PITAS POINT
VR03XC049
CROWN SITE: 881022

MONOPOLE

3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

SHEET DESCRIPTION

SHEET INDEX

CALIFORNIA STATE CODE COMPLIANCE

SPRINT PROPOSES THAT ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFIRMING TO THESE CODES.

- CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25).
- 2016 CALIFORNIA BUILDING CODE.
- CITY/ COUNTY ORDINANCES.
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA).
- 2016 MECHANICAL CALIFORNIA CODE.
- ANSI/ EIA-222-F LIFE SAFETY CODE NFPA-101.
- 2016 CALIFORNIA PLUMBING CODE.
- 2016 CALIFORNIA ELECTRICAL CODE.
- 2016 LOCAL BUILDING CODE.

ACCESSIBILITY REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

811 DIG ALERT
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG

CODE BLOCK

VICINITY MAP

SPRINT PROPOSES TO MODIFY ITS EXISTING ANTENNA AND EQUIPMENT IN AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY.

- REMOVE (4) (E) PANEL ANTENNAS.
- INSTALL (2) (N) 800/1900 MHz PANEL ANTENNAS.
- INSTALL (2) (N) 800/2500 MHz PANEL ANTENNAS.
- INSTALL (4) (N) 800 MHz RRH'S.
- INSTALL (2) (N) 2500 MHz RRH'S.
- INSTALL (4) (N) FIBER OPTIC CABLES USING EXISTING COAX ROUTE.
- RELOCATE (2) (E) 1900 MHz RRH'S.

SCOPE OF WORK

PROJECT ARCHITECT

JEFFREY ROME & ASSOCIATES
131 INNOVATION DRIVE
SUITE 100
IRVINE, CALIFORNIA 92617
CONTACT: MINAH SEO
PHONE: (949) 760-3929
EMAIL: MINAHS@JRAINC.NET

STRUCTURAL ENGINEER

ZALZALI & ASSOCIATES, INC.
WISSAM ZALZALI
PHONE: (949) 273-0996
EMAIL: WISSAM@ZALZALI.COM

CONSTRUCTION MANAGER:

SPRINT
ROBERT GUERRA
PHONE: (909) 496-0775
EMAIL: NORBERTOGUERRA@SPRINT.COM

PROJECT MANAGER

CROWN CASTLE
200 SPECTRUM CENTER DRIVE, SUITE 1700
IRVINE, CALIFORNIA 92614
CONTACT: CHELSEA WARREN
PHONE: (314) 973-8212

TELCO COMPANY:

TBD

POWER COMPANY:

SCE

TOWER COMPANY:

CROWN CASTLE
200 SPECTRUM CENTER DRIVE, SUITE 1700
IRVINE, CALIFORNIA 92614

County of Ventura
Planning Director Hearing
Case No. PL20-0055
Exhibit 2 - Site Plans

PROJECT TEAM

APPROVAL	SIGNATURE	DATE
PROJECT MANAGER		
CONSTRUCTION MANAGER		
RF ENGINEER		
SITE ACQUISITION		
PLANNING CONSULTANT		
PROPERTY OWNER		
SPRINT REPRESENTATIVE		

SIGNATURE BLOCK

PROPERTY LINE	
FENCE LINE	
HOLLOW METAL FENCE	
COAXIAL CABLE	
CABLE TRAY	
CABLE BRIDGE	
1 / A-1	DETAIL REFERENCE
1	ELEVATION REFERENCE
BTS:	BASE TRANSCEIVER STATION
CDMA:	CODE DIVISION MULTIPLE ACCESS
RRH:	REMOTE RADIO HEADS
GPS:	GLOBAL POSITIONING SYSTEM

LEGEND

APPLICANT:
SPRINT
3120 COMMERCE #200
IRVINE, CALIFORNIA 92602
CONTACT: KERRI SHIMER
PHONE: (951) 288-3508

PROPERTY OWNER:
FARIA FAMILY PARTNERSHIP
P.O. BOX 11
VENTURA, CALIFORNIA 93002

PROPERTY INFORMATION:
CALIFORNIA BUILDING CODE: 2016 EDITION
EXISTING CONSTRUCTION TYPE: TYPE V-B
PROPOSED CONSTRUCTION TYPE: TYPE V-B
EXISTING OCCUPANCY: S-2
PROPOSED OCCUPANCY: S-2
EXISTING USE: TELECOMMUNICATIONS
PROPOSED USE: TELECOMMUNICATIONS
ZONING CLASSIFICATION: TBD
JURISDICTION: VENTURA COUNTY
LATITUDE: 34.32250000° (34° 19' 20.999" N)
LONGITUDE: -119.38027000° (119° 22' 48.972" W)

PARCEL NUMBER:
648-260-02-0

LEASE AREA:
NO CHANGE IN EXISTING LEASE AREA

PROJECT SUMMARY

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 11"X17" OR 22"X34" FORMAT. IF THIS DRAWING SET IS NOT 11"X17" OR 22"X34", THIS SET IS NOT TO SCALE.

DRAWING SCALE

Sprint

CROWN CASTLE
200 Spectrum Center Drive, Suite 1700
Irvine, California 92618

PLANS PREPARED BY:
jra
Jeffrey Rome | ASSOCIATES
architecture | telecommunications
131 Innovation Drive; Suite 100
Irvine, California 92617
tel 949.760.3929 | fax 949.760.3931

REVISIONS

REV.	DATE	DESCRIPTION	INIT.
1	08/16/17	90% CD REVIEW	MS
2	08/28/17	100% FINAL CD'S	MS
3	09/06/17	CLIENT COMMENTS	BV
4	12/13/17	PC COMMENTS	MS
5			

