPMENT CABINET @ GROUND EQUIPMENT LEVEL
- INSTALL (3) NEW T-MOBILE AIR 32B B2P PANEL ANTENNAS
- INSTALL (3) NEW T-MOBILE RRUS 4448 871/912 @ ANTENNA LEVEL
- INSTALL (2) NEW T-MOBILE 6030 UNIT IN (E) 310H CABINET @ GROUND EQUIPMENT LEVEL
- INSTALL (12) NEW T-MOBILE LOOSE DC CABLES TO RRUS 4448 & CABINET (IF NEEDED)
- INSTALL (18) NEW T-MOBILE LOOSE FIBER CABLES TO RRUS 4448 & CABINET (IF NEEDED)

* UPGRADE POWER IN THE CABINET W/ (8) PSU ACSS.

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2018 CALIFORNIA BUILDING CODE. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.

ENGINEERING

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- 2018 BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2018 MECHANICAL CODE
- 2018 FIRE CODE
- 2018 PLUMBING CODE
- 2018 ELECTRICAL CODE
- LOCAL BUILDING CODE

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CONSTRUCTION DRAWING

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

DRAWING INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
GN-1	GENERAL NOTES
A-1	SITE PLAN & ENLARGED ROOF PLAN
A-2	EQUIPMENT LAYOUT
A-3	ANTENNA LAYOUT
A-4	ELEVATIONS
A-5	ELEVATIONS
A-6	ELEVATIONS
A-7	ELEVATIONS
D-1	DETAILS
Gr-1	GROUNDING DETAILS
RF-1	CABLE LINE DIAGRAM

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.

T-MOBILE RF ENGINEER: _____ DATE: _____
T-MOBILE OPERATIONS: _____ DATE: _____
SITE ACQUISITION: _____ DATE: _____
CONSTRUCTION MANAGER: _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____
ZONING: _____ DATE: _____
PROJECT MANAGER: _____ DATE: _____

T-Mobile

smartlink

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (PH) 997-4012

DRAWN BY: DF
CHECKED BY: MM

REV	DATE	DESCRIPTION
0	04/08/2020	100% CDs FOR SUBMITTAL
B	07/29/2020	100% CDs FOR REVIEW
A	05/28/2018	90% CDs FOR REVIEW

DATE SIGNED: 4/9/2020

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL CONSTRUCTION NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR - GENERAL CONTRACTOR
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)
OWNER - T-MOBILE
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND T-MOBILE PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS, GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND COORDINATING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL T-MOBILE, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (UNLESS SPECIFICALLY STATED OTHERWISE).
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE BY THE ARCHITECT/ENGINEER PRIOR TO THE START OF CONSTRUCTION.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSAL OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY (E) CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO THE BEGINNING OF CONSTRUCTION.
15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE SUBCONTRACTOR SHALL PROTECT (E) IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. IF DAMAGED PART SHALL BE REPAIR/REPLACE TO THE SATISFACTION OF THE CONSTRUCTION MANAGER. THE OWNER.
17. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDUM AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A, 10-B AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL (E) ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING NEARS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING & EXCAVATION.
23. ALL (E) INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE (E) SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 90 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL, OR OTHER MATERIAL, PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY T-MOBILE TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION T-MOBILE GROUNDING STANDARD TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GROUNDING WIRELESS SITES AND TECHNICAL SPECIFICATION FOR FACILITY GROUNDING. IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
41. NO NOISE, SMOKE, DUST, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR).
42. NO ADDITIONAL PARKING TO BE PROPOSED. (E) ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
43. NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER AS SOON AS POSSIBLE AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK UNTIL THE CONSTRUCTION MANAGER HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL (E) CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
A. IAC - INTERNATIONAL CODES OF ELECTRICAL LABORERS
B. NEC - NATIONAL ELECTRICAL CODE
C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
E. SBC - STANDARD BUILDING CODE
4. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
5. (E) SERVICES: CONTRACTOR SHALL NOT INTERRUPT (E) SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6. CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINS OR ORDERING EQUIPMENT.
7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
8. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS CONFIRMATION, ETC., ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER PRIOR TO BEGINNING ANY WORK.
9. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
10. OUTLET BOXES SHALL BE PRE-RESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED NUTS IN WET/CAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
11. RESIST THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
12. WIRING SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS SET FORTH BY T-MOBILE.
13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
19. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACT, REFER TO NOTES AND REQUIREMENTS EXCAVATION AND BACKFILLING.
20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE (N) AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE CONSTRUCTION MANAGER UPON FINAL ACCEPTANCE.
23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-BREAK AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
25. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
26. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA 7C2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RIGID CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH BRITZ ZINC OR 100% GALV.
27. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
28. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 600 VOLT, COLOR CODED, USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG, USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
30. SERVICE: 240V/20V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
31. TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
33. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOM".
34. ALL BOLTS SHALL BE STAINLESS STEEL.

GROUNDING NOTES:

1. COMPRESSION CONNECTIONS (E) 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR, ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTIC/EMC WELD.
2. EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION (E) "A", "N", "Y" WITH 1" HIGH LETTERS.
3. ALL HARDWARE 1/4" STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
4. FOR GROUNDING BOND TO STEEL, FIRST INSERT A CADMIUM PLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
6. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
7. WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN (E) TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
8. ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

SITE WORK & DRAINAGE

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1.1. REFERENCES:

1. DOT (STATE DEPARTMENT OF TRANSPORTATION) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
2. ISTA (INTERNATIONAL SOCIETY FOR TESTING AND MATERIALS).
3. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION).

1.2. INSPECTION AND TESTING:

1. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
2. ALL WORK SHALL BE AS WELL AS WELL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3. SITE MAINTENANCE AND PROTECTION:

1. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
2. AVOID DAMAGE TO THE SITE AND TO (E) FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT DAMAGE TO FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
3. KEEP SITE FREE OF ALL PONDING WATER.
4. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
5. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
6. (E) UTILITIES: DO NOT INTERRUPT (E) UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
7. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
6. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
7. SEEDING AND MULCHING AND/OR SOODING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
8. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS BUILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
9. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUANTITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRAGILE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

T-Mobile

smartlink

M SQUARE WIRELESS
1157 CALLE AVANZADO
SAN CLEMENTE CA 95061 (408) 991-0254

DRAWN BY:

DF

CHECKED BY:

MM

REV	DATE	DESCRIPTION
0	04/09/2020	100% CD'S FOR SUBMITTAL
1	01/28/2020	100% CD'S FOR REVIEW
2	05/28/2018	90% CD'S FOR REVIEW

DATE SIGNED: 4/9/2020

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

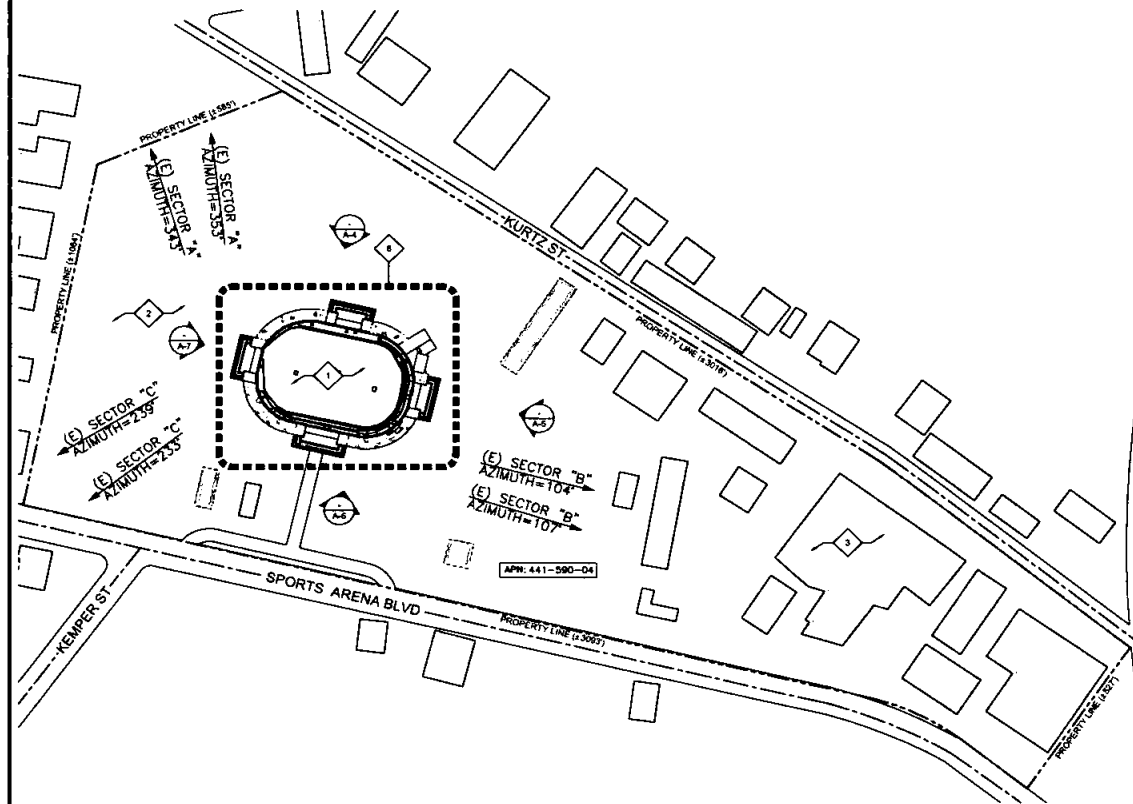
M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

