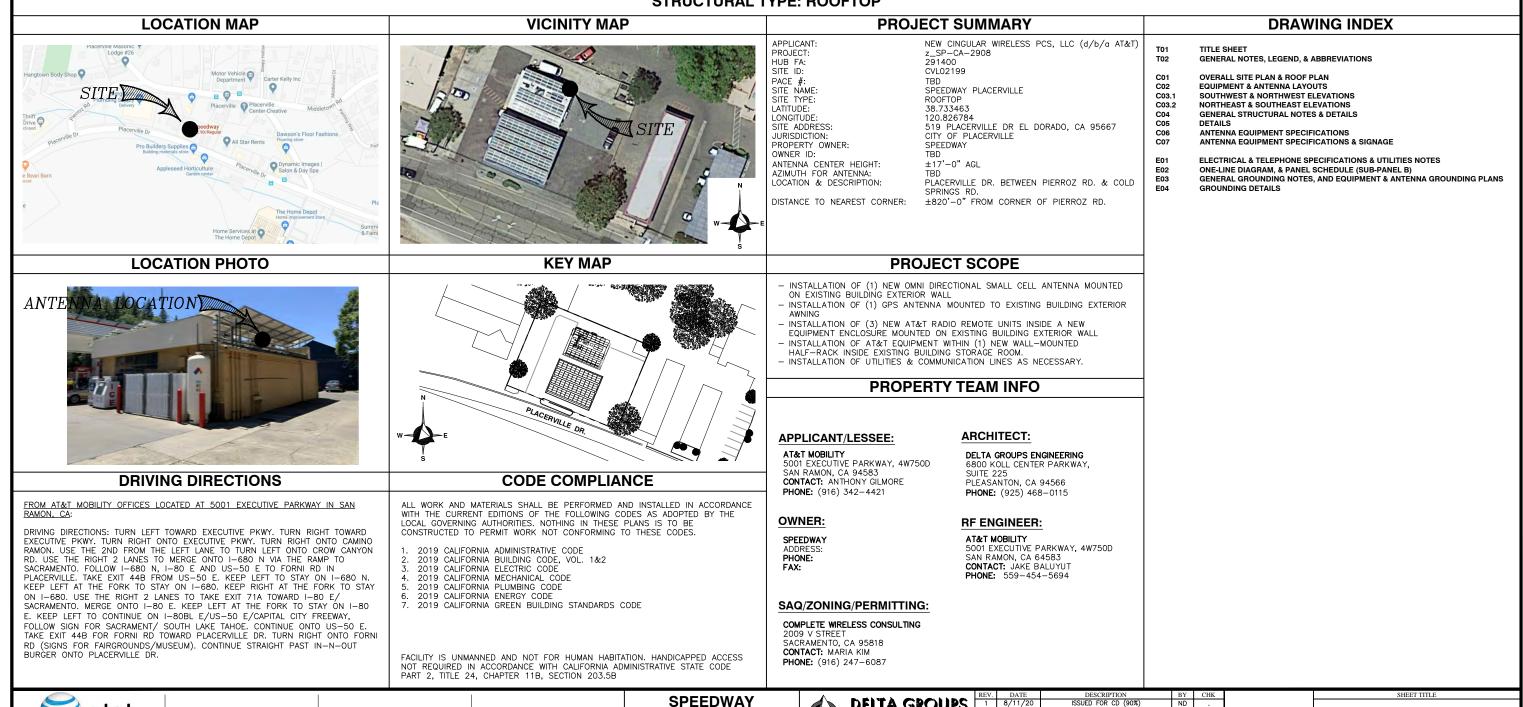


SITE NAME: SPEEDWAY PLACERVILLE PROJECT NAME: z SP-CA-2908

> AT&T SITE ID: CVL02199 AT&T FA #: 15327527

SITE ADDRESS: 519 PLACERVILLE DR. PLACERVILLE, CA 95667

STRUCTURAL TYPE: ROOFTOP





# PLACERVILLE DR CVL02199

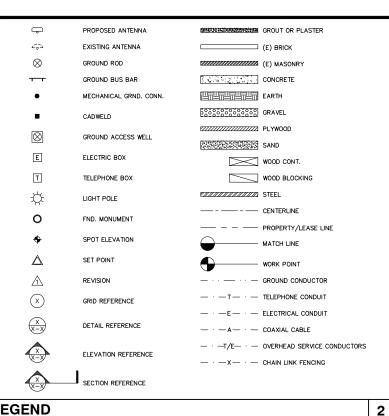
519 PLACERVILLE DR PLACERVILLE, CA 95667

	DELTA GROUP ENGINEERING, INC CONSULTING ENGINEE
	CONSOLITING ENGINEE

	CONSU	LTIM	g en	GINE
6800 KOLL CENTE PLEASANTON, CA	R PARKWAY,	SUITE	225	
TEL (025) 468-7	1115	EAV.	(025)	468_0

_	REV.	DATE	DESCRIPTION	BY	CHK	
2	1	8/11/20	ISSUED FOR CD (90%)	ND		
_	2	9/03/20	ISSUED FOR CD (90%)	ND		
C.						
RS						
355						

SHEET	TITLE					
TITLE SHEET						
SHEET	DGE NO.					
	P20AT005					
T01	SITE NAME					
	SPEEDWAY PLACERVILLE					



**LEGEND** ANCHOR BOLT ACC.A ADD'L A.F.F. A.F.G. A.F.F. A.F.G. AGUM. ALT. LAMSL ANT. X ARCH. APPRX ARCH. BLDG. BLK. BM. B.O.F. CLG. CONC. CCONS. CCONS. CONST. CONST. CONST. ANTENNA CABLE COVER ASSEMBLY
ADDITIONAL ADDITIONAL ABOVE FINISHED FLOOR ISOLATED COPPER GROUND BUS ABOVE FINISHED GRADE ABOVE GROUND LEVEL INCH(ES) IN I. LB.(#) L.B. L.F. LAG BOLTS LINEAR FEET (FOOT) LONG(ITUDINAL) MASONRY MAXIMUM MACHINE BOLT MECHANICAL ALTERNATE
ABOVE SEA LEVEL
ANTENNA
APPROXIMATE(LY)
ARCHITECT(URAL) AMERICAN WIRE GAUGE BLOCK BLOCKING MANUFACTURER BEAM
BOUNDARY NAILING
BACK—UP CABINET
CABINET
BARE TINNED COPPER WIRE
BOTTOM OF FOOTING
CANTILLE VER(ED) MISCELLANEOUS NOT TO SCALE CAST IN PLACE PRECAST CONCRETE CEILING
CLEAR
COLUMN
CONCRETE
CONNECTION(OR)
CONSTRUCTION
CONTINUOUS PERSONAL COMMUNICATION SERVICES PLYWOOD POWER PROTECTION CABINET PRIMARY FLEXENT CABINET POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POWER (CABINET) PENNY (NAILS) d DBL. DEPT D.F. DIA. DIM. DWG. DWL. EA. RADIUS
REFERENCE
REINFORCEMENT(ING)
REQUIRED
RIGID GALVANIZED STEEL DOUGLAS FIR DIAMETER DIAGONAL DIMENSION DRAWING(S) SCHEDULE DOWEL(S) SIMILAR SPECIFICATION(S) LEVATION EL.
ELEC.
ELEV.
EMT.
ENG.
ENG.
EXP.
EXST.(E)
EXST.(F)
FAB.
F.F.
F.G.
F.O.C.
F.O.M.
F.O.W. STAINLESS STEEL STANDARD ELEVATOR
ELECTRICAL METALLIC TUBING
EDGE NAIL
ENGINEER STEEL STRUCTURAL TEMPORARY IEMPORARY
THICK(NESS)
TOE NAIL
TOP OF ANTENNA
TOP OF CURB
TOP OF FOUNDATION
TOP OF PLATE (PARAPET) XPANSION FABRICATION(OR) TOP OF STEEL TOP OF WALL FOUNDATION TYPICAL UNDER GROUND UNDERWRITERS LABORATORY
UNLESS NOTED OTHERWISE
VERIFY IN FIELD
WIDE(WIDTH)
WITH

WEATHERPROOF

WEIGHT CENTERLINE PLATE

#### DRAWING SPECIFICATIONS

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.

IS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT

3. THE DRAWINGS SHALL NOT BE SCALED. FIGURED DIMENSIONS HAVE PRECEDENCE OVER THE DRAWING SCALE. DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL CHECK THE ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF THE DRAWING DRAWING SHAPE ACTIVAL FIELD DIMENSIONS. DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS

4. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE PROJECT MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.

5. THE DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

6 REPRESENTATIONS OF THE TRUE NORTH OTHER THAN THOSE FOUND ON THE 6. REPRESENTATIONS OF THE TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY PRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.

7. THESE CONSTRUCTION DRAWING DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.

8. THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.

. THE PURPOSE OF THE 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.

10. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A

CHANGE ORDER.

11. GENERAL ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

## CONTRACTOR SPECIFICATIONS

1. PRIOR TO THE SUBMISSION OF BIDS, THE PARTICIPATING CONTRACTORS SHALL 1. PRIOR TO THE SUBMISSION OF BIDS, THE PARTICIPATING CONTRACTORS SHALL WIST THE JOB SITE AND FAMILIARIZE THENSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS, FIELD CONDITIONS, AND CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN, PRIOR TO SUBMISSION OF BIDS AND CONSTRUCTION. SHOULD ANY ERRORS, OMISSIONS, OR DISCREPANCIES BE FOUND, THE CENERAL CONTRACTOR SHALL INMEDIATELY MODITY THE POPLIET THAN AFFER AND THE APPOLITET FAVINGER IN IMMEDIATELY NOTIFY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER, 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/ENGINEER ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.

