

AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

PROJECT DESCRIPTION
NEW 200'-0"
SELF SUPPORT TOWER



AT&T SIGNATURES

SITE INFORMATION

SITE ADDRESS: 1320 SW MARTHA ST
ARCADIA, FL 34266
COUNTY: DESOTO COUNTY
LATITUDE (NAD 83): N 27° 11' 23.3905" (27.1898307°)
LONGITUDE (NAD 83): W 81° 51' 57.2163" (-81.8658934°)
GROUND ELEVATION: 47.61' AMSL
ZONING: A-5
PARCEL/MAP NUMBER: 12-38-24-0000-0096-0000
PARCEL OWNER: BERNARDO HERNANDEZ-VILLANUEVA
AND ISAIAS HERNANDEZ
TOWER OWNER: TILLMAN INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019
PHONE: (212) 706-1677
EMAIL: contact@tillman.com
STRUCTURE TYPE: SELF SUPPORT TOWER
STRUCTURE HEIGHT (FT): 200'-0"
POWER PROVIDER: JEA
PHONE: 1-904-665-6250
FIBER PROVIDER: AT&T
PHONE: 1-866-326-1402

PROJECT TEAM

TOWER OWNER / APPLICANT: TILLMAN INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019
PHONE: (212) 706-1677
EMAIL: contact@tillmanglobal.com
A+E FIRM: ALLPRO CONSULTING GROUP, INC.
9221 LYNDON B. JOHNSON FREEWAY
SUITE 204
DALLAS, TX 75243
CONTACT: CHIYU ZHANG, P.E.
OFFICE: 972-231-8893
FAX: 866-364-8375

VICINITY MAP



DIRECTIONS

DIRECTION FROM SOUTHWEST FLORIDA INTERNATIONAL AIRPORT, 11000 TERMINAL ACCESS ROAD, FORT MYERS, FL 33913:
DRIVE NORTHEAST. TURN LEFT ONTO REGIONAL LANE. TURN LEFT ONTO CHAMBERLIN PARKWAY. TURN LEFT ONTO DANIELS PARKWAY/CR 876. TAKE THE I 75 NORTH RAMP TOWARD TAMPA. TAKE EXIT 164 ONTO DUNCAN ROAD TOWARD PUNTA GORDA/ARCADIA. KEEP RIGHT TO TAKE DUNCAN ROAD. TURN RIGHT ONTO SOUTHWEST HILLCREST STREET. TURN RIGHT ONTO SOUTHWEST ROBIN ROAD. TURN RIGHT ONTO SOUTHWEST MILDRED STREET. TURN LEFT ONTO SOUTHWEST SARA AVENUE. TURN RIGHT ONTO SOUTHWEST MARTHA STREET. YOU HAVE ARRIVED AT YOUR DESTINATION.

CODE COMPLIANCE

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 THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2023 FLORIDA BUILDING CODE (2021 IBC AMENDED)
- 2020 NATIONAL ELECTRICAL CODE
- NFPA 37 (STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND GAS TURBINES)
- TOWER IS DESIGNED FOR 144 MPH BASIC AND 30 MPH WIND SPEED WITH 0" ICE, RISK CATEGORY II AND EXPOSURE CATEGORY C



DRAWING INDEX

SHEET NO.	DESCRIPTION	REVISION
T-1	TITLE SHEET	0
1 OF 1	RAWLAND TOWER SURVEY	0
C-1	SITE PLAN	0
C-1A	ENLARGED SITE PLAN	0
C-2	COMPOUND PLAN	0
C-2A	GRADING PLAN	0
C-2B	IMPERVIOUS COVER EXHIBIT	0
C-2C	EXISTING DRAINAGE AREA MAP	0
C-2D	PROPOSED DRAINAGE AREA MAP	0
C-3	ELEVATION	0
C-4	GRADING DETAILS	0
C-5	EROSION CONTROL DETAILS	0
C-6 - C-6.1	FENCE LAYOUT & DETAILS	0
C-7 - C-7.1	AT&T SITE SIGNAGE DETAILS	0
C-8	CATTLE GUARD DETAILS	0
D-1	EQUIPMENT LAYOUT & DETAILS	0
D-2	ANTENNA LAYOUT	0
D-3	VWUC SPECIFICATIONS	0
D-4	EQUIPMENT DETAILS	0
D-5	ANTENNA AND RRH PLATFORM SPECIFICATIONS	0
D-6	GENERATOR SPECIFICATIONS	0
D-6.1	GENERATOR TANK SPECIFICATION	0
D-7	EQUIPMENT CONCRETE PAD AND DETAILS	0
E-1	UTILITY PLAN	0
E-1A	ENLARGED UTILITY PLAN	0
E-2	ELECTRICAL PANEL SCHEDULE, DIAGRAM AND NOTES	0
E-3	ELECTRICAL RISER DIAGRAM	0
G-1	GROUNDING PLANS	0
G-2	EQUIPMENT GROUNDING PLAN AND RISER DIAGRAM	0
G-3	GROUNDING DETAILS AND NOTES	0
G-4	GROUNDING DETAILS	0
GN-1	GENERAL NOTES	0
GN-2	GENERAL NOTES	0
GN-3	GENERAL NOTES	0
GN-4	GENERAL NOTES	0
L-1	LANDSCAPE PLAN	0

DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"x34" AND HALF SIZE AT 11"x17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

SCOPE OF WORK

- THIS PROJECT CONSISTS OF:
- NEW 60'-0"x60'-0" 6' CHAIN-LINK FENCED COMPOUND INSIDE NEW 100'-0"x100'-0" LEASE AREA
 - NEW 200'-0" TALL SELF SUPPORT TOWER
 - NEW AT&T VWUC & GENERATOR ON 9'-6"x12'-0" CONCRETE PAD
 - NEW AT&T ANTENNAS ON SELF SUPPORT TOWER



CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363

SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

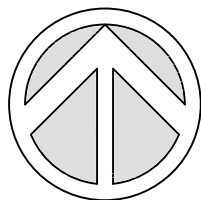
SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

SPECIAL PURPOSE SURVEY

ALLPRO
CONSULTING
GROUP, INC.9221 Lyndon B. Johnson Freeway
Suite 204
Dallas, TX 75243TI-OPP-29300
1320 Southwest Martha Street
City of Arcadia
County of DeSoto
State of Florida
Zip Code 34266

NORTH

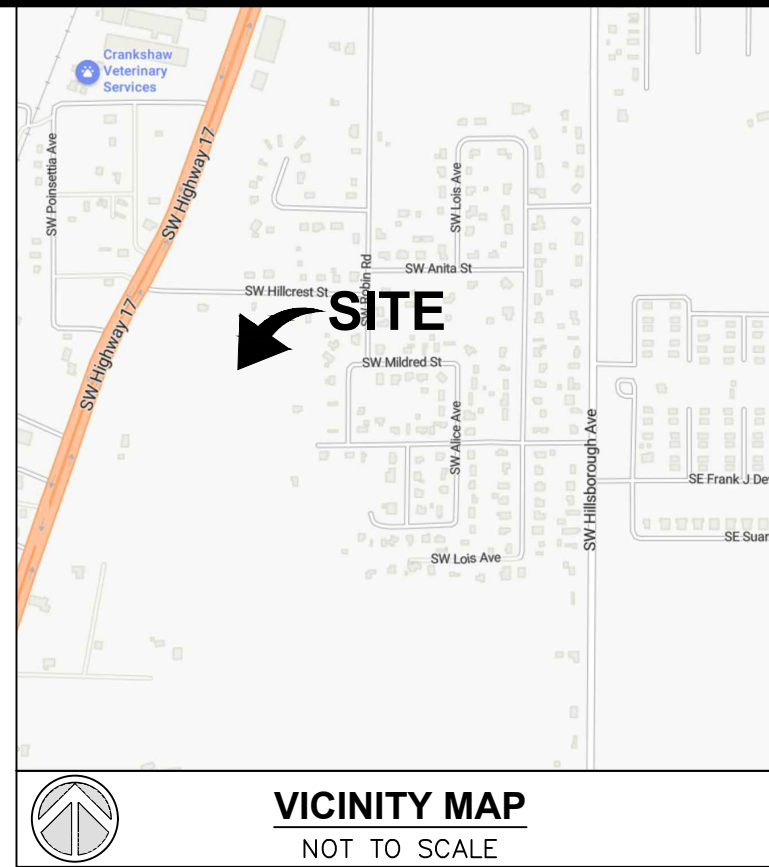
GRAPHIC SCALE

0 40' 80'

1 INCH = 40 FT.

Not valid without the signature and raised original
seal of a Florida Licensed Surveyor and Mapper,
unless transmitted electronically.Surveyor's Seal
Date Signed: 02-10-2025Sheet No. **1** of **1**

MSI Project No. 57298

PC: TRM
PM: CLA Drafter: CLAVICINITY MAP
NOT TO SCALE

SYMBOL LEGEND

R/W	- Right-of-Way
P/L	- Adjacent Property Line
P.O.B.	- Place/Point of Beginning
P.O.C.	- Place/Point of Commencement
●	- Monumentation Found as Noted
○	- 5/8" Iron Pin w/Cap Set Stamped "LB 7351"
+	- Section Corner Found as Noted
⊕	- Proposed Tower
⊗	- Tree
⊙	- Water Meter
⊖	- Electric Manhole
★	- Benchmark
⊕	- Utility Pole
×	- Fence (As Noted)
OU	- Overhead Utilities
▭	- Concrete Area

CERTIFICATION:

I, Timothy Leigh Fish, a Florida Professional Surveyor & Mapper, hereby
certify to Allpro Consulting Group, Inc. the following:Latitude and Longitude values for the center of the above referenced tower
are accurate to within +/- 20 feet horizontally:

Horizontal Datum: NAD83

Latitude: 27 degrees 11 minutes 23.3905 seconds North
Longitude: 81 degrees 51 minutes 57.2163 seconds West

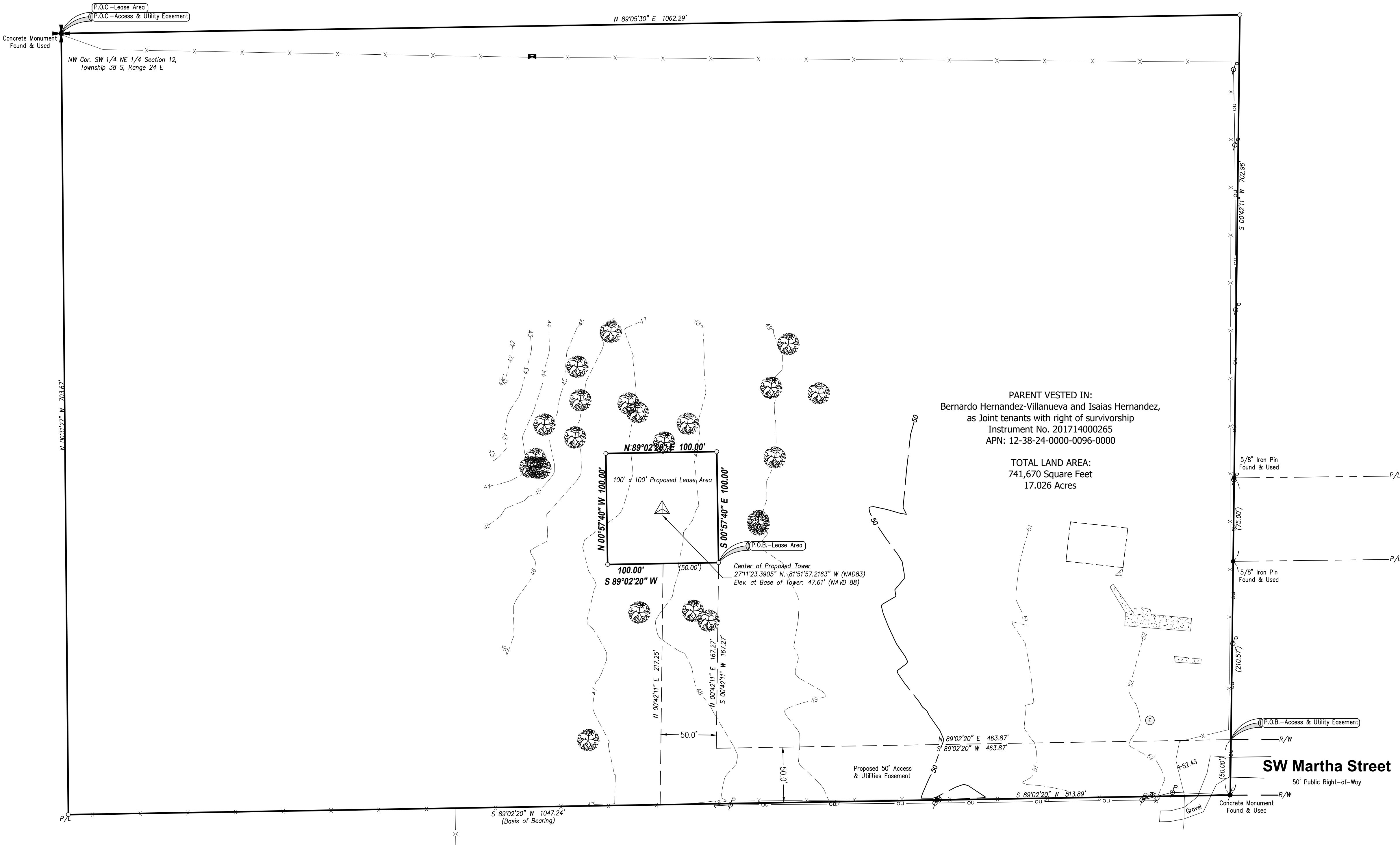
The field work was completed on September 13, 2023.

Date of Plot or Map: September 15, 2023.

I hereby certify that this drawing correctly depicts the description shown
hereon as prepared under my direction and this drawing was made in
accordance with minimum technical standards adopted by the Florida Division
of Consumer Services Agriculture Division of the Florida Administrative Code,
pursuant to Section 5J-17.050-052 F.A.C.Timothy L. Fish, PSM
Florida Professional Surveyor and Mapper No. LS 6819
Florida Certificate of Authorization No. LB 7351

REVISION HISTORY

BY:	DATE:	COMMENT:
CLA	10/18/2023	TITLE
CLA	06/06/2024	REVISED LEASE AREA
CLA	01/29/2025	COMMENTS
CLA	02/05/2025	SURVEYOR COMMENTS



PROPOSED LEASE AREA DESCRIPTION:

A tract of land located in the SW 1/4 of the NE 1/4 of Section 12, Township 38 South, Range 24 East, of DeSoto County, Florida, being more particularly described as follows;

COMMENCING at a concrete Monument, being the NW corner of the SW 1/4 of the NE 1/4 of Section 12, THENCE North 89 degrees 05 minutes 30 seconds East, along the South line of Hillcrest Subdivision as shown on Plat Book 6, Page 5, of the DeSoto County Records, for a distance of 1062.29 feet;
THENCE South 00 degrees 42 minutes 11 seconds West, for a distance of 652.96 feet to a point on the Northerly right of way of SW Martha Street, a 50' public right-of-way, THENCE South 89 degrees 02 minutes 20 seconds West, for a distance of 463.87 feet; THENCE North 00 degrees 42 minutes 11 seconds East, for a distance of 167.27 feet to the POINT OF BEGINNING;THENCE South 89 degrees 02 minutes 20 seconds West, for a distance of 100.00 feet; THENCE 00 degrees 57 minutes 40 seconds East, for a distance of 100.00 feet; THENCE North 89 degrees 02 minutes 20 seconds East, along the South line of Hillcrest Subdivision as shown on Plat Book 6, Page 5, of the DeSoto County Records, for a distance of 1062.29 feet;
THENCE South 00 degrees 42 minutes 11 seconds West, for a distance of 652.96 feet to the POINT OF BEGINNING;

Said tract of land containing 1,000 square feet (0.022 Acres) of land, more or less.

WESTCOR LAND TITLE INSURANCE COMPANY
COMMITMENT NO. TIL-158881-C - SCHEDULE A:

All that certain land situate in DeSoto County, Florida, to wit:

The North 16.9 acres of the West 1042.5 feet of the South 1/2 of the NE 1/4 of Section 12, Township 38 South Range 24 East, DeSoto County, Florida, excepting therefrom the East 1597.50 feet thereof.

Parcel ID: 12-38-24-0000-0096-0000

Being a portion of the same property conveyed to Bernardo Hernandez-Villanueva and Isaias Hernandez, as joint tenants with right of survivorship in Warranty Deed from Eugene P. Heitman, a single man dated January 5, 2017 and recorded January 17, 2017 in Instrument No. 201714000265.

LEGEND	
NEW	PROPOSED
(E)	EXISTING
—— — — — —	CENTER LINE
—— — — — —	PROPERTY LINE
- - - - -	EASEMENT LINE
—— — — — —	LEASE AREA
—— X ——	FENCE LINE
—— OHT ——	OVERHEAD TELCO
—— OHF ——	OVERHEAD FIBER
—— P ——	UNDERGROUND POWER CONDUIT
—— T ——	UNDERGROUND TELCO CONDUIT
—— F ——	UNDERGROUND FIBER CONDUIT
—— GAS ——	UNDERGROUND GAS
—— OHP ——	OVERHEAD POWER
—— SF ——	SILT FENCE
—— GUY ——	GUYED WIRE
—— WET ——	LIMITS OF WETLANDS

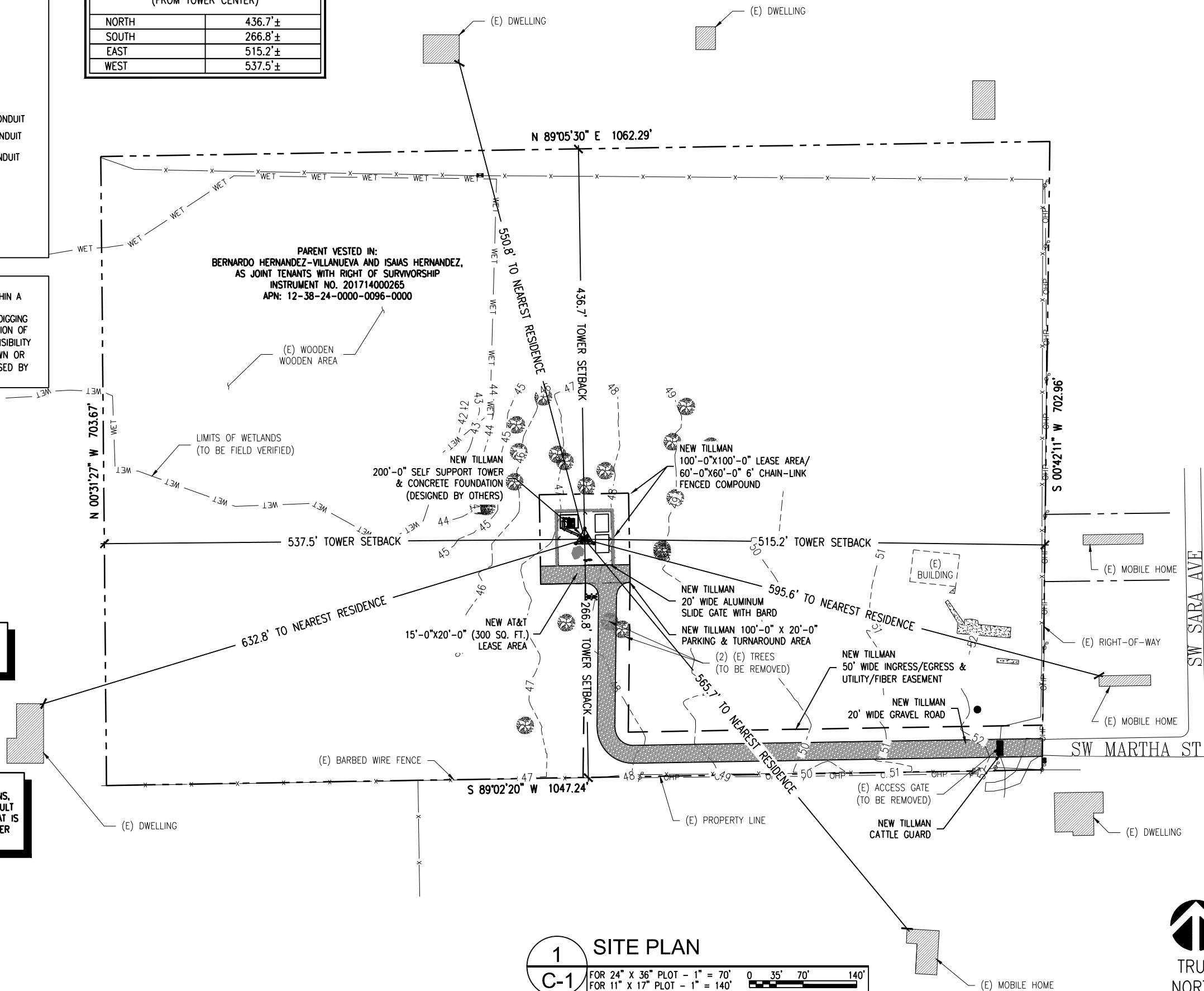
SITE REFERENCE NOTE:
SITE LAYOUT IS BASED ON SURVEY BY MILLMAN
LAND SERVICES, INC., MSI PROJECT NO. 57298,
DATED 9/15/2023. IF ANY DISCREPANCY IS
NOTED BETWEEN ACTUAL SITE LAYOUT AND THIS
DRAWINGS, PLEASE NOTIFY ALLPRO FOR REDESIGN.

NOTE:
ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH
ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

HIDDEN OR CHANGED CONDITIONS DISCLAIMERS:
ANY WORK NOT INDICATED IN THE PLANS OR SPECIFICATIONS,
THAT MUST BE ADDED, REPAIRED, OR REPLACED AS A RESULT
OF HIDDEN, CONCEALED, OR CHANGED CONDITIONS, OR THAT IS
REQUIRED FOR COMPLIANCE WITH BUILDING CODES OR OTHER
REGULATIONS, SHALL RESULT IN ADDITIONAL FEES.

TOWER DISCLAIMER:
TOWER AND FOUNDATION GEOMETRY PENDING
FINAL STRUCTURAL DESIGN BY OTHERS.
TOWER/COMPOUND LAYOUT MAY SUBJECT TO
CHANGE BASED ON FINAL DESIGN.

TOWER SETBACKS TO PROPERTY LINES (FROM TOWER CENTER)	
NORTH	436.7'±
SOUTH	266.8'±
EAST	515.2'±
WEST	537.5'±



1 SITE PLAN
C-1 FOR 24" X 36" PLOT - 1"
FOR 11" X 17" PLOT - 1"



TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019



CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 2749

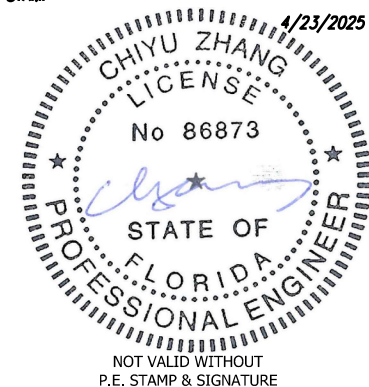
ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

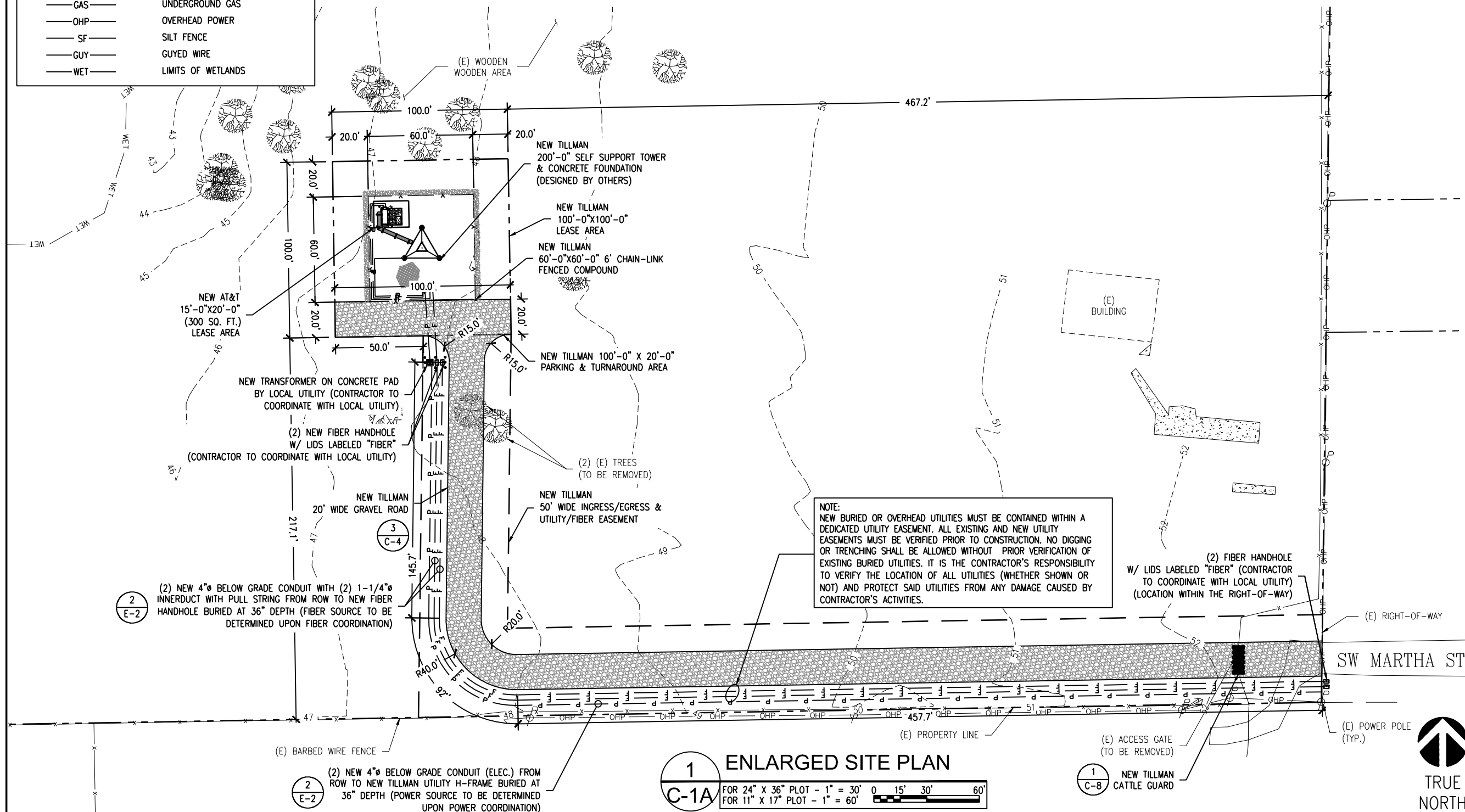
C-1

LEGEND	
NEW	PROPOSED
(E)	EXISTING
_____ - _____	CENTER LINE
_____ - - - _____	PROPERTY LINE
- - - - -	EASEMENT LINE
_____ - - - _____	LEASE AREA
_____ X _____	FENCE LINE
_____ OHT _____	OVERHEAD TELCO
_____ OHF _____	OVERHEAD FIBER
_____ P _____	UNDERGROUND POWER CONDUIT
_____ T _____	UNDERGROUND TELCO CONDUIT
_____ F _____	UNDERGROUND FIBER CONDUIT
_____ GAS _____	UNDERGROUND GAS
_____ OHP _____	OVERHEAD POWER
_____ SF _____	SILT FENCE
_____ GUY _____	GUYED WIRE
_____ WET _____	LIMITS OF WETLANDS

HIDDEN OR CHANGED CONDITIONS DISCLAIMERS:
ANY WORK NOT INDICATED IN THE PLANS OR SPECIFICATIONS,
THAT MUST BE ADDED, REPAIRED, OR REPLACED AS A RESULT
OF HIDDEN, CONCEALED, OR CHANGED CONDITIONS, OR THAT IS
REQUIRED FOR COMPLIANCE WITH BUILDING CODES OR OTHER
REGULATIONS, SHALL RESULT IN ADDITIONAL FEES.