- 1 (E) BUILDING ROOFTOP (TYP)
- 2 (E) PARKING LOT (TYP)
- 3 (E) BUILDING (TYP)
- 4 (E) TREE (TYP)
- 5 (E) PANEL ANTENNA BY OTHERS (TYP)
- 6 FOR ENLARGED ROOF PLAN SEE: 2
- 7 (E) & (N) T-MOBILE EQUIPMENT AREA (A-2)
- 8 (E) & (N) T-MOBILE ANTENNA AREA (A-3)

KEYNOTES:



NOTES:

1. THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION.
3. THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

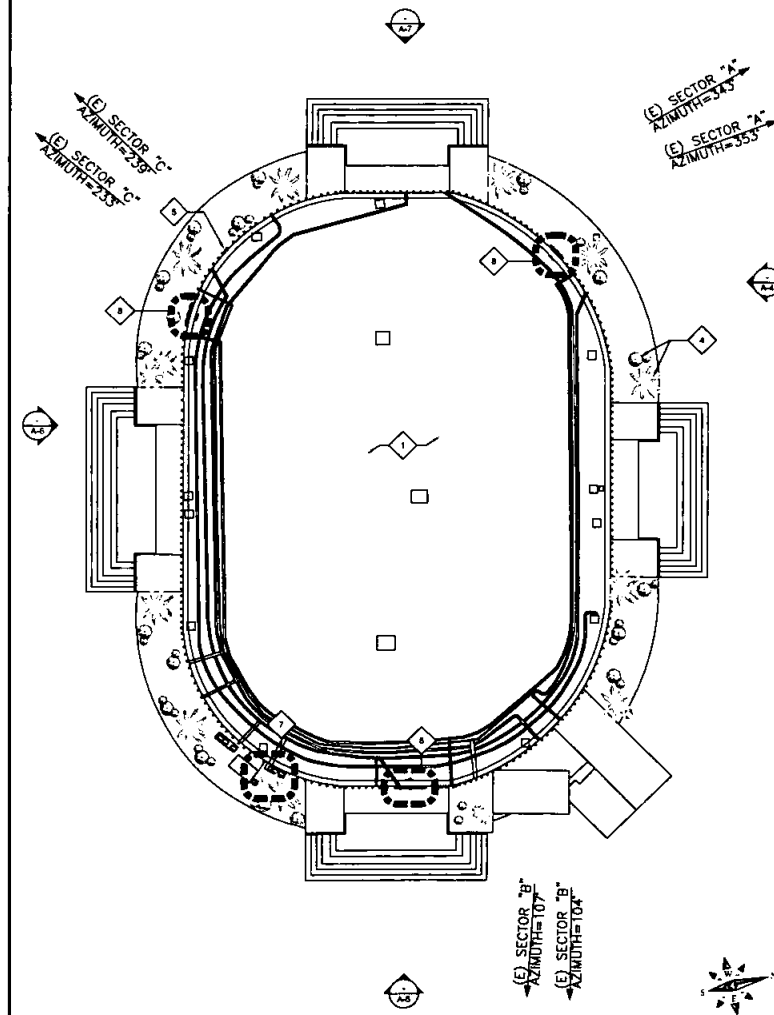
DISCLAIMER:

THIS SET OF DRAWINGS WAS PREPARED UTILIZING INFORMATION OBTAINED FROM PUBLIC DOCUMENTS MADE AVAILABLE ON JURISDICTION WEBSITE. M-SQUARED WIRELESS CANNOT GUARANTEE THE ACCURACY OF THE DATA AND INFORMATION DEPICTED AND HEREBY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE TRUTH, VALIDITY, INVALIDITY, ACCURACY, INACCURACY OF ANY SAID DATA AND INFORMATION. THE PARCEL LINES ON MAPS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A SURVEY PRODUCT. USER ACCEPTS RESPONSIBILITY FOR THE UNAUTHORIZED USE OR TRANSMISSION OF ANY SUCH DATA OR INFORMATION IN ITS ACTUAL OR ALTERED FORM.

SITE PLAN

24"x36" SCALE: 1" = 200'-0" 0" 100' 200' 400' 11"x17" SCALE: 1" = 400'-0"

1



24"x36" SCALE: 1" = 30'-0" 0" 25' 50' 100' 11"x17" SCALE: 1" = 100'-0"

2

ENLARGED ROOF PLAN

T-Mobile

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M SQUARED WIRELESS
1587 CALLE AVANZADO
SAN CLEMENTE CA 92679 (949) 891-8824

DRAWN BY: DF
CHECKED BY: NMA

REV	DATE	DESCRIPTION
0	04/06/2020	100% CDS FOR SUBMITTAL
B	01/28/2020	100% CDS FOR REVIEW
A	02/26/2019	80% CDS FOR REVIEW



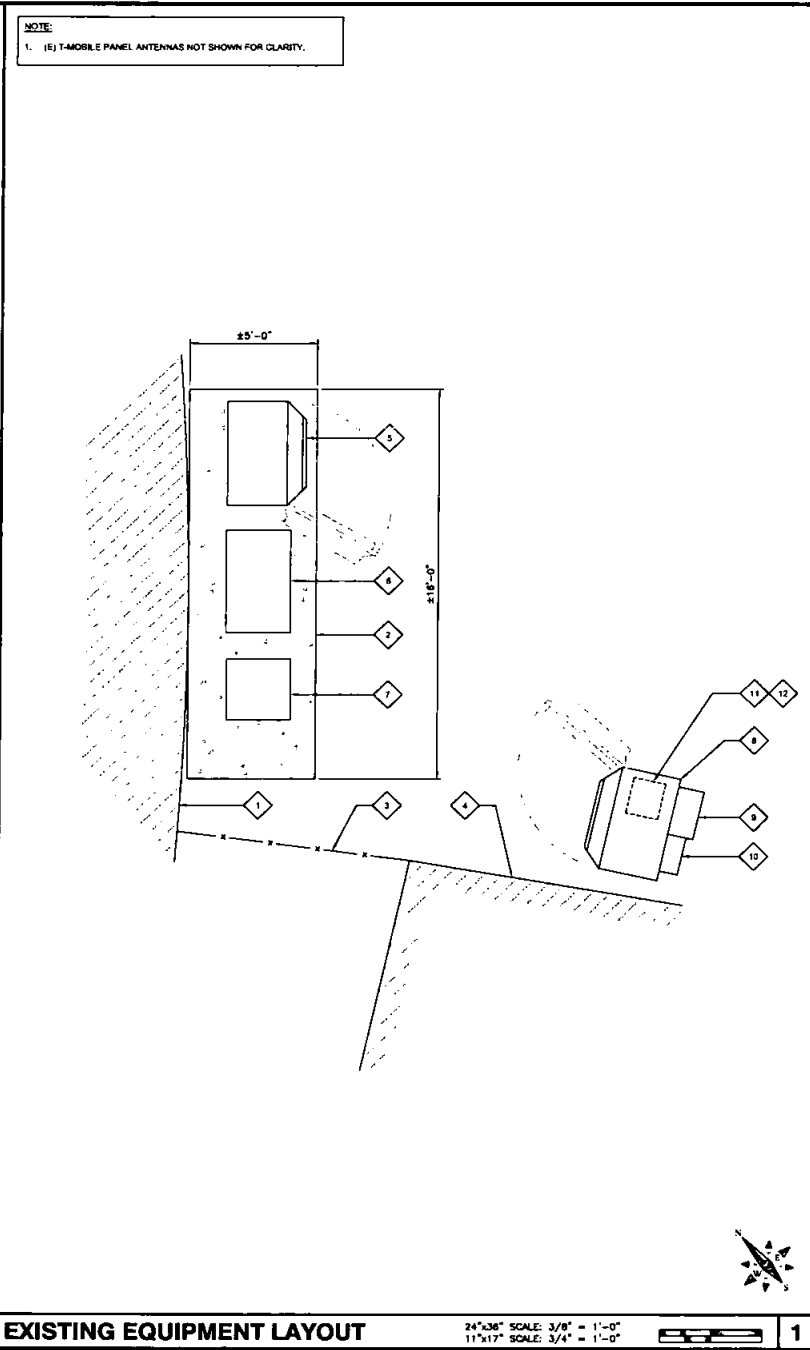
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
**SITE PLAN AND
ENLARGED ROOF PLAN**

