



Real Estate Assets

City Consent Application

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

6/17/2020

Date

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

RE: Site Name: Central Division Police Department Project # 850 Mod

Site Address: 2501 Imperial Ave., San Diego, CA 92102, San Diego (the "Property")

Agreement: Agreement dated 12/6/2017 (the "agreement") between The City of San Diego ("City") and Verizon Wireless (VAW) LLC, ("Lessee" or "Permittee").

Verizon Wireless is seeking Consent from the City to perform the following to the above
Applicant's 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:

Modify existing equipment to Verizon's rooftop site - See attached

Remove – Four (4) RRUS

Install – Four (4) RRUS

Retain - Eight (8) RRUS

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, Verizon Wireless would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Ken Weingartner, agent for Verizon Wireless

Applicant Signature: Ken Weingartner
Digitally signed by Ken Weingartner
DN: cn=Ken Weingartner, o=Verizon Wireless, email=ken.weingartner@verizon.com, c=US
Date: 2018.05.23 10:38:21 -07'00'

☐ 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.

City Police Department 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.

6/25/2020 Dan Grubbs Captain [Signature] #47716
Date Print Name & Title Signature

City of San Diego, acknowledgment and consent for Central Division Police Department

6/25/20 CYBULC TRINSEN [Signature] Site Location N.
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

[illegible]

UNITED STATES DEPARTMENT OF COMMERCE INTERNATIONAL TRADE ADMINISTRATION U.S. CUSTOMS AND BORDER PROTECTION		ENTRY SUMMARY Form 3462 (Rev. 10-1-80)	
1. Importer's Name (Print Name) The name of the person or company to whom the goods are being imported.		2. Importer's Address (Print Name) The address of the person or company to whom the goods are being imported.	
3. Importer's Phone Number The telephone number of the person or company to whom the goods are being imported.		4. Importer's Fax Number The fax number of the person or company to whom the goods are being imported.	
5. Importer's E-mail Address The e-mail address of the person or company to whom the goods are being imported.		6. Importer's Website The website of the person or company to whom the goods are being imported.	
7. Importer's Country of Origin The country of origin of the goods being imported.		8. Importer's Country of Destination The country of destination of the goods being imported.	
9. Importer's Country of Manufacture The country of manufacture of the goods being imported.		10. Importer's Country of Assembly The country of assembly of the goods being imported.	
11. Importer's Country of Processing The country of processing of the goods being imported.		12. Importer's Country of Origin of Materials The country of origin of the materials used in the goods being imported.	
13. Importer's Country of Origin of Components The country of origin of the components used in the goods being imported.		14. Importer's Country of Origin of Subcomponents The country of origin of the subcomponents used in the goods being imported.	
15. Importer's Country of Origin of Parts The country of origin of the parts used in the goods being imported.		16. Importer's Country of Origin of Accessories The country of origin of the accessories used in the goods being imported.	
17. Importer's Country of Origin of Tools The country of origin of the tools used in the goods being imported.		18. Importer's Country of Origin of Equipment The country of origin of the equipment used in the goods being imported.	
19. Importer's Country of Origin of Machinery The country of origin of the machinery used in the goods being imported.		20. Importer's Country of Origin of Vehicles The country of origin of the vehicles used in the goods being imported.	
21. Importer's Country of Origin of Aircraft The country of origin of the aircraft used in the goods being imported.		22. Importer's Country of Origin of Ships The country of origin of the ships used in the goods being imported.	
23. Importer's Country of Origin of Spacecraft The country of origin of the spacecraft used in the goods being imported.		24. Importer's Country of Origin of Other Vehicles The country of origin of the other vehicles used in the goods being imported.	
25. Importer's Country of Origin of Other Equipment The country of origin of the other equipment used in the goods being imported.		26. Importer's Country of Origin of Other Machinery The country of origin of the other machinery used in the goods being imported.	
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	15505 SAND CANYON AVENUE, D1 PUEBLO, CALIFORNIA 92818		11877 DALLAS AVENUE MSQUARE WIRELESS SAN ANTONIO, TEXAS 78218	PROJ. MFG. NO.: DRAWN BY: JLN CHECKED BY: M	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">REV</th> <th style="width: 10%;">DATE</th> <th style="width: 50%;">DESCRIPTION</th> <th style="width: 10%;">BY</th> </tr> <tr><td>1</td><td>06/29/2020</td><td>100% CTS</td><td>CU</td></tr> <tr><td>2</td><td>06/07/2020</td><td>100% CTS</td><td>CU</td></tr> <tr><td>3</td><td>06/07/2020</td><td>100% CTS</td><td>CU</td></tr> <tr><td>4</td><td>07/17/2020</td><td>95% CTS FOR NEWVIEW</td><td>JLN</td></tr> </table>	REV	DATE	DESCRIPTION	BY	1	06/29/2020	100% CTS	CU	2	06/07/2020	100% CTS	CU	3	06/07/2020	100% CTS	CU	4	07/17/2020	95% CTS FOR NEWVIEW	JLN	THIS DOCUMENT IS THE PROPERTY OF THE COMPANY AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT IS PROHIBITED. THE COMPANY ACCEPTS NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THIS DOCUMENT. THE COMPANY SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE, LOSS, OR INJURY, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR FROM THE USE OF THIS DOCUMENT. IT IS A POLICY OF THE COMPANY TO PROVIDE A SAFE AND HEALTHY WORKING ENVIRONMENT. ALL EMPLOYEES ARE REQUIRED TO FOLLOW ALL SAFETY RULES AND REGULATIONS. THE COMPANY SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE, LOSS, OR INJURY, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR FROM THE USE OF THIS DOCUMENT.
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SHEET TITLE STORM WATER FORMS		SHEET NUMBER T-2																								

GENERAL CONSTRUCTION NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR - GENERAL CONTRACTOR
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)
OWNER - VERDEON WIRELESS
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND VENDOR WIRELESS PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE NEW WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS AND COMPASSING 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 THE 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 VENDOR WIRELESS ORDINANCES, RULES, REGULATIONS, AND LAWS, 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 RECALLED. 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 MEET 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 MATERIALS CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROVIDE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
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 THE 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 AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAD PLUMBS AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION.
14. SUBCONTRACTOR SHALL KEEP ALL CLEAR, MAINTAIN TREES AND DISPOSAL OF ALL DEBRIS.
15. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADING LINE AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADING LINE AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO THE BEGINNING CONSTRUCTION.
16. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
17. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGE PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
18. GENERAL CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
19. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
20. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
21. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDUM, AND CHANGE ORDERS ON THE PROJECT AT ALL TIMES.
22. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2A-01-10BC AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
23. ALL EXISTING ACTIVE BEWER, 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 PITS 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) DOWNED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING AND EXCAVATION.
24. ALL EXISTING INACTIVE BEWER, 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.
25. 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.
26. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING 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.
27. 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.
28. THE SURFACE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN BRIDGE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
29. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
30. 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.
31. SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REQUIRES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
32. SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
33. THE NEW FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR BEWER SERVICE, AND IS NOT FOR HUMAN HABITAT AND VANDALISM ACCESS REQUIRED.
34. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY VENDOR WIRELESS TECHNICIANS.
35. NO OUTDOOR STORAGE OR BULK WASTE CONTAINERS ARE NEW.
36. ALL MATERIAL SHALL BE FURNISHED AND BE PROVIDED IN ACCORDANCE WITH THE LATEST REVISION VENDOR WIRELESS GROUNDING STANDARD. TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GROUNDING WIRELESS SITE* AND TECHNICAL SPECIFICATION FOR FACILITY GROUNDING*, IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
37. 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.
38. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
39. 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.
40. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
41. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
42. NO NOISE, SMOKE, DUST, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR.
43. NO ADDITIONAL PARKING TO BE NEW. EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
44. NO LANDSCAPING IS NEW AT THIS SITE, UNLESS NOTED OTHERWISE.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY ELECTRICAL WORK INDICATED. ANYHALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE SPECIFICATIONS, IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLAINTS 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 ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM SHALL BE REPAIRED 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 AND TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
A. UL - UNDERWRITERS LABORATORIES
B. NEC - NATIONAL ELECTRICAL CODE
C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
E. IBC - STANDARD BUILDING CODE
4. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFORM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
5. EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
7. THE TERM "PERMIT" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL:
A. ALL ELECTRICAL WORK SHALL CONFORM WITH LOCAL UTILITY COMPANY ANYHALL REQUIREMENTS SUCH AS THE LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED CONTINUITY FOR THE OWNERS CONFIRMATION, ETC., ANYHALL COMPLIANCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER PRIOR TO THE BEGINNING OF THE WORK.
B. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THIN INSULATION.
C. OUTLET BOXES SHALL BE INSTALLED IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
D. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
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GROUNDING NOTES:

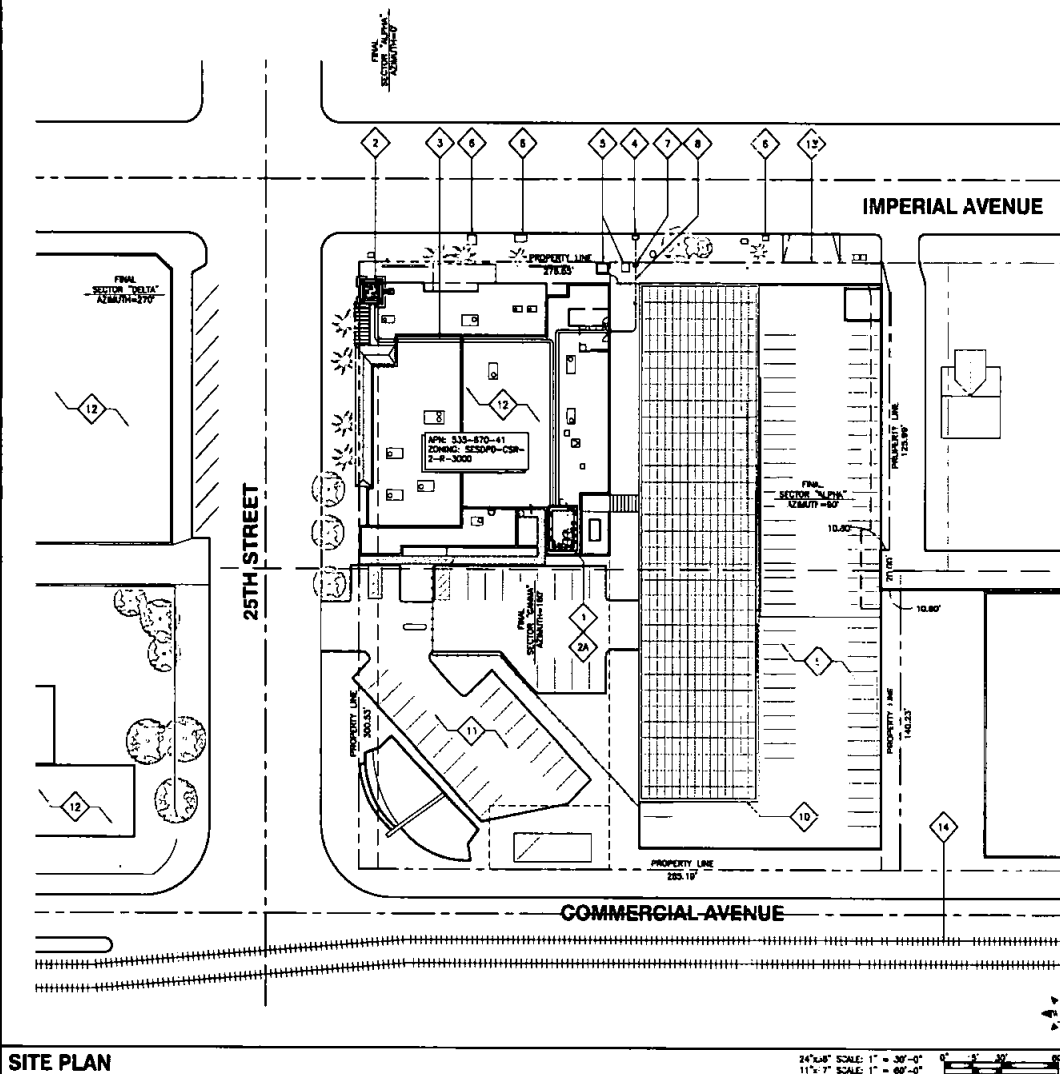
1. COMPRESSION CONNECTIONS ON 1/2 AND BARE THIN ROD COPPER CONDUCTORS TO GROUNDING BAR, ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. FC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION (1", 1/2", 1/4", 1/8", 1/16" WITH 1" HIGH LETTERS).
3. ALL HARDWARE (ISA STAINLESS STEEL, INCLUDING LOCK WASHERS) COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 304 MIN DIAMETER OR LARGER.
4. FOR GROUND RING TO STEEL, ONLY INSERT A CADMIUM PLATE WASHER BETWEEN LUGS AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
5. NUT AND 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, ANTERA LOCATION, AND CONNECTION ORIENTATION, PROVIDE AS REQUIRED.
7. WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
8. ALL ELECTRICAL AND GROUNDING SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70E, LATEST EDITIONS, AND MANUFACTURER.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH WRITTEN 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 CONTROL DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION AND RELEASE OF SITE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
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32. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING

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 PROPOSED INSTALLATION.
3. PROPERTY LINE INFORMATION OBTAINED FROM VERIZON WIRELESS/ NATIONAL ENGINEERING & CONSULTING, INC. DATED 11/28/17



SITE PLAN

24"x36" SCALE: 1" = 30'-0"
11"x17" SCALE: 1" = 60'-0"

1 (1) VEH EQUIPMENT ON ROOFTOP OF (1) BUILDING

2 (1) VEH ANTENNAS AND (4) & (1) EQUIPMENT MOUNTED BEHIND (1) FRP SCREEN IN (1) BELL TOWER

3 (1) VEH ANTENNAS AND (4) & (1) EQUIPMENT MOUNTED BEHIND (1) FRP ENCLOSURE

4 (1) VEH CABLE TRAY

5 (1) CROWN CASTLE FIBER VAULT

6 (1) TRANSFORMER

7 (1) SODGE ELECTRICAL VAULT

8 (1) VEH FIBER HAND HOLE

9 (1) VEH UNDERGROUND FIBER RUN

10 (1) PARKING STRUCTURE

11 (1) SOLAR PANEL ARRANG

12 (1) PARKING LOT

13 (1) BUILDING

14 (1) PROPERTY LINE

15 (1) RAILROAD TRACKS

STORM WATER QUALITY NOTES -- CONSTRUCTION BMPs

THIS PROJECT SHALL COMPLY WITH ALL CURRENT REQUIREMENTS OF THE STATE PERMIT: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (SRWQCB), SAN DIEGO MUNICIPAL STORM WATER PERMIT, THE CITY OF SAN DIEGO LAND DEVELOPMENT CODE, AND THE STORM WATER STANDARDS MANUAL.

PRIOR TO ANY SOIL DISTURBANCE, TEMPORARY SEDIMENT CONTROLS SHALL BE INSTALLED BY THE CONTRACTOR OR QUALIFIED PERSON(S) AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "STORM WATER STANDARDS MANUAL" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/APPROPRIATEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCL) FOR CONSTRUCTION LEVEL BMPs AND, IF APPLICABLE, THE STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) FOR POST-CONSTRUCTION BMPs.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL STORM DRAIN INLET PROTECTION, INLET PROTECTION IN THE PUBLIC RIGHT-OF-WAY MUST BE TEMPORARILY REMOVED PRIOR TO A RAIN EVENT TO ENSURE NO FLOODING OCCURS AND REINSTALLED AFTER RAIN IS OVER.
3. ALL CONSTRUCTION BMPs SHALL BE INSTALLED AND PROPERLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
4. THE CONTRACTOR SHALL ONLY GRADE, INCLUDE CLEARING AND GRUBBING, AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED CONTACT PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.
5. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER BMPs AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED SWPPP/WPCL WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, CIVIL PENALTIES, AND/OR STOP WORK NOTICES.
6. THE CONTRACTOR OR QUALIFIED CONTACT PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT, DEBRIS, AND MUD ON AFFECTED AND ADJACENT STREET(S) AND WITHIN STORM DRAIN SYSTEM DUE TO CONSTRUCTION VEHICLES/EQUIPMENT AND CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY.
7. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION, CONCRETE EROSION, OR OTHER CONSTRUCTION-RELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BMPs THAT ARE ACCEPTABLE TO THE CITY RESIDENT ENGINEER AND AS INDICATED IN THE SWPPP/WPCL.
8. THE CONTRACTOR OR QUALIFIED CONTACT PERSON SHALL CLEAR DEBRIS, SILT, AND MUD FROM ALL DITCHES AND SWALES PRIOR TO AND WITHIN 3 BUSINESS DAYS AFTER EACH RAIN EVENT OR PRIOR TO THE NEXT RAIN EVENT, WHICHEVER IS SOONER.
9. IF A NON-STORM WATER DISCHARGE LEAVES THE SITE, THE CONTRACTOR SHALL IMMEDIATELY STOP THE ACTIVITY AND REPAIR THE DAMAGES. THE CONTRACTOR SHALL NOTIFY THE CITY RESIDENT ENGINEER OF THE DISCHARGE PRIOR TO RESUMING CONSTRUCTION ACTIVITY. ANY AND ALL WASTE MATERIAL, SEDIMENT, AND DEBRIS FROM EACH NON-STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
10. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON-SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BMPs WHEN RAIN IS IMMINENT.
11. THE CONTRACTOR SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPs TO WORKING ORDER YEAR-ROUND.
12. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DUE TO UNFORESEEN CIRCUMSTANCES TO PREVENT NON-STORM WATER AND SEDIMENT-LOADED DISCHARGES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC Trespasses ONTO AREAS WHERE IMPOUNDMENT WATERS CREATE A HAZARDOUS CONDITION.
14. ALL EROSION AND SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED SWPPP/WPCL SHALL BE INSTALLED AND MAINTAINED. ALL EROSION AND SEDIMENT CONTROLS FOR INTERIM CONDITIONS SHALL BE PROPERLY DOCUMENTED AND INSTALLED TO THE SATISFACTION OF THE CITY RESIDENT ENGINEER.
15. AS NECESSARY, THE CITY RESIDENT ENGINEER SHALL SCHEDULE MEETINGS FOR THE PROJECT TEAM (GENERAL CONTRACTOR, CITY RESIDENT ENGINEER, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER, AND THE CITY RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BMPs RELATIVE TO ANTICIPATED CONSTRUCTION ACTIVITIES.
16. THE CONTRACTOR OR QUALIFIED CONTACT PERSON SHALL CONDUCT VISUAL INSPECTIONS AND MAINTAIN ALL BMPs DAILY AND AS NEEDED. VISUAL INSPECTIONS AND MAINTENANCE OF ALL BMPs SHALL BE CONDUCTED BEFORE, DURING, AND AFTER EVERY RAIN EVENT AND EVERY 24 HOURS DURING ANY PROLONGED RAIN EVENT. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL BMPs AS SOON AS POSSIBLE AS SAFETY ALLOWS.
17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A BUFFER ZONE AROUND ALL BMPs. THE BUFFER ZONE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CASE FACT SHEET 10-106 CALTRANS FACT SHEET 10-01 TO PREVENT TRACKING OF SEDIMENT AND OTHER POTENTIAL POLLUTANTS ONTO PAVED SURFACES AND TRAVELED WAY. WIDTH SHALL BE 10' OR THE MINIMUM NECESSARY TO ACCOMMODATE VEHICLES AND EQUIPMENT WITHOUT BY-PASSING THE ENTRANCE. (4) NON-STORM WATER DISCHARGES SHALL BE EFFECTIVELY MANAGED PER THE SAN DIEGO MUNICIPAL CODE CHAPTER 4, ARTICLE 3, DIVISION 3 "STORM WATER MANAGEMENT AND DISCHARGE CONTROL".

