

ENGINEERING

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

1. CALIFORNIA BUILDING STANDARDS CODE: 2022 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2023.
PART 1 - CALIFORNIA ADMINISTRATIVE CODE
PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2021 INTERNATIONAL BUILDING CODE
PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2021 INTERNATIONAL RESIDENTIAL CODE
PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2020 NATIONAL ELECTRICAL CODE
PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2021 UNIFORM MECHANICAL CODE
PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2021 UNIFORM PLUMBING CODE
PART 6 - CALIFORNIA ENERGY CODE
PART 7 - VACANT
PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2021 INTERNATIONAL FIRE CODE
PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2021 INTERNATIONAL EXISTING BUILDING CODE
PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC; ALSO KNOWN AS CALGREEN)
PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
2. ANSI/TIA-222 (REV H)
3. 2021 NFPA 101, LIFE SAFETY CODE
4. 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
5. 2022 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

GENERAL NOTES	
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THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

SITE INFORMATION	
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PROPERTY OWNER:	PCI XI I LINCOLN ASSOC.
ADDRESS:	2424 CENTRAL AVE. ALAMEDA, CA
APPLICANT:	T-MOBILE USA
ADDRESS:	1855 GATEWAY BOULEVARD, STE. 900 CONCORD, CA 94520
LATITUDE:	37° 59' 26.5" N (37.99068600)
LONGITUDE:	121° 53' 32.2" W (-121.8929100)
LAT/LONG TYPE:	NAD 83
GROUND ELEVATION:	±19' AMSL
APN #:	089-050-056
ZONING JURISDICTION:	CONTA COSTA COUNTY
CURRENT ZONING:	R-5 RESIDENTIAL
PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY
TELEPHONE:	AT&T
POWER:	PG&E

PROJECT TEAM

<p><u>SITE ACQUISITION MANAGER:</u> J5 INFRASTRUCTURE PARTNERS 23 MAUCHLY, SUITE 110 IRVINE, CA 92618 CONTACT: REFUGIO CRUZ EMAIL: RCRUZ@J5IP.COM</p>	<p><u>ENGINEER:</u> J5 INFRASTRUCTURE PARTNERS 23 MAUCHLY, SUITE 110 IRVINE, CA 92618 CONTACT: WILLIAM RIOS EMAIL: WRIOS@J5IP.COM Phone: (562) 556.2026</p>
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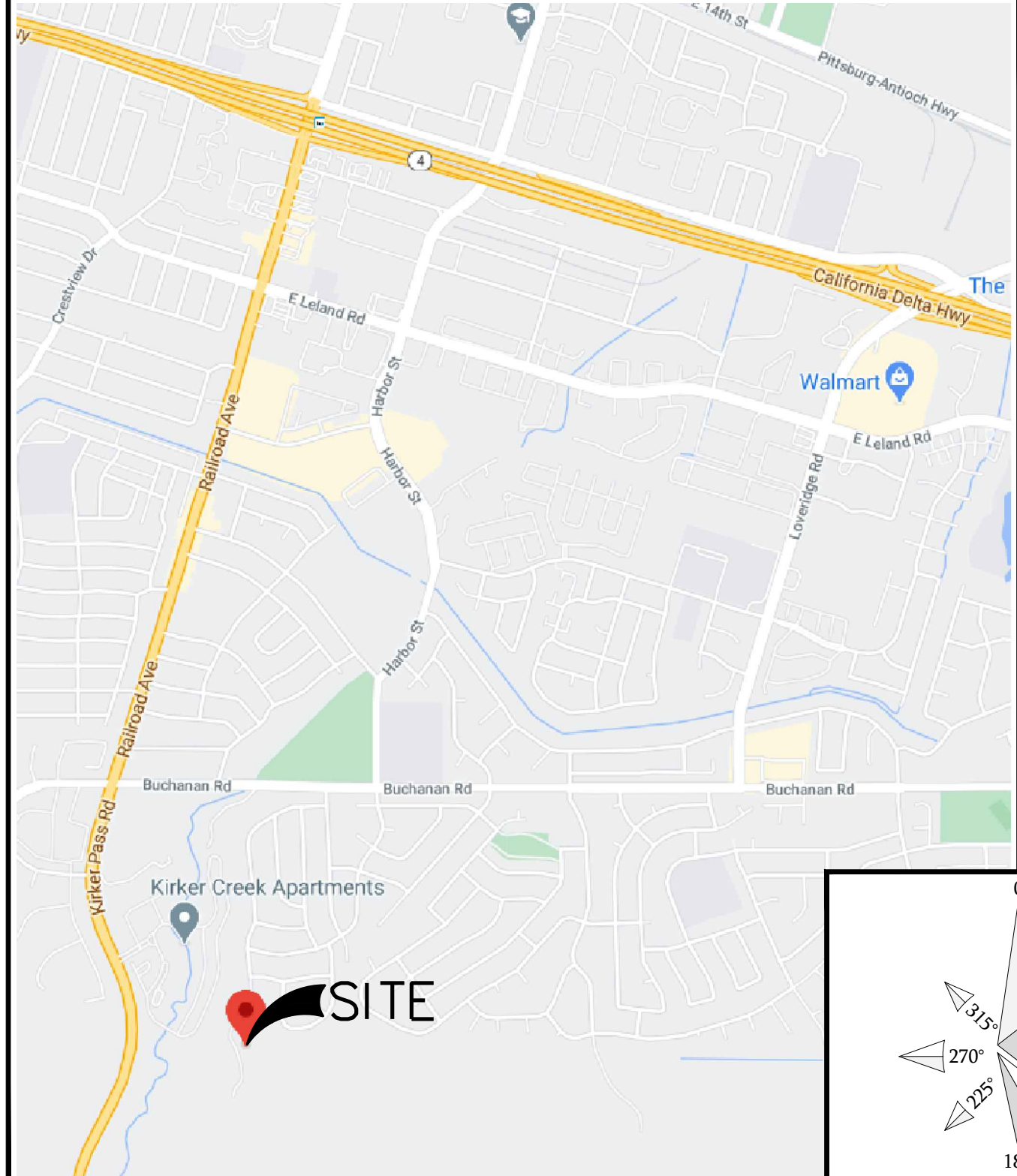
CONSTRUCTION MANAGER:
J5 INFRASTRUCTURE PARTNERS
23 MAUCHLY, SUITE 110
IRVINE, CA 92618
CONTACT: SHAUNT KEUFTEDJIAN
EMAIL: SKEUFTEDJIAN@J5IP.COM
PHONE: (650) 452.8248



SITE NUMBER: BA01234A
SITE NAME: HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94565
COUNTY: CONTRA COSTA

LOCATION MAPS

VICINITY MAP



LOCAL MAP



DRIVING DIRECTIONS

DIRECTIONS FROM T-MOBILE OFFICE IN CONCORD:

GET ON CLAYTON RD, HEAD WEST TOWARD MARKET STREET, TURN RIGHT ON MARKET STREET & USE THE RIGHT 2 LANES TO TAKE THE RAMP ONTO CA-242 N, TAKE CA-242 N FOR ABOUT 1-1/2 MILES TO CA-4 EAST TOWARD STOCKTON/PITTSBURG. TAKE CA-4 E FOR 13-1/2 MILES TO EXIT 23 FOR RAILROAD AVENUE IN PITTSBURG. TURN RIGHT ONTO RAILROAD AVENUE FROM THE EXIT RAMP AND PROCEED SOUTHERLY ON RAILROAD AVENUE FOR ABOUT 1-1/4 MILES TO A RIGHT TURN ONTO BUCHANAN ROAD. TAKE BUCHANAN ROAD FOR ABOUT 1/2 MILE TO A RIGHT TURN ONTO HEIGHTS AVENUE, THEN TAKE THE FIRST RIGHT ONTO HILLVIEW DRIVE. TAKE HILLVIEW DRIVE TO THE END WHERE THE SITE ACCESS ROAD STARTS. METER IS LOCATED AT HILLVIEW AT THE ACCESS GATE.

*736 LINCOLN AVENUE ALAMEDA, CA 94501

REVISÉ

RECEIVED on 09/26/2025 CDLP23-02030
By Contra Costa County
Department of Conservation and Development

CONSTRUCTION DRAWINGS

IF USING 11"x17" PLOT, DRAWINGS WILL BE HALF SCALE

PROJECT DESCRIPTION	
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T-MOBILE WIRELESS PROPOSES TO MODIFY AN EXISTING WIRELESS COMMUNICATION SITE ON A BUILDING. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- REMOVE & RELOCATE EXISTING 100 AMP METER/MAIN AND PANEL PEDESTAL
- INSTALL (1) NEW 200 AMP METER / MAIN DISCONNECT PER SERVING UTILITY
- INSTALL (1) NEW 200 AMP POWER PROTECTION CABINET (PPC)
- INSTALL NEW FEED CONDUCTORS FROM NEW METER TO NEW PPC (EXISTING CONDUIT)
- RECONNECT EXISTING LOADS FROM REMOVED AC PANEL ONTO NEW PPC PANEL 'A'
- INSTALL NEW H-FRAME
- INSTALL #5 BOX
- INSTALL 1/4" CONDUIT
- INSTALL 1-1/2" OA EPR 21KV
- INSTALL (2) 4" U.G. PVC CONDUIT
- INSTALL (8) NEW BOLLARDS
- INSTALL (2) NEW REMOVABLE BOLLARDS
- INSTALL NEW 25KVA TRANSFORMER

DRAWING INDEX

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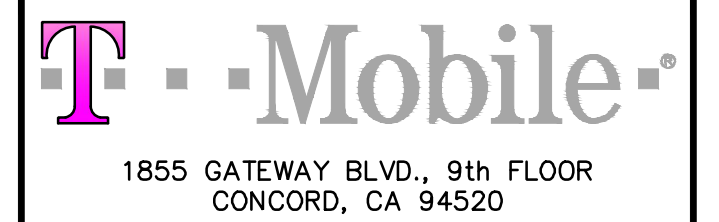
APPROVALS

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

T-MOBILE RF ENGINEER: _____ DATE: _____
T-MOBILE OPERATIONS: _____ DATE: _____
SITE ACQUISITION: _____ DATE: _____
CONSTRUCTION MANAGER: _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____
ZONING: _____ DATE: _____
PROJECT MANAGER: _____ DATE: _____

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID:	BA01234A
DRAWN BY:	CL
CHECKED BY:	WR

10	09/11/2025	SA REDLINES	JDJ
9	06/10/2025	PPC COMMENTS	JDJ
8	11/21/2024	REVISED 100s CDs	JDJ
7	09/19/2024	REVISED 100s CDs	BH
6	06/17/2021	PPC COMMENTS	MA
5	04/24/2024	PPC COMMENTS	JDJ
4	05/09/2023	UPDATED CODES	WR
3	10/12/2022	EE REVIEW	CL
2	08/22/2022	PANEL RELOCATION	NC
1	12/09/2020	CLIENT COMMENTS	SS
0	10/30/2020	100% CD'S FOR SUBMITTAL	SS
REV	DATE	DESCRIPTION	

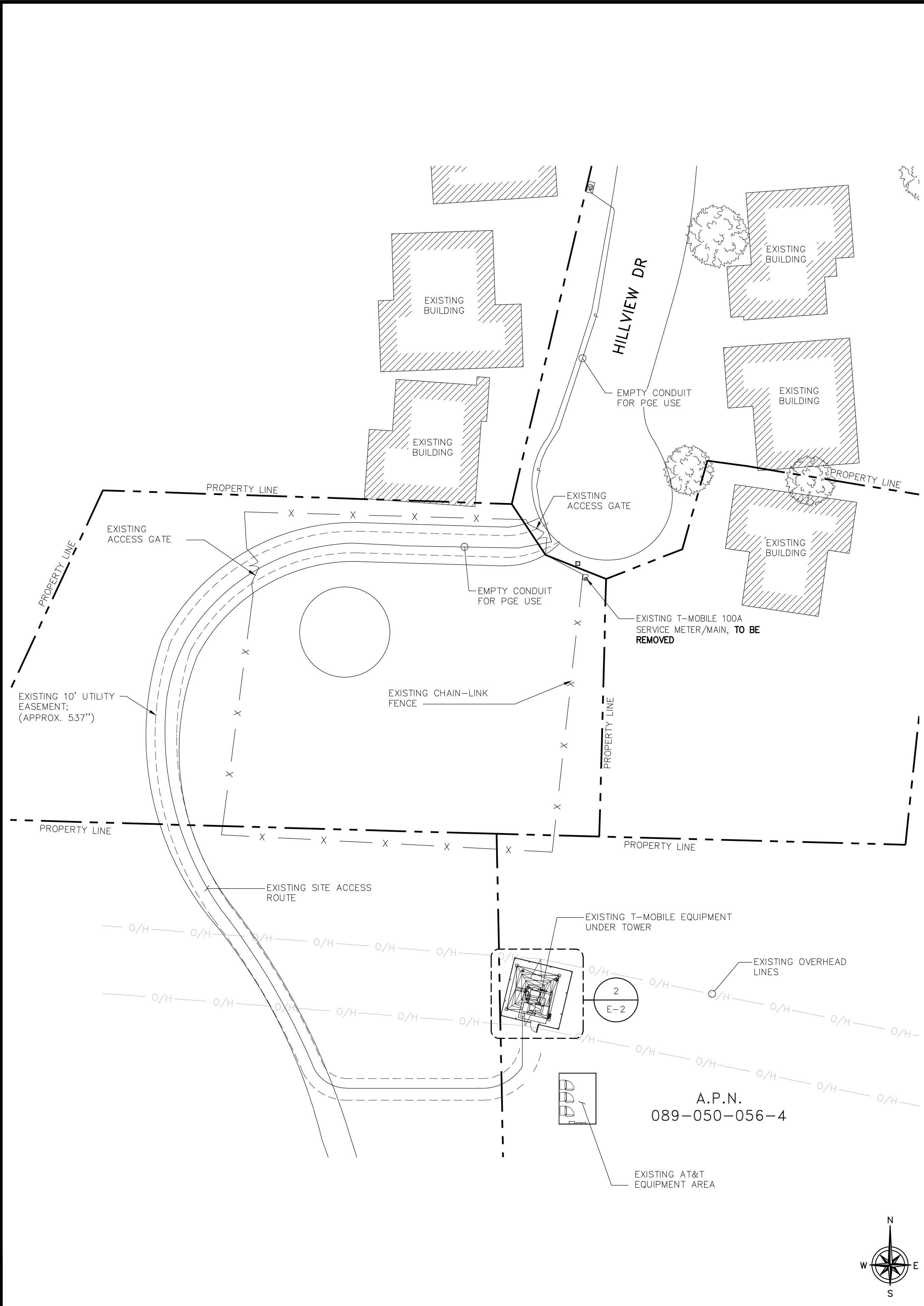


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS
THEY ARE ACTING UNDER THE DIRECTION OF A
LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS
DOCUMENT.

