



Referral Early Consultation

Date: April 8, 2022

To: Distribution List (See Attachment A)

From: Emily Basnight, Assistant Planner
Planning and Community Development

Subject: STAFF APPROVAL APPLICATION NO. PLN2022-0039 – AT&T MOBILITY –
3140 N GRATTON RD

Respond By: April 25, 2022

******PLEASE REVIEW REFERRAL PROCESS POLICY******

The Stanislaus County Department of Planning and Community Development is soliciting comments from responsible agencies under the Early Consultation process to determine: a) whether or not the project is subject to CEQA and b) if specific conditions should be placed upon project approval.

Therefore, please contact this office by the response date if you have any comments pertaining to the proposal. Comments made identifying potential impacts should be as specific as possible and should be based on supporting data (e.g., traffic counts, expected pollutant levels, etc.). Your comments should emphasize potential impacts in areas which your agency has expertise and/or jurisdictional responsibilities.

These comments will assist our Department in preparing the conditions for a Staff Approval. Therefore, please list any conditions that you wish to have included as well as any other comments you may have. Please return all comments and/or conditions as soon as possible or no later than the response date referenced above.

Thank you for your cooperation. Please call (209) 525-6330 if you have any questions.

Applicant: Epic Wireless Group, LLC on behalf of AT&T Mobility

Project Location: 3140 North Gratton Road, at the southwest corner of East Monte Vista and North Santa Fe Avenues, in the Community of Denair.

APN: 024-039-009

Williamson Act Contract: N/A

General Plan: Urban Transition

Current Zoning: General Agriculture (A-2-10)

Project Description: Request to establish a wireless communications facility on a 4.84± acre parcel in the General Agricultural (A-2-10) zoning district. This proposal includes the installation of a 125-foot-tall monopole and 702± square-foot leasing area to be enclosed by a chain-link fence; the proposed leasing area and monopole will be located within a .4± acre area of the parcel that is currently enclosed with a 6-foot-tall chain-link fence with privacy slats. The monopole will include 15 antennas and 18 RRUS at the 121-foot centerline. Proposed ground equipment includes a 64± square-foot walk-in equipment cabinet, a 30kw diesel generator, and 190-gallon backup fuel tank. A 20-foot-wide all-weather access and utility easement is proposed for maintenance and fire access. The project also proposes a 6-foot-wide non-exclusive utility easement to extend from the facility to North Gratton Road. The facility will be unstaffed, however, up to two technicians are anticipated to access the site on an "as needed" basis for routine maintenance. The proposed wireless

communications facility meets the County's siting standards as specified in Chapter 21.91 of the County Zoning Ordinance for communication facilities. The site is currently improved with a single-family dwelling, detached garage, and .4± acre area enclosed by a 6-foot-tall chain-link fence with privacy slats adjacent to the dwelling.

Full document with attachments available for viewing at:
<http://www.stancounty.com/planning/pl/act-projects.shtm>



DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

1010 10TH Street, Suite 3400, Modesto, CA 95354
Planning Phone: (209) 525-6330 Fax: (209) 525-5911
Building Phone: (209) 525-6557 Fax: (209) 525-7759

STAFF APPROVAL APPLICATION NO. PLN2022-0039 – AT&T MOBILITY – 3140 N GRATTON RD
Attachment A

Distribution List

X	CROP DUSTERS	X	STAN CO ERC
X	IRRIGATION DIST: TURLOCK	X	STAN CO HAZARDOUS MATERIALS
X	MOSQUITO DIST: TURLOCK	X	STAN CO PUBLIC WORKS
X	MUNICIPAL ADVISORY COUNCIL: DENAIR	X	STAN CO SUPERVISOR DIST 2: CHIESA
X	RAILROAD: BURLINGTON NORTHERN SANTA FE	X	STANISLAUS LAFCO
X	STAN CO BUILDING PERMITS DIVISION	X	SURROUNDING LAND OWNERS
X	STAN CO DER		



STANISLAUS COUNTY CEQA REFERRAL RESPONSE FORM

TO: Stanislaus County Planning & Community Development
1010 10th Street, Suite 3400
Modesto, CA 95354

FROM: _____

SUBJECT: STAFF APPROVAL APPLICATION NO. PLN2022-0039 – AT&T MOBILITY –
3140 N GRATTON RD

Based on this agency's particular field(s) of expertise, it is our position the above described project:

- _____ Will not have a significant effect on the environment.
_____ May have a significant effect on the environment.
_____ No Comments.

Listed below are specific impacts which support our determination (e.g., traffic general, carrying capacity, soil types, air quality, etc.) – (attach additional sheet if necessary)

- 1.
- 2.
- 3.
- 4.

Listed below are possible mitigation measures for the above-listed impacts: *PLEASE BE SURE TO INCLUDE WHEN THE MITIGATION OR CONDITION NEEDS TO BE IMPLEMENTED (PRIOR TO RECORDING A MAP, PRIOR TO ISSUANCE OF A BUILDING PERMIT, ETC.):*

- 1.
- 2.
- 3.
- 4.

In addition, our agency has the following comments (attach additional sheets if necessary).






Response prepared by:

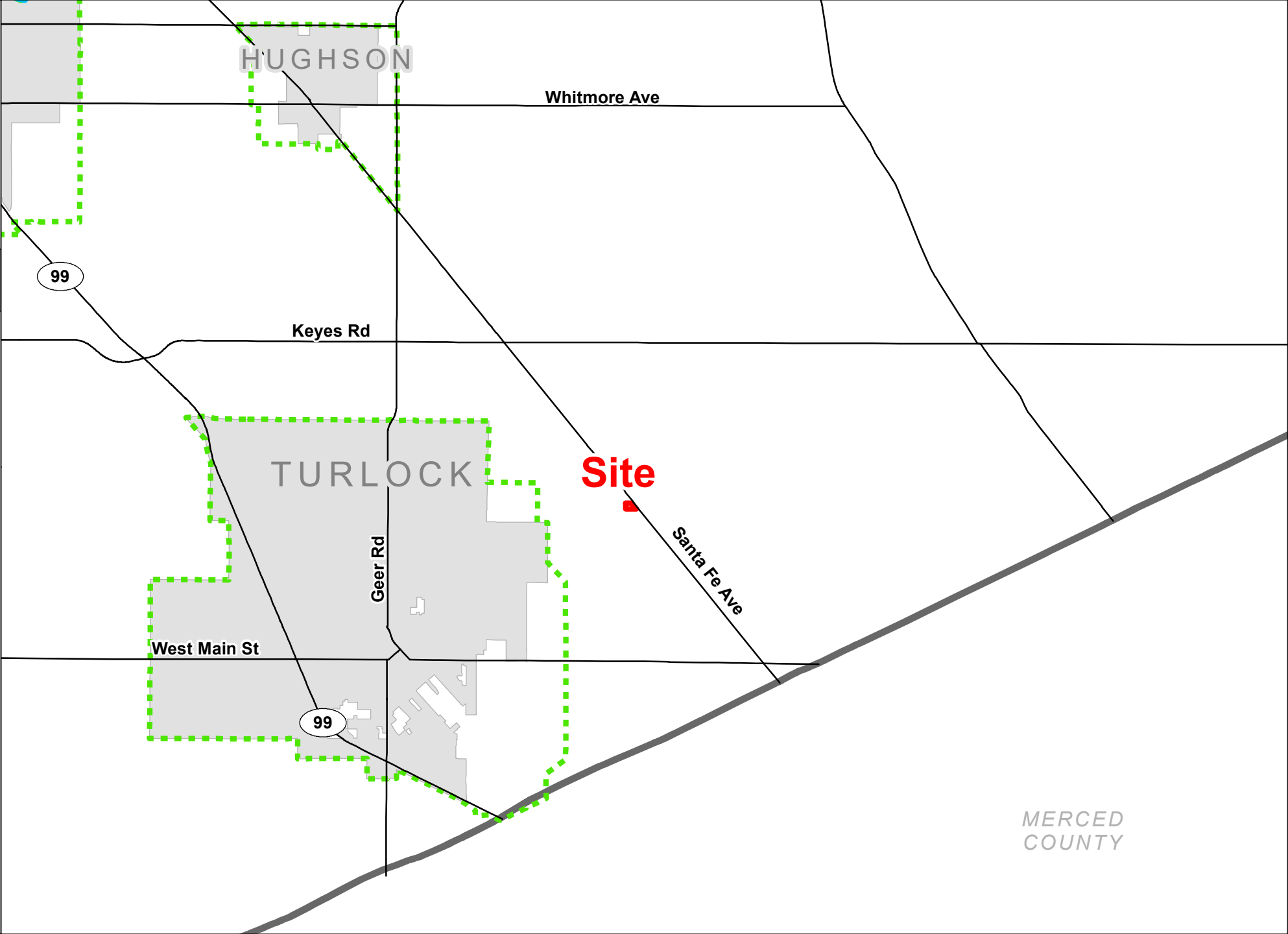
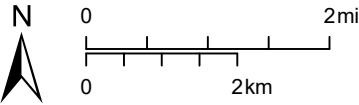
Name	Title	Date
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AT&T MOBILITY
3140 N. GRATTON RD
SAA PLN2022-0039

AREA MAP

LEGEND

-  Project Site
-  Sphere of Influence
-  City
-  Road
-  River







AT&T MOBILITY

3140 N. GRATTON RD







SAA PLN2022-0039

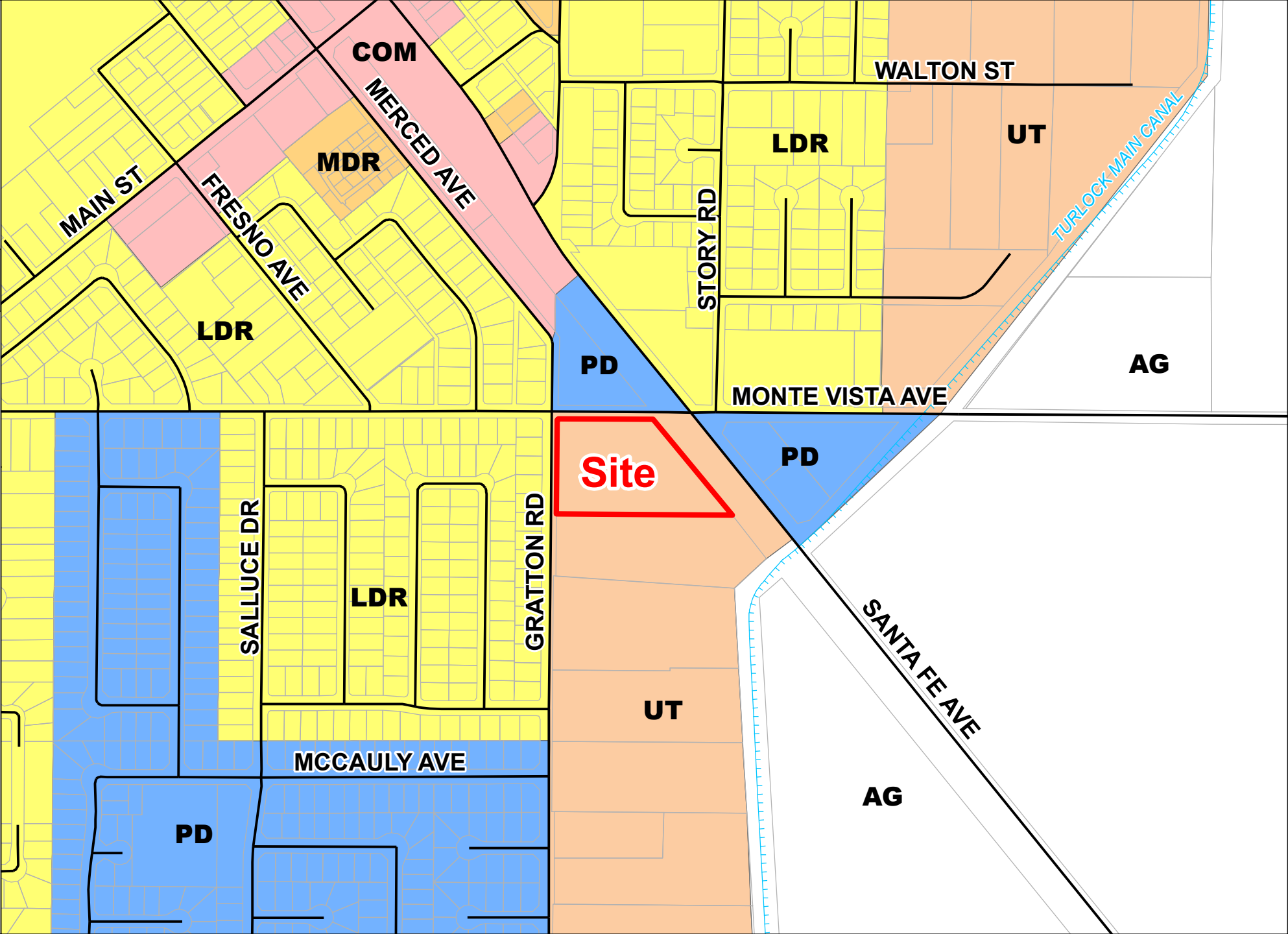
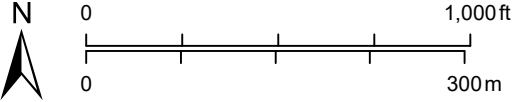
GENERAL PLAN MAP

LEGEND

-  Project Site
-  Parcel
-  Road
-  Canal

General Plan





-  Agriculture
-  Planned Development
-  Low Density Residential
-  Medium Density Residential
-  Commercial
-  Urban Transition













AT&T MOBILITY
3140 N. GRATTON RD
SAA PLN2022-0039

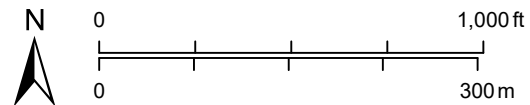
ZONING MAP

LEGEND

-  Project Site
-  Parcel
-  Road
-  Canal

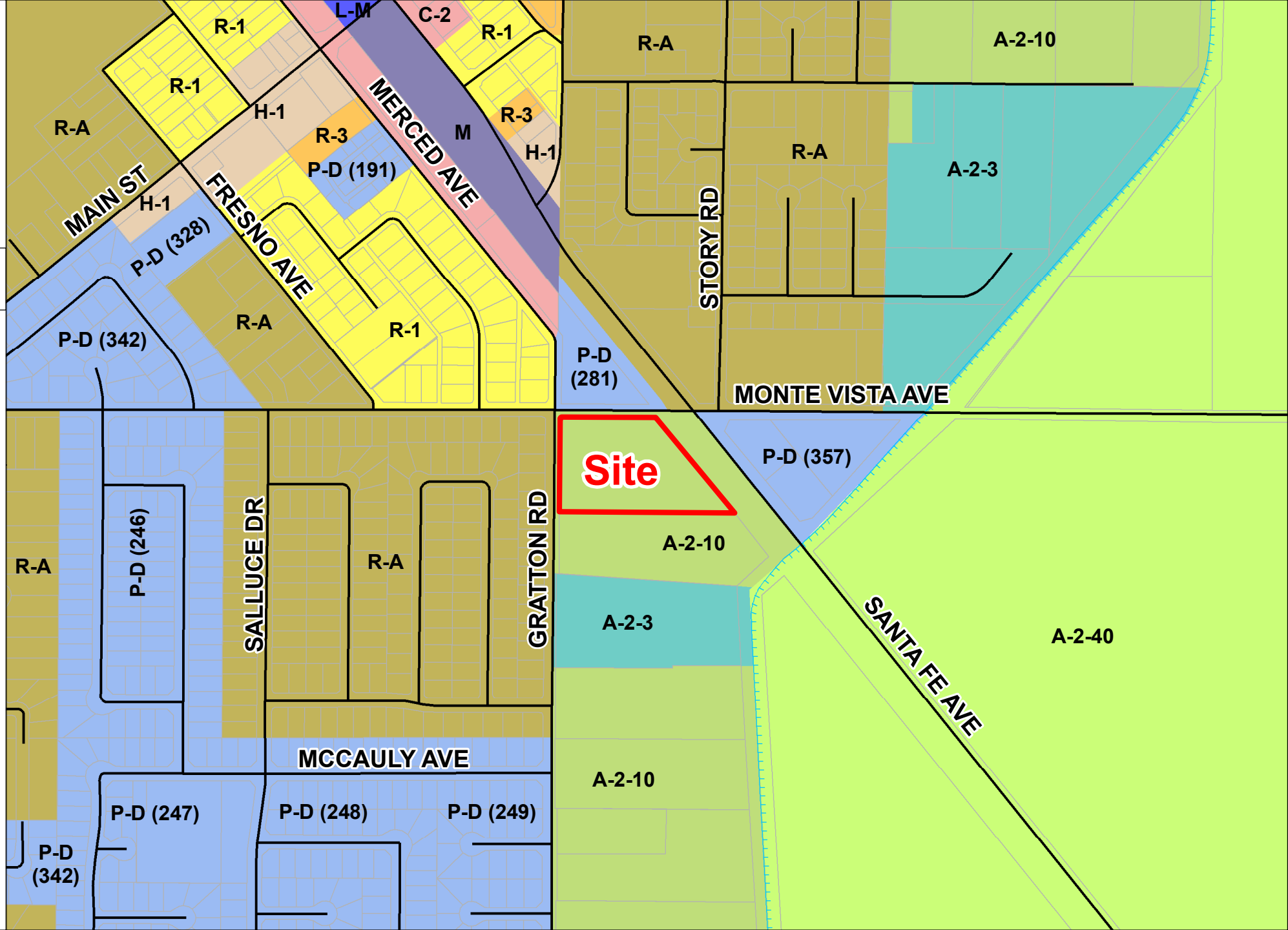
Zoning Designation

-  General Agriculture 3 Acre
-  General Agriculture 10 Acre
-  General Agriculture 40 Acre
-  Planned Development
-  Limited Industrial
-  Rural Residential
-  Multiple Family
-  Single Family Residential
-  General Commercial
-  Highway Frontage



Source: Planning Department GIS

Date: 3/29/2022






AT&T MOBILITY

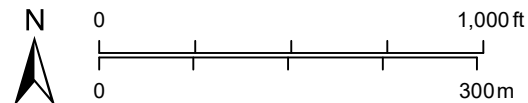
3140 N. GRATTON RD

SAA PLN2022-0039

2021 AERIAL AREA MAP

LEGEND

-  Project Site
-  Road
-  Canal



Source: Planning Department GIS

Date: 3/28/2022



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AT&T MOBILITY


3140 N. GRATTON RD

SAA PLN2022-0039

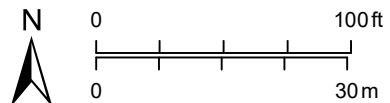
2021 AERIAL SITE MAP

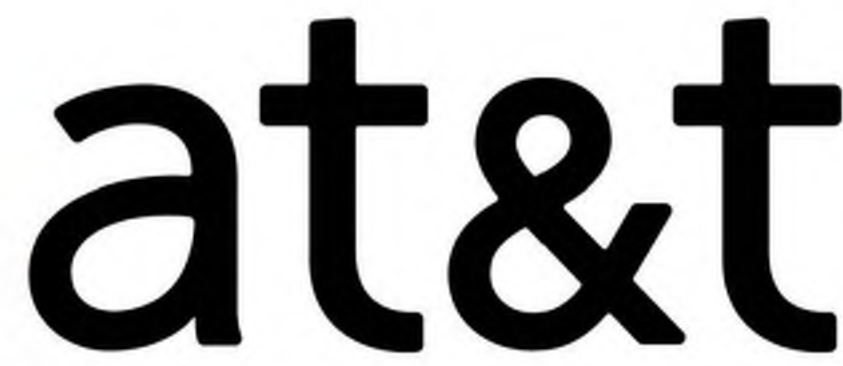
LEGEND

 Project Site

 Road

 Canal





PACE I.D.: MRSFR

SITE NAME: DENAIR

APN: 024-039-009-000

/ MONOPOLE

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THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS, OR BE RESPONSIBLE FOR THE SAME.



PLANS ARE INTENDED TO BE USED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, EASEMENTS, AND RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, EASEMENTS, AND RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, EASEMENTS, AND RIGHTS-OF-WAY.

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

CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.

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.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK 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 ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.

THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.

DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.

CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.

ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.

ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.

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.

INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.

THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
- IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION

TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING

TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS

TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

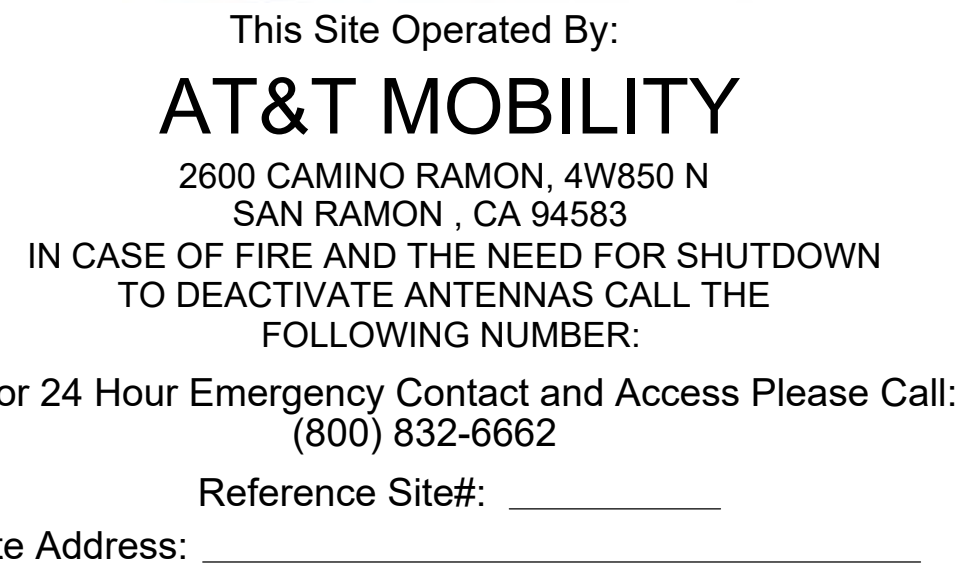
ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS

B.	ANCHOR BOLT	ICGB.	ISOLATED COPPER GROUND BUS
ABV.	ABOVE	IN. (")	INCH(ES)
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT.	INTERIOR
ADDL	ADDITIONAL	LB.(#)	POUND(S)
A.F.F.	ABOVE FINISHED FLOOR	L.B.	LAG BOLTS
A.F.G.	ABOVE FINISHED GRADE	L.F.	LINEAR FEET (FOOT)
ALUM.	ALUMINUM	L.	LONG(ITU)DINAL
ALT.	ALTERNATE	MAS.	MASONRY
ANT.	ANTENNA	MAX.	MAXIMUM
APPROX.	APPROXIMATE(LY)	M.B.	MACHINE BOLT
ARCH.	ARCHITECT(U)RAL	MECH.	MECHANICAL
AWG.	AMERICAN WIRE GAUGE	MFR.	MANUFACTURER
BLDG.	BUILDING	MIN.	MINIMUM
BLK.	BLOCK	MISC.	MISCELLANEOUS
BLKG.	BLOCKING	MTL.	METAL
BM.	BEAM	(N)	NEW
B.N.	BOUNDARY NAILING	NO.(#)	NUMBER
BTOW.	BARE TINNED COPPER WIRE	N.T.S.	NOT TO SCALE
B.O.F.	BOTTOM OF FOOTING	O.C.	ON CENTER
BU	BACK-UP CABINET	OPNG.	OPENING
CAB.	CABINET	P/C	PRECAST CONCRETE
CANT.	CANTILEVER(ED)	PCS	PERSONAL COMMUNICATION SERVICES
C.I.P.	CAST IN PLACE	PLY.	PLYWOOD
CLG.	CEILING	PPC	POWER PROTECTION CABINET
CLR.	CLEAR	PRC	PRIMARY RADIO CABINET
COL.	COLUMN	P.S.F.	POUNDS PER SQUARE FOOT
CONC.	CONCRETE	P.S.I.	POUNDS PER SQUARE INCH
CONN.	CONNECTION(OR)	P.T.	PRESSURE TREATED
CONST.	CONSTRUCTION	PWR.	POWER (CABINET)
CONT.	CONTINUOUS	QTY.	QUANTITY
d	PENNY (NAILS)	RAD.(R)	RADIUS
DBL.	DOUBLE	REF.	REFERENCE
DEPT.	DEPARTMENT	REINF.	REINFORCEMENT(ING)
D.F.	DOUBLE GLAS FIR	REQ'D/	REQUIRED
DIA.	DIAMETER	RGS.	RIGID GALVANIZED STEEL
DIAG.	DIAGONAL	SCH.	SCHEDULE
DIM.	DIMENSION	SHT.	SHEET
DWG.	DRAWING(S)	SIM.	SIMILAR
DWL.	DOWEL(S)	SPEC.	SPECIFICATIONS
EA.	EACH	SQ.	SQUARE
ELEV.	ELEVATION	S.S.	STAINLESS STEEL
ELEC.	ELECTRICAL	STD.	STANDARD
ELEV.	ELEVATION	STL.	STEEL
EMT.	ELECTRIAL METALLIC TUBING	STRUC.	STRUCTURAL
E.N.	EDGE NAILING	TEMP.	TEMPORARY
ENG.	ENGINEER	THK.	THICK(NESS)
EQ.	EQUAL	T.N.	TOE NAIL
EXP.	EXPANSION	T.O.A.	TOP OF ANTENNA
EXST. (E)	EXISTING	T.O.C.	TOP OF CURB
EXT.	EXTERIOR	T.O.F.	TOP OF FOUNDATION
FAB.	FABRICATION (OR)	T.O.P.	TOP OF PLATE (PARAPET)
F.F.	FINISH FLOOR	T.O.S.	TOP OF STEEL
F.G.	FINISH GRADE	T.O.W.	TOP OF WALL
FIN.	FINISH (ED)	TYP.	TYPICAL
FLR.	FLOOR	U.G.	UNDER GROUND
FOUND.	FOUNDATION	U.L.	UNDERWRITERS LABORATORY
F.O.C.	FACE OF CONCRETE	U.N.O.	UNLESS NOTED OTHERWISE
F.O.M.	FACE OF MASONRY	V.I.F.	VERIFY IN FIELD
F.O.S.	FACE OF STUD	W	WIDE (WIDTH)
F.O.W.	FACE OF WALL	w/	WITH
F.S.	FINISH SURFACE	WD.	WOOD
FT. (')	FOOT (FEET)	W.P.	WEATHERPROOF
FTG.	FOOTING	WT.	WEIGHT
G.	GROWTH (CABINET)	Q	CENTERLINE
GAG.	GAUGE	R	PLATE, PROPERTY LINE
GI.	GALVANIZE (D)		
G.F.I.	GROUND FAULT INTERRUPTER		
GLB. (GLU-LAM)	GLUE LAMINATED BEAM		
GPS	GLOBAL POSITIONING SYSTEM		
GRND.	GROUND		
HDR.	HEADER		
HGR.	HANGER		
HT.	HEIGHT		

