



10509 Vista Sorrento Pkwy Suite 206.
San Diego, CA 92121
Joseph.Thompson@T-Mobile.com

SENT VIA EMAIL,
RETURN RECEIPT REQUESTED: EMAIL

April 3, 2014

Enza Morero
City of San Diego | Real Estate Assets Department
Property Agent | Telecommunications Division
1200 Third Avenue, Suite 1700, San Diego, CA 92101

**Re: T-Mobile Site #: SD06198A San Diego Zoo - Food
Site Address: 2920 Zoo Drive, San Diego, CA 92112
Consent Request and Acknowledgement for Antenna Facilities Modification**

Dear Sir or Madam:

T-Mobile West Corporation, a Delaware corporation, as successor in interest to **TMO CA/NV LLC**, f/k/a Pacific Bell Wireless LLC, successor in interest to Pacific Bell Mobile Services, a California corporation, ("T-Mobile") and **City of San Diego** ("Landlord"), are parties to a **Communications Site Lease Agreement** dated May 22, 1996 (the "Lease") for a site located at 2920 Zoo Drive, San Diego, CA 92112, upon which T-Mobile operates wireless antenna facilities.

Pursuant to the Sublease, T-Mobile can modify or upgrade its facilities at any time during the term of the Sublease after obtaining Landlord's approval. T-Mobile needs to replace and/or upgrade its facilities by installing the equipment described in the attached Drawings. All equipment will be installed within the existing premises.

To confirm your approval of the modifications described in this letter and shown in the drawings included, please sign and date the following acknowledgement on both copies of this letter, keep one copy for your records and return the other signed letter to T-Mobile scan and send to aregan@deprattiinc.com. These modifications have been approved by planning and are in the process with building by the City of San Diego.

If you have any questions, please contact Anne Regan, DePratti, Inc. at (858) 602-6522. Thank you for your cooperation and attention to this matter.

Sincerely,

Joe Thompson
Development and Government Affairs Manager
T-Mobile West Corporation

Acknowledged, Accepted and Agreed:

Landlord: City of San Diego

By: [Signature]

Name: Kristin Geitz

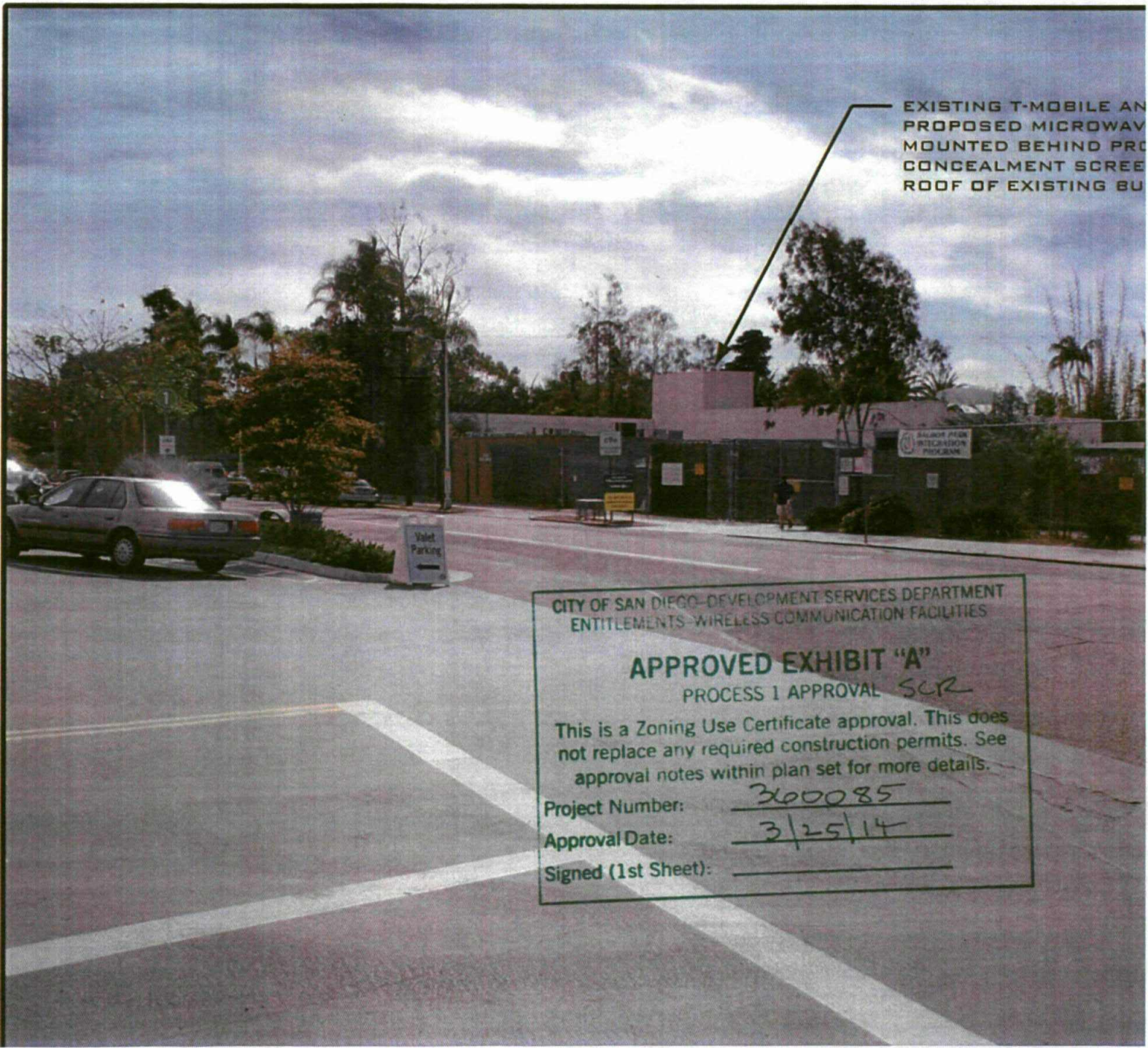
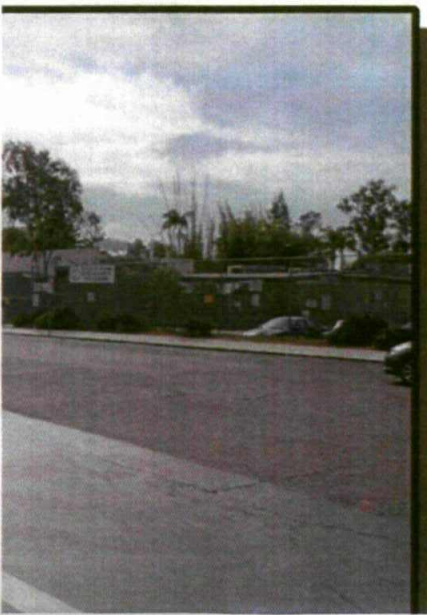
Title: Interim Real Estate Assets Director

Date: 4/22/14



VIEW

1920 ZOO DRIVE
SAN DIEGO, CA 92101



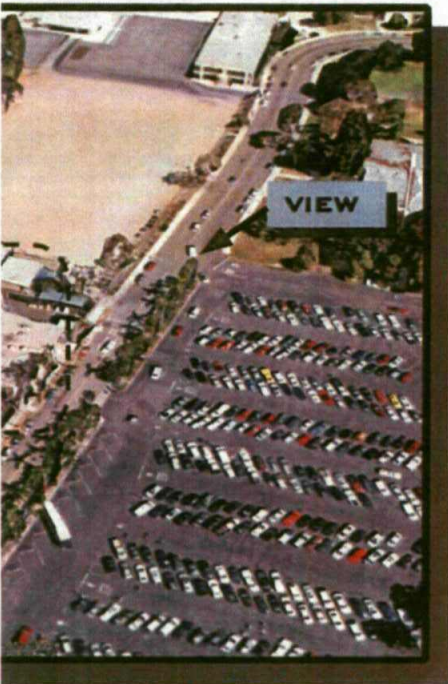
EXISTING T-MOBILE AND
PROPOSED MICROWAVE
MOUNTED BEHIND PRO
CONCEALMENT SCREEN
ROOF OF EXISTING BU

CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS-WIRELESS COMMUNICATION FACILITIES

APPROVED EXHIBIT "A"
PROCESS 1 APPROVAL *SCR*

This is a Zoning Use Certificate approval. This does not replace any required construction permits. See approval notes within plan set for more details.

Project Number: 3600085
Approval Date: 3/25/14
Signed (1st Sheet): _____



VIEW

8920 ZOO DRIVE
SAN DIEGO, CA 92101



EXISTING T-MOBILE AND
PROPOSED MICROWAVE
MOUNTED BEHIND PROPOSED
CONCEALMENT SCREEN
ROOF OF EXISTING BUILDING

CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
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APPROVED EXHIBIT "A"
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Project Number: 360085

Approval Date: 3/25/14

Signed (1st Sheet): _____

T-Mobile

**SD06198A SAN DIEGO ZOO
FOOD SERVICE BUILDING
2920 ZOO DRIVE, SAN DIEGO, CA 92101**



CITY OF SAN DIEGO DEVELOPMENT
ENTITLEMENTS WIRELESS COMM

APPROVED EXH
PROCESS 1 APP

This is a Zoning Use Certificate
not replace any required const
approval notes within plan s

Project Number: 36008
Approval Date: 3/25/11
Signed (1st Sheet): Attorney

DIRECTIONS TO SITE

FROM SAN DIEGO T-MOBILE OFFICE

1. HEAD SOUTHEAST ON VISTA SORRENTO PKWY TOWARDS DIRECTOR PL
2. TAKE THE 1ST RIGHT ONTO SORRENTO VALLEY RD
3. TAKE THE RAMP ONTO I-1505 S
4. TAKE EXIT 20 TO MERGE ONTO CA-163 S TOWARD DOWNTOWN
5. TAKE EXIT 2A TOWARD WASHINGTON ST E
6. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR UNIVERSITY AVE
7. TURN LEFT ONTO 9TH AVE
8. TURN LEFT ONTO UNIVERSITY AVE
9. TURN RIGHT ONTO PARK BLVD
10. TURN RIGHT ONTO ZOO DR

ARRIVE AT 2920 ZOO DR, SAN DIEGO, CA 92101



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DIRECTIONS TO SITE

VICINITY MAP

CLIENT APPROVALS

APPLICABLE CODES

1. 2013 CALIFORNIA BUILDING CODE (CBC) / 2012 INTERNATIONAL BUILDING CODE (IBC)
2. 2013 CALIFORNIA RESIDENTIAL CODE (CRC) / 2012 INTERNATIONAL RESIDENTIAL CODE (IRC)
3. 2013 CALIFORNIA ELECTRICAL CODE (CEC) / 2011 NATIONAL ELECTRICAL CODE (NEC)
4. 2013 CALIFORNIA MECHANICAL CODE (CMC) / 2012 UNIFORM MECHANICAL CODE (UMC)
5. 2013 CALIFORNIA PLUMBING CODE (CPC) / 2012 UNIFORM PLUMBING CODE (UPC)
6. 2013 CALIFORNIA FIRE CODE (CFC) / 2004 (IFC)
7. 2013 CALIFORNIA GREEN BUILDINGS STANDARDS CODE
8. 2012 BUILDING ENERGY EFFICIENCY STANDARDS

SITE NAME

SAN DIEGO ZOO
FOOD SERVICE BUILDING
SITE NUMBER
SD06198A

SITE ADDRESS

2920 ZOO DR,
SAN DIEGO, CA 92101

OWNER

ZOOLOGICAL SOCIETY OF SAN DIEGO
2920 ZOO DR,
SAN DIEGO, CA 92101

APPLICANT

T-MOBILE
10509 VISTA SORRENTO PARKWAY
SUITE 206
SAN DIEGO, CA 92121

ASSESSOR'S PARCEL NUMBER:
760-212-48-00

CURRENT ZONING:

UNZONED - BALBOA PARK

(E) OCCUPANCY:

S-2

(E) TYPE OF CONSTRUCTION:

V(N) SPRINKLED

PROJECT DESCRIPTION:

T-MOBILE WIRELESS PROPOSES TO CONTINUE OPERATING AND MAINTAIN AN UNMANNED, DIGITAL MOBILE RADIO COMMUNICATIONS FACILITY AT THIS SITE.

- ENTITLEMENTS: (6) ANTENNAS, (1) CABINETS
- EXISTING T-MOBILE EQUIPMENT CABINETS MOUNTED IN SHELTER (TOTAL 2) NO PROPOSED CHANGES TO (E) CABINETS. EXISTING SHELTER AREA: 140 SQ. FT.

TELECOMMUNICATION CARRIERS

NO OTHER CARRIERS ARE
LOCATED ON SUBJECT PROPERTY.