SHEET NUMBER
A-1

- 1 (E) BUILDING (TYP)
- 2 (E) T-MOBILE CONCRETE EQUIPMENT PAD (TYP)
- 3 (E) CHAIN LINK FENCE (TYP)
- 4 (E) EQUIPMENT SHELTER BY OTHERS (TYP)
- 5 (E) T-MOBILE 210S CABINET (TYP)
- 6 (E) T-MOBILE SPARE BASE (TYP)
- 7 (E) T-MOBILE TRANSFORMER (TYP)
- 8 (E) T-MOBILE 310S CABINET (TYP)
- 9 (E) T-MOBILE FIBER BOX (TYP)
- 10 (E) T-MOBILE TELCO INTERFACE BOX (TYP)
- 11 (E) T-MOBILE DUS41 UNITS TO BE REMOVED FROM (E) 310S CABINET: (2) TOTAL
- 12 (E) T-MOBILE XMU UNIT TO BE REMOVED FROM (E) 310S CABINET: (2) TOTAL
- 13 (M) T-MOBILE 6630 UNIT INSTALLED INSIDE (E) 310S CABINET: (2) TOTAL



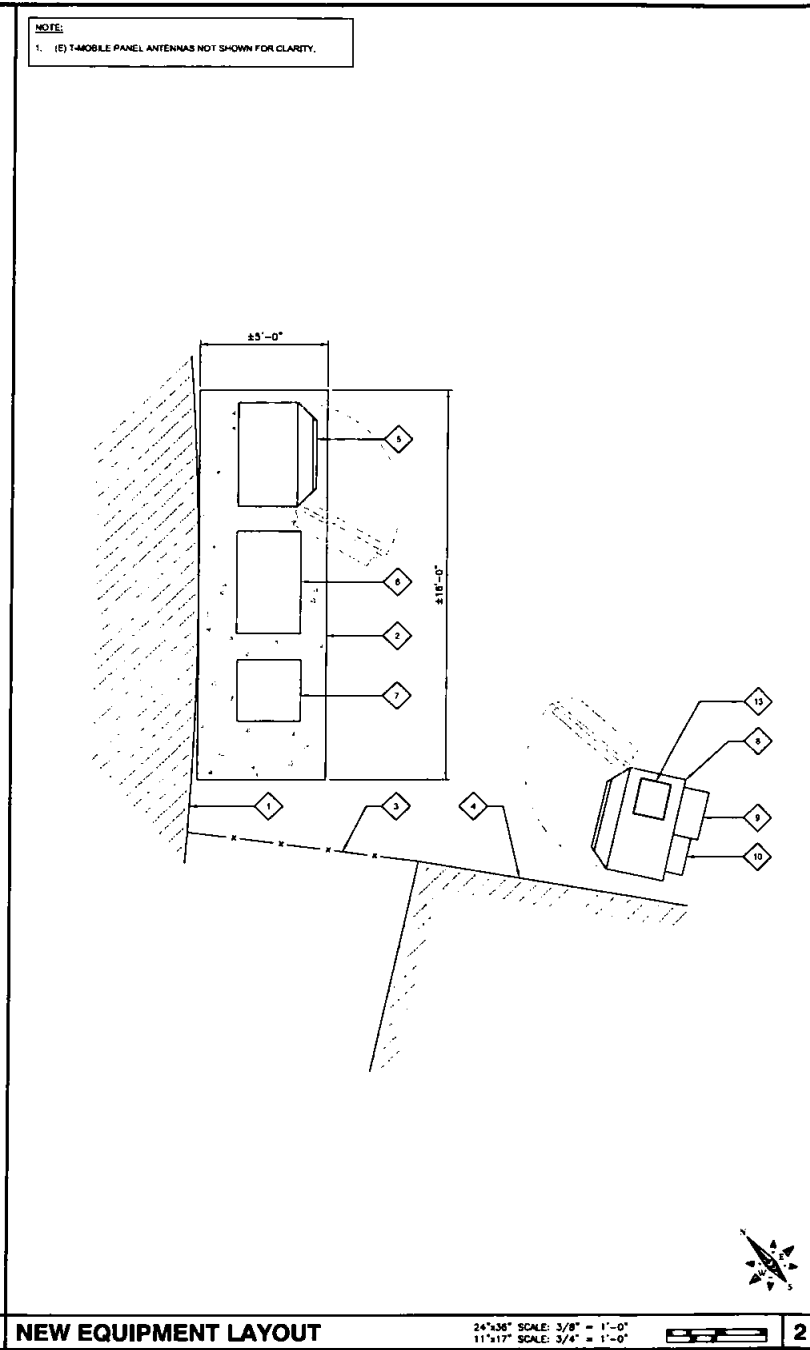
KEYNOTES:

EXISTING EQUIPMENT LAYOUT

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0"

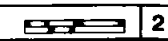


1



NEW EQUIPMENT LAYOUT

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/4" = 1'-0"



2

M SQUARED
WIRELESS

1887 CALLE AVANZADO
SAN CLEMENTE CA 95070 (PH) 831-8824

DRAWN BY: DF

CHECKED BY: MM

REV	DATE	DESCRIPTION
0	34/09/2020	100% CD'S FOR SUBMITTAL
B	31/09/2020	100% CD'S FOR REVIEW
A	05/08/2019	90% CD'S FOR REVIEW

DATE SIGNED: 4/9/2020

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M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE

EQUIPMENT LAYOUT

SHEET NUMBER

A-2

FINAL OPTIMAL ANTENNA & TRANSMISSION CABLE REQUIREMENTS (VERIFY WITH CURRENT RFDS)				ANTENNA MAKE AND MODEL		RAD CENTER		AZIMUTH		TRANSMISSION LINE	
ANTENNA POSITION	TECHNOLOGY	ANTENNA COUNT		EXISTING	FINAL	EXISTING	FINAL	EXISTING	FINAL	CABLE LENGTH	FEEDER TYPE
SECTOR A	1	U1900, G1900	1	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	66'-0"	66'-0"	353°	353°	800'	(E) HCS
	2	L800, L700, L1900	1	(E) ERICSSON AIR22 KRC118044-1_B2A_B4P (DUAL)	(N) RFS APX10000-43-U-NA20 (DUAL)	66'-0"	66'-0"	353°	343°	800'	(E) HCS
	3	L2100	1	(E) ANDREW LNX-6513-A1M (DUAL)	(N) ERICSSON AIR3248 B66 (MIMO)	66'-0"	66'-0"	343°	353°	800'	(E) HCS
	4	-	-	-	-	-	-	-	-	-	-
SECTOR B	1	U1900, G1900	1	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	66'-0"	66'-0"	104°	104°	200'	(E) HCS
	2	L800, L700, L1900	1	(E) ERICSSON AIR22 KRC118044-1_B2A_B4P (DUAL)	(N) RFS APX10000-43-U-NA20 (DUAL)	66'-0"	66'-0"	104°	107°	200'	(E) HCS
	3	L2100	1	(E) ANDREW LNX-6513-A1M (DUAL)	(N) ERICSSON AIR3248 B66 (MIMO)	66'-0"	66'-0"	107°	104°	200'	(E) HCS
	4	-	-	-	-	-	-	-	-	-	-
SECTOR C	1	U1900, G1900	1	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	66'-0"	66'-0"	233°	233°	300'	(E) HCS
	2	L800, L700, L1900	1	(E) ERICSSON AIR22 KRC118044-1_B2A_B4P (DUAL)	(N) RFS APX10000-43-U-NA20 (DUAL)	66'-0"	66'-0"	233°	239°	300'	(E) HCS
	3	L2100	1	(E) ANDREW LNX-6513-A1M (DUAL)	(N) ERICSSON AIR3248 B66 (MIMO)	66'-0"	66'-0"	239°	233°	300'	(E) HCS
	4	-	-	-	-	-	-	-	-	-	-