2. 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 PROJECT MANAGER AND THE ARCHITECT/ENGINEER, SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING

3. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER IF ANY OF THE DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROPED, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. THE 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.

4. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE

5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT 5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REQULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.

6. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES, REGULATIONS, AND ORDINANCES, AS WELL AS, STATE DEPARTMENT OF NDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA)

7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 16, SECTION 1613
OF THE CBC REGARDING EARTHQUAKE PIPING, LIGHT FIXTURES, CEILING GRID,
INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST BE IN
ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

8. THE 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:

NATIONAL ROOFING CONTRACTORS ASSOCIATION
O'HARE INTERNATIONAL CENTER
10255 WEST HIGGINS ROAD, SUITE 600
ROSEMONT, IL 60018

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

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

ADHESIVE MANUFACTURERS ASSOCIATION 401 NORTH MICHIGAN AVENUE, SUITE 2400 CHICAGO, IL 60611

9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

10. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE GENERAL CONTRACTOR WITH LOCAL ELECTRICAL COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

11. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND CTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK.

12. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL SOLELY BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

13. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, PROJECT MANAGER 13. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, PROJECT MAN/ AND THE CARRIER'S PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO PROPOSED AND EXISTING CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, EQUIPMENT, ETC., SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROJECT MANAGER, THE PROPERTY OWNER, OR THE OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

14. 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 WHITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY DELTA GROUPS ENGINEERING, INC. UNDER THIS CONTRACT.

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

16. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED /FLASHED AND MADE 10. PENELIAH 1003 OF ROOM MEMBRANES SHALL BE FAIRED, FLASHED AND METALS. THE CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR STEE-SPECIFIC CONDITIONS FROM THE ARCHITECT, FLORIGIZER, IF NECESSARY, BEFORE PROCEEDING.

17. THE CONTRACTOR SHALL CONTACT U.S.A. (UNDERGROUND SERVICE ALERT) BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK, OR CONSTRUCTION.

18. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES,

19. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS. 20 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE

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

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

22. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS 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.

23. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION, AND IN A
MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. IN
ADDITION, STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE
ASSOCIATED MANUFACTURER.

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

25. 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 THE PROJECT MANAGER.

26. 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 THE WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR MUST 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

27. THE CONTRACTOR SHALL PROVIDE A CLOSE-OUT PACKAGE TO THE PROJECT MANAGER, WHICH WILL INCLUDE:

BUILDING PERMITS/ELECTRICAL PERMITS

BUILDING PERMITS/ELECTRICAL FEARING
FINAL INSPECTION CARD
STAMPED BUILDING PERMIT PLANS
GROUNDING TEST
SWEEP TEST
CONCRETE TEST
SPECIAL INSPECTION REPORTS
SPECIAL INSPECTION REPORTS
WARRANTES, MANUAL, EQUIPMENT SPECIFICATIONS
SUBCONTRACTOR CONTACT LIST
PERLINERS AS PAIL ITS

REDLINED AS-BUILTS

CONSTRUCTION PROCESS PHOTOS

M. A WRITTEN REPORT ON ANTENNA SERIAL NUMBER FOR EACH SECTOR N. MANUFACTURER'S PERFORMANCE REPORT FOR EACH ANTENNA

**ENGINEERING REQUIREMENTS** 

1. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED

2. 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.

3. ALL PROPOSED OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS, AT WALL AND ROOF PENETRATIONS, SHALL BE CAULKED OR SEALED TO LIMIT INFILIRATION OF AR AND MOISTURES.

4. THE ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250

5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE DRAWINGS TO THE PROJECT MANAGER FOR APPROVAL. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE PROJECT MANAGER.

6. THE CONTRACTOR SHALL SUBMIT THREE COPIES OF EACH REQUEST FOR SUBSTITUTIONS. IN EACH REQUEST, IDENTIFY THE PRODUCT, FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS.

7. THE CONTRACTOR SHALL SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS, PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE PROJECT MANAGER, SUBMIT ACTUAL SAMPLES TO DELTA GROUPS ENGINEERING, INC. FOR APPROVAL, IN LIEU OF CUT SHEETS.

8. CHANGE ORDERS MAY BE INITIATED BY THE PROJECT MANAGER AND/OR THE CONTRACTOR INVOLVED. THE CONTRACTOR, UPON VERBAL REQUEST FROM THE PROJECT MANAGER, SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT IT TO THE PROJECT MANAGER WITHIN SEVENTY—TWO HOURS FOR APPROVAL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN THE FORM AND IN CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT OR WRITTEN CHANGE ORDER PROPOSALS. ANY CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE PROJECT MANAGER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR.

#### GENERAL REQUIREMENTS

1. 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 CONSTRUCTION AREA.

2. THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT, ALL INSURANCE AS REQUIRED AND LISTED. THE CONTRACTOR SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE, STATING ALL COVERAGE, TO THE CELLULAR CARRIER. THE CELLULAR CARRIER SHALL BE NAMED AS AN ADDITIONAL COMPANY INSURED ON ALL POLICIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED IN THE CONSTRUCTION DRAWNGS. ANY SUCH DISCREPANCY IN DIMENSIONS, WHICH MAY BE FOUND, SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.

4. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING WHICH SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.

5. 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 WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WAS ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FUTULL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONTRACTOR TO FUTURE GOVERNING THE WORK.

6. BEFORE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO MILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THE PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE CELLULAR CARRIER'S PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF ANY WORK.

7. THE CONTRACTOR SHALL SUBMIT A BAR TYPE PROGRESS CHART NOT MORE THAN 7. HE CONTRACTOR SHALL SUBMIT A BAR TYPE PROGRESS CHART NOT MORE HAM THEED DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE. IT SHALL INDICATE A TIME BAR FOR EACH MAJOR CATEGORY OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCE DATO COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE SITE.

8. THE CONTRACTOR SHALL PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE PROJECT MANAGER.

9. A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

10. NOTIFY THE PROJECT MANAGER IN WRITING NO LESS THAN FORTY-EIGHT HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

11. THE CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR A BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE CELLULAR CARRIER, NOR WILL WIRELESS SERVICE BE

12. DURING CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL SAFETY REQUIREMENTS IN THEIR AGREEMENT.

**ABBREVIATIONS** 

GROWTH (CABINET)

GAUGE GALVANIZE(D) GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GLOBAL POSITIONING SYSTEM

F.S. FT.(') FTG.

G.F.I. GLB.(GLU-LAM) GPS

**GENERAL NOTES** 

# **SPEEDWAY** PLACERVILLE DR

519 PLACERVILLE DR PLACERVILLE, CA 95667



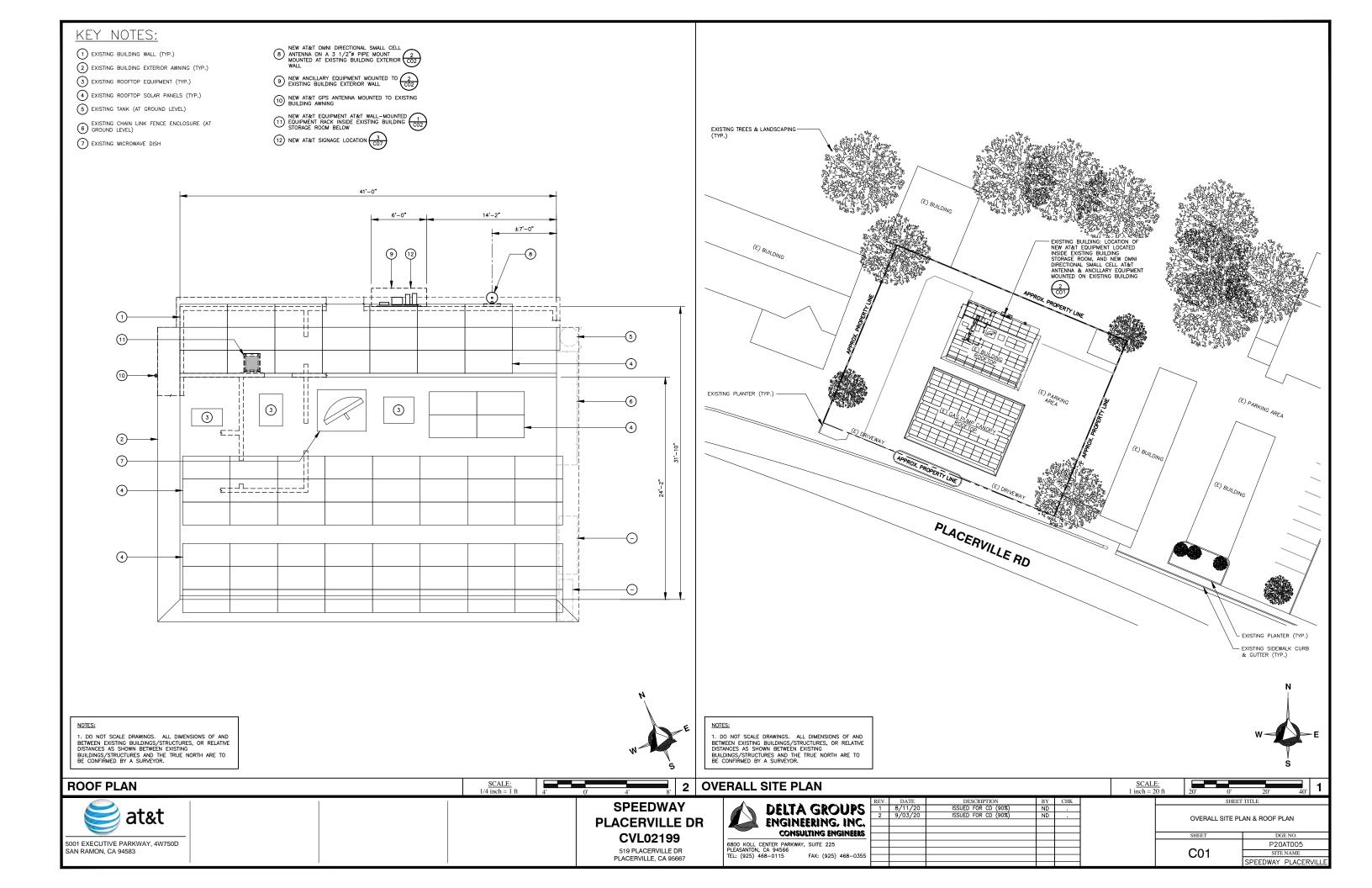
6800 KOLL CENTER PARKWAY, SUITE 225 PLEASANTON, CA 94566 TEL: (925) 468-0115 FAX: (925) 468-035