OWNER CONTACT

OPERATING FREQUENCIES:

TX (58K) - 1850 TO 1950 MHz
RX (58K) - 1870 TO 1950 MHz
TX (NCDMA) - 2190 TO 2155 MHz
RX (NCDMA) - 1750 TO 1755 MHz

RF INITIALS:

DATE

ZONING/PLANNING INITIALS:

DATE

ARCHITECT INITIALS:

DATE

CONSTRUCTION INITIALS:

DATE

SITE ACQUISITION INITIALS:

DATE

LANDLORD INITIALS:

DATE

ARCHITECTS & ENGINEERS

MITCHELL J. ARCHITECTURE
4883 RONSON COURT, SUITE N
SAN DIEGO, CA 92111
TEL: (658) 650-3130
FAX: (658) 650-3140

CONTACT: ART BROWN (PROJECT MANAGER)

APPLICANT REPRESENTATIVE

DEPRATTI INCORPORATED
CONTACTS:
MATT SAYED
TEL: (658) 349-8340
EMAIL: MATT.SAYED@GMAIL.COM

ANNE REGAN
TEL: (658) 602-6522
EMAIL: AREGAN@DEPRATTIINC.COM

APPLICANT CONTACT

T-MOBILE WIRELESS CORP.
10509 VISTA SORRENTO PARKWAY STE 206
SAN DIEGO, CA 92121
TEL: (658) 334-4158

LANDSCAPE ARCHITECT

DARSONO DESIGN ASSOCIATES, INC.
5014 MOUNT LA PLATTA DR.
SAN DIEGO, CA 92117
TEL: (658) 541-2007

CONTACT: DARSONO CUNNINGHAM

Sheet List Table	
Sheet Number	Sheet
G-001	TITLE SHEET, PROJECT IN
G-002	GENERAL SP
G-003	GENERAL NOT
G-004	APPROVAL NO
A-101	SITE PLAN
A-201	EXTERIOR I
A-301	ANTENNA ENCLOSUR
A-401	EQUIPMENT & ANTE
D-501	ANTENNA
S-100	FOUNDATION
S-101	ROOF SCREEN
S-501	STRUCTUR
S-502	STRUCTUR
S-504	STRUCTUR
S-505	STRUCTUR
LIP-01	LANDSCAPE IN
E-001	ELECTRICAL G
E-101	EXTERIOR GR
E-501	ELECTRICAL

TELECOMMUNICATIONS SITE AND IS EXEMPT

IF CONTRACTORS PARTICIPATING SHALL
VES WITH ALL FIELD CONDITIONS
DEMOLITION, ELECTRICAL, MECHANICAL
LL AS WITH THE CONSTRUCTION AND
THAT THE PROJECT CAN BE
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S BE FOUND, THE GENERAL CONTRACTOR
ONSTRUCTION MANAGER AND THE
DISCREPANCIES THE CONTRACTOR SHALL
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A DISCREPANCY EXISTS AND THE PROJECT
VED. THE GENERAL CONTRACTOR SHALL
CURRED TO REPAIR OR CORRECT ALL

E DRAWINGS ARE INTENDED TO BE
S HAVE PRECEDENCE OVER DRAWING
EDENCE OVER SMALL SCALE DRAWINGS
ALL DIMENSIONS IN THE FIELD. UNLESS
ANY MATERIALS, OR BEGIN ANY
DRAWING DIMENSIONS HAS BEEN VERIFIED

OR HER BID ALL MATERIALS, EQUIPMENT
TO COMPLETE THE WORK AS INDICATED

MOBILE CONSTRUCTION MANAGER, THE
ANY DETAILS ARE CONSIDERED
WATERPROOF, OR NOT WITHIN
PERFORMED, IT WILL BE ASSUMED THAT
DETAILS ARE INTENDED TO SHOW THE
IFICATIONS MAY BE REQUIRED TO SUIT
AS PART OF THE WORK.

BE JOINED SHALL BE VERIFIED BY THE
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IFY THE T-MOBILE CONSTRUCTION
MODIFICATIONS CAN BE MADE BEFORE

PHONE AND RADIO EQUIPMENT LAYOUT,
TION AND FINAL LOCATION WITH
R TO BEGINNING WORK. THE
COORDINATING HIS WORK WITH ERICSSON

ON THE DRAWINGS ARE CONSIDERED
RATOR HAS QUESTIONS REGARDING
ONSTRUCTION MANAGER AND THE
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IOUS SUPERVISION WHILE ANY
E SITE AND SHALL SUPERVISE AND
AND ATTENTION. HE SHALL BE SOLELY
ANS, METHODS, TECHNIQUES PROCEDURES
ALL PORTIONS OF THE WORK UNDER THE

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THE FOLLOWING MINIMUM REFERENCE
NAL CONSTRUCTION PRACTICE.

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PER THE LATEST EDITIONS OF THE TRADE
IONS UNLESS SPECIFICALLY OTHERWISE
REGULATIONS TAKE PRECEDENCE.

LATE, AND PROVIDE ALL NECESSARY
R OTHER SUPPORTS FOR ALL ITEMS

. SHALL GIVE ALL NOTICES AND SHALL
VES, REGULATIONS, LAWS AND
MENT OF INDUSTRIAL REGULATIONS AND
REQUIREMENTS.

REPLACED TO THE SATISFACTION OF T-MOBILE, AND THE PROPERTY OWNER'S
REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY,
ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY
DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND
ACCEPTANCE OF THE WORK BY T-MOBILE UNDER THIS CONTRACT.

18. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL
EXISTING UTILITIES, OR CONTACT AND OUTSIDE AGENCY TO LOCATE ALL EXISTING
UTILITIES. WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM
DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR
REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE IN CONJUNCTION WITH
THE EXECUTION OF WORK.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE
PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETE
AND ACCEPTED BY T-MOBILE.

20. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET
FACILITIES AS REQUIRED BY THE PROPERTY OWNER, T-MOBILE, AND THE CITY
GOVERNING AGENCY.

21. THE CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION DOCUMENTS
TO ILLUSTRATE THE AS-BUILT CONDITIONS ON THE SITE. THE SHALL BE DONE
AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE
BUILDING AGENCY. ONE SET OF REDLINED DRAWINGS SHALL BE PROVIDED TO THE
T-MOBILE CONSTRUCTION MANAGER.

22. THE LATEST EDITIONS OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO
THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY
WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE
CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF
PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT
ALL TIMES. THESE ARE TO BE UNDER THE CAPE OF THE JOB SUPERINTENDENT.

23. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A
DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS RETAINING THE PROPERTY OF THE
BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB
CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEANUP UPON
COMPLETION OF WORK. ALL AREAS TO BE LEFT IN A BROOM CLEAN CONDITIONS AT
THE END OF EACH DAY AND VACUUM CLEAN CONDITIONS, FREE FROM PAINT SPOTS,
DUST OR SMUDGES OF ANY NATURE AT COMPLETION OF WORK.

24. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S
PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.

25. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.

26. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE
MARSHALL APPROVED MATERIALS IF AND APPLICABLE TO THIS FACILITY AND
PROJECT SITE.

27. PROVIDE PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR
2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT
AREA CONSTRUCTION.

28. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 310

29. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS
AT WALL AND ROOF PENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT
INFILTRATION OF AIR AND MOISTURE.

30. UPON COMPLETION OF CONSTRUCTION, T-MOBILE CONSTRUCTION MANAGER SHALL
CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF
PROPERTY OWNER.

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINED ALL SYSTEM
EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY
T-MOBILE.

32. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE
MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE
INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

ROOF AND WATERPROOFING NOTES

1. CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER
WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING
WORK MEETS THE SPECIFICATIONS OF ANY EXISTING ROOFING WARRANTIES SUCH
THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT
IS DETERMINED THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER
OR IF ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY
NOTIFY THE ARCHITECTS AND THE T-MOBILE PROJECT MANAGER IN WRITING.
ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE
ORIGINAL ROOF MANUFACTURER'S SPECIFICATIONS.

2. CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILAR AND COMPATIBLE WITH
EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.

3. THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF AND BUILDING ENVELOPE
PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY
AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.

4. IF IT IS DEEMED NECESSARY TO REMOVED EXISTING FINISHES AND/OR MATERIALS,
THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND
MATERIALS LIKE-NEW CONDITIONS. CONTRACTOR SHALL MAINTAIN THE ORIGINAL
COLORS TEXTURES AND FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY
OR APPROVED BY THE T-MOBILE CONSTRUCTION MANAGER IN ADVANCE.

ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A
SPECIFIC PRODUCT AS NOTED ON PLANS OR A REQUIRED BY NOTES 1 & 2 ABOVE.

FIRE DEPARTMENT NOTES

1. THE T-MOBILE PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE
"MULTI" HIGH PERFORMANCE FIRE STOP SYSTEM # P5601 AT ALL FIRE RATED
PENETRATION INSTALLED PER MANUFACTURER'S LATEST INSTALLATION
SPECIFICATION.
2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO
AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.
3. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN
ACCORDANCE WITH CFC ARTICLE 87. (CFC 8701)
4. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A
POSITION AS TO BE PLAINLY SEEN VISIBLE AND LEGIBLE FROM THE STREET OR
ROAD FRONTING THE PROPERTY (CFC 901.4.4, FHPS POLICY P-00-6)
5. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT
CONDITION. (CALIF. CODE OF REGS., TITLE 19, 5.08, 5.21, CEC 7501.5)
6. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER
SYSTEM AND WATER-FLOW SWITCHES ON AL SPRINKLER SYSTEMS SHALL BE
ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLERS IS A 100 OR MORE.
(CFC 904.3.1, CFC 1003.3.1)
7. INSTALLATION OF FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITH CFC 1007.

PORTABLE FIRE EXTINGUISHERS

1. AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B-C SHALL BE
PROVIDED WITHIN 75 FT. MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQ. FT. OR PORTION
THEREOF ON EACH FLOOR (CFC 1002, UFC STANDARD 10-1, CALIF. CODE OF REGS., TITLE 19,
5.29)

FIRE PROTECTION SYSTEMS

1. COMPLETE PLANS AND SPECIFICATIONS FOR ALARM SYSTEMS, FIRE-EXTINGUISHING SYSTEMS,
INCLUDING AUTOMATIC SPRINKLERS AND OTHER FIRE-PROTECTION SYSTEMS SHALL BE
SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL TO INSTALLATION (CFC
100.3)

PAINTING NOTES & SPECIFICATIONS

- A. GENERAL
 1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY
NOTED TO THE CONTRARY.
 2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER
LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
 3. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT
DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY
MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
 4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING
ADJACENT SURFACES UNLESS OTHERWISE NOTED.
 5. ALL PAINT MATERIALS DATA SHEETS SHALL BE PROVIDED TO THE T-MOBILE
CONSTRUCTION MANAGER.
 6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT
SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY
ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH B5PC-BPM
 7. FURNISH DROP CLOTHES, SHIELDS, MASKING, AND PROTECTIVE METHODS TO
PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND
FACILITIES.
 8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING
ENAMEL COAT ON FLAT SURFACES. APPLY LIGHTLY TO ACHIEVE A COATING NO
THINNER THAN THE DRY FILM THICKNESS INDICATED.
 9. APPLY BLOCK FILLER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE
COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
 10. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES, AND OTHER DEFECTS
INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE T-MOBILE CONSTRUCTION
MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH,
EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.
- B. PAINT SCOPE
1. PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE
COATING SYSTEM INDICATED.

PAINT SCOPE				
SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
STS UNIT	A		●	
ALL EQUIPMENT AND CABINETS OTHER THAN THE STS UNIT	A		●	
ANTENNA CONDUIT, TILT BRACKET, MOUNTING BRACKET AND ASSOCIATED HARDWARE. CONDUIT COVERS EXPOSED CONDUIT AND WANGERS AND BOWTS	B		●	
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES	B		●	
STUCCO, CONCRETE CONCRETE BLOCK AND CONVENTIONAL TYPE FINISH SYSTEMS	B		●	
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE WALL TOP OF ALL SPRINKLER	B		●	

100% ACRYLIC, LATEX COATING EQUIVALENT TO SHILTON (SHEILAN) BY S
WILLIAMS CO. (1 MIL DFT PER COAT) APPLIED IN TWO COATS OVER SPECIFIC
PRIME.

PAINT AND PRIMER

ANTENNAS
PRIMER - KEY AQUA E61-M525
TOPCOAT - COROTHANE II B65H-020/B60V2

STS CABINET
PRIMER - KEY AQUA E61-M525
TOPCOAT - COROTHANE II B65H-020/B60V2

CONCRETE JOISTER CABLES
PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEY AQUA
RESILIBLE PRIME E61-M525 REDUCED 25%
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65H-020/B60V2

RAW STEEL
PRIMER - KEY BOND HS B50H-024
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65H-020/B60V2

GALVANIZED METAL
ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR
PRIMER COAT AND FINISH COAT (SIGNED Job Sheet)

STAINLESS STEEL
PRIMER - GPM WASH PRIMER, 87111
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65H-020/B60V2

PRE-PAINTED STEEL
TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEY BOND HS, B50H-024

ALUMINUM AND COPPER
PRIMER - GPM WASH PRIMER, 87111
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65H-020/B60V2

CONCRETE MASONRY (NEW)
PRIMER - PRO MAR EXTERIOR BLOCK FILLER
TOPCOAT - 2 COATS A-100 LATEX HOUSE AND TRIM, SHEEN TO MATCH

CONCRETE STUCCO (EXISTING)
2 COATS A-100 LATEX HOUSE AND TRIM SHEEN TO MATCH

STUCCO
PRIMER - PRO MAR MASONRY CONDITIONER B-46-MC1000
TOPCOAT - SUPERPAINT A-60 SERIES A-64 SATIN A-64 GLOSS

WOOD
PRIMER - A-100 EXTERIOR ALKYL WOOD PRIMER T-24W20
TOPCOAT - 2 COATS A-100 LATEX HOUSE AND TRIM, SHEEN TO MATCH
ADJACENT SURFACES

GLU-LAM BEAMS
PRIMER - A-100 EXTERIOR ALKYL WOOD PRIMER T-24W20 TWO COATS SH
APPLIED PER GLU-LAM MANUFACTURER'S SPECIFICATIONS

TOPCOAT - SUPERPAINT A-60 SERIES A-64 SATIN A-64 GLOSS. TWO COA
SHOP OR FIELD APPLIED AT CONTRACTOR'S OPTION

FIELD CUTS / DAMAGE (PRIOR TO PRIME AND PAINT)
FIRST AND SECOND COAT - GUMROL CLEAR WOOD PRESERVATIVES # 19
ALL PENETRATIONS INTO FINISHED GLU-LAMS SHALL BE CAULKED WITH
"SIKAPLEX" SEALANT

STEEL TOUCH UP
STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHAL
TOUCHED UP WITH COLD GALVANIZED PAINT.