BA01234A
HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

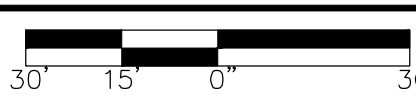
SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

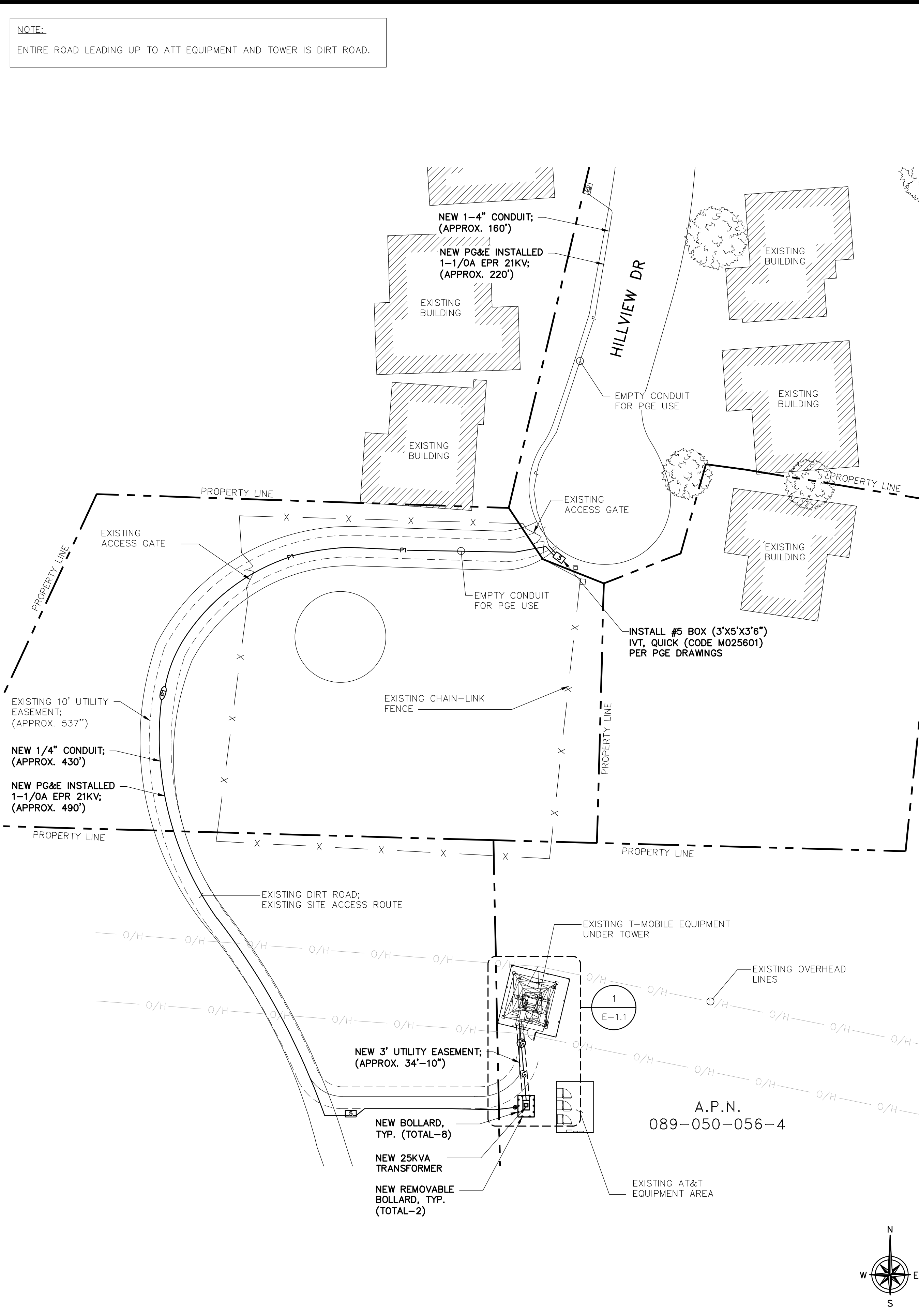


EXISTING ELECTRICAL SITE PLAN

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

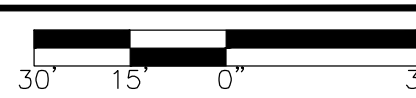


2



NEW ELECTRICAL SITE PLAN

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



1

NOTE:
ENTIRE ROAD LEADING UP TO ATT EQUIPMENT AND TOWER IS DIRT ROAD.

T-Mobile
1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

INFRASTRUCTURE PARTNERS
AZ - CA - CO - ID - NM - NV - TX - UT
23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID: BA01234A
DRAWN BY: CL
CHECKED BY: WR

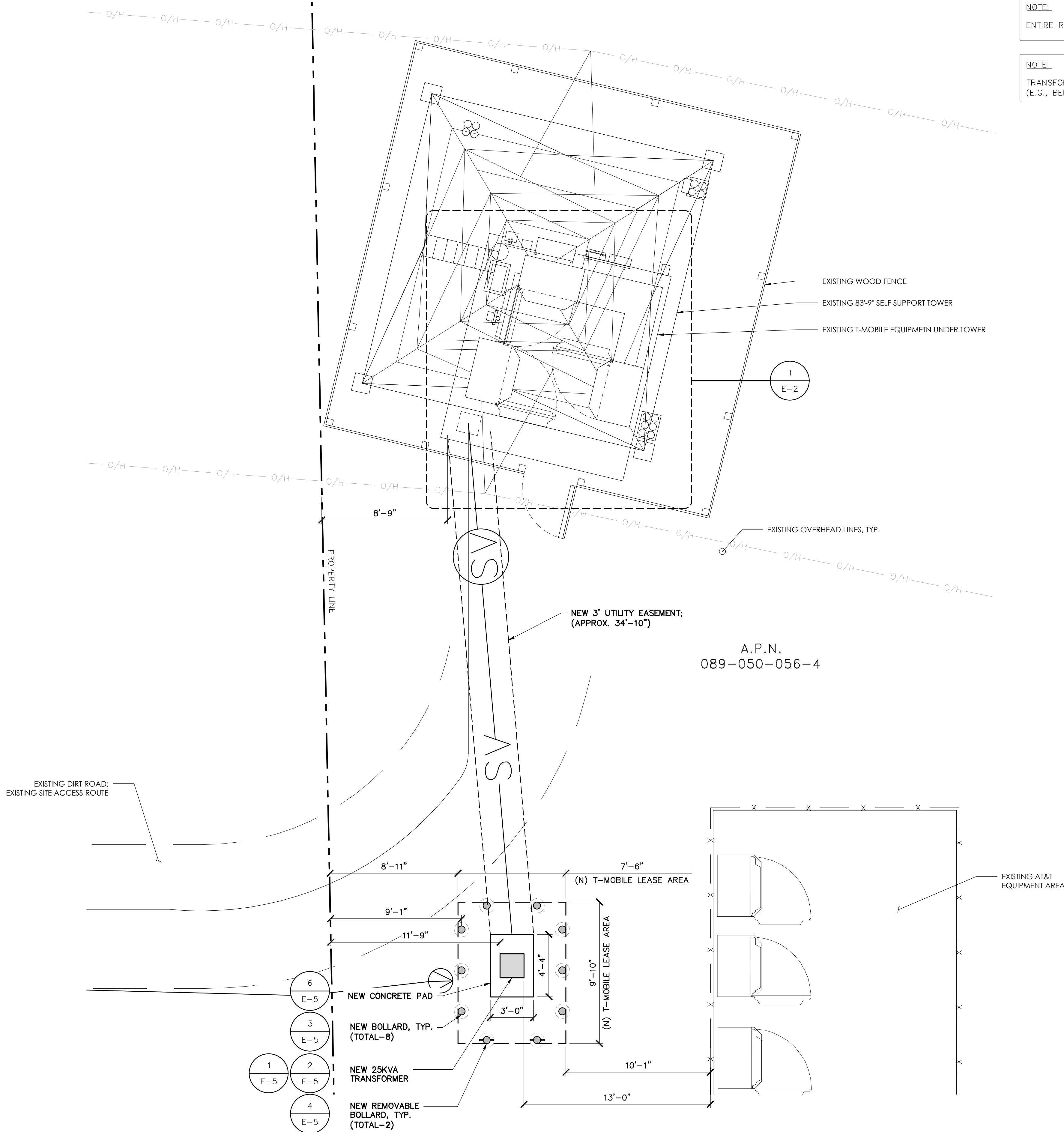
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9	06/10/2025	PPC COMMENTS	JDJ
8	11/21/2024	REVISED 100s CDs	JDJ
7	09/19/2024	REVISED 100s CDs	BH
6	06/17/2021	PPC COMMENTS	MA
5	04/24/2024	PPC COMMENTS	JDJ
4	05/09/2023	UPDATED CODES	WR
3	10/12/2022	EE REVIEW	CL
2	08/22/2022	PANEL RELOCATION	NC
1	12/09/2020	CLIENT COMMENTS	SS
0	10/30/2020	100% CDs FOR SUBMITTAL	SS

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BA01234A
HILLVIEW PL 234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE
**EXISTING & NEW
ELECTRICAL SITE PLANS**

SHEET NUMBER
E-1



NOTE:
ENTIRE ROAD LEADING UP TO ATT EQUIPMENT AND TOWER IS DIRT ROAD.

NOTE:
TRANSFORMER WILL BE PAINTED TO BLEND WITH LANDSCAPE
(E.G., BEIGE OR SIMILAR)

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1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

INFRASTRUCTURE PARTNERS
AZ - CA - CO - ID - NM - NV - TX - UT
23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID: BA01234A
DRAWN BY: CL
CHECKED BY: WR

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1	12/09/2020	CLIENT COMMENTS	SS
0	10/30/2020	100% CD'S FOR SUBMITTAL	SS



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BA01234A
HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE
**NEW ENLARGED
ELECTRICAL SITE PLAN**

SHEET NUMBER
E-1.1

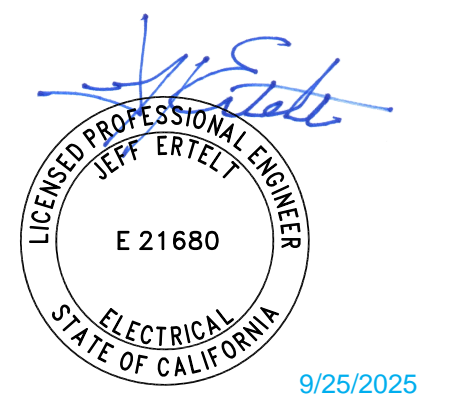
T-Mobile
1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

INFRASTRUCTURE
PARTNERS
AZ - CA - CO - ID - NM - NV - TX - UT

23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID: BA01234A
DRAWN BY: CL
CHECKED BY: WR

REV	DATE	DESCRIPTION	
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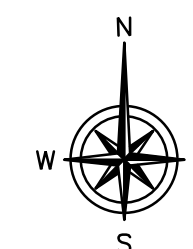
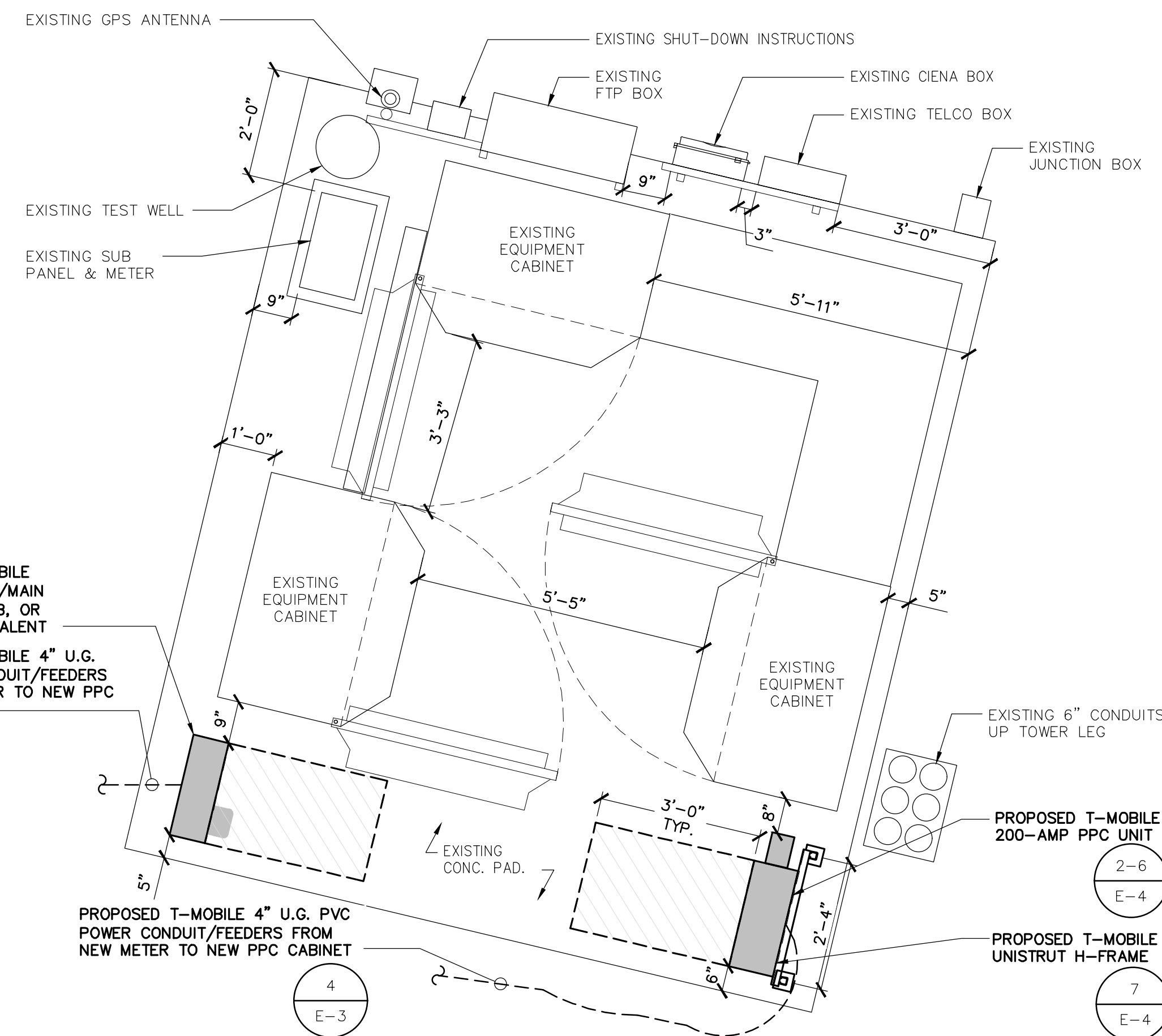
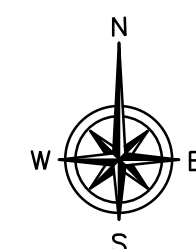
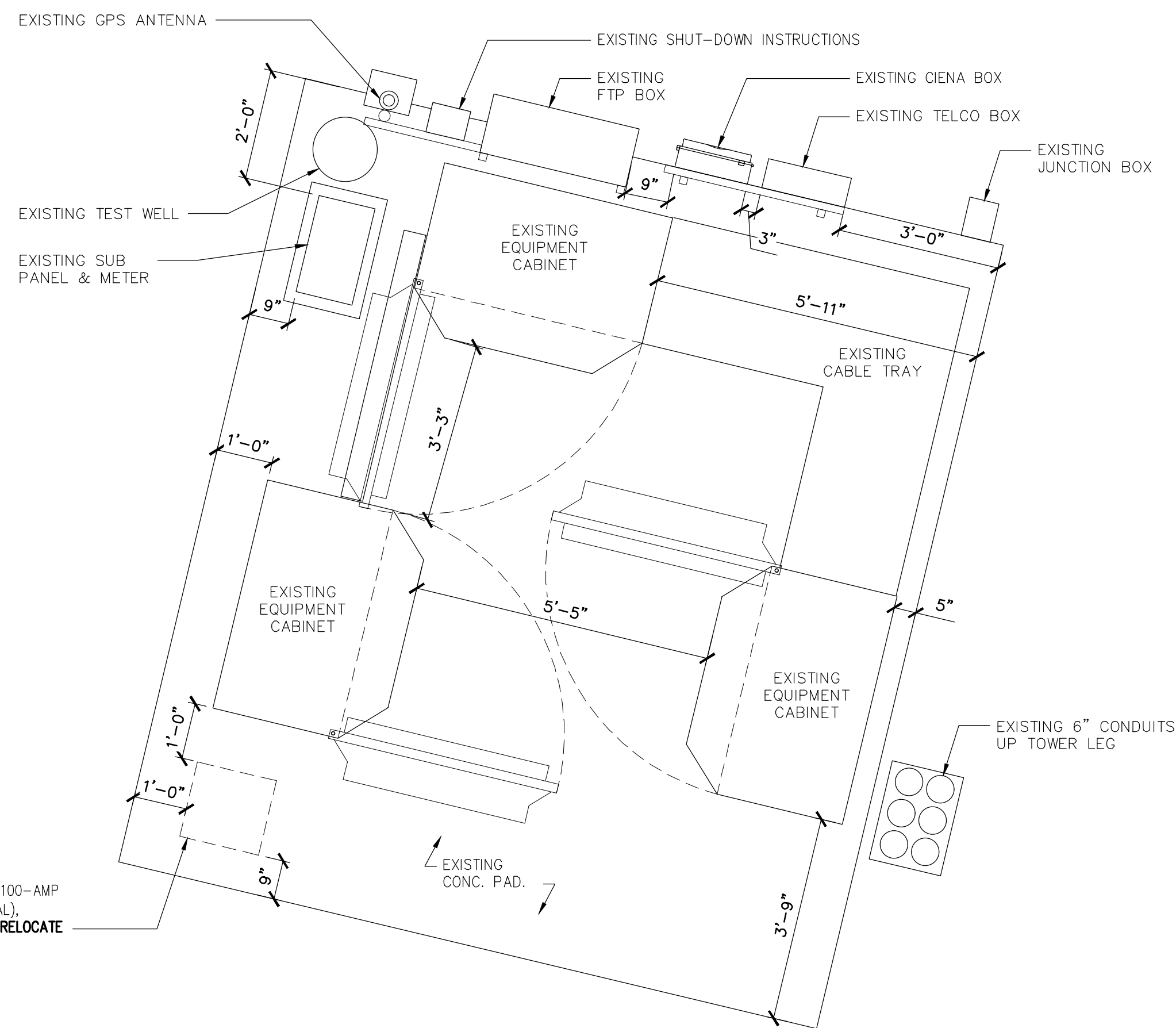