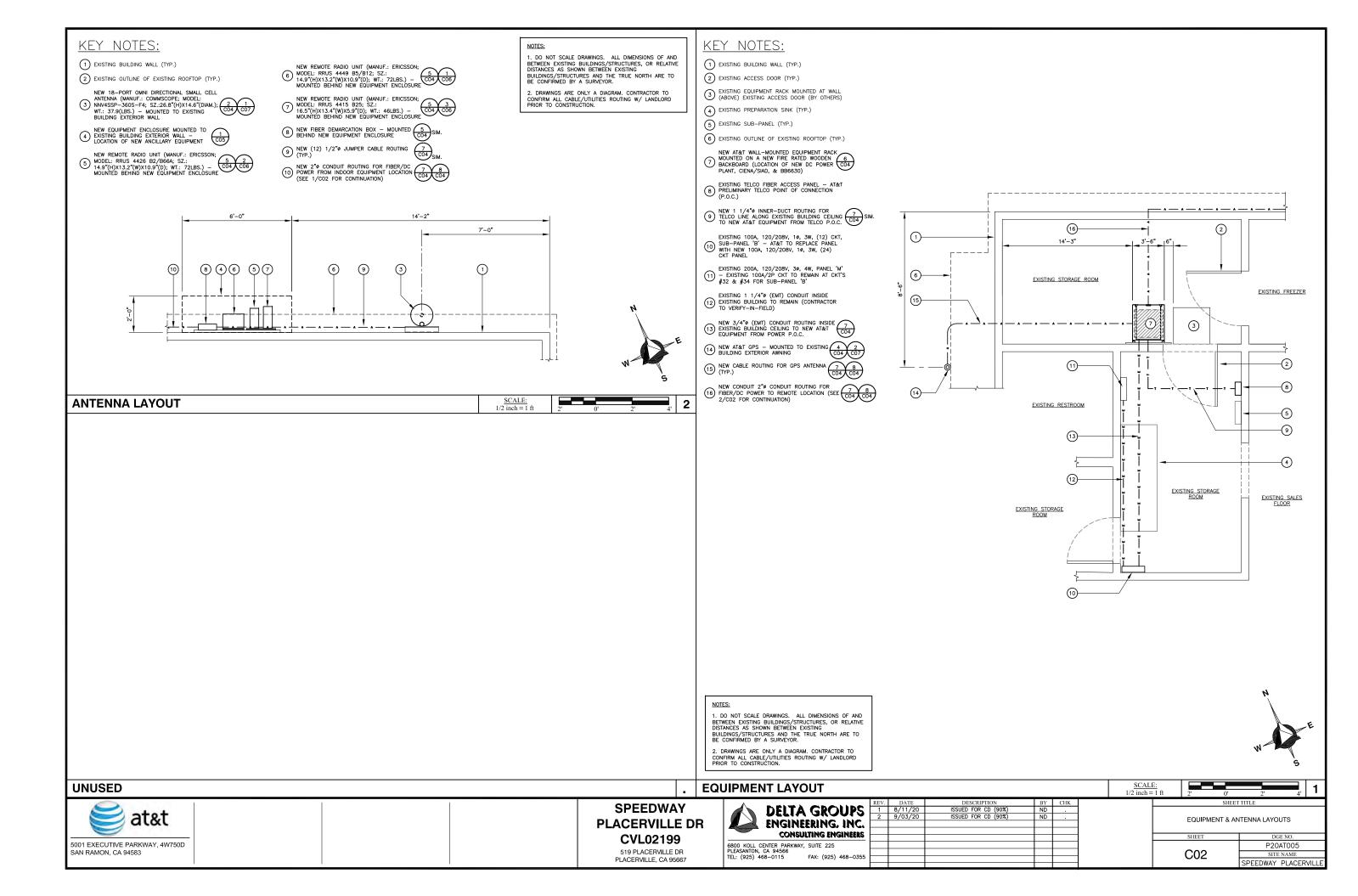
	REV.	DATE	DESCRIPTION	BY	CHK	
	1	8/11/20	ISSUED FOR CD (90%)	ND		
•	2	9/03/20	ISSUED FOR CD (90%)	ND		
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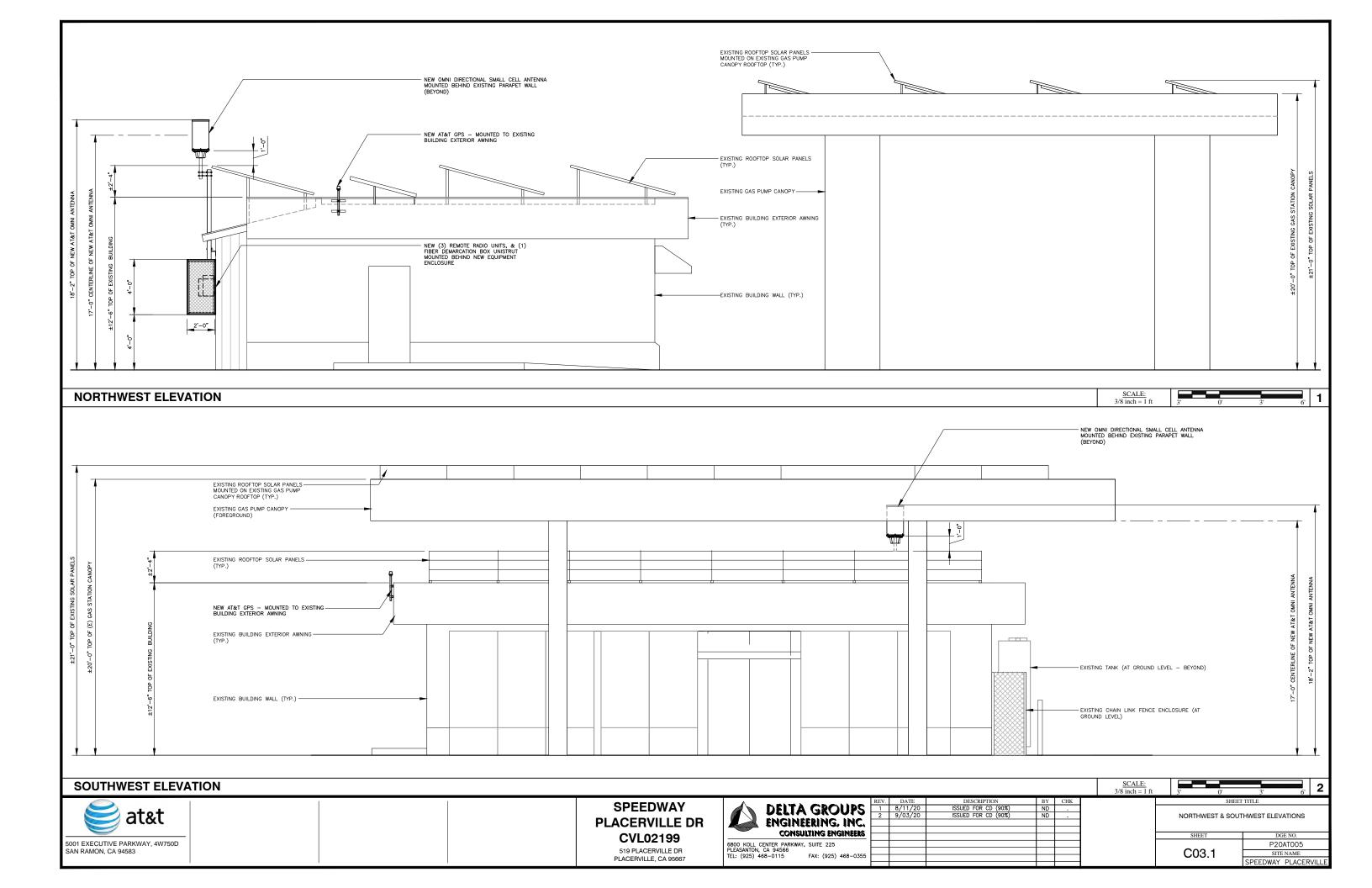
SHEET TITLE GENERAL NOTES, LEGEND, & ABBREVIATIONS P20AT005 T02 SITE NAMI SPEEDWAY PLACERVIL