KEY NOTES

verizon

15505 SAND CANYON AVENUE, 01
IRVINE, CALIFORNIA 92618

M SQUARE

1557 GALLERIA AVENUE
SAN CLEMENTE ON 92575 (949) 594-8224

PROJECT NO:

DRAWN BY: JLM

CHECKED BY: MF

REV	DATE	DESCRIPTION	BY
1	06/29/2023	100% CDS	EM
2	06/27/2023	100% CDS	EM
3	06/27/2023	100% CDS	EM
9	01/27/2023	80% CDS FOR REVIEW	JAY



DATE SIGNED: 01/29/2023
Expiration Date: 06/30/2023

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CONSTRUCTION OF THIS PROJECT. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CONSTRUCTION OF THIS PROJECT. I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN OR CONSTRUCTION OF THIS PROJECT.

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

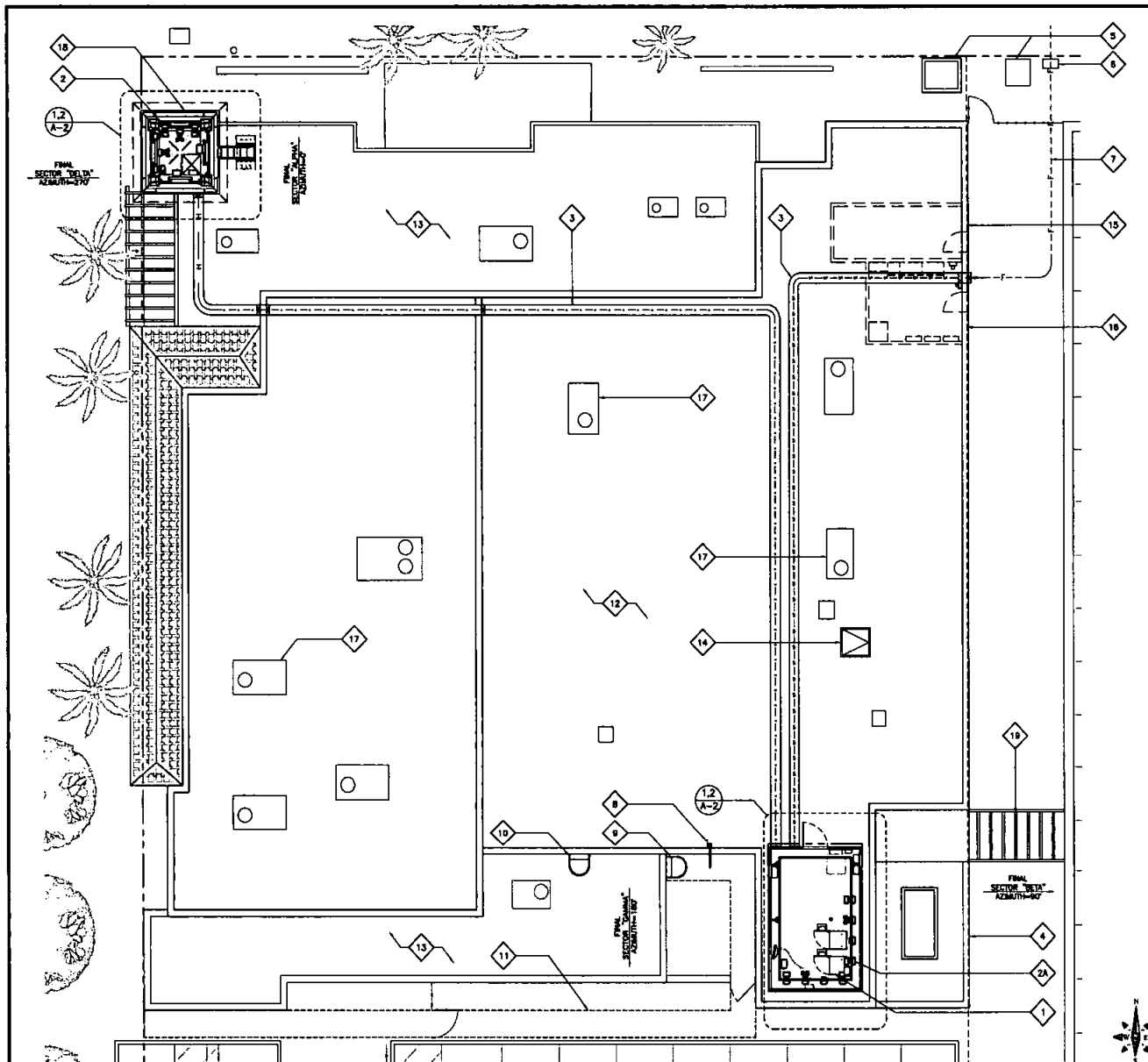
IMPERIAL 25TH (850 -
CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE

SITE PLAN

SHEET NUMBER

A-0



- 1 (C) VZW EQUIPMENT ON ROOFTOP OF (C) BUILDING
- 2 (C) VZW ANTENNAS AND (H) & (C) EQUIPMENT MOUNTED BEHIND (C) FRP SCREEN IN (C) BELL TOWER
- 2A (C) VZW ANTENNAS AND (H) & (C) EQUIPMENT MOUNTED BEHIND (C) FRP ENCLOSURE
- 3 (C) VZW CABLE TRAY
- 4 (C) VZW STAND-BY GENERATOR ENCLOSURE
- 5 (C) TRANSFORMER
- 6 (C) VZW FIBER HAND HOLE
- 7 (C) VZW UNDERGROUND FIBER RUN
- 8 (C) VZW CHIMNEY PORTABLE WINCH SYSTEM WITH PERMANENT MOUNT POST ASSEMBLY TYPE 1 MOUNTED ON THE OUTSIDE OF (C) PARAPET WALL
- 9 (C) BUILDING ACCESS LADDER, SHARED WITH VZW
- 10 (C) VZW ACCESS LADDER
- 11 (C) VZW 4' WIDE NON-EXCLUSIVE TECHNICIAN ACCESS ROUTE
- 12 (C) ROOFTOP
- 13 (C) LOWER ROOFTOP
- 14 (C) ROOF ACCESS HATCH
- 15 (C) TELCO ROOM LOCATED AT GROUND LEVEL
- 16 (C) ELECTRICAL ROOM LOCATED AT GROUND LEVEL WITH (C) VZW ELECTRICAL METER
- 17 (C) ROOFTOP MECHANICAL EQUIPMENT, TYP.
- 18 (C) BELL TOWER
- 19 (C) RAMP TO (C) PARKING GARAGE

verizon
15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

M SQUARE
WIRELESS
1587 GALLS AVENUE
SAN CLEMENTE, CA 92673 (949) 897-0854

PROJECT NO:
DRAWN BY: JLV
CHECKED BY: MP

REV	DATE	DESCRIPTION	BY
3	05/28/2020	100% CDS	EM
2	05/27/2020	100% CDS	EM
1	04/21/2020	100% CDS	EM
0	01/27/2020	80% CDS FOR REVIEW	JLV

DATE VALUED: 06/24/2020
1 signature (Date: 06/24/2020)
THIS WORK WAS PREPARED BY US OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION AND I AM RESPONSIBLE FOR IT.
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO SIGN THIS DOCUMENT.

IMPERIAL 25TH (850 - CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-1

ENLARGED SITE PLAN

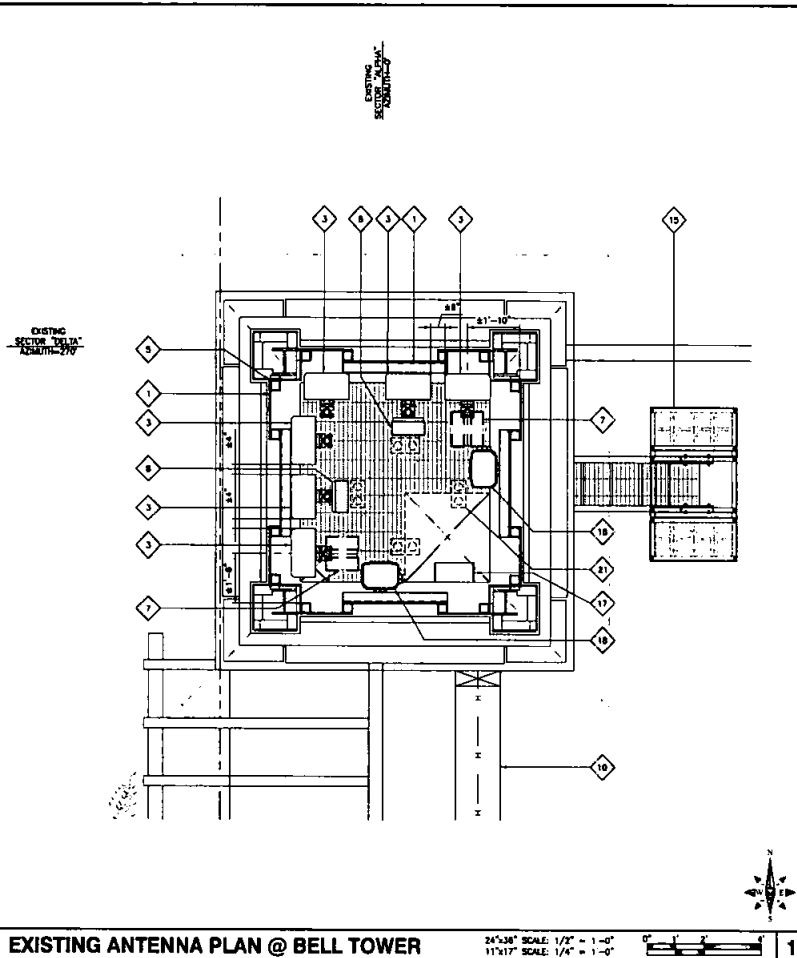
24'x36" SCALE: 1/8" = 1'-0"
11'x17" SCALE: 1/16" = 1'-0"