REMOTE RADIO UNITS		DC CABLES			
ANTENNA POSITION	RRUS MAKE AND MODEL	RRUS COUNT	LENGTH	AWG	
SECTOR A	1	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	2	800'	-
	2	(E) ERICSSON AIR22 KRC118044-1_B2A_B4P (DUAL)	2	200'	-
	3	(E) ANDREW LNX-6513-A1M (DUAL)	2	800'	-
	4	-	-	-	-
SECTOR B	1	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	2	200'	-
	2	(E) ERICSSON AIR22 KRC118044-1_B2A_B4P (DUAL)	2	200'	-
	3	(E) ANDREW LNX-6513-A1M (DUAL)	2	200'	-
	4	-	-	-	-
SECTOR C	1	(E) ERICSSON AIR21 KRC118023-1_B2A_B4P (DUAL)	2	300'	-
	2	(E) ERICSSON AIR22 KRC118044-1_B2A_B4P (DUAL)	2	300'	-
	3	(E) ANDREW LNX-6513-A1M (DUAL)	2	300'	-
	4	-	-	-	-

TOWER MOUNTED AMPLIFIER		DC CABLES			
ANTENNA POSITION	TMA MAKE AND MODEL	TMA COUNT	LENGTH	AWG	
SECTOR A	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
SECTOR B	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
SECTOR C	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-

NOTES TO CONTRACTOR:

1. CONTRACTOR IS TO REFER TO T-MOBILE'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.

2. CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.

3. CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.

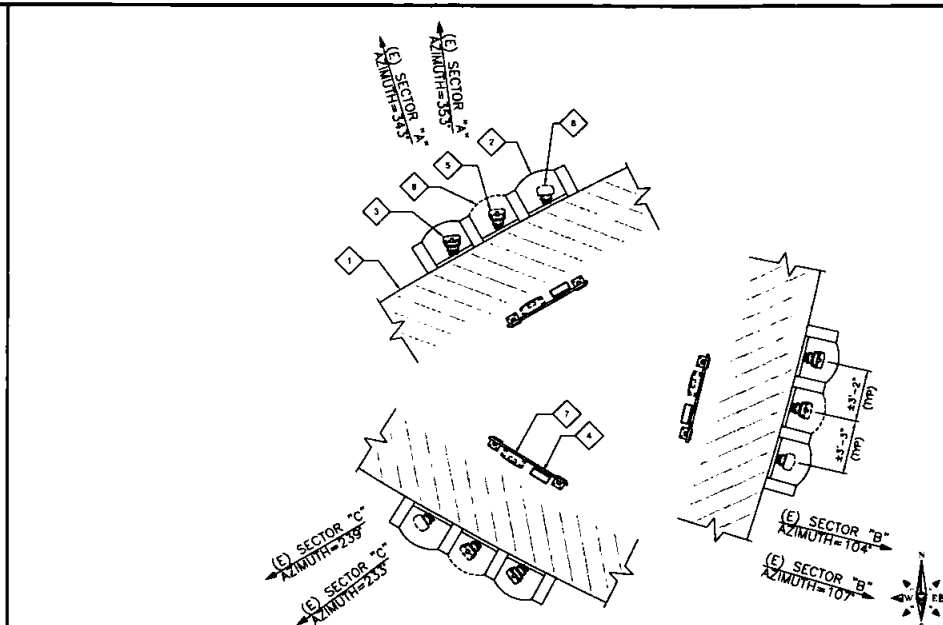
NOTE:

1. (E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.

2. NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

NOTE:

PRIOR TO ORDERING ANTENNAS VERIFY CORRECT MODEL NUMBER WITH LATEST RFDS AND NOTIFY ENGINEER OF RECORD IMMEDIATELY IF DISCREPANCY IS FOUND

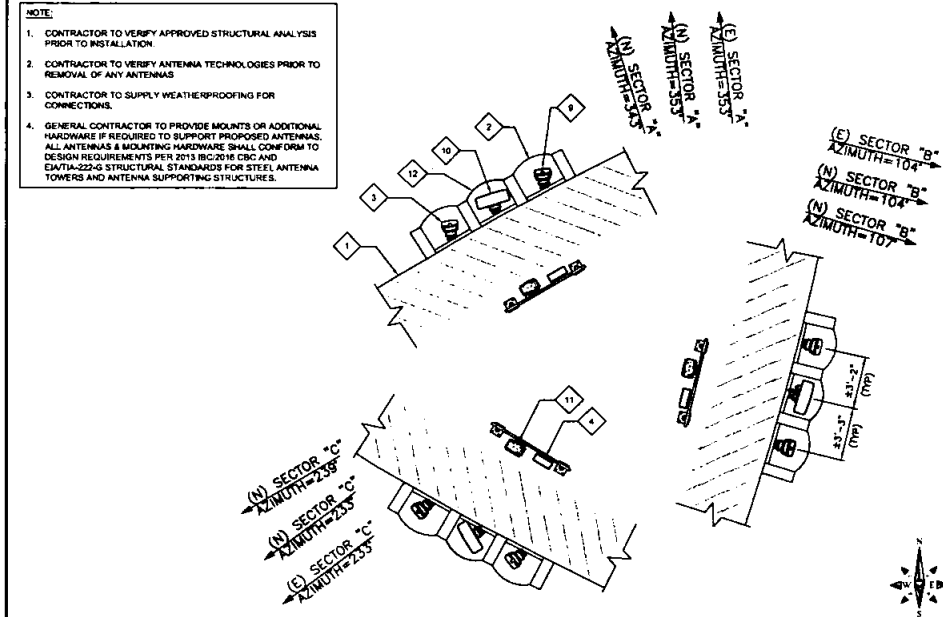


ANTENNA & EQUIPMENT SCHEDULE

- (E) BUILDING (TYP)
- (E) T-MOBILE FRP SCREEN TO REMAIN: (1) PER SECTOR, (3) TOTAL (TYP)
- (E) T-MOBILE AIR 21 KRC118023-1_B2A_B4P PANEL ANTENNA TO REMAIN: (1) PER SECTOR, (3) TOTAL (TYP)
- (E) T-MOBILE RRUS-32 B2 TO REMAIN: (1) PER SECTOR, (3) TOTAL (TYP)
- (E) T-MOBILE AIR 32 B4A_B2P PANEL ANTENNA TO BE REMOVED: (1) PER SECTOR, (3) TOTAL (TYP)
- (E) T-MOBILE LNX-651305-A1M PANEL ANTENNA TO BE REMOVED: (1) PER SECTOR, (3) TOTAL (TYP)
- (E) T-MOBILE RRUS-11 B12 TO BE REMOVED: (1) PER SECTOR, (3) TOTAL (TYP)
- (E) T-MOBILE FRP SCREEN TO BE REMOVED: (1) PER SECTOR, (3) TOTAL (TYP)
- (N) T-MOBILE AIR 3248 B66 PANEL ANTENNAS MOUNTED ON (E) PIPE MOUNT: (1) PER SECTOR, (3) TOTAL (TYP)
- (N) T-MOBILE APX10000-43-U-NA20 PANEL ANTENNAS MOUNTED ON (E) PIPE MOUNT: (1) PER SECTOR, (3) TOTAL (TYP)
- (N) T-MOBILE RRUS 4448 B71/B12 MOUNTED ON (E) H-FRAME: (1) PER SECTOR, (3) TOTAL (TYP)
- (N) T-MOBILE 14'-0" TALL FRP SCREEN TO MATCH (E) FRP SCREEN: (1) PER SECTOR, (3) TOTAL (TYP)