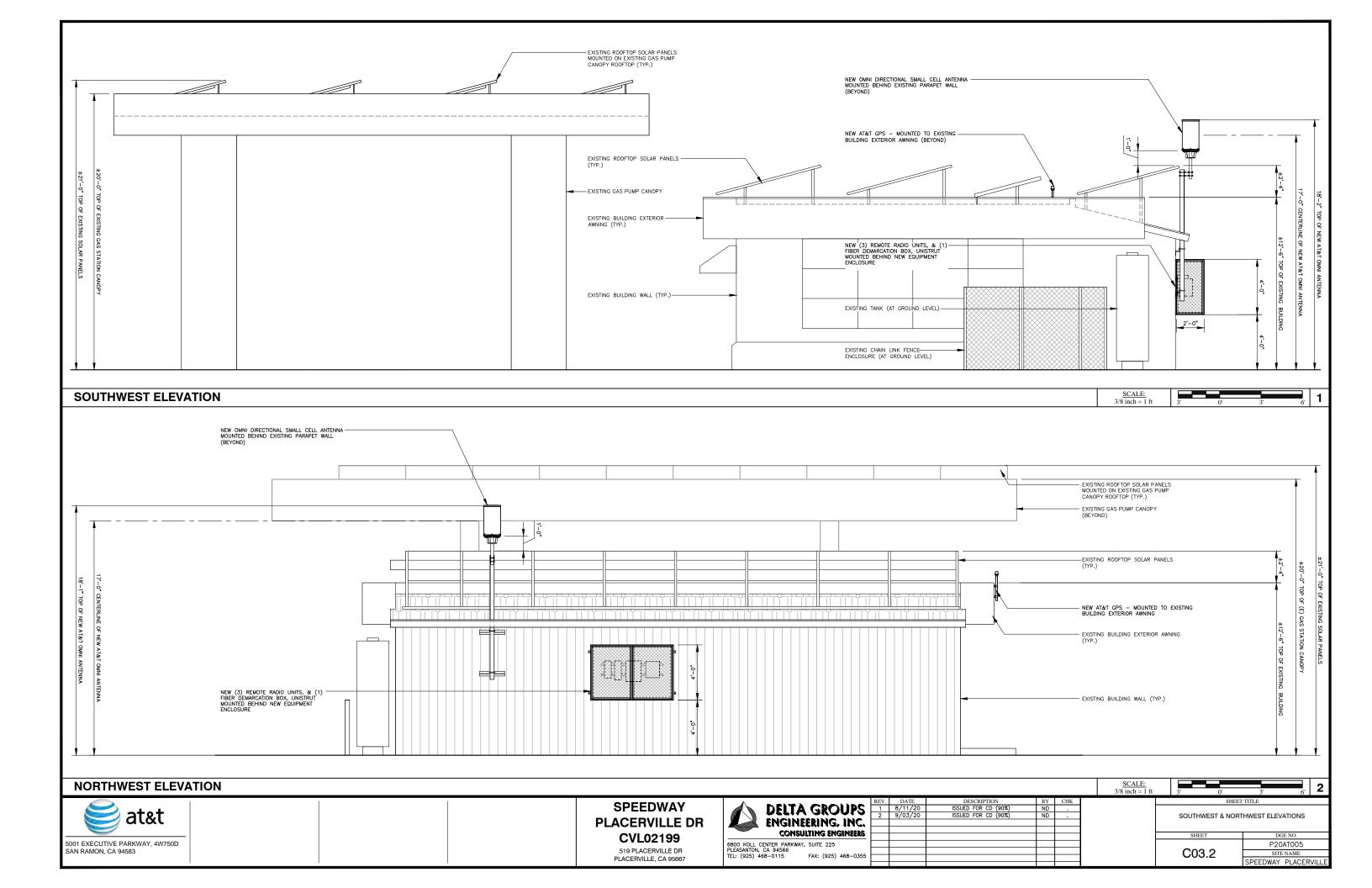
at&t SAN RAMON CA 94583

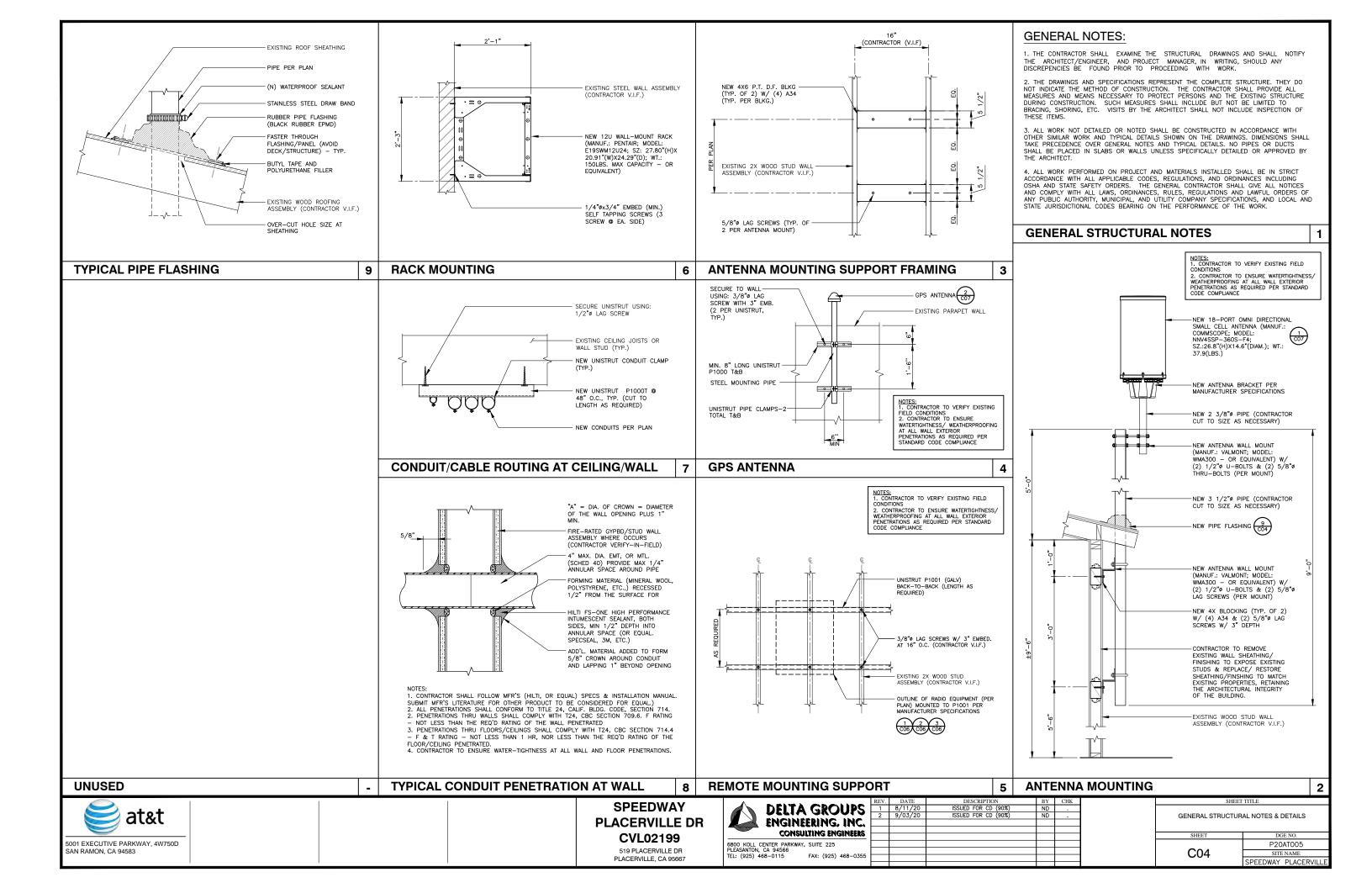
CVL02199

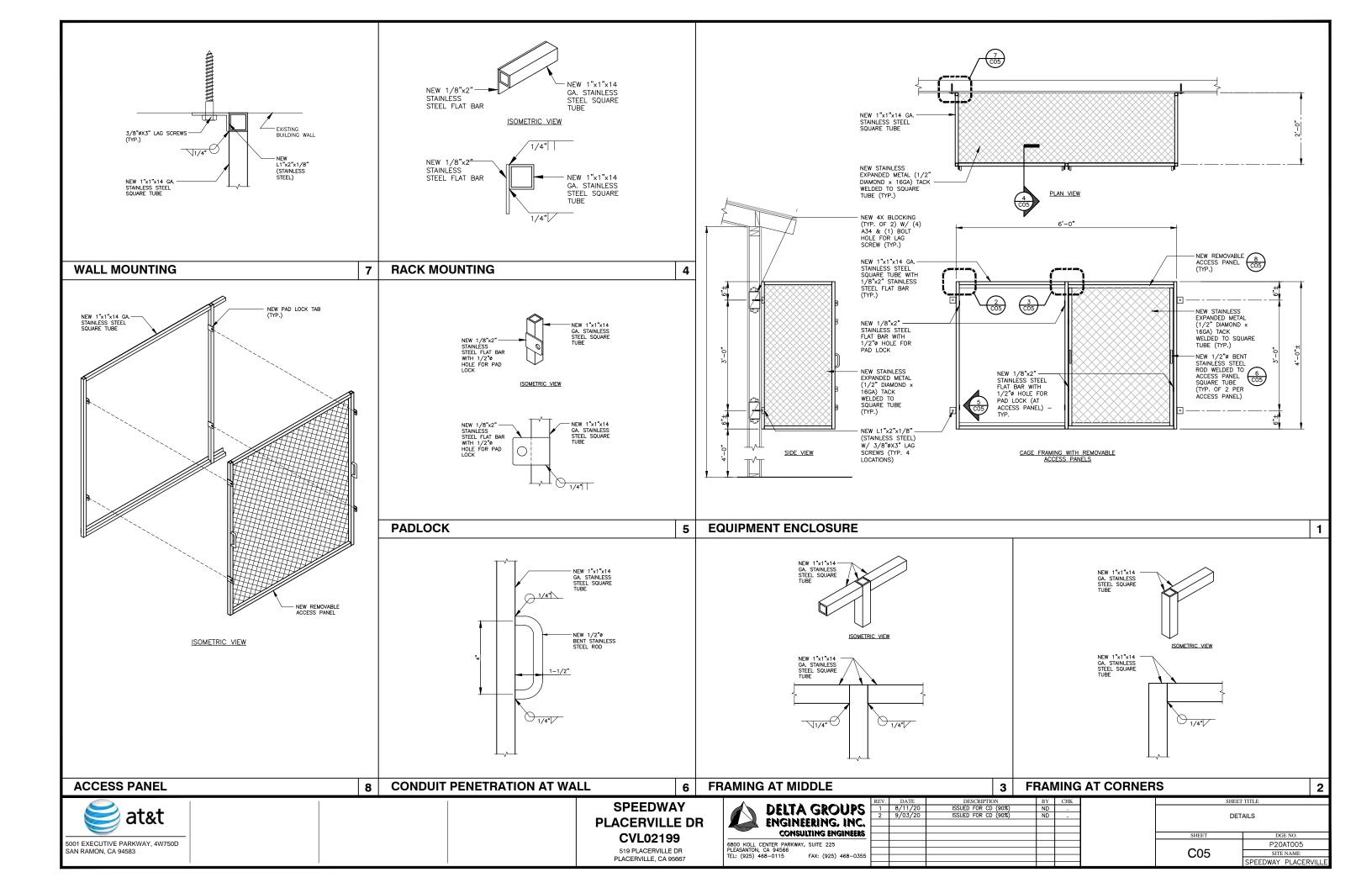


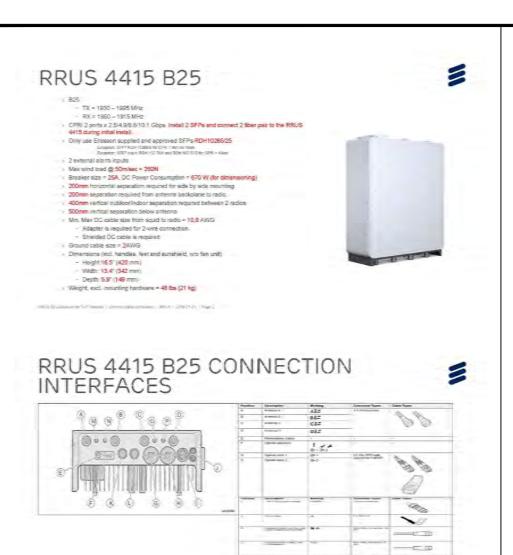








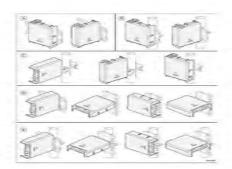






protective caps to be removed when DC. RF connected to radio.

CPRIT RET/AISG port, and ALD port caps have lanvards attached to the radio. DC and RF ports have



# RRUS 4426 B66

- TX = 2110 - 2180 MHz

CPRI 2 ports x 2 5 4 9 9 8 10.1 Glos. Install 1 SFP and connect 1 fiber pair to the RRUS 4426

during initial install.

Only use Bricsson supplied and approved SFPs ROH10065/25

2 externel alarm inputs

Max wind load @ 50misec = 260% Breaker size = 20A, DC Power Consumption = 670 W (for dimensioning)

200mm torizontal separation required for side by side mounting

200mm separation required from antenna backplane to radio

400mm vertical outdoorlindoor separation required between 2 radios.

500mm vertical separation below antenna Min. Max DC cable size from squid to radio = 10,6 AWG - Adapter is required for 2-wire connection

Shielded DC cable is required

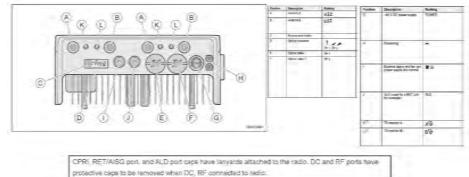
Ground cable size = 24 WG

Dimensions (incl. handles, feet and sunshield, w/o fan unit) - (Height: 14.96" (380 mm)

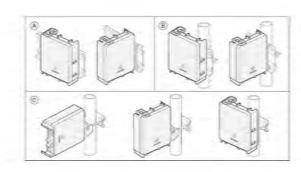
- Width: 13.19" (335 mm)

Weight, excl. mounting hardware = 48.4 bs (22 kg)

## RRUS 4426 B66 CONNECTION INTERFACES



# **RRUS 4426 MOUNTING OPTIONS**



# RRUS 4449 B5, B12

B5, 812
 B5 TX = 865 - 864 MHz. B12 TX = 729 - 745 MHz.
 B5 TX = 824 - 849 MHz. B12 TX = 686 - 716 MHz.

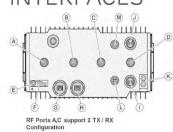
cool insquency based are composed in transmisseous out the same or connectors. CPRI 2 protex 5.54 (4.9 8.01) CBps, health 2 FPFs and connect 2 floor part to the RRUS 4449 during infal install 2"CPF) are reserved for 5C NR deplayment takes. De not connect SFF7 to DUL20. Only use Encourage supplied and aground 4 SFF1 in RUH10265 5C. Jacks 1247 BDI 1800386078 length 1 8 m - 190n. India 1247 BDI 1800386078 length 1 8 m - 190n.