GENERAL ANTENNA AND CABLE NOTES

A. GENERAL

1. ALL ANTENNAS AND ANTENNA CABLE SHALL BE FURNISHED BY T-MOBILE
INSTALLED BY ANTENNA INSTALLATION CONTRACTOR.
2. PRIOR TO PLACEMENT OF ANTENNA POLE MOUNTS THE CONTRACTOR SHAL
VERIFY THAT THE AZIMUTH AND DIMENSIONS SHOWN ON THE PLANS MATCH
ACTUAL FIELD CONDITIONS.
ALLOWABLE TOLERANCE:
HORIZONTAL ALIGNMENT ± 3 DEGREES
VERTICAL ALIGNMENT ± 1 DEGREE
3. ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CAB
TRAY, GROUNDING, ETC. FOR COMPLETE INSTALLATION OF ANTENNAS AND
SHOWN AND INTENDED AS REQUIRED FOR A COMPLETE OPERATING SYSTE
ACCORDANCE WITH T-MOBILE STANDARDS.
4. IN NO CASE SHALL THERE BE ANY MORE THAN TWO (2) 90 DEGREE TURN
EQUIVALENT) IN ANY CONTINUOUS LENGTH OF CONDUIT BETWEEN PULL BOX
SPSULAR FEATURES.
5. ANTENNA CONDUIT SHALL ONLY INCLUDE FACTORY-MADE LARGE RADIUS I
AT ALL CHANGES IN DIRECTION. SWEEP RADIUS SHALL BE 18" MINIMUM I
GROUND AND 36" MINIMUM BELOW GROUND.
6. CONDUIT SHALL BE 3" DIAMETER MINIMUM ALL UNDERGROUND CONDUIT SH
SCHEDULE 40 PVC. ALL EXPOSED CONDUIT ABOVE GRADE LEVEL SHALL BE
B OR RIGID GALVANIZED. ALL EXPOSED CONDUIT PROTECTED IN A BUILDIN
A ROOF SHALL BE EFT OR UV STABILIZED PAINTED SCHEDULE 80 PVC.
7. IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE CONTRACT
SHALL PROVIDE FORMED 14 GA. GALVANIZED SHEET METAL COVER COAXIAL
CABLE ROUTES. WHERE CABLE IS RUN ON THE WALL, ATTACH UNISTRUT
AND COVER WITH 14 GA. GALVANIZED FORMED SHEET METAL COVER OR
MATERIAL AS DIRECTED BY T-MOBILE CONSTRUCTION MANAGER.

CUTTING, ADJUST INDICATED
ENT @ FACILITIES.

BE 120'-0"
L BE 350'-0"

T-MOILE.

INTERAS AND SHALL PROVIDE
LAGER.

GS AT EACH END OF THE MAIN
THE JUMPER CABLE LOCATED
AGS SHALL BE LABELED PER

NA 7. ALNA RX-BBR TX-BST
NA 8. ALNA RX-BAR TX-BAT
NA 9. ALNA RX-CIR TX-CIT
NA 10. ALNA RX-CIR TX-CIT
NA 11. ALNA RX-CIR TX-CIT
NA 12. ALNA RX-CAR TX-CAT



CONNECTOR TO CONNECTOR) SHALL
1) MAXIMUM.

OCEDURE IS TO TIGHTEN THE
E WRENCH OF A SUITABLE SIZE
RRECT TORQUE SETTINGS AT
2LD BE TAKEN NOT TO SPIN THE
TIGHT. STANDARD OPEN END
BODIES.

VERY IMPORTANT IN OBTAINING
JRS ARE CLEAN WHEN PACKAGED
CONTACT SURFACES CLEAN AND
ASSEMBLY PROCESS.

FLC CONNECTORS

MAXIMUM COUPLING
TORQUE FOR BACKBUT
TO BODY ASSEMBLY

15 lbf-ft (20 N-m)

12 lbf-ft (16 N-m)

20 lbf-ft (27 N-m)

30 lbf-ft (40N-m)

40 lbf-ft (54N-m)

SIFIED, THE FOLLOWING GENERAL
RAWINGS SHALL HAVE THE

SCALE SHOWN ON PLANS,

KE PRECEDENCE OVER GENERAL

E DRAWINGS SHALL TAKE

NCES DEPARTMENT
NGS FOR ALL DIMENSIONS NOT

3IT "A"

VAL SCR

approval This does
tion permit's See
for more details.

5

14

SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.

- SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORALLY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN ITS COMPLETE FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTING WHERE APPLICABLE.
- SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
- WATERPROOFING: WATERPROOFING AND DRAINAGE, DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSE ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT.

D. STEEL

- ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM- A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.
- ALL BOLTS SHALL CONFORM TO ASTM A-325
- STEEL PIPE COLUMN SHALL BE GRADE "B" CONFORMING TO ASTM A33
- STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A300
- ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.
- THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
A. 250 AMP WELDERS
B. ROD OVENS
C. GRINDERS
- NO BUZZ BOXES SHALL BE USED.
- ALL STRUCTURAL STEEL SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.
- ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
- STEEL THAT HAS BEEN WELDED, CUTOR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.
- WELDING INDICATED IN THESE DRAWING IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALLY NOTED "FULL STRESS" AT END OF WELD SYMBOL.
- CONCRETE:
1. STRENGTH CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAY.

LOCATION	STRENGTH	WT.	SLUMP	AD MIXTURE
A. SLAB 1 FOOTING	2500 psi	150 psi	4"	NONE

- INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GRATER THAN 2500 psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE DEPARTMENT.
- REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN DEFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWING:
#4 AND SMALLER BARS GRADE 40
#5 AND LARGER BARS GRADE 60
ALL BARS AT CAISSON FOOTINGS... GRADE 60
- CEMENT: FOUNDATIONS AND SLABS: TYPE II, LOW ALKALI, CONFORMING TO ASTM A615. PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM 0-150.
- AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM 0-33. USE ONLY AGGREGATE KNOWN NOT CAUSE EXCESSIVE SHRINKAGE. MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE FOLLOWING:
A. FOUNDATION AND SLAB 9" OR LESS: 3/4" GRAVEL
B. PIER/CAISSON FOOTING: 1" GRAVEL
- WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.
- MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94 NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.
- SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET.

SHALL BE STAGGERED WHEREVER POSSIBLE.

- REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING FACE OF BARS SHALL BE AS FOLLOWING:
A. CONCRETE IN CONTACT WITH EARTH, UNFORMED. 5"
B. CONCRETE IN CONTACT WITH EARTH, FORMED. 1-2"
C. WALL, EXTERIOR FACE. 1-2"
D. WALL, INTERIOR FACE. 1"
E. STRUCTURAL SLABS. 3/4"
F. JOISTS. 3/4"
G. BEAMS, GIRDERS AND COLUMNS. 1-1/2"
- PENETRATION: NO SLEEVES OR CHASE SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL SLEEVES OF CHASE. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM STRUCTURAL ENGINEER.
- EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GRATER THAN 1/4" THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.
- ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DONELS, INSERTS, ETC. SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BOUNDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR A 7 DAY MINIMUM PERIOD.
- CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.
- TIMBER
1. ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO.1 GRADE DOUGLAS FIR, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, UNLESS NOTED OTHERWISE ON DRAWINGS.
3. STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO.2 AND BTR GRADE DOUGLAS FIR, 2X4 STUD WALL SHALL BE D.F. STANDARD AND DTR.
4. ALL BEAMS, JOIST AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.
5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16 EDGE NAIL WITH 6d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FIELD NAIL WITH 6d AT 12" O.C.
6. PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.
7. PLYWOOD SHALL BE GRADE MARKED BY OFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83
8. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 19% AT THE TIME OF INSTALLATION.
9. MINIMUM NAILING SHALL COMPLY WITH TABLE 23-II-B-1 OF UNIFORM BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
11. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.
12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SIMPSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
13. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.
14. ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS
A. LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-V12
B. STRENGTH PROPERTIES:
Fb BOTTOM FIBER BENDING STRESS 2000 psi MIN.
Fb TOP FIBER BENDING STRESS 1000 psi MIN.
Fv SHEAR STRESS 140 psi MIN.
Fc COMPRESSION STRESS PERPENDICULAR TO GRAIN 560 psi MIN.
E MODULUS ELASTICITY 1400 ksi MIN.
C. CAMBER TO RADIUS OF 1600' U.O.N.
D. ALL GLUE'S SHALL BE FABRICATED WITH EXTERIOR GLUE.
E. MANUFACTURERS OF GLUE'S SHALL CONFORM TO THE USC.
F. GLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.

A/C ADJ. APPX. ASTM	AIR ADJUSTABLE ABOVE FRESH FLOOR APPROXIMATELY AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WIRE GAUGE	GND. GND GTP. BD.	GROUND GYPSUM WALL BOARD GYPSUM BOARD	REDD RM R.O.
ANG	BLOG. BLG. BTR BVS	BUILDING BLOCK BASE MOBILE RADIO BUILDING STANDARD	HARDWOOD HORIZONTAL HOUR HEIGHT HEATING, VENTING AND AIR CONDITIONING	S SHT SPL SPEC. SO SS STL STRUCT. SUSP. S.V.
CLS CLR CONC. CONST. CONT.	CEILING CLEAR CONCRETE CONSTRUCTION CONTINUOUS	LD. IN INFO NSAL INT.	INSIDE DIA. RADI INFORMATION INSULATION INTERIOR	THRU THAD T.O.C. T.O.P. TYP
DEL. DIA. DIAZ. DPL DN DTL DNG.	DOUBLE DIAMETER DIAGONAL DIMENSION DOWN DETAIL DRAWING	MAX MECH. MET. MTL MFR MGR PLN PLSC	MAXIMUM MECHANICAL METAL MANUFACTURER MANAGER MANUM MISCELLANEOUS	USC LND VERT. VF VT
E EA. EL. ELEV ELECT EQ. EQUIP. E.H. EXST. EXT	EAST EACH ELEVATION ELECTRICAL ESIAL EQUIPMENT EACH MAY EXISTING EXTERIOR	N NA NIC NTS	NORTH NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE	M MV MUN MUN M.P.
FIN. FLOR. FLR FT.	FRESH FLUORESCENT FLOOR FOOT	OC, w/s OD. OPG. OPP	ON CENTER OUTSIDE DIAMETER OPENING OPPOSITE	A B C D E
GA. GALV GC	GAUGE GALVANIZED(?) GENERAL CONTRACTOR	PLYTHO. PR PROP PROP PT	PLYWOOD PAIR PROJECT PROPERTY PRESSURE TREATED	F
REVISION		100	ROOM NUMBER	A A-4.0
KEY NOTES		1	KEYED NOTES	
DETAIL REFERENCE		A A-3.0	ELEVATION REFERENCE	

CERTIFICATION OF COMPLIANCE FOR OFF-SITE FABRICATION

WHEN COMPONENTS ARE SHOP FABRICATED, THE FABRICATOR SHALL ISSUE A
"CERTIFICATION OF COMPLIANCE" FOR OFF-SITE FABRICATION FORM.

SUCH FORM STATES THAT THE FABRICATED COMPONENTS COMPLY WITH THE
APPROVED PLANS, SPECIFICATIONS AND APPLICABLE REGULATIONS. THIS
CERTIFICATE SHALL BE SUBMITTED TO THE INSPECTION SERVICES DIVISION AND
THE ARCHITECT OF RECORD. PRIOR TO SHIPMENT OF PREFABRICATED
COMPONENTS, IT WILL ACCOMPANY THE PREFABRICATED COMPONENTS WHEN
SHIPPED TO THE JOB-SITE. THIS FORM MAY BE OBTAINED FROM THE INSPECTION
SERVICES DIVISION.

SPECIAL INSPECTION

SPECIAL INSPECTIONS (OR PERIODIC) MUST BE PERFORMED BY SPECIAL
INSPECTIONS CERTIFIED BY THE INSPECTION SERVICES DIVISION OF THE CITY OF
SAN DIEGO, PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.

A LIST OF APPROVED CONSTRUCTION MATERIALS TESTING LABORATORIES AND
SPECIAL INSPECTION AGENCIES IS AVAILABLE FROM INSPECTION SERVICES.

A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL
INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES
DIVISION.

FRP SPECIFICATIONS

- ALL FIBERGLASS STRUCTURAL SHAPES MUST BE FIBERGRATE (LARRIVISSA APPL
LOS ANGELES), AND CANNOT BE PUNCHED OR SHEARED. ALL CUTS INCLUDING BE
SEALED WITH EPOXY.
- ALL FIBERGLASS NEEDS TO BE PROTECTED WITH UV COATING, IF EXPOSED TO U
- ALL METALLIC PARTS (STRUCTURAL STEEL SHAPES, BOLTS, ETC.) MUST BE KEI
ANTENNAS.
- USE 1/4" DIA. FRP THREADED ROD (LARRIVISSA) FASTENERS FOR ALL FIBERGRAI
NOTED OTHERWISE.
- MINIMUM FASTENER EDGE, DISTANCE AND SPACING, UNLESS OTHERWISE NOTED:
END EDGE DISTANCE - 3 X DB
SIDE EDGE DISTANCE - 2 X DB
PITCH (SPACING) - 5 X DB
- ALL FABRICATED IS GOVERNED BY FIBERGRATE DESIGN MANUAL.

STANDARD REQUIREMENTS:

1. This permit must be utilized within thirty-six (36) months after the date on which all rights of appeal have expired. If this permit is not utilized in accordance with Chapter 12, Article 6, Division 1 of the SDMC within the 36 month period, this permit shall be void unless an Extension of Time has been granted. Any such Extension of Time must meet all SDMC requirements and applicable guidelines in effect at the time the extension is considered by the appropriate decision maker. This permit must be utilized by January 3, 2016.

2. This Neighborhood Use Permit (NUP) and corresponding use of this site shall expire on December 10, 2022. Upon expiration of this Permit, the facilities and improvements described herein shall be removed from this site and the property shall be restored to its original condition preceding approval of this Permit.

3. No later than ninety (90) days prior to the expiration of this permit, the Owner/Permittee may submit a new application to the City Manager for consideration with review and a decision by the appropriate decision maker at that time. Failure to submit prior to the deadline will be cause for enforcement for noncompliance, which may include penalties and fines.

4. Under no circumstances, does approval of this permit authorize the Permittee to utilize this site for wireless communication purposes beyond the permit expiration date. Use of this permit beyond the expiration date of this permit is prohibited.