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

REGISTERED ARCHITECT
JEFFREY L. ROME
C-020876
EXP. 2.28.19
STATE OF CALIFORNIA

SITE INFORMATION:
VR03XC049
CROWN SITE: 881022
PITAS POINT
3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

JRA JOB NUMBER: 171584

SITE PLAN GENERAL NOTES

SETBACKS:
FRONT YARD = TBD
BACK YARD = TBD
SIDE YARDS = TBD

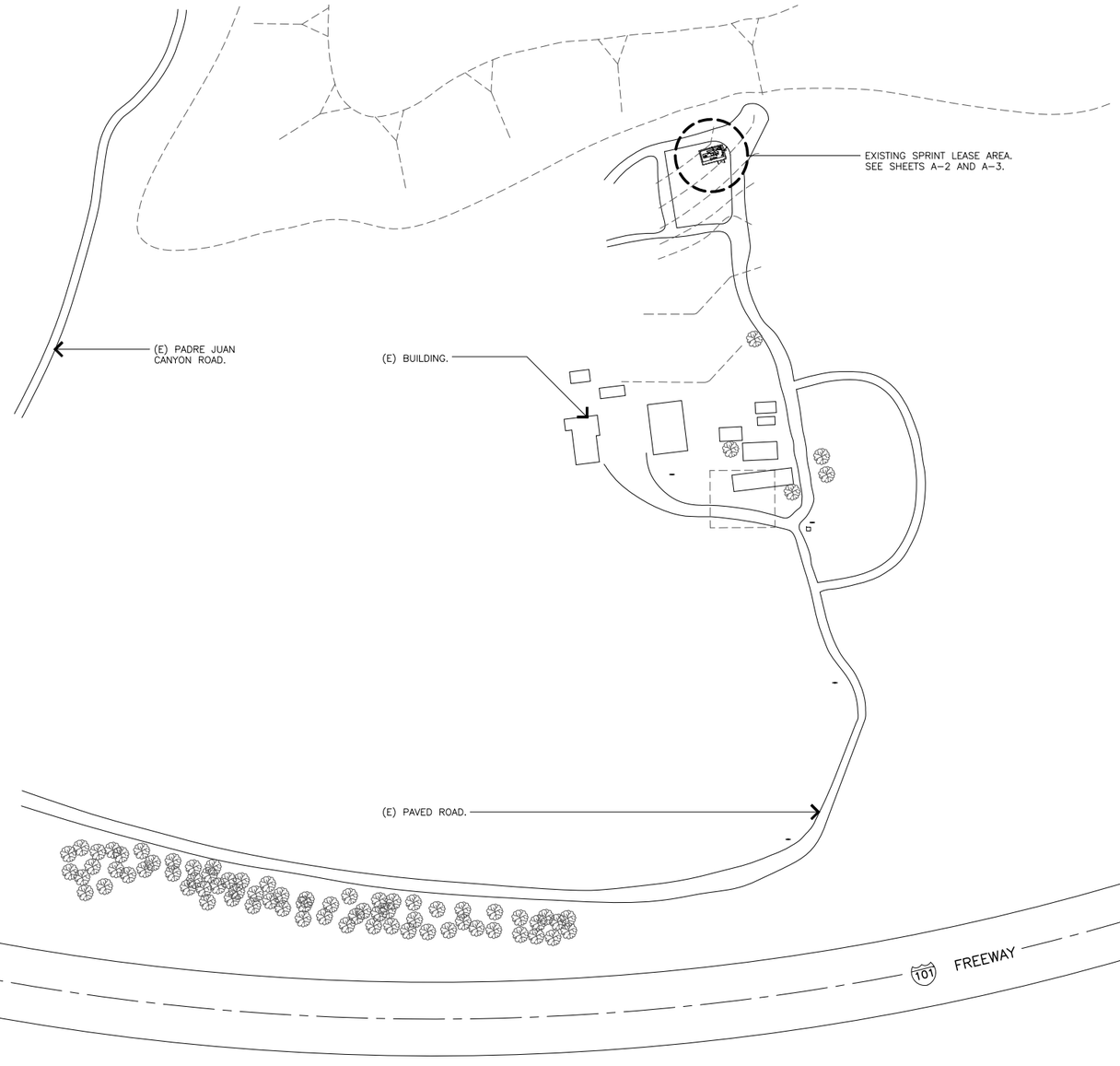
1. SITE CONTRACTOR TO CALL DIG ALERT (1-800-227-2600) TO LOCATE ANY AND ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
2. ALL FACILITIES TO BE INSTALLED ARE UNMANNED. NO EXISTING PARKING SPACES WILL BE IMPACTED BY THE NEW USE.
3. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL INCORPORATE ANY CONSTRUCTION BEST MANAGEMENT PRACTICES NECESSARY.
4. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL SUBMIT A WATER POLLUTION CONTROL PLAN (WPCP). THE WPCP SHALL BE PREPARED IN ACCORDANCE WITH THE CITY'S STORM WATER STANDARDS.

STORM WATER QUALITY NOTES CONSTRUCTION BMP'S

THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD.

NOTES 1-6 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S.

1. SUFFICIENT BMPS TO BE DEPLOYED, I.E. GRAVEL BAGS, DRY CLEANUP METHODS, COVERED STORAGE, ETCMUST BE INSTALLED TO PREVENT SILT, MUD OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEMS DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREECH IN THE INSTALLED CONSTRUCTION BMPS.
2. ALL STOCK PILES OF UNCOMPACTED SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT UNPROTECTED FOR A PERIOD GREATER THAN SEVEN CALENDAR DAYS ARE TO BE PROVIDED WITH EROSION AND SEDIMENT CONTROLS. SUCH SOIL MUST BE PROTECTED EACH DAY WHEN THE PROBABILITY OF RAIN IS 40% OR GREATER.
3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
4. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.



SITE PLAN

11x17 SCALE: 1"=160'
24x36 SCALE: 1"=80'
0 40' 80' 160'

1

Sprint

CROWN CASTLE
200 Spectrum Center Drive, Suite 1700
Irvine, California 92618

PLANS PREPARED BY:
jra
Jeffrey Rome | ASSOCIATES
architecture | telecommunications
131 Innovation Drive; Suite 100
Irvine, California 92617
tel 949.760.3929 | fax 949.760.3931

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NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

REGISTERED ARCHITECT
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C-020876
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VR03XC049
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PITAS POINT

3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

A-1

JRA JOB NUMBER: 171584

GENERAL GUIDELINES

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.

2. THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE SPRINT CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.

4. DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.

5. THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.

6. CONTRACTOR SHALL NOTIFY THE SPRINT CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.

7. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.

8. THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH SPRINT CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ERICSSON RADIO SYSTEMS.

9. ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.

10. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO SPRINT.

11. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

12. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:

    NRCA NATIONAL ROOFING CONTRACTORS ASSOCIATION
    O'HARE INTERNATIONAL CENTER
    10255 W. HIGGENS ROAD, SUITE 600
    ROSEMONT, IL 60018

    SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS
    NATIONAL ASSOCIATION
    4201 LAFAYETTE CENTER DRIVE
    CHATILLY, VA 22021-1209

    ITLP INTERNATIONAL INSTITUTE FOR LATH AND PLASTER
    820 TRANSFER ROAD
    ST. PAUL, MN 55114-1406

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

14. THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGARS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.

15. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.

16. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND SPRINT PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF SPRINT, AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

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

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

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

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

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

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

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

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

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

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

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

28. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.

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

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

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY SPRINT.

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

33. NOTIFY SPRINT PRIOR TO ANY RF OR SITE CONCERNS 1-866-400-6040.

ROOFING & WATERPROOFING NOTES

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

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

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

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

5. AT THE SPRINT CONSTRUCTION MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE ROOFTOP WALK PADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND ALONG COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY APC OR EQUAL. ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A SPECIFIC PRODUCT AS NOTED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE.

PENETRATION AT FIRE RATED ASSEMBLIES

1. AT THE SPRINT PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH PERFORMANCE FIRE STOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.

2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

WORK ENVIRONMENT

1. CONTRACTOR AND CREW SHALL ABIDE BY THE UNITED STATES DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS (OSHA) AS DESCRIBED IN OSHA'S HANDBOOK OF GUIDELINES.

2. CONTRACTOR AND CREW SHALL ABIDE BY SPRINT SAFETY STANDARDS AS DESCRIBED IN SPRINT'S SAFETY HANDBOOK.

PAINTING NOTES & SPECIFICATIONS

A. GENERAL

1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.

2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.

3. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.

4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.

5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE SPRINT CONSTRUCTION MANAGER.

6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.

7. FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.

8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.

9. APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.

10. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE SPRINT CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

B. PAINTING SCOPE

1. PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

PAINTING SCOPE

SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
BTS UNIT				
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT				
ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUIT AND HANGERS, ETC.				
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES				
STUCCO, CONCRETE, CONCRETE BLOCK AND CEMENTIOUS TYPE FINISH SYSTEMS.				
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREENWALLS				
DRYWALL				
CONCRETE POLES				
METAL POLES AND METAL POLE STAND-OFF				

C. COATING SYSTEM SPECIFICATIONS

1. DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50).

2. 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER.

PAINT & PRIMER

D. ANTENNAS
PRIMER - KEM AQUA E61-W525
TOPCOAT - COROTHANE II B65W200/B60V22

BTS CABINET
PRIMER - KEM AQUA E61-W525
TOPCOAT - COROTHANE II B65W200/B60V22

COAXIAL JUMPER CABLES
PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25%
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

RAW STEEL
PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

GALVANIZED METAL
ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)

STAINLESS STEEL
PRIMER - OTM WASH PRIMER, B71Y1
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

PRE-PRIMED STEEL
TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, SS0WZ4

ALUMINUM & COPPER
PRIMER - DTM WASH PRIMER, B71Y1
TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2

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

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

STUCCO
PRIMER - PRO MAR MASONRY CONDITONER B-46-W21000
TOPCOAT - SUPER PAINT A-80 SERIES A-89 SATIN A-84 GLOSS

WOOD
PRIMER - A-100 EXTERIOR ALKYD WOO9D PRIMER Y-24W20
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES

FIELD CUTS/DAMAGE(PRIOR TO PRIME & PAINT)
FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0356
ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT

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

STRUCTURAL SPECIFICATIONS

A. GENERAL

PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.

A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.

B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.

2. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.

3. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.

4. SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN IT'S COMPLETED FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.

5. SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.

6. WATERPROOFING: WATERPROOFING AND DRAINAGE, DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT.

B. STEEL

1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.

2. ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325

3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.

4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.

5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.

6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
A. 250 AMP WELDERS.
B. ROD OVENS.
C. GRINDERS.

7. NO BUZZ BOXES SHALL BE USED.

8. ALL STRUCTURAL STEEL SHALL MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.

9. ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.

10. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.

11. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALLY NOTED "FULL STRESS" AT END OF WELD SYMBOL.

C. CONCRETE

1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:

LOCATION	STRENGTH	WT.	SLUMP	ADMIXTURE
A. SLAB&FOOTING	3000psi	150pcf	4"	NONE

2. INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.

3. REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PERFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:

#4 & SMALLER BARS.....GRADE 40
#5 & LARGER BARS.....GRADE 60
ALL BARS AT CAISSON FOOTING...GRADE 60

4. CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.

5. AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:

A. FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL
B. PIER/CAISSON FOOTING: 1" GRAVEL.

6. WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.

7. MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94, NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.

8. SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT.

9. SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.

10. REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:

A. CONCRETE IN CONTACT WITH EARTH, UNFORMED	3"
B. CONCRETE IN CONTACT WITH EARTH, FORMED	2"
C. WALL, EXTERIOR FACE	1-1/2"
D. WALL, INTERIOR FACE	1"
E. STRUCTURAL SLABS	3/4"
F. JOISTS	3/4"
G. BEAMS, GIRDERS & COLUMNS	1-1/2"

11. PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVED. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.

12. EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.

13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC.,SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.

14. CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.

15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.

D. TIMBER

1. ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR., S45, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

2. ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, S45, UNLESS NOTED OTHERWISE ON DRAWINGS

3. STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S4S. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.

4. ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.

5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16. EDGE NAIL WITH8d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FIELD NAIL WITH 8d AT 12" O.C.

6. PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.

7. PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.

8. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.

9. MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-q OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.

10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.

11. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.

12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.

13. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.

14. ALASKAN YELLOW C

NOTES TO CONTRACTOR:

1. REMOVE ALL EXISTING CDMA COAX AND ANTENNAS FROM SITE.
2. NEW ANTENNAS AND HARDWARE TO BE PAINTED TO MATCH EXISTING BUILDING OR POLE.
3. CONTRACTOR TO SET ELECTRICAL TILT.
4. ALL TOWER MOUNTED EQUIPMENT MUST BE BEHIND THE (N) SPRINT ANTENNA. EQUIPMENT MUST BE WITHIN 8' VERTICAL SPACE. ALL PANEL ANTENNAS AND RELATED HARDWARE MUST BE PAINTED TO MATCH EXISTING MONOPOLE.

SECTOR	ANTENNA	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	ANTENNA MODEL	RRH	RRH MODEL	FIBER OPTIC MODEL	FIBER OPTIC LENGTH (±5')	JUMPER CABLE LENGTH (±5')	COMBINER MODEL
1	800/2500	110°	20.0'	1	APXVTSM18-C-I20	1	RRH 2.5 TD-RRH8X20	(1) HYBRIFLEX 1-1/4"ø HB114-1-08U4-M5J	40'	10'	N/A
	800/1900			1	APXVSPP18-C-A20	2	RRH 1900 4X45 65 MHz				
	–			–	–	1	RRH 2X50-800				
2	800/2500	220°	20.0'	1	APXVTSM18-C-I20	1	RRH 2.5 TD-RRH8X20	(1) HYBRIFLEX 1-1/4"ø HB114-1-08U4-M5J	40'	10'	N/A
	800/1900			1	APXVSPP18-C-A20	2	RRH 1900 4X45 65 MHz				
	–			–	–	1	RRH 2X50-800				
3	–										

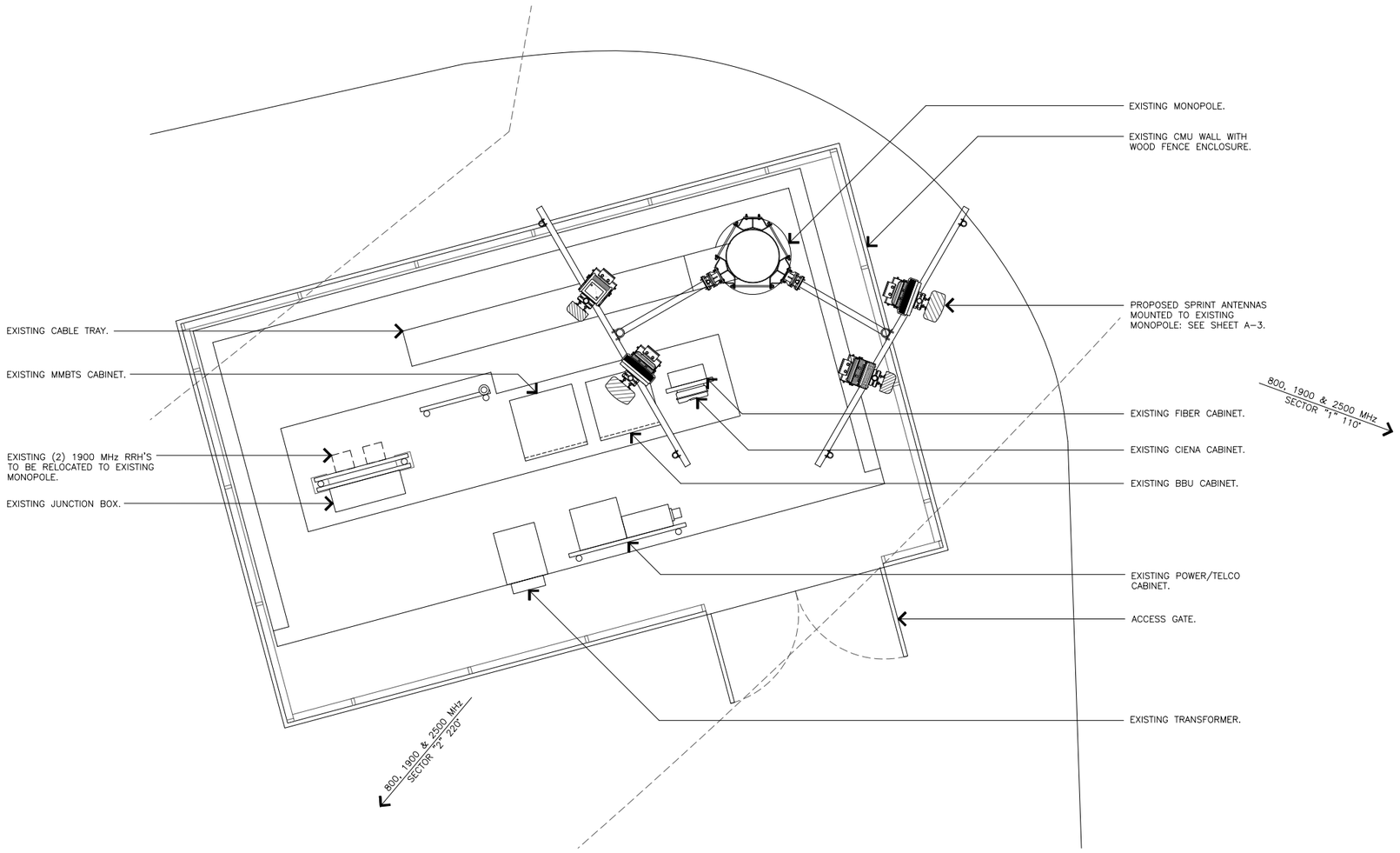
TOTAL (1) LINE OF 5/8"ø FOR ALL (3) SECTORS

IMPORTANT NOTE: INSTALLER VERIFY LATEST PLUMBING/WIRING DIAGRAMS, PRIOR TO INSTALLATION.