1 KEY NOTES

- 1 (C) VZW FRP SCREEN
- 2 (C) 8'-6" VZW FRP SCREEN ENCLOSURE
- 3 (C) VZW ANTENNA TO REMAIN MOUNTED BEHIND FRP SCREEN IN BELL TOWER (8 TOTAL)
- 4 (C) VZW ANTENNA TO REMAIN MOUNTED BEHIND FRP SCREEN ENCLOSURE (1 TOTAL)
- 5 (C) FRP FRAMING
- 6 (C) VZW FRU TO BE RELOCATED MOUNTED BEHIND (C) ANTENNA IN (C) FRP SCREEN ENCLOSURE (4 TOTAL) AS REQUIRED
- 7 (C) VZW FRU TO BE REMOVED AND REPLACED MOUNTED ON BACK TO BACK MOUNTS BEHIND (C) ANTENNA @ (C) FRP SCREEN IN BELL TOWER (4 TOTAL)
- 8 (C) VZW FRU TO REMAIN STACK MOUNTED BEHIND (C) ANTENNA @ (C) FRP SCREEN IN BELL TOWER (4 TOTAL)
- 9 (C) VZW FRU TO BE REMOVED MOUNTED ON BACK TO BACK MOUNTS BEHIND (C) ANTENNA @ (C) FRP SCREEN ENCLOSURE (4 TOTAL)
- 10 (C) ROOF MOUNTED CABLE TRAY
- 11 (C) VZW ROOF MOUNTED MICE EQUIPMENT CABINETS
- 12 (C) FIRE EXTINGUISHER
- 13 (C) VZW AUTOMATIC TRANSFER SWITCH
- 14 (C) VZW POWER PANE.
- 15 (C) VZW NON PENETRATING ROOFTOP STAIR SUPPORT BASE WITH ACCESS STAIRS FROM LOWER ROOF TO BELL TOWER
- 16 (C) TELCO BOX
- 17 (C) VZW ACCESS LADDER FROM LOWER GRATING PLATFORM TO UPPER GRATING PLATFORM
- 18 (C) VZW RAYCAP 33 IN BELL TOWER TO REMAIN (2 TOTAL)
- 19 (C) VZW RAYCAP IN (C) FRP SCREEN ENCLOSURE (2 TOTAL) PREVIOUSLY APPROVED BUT NOT INSTALLED
- 20 (C) VZW MICROWAVE ANTENNA IN (C) FRP SCREEN ENCLOSURE PREVIOUSLY APPROVED BUT NOT INSTALLED
- 21 (C) VENT (4 TOTAL)

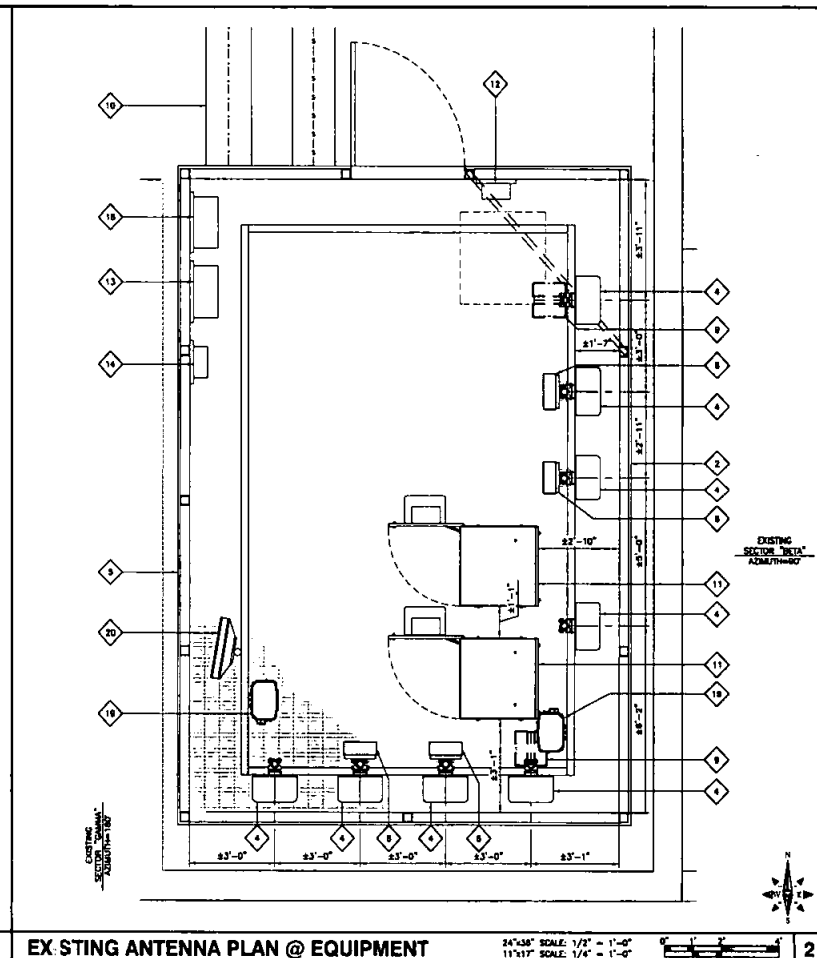
KEYNOTES



EXISTING ANTENNA PLAN @ BELL TOWER

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

1



EXISTING ANTENNA PLAN @ EQUIPMENT

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

2

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15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

M SQUARE
WIRELESS
1887 GALLIE AVENUE
SAN CLEMENTE, CA 92673 (PH) 949 391-4828

PROJECT NO.:
DRAWN BY: JAY
CHECKED BY: MP

REV	DATE	DESCRIPTION	BY
3	05/28/2020	100% CDS	EM
2	04/27/2020	100% CDS	EM
1	04/21/2020	100% CDS	EM
0	01/07/2020	90% CDS FOR REVIEW	JAY

13411T, SIGNED: 04/28/2020
2-approval Date: 05/26/2020
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION, CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION WHEN REQUIRED BY PLAN 16.118-A.
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.

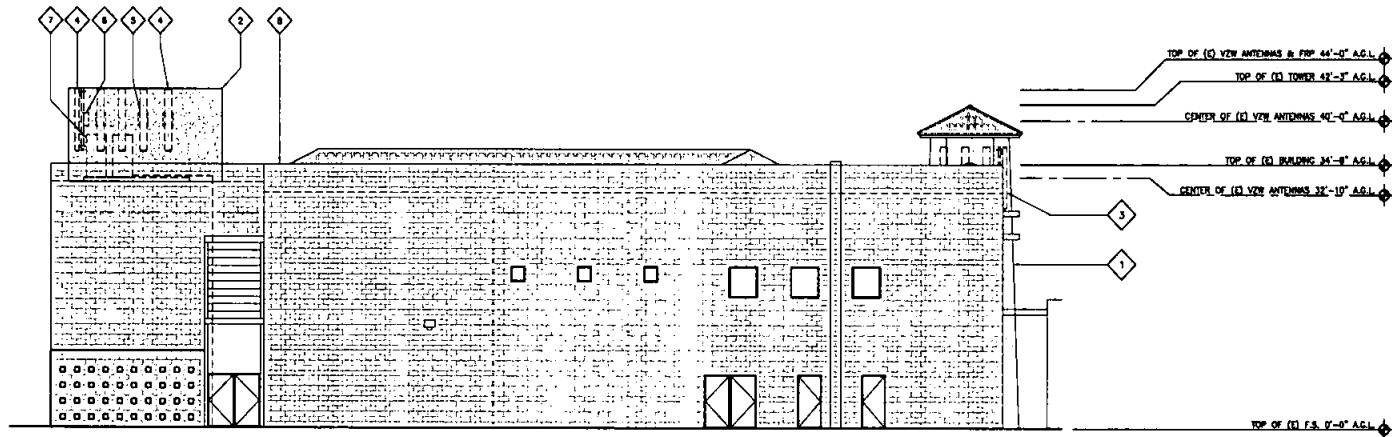
IMPERIAL 25TH (850 -
CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE
EXISTING ANTENNA
PLAN LAYOUTS

SHEET NUMBER
A-2

- 1 (C) BELL TOWER
2 (C) VZW FRP SCREEN ENCLOSURE
3 (C) VZW ANTENNA TO REMAIN MOUNTED BEHIND (C) FRP SCREEN IN BELL TOWER (8 TOTAL)
4 (C) VZW ANTENNA TO REMAIN MOUNTED BEHIND (C) FRP SCREEN ENCLOSURE (8 TOTAL)
- 5 (C) VZW RWU TO BE RELOCATED MOUNTED BEHIND (C) ANTENNA IN (C) FRP SCREEN ENCLOSURE (4 TOTAL) AS REQUIRED
6 (C) VZW RWU TO BE REMOVED MOUNTED ON BACK TO BACK MOUNTS BEHIND (C) ANTENNA IN (C) FRP SCREEN ENCLOSURE (4 TOTAL)
7 (C) VZW ROOF MOUNTED MCE EQUIPMENT CABINETS
8 (C) BUILDING
- 9 (C) RELOCATED VZW RWU MOUNTED BEHIND (C) ANTENNA IN (C) FRP SCREEN ENCLOSURE (4 TOTAL)
10 (C) VZW RWU'S MOUNTED BEHIND VZW ANTENNAS (1 PER SECTION, 4 TOTAL)