5. No permit for the construction, occupancy, or operation of any facility or improvement described herein shall be granted, nor shall any activity authorized by this Permit be conducted on the premises until:

- The Owner/Permittee signs and returns the Permit to the Development Services Department; and
- The Permit is recorded in the Office of the San Diego County Recorder.

6. While this Permit is in effect, the subject property shall be used only for the purposes and under the terms and conditions set forth in this Permit unless otherwise authorized by the appropriate City decision maker.

7. This Permit is a covenant running with the subject property and all of the requirements and conditions of this Permit and related documents shall be binding upon the Owner/Permittee and any successor(s) in interest.

Page 2 of 6

CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS-WIRELESS COMMUNICATION FACILITIES

APPROVED EXHIBIT "A"

PROCESS 1 APPROVAL SCK

This is a Zoning Use Certificate approval. This does not replace any required construction permits. See approval notes within plan set for more details.

Project Number:

3600085

Approval Date:

3/25/14

Signed (1st Sheet):

March 29, 2014

Approval Type	Substantial Confirmation Review (SCR)
Project #	2264576
Approval #	01070513 (NUP)
Expires	12/10/2022
SCR Approval No.	1101405
SCR Project Name	T-Mobile SD Zoning SCR
SCR Project No.	114105
Site Address	2920 Zee Drive

The Development Services Department has approved a Process 1 SCR for this project was determined to be consistent with the objectives, standards, guidelines and/or code of the previously approved Permit.

The approved modifications include adding a 2' wide microwave dish behind the existing transparent screen wall. The microwave dish and support structure shall not extend beyond the screen wall and shall not be visible. The requested changes to the previously approved Exhibit "A" for this project have been determined to be consistent with the general and conditions of the previous approval (identified above) as well as any other applicable regulations, development standards and guidelines of the Municipal Code in effect. All applicable and relevant conditions and findings of approval as specified in the previous approval shall remain in full effect for this site, unless otherwise specified by the Development Services Department.

Alex Hampton, AICP
Development Project Manager

4-1111

Permit Type/PTS Approval No.: Neighborhood Use Permit No. 1
Date of Approval: 12/

AUTHENTICATED BY THE CITY OF SAN DIEGO DEVELOPMENT SERVICES DEPARTMENT

Alex Hampton, AICP
Development Project Manager

NOTE: Notary acknowledgment must be attached per Civil Code section 1189 et seq.

The undersigned Owner/Permittee, by execution hereof, agrees to each and every condition of this Permit and premises to perform each and every obligation of Owner/Permittee herein.

ZOOLOGICAL SOCIETY OF SAN DIEGO
Co-Permittee

Paula Brock, Chief Financial Officer

T-MOBILE WEST CORPORATION
Co-Permittee

Joseph Thompson, Development

CITY OF SAN DIEGO - REAL ESTATE
Owner

David Sandhu, Deputy Director

21. The Permittee shall place appropriate signage on the WCF as required by CAL-OSHA/FCC to the satisfaction of the Development Services Department.

24. The use or replacement of any building facade or mechanical screen with FRP material for purposes of concealing antennas shall not result in any noticeable lines or edges in the transition to the original building. All FRP shall be painted and textured to match the original building. Antennas and mounting apparatus shall not extend above the radio-frequency transparent screening.

25. Within 120 days, or no later than April 9, 2014, the Permittee shall submit construction plans to Development Services for review.

26. Within 160 days, or no later than December 5, 2014, the Permittee shall complete required WCF improvements and pass the final Telecom Planning inspection.

27. Fines and other penalties shall be imposed should the deadlines specified in this permit fail to be achieved.

INFORMATION ONLY:

• The issuance of this discretionary use permit alone does not allow the immediate commencement or continued operation of the proposed use on site. The operation allowed by this discretionary use permit may only begin or recommence after all conditions listed on this permit are fully completed and all required ministerial permits have been issued and received final inspection.

• Any party on whom fees, dedications, reservations, or other exactions have been imposed as conditions of approval of this Permit, may protest the imposition within ninety days of the approval of this development permit by filing a written protest with the City Clerk pursuant to California Government Code section 66020.

• This development may be subject to impact fees at the time of construction permit issuance.

APPROVED by the Development Services Department of the City of San Diego on December 10, 2012 and CS-6294.

control the litigation and make litigation related decisions, including, but not limited to, settlement or other disposition of the matter. However, the Owner/Permittee shall not be required to pay or perform any settlement unless such settlement is approved by Owner/Permittee.

LANDSCAPE REQUIREMENTS:

14. Existing vegetation adjacent to the food services building, as shown on Exhibit "A" plans and photo simulations, be retained and integrated with the WCF. The existing vegetation shall be maintained in a healthy growing condition to the satisfaction of the Development Services Department.

PLANNING/DESIGN REQUIREMENTS:

15. A topographical survey conforming to the provisions of the SDMC may be required if it is determined, during construction, that there may be a conflict between the building(s) under construction and a condition of this Permit or a regulation of the underlying zone. The cost of any such survey shall be borne by the Owner/Permittee.

16. The Owner/Permittee shall maintain the WCF in good working order; free from trash, debris, graffiti; and designed to discourage vandalism. Any damaged equipment shall be repaired or replaced within thirty (30) calendar days of notification by the City of San Diego.

17. The Permittee shall notify the City within 30 days of the sale or transfer of this site to any other provider or if the site is no longer operational requiring the removal and the restoration of this site to its original condition.

18. The photo simulation(s) for the proposed project shall be printed (not stapled) on the building plans. This is to ensure the construction team building the project is in compliance with approved the Exhibit "A."

19. No overhead cabling is allowed for this project.

20. The Permittee shall not cause or allow the antennas located on the building to be different sizes (length, width, or height) than as shown on the stamped approved plans.

21. Prior to the issuance of a construction permit, the telecommunication provider shall provide a certified cumulative radio frequency model study demonstrating compliance with the Federal Communications Commission's Radio Frequency Guidelines. All significant contributors to the ambient RF environment should be considered in the radio frequency model study.

22. All equipment, including transmitters, emergency generators and air conditioners

ORIGINAL

USE FOR ALL COMMENTS USED

1513
4576

led by the Development Services Department, Owner, and THE CORPORATION, Co-Owner 0420 and 126.0201.

D. The project site is legally zoned, according to map made by the City of San Diego County on 11/11/11 as the Food Services Department's Assessment's purposes only.

mission is granted to less Communication type, and location on the the Development Services

Services building, behind the antenna

it may have the secondary antenna.

ORIGINAL

use of this and any other

the Owner/Permittee regulations or policies (A) and any amendments

1. The Owner/Permittee is responsible for improvements and plumbing codes, and

"A." Changes, unless appropriate

and were determined the Permit holder is the Permittee that are

Permittee of this Permit, is reasonable, or unreasonable, the Permittee shall have the right, without the "invalid" if the determination by the Permittee of this Permit shall be a hearing de novo, disapproval, or modify

the City, its agents, damages, judgments, or employees, relating to track, set aside, void, document or decision proceeding and, if the shall not thereafter be the officers, and

personally appeared: Alex Hempton

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) was subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Signature]

Notary Public for California
My Comm. Expires May 9, 2015

GEORGETTE DEARIEA MARTEL
Commission # 184731
Notary Public - California
San Diego County
My Comm. Expires May 9, 2015

Through the information below is not required by law, it may prove valuable to persons relying on the document and I could prevent fraudulent removal and modification of this form to another document.

Description of Attached Document
Title or Type of Document: T-Mobile - SD Zoo - PTH# 284576

Document Date: _____ Number of Pages: _____

Signature(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____ Title(s): _____

☐ Corporate Officer - Title(s): _____ ☐ Corporate Officer - Title(s): _____

☐ Individual ☐ Individual

☐ Partner - () Limited () General ☐ Partner - () Limited () General

☐ Attorney in Fact ☐ Attorney in Fact

☐ Trustee ☐ Trustee

☐ Guardian or Conservator ☐ Guardian or Conservator

☐ Other: _____ ☐ Other: _____

Signer is Representing: _____ Signer is Representing: _____

On 17th Jan 2012 before me, Tahira Bhatti, a Notary Public in and for said State, personally appeared, Archib Davidson Thompson, who proved to me the basis of satisfactory evidence to be the person whose name is subscribed to me within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Tahira Bhatti

Notary Public for California
My Comm. Expires Feb 18, 2015

LUMINA SMAILI
Commission # 1817583
Notary Public - California
Orange County
My Comm. Expires Feb 18, 2015

CITY OF SAN DIEGO DEVELOPMENT SERVICES DEPARTMENT ENTITLEMENT & WIRELESS COMMUNICATION FACILITIES

APPROVED EXHIBIT "A" PROCESS 1 APPROVAL SCR

This is a Zoning Use Certificate approval. This does not replace any required construction permits. See approval notes within plan set for more details.

Project Number: 360085

Approval Date: 3/25/14

Signed (1st Sheet): _____

personally appeared: David A. Sandoval

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) was subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Signature]

Notary Public for California
My Comm. Expires May 9, 2015

FLESA DOLAN MORSE
Commission # 1825483
Notary Public - California
San Diego County
My Comm. Expires May 9, 2015

Through the information below is not required by law, it may prove valuable to persons relying on the document and I could prevent fraudulent removal and modification of this form to another document.

Description of Attached Document
Title or Type of Document: THP # 1878512, T-Mobile SD Zoo Project #

Document Date: December 10, 2012

Signature(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____ Title(s): _____

☐ Corporate Officer - Title(s): _____ ☐ Corporate Officer - Title(s): _____

☐ Individual ☐ Individual

☐ Partner - () Limited () General ☐ Partner - () Limited () General

☐ Attorney in Fact ☐ Attorney in Fact

☐ Trustee ☐ Trustee

☐ Guardian or Conservator ☐ Guardian or Conservator

☐ Other: _____ ☐ Other: _____

Signer is Representing: _____ Signer is Representing: _____

ORIGINAL

ORIGINAL

ORIGINAL

ORIGINAL

PROPOSED LEDGMENT

DEVELOPMENT SERVICES DEPARTMENT
RESOLUTION NO. CM-6294
NEIGHBORHOOD USE PERMIT NO. 1070513
T-MOBILE - SD ZOO, PROJECT NO. 284576

WHEREAS, THE CITY OF SAN DIEGO, Owner, and THE ZOOLOGICAL SOCIETY OF SAN DIEGO and T-MOBILE WEST CORPORATION, Co-Permittees, filed an application with the City of San Diego for a permit to install, construct, operate, and maintain a Wireless Communication Facility (WCF) (as described in and by reference to the approved Exhibits "A" and corresponding conditions of approval for the associated Permit No. 1070513);

WHEREAS, the project site is located at 2920 Zoo Drive in Balboa Park (unzoned);

WHEREAS, the project site is legally described as the portion of Pueblo Lot No. 1130 of the Pueblo Lands, according to map made by James Pascoe in 1870, and tiled in the Office of the County Recorder of San Diego County on November 14, 1921, as Miscellaneous Map No. 36, commonly known as the Ford Services Building, and dated, but not identified on Sheet 1 of that certain San Diego County Assessor's Map Book 760, Page 212, Parcel 45, which is mapped for assessment purposes only;

WHEREAS, on November 15, 2012 the City of San Diego, as Lead Agency, through the Development Services Department, made and issued an Environmental Determination that the project is exempt from the California Environmental Quality Act (CEQA) (Public Resources Code section 21090 et. seq.) under CEQA Guideline Section 15301 (Existing Facility) and there was no appeal of the Environmental Determination tiled within the time period provided by San Diego Municipal Code Section 112.0520;

NOW, THEREFORE, BE IT RESOLVED by the Development Services Department of the City of San Diego as follows:

That the Development Services Department adopts the following written Findings, dated December 10, 2012.

FINDINGS

Neighborhood Use Permit - Section 126.0205

- The proposed development will not adversely affect the applicable land use Plan;

The City of San Diego's General Plan (UD-15) requires that the visual impact of wireless facilities be minimized by concealing wireless facilities in existing structures or using screening techniques to hide or blend them into the surrounding area. The plan also calls for these facilities to be designed to be aesthetically pleasing and respectful of the neighborhood context.

WCF complies with the City's Land Development Code, Section 141.0420, Wireless Communication Facilities, as well as the requirements of the City's General Plan. The proposed WCF does not adversely affect the applicable land use plan.

- The proposed development will not be detrimental to the public health, safety, and welfare;

The Telecommunication Act of 1996 preempts local governments from regulating the "placement, construction and modification of wireless communication facilities on the basis of the environmental effects of Radio Frequency (RF) emissions to the extent that such facilities comply with the Federal Communication Commission's (FCC) standards for such emissions." The proposed project would be consistent with the FCC's regulations for wireless facilities. To insure that the FCC standards are being met, T-Mobile has submitted an RF study to demonstrate compliance with the applicable FCC regulations. Therefore, based on the above, the project would not result in any significant health or safety risks to the surrounding area within matters of the City's jurisdiction.

- The proposed development will comply with the regulations of the Land Development Code including any allowable deviations pursuant to the Land Development Code.

WCFs are required to blend in and camouflage with areas where they are proposed. In this case, the antennas are located on the roof of an existing Zoo feed services building, behind a radio-frequency transparent screening element. Equipment associated with the antennas is located adjacent to the building. Existing vegetation and fencing act to screen and integrate the antennas with the surrounding park and zoo development. WCF are permitted in dedicated parkland with the proceeding of a Process 1, Neighborhood Use Permit (NUP). The design of this facility complies with the applicable regulations of the Land Development Code and no deviations are being requested. Therefore, based on these considerations this project complies with the regulations of the Land Development Code.

BE IT FURTHER RESOLVED that, based on the findings hereinbefore adopted by the Development Services Department, NEIGHBORHOOD USE PERMIT NO. 1070513 is hereby GRANTED by the Development Services Department to the referenced Owner/Permittees, in the form, conditions, terms and conditions as set forth in Permit No. 1070513, a copy of which is attached hereto and made a part hereof.