VERIFY CURRENT RFDS SHEET PRIOR TO BUILD

SCALE: NONE

2



ENLARGED SITE PLAN

11x17 SCALE: 3/16"=1'-0"
24x36 SCALE: 3/8"=1'-0"
0 1' 2' 3' 6'

1

Sprint

CROWN CASTLE
200 Spectrum Center Drive, Suite 1700
Irvine, California 92618

PLANS PREPARED BY:
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Jeffrey Rome | ASSOCIATES
architecture | telecommunications
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Irvine, California 92617
tel 949.760.3929 | fax 949.760.3931

REVISIONS

REV.	DATE	DESCRIPTION	INIT.
1	08/16/17	90% CD REVIEW	MS
2	08/28/17	100% FINAL CD'S	MS
3	09/06/17	CLIENT COMMENTS	BV
4	12/13/17	PC COMMENTS	MS
5			

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

REGISTERED ARCHITECT JEFFREY L. ROME C-020876 EXP. 2.29.19 STATE OF CALIFORNIA

SITE INFORMATION:

VR03XC049
CROWN SITE: 881022
PITAS POINT

3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

SHEET TITLE:

ENLARGED SITE PLAN

SHEET NUMBER:

A-2

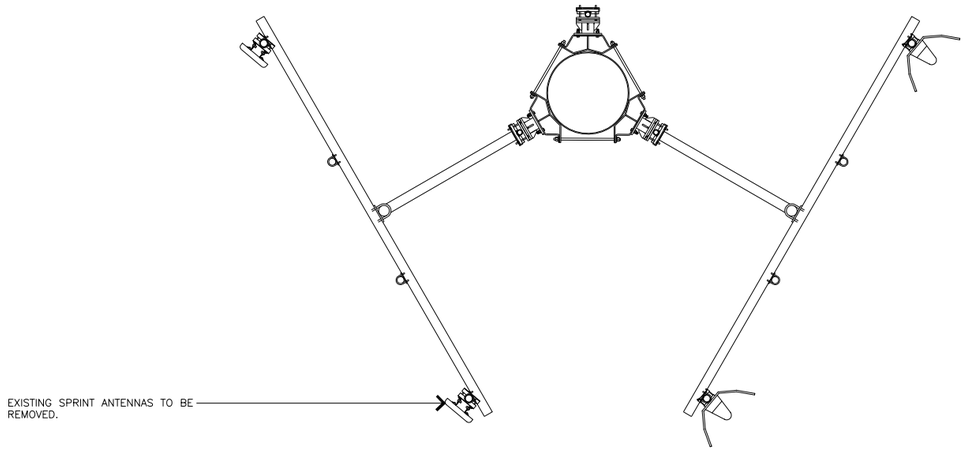
JRA JOB NUMBER: 171584

ANTENNA LAYOUT PLAN NOTES

1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.

(E) EXISTING ANTENNA

(N) PROPOSED ANTENNA



N

EXISTING ANTENNA LAYOUT PLAN

11X17 SCALE: 1/4"=1'-0"
22X34 SCALE: 1/2"=1'-0"

0 1' 2' 4'

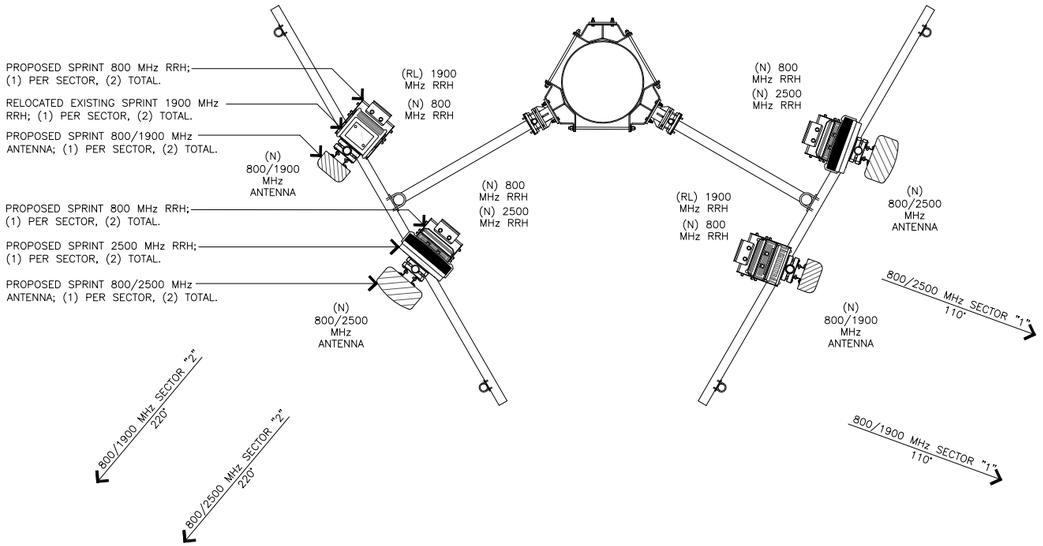
2

ANTENNA LAYOUT PLAN NOTES

1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.
2. ALL ANTENNAS MUST BE PAINTED AND TEXTURED TO MATCH EXISTING BUILDING OR POLE.

(E) EXISTING ANTENNA

(N) PROPOSED ANTENNA



N

SEE SHEET A-7 FOR ANTENNA AND RRH SPECIFICATIONS.
SEE SHEET E-1 FOR ANTENNA DIAGRAM AND GROUNDING.

FINAL ANTENNA LAYOUT PLAN

11X17 SCALE: 1/4"=1'-0"
22X34 SCALE: 1/2"=1'-0"

0 1' 2' 4'

1

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4	12/13/17	PC COMMENTS	MS
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REGISTERED ARCHITECT
JEFFREY L. ROME
C-020826
EXP. 12.31.19
STATE OF CALIFORNIA

SITE INFORMATION:

VR03XC049
CROWN SITE: 881022
PITAS POINT

3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

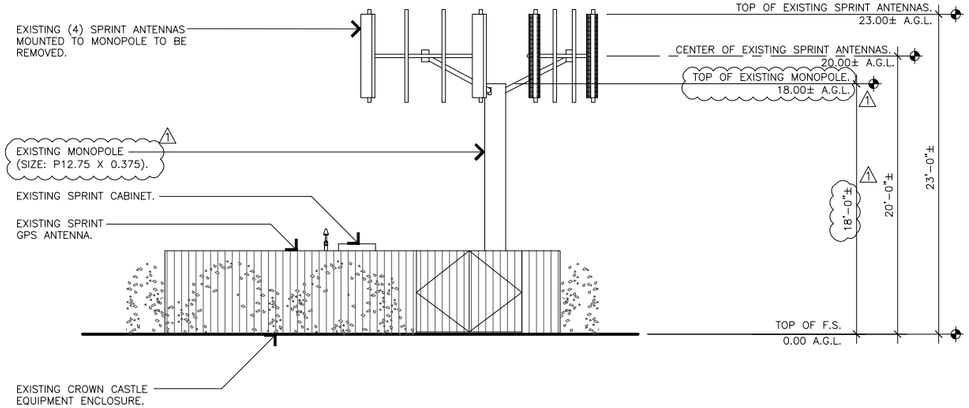
SHEET TITLE:

ANTENNA LAYOUT PLAN

SHEET NUMBER:

A-3

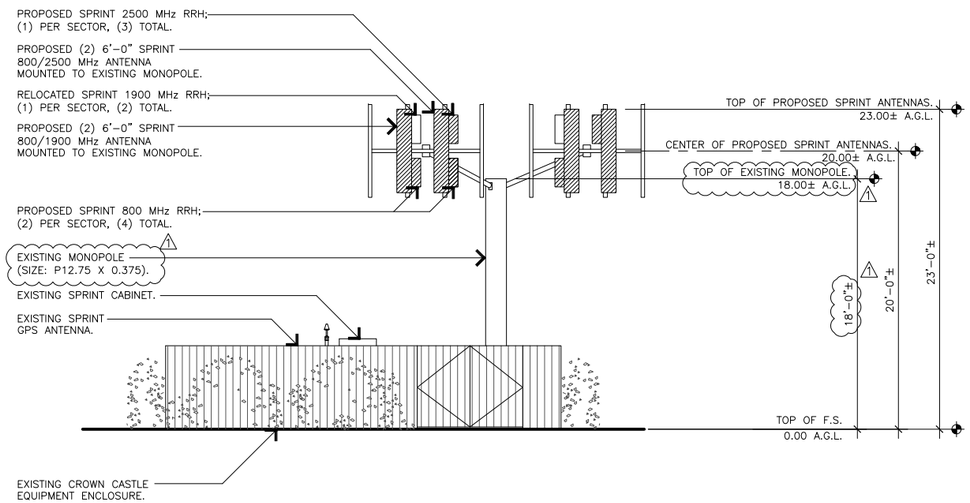
JRA JOB NUMBER: 171584



EXISTING SOUTH ELEVATION

11x17 SCALE: 3/16"=1'-0"
24x36 SCALE: 3/8"=1'-0"
0 1' 2' 3' 6'