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BA01234A
HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE
**EXISTING & NEW
EQUIPMENT PLANS**

SHEET NUMBER
E-2



EXISTING EQUIPMENT PLAN

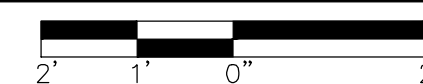
24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



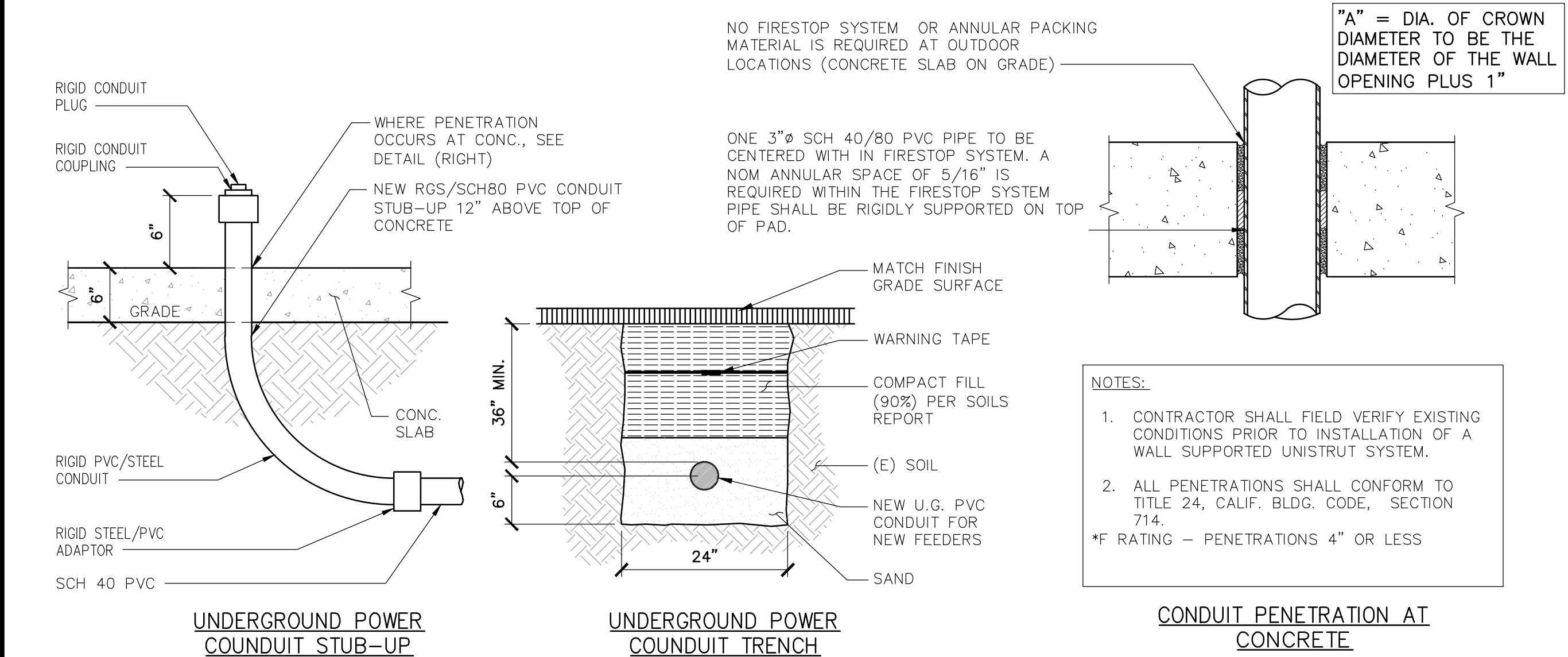
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NEW EQUIPMENT PLAN

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



1



POWER CONDUIT ROUTING

NOTES:

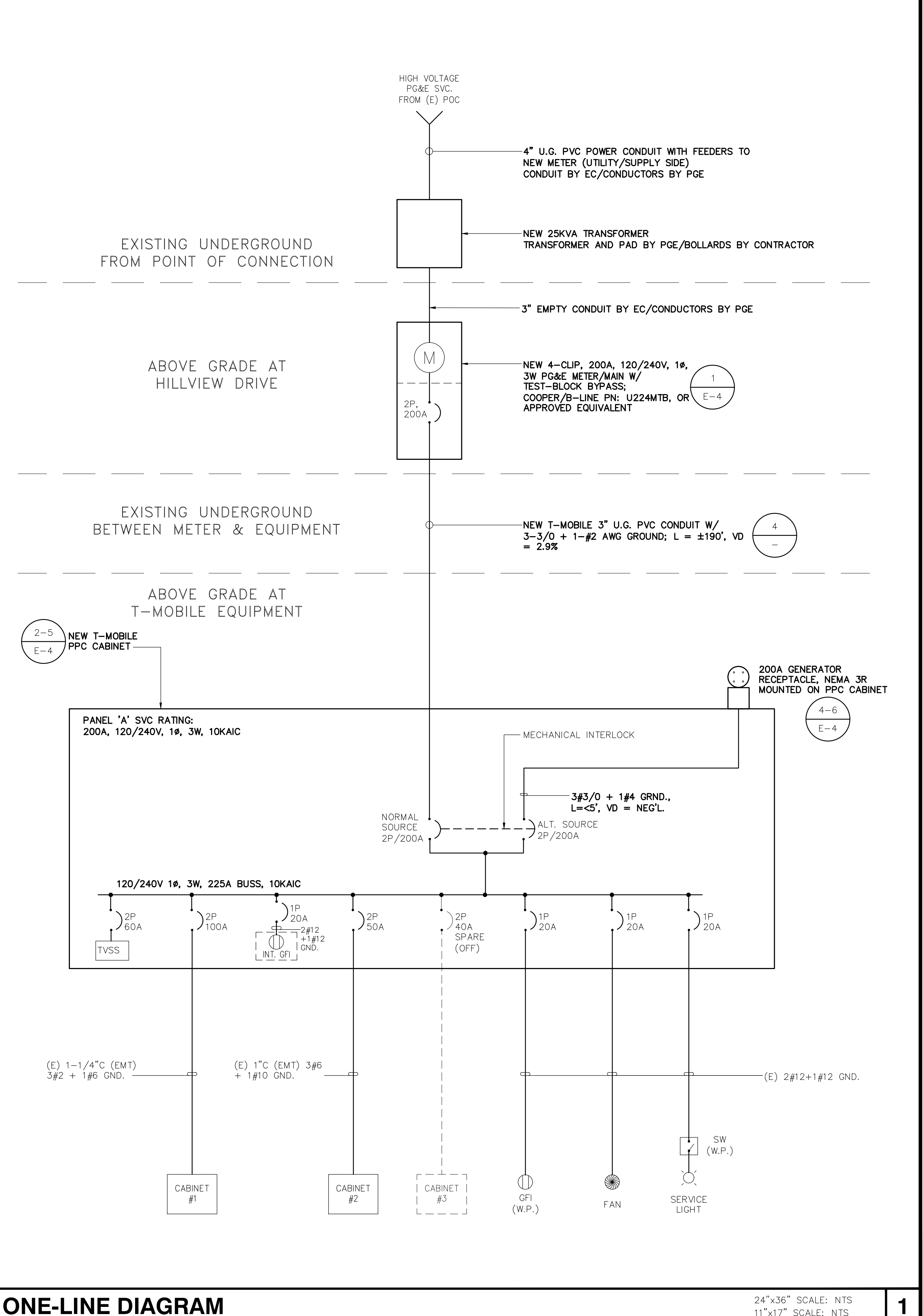
- SUBCONTRACTOR SHALL PROVIDE "200"AMP, SINGLE PHASE, 120/240(OR 120/208) VAC, 60HZ SERVICE FOR THIS T-MOBILE SITE
- SUBCONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION. POWER AND TELEPHONE CONDUIT SHALL BE PROVIDED AND INSTALLED PER UTILITY REQUIREMENTS
- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY PPC MANUFACTURER.
- ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS
- SUBCONTRACTOR SHALL INSTALL 36" OF FLEX CONDUIT WITH ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC.) NECESSARY FOR CONNECTION TO THE EQUIPMENT
- SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY
- 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 10 FOOT PIGTAIL FROM END OF FLEX CONDUIT FOR TERMINATING BY CARRIER REP.
- SUBCONTRACTOR SHALL FURNISH AND INSTALL A PIPE/UNISTRUT FRAME OR SUITABLE PEDESTAL OR WALL-MOUNTS FOR INSTALLATION OF PPC ENCLOSURE AND METER COMPONENTS. SUBCONTRACTOR SHALL FURNISH AND INSTALL SURGE PROTECTION DEVICES (BY: ATLANTIC SCIENTIFIC; ZONE BARRIER SERIES; PART NO.90700 WITH MOUNTING DIN RAIL PART NO. 21607). BOND SURGE PROTECTION DEVICE RAIL TO THE ENCLOSURE WITH #6 AWG INSULATED WIRE. BOND ENCLOSURE TO THE SITE GROUND RING OR BAR WITH #2 AWG COPPER WIRE.
- ALL CONDUCTORS SHALL BE THWN, COPPER 600V. 75° C; U.G. CONDUCTORS SHALL BE WET-RATED
- ALL WORK TO COMPLY WITH TITLE 24 - CAL. CODE OF REGULATIONS, NFPA 70E (NEC 2017) AND OSHA TITLE 29.
- REFER TO PANEL SCHEDULE(S) (2/-) AND ONE-LINE DIAGRAM (1/-) FOR CIRCUIT ARRANGEMENT & WIRING CONNECTION.

MI = MECHANICAL INTERLOCK
RU = RELAY TO MONITOR UTILITY POWER
RG1 = RELAY TO MONITOR GENERATOR #1 POWER

ELECTRICAL NOTES

PPC PANEL 'A'																	
SITE NAME: BA01234A - Hillview PL234 Thomas Cattle Ranch					VOLTAGE: 120/240 V												
					PHASE: 1												
					WIRE: 3												
PANEL DESIGNATION: PPC PANEL 'A'					MAIN BREAKER: 200 AMP												
					BUSS RATING: 225 AMP												
					LOCATION: EXTERIOR SURFACE												
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	USAGE FACTOR	PHASE A VA	PHASE B VA	PHASE A VA	PHASE B VA	USAGE FACTOR	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	INTERNAL TVSS	60	2	ON	400	1.25	500		450		1.25	360	ON	1	20	FIBER AAV FAN	2
3					400	1.25		500		225	1.25	180	ON	1	20	GFI PLUG	4
5	CABINET 1	100	2	ON	7000	1.25	8750		225		1.25	180	ON	1	20	INTERNAL GFI PLUG	6
7					7000	1.25		8750		0			OFF	2	40	SPARE	8
9	CABINET 2	60	2	ON	3800	1.25	4750		0								10
11					3800	1.25		4750		375	1.25	300	ON	1	20	LIGHTS	12
POWER PROTECTION CABINET (NTI #: CAC-PEDI-PPC (MINI) CONTRACTOR TO LABEL WITH: CARRIER I.D. (T-MOBILE), PANEL I.D. (PPC PANEL 'A') FEED SOURCE (NEW-MTR), AND AC PANEL SERVICE RATING (200A, 120/240V, 1-PHASE, 3-WIRE)					1			14675			NOTES: 1. CIRCUITS 13-30 ARE 'SPACE' W/ MFR. METAL TWIST-OFF COVER INTACT 2. ALL LOADS ARE CALCD AS LCL/MCL (DESIGN TO 100% CAPACITY-OK) 3. ALL UNUSED BREAKERS SHALL BE LABELED 'SPARE' & SWITCHED 'OFF'						
					PHASE B TOTAL VA			14600									
					TOTAL KVA			29.28									
					TOTAL AMPS			121.98									

PANEL SCHEDULE



ONE-LINE DIAGRAM

T-Mobile

1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

INFRASTRUCTURE PARTNERS

AZ - CA - CO - ID - NM - NV - TX - UT

23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID: BA01234A

DRAWN BY: CL

CHECKED BY: WR

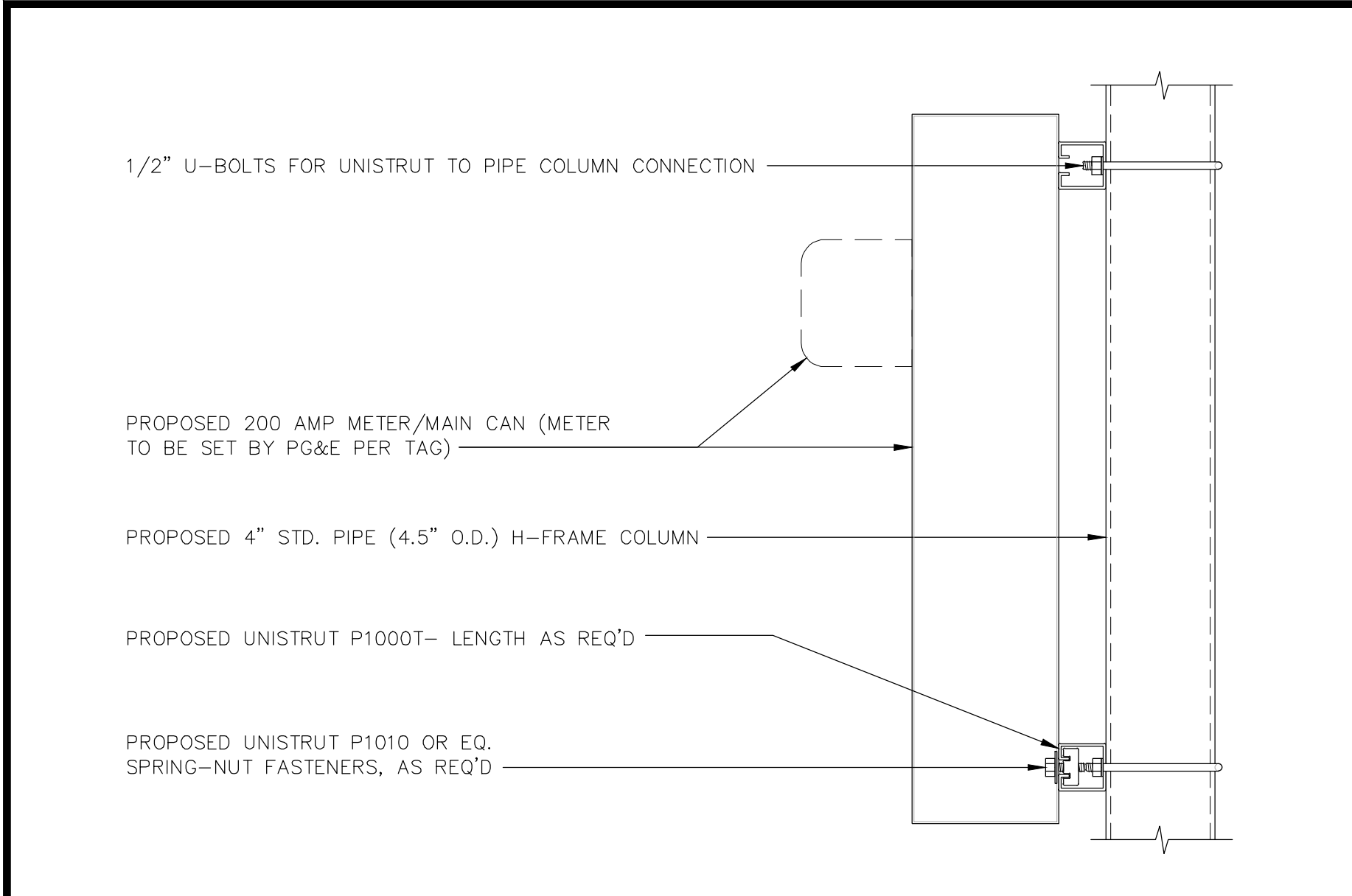
REV	DATE	DESCRIPTION	
10	09/11/2025	SA REDLINES	JDJ
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BA01234A