Signature: Alexander Hempton
Development Project Manager
Development Services

dated on: December 10, 2012



THE CITY OF SAN DIEGO

March 25, 2014

Approval Type: _____ Substantial Conference Review (SCR)
Project #284576
Approval #1070513 (NUP)
Expires: 12/10/2022

SCR Approval No: 1259739
SCR Project Name: T-Mobile - SD Zoo SCR #2
SCR Project No: 360085
Site Address: 2920 Zoo Dr

The Development Services Department has approved a Process 1 SCR was determined to be consistent with the objectives, standards, and the previously approved Permit

The approved modifications include adjusting the location of the site transparent screening. The requested changes to the previously approved project have been determined to be consistent with the general intent, previous approval (identified above) as well as any other applicable standards and guidelines of the Municipal Code in effect for this site, relevant conditions and findings of approval as specified in the previous full effect for this site, unless otherwise specified by the Development

Signature: Alex Hempton
Alex Hempton, AICP
Development Project Manager

not replace any required construction permits. See approval notes within plan set for more details.

Project Number: 360085

Approval Date: 3/25/14

Signed (1st Sheet):

APPROXIMATE LOCATION OF BOUNDARY OF 100'

(S) SKYWAY WEST TRAMWAY BLDG

PARK WAY

GIGANT PANDA'S

ALBERT'S RESTAURANT

REPTILE HOUSE

WEGEFORTH BOWL

SYDNEY'S SHOPPE

ROOSEVELT MIDDLE SCHOOL

100 DRIVE

TO NEAREST SCHOOL

(S) SKYWAY TRAM CABLEWAY AND TOWERS

EXISTING WROUGHT IRON FENCE

04 04 NEW COX CABLE TRAY EXTENDED TO NEW ANTENNA ENCLOSURE, ANCHORED TO (E) ROOF

EXISTING BUILDING

EXISTING COAX CABLE TRAY ROUTED TO ANTENNA SECTOR, REF.

EXISTING T-MOBILE EQUIPMENT CABINETS TO REMAIN

ANTENNA ENCLOSURE FRAMED ON (E) BUILDING ROOF

EXISTING BUILDING BEYOND

CITY OF SAN DIEGO DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS-WIRELESS COMMUNICATION FACILITIES

APPROVED EXHIBIT "A"
PROCESS 1 APPROVAL

This is a Zoning Use Certificate approval. This does not replace any required construction permits. See approval notes within plan set for more details.

Project Number: 3600 85

Approval Date: 3/25/14

Signed (1st Sheet):

02 NEW T-MOBILE REPLACEMENT ANTENNAS, (6) TOTAL

01 EAST ELEVATION

SCALE: 1/4" = 1'-0"

01 NEW FRP SCREEN WALL AND ANTENNA ENCLOSURE, COLOR TO MATCH (E) BUILDING

02 NEW T-MOBILE REPLACEMENT ANTENNAS, (6) TOTAL

04 04 NEW COX CABLE TRAY EXTENDED TO NEW ANTENNA ENCLOSURE, ANCHORED TO (E) ROOF

EXISTING BUILDING, REF.

EXISTING BUILDING ROOF, REF.

EXISTING CMU BRICK WALL AT ENTRY, REF.

EXISTING COAX CABLE COVER ANCHORED TO WALL, REF.

EXISTING T-MOBILE EQUIPMENT CABINETS

03 NORTH ELEVATION

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

NEW STRUCTURAL SUPPORT BEAM AND TO (E) CMU WALL PARAPET, PLACED (SEE STRUCTURAL SHEET S-10)

EXISTING STRUCTURE

EXISTING BUILDING BEYOND, REF.

02 NEW FRP SCREEN & ENCLOSURE, COLOR BUILDING

NEW STRUCTURAL SUPPORT BEAM ANCHORED TO (E) CMU WALL PARAPET, PLACED DIAGONALLY (SEE STRUCTURAL SHEET S-10)

EXISTING ROOF BUILDING STRUCTURE, REF.

NEW ANTENNA ENCLOSURE FRAMING
PER PLAN PAINTED TO MATCH
(E) BUILDING

(E) ROOF PARAPET, REF.

CITY OF SAN DIEGO DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENT'S WIRELESS COMMUNICATIONS DIVISION

APPROVED EXHIBIT "A"

PROCESS 1 APPROVAL *SLR*

This is a Zoning Use Certificate approval. This does
not replace any required construction permits. See
approval notes within plan set for more details.

Project Number:

36000 85

Approval Date:

3/25/14

Signed (1st Sheet):

NOTE:
GROUNDING WIRE TO BE
A CONTINUOUS LOOP

GALV. STEEL CLIP ANGLE
ATTACH COVER TO
SLEEPER WITH 3/8" X
1-1/4" MACHINE BOLTS
COMPLETE WITH WASHERS

INSULATED GROUND
WIRE CONNECTING EACH
COAX. CABLE COVERS
#2 GREEN INS.

4" SQ. PVC SLEEPER AT
INTERSECTIONS WHERE
CABLE SPAN EXCEEDS 2'-8".

11 GA. GALVANIZED STEEL
CABLE COVER/BRIDGE

COAX. CABLES REFER
CONSTRUCTION MANUAL
FOR SIZE

4" SQ. PVC SLEEPER

3/8" ROOF PAD IN PLACE
INSULATED GROUND WIRE
FROM ANTENNA'S BUS
3/4" DIA. HOLES FOR
SNAP-IN COAX. CABLE

04

COAX CABLE TRAY ON ROOF DETAILS

SCALE: 1" = 1'-0"

CLOSURE - SECTION

02

02

01

01

NEW ANTENNA ENCLOSURE
FRAMING PER PLAN

03

03

NEW MICROWAVE
DISH ANTENNA

(E)

ROOF PARAPET

NEW STRUCTURAL SUPPORT BEAM ANCHORED TO
(E) CHU HALL PARAPET, PLACED DIAGONALLY.
SEE STRUCTURAL SHEET 0/5-101

NEW STRUCTURAL SUPPORT BEAM ANCHORED TO
(E) CHU HALL PARAPET, PLACED DIAGONALLY.
SEE STRUCTURAL SHEET 0/5-101

2" BRACING PER
STRUCTURAL PLAN
SEE SHEET 0/5-101

(E) ROOF PARAPET

NEW 2" Ø GALV. PIPE
ANTENNA SUPPORT, TYP.

2" BRACING PER
STRUCTURAL PLAN
SEE SHEET 0/5-101

NEW 2" Ø GALV. PIPE
ANTENNA SUPPORT, TYP.

LOWER BEAM ANTENNA
SUPPORT PER STRUCTURAL PLAN
SEE STRUCTURAL PLAN 0/5-101

NEW 2" Ø GALV. PIPE
ANTENNA SUPPORT, TYP.

4x4 FRP POST PER
STRUCTURAL PLAN
SEE SHEET 0/5-101

PROPOSED HAZARD FLOOR
STRIPING ON ROOF, SEE 0/1-A-401

EXISTING GRADE, REF.

(E) ROOF PARAPET

05

05

NEW 2" MICROWAVE
DISH

01

01

NEW FRP SCREEN WALL AND A
ENCLOSURE, COLOR TO MATCH

04

04

NEW COX
TO NEW
ANCHORE
PAINT TO

EXISTING BUILDING
ROOF, REF.

01

01

EXISTING ROOF FRAMING STRUCTURE, REF.
SEE STRUCTURAL ANTENNA ENCLOSURE

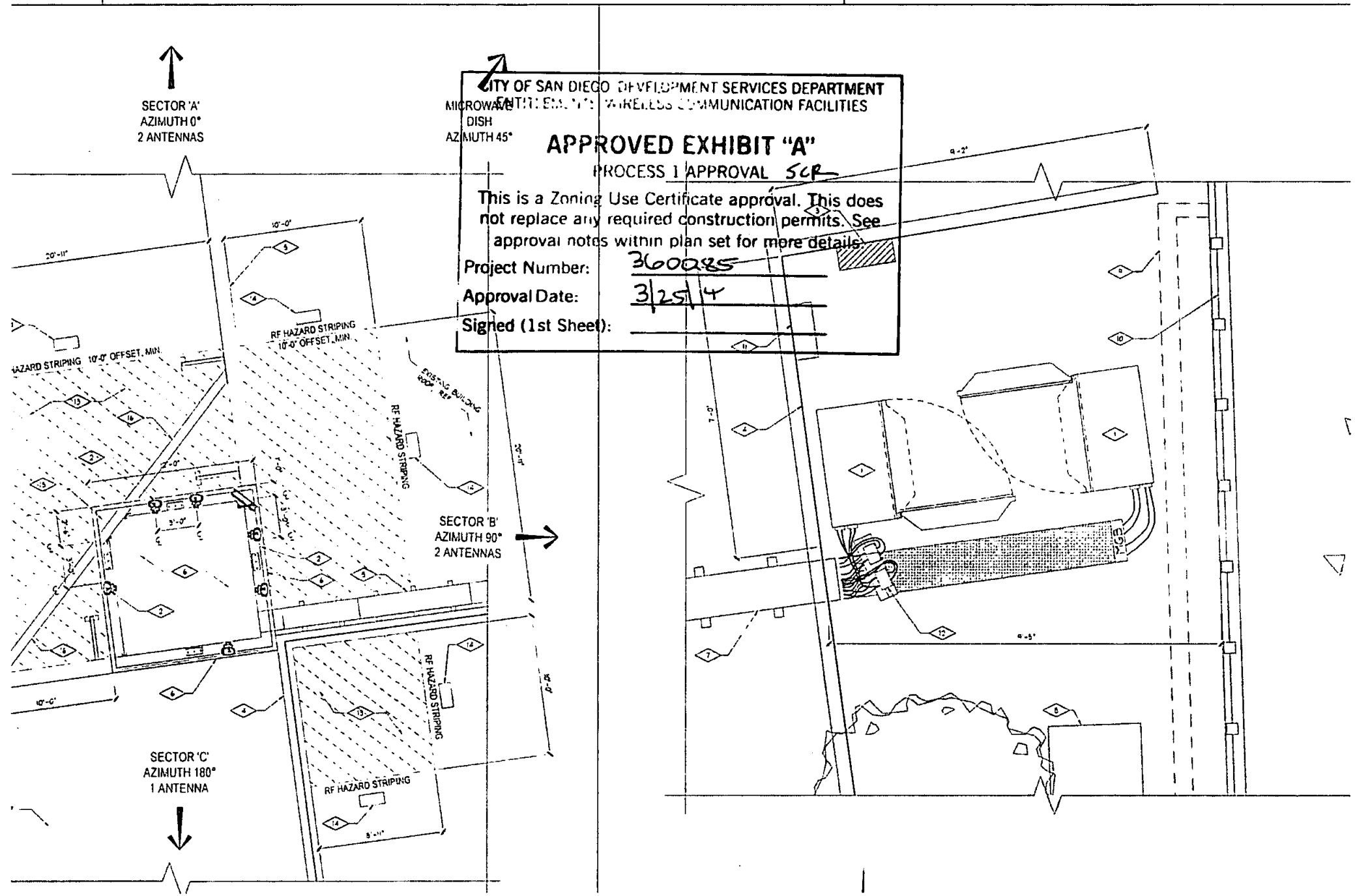
TERS TO
OF THE
TY
B IN
E IN THE

- 5 EXISTING CABLE TRAY TO BE EXTENDED TO NEW ANTENNA ENCLOSURE
- 6 NEW FRP SCREEN ENCLOSURE
- 7 EXISTING COAX CABLE RUN
- 8 EXISTING GAS METER & VALVES
- 9 EXISTING BURIED CURB
- 10 EXISTING WROUGHT IRON FENCE

- 11 NEW 2' DIAMETER MICROWAVE DISH
- 12 NEW STRUCTURAL SUPPORT BEAM ANCHORED TO (E) CMU WALL PARAPET, PLACED DIAGONALLY, REF

8	PIPING	1200/100/18FT	2 GAL
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NOTE: NO PROPOSED CHANGES TO EXISTING BATTERIES



Page 1 of 1

- Includes factory installed AISG RET actuator
- Fully compatible with Ancinet Teletail® remote control antenna system

ELECTRICAL

Frequency Range (MHz):	1710-2155
Characteristic Impedance (Ohms):	50
Asymtn BW (Deg):	64 ± 8
Elevation BW (Deg):	7.2 ± 1.2
Gain (dBd):	17.5 ± 0.8
Polarization:	±45°
Front-to-Back Ratio (dB)	3° 4° 6° 8° 10°
Cupol, 180° ± 30°	+24 +24 +24 +24 +24
Total Power, 180° ± 30°	+24 +23 +22 +23 +23
Upper Sideband (dB)	2° 4° 6° 8° 10°
Main Beam to +20°	+17 to +17 +15 +14 +11
VSWR / Return Loss (dB)	1.33 : 1 / 16.9
Port-to-Port Isolation (dB):	>32
Electrical Tilt Range (Deg):	2-10
Electrical Downlink Accuracy (Deg):	± 0.9
Cross pol. (dB):	3° 4° 6° 8° 10°
± 3 dB Beamwidth:	+13 +13 +12 +12 +12
Intermodulation Products (dBc)	
3rd Order, 2 x 20 Watts	155
Max. Input Power (Watts):	250
Lightning Protection:	DC Ground

PERFORMANCE TRACKING

Gain Variation (dB) (between UL and DL frequency pair)	1.3
Electrical Tilt Accuracy (Deg) (between UL and DL frequency pair within 0.5°)	-0.55
Azimuth MPBW (Deg) (between UL and DL frequency pair)	11.8

MECHANICAL

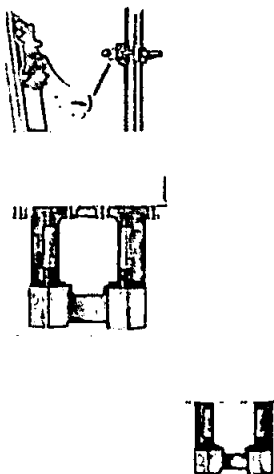
Net Weight (kg / lbs):	15.7 / 34.6
Dimensions—LxWxD: (inches/kilometers)	1490 x 307 x 162 mm 58 1/4 in. H x 8 3/8 in.
Max. Wind Area (m ² / ft ²):	0.27 / 2.9
Max. Wind Load (N / lbf):	729.4 / 164
Max. Wind Speed (m/min / mph):	211 / 155
Hardware Material:	Hot Dip Galvanized
Connector Type:	7-16 DIN. Fehrmann (4)
Color:	Oil White
Standard Mounting Hardware:	TMS000Y2A-2

Andrea Corporation
2601 Telecom Parkway
Richardson, Texas U.S.A. 75082-1521
Tel: 214 831 0312

Fax 214 688 0083
Toll Free Tel 1 800 676 5342
Fax 1 800 279 4706
www.a3three.com

12/14/2006
Page 1 of 3
www.dcp.state.tx.us

Information correct at time of issue but may be subject to change without notice.