NOTE:
ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH
ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

TOWER DISCLAIMER:
TOWER AND FOUNDATION GEOMETRY PENDING
FINAL STRUCTURAL DESIGN BY OTHERS,
TOWER/COMPOUND LAYOUT MAY SUBJECT TO
CHANGE BASED ON FINAL DESIGN.



TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019



CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEW.

SUITE 204, DALLAS, TX 75243
PHONE 214-371-2227

PHONE: 972-231-8893
FAX: 866-364-8375

www.allprocgi.com

FLORIDA FIRM REGISTRATION # 274

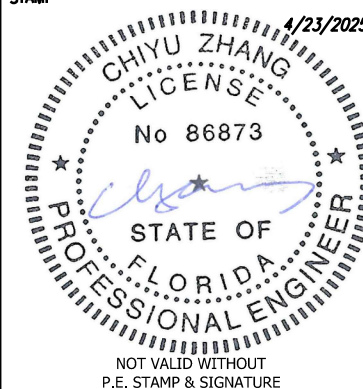
ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	B
4	04/23/25	DRC COMMENTS & REDLINES	RI
3	03/05/25	DRC COMMENTS & REDLINES	RI
2	10/15/24	CITY COMMENTS	RI
1	07/25/24	REV. PER CM REDLINES	RI
0	05/30/24	FINAL CD	RI

STAMP



SITE INFORMATION

AT&T NUMBER

15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70

TILMAN SITE NUMBER

TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS

1320 SW MARTHA ST

ARCADIA, FL 34266

SHEET TITLE:

ENLARGED SITE PLAN

SHEET NUMBER:

C-1A

LEGEND	
NEW	PROPOSED
(E)	EXISTING
---	CENTER LINE
---	PROPERTY LINE
---	EASEMENT LINE
---	LEASE AREA
-X-	FENCE LINE
-OHT-	OVERHEAD TELCO
-OHF-	OVERHEAD FIBER
-P-	UNDERGROUND POWER CONDUIT
-T-	UNDERGROUND TELCO CONDUIT
-F-	UNDERGROUND FIBER CONDUIT
-GAS-	UNDERGROUND GAS
-OHP-	OVERHEAD POWER
-SF-	SILT FENCE
-GUY-	GUYED WIRE
-WET-	LIMITS OF WETLANDS

NOTE:
NEW BURIED OR OVERHEAD UTILITIES MUST BE CONTAINED WITHIN A DEDICATED UTILITY EASEMENT. ALL EXISTING AND NEW UTILITY EASEMENTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. NO DIGGING OR TRENCHING SHALL BE ALLOWED WITHOUT PRIOR VERIFICATION OF EXISTING BURIED UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

SITE REFERENCE NOTE:
SITE LAYOUT IS BASED ON SURVEY BY MILLMAN LAND SERVICES, INC., MSI PROJECT NO. 57298, DATED 9/15/2023. IF ANY DISCREPANCY IS NOTED BETWEEN ACTUAL SITE LAYOUT AND THIS DRAWINGS, PLEASE NOTIFY ALLPRO FOR REDESIGN.

FLOOD NOTE:
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 12027C0178C, DATED 11/6/2013. IF A PROFESSIONAL CONSULTANT HAS FINDINGS OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC. FOR A RE-DESIGN.

NOTE:
ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

HIDDEN OR CHANGED CONDITIONS DISCLAIMERS:
ANY WORK NOT INDICATED IN THE PLANS OR SPECIFICATIONS, THAT MUST BE ADDED, REPAIRED, OR REPLACED AS A RESULT OF HIDDEN, CONCEALED, OR CHANGED CONDITIONS, OR THAT IS REQUIRED FOR COMPLIANCE WITH BUILDING CODES OR OTHER REGULATIONS, SHALL RESULT IN ADDITIONAL FEES.

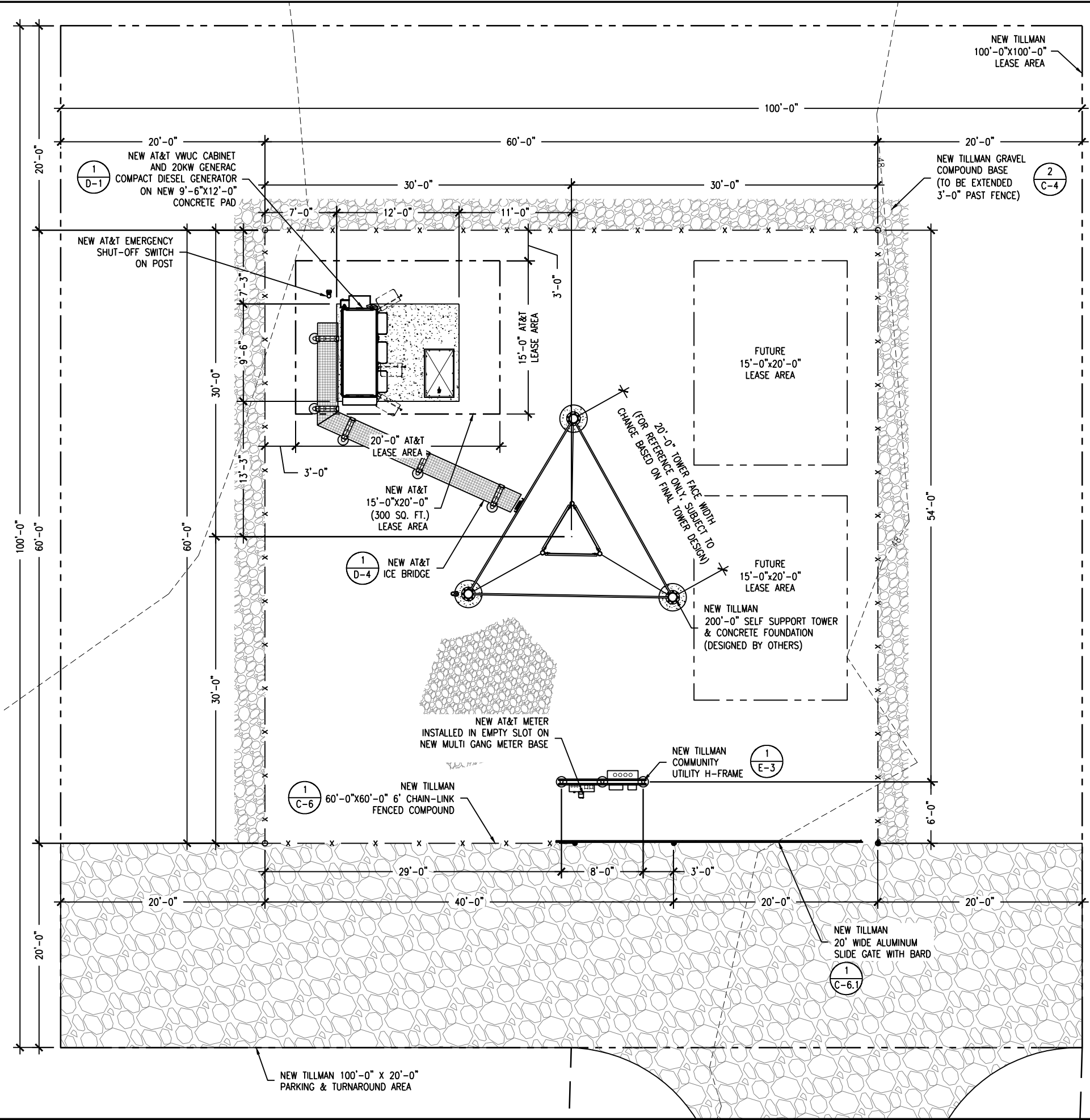
TOWER DISCLAIMER:
TOWER AND FOUNDATION GEOMETRY PENDING FINAL STRUCTURAL DESIGN BY OTHERS, TOWER/COMPOUND LAYOUT MAY SUBJECT TO CHANGE BASED ON FINAL DESIGN.

1

COMPOUND PLAN

FOR 24" X 36" PLOT - 3/16" = 1' 0" 2' 4' 8"

FOR 11" X 17" PLOT - 3/32" = 1' 0" 2' 4' 8"



TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allproci.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337
DRAWN BY: RM
CHECKED BY: CZ

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION

AT&T NUMBER
15828317

AT&T SITE NAME
HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER
TI-OPP-29300

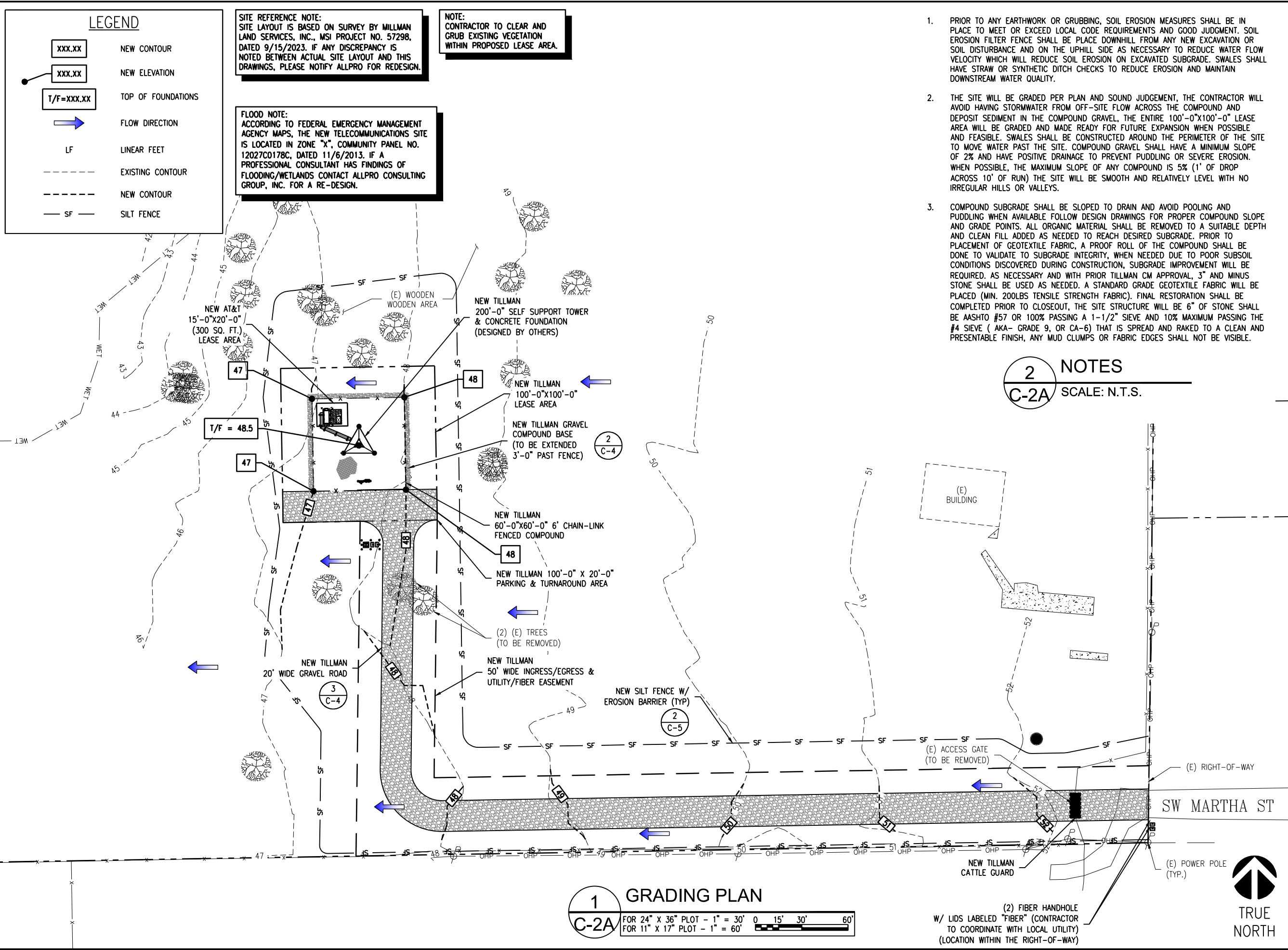
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
COMPOUND
PLAN

SHEET NUMBER:
C-2



- PRIOR TO ANY EARTHWORK OR GRUBBING, SOIL EROSION MEASURES SHALL BE IN PLACE TO MEET OR EXCEED LOCAL CODE REQUIREMENTS AND GOOD JUDGMENT. SOIL EROSION FILTER FENCE SHALL BE PLACE DOWNHILL FROM ANY NEW EXCAVATION OR SOIL DISTURBANCE AND ON THE UPHILL SIDE AS NECESSARY TO REDUCE WATER FLOW VELOCITY WHICH WILL REDUCE SOIL EROSION ON EXCAVATED SUBGRADE. SWALES SHALL HAVE STRAW OR SYNTHETIC DITCH CHECKS TO REDUCE EROSION AND MAINTAIN DOWNSTREAM WATER QUALITY.
- THE SITE WILL BE GRADED PER PLAN AND SOUND JUDGEMENT, THE CONTRACTOR WILL AVOID HAVING STORMWATER FROM OFF-SITE FLOW ACROSS THE COMPOUND AND DEPOSIT SEDIMENT IN THE COMPOUND GRAVEL, THE ENTIRE 100'-0"x100'-0" LEASE AREA WILL BE GRADED AND MADE READY FOR FUTURE EXPANSION WHEN POSSIBLE AND FEASIBLE. SWALES SHALL BE CONSTRUCTED AROUND THE PERIMETER OF THE SITE TO MOVE WATER PAST THE SITE. COMPOUND GRAVEL SHALL HAVE A MINIMUM SLOPE OF 2% AND HAVE POSITIVE DRAINAGE TO PREVENT PUDDLING OR SEVERE EROSION. WHEN POSSIBLE, THE MAXIMUM SLOPE OF ANY COMPOUND IS 5% (1' OF DROP ACROSS 10' OF RUN) THE SITE WILL BE SMOOTH AND RELATIVELY LEVEL WITH NO IRREGULAR HILLS OR VALLEYS.
- COMPOUND SUBGRADE SHALL BE SLOPED TO DRAIN AND AVOID POOLING AND PUDDLING WHEN AVAILABLE FOLLOW DESIGN DRAWINGS FOR PROPER COMPOUND SLOPE AND GRADE POINTS. ALL ORGANIC MATERIAL SHALL BE REMOVED TO A SUITABLE DEPTH AND CLEAN FILL ADDED AS NEEDED TO REACH DESIRED SUBGRADE. PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC, A PROOF ROLL OF THE COMPOUND SHALL BE DONE TO VALIDATE TO SUBGRADE INTEGRITY, WHEN NEEDED DUE TO POOR SUBSOIL CONDITIONS DISCOVERED DURING CONSTRUCTION, SUBGRADE IMPROVEMENT WILL BE REQUIRED. AS NECESSARY AND WITH PRIOR TILLMAN CM APPROVAL, 3" AND MINUS STONE SHALL BE USED AS NEEDED. A STANDARD GRADE GEOTEXTILE FABRIC WILL BE PLACED (MIN. 200LBS TENSILE STRENGTH FABRIC). FINAL RESTORATION SHALL BE COMPLETED PRIOR TO CLOSEOUT, THE SITE STRUCTURE WILL BE 6" OF STONE SHALL BE AASHTO #57 OR 100% PASSING A 1-1/2" SIEVE AND 10% MAXIMUM PASSING THE #4 SIEVE (AKA- GRADE 9, OR CA-6) THAT IS SPREAD AND RAKED TO A CLEAN AND PRESENTABLE FINISH, ANY MUD CLUMPS OR FABRIC EDGES SHALL NOT BE VISIBLE.

TILLMAN INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

AT&T

ALLPRO CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocg.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337
DRAWN BY: RM
CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

CHIU ZHANG
LICENSE
No 86873
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NOT VALID WITHOUT
P.E. STAMP & SIGNATURE
4/23/2025

SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
GRADING PLAN

SHEET NUMBER:
C-2A

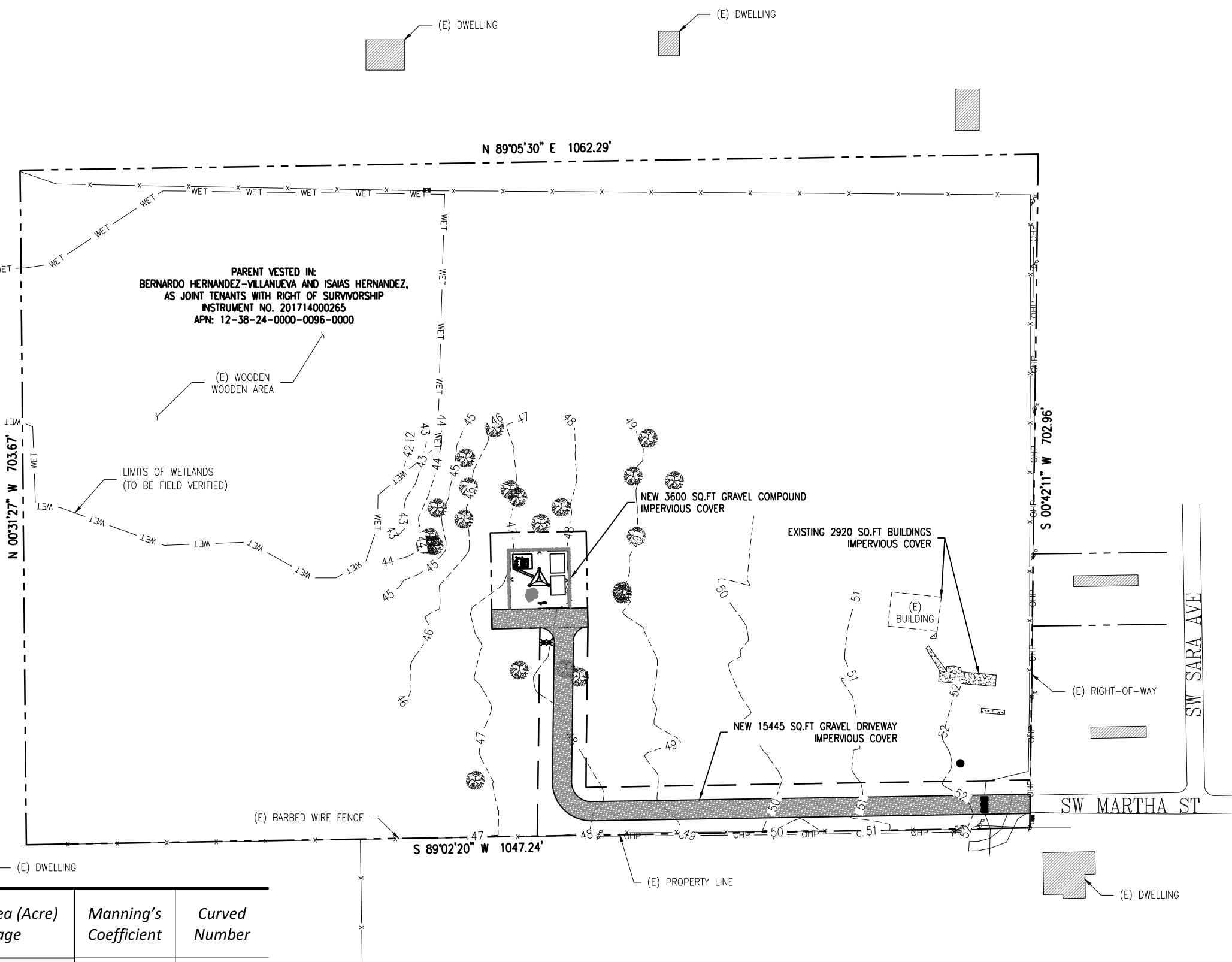
LEGEND	
NEW	PROPOSED
(E)	EXISTING
---	CENTER LINE
---	PROPERTY LINE
---	EASEMENT LINE
---	LEASE AREA
-X-	FENCE LINE
-OHT-	OVERHEAD TELCO
-OHF-	OVERHEAD FIBER
-P-	UNDERGROUND POWER CONDUIT
-T-	UNDERGROUND TELCO CONDUIT
-F-	UNDERGROUND FIBER CONDUIT
-GAS-	UNDERGROUND GAS
-OHP-	OVERHEAD POWER
-SF-	SILT FENCE
-GUY-	GUYED WIRE
-WET-	LIMITS OF WETLANDS

NOTE:
NEW BURIED OR OVERHEAD UTILITIES MUST BE CONTAINED WITHIN A DEDICATED UTILITY EASEMENT. ALL EXISTING AND NEW UTILITY EASEMENTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. NO DIGGING OR TRENCHING SHALL BE ALLOWED WITHOUT PRIOR VERIFICATION OF EXISTING BURIED UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

SITE REFERENCE NOTE:
SITE LAYOUT IS BASED ON SURVEY BY MILLMAN LAND SERVICES, INC., MSI PROJECT NO. 57298, DATED 9/15/2023. IF ANY DISCREPANCY IS NOTED BETWEEN ACTUAL SITE LAYOUT AND THIS DRAWINGS, PLEASE NOTIFY ALLPRO FOR REDESIGN.

FLOOD NOTE:
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 12027C0178C, DATED 11/6/2013. IF A PROFESSIONAL CONSULTANT HAS FINDINGS OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC. FOR A RE-DESIGN.

PRE-CONSTRUCTION ONLY:
THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED AS A CONSTRUCTION DRAWINGS.



	Impervious Area (Acre) /Percentage	Manning's Coefficient	Curved Number
Pre-development	0.07 / 0.39%	0.36	66.36
Post-development	0.5 / 2.96%	0.36	66.96

1 IMPERVIOUS COVER EXHIBIT

C2-B

SCALE: 1" = 70'
FOR 11" X 17" PLOT - 1" = 140'

0 35' 70' 140'



TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337
DRAWN BY: RM
CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
IMPERVIOUS COVER
EXHIBIT

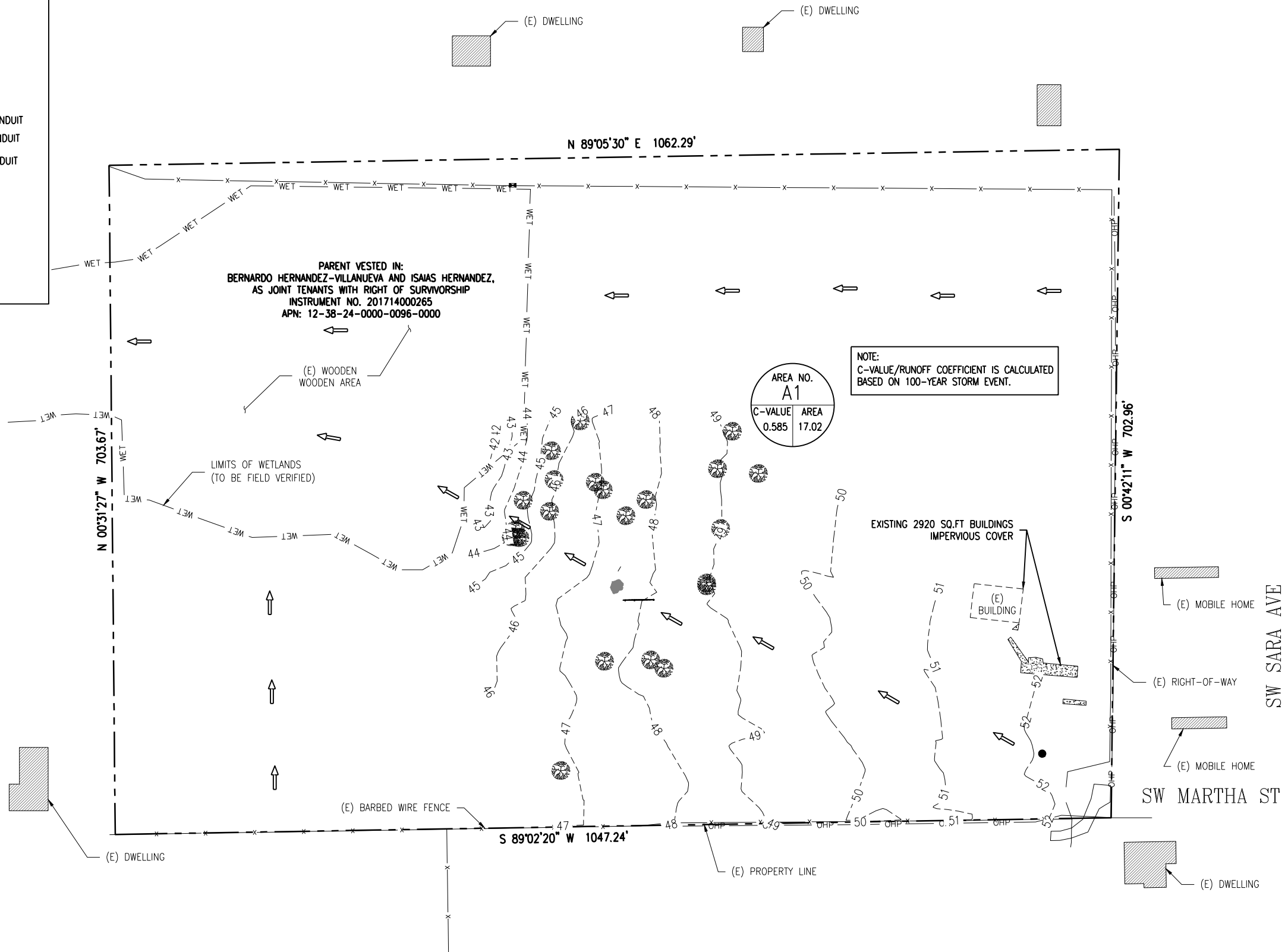
SHEET NUMBER:
C2-B

LEGEND	
NEW	PROPOSED
(E)	EXISTING
---	CENTER LINE
---	PROPERTY LINE
---	EASEMENT LINE
---	LEASE AREA
-X-	FENCE LINE
-OHT-	OVERHEAD TELCO
-OHF-	OVERHEAD FIBER
-P-	UNDERGROUND POWER CONDUIT
-T-	UNDERGROUND TELCO CONDUIT
-F-	UNDERGROUND FIBER CONDUIT
-GAS-	UNDERGROUND GAS
-OHP-	OVERHEAD POWER
-SF-	SILT FENCE
-GUY-	GUYED WIRE
-WET-	LIMITS OF WETLANDS
⇐	EXISTING FLOW
⇐	PROPOSED FLOW

SITE REFERENCE NOTE:
SITE LAYOUT IS BASED ON SURVEY BY MILLMAN LAND SERVICES, INC., MSI PROJECT NO. 57298, DATED 9/15/2023. IF ANY DISCREPANCY IS NOTED BETWEEN ACTUAL SITE LAYOUT AND THIS DRAWINGS, PLEASE NOTIFY ALLPRO FOR REDESIGN.

