



SITE NAME: SA60XC296/ CITY OF SAN ANTONIO
FCC NUMBER: 1223931
STRUCTURE TYPE: SELF-SUPPORT TOWER
MARKET: SAN ANTONIO

EQUIPMENT SCHEDULES ARE BASED ON
 RFD SA60XC296_RFDS_vB1_20120712

OWNER/APPLICANT FOR:
Sprint
 1 INTERNATIONAL BOULEVARD
 SUITE #800
 MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON COMMUNICATIONS
 728 Shades Creek PKWY
 Suite 120
 Homewood, AL 35209
 Tel: (205) 682-7525

CONSULTANT:
SMW ENGINEERING GROUP, INC.
 TOGETHER PLANNING A BETTER TOMORROW
 158 BUSINESS CENTER DRIVE
 BIRMINGHAM, AL 35244
 TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296
 FCC NUMBER:
1223931
 SITE ADDRESS:
 4719 S ZARZAMORA
 SAN ANTONIO, TX 78225
 BEXAR COUNTY SHERIFF OFFICE

STAMP:
 I CERTIFY THAT THE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL TO THE BEST OF MY KNOWLEDGE & BELIEF IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2006 EDITION.
JEREMY D. SHARIT
 103303
 PROFESSIONAL ENGINEER
 07/31/13

PROJECT SUMMARY

SITE NAME: SA60XC296/CITY OF SAN ANTONIO
 FCC NUMBER: 1223931
 911 ADDRESS: 4719 S ZARZAMORA
 SAN ANTONIO, TX 78225
 APN#: N/P
 LATTITUDE: 29.37841°
 LONGITUDE: -98.53709°
 GROUND ELEVATION: 300' AMSL
 JURISDICTION: BEXAR COUNTY SHERIFF OFFICE
 ZONING: NONE

PHASE 1 SCOPE OF WORK

- THE WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY
- THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.
- THE SCOPE OF WORK CONSISTS OF MODIFYING THE EXISTING WIRELESS INSTALLATION:
 - RELOCATE EXISTING EQUIPMENT CABINETS PER PLANS
 - RE-ROUTE POWER AND TELCO AS SPECIFIED
 - INSTALL NEW RBS & BBS AS SPECIFIED
 - ROUTE NEW POWER & TELCO AS SPECIFIED
 - INSTALL NEW ANTENNAS, RRU'S, & FIBER CABLE PER RFDS
 - ROUTE NEW FIBER HYBRID CABLE TO EACH SECTOR AS SPECIFIED

PHASE 2 SCOPE OF WORK

- THE WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY
- THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.
- THE SCOPE OF WORK CONSISTS OF MODIFYING THE EXISTING WIRELESS INSTALLATION:
 - REMOVE 6 EXISTING CDMA ANTENNAS
 - REMOVE ALL EXISTING COAX, TMA, ETC.
 - REMOVE EXISTING CABINETS

APPLICABLE CODES & STANDARDS

- INTERNATIONAL BUILDING CODE, 2003 EDITION AS ADOPTED BY LOCAL JURISDICTION.
- NATIONAL ELECTRICAL CODE, 2008 EDITION AS ADOPTED BY LOCAL JURISDICTION.
- UNIFORM MECHANICAL CODE, 2000 EDITION AS ADOPTED BY LOCAL JURISDICTION.
- INTERNATIONAL ENERGY CONSERVATION CODE, 2008 CITY OF SAN ANTONIO COMMERCIAL ENERGY CODE (ANSI/ASHRAE/IESNA 90.1-2004)

DRIVING DIRECTIONS

FROM SAN ANTONIO, TAKE I-35S TOWARD I-10E/US 87 S. GO 2.3 MI AND TAKE EXIT 152A/DIVISION AVE ONTO S PANAMA EXPY. GO 0.5 MI AND TURN RIGHT ON DIVISION AVE. GO 1 MI AND BEAR LEFT ON NOGALITOS ST. GO 0.1 MI AND BEAR RIGHT ON AMES AVE. GO 0.2 MI AND TURN RIGHT ON S ZARZAMORA ST. ARRIVE AT SITE ON LEFT.

CONTACTS

APPLICANT:
 SPRINT PCS
 1 INTERNATIONAL BOULEVARD
 SUITE #800
 MAHWAH, N.J. 07495
 201-684-4000

TOWER OWNER:
 BEXAR COUNTY SHERIFF OFFICE
 FCC NO. 1223931
 PHONE: 210-207-8888

ENGINEER:
 SMW ENGINEERING GROUP, INC.
 1550 WOODS OF RIVERCHASE DRIVE
 SUITE 100
 CONTACT: JEREMY SHARIT, P.E.
 PHONE: 205-453-1892

SURVEYOR:
 NA

TELEPHONE COMPANY:
 SOUTHWESTERN BELL
 (210) 821-4105

POWER COMPANY:
 CPS
 (800) 870-1006

VICINITY MAP



APPROVALS

ERICSSON CONSTRUCTION MANAGER DEVLIN HARRIS, (832) 876-7929	DATE
ERICSSON RF ENGINEERING ERAY OZKAN, (972) 322-0902	DATE
ERICSSON SITE ACQUISITION MANAGER DEBRA CHRISTIAN, (208) 794-8899	DATE
SPRINT CONSTRUCTION MANAGER	DATE

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

LIST OF DRAWINGS

SITE GENERAL ARRANGEMENT PLANS	
T-1	TITLE SHEET
T-2	GENERAL NOTES
T-3	GENERAL NOTES
T-4	GENERAL NOTES
ARCHITECTURAL / CIVIL PLANS	
A-1	OVERALL SITE PLAN
A-2	ENLARGED SITE PLANS
A-3	EQUIPMENT SITE PLANS
A-4	SITE ELEVATION & ANTENNA DETAILS
A-5	ANTENNA SCHEDULE
A-6	EQUIPMENT SCHEDULE
A-7	ANTENNA PLUMBING DIAGRAM
A-8	ENLARGED ANTENNA PLANS & COAX RUN DIAGRAM
A-9	EXISTING COLOR CODE
A-10	PROPOSED COLOR CODE
A-11	CABINET DETAILS
A-12	RRU DETAILS
ELECTRICAL PLANS	
E-1	ENLARGED UTILITY SITE PLAN
E-2	UTILITY SITE PLAN
E-3	NOT USED.
E-4	GROUNDING PLANS - FINAL
E-5	ELECTRICAL & GROUNDING DETAILS
E-6	GROUNDING DETAILS

NOTE: DRAWING SCALES ARE FOR 24"x36" SHEETS UNLESS OTHERWISE NOTED.



**TEXAS ONE-CALL
 STATE WIDE: 811
 CALL BEFORE YOU DIG**

DRAWN BY:	JHB	SMW #:	
APPROVED BY:	JDS	11-0802	
DATE DRAWN:	08/05/11		
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SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

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COMPLY WITH THESE STANDARDS UNLESS OTHERWISE REQUIRED BY APPLICABLE CODES

1.0 CONSTRUCTION TO CONFORM TO SPRINT NEXTEL INTEGRATED CONSTRUCTION STANDARDS
 1.1 PURPOSE AND INTENT
 A. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH. SHOULD THERE BE ANY DISCREPANCIES BETWEEN REQUIREMENTS SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
 B. THE INTENTION OR THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
 C. THE PURPOSE OF THE SPRINT WIRELESS CONSTRUCTION SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.
 1.2 CONFLICTS
 A. VERIFY ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIAL OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS OR DIMENSIONS SHOWN ON PLANS. SUBMIT NOTICE OF ANY DISCREPANCY IN DIMENSIONS OR OTHERWISE TO SPRINT WIRELESS FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
 B. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST OR OF DIFFICULTIES OF CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS GOVERNING THE WORK.
 1.3 CLEANING
 KEEP THE SITE FREE FROM ACCUMULATION OF WASTE AND RUBBISH CAUSED BY EMPLOYEES AT THE COMPLETION OF THE WORK. REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL INCLUDING ALL CONTRACTOR TOOLS, SCAFFOLDING AND SURPLUS MATERIAL AND LEAVE SITE CLEAN AND READY FOR USE.
 1.4 CODES
 CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL LAWS, REGULATIONS AND RULES PROMULGATED BY FEDERAL STATE AND LOCAL AUTHORITIES WITH JURISDICTION OVER THE SITE. THIS RESPONSIBILITY IS IN EFFECT REGARDLESS OF WHETHER THE LAW, ORDINANCE, REGULATION OR RULE IS MENTIONED IN THESE SPECIFICATIONS.
 1.5 LICENSING
 HAVE AND MAINTAIN A VALID CONTRACTORS LICENSE FOR THE LOCATION IN WHICH THE WORK IS TO BE PERFORMED. FOR JURISDICTIONS THAT LICENSE INDIVIDUAL TRADES, THE TRADESMAN OR SUBCONTRACTORS PERFORMING THOSE TRADES SHALL BE LICENSED. RESEARCH AND COMPLY WITH LICENSING LAWS, PAY LICENSE FEES, AND SELECT AND INFORM SUBCONTRACTORS REGARDING THESE LAWS.
 1.6 OSHA
 FOLLOW ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS, AND STATE LAWS BASED IN THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT. THESE REGULATIONS INCLUDE BUT ARE NOT LIMITED TO REGULATIONS DEALING WITH TOWER CONSTRUCTION AND SAFETY, EXCAVATIONS AND TRENCHING, AND WORK IN CONFINED SPACES. ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES DURING CONSTRUCTION.
 1.7 PHOTOS
 PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL FOUNDATION INSTALLATION, GROUNDING AND TRENCHING AFTER PLACEMENT OF UTILITIES PRIOR TO BACKFILL.
 1.8 BUILDING PERMITS
 SPRINT WIRELESS WILL SUBMIT CONSTRUCTION DOCUMENTS TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR WILL SUBMIT LICENSING AND WORKMAN'S COMPENSATION INFORMATION TO THE JURISDICTION AS REQUIRED TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL COORDINATE AND SCHEDULE REQUIRED INSPECTIONS AND POST REQUIRED PERMITS AT THE JOB SITE. COMPLY WITH SPECIFIC PROJECT-RELATED REQUESTS AND SUGGESTIONS MADE BY BUILDING INSPECTOR AND INFORM CONSTRUCTION MANAGER OF ANY SUCH WORK THAT MAY BE BEYOND THE SCOPE OF THE CONTRACT OR DEVIATE FROM THE CONSTRUCTION DOCUMENTS. SPRINT WIRELESS WILL REIMBURSE THE CONTRACTOR FOR FEES FOR PLAN REVIEW, BUILDING PERMIT, CONNECTIONS AND INSPECTION.
 1.9 ZONING REGULATIONS AND CONDITIONAL USE PERMITS
 SPRINT WIRELESS WILL SUBMIT FOR AND OBTAIN ALL ZONING AND CONDITIONAL USE PERMITS. SOME USE PERMITS MAY HAVE SPECIFIC REQUIREMENTS RELATED TO THE CONSTRUCTION SUCH AS NOISE REGULATIONS, HOURS OF WORK, ACCESS LIMITATIONS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE PRE-BID MEETING OR AS SHOWN IN CONSTRUCTION DOCUMENTS.
 1.10 FM PERMIT AND TOWER LIGHTING
 REFER TO CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER FOR FAA AND STATE LIGHTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE TEMPORARY FM APPROVED LIGHTING UNTIL PERMANENT LIGHTING IS OPERATIONAL
 1.11 TOWER SECURITY
 TOWER MUST BE FENCED, TEMPORARILY OR PERMANENTLY WITHIN 24 HOURS OF ERECTION. DO NOT ALLOW THE GATE ACCESSING THE TOWER AREA TO REMAIN OPEN OR UNATTENDED AT ANY TIME FOR ANY REASON. KEEP THE GATE CLOSED AND LOCKED WHEN NOT IN USE.
 1.12 SITE CONTROL
 A. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION AT THE SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO SPRINT WIRELESS.

B. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
 C. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

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SITE ACQ.:



728 Shades Creek PKWY
 Suite 120
 Homewood, AL 35209
 Tel: (205) 682-7525

CONSULTANT:



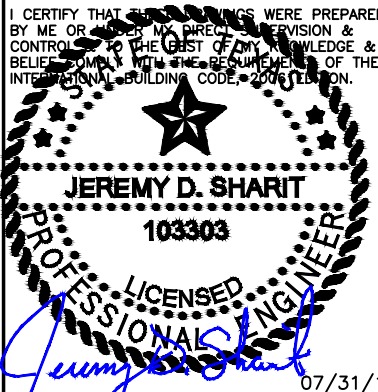
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07/31/13

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

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SHEET TITLE:
GENERAL NOTES

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T-2

4.2 PIPE DETECTION AND IDENTIFICATION

A. UTILIZING WARNING TAPE: ALL ELECTRIC SERVICE TRENCHES SHALL BE MARKED WITH WARNING TAPE.

4.3 TRENCH EXCAVATION

- A. DIG TRENCH TO LINES AND GRADES SHOWN ON THE PLANS OR AS DIRECTED BY CONSTRUCTION MANAGER.
- B. TRENCH LENGTH SHALL BE SUFFICIENT TO ALLOW FOR SATISFACTORY CONSTRUCTION AND INSPECTION OF THE PROJECT WITHOUT ENDANGERING OTHER CONSTRUCTION WORK OR ADJACENT FACILITIES.
- C. DISPOSE OF EXCESS AND UNSUITABLE EXCAVATION MATERIAL PROPERLY, AS DIRECTED BY CONSTRUCTION MANAGER.
- D. USE HAND METHODS FOR EXCAVATION THAT CANNOT BE ACCOMPLISHED WITHOUT ENDANGERING EXISTING OR NEW STRUCTURES OR OTHER FACILITIES.

4.4 TRENCH PROTECTION

- A. PROVIDE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PROTECT TRENCHES AT ALL TIMES.
- B. SHEETING AND BRACING: MEET OR EXCEED OSHA REQUIREMENTS.

4.5 BACKFILLING

- A. NOTIFY THE CONSTRUCTION MANAGER AT LEAST 24 HOURS IN ADVANCE OF BACKFILLING.
- B. BACKFILL TRENCH WITH LIFTS UP TO 12 INCHES, LOOSE MEASURE.
- C. PROTECT CONDUIT FROM LATERAL MOVEMENT, DAMAGE FROM IMPACT OR UNBALANCED LOADING TO AVOID DISPLACEMENT OF CONDUIT AND/OR STRUCTURES. DO NOT FREE FALL BACKFILL INTO TRENCH UNTIL AT LEAST 12 INCHES OF COVER IS OVER THE CONDUIT.

4.6 COMPACTION

- A. COMPACT BACKFILL TO A 95 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
- B. IF REQUIRED COMPACTION DENSITY HAS NOT BEEN OBTAINED, REMOVE THE BACKFILL FROM THE TRENCH OR STRUCTURE, REPLACE WITH APPROVED BACKFILL AND RECOMPACT AS SPECIFIED.
- C. ANY SUBSEQUENT SETTLEMENT OF TRENCH OR STRUCTURE BACKFILL DURING MAINTENANCE PERIOD SHALL BE CONSIDERED THE RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY CORRECTED.

3.11 GRAVEL SURFACING

- A. CONSTRUCT GRAVEL SURFACING AREAS USING CRUSHED AGGREGATE BASE AND FINISH COURSES AS SPECIFIED BY CONSTRUCTION MANAGER OR CONSTRUCTION DOCUMENTS.
- B. SPREAD GRAVEL AND RAKE TO OBTAIN A UNIFORM SURFACE AREA.

4.0 TRENCHING

CALL LOCAL UNDERGROUND UTILITY LOCATING SERVICE BEFORE ANY EXCAVATION OR TRENCHING.

4.1 MATERIALS

FILL MATERIAL SHALL BE OBTAINED, WHEN POSSIBLE FROM MATERIALS EXCAVATED FROM TRENCHES. ON-SITE STRUCTURAL FILL SAND OR SLURRY SHALL BE APPROVED BY THE CONSTRUCTION MANAGER AND SHALL CONFORM TO LOCAL GOVERNING JURISDICTIONS AND UTILITY COMPANY REQUIREMENTS. THE FILL MATERIAL SHALL CONTAIN NO ORGANIC MATERIAL OR ROCKS, NOR SHALL CONTAIN OBJECTIONABLE MATERIALS AND/OR MATERIALS DESIGNATED AS HAZARDOUS OR INDUSTRIAL BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE FILL MATERIAL SHALL CONTAIN FINES SUFFICIENT TO FILL ALL VOIDS IN THE MATERIAL. COMPACTION OF BACKFILL OR BORROW SOIL SHALL BE PLACED IN 12 INCH LOOSE LIFTS WHEN UTILIZING HEAVY COMPACTION EQUIPMENT OR 6 INCH LOOSE LIFTS WHEN UTILIZING HAND OPERATED TAMPERS.

OWNER/APPLICANT FOR:



1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:



CONSULTANT:



SITE NAME:

SA60XC296

FCC NUMBER:

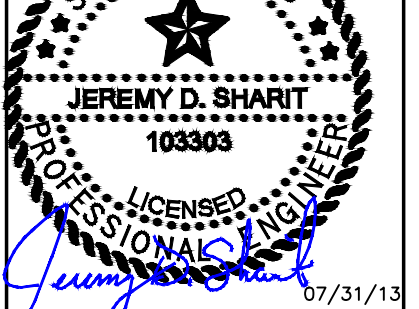
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T-3

10.0 STRUCTURAL STEEL

MEET OR EXCEED MANUFACTURER'S RECOMMENDATIONS.

- A. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
- B. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A-615, GRADE 60, DEFORMED.
- C. HEATING AND WELDING OF BARS IS PROHIBITED WITH THE EXCEPTION OF WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
- D. ALL REINFORCEMENT BARS TO BE FREE FROM LOOSE RUST AND SCALE.
- E. UNLESS OTHERWISE NOTED, ALL REINFORCEMENT SHALL HAVE A MINIMUM CONCRETE COVERAGE OF 3 INCHES. THIS MAY REQUIRE SPACERS AND CHAIRS AS REQUIRED BY TESTING AGENCY OR CONSTRUCTION MANAGER.
- F. SPLICES IN REINFORCEMENT STEEL ARE PROHIBITED, UNLESS APPROVED BY CONSTRUCTION MANAGER. ALL SPLICES MUST THEN MEET ALL APPLICABLE ASTM STANDARDS FOR SPLICING.

11.0 GROUNDING

MEET ALL APPLICABLE CODES, REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND SPRINT WIRELESS CONSTRUCTION SPECIFICATIONS.

GENERAL NOTES:

1. THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, 115, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
3. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THAT REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
5. SITE GROUNDING SHALL COMPLY WITH SPRINT/NEXTEL GROUNDING STANDARDS, LATEST EDITION AND COMPLY WITH SPRINT/NEXTEL GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT, THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF A NEW TOWER.
6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING ARE REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
8. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 24 HOURS OF NOTICE SHOULD BE GIVEN AND THE BUILDING INSPECTION DEPARTMENTS HAVE REQUESTED THAT GROUPS OF TWO OR THREE SITES BE SCHEDULED AT ONE TIME IF POSSIBLE.
10. FOR NEW TOWERS, SPRINT WILL CONFIRM FAA APPROVAL OF TOWER LOCATION BY ISSUING TOWER RELEASE FORM. NO TOWER SHALL BE CONSTRUCTED UNTIL TOWER RELEASE FORM IS ISSUED TO THE CONTRACTOR.
11. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS AND TOWER DRAWINGS/ANALYSIS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
12. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
14. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE KEPT TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR.
15. ALL SUITABLE BORROW MATERIAL FOR BACKFILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.
16. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.
17. PERMITS: THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC. AND PROVIDE E911 ADDRESS TO SPRINT WIRELESS.
18. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS, ETC., BETWEEN THE WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.

11. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES AND GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADE TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE.

12. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE, USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR ANY DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS.

13. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.

14. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.

15. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.

OWNER/APPLICANT FOR:



1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:



728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:



TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:

SA60XC296

FCC NUMBER:

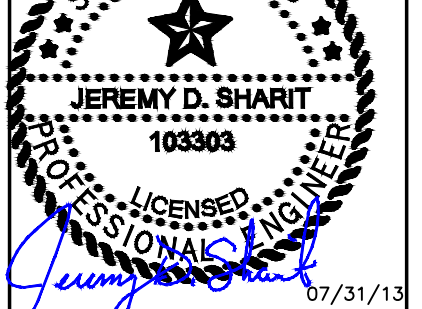
1223931

SITE ADDRESS:

4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:

I CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL TO THE BEST OF MY KNOWLEDGE & BELIEF IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2006 EDITION.



DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

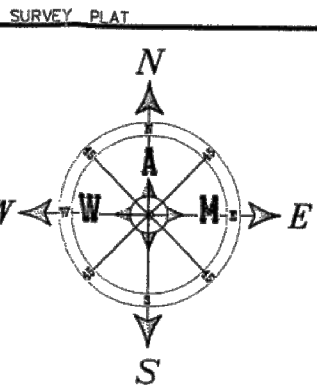
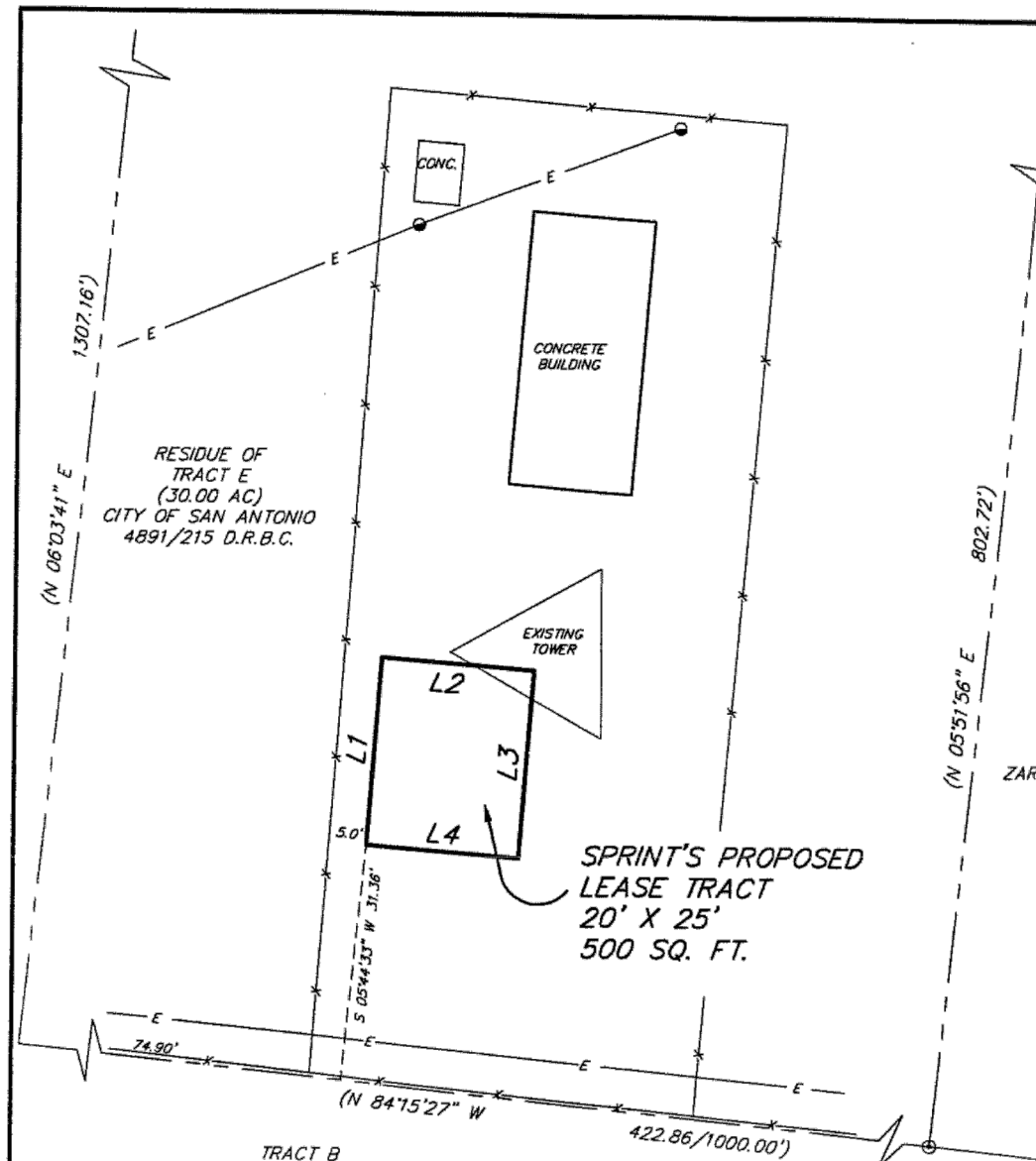
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Δ	SUBMISSION: 100% CD	JDS	01/15/12
Δ	SUB: REV PER RFDS	DCP	07/23/12
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Δ	SUB: REV PER STRUC.	DCP	10/10/12
Δ	SUB: SEALED FINALS	JDS	10/16/12
Δ	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

T-4



LINE	LENGTH	BEARING
L1	25.00	N 04°15'02" E
L2	20.00	S 85°44'58" E
L3	25.00	S 04°15'02" W
L4	20.00	N 85°44'58" W

LOT 1, BLOCK 6, NCB 8786
ZARZAMORA SERVICE CENTER SUBDIVISION
9523/159 P.R.B.C.

PROPOSED LEASE TRACT

LEGAL DESCRIPTION: BEING 500 SQUARE FEET OF LAND LYING IN AND BEING SITUATED OUT OF N.C.B. 8786, IN THE CITY OF SAN ANTONIO, BEXAR COUNTY, TEXAS AND BEING A PORTION OF THE RESIDUE OF THAT CERTAIN 30.00 ACRE TRACT CONVEYED TO THE CITY OF SAN ANTONIO BY DEED RECORDED IN 4891, PAGE 215 OF THE DEED RECORDS OF BEXAR COUNTY, TEXAS; SAID 500 SQUARE FOOT TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING at a point for the southwest corner hereof and from which the southwest corner of said 30.00 acre tract bears South 05°44'33" West a distance of 31.36 feet and North 84°15'27" West a distance of 74.90 feet;

THENCE North 04°15'02" East a distance of 25.00 feet to a point for the northwest corner hereof;

THENCE South 85°44'58" East a distance of 20.00 feet to a point for the northeast corner hereof;

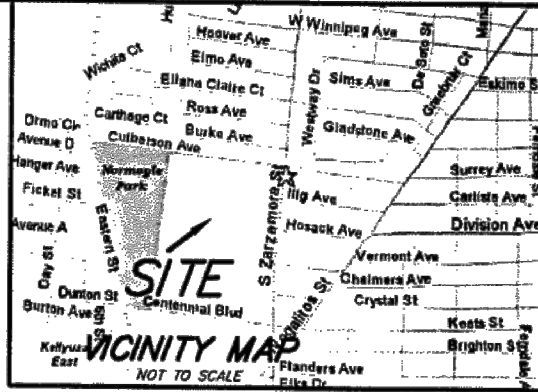
THENCE South 04°15'02" West a distance of 25.00 feet to a point for the southeast corner hereof;

THENCE North 85°44'58" West a distance of 20.00 feet to the POINT OF BEGINNING and containing 500 square feet of land, more or less.

SURVEYOR'S CERTIFICATION

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY.

[Signature]
REGISTERED PROFESSIONAL LAND SURVEYOR #5498
DATE: 10/26/2004



RECORD DESCRIPTION 4891/215 D.R.

BEGINNING at the point of intersection of the South right-of-way of Calhoun Avenue and the West right-of-way of South Zarzamora Street (formerly Aviation Blvd.) thence with the West right-of-way of South Zarzamora Street as follows: South 6 deg. 03 min. 41 sec. West, 1307.16 feet; thence North 84 deg. 15 min. 27 sec. West 1000 feet; thence North 6 deg. 03 min. 41 sec. East 1307.16 feet to the South right-of-way of Calhoun Avenue; thence with South right-of-way of Calhoun Avenue South 84 deg. 15 min. 27 sec. East 1000 feet to point of beginning, containing 30.00 acres of land, more or less.



SPRINT SPECTRUM L.P.
SOUTH CENTRAL REGION SITE DEVELOPMENT
6580 SPRINT PARKWAY
OVERLAND PARK, KS 66251
ATTN: ANITA LAPLANT

CARAWAY COMMUNICATIONS
10098 ROYAL LANE
DALLAS, TEXAS 75328
(214) 340-9893
FAX: (214) 340-9694
ATTN: DWAYNE CARAWAY

SITE: SA60XC296-C

SPRINT RC _____
LANDLORD _____
SPRINT PROPERTY _____
R.F. _____
ZONING _____
CONSTRUCTION _____
NETWORK _____
OPERATIONS _____

TITLE SEARCH: LAND 11, US TITLE SEARCH, INC.
FILE # 8676
SITE # SA60XC296-C
SITE NAME: FIRE ACADEMY
REFERENCE: CARAWAY COMMUNICATIONS INC.
ADDRESS: 4531 S. ZARZAMORA ST.

LEGAL DESCRIPTION: 500 SQUARE FEET OF LAND OUT OF N.C.B. 8786 IN THE CITY OF SAN ANTONIO, BEXAR COUNTY, TEXAS AN BEING A PORTION OF THAT CERTAIN 30.00 ACRE TRACT DESCRIBED IN VOLUME 4891, PAGE 215 OF THE DEED RECORDS OF BEXAR COUNTY, TEXAS
JOB NO.: W-479-04 FIELD BOOK 457/15
DRAFT: JFW REV. 11/8/04
FILE: CARAWAY\SA296 W47904.DWG

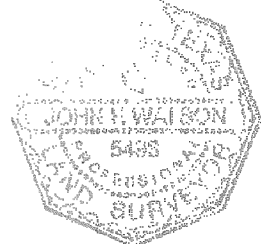
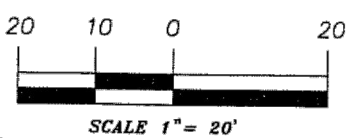
WATSON & ASSOCIATES OF MIDLAND, INC.
CONSULTING ENGINEERS, LAND SURVEYORS & PLANNERS
4500 W. 1142ND ST. P.O. DRAWER 1126
SUITE 201 (79703) MIDLAND, TEXAS 79702
(432) 530-9200 FAX (432) 520-9222
www.watsonmidland.com

SHEET TITLE: SURVEY
SHEET NUMBER: LS-1

- LEGEND**
- FENCE CORNER FOUND
 - IRON ROD FOUND
 - IRON ROD W/ CAP SET
 - BURIED PIPELINE
 - OVERHEAD ELECTRIC LINE
 - CHAIN LINK FENCE
 - E.E. ELECTRIC EASEMENT
 - D.E. DRAINAGE EASEMENT
 - B.L. BUILDING SETBACK LINE
 - (BRG-DIST.) RECORD CALL
 - (R.C.) RESTRICTIVE COVENANTS
 - (TYP.) TYPICAL
 - D.R.B.C. DEED RECORDS OF BEXAR COUNTY
 - POWER POLE
 - BENCHMARK/CONTROL POINT

UTILITY STATEMENT:
THE UTILITIES SHOWN HEREON DO NOT IMPLY NOR INTEND TO BE THE COMPLETE INVENTORY OF THE UTILITIES IN THIS AREA. IT IS THE RESPONSIBILITY OF THE CLIENT TO VERIFY THE LOCATION OF ALL UTILITIES AND PROTECT THEM FROM ANY DAMAGE.

FLOOD STATEMENT:
THE SUBJECT TRACT LIES WITHIN (UNKNOWN), AS SHOWN IN THE FEMA FLOOD INSURANCE RATE MAP, PANEL: 48029C0443E, WHICH IS AN UNPRINTED PANEL MAP ACCORDING TO FEMA/FIRM. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THE ZONE AND AN ELEVATION CERTIFICATE MAY BE REQUIRED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY(FEMA).



OWNER/APPLICANT FOR:
Sprint
1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON COMMUNICATIONS
728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:
SMW ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296

FCC NUMBER:
1223931

SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:
I CERTIFY THAT THE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL TO THE BEST OF MY KNOWLEDGE & BELIEF IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2006 EDITION.

JEREMY D. SHARIT
103303
PROFESSIONAL ENGINEER
07/31/13

DRAWN BY:	JHB	SMW #:	
APPROVED BY:	JDS		11-0802
DATE DRAWN:	08/05/11		
REVISION			
NO	DESCRIPTION	BY	DATE
1	SUBMISSION: 90% CD	JDS	08/05/11
2	SUBMISSION: 100% CD	JDS	01/15/12
3	SUB: REV PER RFDS	DCP	07/23/12
4	SUB: REV PER CLIENT	DCP	08/16/12
5	SUB: REV PER STRUC.	DCP	10/10/12
6	SUB: SEALED FINALS	JDS	10/16/12
7	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A-1

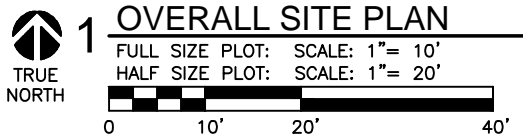
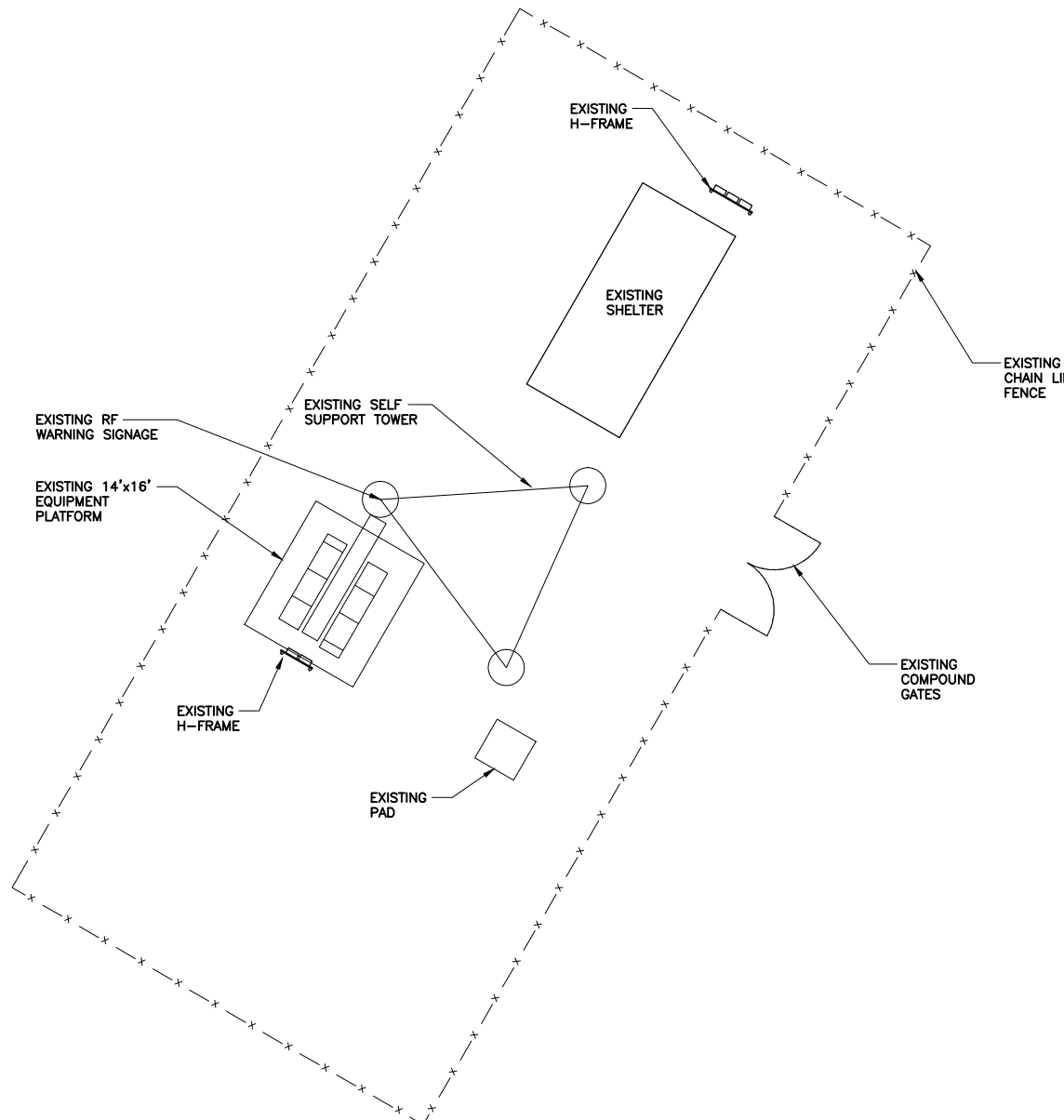
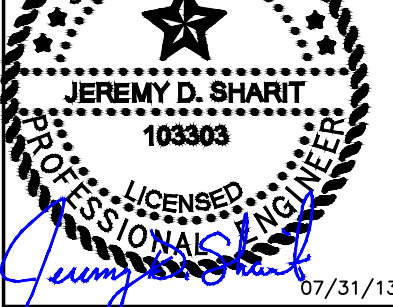
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1 OVERALL SITE PLAN

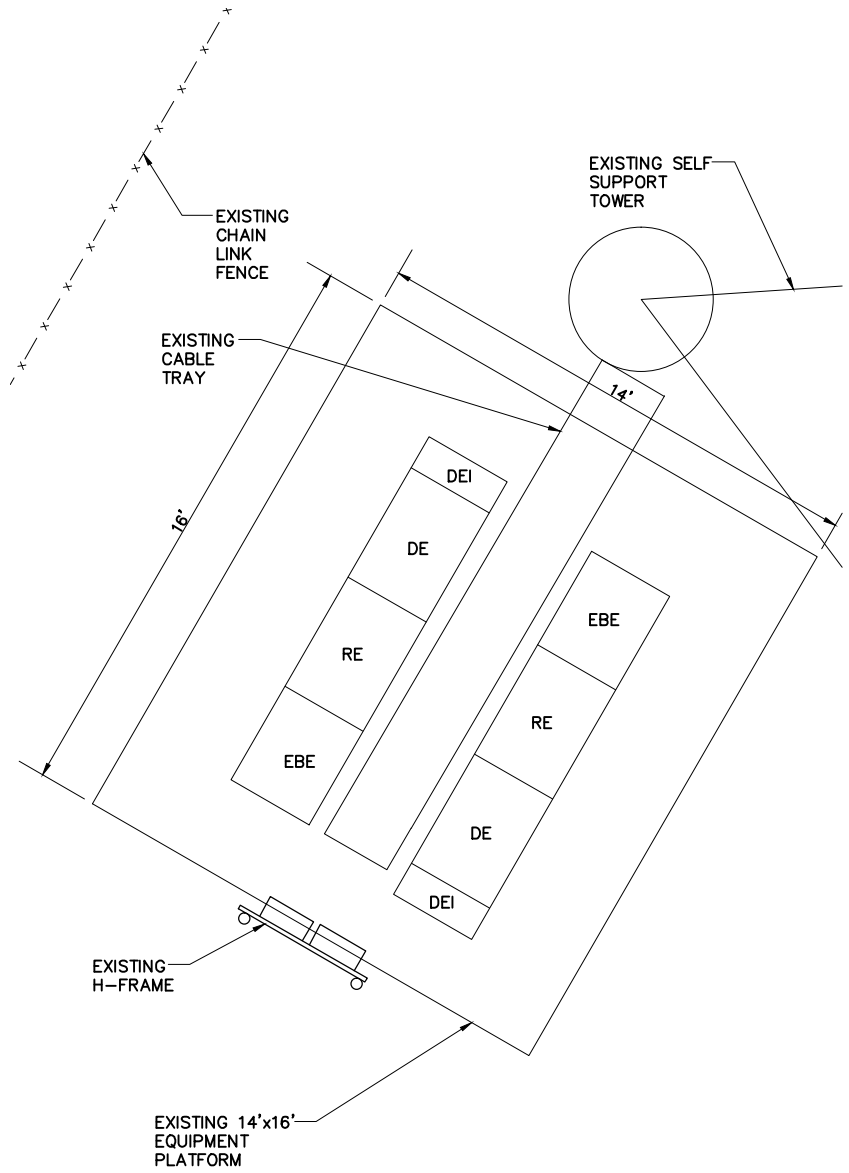
FULL SIZE PLOT: SCALE: 1"= 10'
 HALF SIZE PLOT: SCALE: 1"= 20'

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

REVISION			
NO	DESCRIPTION	BY	DATE
△	SUBMISSION: 90% CD	JDS	08/05/11
△	SUBMISSION: 100% CD	JDS	01/15/12
△	SUB: REV PER RFDS	DCP	07/23/12
△	SUB: REV PER CLIENT	DCP	08/16/12
△	SUB: REV PER STRUC.	DCP	10/10/12
△	SUB: SEALED FINALS	JDS	10/16/12
△	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
ENLARGED SITE PLAN

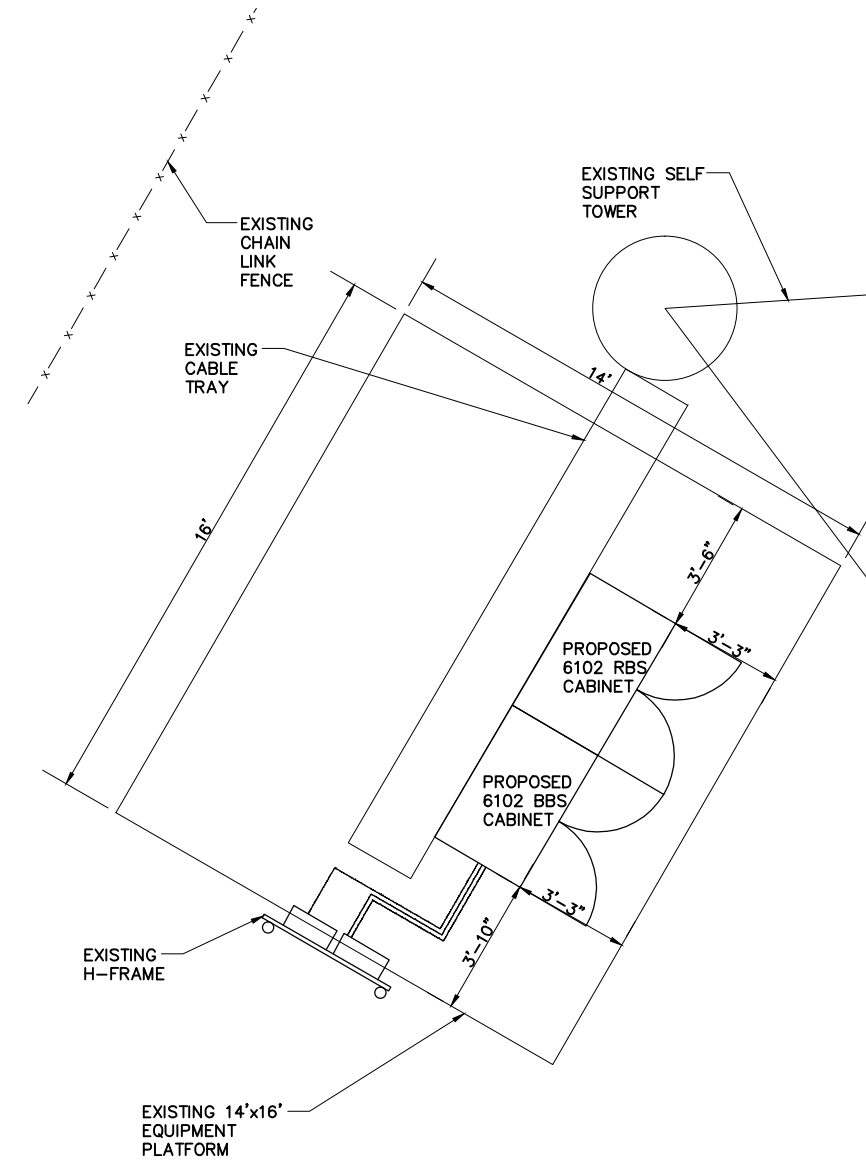
SHEET NUMBER:
A-2



NOTE:
COLD SWAP SOLUTION;
NO TEMP PHASE

1 EQUIPMENT SITE PLAN (EXISTING)
 FULL SIZE PLOT: SCALE: 3/8" = 1'-0"
 HALF SIZE PLOT: SCALE: 3/16" = 1'-0"
 0 1' 2'

2 NOT USED
 SCALE: N.T.S.
 TRUE NORTH



3 EQUIPMENT SITE PLAN (FINAL)
 FULL SIZE PLOT: SCALE: 3/8" = 1'-0"
 HALF SIZE PLOT: SCALE: 3/16" = 1'-0"
 0 1' 2' 4' 8'

NOTE:
ALL EXISTING HOLES IN GRATING TO BE COVERED BY 3/8" GALV PLATE. MULTIPLE SMALL HOLES TO BE COVERED BY ONE PLATE. (SEE DETAIL 3/A-8)