KEYNOTES

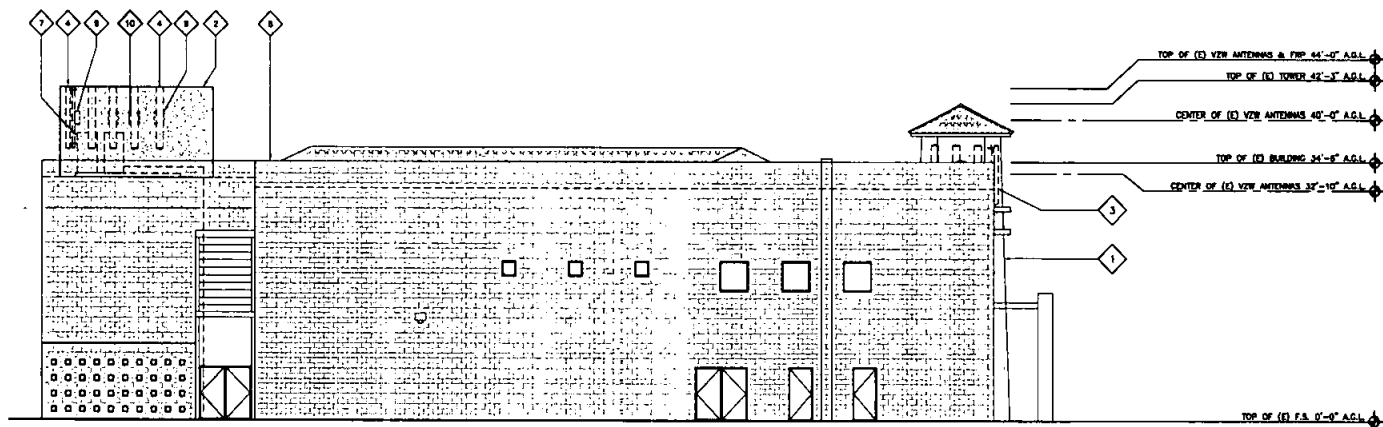


EXISTING EAST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"



1



NEW EAST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"



2

verizon

15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

M SQUARE
WIRELESS

1587 DALL AVENUE
SAN CLAYTON, CA 92378 (951) 894-0204

PROJECT NO:

DRAWN BY: JAV

CHECKED BY: WF

REV	DATE	DESCRIPTION	BY
3	05/28/2025	100% CDS	EM
2	05/27/2025	100% CDS	EM
1	04/27/2025	100% CDS	EM
0	01/27/2025	90% CDS FOR REVIEW	JAV



MATT GUNTER 06/31/2021
Expiration Date: 06/31/2021

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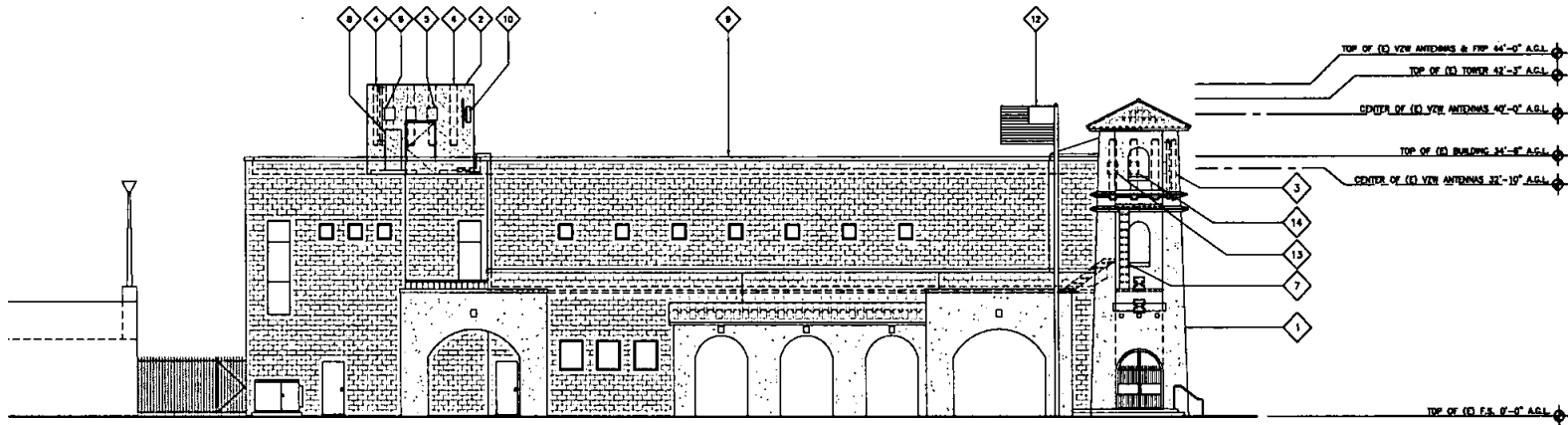
IMPERIAL 25TH (850 -
CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-4

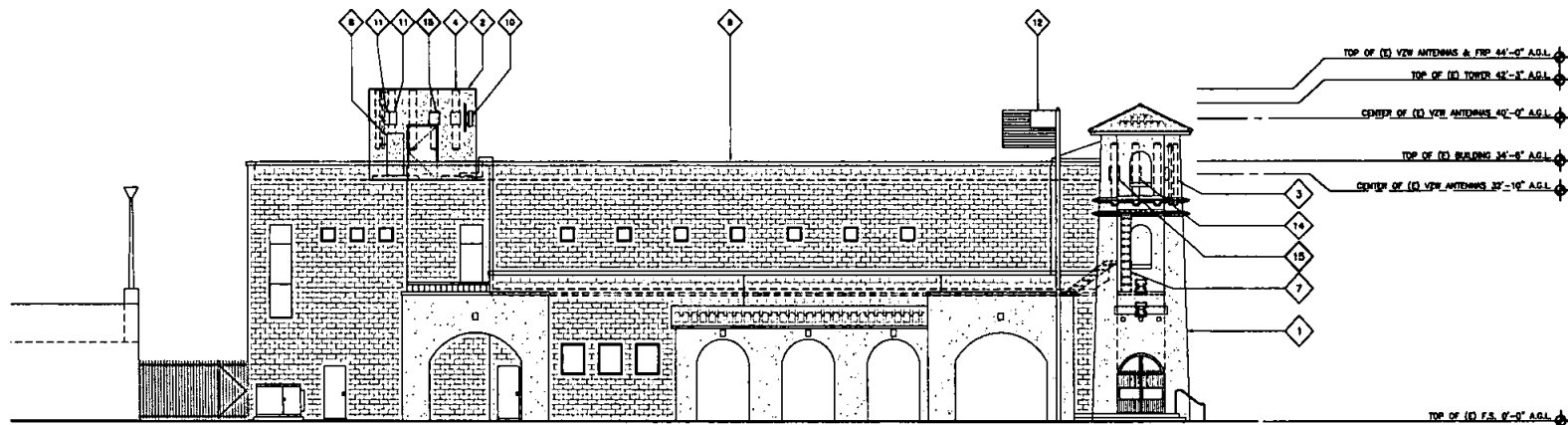
- 1 (C) BELL TOWER
2 (C) VZW FRP SCREEN ENCLOSURE
3 (C) VZW ANTENNA TO REMAIN MOUNTED BEHIND (C) FRP SCREEN IN BELL TOWER (8 TOTAL)
4 (C) VZW ANTENNA TO REMAIN MOUNTED BEHIND (C) FRP SCREEN ENCLOSURE (8 TOTAL)
5 (C) VZW RRU TO BE RELOCATED MOUNTED BEHIND (C) ANTENNA IN (C) FRP SCREEN ENCLOSURE (4 TOTAL) AS REQUIRED
6 (C) VZW RRU TO BE REMOVED MOUNTED ON BACK TO BACK MOUNTS BEHIND (C) ANTENNA IN (C) FRP SCREEN ENCLOSURE (4 TOTAL)
7 (C) VZW ACCESS LADDER FROM LOWER GRATING PLATFORM TO UPPER GRATING PLATFORM
8 (C) VZW ROOF MOUNTED MCE EQUIPMENT CABINETS
9 (C) BUILDING
10 (C) VZW MICROPHONE ANTENNA IN (C) FRP SCREEN ENCLOSURE, PREVIOUSLY APPROVED BUT NOT INSTALLED
11 (C) RELOCATED VZW RRU MOUNTED BEHIND (C) ANTENNA IN (C) FRP SCREEN ENCLOSURE (4 TOTAL)
12 (C) FLAGPOLE
13 (C) VZW RRU TO BE REMOVED AND REPLACED MOUNTED ON BACK TO BACK MOUNTS BEHIND (C) ANTENNA # (C) FRP SCREEN IN BELL TOWER (4 TOTAL)
14 (C) VZW RRU TO REMAIN STACK MOUNTED BEHIND (C) ANTENNA # (C) FRP SCREEN IN BELL TOWER (4 TOTAL)
15 (C) VZW RRU'S MOUNTED BEHIND VZW ANTENNAS (1 PER SECTOR, 4 TOTAL)

KEYNOTES



EXISTING NORTH ELEVATION

24'x36\"/>



NEW NORTH ELEVATION

24'x36\"/>

verizon

15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92615

M SQUARE
WIRELESS
1887 CALLE AVANADO
SAN CLAYTON, CA 92075 (619) 597-4024

PROJECT NO:
DRAWN BY: JAV
CHECKED BY: MF

REV	DATE	DESCRIPTION	BY
3	06/29/2020	100% CDS	EM
2	06/27/2020	100% CDS	EM
1	06/21/2020	100% CDS	EM
0	01/27/2020	80% CDS FOR REVIEW	JAV



DATE: 06/29/2020
Expiration Date: 06/30/2021

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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.