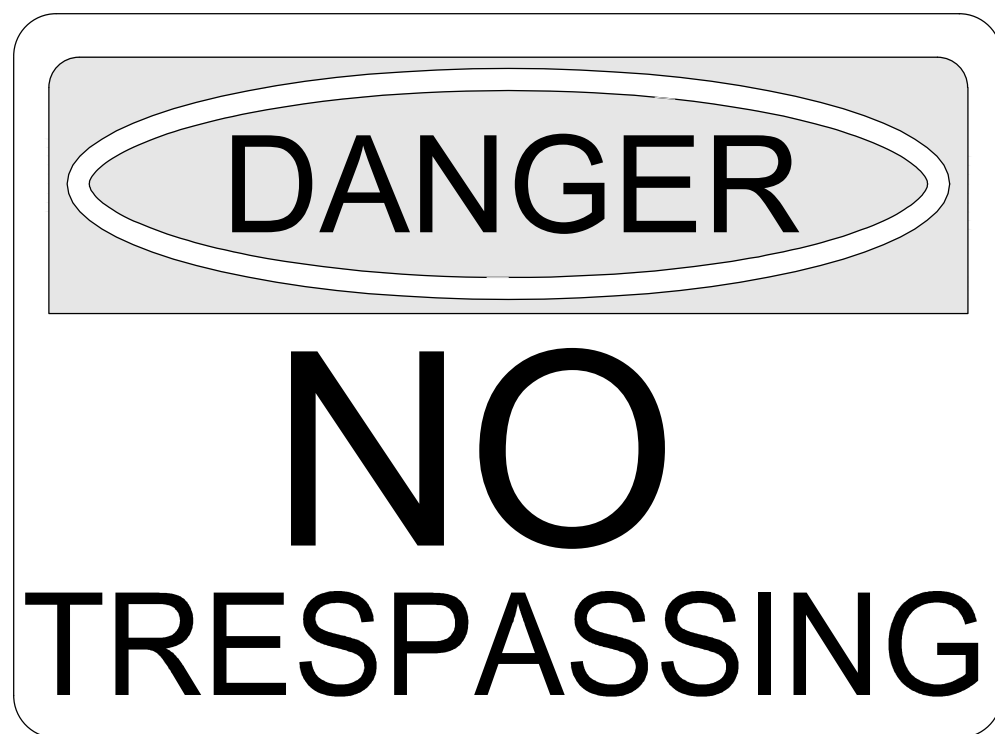
	BLDG. SECTION		(E) BRICK
	WALL SECTION		(E) MASONRY
	DETAIL		CONCRETE
	ELEVATION		EARTH
	DOOR SYMBOL		GRAVEL
	WINDOW SYMBOL		PLYWOOD
	TILT-UP PANEL MARK		SAND
	PROPERTY LINE		PLYWOOD
	CENTERLINE		SAND
	ELEVATION DATUM		(E) STEEL
	GRID/COLUMN LINE		MATCH LINE
	KEYNOTE, DIMENSION ITEM		GROUND CONDUCTOR
	KEYNOTE, CONSTRUCTION ITEM		OVERHEAD SERVICE CONDUCTORS
	WALL TYPE MARK		TELEPHONE CONDUIT
	OFFICE		POWER CONDUIT
	ROOM NAME		COAXIAL CABLE
	ROOM NUMBER		CHAIN LINK FENCE
			WOOD FENCE
			(P) ANTENNA
			(P) RRU
			(P) DC SURGE SUPPRESSION
			(F) ANTENNA
			(F) RRU
			(E) EQUIPMENT

3		
2		
1		
0		
C		
B		
A	2/25/2022	90% ZD SUB.
REV	DATE	DESCRIPTION

GN-1



11	FENCED COMPOUND SIGNAGE
	N.T.S.



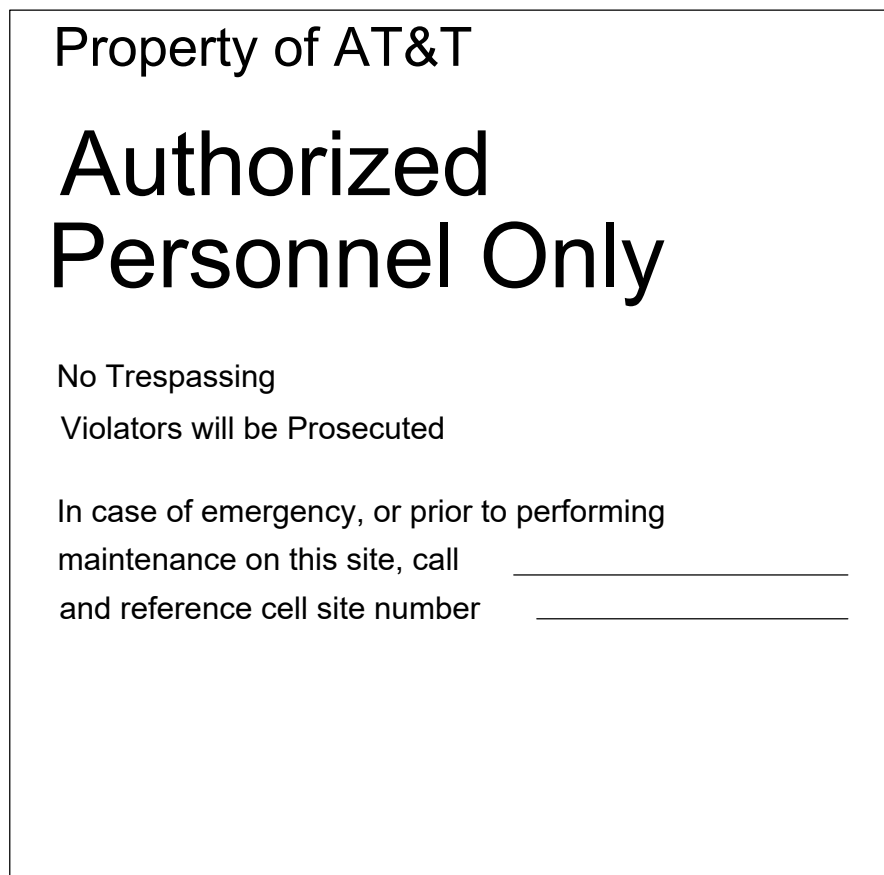
10	FENCED COMPOUND SIGNAGE
	N.T.S.



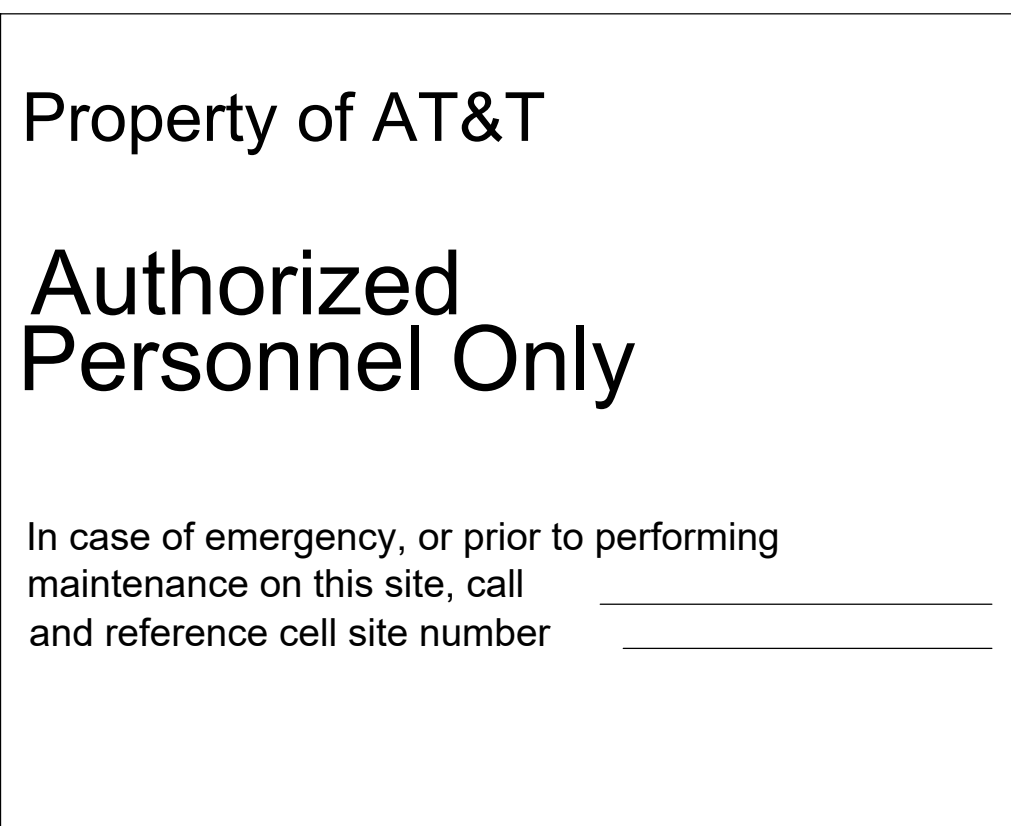
7 FCC ASR SIGNAGE
N.T.S.



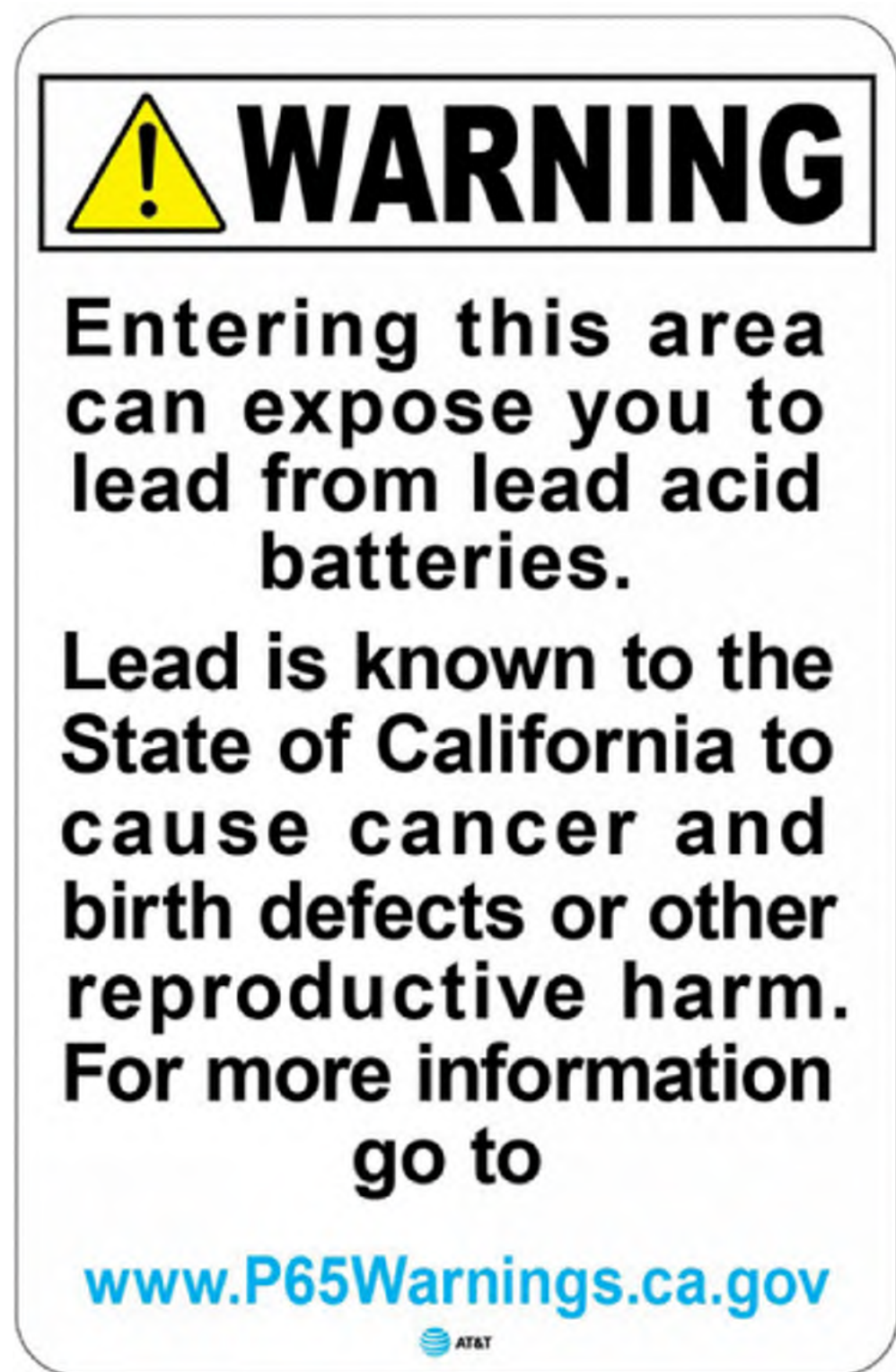
9	DOOR / EQUIPMENT SIGN
	N.T.S.



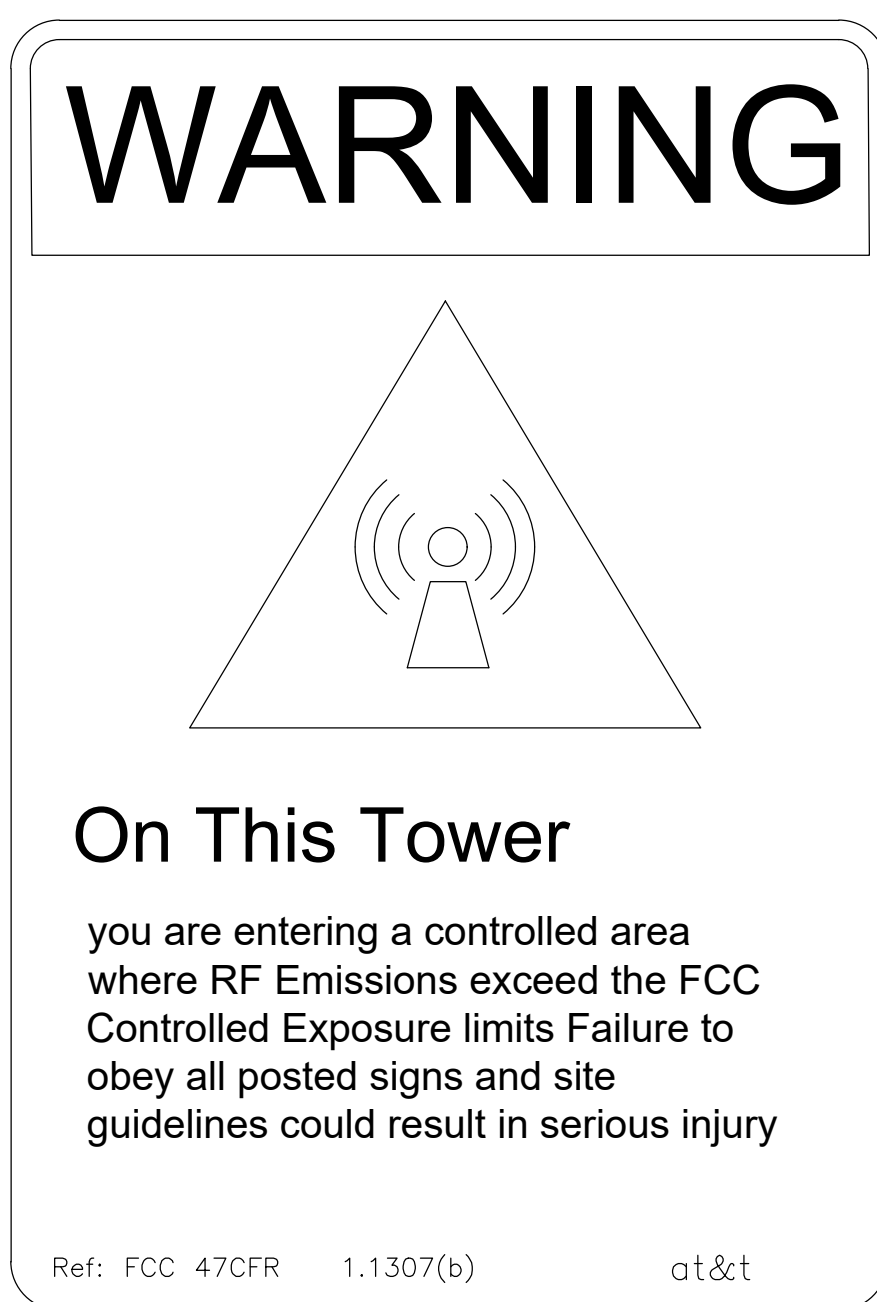
6	GATE SIGNAGE
	N.T.S.



5 SHELTER / CABINET DOORS SIGNAGE
N.T.S.



4	PROP 65 WARNING SIGNAGE
	N.T.S.



3	CAUTION AND WARNING SIGN
	N.T.S.



SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVENTING THE STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT w/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mW/cm² AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mW/cm²
3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR WORKING PLATFORM LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.
4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
5. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
6. ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR Y THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY w/ ANSI C95.2 COLOR, SYMBOL, AND CONTRAST CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
7. PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE w/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE w/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED w/ FADE RESTRANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER w/ A DETAILED SHOP DRAWING OF EACH BARRICADE. UPON CONSTRUCTION COMPLETION.

2 GENERAL NOTES



1 NOTICE SIGN
N.T.S.

Issued For:

CVL01180

DENAIR

3140 NORTH GRATTON ROAD
DENAIR, CA 95316
FA# 15541189
USID# 315889

Prepared For:



Vendor:



AT&T SITE NO: CVL01180

PROJECT NO: 22-003

DRAWN BY: BW

CHECKED BY: BW

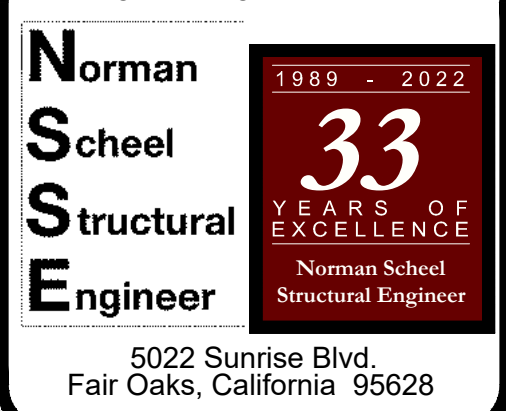
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A	2/25/2022	90% ZD SUB.
REV	DATE	DESCRIPTION

Licensee:



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Designer / Engineer:



Sheet Title:

SITE SIGNAGE

Sheet Number:

GN-2

All that certain lease area being a portion Parcel 1 as is shown on that certain Parcel Map filed for record at Book 28 of Parcel Maps at Page 60, Official Records of Stanislaus County, and being a portion of the NW 1/4 of Section 8, Township 5 South, Range 11 East, and being located in the County of Stanislaus, State of California, being more particularly described as follows:

Together with the a n-exclusive easement for access purposes twenty feet in width, the centerline of which is described as follows: beginning at a point which bears South 89°36'19" East 10.00 feet from the Southeast corner of the above described lease area and running thence North 00°23'41" East 60.00 feet to a point hereafter defined as Point "A"; thence continuing North 00°23'41" East 92.2 feet more or less to the public right of way.

Also together with the a non-exclusive easement for utility purposes six feet in width, the centerline of which is described as follows: beginning at a point which bears South 00°23'41" West 3.00 feet from the Southeast corner of the above described lease area and running thence North 89°36'19" West 284.27 feet; thence South 65°22'23" West 4.6 feet more or less to the public right of way.

A.T.& T. Mobility

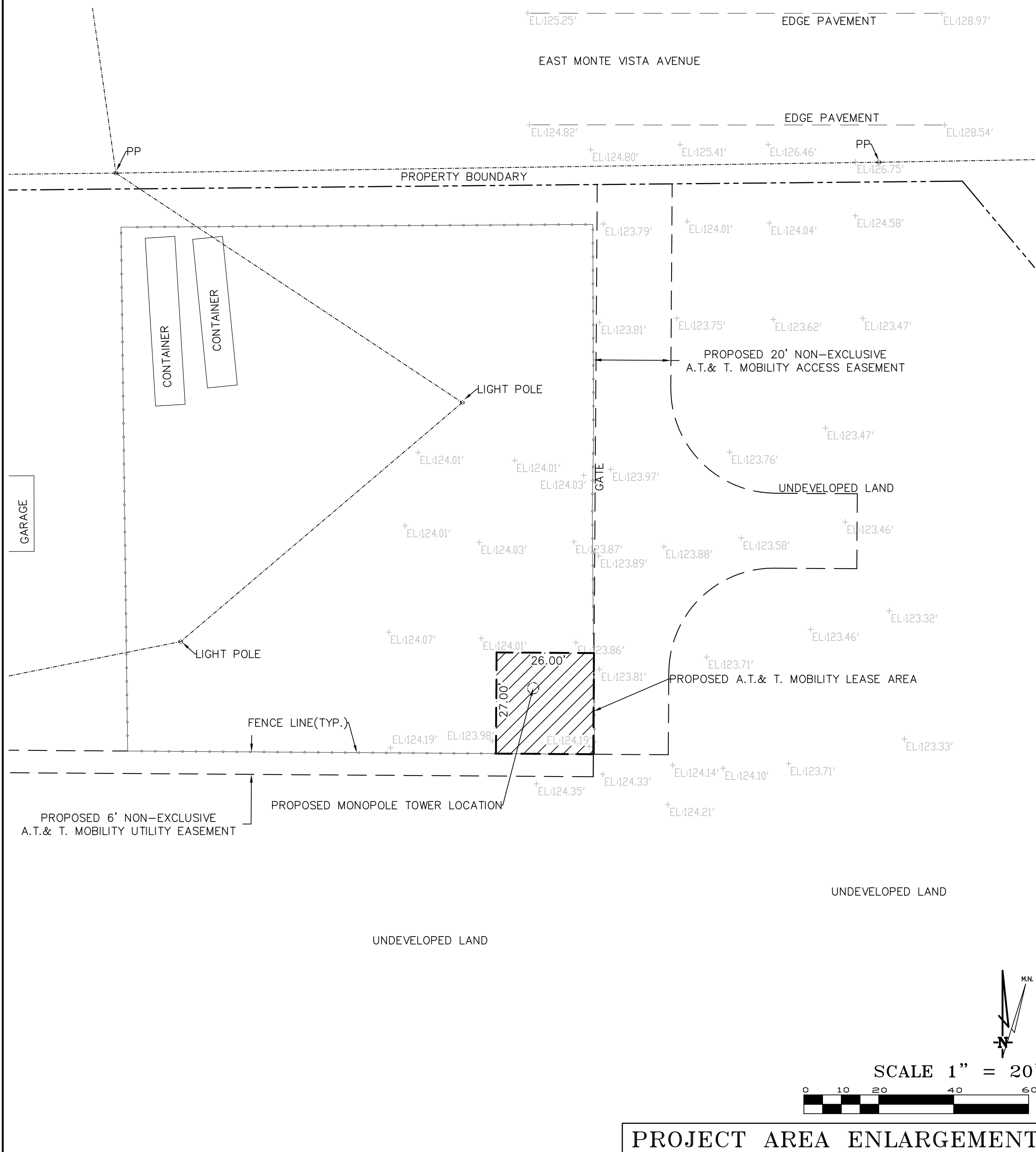
Project Site Location: 3140 North Grattan Road
Denair, CA 95316
Stanislaus County

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder Pro XL post processed with Pathfinder Office software.

Coordinates
Latitude: N 37° 31' 16.54" (NAD83) N 37° 31' 16.78" (NAD27)
Longitude: W 120° 47' 34.61" (NAD83) W 120° 47' 30.87" (NAD27)

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91:003, and that they are true and accurate to the best of my knowledge and belief.