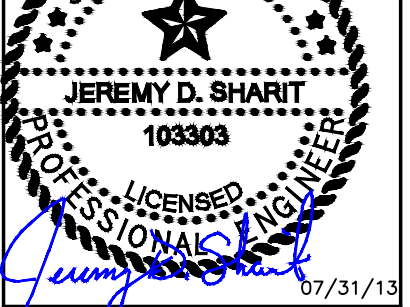
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 1 INTERNATIONAL BOULEVARD
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 MAHWAH, N.J. 07495

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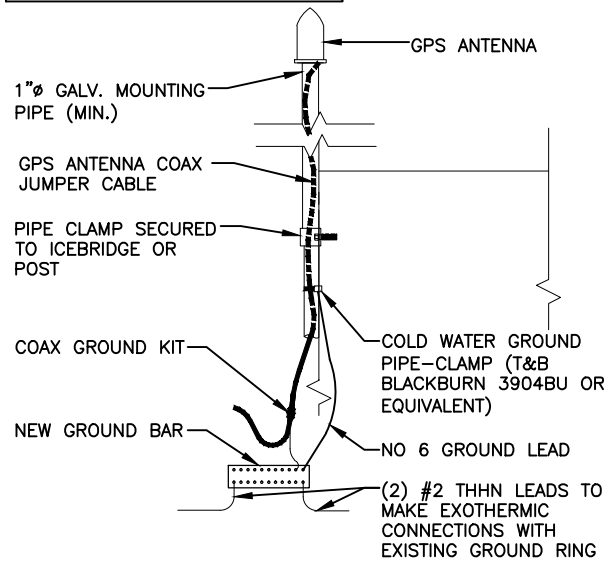
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NO	DESCRIPTION	BY	DATE
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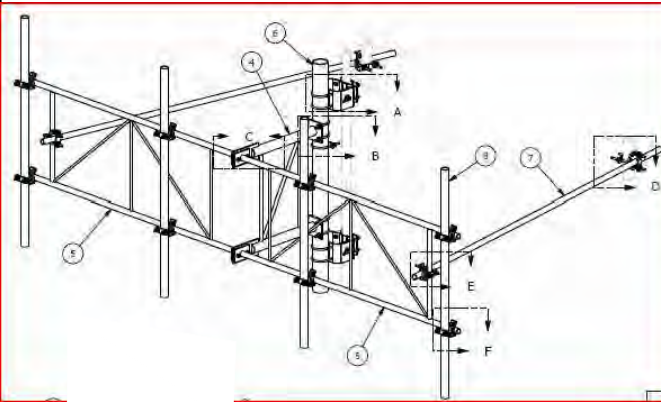
SHEET TITLE:
EQUIPMENT PLANS

SHEET NUMBER:
A-3

MANUFACTURER: ERICSSON
 MODEL#: KRE 101 2082/1
 DIMENSIONS: 5.0"H x 3.2"D
 WEIGHT: 0.6 LBS.

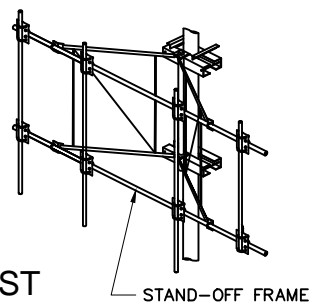


4 GPS ANTENNA DETAIL
 SCALE: NOT TO SCALE



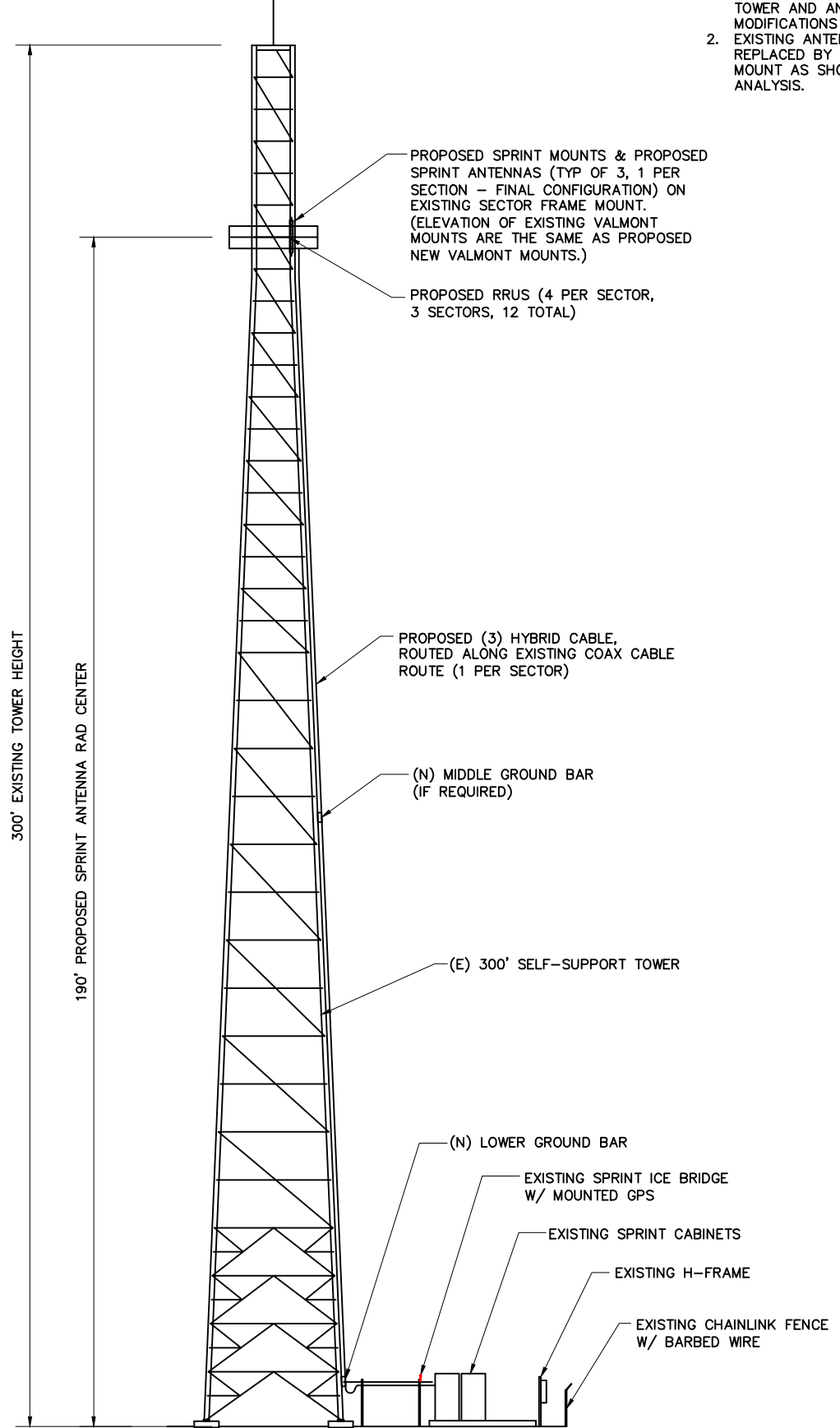
3 SST ANTENNA MOUNT (PROPOSED)
 VALMONT MODEL NO. LTF15-472
 SCALE: NOT TO SCALE

NOTE:
 SEE DETAIL ON A-10 FOR ANTENNA,
 RRU AND OTHER EQUIPMENT.



2 SST ANTENNA MOUNT (EXISTING)
 SCALE: NOT TO SCALE

TOTAL TOWER HEIGHT
 WITH APPURTENANCES
 ELEV = 305' AGL



1 SITE ELEVATION
 SCALE: NOT TO SCALE

NOTES:

1. STRUCTURAL ANALYSIS RESULTS SHOW TOWER AND ANTENNA MOUNT MODIFICATIONS ARE NEEDED.
2. EXISTING ANTENNA MOUNTS TO BE REPLACED BY THE PROPOSED ANTENNA MOUNT AS SHOWN ON STRUCTURAL ANALYSIS.

NOTES:

1. CONTRACTOR TO FIELD VERIFY ANTENNA CABLE LENGTHS.
2. ALL MAIN CABLES WILL BE COLOR CODED AT THREE (3) LOCATIONS.
3. COLOR CODE ALL ANTENNA AND COAX WITH 2" WIDE BANDS OF COLORED TAPE WITH 1" SEPARATION BETWEEN BANDS.
4. COLOR CODE ALL TOP AND BOTTOM GROUND KITS WITH 1" WIDE BANDS OF COLORED TAPE WITH 1/2" SEPARATION BETWEEN BANDS.
5. START COLOR BANDS 2" BEYOND WEATHERPROOFING.
6. START SECTOR COLOR NEXT TO END CONNECTOR.
7. ALL MAIN CABLES WILL BE GROUNDED W/ COAXIAL CABLE GROUND KITS AT:
 - THE ANTENNA LEVEL
 - MID LEVEL IF TOWER IS OVER 200'
 - BASE OF TOWER PRIOR TO TURNING HORIZONTAL
 - TERMINATION OF COAX LINES TO JUMPERS
8. ALL NEW GROUND BAR DOWNLOADS ARE TO BE CADWELDED TO THE EXISTING ADJACENT GROUND BAR DOWNLOADS A MINIMUM DISTANCE OF 4FT BELOW GROUND BAR
9. PROVIDE BUSS BAR NEAR BTS FOR ATTACHMENT OF WIMAX COAX GROUND KITS

COAXIAL ANTENNA CABLE NOTES:

1. THE ANTENNA COAXIAL CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE SPRINT RADIO FREQUENCY (RF) ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE/
2. THE COAXIAL ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING SPRINT WITH 3 TYPEWRITTEN TIME DOMAIN REFLECTOMETER (TDR) TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.
3. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.
4. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" JUMPERS AND SHALL NOT EXCEED 6'-0". MAXIMUM LENGTH FOR THE JUMPERS AT WIMAX BTS UNITS WILL BE 6'-0".
5. IF COAX IS BEING RE-USED FOR THIS INSTALLATION, PRE AND POST ANTENNA LINE SWEEPS ARE REQUIRED.
6. UPON COMPLETION, PROVIDE A HEIGHT VERIFICATION DEPICTING RAD CENTER AND TOP OF ANTENNA.

ANTENNA MOUNTING NOTES:

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/EIA/TIA-222; APPENDIX B FOR WIND LOADING; "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES" OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
6. MINIMUM HORIZONTAL SPACING SHALL BE 2'-0" BETWEEN ALL ANTENNAS.

NOTES:

1. ALL AZIMUTHS ARE TO BE ESTABLISHED CLOCKWISE FROM THE TRUE NORTH HEADING.
2. CONTRACTOR SHALL VERIFY PROPOSED ANTENNA RAD CENTER AND ORIENTATIONS WITH SPRINT PCS PRIOR TO INSTALLATION OF ANTENNAS.
3. PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, EXISTING TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE PROPOSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS.
4. CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
5. CONTRACTOR TO REFER TO MOUNT MAPPING, P.E. LETTER AND STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION START.

OWNER/APPLICANT FOR:



1 INTERNATIONAL BOULEVARD
 SUITE #800
 MAHWAH, N.J. 07495

SITE ACQ.:



728 Shades Creek PKWY
 Suite 120
 Homewood, AL 35209
 Tel: (205) 682-7525

CONSULTANT:



TOGETHER PLANNING A BETTER TOMORROW
 158 BUSINESS CENTER DRIVE
 BIRMINGHAM, AL 35244
 TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:

SA60XC296

FCC NUMBER:

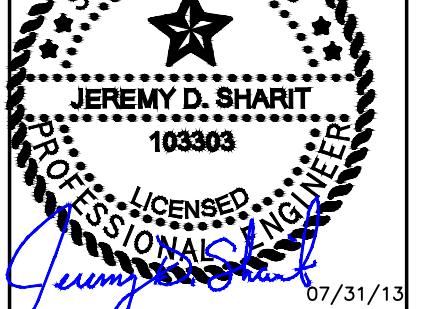
1223931

SITE ADDRESS:

4719 S ZARZAMORA
 SAN ANTONIO, TX 78225
 BEXAR COUNTY SHERIFF OFFICE

STAMP:

I CERTIFY THAT THE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL TO THE BEST OF MY KNOWLEDGE & BELIEF IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2006 EDITION.



DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

REVISION			
NO	DESCRIPTION	BY	DATE
Δ	SUBMISSION: 90% CD	JDS	08/05/11
Δ	SUBMISSION: 100% CD	JDS	01/15/12
Δ	SUB: REV PER RFDS	DCP	07/23/12
Δ	SUB: REV PER CLIENT	DCP	08/16/12
Δ	SUB: REV PER STRUC.	DCP	10/10/12
Δ	SUB: SEALED FINALS	JDS	10/16/12
Δ	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
**SITE ELEVATION &
 ANTENNA DETAILS**

SHEET NUMBER:

A-4

Revision:	B1
Date:	7/12/2012

RFDS Phase

Cascade	SA60XC296
Market	SanAntonio
MTX/BSC	SA-SAN_ANTONIO-BSC_2.1
Lat	29.3791
Lon	-98.53860
Structure Type	SELF SUPPORT

	RBS1	RBS2
Existing BTS #		
New BTS #		
Existing Cell ID	596	
New Cell ID		
RBS Cabinet Type	Outdoor	

Number of Sectors:	3
--------------------	---

ANTENNA #1 (800 MHz & 1900 MHz Dual Band)						
	Sector1	Sector2	Sector3	Sector4	Sector5	Sector6
Vendor	RFS	RFS	RFS			
Model	APXVERR18-C-2-1910I	APXVERR18-C-4-1910I	APXVERR18-C-7-1910I			
Antenna Band Type	Dual	Dual	Dual			
Antenna Count	1	1	1			
Gain (dBi)	17.8	17.8	17.8			
Beamwidth	69	69.4	69.4			
Azimuth	330	60	160			
Height (ft)	190	190	190			
Mech. Downtilt	0	0	0			
Elect. Downtilt 1900	2	4	7			
Elect. Downtilt 800	10	6	10			
EIRP (W)	250	250	250			
RET Count	3	3	3			
RET Manufacturer	RFS	RFS	RFS			
RET Model	ACU-A20-N	ACU-A20-N	ACU-A20-N			

Existing Antenna (For GM No Touch Sites Only)						
	Sector1	Sector2	Sector3	Sector4	Sector5	Sector6
Vendor						
Model						
Antenna Band Type						
Antenna Count						
Gain (dBi)						
Beamwidth						
Azimuth						
Height						
Mech. Downtilt						
Elect. Downtilt						
EIRP (W)						
RET Count						
RET Manufacturer						
RET Model						

ANTENNA #3 (800 MHz)						
	Sector1	Sector2	Sector3	Sector4	Sector5	Sector6
Vendor						
Model						
Antenna Band Type						
Antenna Count						
Gain (dBi)						
Beamwidth						
Azimuth						
Height						
Mech. Downtilt						
Elect. Downtilt						
EIRP (W)						
RET Count						
RET Manufacturer						
RET Model						
Antenna Count Per Sector	1	1	1	0	0	0

EQUIPMENT SCHEDULES ARE BASED ON RFD SA60XC296_RFDS_vB1_20120712

OWNER/APPLICANT FOR:



1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:



728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:



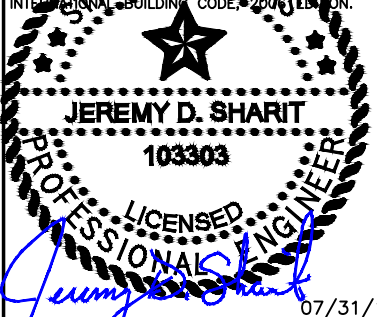
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296

FCC NUMBER:
1223931

SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:
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07/31/13

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	
REVISION		
DESCRIPTION	BY	DATE
SUBMISSION: 90% CD	JDS	08/05/11
△ SUBMISSION: 100% CD	JDS	01/15/12
△ SUB: REV PER RFDS	DCP	07/23/12
△ SUB: REV PER CLIENT	DCP	08/16/12
△ SUB: REV PER STRUC.	DCP	10/10/12
△ SUB: SEALED FINALS	JDS	10/16/12
△ SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
ANTENNA SCHEDULE

SHEET NUMBER:
A-5

EQUIPMENT SCHEDULES ARE BASED ON RFD SA60XC296_RFDS_vB1_20120712

OWNER/APPLICANT FOR:
Sprint
 1 INTERNATIONAL BOULEVARD
 SUITE #800
 MAHWAH, N.J. 07495

CABLING						
	Sector1	Sector2	Sector3	Sector4	Sector5	Sector6
Est. Cable Length (feet)	205	205	205			
Number of Cables	1	1	1			
Cable1 Diameter	39 mm	39 mm	39 mm			
Cable1 Type	Hybrid Cable	Hybrid Cable	Hybrid Cable			
Cable1 Manufacturer	H+S	H+S	H+S			
Cable1 Model	TSZ 999 067xxxxM	TSZ 999 067xxxxM	TSZ 999 067xxxxM			
Number of Cables	0	0	0			
Cable2 Diameter	39 mm	39 mm	39 mm			
Cable2 Type	Hybrid Cable	Hybrid Cable	Hybrid Cable			
Cable2 Manufacturer	H+S	H+S	H+S			
Cable2 Model	TSZ 999 068xxxxM	TSZ 999 068xxxxM	TSZ 999 068xxxxM			
Top Jumper Length	3 m	3 m	3 m			
Top Jumper Type	TSR 951 70:3	TSR 951 70:3	TSR 951 70:3			
Cable Type						
Cable Manufacturer						
Cable Model						
Total Power Cables						
Cable Type	Fiber OPTO	Fiber OPTO	Fiber OPTO			
Cable Manufacturer	Ericsson	Ericsson	Ericsson			
Cable Model	RPM 253 469 2xxxxx	RPM 253 469 2xxxxx	RPM 253 469 2xxxxx			
Total Opto Cables	8	8	8			
Coax Cable - Main - Type						
Coax Cable - Main - Length						
Coax Cable - Main - Count						
Coax Cable - Main - Manufacturer						
Coax Cable - Main - Model						
Coax Cable - Top Jumper - Type						
Coax Cable - Top Jumper - Length						
Coax Cable - Top Jumper - Count						
Coax Cable - Top Jumper - Manufacturer						
Coax Cable - Top Jumper - Model						
Coax Cable - Bottom Jumper - Type						
Coax Cable - Bottom Jumper - Length						
Coax Cable - Bottom Jumper - Count						
Coax Cable - Bottom Jumper - Manufacturer						
Coax Cable - Bottom Jumper - Model						

RRU Count						
	Sector1	Sector2	Sector3	Sector4	Sector5	Sector6
RRJ5 11 Single	4	4	4			
RRJ5 12 Single	0	0	0			
RRJ5 12 Dual	0	0	0			
RRJ5 13 Single	0	0	0			
RRJ5 13 Dual	0	0	0			
RRJ5 A2 Module	1	1	1			
RRU Count - Detailed Breakdown						
	Sector1	Sector2	Sector3	Sector4	Sector5	Sector6
RRJ5 11						
CDMA - 800	1	1	1			
CDMA - 1900	2	2	2			
LTE - 800	0	0	0			
LTE - 1900	0	0	0			
LTE - 2500	1	1	1			
RRJ5 12						
CDMA/ LTE - 800	0	0	0			
CDMA/ LTE - 1900	0	0	0			
LTE - 1600	0	0	0			
LTE - 2500	0	0	0			
RRJ5 13						
CDMA/ LTE - 800	0	0	0			
CDMA/ LTE - 1900	0	0	0			
LTE - 1600	0	0	0			
LTE - 2500	0	0	0			
RRJ5 11 Count	4	4	4			
RRJ5 12 Count	0	0	0			
RRJ5 13 Count	0	0	0			

Combiners						
	Sector1	Sector2	Sector3	Sector4	Sector5	Sector6
Count	1	1	1			
Manufacturer	RFS	RFS	RFS			
Model	IBC1900HG-1	IBC1900HG-1	IBC1900HG-1			
Gain (dB)	3-9 dB	3-9 dB	3-9 dB			
800 MHz FILTER						
	Sector1	Sector2	Sector3	Sector4	Sector5	Sector6
Count	1	1	1			
Manufacturer	Ericsson	Ericsson	Ericsson			
Model	800 ESMR	800 ESMR	800 ESMR			

	Count	Model
RBS	1	5132
BBS	1	5132
R/W 20p		
R/W 20p BBS		

GPS INFO		
	GPS	Cable
Vendor	Ericsson	
Model	GPS-TMG-FR26MC1	
Type		
Diameter		

Carrier Information	Carriers	Frequencies	Start/Stop Freqs		Channel Element Counts		
			Tx (MHz)	Rx (MHz)	Total	32 Blocks	Per Carrier
1x ADV-800	1		862 275-883.525	817 275-818.525	192	6	192
EVDO-800	0				0	0	0
1x ADV-1900	4	10.25.275	1830.625-1844.375	1850.525-1864.375	768	24	192
EVDO-1900	2	175.225	1830.625-1844.375	1850.525-1864.375	384	12	192
LTE 1900	1		1550.000-1995.000	1910.000-1915.000			
LTE 1500							
Total 800	1						
Total 1900	5						

RBS Configuration				
RBS Modules	RBS1		RBS2	
	Count	Model	Count	Model
DBU	0		0	
DBA	3		0	
CEEM	0		0	
DUL	4		0	
R/W	3		0	

T1 COUNTS	
CDMA 800	1
CDMA 1900	2
EVDO 800	0
EVDO 1900	5
LTE	0

1900 3G Radio Config	
Radio Number	Freq Vect
Radio 1	200:175:75
Radio 2	25:275:225
Radio 3	
Radio 4	0

MICROWAVE DSH													
Ant	Height	Antenna	Diameter	Comment	Tot	Tower Mount	Mode	Cable Type	Freq (MHz)	Vendor	Cable Length		
# of :													
MICROWAVE RADIC													
Ant	Height	Radio	Comment	Tot	Tower Mount	Mode	Cable Type	Freq (MHz)	Vendor	Cable Length			
# of :													

SITE ACQ.:
CRAFTON
 COMMUNICATIONS
 728 Shades Creek PKWY
 Suite 120
 Homewood, AL 35209
 Tel: (205) 682-7525

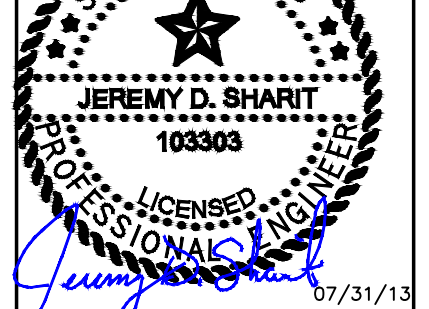
CONSULTANT:
SMW
 ENGINEERING GROUP, INC.
 TOGETHER PLANNING A BETTER TOMORROW
 158 BUSINESS CENTER DRIVE
 BIRMINGHAM, AL 35244
 TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296

FCC NUMBER:
1223931

SITE ADDRESS:
 4719 S ZARZAMORA
 SAN ANTONIO, TX 78225
 BEXAR COUNTY SHERIFF OFFICE

STAMP:
 I CERTIFY THAT THE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL TO THE BEST OF MY KNOWLEDGE & BELIEF IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2009 EDITION.