FLOOD NOTE:
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 12027C0178C, DATED 11/6/2013. IF A PROFESSIONAL CONSULTANT HAS FINDINGS OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC. FOR A RE-DESIGN.

PRE-CONSTRUCTION ONLY:
THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED AS A CONSTRUCTION DRAWINGS.



1
C2-C

EXISTING DRAINAGE PLAN

FOR 24" X 36" PLOT - 1" = 70'
FOR 11" X 17" PLOT - 1" = 140'

0 35' 70' 140'



TILLMAN

INFRASTRUCTURE

152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION

AT&T NUMBER
15828317

AT&T SITE NAME
HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER
TI-OPP-29300

TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

EXISTING DRAINAGE
AREA MAP

SHEET NUMBER:

C2-C

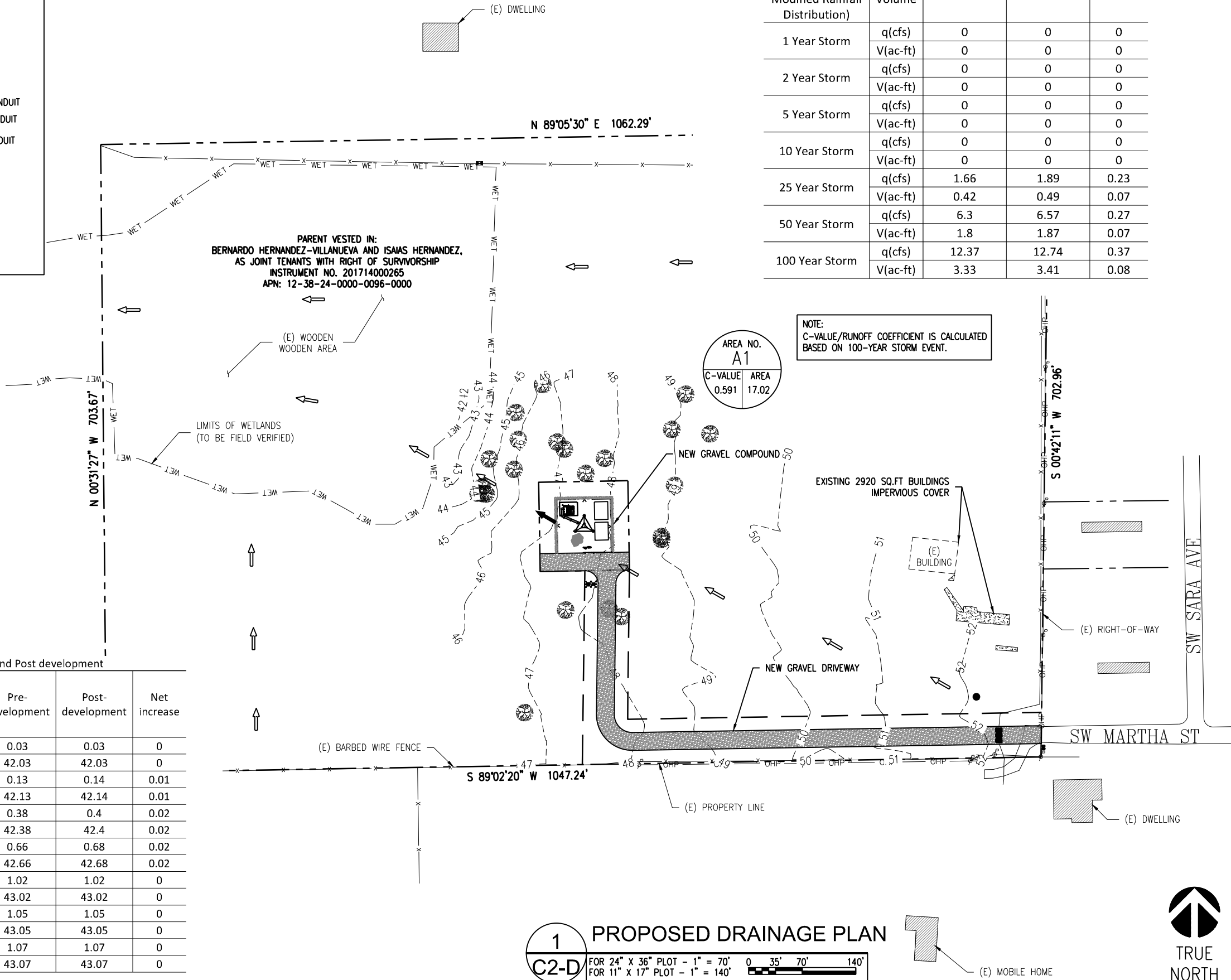
LEGEND	
NEW	PROPOSED
(E)	EXISTING
---	CENTER LINE
---	PROPERTY LINE
---	EASEMENT LINE
---	LEASE AREA
-X-	FENCE LINE
OHT	OVERHEAD TELCO
OHF	OVERHEAD FIBER
P	UNDERGROUND POWER CONDUIT
T	UNDERGROUND TELCO CONDUIT
F	UNDERGROUND FIBER CONDUIT
GAS	UNDERGROUND GAS
OHP	OVERHEAD POWER
SF	SILT FENCE
GUY	GUYED WIRE
WET	LIMITS OF WETLANDS
→	EXISTING FLOW
→	PROPOSED FLOW

SITE REFERENCE NOTE:
SITE LAYOUT IS BASED ON SURVEY BY MILLMAN
LAND SERVICES, INC., MSI PROJECT NO. 57298,
DATED 9/15/2023. IF ANY DISCREPANCY IS
NOTED BETWEEN ACTUAL SITE LAYOUT AND THIS
DRAWINGS, PLEASE NOTIFY ALLPRO FOR REDESIGN.

FLOOD NOTE:
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT
AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE
IS LOCATED IN ZONE "X", COMMUNITY PANEL NO.
12027C0178C, DATED 11/6/2013. IF A
PROFESSIONAL CONSULTANT HAS FINDINGS OF
FLOODING/WETLANDS CONTACT ALLPRO CONSULTING
GROUP, INC. FOR A RE-DESIGN.

PRE-CONSTRUCTION ONLY:
THIS DRAWING IS FOR INFORMATIONAL
PURPOSES ONLY AND IS NOT INTENDED
AS A CONSTRUCTION DRAWINGS.

Retention HGL Results - Pre and Post development				
Storm Event (24-hour duration/SCS Type II Florida Modified Rainfall Distribution)	Maximum Depth / HGL (ft)	Pre- development	Post- development	Net increase
1 Year Storm	Depth	0.03	0.03	0
	HGL	42.03	42.03	0
2 Year Storm	Depth	0.13	0.14	0.01
	HGL	42.13	42.14	0.01
5 Year Storm	Depth	0.38	0.4	0.02
	HGL	42.38	42.4	0.02
10 Year Storm	Depth	0.66	0.68	0.02
	HGL	42.66	42.68	0.02
25 Year Storm	Depth	1.02	1.02	0
	HGL	43.02	43.02	0
50 Year Storm	Depth	1.05	1.05	0
	HGL	43.05	43.05	0
100 Year Storm	Depth	1.07	1.07	0
	HGL	43.07	43.07	0



Runoff Results - Pre and Post development				
Storm Event (24-hour duration/SCS Type II Florida Modified Rainfall Distribution)	Peak Flow/ Runoff Volume	Pre- development	Post- development	Net increase
1 Year Storm	q(cfs)	0	0	0
	V(ac-ft)	0	0	0
2 Year Storm	q(cfs)	0	0	0
	V(ac-ft)	0	0	0
5 Year Storm	q(cfs)	0	0	0
	V(ac-ft)	0	0	0
10 Year Storm	q(cfs)	0	0	0
	V(ac-ft)	0	0	0
25 Year Storm	q(cfs)	1.66	1.89	0.23
	V(ac-ft)	0.42	0.49	0.07
50 Year Storm	q(cfs)	6.3	6.57	0.27
	V(ac-ft)	1.8	1.87	0.07
100 Year Storm	q(cfs)	12.37	12.74	0.37
	V(ac-ft)	3.33	3.41	0.08

NOTE:
C-VALUE/RUNOFF COEFFICIENT IS CALCULATED
BASED ON 100-YEAR STORM EVENT.

1 PROPOSED DRAINAGE PLAN
C2-D FOR 24" X 36" PLOT - 1" = 70' 0 35' 70' 140'
FOR 11" X 17" PLOT - 1" = 140'



TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337
DRAWN BY: RM
CHECKED BY: CZ

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
**PROPOSED DRAINAGE
AREA MAP**

SHEET NUMBER:
C2-D

NOTE:
PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE NEW LOADS. STRUCTURAL ANALYSIS BY OTHERS.

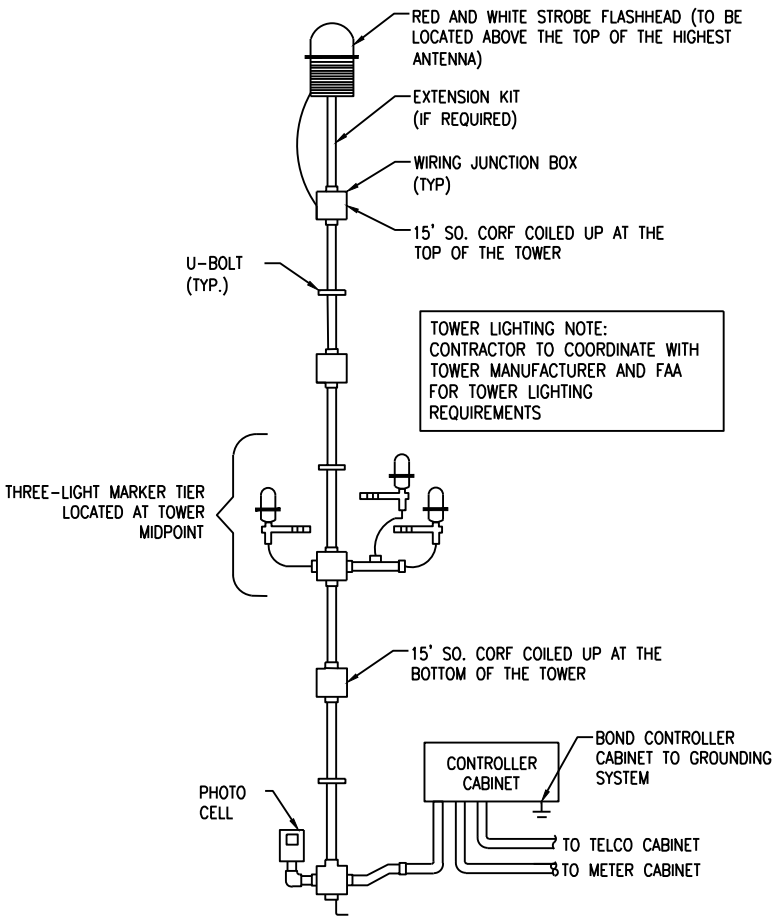
NOTE:
MOUNT ANALYSIS BY OTHERS. NO ANTENNAS OR EQUIPMENT SHALL BE INSTALLED WITHOUT THE APPROVAL OF A STRUCTURAL ENGINEER.

NOTE:
ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

NOTE:
NEW ANTENNA PLACEMENT LOCATION TO BE FIELD VERIFIED BY GENERAL CONTRACTOR PRIOR TO CONSTRUCTION TO AVOID ANY INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS. IF INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS IS DISCOVERED DURING FIELD VERIFICATION, PLEASE CONTACT ALLPRO CONSULTING GROUP INC. FOR DESIGN REVISION PRIOR TO ANY NEW ANTENNA INSTALLATION.

FLOOD NOTE:
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 12027C0178C, DATED 11/6/2013. IF A PROFESSIONAL CONSULTANT HAS FINDINGS OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC. FOR A RE-DESIGN.

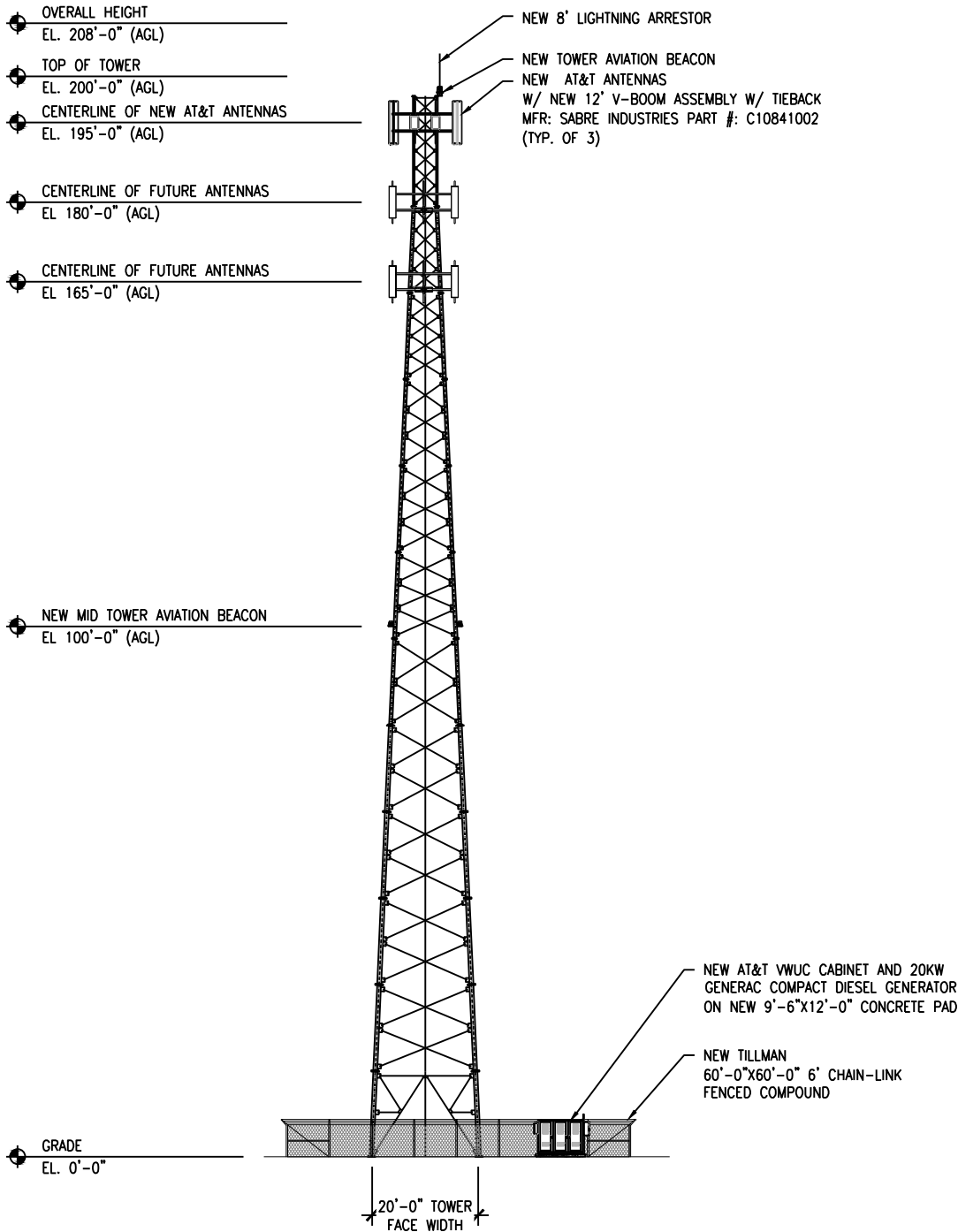
CLIMBERS NOTE:
CLIMBERS SHOULD NOT LATCH OR TIE THEIR SUPPORT LANYARD OR GEAR ON TO ANTENNAS, RADIOS, ANTENNA MOUNTS ETC WITHOUT PROPER EVALUATION. THEY SHOULD ONLY TIE TO THEIR SUPPORT LANYARDS OR GEAR TO OR ATTACH TO TOWER STRUCTURAL MEMBERS THAT HAVE VISIBLE BOLTING AND CONNECTION TO THE LARGER STRUCTURE.



TOWER LIGHTING NOTE:
CONTRACTOR TO COORDINATE WITH TOWER MANUFACTURER AND FAA FOR TOWER LIGHTING REQUIREMENTS

- OVERALL HEIGHT
EL. 208'-0" (AGL)
- TOP OF TOWER
EL. 200'-0" (AGL)
- CENTERLINE OF NEW AT&T ANTENNAS
EL. 195'-0" (AGL)
- CENTERLINE OF FUTURE ANTENNAS
EL. 180'-0" (AGL)
- CENTERLINE OF FUTURE ANTENNAS
EL. 165'-0" (AGL)

- NEW MID TOWER AVIATION BEACON
EL. 100'-0" (AGL)



2 TOWER LIGHTING DETAIL
C-3 SCALE: N.T.S.

1 ELEVATION
C-3 FOR 24" X 36" PLOT - 1/16" = 1' 0 4' 8' 16' 32'
FOR 11" X 17" PLOT - 3/64" = 1'

TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019



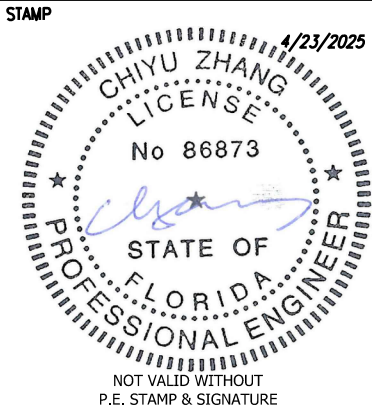
CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

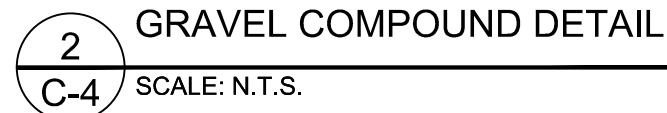
ELEVATION

SHEET NUMBER:

C-3

1. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE WELL DRAINED AT ALL TIMES.
2. PERFORM ALL SURVEY, LAYOUT, STAKING AND MARKING TO ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
3. LOCATE AND CLEARLY FLAG TREES, VEGETATION AND EXISTING SITE CONDITIONS TO REMAIN UNDISTURBED DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGER TO ESTABLISH INSPECTIONS AND APPROVAL PROCESS FOR ALL SITE WORK.
5. EXCAVATION AND STRUCTURAL BACKFILL FOR TOWER FOUNDATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. CONTRACTOR IS REQUIRED TO OBTAIN A COPY OF THE REPORT PRIOR TO CONSTRUCTION.
6. SUITABLE NON-STRUCTURAL BACKFILL: EXCAVATED INORGANIC MATERIAL, COHESIVE AND NON-COHESIVE MATERIALS, INCLUDING GRAVEL, SAND, SILT, CLAY, AND COMBINATIONS THEREOF FREE FROM REFUSE, FROZEN LUMPS, STONES OR ROCKS LARGER THAN 3 INCHES.
7. UNSUITABLE BACKFILL: TOP SOIL, HIGH AND MODERATELY PLASTIC SILTS AND CLAY, MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES.
8. GEOTEXTILE FABRIC (AND GEOGRID, WHEN REQUIRED) SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
9. REMOVE ALL FORMWORK RESULTING FROM CONCRETE CONSTRUCTION PRIOR TO BACKFILL.
10. ALL SUITABLE FILL MATERIAL SHALL BE INSTALLED IN HORIZONTAL LAYERS NOT EXCEEDING A LOOSE DEPTH OF 9 INCHES AND SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY PER THE MODIFIED PROCTOR TEST, ASTM D1557.
11. WHEN SOFT, YIELDING OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED AT THE REQUIRED TRENCH BOTTOM ELEVATION, OVER-EXCAVATE THE TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.
12. UTILIZE SUITABLE FILL MATERIALS RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILL, ACCESS ROAD, SITE GRADING AND FOR THE REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
13. PERFORM ALL FINISHED GRADING TO PROVIDE SMOOTH, EVEN SURFACE AND SUBSURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING PRIVATE UTILITIES.
15. WHEN EXCAVATING IN THE AREA OF EXISTING UTILITIES, THE CONTRACTOR SHALL USE REASONABLE CARE IN PROTECTING SUCH UTILITIES. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY OF ANY CONFLICTS BETWEEN EXISTING UTILITIES AND NEW CONSTRUCTION.
16. DAMAGE TO PUBLIC OR PRIVATE UTILITIES SHALL BE REPORTED TO THE PROJECT MANAGER AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S NEGLIGENCE OR FAILURE TO ACT WITH DUE REGARD SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

12" STABILIZED SUBGRADE - LBR 40 MIN.
COMPACTED TO 98% DENSITY, MODIFIED
PROCTOR (AASHTO T-180)
(SN = 0.96)



C-4

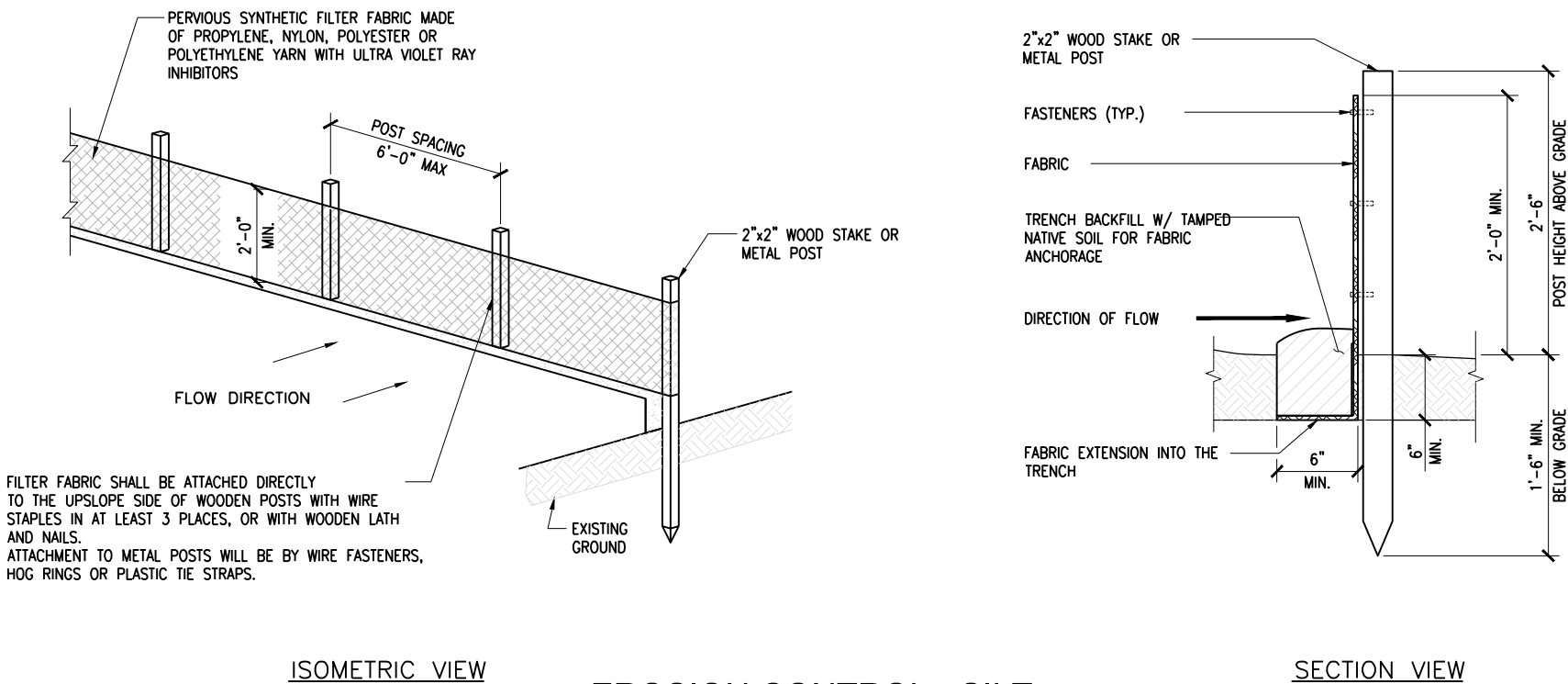
1. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE APPLICABLE STATE ADOPTED "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" OF THE STATE ENVIRONMENTAL PROTECTION AGENCY.
2. A SOIL EROSION CONTROL FENCE SHALL BE INSTALLED BEFORE DISTURBING THE GROUND AND SHALL BE PROVIDED AS SHOWN ON THE PLAN. THE CONDITION OF THE FENCE SHALL BE INSPECTED REGULARLY AND AFTER EVERY RAINSTORM THAT MIGHT PRODUCE RUNOFF. DAMAGED OR DETERIORATED ITEMS SHALL BE REPLACED AND MAINTAINED IN AN EFFECTIVE CONDITION
3. SOIL EROSION CONTROL MEASURES SHALL BE INCLUDED IN CONTRACTOR BID AND PRICING
4. THE ENTIRE SITE SHALL BE GRADED SO THAT NO STORM WATER RUNOFF AND LIKEWISE SOIL SEDIMENT CAN FLOW UNRESTRICTED FROM THE SITE
5. ALL INLETS, STRUCTURES, PIPES, SWALES, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT
6. MAINTAIN SOIL EROSION CONTROL MEASURES THROUGH THE DURATION OF THIS PROJECT
7. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN REACHING ONE HALF THE HEIGHT OF THE BARRIER
8. ALL SOIL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED
9. ANY EXCESS TOPSOIL THAT IS TO BE STOCKPILED FOR A PERIOD LONGER THAN 2 WEEKS SHALL BE PROTECTED BY EXCAVATING A TRENCH COMPLETELY AROUND THE STOCKPILE TO PREVENT THE ESCAPE OF SOIL MATERIAL THROUGH STORM WATER RUNOFF. STOCKPILES THAT ARE TO REMAIN LONGER THAN 14 DAYS SHALL BE SEEDED WITH AN APPROPRIATE GROUND COVER
10. TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, TEMPORARY GRAVEL ROADS AT WORK ENTRANCES SHALL BE CONSTRUCTED AND SHALL EXTEND INTO JOB SITE. THE EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY
11. REPLACE SOIL EROSION CONTROL MEASURES WITH SEED, SOD AND TOPSOIL AT THE COMPLETION OF THE PROJECT
12. SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN PROJECT IS COMPLETED

1

C-5

SOIL EROSION AND SEDIMENT CONTROL NOTES

SCALE: N.T.S.