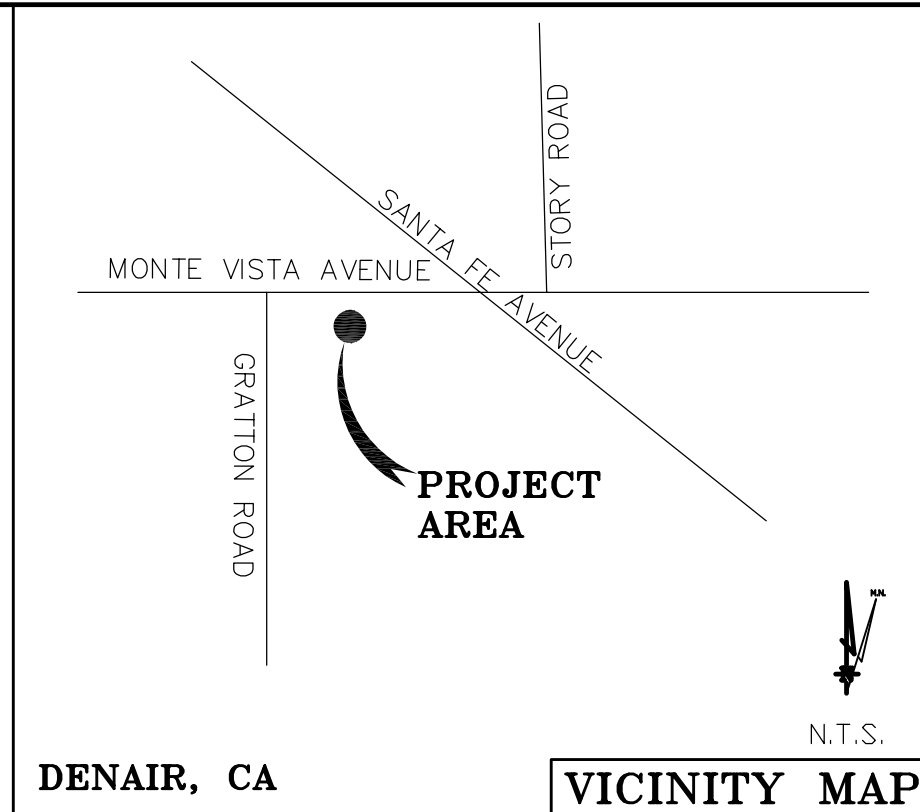
Kenneth D. Geil California RCE 14803



PROJECT AREA ENLARGEMENT

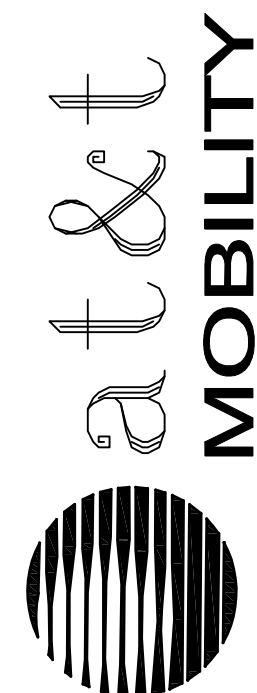
OWNER(S): BEVERLY TICKENOFF
1305 VALLEY VIEW DRIVE
TURLOCK, CA 95380

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BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND
AND RECORD INFORMATION. THIS IS NOT A BOUNDARY
SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH
PROPERTY LINES AND EASEMENTS BEING A GRAPHIC
DEPICTION BASED ON INFORMATION GATHERED FROM
VARIOUS SOURCES OF RECORD AND AVAILABLE
MONUMENTATION FOUND DURING THE FIELD SURVEY. NO
EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY
LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR
SURVEYED. NO PROPERTY MONUMENTS WERE SET.

Surveyor	GEIL ENGINEERING <u>ENGINEERING • SURVEYING • PLANNING</u> 1298 HIGH STREET AUBURN, CALIFORNIA 96803 phone: (530) 885-0428 fax: (530) 823-1309		DEPT	APPROVED	DATE
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CVL01180
DENAIR
3140 NORTH GRATTON DRIVE
DENAIR, CA 95316
PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS		
REV	02-16-22 N. ROHDE	DRAWING SUBMITTAL
REV	02-22-22 N. ROHDE	LEASE AREA MOD.
REV		
REV		
REV		

Sheet

C-1

OVERALL SITE PLAN

- NOTES:
1. NO GRADING OR PERMANENT CONSTRUCTION SHALL OCCUR WITHIN DRIP LINES OF TREES THAT ARE TO REMAIN WITHOUT ARBORIST APPROVAL.
 2. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIGALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES. IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT PDC.

THIS IS NOT A SITE SURVEY

ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.

Issued For:

CVL01180

DENAIR

3140 NORTH GRATTON ROAD
DENAIR, CA 95316
FA# 15541189
USID# 315889

Prepared For:



5001 Executive Parkway
San Ramon, California 94583

Vendor:



605 Coolidge Drive, Suite 100
Folsom, California 95630

AT&T SITE NO: CVL01180

PROJECT NO: 22-003

DRAWN BY: BW

CHECKED BY: BW

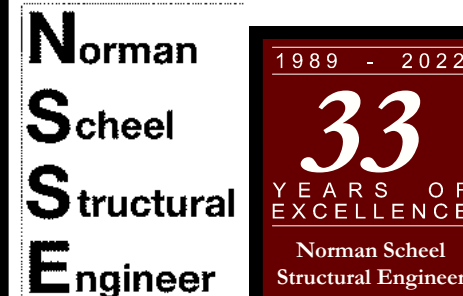
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REV	DATE	DESCRIPTION

Licensee:



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Designer / Engineer:



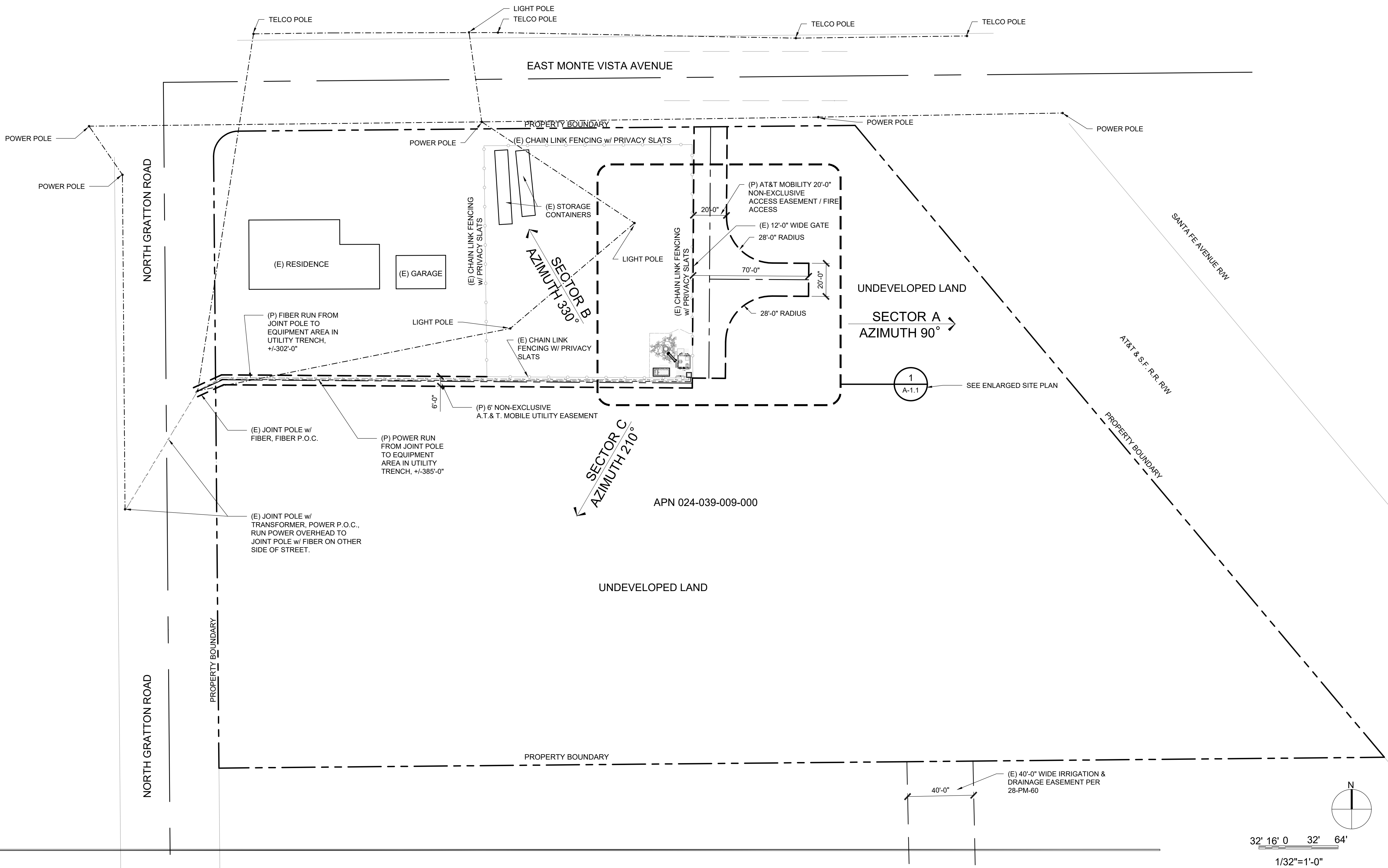
5022 Sunrise Blvd.
Fair Oaks, California 95628

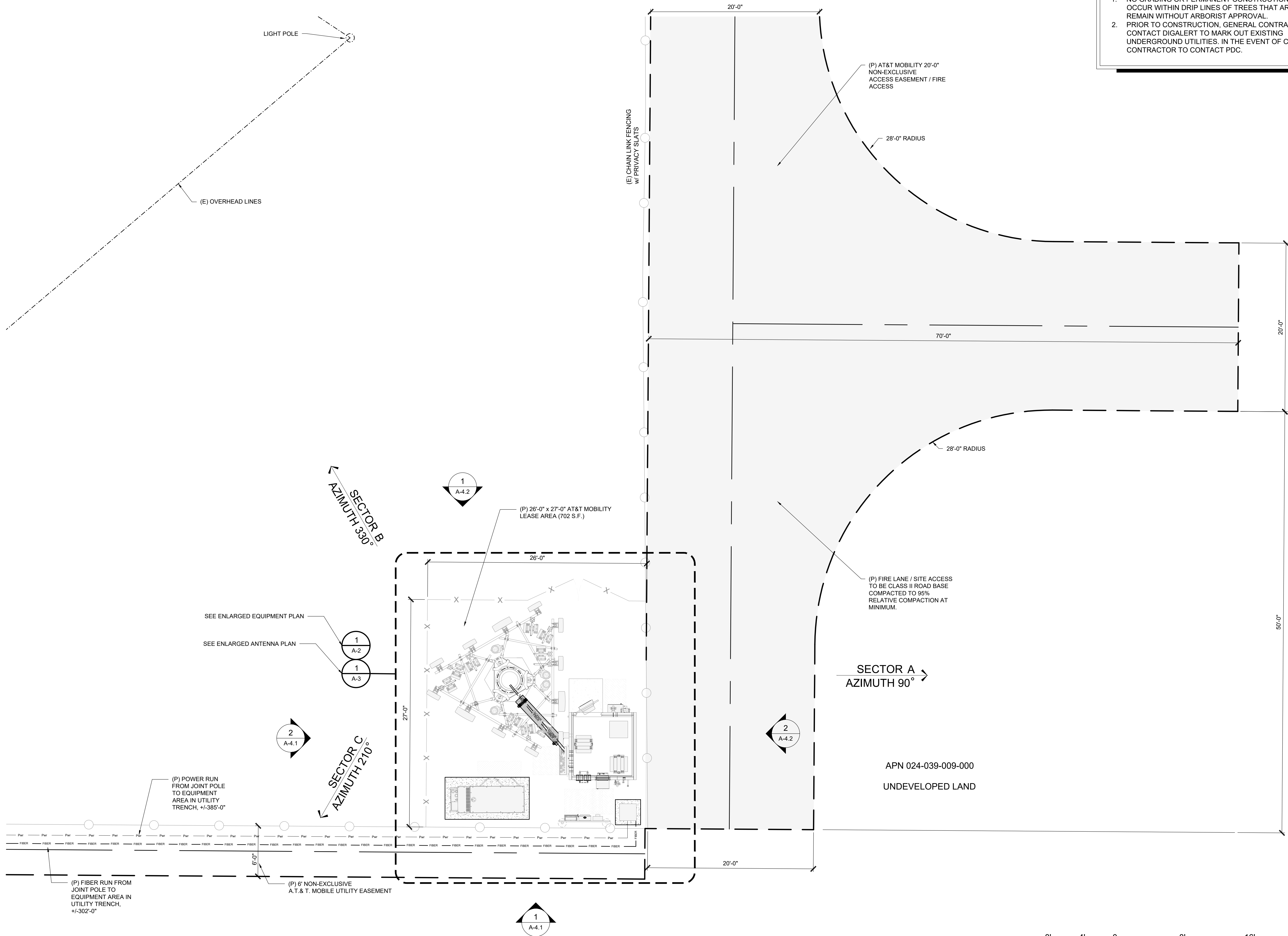
Sheet Title:

OVERALL SITE PLAN

Sheet Number:

A-1





- NOTES:
1. NO GRADING OR PERMANENT CONSTRUCTION SHALL OCCUR WITHIN DRIP LINES OF TREES THAT ARE TO REMAIN WITHOUT ARBORIST APPROVAL.
 2. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIGALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES. IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT PDC.

Issued For:

CVL01180

DENAIR

3140 NORTH GRATTON ROAD
DENAIR, CA 95316
FA# 15541189
USID# 315889

Prepared For:

at&t

5001 Executive Parkway
San Ramon, California 94583

Vendor:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World

605 Coolidge Drive, Suite 100
Folsom, California 95630

AT&T SITE NO:	CVL01180
PROJECT NO:	22-003
DRAWN BY:	BW
CHECKED BY:	BW

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A	2/25/2022	90% ZD SUB.
REV	DATE	DESCRIPTION

Licensee:

REGISTERED PROFESSIONAL ENGINEER
NORMAN J. SCHEEL, ENGINEER
No. 2567
Exp. 12-31-23
STRUCTURAL
STATE OF CALIFORNIA

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

Designer / Engineer:

Norman Scheel Structural Engineer

1989 - 2022
33
YEARS OF EXCELLENCE
Norman Scheel
Structural Engineer

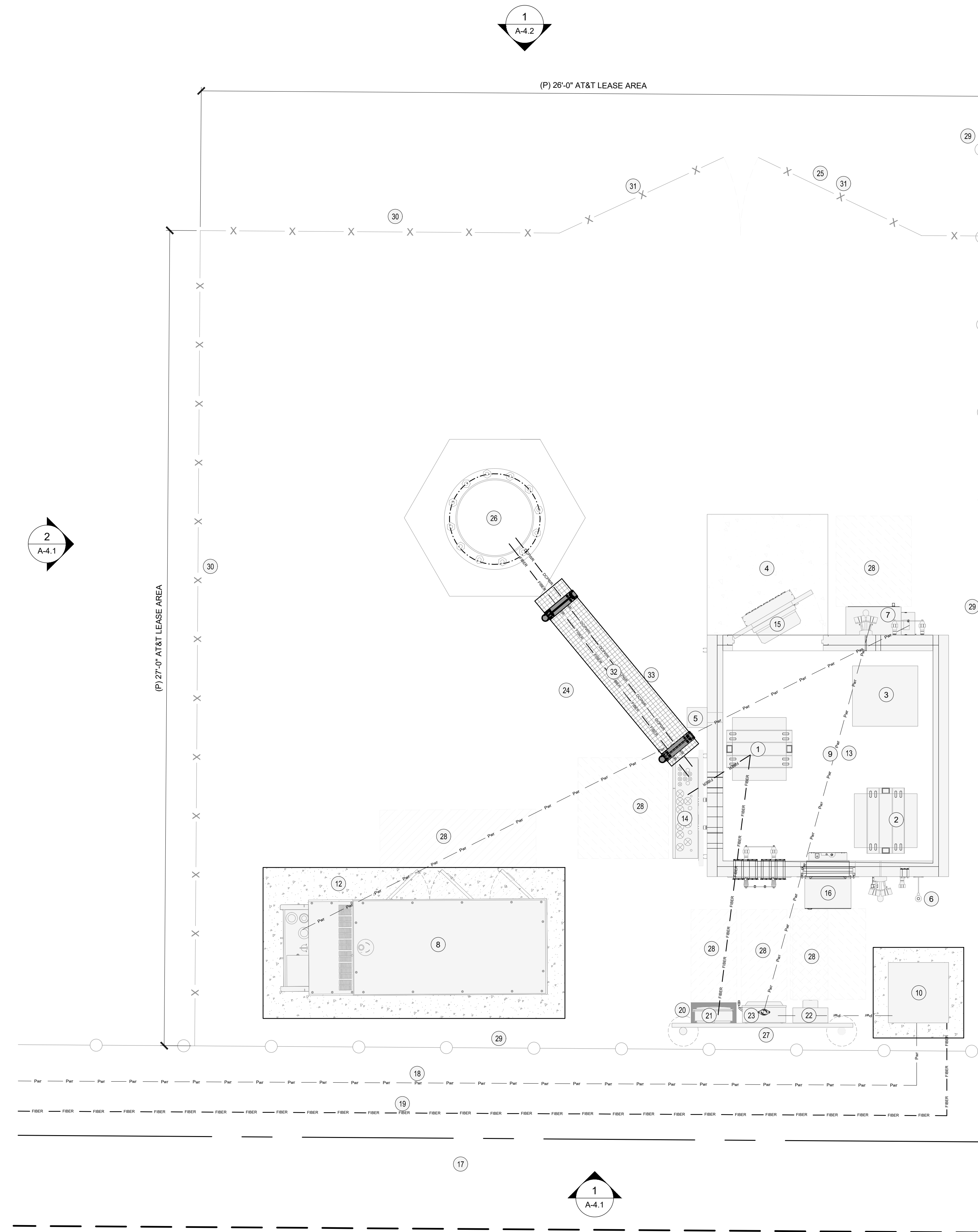
5022 Sunrise Blvd.
Fair Oaks, California 95628

Sheet Title:

ENLARGED SITE PLAN

Sheet Number:

A-1.1



KEYNOTES

- (N) RF RACK #1, (2) 0630 480Us INSTALLED IN RACK
- (F) RF RACK #2
- (N) POWER PLANT RACK W/ (2) STRING OF BATTERIES, INSTALL (12) RECTIFIERS WITH DOPP IN RACK
- (P) 4"x4" CONCRETE STOOP
- (N) 2A:20BC RATED FIRE EXTINGUISHER IN WEATHER RESISTANT CABINET
- (N) OPS UNIT
- (N) INTERSECT 30 POSITION INTEGRATED LOAD CENTER w/ CAMLOCK GENERATOR INTERFACE
- (N) 30KW AC DIESEL STANDBY GENERATOR W/ LEVEL 2 ACOUSTIC ENCLOSURE & ATTACHED 180 GAL CAPACITY BELLY TANK
- (N) 6'x8' SHELTER SLAB
- (N) 50KVA STEPDOWN TRANSFORMER ON CONCRETE PAD
- (N) 20'-0" WIDE FIRE ACCESS DRIVE, SEE SHEET A-1.1 FOR SPECIFICATIONS
- (N) 5'x10' GENERATOR SLAB
- (N) AT&T 6'-0"x 8'-0" CELESTON WALK IN SHELTER
- (N) SPD BOX MOUNTED ON W/C
- (N) HVAC UNIT PROVIDED WITH WALK IN EQUIPMENT SHELTER
- (N) HVAC DAMPER HOOD
- (N) NON-EXCLUSIVE 6'-0" WIDE AT&T MOBILITY UTILITY TRENCH
- (N) POWER RUN FROM JOINT POLE TO EQUIPMENT AREA, +/- 385'-0"
- (N) FIBER RUN FROM JOINT POLE TO EQUIPMENT AREA, +/- 302'-0"
- (N) HOFFMAN BOX BELOW CIENNA
- (N) CIENNA CABINET BY AT&T LANDLINE ON (N) H-FRAME
- (N) AT&T 200A ELECTRICAL METER
- (N) AT&T 200A DISCONNECT w/ BYPASS TEST FACILITY
- (N) GRAVEL BED OVER MARFI NEED BARRIER THROUGHOUT AT&T COMPOUND
- (N) CARRIER CONTACT SIGNAGE, FIRE KNOX BOX AT GATE
- (N) MONOPOLE TOWER, TOWER FOOTING
- (N) UTILITY H-FRAME
- NEC CLEAR WORKING AREA TYPICAL
- (E) CHAIN LINK FENCING w/ PRIVACY SLATS
- (N) CHAIN LINK FENCING w/ PRIVACY SLATS
- (N) 6'-0" CHAIN LINK FENCE GATE w/ PRIVACY SLATS
- (N) (12) DC TRUNKS, / (4) FIBER TRUNKS RUN FROM SHELTER TO ANTENNAS ON TOWER, +/- 140'-0" ON (N) ICEBRIDGE
- (N) 5'-0" LONG ICE BRIDGE

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3140 NORTH GRATTON ROAD
DENAIR, CA 95316
FA# 15541189
USID# 315889

Prepared For:



Vendor:



AT&T SITE NO: CVL01180

PROJECT NO: 22-003

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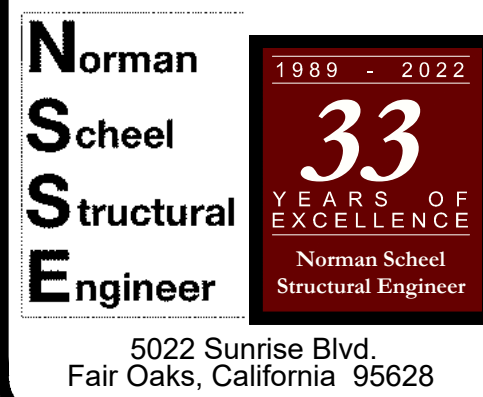
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Designer / Engineer:

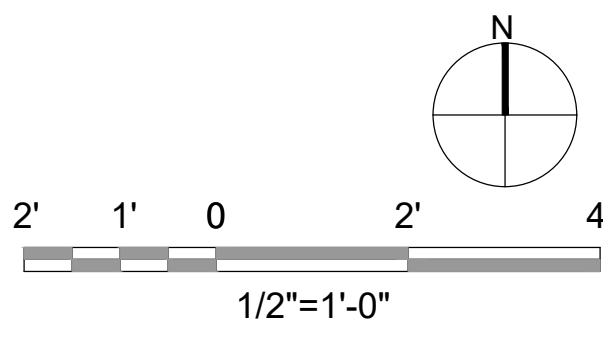


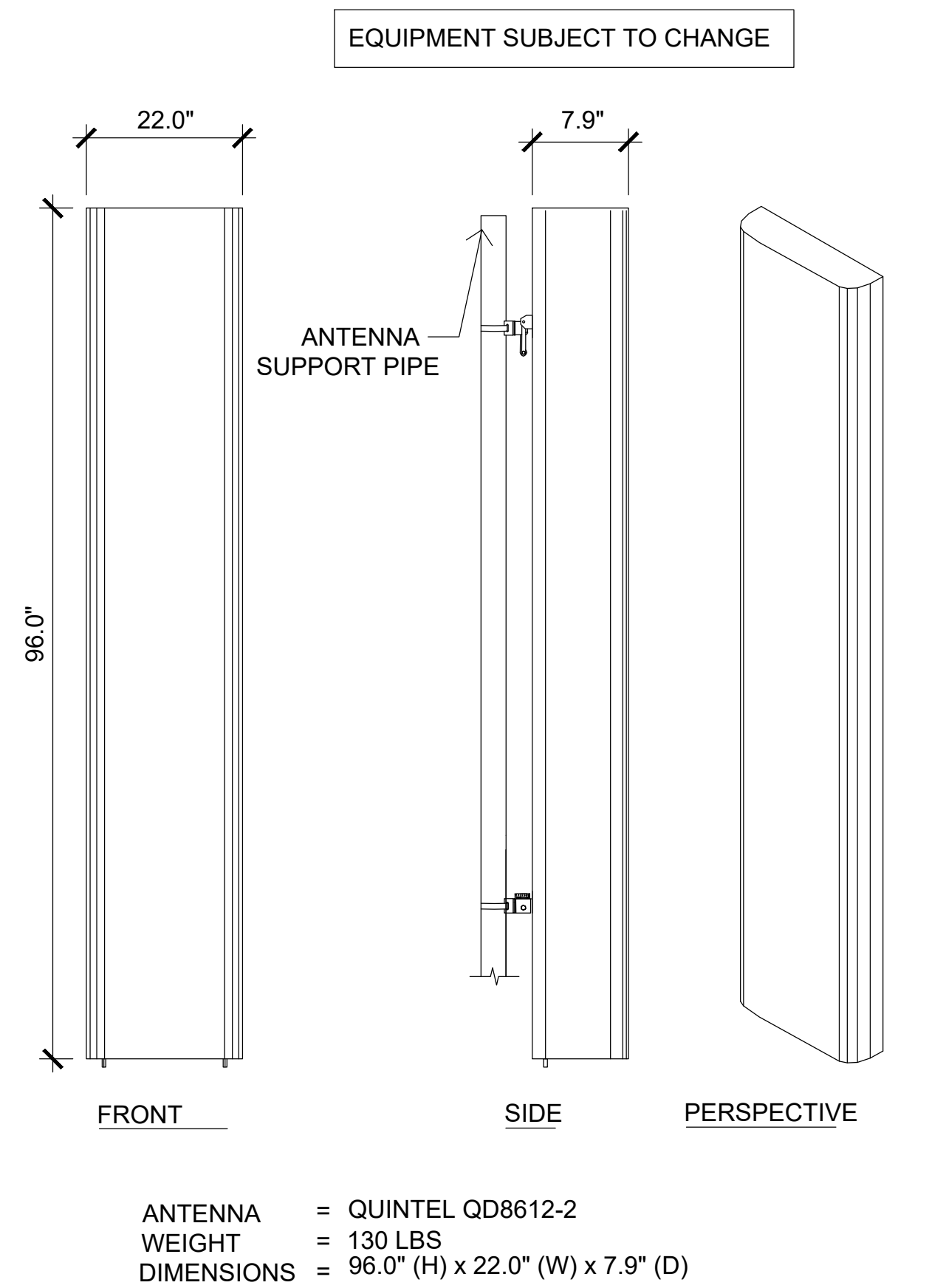
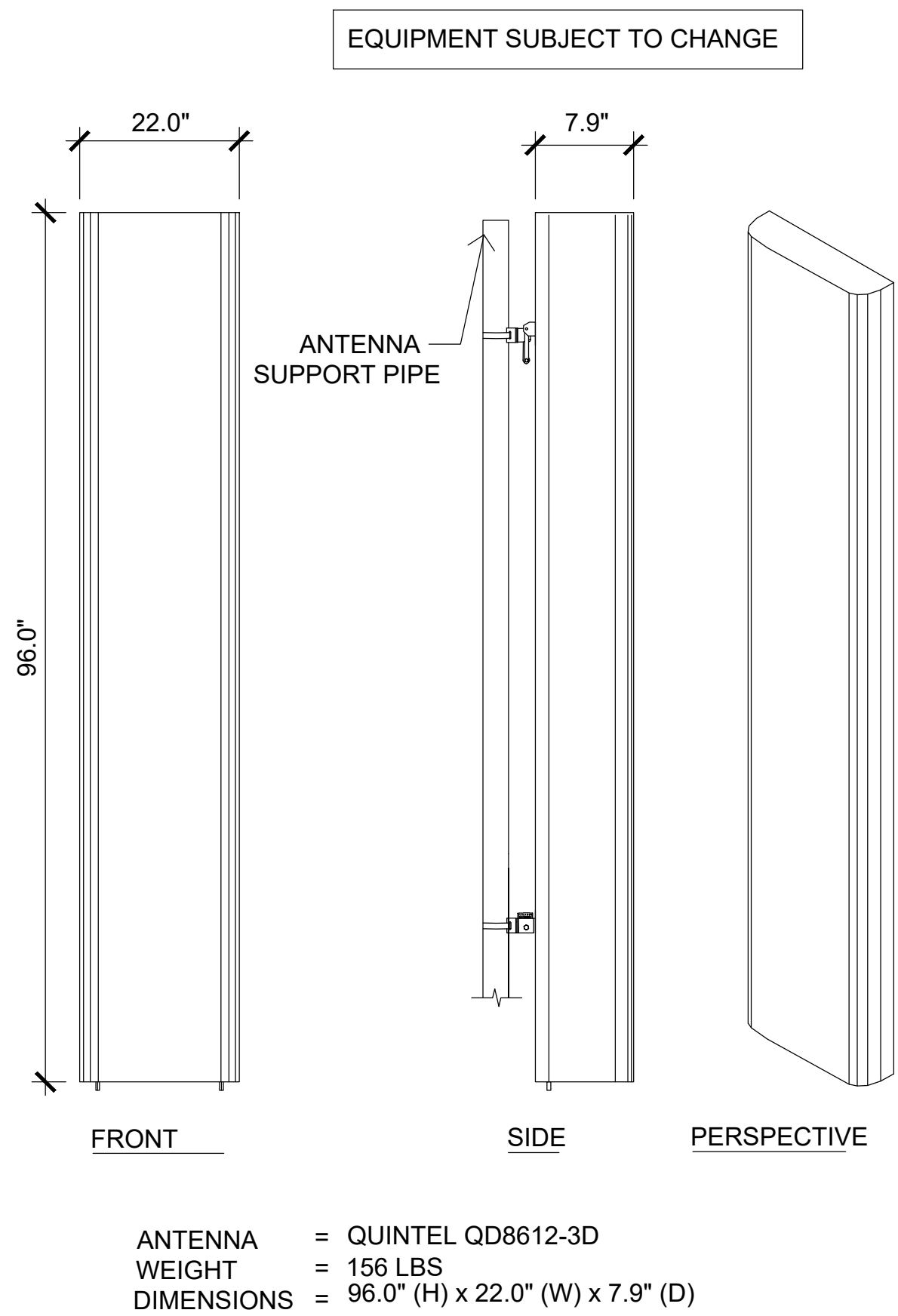
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EQUIPMENT AREA PLAN