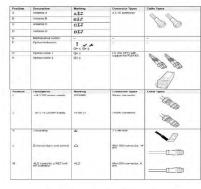
Max wind load (8 50m/sec = 250 N

Braiker size: 20054, DC Prover Consumption = 1440 Wilfur dimensioning; Both DC power-connections must be commodat and operational for the radio to operate. Each prover fixed must 220%, A single DC trush cable capable of supporting 1440W-with a 464MP braislet can connec a #104W6 V DC split jumper cable connected from this surge suppressor to the 4449 DC power

Width 13.19" (335 mm) Depth 9.44" (240 mm)

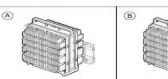
RRUS 4449 B5,12 CONNECTION INTERFACES





CPRI, RET/AISG port, and ALD port caps have lanyards attached to the radio. DC and RF ports have protective caps to be removed when DC, RF connected to radio.

# RRUS 4449 MOUNTING OPTIONS







Installation Method	Description
A	Wall installation
В	Pole installation
С	Pole installation with single pole

## **RRUS 4415 SPECIFICATION SHEETS**

**RRUS 4426 SPECIFICATION SHEETS** 

# **SPEEDWAY PLACERVILLE DR**

CVL02199 519 PLACERVILLE DR PLACERVILLE, CA 95667

	DELTA GROUPS ENGINEERING, INC. CONSULTING ENGINEERS

6800 KOLL CENTER PARKWAY, SUITE 225 PLEASANTON, CA 94566 TEL: (925) 468-0115 FAX: (925) FAX: (925) 468-0355

	R	RUS 4449 SPECIFI	CA <sup>-</sup>	TION	SHEETS
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DATE	DESCRIPTION	BY	CHK
8/11/2	ISSUED FOR CD (90%)	ND	
9/03/2	ISSUED FOR CD (90%)	ND	

SHEET TITLE ANTENNA EQUIPMENT SPECIFICATIONS P20AT005 C06 SITE NAME SPEEDWAY PLACERVIL



SAN RAMON CA 94583





# On this tower:

Radio frequency (RF) fields near some antennas may exceed the FCC Occupational Exposure Limits.

Contact AT&T at 800-638-2822, option 9 and 3, and follow their instructions prior to performing maintenance or repairs beyond this point.

Personnel climbing this tower should be trained for working in RF environments and use a personal RF monitor if working near active antennas.