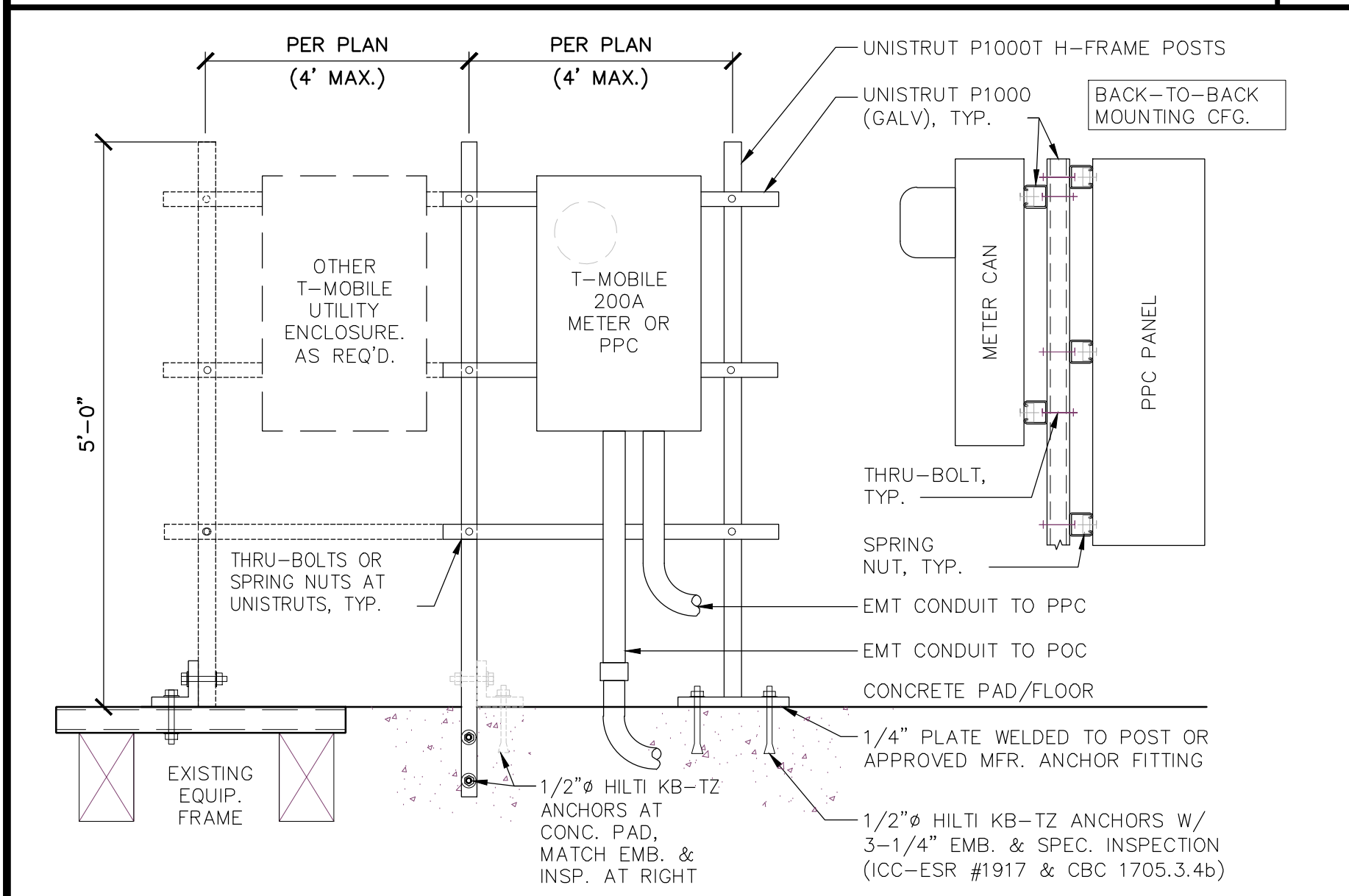
HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE
**ONE-LINE DIAGRAM,
PANEL SCHEDULE &
ELECTRICAL NOTES**

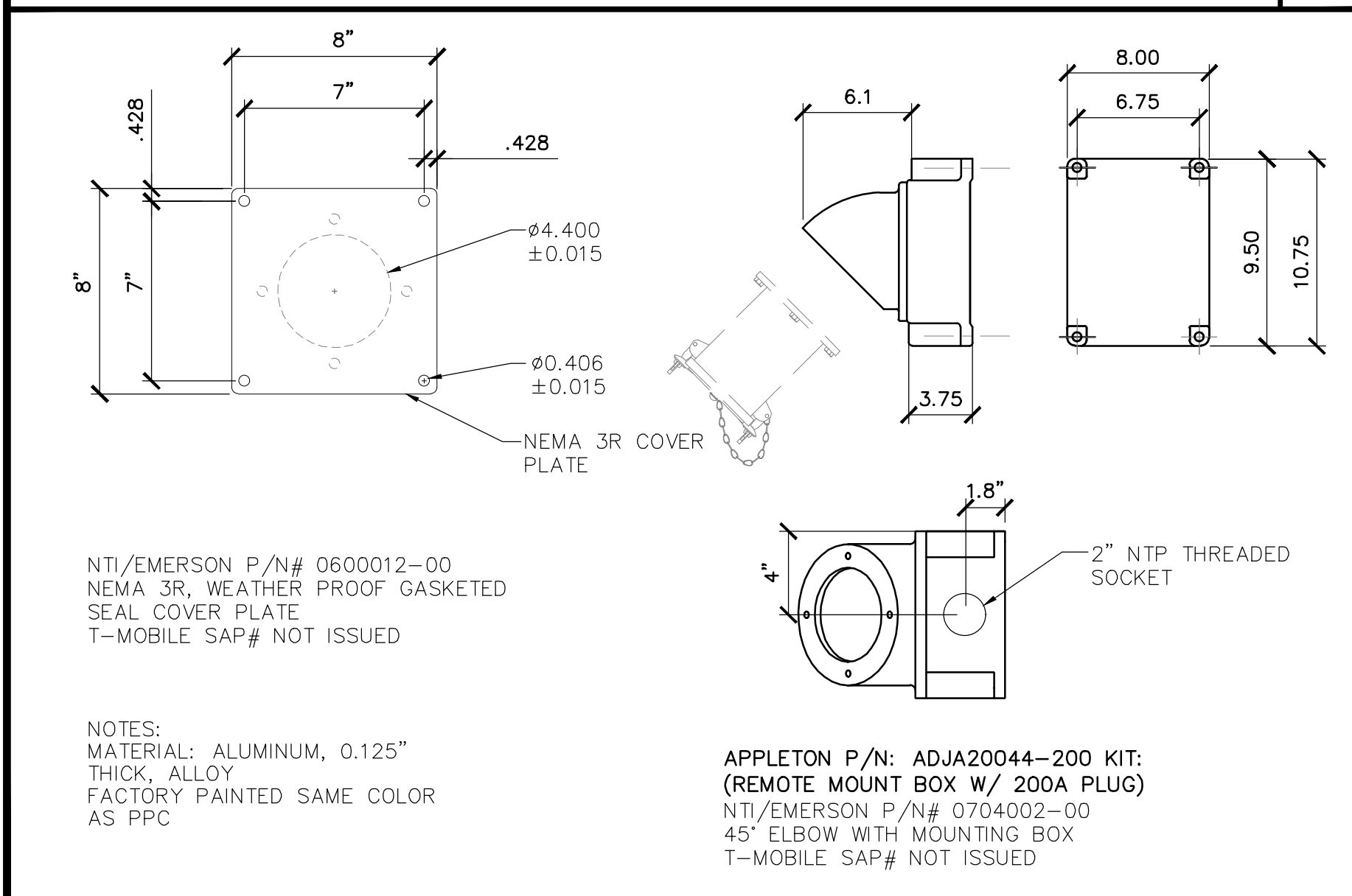
SHEET NUMBER
E-3



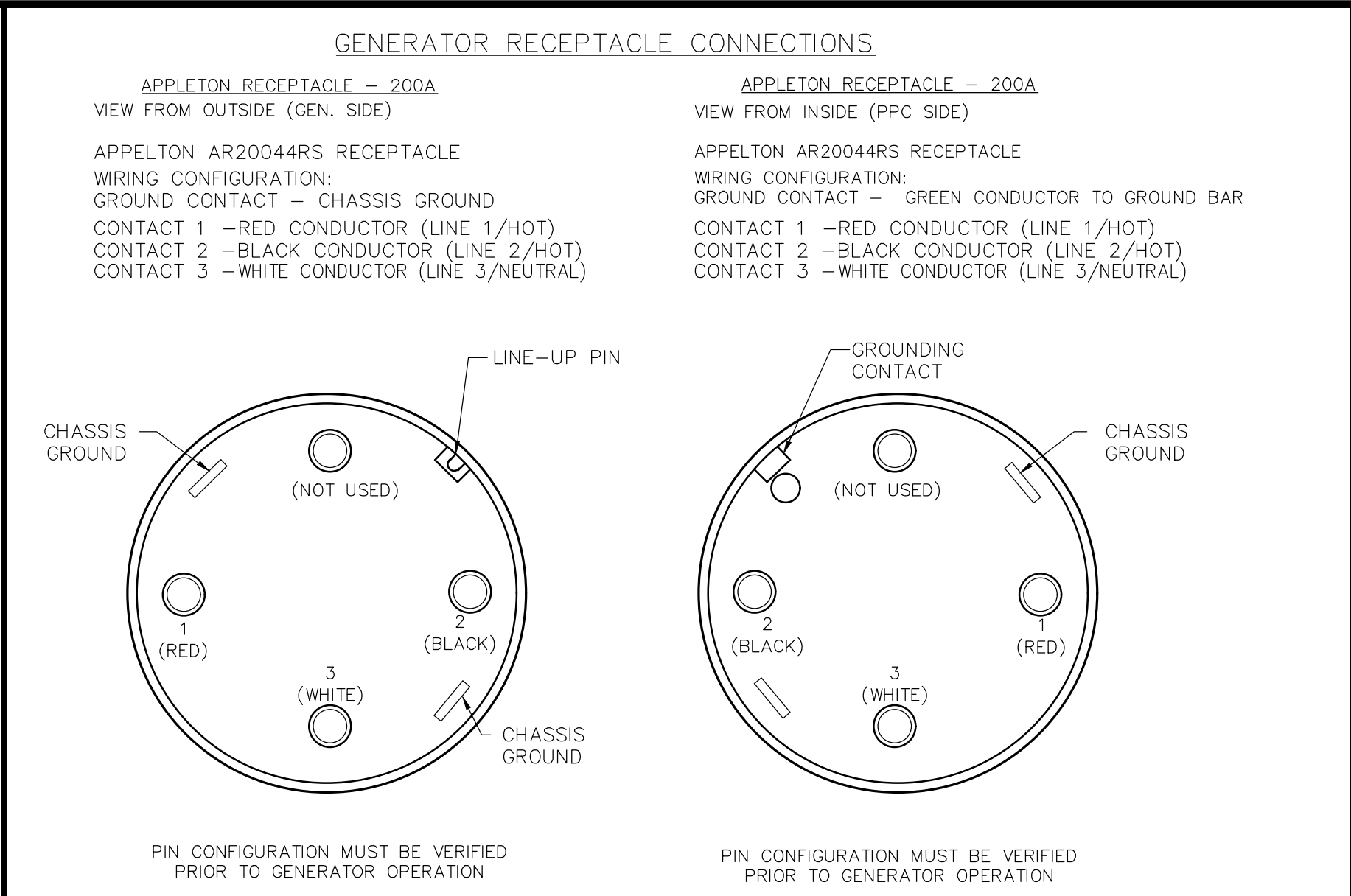
METER/MAIN MOUNTING 24"x36" SCALE: NTS 11"x17" SCALE: NTS



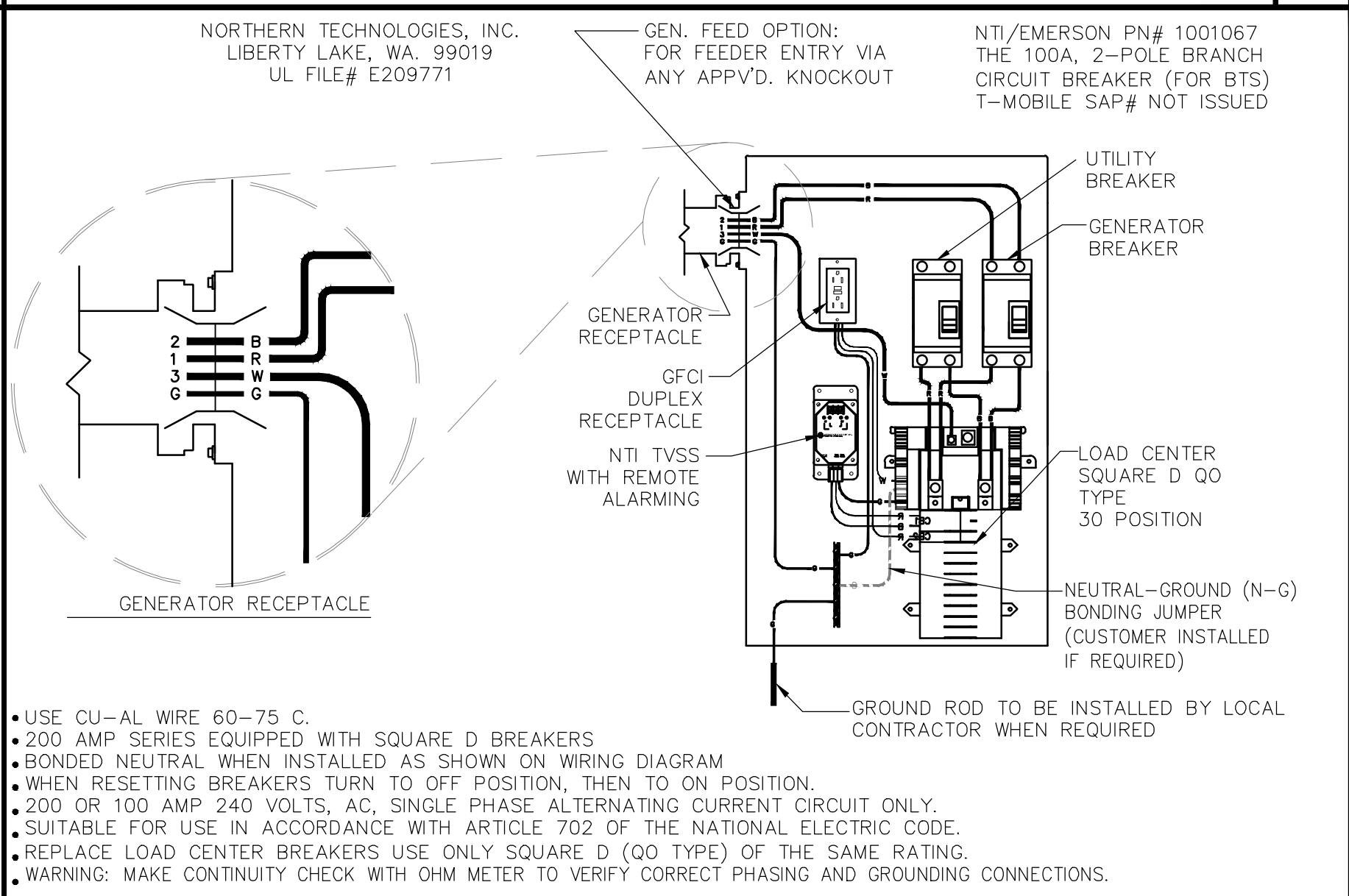
PROPOSED UNISTRUT H-FRAME 24"x36" SCALE: NTS 11"x17" SCALE: NTS