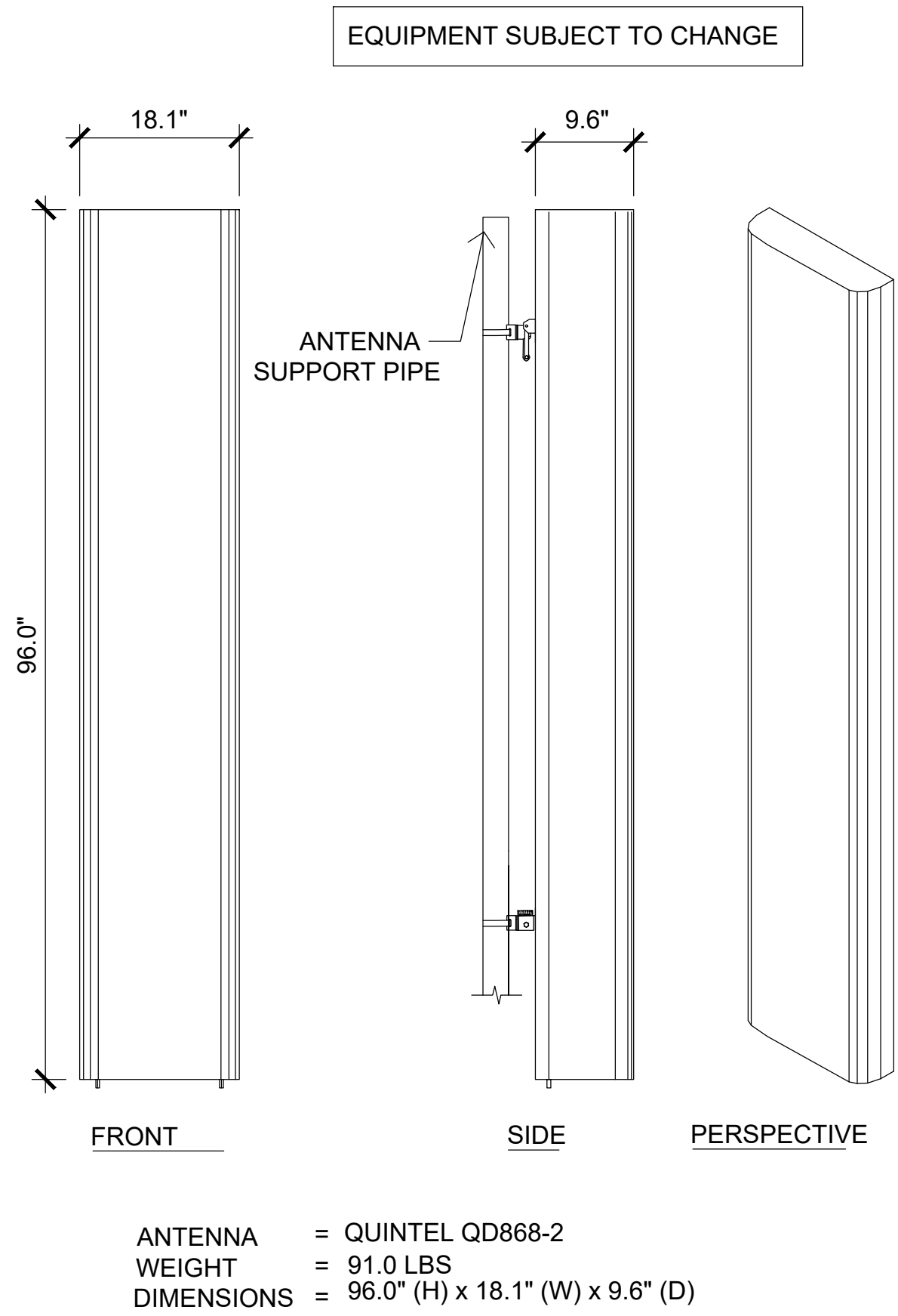
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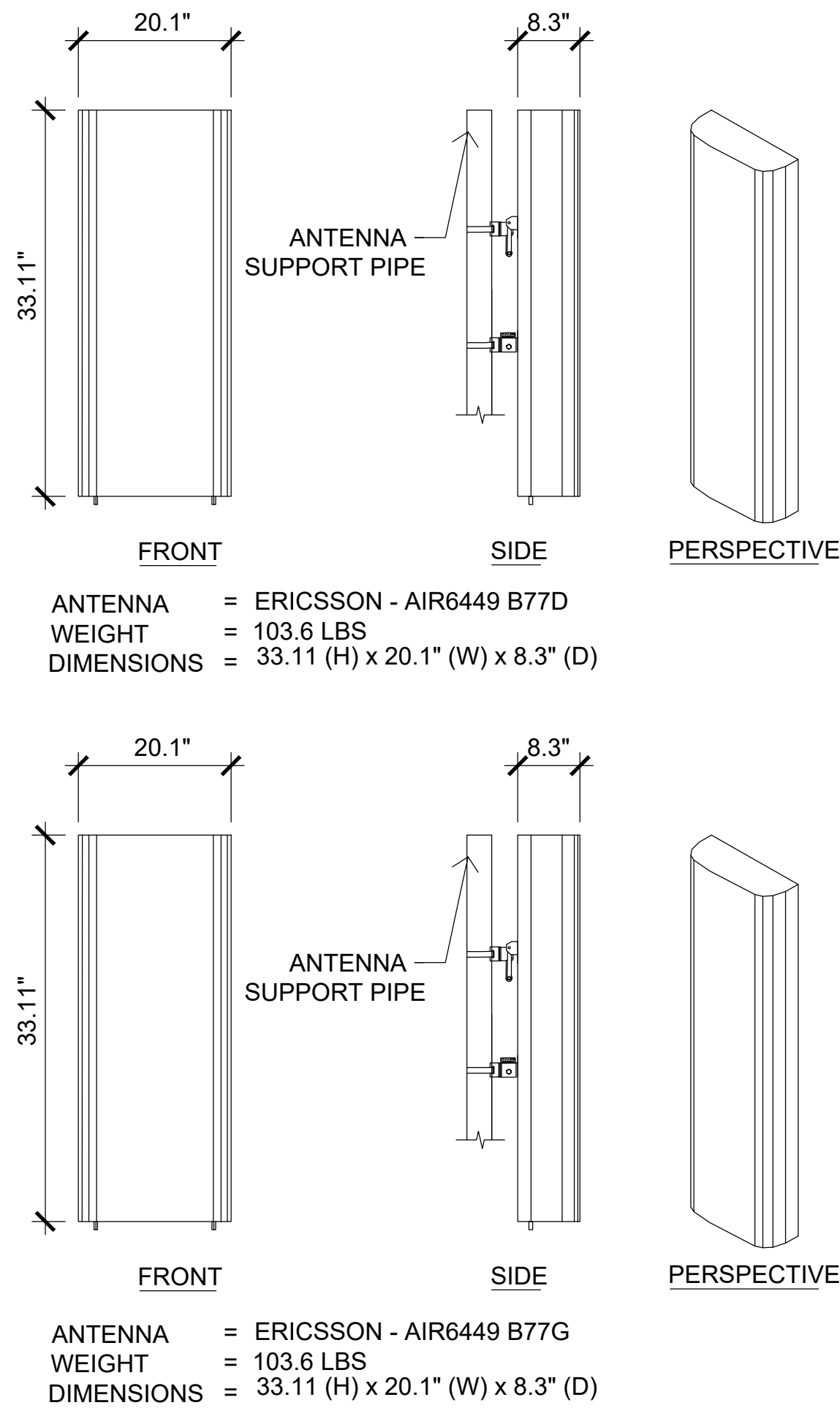


5 PROPOSED ANTENNA SPEC
NOT TO SCALE



6 PROPOSED ANTENNA SPEC
NOT TO SCALE

4 PROPOSED ANTENNA SPEC
NOT TO SCALE



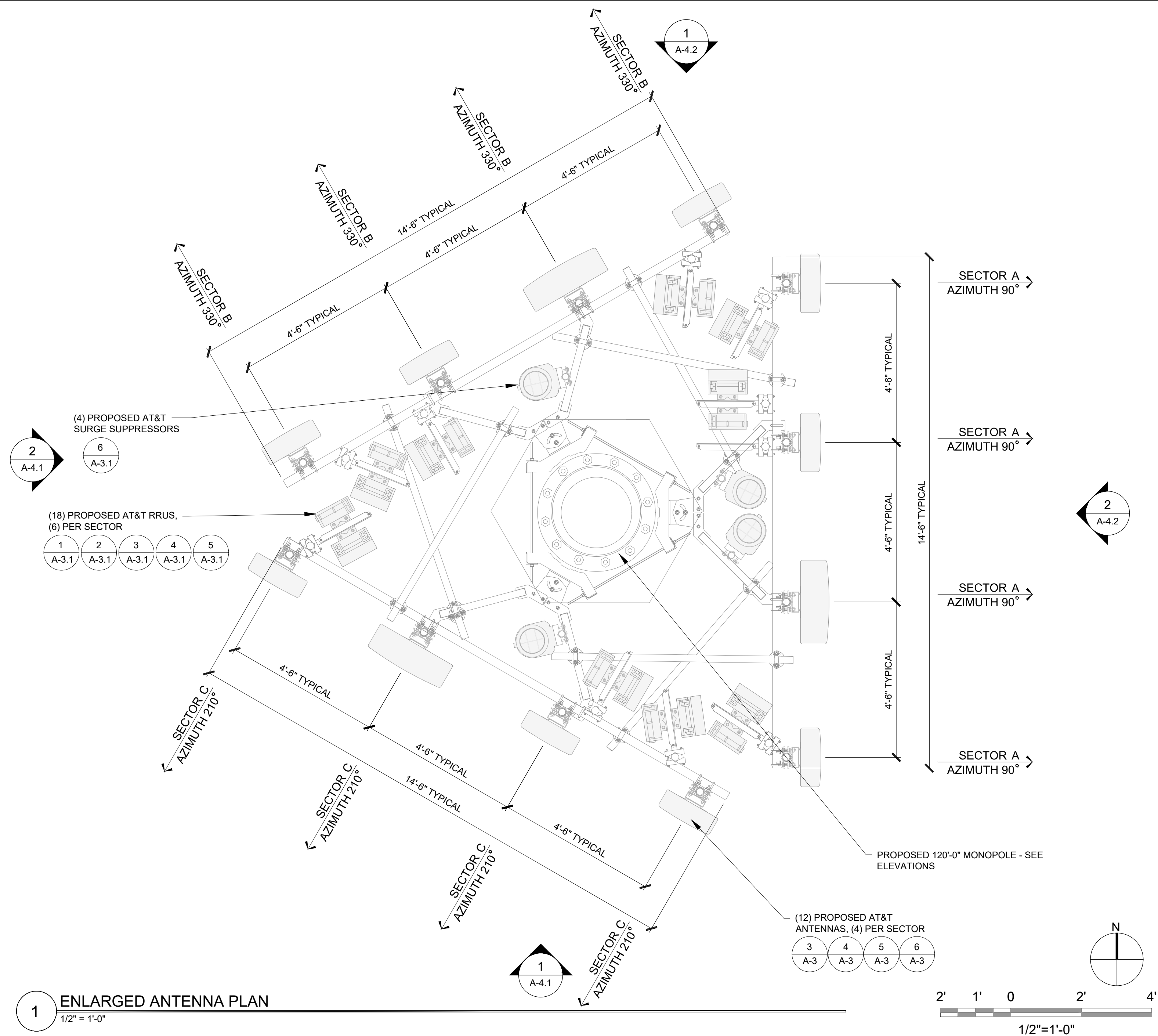
3 PROPOSED ANTENNA SPEC
NOT TO SCALE

RF SCHEDULE										
SECTOR		ANTENNA MODEL NO.	AZIMUTH	CENTERLINE	RRH	TMA	FIBER LENGTH	COAX LENGTH	JUMPER TYPE	RRU NO.
A L P H A	A1	QUINTEL QD8612-3D	90°	± 121'-0"	(1) 4449 B5/B12 / (1) 8843 B2/B66	-	± 145'-0"	-	LDF4	(2)
	A2	ERICSSON - AIR 6449 B77D +AIR 6419 B77G STACKED	90°	± 122'-6", ±118'-6"	INTEGRATED	-	± 145'-0"	-	-	-
	A3	QUINTEL QD8612-2	90°	± 121'-0"	(1) 4478 B14 / (1) 8843 B2/B66A	-	± 145'-0"	-	LDF4	(2)
	A4	QUINTEL QD868-2	90°	± 121'-0"	(1) 2012 B29 / (1) 4415 B30	-	-	-	LDF4	(2)
B E T A	B1	QUINTEL - QD8612-3D	330°	± 121'-0"	(1) 4449 B5/B12 / (1) 8843 B2/B66	-	± 145'-0"	-	LDF4	(2)
	B2	ERICSSON - AIR 6449 B77D +AIR 6419 B77G STACKED	330°	± 122'-6", ±118'-6"	INTEGRATED	-	± 145'-0"	-	-	-
	B3	QUINTEL - QD8612-2	330°	± 121'-0"	(1) 4478 B14 / (1) 8843 B2/B66A	-	± 145'-0"	-	LDF4	(2)
	B4	QUINTEL QD868-2	330°	± 121'-0"	(1) 2012 B29 / (1) 4415 B30	-	-	-	LDF4	(2)
G A M M A	C1	QUINTEL - QD8612-3D	210°	± 121'-0"	(1) 4449 B5/B12 / (1) 8843 B2/B66	-	± 145'-0"	-	LDF4	(2)
	C2	ERICSSON - AIR 6449 B77D +AIR 6419 B77G STACKED	210°	± 122'-6", ±118'-6"	INTEGRATED	-	± 145'-0"	-	-	-
	C3	QUINTEL - QD8612-2	210°	± 121'-0"	(1) 4478 B14 / (1) 8843 B2/B66A	-	± 145'-0"	-	LDF4	(2)
	C4	QUINTEL QD868-2	210°	± 121'-0"	(1) 2012 B29 / (1) 4415 B30	-	-	-	LDF4	(2)

2 RF SCHEDULE
NO SCALE

RF DATA SHEET 1, v1.00 DATED 02/15/2022

NOTE: ANTENNA POSITIONS ARE LEFT TO RIGHT FROM FRONT OF ANTENNA
EQUIPMENT IS PRELIMINARY AND SUBJECT TO CHANGE.



Issued For:

CVL01180

DENAIR

3140 NORTH GRATTON ROAD
DENAIR, CA 95316
FA# 15541189
USID# 315889

Prepared For:



Vendor:



AT&T SITE NO: CVL01180
PROJECT NO: 22-003
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CHECKED BY: BW

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Designer / Engineer:



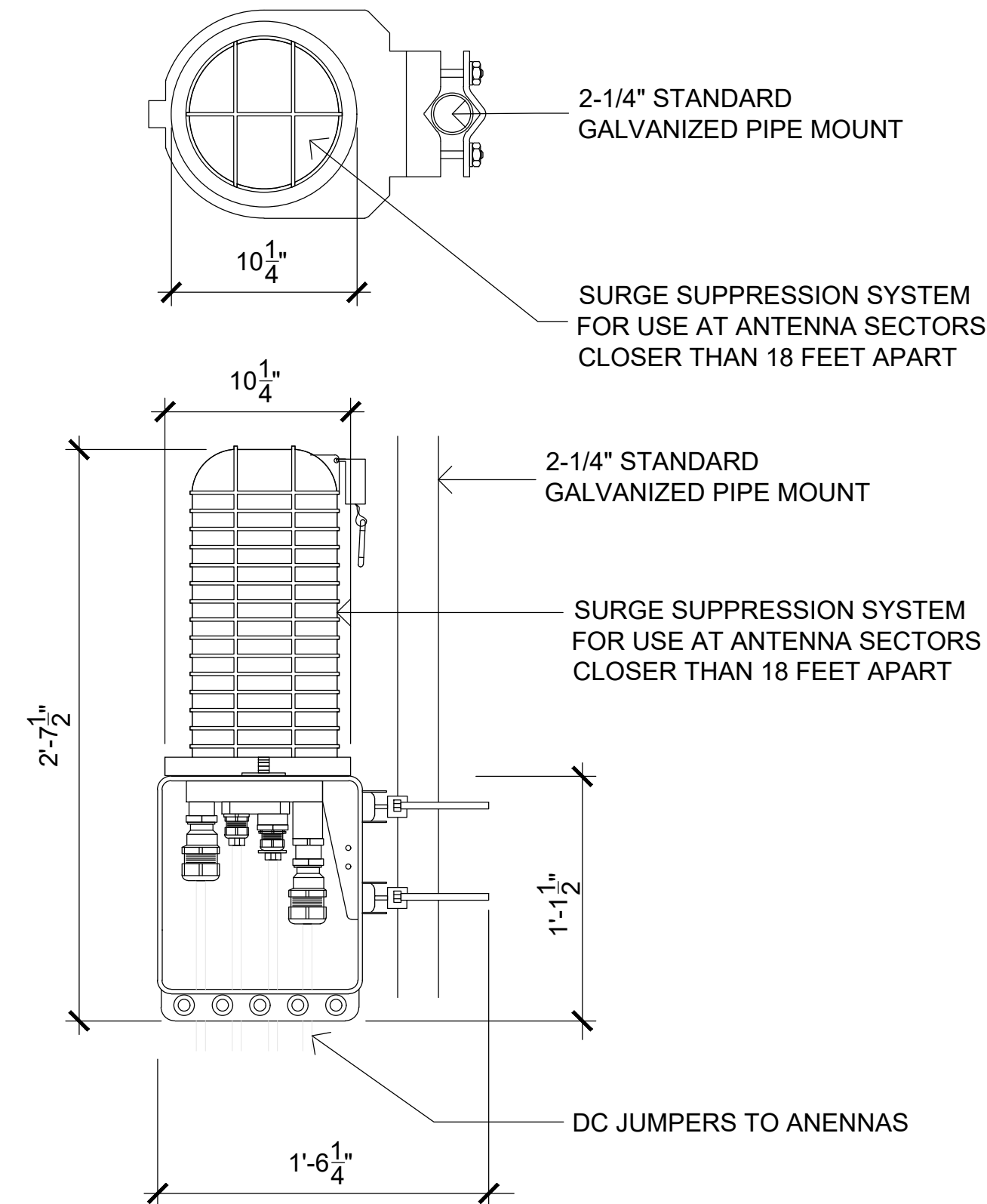
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ANTENNA PLAN,
SCHEDULE &
DETAILS

Sheet Number:

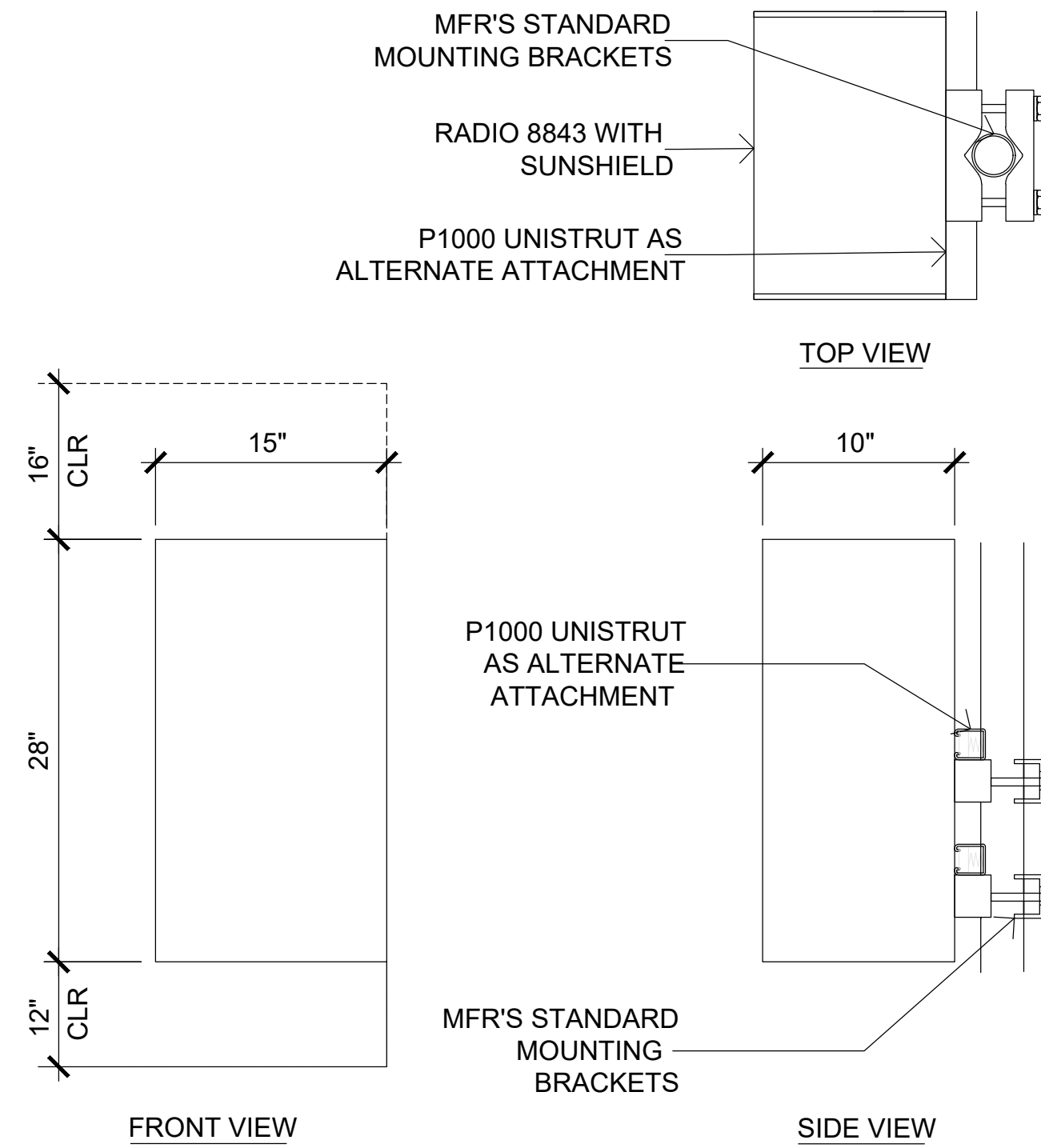
A-3

COLOR:	BLACK/SILVER
DIMENSIONS:	10.25" DIA X 2'-7.5" TALL W/ 1'-1.5' BASE
WEIGHT:	26.2 LBS.±



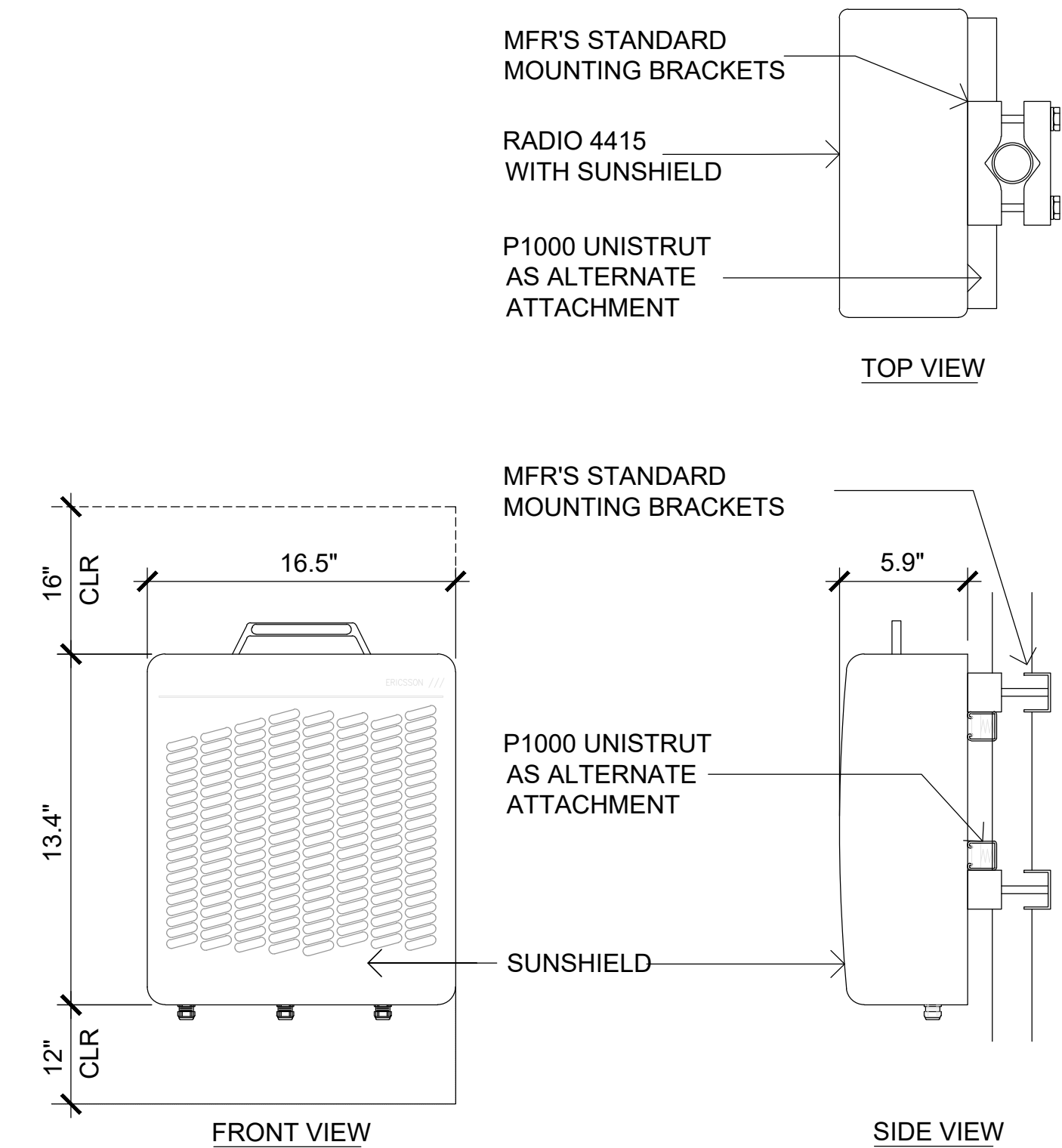
6 $1-1/2'' = 1'-0''$

COLOR:	WHITE
DIMENSIONS:	28" TALL X 15" WIDE X 10" DEEP (INCLUDING SUNSHIELD)
WEIGHT:	85 LBS.± (INCLUDING MOUNTING HARDWARE)