Caution Sign #CAUTT-AL-057 This is AT&T site

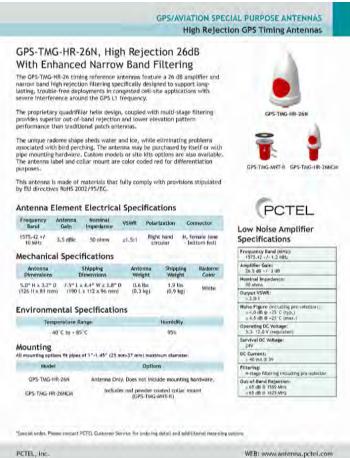
THE CUSTODIAN OF THIS STATION'S LICENSE IS:

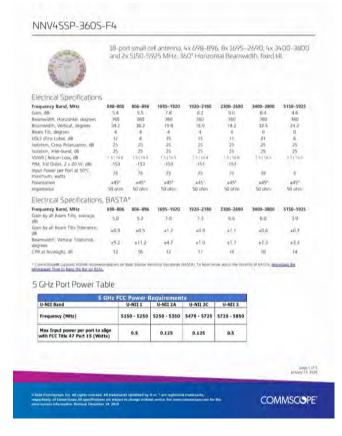
## AT&T

ATTENTION TO: FCC GROUP 208 S. AKARD STREET, RM 1016 DALLAS, TX 75202

855-699-7073 FCCMW@att.com









**SIGNAGE GPS ANTENNA SPECIFICATION SHEET** 



## **SPEEDWAY PLACERVILLE DR** CVL02199

519 PLACERVILLE DR PLACERVILLE, CA 95667



6800 KOLL CENTER PARKWAY, SUITE 225 PLEASANTON, CA 94566 TEL: (925) 468-0115 FAX: (925)

	REV.	DATE	DESCRIPTION	BY	CHK	
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1 9	2	9/03/20	ISSUED FOR CD (90%)	ND		
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**ANTENNA SPECIFICATION SHEETS** 

ANTENNA FOLIPMENT SPECIFICATIONS & SIGNAGE P20AT005 C07 SITE NAMI SPEEDWAY PLACERVIL

1. ALL WORK AND MATERIAL SHALL BE IN COMPLETE COMPLIANCE WITH THE LATEST EDITION OF THE N.E.C. AND ALL REGULATIONS, LAWS, SAFETY ORDERS, ORDINANCES OR CODES. IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

2. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS AND WIREWAYS SHALL BE IN ACCORDANCE WITH THE UNIFORM BUILDING CODE, CHAPTER 23 AND "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS," PUBLISHED BY SMACNA AND PPIC, OR THE SUPERSTRUIT—SEISMIC RESTRAINTS SYSTEM, OR THE KIN-LINE SEISMIC RESTRAINTS SYSTEM.

3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (IL.) AND BEAR THEIR LABEL, OR LISTED AND CERTIFED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE (IL.) DOES NOT HAVE USTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURE ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES AND REGULATIONS:

AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
AMERICAN STANDARD ASSOCIATION (ASA)
NATIONAL FIRE PROTECTION AGENCY (NFPA)
AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
NATIONAL ELECTRICAL CODE (NEC)
INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
ALL LOCAL CODES HAVING JURISDICTION

4. THE CONTRACTOR SHALL VISIT THE SITE, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS, AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AS WELL AS THE ELECTRICAL AND GROUNDING REQUIREMENTS OF THIS PROJECT. BY SUBMITTING A BID, HE ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.

5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDEDNA, DRAWINGS AND SPECIFICATIONS AS WELL AS THE LATEST EDITION OF ANY DESION SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM THE RESPONSIBILITY OF DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

6. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER IN WRITING PRIOR TO SUBMITTING A BID. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL SUBJECT TO THE INTERPRETATION OF THE PROJECT MANAGER AT NO ADDITIONAL COST.

7. THE CONTRACTOR SHALL OBTAIN AND KEEP UP—TO—DATE A COMPLETE RECORD SET OF DRAWINGS. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE PROJECT MANAGER, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON BY THE CONTRACTOR WITH RED INK IN A NEAT. LEGIBLE, UNDFRSTANDABLE AND PROFESSIONAL MANNER.

8. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE PROJECT MANAGER AND THE PROPERTY OWNER 14 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE PROJECT MANAGER AND THE BUILDING OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.

9. SHOP DRAWINGS SHALL BE SUBMITTED FOR ITEMS INDICATED ON PLANS. SHOP DRAWINGS SHALL INCLUDE ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS AND MANUFACTURES'S BROCHINES.

10. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND THE DRAWINGS HAVE BEEN FULLY COMPLETED, THE PROJECT MANAGER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF THOSE REPRESENTATIVES. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE PROJECT MANAGER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM FACIN PEPPERSENTATIVE

11. THE CONTRACTOR SHALL FURNISH ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

12. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPELY POWER AND MAKE CONNECTION TO EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. REVIEW THE DRAWINGS OF OTHER TRADES AND LOCATION OF EQUIPMENT.

13. EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS, SHALL BE DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORNIG, SAWCUTTING, PAICHING, AND REFINISHING OF EMISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR, OR CEILING.

14. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.

15. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS:

LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS AND IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.

PROVIDE A SEPARATE INSULATED GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.

16. ROUTE EXPOSED AND CONCEALED CONDUIT PARALLEL AND PERPENDICULAR TO WALL AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT ADDE ADJAC.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTING AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH ALL PROPERTY OWNERS, UTILITIES, AND APPROPRIATE "DIG ALERT" UNDERGROUND MARKING AGENCIES AND COMPANIES. THE CONTRACTOR SHALL ALWAYS USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL ALWAYS USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED DURING THE COURSE OF HIS WORK.

18. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS ON SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER.

19. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT WEATHER PROOF PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OF PER THE LATEST EDITION OF THE DESIGN SPECIFICATIONS, WHICHEVER IS MOST RESTRICTIVE. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

20. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

21. IDENTIFICATION NAME PLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INICH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCH BOARDS OR PANEL BOARDS, DISCONNECTING SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PEPMANENT MARKER

22. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE PLANS AND DETAILS, PRIOR TO INSTALLATION.

23. DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.

24. RIGID CALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT THREADED TYPE. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. DIRECT BURIED PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE AND SHALL BE CONCRETE ENCASED UNLESS NOTED OTHERWISE. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS. PROVIDE CONDUIT SUPPORTS NOT TO EXCEED 8"0". PROVIDE 3—PC CONNECTORS FOR SECONDARY GROWTH PATH OF SURFACE MOUNTED ENT.

25. RIGID STEEL CONDUIT FITTINGS INCLUDING COUPLINGS, LOCKOUTS, NIPPLES, ETC. SHALL BE THREADED AND THOROUGHLY GALVANIZED EXCEPT WHERE AN ADAPTER IS NEEDED TO CONNECT TO PVC. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAINTIGHT THREADLESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR INDENTED TYPES ARE NOT ACCEPTABLE. SET SCREW TYPE IS NOT ACCEPTABLE. SET SCREW TYPE IS NOT ACCEPTABLE.

26. ALL TELCO CONDUIT INSTALLATIONS AND OTHER EMPTY CONDUIT RUNS AND STUBS SHALL INCLUDE A YELLOW 3/8" POLYPROPYLENE PULL STRING.

27. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, ALL WIRE CONNECTORS SHALL BE CRIMP COMPRESSION TYPE BY "THOMAS AND BETT" OR APPROVED EQUIVALENT, INSTALLED AND INSULATED PER THE MANUFACTURER'S RECOMMENDATIONS. ALL WIRE ENDS SHALL BE MARKED FOR EASY IDENTIFICATION AND TRACING.

28. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE—PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS, FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETS, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.

29. ALL OUTDOOR ELECTRICAL DEVICES OR EQUIPMENT SHALL BE OF WEATHERPROOF TYPE.

30. ALL EQUIPMENT, MONOPOLE, FRAME, CABLE TRAY AND ANTENNA GROUND WIRE CONNECTIONS TO GROUND BUSSES SHALL BE MADE WITH CRIMP TYPE COMPRESSION CONNECTIONS TO CONNECTORS (MINIMUM 2 HOLE LUGS WITH FULL BOLTING). BUSS SHALL BE PRE-DRILLED TO ACCOMMODATE ALL CONNECTORS.

31. ALL GROUNDING SHALL BE PER N.E.C. SECTION 250 AND 810 AND THE GROUNDING REQUIREMENTS OF THESE DRAWNGS.

32. ALL GROUND WIRE CONNECTIONS BETWEEN GROUND BUSSES AND OTHER GROUND BUSSES AND GROUND RODS SHALL BE CADWELDED.

33. ALL METALLIC GROUND WIRE CONDUIT SHALL BE GROUNDED TO THE GROUND WIRE USING SET SCREW CONNECTIONS AT CONDUIT END CAPS AND CRIMP CONNECTIONS AT WIRE.

34. COAT ALL BOLTED LUG & BUSS GROUND CONTACT SURFACES WITH KIPR-SHIELD, NO-OX, OR EQUAL PRIOR TO ATTACHMENT.

35. MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING A.I.C.

36. ALL EQUIPMENT SHALL BE U.L. LISTED.

37. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING FROM UTILITY COMPANY.

38. ALL CORING CLEARANCES SHALL BE FIELD VERIFIED AND ALL CONDUIT ROUTING SHALL BE COORDINATED WITH PROPERTY OWNERS REPRESENTATIVE.

39. ALL CONNECTIONS TO EXISTING MAIN SWITCHGEAR INCLUDING "BUS-TAPS" AND/OR "HOT-TAPS" REQUIRE CERTIFICATION AND APPROVAL. FABRICATION AND CERTIFICATION SHALL BE FURNISHED BY A CONTRACTOR APPROVED BY THE APPLICABLE UTIL

40. CONTRACTOR SHALL COORDINATE WORK WITH UTILITY COMPANIES FOR FINAL AND EXACT WORK AND MATERIAL REQUIREMENTS, CONSTRUCT TO UTILITY COMPANIES ENGINEERING PLANS AND SPECIFICATIONS ONLY.

41. ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWNGS, ETC. SHALL BE TURNED OVER TO THE PROJECT MANAGER AT THE COMPLETION OF WORK.