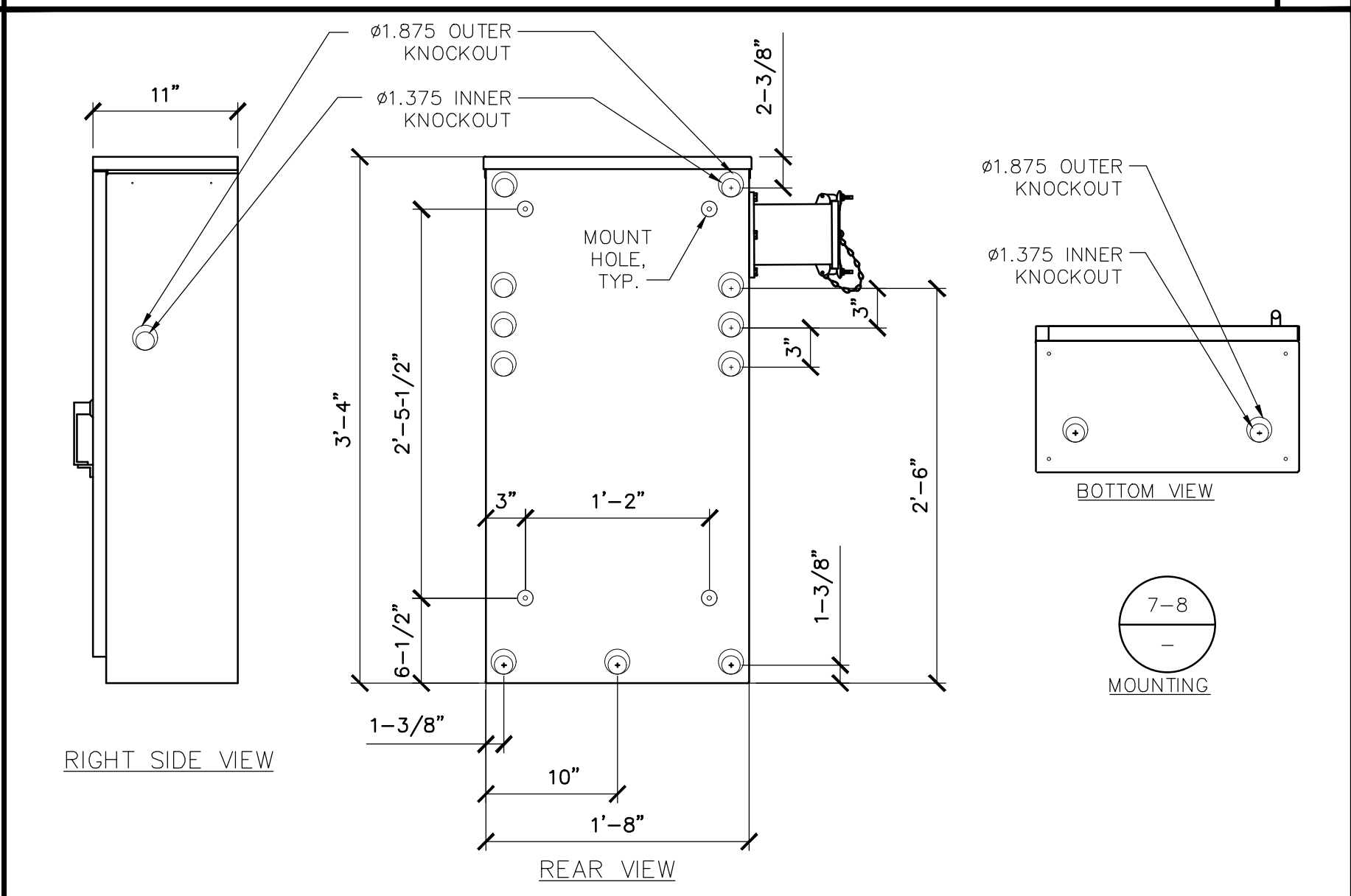
COVER PLATE & REMOTE MOUNT BOX 24"x36" SCALE: NTS 11"x17" SCALE: NTS



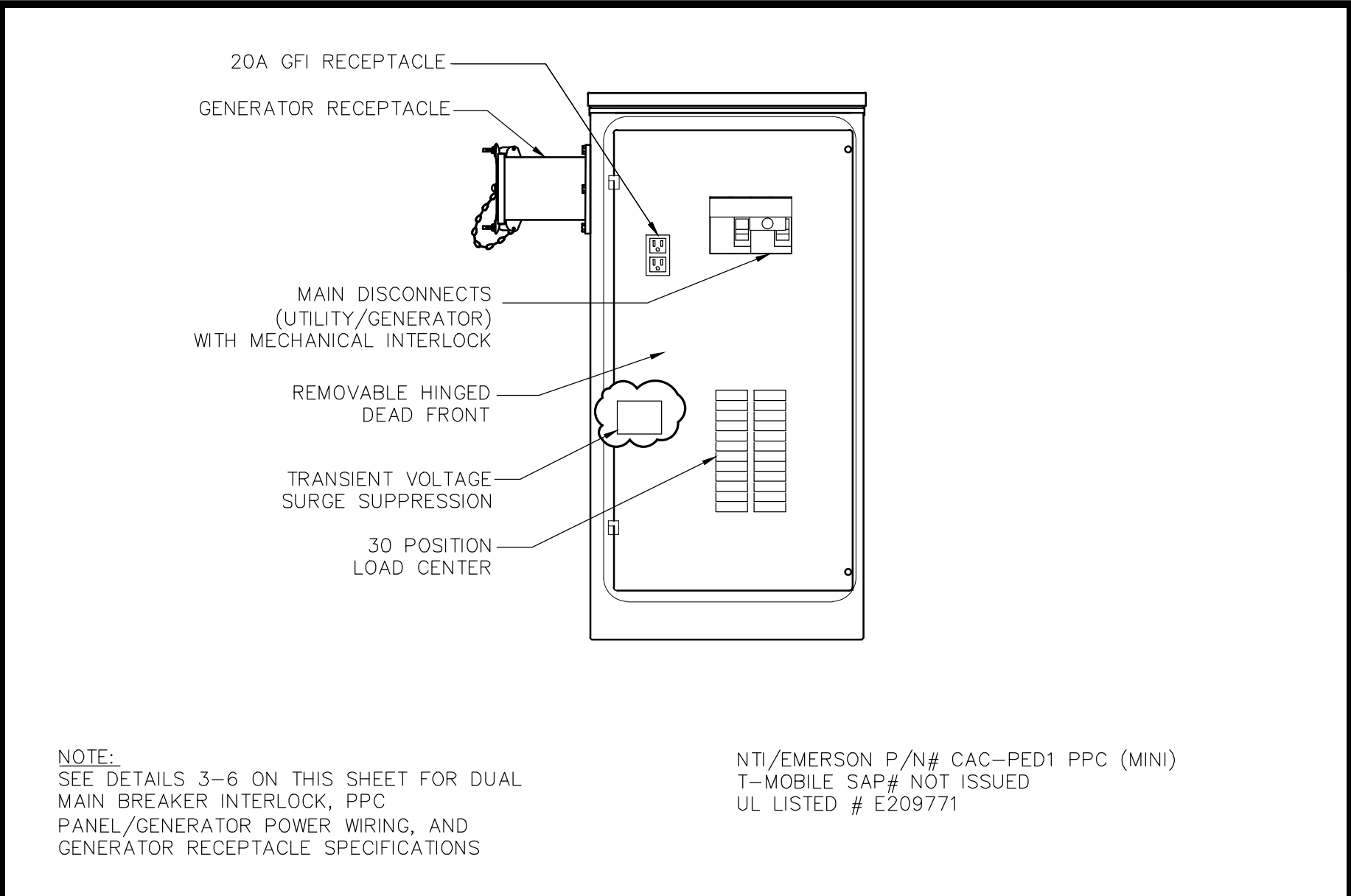
RECEPTACLE PIN-OUT DIAGRAM 24"x36" SCALE: NTS 11"x17" SCALE: NTS



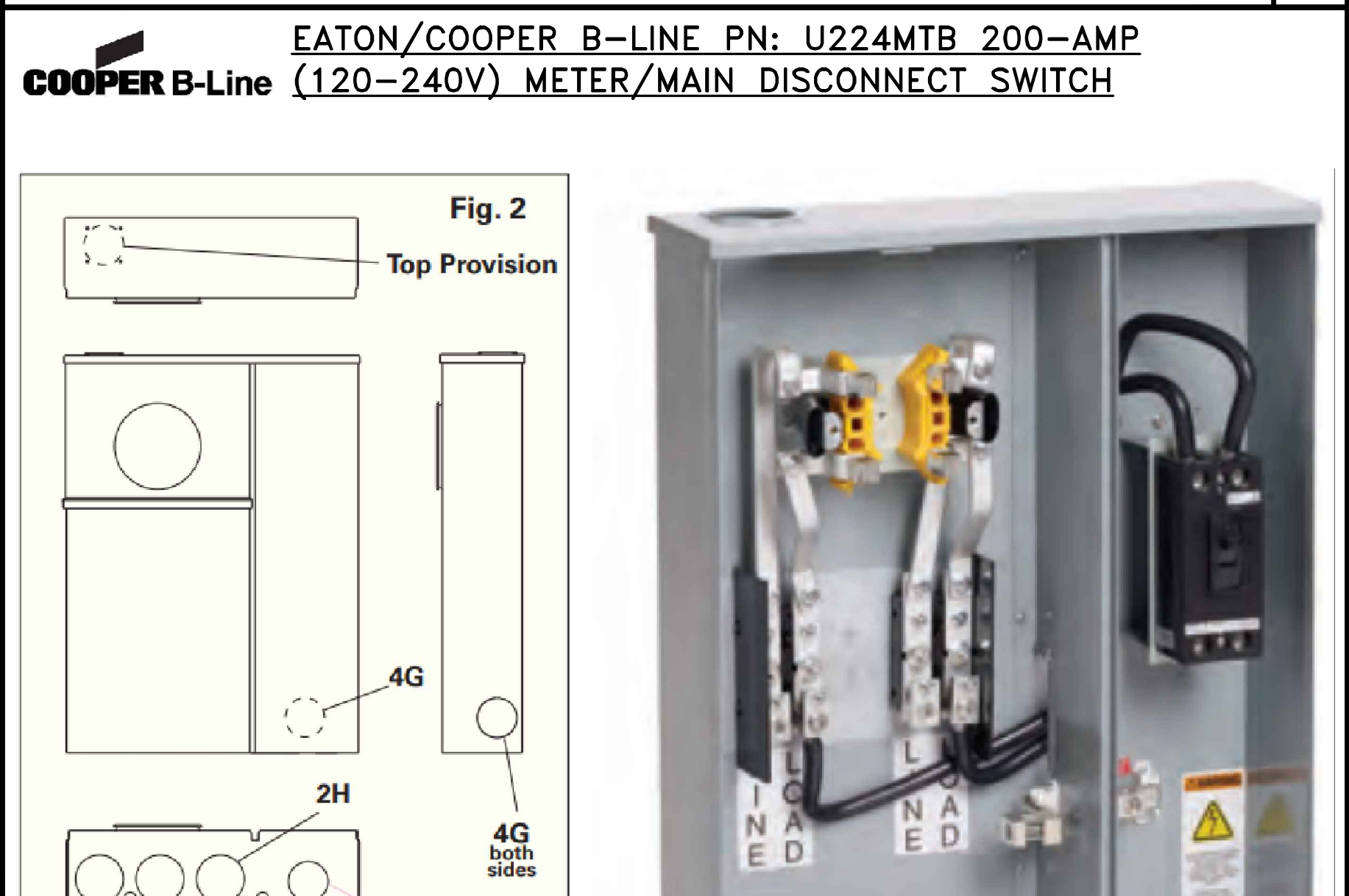
PPC CABINET LAYOUT/WIRING 24"x36" SCALE: NTS 11"x17" SCALE: NTS



PPC CABINET (HOLE LAYOUT) 24"x36" SCALE: NTS 11"x17" SCALE: NTS



PPC CABINET (PPC PANEL 'A') 24"x36" SCALE: NTS 11"x17" SCALE: NTS



METER / MAIN DISCONNECT 24"x36" SCALE: NTS 11"x17" SCALE: NTS

Part/UPC Number	Catalog Number	Amp Rating	Jaws	Service Type	Access	Voltage	Main Breaker AIC	Main	Bypass
78205159065	224 MTB	200	4	10/3W	OH	120/240	10K	(1) 200A, 2P	TB
78205159125	U224 MTB	200	4	10/3W	OH/UG	120/240	10K	(1) 200A, 2P	TB

Part/UPC Number	Catalog Number	Line	Connections Load	Neutral	Height	Overall Dimensions Width	Depth	Top Provision	Knockout Layout
78205159065	224 MTB	#6 - 250 MCM	MCB	#6 - 250 MCM	48"	14"	6"	AW Hub	Fig. 1
78205159125	U224 MTB	#6 - 250 MCM	MCB	#6 - 250 MCM	30"	22"	6"	AW Hub	Fig. 2

METER / MAIN DISCONNECT 24"x36" SCALE: NTS 11"x17" SCALE: NTS

T-Mobile

1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

INFRASTRUCTURE PARTNERS

AZ - CA - CO - ID - NM - NV - TX - UT

23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID: BA01234A

DRAWN BY: CL

CHECKED BY: WR

REV	DATE	DESCRIPTION
10	09/11/2025	SA REDLINES
9	06/10/2025	PPC COMMENTS
8	11/21/2024	REVISED 100s CDs
7	09/19/2024	REVISED 100s CDs
6	06/17/2021	PPC COMMENTS
5	04/24/2024	PPC COMMENTS
4	05/09/2023	UPDATED CODES
3	10/12/2022	EE REVIEW
2	08/22/2022	PANEL RELOCATION
1	12/09/2020	CLIENT COMMENTS
0	10/30/2020	100% CDs FOR SUBMITAL

Licensed Professional Engineer

JEFF ERTLE

E 21680

9/25/2025

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BA01234A

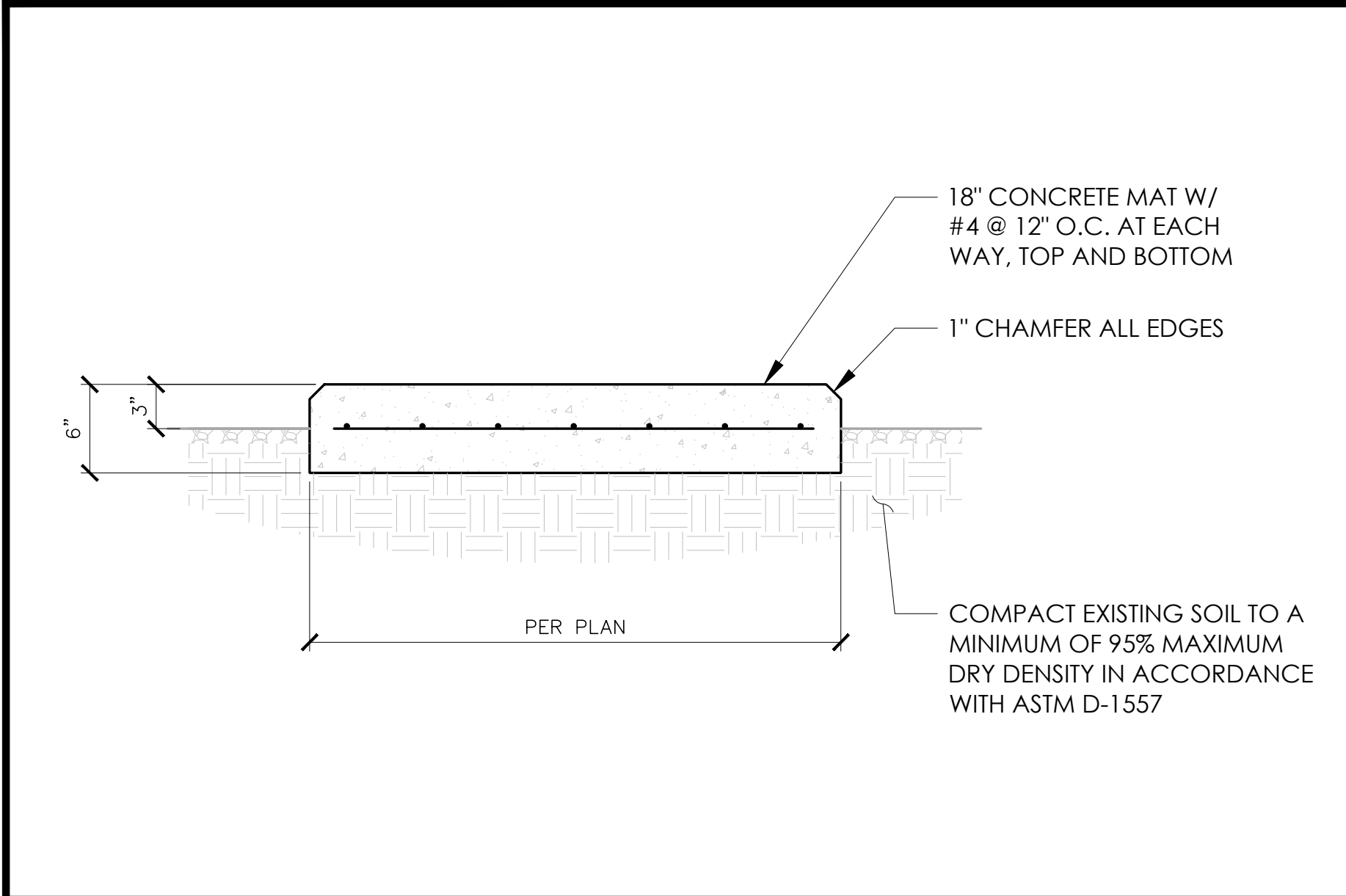
HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE

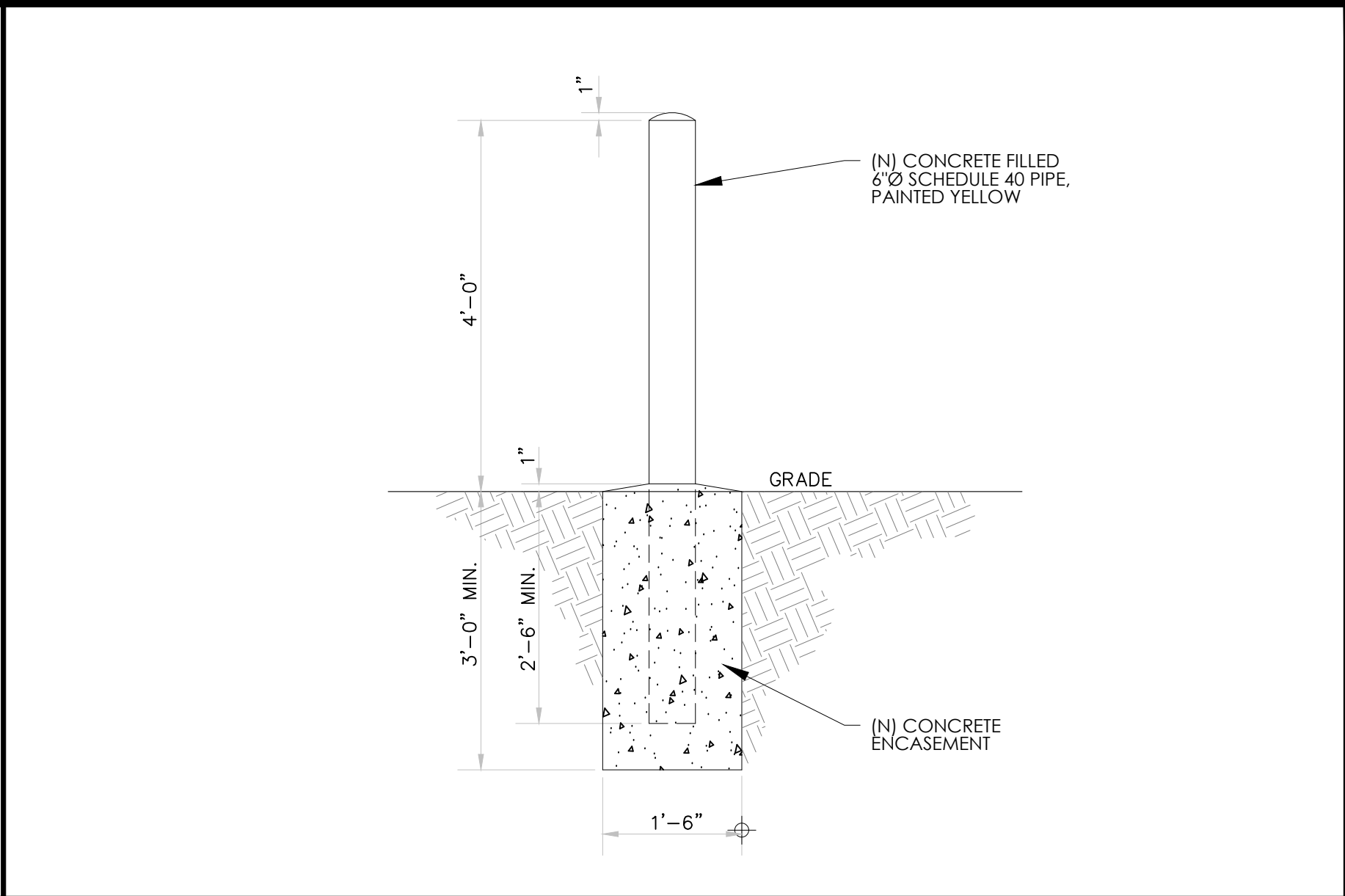
ELECTRICAL DETAILS

SHEET NUMBER

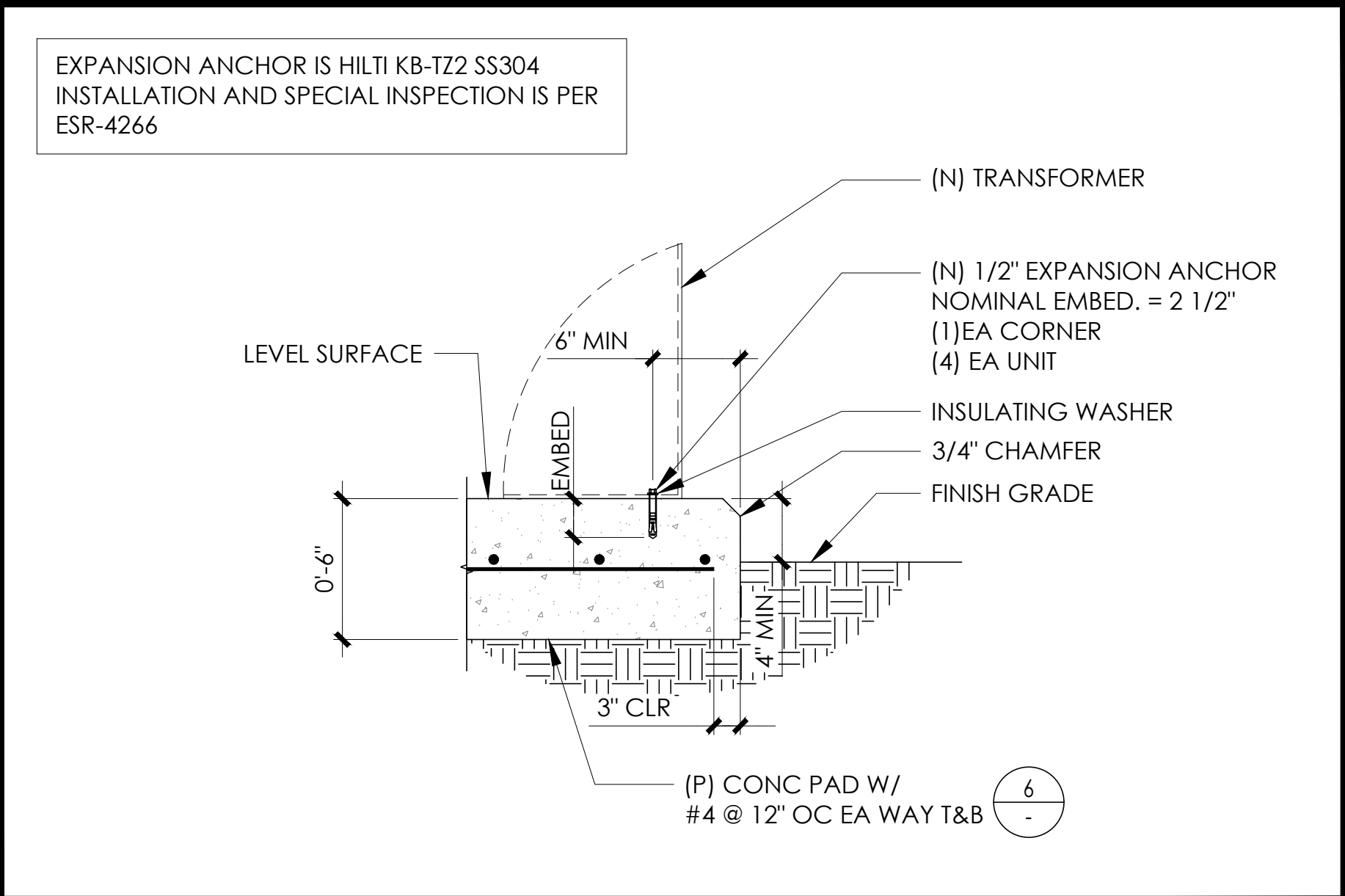
E-4



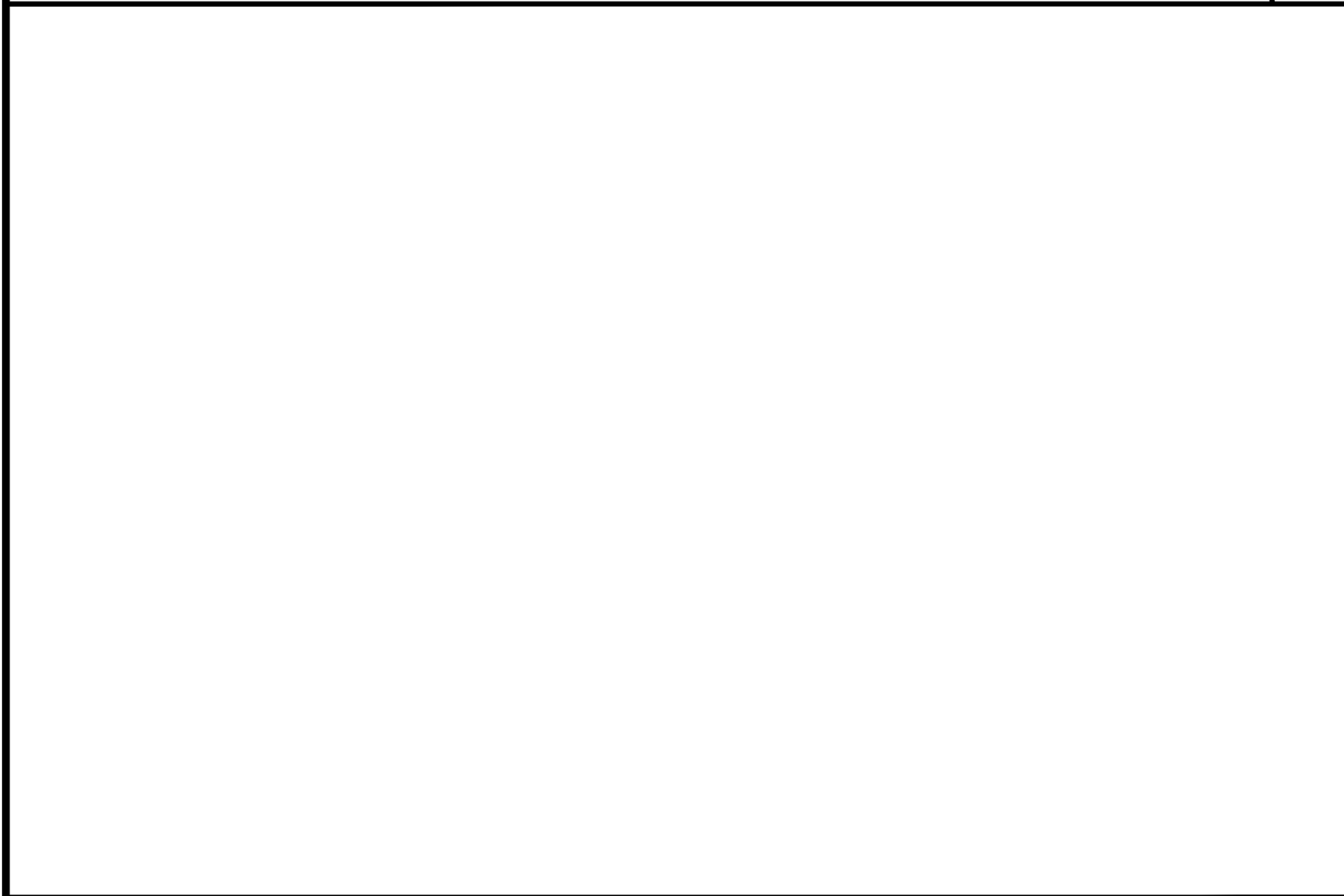
CONCRETE FOUNDATION SECTION6



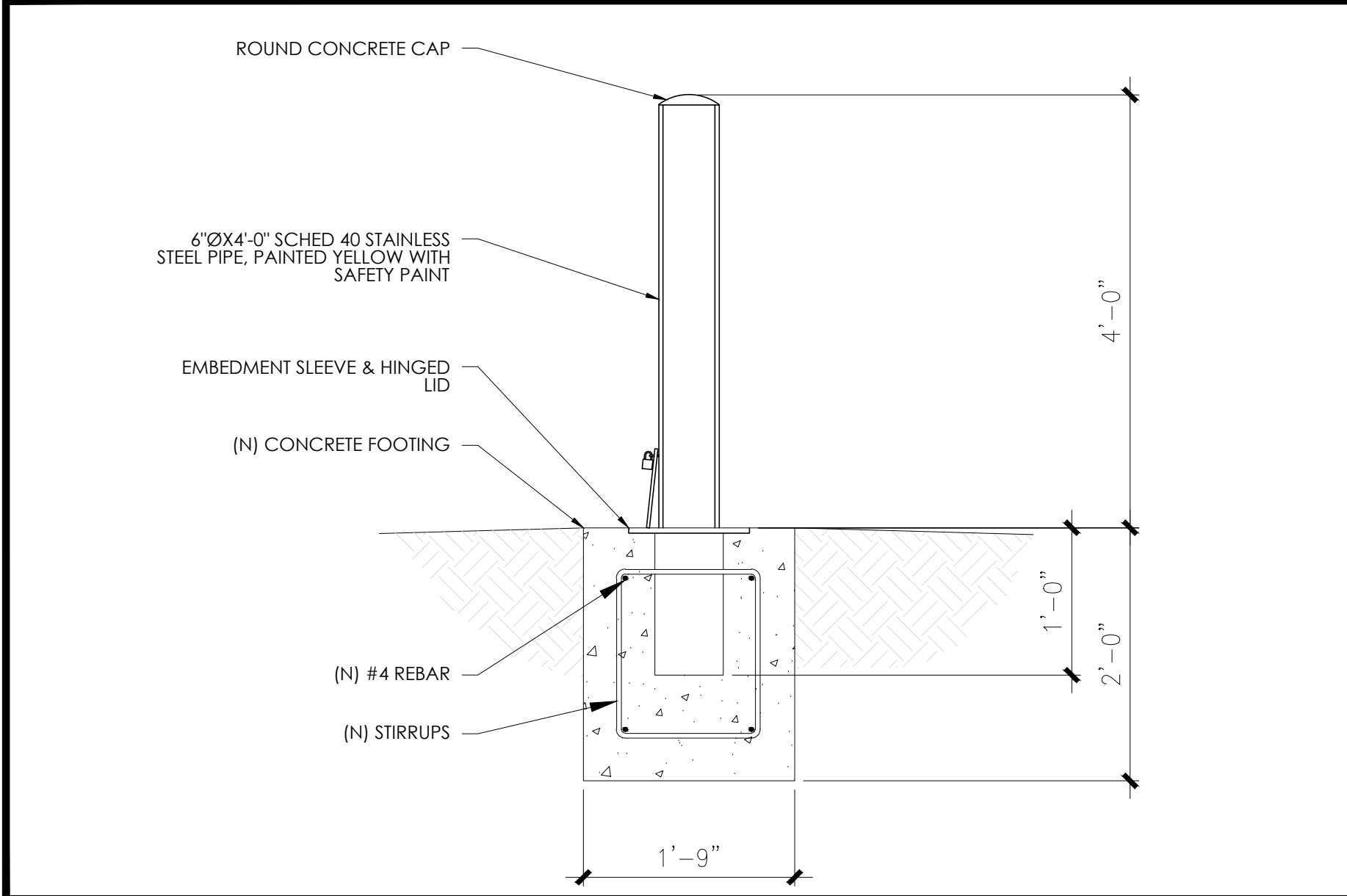
BOLLARD DETAIL3



EQUIPMENT MOUNTING DETAIL2



NOT USED5



REMOVABLE/LOCKING BOLLARD DETAIL4



Overview

Transformer, Dry Type, 25 kVA, 240 x 480 Primary Voltage, 120/240 Secondary Voltage AC, DH1-1 Case, Sentinel

PS Sentinel G general purpose distribution transformers are rated for 600 volts and below. They are generally used for supplying appliance, lighting, heating, motorized machine and power loads from electrical distribution systems.