FEATURES

- **Aeramax distasters**
 - 1' (30 cm)
 - 1.5' (45 cm)
 - 2' (60 cm)
 - 3' (90 cm)
 - 4' (120 cm)
- **Aeramax uprights**
 - 1' 17 lbs. (7.7 kg)
 - 1.5' 19 lbs. (8.6 kg)
 - 2' 27 lbs. (12.2 kg)
 - 3' 30 lbs. (13.5 kg)
 - 4' 35 lbs. (15.7 kg)
- **HIP models: high-performance, plate painted**
- **HIPD models: steel painted**
- **IEC or EIA Ranges available**
- **Flues mounting for PF also available**
- **Free of installation, extensive shipped completely assembled, minimal on-site repairs**
- **Plates robustness standard with high-performance model**
- **Rugged and lightweight cast aluminum arms with fine adjustment for both smooth and vibration**
- **Compact size, due to Patco Two maximum fire design**
- **In standard white, other colors at 50% higher available on request**
- **Corrosive resistant: coated aluminum, hot dipped galvanized steel and stainless steel**
- **Two year warranty**



17.7 - 19.7 GHz ELECTRICAL SPECIFICATIONS (TYPICAL PERFORMANCE)

Model Number	Diameter R (cm)	Gain, dB		High	Beamwidth Degrees, 3dB	X Pol. Disc., dB	FID Ratio, dB
		Low	Mid				
Plane Polarized							
HP-113	1.100	33.5	34.0	24.4	3.0	37	53
HP-113-18	1.125	33.7	34.1	26.7	2.8	38	54
HP-118	1.125	34.4	34.8	27.0	2.7	38	54
HP-118	1.100	41.0	37.0	24.4	1.7	32	52
HP-118	1.125	40.1	41.5	24.9	1.0	30	72
Dual Polarized							
HP-111-14	1.125	31.4	31.8	24.7	2.0	36	43
HP-113-12	1.125	35.5	35.0	25.5	2.0	37	58
HP-118	1.063	34.6	34.4	25.8	2.0	37	58
HP-118	1.100	41.4	37.4	24.4	1.3	32	52
HP-118	1.125	40.4	41.4	24.7	1.0	30	72

* All stock prices quoted in dollars without cents.

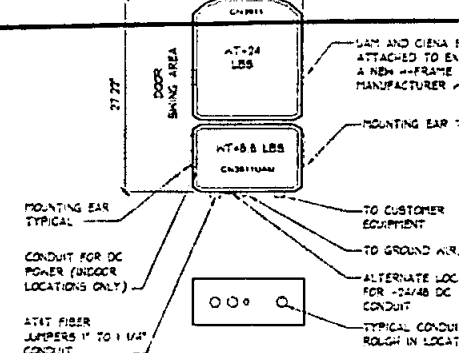
CITY OF SAN DIEGO DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS WIRELESS COMMUNICATIONS

~~DISB~~
~~APPROVED EXHIBIT "A"~~

PROCESS 1 APPROVAL SC

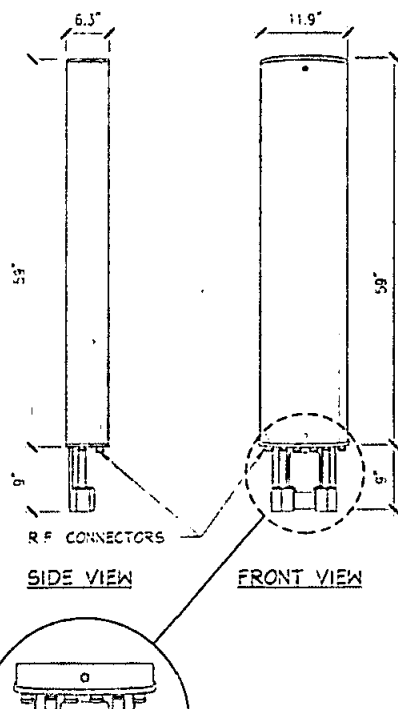
**This is a Zoning Use Certificate approval.
not replace any required construction per
approval notes within plan set for more**

Project Number: 3600085
Approval Date: 3/25/14
Signed (1st Sheet):

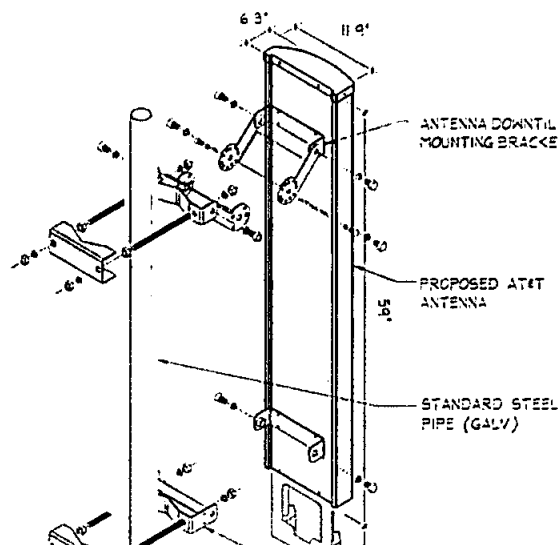


REPLACEMENT ANTENNA DETAIL

02 REF
SCALE: N.T.S.



ANTENNA MODEL: TMBXX-6516-R2M
WEIGHT: 34.6 LBS (15.7 Kg)
POWER SUPPLY 10-30V



MICROWAVE DISH

SCALE: N.T.S.

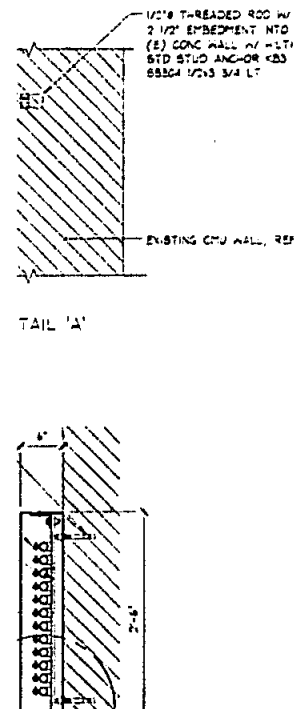
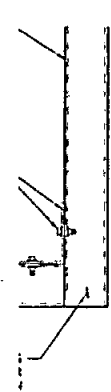


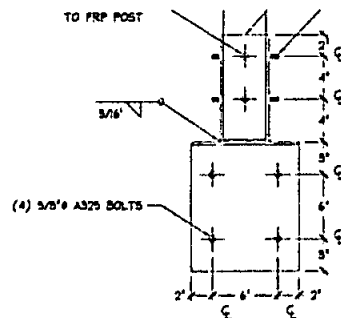
TABLE 1

4" SQ. INTERIOR
FRP POST

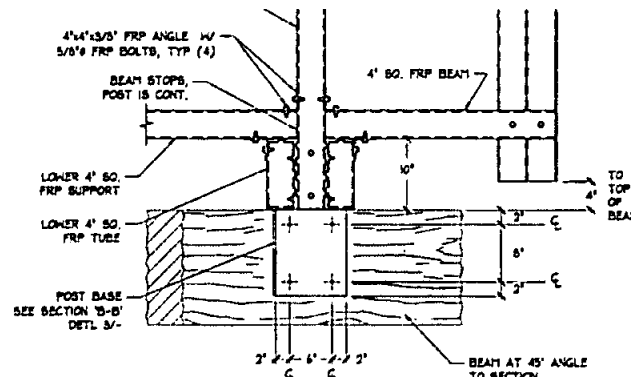
6"x6"x1/8" FRP ANGLE
W/ (2) 1/2" FRP BOLTS



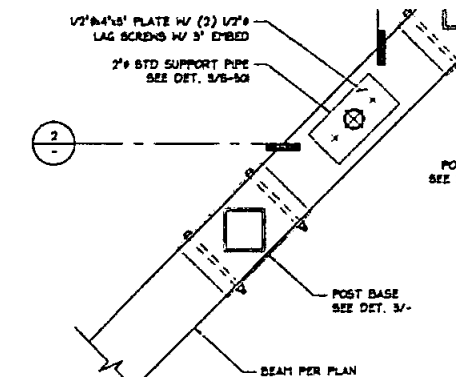
N VIEW



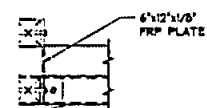
3 POST TO BEAM - SECTION 'B-B'
SCALE: 1 1/2" = 1'-0"



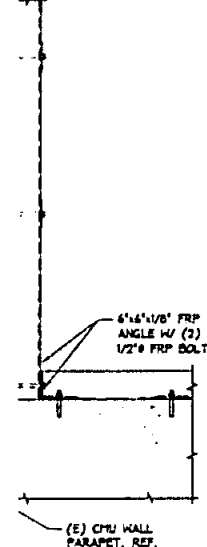
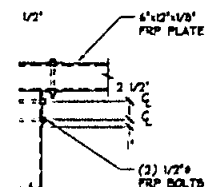
2 POST TO BEAM CONNECTION
SCALE: 1" = 1'-0"



1 POST TO BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"



N VIEW



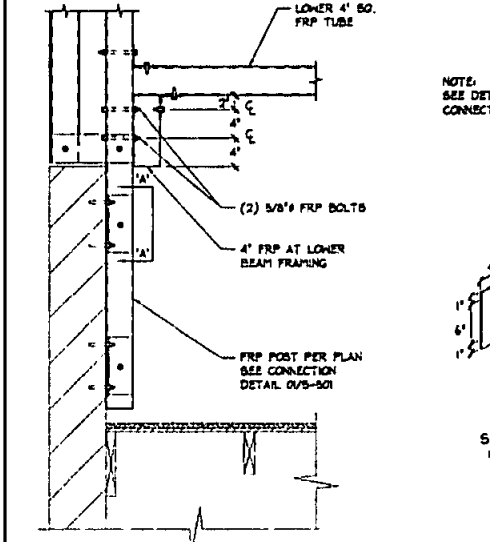
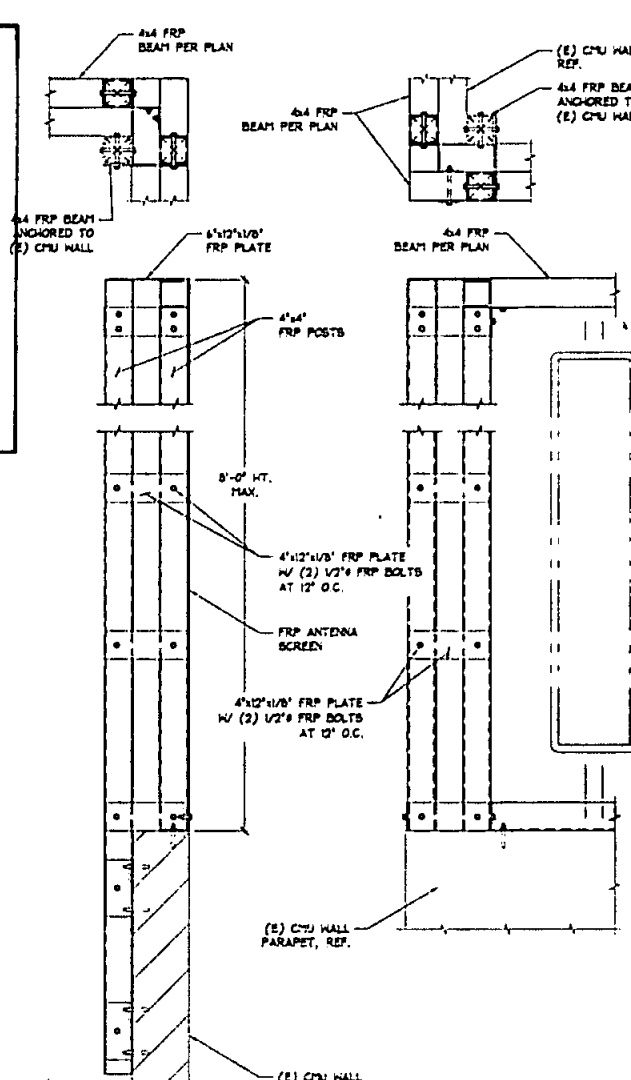
CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS: WIRELESS COMMUNICATION FACILITIES

APPROVED EXHIBIT "A"
PROCESS 1 APPROVAL *SCR*

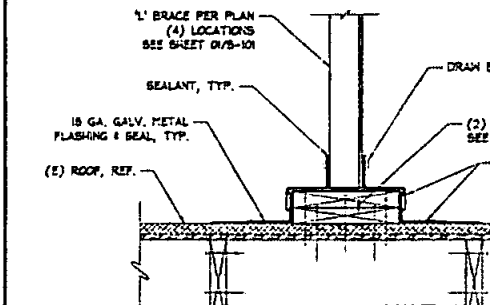
This is a Zoning Use Certificate approval. This does not replace any required construction permits. See approval notes within plan set for more details.