KEYNOTES:

EXISTING ANTENNA PLAN



NEW ANTENNA PLAN

T-Mobile

smartlink

M SQUARE WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 95072 (949) 871-8884

DRAWN BY: DF
CHECKED BY: MM

REV	DATE	DESCRIPTION
0	04/05/2020	100% CD'S FOR SUBMITTAL
1	01/28/2020	100% CD'S FOR REVIEW
2	05/28/2019	80% CD'S FOR REVIEW

DATE SIGNED: 4/9/2020

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M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
ANTENNA LAYOUT

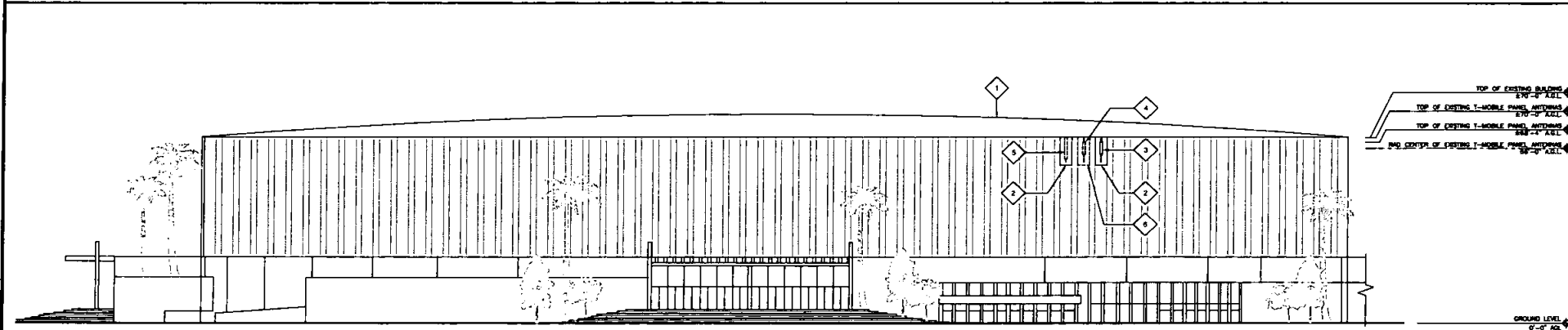
SHEET NUMBER
A-3

- 1 (E) BUILDING (TYP)
- 2 (E) T-MOBILE FRP SCREEN TO REMAIN (TYP)
- 3 (E) T-MOBILE AIR 21 KRC118023-1_B2A_B4P PANEL ANTENNA TO REMAIN:
(1) PER SECTOR, (3) TOTAL (TYP)
- 4 (E) T-MOBILE AIR 32 B4A_B2P PANEL ANTENNA TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 5 (E) T-MOBILE LNK-851505-A1M PANEL ANTENNA TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 6 (E) T-MOBILE FRP SCREEN TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 7 (H) T-MOBILE AIR 3248 B56 PANEL ANTENNAS MOUNTED ON (3) PIPE MOUNT: (1) PER SECTOR, (3) TOTAL (TYP) 1 5 0-1 0-1
- 8 (H) T-MOBILE APOHARR24_43-U-HA20 PANEL ANTENNAS MOUNTED ON (3) PIPE MOUNT: (1) PER SECTOR, (3) TOTAL (TYP) 2 5 0-1 0-1
- 9 (H) T-MOBILE 14'-0" TALL FRP SCREEN TO MATCH 7 0-1
- 10 (E) FRP SCREEN: (1) PER SECTOR, (3) TOTAL (TYP)

NOTE:

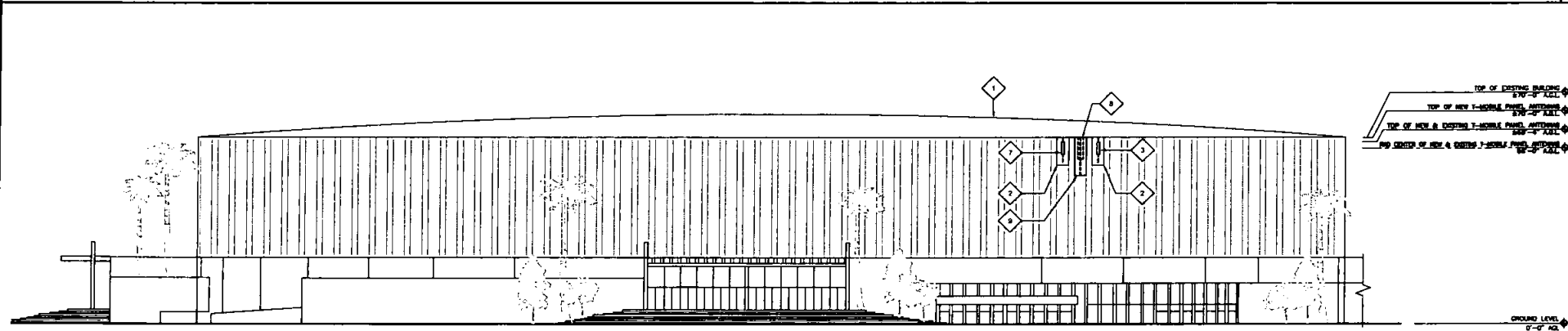
1. NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

KEYNOTES:



EXISTING NORTH ELEVATION

24"x36" SCALE: 1" = 20'-0" 0" 10' 20' 40'
11"x17" SCALE: 1" = 40'-0"



PROPOSED NORTH ELEVATION

24"x36" SCALE: 1" = 20'-0" 0" 10' 20' 40'
11"x17" SCALE: 1" = 40'-0"

T-Mobile

smartlink

M SQUARE
WIRELESS
1557 CALLE AVANZADO
SAN CLEMENTE CA 92675 (949) 891-8834

DRAWN BY: DF
CHECKED BY: AM

REV	DATE	DESCRIPTION
0	04/08/2020	100% CD'S FOR SUBMITTAL
B	01/28/2020	100% CD'S FOR REVIEW
A	05/28/2019	90% CD'S FOR REVIEW



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M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
ELEVATIONS

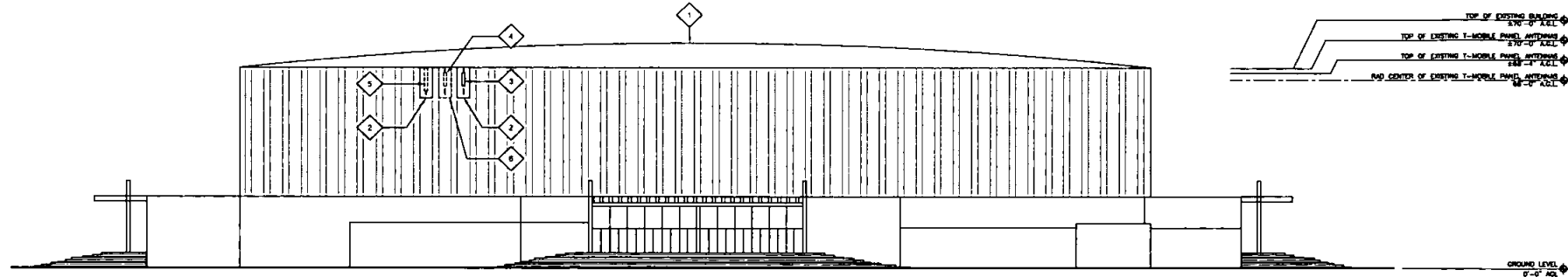
SHEET NUMBER
A-4

- 1 (C) BUILDING (TYP)
- 2 (E) T-MOBILE FRP SCREEN TO REMAIN (TYP)
- 3 (E) T-MOBILE AIR 21 KRC118023-1-B2A-B4P PANEL ANTENNA TO REMAIN:
(1) PER SECTOR, (3) TOTAL (TYP)
- 4 (E) T-MOBILE AIR 32 B4A-B2P PANEL ANTENNA TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 5 (E) T-MOBILE LMX-651505-A1M PANEL ANTENNA TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 6 (E) T-MOBILE FRP SCREEN TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 7 (N) T-MOBILE AIR 3248 B6B PANEL ANTENNAS MOUNTED
ON (E) PIPE MOUNT; (1) PER SECTOR, (3) TOTAL (TYP)
- 8 (N) T-MOBILE AIRXWARR24-A3-U-NA20 PANEL ANTENNAS MOUNTED
ON (E) PIPE MOUNT; (1) PER SECTOR, (3) TOTAL (TYP)
- 9 (N) T-MOBILE 14'-0" TALL FRP SCREEN TO MATCH
(C) FRP SCREEN; (1) PER SECTOR, (3) TOTAL (TYP)