2



PROPOSED SOUTH ELEVATION

11x17 SCALE: 3/16"=1'-0"
24x36 SCALE: 3/8"=1'-0"
0 1' 2' 3' 6'

1

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REGISTERED ARCHITECT
JEFFREY L. ROME
C-020876
EXP. 2.29.19
STATE OF CALIFORNIA

SITE INFORMATION:

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CROWN SITE: 881022
PITAS POINT

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VENTURA, CALIFORNIA 93002
VENTURA COUNTY

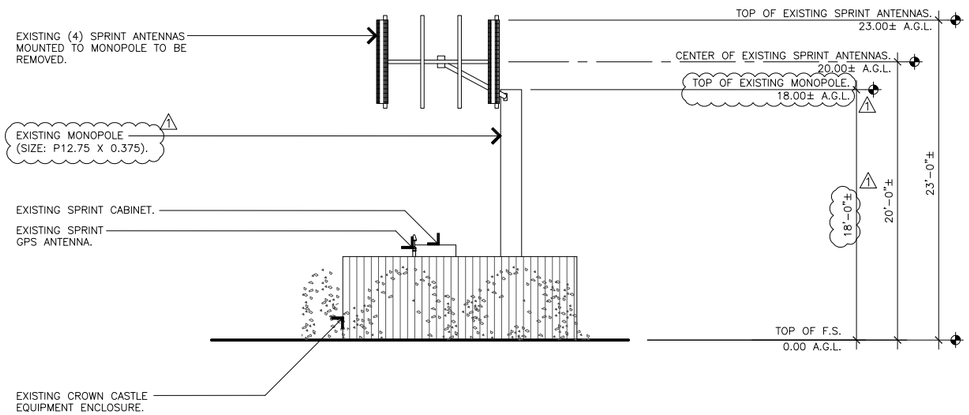
SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

A-4

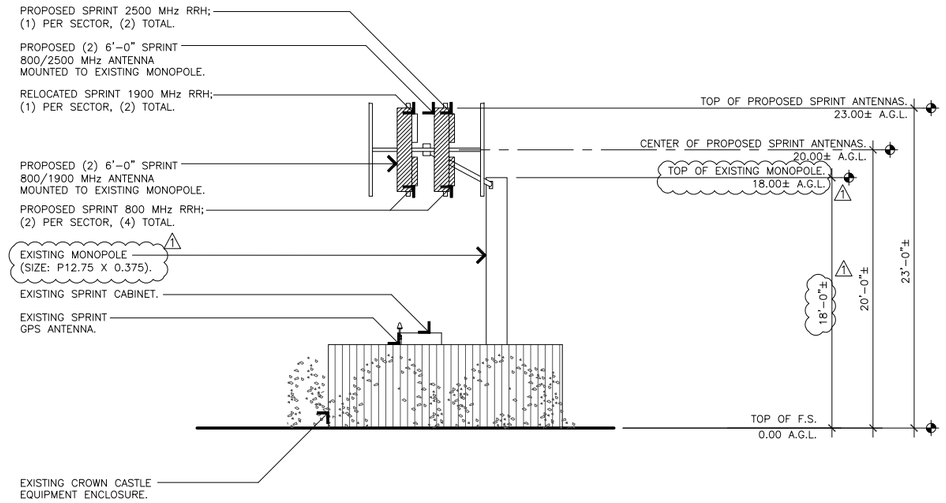
JRA JOB NUMBER: 171584



EXISTING EAST ELEVATION

11x17 SCALE: 3/32"=1'-0"
22x34 SCALE: 3/16"=1'-0"
0 3' 6' 12'

2



PROPOSED EAST ELEVATION

11x17 SCALE: 3/32"=1'-0"
22x34 SCALE: 3/16"=1'-0"
0 3' 6' 12'

1

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REGISTERED ARCHITECT
JEFFREY L. ROME
C-020826
EXP 2-28-19
STATE OF CALIFORNIA

SITE INFORMATION:

VR03XC049
CROWN SITE: 881022
PITAS POINT

3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

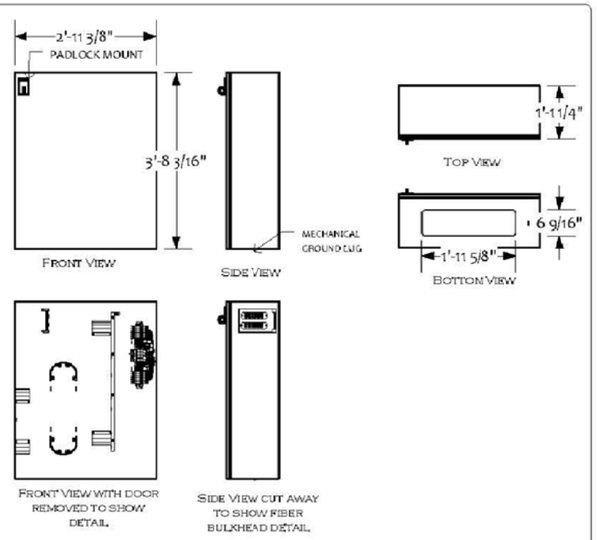
SHEET TITLE:

ELEVATIONS

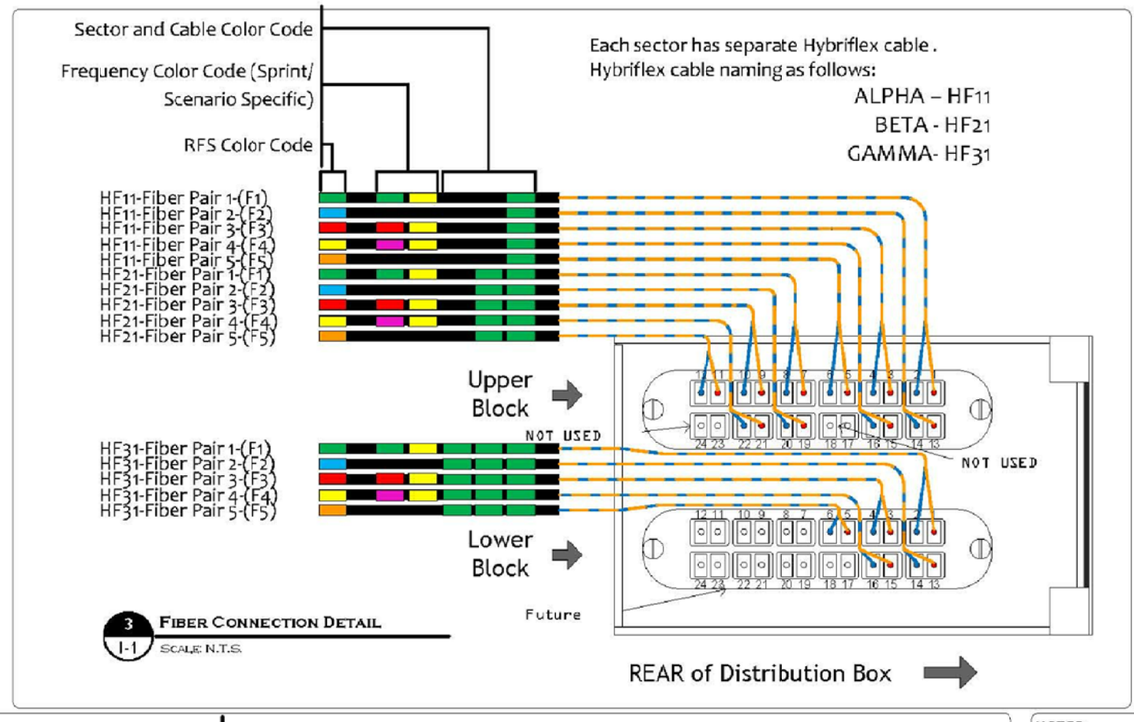
SHEET NUMBER:

A-5

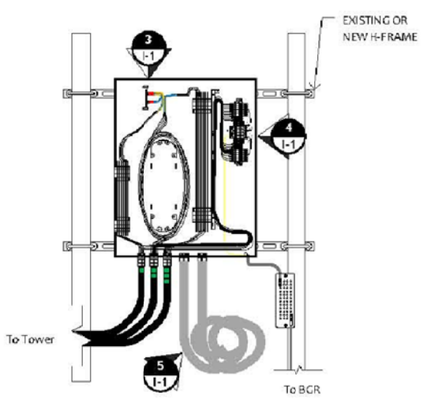
JRA JOB NUMBER: 171584



1 I-1 **DISTRIBUTION BOX DETAIL**
SCALE: 1 : 96

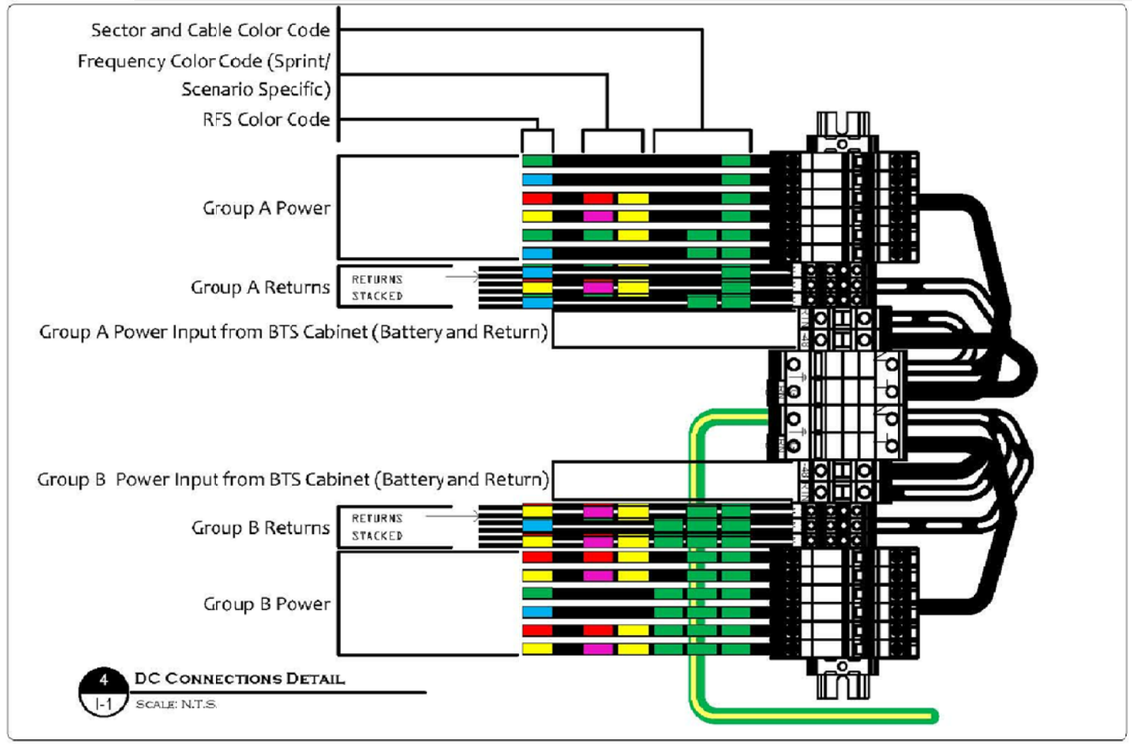


3 I-1 **FIBER CONNECTION DETAIL**
SCALE: N.T.S.



FRONT VIEW WITH DOOR REMOVED TO SHOW DETAIL

2 I-1 **DISTRIBUTION BOX INSTALL COMPLETE VIEW**
SCALE: 1 : 96



4 I-1 **DC CONNECTIONS DETAIL**
SCALE: N.T.S.

NOTES:

- Distribution Box is kitted with 50' of 1 1/2" Liquid-tight conduit and connectors. This should be-
  - split in half (25' per),
  - terminated to the Distribution Box as shown,
  - ran to and coiled as close to where the cabinet is going to be mounted as possible.

- Distribution Box is kitted with 2AWG, power cable 35' X 2ea. Runs red and 2ea. Runs black. This should be coiled and left inside Distribution Box.

BTS installation team will terminate Liquid-tight, run the fiber jumpers and power cables from BTS Cabinet to Distribution Box.

5 I-1 **NOTES**
SCALE: N.A.

JUNCTION BOX DETAIL

Sprint

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1	08/16/17	90% CD REVIEW	MS
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3	09/06/17	CLIENT COMMENTS	BV
4	12/13/17	PC COMMENTS	MS
5			

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

REGISTERED ARCHITECT JEFFREY L. ROME C-020876 EXP. 2.28.19 STATE OF CALIFORNIA

SITE INFORMATION:

VR03XC049
CROWN SITE: 881022
PITAS POINT

3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

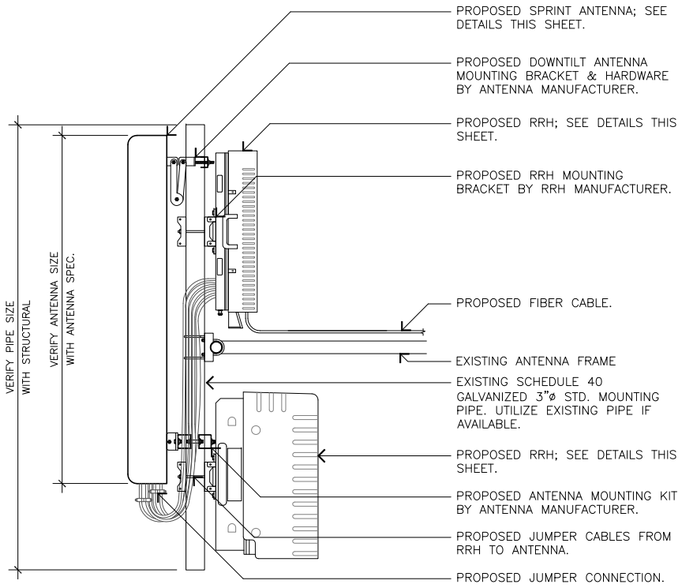
SHEET TITLE:

JUNCTION BOX DETAIL

SHEET NUMBER:

A–6

JRA JOB NUMBER: 171584



PROPOSED ANTENNA & RRH MOUNT DETAIL

SCALE: NONE | 6

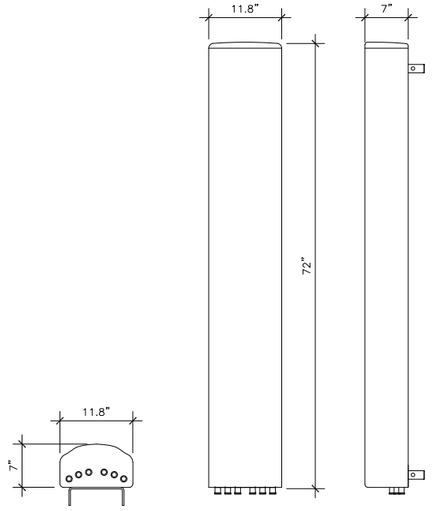
800/1900 DUAL APXVSPP18-C-A20 (PRIMARY)

ANTENNA COLOR: LIGHT GREY RAL7035

DIMENSIONS, HxWxD: 72" X 11.8" X 7"