IMPERIAL 25TH (850 -
CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-5

- 1 (1) BELL TOWER
2 (2) VZW FRP SCREEN ENCLOSURE
3 (3) VZW ANTENNA TO REMAIN MOUNTED BEHIND (3) FRP SCREEN IN BELL TOWER (4 TOTAL)
4 (3) VZW ANTENNA TO REMAIN MOUNTED BEHIND (3) FRP SCREEN ENCLOSURE (8 TOTAL)
- 5 (3) VZW RRU TO REMAIN STACK MOUNTED BEHIND (3) ANTENNA @ (3) FRP SCREEN IN BELL TOWER (4 TOTAL)
6 (3) VZW RRU TO BE REMOVED AND REPLACED MOUNTED ON BACK TO BACK MOUNTS BEHIND (3) ANTENNA @ (3) FRP SCREEN IN BELL TOWER (4 TOTAL)
7 (3) VZW ACCESS LADDER FROM LOWER GRATING PLATFORM TO UPPER GRATING PLATFORM
8 (3) VZW ROOF MOUNTED MICE EQUIPMENT CABINETS
- 9 (1) VZW RRU TO BE RELOCATED MOUNTED BEHIND (3) ANTENNA IN (3) FRP SCREEN ENCLOSURE (4 TOTAL) AS REQUIRED
10 (3) VZW RRU TO BE REMOVED MOUNTED ON BACK TO BACK MOUNTS BEHIND (3) ANTENNA IN (3) FRP SCREEN ENCLOSURE (4 TOTAL)
11 (3) BUILDING
12 (3) VZW MICROWAVE ANTENNA IN (3) FRP SCREEN ENCLOSURE, PREVIOUSLY APPROVED BUT NOT INSTALLED
- 13 (1) RELOCATED VZW RRU MOUNTED BEHIND (3) ANTENNA IN (3) FRP SCREEN ENCLOSURE (4 TOTAL)
14 (1) FLAGPOLE
15 (4) VZW RRU'S MOUNTED BEHIND VZW ANTENNAS (1 PER SECTOR, 4 TOTAL) 1 2 0-1 0-1

KEYNOTES



EXISTING WEST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"

1



NEW WEST ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"

2

verizon
15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

M SQUARE
WIRELESS
1887 CALLE AVANZADO
SAN CLEMENTE, CA 92673 (949) 391-8824

PROJECT NO:
DRAWN BY: JAY
CHECKED BY: MP

REV	DATE	DESCRIPTION	BY
3	05/28/2020	100% CDS	EM
2	05/27/2020	100% CDS	TM
1	04/29/2020	100% CDS	EM
0	01/27/2020	90% CDS FOR REVIEW	JAY



DATE: 04/29/2020
1. License (Date: 04/29/2020)
THIS DRAWING WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION WHEN REQUIRED BY PLANS 16-15504.
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.

IMPERIAL 25TH (850 - CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

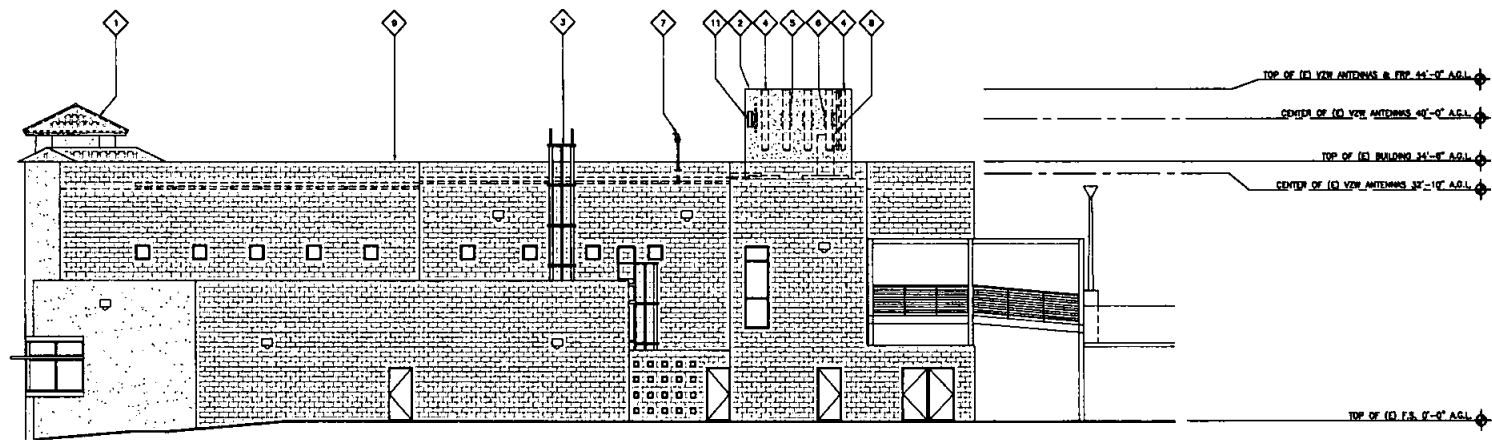
SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-6

- 1 (1) BELL TOWER
- 2 (2) VZW FRP SCREEN ENCLOSURE
- 3 (3) VZW ACCESS LADDER
- 4 (4) VZW ANTENNA TO REMAIN MOUNTED BEHIND (1) FRP SCREEN ENCLOSURE (4 TOTAL)
- 5 (5) VZW RRU TO BE RELOCATED MOUNTED BEHIND (1) ANTENNA IN (1) FRP SCREEN ENCLOSURE (4 TOTAL) AS REQUIRED
- 6 (6) VZW RRU TO BE RELOCATED MOUNTED ON BACK TO BACK MOUNTS BEHIND (1) ANTENNA IN (1) FRP SCREEN ENCLOSURE (4 TOTAL)
- 7 (7) VZW CHANG PORTABLE WIRELESS SYSTEM WITH PERMANENT MOUNT POST ASSEMBLY TYPE 1 MOUNTED ON THE OUTSIDE OF (1) PHARMACY WALL
- 8 (8) VZW ROOF MOUNTED WIRE EQUIPMENT CABINETS
- 9 (9) BUILDING
- 10 (10) RELOCATED VZW RRU MOUNTED BEHIND (1) ANTENNA IN (1) FRP SCREEN ENCLOSURE (4 TOTAL)
- 11 (11) VZW MICROPHONE ANTENNA IN (1) FRP SCREEN ENCLOSURE, PREVIOUSLY APPROVED BUT NOT INSTALLED
- 12 (12) VZW RRU'S MOUNTED BEHIND VZW ANTENNAS (1 PER SECTOR, 4 TOTAL)



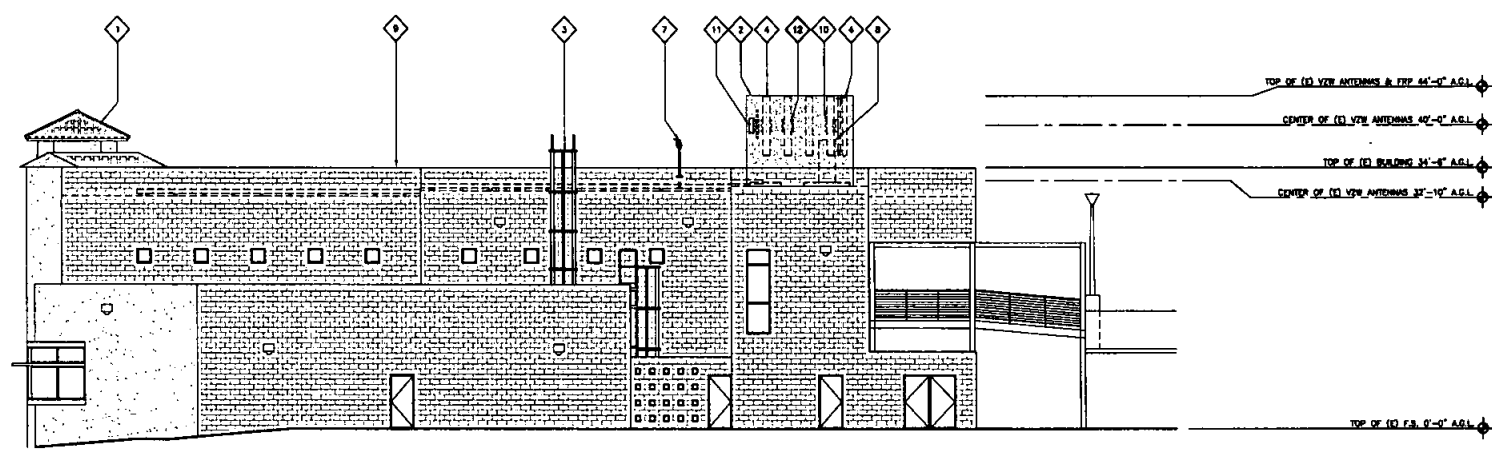
KEYNOTES



EXISTING SOUTH ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"

1



NEW SOUTH ELEVATION

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"

2

verizon
15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

M SQUARED
WIRELESS
1807 CALLE AVAREADO
SAN CLAYTON, CA 94067 (949) 941-0000

PROJECT NO.:	
DRAWN BY:	JLV
CHECKED BY:	MF

REV	DATE	DESCRIPTION	BY
3	05/29/2020	100% CDS	EM
2	05/27/2020	100% CDS	EM
1	04/21/2020	100% CDS	EM
0	01/27/2020	80% CDS FOR REVIEW	JLV

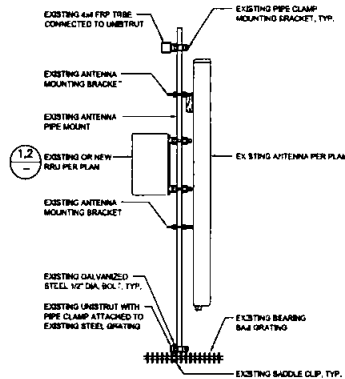
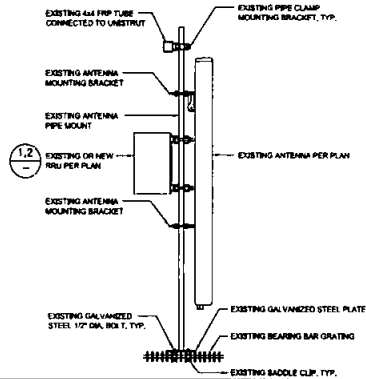


DATE SIGNED: 06/29/2020
Expiration Date: 06/29/2023
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISORIAL CONTROL AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA.
IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

IMPERIAL 25TH (850 -
CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-7



(E) ANTENNA MOUNTING @ BELL TOWER 24"x36" SCALE: NTS 11"x17" SCALE: NTS

(E) ANTENNA MOUNTING @ EQUIPMENT 24"x36" SCALE: NTS 11"x17" SCALE: NTS

NOT USED

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

verizon
15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

M SQUARE
WIRELESS
1887 GALLE AVENUE
SAN CLAYTON, CA 92079 (619) 391-4024

PROJECT NO:
DRAWN BY: JAV
CHECKED BY: MF

REV	DATE	DESCRIPTION	BY
3	06/29/2020	100% CDS	EM
2	06/27/2020	100% CDS	EM
1	06/27/2020	100% CDS	EM
0	01/27/2020	80% CDS FOR REVIEW	JAV



DATE: 06/29/2020
I, Michael J. Pappalardo
THE WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISORIAL CONTROL AND THE PROJECT WILL BE
UNDER MY CLOSE PERSONAL SUPERVISION AND I AM
A PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA.
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.