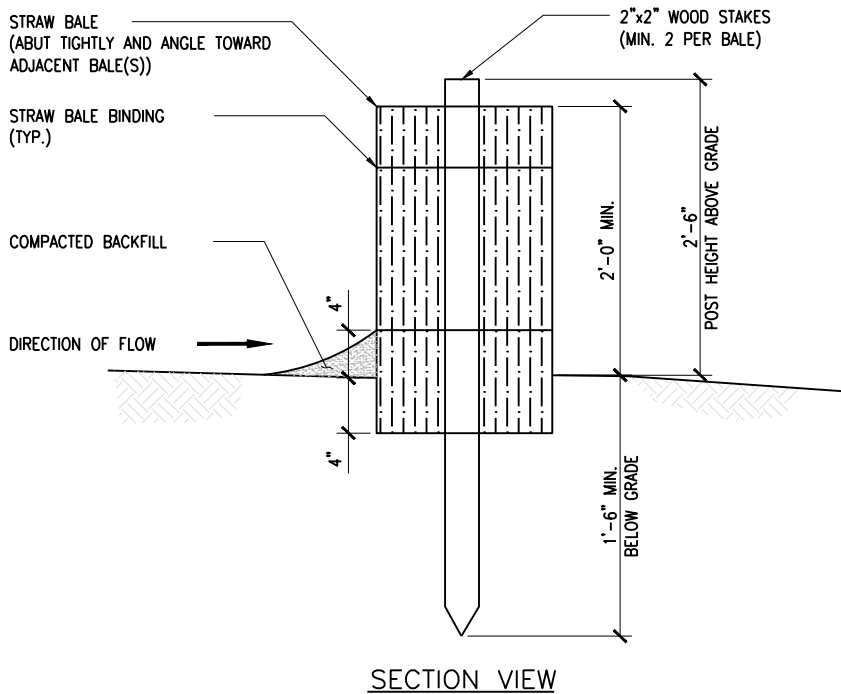


2

C-5

EROSION CONTROL - SILT FENCE

SCALE: N.T.S.



3

C-5

EROSION CONTROL - STRAW BALE (OPTIONAL)

SCALE: N.T.S.

TILLMAN

INFRASTRUCTURE

152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

AT&T

ALLPRO

CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

CHIU ZHANG

LICENSE

No 86873

STATE OF FLORIDA

PROFESSIONAL ENGINEER

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

4/23/2025

SITE INFORMATION

AT&T NUMBER

15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER

TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS

1320 SW MARTHA ST

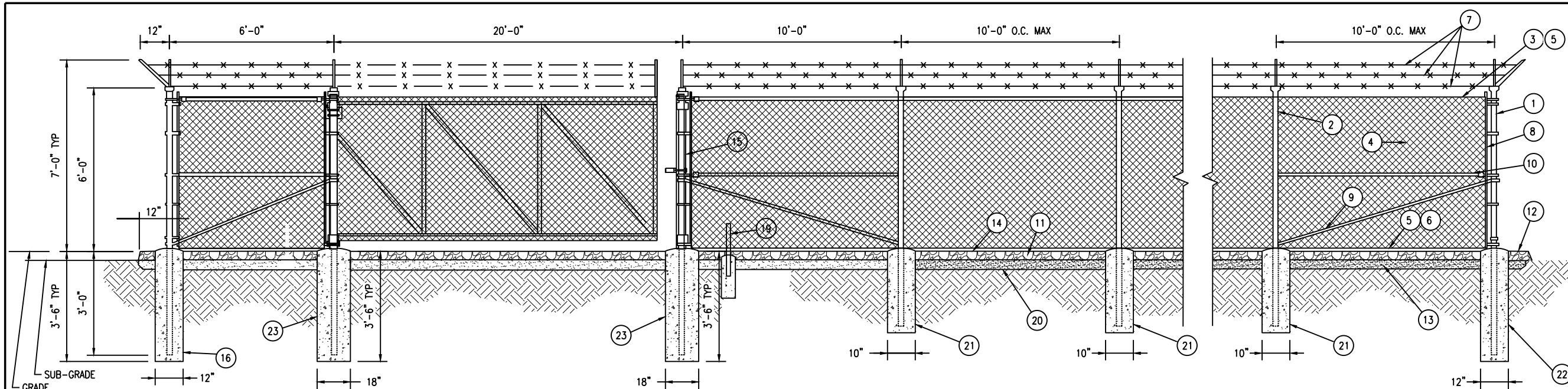
ARCADIA, FL 34266

SHEET TITLE:

EROSION CONTROL DETAILS

SHEET NUMBER:

C-5



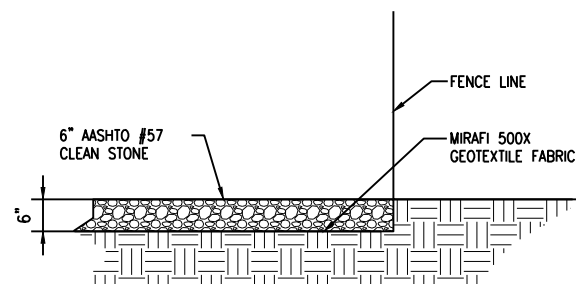
GENERAL NOTES:

1. INSTALL FENCING PER ASTM F-567
2. INSTALL SWING GATES PER ASTM-900
3. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED
4. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE 2" STD. GAUGE (HOT DIP, ASTM A120 GRADE "A" STEEL) ALL GATE FRAMES SHALL BE WELDED, ALL WELDING SHALL BE COATED WITH (3) COATS OF COLD GALV, (OR EQUAL)
5. ALL OPEN POSTS SHALL HAVE END-CAPS
6. USE GALVANIZED HOG-RING WORE TO MOUNT ALL SIGNS
7. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC
8. USE COMMERCIAL GRADE MATERIALS ONLY

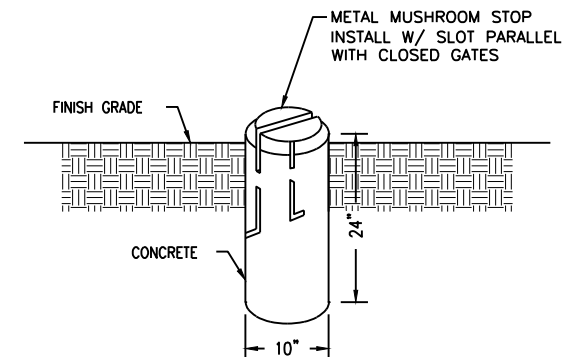
REFERENCE NOTES:

- | | |
|--|---|
| ① CORNER END OR PULL POST 4" NOMINAL SCHEDULE 40 PIPE. | ⑫ 2" FINISH OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK |
| ② LINE POST: 2 1/2" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C. | ⑬ 4" COMPACTED 95% BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK. |
| ③ TOP RAIL & BRACE RAIL: 1 1/2" PIPE, PER ASTM-F1083 | ⑭ FINISH GRADE SHALL BE UNIFORM AND LEVEL |
| ④ FABRIC" 9GA CORE WIRE SIZE 2' MESH, CONFORMING TO ASTM-A392 | ⑮ GATE POST 4" SCHEDULE 40 PIPE. FOR GATE WIDTHS UP THRU 7 FEET OR 4 FEET FOR DOUBLE SWING GATE, PER ASTM-F1083 |
| ⑤ TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE END AT TENSIONS WIRE BU HOG RINGS SPACED AX. AT 24" O.C. | ⑯ GATE FRAME: 2" STD. GAUGE PIPE, PER ASTM-F1083 |
| ⑥ TENSION WIRE: 9GA GALVANIZE STEEL | ⑰ GATE FRAME: 2" STD. GAUGE PIPE, PER ASTM-F1083 |
| ⑦ BARBED WIRE: DOUBLE STRAND 12 1/2" OD TWISTED WIRE TO MATCH WITH FABRIC 14GA, 4PT. BARBS SPACE ON APPROX. 5" CENTERS | ⑱ GATE DIAGONAL GALVANIZED STEEL 1 1/2" PIPE |
| ⑧ STRETCHER BAR | ⑲ DUCK BILL OPEN GATE HOLDER. VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION |
| ⑨ 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD | ⑳ GEOMETRIES FABRIC |
| ⑩ FENCE CORNER POST BRACE: 1 5/8" DIAZ. EACH CORNER EACH WAY | ㉑ LINE POST: CONCRETE FOUNDATION (2500 PSI) |
| ⑪ 1" MAXIMUM CLEARANCE FROM GRADE | ㉒ CORNER POST: CONCRETE FOUNDATION (2500 PSI) |
| | ㉓ GATE POST: CONCRETE FOUNDATION (2500 PSI) |
| | ㉔ STYMIE LOCK OR EQUIVALENT |

1 FENCE DETAIL
C-6 SCALE: N.T.S.

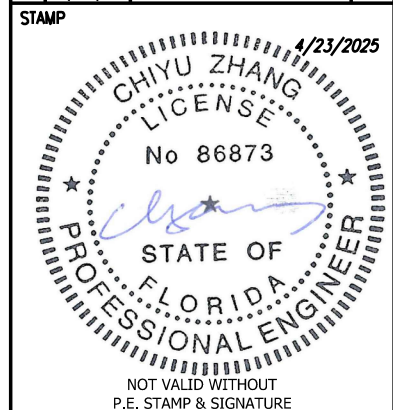


2 GRAVEL COMPOUND DETAIL
C-6 SCALE: N.T.S.



3 MUSHROOM STOP DETAIL
C-6 SCALE: N.T.S.

ACGI NO:	23-2337		
DRAWN BY:	RM		
CHECKED BY:	CZ		
REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

**FENCE
LAYOUT &
DETAILS**

SHEET NUMBER:

C-6

DETAILS BY OTHERS NOTE:
DETAILS SHOWN ON THIS PAGE WERE PROVIDED
BY OTHERS AND ARE NOT CARRIED UNDER THE
SIGNATURE AND SEAL OF ALLPRO CONSULTING
GROUP, INC. AND/OR IT'S ENGINEERS.

TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019



CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY

SUITE 204, DALLAS, TX 75243

PHONE: 972-231-8893

FAX: 866-364-8375

www.allprocgi.com

FLORIDA FIRM REGISTRATION # 27492

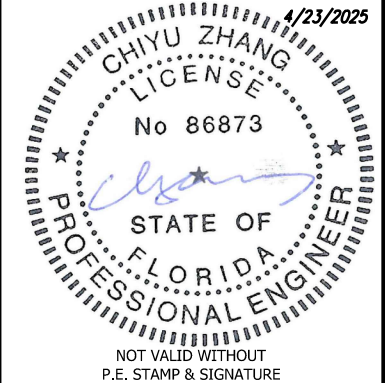
ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS				
REV	DATE	DESCRIPTION	BY	
4	04/23/25	DRC COMMENTS & REDLINES	RM	
3	03/05/25	DRC COMMENTS & REDLINES	RM	
2	10/15/24	CITY COMMENTS	RM	
1	07/25/24	REV. PER CM REDLINES	RM	
0	05/30/24	FINAL CD	RM	

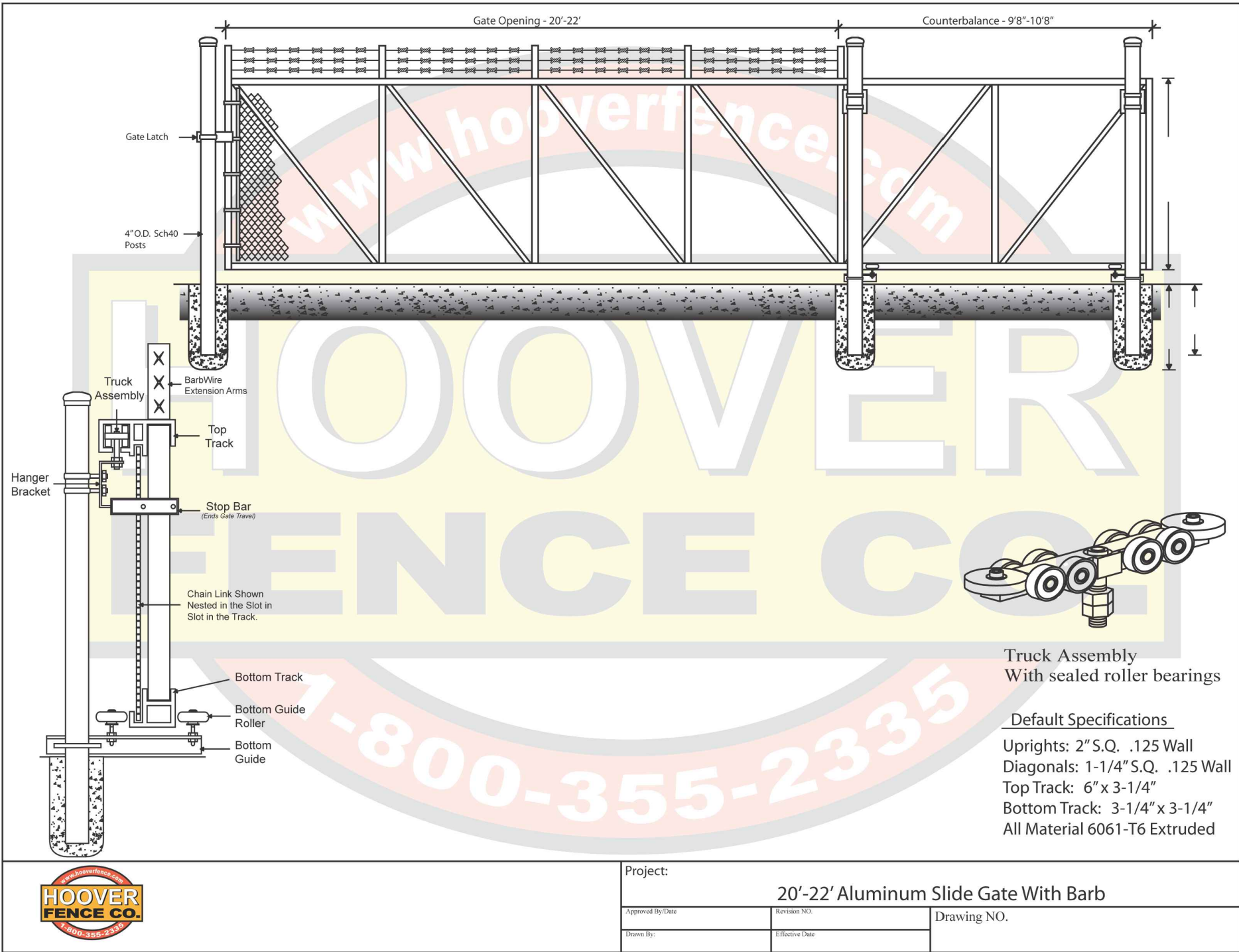
STAMP



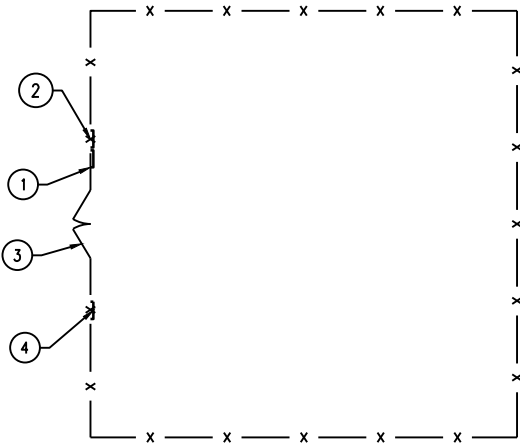
SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
**FENCE
LAYOUT &
DETAILS**

SHEET NUMBER:
C-6.1

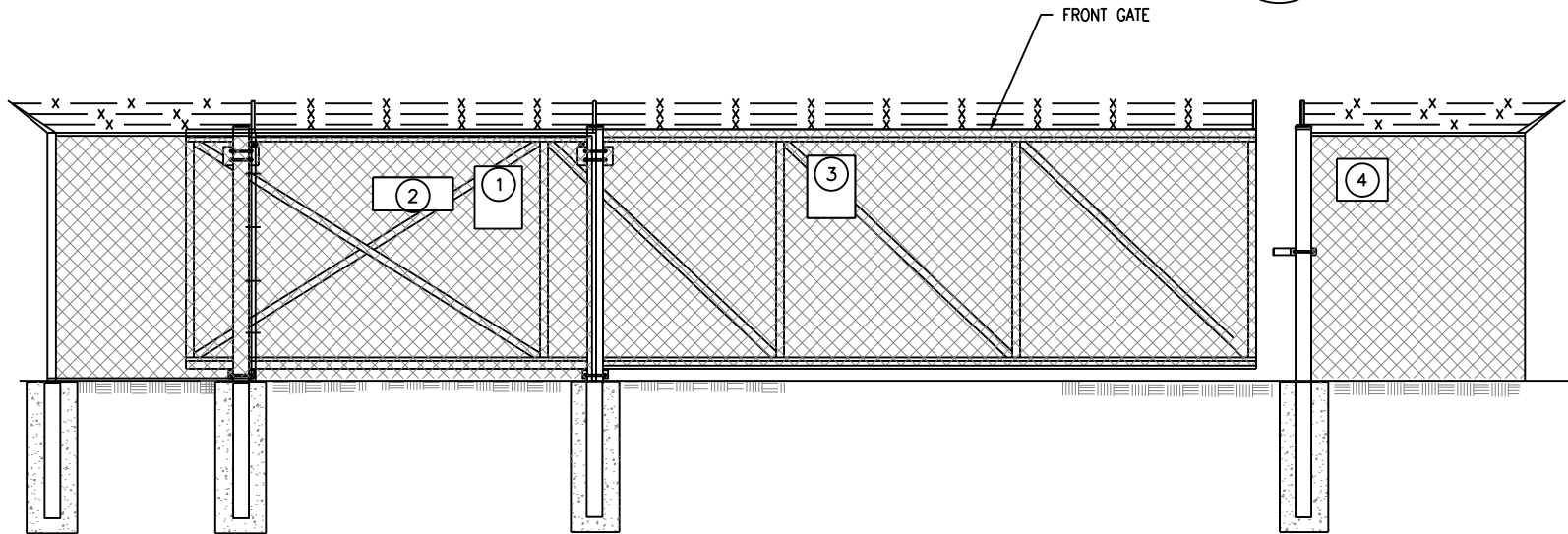


1 **GATE DETAIL**
C-6.1 SCALE: N.T.S.



NOTE:
SEE TYPICAL SIGNS AND
SPECIFICATIONS DETAIL ON
THIS SHEET FOR SIGN DESIGNATIONS.

1 SIGN PLACEMENT PLAN VIEW
C-7 SCALE: N.T.S.



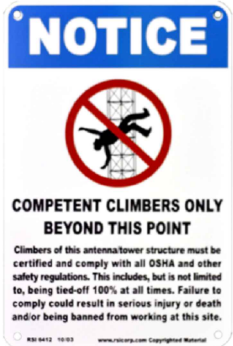
3 SIGN PLACEMENT FRONT GATE VIEW
C-7 SCALE: N.T.S.

NOTE:

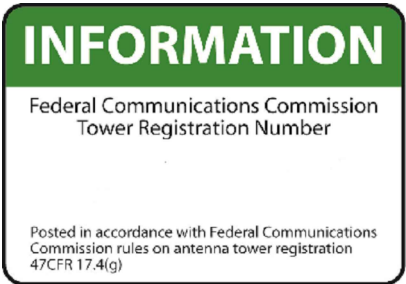
GENERAL CONTRACTOR SHALL PROCURE AND PROVIDE 0.063" RUST FREE ALUMINUM SIGNS WITH ONE YEAR WARRANTY FOR ALL SIGNS



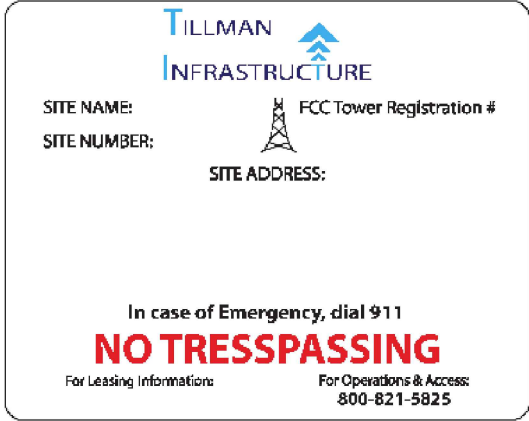
1 NOTICE - RF SIGN (BLUE)
12" x 18" DIGITAL PRINT MOUNTED TO 0.063" THICK ALUMINUM



3 TOWER CLIMBING SIGN DETAIL
12" x 18" DIGITAL PRINT MOUNTED TO 0.063" THICK ALUMINUM



4 ASR SIGN
10" x 12" DIGITAL PRINT MOUNTED TO 0.063" THICK ALUMINUM



2 SITE OWNER SIGN
30" X 36" DIGITAL PRINT MOUNTED TO 0.063" THICK ALUMINUM



5 CATTLE SIGN (AS REQUIRED)
SITES WITH LIVESTOCK SHALL HAVE THIS SIGN ON THE RANCH GATE/ACCESS GATE

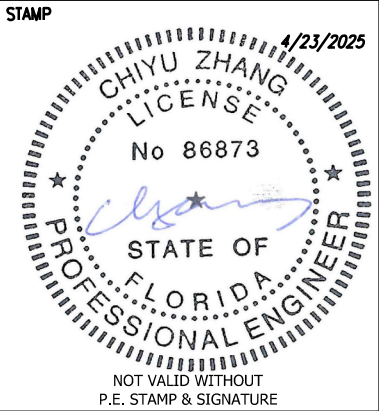
- SIGNAGE NOTES:
- SIGNS SHALL FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATING.
 - SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL B MOUNTED TO THE TOWER, GATE, AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILITIES IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.

TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019



ALLPRO
CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO:	23-2337		
DRAWN BY:	RM		
CHECKED BY:	CZ		
REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

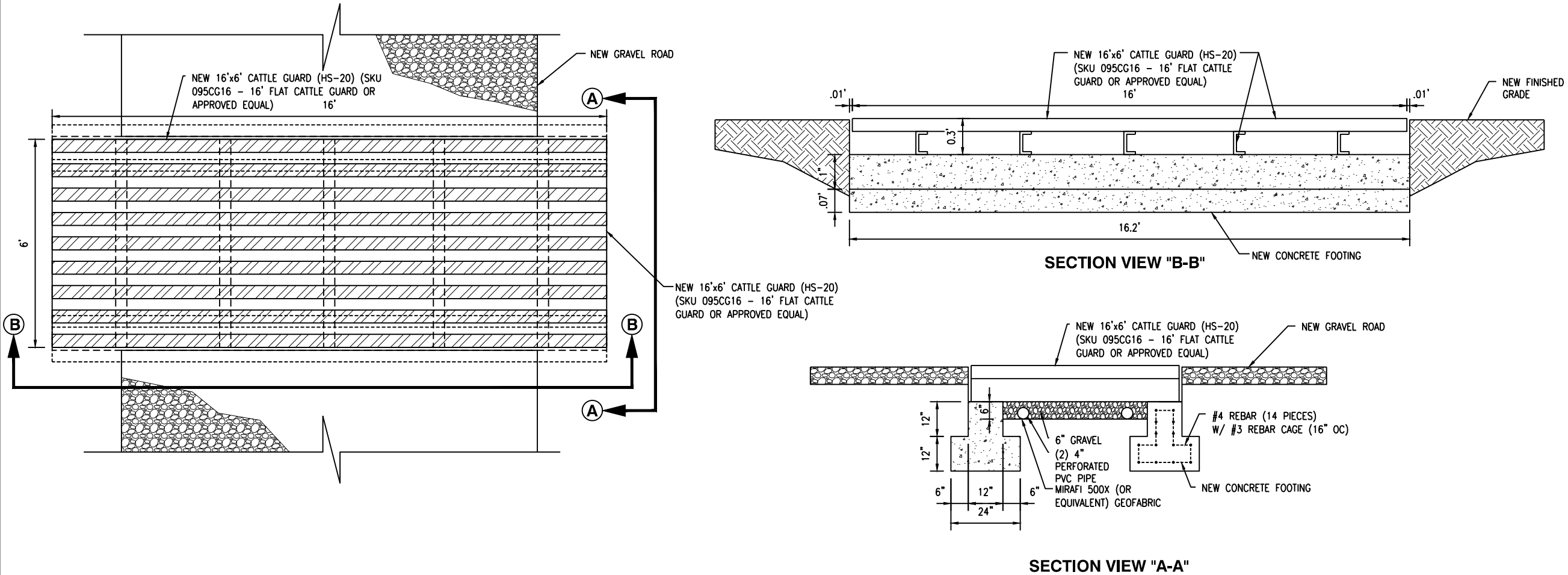
SHEET TITLE:
SITE SIGNAGE
DETAILS

SHEET NUMBER:

C-7

DETAILS BY OTHERS NOTE:
DETAILS SHOWN ON THIS PAGE WERE PROVIDED
BY OTHERS AND ARE NOT CARRIED UNDER THE
SIGNATURE AND SEAL OF ALLPRO CONSULTING
GROUP, INC. AND/OR IT'S ENGINEERS.

NOTE:
CATTLE GUARDS ARE DESIGNED TO SUPPORT THE WEIGHT OF VEHICLES,
AND THEIR LOAD-BEARING CAPACITY VARIES DEPENDING ON THE MATERIALS
AND CONSTRUCTION. THEY ARE TYPICALLY RATED TO HANDLE LOADS FROM
STANDARD PASSENGER VEHICLES UP TO HEAVY FARM EQUIPMENT, WITH
RATINGS RANGING FROM 10 TO 20 TONS OR MORE. FOR PUBLIC ROADS,
AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION
OFFICIALS) STANDARDS OFTEN DICTATE AN H-20 LOAD RATING, MEANING
THE CATTLE GUARD CAN SUPPORT UP TO 16,000 POUNDS PER AXLE.