07/31/13
 DRAWN BY: JHB SMW #:
 APPROVED BY: JDS 11-0802
 DATE DRAWN: 08/05/11

REVISION		
NO	DESCRIPTION	BY DATE
△	SUBMISSION: 90% CD	JDS 08/05/11
△	SUBMISSION: 100% CD	JDS 01/15/12
△	SUB: REV PER RFDS	DCP 07/23/12
△	SUB: REV PER CLIENT	DCP 08/16/12
△	SUB: REV PER STRUC.	DCP 10/10/12
△	SUB: SEALED FINALS	JDS 10/16/12
△	SUB: REV. FINALS	JDS 07/31/13

SHEET TITLE:
EQUIPMENT SCHEDULES

SHEET NUMBER:
A-6

EQUIPMENT SCHEDULES ARE BASED ON
RFD SA60XC296_RFDS_vB1_20120712

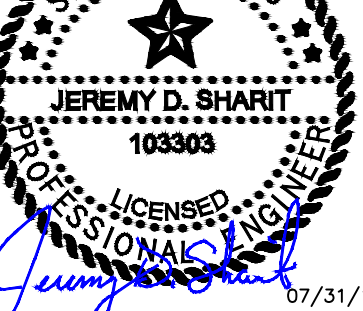
OWNER/APPLICANT FOR:
Sprint
1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON COMMUNICATIONS
728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:
SMW ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
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4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

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BY ME OR UNDER MY DIRECT SUPERVISION &
CONTROL TO THE BEST OF MY KNOWLEDGE &
BELIEF IN ACCORDANCE WITH THE REQUIREMENTS OF THE
INTERNATIONAL BUILDING CODE, 2006 EDITION.

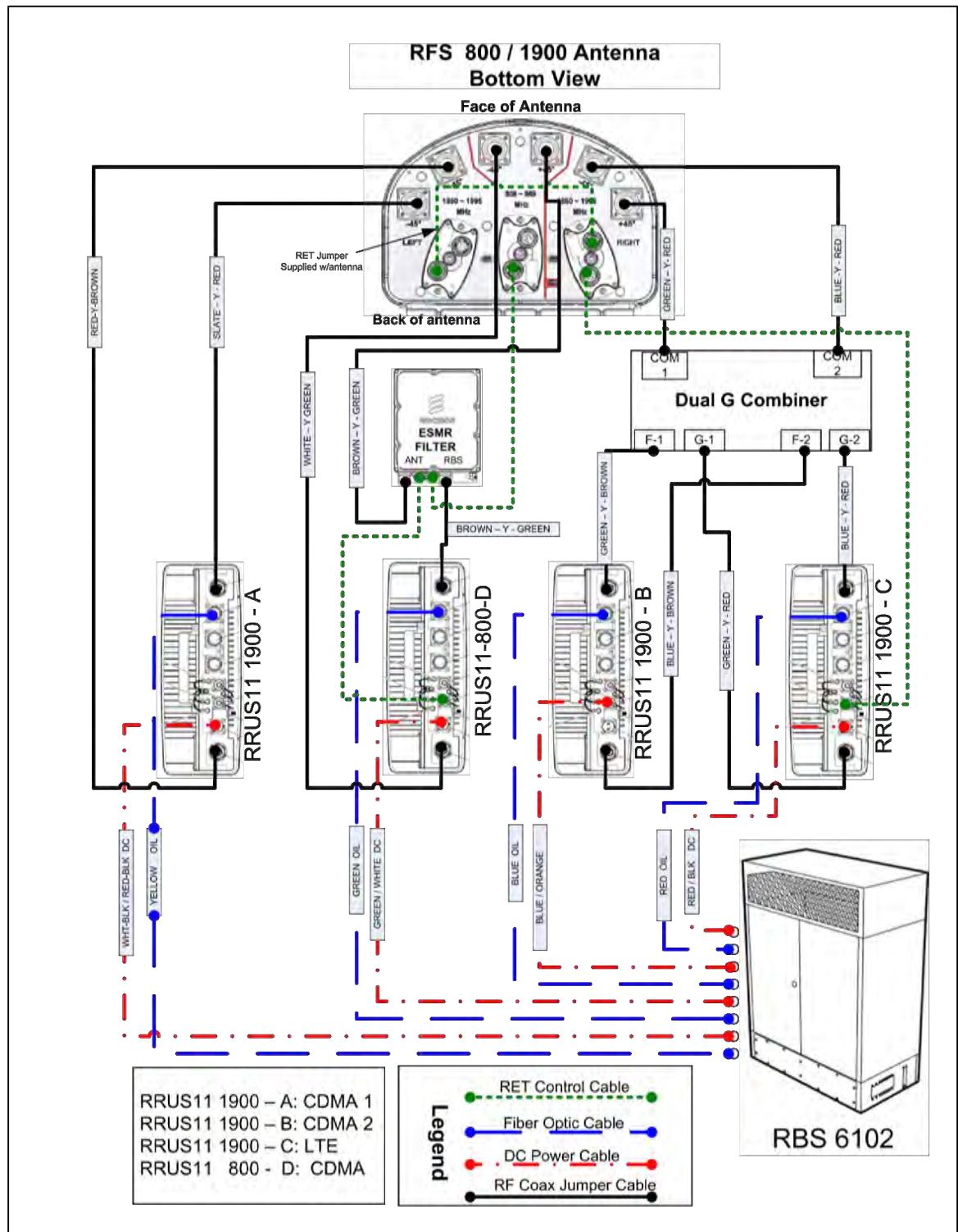


07/31/13
DRAWN BY: JHB SMW #:
APPROVED BY: JDS 11-0802
DATE DRAWN: 08/05/11

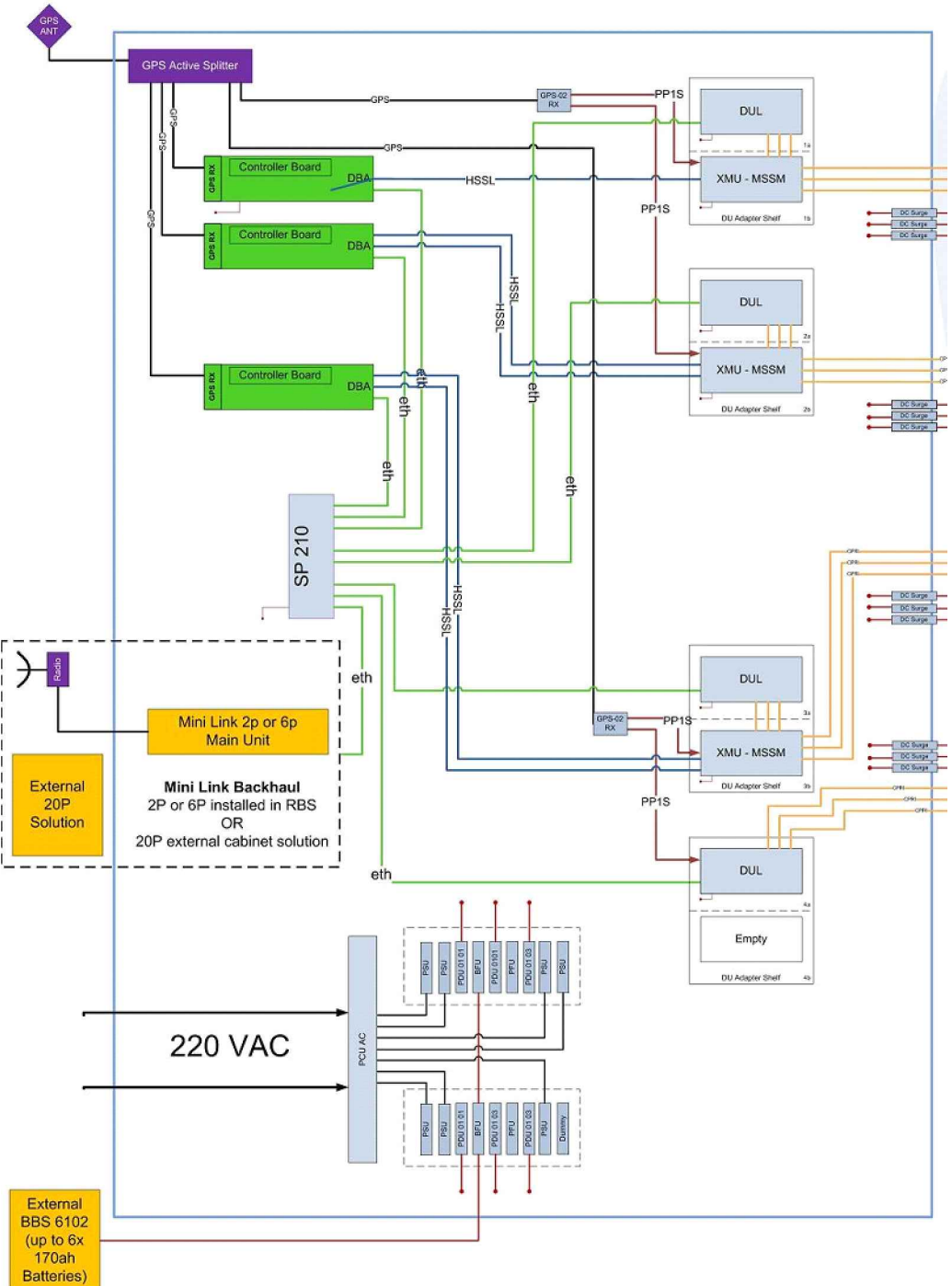
REVISION		
NO	DESCRIPTION	BY DATE
△	SUBMISSION: 90% CD	JDS 08/05/11
△	SUBMISSION: 100% CD	JDS 01/15/12
△	SUB: REV PER RFDS	DCP 07/23/12
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△	SUB: REV PER STRUC.	DCP 10/10/12
△	SUB: SEALED FINALS	JDS 10/16/12
△	SUB: REV. FINALS	JDS 07/31/13

SHEET TITLE:
ANTENNA PLUMBING DIAGRAMS

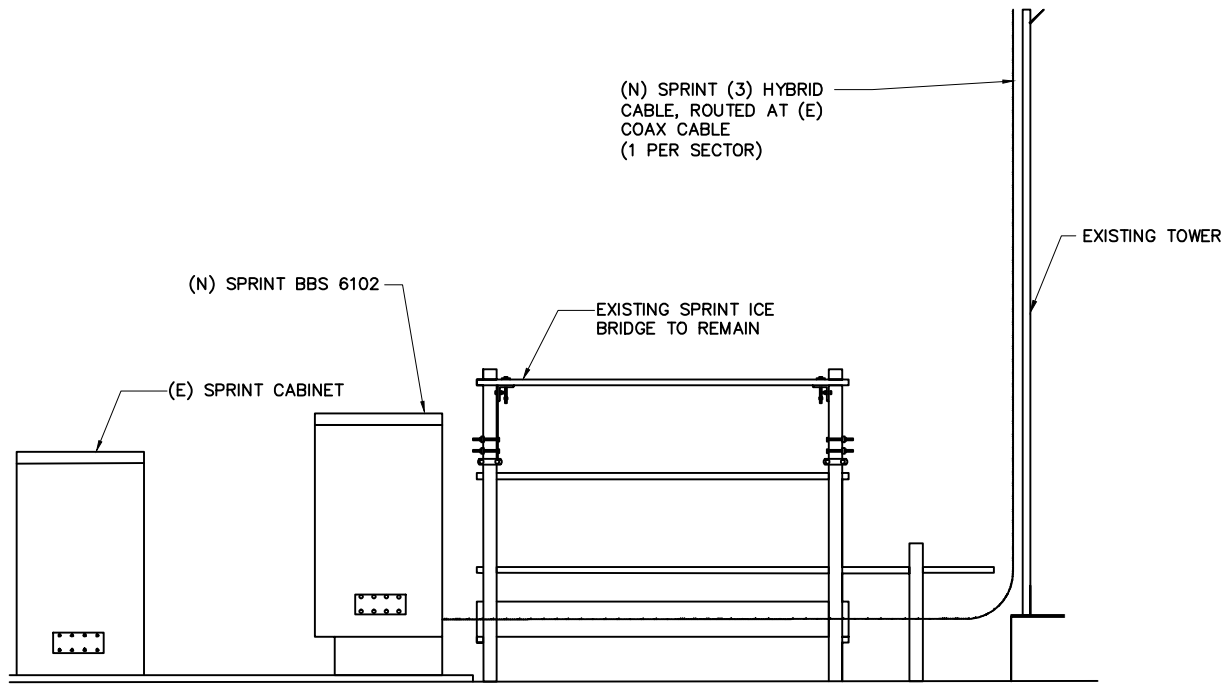
SHEET NUMBER:
A-7



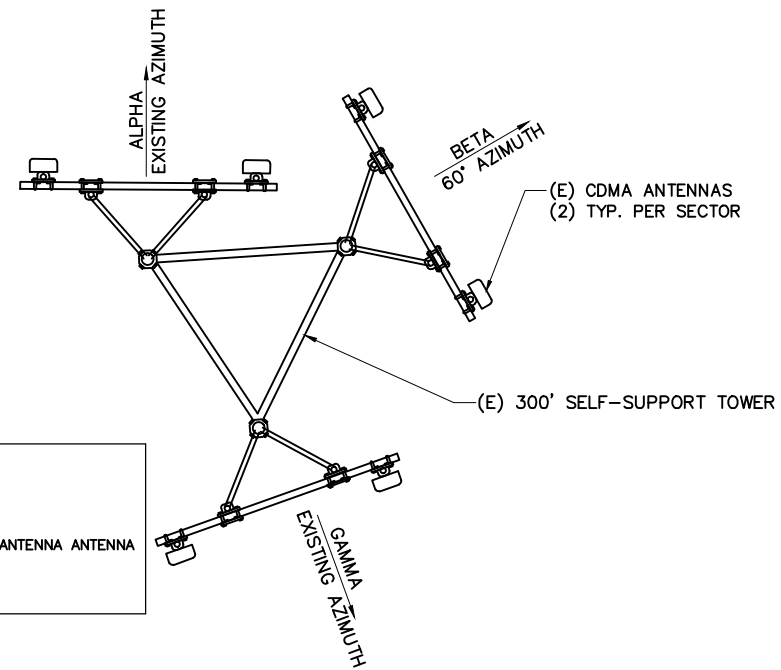
1 RFS ANTENNA PLUMBING DIAGRAM
SCALE: NOT TO SCALE



2 RBS PLUMBING DIAGRAM
SCALE: NOT TO SCALE



1 COAX RUN DIAGRAM
SCALE: NOT TO SCALE
TRUE NORTH

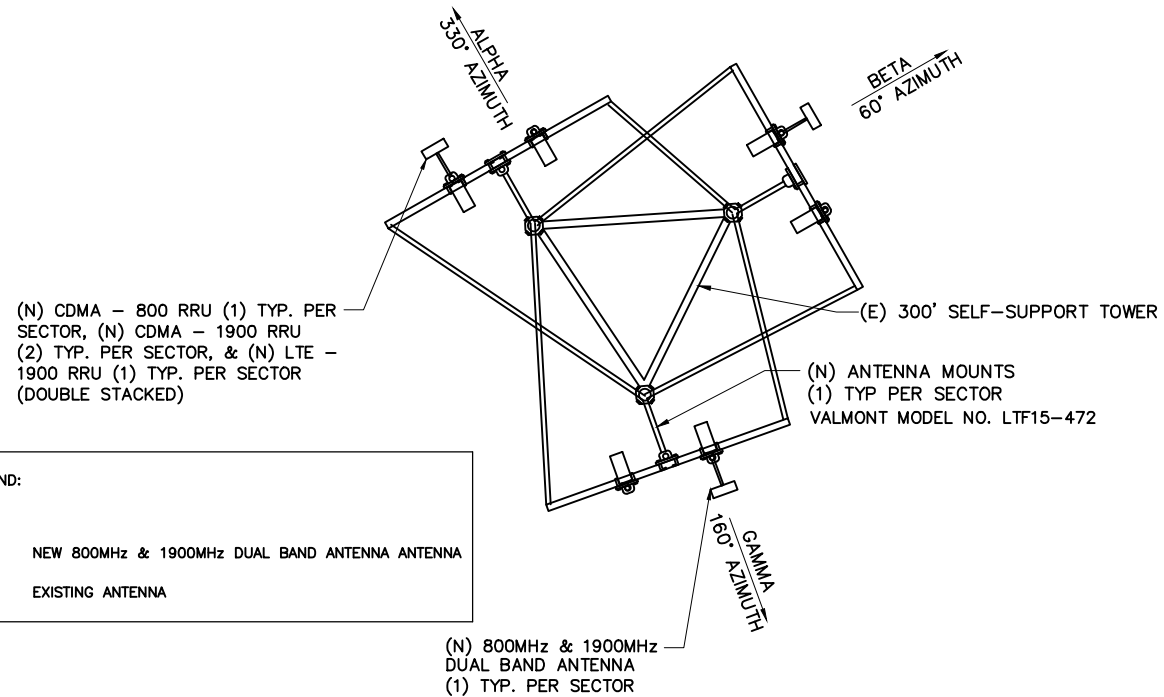


LEGEND:
 □ NEW 800MHz & 1900MHz DUAL BAND ANTENNA
 □ EXISTING ANTENNA

ALL EXISTING TO BE REMOVED FROM TOWER BEFORE ANY NEW CAN BE PLACED ON TOWER

2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE
TRUE NORTH

THERE NOT BE A TEMPORARY PLAN. ALL EXISTING ANTENNAS AND COAX WILL NEED TO BE REMOVED BEFORE AND NEW HYBRIDS OR ANTENNAS CAN BE PLACED ON TOWER



LEGEND:
 □ NEW 800MHz & 1900MHz DUAL BAND ANTENNA
 □ EXISTING ANTENNA

4 PROPOSED ANTENNA PLAN - FINAL
SCALE: NOT TO SCALE
TRUE NORTH

3 NOT USED
SCALE: N.T.S.
TRUE NORTH

OWNER/APPLICANT FOR:
Sprint
 1 INTERNATIONAL BOULEVARD
 SUITE #800
 MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON COMMUNICATIONS
 728 Shades Creek PKWY
 Suite 120
 Homewood, AL 35209
 Tel: (205) 682-7525

CONSULTANT:
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 TOGETHER PLANNING A BETTER TOMORROW
 158 BUSINESS CENTER DRIVE
 BIRMINGHAM, AL 35244
 TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
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 SAN ANTONIO, TX 78225
 BEXAR COUNTY SHERIFF OFFICE

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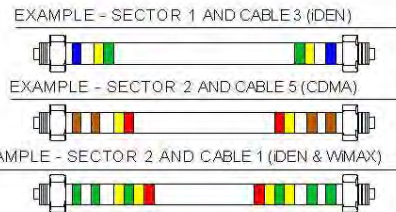
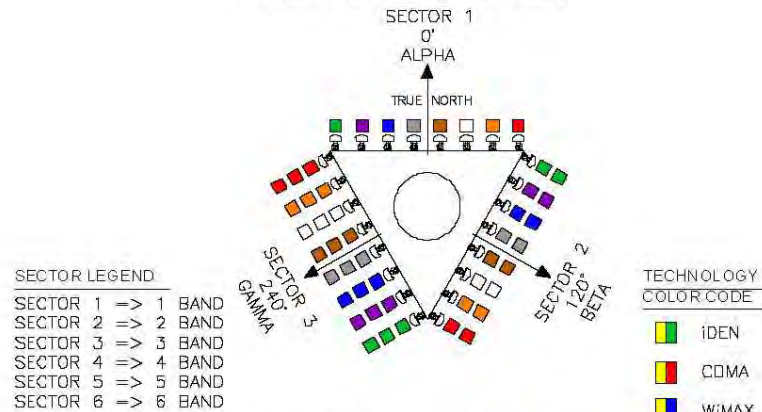
JEREMY D. SHARIT
 103303
 PROFESSIONAL ENGINEER
 07/31/13

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	
REVISION		
NO	DESCRIPTION	BY DATE
△	SUBMISSION: 90% CD	JDS 08/05/11
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△	SUB: REV PER RFDS	DCP 07/23/12
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△	SUB: SEALED FINALS	JDS 10/16/12
△	SUB: REV. FINALS	JDS 07/31/13

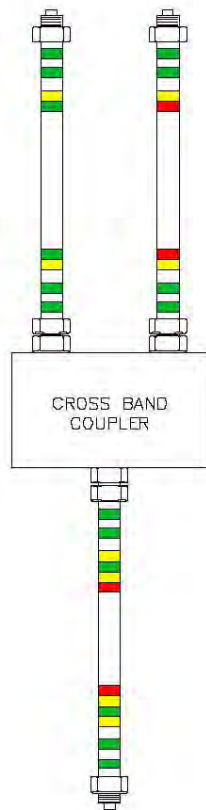
SHEET TITLE:
 ENLARGED ANTENNA PLANS &
 COAX RUN DIAGRAM

SHEET NUMBER:
A-8

ANTENNA AND CABLE
COLOR CODING
(3 SECTORED / MULTIPLE RF CHANNELS)
ASSUMING 8 LINES AND ANTENNAS



- COLOR BAND TO BE 2" WIDE ON MAIN LINE.
- SPACING TO BE 1" BETWEEN BANDS AND 2" BETWEEN LINE AND TECHNOLOGY BANDS. NO SPACE BETWEEN TECHNOLOGY COLOR BANDS.
- COLOR BAND ON JUMPERS 1" WIDE W/ 1" SPACE.
- START COLOR BANDS 2" BEYOND WEATHERPROOFING.
- START SECTOR COLOR NEXT TO END CONNECTOR.