IMPERIAL 25TH (850 -
CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE
DETAILS

SHEET NUMBER
D-1

NOT USED

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

NOT USED

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

RRU DETAIL

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

"H" FRAME DETAIL

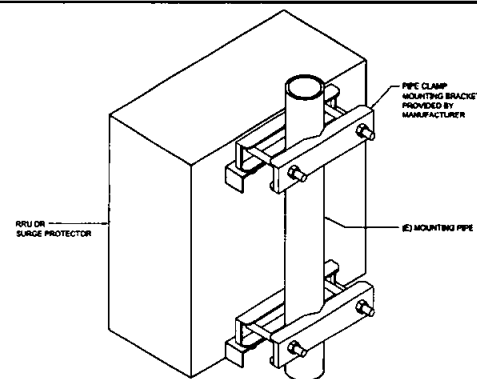
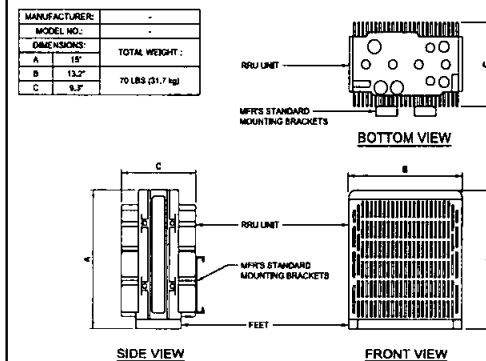
24"x36" SCALE: NTS 11"x17" SCALE: NTS

NOT USED

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

MOUNTING DETAIL

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



GENERAL ELECTRICAL NOTES

- SUBMITTAL OF BIO INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL FIELD VERIFICATION AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER AND OWNER LISTING ALL MALFUNCTIONS, FAULTY, EQUIPMENT, AND DISCREPANCIES.
- THESE PLANS ARE SCHEMATIC ONLY; CONTRACTOR SHALL FOLLOW AS CLOSELY AS POSSIBLE.
- ANTENNA MOUNTING HEIGHTS AND AZIMUTHS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE INDICATED. NOTE THAT CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.
- IF REQUIRED, CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOK-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
- ALL MATERIALS AND EQUIPMENT SHALL BE PROPOSED AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. EXCEPTIONS TO THIS MAY BE PERMITTED IF PROPOSED REPLACEMENT BREAKERS OR SWITCHES ARE NOT AVAILABLE FOR ORIGINAL ELECTRICAL DISTRIBUTION EQUIPMENT - ON THAT CASE, RECONDITIONED EQUIPMENT MAY BE PERMISSIBLE IF IT CARRIES ONE (1) YEAR WARRANTY. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITERS LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. Materials shall meet with APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.
- IF CONTRACTOR IS PROPOSING ALTERNATE MATERIALS OR CONSTRUCTION METHODS FROM WHAT IS SPECIFIED IN THE PLANS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS TO OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF THE WORK.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL CODES AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) REQUIREMENTS.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- CLEAN WORK SITE DAILY, AND REMOVE ALL DEBRIS RESULTING FROM CONSTRUCTION. LEAVE JOB SITE IN A TIDY AND UNDAMAGED CONDITION.
- UPON COMPLETION OF WORK, PERFORM CONTINUITY, SHORT CIRCUIT, AND GROUNDING TEST. GROUNDING SYSTEM SHALL BE TESTED BY INDEPENDENT TESTING AGENCY, WITH WRITTEN REPORT SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL. AFTER APPROVAL, FURNISH ONE COPY OF REPORT TO ENGINEER.
- PROVIDE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL EQUIPMENT LOCATIONS, CONDUIT/CABLE ROUTING, PANEL SCHEDULE, AND OTHER DETAILS WITHIN 10 DAYS OF PROJECT COMPLETION. DATE OF JOB COMPLETION SHALL BE THE DATE ON THE CONTRACTORS' NOTICE OF COMPLETION SUBMITTED TO THE OWNER, AFTER SITE INSPECTION AND SIGNOFF BY OWNER.
- ALL BROCHURES, OPERATING MANUAL, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.

- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSED THOROUGH THE FLOOR OR WALLS FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
- EXACT LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS, SUCH AS X-RAY EQUIPMENT OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WITH SUITABLE WEATHERPROOF SEALANT. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH CURRENT LOCAL BUILDING CODES USING U.L. RATED MATERIALS.
- ALL CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM UNLESS NOTED OTHERWISE. INSULATION SHALL BE 90°C RATED, AND DUAL RATED THHN/THWN-2. NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
- ALL CONDUIT ONLY (C.O.) RUNS SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE.
- GROUND THE ENTIRE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE NEC AND DRAWINGS. BELOW GRADE GROUND CONDUCTORS SHALL BE #2 AWG SOLID BARE TINTED COPPER, ABOVE GRADE, ALL CONDUCTORS SHALL BE STRANDED GREEN INSULATED COPPER, SEIZED #2 AWG OR AS SHOWN IN THE DRAWINGS. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 6' LONG. GROUNDING HARDWARE SHALL BE ERICO, STORM COPPER COMPONENTS, FUSH COPPERWELD OR APPROVED EQUAL.
- GROUND ALL ANTENNA BASES, ENCLOSURES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO THE BUS BARS. FOLLOW EQUIPMENT MANUFACTURER'S RECOMMENDATIONS FOR GROUNDING. GROUND COAX SHIELD AT BOTH ENDS USING CABLE MANUFACTURER'S RECOMMENDATIONS.
- THE NUMBER OF GROUNDING BARS MAY VARY DEPENDING UPON THE SITE LAYOUT, ANTENNA LOCATION, AND OTHER FACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SUFFICIENT GROUNDING BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
- EXOTHERMIC WELDS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, CABLE TO GROUND RODS, GROUND ROD SPLICES AND OTHER SYSTEMS AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING, METAL, ETC.) SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES. ALL EXOTHERMIC WELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF GALVITE (WHITE) PAINT OR SILVERBRITE (ALUMINUM).
- ALL STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG, ATTACHED WITH NUTS, BOLTS AND STAR WASHERS TYPICAL. ALL MECHANICAL CONNECTIONS SHALL HAVE ANTI-OXIDANT GREASE (E.G. NO-OX) APPLIED BETWEEN LUG AND BUS BAR.
- ALL EXPOSED TINNED COPPER SURFACES SHALL BE PROTECTED BY 1/2" PVC CONDUIT AND SECURED, WHERE SUBJECT TO MECHANICAL DAMAGE. OTHER GROUND LEADS SHALL ALSO BE ENCLOSED IN 1/2" OR 3/4" LFC.
- COMPRESSION FITNESS TO BE USED ON ALL CONDUITS (NO SETSCREWS).
- PVC CONDUIT INSTALLED IN OUTDOOR LOCATIONS SUBJECT TO SUNLIGHT EXPOSURE SHALL BE UV RESISTANT. SURFACE-MOUNTED CONDUIT INSTALLED IN LOCATIONS SUBJECT TO FOOT TRAFFIC OR OTHER WEAR AND TEAR, SHALL BE PVC SCHEDULE 80, IMC, OR GRG. CONDUIT RUNS ALONG WALLS OR FLOORS SHALL BE SURFACE MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. OTHER CONDUIT REQUIREMENTS:
 - INTERMEDIATE METALLIC CONDUIT (IMC) SHALL HAVE U.L. LABEL. FITTINGS SHALL BE WATER-TIGHT COMPRESSION TYPE. IMC SHALL BE USED FOR OUTDOOR RUNS, IMC IN CONTACT WITH EARTH SHALL BE 1/2" LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3
 - ELECTRICAL METALLIC TUBING (EMT) SHALL HAVE U.L. LABEL. FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
- ALL PROPOSED ELECTRICAL ENCLOSURES (EXCEPT FOR JUNCTION OR SPLICE BOXES) SUCH AS PANELBOARDS AND DISCONNECT SWITCHES SHALL BE LABELED WITH PERMANENT ENGRAVED PHENOLIC NAMEPLATES, BLACK WITH WHITE LETTERING, AND ATTACHED WITH RIVETS.