WEIGHT: 57 LBS

CONNECTOR: (6) 7/16 DIN FEMALE



PLAN VIEW FRONT VIEW SIDE VIEW

PROPOSED 800/1900 ANTENNA DETAIL

SCALE: NONE | 4

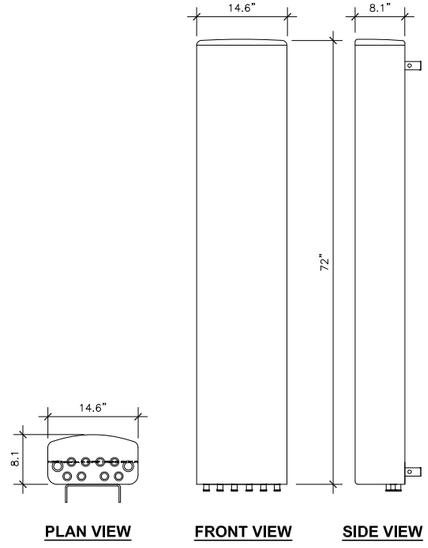
RFS APXVSM18-C-I20 ANTENNA

ANTENNA COLOR: LIGHT GREY RAL7035

DIMENSIONS, HxWxD: 72" X 14.6" X 8.1"

WEIGHT: 90 LBS

CONNECTOR: (8) 4.1/9.5 DIN FEMALE



PLAN VIEW FRONT VIEW SIDE VIEW

PROPOSED 800/2500 ANTENNA DETAIL

SCALE: NONE | 2

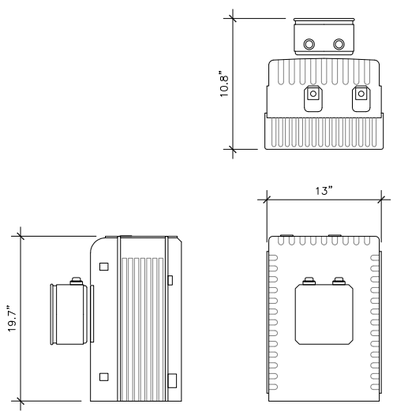
ALCATEL-LUCENT RRH2X50-800

MANUFACTURER: ALU

MODEL: RRH 800 2X50W

WEIGHT: 53 LBS

TOP VIEW



SIDE VIEW FRONT VIEW

PROPOSED 800 RRH DETAIL

SCALE: NONE | 5

NOT USED

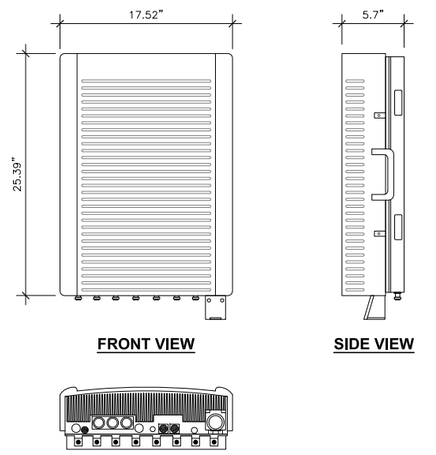
SCALE: NONE | 3

ALCATEL-LUCENT TD-RRH8x20

MANUFACTURER: ALU

MODEL: TD-RRH8X20

WEIGHT: 66 LBS



FRONT VIEW SIDE VIEW

BOTTOM VIEW

PROPOSED 2500 RRH DETAIL

SCALE: NONE | 1

Sprint

CROWN CASTLE
200 Spectrum Center Drive, Suite 1700
Irvine, California 92618

PLANS PREPARED BY:
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architecture | telecommunications
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Irvine, California 92617
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REVISIONS

REV.	DATE	DESCRIPTION	INIT.
1	08/16/17	90% CD REVIEW	MS
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SITE INFORMATION:

VR03XC049
CROWN SITE: 881022
PITAS POINT

3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

SHEET TITLE:

ANTENNA AND RRH DETAILS

SHEET NUMBER:

A-7

JRA JOB NUMBER: 171584

Product Data Sheet **HB058-M12-xxxF**

HYBRIFLEX™ RRH Fiber Only Cabling Solution, 0x18, Riser, 5/8", Multi-Mode Fiber

Product Description

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments.

It was developed to reduce installation complexity and costs at Cellular sites. HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process and eliminate the need for and cost of cable grounding. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable.

Figure 1: HYBRIFLEX Series

Features/Benefits

- Aluminum corrugated armor with outstanding bending characteristics – **minimizes installation time and enables mechanical protection and shielding**
- Outer conductor grounding – **Eliminates typical grounding requirements and saves on installation costs**
- Lightweight solution and compact design – **Decreases tower loading**
- Robust cabling – **Eliminates need for expensive cable trays and ducts**
- Installation of tight bundled fiber optic cable pairs directly to the RRH – **Reduces CAPEX and wind load by eliminating need for interconnection**
- Optical fiber housed in single corrugated cable – **Saves CAPEX by standardizing RRH cable installation and reducing installation requirements**
- UL-Listed, flame-retardant jacket, UV protected assembly – **Allows both indoor and outdoor applications**

Technical Specifications

Structure			
Outer Conductor Armor:	Corrugated Aluminum	[mm (in)]	18.5 (0.73)
Jacket:	Flame Retardant, UV-Resistant	[mm (in)]	21.4 (0.84)
Standards (meets or exceeds)			UL1569 Type MC UL Listed
Mechanical Properties			
Weight, Approximate		[kg/m (lb/ft)]	0.36 (0.242)
Minimum Bending Radius, Single Bending		[mm (in)]	90 (4)
Minimum Bending Radius, Repeated Bending		[mm (in)]	254 (10)
Recommended/Maximum Clamp Spacing		[m (ft)]	1.0 / 1.2 (3.25 / 4.0)
Electrical Properties			
DC-Resistance Outer Conductor Armor		[Ω/km (Ω/1000ft)]	1.97 (0.60)
Fiber Optic Properties			
Version			Multi-mode bend tolerant fiber-12 channel cable
Quantity, Fiber Count			18 pairs (9 main, 9 spares)
Core/Clad		[µm]	50/125
Primary Coating (Acrylate)		[µm]	250
Minimum Bending Radius (installation)		[mm (in)]	114.3 (4.5)
Insertion Loss @ wavelength 850nm		dB/km	3.0
Insertion Loss @ wavelength 1310nm		dB/km	1.0
Standards (Meets or exceeds)			UL Listed Type OFNR (UL1666) RoHS Compliant
Environment			
Installation Temperature		[°C (°F)]	-20 to +65 (-4 to +149)
Operation Temperature		[°C (°F)]	-40 to +65 (-40 to +149)
Storage Temperature		[°C (°F)]	-40 to +70 (-40 to +158)

* This data is provisional and subject to change.

HYBRIFLEX 5/8"ø SPECIFICATIONS | SCALE: NONE | 2

NOT USED | SCALE: NONE | 1

Sprint

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3945 PACIFIC COAST HIGHWAY
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VENTURA COUNTY