3 ANTENNA & CABLE COLOR CODE
SCALE: N.T.S.

SECTOR	CABLE	FIRST RING	SECOND RING	THIRD RING
1 ALPHA	1	GREEN	NO TAPE	NO TAPE
1	2	BLUE	NO TAPE	NO TAPE
1	3	BROWN	NO TAPE	NO TAPE
1	4	WHITE	NO TAPE	NO TAPE
1	5	RED	NO TAPE	NO TAPE
1	6	SLATE	NO TAPE	NO TAPE
1	7	PURPLE	NO TAPE	NO TAPE
1	8	ORANGE	NO TAPE	NO TAPE
2 BETA	1	GREEN	GREEN	NO TAPE
2	2	BLUE	BLUE	NO TAPE
2	3	BROWN	BROWN	NO TAPE
2	4	WHITE	WHITE	NO TAPE
2	5	RED	RED	NO TAPE
2	6	SLATE	SLATE	NO TAPE
2	7	PURPLE	PURPLE	NO TAPE
2	8	ORANGE	ORANGE	NO TAPE
2 BETA	1	GREEN	GREEN	GREEN
2	2	BLUE	BLUE	BLUE
2	3	BROWN	BROWN	BROWN
2	4	WHITE	WHITE	WHITE
2	5	RED	RED	RED
2	6	SLATE	SLATE	SLATE
2	7	PURPLE	PURPLE	PURPLE
2	8	ORANGE	ORANGE	ORANGE

5 COAXIAL CABLE COLOR CODE
SCALE: N.T.S.

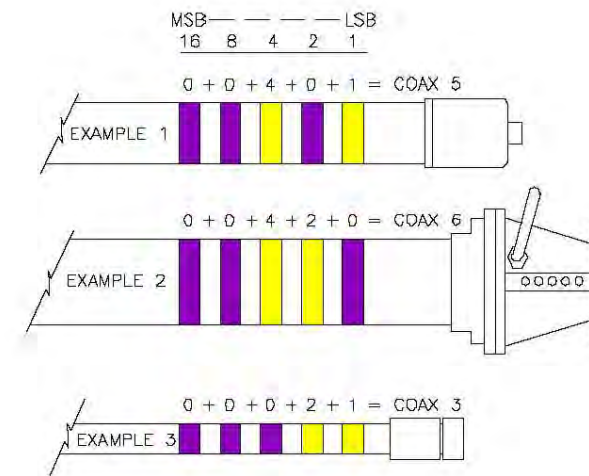
FREQUENCY COLOR CODE		
TECHNOLOGY COLOR CODE	FIRST RING	SECOND RING
iDEN	YELLOW	GREEN
CDMA	YELLOW	RED
WiMAX	YELLOW	BLUE

2 FREQUENCY COLOR CODE
SCALE: N.T.S.

CABLE	LSB				MSB
	STRIPE 1 (1) *	STRIPE 2 (2)	STRIPE 3 (4)	STRIPE 4 (8)	STRIPE 6 (16)
1	YELLOW	PURPLE	PURPLE	PURPLE	PURPLE
2	PURPLE	YELLOW	PURPLE	PURPLE	PURPLE
3	YELLOW	YELLOW	PURPLE	PURPLE	PURPLE
4	PURPLE	PURPLE	YELLOW	PURPLE	PURPLE
5	YELLOW	PURPLE	YELLOW	PURPLE	PURPLE
6	PURPLE	YELLOW	YELLOW	PURPLE	PURPLE
7	YELLOW	YELLOW	YELLOW	PURPLE	PURPLE
8	PURPLE	PURPLE	PURPLE	YELLOW	PURPLE
9	YELLOW	PURPLE	PURPLE	YELLOW	PURPLE
10	PURPLE	YELLOW	PURPLE	YELLOW	PURPLE
11	YELLOW	YELLOW	PURPLE	YELLOW	PURPLE
12	PURPLE	PURPLE	YELLOW	YELLOW	PURPLE
13	YELLOW	PURPLE	YELLOW	YELLOW	PURPLE
14	PURPLE	YELLOW	YELLOW	YELLOW	PURPLE
15	YELLOW	YELLOW	YELLOW	YELLOW	PURPLE
16	PURPLE	PURPLE	PURPLE	PURPLE	YELLOW
17	YELLOW	PURPLE	PURPLE	PURPLE	YELLOW
18	PURPLE	YELLOW	PURPLE	PURPLE	YELLOW
19	YELLOW	YELLOW	PURPLE	PURPLE	YELLOW
20	PURPLE	PURPLE	YELLOW	PURPLE	YELLOW
21	YELLOW	PURPLE	YELLOW	PURPLE	YELLOW
22	PURPLE	YELLOW	YELLOW	PURPLE	YELLOW
23	YELLOW	YELLOW	YELLOW	PURPLE	YELLOW
24	PURPLE	PURPLE	PURPLE	YELLOW	YELLOW

* STRIPS 1 (LSB) SHALL BE PLACED CLOSEST TO THE CONNECTOR END OF CABLE.

4 MICROWAVE COLOR CODE CHART
SCALE: N.T.S.



1 MICROWAVE CABLE COLOR CODE
SCALE: N.T.S.

OWNER/APPLICANT FOR:

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:

728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:

TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296

FCC NUMBER:
1223931

SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:
I CERTIFY THAT THE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL TO THE BEST OF MY KNOWLEDGE & BELIEF IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2006 EDITION.

JEREMY D. SHARIT
103303
PROFESSIONAL ENGINEER
07/31/13

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

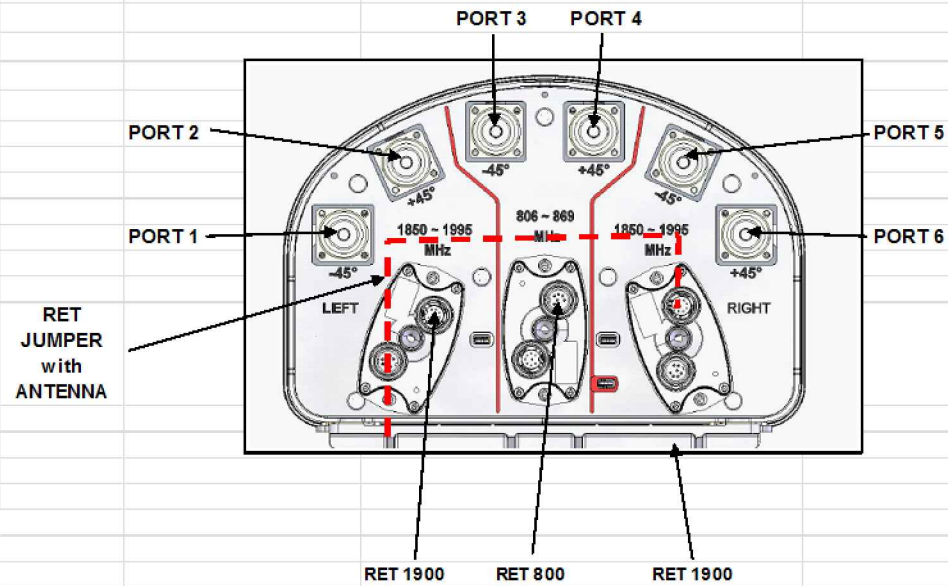
REVISION		
NO	DESCRIPTION	BY DATE
Δ	SUBMISSION: 90% CD	JDS 08/05/11
Δ	SUBMISSION: 100% CD	JDS 01/15/12
Δ	SUB: REV PER RFDS	DCP 07/23/12
Δ	SUB: REV PER CLIENT	DCP 08/16/12
Δ	SUB: REV PER STRUC.	DCP 10/10/12
Δ	SUB: SEALED FINALS	JDS 10/16/12
Δ	SUB: REV. FINALS	JDS 07/31/13

SHEET TITLE:
EXISTING COLOR CODE

SHEET NUMBER:
A-9

Sprint Frequency	Sprint Indicator	Sprint ID	Carrier	Hybrid Fiber & DC ID Color	DC Cable Colors @ RBS Side A
800 # 4 RRU "D"	Yellow	Green	CDMA	Green	GREEN / WHITE
1900 # 1 RRU "C"	Yellow	Red	LTE	RED	RED / BLACK
1900 # 2 RRU "A"	Yellow	Brown	CDMA	Yellow	Wht-Bk & Red-Bk Leads
1900 # 3 RRU "B"	Yellow	Blue	CDMA	Blue	Blue & Orange Leads
1900 # 5 RRU "E"	Yellow	Slate	CDMA	Wht	Gn-BK & Or-BK Leads
				Black Fiber Spare	No DC spare

Color tape from H & S for identification Install correct Sprint color code during installation
 Hybrid Cable ID 1 Red-Green / Sector Alpha 2 Red-Green / Sector Beta 3 Red-Green / Sector Gamma
 4 Red-Green / Sector Delta 5 Red-Green / Epsolan 6 Red-Green / Zeta



DC Cable @ RRU Side B
Black / Gray
Black / Gray
Black / Gray
Black / Gray
n/a

5 RFS ANTENNA & CABLE COLOR CODE

SCALE: N.T.S.

ALPHA		BETA		HYBRID CABLE 6/5 COLOR CODE		GAMMA		DELTA	
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green
Red	Green	Red	Green	Red	Green	Red	Green	Red	Green

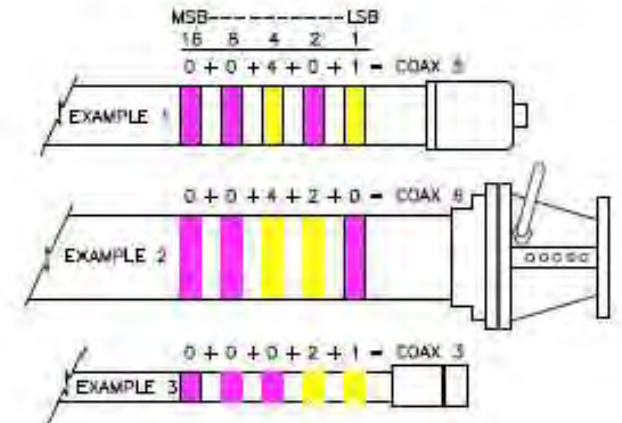
FREQUENCY COLOR CODE		
FREQUENCY	INDICATOR	ID
800#1	YELLOW	GREEN
1900#1	YELLOW	RED
1900#2	YELLOW	BROWN
RESERVED	YELLOW	BLUE
RESERVED	YELLOW	SLATE
RESERVED	YELLOW	ORANGE
RESERVED	YELLOW	WHITE
1800#1	YELLOW	PURPLE

3 HYBRID CABLE COLOR CODE

SCALE: N.T.S.

2 FREQUENCY COLOR CODE

SCALE: N.T.S.



4 MICROWAVE CABLE COLOR CODE

SCALE: N.T.S.

SPRINT NEWVISION COLOR CODE ALL SECTORS SAME ONLY HYBRID ID CHANGES PER SECTOR		
SECTOR A	CABLE TYPE	LOCATION AND INFORMATION ON CABLE CONNECTIONS
GREEN YELLOW RED	1/2 COAX JUMPER	FROM COAXIAL #1 - COAX PORT 1 TO RET ANTENNA PORT 1 - 1900 CDMA
BLUE YELLOW RED	1/2 COAX JUMPER	FROM COAXIAL #2 - COAX PORT 2 TO RET ANTENNA PORT 2 - 1900 CDMA
GREEN YELLOW BROWN	1/2 COAX JUMPER	FROM COAXIAL #1 - PORT 1 TO RET ANTENNA PORT 1 - 1900 CDMA
GREEN YELLOW RED	1/2 COAX JUMPER	FROM COAXIAL #1 - PORT 2 TO RET ANTENNA PORT 2 - 1900 CDMA
BLUE YELLOW BROWN	1/2 COAX JUMPER	FROM COAXIAL #2 - PORT 1 TO RET ANTENNA PORT 1 - 1900 CDMA
BLUE YELLOW RED	1/2 COAX JUMPER	FROM COAXIAL #2 - PORT 2 TO RET ANTENNA PORT 2 - 1900 CDMA
BROWN YELLOW GREEN	1/2 COAX JUMPER	FROM RET 800 - PORT 1 TO RET ANTENNA PORT 1 - 800 CDMA
WHITE YELLOW GREEN	1/2 COAX JUMPER	FROM RET 800 - PORT 2 TO RET ANTENNA PORT 2 - 800 CDMA
BROWN YELLOW GREEN	1/2 COAX JUMPER	FROM RET 1900 - PORT 1 TO RET ANTENNA PORT 1 - 1900 CDMA
RED YELLOW BROWN	1/2 COAX JUMPER	FROM RET 1900 - PORT 2 TO RET ANTENNA PORT 2 - 1900 CDMA
SLATE YELLOW BROWN	1/2 COAX JUMPER	FROM RET 1900 - PORT 1 TO RET ANTENNA PORT 1 - 1900 CDMA
RED YELLOW	1/2 CABLE 1900 LTE	FROM RET 1900 - 1 TO RET 1900 ACTUAL PORT #1 - WITH JUMPER TO RET ACTUAL PORT #3 - 1900 LTE
GREEN YELLOW	1/2 CABLE 1900 LTE	FROM RET 1900 - 1 TO RET 1900 ACTUAL PORT #1 - WITH JUMPER TO RET ACTUAL PORT #2 - 1900 CDMA
GREEN	1/2 CABLE 1900 LTE	FROM RET 800 - 1 TO RET 800 ACTUAL PORT #1 - WITH JUMPER TO RET ACTUAL PORT #2 - 800 CDMA
BLUE	HYBRID CABLE DC	FROM RET 800 TO JUMPER AT SOURCE - CONNECTS TO DC BLOCK (BLUE LEAD) IN RBS
BROWN	HYBRID CABLE DC	FROM RET 800 TO JUMPER AT SOURCE - CONNECTS TO DC BLOCK (BROWN LEAD) IN RBS
GREEN	HYBRID CABLE DC	FROM RET 800 TO DC LEAD AT SOURCE - CONNECTS TO DC TERMINAL BLOCK (GREEN LEAD) IN RBS
RED	HYBRID CABLE DC	FROM RET 800 TO DC LEAD AT SOURCE - CONNECTS TO DC TERMINAL BLOCK (RED LEAD) IN RBS
BLUE	HYBRID CABLE DC	FROM RET 800 TO DC LEAD AT SOURCE - CONNECTS TO DC TERMINAL BLOCK (BLUE LEAD) IN RBS
GREEN	HYBRID CABLE DC	FROM RET 800 TO DC LEAD AT SOURCE - CONNECTS TO DC TERMINAL BLOCK (GREEN LEAD) IN RBS
RED	HYBRID CABLE DC	FROM RET 800 TO DC LEAD AT SOURCE - CONNECTS TO DC TERMINAL BLOCK (RED LEAD) IN RBS
GREEN	HYBRID CABLE DC	FROM RET 800 TO DC LEAD AT SOURCE - CONNECTS TO DC TERMINAL BLOCK (GREEN LEAD) IN RBS
RED	HYBRID CABLE DC	FROM RET 800 TO DC LEAD AT SOURCE - CONNECTS TO DC TERMINAL BLOCK (RED LEAD) IN RBS

1 RFS COAXIAL CABLE COLOR CODE

SCALE: N.T.S.

OWNER/APPLICANT FOR:

1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:

728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:

TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296

FCC NUMBER:
1223931

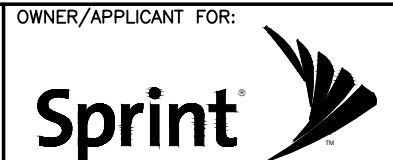
SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:
I CERTIFY THAT THE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & CONTROL TO THE BEST OF MY KNOWLEDGE & BELIEF IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2006 EDITION.

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	
REVISION		
NO	DESCRIPTION	BY DATE
Δ	SUBMISSION: 90% CD	JDS 08/05/11
Δ	SUBMISSION: 100% CD	JDS 01/15/12
Δ	SUB: REV PER RFDS	DCP 07/23/12
Δ	SUB: REV PER CLIENT	DCP 08/16/12
Δ	SUB: REV PER STRUC.	DCP 10/10/12
Δ	SUB: SEALED FINALS	JDS 10/16/12
Δ	SUB: REV. FINALS	JDS 07/31/13

SHEET TITLE:
PROPOSED COLOR CODE

SHEET NUMBER:
A-10



1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON
COMMUNICATIONS
728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:
SMW
ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296
FCC NUMBER:
1223931
SITE ADDRESS:
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SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

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JEREMY D. SHARIT
103303
PROFESSIONAL ENGINEER
07/31/13

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DATE DRAWN:	08/05/11	
REVISION		
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Δ	SUB: SEALED FINALS	JDS 10/16/12
Δ	SUB: REV. FINALS	JDS 07/31/13

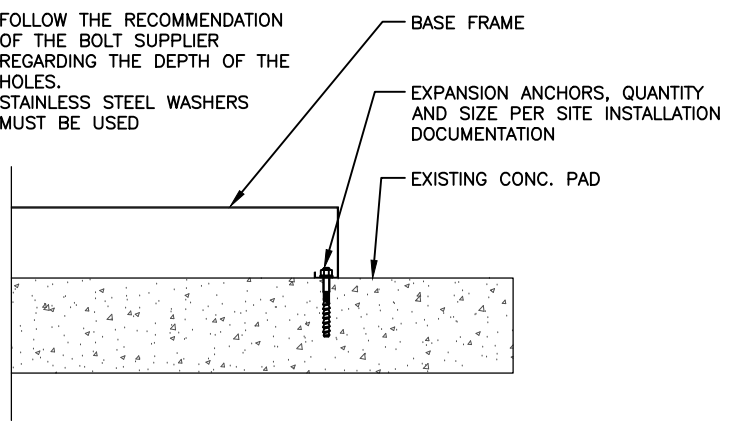
SHEET TITLE:
CABINET DETAILS

SHEET NUMBER:
A-11

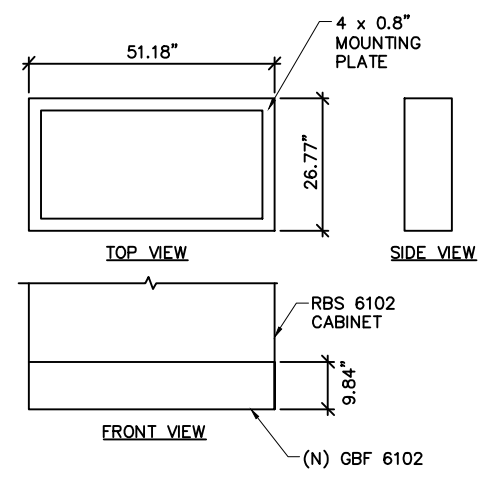
MANUFACTURER: ERICSON
MODEL: GLOBAL BASE FRAME (GBF) 6102
WEIGHT: <44.0 LBS.