Project Number: 360085
Approval Date: 3/25/14
Signed (1st Sheet): _____

7 NOT USED
SCALE: 3/4" = 1'-0"



5 CORNER POST AT (E) CN
SCALE: 1" = 1'-0"



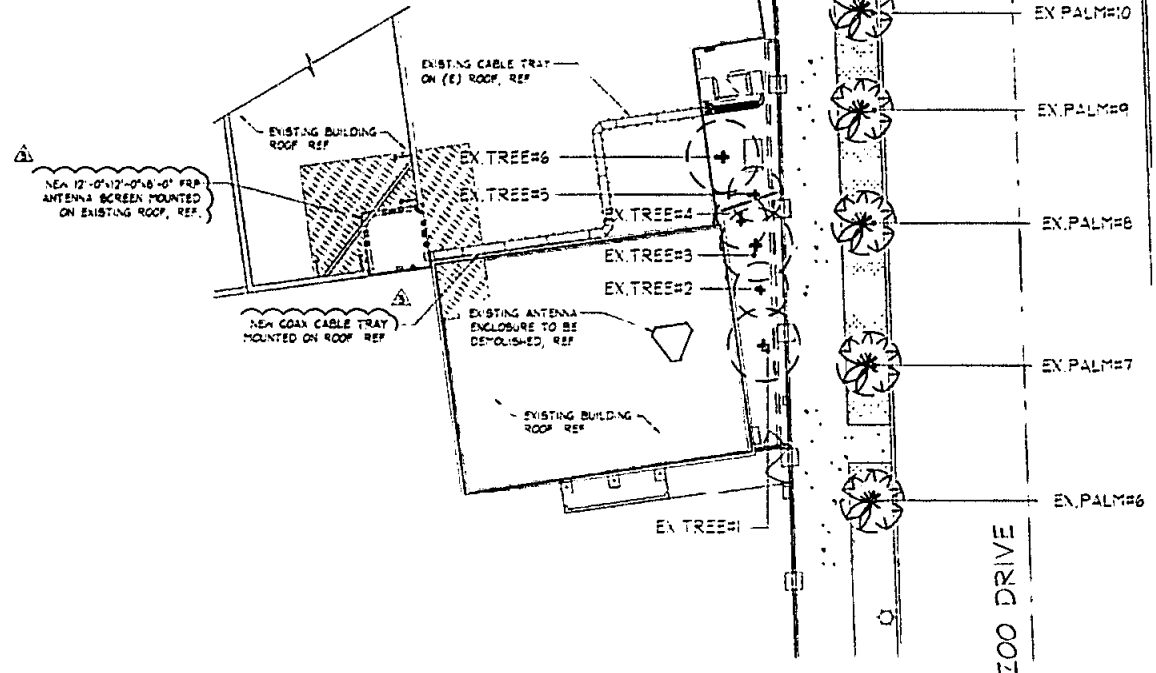
CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENTS-WIRELESS COMMUNICATION FACILITIES

APPROVED EXHIBIT "A"

PROCESS 1 APPROVAL *SCR*

This is a Zoning Use Certificate approval. This does not replace any required construction permits. See approval notes within plan set for more details.

Project Number: 300085
Approval Date: 3/25/14
Signed (1st Sheet): _____



CONFORM TO THE STANDARDS OF THE CITY WIDE LANDSCAPE REGULATIONS
DEVELOPMENT MANUAL LANDSCAPE STANDARDS AND ALL OTHER LANDSCAPE RELATED

1ST TREE
T
(10' FOR SEWER)
FEET

5 OF TWO STREETS) - 25 FEET

AS THAT WILL NOT BE PERMANENTLY PAVED OR COVERED BY STRUCTURES
AND IRRIGATED AS SHOWN IN TABLE 142.04F AND IN ACCORDANCE WITH THE
MANUAL 142.04H(e):

LY CONTROLLED IRRIGATION SYSTEM SHALL BE PROVIDED AS REQUIRED
AND MAINTENANCE OF THE VEGETATION IN A HEALTH, DISEASE-RESISTANT CONDITION
DE ADEQUATE SUPPORT FOR THE VEGETATION SELECTED. EXISTING IRRIGATION BUBBLER
MAIN.

AREAS SHALL BE MAINTAINED BY EXISTING HOME OWNER
PUBLIC ROW SHALL BE MAINTAINED BY HOME OWNER
CLEANED FREE OF DEBRIS AND LITTER AND ALL PLANT MATERIAL SHALL BE
REMOVAL. DISEASED OR DEAD PLANT MATERIAL SHALL BE SATISFACTORY
ENDS OF THE PERMIT.

END:

	COMMON NAME	SIZE/HEIGHTS X SPREADXCA (CALIPER)	CONDITION	REMARKS
	EUCALYPTUS SPECIES	30'WIDEX45'TALLX24"CA	GOOD	EXISTING TO REMAIN
	EUCALYPTUS SPECIES	10'WIDEX40'TALLX16"CA	GOOD	EXISTING TO REMAIN
	EUCALYPTUS SPECIES	10'WIDEX35'TALLX8"CA	GOOD	EXISTING TO REMAIN
	EUCALYPTUS SPECIES	10'WIDEX30'TALLX12"CA	GOOD	EXISTING TO REMAIN
	EUGENIA	30'WIDEX30'TALLX5HRUB FORM	GOOD	EXISTING TO REMAIN
	BOTTLE BRUSH TREE	10'WIDEX15'TALLX5HRUB MASSING	GOOD	EXISTING TO REMAIN
ANUM	QUEEN PALM	30'B.T.H.	AVERAGE	EXISTING TO REMAIN
ANUM	QUEEN PALM	30'B.T.H.	AVERAGE	EXISTING TO REMAIN
ANUM	QUEEN PALM	30'B.T.H.	AVERAGE	EXISTING TO REMAIN
ANUM	QUEEN PALM	30'B.T.H.	AVERAGE	EXISTING TO REMAIN
ANUM	QUEEN PALM	30'B.T.H.	AVERAGE	EXISTING TO REMAIN
ANUM	QUEEN PALM	30'B.T.H.	AVERAGE	EXISTING TO REMAIN



01 LANDSCAPE INVENTORY PLAN
SCALE: 1/16"=1'-0"

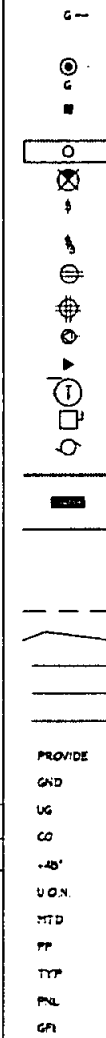
AND PERPENDICULAR TO
MAINTAIN HEADROOM AND TO

19. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE CODES.
20. IDENTIFICATION NAME PLATES SHALL BE MCARTA 1/8" INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4" INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCH BOARDS OR PANEL BOARDS, DISCONNECTION SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.
21. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE PLANS AND DETAILS, PRIOR TO INSTALLATION.
22. DRAWINGS ARE DIAGRAMMATIC ONLY, ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.
23. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DIRECT BURIED PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE AND SHALL BE CONCRETE ENCASED UNLESS NOTED OTHERWISE. RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL HEIGHT THREADED TYPE AND SHALL ONLY BE USED WHEN REQUIRED BY PERMITTING AUTHORITY. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS.
24. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAIN TIGHT THREAD LESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR INDENTURE TYPES ARE NOT ACCEPTABLE. SET SCREW TYPE IS NOT ACCEPTABLE. RIGID STEEL CONDUIT FITTINGS INCLUDING COUPLINGS, LOCK NUTS, NIPPLES, ETC. SHALL BEAR THE "L" LABEL AND SHALL BE THREADED AND THOROUGHLY GALVANIZED EXCEPT WHERE AN ADAPTER IS NEEDED IS NEEDED TO CONNECT TO PVC.
25. ALL TELCO CONDUIT INSTALLATIONS AND OTHER CONDUIT RUNS AND SHALL INCLUDE A YELLOW 5/8" POLYPROPYLENE PULL STRING WITH MINIMUM 200 POUNDS OF PULLING TENSION.
26. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THERMOPLASTIC, 90 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID, CONDUCTORS #10 AWG AND LARGER SHALL BE STRANDED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY.
27. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETED, NONFERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL, CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.
28. ALL OUTDOOR ELECTRICAL DEVICES OR EQUIPMENT SHALL BE OF WEATHERPROOF TYPE.
29. ALL EQUIPMENT, MONOPOLE, FRAME, CABLE TRAY AND ANTENNA GROUND WIRE CONNECTIONS TO GROUND BUSSES SHALL BE MADE WITH CRIMP TYPE COMPRESSION CONNECTIONS TO CONNECTORS (MINIMUM 2 HOLE LUGS WITH FULL BOLTING). BUSS SHALL BE PRE-DRILLED TO ACCOMMODATE ALL CONNECTORS.
30. ALL GROUNDING SHALL BE PER CEC, SECTION 750 AND 810 AND.
31. ALL GROUND WIRE CONNECTIONS BETWEEN GROUND BUSSES AND OTHER GROUND BUSSES AND GROUND RODS SHALL BE CACHED.
32. ALL METALLIC GROUND WIRE CONDUIT SHALL BE GROUNDED TO THE GROUND WIRE USING SET SCREW CONNECTIONS AT CONDUIT END CAPS AND CRIMP CONNECTIONS AT WIRE.
33. COAT ALL BOLTED LUG AND BUSS GROUND CONTACT SURFACES WITH KOPR-SHIELD, NG-OX, OR EQUAL PRIOR TO ATTACHMENT.
34. MAIN FUSES SHALL BE RATED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING A.I.C.
35. ALL EQUIPMENT SHALL BE UL LISTED.
36. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING FROM UTILITY COMPANY.
37. ALL CORING CLEARANCES SHALL BE FIELD VERIFIED AND ALL CONDUIT ROUTING SHALL BE COORDINATED WITH PROPERTY OWNERS REPRESENTATIVE.
38. ALL CONNECTIONS TO EXISTING MAIN SWITCH GEAR INCLUDING "BUS-TAPS" AND/OR "HOT-TAPS" REQUIRE CERTIFICATION AND APPROVAL. FABRICATION AND CERTIFICATION SHALL BE FURNISHED BY A CONTRACTOR APPROVED BY THE APPLICABLE UTILITY.
39. CONTRACTOR SHALL COORDINATE WORK WITH UTILITY COMPANIES FOR FINAL AND EXACT WORK AND MATERIAL REQUIREMENTS. CONSTRUCT TO UTILITY COMPANIES ENGINEERING PLANS AND SPECIFICATIONS ONLY.
40. ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE AT&T WIRELESS PROJECT MANAGER AT THE COMPLETION OF WORK.

5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FACILITIES AS SHOWN AND
DETAIL ON THE PLANS.
4. CONDUIT SPECIFICATIONS SHALL BE AS FOLLOWS:
 - a. GENERAL : ALL TELEPHONE SERVICE CONDUIT SHALL RUN FROM POLE, VAULT,
PULL-BOX, MANHOLE OR OTHER POINT OF CONNECTION ESTABLISHED BY AT&T
WIRELESS SPOC AND SHALL RUN CONTINUOUS TO AN EDGE OF THE TELEPHONE
TERMINAL BACKBOARD (OR PANEL).
 - b. UNDERGROUND CONDUIT AND BENDS SHALL BE MINIMUM 2" DIAMETER SCHEDULE 40
PVC. TRENCH DEPTH SHALL PROVIDE FOR MINIMUM 24" COVER OVER CONDUIT.
CONDUIT RUN SHALL BE NO MORE THAN 150 FEET IN LENGTH OR HAVE NO MORE
THAN (2) 90° BENDS (OR EQUIVALENT) BETWEEN PULL BOXES.

PULL BOXES SHALL BE 17" X 30" X 15" DEEP CONCRETE BOXES WITH DEPTH
EXTENSIONS AND CONCRETE BOLT DOWN COVERS. STEEL COVERS SHALL BE
PROVIDED WHERE BOX IS EXPOSED TO VEHICULAR TRAFFIC.
 - c. ABOVE GROUND CONDUIT AND CONDUIT INSIDE BUILDINGS SHALL BE 2" DIAMETER
EFT WITH FITTINGS AS NOTED IN ELECTRICAL NOTES. PROVIDE A UL APPROVED 12"
HIGH 12" WIDE X 6" DEEP WEATHER RESISTANT NEMA 3R RATED PULL BOX ON ALL
ABOVE GRADE CONDUIT RUNS AT INTERVALS NOT EXCEED 150 FEET OR (2) 90°
BENDS (OR EQUIVALENT).
 - d. OVERHEAD EXTERIOR FEEDS SHALL BE 2" DIAMETER RIGID GALVANIZED CONDUIT
WITH A WEATHER HEAD OF A TYPE AND AT A HEIGHT APPROVED BY AT&T
WIRELESS SPOC (MINIMUM 20 FEET ABOVE FINISHED GRADE).
5. A MINIMUM 3/8" YELLOW POLYPROPYLENE PULL ROPE SHALL BE INCLUDED IN EVERY
CONDUIT,
6. PROVIDE A UL APPROVED 30" WIDE X 36" HIGH X 4" DEEP WEATHER RESISTANT
NEMA 3R RATED METAL TELEPHONE CABINET AT TERMINATION OF THE TELEPHONE
SERVICE AT THE BTS UNIT. THE CABINET SHALL CONTAIN A 5/4" THICK PLYWOOD
BACKBOARD AND SHALL HAVE FULL HINGES AND LOCKABLE DOORS.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A NEW 120V RECEPTACLE AT THE
TELEPHONE TERMINAL BACKBOARD.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A #6 SOLID INSULATED COPPER
GROUND WIRE FROM A GROUND SOURCE APPROVED BY AT&T SPOC. MINIMUM
STANDARD SOURCE SHALL BE A 3/8" DIAMETER X 8'-0" LONG COPPER CLAD STEEL
GROUND ROD.
9. ALL INSIDE WIRE RUNS SHALL BE (2) #22 GAUGE SHIELDED WIRE AS APPROVED
AND RATED FOR AT&T WIRELESS AND THE FCC. INSIDE WIRE LINES SHALL BE
TERMINATED AND IDENTIFIED BY UNIT NUMBER ON THE 66 BLOCK LOCATED ON THE
TELEPHONE TERMINAL BACKBOARD.