Also known as: 803423140649, SG3N0025LE, HMDSG3N0025LE

Specifications

Phase:	1	Volt Amps:	25kVA
Type:	Dry Type Transformer	Primary Voltage:	240/480
Secondary Voltage:	120/240		

TRANSFORMER SPECIFICATIONS

MANUFACTURER: HPS SENTINEL
TRANSFORMER, DRY TYPE, 25KVA, 240x480
PRIMARY, 120/240 SECONDARY, DH1-1 CASE
SENTINEL
MODEL: CAT #SG3N0037LE
WIRING DIAGRAM: SCD 17
HEIGHT: 26.70 IN
WIDTH: 22.30 IN
DEPTH: 23.80 IN

WEIGHT: 210 LBS

NOTES:
1. TRANSFORMER WILL BE PAINTED TO BLEND WITH LANDSCAPE (E.G., BEIGE OR SIMILAR).

25KVA TRANSFORMER SPECIFICATIONS1

1855 GATEWAY BLVD., 9th FLOOR
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IRVINE, CA 92618

PROJECT ID: BA01234A

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7	09/19/2024	REVISED 100s CDs	BH
6	06/17/2021	PPC COMMENTS	MA
5	04/24/2024	PPC COMMENTS	JDJ
4	05/09/2023	UPDATED CODES	WR
3	10/12/2022	EE REVIEW	CL
2	08/22/2022	PANEL RELOCATION	NC
1	12/09/2020	CLIENT COMMENTS	SS
0	10/30/2020	100% CDs FOR SUBMITTAL	SS

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BA01234A
HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE
DETAILS

SHEET NUMBER
E-5

T-Mobile

1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

IS INFRASTRUCTURE
PARTNERS
AZ - CA - CO - ID - NM - NV - TX - UT

23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID: BAO1234A

DRAWN BY: CL

CHECKED BY: WR

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1	12/09/2020	CLIENT COMMENTS	SS
0	10/30/2020	100% CD'S FOR SUBMITTAL	SS



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HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE
ELEVATIONS

SHEET NUMBER
E-6

TOP OF EXISTING SELF SUPPORT TOWER
83'-9" AGL

O/H O/H O/H O/H O/H O/H O/H
O/H O/H O/H O/H O/H O/H O/H
O/H O/H O/H O/H O/H O/H O/H

RAD. CENTER OF (E) T-MOBILE ANTENNAS
46'-0" AGL

EXISTING ANTENNAS BY OTHERS

EXISTING FTP BOX

EXISTING CIENA BOX

EXISTING TELCO BOX

EXISTING EQUIPMENT CABINET

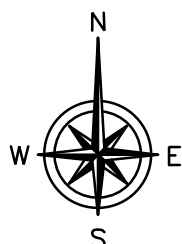
EXISTING EQUIPMENT CABINET

EXISTING SUB PANEL & METER ANTENNA

EXISTING GPS ANTENNA

EXISTING SHUT-DOWN INSTRUCTIONS

GROUND LEVEL
0'-0" AGL



EXISTING NORTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



2

TOP OF EXISTING SELF SUPPORT TOWER
83'-9" AGL

O/H O/H O/H O/H O/H O/H O/H
O/H O/H O/H O/H O/H O/H O/H
O/H O/H O/H O/H O/H O/H O/H

RAD. CENTER OF (E) T-MOBILE ANTENNAS
46'-0" AGL

EXISTING ANTENNAS BY OTHERS

EXISTING FTP BOX

EXISTING CIENA BOX

EXISTING TELCO BOX

EXISTING EQUIPMENT CABINET

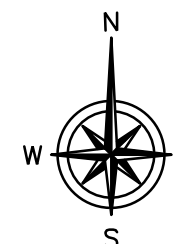
EXISTING EQUIPMENT CABINET

EXISTING SUB PANEL & METER ANTENNA

EXISTING GPS ANTENNA

EXISTING SHUT-DOWN INSTRUCTIONS

GROUND LEVEL
0'-0" AGL



24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



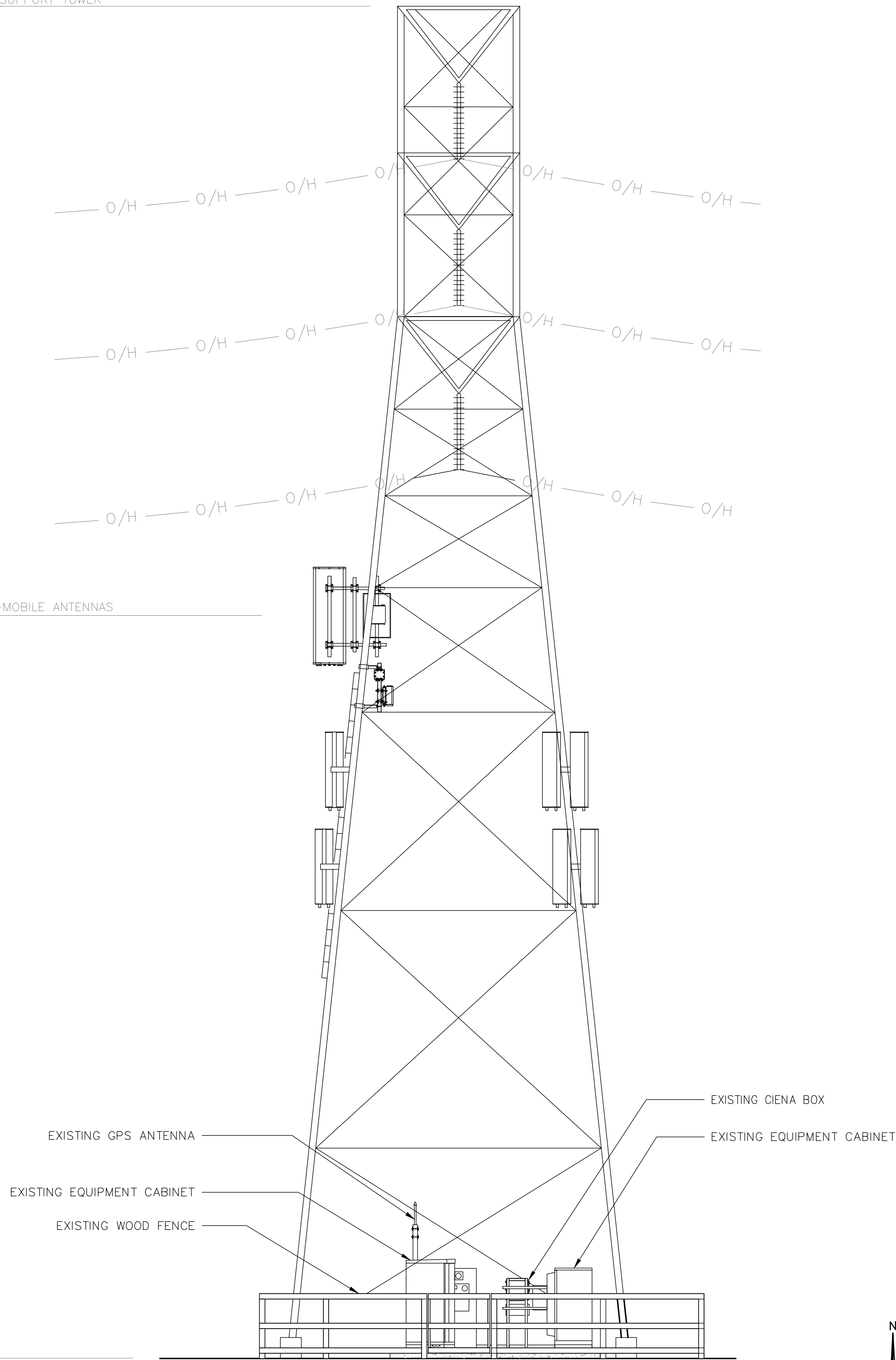
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NEW NORTH ELEVATION

TOP OF EXISTING SELF-SUPPORT TOWER
83'-9" AGL

RAD. CENTER OF (E) T-MOBILE ANTENNAS
46'-0" AGL

GROUND LEVEL
0'-0" AGL



EXISTING SOUTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

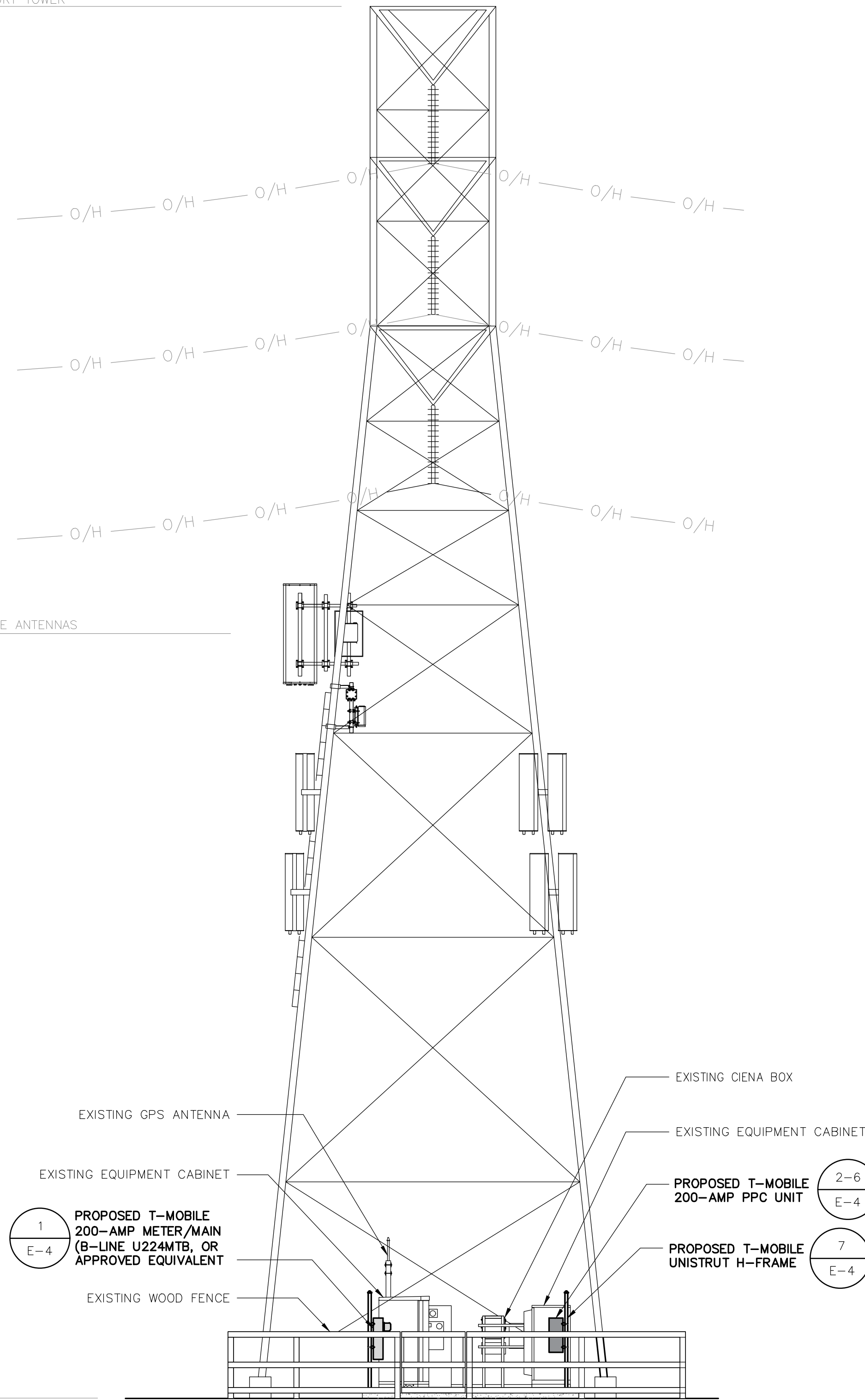


2

TOP OF EXISTING SELF-SUPPORT TOWER
83'-9" AGL

RAD. CENTER OF (E) T-MOBILE ANTENNAS
46'-0" AGL

GROUND LEVEL
0'-0" AGL



NEW SOUTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



1

T-Mobile
1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

INFRASTRUCTURE PARTNERS
AZ - CA - CO - ID - NM - NV - TX - UT
23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID: BA01234A
DRAWN BY: CL
CHECKED BY: WR

REV	DATE	DESCRIPTION	
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2	08/22/2022	PANEL RELOCATION	NC
1	12/09/2020	CLIENT COMMENTS	SS
0	10/30/2020	100% CD'S FOR SUBMITTAL	SS



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BA01234A
HILLVIEW PL234 THOMAS CATTLE RANCH
4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE
ELEVATIONS

SHEET NUMBER
E-7

T-Mobile

1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

IS INFRASTRUCTURE
PARTNERS
AZ - CA - CO - ID - NM - NV - TX - UT

23 MAUCHLY, SUITE 110
IRVINE, CA 92618

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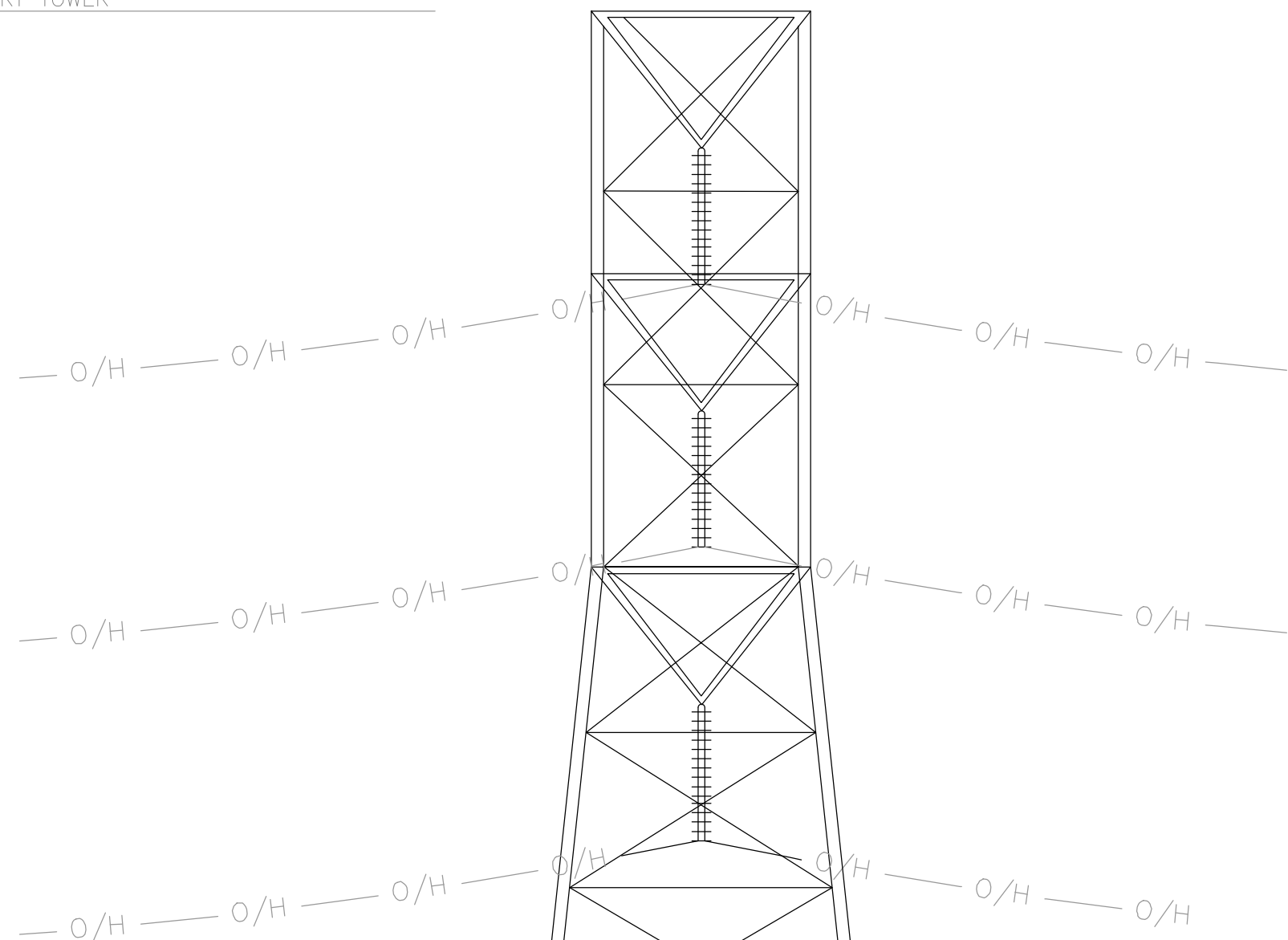
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CONTRA COSTA COUNTY