NOTE:

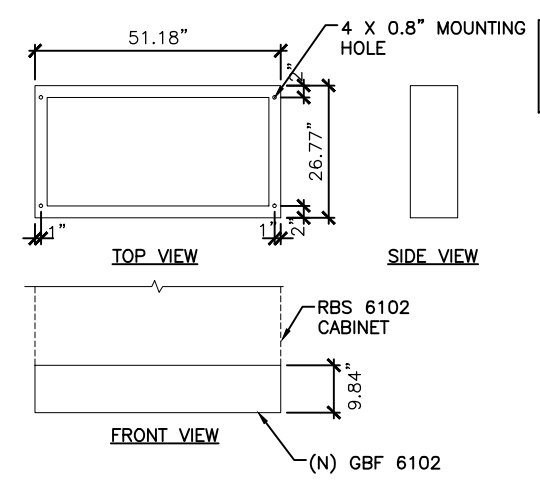
- FOLLOW THE RECOMMENDATION OF THE BOLT SUPPLIER REGARDING THE DEPTH OF THE HOLES.
- STAINLESS STEEL WASHERS MUST BE USED



5 MOUNTING DETAIL
SCALE: N.T.S.



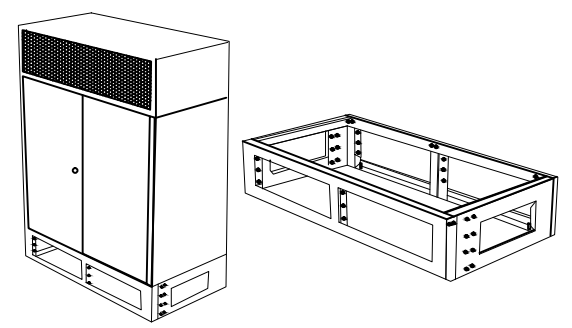
4 GBF BASE DETAIL
SCALE: N.T.S.



3 EQUIPMENT BOLTING PATTERN FOR RBS
SCALE: N.T.S.

*HEIGHT SHOWN ON THE TABLE INCLUDES GLOBAL BASE FRAME, PROVIDED BY ERICSSON.
**WEIGHT SHOWN ON THE TABLE INCLUDES GLOBAL BASE FRAME, PROVIDED BY ERICSSON

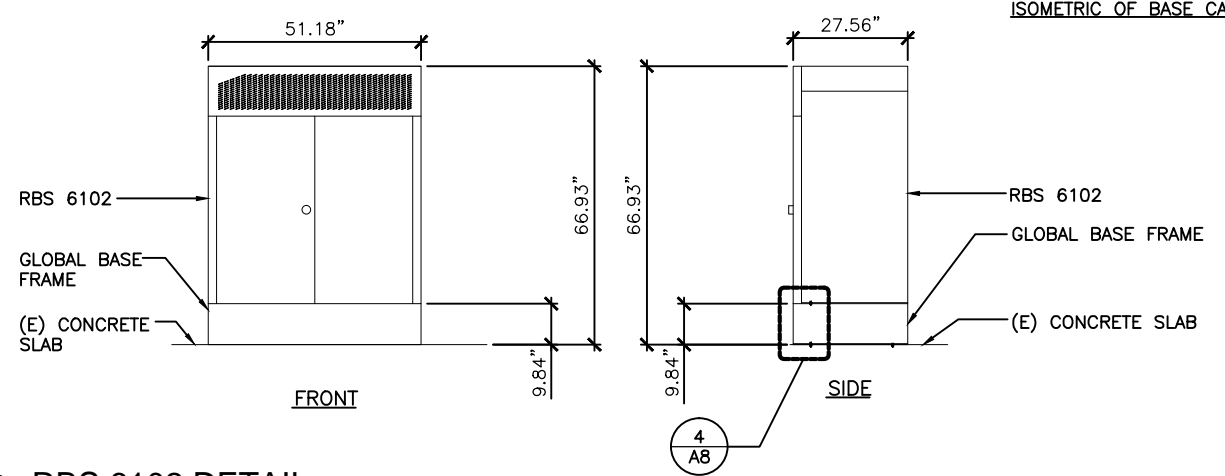
ERICSSON RBS 6102	
DIMENSIONS	51.18"W x 27.56"D x *66.93"H
WEIGHT	**771.62 LBS.
MINIMUM CLEARANCES	
FRONT	27.56"
SIDES	1.97"
REAR	7.87"



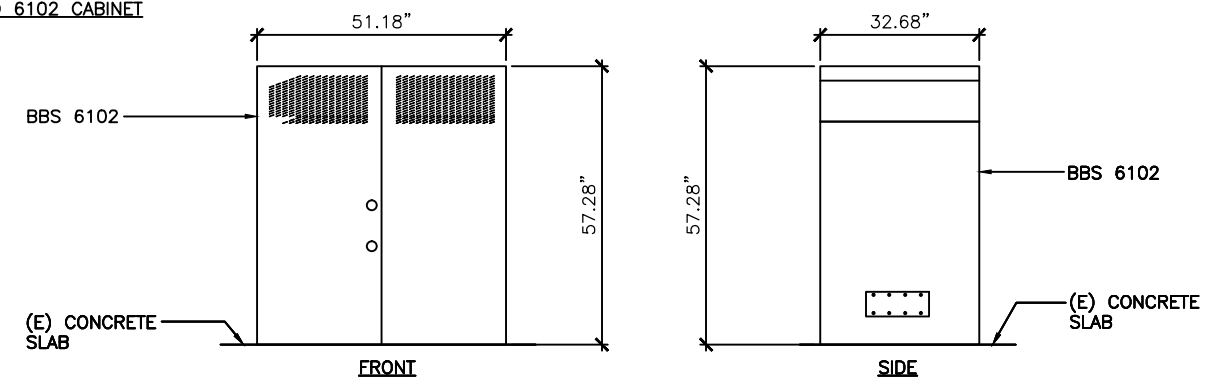
ISOMETRIC OF BASE CABINET AND 6102 CABINET

ERICSSON BBS 6102	
DIMENSIONS	51.18"W x 32.68"D x 57.28"H
WEIGHTS	*449.74 - 568.79 LBS. **491.63 - 654.77 LBS.
MINIMUM CLEARANCES	
FRONT	31.00"
SIDES	6.00"
REAR	6.00"

*WEIGHT SHOWN ON THE TABLE INCLUDES AGM BATTERIES
**WEIGHT SHOWN ON THE TABLE INCLUDES OP2V BATTERIES



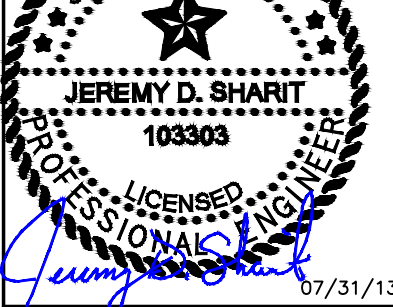
2 RBS 6102 DETAIL
SCALE: N.T.S.



1 BBS 6102 DETAIL
SCALE: N.T.S.

BBS DETAILS
PROVIDED BY SPRINT

STAMP:
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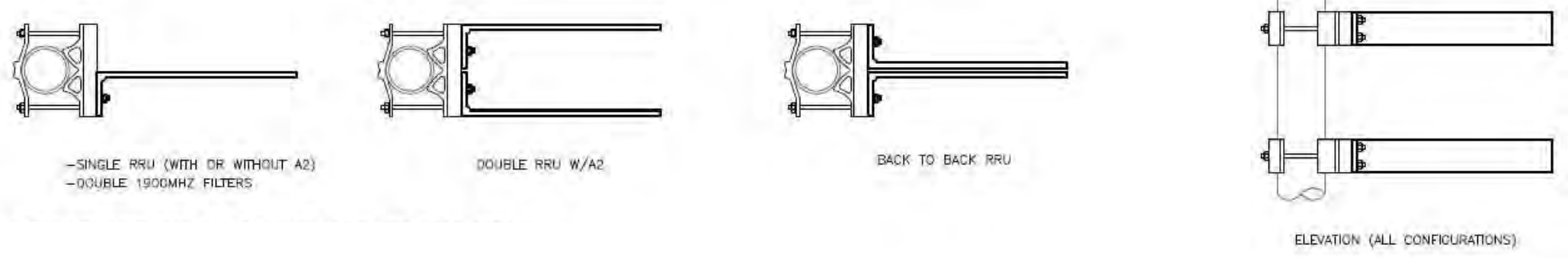
07/31/13

DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

REVISION		
NO	DESCRIPTION	BY DATE
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Δ	SUB: SEALED FINALS	JDS 10/16/12
Δ	SUB: REV. FINALS	JDS 07/31/13

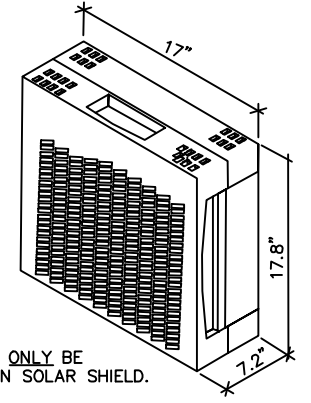
SHEET TITLE:
RRU DETAILS

SHEET NUMBER:
A-12



5 RRU'S PDU MOUNTING BRACKET CONFIGURATIONS
 SCALE: N.T.S.

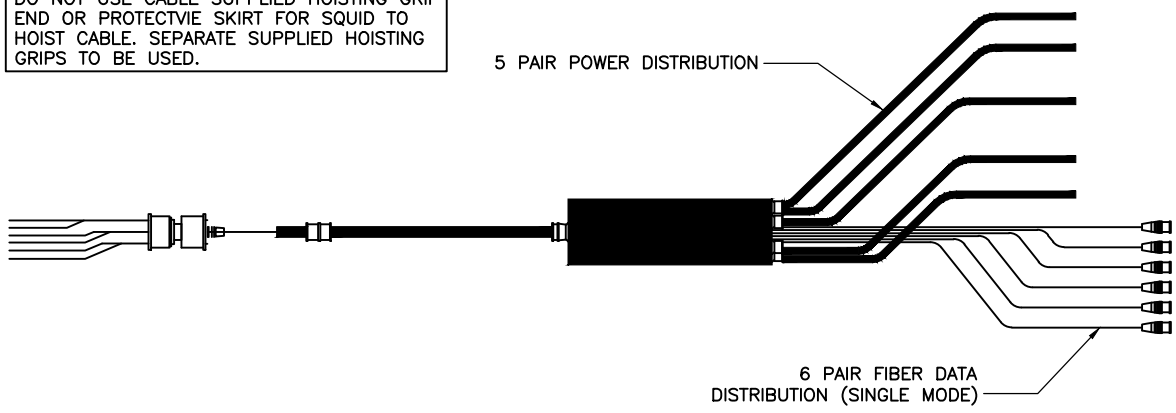
-DIMENSIONS (H x W x D):
 17.8" x 17.0" x 7.2" (INCLUDES SUNSHIELD)
 -WEIGHT: 55 LBS
 -CLIMATE: -40°C TO +55°C
 (SELF CONVECTION SILENT, NO FANS, IP55)
 -POWER CONSUMPTION: 200 WATTS (TYP.)



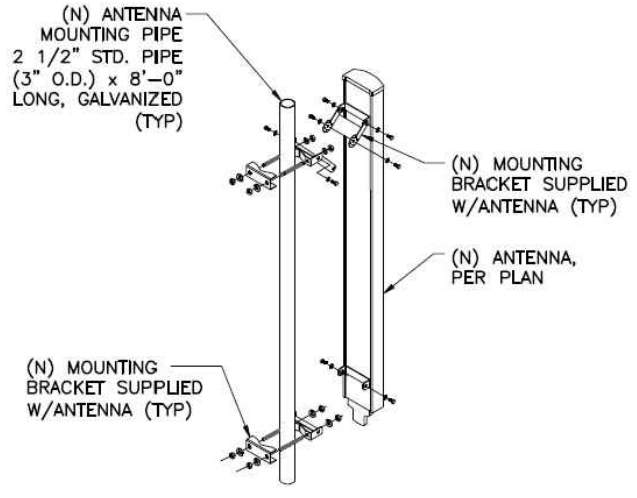
NOTE:
 RRU'S CAN ONLY BE PAINTED ON SOLAR SHIELD.

4 RRU DETAIL
 SCALE: N.T.S.

DO NOT USE CABLE SUPPLIED HOISTING GRIP END OR PROTECTIVE SKIRT FOR SQUID TO HOIST CABLE. SEPARATE SUPPLIED HOISTING GRIPS TO BE USED.

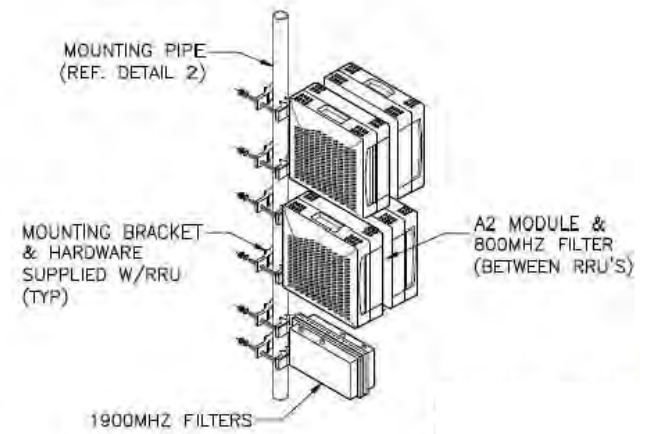
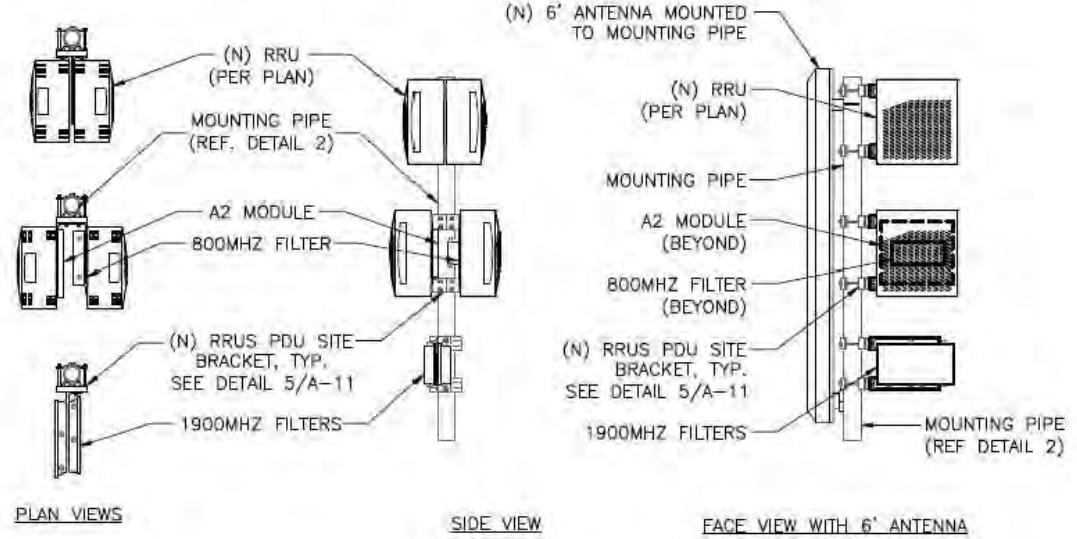


3 (N) CABLES INSIDE (N) CONDUIT
 SCALE: N.T.S.



2 ANTENNA DETAIL
 SCALE: N.T.S.

ERICSSON RRU-11



1 RRU 11 PIPE MOUNT DETAIL
 SCALE: N.T.S.

NOTES:

- IF ADDITIONAL MODULES ARE NECESSARY USE THE APPROPRIATE CONFIGURATION ON MOUNTING PIPES AS SPECIFIED IN THE SITE PLAN AND IN ACCORDANCE WITH THE STRUCTURAL ANALYSIS OF THE MOUNT.
- GC IS TO INSURE THAT ALL RRU'S RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURES PACKAGING.
- DO NOT OPEN RRU PACKAGING IN THE RAIN.

RRU DETAILS
 PROVIDED BY SPRINT

Ericsson MM-BTS RBS 6102	Alarm Contact	Severity	Owner	Comments	Color Code	
BTS Scan Point 1	[1000] Utility Power Failure	NC	Major	Service Assurance	RBS/Right OVP1/A4	White/Blue
BTS Scan Point 2	[1200] Generator Failure	NC	Minor	Field Services	RBS/Right OVP1/A5	White/Orange
BTS Scan Point 3	[1201] Generator Running	NC	Minor	DRMS Only	RBS/Right OVP1/A6	White/Green
BTS Scan Point 4	[1202] Generator Low Fuel Threshold Reached	NC	Major	Field Services	RBS/Right OVP1/A7	White/Brown
BTS Scan Point 5	[9000] Tower Top Light Failure, NOTAM Required	NC	Major	Service Assurance	RBS/Right OVP1/A5	White/State
BTS Scan Point 6	[9100] Tower Side Light Failure, no NOTAM	NC	Minor	Service Assurance	RBS/Right OVP2/A2	Red/Blue
BTS Scan Point 7	[2008] 1900R1 DBU Fan Failure (cable supplied internal)	NC	Major	Field Services	RBS/Right OVP2/A3	White/Brown
BTS Scan Point 8	[2008] 1900R2 DBU Fan Failure (cable supplied internal)	NC	Major	Field Services	RBS/Right OVP2/A1	White/Brown
BTS Scan Point 9	[2008] 800 DBU Fan Failure (cable supplied internal)	NC	Major	Field Services	RBS/Left OVP1/A1	White/Brown
BTS Scan Point 10	User Defined from Standards Column A Only	NC			RBS/Right OVP1/A8	Red/Orange
BTS Scan Point 11	User Defined from Standards Column A Only	NC			RBS/Right OVP2/A4	Red/Green
BTS Scan Point 12	User Defined from Standards Column A Only	NC			RBS/Right OVP2/A5	Red/Brown
BTS Scan Point 13	User Defined from Standards Column A Only	NC			RBS/Right OVP2/A6	Red/Slate
BTS Scan Point 14	User Defined from Standards Column A Only	NC			RBS/Right OVP2/A7	Black/Blue
BTS Scan Point 15	Climate Alarm BBS 6102 (cable supplied)	NC		Field Services	RBS/Right OVP1/A2	Red/Orange
BTS Scan Point 16	Open Door BBS 6102 (cable supplied)	NC		Field Services	RBS/Right OVP1/A1	Black/Brown

3 ALARM DETAIL
SCALE: N.T.S.

CONDUIT NOTES:

- ALL FLEX CONDUIT TO BE SEAL TIGHT CONDUIT OR EQUAL.

ABBREVIATIONS:

A	AMPERE
AF	AMPERE FRAME
AGB	ANTENNA GROUND BAR
C	CONDUIT
G	GROUND
KWH	KILOWATT HOUR
MGB	MASTER GROUND BAR
MCB	MAIN CIRCUIT BREAKER
PVC	POLYVINYL CHLORIDE
P	POLE
RMC	RIGID METAL CONDUIT
SN	SOLID NEUTRAL
V	VOLT
W	WIRE
Ø	PHASE

ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), AND APPLICABLE LOCAL CODES.
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED.
- ALL WIRES SHALL BE AWG MIN #12 THHN COPPER UNLESS NOTED.
- CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT UNLESS NOTED OTHERWISE.
- LABEL SPRINT SERVICE DISCONNECT SWITCH AND PPC CABINET WITH ENGRAVED LAMACOID LABELS, LETTERS 1" IN HEIGHT.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 8" RADIUS.
- ENGAGE AN INDEPENDENT TESTING FIRM TO TEST AND VERIFY THAT RESISTANCE DOES NOT EXCEED 5 OHMS TO GROUND. TEST GROUND RING RESISTANCE PRIOR TO MAKING FINAL GROUND CONNECTIONS TO INFRASTRUCTURE AND EQUIPMENT. GROUNDING AND OTHER OPERATIONAL TESTING SHALL BE WITNESSED BY SPRINTS REPRESENTATIVE.
- PROVIDE PULL BOXES AND JUNCTION BOXES WHERE REQUIRED SO THAT CONDUIT BENDS DO NOT EXCEED 360°.
- OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL WORK PERFORMED ON THIS PROJECT. DELIVER COPIES OF ALL PERMITS TO SPRINT REPRESENTATIVE.
- SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION HAVING AUTHORITY. CORRECT AND PAY FOR ANY WORK REQUIRED TO PASS ANY FAILED INSPECTION.
- REDLINED AS-BUILTS ARE TO BE DELIVERED TO SPRINT REPRESENTATIVE.
- PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS IN THREE-RING BINDER.
- FURNISH AND INSTALL THE COMPLETE ELECTRICAL SERVICE, TELCO CONDUIT, AND THE COMPLETE GROUNDING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY SPRINT REPRESENTATIVE.
- CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY EXISTING SITE CONDITIONS AFFECTING THIS WORK. REPORT ANY OMISSIONS OR DISCREPANCIES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.
- PROJECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE. REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREA.
- REMOVE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED IN A TIMELY FASHION WILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY. REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. DEBRIS SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF LEGALLY.
- UPON COMPLETION OF WORK, THE SITE SHALL BE CLEAN AND FREE OF DUST AND FINGERPRINTS.
- PRIOR TO ANY TRENCHING, CONTACT LOCAL UTILITY TO VERIFY LOCATION OF ANY EXISTING BURIED SERVICE CONDUITS.
- DOCUMENT GROUND RING INSTALLATION AND CONNECTIONS TO IT WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PRESENT PHOTO ARCHIVE AT SITE "PUNCH LIST" WALK TO SPRINT'S REPRESENTATIVE.