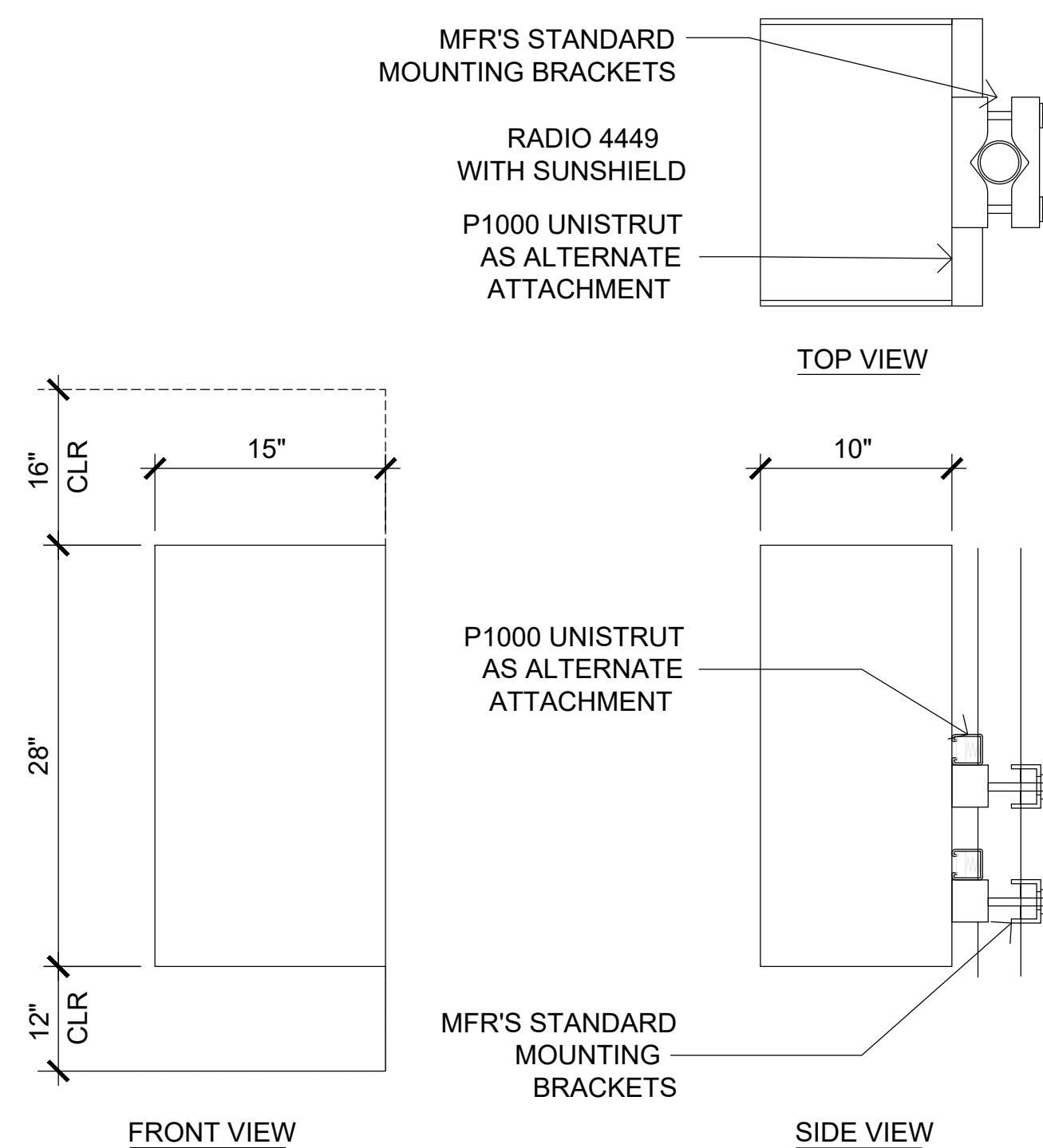


4 $1-1/2'' = 1'-0''$

COLOR:	WHITE
DIMENSIONS:	16.5" TALL X 13.4" WIDE X 5.9" DEEP (INCLUDING SUNSHIELD)
WEIGHT:	46 LBS.± (INCLUDING MOUNTING HARDWARE)

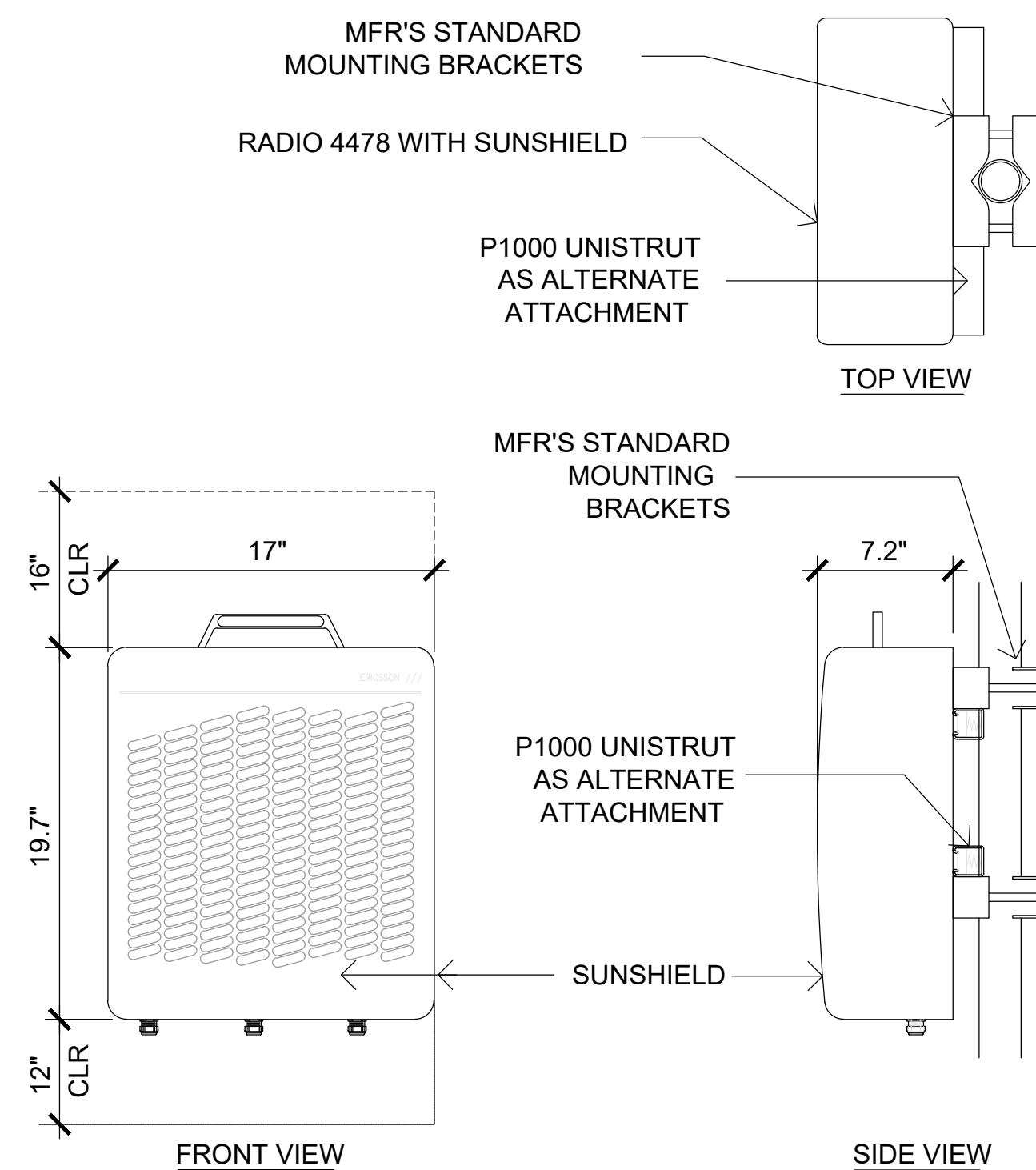

$$1-1/2" = 1'-0"$$

COLOR:	WHITE
DIMENSIONS:	28" TALL X 15" WIDE X 10" DEEP (INCLUDING SUNSHIELD)
WEIGHT:	85 LBS± (INCLUDING MOUNTING HARDWARE)

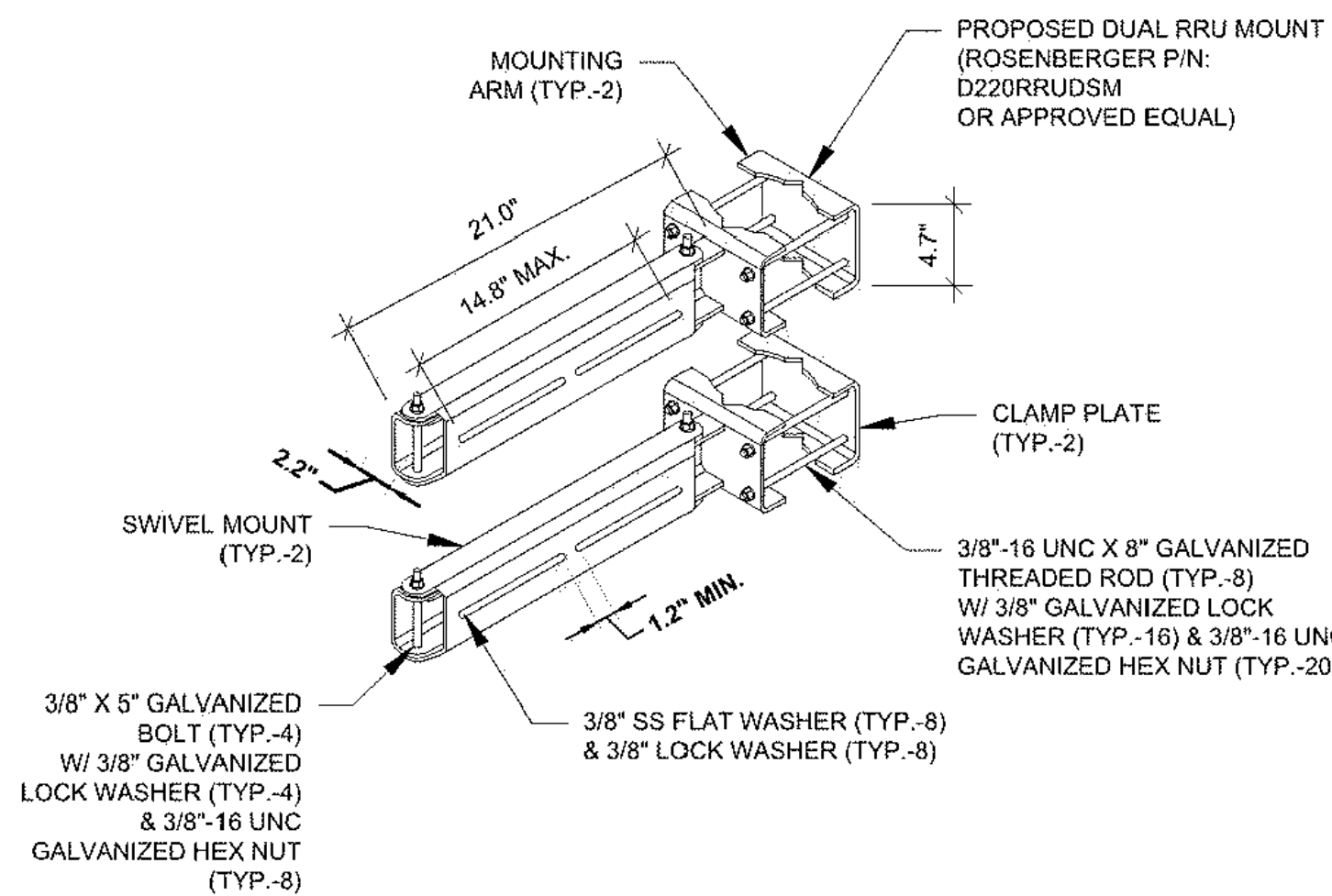


1-1/2"= 1'-0"

COLOR:	WHITE
DIMENSIONS:	19.7" TALL X 17" WIDE X 7.2" DEEP (INCLUDING SUNSHIELD)
WEIGHT:	+/- 50 LBS. (INCLUDING MOUNTING HARDWARE)





3) $1-1/2'' = 1'-0''$


$$1 - 1/2" = 1' - 0"$$

A-3.1

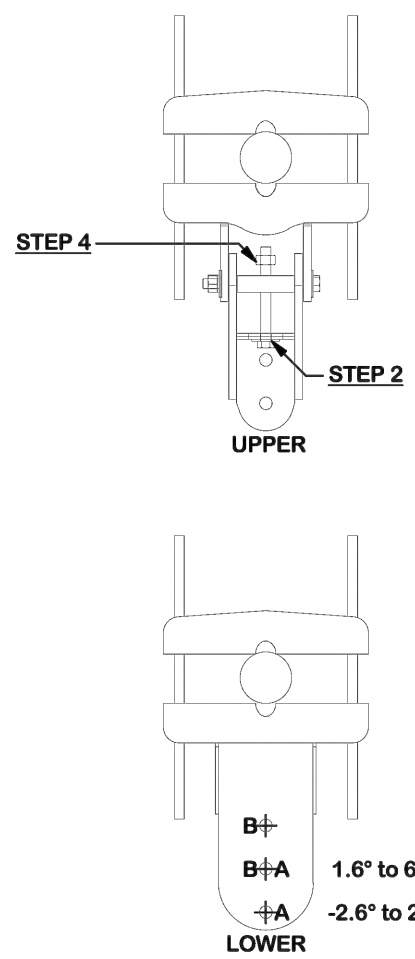


	Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
		

 <p>Engineering Support Team: 1-888-753-7446</p> <p>A valmont  COMPANY</p>	<p>Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX</p>
	<p>PART NO.</p> <p>VFA14-WLL-30120</p>
<p>WG. NO.</p> <p>VFA14-WLL-30120</p>	<p>PAGE 2 OF 5</p>



1. MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
 - HOLE A = -2.6° TO 2.6°
 - HOLE B = 1.6° TO 6.8°
2. USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
3. TORQUE LOCKING BOLTS TO 100 ft.-lbs.
4. ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.



	<p>Engineering Support Team: 1-888-753-7446</p>	<p>Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX</p>
<p>A valmont  COMPANY</p>		
<p>ART NO.</p>	<p>VFA14-WLL-30120</p>	
<p>WG. NO.</p>	<p>VFA14-WLL-30120</p>	

 <p>Engineering Support Team: 1-888-753-7446</p> <p>A valmont  COMPANY</p>	<p>Location: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX</p>
	<p>PART NO.</p> <p>VFA14-WLL-30120</p> <p>WG. NO.</p> <p>VFA14-WLL-30120</p>

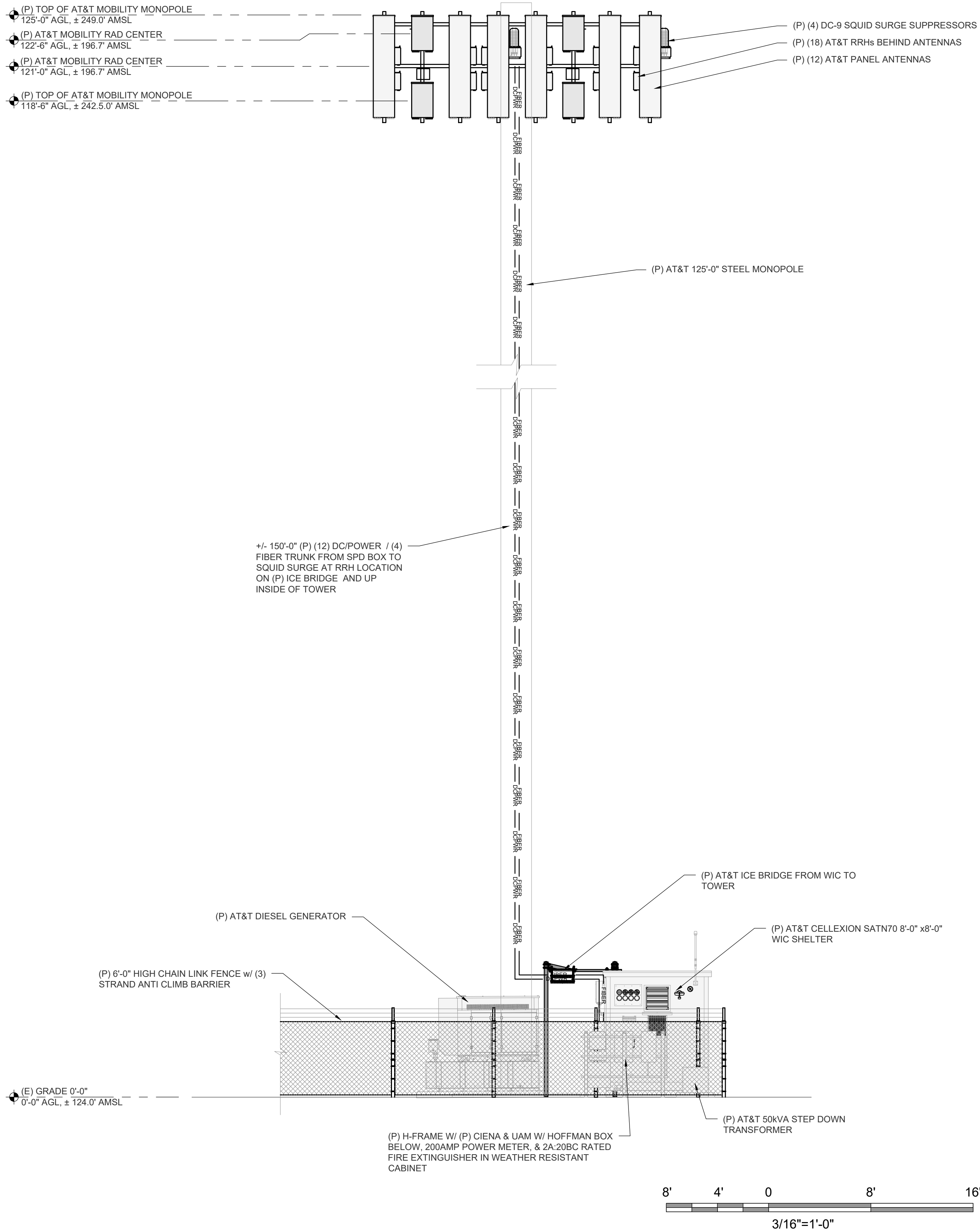
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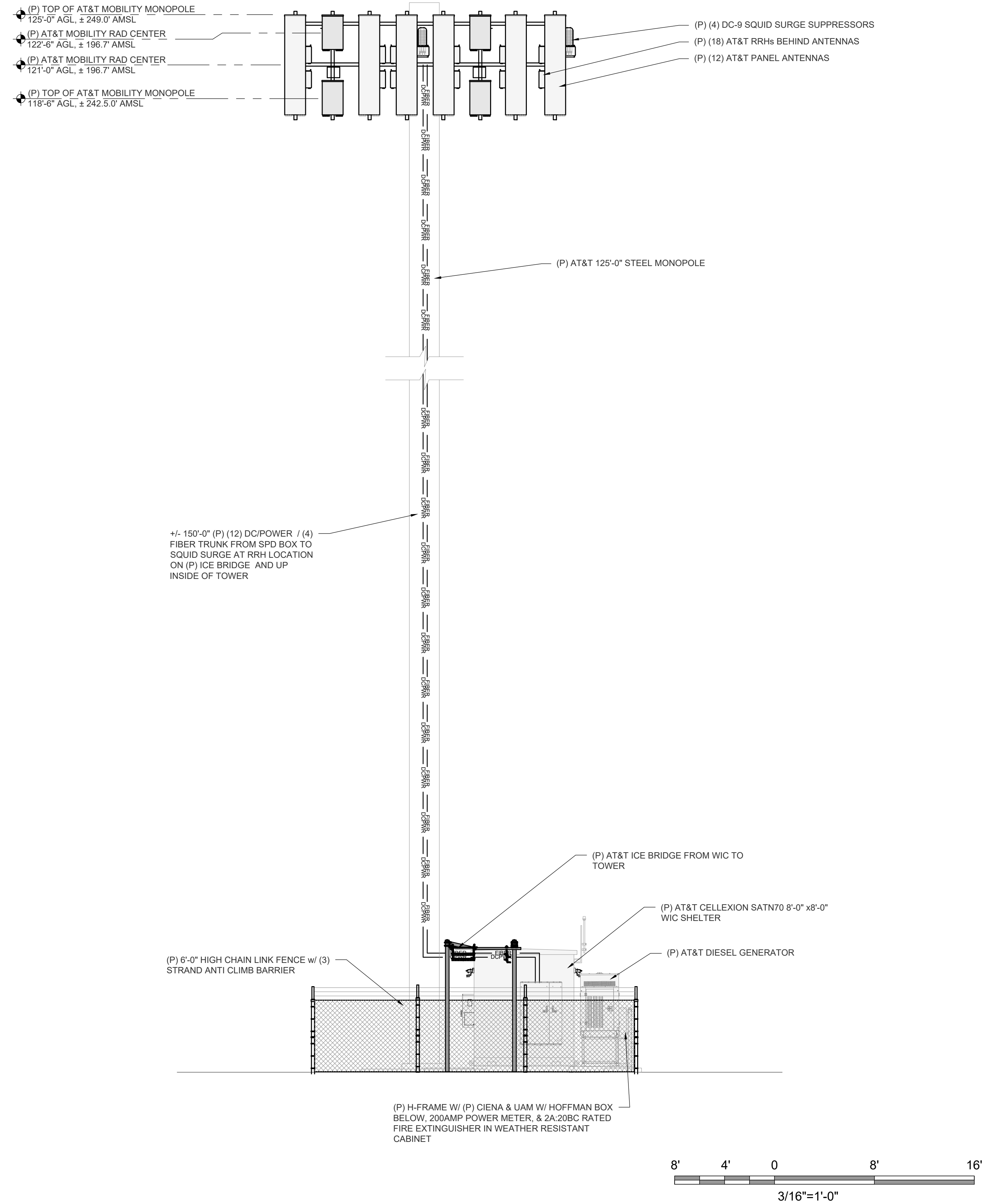
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A	2/25/2022	90% ZD SUB.
REV	DATE	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER
NORMAN J. SCHEL
No. 2567
Exp. 12-31-23
* STRUCTURAL *
STATE OF CALIFORNIA

A-3.2



1 SOUTH ELEVATION
3/16" = 1'-0"



2 WEST ELEVATION
3/16" = 1'-0"

Issued For:

CVL01180

DENAIR

3140 NORTH GRATTON ROAD
DENAIR, CA 95316
FA# 15541189
USID# 315889

Prepared For:



Vendor:



AT&T SITE NO: **CVL01180**

PROJECT NO: 22-003

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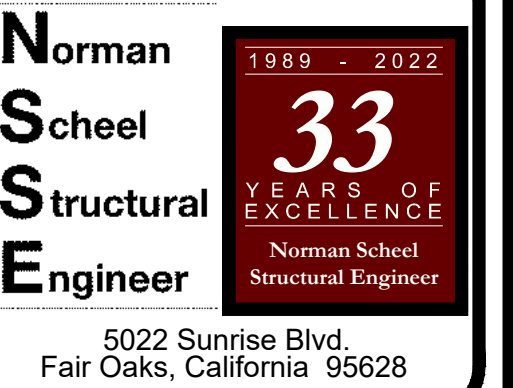
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REV	DATE	DESCRIPTION

Licensee:



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Designer / Engineer:

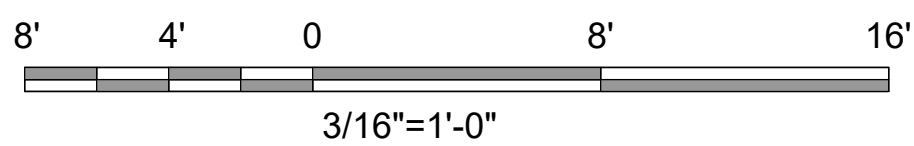
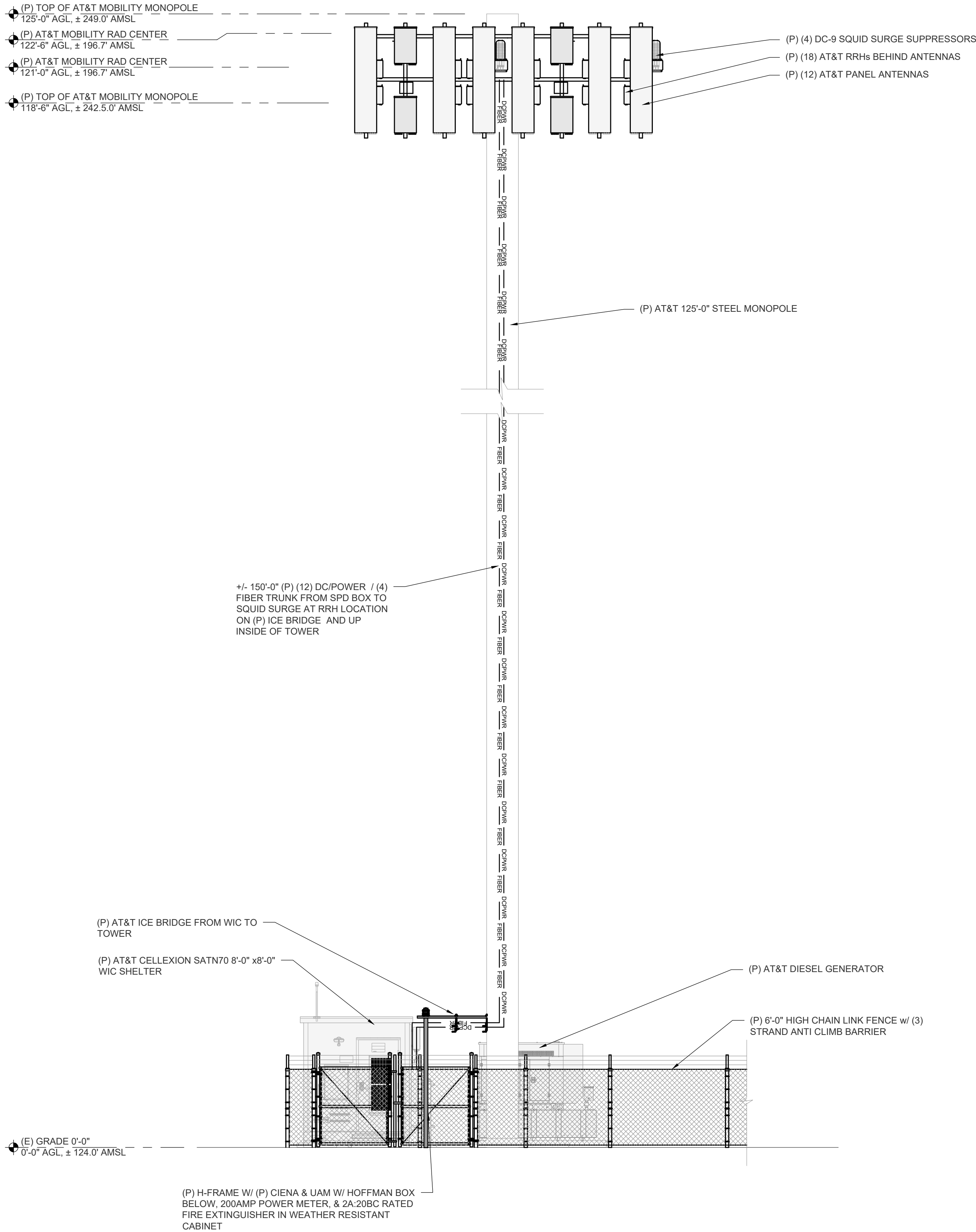


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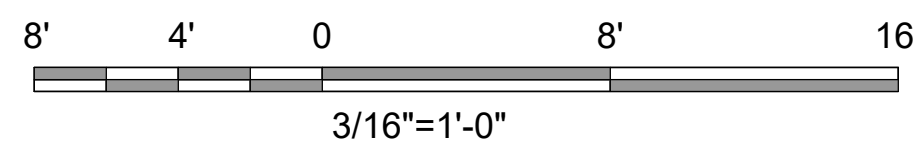
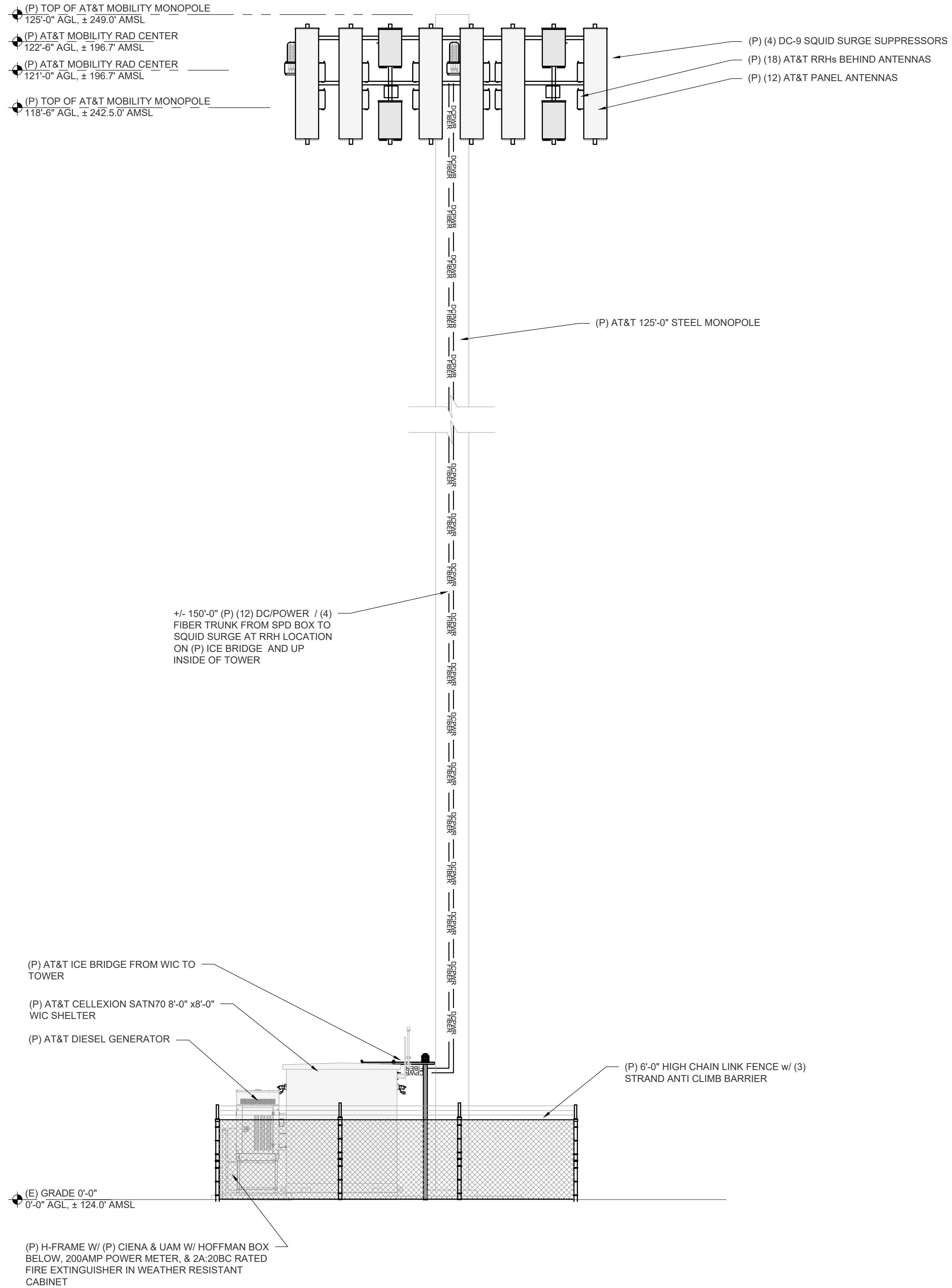
PROPOSED ELEVATIONS

Sheet Number:

A-4.1



1 NORTH ELEVATION
3/16" = 1'-0"



2 EAST ELEVATION
3/16" = 1'-0"

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3140 NORTH GRATTON ROAD
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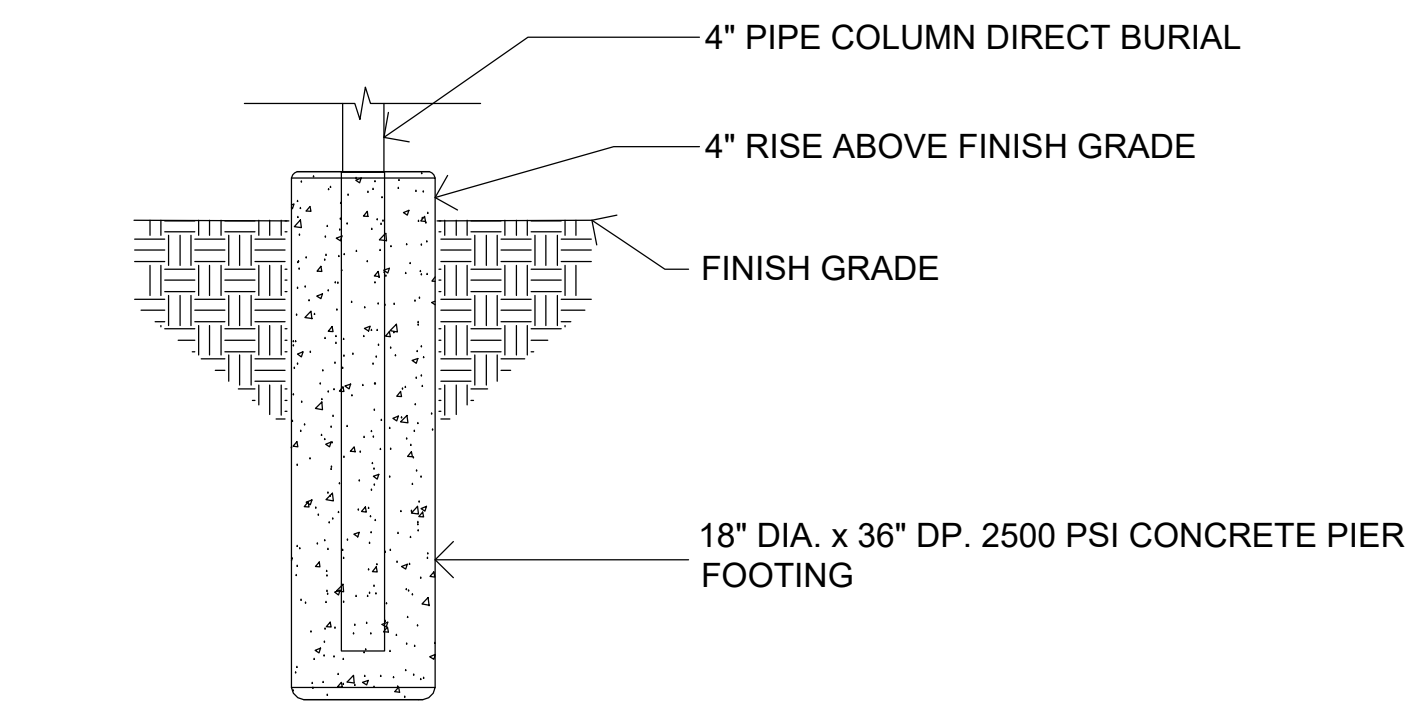
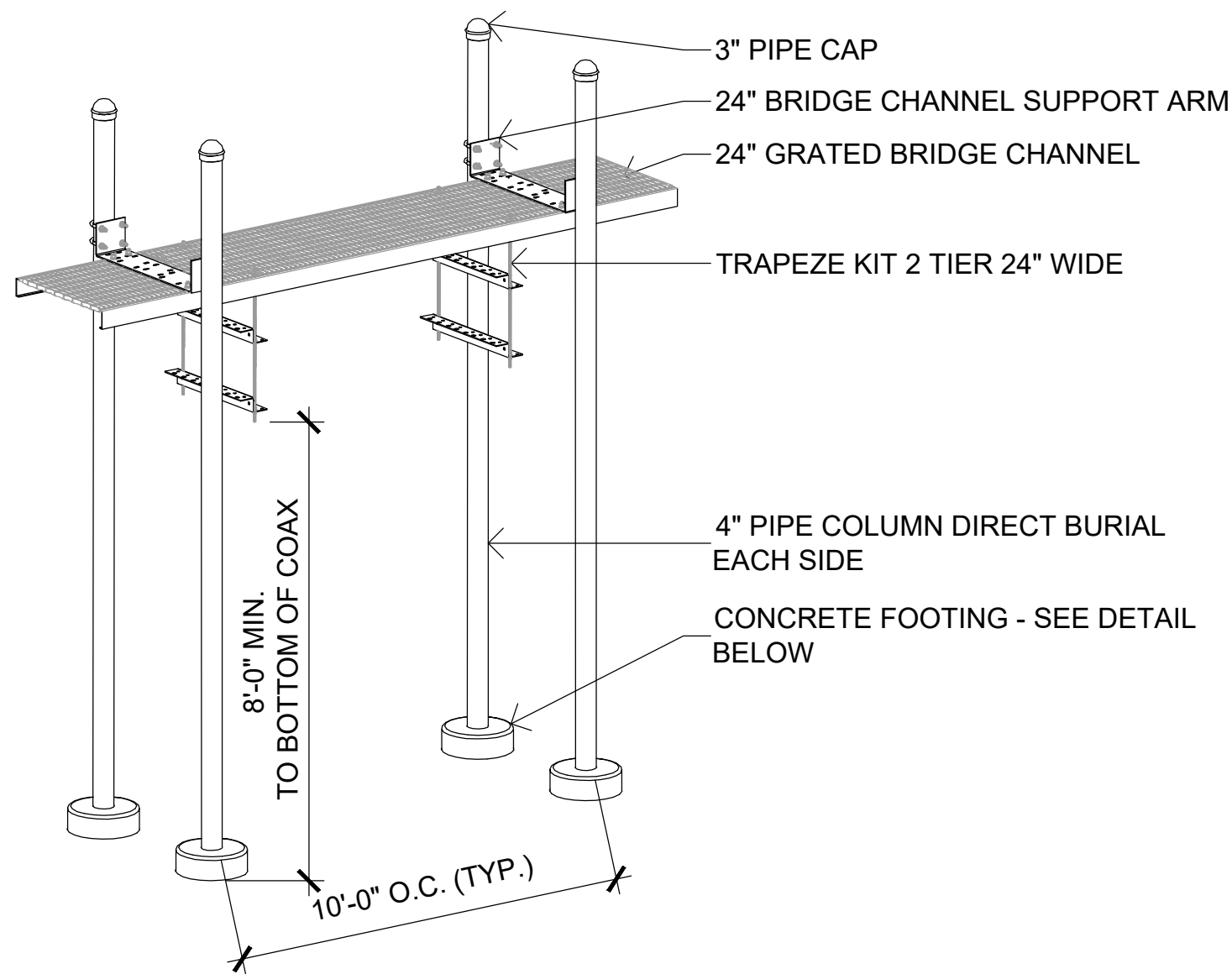


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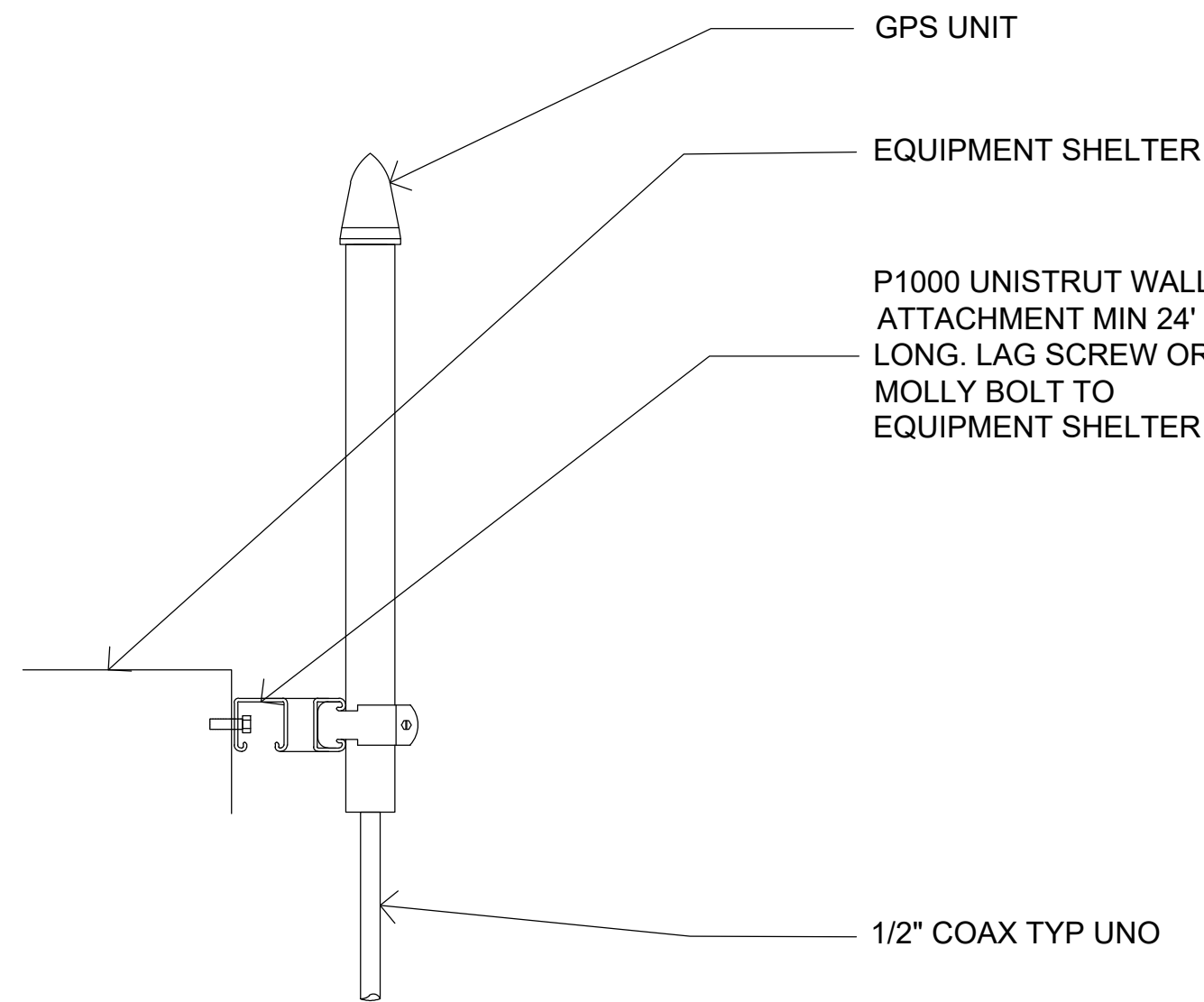
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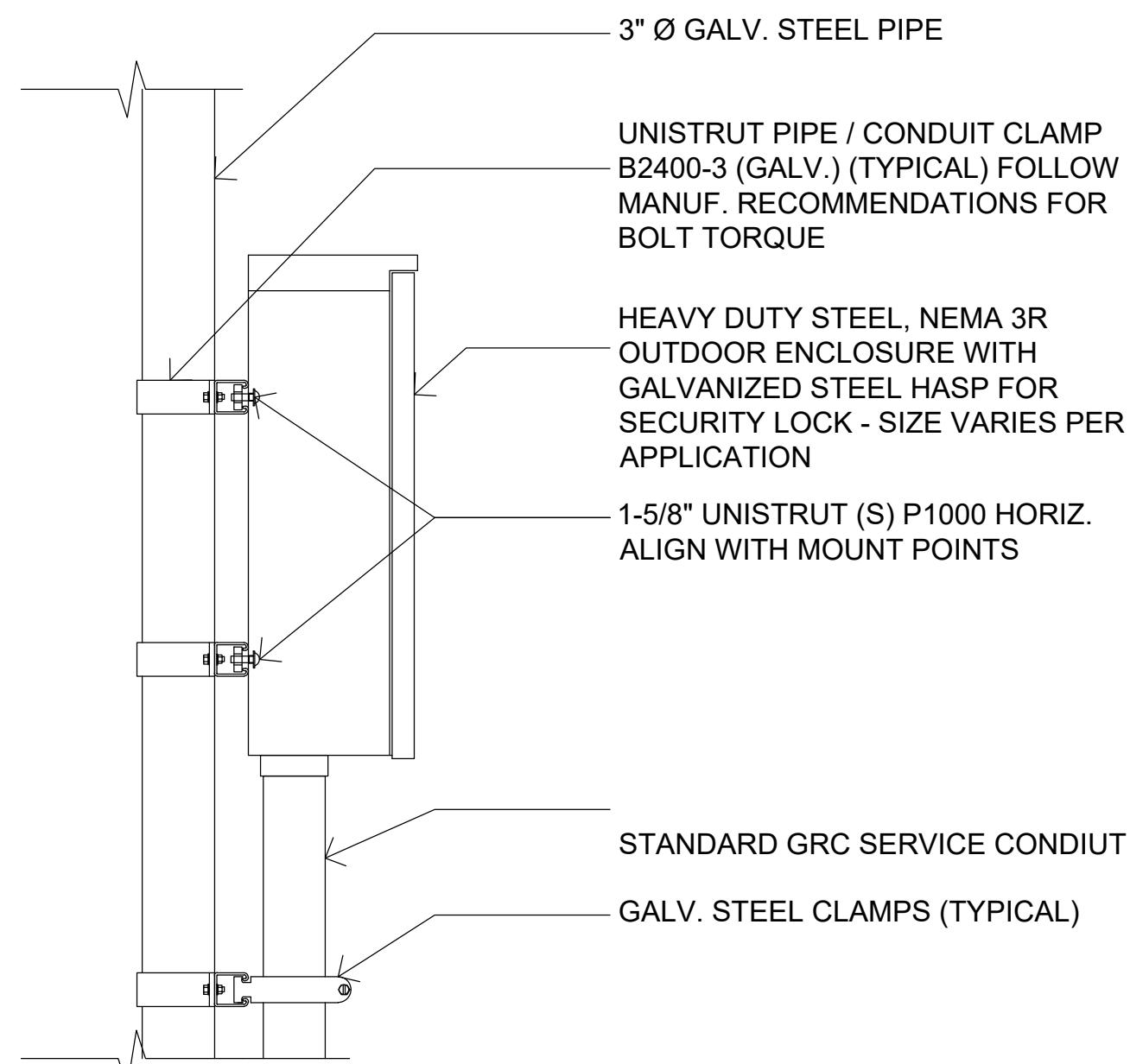
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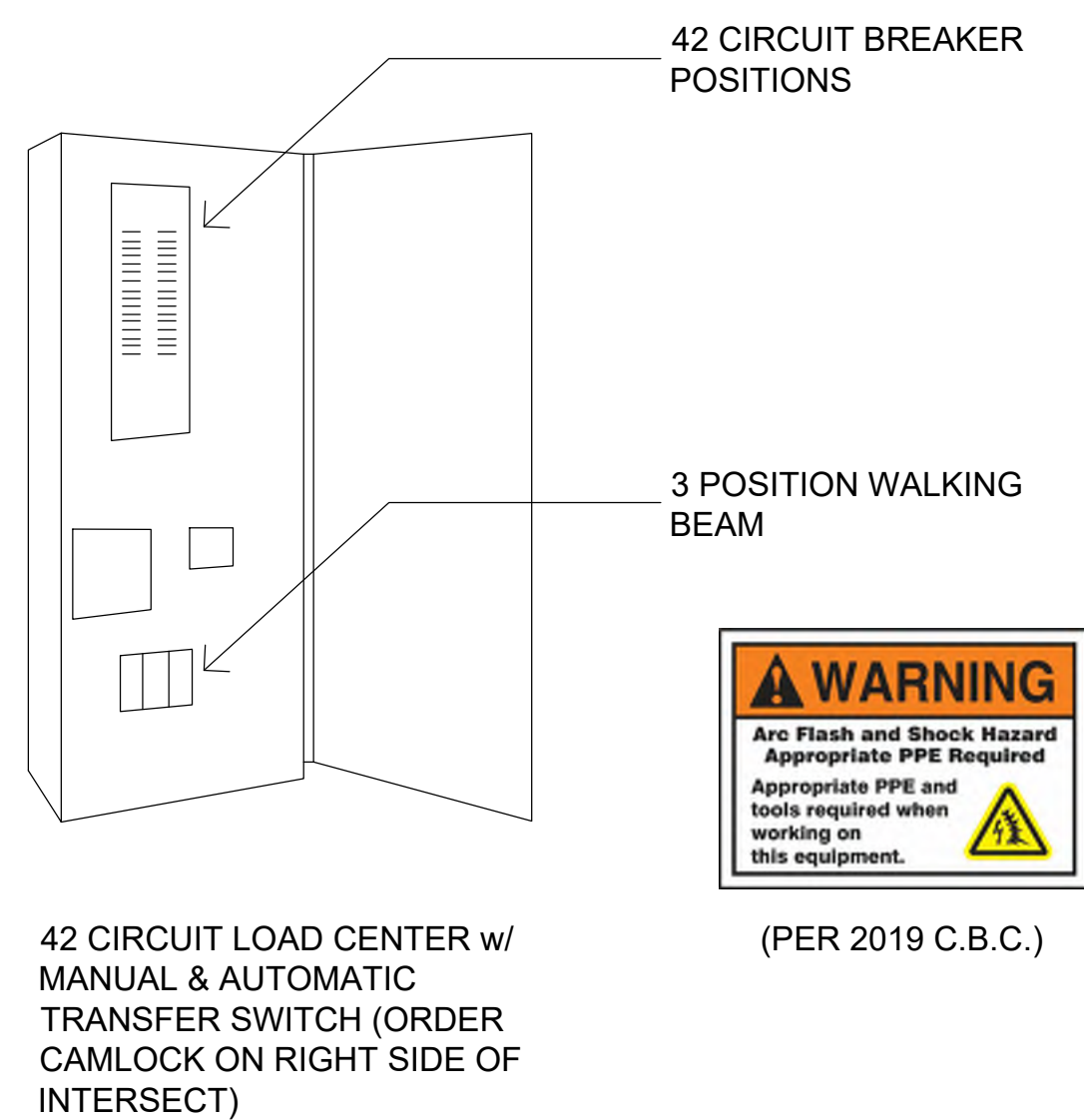
8 ICE BRIDGE DETAIL
NO SCALE