MINIMUM OUTLINE SPECIFICATIONS	
DESCRIPTION	REQUIREMENT
CONDUIT	- 1'-2" DUCTS OF APPROVED MATERIAL - ELECTRO-METALLIC TUBING (EMT) - USE MOUNTING STRAPS FOR SECURING CONDUIT TO BUILDING STRUCTURE UNISTRUT TO BE USED ONLY WHEN ABSOLUTELY NECESSARY - RIGID GALVANIZED STEEL (ONLY WHEN ABSOLUTELY REQUIRED BY THE GOVERNMENT PERMITTING AUTHORITY) - PVC SCHEDULE 40 DIRECT BURIAL OR EQUIVALENT - 1 1/2" CONDUIT FROM SERVICE BOX TO PLINTH FOR PLACEMENT OF SHIELDED CABLE, WITH 1 PULL ROPE - MAXIMUM OF 3-40 DEGREE SWEEP RADIUS BENDS OR PULL/SPLICE BOXES REQUIRED - PULL LINES IN ALL DUCTS (MINIMUM 200 POUNDS PULLING TENSION) - FIRE STOPPING REQUIRED WHEN OPENINGS ARE MADE IN ANY FIRE RATED BARRIER (HALLS, FLOORS AND CEILINGS) AND MUST CONFORM TO LOCAL BUILDING CODES - FOR GREEN FIELD, THE DIMENSION OF THE SPLICE BOX SHOULD BE 17" X 30", WITH NO SECTION OF CONDUIT GREATER THAN 300 FEET OR PULL/SPLICE BOX IS REQUIRED
TRENCHING	- MAY BE REQUIRED ON GREEN FIELD WIRE - MINIMUM COVERAGE OF DUCTY TO PROPERTY LINE = 24" - MAXIMUM COVERAGE OF DUCTY TO PROPERTY LINE = 24" - FOR JOINT TRENCH CONSTRUCTION, MINIMUM SEPARATION OF 12" REQUIRED BETWEEN TELCO AND POWER
SERVICE BOX	- MINIMUM DIMENSIONS = 30" WIDE 36" HIGH 4" DEEP - 3/4" PLYWOOD BACKBOARD MOUNTED IN SERVICE BOX - 36" CLEARANCE FROM GROUND LEVEL TO BOTTOM OF CABINET - FULL ACCESS FROM FRONT OF CABINET - MUST BE WATER RESISTANT - GALVANIZED STEEL BOX PAINTED IN AND OUT - CONDUIT KNOCKOUTS IN BOX
GROUNDING AT SERVICE BOX	- MINIMUM #6 AWG COPPER WIRE
POWER	- AVAILABILITY OF 110V AC DUPLEX OUTLET FOR USE OF POWER TOOLS, TEST SETS, ETC.
FACILITIES	- STATION PROTECTION REQUIRED DUE TO EXPOSURE OF CABLE TO POWER POTENTIAL ON ROOFTOPS/GREEN FIELDS - CABLE ENTRANCES MUST BE BONDED - PROTECTORS MUST BE GROUNDED TO AN ACCEPTABLE GROUNDING SYSTEM - METAL FRAME OF A BUILDING WHERE THE FRAME IS EFFECTIVELY GROUNDED



2" BARE TUNED SOLID COPPER WIRE
 WIRE SHALL BE 10' MIN. BELOW GRADE.
 5/8" X 8" COPPER CLAD STEEL GROUND ROD WITH TEST WELL.
 MECHANICAL CONNECTION
 (DOUBLE LUG CONNECTORS)
 FLUORESCENT FIXTURE
 EXIT SIGN - UNIVERSAL MTD W/ BATTERY BACKUP
 SINGLE POLE SINGLE THROW WALL TOGGLE SWITCH MTD @ +48" (1)
 OUTLET CONTROLLED)
 B₃ - THREE WAY
 DUPLEX RECEPTACLE MTD @ +15" U.O.N. (120V -250-3W)
 DOUBLE DUPLEX RECEPTACLE MTD @ +15" U.O.N. (120V -20A-3W)
 SPECIAL USE RECEPTACLE (AS NOTED ON PLAN)
 TELEPHONE OUTLET MTD +15" U.O.N.
 THERMOSTAT
 HEAVY DUTY DISCONNECT SWITCH
 EXHAUST FAN
 TELEPHONE BACKBOARD 4' X 8' X 3/4" PLYWOOD
 BRANCH CIRCUIT PANELBOARD
 CONDUIT RUN CONCEALED IN WALLS OR CEILINGS
 ————— 2#12-1/2" U.O.N. ————— 5#12-3/4", U
 ———— III ———— 3#12-3/4" U.O.N. ———— III ———— 6#12-1", U
 ———— III ———— 4#12-3/4" U.O.N. ———— IIIIIII ———— 7#12-1", U.O
 CONDUIT RUN BELOW GRADE
 CONDUIT OVER FLOOR JOISTS AND BREAKERS INDICATED
 CONDUIT STREET SIDE
 CONDUIT R-SET
 CONDUIT R-SET DOWN
 CITY OF SAN DIEGO DEVELOPMENT
 ENTITLEMENT'S WIRELESS C

APPROVED
PROCESS 1

FURNISH, INSTALL AND CONNECT
GROUND

UNDERGROUND
CONDUIT ON
HEIGHT TO BE SPECIFIED BY
UNLESS OTHERWISE NOTED

MAINTAIN
POWER POLE

TYPICAL
PANEL

GROUNDED

This is a Zoning Use Certificate
not to be placed any required c
approval notes within pl

Project Number: 3600

Approval Date: 3/29

Signed (last sheet):

GROUNDING NOTES

ALL DETAILS ARE SHOWN DIAGRAMMATIC. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.

ALL EXTERIOR GROUNDING AND TOP OF GROUNDING RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 1'-6" BELOW FINISH GRADE, ELECTRIC METER GROUND ROD EXCEPTED.

ALL #2 GROUNDING CONDUCTORS SHALL BE SOLID TINNED BARE COPPER, AND ALL #6 CU GROUNDING CONDUCTORS SHALL TO BE GREEN INSULATED.

GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS. SUBMIT AN INDEPENDENT 'FALL POTENTIAL' TESTING REPORT.

NOTIFY CONSTRUCTION ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING
GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROD OR APPROVED EQUAL, WHEN REQUIRED.

ALL UNDERGROUND GROUNDING CONNECTIONS ARE TO BE CAD WELDED ABOVE GRADE. GROUNDING SHALL BE EITHER CAD WELD OR SPLIT BOLT CONNECTORS AS SPECIFIED ON DRAWINGS.

GROUNDING INSTALLATION TO BE IN ACCORDANCE WITH THE MOTOROLA R56
STANDARD AND CONSTRUCTION CONTRACT SPECIFICATIONS.

APPROVED EXHIBIT "A" SCR
PROCESS 1 APPROVAL

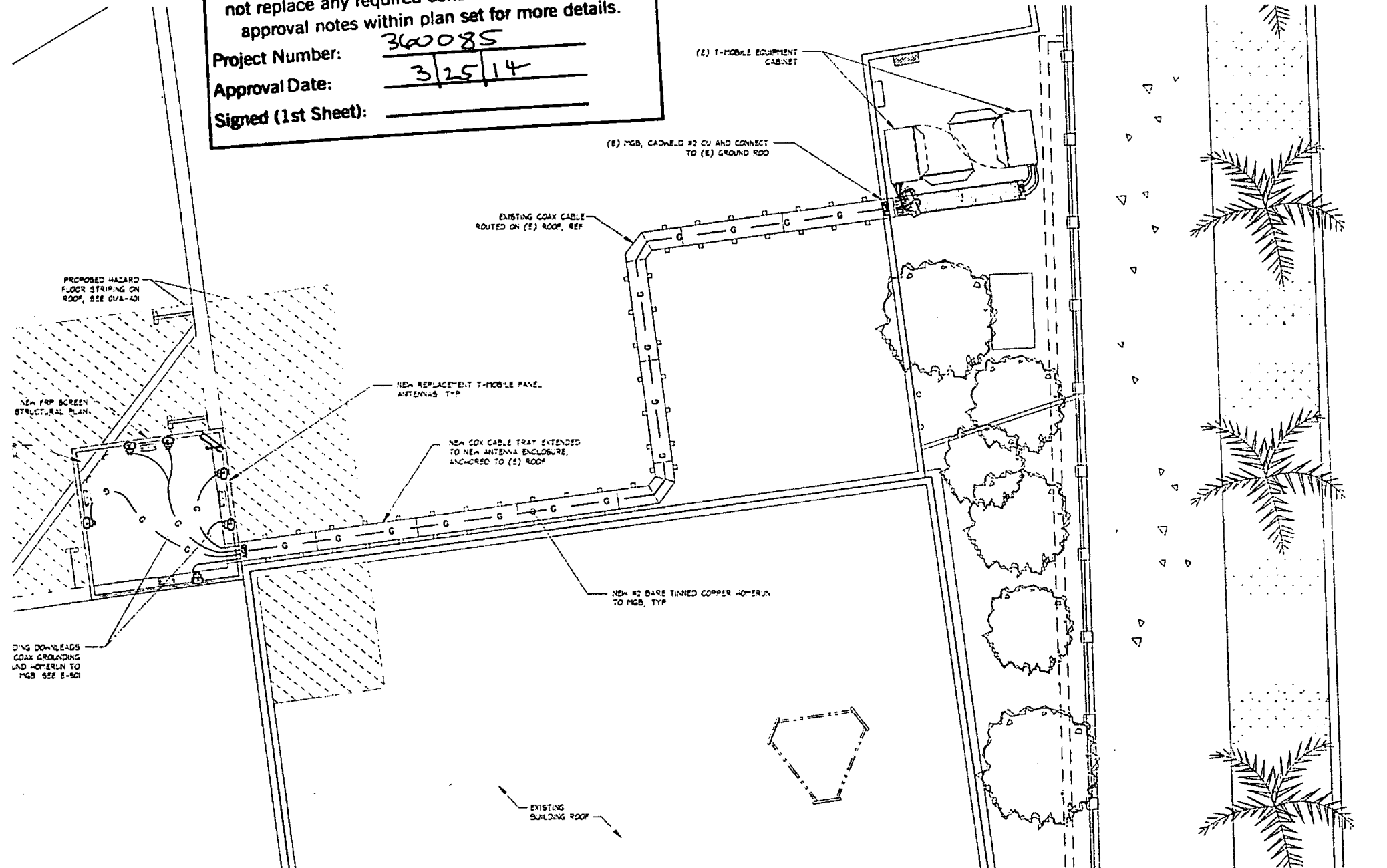
Project Number: 360085
Approval Date: 3/25/14
Signed (1st Sheet):

▶ EXOTHERMIC WELD (CADDWELD)

G.— EXTERNAL GROUND RING
#2 BARE TINNED BID COP
WIRE SHALL BE 1/2 IN. DIA

(a)
G 5/8" X 8" COPPER CLAD STE
WITH TEST HELL

■ MECHANICAL CONNECTION
(DOUBLE LUG CONNECTORS)



CITY OF SAN DIEGO-DEVELOPMENT SERVICES DEPARTMENT
ENTITLEMENT'S WIRELESS COMMUNICATION FACILITIES

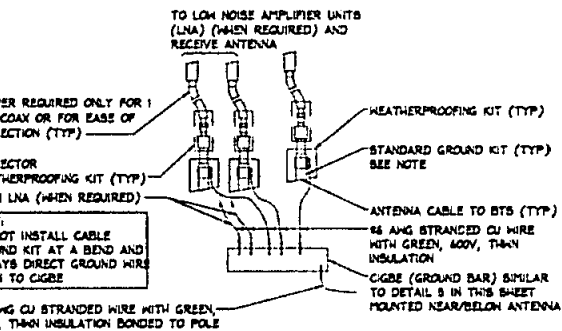
APPROVED EXHIBIT "A" PROCESS 1 APPROVAL SCR

This is a Zoning Use Certificate approval. This does not replace any required construction permits. See approval notes within plan set for more details.

Project Number: 300085
Approval Date: 3/25/14
Signed (1st Sheet): _____

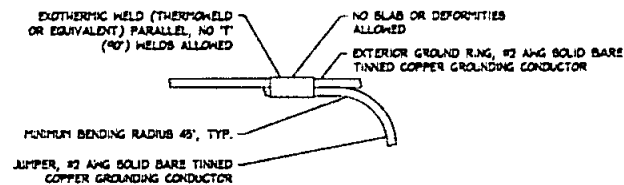
GND CONN. DETAIL

SCALE: NOT TO SCALE



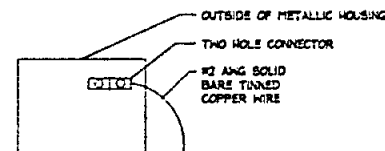
COAX CABLE GROUND

SCALE: NOT TO SCALE



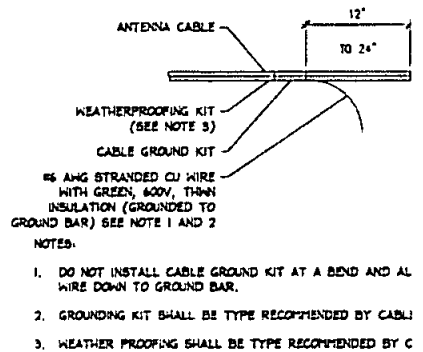
EXOTHERMIC WELD

SCALE: NOT TO SCALE



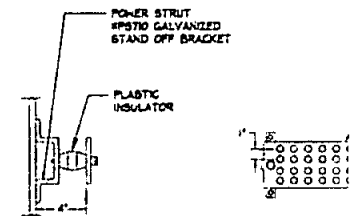
COMPRESSION DETAIL

SCALE: NOT TO SCALE



COAX GROUNDING DE

SCALE: NOT TO SCALE



MGB DETAIL

SCALE: NOT TO SCALE