1 CATTLE GUARD DETAILS
C-8 SCALE: N.T.S.

TILLMAN

INFRASTRUCTURE

152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

AT&T

ALLPRO

CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

4/23/2025

CHIU ZHANG

LICENSE

No 86873

STATE OF FLORIDA

PROFESSIONAL ENGINEER

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION

AT&T NUMBER

15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER

TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS

1320 SW MARTHA ST

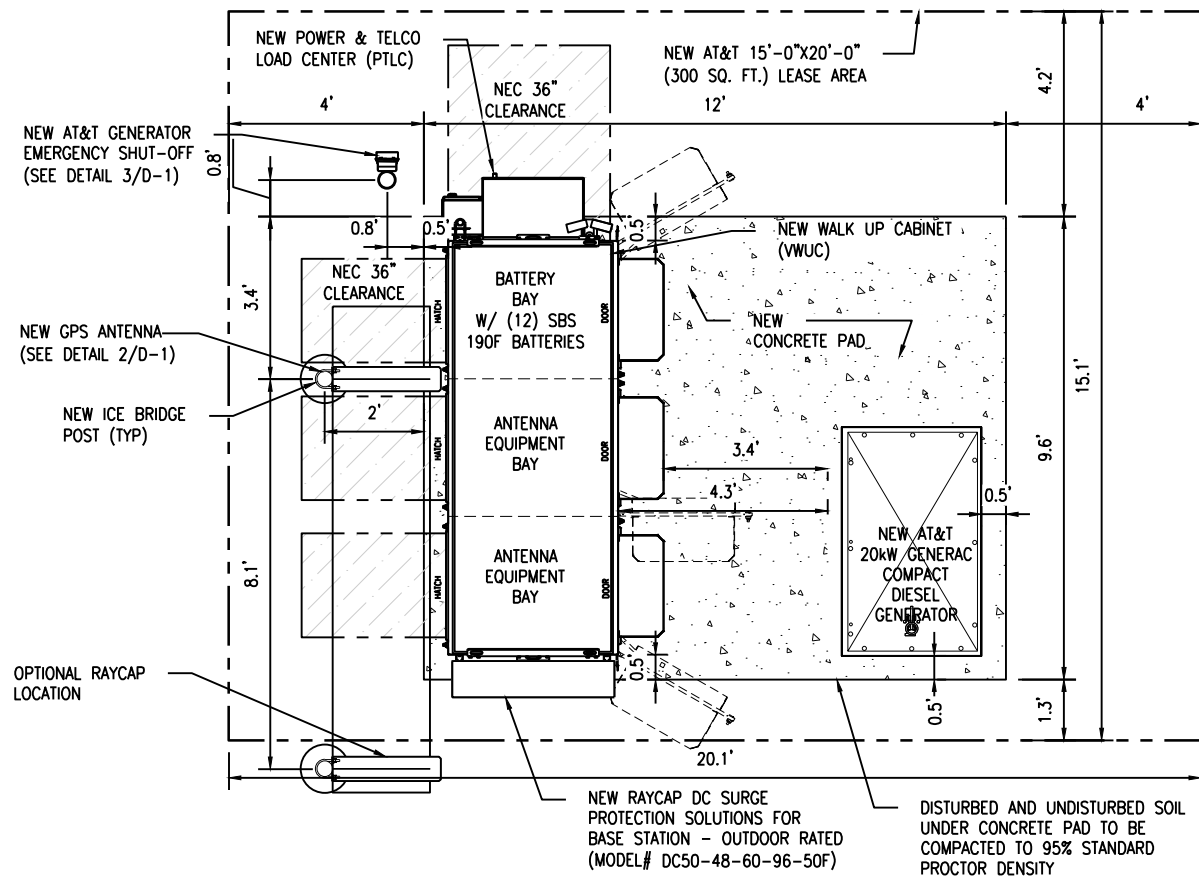
ARCADIA, FL 34266

SHEET TITLE:

CATTLE
GUARD DETAILS

SHEET NUMBER:

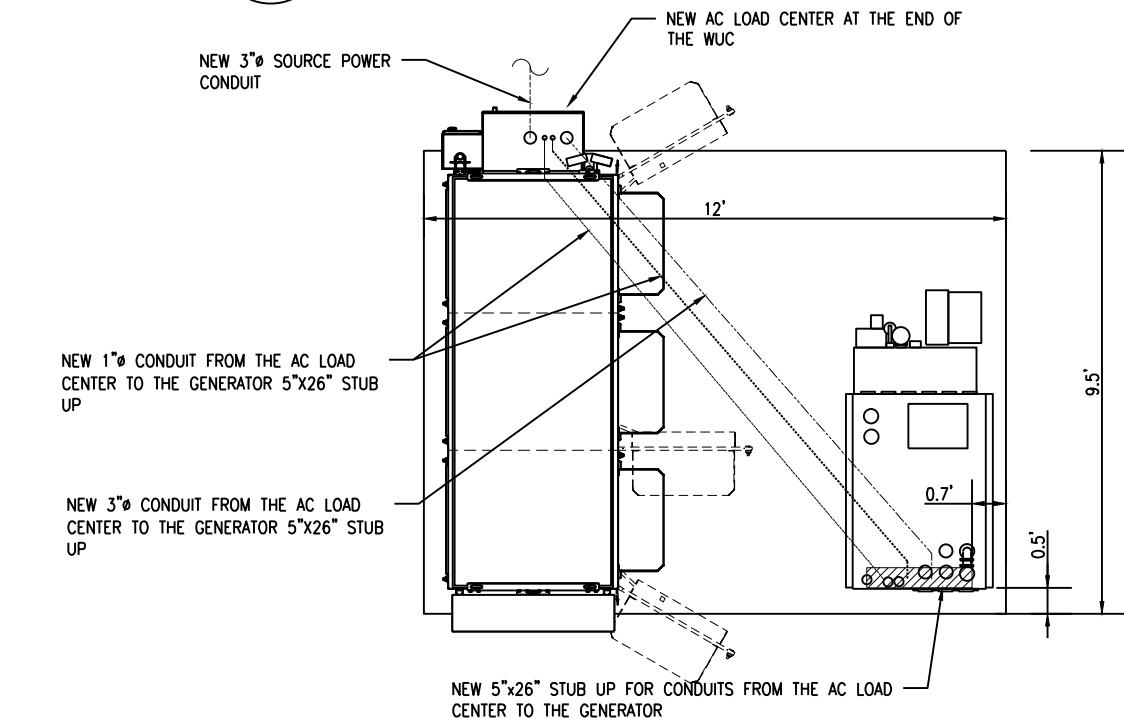
C-8



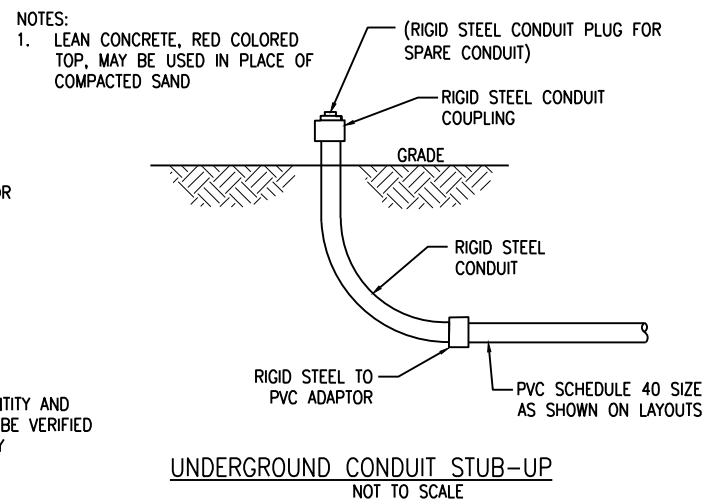
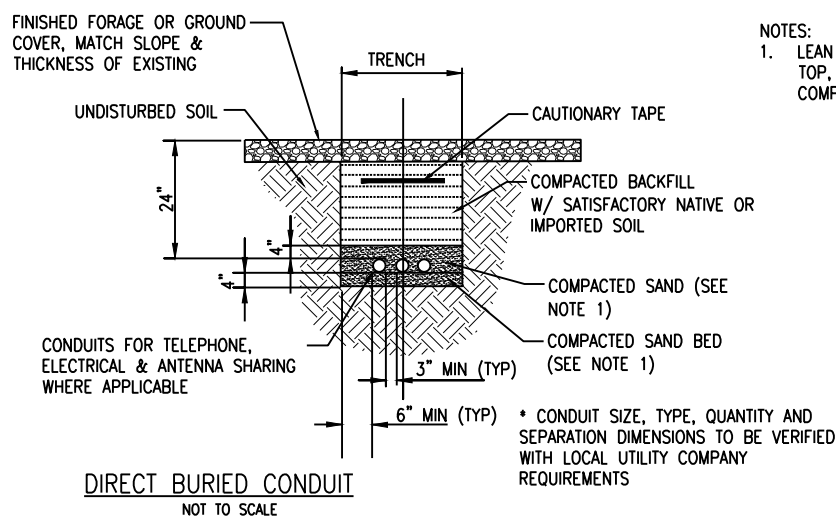
1
D-1
CONCRETE PAD LAYOUT
SCALE: N.T.S.

- NOTES:
1. REFER TO D-3 FOR VWUC SPECIFICATIONS
 2. REFER TO ATTACHMENTS FOR GENERATOR SPECIFICATIONS

BATTERY SPECIFICATIONS:	
ENERSYS POWERSAFE SBS-190F BATTERY 12V 190AH FRONT TERM	
QUANTITY:	12
SKU / OSI ITEM NUMBER:	SBS-190F
CHEMISTRY:	SEALED LEAD ACID
NOMINAL VOLTAGE:	12V
NOMINAL CAPACITY:	190.0AH
TERMINALS:	M6
DIMENSIONS (L X W X H):	22.10 X 4.90 X 12.40
WEIGHT (POUNDS):	132.3

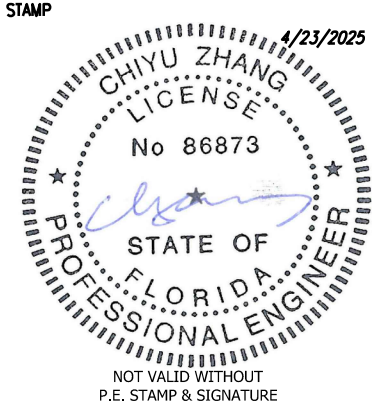


2
D-1
CONCRETE PAD CONDUIT ROUTING
SCALE: N.T.S.



9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocg.com
FLORIDA FIRM REGISTRATION # 27492

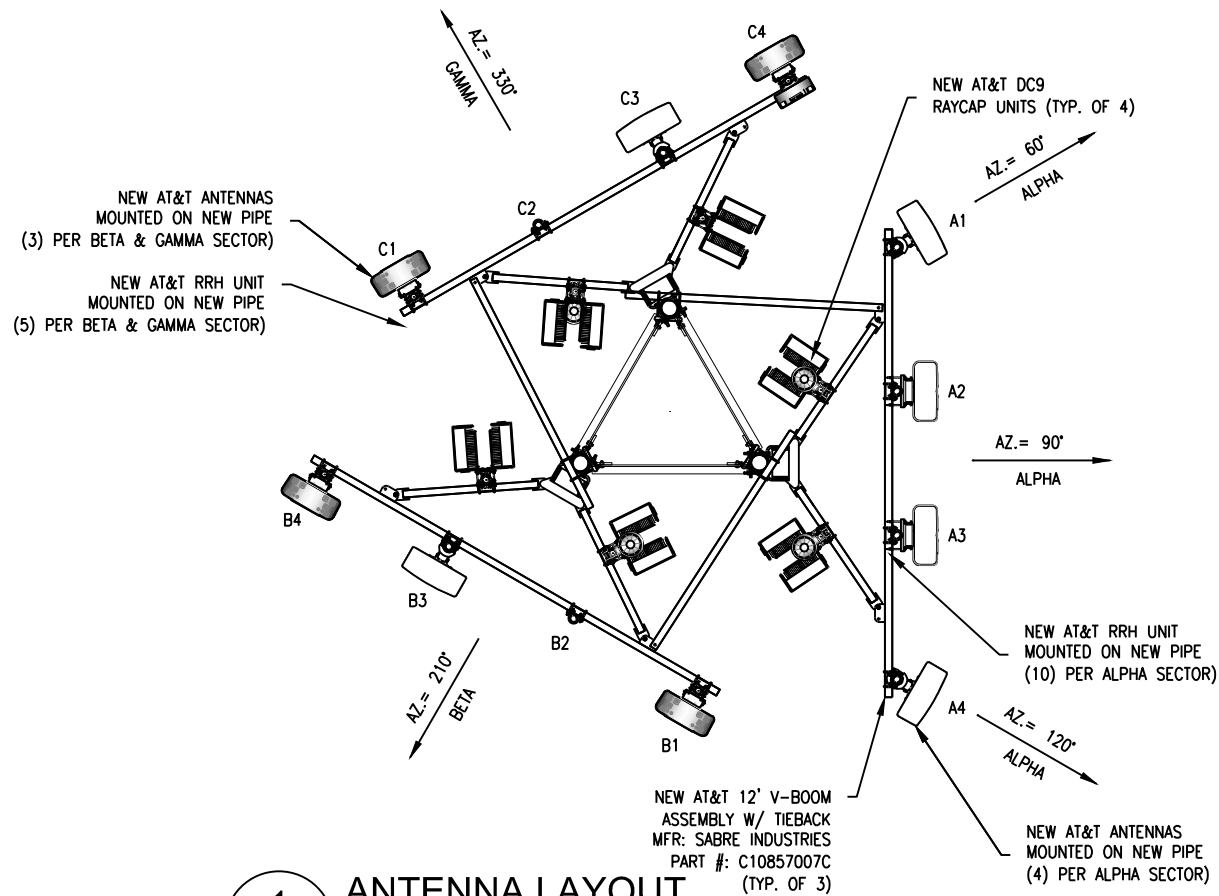
ACGI NO:	23-2337		
DRAWN BY:	RM		
CHECKED BY:	CZ		
REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
EQUIPMENT LAYOUT & DETAILS

SHEET NUMBER:
D-1



1 ANTENNA LAYOUT
D-2 SCALE: N.T.S.

NOTE:
NEW ANTENNA PLACEMENT LOCATION TO BE FIELD VERIFIED BY GENERAL CONTRACTOR PRIOR TO CONSTRUCTION TO AVOID ANY INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS. IF INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS IS DISCOVERED DURING FIELD VERIFICATION, PLEASE CONTACT ALLPRO CONSULTING GROUP INC. FOR DESIGN REVISION PRIOR TO ANY NEW ANTENNA INSTALLATION.

CLIMBERS NOTE:
CLIMBERS SHOULD NOT LATCH OR TIE THEIR SUPPORT LANYARD OR GEAR ON TO ANTENNAS, RADIOS, ANTENNA MOUNTS ETC WITHOUT PROPER EVALUATION. THEY SHOULD ONLY TIE TO THEIR SUPPORT LANYARDS OR GEAR TO OR ATTACH TO TOWER STRUCTURAL MEMBERS THAT HAVE VISIBLE BOLTING AND CONNECTION TO THE LARGER STRUCTURE.

NOTE:
PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE NEW LOADS. STRUCTURAL ANALYSIS BY OTHERS.

NOTE:
MOUNT ANALYSIS BY OTHERS. NO ANTENNAS OR EQUIPMENT SHALL BE INSTALLED WITHOUT THE APPROVAL OF A STRUCTURAL ENGINEER.

NOTE:
ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

CABLE NOTE:
CONTRACTOR TO VERIFY AT&T MARKET STANDARD & LENGTHS PRIOR TO ORDERING COAX OR HYBRIFLEX CABLE

NOTE:
THE LATEST ANTENNA DESIGN IS TO BE REFERENCED PRIOR TO TOWER WORK TO VERIFY THE LATEST EQUIPMENT IS ACCOUNTED FOR.

PROPOSED ANTENNA CONFIGURATION AND CABLE SCHEDULE										
SECTOR	POS	TECH	ANTENNA	ANTENNA Q HEIGHT	AZ	TMA/RRU	DC SURGE AND DISTRIBUTION	CABLE TYPE	CABLE LENGTH	DOWN TILTS
A	1	5G CBAND 5G DOD	ERICSSON AIR6419 B77D + AIR6419 B77G (STACKED)	195' AGL	60°	INTEGRATED WITHIN: AIR6419 B77G INTEGRATED WITHIN: AIR6419 B77D	(4) RAYCAP DC9-48-60-24-8C-EV	(4) 1" (WR-VG66ST-BRD) (2) 3/8" (FB-L98B-235; 24-PAIR)	200'	2
	2	LTE 700/1900/AWS 5G 850	ANDREW 2NN2HH-33B-R4		90°	RRH 4890 B25/B66 RRH 4890 B25/B66 RRH 4490 B5/B12A				1
	3	LTE 700/1900/AWS	ANDREW 2NN2HH-33B-R4		90°	RRH 4494 B14/B29 RRH 4490 B5/B12A RRH 4494 B14/B29				1
	4	5G CBAND 5G DOD	ERICSSON AIR6419 B77D + AIR6419 B77G (STACKED)		120°	INTEGRATED WITHIN: AIR6419 B77G INTEGRATED WITHIN: AIR6419 B77D				2
B	1	LTE 700/1900/AWS 5G 850	ANDREW NNH4-85B-R6	195' AGL	210°	RRH 4490 B5/B12A RRH 4890 B25/B66		(2) 1" (WR-VG66ST-BRD) (1) 3/8" (FB-L98B-235; 24-PAIR)	200'	1
	2									
	3	5G CBAND 5G DOD	ERICSSON AIR6419 B77D + AIR6419 B77G (STACKED)		210°	INTEGRATED WITHIN: AIR6419 B77G INTEGRATED WITHIN: AIR6419 B77D				2
	4	LTE 700/LTE	ANDREW NNH4-85B-R6		210°	RRH 4494 B14/B29				1
C	1	LTE 700/1900/AWS 5G 850	ANDREW NNH4-65B-R6H4	195' AGL	330°	RRH 4490 B5/B12A RRH 4890 B25/B66		(2) 1" (WR-VG66ST-BRD) (1) 3/8" (FB-L98B-235; 24-PAIR)	200'	1
	2									
	3	5G CBAND 5G DOD	ERICSSON AIR6419 B77D + AIR6419 B77G (STACKED)		330°	INTEGRATED WITHIN: AIR6419 B77G INTEGRATED WITHIN: AIR6419 B77D				2
	4	LTE 700/LTE	ANDREW NNH4-65B-R6H4		330°	RRH 4494 B14/B29				1

* INCLUDES SAFETY FACTOR OF 20' FT. (10 FT. AT BOTH ENDS OF CABLE RUN). CONTRACTOR TO VERIFY RF DATA WITH AT&T WIRELESS CONSTRUCTION MANAGER AND/OR RF ENGINEER PRIOR TO INSTALLATION

TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337
DRAWN BY: RM
CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

ANTENNA
LAYOUT

SHEET NUMBER:

D-2



Vertiv™ NetSure™ X701 Walk Up Cabinet (WUC)

Description

The Vertiv™ NetSure™ X701 provides room for power, batteries, and other sensitive equipment in a single convenient outdoor enclosure. Its aluminum construction provides protection from both vandalism and harsh environmental conditions while still standing up to high winds and seismic events. With up to 15kW of heat dissipation available, the NetSure™ X701 outdoor enclosure is designed to handle ever-increasing heat load requirements at your base station and network edge sites.

- UL 2416 Certified
- Factory-integrated Vertiv™ NetSure™ 512 DC power system supports -48V and -58V DC load requirements
- Battery trays for (3) strings of VRLA batteries up to 210Ah each
- Up to 74RU of available equipment space
- Convenient cable entry and management throughout the enclosure



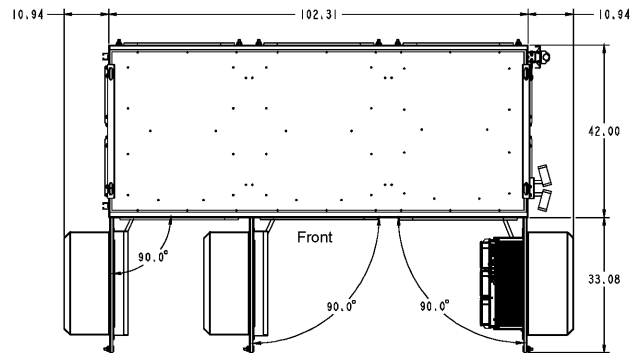
Technical Specifications

Enclosure	
	Dimensions (H x W x D) 86" x 68" x 54"
	Weight 1300 lbs.
Two-Bay	Equipment Space 43 RU available
	Color Cool White
	Cabinet Access Front door and rear panels
	Security All handles can accommodate padlock
Three-Bay	Dimensions (H x W x D) 74" x 102" x 54"
	Weight 1650 lbs.
	Equipment Space 76 RU available
	Color Cool White
	Cabinet Access Front door and rear panels
	Security All handles can accommodate padlock
Mounting	
Mounting Options	Pad, Platform
Racks	Adjustable 19" to 23" racks in each equipment chamber
Electrical	
Input/Output Voltage	208/240VAC single-phase input; -48VDC primary/-58VDC secondary output
Maximum Input Current	N/A (Generally used w/ customer-provided service entrance transfer switch, generally 200A)
Environmental	
Operating Temperature	-40°C to 46°C
Relative Humidity	0% to 95% non-condensing
Thermal Solutions	
Heat Exchanger	6000 watts in each equipment chamber, 2800 watts in power chamber
Equipment Chamber	
DC Power	Factory-integrated NetSure 512 system
AC Outlet	GFI
Grounding	Ground bar in each chamber
Standards Compliance	
Safety	UL 2416
Environment	Designed for Telcordia GR-487

Ordering Information, Three-Bay

AT&T Number	Vertiv Number	Description
CEO54298	F2020030	Vertiv™ NetSure™ X701 three-bay outdoor walk-up enclosure with 76 RU available
CEO53997	582137000501	NetSure™ 512, -48 VDC/-58 VDC, (43) -48 V load breaker positions, (16) -58 V load breaker positions, LVBD capability
	582137000027	(1) two row distribution cabinet
	582137000030	(4) rectifier shelves, 3 right positions can be used for -48V to -58V converters
	5821370000AC	(1) -48 VDC (30 position) distribution panel
	5821370000FJ	(1) -48 VDC (13 position) and -58 VDC (16 position) distribution panel
	1M830DNA10024046	(1) NCU controller
	552992	(2) 10M temperature probes
	541308	(2) alarm cables (power system side)
	541309	(2) alarm cable extensions
	582137000070	(1) extended interface board
	549017	(1) GMT fuse option board
		(1) 2800 watt door-mounted heat exchanger (power and battery chamber)
		(2) 6000 watt door-mounted heat exchanger (equipment chamber)
		(2) 66 blocks for alarms
		(3) 200 amp DC battery disconnects
		(4) 1000 watt equipment heaters
		(1) Duplex AC convenience outlet
		(3) 10-position ground bars

Figure 2.5 Overhead View with Door Open (F2020030) (3-Bay)



Notes:
1. All dimensions are in inches.

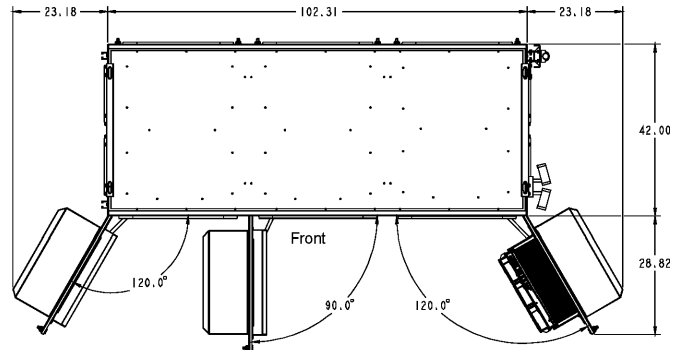
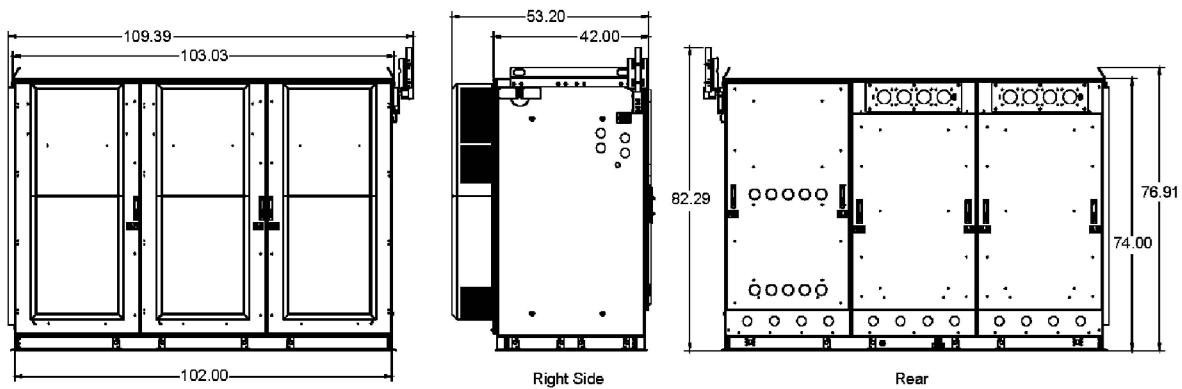


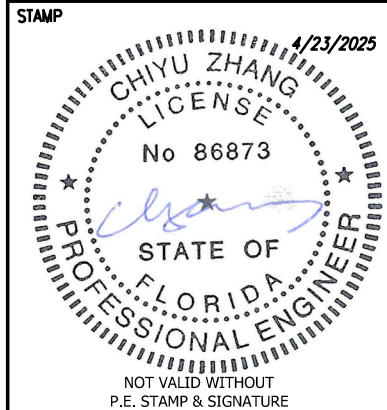
Figure 2.3 Enclosure Dimensions (F2020030) (3-Bay)



Notes:
1. All dimensions are in inches.