SHEET TITLE
ELEVATIONS

SHEET NUMBER
E-8

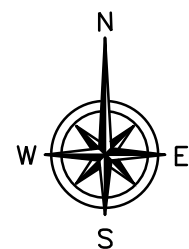
TOP OF EXISTING SELF SUPPORT TOWER
83'-9" AGL



RAD. CENTER OF (E) T-MOBILE ANTENNAS
46'-0" AGL

EXISTING EQUIPMENT CABINET
EXISTING WOOD FENCE
EXISTING T-MOBILE 100-AMP
AC PANEL (PEDESTAL)
TO BE REMOVED & REPLACED
EXISTING GPS ANTENNA
EXISTING TELCO BOX

GROUND LEVEL
0'-0" AGL



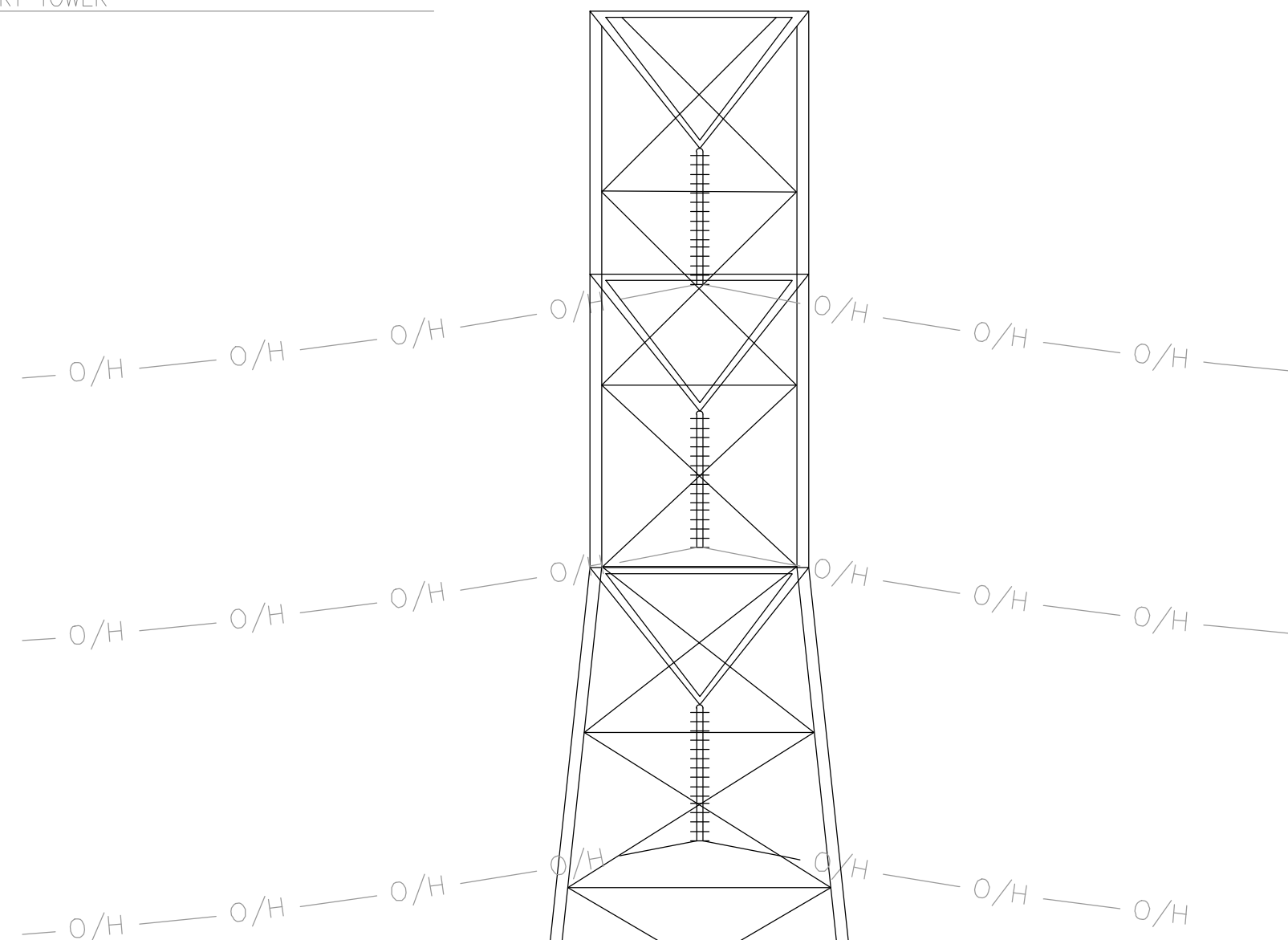
EXISTING EAST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



2

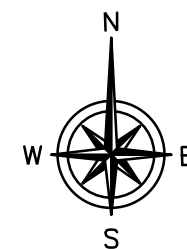
TOP OF EXISTING SELF SUPPORT TOWER
83'-9" AGL



RAD. CENTER OF (E) T-MOBILE ANTENNAS
46'-0" AGL

EXISTING EQUIPMENT CABINET
EXISTING WOOD FENCE
PROPOSED T-MOBILE
200-AMP PPC UNIT
PROPOSED T-MOBILE
UNISTRUT H-FRAME
EXISTING GPS ANTENNA
EXISTING TELCO BOX

GROUND LEVEL
0'-0" AGL



NEW EAST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



1

T-Mobile

1855 GATEWAY BLVD., 9th FLOOR
CONCORD, CA 94520

IS INFRASTRUCTURE
PARTNERS
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4500 HILLVIEW DRIVE
PITTSBURG, CA 94501
CONTRA COSTA COUNTY

SHEET TITLE

ELEVATIONS

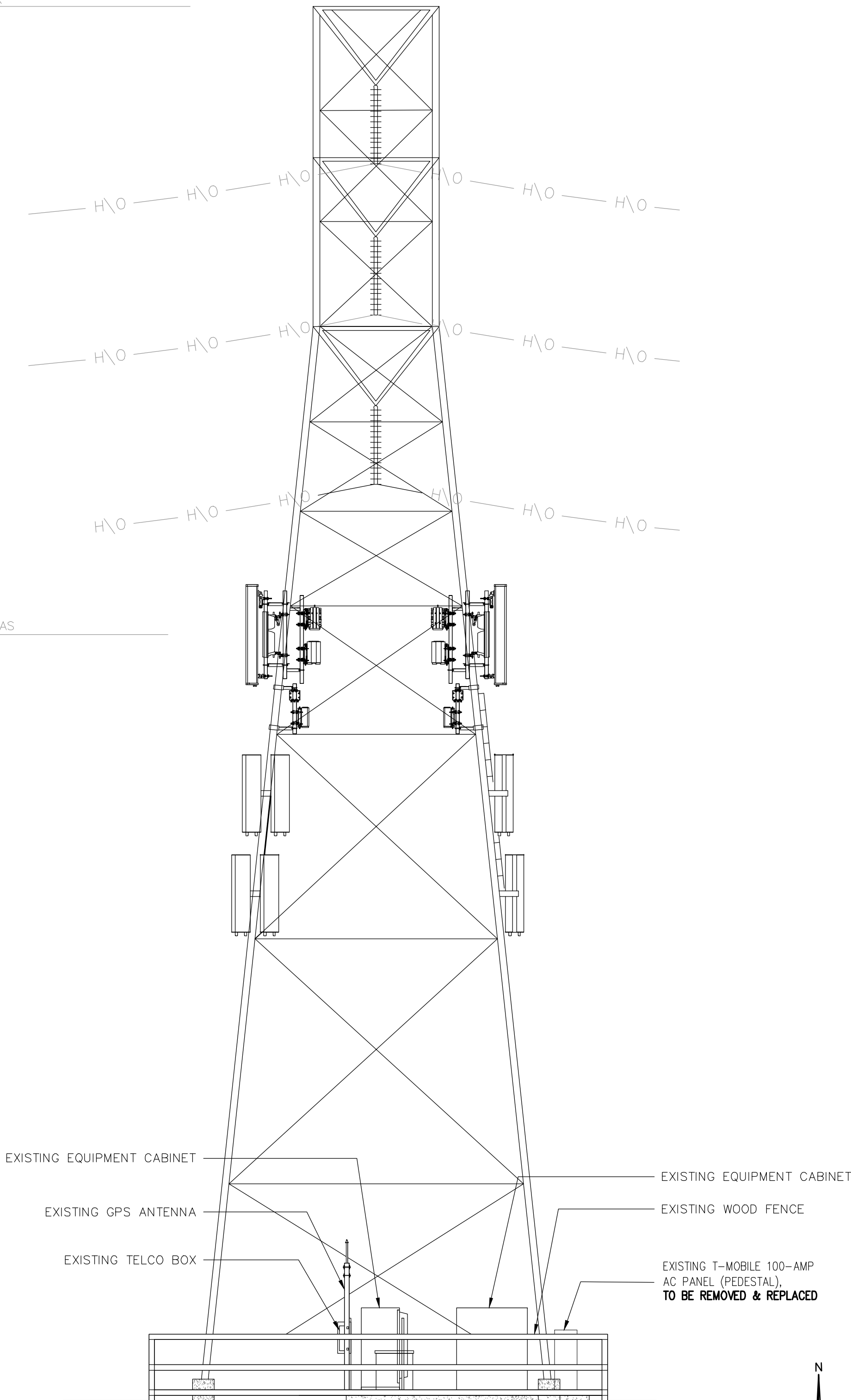
SHEET NUMBER

E-9

TOP OF EXISTING SELF-SUPPORT TOWER
83'-9" AGL

RAD. CENTER OF (E) T-MOBILE ANTENNAS
46'-0" AGL

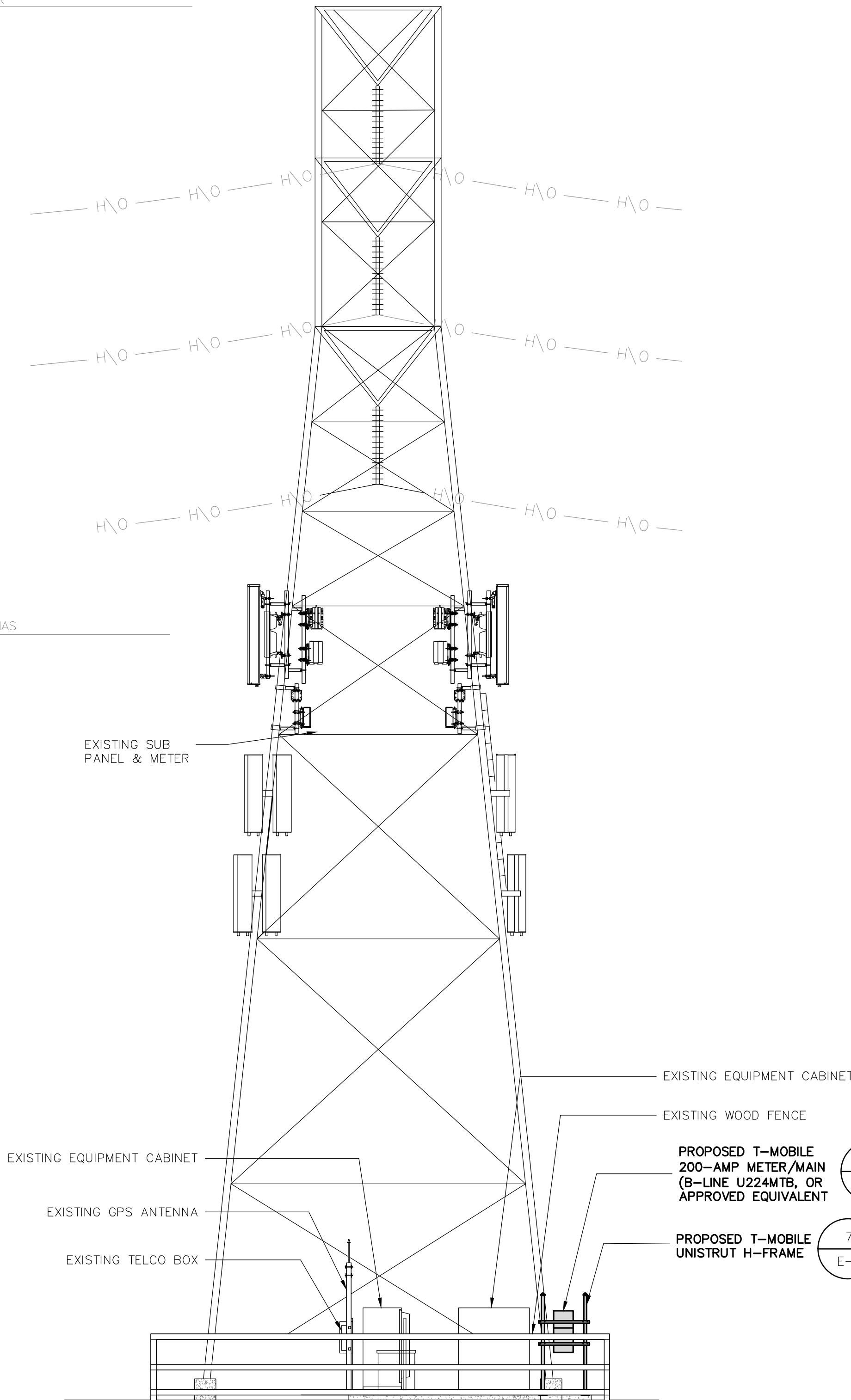
GROUND LEVEL
0'-0" AGL



TOP OF EXISTING SELF-SUPPORT TOWER
83'-9" AGL

RAD. CENTER OF (E) T-MOBILE ANTENNAS
46'-0" AGL

GROUND LEVEL
0'-0" AGL



EXISTING WEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



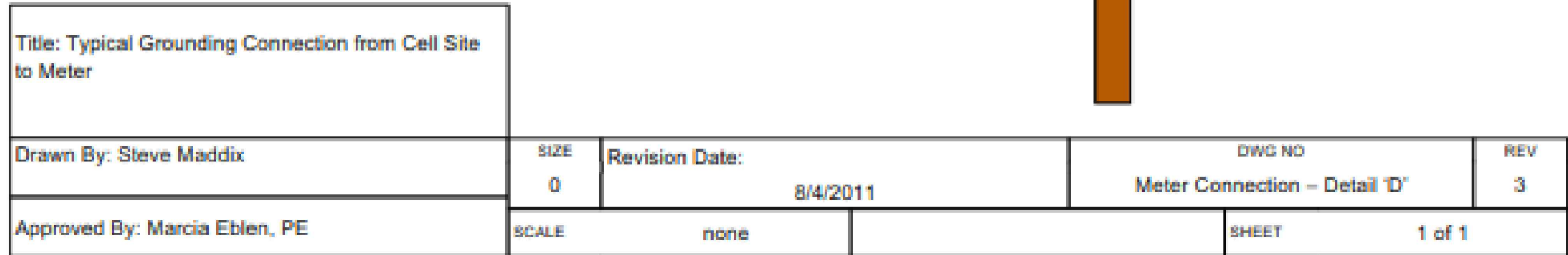
2

NEW WEST ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



1



3

SEE DETAIL 'D' FOR
METER GROUNDING

A horizontal number line with three points marked. From left to right, the points are labeled $2'$, $1'$, and $0''$. The line is divided into segments by these points.

1

E-10

8" Inside diameter pre-cast
concrete well with non-
conductive lid or equivalent

- 250 MCM BCW Pigtail for Emergency Generator Connection

Existing Grade

1'-0"

1'-6"

¾" Crushed Stone
Fill Test Well Just Below
the Top of T Connector

250 MCM BCW Connected Back to
Site Ground Grid

10'x5/8" copper clad ground rod

Title: Typical Test Well for Emergency Generator Connection

Redrawn By: Greg Chang

SIZE
0

Revision Date: 3/24/2022

DWG NO
Emergency Generator Grounding Test Well
Detail 'J'

REV
1

SCALE

none

SHEET

1 of 1

METER GROUNDING DETAIL

3	NOT USED
---	----------

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

1



23 MAUCHLY, SUITE 110
IRVINE, CA 92618

PROJECT ID:	BA01234A
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CHECKED BY:	WR

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CONTRA COSTA COUNTY

SHEET TITLE
GROUNDING PLAN
AND NOTES

SHEET NUMBER

E-11