ABBREVIATIONS

AAV	ALTERNATE ACCESS VENDOR	GR	GROWTH (CABINET)	UADU	UNIVERSAL TYPE A DIGITAL UNIT
ACCA	ANTENNA CABLE ASSEMBLY	GRG	GALVANIZED RIGID (STEEL) CONDUIT	UG	UNDERGROUND
AFB	ABOVE FINISHED FLOOR	IGB	INTERNAL GROUND BAR	WP	WEATHERPROOF
AFG	ABOVE FINISHED GRADE	IGR	INTERIOR GROUND RING	WW	WIREFRAY
AFS	ADVANCED WIRELESS SERVICES	IMC	INTERMEDIATE METALLIC CONDUIT	XFMR	TRANSFORMER
AG	ABOVE GROUND	ISCW	INSULATED STRANDED COPPER WIRE		
AGB	ANTENNA GROUND BAR	LTE	LONG TERM EVOLUTION		
ATS	AUTOMATIC TRANSFER SWITCH	LFC	LIQUID TIGHT FLEXIBLE CONDUIT		
AWG	AMERICAN WIRE GAUGE	MOB	MAIN (OR MASTER) GROUND BAR		
BBU	BASEBAND UNIT	MBS	MULTI-MODE BASE STATION		
BCW	BARE COPPER WIRE	MTS	MANUAL TRANSFER SWITCH		
BCSW	BARE STRANDED COPPER WIRE	NEC	NATIONAL ELECTRIC CODE		
BTOW	BARE TINNED COPPER WIRE	NID	NETWORK INTERFACE DEVICE		
C	CONDUIT	NV	NETWORK VISION		
CAB	CABINET	OH	OVERHEAD		
CE	CONCRETE ENCASED	PCS	PERSONAL COMMUNICATION SERVICES		
CGB	COLLECTOR GROUND BAR	PPC	POWER PROTECTION CABINET		
CKT	CIRCUIT	PRC	PRIMARY RADIO CABINET		
COVP	CAPACITOR OVERVOLTAGE PROTECTION	PVC	POLYVINYL CHLORIDE		
DB	DIRECT BURIED	PWR	POWER		
DEI	DIGITAL EXPANSION INTERFACE	RGS	RIGID GALVANIZED STEEL		
DISC	DISCONNECT	RRH	REMOTE RADIO HEAD		
EMT	ELECTRICAL METALLIC TUBING	RRU	REMOTE RADIO UNIT		
GFCI	GROUND FAULT CURRENT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE		
G	GROUND	SS	STAINLESS STEEL		
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		
GPS	GLOBAL POSITIONING SYSTEM	TYP	TYPICAL		

ELECTRICAL LEGEND

— UGP — UGP — UGP —	EXISTING U/G ELECTRICAL	— X — X — X —	EXISTING CHAINLINK FENCE
— OE — OE — OE —	EXISTING O/H ELECTRICAL	— X — X — X —	PROPOSED CHAINLINK FENCE
— AGP — AGP — AGP —	EXISTING A/G ELECTRICAL		EXISTING WOOD FENCE
— UGT — UGT — UGT —	EXISTING U/G TELEPHONE		PROPOSED WOOD FENCE
— FO — FO — FO —	EXISTING FIBER OPTIC		
— HFLEX — HFLEX — HFLEX —	EXISTING HYBRIFLEX CABLE		
— UGP — UGP — UGP —	PROPOSED U/G ELECTRIC		
— OE — OE — OE —	PROPOSED O/H ELECTRIC		
— AGP — AGP — AGP —	PROPOSED A/G ELECTRIC		
— UGT — UGT — UGT —	PROPOSED U/G TELEPHONE		
— FO — FO — FO —	PROPOSED FIBER OPTIC		
— HFLEX — HFLEX — HFLEX —	PROPOSED HYBRIFLEX CABLE		

ELEVATION/SECTION REFERENCE. TOP NUMBER IS THE DETAIL; BOTTOM NUMBER IS THE SHEET NO.

verizon

15505 SAND CANYON AVENUE, 01
IRVINE, CALIFORNIA 92618

M SQUARE
WIRELESS

1887 CALLE AVANZADO
SAN DIEGO, CA 92108 (619) 591-4328

PROJECT NO: _____
DRAWN BY: JLV
CHECKED BY: MF

REV	DATE	DESCRIPTION	BY
1	06/28/2020	100% CDS	EM
2	09/27/2020	100% CDS	EM
3	04/21/2021	100% CDS	EM
4	01/27/2021	10% CDS FOR REVIEW	JLV

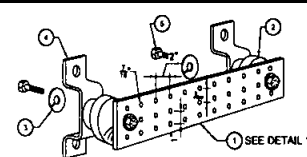
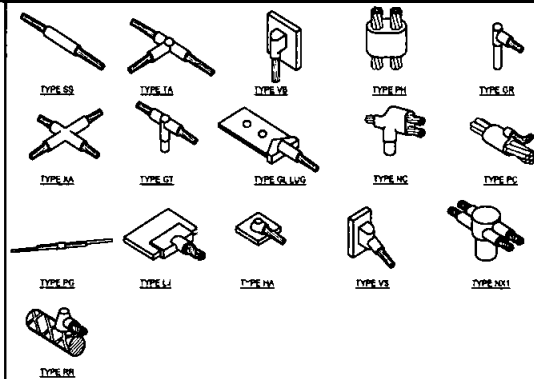


DATE: 06/29/2020
1:00pm PM (P.M.) 2020
THIS DRAWING WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION WHEN REQUIRED BY CALIF. 16-116-8.
IF IT IS A VIOLATION OF LAW OR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

IMPERIAL 25TH (850 -
CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE
**ELECTRICAL NOTES
AND LEGENDS**

SHEET NUMBER
G-1



LEGEND:

1. COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. CAT. NO. 84742 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CO. CAT. NO. 30814 OR EQUAL
3. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 30754 OR EQUAL WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. 44856 OR EQUAL
4. 5/8-11 x 1" HEX BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 30131 OR EQUAL
5. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS

NOT USED

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

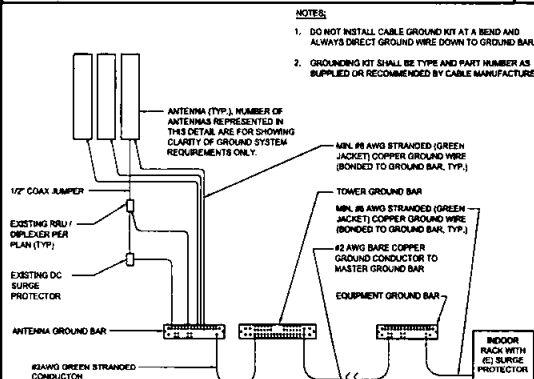
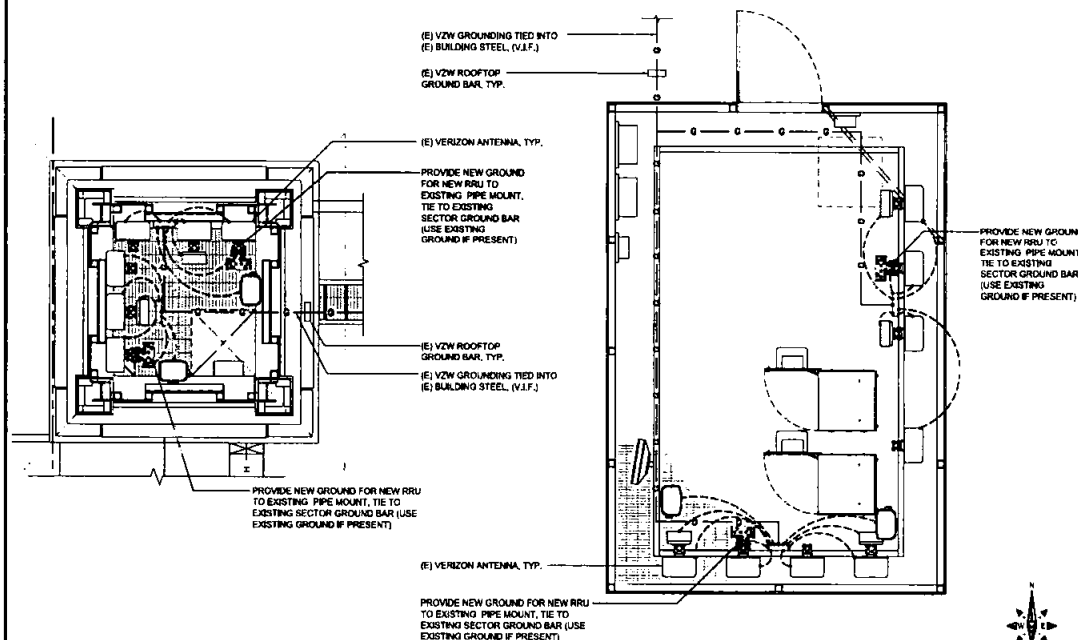
6 TYPICAL CADWELD TYPES

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

4 GROUNDING BAR DETAIL

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

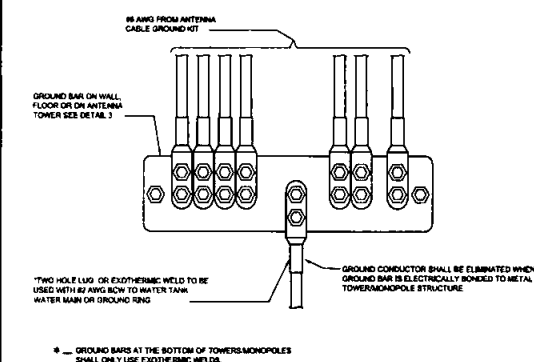
1



ANTENNA GROUNDING SCHEMATIC

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

2



WIRE TO GROUND BAR CONNECTION

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

3

ANTENNA GROUNDING PLAN

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"

5

verizon
15505 SAND CANYON AVENUE, D1
IRVINE, CALIFORNIA 92618

M SQUARE
WIRELESS
1587 DALLAS AVENUE
ANA CLIMENTS CA 92705 (949) 991-4024

PROJECT NO:
DRAWN BY: JAV
CHECKED BY: MP

REV	DATE	DESCRIPTION	BY
3	05/28/2020	100% CDS	EM
2	05/27/2020	100% CDS	EM
1	04/21/2020	100% CDS	EM
0	01/27/2020	80% CDS FOR REVIEW	JAV



DATE: 05/28/2020
Expiration Date: 06/16/2024

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION WHEN REQUIRED BY FLA. 16-1554.

IMPERIAL 25TH (850 - CARRIER ADD)
2501 IMPERIAL AVENUE
SAN DIEGO, CA 92102

SHEET TITLE
ELECTRICAL
GROUNDING DETAILS

SHEET NUMBER

G-2