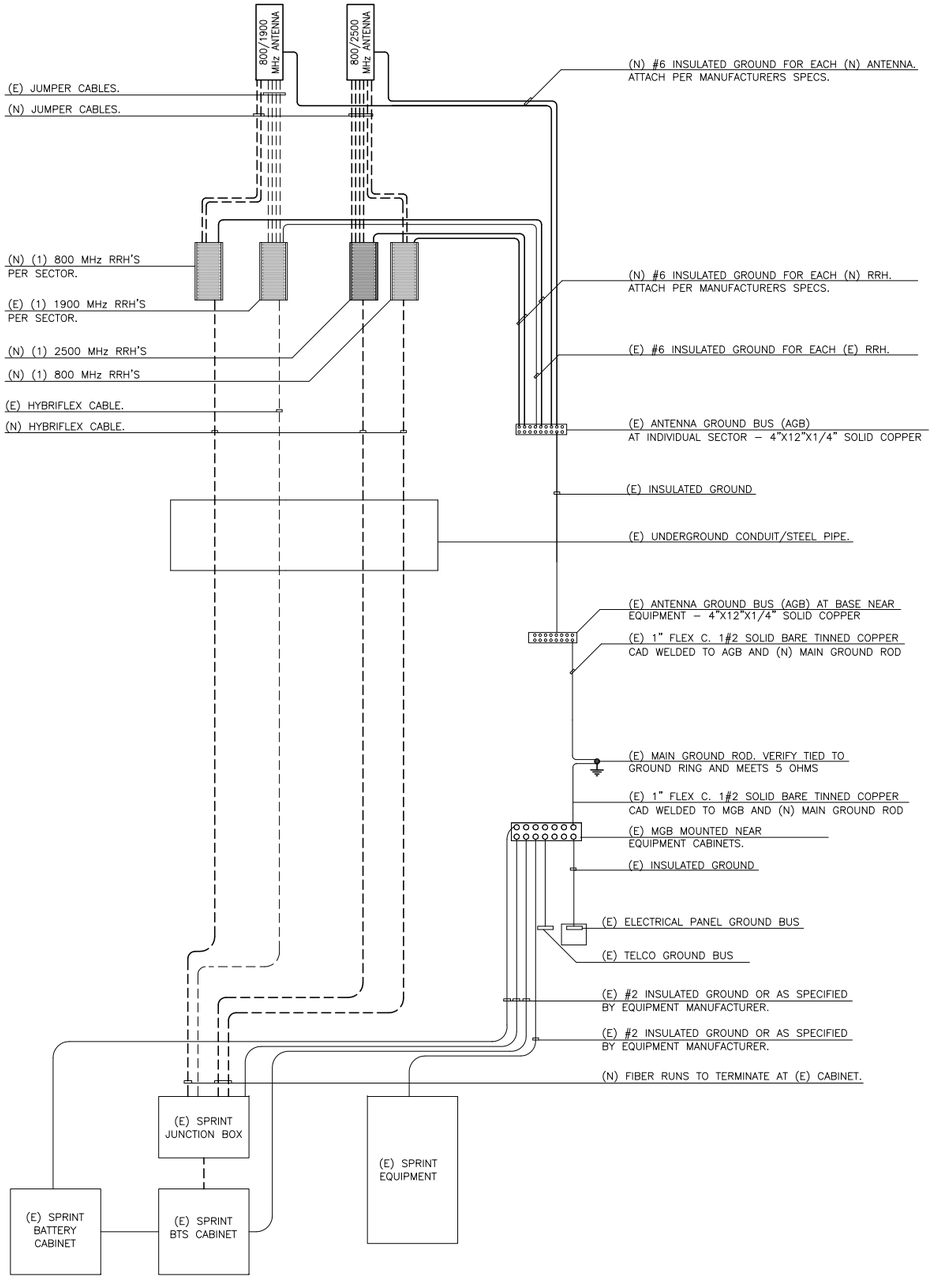
SHEET TITLE:

FEEDER CABLE SPECIFICATIONS

SHEET NUMBER:

A-8

JRA JOB NUMBER: 171584



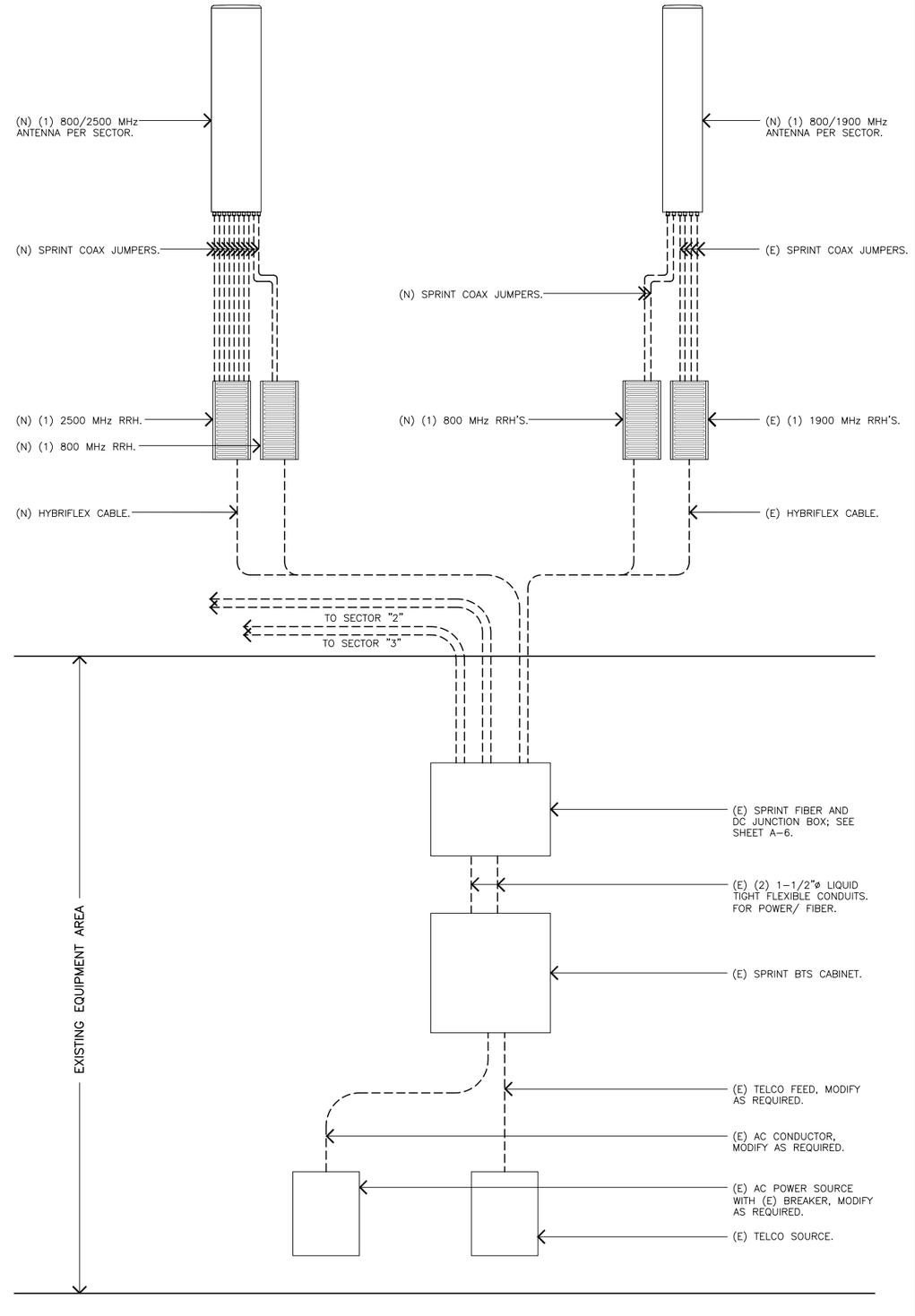
GENERAL NOTES:

1. SPLICE GROUND CONNECTIONS.
2. FOLLOW COAXIAL CABLE MANUFACTURES RECOMMENDATIONS (TYPICAL)
3. ALL INSULATED GROUND WIRES TO BE STRANDED, AWG WIRE UNLESS NOTED OTHERWISE.
4. THIS IS TYPICAL FOR ONE SECTOR OF ANTENNAS. SEE PLANS FOR NUMBER OF SECTORS.
5. NUMBER OF COAX IS DIAGRAMATIC.
6. EXISTING DIPLEXER'S AND EXISTING TMA'S NOT SHOWN FOR CLARITY.
7. FOLLOW SPRINT STANDARD GROUNDING METHOD.

COAX & GROUNDING SYSTEM SCHEMATIC

SCALE: NONE

2



DC/ FIBER/ COAX SINGLE LINE DIAGRAM

SCALE: NONE

1

Sprint

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REGISTERED ARCHITECT
JEFFREY L. ROME
C-020878
EXP. 2-28-19
STATE OF CALIFORNIA

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PITAS POINT

3945 PACIFIC COAST HIGHWAY
VENTURA, CALIFORNIA 93002
VENTURA COUNTY

SHEET TITLE:

DC SINGLE LINE DIAGRAMS

SHEET NUMBER:

E-1

JRA JOB NUMBER: 171584