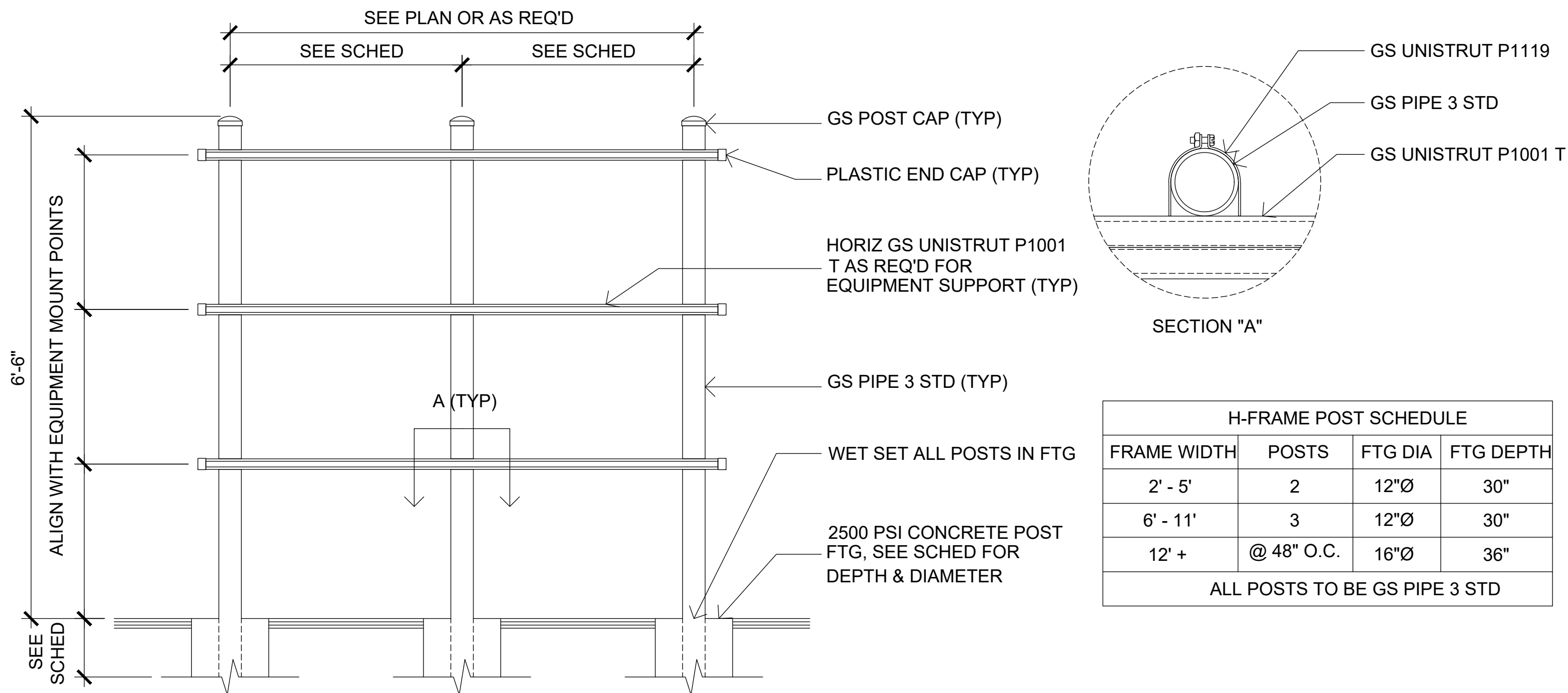
7 GPS MOUNTING DETAIL
NOT TO SCALE



6 UTILITY BOX MOUNTING DETAIL
1-1/2" = 1'-0"



3 INTERSECT PTLC-ATS-3S-12200
INTERGRATED LOAD CENTER
NOT TO SCALE



5 TYPICAL EQUIPMENT H-FRAME
3/4" = 1'-0"

Issued For:

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DENAIR

3140 NORTH GRATTON ROAD
DENAIR, CA 95316
FA# 15541189
USID# 315889

Prepared For:

5001 Executive Parkway
San Ramon, California 94583

Vendor:

605 Coolidge Drive, Suite 100
Folsom, California 95630

AT&T SITE NO: **CVL01180**

PROJECT NO: 22-003

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REV	DATE	DESCRIPTION

Licensee:

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Designer / Engineer:

5022 Sunrise Blvd.
Fair Oaks, California 95628

Sheet Title:

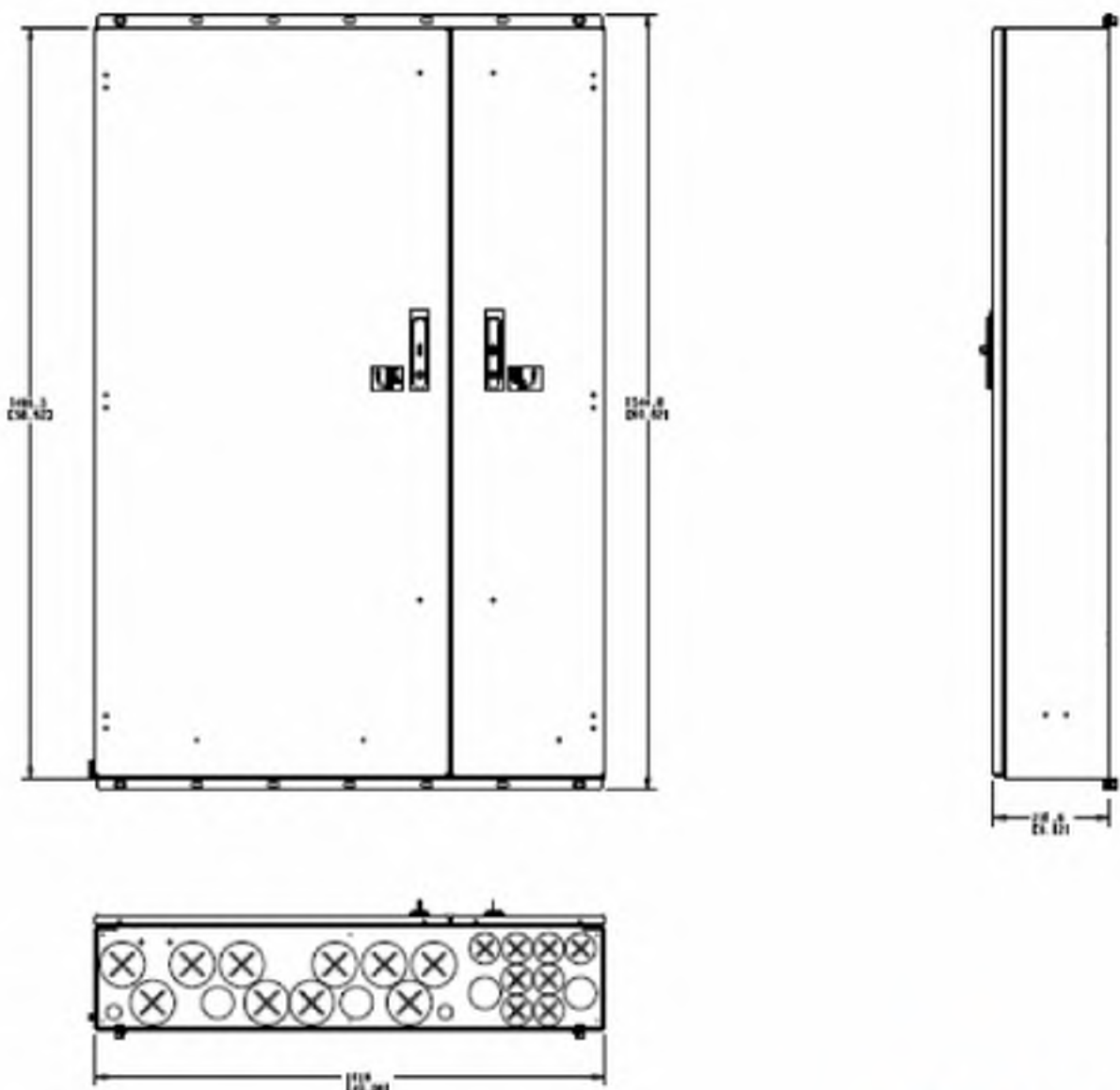
**CONSTRUCTION
DETAILS -
EQUIPMENT**

Sheet Number:

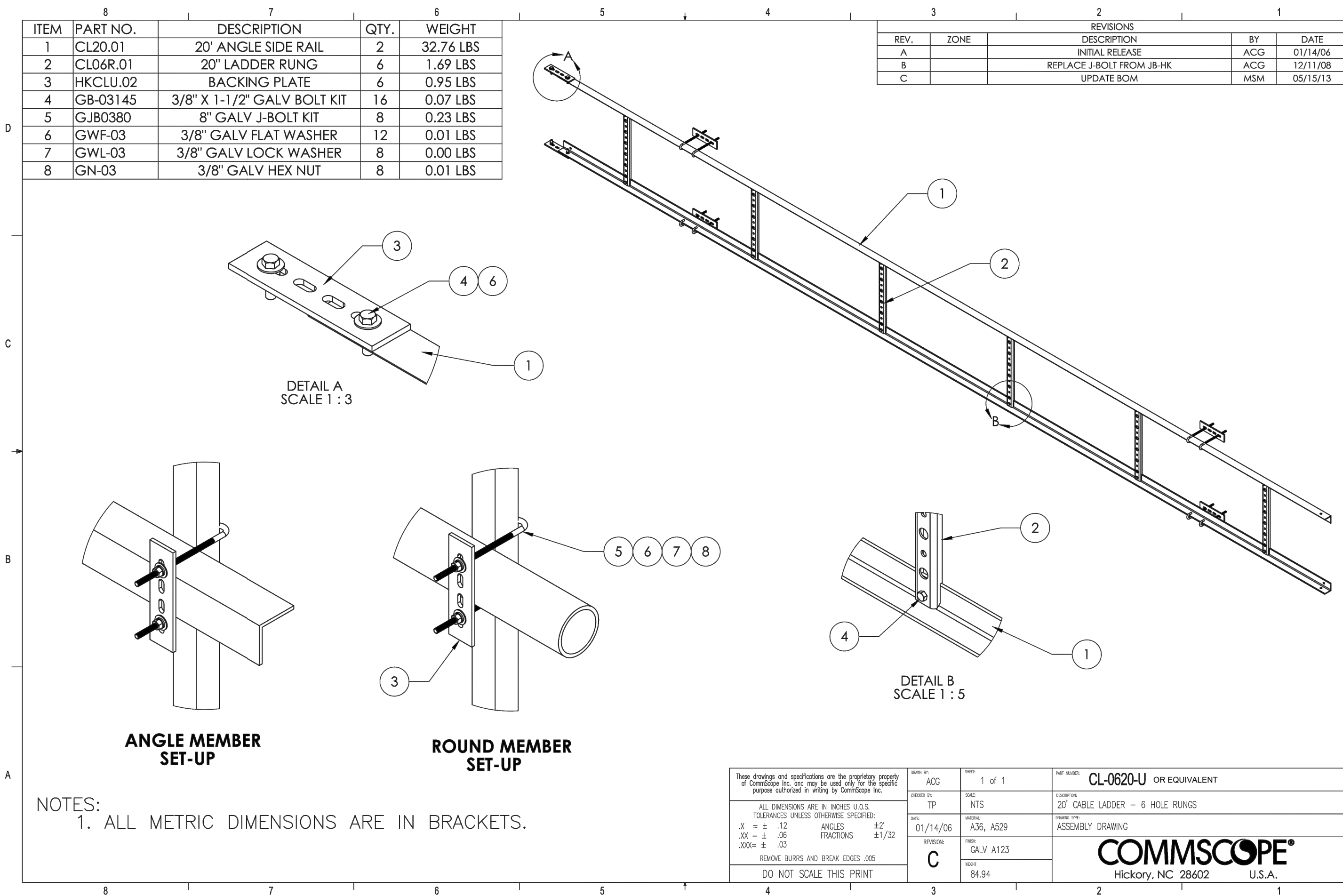
A-5

SPD Box Overview

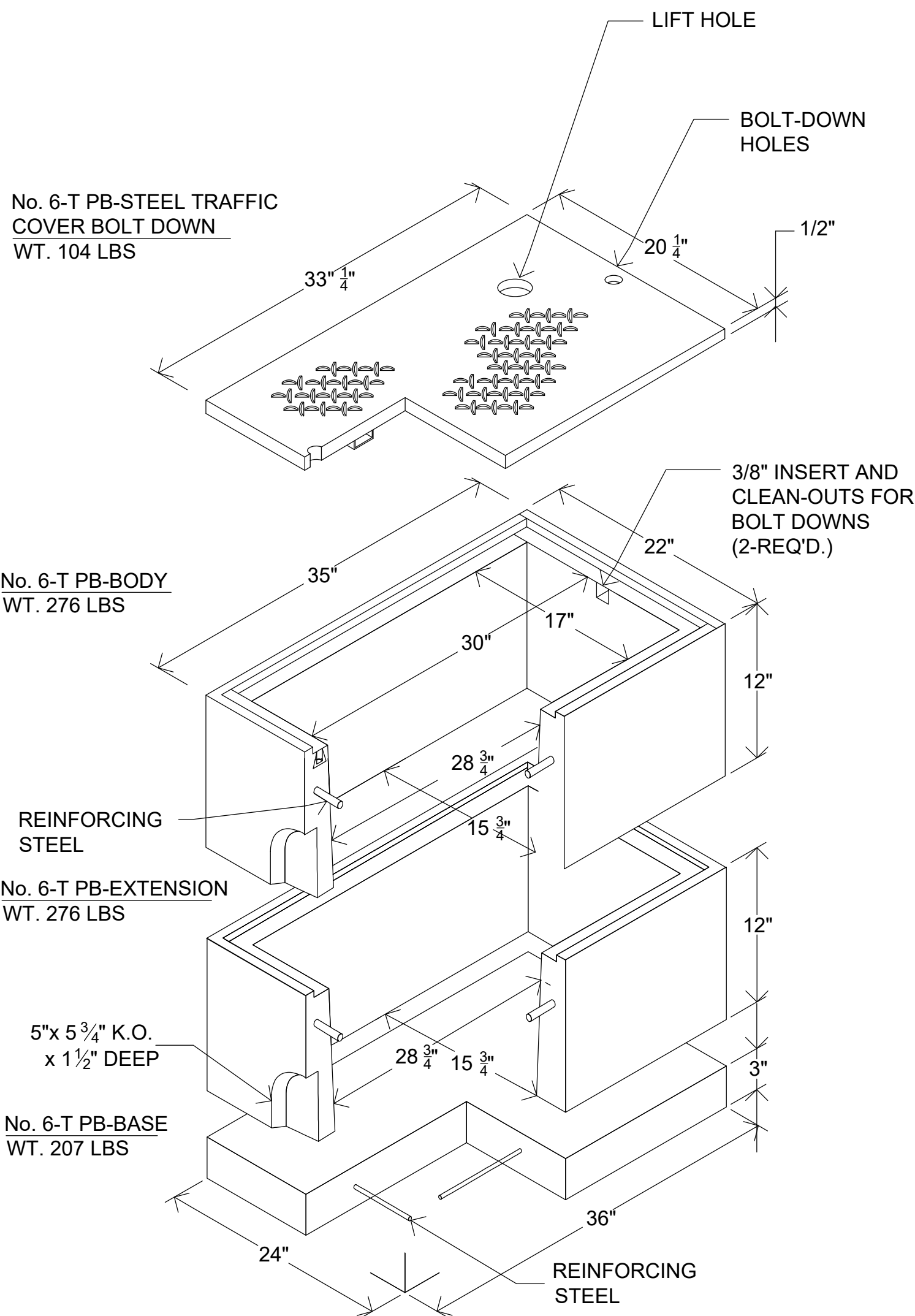
- Total 3 Chambers: Wet Chamber, DC Power, Fiber Termination
- 60"H x 40"W x 9"D
- Two-door configuration
- Fiber trunk cable entry via grommets in bottom chamber
- 2" trade size KO's for power and fiber cables
- Wet Chamber to prevent water/moisture entering the main chamber
- Power section
 - Includes 2 x 26-position DC circuit breaker panels
 - Input voltage -48VDC or -58VDC
 - 2 x DC surge protection devices
- Fiber section
 - 48 LC Duplex Fiber Ports
 - Spool for fiber slack storage



6 SPD BOX
1/4" = 1'-0"



5 CABLE LADDER
1/4" = 1'-0"



4 17"x30" TRAFFIC RATED PULLBOX
1/4" = 1'-0"

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Prepared For:



5001 Executive Parkway
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605 Coolidge Drive, Suite 100
Folsom, California 95630

AT&T SITE NO: CVL01180

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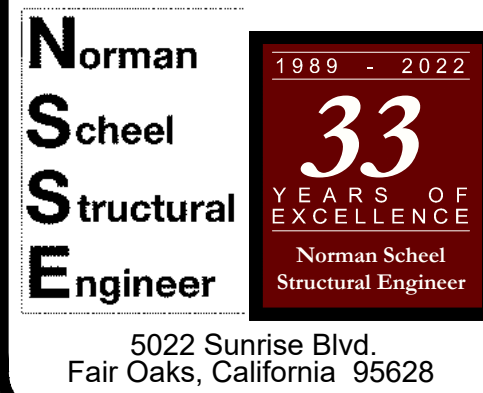
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Designer / Engineer:



Sheet Title:

CONSTRUCTION
DETAILS -
EQUIPMENT

Sheet Number:

A-5.1

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
2. THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
3. THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL MATERIALS MENTIONED OR SHOWN WHICH IS NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
4. THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
5. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ENGINEER.
6. COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.
7. THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER. REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
8. ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
9. "PROVIDE" INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.
10. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.

1. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF THE CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
2. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDED THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIAL IS REQUIRED.
3. LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE.
4. COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES, WHERE CONFLICTS OCCUR, CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY. OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER FOR THE PROPOSED CHANGES BEFORE PROCEEDING.

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
2. CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
3. FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
4. REFER TO GROUND BUS DETAILS. PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
5. ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
6. ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED THHN (GREEN) INSULATION.
7. ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
8. PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
9. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

1. TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
2. CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

ALL MATERIALS SHALL BE NEW, CONFORMING WITH NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.

2. CONDUIT:

- A) RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS, OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- B) ELECTRICAL METALLIC TUBING SHALL U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
- C) FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
- D) CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
- E) ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE
- F) ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.
- G) CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4x4 REDWOOD SLEEPERS, 6'-0" ON CENTER, SET IN NON-HARDENING MASTIC.

3. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.

1. PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC.. SUPPORT LUMINAIRES FROM THE UNDERSIDE OF STRUCTURAL CEILING. EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.
2. CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS, CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ENGINEER BEFORE CORING.
3. IN DRILLING HOLES INTO THE CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
4. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
5. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT C.B.C.

1. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALLS DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
2. PROVIDING PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.
3. ALL BROCHURES, OPERATING MANUALS, CATALOG, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONNECTIONS ACCORDING TO SITE CONDITIONS. AT&T'S GROUNDING SPECIFICATIONS NUMBER ATT-TP-76416 (CHAPTER 7), AND MANUFACTURER SPECIFICATION.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
 - A) EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
13. GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
17. POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
18. NO LB'S ALLOWED ON GROUNDING.
19. PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.

Sheet Number:

E-1

ELECTRICAL INSTALLATION METHODS:

This installation shall comply with the currently adopted edition of

- the National Electrical Code and with utility company and local code requirements.
- Install sufficient lengths of LFMC including all conduit fittings (nuts, reducing bushings, elbows, couplings, etc) necessary for connection from IMC or PVC conduit to the interior of the BTS cabinet.
- Power, control and equipment ground wiring in tubing or conduit shall be single conductor (#14 AWG and larger), 600V, oil resistant THHN or THWN-2, Class B stranded copper cable rated for 90°C (wet and dry) operation; listed or labeled for the location and raceway system used.
- Cut, coil and tape a 3 foot pigtail from end of LFMC for terminating by BTS equipment manufacturer.
- Supplemental equipment ground wiring located indoors shall be single conductor (#6 AWG and larger), 600V, oil resistant THHN or THWN-2 green insulation, Class B stranded copper cable rated for 90°C (wet and dry) operation, listed or labeled for the location and raceway system used.
- Supplemental equipment ground wiring located outdoors or below grade shall be single conductor #2 AWG solid, tinned, copper cable.
- Power and control wiring, not in tubing or conduit, shall be multi-conductor, Type TC. Cable (#14 AWG and larger), 600V, oil resistant THHN or THWN-2, Class B, Stranded copper cable rated for 90°C (Wet or Dry) operation, with outer jacket listed or labeled for the location used.
- Cables shall not be routed through ladder-style cable tray rungs.
- Raceway and cable tray shall be listed or labeled for electrical use in accordance with NEMA, UL, ANSI/IEEE and NEC.
- New raceway or cable tray shall match the existing installation where possible.
- All power and grounding connections shall be crimp style, compression, wire lugs and wirenuts by Thomas and Betts (or equal). Lugs and wirenuts shall be rated for operation at no less than 75°C.
- Each end of every power, grounding and T1 conductor and cable shall be labeled with color coded insulation or electrical tape. The identification method shall conform with NEC & OSHA and match existing installation requirements.
- All electrical components shall be clearly labeled with engraved laminated plastic labels. All equipment shall be labeled with their voltage rating, phase configuration, wire configuration, power or ampacity rating and branch circuit ID numbers (panelboard and circuit identification).
- All tie wraps shall be cut flush with approved cutting tool to remove sharp edges.
- Rigid nonmetallic conduit (PVC Schedule 40 or PVC Schedule 80) shall be used underground, direct buried in areas of occasional light vehicle traffic or encased in reinforced concrete in areas of heavy vehicle traffic.
- All conduit run above ground or exposed shall be LFMC, IMC or Rigid Steel.
- Electrical metallic tubing (EMT) shall be used for concealed indoor locations.
- Liquid tight flexible metallic conduit shall be used indoors and outdoors where vibration occurs or flexibility is needed.
- Conduit and tubing fittings shall be threaded or compression type and approved for the location used. Setscrew fittings are not acceptable.
- Cabinets, boxes and wireways shall be listed or labeled for electrical use in accordance with NEMA, UL, ANSI/IEEE and NEC.
- Cabinets, boxes and wireways shall match the existing installation where possible.
- Provide necessary tagging on the breakers, cables and distribution panels in accordance with applicable codes and standards to safeguard life and property.
- The subcontractor shall review and inspect the existing facility grounding system and lightning protection system (as designed and installed) for strict compliance with the NEC. The site specific lightning protection code and general compliance with Telcordia and TIA grounding standards. The subcontractor shall report any violations or adverse findings to the contractor for resolution.
- All electrode systems (including telecommunication, radio, lightning protection and AC power GES's) shall be bonded together at or below grade by two or more copper bonding conductors in accordance with the NEC.
- Perform IEEE fall-of-potential resistance to earth testing (per IEEE 1100 and 81) for new ground electrode systems. The subcontractor shall furnish and install supplemental ground electrodes as needed to achieve a test result of 5 ohms or less.
- Metal raceway shall not be used as the NEC required equipment ground conductor. Stranded copper conductors with green insulation sized in accordance with the NEC shall be furnished and installed with the power circuits to BTS equipment.
- Each indoor BTS cabinet frame shall be directly connected to the master ground bar with supplemental equipment ground wires #6 or larger.
- Exothermic welds shall be used for all grounding connections below grade.
- Approved antioxidant coatings (i.e. conductive gel or paste) shall be used on all compression and bolted ground connections.
- ICE bridge bonding conductors shall be exothermically bonded or bolted to the bridge and the tower ground bar.
- Surfaces to be connected to ground conductors shall be cleaned to a bright surface at all connections.
- Exposed ground connections shall be made with compression connectors which are then bolted to equipment using stainless steel hardware. Installation torque shall be per manufacturer's requirements.
- DC power cables shall be Cobra COP-FLEX 2000, Flexible Class B or approved equal.