NOTE:

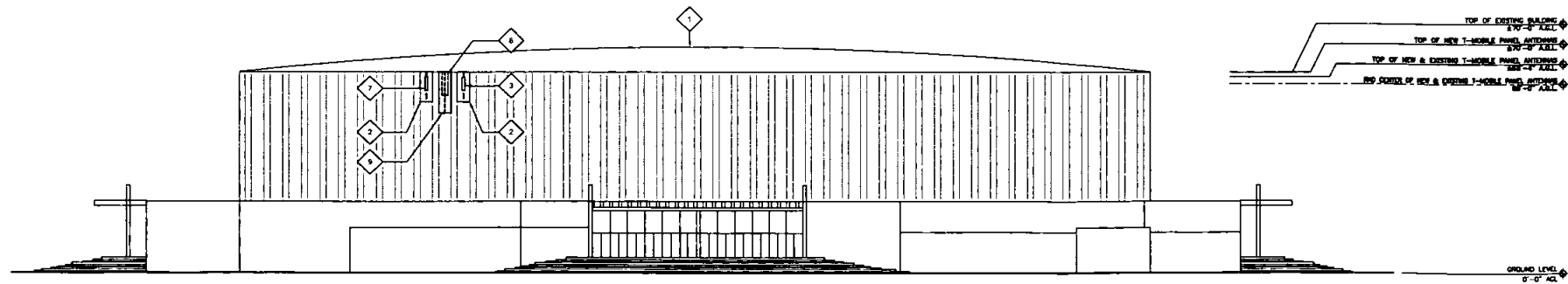
1. NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

KEYNOTES:



EXISTING EAST ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"



PROPOSED EAST ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"

T-Mobile

smartlink

M SQUARE WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 95073 (408) 391-4824

DRAWN BY: DF
CHECKED BY: MM

REV	DATE	DESCRIPTION
5	04/09/2020	100% CD'S FOR SUBMITTAL
4	01/29/2020	100% CD'S FOR REVIEW
3	05/28/2018	90% CD'S FOR REVIEW



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
ELEVATIONS

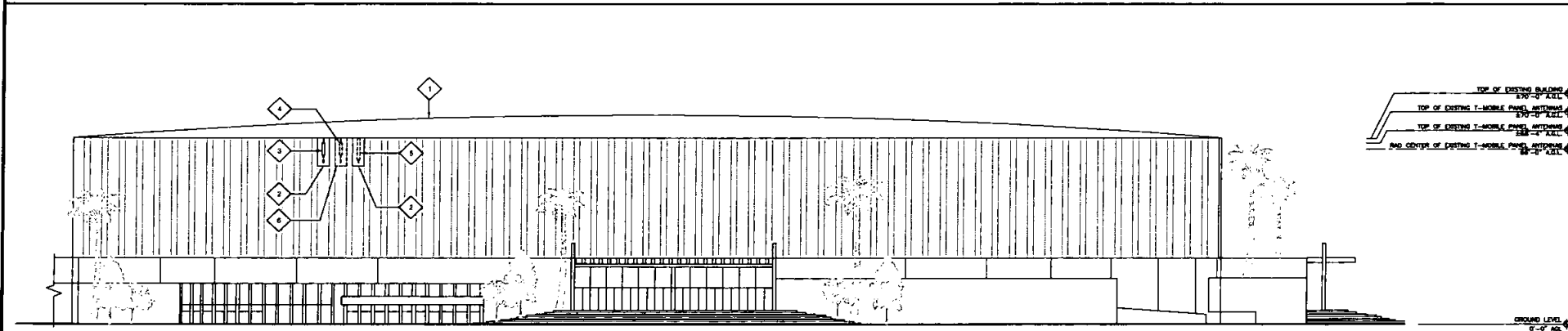
SHEET NUMBER
A-5

- 1 (E) BUILDING (TYP)
- 2 (E) T-MOBILE FRP SCREEN TO REMAIN (TYP)
- 3 (E) T-MOBILE AIR 21 KRC118023-1_B2A_B4P PANEL ANTENNA TO REMAIN:
(1) PER SECTOR, (3) TOTAL (TYP)
- 4 (E) T-MOBILE AIR 32 B4A_B2P PANEL ANTENNA TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 5 (E) T-MOBILE L4X-651505-A1M PANEL ANTENNA TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 6 (E) T-MOBILE FRP SCREEN TO BE REMOVED:
(1) PER SECTOR, (3) TOTAL (TYP)
- 7 (N) T-MOBILE AIR 3248 B8S PANEL ANTENNAS MOUNTED ON (E) PIPE MOUNT: (1) PER SECTOR, (3) TOTAL (TYP)
- 8 (N) T-MOBILE AP04WRR24_43-U-A430 PANEL ANTENNAS MOUNTED ON (E) PIPE MOUNT: (1) PER SECTOR, (3) TOTAL (TYP)
- 9 (N) T-MOBILE 14'-0" TALL FRP SCREEN TO MATCH (E) FRP SCREEN: (1) PER SECTOR, (3) TOTAL (TYP)

NOTE:

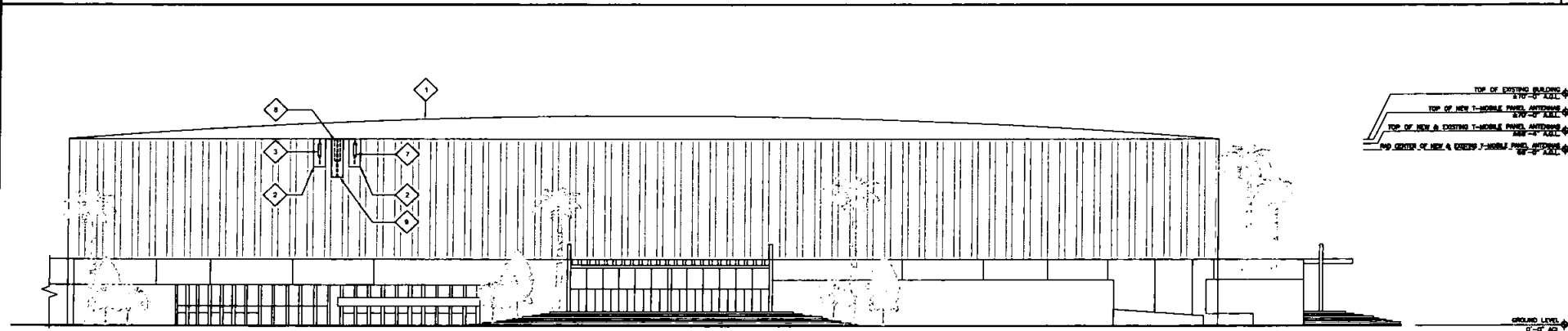
1. NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

KEYNOTES:



EXISTING SOUTH ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"



PROPOSED SOUTH ELEVATION

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"

T-Mobile

smartlink

M SQUARE
WIRELESS
1337 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 891-8834

DRAWN BY: DF
CHECKED BY: MM

REV	DATE	DESCRIPTION
0	04/09/2020	100% CD'S FOR SUBMITTAL
B	01/28/2020	100% CD'S FOR REVIEW
A	05/28/2019	90% CD'S FOR REVIEW

REGISTERED PROFESSIONAL ENGINEER
CSC#47
DATE SIGNED: 4/9/2020

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M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
ELEVATIONS