ACGI NO:	23-2337		
DRAWN BY:	RM		
CHECKED BY:	CZ		
REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

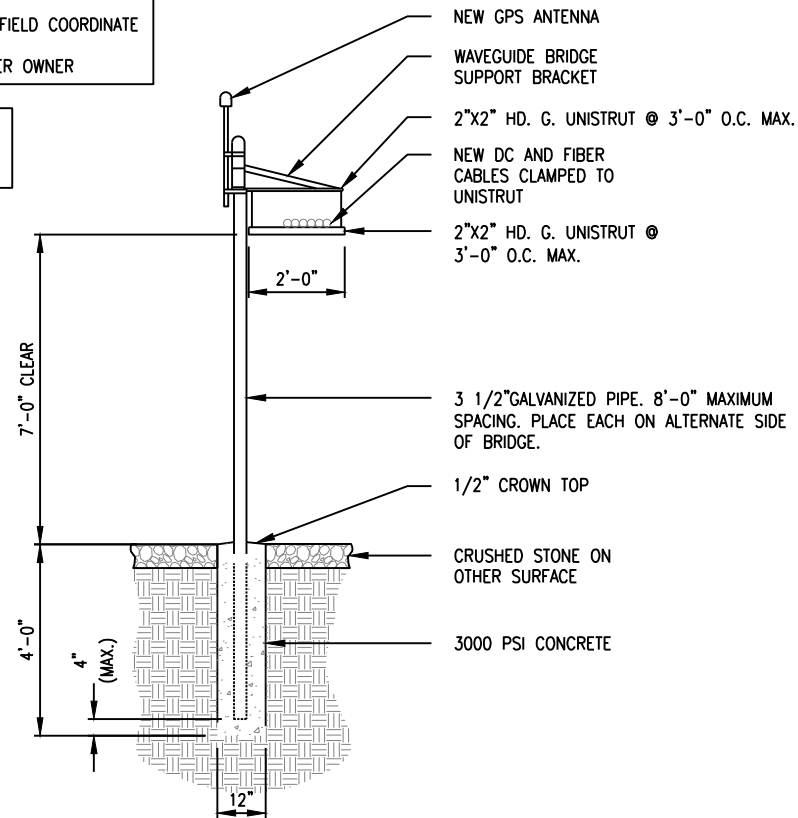
**VWUC
SPECIFICATIONS**

SHEET NUMBER:

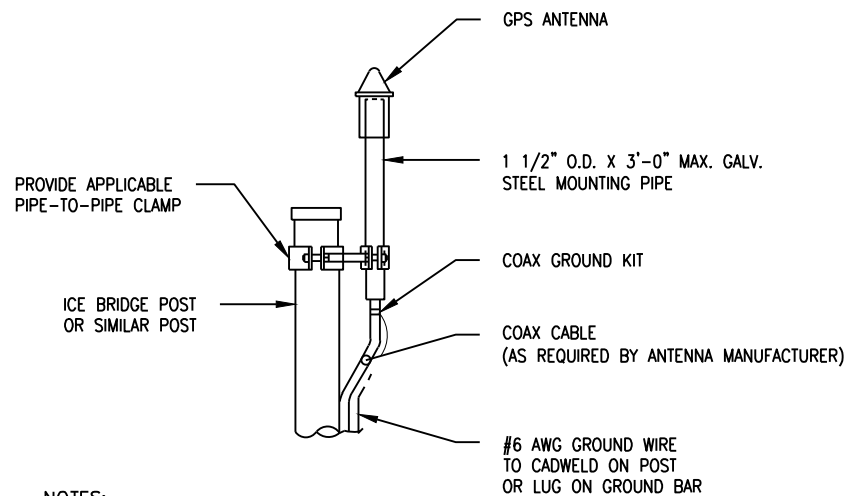
D-3

ICE BRIDGE NOTE:
PRIOR TO CONSTRUCTION FIELD COORDINATE
HEIGHT AND ROUTE
OF ICE BRIDGE WITH TOWER OWNER

ICE BRIDGE NOTE:
ALL SUPPORT POSTS
MUST BE GROUNDED



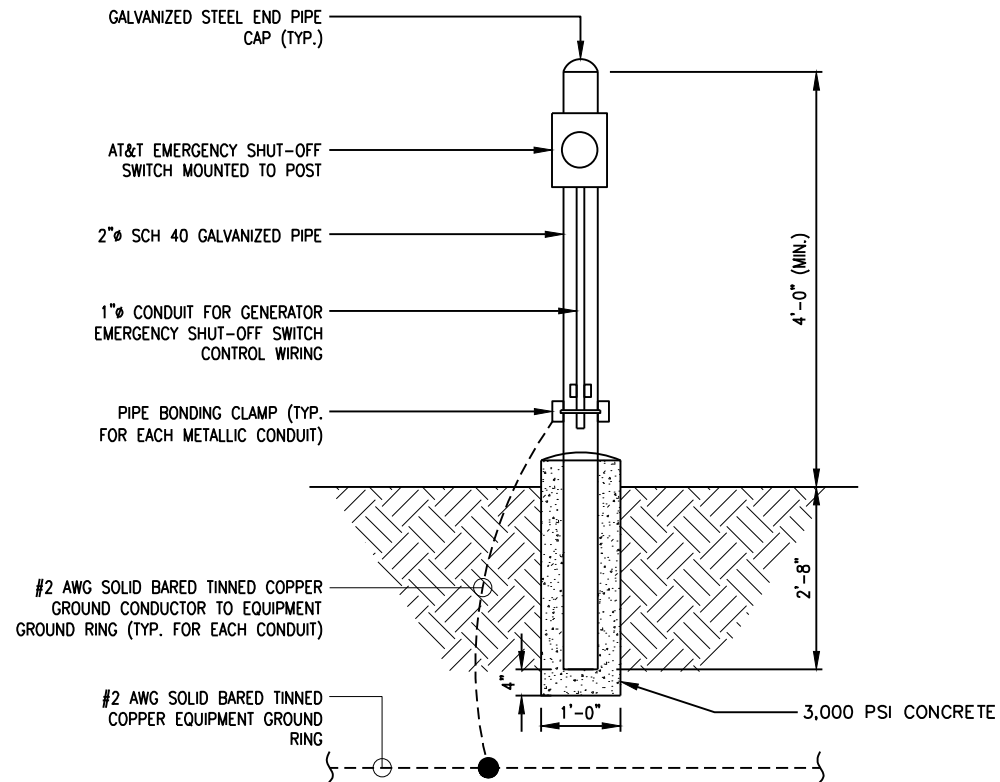
1 CABLE BRIDGE DETAIL
D-4 SCALE: N.T.S.



NOTES:

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
2. ALL GPS LOCATIONS MUST BE ABLE TO RECIEVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

2 GPS ANTENNA
MOUNTING DETAIL
D-4 SCALE: N.T.S.



3 EMERGENCY SHUT-OFF
SWITCH DETAIL
D-4 SCALE: N.T.S.

TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019



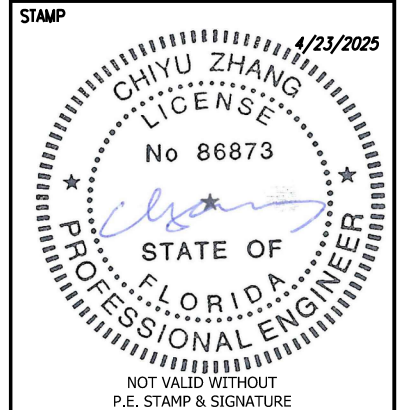
ALLPRO
CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS				
REV	DATE	DESCRIPTION	BY	
4	04/23/25	DRC COMMENTS & REDLINES	RM	
3	03/05/25	DRC COMMENTS & REDLINES	RM	
2	10/15/24	CITY COMMENTS	RM	
1	07/25/24	REV. PER CM REDLINES	RM	
0	05/30/24	FINAL CD	RM	



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
**EQUIPMENT
DETAILS**

SHEET NUMBER:
D-4

DETAILS BY OTHERS NOTE:
DETAILS SHOWN ON THIS PAGE WERE PROVIDED
BY OTHERS AND ARE NOT CARRIED UNDER THE
SIGNATURE AND SEAL OF ALLPRO CONSULTING
GROUP, INC. AND/OR IT'S ENGINEERS.



CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY

SUITE 204, DALLAS, TX 75243

PHONE: 972-231-8893

FAX: 866-364-8375

www.allproci.com

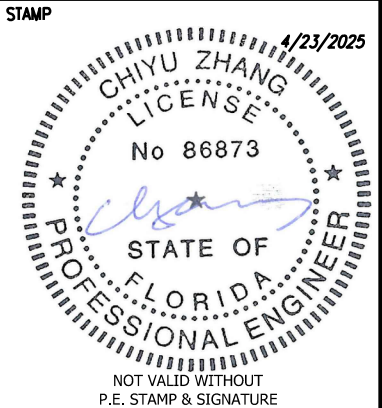
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

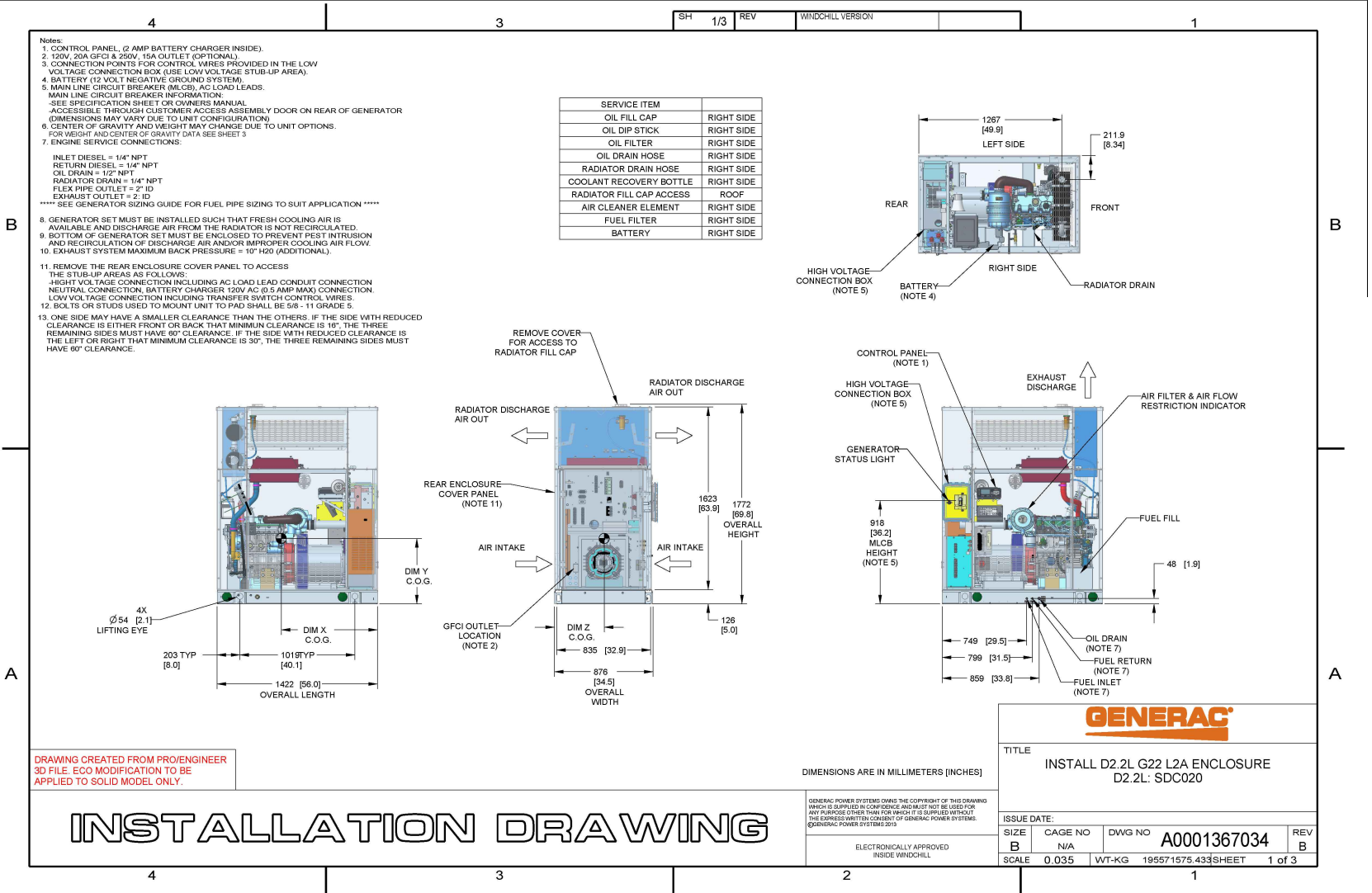
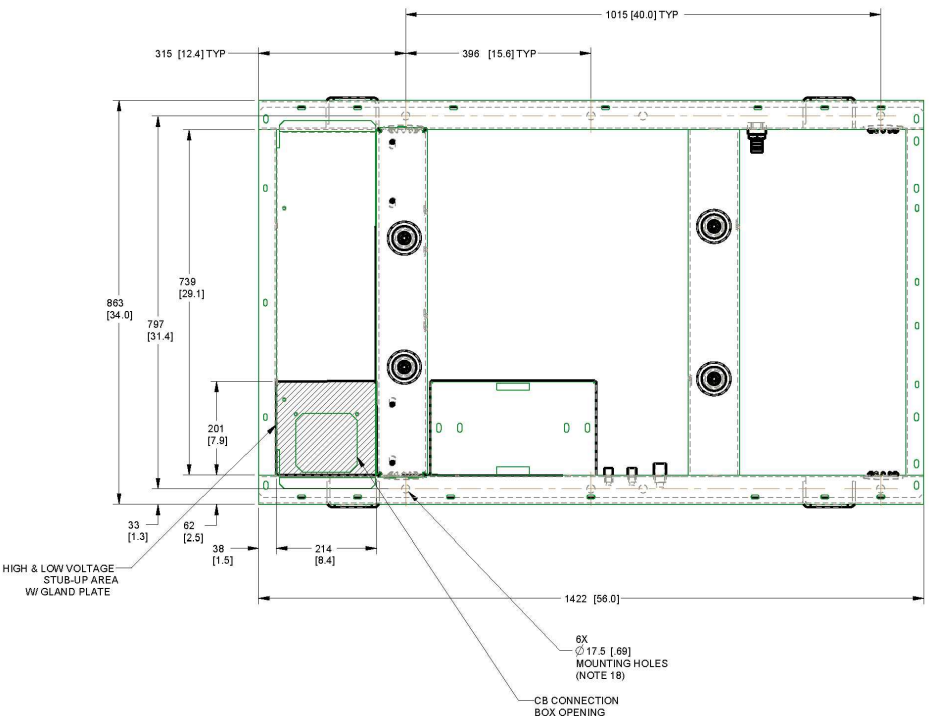
GENERATOR
SPECIFICATIONS

SHEET NUMBER:

D-6

L2A ENCLOSURE, ALUMINUM

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SD20	240V, 3	664.5 kg [1465 lbs.]	738 [29.1]	TBD [TBD]	450 [17.7]
SD20	208V, 240V, 480V, 600V/3	667.2 kg [1470.9 lbs]	737 [29.0]	TBD [TBD]	



INSTALLATION DRAWING

1

D-6

GENERATOR SPECIFICATIONS

SCALE: N.T.S.

DETAILS BY OTHERS NOTE:
DETAILS SHOWN ON THIS PAGE WERE PROVIDED
BY OTHERS AND ARE NOT CARRIED UNDER THE
SIGNATURE AND SEAL OF ALLPRO CONSULTING
GROUP, INC. AND/OR IT'S ENGINEERS.



CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allproci.com

FLORIDA FIRM REGISTRATION # 27492

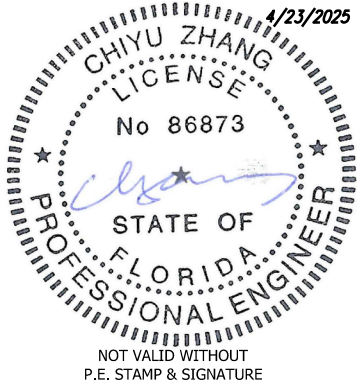
ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS				
REV	DATE	DESCRIPTION	BY	
4	04/23/25	DRC COMMENTS & REDLINES	RM	
3	03/05/25	DRC COMMENTS & REDLINES	RM	
2	10/15/24	CITY COMMENTS	RM	
1	07/25/24	REV. PER CM REDLINES	RM	
0	05/30/24	FINAL CD	RM	

STAMP



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

GENERATOR TANK
SPECIFICATION

SHEET NUMBER:

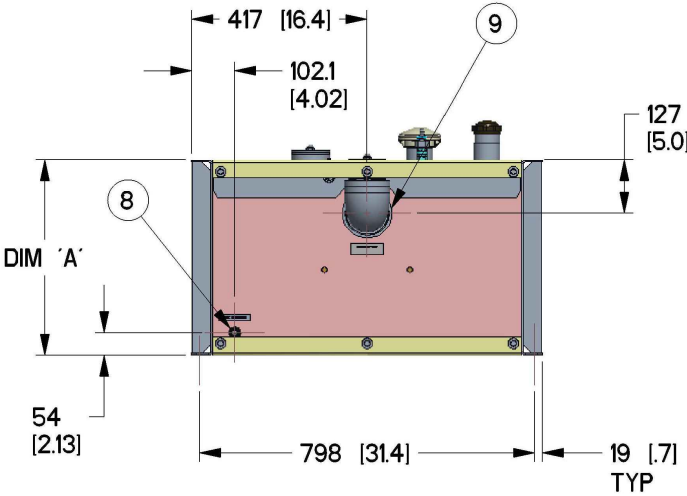
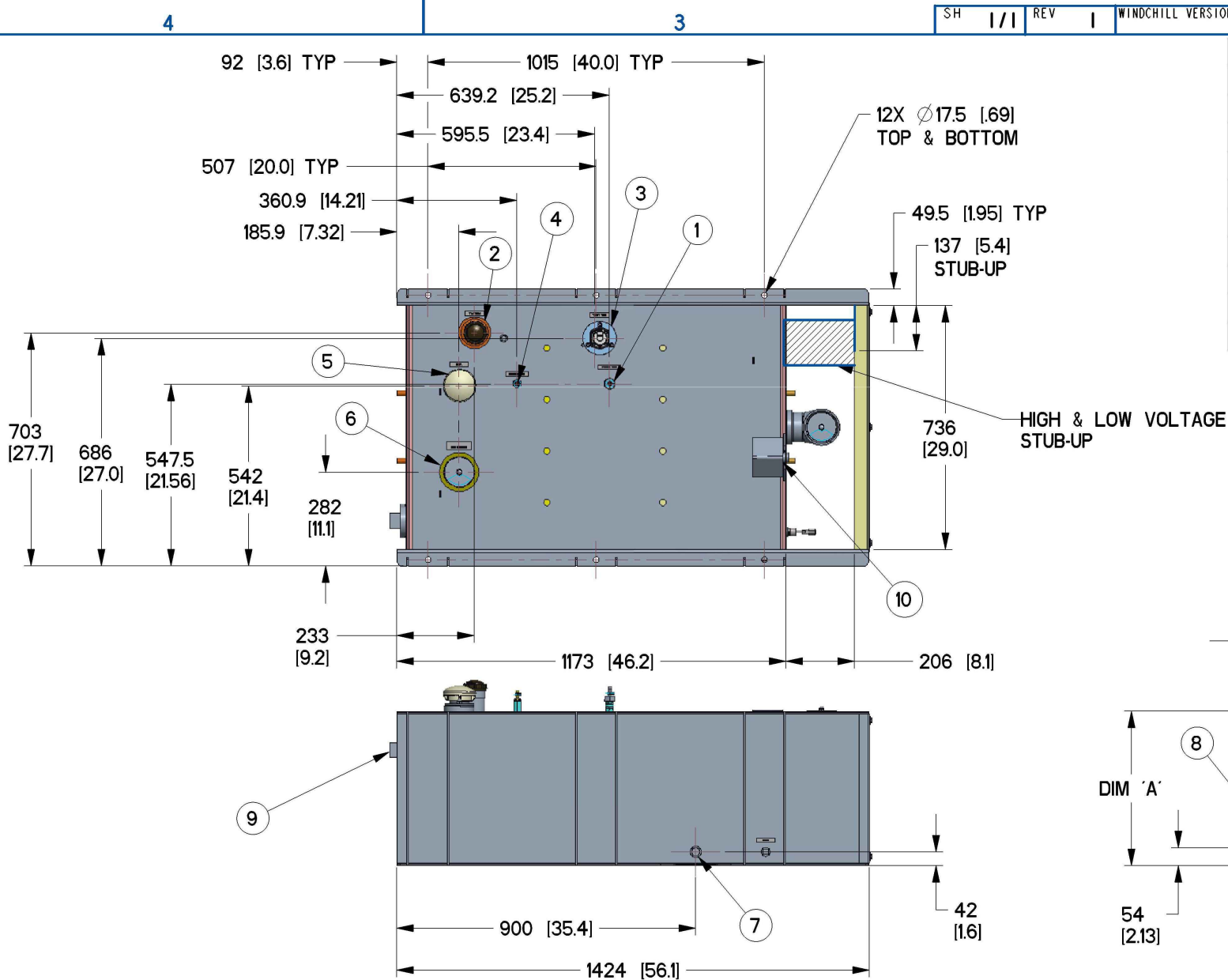
D-6.1

SH 1/1 REV 1 WINDCHILL VERSION 1.5

I/N	TANK FITTING	PROVIDING FUNCTION
1	3/8" NPT COUPLING	FUEL SUPPLY
2	2" NPT WELD FLANGE	FUEL FILL
3	FUEL LEVEL OPENING	FUEL LEVEL
4	3/8" NPT COUPLING	FUEL RETURN
5	2" NPT WELD FLANGE	VENT
6	3" NPT WELD FLANGE	EMERGENCY VENT
7	3/4" NPT COUPLING	DRAIN
8	1/2" NPT HALF COUPLING	LEAK DETECTOR
9	3" NPT WELD FLANGE	OUTER EMERGENCY VENT
10	1/2" NPT HALF COUPLING	FLUID DETECTOR (OPTIONAL)

CAPACITY: LITER [GALLONS]
WEIGHT: KILOGRAMS [POUNDS]
LENGTH: MM [INCH]

UL #142 / ULC-S601 LISTED



TANK P/N	A0001273353	A0001273985
DIM 'A'	466 [18.4]	766 [30.2]
TOTAL CAPACITY	56 GAL	105 GAL
USABLE CAPACITY	51 GAL	103 GAL
DRY WEIGHT	449 LB / 204 KG	625 LB / 283 KG

DIMENSIONS ARE IN MILLIMETERS [INCHES]

DRAWING CREATED FROM PRO/ENGINEER
3D FILE. ECO MODIFICATION TO BE
APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

GENERAC POWER SYSTEMS OWNS THE COPYRIGHT OF THIS DRAWING
WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT BE USED FOR
ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT
THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS.
© GENERAC POWER SYSTEMS 2013

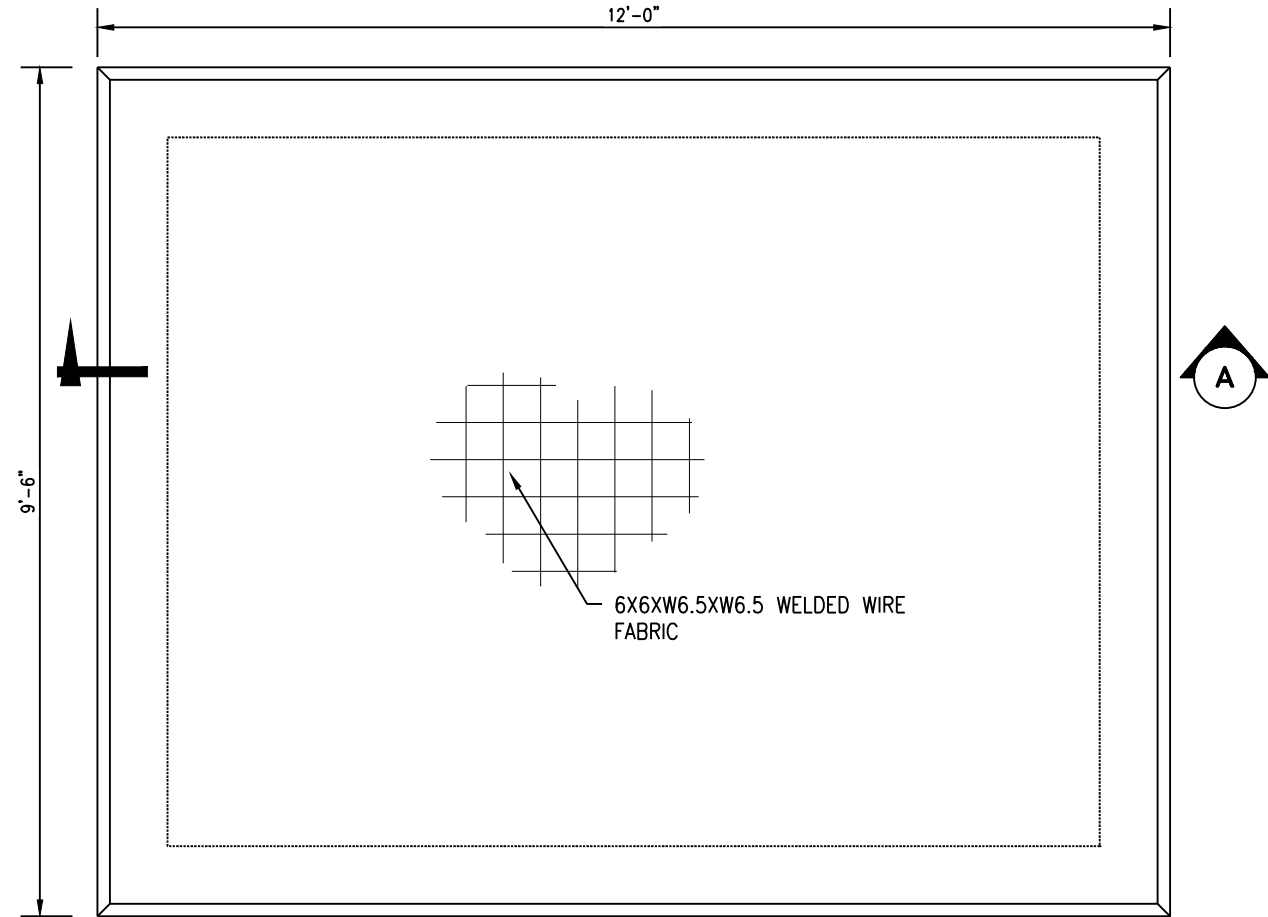
ELECTRONICALLY APPROVED
INSIDE WINDCHILL

GENERAC

TITLE
INSTALL COMPACT BASETANKS D2.2L

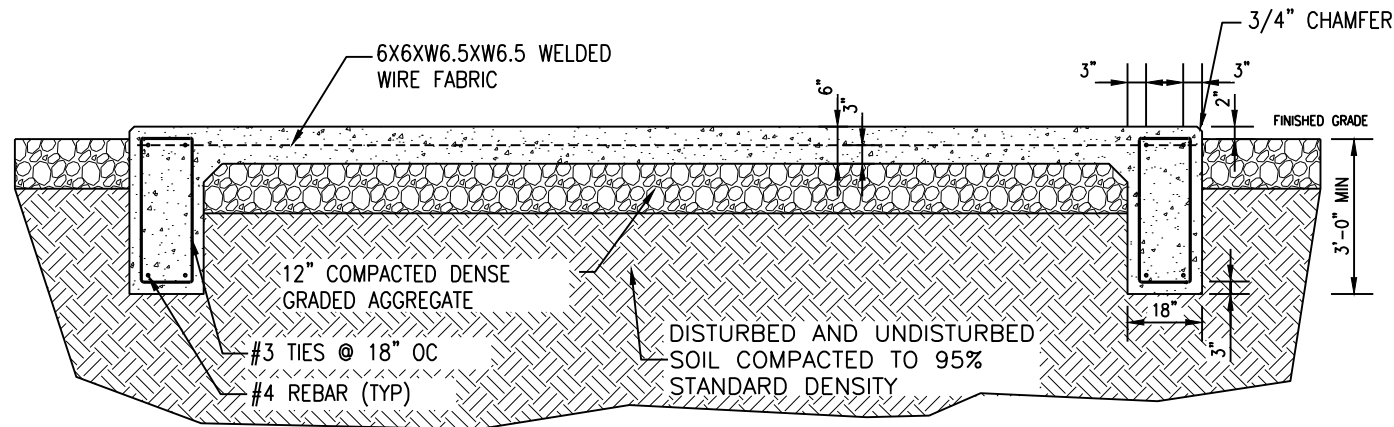
ISSUE DATE:

SIZE B	CAGE NO N/A	DWG NO A0001367037	REV 1
SCALE 0.070	WT-KG	SHEET 1 of 1	



NOTE:
FOR REFERENCE ONLY –
FOUNDATION DESIGNS ARE BY OTHERS.