PANEL SCHEDULE

NAMEPLATE: PANEL A				SC LEVEL: 22,000				VOLTS: 120/240V, 1Ø, 3W			
LOCATION: AT&T SITE								BUS AMPS: 200A			
MOUNTING: WALL								MAIN CB: 200A			
0A	0B									0A	0B
LOAD VA	LOAD VA	CONT	LOAD DESCRIPTION	BKR AMP/ POLE	CIRCUIT NO.	BKR AMP/ POLE	CONT	LOAD DESCRIPTION		LOAD VA	LOAD VA
1,320	-	Y	RECTIFIER #1	3Ø/2	01 02	3Ø/2	Y	RECTIFIER #4		1,320	-
-	1,320	Y	RECTIFIER #1	-	03 04	-	Y	RECTIFIER #4		-	1,320
1,320	-	Y	RECTIFIER #2	3Ø/2	05 06	3Ø/2	Y	RECTIFIER #5		1,320	-
-	1,320	Y	RECTIFIER #2	-	07 08	-	Y	RECTIFIER #5		-	1,320
1,320	-	Y	RECTIFIER #3	3Ø/2	09 10	3Ø/2	Y	RECTIFIER #6		1,320	-
-	1,320	Y	RECTIFIER #3	-	11 12	-	Y	RECTIFIER #6		-	1,320
1,320	-	Y	RECTIFIER #7	3Ø/2	13 14	3Ø/2	Y	RECTIFIER #10		1,320	-
-	1,320	Y	RECTIFIER #7	-	15 16	-	Y	RECTIFIER #10		-	1,320
1,320	-	Y	RECTIFIER #8	3Ø/2	17 18	3Ø/2	Y	RECTIFIER #11		1,320	-
-	1,320	Y	RECTIFIER #8	-	19 20	-	Y	RECTIFIER #11		-	1,320
1,320	-	Y	RECTIFIER #9	3Ø/2	21 22	-	N	SPACE		1,320	-
-	1,320	Y	RECTIFIER #9	-	23 24	2Ø/1	Y	GFCI RECEPTACLE		-	300
1,600	-	Y	HVAC 1	2Ø/2	25 26	2Ø/1	Y	EXTERIOR LIGHT		300	-
-	1,600	Y	HVAC 1	-	27 28	2Ø/1	Y	BATTERY HEATER BLOCK		-	1,000
180	-	N	GFCI RECEPTACLE		29 30	2Ø/1	Y	BATTERY CHARGER BLOCK		250	-
9,700				PHASE TOTALS				PHASE TOTALS			
TOTAL VA = 34,590VA				TOTAL AMPS = 144A							

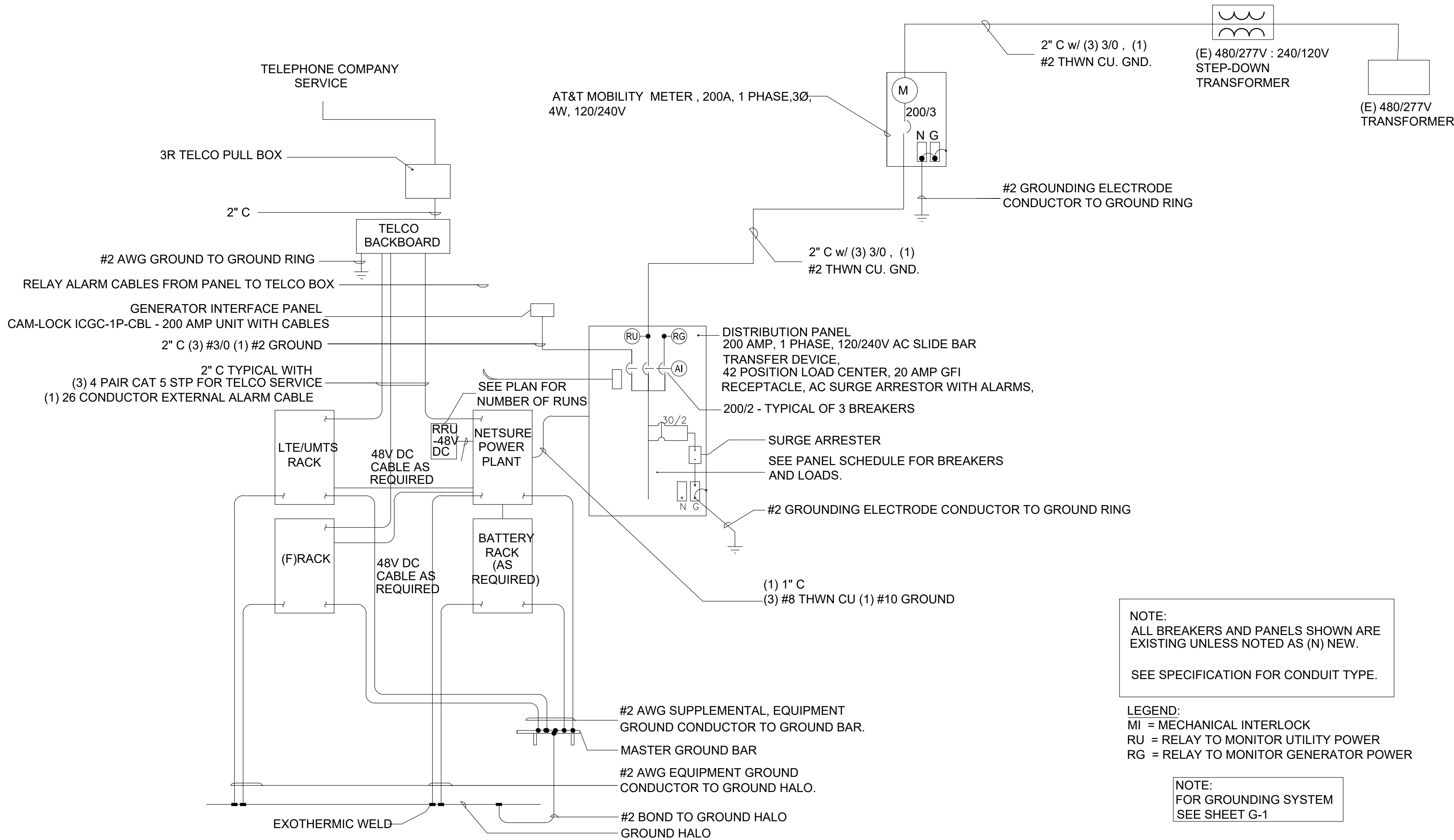
ABBREVIATIONS:

- BCW
BTS
C
(E)
EG
(F)
FACP
GEN
IG
IMC
LFMC
MCM
MI
MP&S
(N)
NEMA
NL
PFB
PVC
(R)
RG
RU
TYP
UON
WP
GFCI
- BARE COPPER WIRE
BASE TRANSCEIVER STATION
CONDUIT
EXISTING
EQUIPMENT GROUND
FUTURE
FIRE ALARM CONTROL PANEL
GENERATOR
ISOLATED GROUND
INTERMEDIATE METAL CONDUIT
LIQUID TIGHT FLEXIBLE METAL CONDUIT
MILLION CIRCULAR MILLS
MECHANICAL INTERLOCK
SEE MECHANICAL PLANS & SPECIFICATIONS
NEW
NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
PROVISION FOR FUTURE BREAKER
POLYVINYL CHLORIDE CONDUIT
RELOCATE
RELAY TO MONITOR GENERATOR POWER
RELAY TO MONITOR UTILITY POWER
TYPICAL
UNLESS OTHERWISE NOTED
WEATHERPROOF
GROUND FAULT CIRCUIT INTERRUPTER

NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

3 PANEL SCHEDULE

2 ABBREVIATIONS



4 ELECTRICAL NOTES

1/4" = 1'-0"

1 SINGLE LINE DIAGRAM

1/4" = 1'-0"

Issued For:

CVL01180

DENAIR

3140 NORTH GRATTON ROAD
DENAIR, CA 95316
FA# 15541189
USID# 315889

Prepared For:



Vendor:



AT&T SITE NO: CVL01180

PROJECT NO: 22-003

DRAWN BY: BW

CHECKED BY: BW

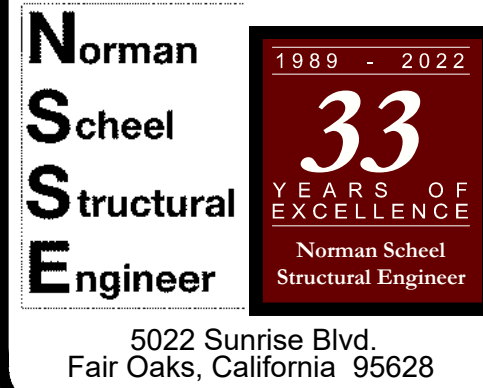
REV	DATE	DESCRIPTION
3		
2		
1		
0		
C		
B		
A	2/25/2022	90% ZD SUB.

Licensee:



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

Designer / Engineer:



Sheet Title:

POWER SINGLE LINE DIAGRAM

Sheet Number:

E-3



Existing



Proposed



view from N. Gratton Road looking east at site

Existing



Proposed



view from N. Gratton Road looking northeast at site

Existing



Proposed



view from Santa Fe Avenue looking southwest at site

Existing



Proposed



view from N. Gratton Road looking northwest at site



on behalf of



DATE: 03/14/2022

Stanislaus County | Planning & Community Development
1010 10th Street,
Suite 3400, Modesto, CA 95354

Operation And project Justification Statement

Re: Proposed “New” AT&T Telcom Facility (cell site) Site Ref# CVL01180/Denair
Located at: 3140 N Gratton Rd, Denair, CA 95316 APN: 024-039-009

Introduction

New AT&T proposed Monopole Tower. AT&T proposes to install a new wireless communications facility (“WCF”) located at 3140 N Gratton Rd, Denair in the county of Stanislaus. The proposal includes the construction of (1) New 125ft. co-locatable Monopole tower with (15) panel antennas, (18) remote radio units, and associated equipment installed on the tower. Install (1) new 8.0' x 8.0' (WIC) walk in closet equipment shelter & 30kw back up Diesel generator inside a 702 sq. ft. AT&T ground space lease area located inside an existing fenced in area portion of the property.

Colocation

AT&T seeks to fill a significant gap in service coverage using the least intrusive means under the values expressed in the Stanislaus County siting standards for Wireless Communication Facilities. Thus, AT&T is guided by the County Code Siting Standards for WCFs found in section 21.91.030 of the code.

“The tower shall be a monopole design unless the planning director determines that it would not be visible to the general public, in which case a lattice tower design may be approved”.

AT&T seeks to meet the Code requirements and provide the best available design by placing this Monopole structure WCF in a A-2-10 (General Agg) Use zone at the minimum height needed to address the significant service coverage gap.

Visual Considerations

AT&T’s engineering (Tower Manufacturer) has reviewed the proposed location to determine the appropriate type of Monopole tower structure, and in research suggest the proposed grey non-metallic tower would have the least visual impact on the local light industrial area, and blend best with the surroundings for the proposed AT&T antennas and equipment. The proposed site location will have minimal of an environmental impact with ease of access and utilities/trenching provided via an existing dirt access rd. directly to the site. Additionally, the site location will have little to no negative effect on the aesthetic quality of its surroundings due to the existing fencing with privacy slats installed on the property. Effectively the existing fencing will screen much of the facility and ground equipment from the public right of way.



on behalf of



Project Justification.

AT&T Wireless is currently improving the existing wireless network in Stanislaus County. The new proposed telecom facility and installation of AT&T's telecommunication equipment will improve wireless and broadband internet coverage for the local area and provide First Net capability. The First Net program also known as First Responders Network <https://www.firstnet.gov/> is the country's first nationwide public safety communications platform dedicated to first responders. Being built with AT&T, in public-private partnership with the [First Responder Network Authority](#) AT&T seeks to engage and work with federal, state and local governmental agencies as part of FirstNet buildout to enhance coverage for first responders. Additionally, the improved network will provide an extremely valuable service to those who live, travel, and do business in the local area. It will give people the ability to call for emergency services in the event of an accident, the ability to communicate with employees or clients outside of the office, and the ability to communicate with family members when needed. The project engineer has indicated that the proposed location will provide the necessary coverage and capacity with the ability to hand off the wireless signal to the next telecommunications site. This will enable travelers and community members to have reliable and continuous wireless coverage.

- Operation of the project will occur 12 months a year, 7 days a week, 24 hours a day consistent with the continuous schedule of normal telephone company operations.
- The facility is "unmanned" and will be visited on an "as needed" basis only. No more than two technicians will attend the facility. Their schedule will be on a 24 hour basis. No more than two service vehicles, being either a van or a small pickup truck will visit the facility.
- The equipment located within AT&T's lease area will be used for telephone operations.
- There will be no supplies or materials stored on the site.
- There will be no noise, glare, dust or odors associated with the facility.
- The proposed-on site 190-gallon diesel backup generator will ONLY run in the event of an emergency and for maintenance purposes approx. (1) time per month for approx. (20) to (30) mins. In the event of power outage, the generator has the capacity to power the site for up to (3) days before refueling is required.



on behalf of



Conclusion

AT&T would like to apply for a Use Permit for the project. The Proposed Facility is the least intrusive means by which AT&T can close its significant service coverage gap in this portion of Stanislaus County. Denial of AT&T's application would materially inhibit AT&T's ability to provide and improve service in this portion of the city.

Should you have questions regarding this project, please do not hesitate to contact my office directly at the undersigned

Sincerely,
Carl Jones
Project Manager
Epic Wireless Group LLC
(916) 798-2275 carl.jones@epicwireless.net

605 Coolidge Drive Suite 100
Folsom, CA. 95630
Fax (916) 781-5927



Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name:	Denair	Site Structure Type:	Monopole
Address:	3140 North Gratton Road	Latitude:	37.521204
	Denair, CA 95316	Longitude:	-120.792968
Report Date:	March 9, 2022	Project:	New Build

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the DENAIR installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage at the base of the Monopole and restricting access to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Certification

I, David H. Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



David H. Kiser, P.E.
Registered Professional Engineer (Electrical)
State of California, 21542, Expires 6/30/2022
Date: 2022-March-10

General Summary

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Table 1: FCC Limits

Frequency (MHz)	<i>Limits for General Population/ Uncontrolled Exposure</i>		<i>Limits for Occupational/ Controlled Exposure</i>	
	Power Density (mW/cm ²)	Averaging Time (minutes)	Power Density (mW/cm ²)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \text{ (mW/cm}^2\text{)}$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left(\frac{180}{\theta_{BW}} \right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \text{ (mW/cm}^2\text{)}$$

where P_{in} is the power input to the antenna, θ_{BW} is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. This analysis includes a statistical factor reducing the actual power of the antenna system to 32% of maximum theoretical power to account for spatial distribution of users, network utilization, time division duplexing, and scheduling time. AT&T recommends the use of this factor based on a combination of guidance from its antenna system manufacturers, supporting international industry standards, industry publications, and its extensive experience.

Analysis

AT&T Mobility proposes the following installation at this location:

- INSTALL (15) ANTENNAS ON (N) MONOPOLE TOWER
- INSTALL (18) RRUS ON TOWER

The antennas will be mounted on a 125-foot Monopole with centerlines 121, 119.62, 122 & 122.18 feet above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating in the vicinity of this site.

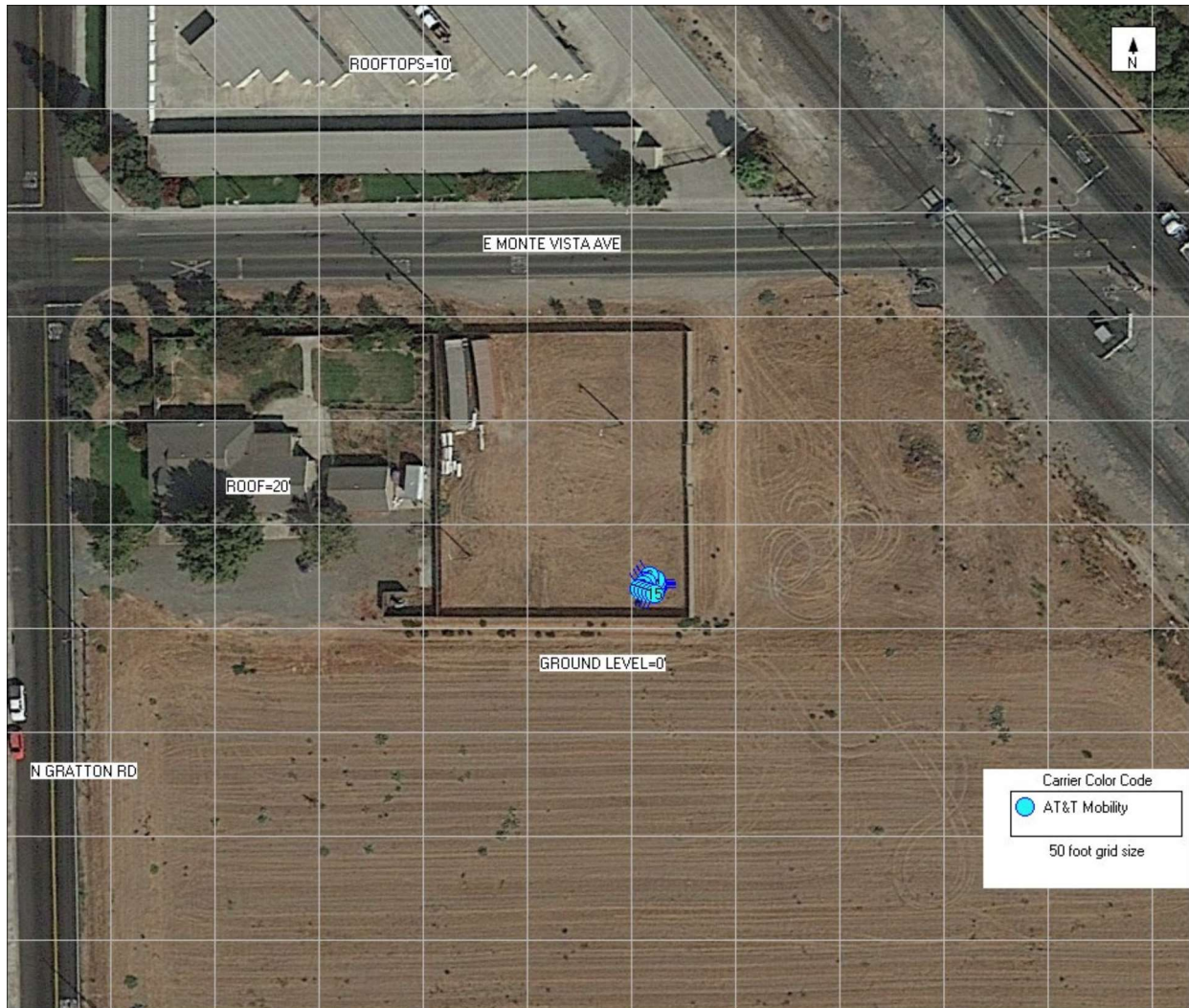


Figure 1: Antenna Locations

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 10.21% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 9.6551% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Waterford Consultants, LLC recommends posting RF alerting signage with contact information (Caution 2B) at the base of the Monopole to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

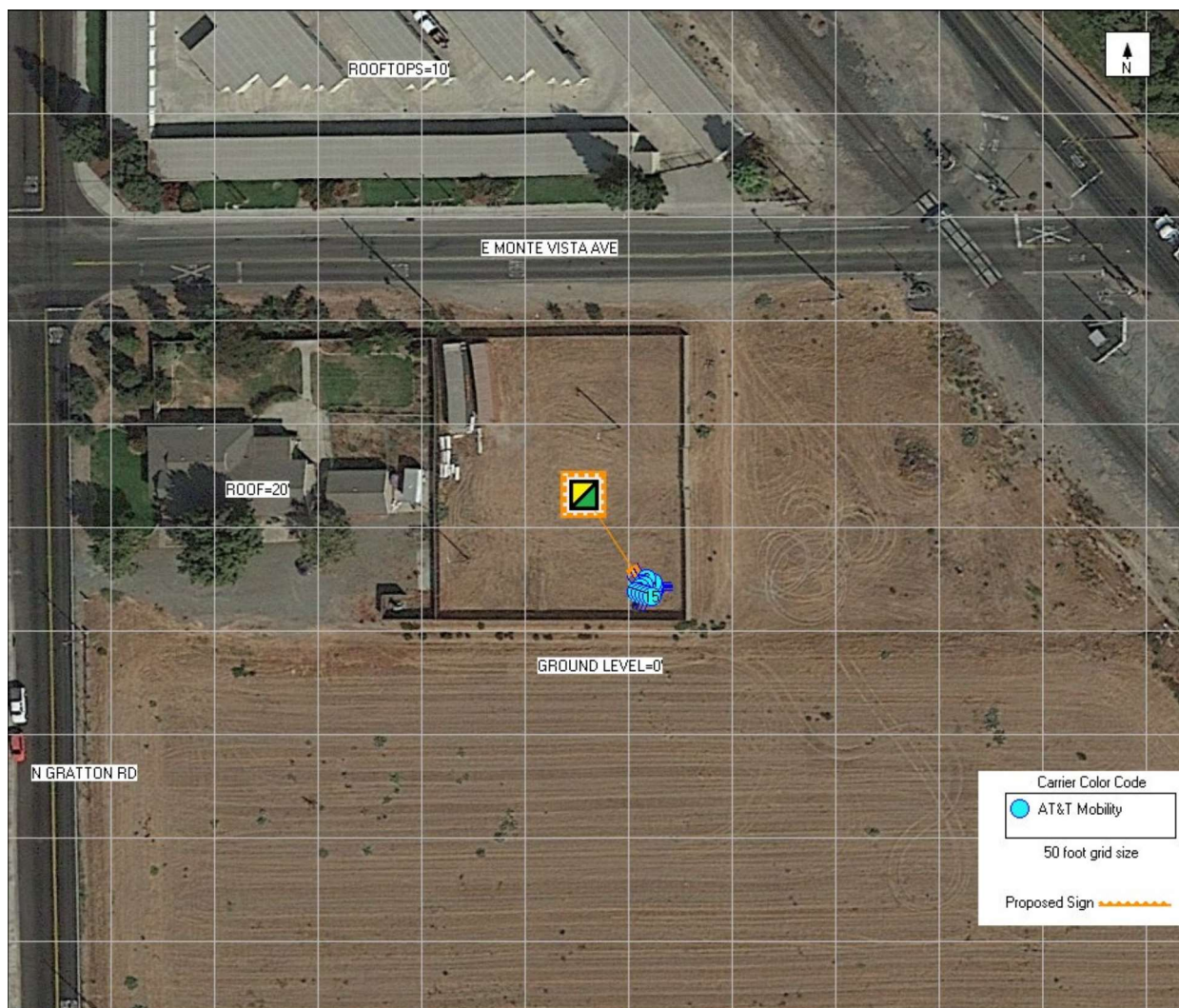


Figure 2: Mitigation Recommendations



Appendix A: Operating Parameters Considered in this Analysis

Antenna #:	Carrier:	Manufacturer	Pattern:	Band (MHz):	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
1	AT&T	QUINTEL	QD8612-3D V1 02DT	700	90	0	70	8	40	4	0	12.7109	2987	4900	121
1	AT&T	QUINTEL	QD8612-3D V1 02DT	850	90	0	61	8	40	4	0	13.2158	3355	5504	121
1	AT&T	QUINTEL	QD8612-3D V1 02DT	1900	90	0	60	8	40	4	0	15.249	5358	8791	121
1	AT&T	QUINTEL	QD8612-3D V1 02DT	2100	90	0	60	8	40	4	0	15.6024	5812	9536	121
2	AT&T	ERICSSON	SON_AIR6449 NR TB 3700 AT&T	3700	90	0	11	2.8	108.4	1	0	23.55	24549	40274	119.62
3	AT&T	ERICSSON	SON_AIR6419 B42FB NR TB 3400 AT&T	3400	90	0	13	2.4	108.4	1	0	22.85	20894	34279	122.18
4	AT&T	QUINTEL	QD8612-2 V1 02DT	700	90	0	69	8	40	4	0	13.0532	3232	5302	121
4	AT&T	QUINTEL	QD8612-2 V1 00DT	1900	90	0	60	8	40	4	0	15.3015	5423	8898	121
4	AT&T	QUINTEL	QD8612-2 V1 00DT	2100	90	0	61	8	40	4	0	15.3581	5495	9014	121
5	AT&T	QUINTEL	QD868-2 V1 02DT	700	90	0	74	8	40	2	0	12.1945	1326	2175	121
5	AT&T	QUINTEL	QD868-2 V1 02DT	2300	90	0	62	8	25	4	0	15.4039	3470	5694	121
6	AT&T	QUINTEL	QD8612-3D V1 02DT	700	330	0	70	8	40	4	0	12.7109	2987	4900	121
6	AT&T	QUINTEL	QD8612-3D V1 02DT	850	330	0	61	8	40	4	0	13.2158	3355	5504	121
6	AT&T	QUINTEL	QD8612-3D V1 02DT	1900	330	0	60	8	40	4	0	15.249	5358	8791	121
6	AT&T	QUINTEL	QD8612-3D V1 02DT	2100	330	0	60	8	40	4	0	15.6024	5812	9536	121
7	AT&T	ERICSSON	SON_AIR6449 NR TB 3700 AT&T	3700	330	0	11	2.8	108.4	1	0	23.55	24549	40274	119.62
8	AT&T	ERICSSON	SON_AIR6419 B42FB NR TB 3400 AT&T	3400	330	0	13	2.4	108.4	1	0	22.85	20894	34279	122.18
9	AT&T	QUINTEL	QD8612-2 V1 02DT	700	330	0	69	8	40	4	0	13.0532	3232	5302	121
9	AT&T	QUINTEL	QD8612-2 V1 00DT	1900	330	0	60	8	40	4	0	15.3015	5423	8898	121
9	AT&T	QUINTEL	QD8612-2 V1 00DT	2100	330	0	61	8	40	4	0	15.3581	5495	9014	121
10	AT&T	QUINTEL	QD868-2 V1 02DT	700	330	0	74	8	40	2	0	12.1945	1326	2175	121
10	AT&T	QUINTEL	QD868-2 V1 02DT	2300	330	0	62	8	25	4	0	15.4039	3470	5694	121
11	AT&T	QUINTEL	QD8612-3D V1 02DT	700	210	0	70	8	40	4	0	12.7109	2987	4900	121
11	AT&T	QUINTEL	QD8612-3D V1 02DT	850	210	0	61	8	40	4	0	13.2158	3355	5504	121
11	AT&T	QUINTEL	QD8612-3D V1 02DT	1900	210	0	60	8	40	4	0	15.249	5358	8791	121

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11	AT&T	QUINTEL	QD8612-3D V1 02DT	2100	210	0	60	8	40	4	0	15.6024	5812	9536	121
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13	AT&T	ERICSSON	SON_AIR6419 B42FB NR TB 3400 AT&T	3400	210	0	13	2.4	108.4	1	0	22.85	20894	34279	122.18
14	AT&T	QUINTEL	QD8612-2 V1 02DT	700	210	0	69	8	40	4	0	13.0532	3232	5302	121
14	AT&T	QUINTEL	QD8612-2 V1 00DT	1900	210	0	60	8	40	4	0	15.3015	5423	8898	121
14	AT&T	QUINTEL	QD8612-2 V1 00DT	2100	210	0	61	8	40	4	0	15.3581	5495	9014	121
15	AT&T	QUINTEL	QD868-2 V1 02DT	700	210	0	74	8	40	2	0	12.1945	1326	2175	121
15	AT&T	QUINTEL	QD868-2 V1 02DT	2300	210	0	62	8	25	4	0	15.4039	3470	5694	121

Notes: Table depicts recommended operating parameters for AT&T Mobility proposed operations.