OWNER/APPLICANT FOR:



1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:



728 Shades Creek PKWY
Suite 120
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CONSULTANT:



TOGETHER PLANNING A BETTER TOMORROW
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TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:

SA60XC296

FCC NUMBER:

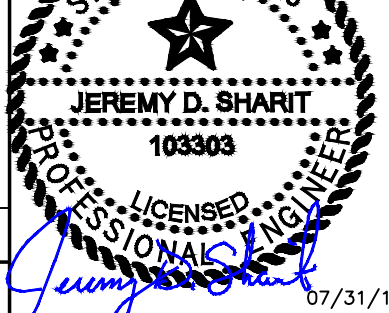
1223931

SITE ADDRESS:

4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

STAMP:

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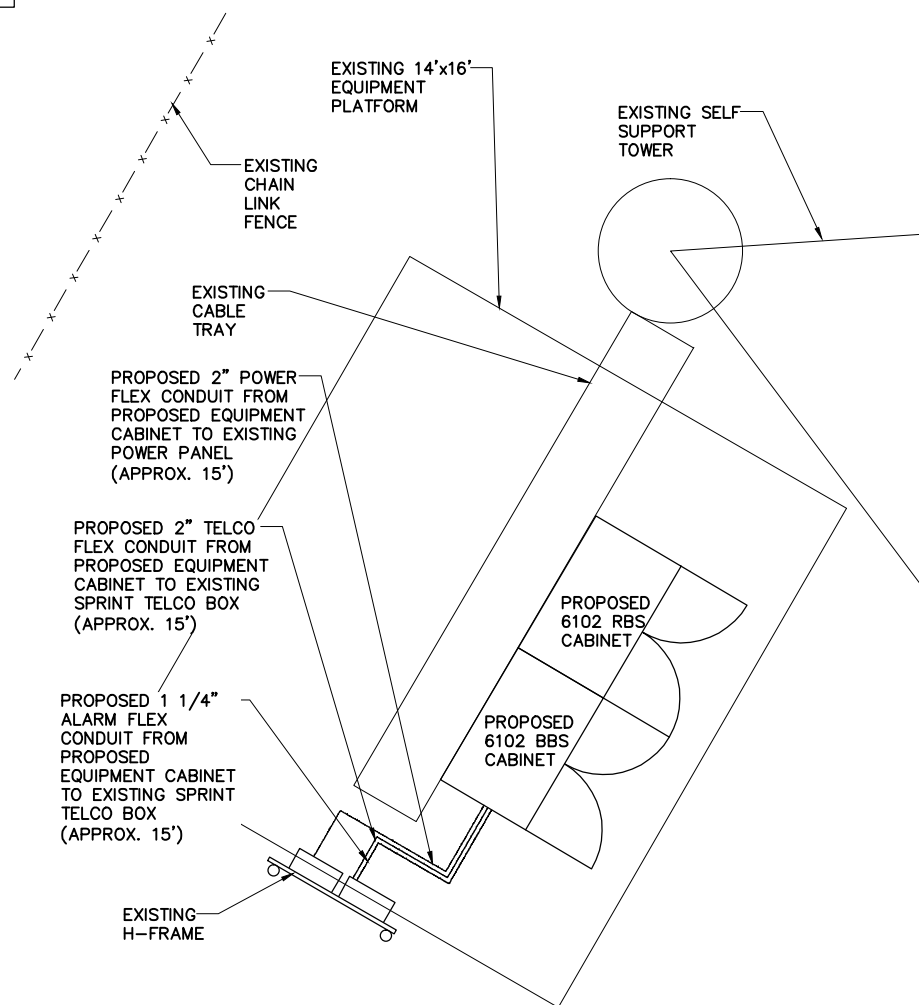


DRAWN BY:	JHB	SMW #:
APPROVED BY:	JDS	11-0802
DATE DRAWN:	08/05/11	

REVISION			
NO	DESCRIPTION	BY	DATE
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△	SUBMISSION: 100% CD	JDS	01/15/12
△	SUB: REV PER RFDS	DCP	07/23/12
△	SUB: REV PER CLIENT	DCP	08/16/12
△	SUB: REV PER STRUC.	DCP	10/10/12
△	SUB: SEALED FINALS	JDS	10/16/12
△	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
**ENLARGED
UTILITY SITE PLAN**

SHEET NUMBER:
E-1



1 ELECTRICAL / TELCO SITE PLAN (FINAL)

FULL SIZE PLOT: SCALE: 3/8" = 1'-0"
HALF SIZE PLOT: SCALE: 3/16" = 1'-0"
0 4' 8' 16' 32'

1 NOT USED
SCALE: N.T.S.
TRUE NORTH

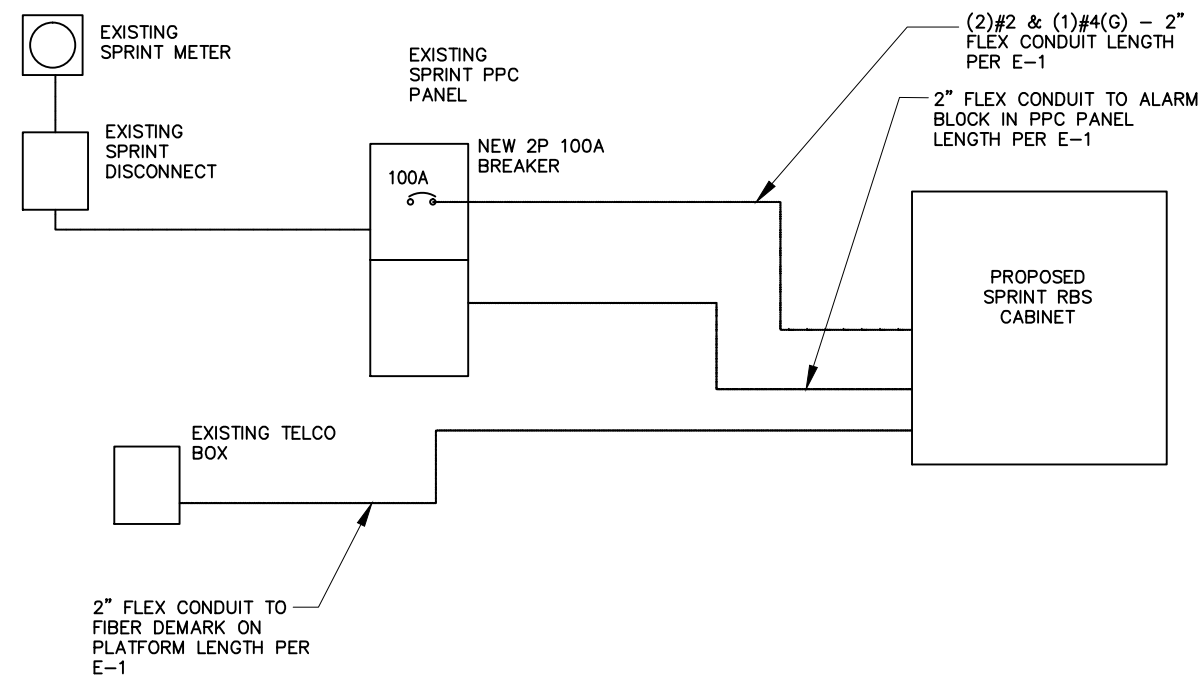
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1	RECTIFIER #1	30	30	RECTIFIER #2	2
3					4
5	RECTIFIER #3	30	30	RECTIFIER #4	6
7					8
9	RECTIFIER #5	30	30	RECTIFIER #6	10
11					12
13	RECTIFIER #7	30	30	RECTIFIER #8	14
15					16
17	RECTIFIER #9 (FUTURE)	30	30	RECTIFIER #10 (FUTURE)	18
19					20
21	HVAC UNIT #1 HACR TYPE	XX	XX	HVAC UNIT #2 HACR TYPE	22
23					24
25	HVAC UNIT #3 (SPARE) HACR TYPE	XX	XX	SURGE ARRESTOR	26
27					28
29	RECEPTACLE 1 - INTERIOR	20	20	LIGHTING	30
31	RECEPTACLE 2 - TELCO	20	20	RELAY (SMOKE DETECTORS)	32
33	RECEPTACLE 3 - GFI	20	20	HVAC CONTROLLER	34
35	RECEPTACLE 4	20	20	SPARE	36
37	SPACE	-	-	SPACE	38
39					40

1 EXISTING PANEL SCHEDULE
N.T.S.

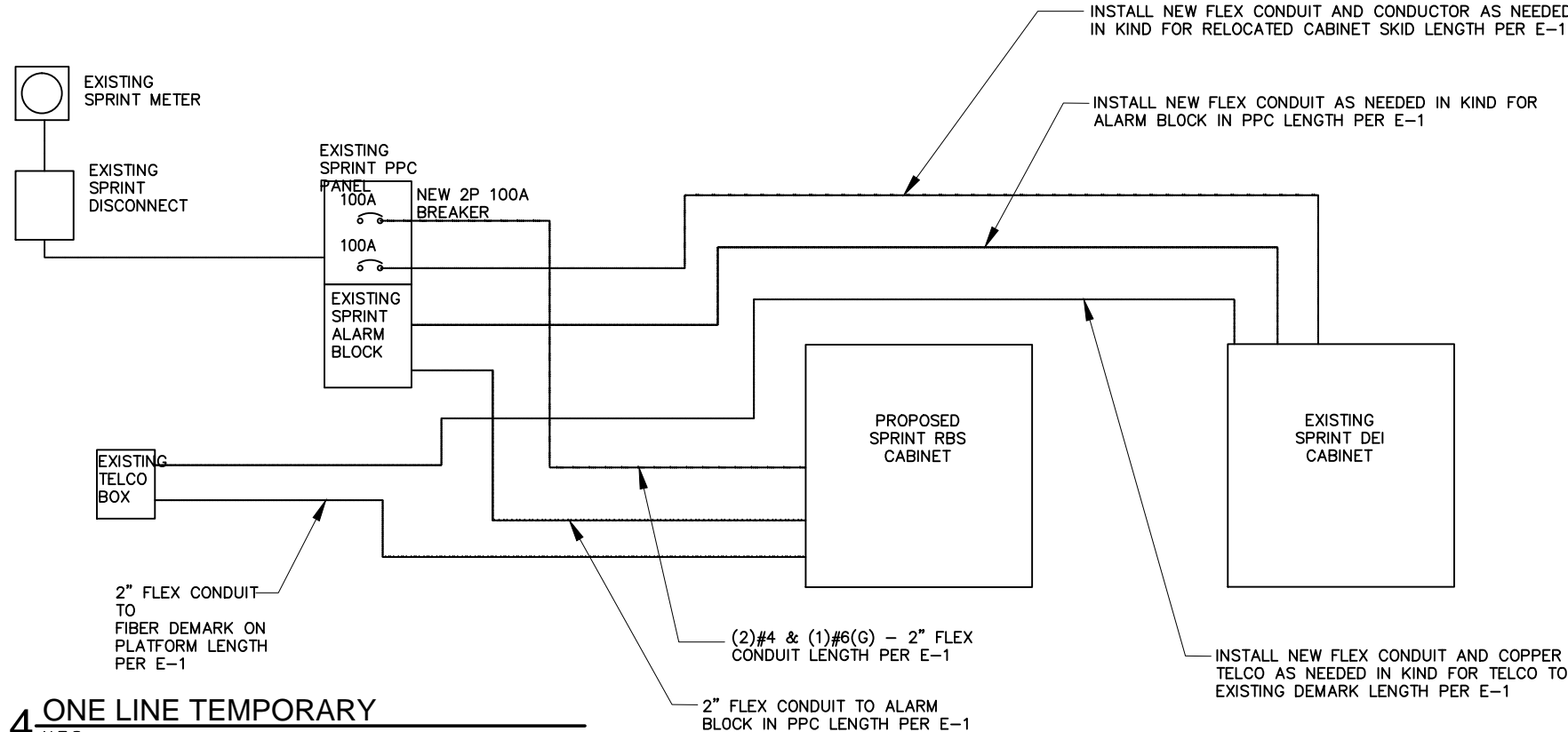
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11					12
13	RECTIFIER #7	30	30	RECTIFIER #8	14
15					16
17	RECTIFIER #9 (FUTURE)	30	30	RECTIFIER #10 (FUTURE)	18
19					20
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23					24
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27					28
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31	RECEPTACLE 2 - TELCO	20	20	RELAY (SMOKE DETECTORS)	32
33	RECEPTACLE 3 - GFI	20	20	HVAC CONTROLLER	34
35	RECEPTACLE 4	20	20	SPARE	36
37	PROPOSED RBS (100 AMP)	100	-	SPACE	38
39					40

3 PROPOSED PANEL SCHEDULE
N.T.S.

2 ONE LINE FINAL
N.T.S.



4 ONE LINE TEMPORARY
N.T.S.



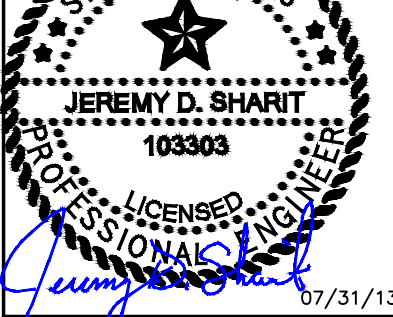
OWNER/APPLICANT FOR:
Sprint
1 INTERNATIONAL BOULEVARD
SUITE #800
MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON COMMUNICATIONS
728 Shades Creek PKWY
Suite 120
Homewood, AL 35209
Tel: (205) 682-7525

CONSULTANT:
SMW ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

SITE NAME:
SA60XC296
FCC NUMBER:
1223931
SITE ADDRESS:
4719 S ZARZAMORA
SAN ANTONIO, TX 78225
BEXAR COUNTY SHERIFF OFFICE

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


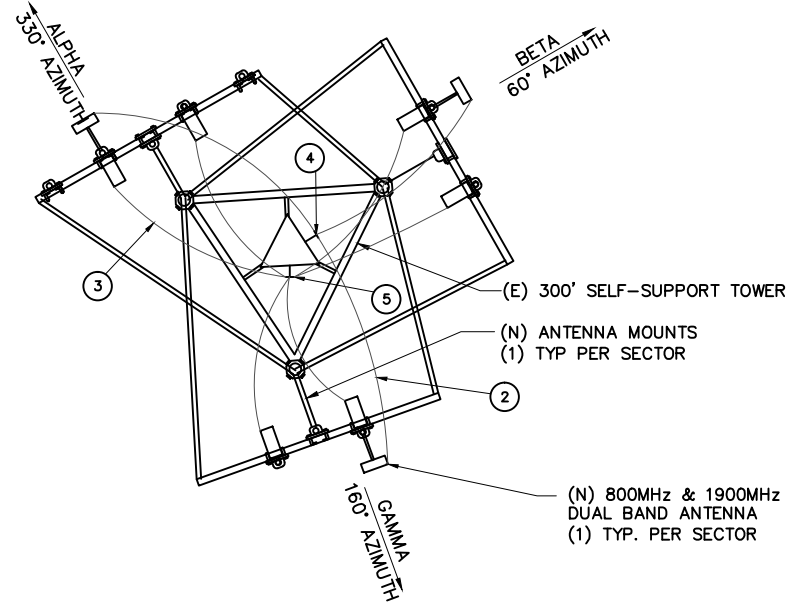
DRAWN BY: JHB SMW #: 11-0802
APPROVED BY: JDS
DATE DRAWN: 08/05/11

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Δ	SUB: SEALED FINALS	JDS	10/16/12
Δ	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
UTILITY SITE PLAN

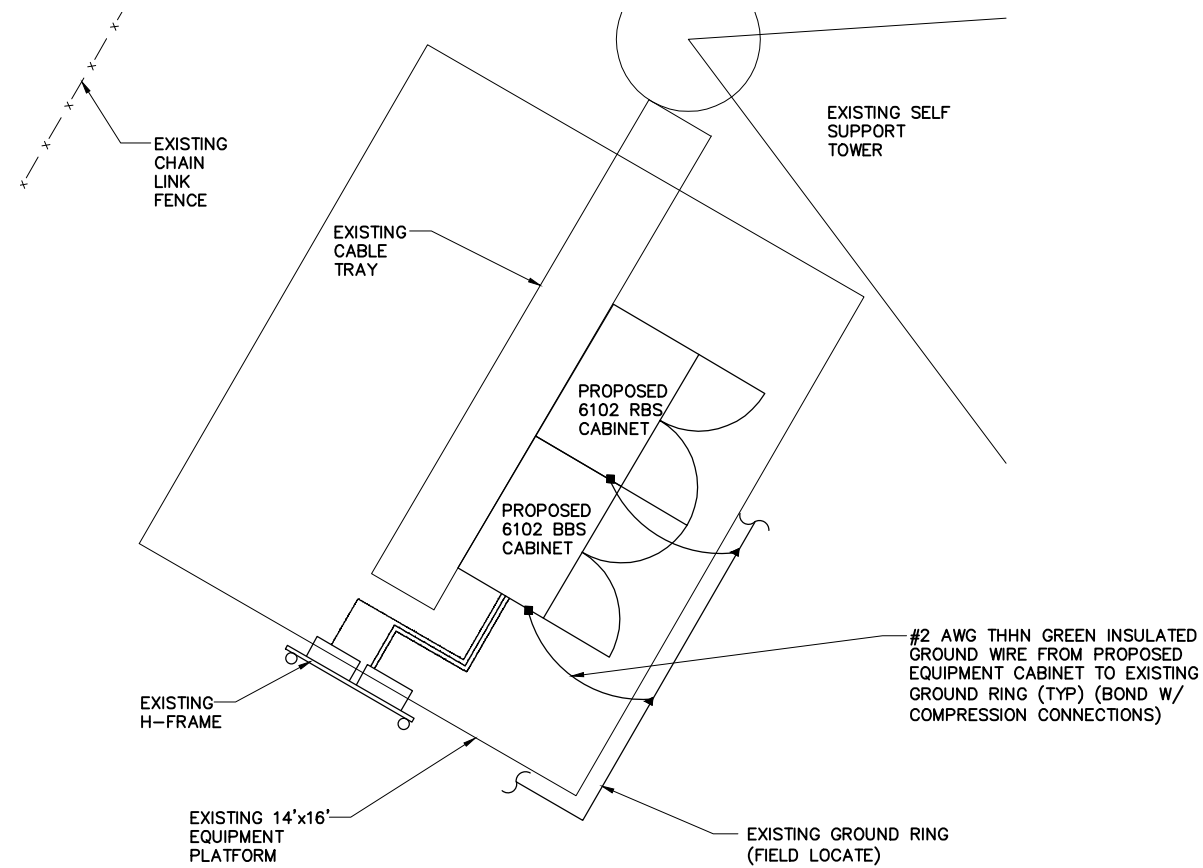
SHEET NUMBER:
E-2

-  NEW 800MHz & 1900MHz DUAL BAND ANTENNA
-  EXISTING ANTENNA



- TEMPORARY:
- ① NOT USED
 - ② BOND PROPOSED 1600 LTE ANTENNA PER MANUFACTURER SPECIFICATIONS TO EXISTING ANTENNA GROUND BAR
 - ③ BOND PROPOSED RRU PER MANUFACTURER SPECIFICATIONS TO PROPOSED ANTENNA GROUND BAR INSTALLED ON EXISTING MONOPOLE PER DETAIL 1/E-5
 - ④ EXISTING ANTENNA GROUND BAR
 - ⑤ PROPOSED ANTENNA GROUND BAR







2 ANTENNA GROUNDING PLAN (FINAL)
 SCALE: NOT TO SCALE
 TRUE NORTH



NOTE: REFER TO SHEET E-3 FOR GROUNDING PLANS FOR TEMPORARY CONFIGURATIONS.

1 GROUNDING PLAN (FINAL)
 SCALE: 3/8" = 1'-0"
 TRUE NORTH

GROUNDING LEGEND:

SYMBOL	DESCRIPTION
	EXOTHERMIC WELD
	GROUND CONDUCTOR
	MECHANICAL CONNECTION
	GROUND ROD EXOTHERMICALLY WELDED TO GROUND RING
	INTERIOR GROUND LEAD
	CHAIN LINK FENCE

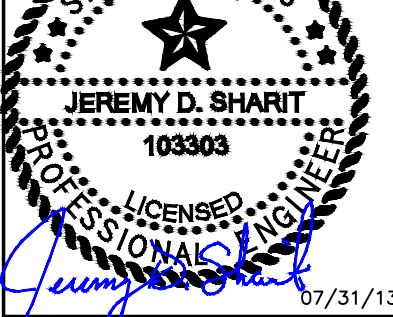
OWNER/APPLICANT FOR:
Sprint
 1 INTERNATIONAL BOULEVARD
 SUITE #800
 MAHWAH, N.J. 07495

SITE ACQ.:
CRAFTON COMMUNICATIONS
 728 Shades Creek PKWY
 Suite 120
 Homewood, AL 35209
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SITE NAME:
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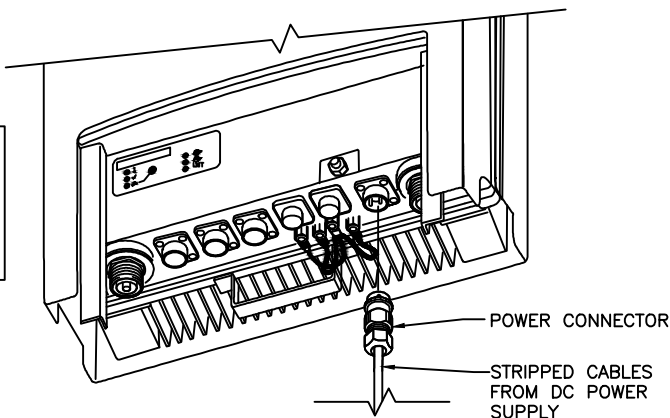
DRAWN BY: JHB SMW #:
 APPROVED BY: JDS 11-0802
 DATE DRAWN: 08/05/11

REVISION			
NO	DESCRIPTION	BY	DATE
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△	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
GROUNDING PLANS (FINAL)

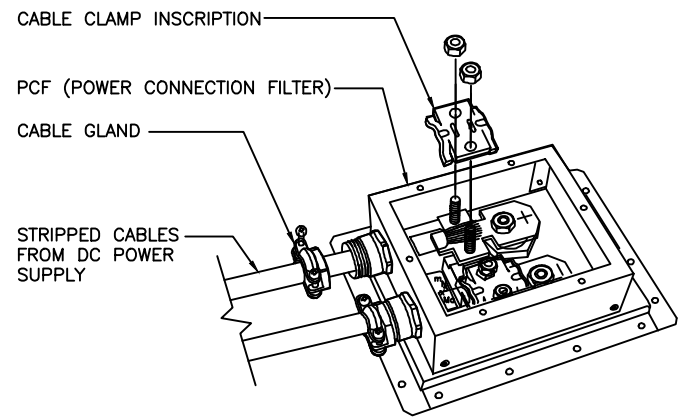
SHEET NUMBER:
E-4

NOTE:
CG SHALL REFERENCE SECTION 8.4 "CONNECTING THE -48V DC POWER SUPPLY" OF THE ERICSSON RRUS INSTALLATION DOCUMENTS, FOR ALL CONNECTION SPECIFICATIONS.