3 CONCRETE PAD DETAIL
D-7 SCALE: N.T.S.



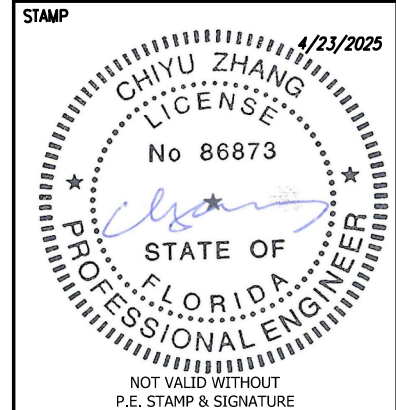
SECTION A-A
NOT TO SCALE

NOTES:

1. SLAB TO BE LEVEL $\pm 1/4"$.
2. FOOTING TO EXTEND A MINIMUM OF 24" BELOW UNDISTURBED SOIL OR 6" BELOW FROST LINE.
3. FINAL SITE DESIGN IS THE RESPONSIBILITY OF THE SITE CONTRACTOR.
4. CONTRACTOR SHALL VERIFY DESIGN WITH ACTUAL SITE CONDITIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. SLAB FOUNDATION DESIGNED ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
6. SLAB FOUNDATION DESIGNED ASSUMING MAXIMUM SOIL PLASTICITY INDEX OF 27.
7. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3000 PSI.
8. CONTRACTOR SHALL VERIFY DIMENSIONS AND BOLT LAYOUT WITH SELECTED SHELTER.

EQUIPMENT FOUNDATION HAS BEEN DESIGNED FOR SOILS HAVING AN ALLOWABLE BEARING CAPACITY OF 1500 PSF FOR CLAYSOILS & 2000 PSF FOR SANDY SOILS. NOTIFY ALLPRO CONSULTING GROUP INC., FOR A REDESIGN IF THE BEARING CAPACITY IS LESS THAN 1500 PSF

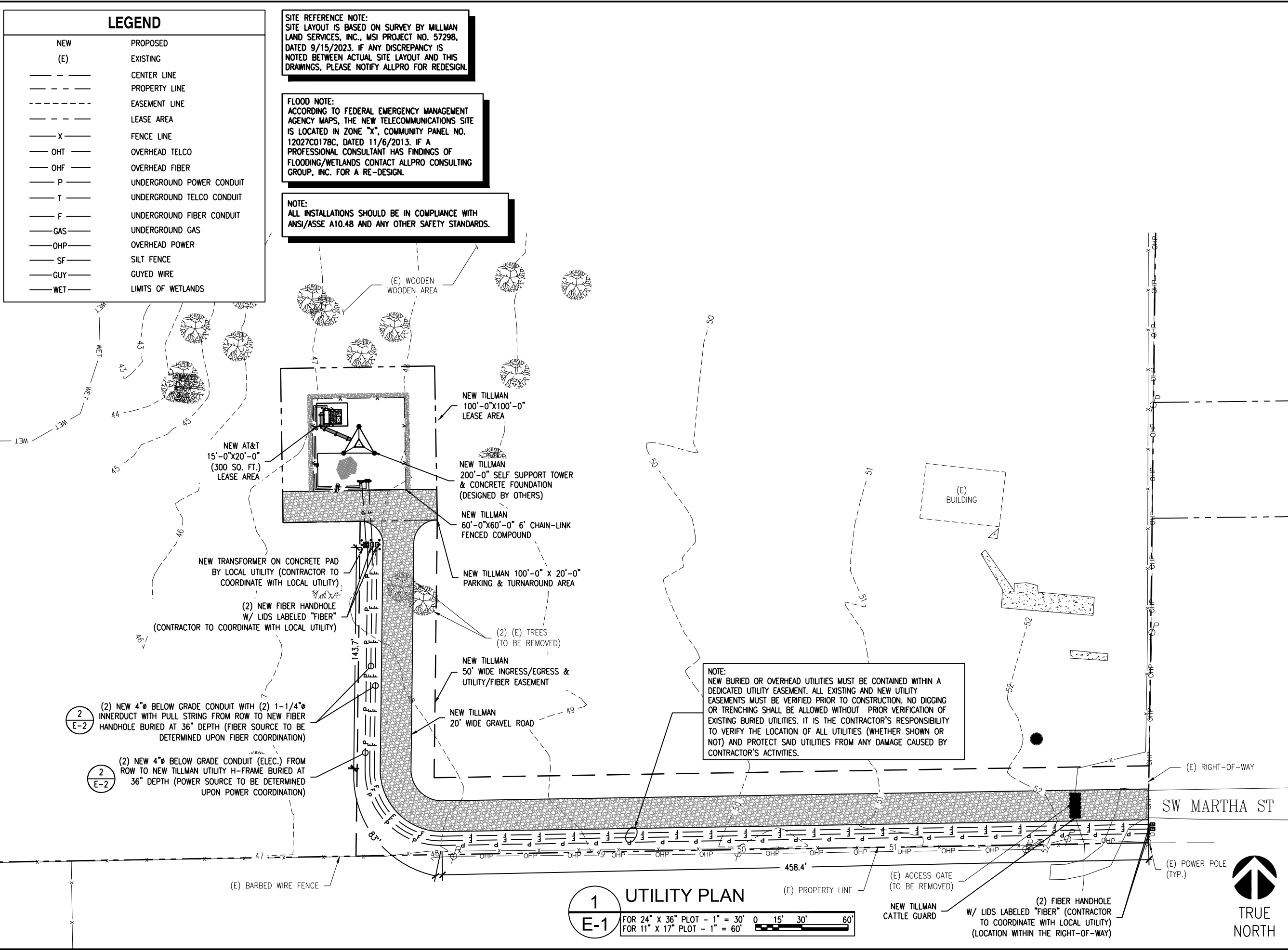
ACGI NO:	23-2337		
DRAWN BY:	RM		
CHECKED BY:	CZ		
REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
EQUIPMENT
CONCRETE PAD
AND DETAILS

SHEET NUMBER:
D-7



TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

AT&T

ALLPRO
CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337
DRAWN BY: RM
CHECKED BY: CZ

REVISIONS				
REV	DATE	DESCRIPTION	BY	
4	04/23/25	DRC COMMENTS & REDLINES	RM	
3	03/05/25	DRC COMMENTS & REDLINES	RM	
2	10/15/24	CITY COMMENTS	RM	
1	07/25/24	REV. PER CM REDLINES	RM	
0	05/30/24	FINAL CD	RM	

STAMP

4/23/2025

CHIU ZHANG
LICENSE
No 86873
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

UTILITY PLAN

SHEET NUMBER:

E-1

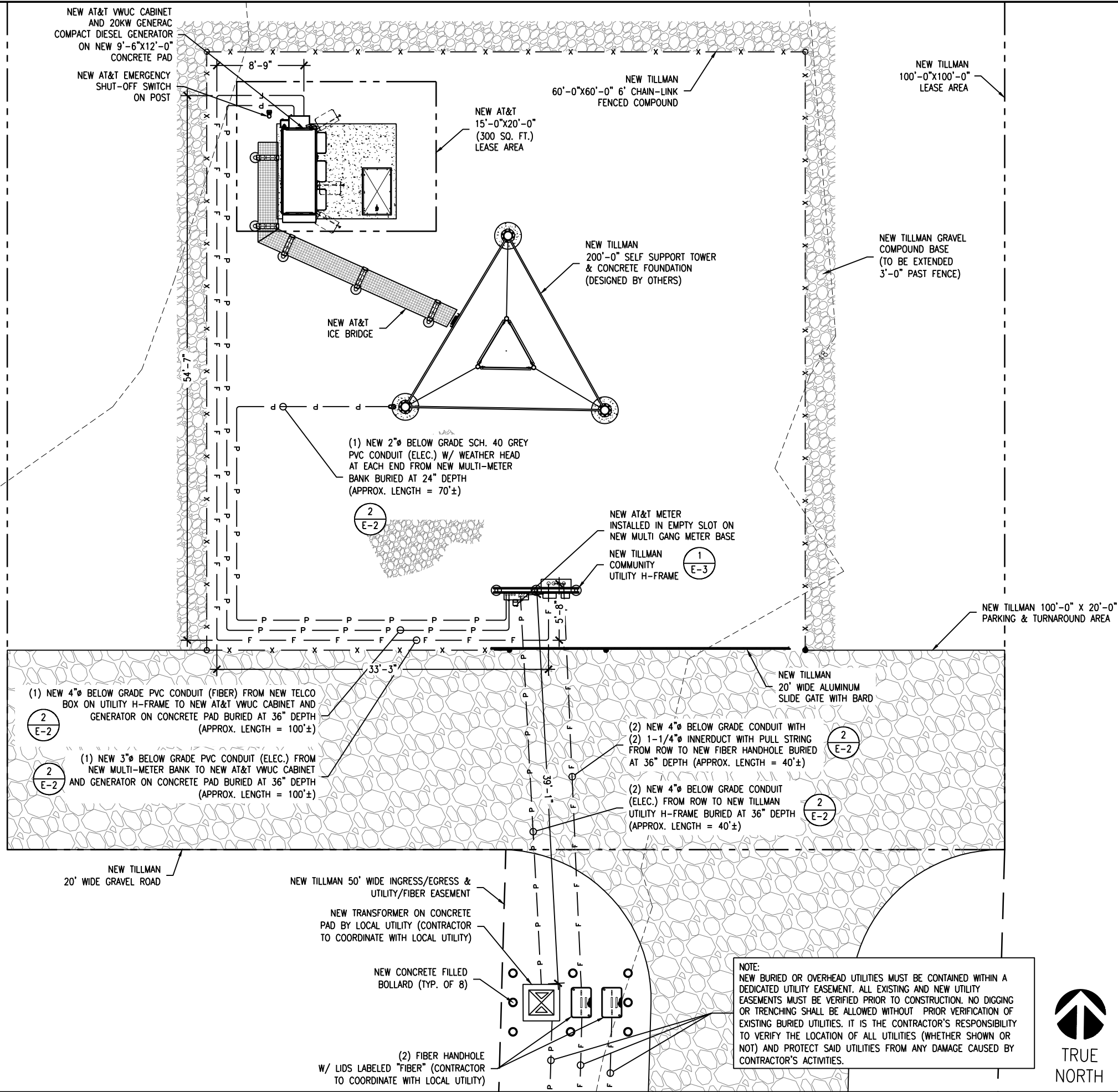
LEGEND	
NEW	PROPOSED
(E)	EXISTING
---	CENTER LINE
---	PROPERTY LINE
---	EASEMENT LINE
---	LEASE AREA
-X-	FENCE LINE
-OHT-	OVERHEAD TELCO
-OHF-	OVERHEAD FIBER
-P-	UNDERGROUND POWER CONDUIT
-T-	UNDERGROUND TELCO CONDUIT
-F-	UNDERGROUND FIBER CONDUIT
-GAS-	UNDERGROUND GAS
-OHP-	OVERHEAD POWER
-SF-	SILT FENCE
-GUY-	GUYED WIRE
-WET-	LIMITS OF WETLANDS

NOTE:
NEW BURIED OR OVERHEAD UTILITIES MUST BE CONTAINED WITHIN A DEDICATED UTILITY EASEMENT. ALL EXISTING AND NEW UTILITY EASEMENTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. NO DIGGING OR TRENCHING SHALL BE ALLOWED WITHOUT PRIOR VERIFICATION OF EXISTING BURIED UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

SITE REFERENCE NOTE:
SITE LAYOUT IS BASED ON SURVEY BY MILLMAN LAND SERVICES, INC., MSI PROJECT NO. 57298, DATED 9/15/2023. IF ANY DISCREPANCY IS NOTED BETWEEN ACTUAL SITE LAYOUT AND THIS DRAWINGS, PLEASE NOTIFY ALLPRO FOR REDESIGN.

FLOOD NOTE:
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 12027C0178C, DATED 11/6/2013. IF A PROFESSIONAL CONSULTANT HAS FINDINGS OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC. FOR A RE-DESIGN.

NOTE:
ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.



1 ENLARGED UTILITY PLAN
E-1A FOR 24" X 36" PLOT - 3/16" = 1' 0 2' 4' 8'
FOR 11" X 17" PLOT - 3/32" = 1'

TILLMAN

INFRASTRUCTURE

152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

AT&T

ALLPRO

CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

4/23/2025

CHIU ZHANG

LICENSE

No 86873

STATE OF FLORIDA

PROFESSIONAL ENGINEER

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION

AT&T NUMBER

15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER

TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS

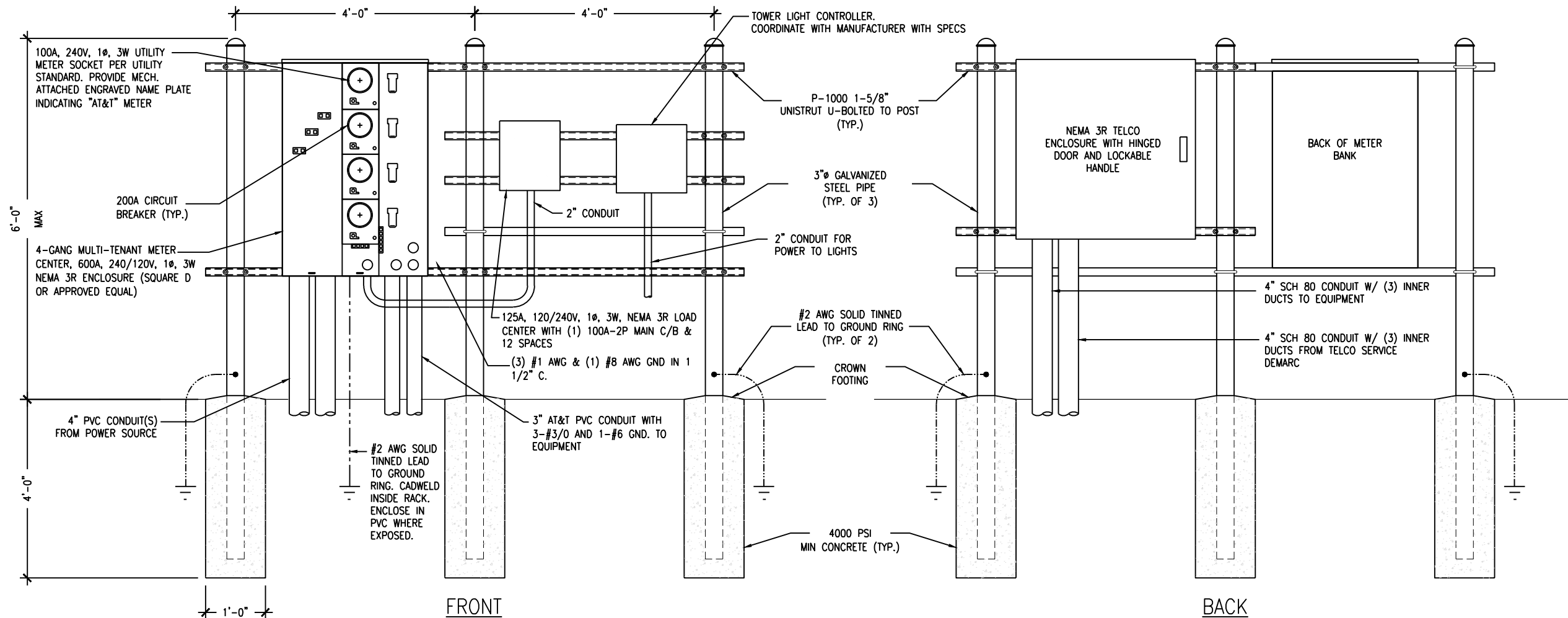
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

ENLARGED
UTILITY PLAN

SHEET NUMBER:

E-1A



NOTES:

- CONTRACTOR SHALL FIELD LOCATE THE METER PEDESTAL AS SHOWN ON SITE PLAN. INSTALL THE METER PEDESTAL NEAR THE PERIMETER OF THE FENCED COMPOUND WITH THE METERS FACING AS SHOWN.
- THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
- THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND ROD REQUIREMENTS. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
- SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
- TELCO CABINET SHALL BE 48"x48"x12" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
- ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXACT METER PANEL INSTALLED. CONTRACTOR SHALL FIELD COORDINATE ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND TO EXIST.

H-FRAME
DETAIL

1
E-3

SCALE: N.T.S.

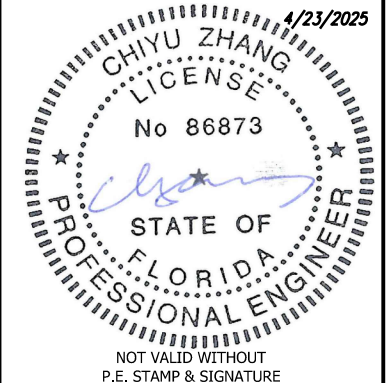
ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS				
REV	DATE	DESCRIPTION	BY	
4	04/23/25	DRC COMMENTS & REDLINES	RM	
3	03/05/25	DRC COMMENTS & REDLINES	RM	
2	10/15/24	CITY COMMENTS	RM	
1	07/25/24	REV. PER CM REDLINES	RM	
0	05/30/24	FINAL CD	RM	

STAMP



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:

**ELECTRICAL
RISER DIAGRAM**

SHEET NUMBER:

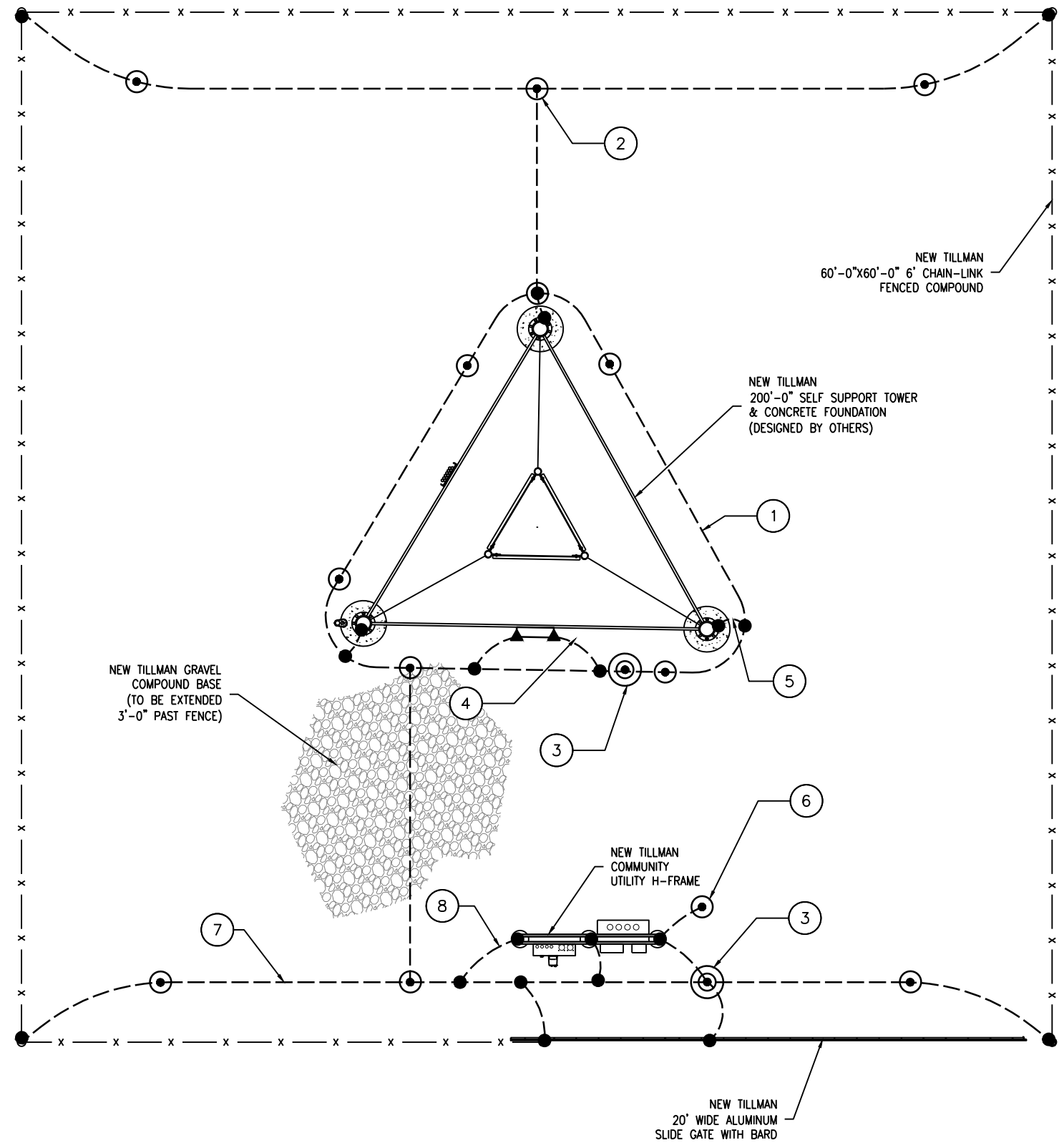
E-3

GROUNDING LEGEND

EXOTHERMIC WELD CONNECTION
COMPRESSION FITTING CONNECTION
5/8"x10' COPPER-CLAD
STEEL GROUND ROD
5/8"x10' COPPER-CLAD STEEL
GROUND ROD WITH INSPECTION WELL
NEW GROUND WIRING
TINNED COPPER GROUND BAR
1/4"x4"x12" OR 1/4"x4"x20"

NOTE:
SEE COMPOUND PLAN FOR TOWER AND COMPOUND ORIENTATION,
UTILITY H-FRAME, GATE AND TOWER LOCATION.

1. GROUND RING, #2 SOLID TINNED, BARE COPPER WIRE
2. 5/8"Ø x 10'-0" COPPER CLAD STEEL GROUND ROD SPACED
MIN. 10'-0", MAX 15'-0" APART
3. GROUND SYSTEM TEST WELL
4. #2 SOLID TINNED, BARE COPPER GROUND WIRE FROM LOWER
TOWER GROUND BAR TO NEW GROUND RING (2 REQ'D)
5. #2 SOLID TINNED, BARE COPPER GROUND WIRE FROM TOWER
BASE PLATE TO NEW GROUND RING
6. 5/8"Ø x 10'-0" COPPER CLAD GROUND ROD FOR ELECTRICAL
SERVICE GROUND
7. 3/0 AWG GREEN STRANDED INSULATED GROUND CONDUCTOR TO
GROUND ROD BONDED TO GROUND RING
8. #2 SOLID TINNED, BARE COPPER GROUND WIRE, BOND UTILITY
POST W/ VS TYPE CADWELD. (1 PER POST REQ'D)



1
G-1

COMPOUND GROUNDING PLAN

FOR 24" X 36" PLOT - 1/4" = 1' 0 1' 2' 4' 8'
FOR 11" X 17" PLOT - 1/8" = 1'



TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337
DRAWN BY: RM
CHECKED BY: CZ

REVISIONS
REV DATE DESCRIPTION BY
4 04/23/25 DRC COMMENTS & REDLINES RM
3 03/05/25 DRC COMMENTS & REDLINES RM
2 10/15/24 CITY COMMENTS RM
1 07/25/24 REV. PER CM REDLINES RM
0 05/30/24 FINAL CD RM

STAMP
4/23/2025
CHIU ZHANG
LICENSE
No 86873
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
GROUNDING
PLAN

SHEET NUMBER:
G-1

GROUNDING LEGEND

●

▲

○

○

○○○○○○○○

CGB

MGB

EXOTHERMIC WELD CONNECTION

COMPRESSION FITTING CONNECTION

5/8"x10" COPPER-CLAD STEEL GROUND ROD

5/8"x10" COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL

NEW GROUND WIRING

TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"

COLLECTOR GROUND BAR

MAIN GROUND BAR

NOTES:
1. SEE COMPOUND PLAN FOR EQUIPMENT ORIENTATION

GROUNDING NOTES:

1. GROUND RING IS TO BE CONSTRUCTED OF #2 SOLID TINNED BARE COPPER WIRE IN ONE CONTINUOUS PIECE

2. GROUND RODS WILL BE 5/8"x10"-0" COPPER CLAD, NOT LESS THAN 10' OR MORE THAN 15' APART

3. GROUND TEST WELL

4. CONNECT NEW EQUIPMENT GROUND RING TO TOWER GROUND RING (TYP. OF 2)

5. EXTERIOR GROUND BAR PROVIDED BY EQUIPMENT

6. #2 SOLID TINNED, BARE COPPER GROUND WIRE FROM GROUND BAR TO GROUND RING

7. #2 SOLID TINNED BARE COPPER GROUND WIRE FROM GENERATOR TO GROUND RING (TYP. OF 2)

8. #2 AWG GREEN STRANDED INSULATED GROUND CONDUCTOR TO GROUND ROD BONDED TO GROUND RING

MANUFACTURER

1

EQUIPMENT GROUNDING PLAN

G-2

SCALE: N.T.S.