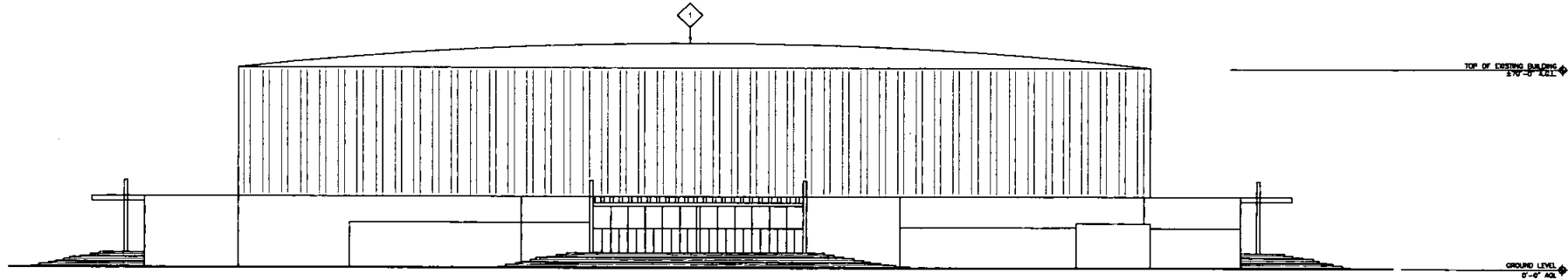
SHEET NUMBER
A-6

(E) BUILDING (TYP)

NOTE:

1. NEW PANEL ANTENNAS AND ALL MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING STRUCTURE IF REQUIRED. VERIFY PAINT MANUFACTURER AND FINISH WITH OWNER.

KEYNOTES:

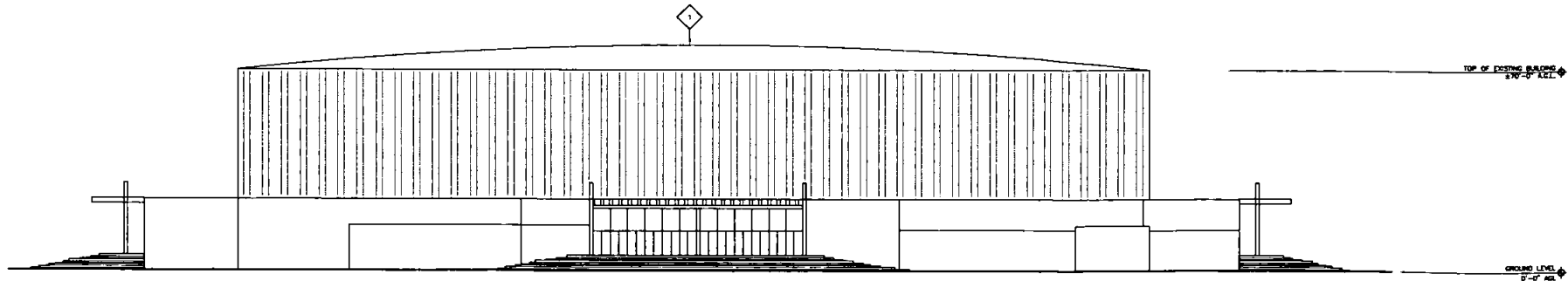


EXISTING WEST ELEVATION

24'-36" SCALE: 1" = 20'-0"
11'-17" SCALE: 1" = 40'-0"

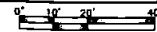


1



PROPOSED WEST ELEVATION

24'-36" SCALE: 1" = 20'-0"
11'-17" SCALE: 1" = 40'-0"



2

T-Mobile

smartlink

M SQUARE
WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6634

DRAWN BY: DF
CHECKED BY: MM

REV	DATE	DESCRIPTION
D	04/08/2020	100% CD'S FOR SUBMITTAL
B	01/29/2020	100% CD'S FOR REVIEW
A	05/28/2019	90% CD'S FOR REVIEW

REGISTERED PROFESSIONAL ENGINEER
CSC047
DATE SIGNED: 4/6/2020

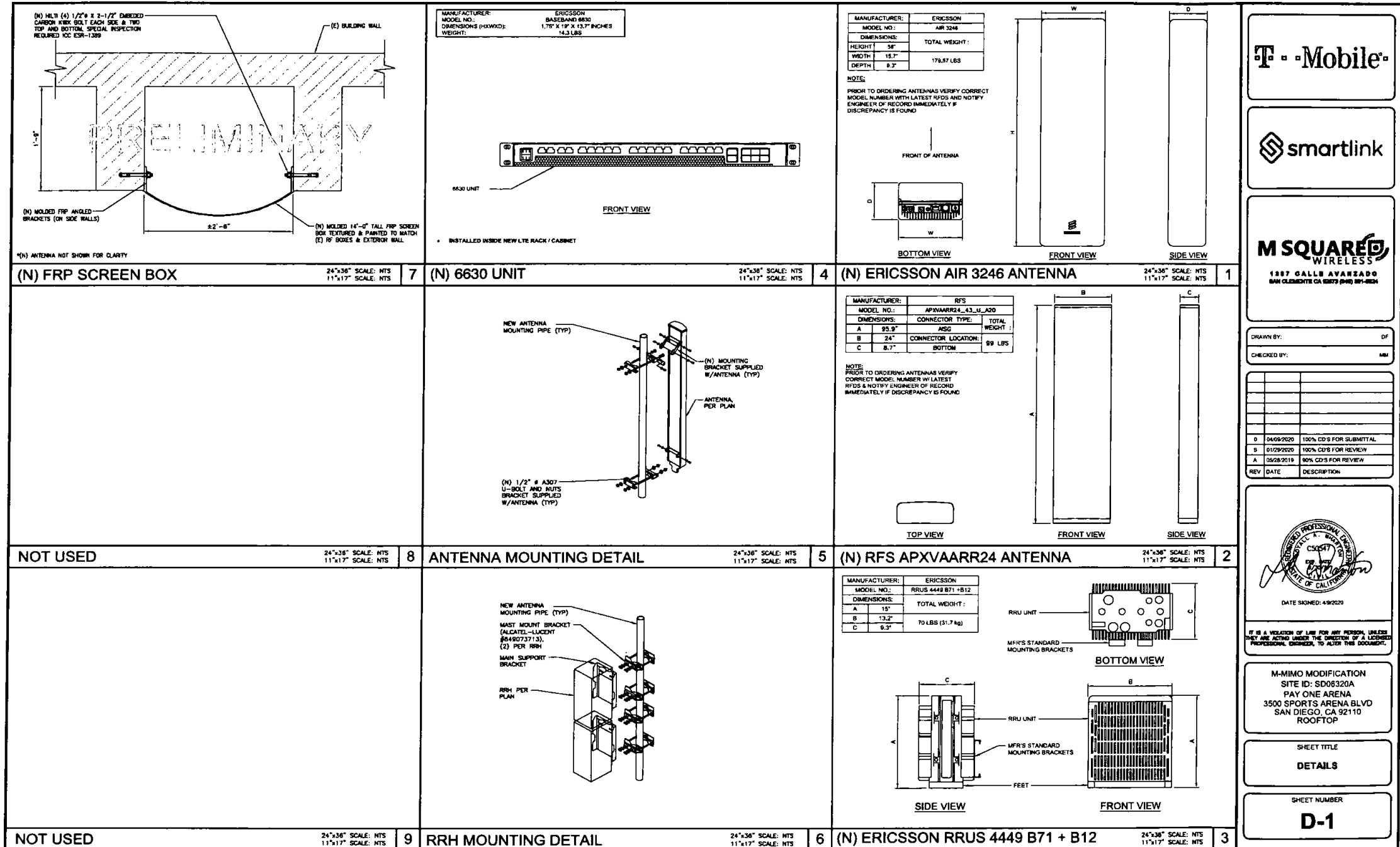
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PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT

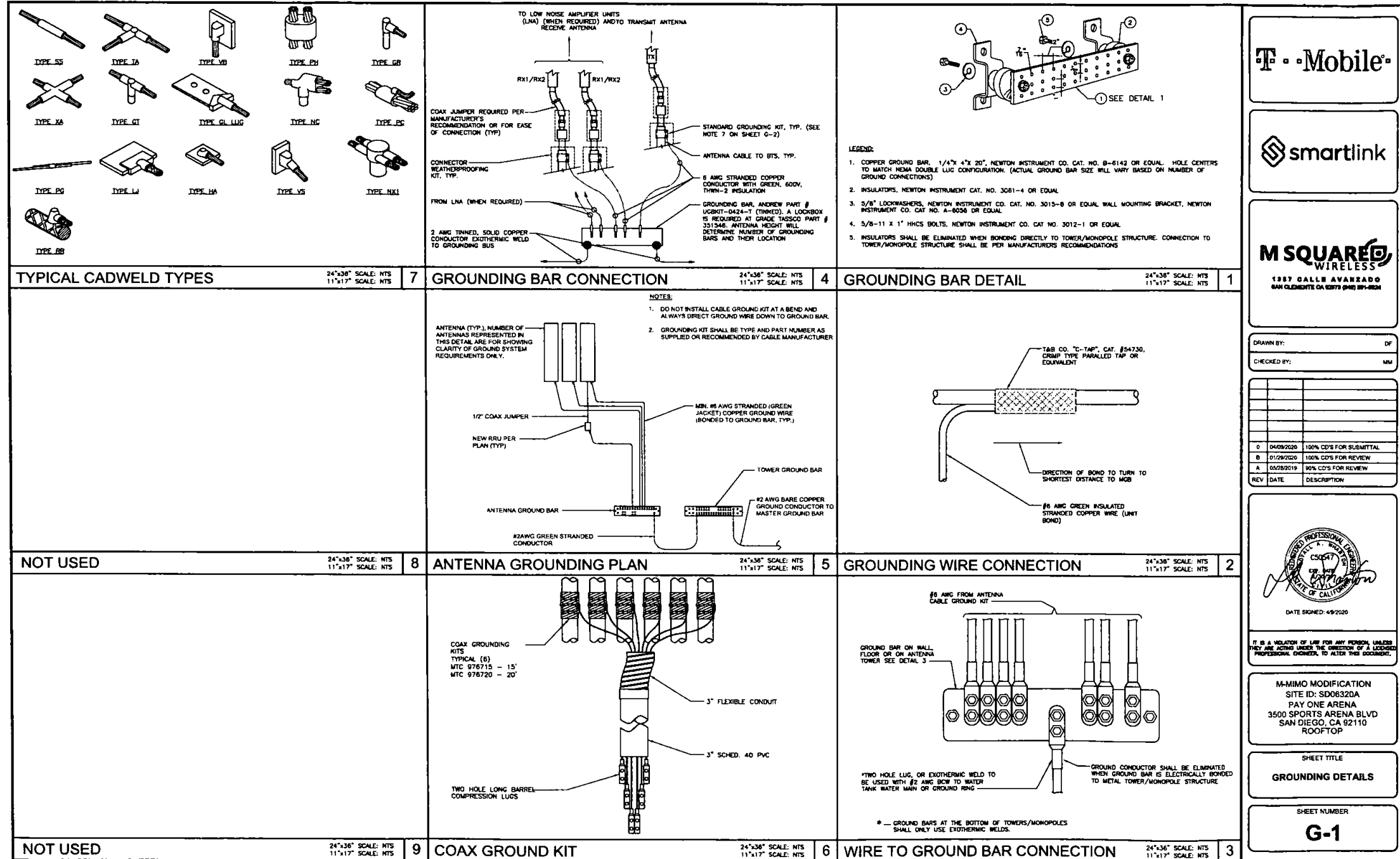
M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
ELEVATIONS

SHEET NUMBER

A-7





T-Mobile

smartlink

M SQUARE WIRELESS
1357 CALLE AVANZADO
SAN CLEMENTE CA 92773 (949) 891-8828

DRAWN BY: DF
CHECKED BY: MM

REV	DATE	DESCRIPTION
0	04/09/2020	100% CDS FOR SUBMITTAL
B	01/29/2020	100% CDS FOR REVIEW
A	05/28/2019	90% CDS FOR REVIEW

DATE SIGNED: 4/9/2020

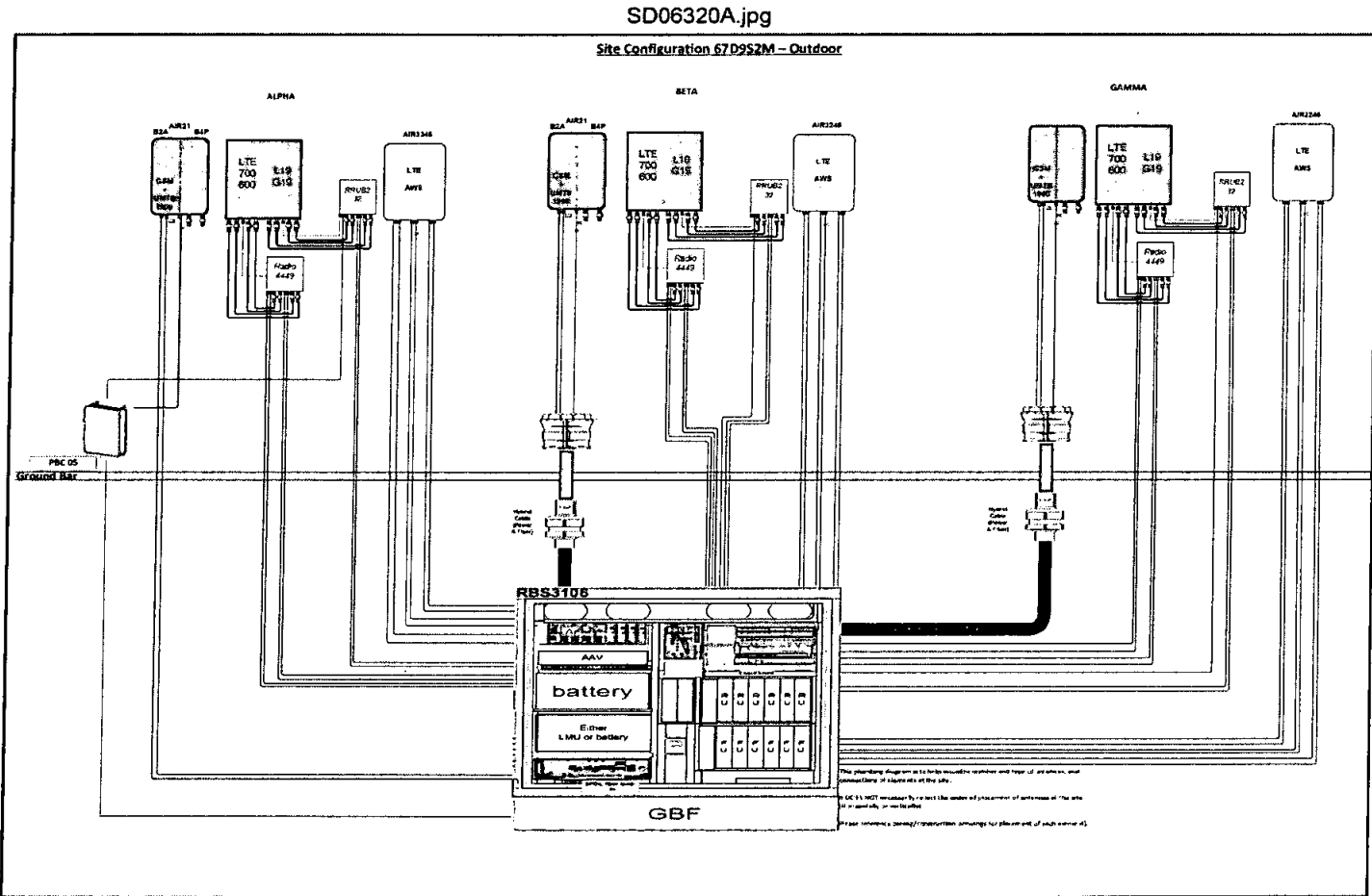
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M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

Section 3 - Proposed Template Images



T-Mobile

smartlink

M SQUARE WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92675 (949) 394-8824

DRAWN BY: DF
CHECKED BY: AM

REV	DATE	DESCRIPTION
0	04/09/2020	100% CD'S FOR SUBMITTAL
B	01/29/2020	100% CD'S FOR REVIEW
A	05/28/2019	90% CD'S FOR REVIEW

DATE SIGNED: 4/9/2020

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M-MIMO MODIFICATION
SITE ID: SD06320A
PAY ONE ARENA
3500 SPORTS ARENA BLVD
SAN DIEGO, CA 92110
ROOFTOP

SHEET TITLE
CABLE LINE DIAGRAM

SHEET NUMBER
RF-1