42. SWITCHES AND RECEPTACLES AS SPECIFIED ON FLOOR PLANS.

1. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE POINT OF CONNECTION, CONDUIT ROUTE, INSTALLATION DETAILS AND SPECIFIC PROJECT PARAMETERS WITH THE LOCAL TELEPHONE COMPANY SINGLE POINT OF CONTACT (SPOC) PRIOR TO BEGINNING ANY WORK IN THE FIELD.

2. THE PROJECT ADDRESS AND ANY SPECIFIC UNIT NUMBER MUST BE PROVIDED TO THE LOCAL TELEPHONE COMPANY SPOC MINIMUM 1 WEEK PRIOR TO FINAL INSPECTION TO AVOID DELAY IN INSTALLATION OF SERVICE.

3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND FACILITIES AS SHOWN AND DETAILED ON THE PLANS AS REQUIRED FOR TI SERVICE AND A SINGLE POTS LINE TO THE BTS FACILITY.

4. THE TELEPHONE TERMINAL BACKBOARD SHALL BE 30"x8'-0"x5/8" THICK FIRE RATED PLYWOOD SANDED AND PAINTED WITH FIRE RATED PAINT. MOUNT BACKBOARD BOTTOM AT 6" A.F.F. PROVIDE MINIMUM 12" CLEARANCE FROM POWER ON THE SAME WALL AND 42" MINIMUM CLEARANCE FROM ADJOINING OR OPPOSITE WALLS. VERIFY WIDTH.

5. CONDUIT SPECIFICATIONS SHALL BE AS FOLLOWS:

a. GENERAL: ALL TELEPHONE SERVICE CONDUIT SHALL RUN FROM POLE, VAULT, PULL-BOX, MANHOLE OR OTHER POINT OF CONNECTION ESTABLISHED BY THE LOCAL TELEPHONE COMPANY SPOC AND SHALL RUN CONTINUOUS TO AN EDGE OF THE TELEPHONE TERMINAL BACKBOARD.

b. Underground conduit and bens shall be minimum 4" diameter schedule 40 pvc. Trench depth shall provide for minimum 24" cover over conduit. Conduit run shall be no more than 200 feet in length or have no more than (2) 90" bends (or equivalent) between pull boxes.

c. ABOVE GROUND CONDUIT AND CONDUIT INSIDE BUILDINGS SHALL BE EMT WITH FITTINGS AS NOTED IN ELECTRICAL NOTES. PROVIDE A UL APPROVED 18" HIGH x 10" DEEP WEATHER RESISTANT NEMA 3R RATED PULL BOX ON ALL ABOVE GRADE CONDUIT RUNS AT INTERVALS NOT TO EXCEED 100 FEET OR (2) 90" BENDS (OR EQUIVALENT).

d. OVERHEAD EXTERIOR FEEDS SHALL BE 4" DIAMETER RIGID GALVANIZED CONDUIT WITH A WEATHERHEAD OF A TYPE AND AT A HEIGHT APPROVED BY LOCAL TELEPHONE COMPANY SPOC (MINIMUM 20 FEET ABOVE FINISHED GRADF).

6. A 1-1/4" DIAMETER ORANGE INTER-DUCT SHALL BE PROVIDED IN ALL TELEPHONE SERVICE CONDUIT.

7. A MINIMUM 3/8" YELLOW POLYPROPYLENE PULL ROPE SHALL BE INCLUDED IN EVERY INTER-DUCT WITH A SEPARATE 3/8" YELLOW POLYPROPYLENE PULL ROPE INSIDE THE CONDUIT, NOT INSIDE THE INTER-DUCT.

8. THE ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABILITY OR SHALL PROVIDE A NEW 120V POWER SOURCE MINIMUM 12" FROM TELEPHONE TERMINAL BACKBOARD.

9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A #6 SOLID INSULATED COPPER GROUND WIRE FROM A GROUND SOURCE APPROVED BY THE LOCAL TELEPHONE COMPANY SPOC MINIMUM STANDARD SOURCE SHALL BE A 5/8" DIAMETER X 8"-O" LONG COPPER CLAD STEEL GROUND ROD.

10. ALL WIRING SHALL BE DONE BY THE LOCAL TELEPHONE COMPANY UNLESS OTHERWISE NOTED.

11. ALL TELEPHONE CONDUIT SHALL BE LABELED AT DESIGNATED TELEPHONE COMPANY.

#### TELEPHONE SPECIFICATIONS

1. UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.

2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

3. UTILITY CONTACTS FOR THIS PROJECT SHALL BE AS FOLLOWS:

 POWER:
 TELEPHONE:

 TBD
 TBD

 ...
 ...

 CONTACT NAME
 CONTACT NAME

3 UTILITIES NOTES

CONTACT NAME
CONTACT NUMBER

CONTACT NUMBER

#### **ELECTRICAL SPECIFICATIONS**



5001 EXECUTIVE PARKWAY, 4W750D SAN RAMON, CA 94583

# SPEEDWAY PLACERVILLE DR CVL02199

519 PLACERVILLE DR PLACERVILLE, CA 95667



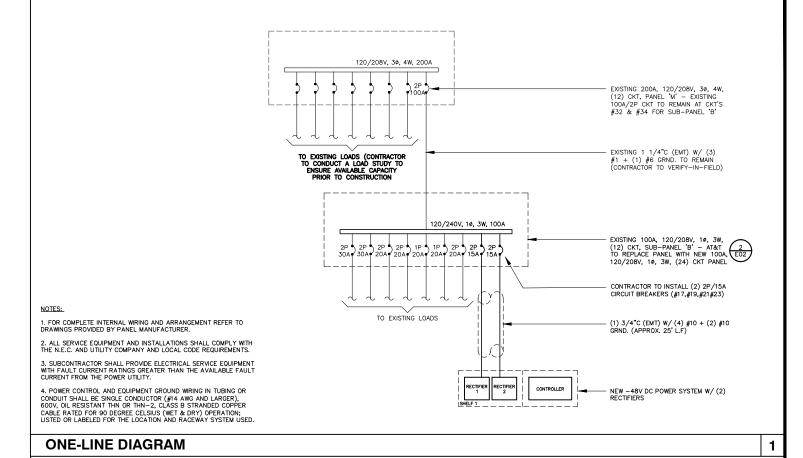
6800 KOLL CENTER PARKWAY, SUITE 225 PLEASANTON, CA 94566 TEL: (925) 468-0115 FAX: (925) 468-0355

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	REV.	DATE	DESCRIPTION	BY	CHK
	1	8/11/20	ISSUED FOR CD (90%)	ND	
•	2	9/03/20	ISSUED FOR CD (90%)	ND	
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_					

SHEET TITLE

ELECTRICAL & TELEPHONE SPECIFICATIONS & UTILITIES NOTES

SHEET DGE NO.
P20AT005
SITE NAME
SPEEDWAY PLACERVIL



A.I.C.						New Re	olace	nent	Panel B'						MAIN	MLO
RACK MOUNT						120/208	V, 1-P	HASE	3-WIRE							
DECCRIPTION	WAT	TAGE	,,,,	DEC		СВ	cnc	cnc.	СВ		DEC	(TC	WAT	TAGE	DESCRIPTION	
DESCRIPTION	Α	В	LTS	REC	MSC	P/A	CRC	CRC	P/A	MSC	REC	LTS	Α	В		
(E) BREW 1						2P / 30A	1	2	2P / 20A						(E) SANDWICH CASE	
(L) BREW I						2F / 3UA	3	4	ZF / ZUA						(L) SAND	VICITCASE
(E) BREW 2			]			2P / 30A	5	6	1P / 20A						(E) MIRO	DWAVE 2
(L) DILLAN Z						2F / 30A	7	8	1P / 20A						(E) A	ATM
UNKNOWN						1P / 20A	9	10	2P / 20A						/ELICE	MVKED
OINKINOVVIN						1r / 20A	11	12	2F / 2UA						(E) ICEMAKER	
SPACE							13	14							SPA	ACE
SPACE							15	16							SPA	ACE
(N) AT&T RECTIFIER 1		600				2P / 15A	17	18							SPA	ACE
(N) ATOT NECTIFIER I	600					2F / 13A	19	20							SPA	ACE
(N) AT&T RECTIFIER 2		600				2P / 15A	21	22							SPA	ACE
(N) ATOT NECTITEN 2	600					2F / 13A	23	24							SPA	ACE
PHASE SUB-TOTALS	1200	1200	]										0	0	PHASE SU	B-TOTALS
PHASE TOTALS (WATTS)	Α	1200	]										5.77	Α	PHASE TOTA	ΛΙς / ΛΝ/Dς\
B		1200	]										5.77	В	FIIAGE TOTA	ALD (AIVIF 3)
PANEL TOTAL (WA	TTS)	2400	]							11.54	54 ADDITIONAL PANEL LOAD(AMPS)					
PANEL TOTAL W/LCL (	PANEL TOTAL W/ LCL (WATTS) 3000												14.42	ADDITION	AL LOAD W/	LCL (AMPS)

1. ALL CIRCUIT BREAKERS AND/OR FUSES SHALL BE FULLY RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT INDICATED.

UNUSED

SPI PLACI

5001 EXECUTIVE PARKWAY, 4W750D
SAN RAMON, CA 94583

## SPEEDWAY PLACERVILLE DR CVL02199

519 PLACERVILLE DR PLACERVILLE, CA 95667

	DELTA GROUPS ENGINEERING, INC CONSULTING ENGINEER
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PANEL SCHEDULE (SUB-PANEL B)