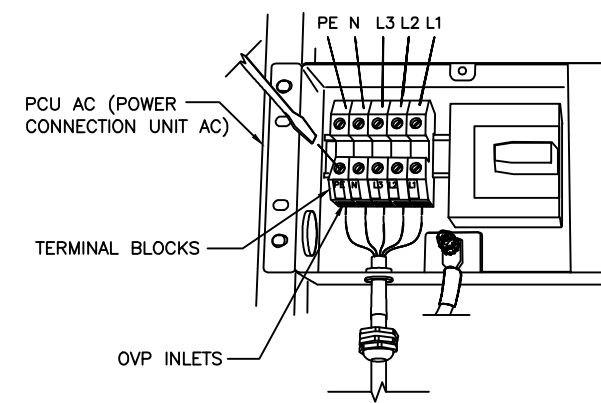
1 -48V DC POWER CONNECTION AT RRU
SCALE: N.T.S.

NOTE:
CG SHALL REFERENCE SECTION 10 "CONNECTING THE POWER SUPPLY" OF THE ERICSSON RBS 6102 INSTALLATION DOCUMENTS, FOR ALL CONNECTION SPECIFICATIONS.

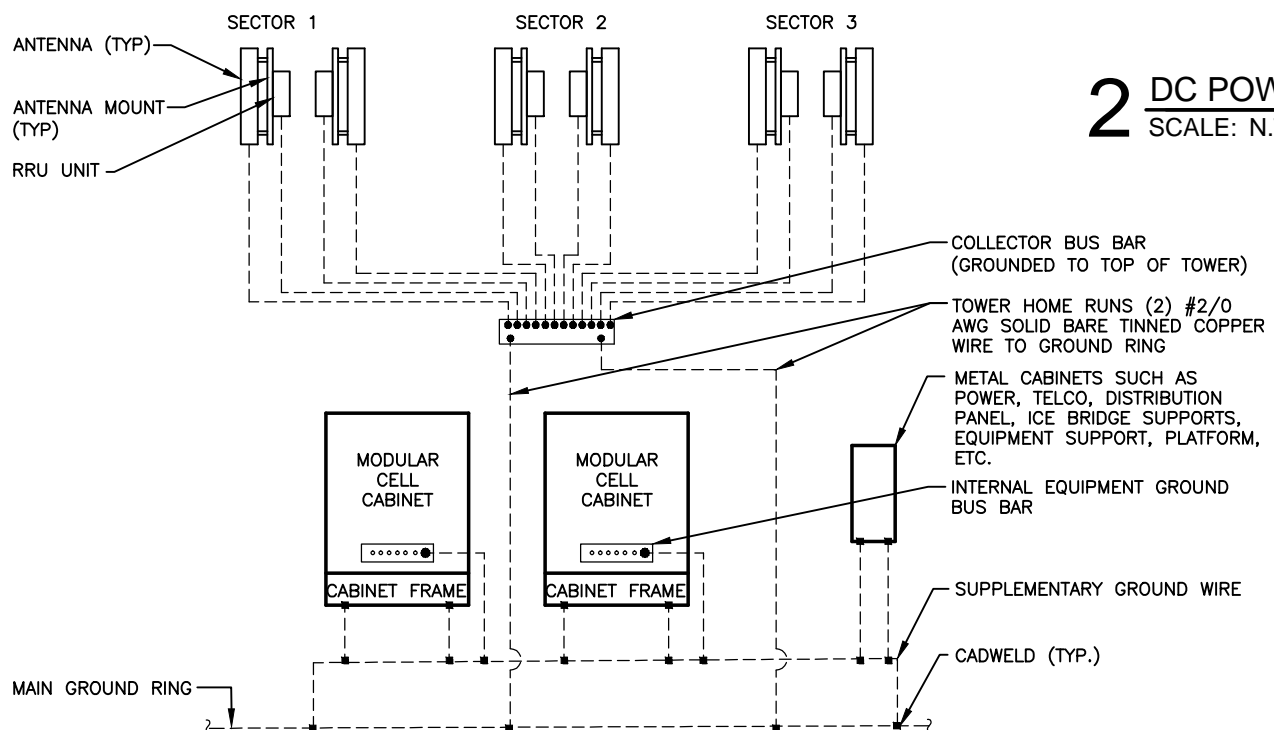


2 DC POWER CONNECTION AT RBS
SCALE: N.T.S.

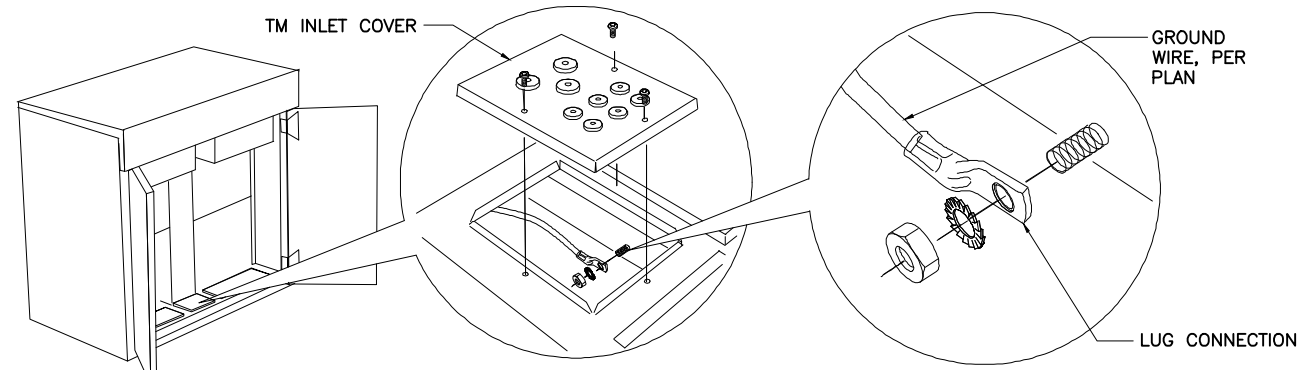
NOTE:
CG SHALL REFERENCE SECTION 10 "CONNECTING THE POWER SUPPLY" OF THE ERICSSON RBS 6102 INSTALLATION DOCUMENTS, FOR ALL CONNECTION SPECIFICATIONS.



3 AC POWER CONNECTION AT RBS
SCALE: N.T.S.

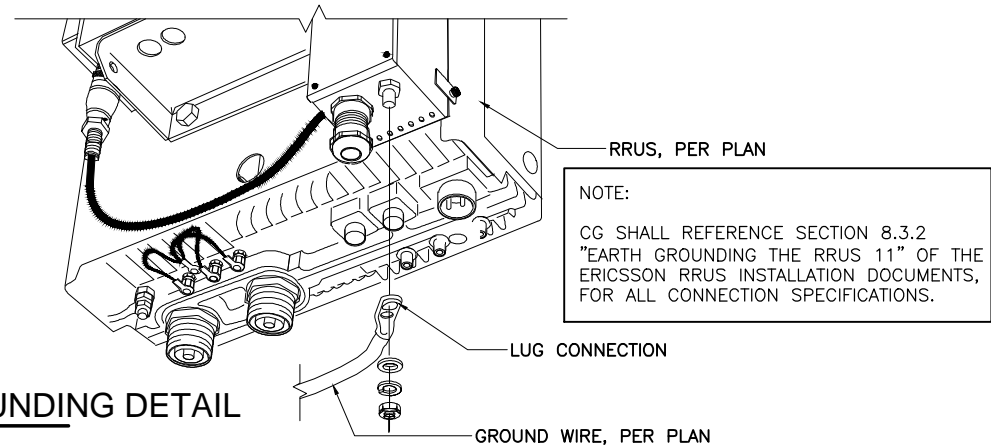


4 GROUNDING DETAIL
SCALE: N.T.S.

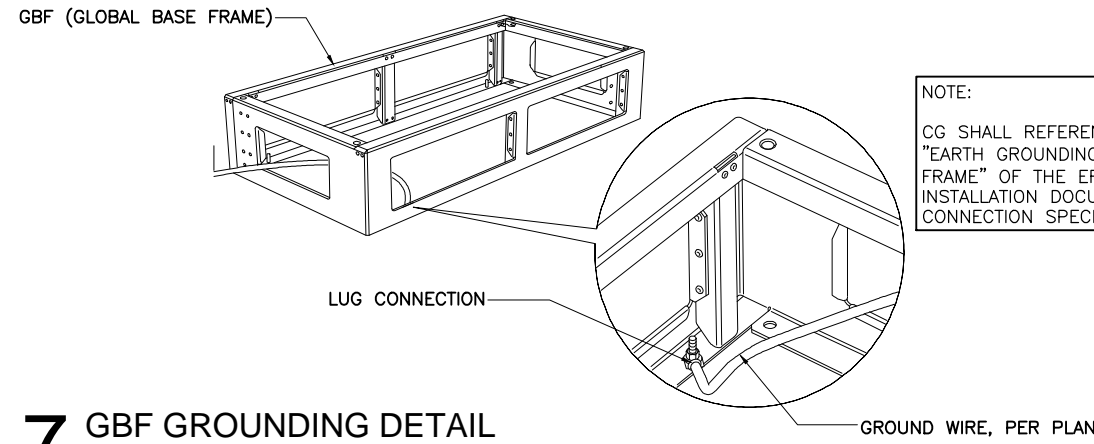


5 RBS GROUNDING DETAIL
SCALE: N.T.S.

NOTE:
CG SHALL REFERENCE SECTION 8 "GROUNDING THE CABINET" OF THE ERICSSON RBS 6102 INSTALLATION DOCUMENTS, FOR ALL CONNECTION SPECIFICATIONS.



6 RRU GROUNDING DETAIL
SCALE: N.T.S.



7 GBF GROUNDING DETAIL
SCALE: N.T.S.

NOTE:
CG SHALL REFERENCE SECTION 3.5 "EARTH GROUNDING THE BASIC BASE FRAME" OF THE ERICSSON GBF INSTALLATION DOCUMENTS, FOR ALL CONNECTION SPECIFICATIONS.

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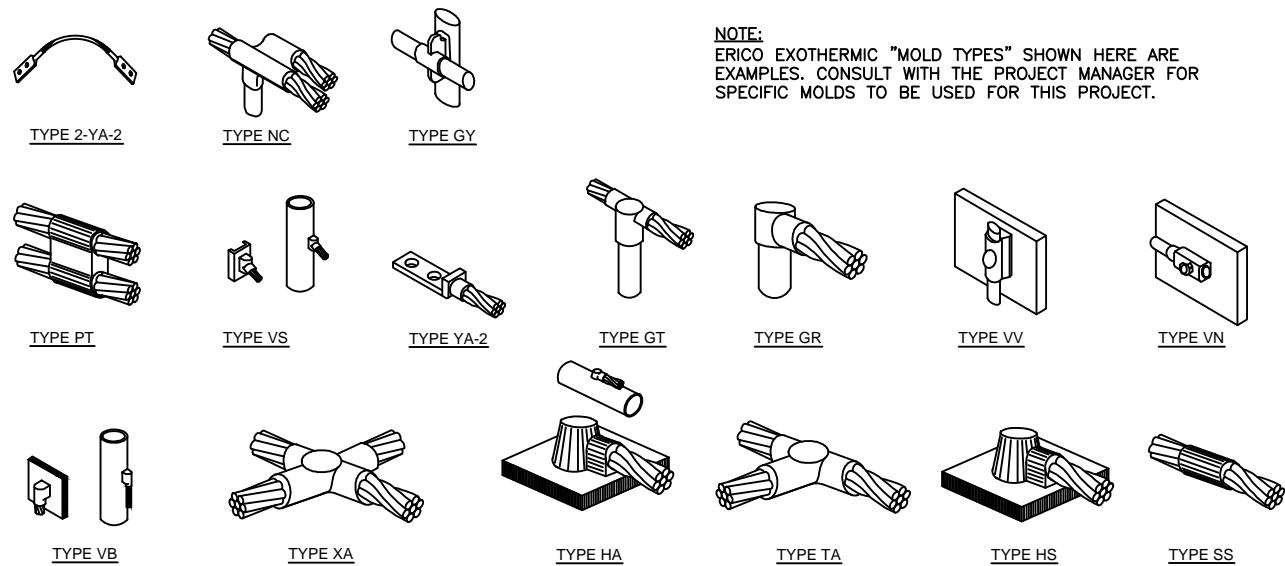
JEREMY D. SHARIT
103303
PROFESSIONAL ENGINEER
07/31/13

DRAWN BY: JHB SMW #:
APPROVED BY: JDS 11-0802
DATE DRAWN: 08/05/11

REVISION			
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Δ	SUB: REV. FINALS	JDS	07/31/13

SHEET TITLE:
ELECTRICAL & GROUNDING DETAILS

SHEET NUMBER:
E-5

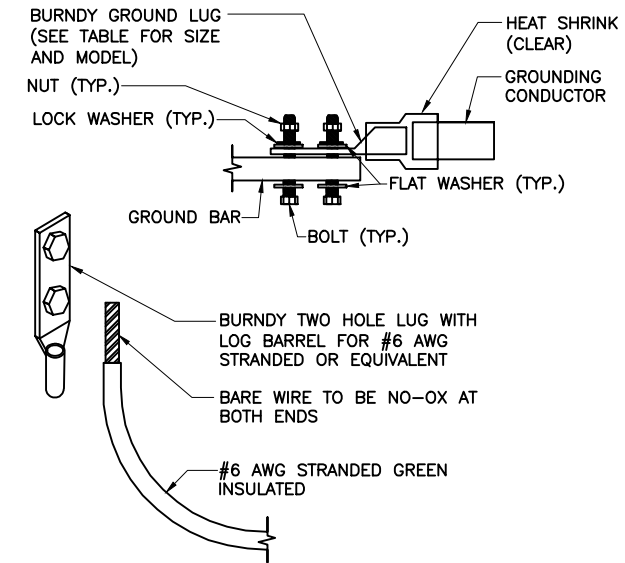


NOTE:
ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH THE PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT

NOTES:

1. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER, LOCK WASHER AND NUT.
2. COPPER SHIELD, ANTI-OX, OR NO-OX OR EQUIVALENT SHALL BE PLACED WHERE DISSIMILAR METALS CONNECT.
3. ALL LUGS ARE TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS

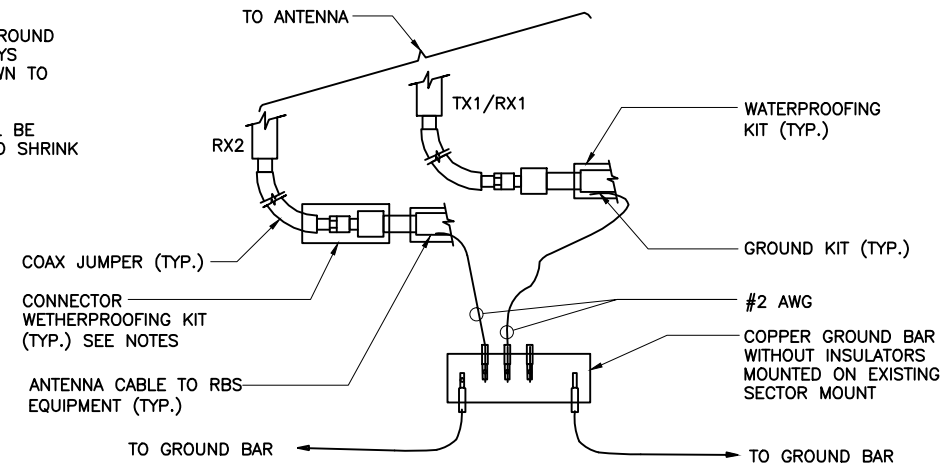


2 MECHANICAL LUG CONNECTION

SCALE: NOT TO SCALE

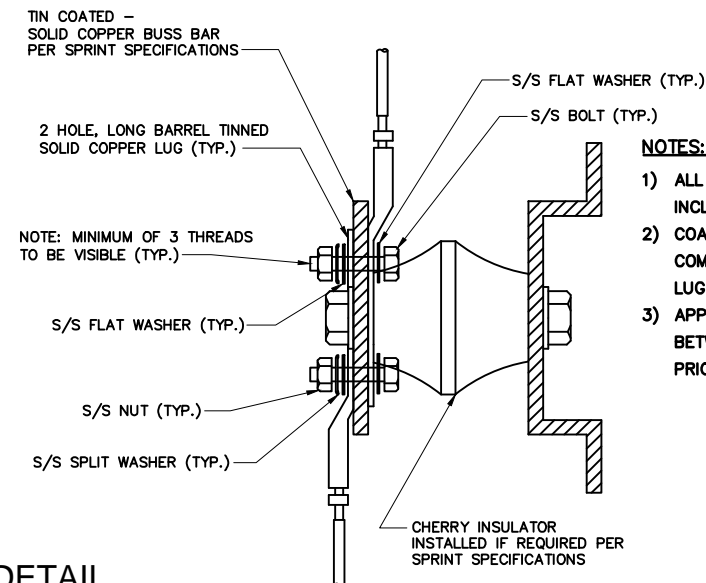
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.



4 ANTENNA GROUNDING KIT

SCALE: NOT TO SCALE

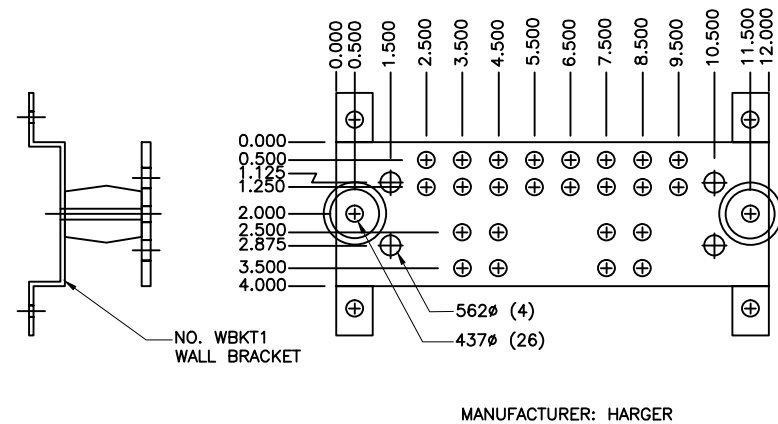


NOTES:

- 1) ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT WASHERS.
- 2) COAT WIRE END WITH ANTI-OXIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING.
- 3) APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS PRIOR TO MATING AND BOLTING.

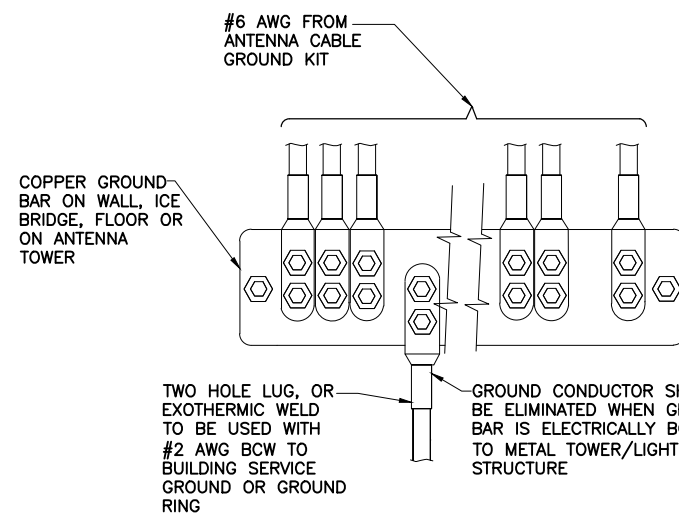
1 EXOTHERMIC WELD DETAILS

SCALE: N.T.S.



3 12" GROUND BAR

SCALE: NOT TO SCALE



NOTE:
GROUND BAR AT BOTTOM OF TOWERS/LIGHT POLES SHALL ONLY USE EXOTHERMIC WELDS.

5 INSTALLATION OF GROUND WIRE TO GROUND BAR AT GRADE

SCALE: NOT TO SCALE

6 GENERAL LUG DETAIL

SCALE: NOT TO SCALE

OWNER/APPLICANT FOR:



1 INTERNATIONAL BOULEVARD
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SITE ACQ.:



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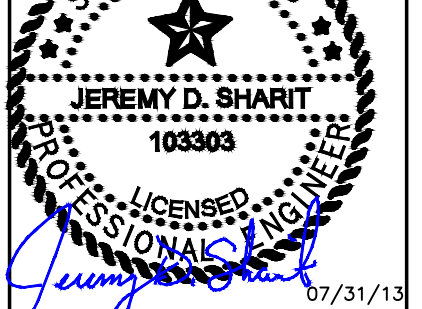
1223931

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Δ	SUB: SEALED FINALS	JDS 10/16/12
Δ	SUB: REV. FINALS	JDS 07/31/13

SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:

E-6