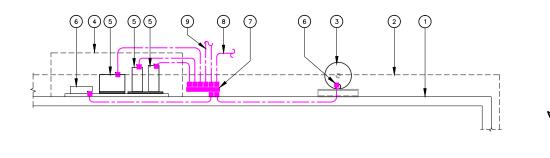
	CONSU	LTING	ENC	SINE
6800 KOLL O	CENTER PARKWAY, CA 94566 168-0115	SUITE	225	
TEL: (925) 4	68-0115	FAX: (	925)	468-

	REV.	DATE	DESCRIPTION	BY	CHK	
PS	1	8/11/20	ISSUED FOR CD (90%)	ND		
	2	9/03/20	ISSUED FOR CD (90%)	ND		
NC.						
VEERS						
TEEKO						
8-0355						

SHEET TITLE		
ONE-LINE DIAGRAM, (SUB-P)		
SHEET	DGE NO.	
	P20AT005	
l E02	SITE NAME	
	SPEEDWAY PLACERVILLE	

## **KEY NOTES:**

- 1) EXISTING BUILDING WALL (TYP.)
- 2 OUTLINE OF EXISTING ROOFTOP
- 3 NEW OMNI DIRECTIONAL SMALL CELL ANTENNA MOUNTED TO EXISTING BUILDING EXTERIOR WALL
- NEW EQUIPMENT ENCLOSURE MOUNTED TO EXISTING BUILDING EXTERIOR WALL LOCATION OF NEW ANCILLARY EQUIPMENT
- 5 NEW REMOTE RADIO UNIT TYP. OF 3)
  MOUNTED BEHIND NEW EQUIPMENT ENCLOSURE
- 6 NEW FIBER DEMARCATION BOX MOUNTED BEHIND NEW EQUIPMENT ENCLOSURE
- 6 NEW MECHANICAL CONNECTION (TYP.)
- 7) NEW ANTENNA EQUIPMENT BUS BAR (LOCATED 1 E04)
- (8) NEW #2 GREEN STRANDED INSULATED ANTENNA GROUND WIRE TIE TO ANTENNA GROUND BUS BAR (TYP.)
- 9 NEW #2 GREEN STRANDED INSULATED GROUNDING (TYP.)



**ANTENNA LAYOUT** 

 $\frac{\text{SCALE:}}{1/2 \text{ inch} = 1} \text{ for }$ 

- 1. PROVIDE A COMPLETE GROUNDING SYSTEM PER NATIONAL ELECTRICAL CODE ARTICLE 250 AND EQUIPMENT MANUFACTURER'S REQUIREMENTS. USE THESE DRAWINGS AS MINIMUM GUIDELINE TO IMPLEMENT CARRIER AND EQUIPMENT CABINET MANUFACTURER SPECIFICATIONS.
- 2. ALL DETAILS ARE SHOWN IN GENERAL TERMS, ACTUAL GROUNDING INSTALLATION AND MOUNTING MAY VARY DUE TO SITE SPECIFIC
- 3. ALL GROUNDING CONDUCTORS SHALL BE COPPER.
- 4. ALL GROUNDING WIRE BELOW GRADE SHALL BE BARE #2 TINNED SOLID COPPER WIRE BURIED  $\Phi$  18" MINIMUM. ALL CONDUIT BELOW GRADE SHALL BE PVC SCHEDULE 80.
- 5. ALL GROUND WIRE ABOVE GRADE IS STRANDED COPPER (UNO). SIZE AS SHOWN ON PLANS.
- 6. USE MINIMUM #2/0 AWG COPPER CONDUCTORS FOR COMMUNICATION SERVICE GROUNDING CONDUCTORS.
- ALL GROUND CONNECTIONS SHALL BE LISTED FOR THE PURPOSED
- 8. ALL LUGS SHALL BE 2—HOLE LONG—BARREL SOLID COPPER BURNDY THOMAS & BETTS OR EQUAL.
- 9. MINIMUM BEND RADIUS FOR GROUNDING CONDUCTORS #2 AND LARGER SHALL BE 12", 8" MINIMUM RADIUS FOR SMALL CONDUCTORS.
- 10. ALL CONNECTIONS AT BELOW GRADE APPLICATIONS SHALL BE

- 11. ALL IRREVERSIBLE COMPRESSION TYPE CONNECTORS SHALL BE INSTALLED USING A 12 TON HYDRAULIC PRESS MINIMUM.
- 12. INSTALL GROUNDING AND BONDING CONDUCTORS WITH SUFFICIENT SLACK TO AVOID BREAKING DUE TO SETTLEMENT AND MOVEMENTS OF CONDUCTORS AT ATTACHED POINTS.
- 13. COAT ALL BOLTED LUG & BUS GROUND CONTACT SURFACES WITH KOPR-SHEILD, NO-OX, OR PRIOR TO ATTACHMENT.
- 14. GROUNDING RODS SHALL BE 5/8" DIAMETER  $\times 10'-0"$  LONG COPPER CLAD STEEL.
- 15. WHERE MULTIPLE GROUND RODS ARE INSTALLED, THEY SHALL NOT BE LESS THAN 10 FEET NOR MORE THAN 16 FEET APART UNLESS APPROVED BY THE CARRIER REPRESENTATIVE, OR CONSTRUCTION MANAGER.
- 16. DRIVEN GROUND RODS SHALL BE USED EXCEPT WHERE SPECIFIC SITE CONDITIONS PRESENT DIFFICULTY, IN WHICH CASE A ELECTROLYTIC (CHEMICAL) ROD SYSTEMS MAY BE USED, SUCH AS MANUFACTURED BY
- 17. CONTRACTOR SHALL TEST GROUND RESISTANCE AT "MGB" TO VERIFY THAT RESISTANCE SHALL NOT EXCEED 5 OHMS AND SHALL SUBMIT AN INDEPENDENT TESTING REPORT TO ATTEWS REPRESENTATIVE, OR CONSTRUCTION MANAGER INDICATING RESISTANCE VALUE OBTAINED. CONTRACTOR SHALL PROVIDE GROUNDING SYSTEM AS PART OF ITS BID, AS REQUIRED TO ATTAIN A 5 OHM VALUE OR LESS.
- 18. TESTING: PERFORM FULL FALL OF POTENTIAL TEST PER EEE STANDARD NO. 81: SECTION 9.04 ON THE MAIN GROUNDING REQUIREMENTS.

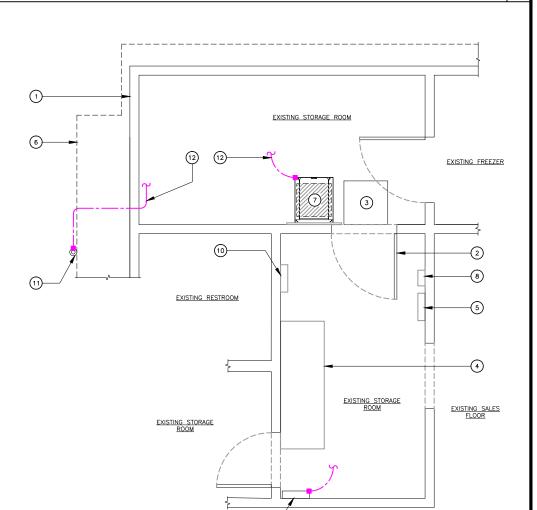
19. FINAL GROUND TEST SHALL BE MADE IN PRESENCE OF THE CARRIER REPRESENTATIVE, OR CONSTRUCTION MANAGER.

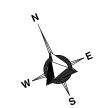
## **GENERAL GROUNDING NOTES**

## **KEY NOTES:**

- 1) EXISTING BUILDING WALL (TYP.)
- 2 EXISTING ACCESS DOOR (TYP.)
- 3 EXISTING EQUIPMENT RACK MOUNTED AT WALL (ABOVE) EXISTING ACCESS DOOR (BY OTHERS)
- (4) EXISTING PREPARATION SINK (TYP.)
- (5) EXISTING SUB-PANEL (TYP.)
- 6 EXISTING OUTLINE OF EXISTING ROOFTOP (TYP.)
- NEW AT&T WALL-MOUNTED EQUIPMENT RACK MOUNTED ON A NEW FIRE RATED WOODEN BACKBOARD (LOCATION OF NEW DC POWER PLANT, CIENA/SIAD, & BB6630)
- EXISTING TELCO FIBER ACCESS PANEL AT&T PRELIMINARY TELCO POINT OF CONNECTION (P.O.C.)
- EXISTING 100A, 120/208V, 1ø, 3W, (12) CKT, SUB-PANEL 'B' AT&T TO REPLACE PANEL WITH NEW 100A, 120/208V, 1ø, 3W, (24) CKT PANEL
- (10) EXISTING 200A, 120/208V, 3ø, 4W, PANEL 'M'
- NEW AT&T GPS MOUNTED TO EXISTING BUILDING EXTERIOR AWNING
- NEW #2 GREEN STRANDED INSULATED GROUND WIRE TIE TO EXISTING BUILDING GROUNDING SYSTEM OR COD WATER PIPE







## **EQUIPMENT GROUNDING PLAN**



UNUSED

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GENERAL GROUNDING NOTES, AND EQUIPMENT & ANTENNA GROUNDING PLANS P20AT005

SPEEDWAY PLACERVILL

E03