NOTE:

1. (1) ANTENNA/RRU/ RAYCAP SHOWN FOR CLARITY. GROUNDING IS TYPICAL FOR EACH ADDITIONAL

2. ADDITIONAL CABLE GROUND KIT REQUIRED AT MIDPOINT FOR CABLE LENGTHS GREATER THAN 200 FT.

LEGEND:

●

▲

○

○

○○○○○○○○

EXOTHERMIC CONNECTION

MECHANICAL CONNECTION

GROUND KIT

#2 GREEN STRANDED INSULATED COPPER GND WIRE (SUNLIGHT RESISTANT) U.N.O.

2

TYPICAL RISER DIAGRAM

G-2

SCALE: N.T.S.

TILLMAN

INFRASTRUCTURE

152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

AT&T

ALLPRO

CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allproci.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

4/23/2025

CHIYU ZHANG

LICENSE

No 86873

STATE OF FLORIDA

PROFESSIONAL ENGINEER

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION

AT&T NUMBER

15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER

TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS

1320 SW MARTHA ST

ARCADIA, FL 34266

SHEET TITLE:

EQUIPMENT
GROUNDING PLAN
AND RISER
DIAGRAM

SHEET NUMBER:

G-2

GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45'.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE CARRIER CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A CARRIER REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

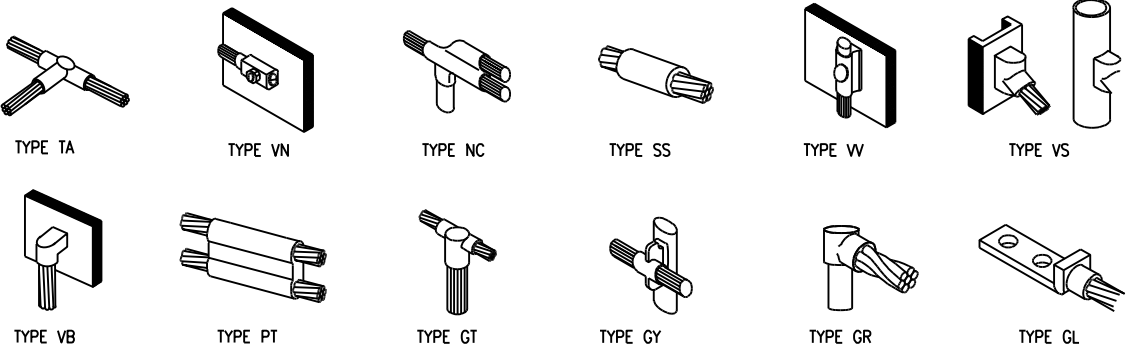
CABLE COLOR CODING NOTES:

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM CABLES SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES - RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE & VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLES BY SECTOR AND NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-00027. IN THE ABSENCE OF AN EXISTING COLOR CODING TAGGING SCHEME, OR WHEN INSTALLING NEW COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF TOWER SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

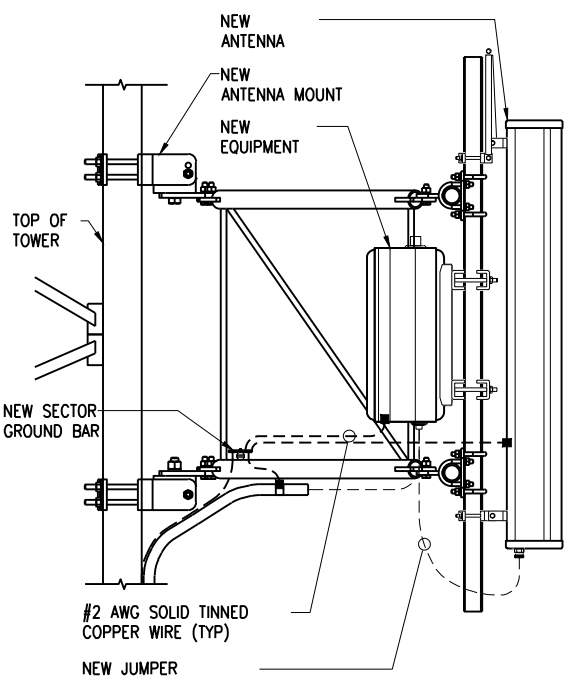
CABLE MARKING TAGS:

WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE 1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATION THE SECTOR, ANTENNA POSITION AND CABLE NUMBER. ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG" DETAIL.

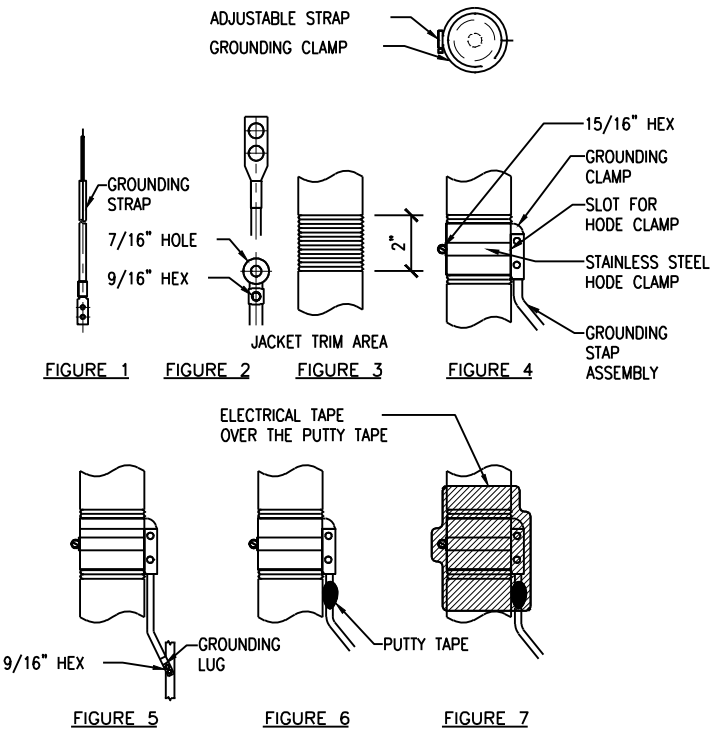
CABLE MARKING LOCATIONS TABLE	
NO.	LOCATIONS
1	EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BTS OR SHELTER.
3	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.



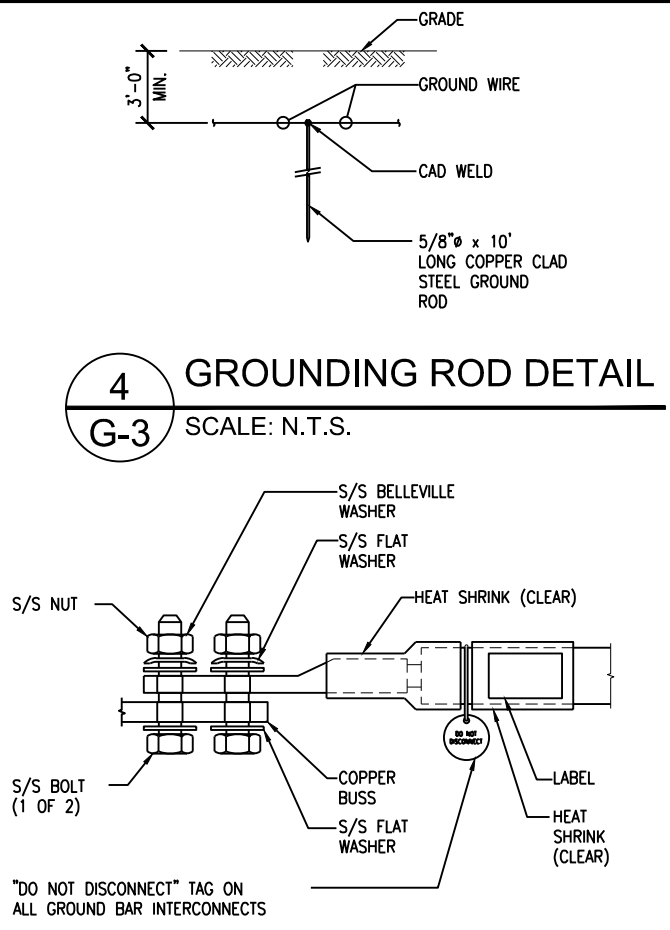
1 G-3 CADWELD GROUNDING CONNECTION DETAILS SCALE: N.T.S.



2 G-3 ANTENNA AND CABLE GROUNDING SCALE: N.T.S.

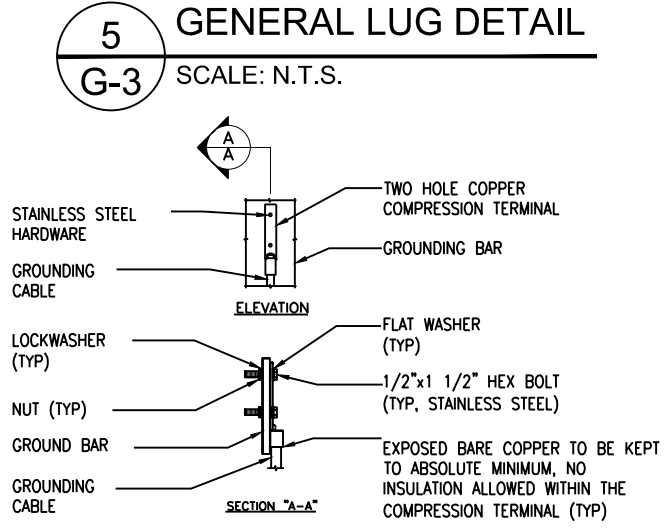


3 G-3 GROUNDING STRAP WEATHERPROOFING DETAILS SCALE: N.T.S.



NOTES:

- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
- COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.



NOTE:

- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

6 G-3 TYPICAL GROUND BAR CONNECTION DETAIL SCALE: N.T.S.

TILLMAN
INFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

ALLPRO
CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allproci.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337
DRAWN BY: RM
CHECKED BY: CZ

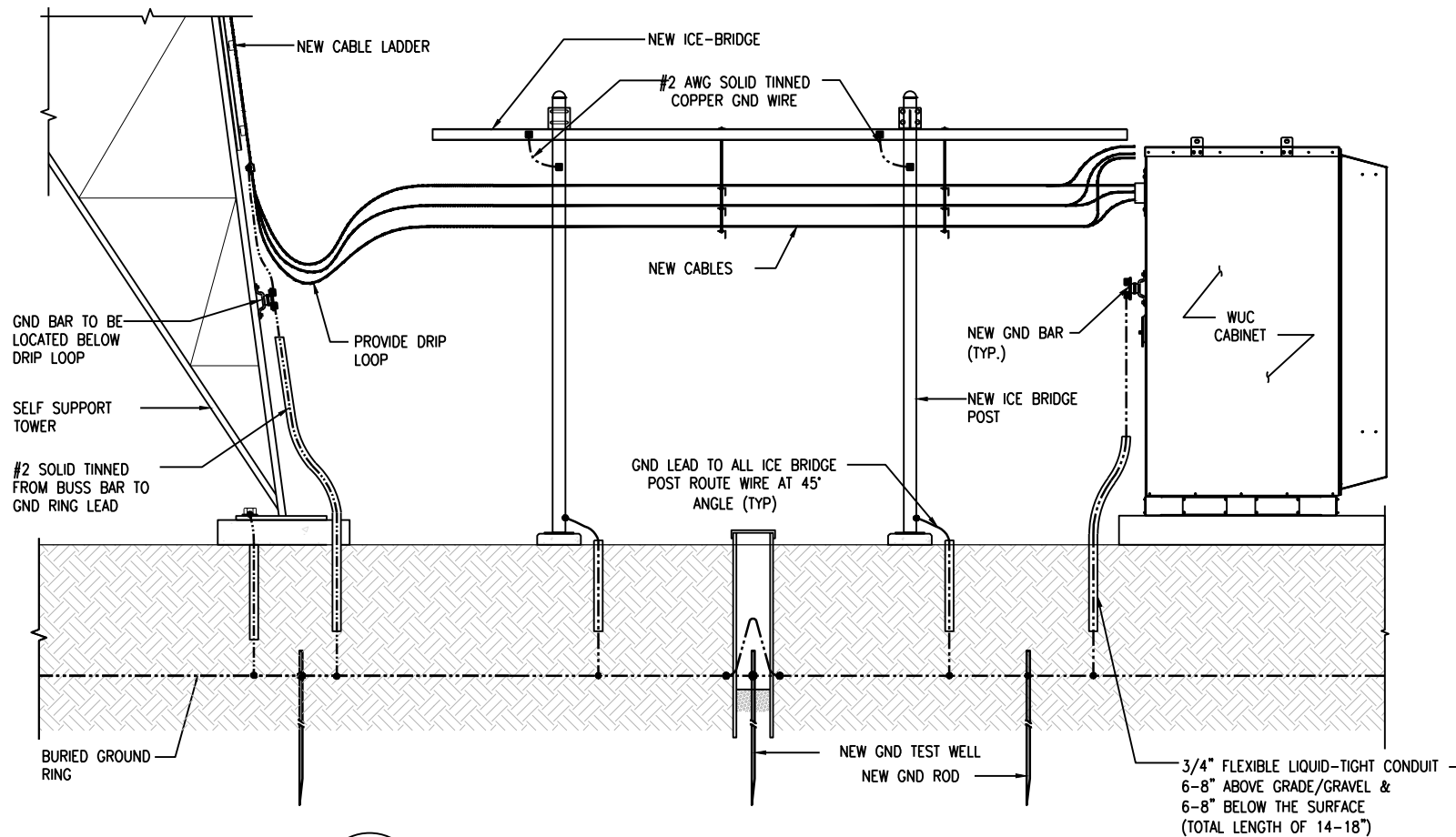
REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

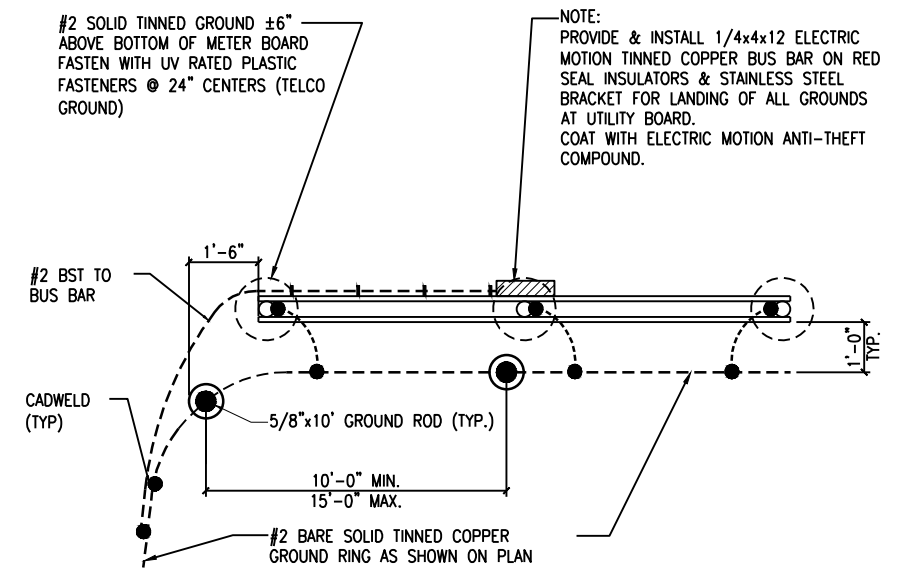
SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
**GROUNDING
DETAILS AND
NOTES**

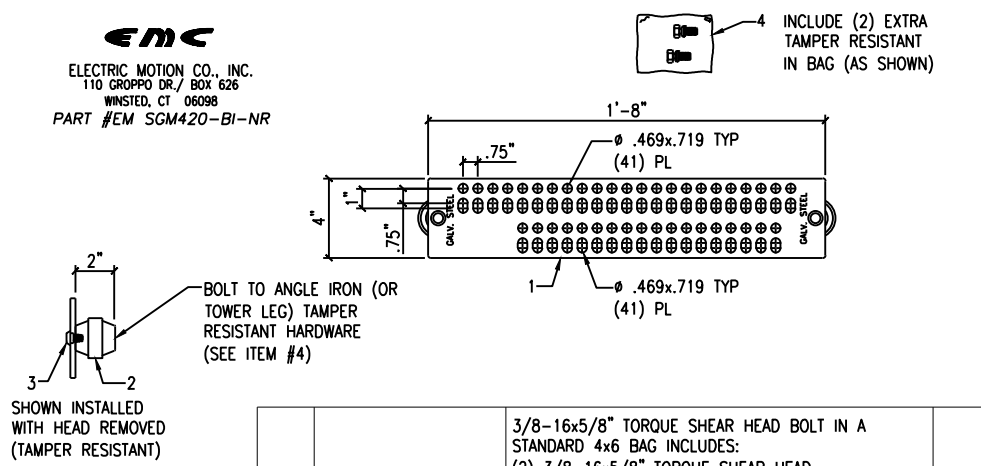
SHEET NUMBER:
G-3



1
G-4 **GROUNDING AT ICE BRIDGE**
SCALE: N.T.S.

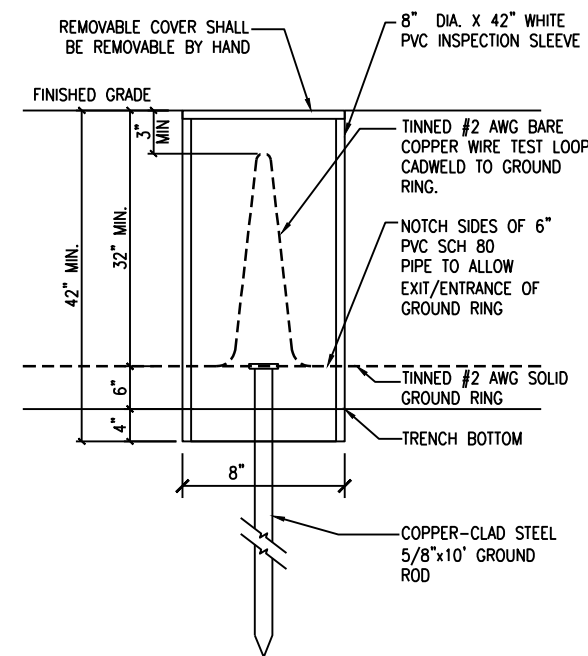


2
G-4 **UTILITY H-FRAME GROUNDING DETAIL**
SCALE: N.T.S.

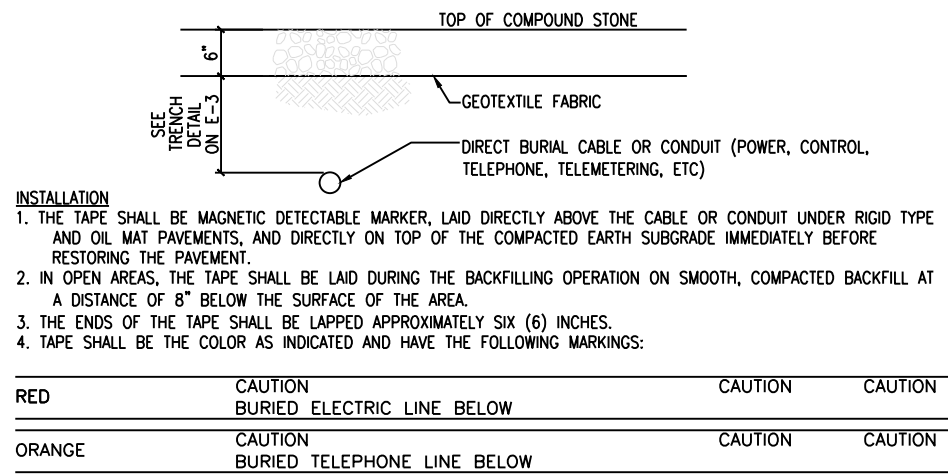


ITEM	PART NO.	DESCRIPTION	REQ
4	02-009-0663-000 (SUB ASSEMBLY)	3/8-16x5/8" TORQUE SHEAR HEAD BOLT IN A STANDARD 4x6 BAG INCLUDES: (2) 3/8-16x5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRSEAL; STAINLESS STEEL (303) P/N 02-009-0603-000 (1) STANDARD 4"x6" BAG (P/N 03-009-0209-00)	1
3	02-009-0633-000	3/8-16x5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRSEAL; STAINLESS STEEL (303)	2
2	03-009-0118-000	2"x2" INSULATOR; FIBERGLASS	2
1	02-009-0672-000	20" GROUND BAR; STEEL; GALVANIZED	1

3
G-4 **TOWER BUS BAR DETAIL**
SCALE: N.T.S.



4
G-4 **INSPECTION WELL DETAIL**
SCALE: N.T.S.

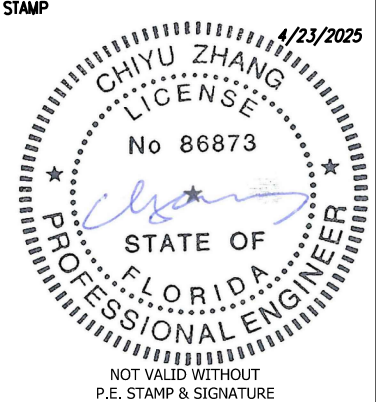


- INSTALLATION**
1. THE TAPE SHALL BE MAGNETIC DETECTABLE MARKER, LAID DIRECTLY ABOVE THE CABLE OR CONDUIT UNDER RIGID TYPE AND OIL MAT PAVEMENTS, AND DIRECTLY ON TOP OF THE COMPACTED EARTH SUBGRADE IMMEDIATELY BEFORE RESTORING THE PAVEMENT.
 2. IN OPEN AREAS, THE TAPE SHALL BE LAID DURING THE BACKFILLING OPERATION ON SMOOTH, COMPACTED BACKFILL AT A DISTANCE OF 8" BELOW THE SURFACE OF THE AREA.
 3. THE ENDS OF THE TAPE SHALL BE LAPPED APPROXIMATELY SIX (6) INCHES.
 4. TAPE SHALL BE THE COLOR AS INDICATED AND HAVE THE FOLLOWING MARKINGS:

RED	CAUTION BURIED ELECTRIC LINE BELOW	CAUTION	CAUTION
ORANGE	CAUTION BURIED TELEPHONE LINE BELOW	CAUTION	CAUTION

5
G-4 **STANDARD MARKER TAPE DETAIL**
SCALE: N.T.S.

ACGI NO:	23-2337		
DRAWN BY:	RM		
CHECKED BY:	CZ		
REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

**GROUNDING
DETAILS**

SHEET NUMBER:

G-4

- 7.5.3. METALLIC OBJECTS MOUNTED ON THE BUILDING EXTERIOR:
- 7.5.3.1. GROUND BARS AT THE CABLE ENTRY PORT.
- 7.5.3.2. DOWN SPOUTS OR METAL DRAINS.
- 7.5.3.3. ALUMINUM (OR SIMILAR) EXTERIOR WALL SIDING.
- 7.5.3.4. CONDUITS, PIPES, (MULTIPLE GROUNDS REQUIRED EVERY 25 FEET WHEN RUN IS PARALLEL TO EARTH OR EXTERIOR WALLS).
- 7.5.3.5. AIR EXHAUST HOODS AND PORCH ROOF.
- 7.5.3.6. OUTER SHEATH OF COAXIAL ANTENNA CABLES
- 7.5.3.7. METALLIC DOORS AND FRAMES
- 7.5.3.8. MAIN DISCONNECT SWITCH
- 7.5.3.9. AIR CONDITIONING UNITS AND ASSOCIATED DISCONNECT SWITCH.
- 7.5.3.10. GENERATOR RECEPTACLE.
- 7.5.3.11. OTHER METAL OF SIMILAR NATURE.
- 7.5.3.12. SERVICE PLUGS.

NOTE: THESE CONNECTIONS TO THE EXTERNAL GROUND RING ARE NOT IN LIEU OF THE NEC GREEN WIRE EQUIPMENT GROUND TO THE A/C PANELBOARD.

- 7.6. COAX CABLE GROUNDING
- 7.6.1. THE OUTER CONDUCTOR OF ALL ANTENNA COAX CABLES SHALL BE GROUNDED AS FOLLOWS:
- 7.6.1.1. AT THE TOP OF THE VERTICAL RUN ON THE TOWER, EACH ANTENNA CABLE SHEATH SHALL BE INDIVIDUALLY GROUNDED TO A GROUND BAR WITH A TWO HOLE CONNECTOR AND STAINLESS STEEL FASTENERS. THE CONNECTION SHALL BE COATED WITH A PROTECTIVE, ANTIOXIDANT MATERIAL. THE GROUND BAR SHALL BE ATTACHED TO THE TOWER UTILIZING STAINLESS STEEL MOUNTING HARDWARE.
- 7.6.1.2. AT THE MIDDLE GROUND BAR (ON TOWERS OVER 200 FEET TALL) FOR SELF-SUPPORTING AND GUYED TOWERS, THE GROUNDING OF ANTENNA CABLES IS ACCOMPLISHED BY THE USE OF APPROPRIATE GROUNDING STRAP KITS SUPPLIED BY THE ANTENNA CABLE MANUFACTURER. THE INSTRUCTIONS SUPPLIED WITH THESE KITS MUST BE FOLLOWED FOR APPLICATION. THE GROUND BAR SHALL BE ATTACHED TO THE TOWER UTILIZING STAINLESS STEEL MOUNTING HARDWARE.
- 7.6.1.3. AT THE BOTTOM OF VERTICAL RUN ON THE TOWER, AT THE POINT OF TOWER EXIT, EACH ANTENNA CABLE SHEATH SHALL BE INDIVIDUALLY GROUNDED TO A TOWER EXIT GROUND BAR WITH A TWO HOLE CONNECTOR. THE CONNECTION SHALL BE COATED WITH A PROTECTIVE, ANTIOXIDANT MATERIAL. THE GROUND BAR SHALL BE ATTACHED TO THE TOWER UTILIZING STAINLESS STEEL MOUNTING HARDWARE. THE BOTTOM GROUND BAR SHALL BE DIRECTLY BONDED AT ITS LOWEST POINT TO THE EXTERIOR GROUND RING AT A GROUND ROD BY EXOTHERMIC WELD.
- 7.6.1.4. WHERE EQUIPMENT SHELTERS ARE REQUIRED: AT THE POINT OF ENTRANCE TO THE SHELTER, THIS SHALL BE A TWO HOLE CONNECTOR ATTACH TO THE GROUND BAR BELOW, OR TO THE SIDE OF THE CABLE ENTRY PORT. THIS CONNECT ION SHALL BE COATED WITH PROTECTIVE, ANTIOXIDANT MATERIAL. THE GROUND BAR SHALL BE ISOLATED FROM THE SHELTER WALL. THE GROUND BAR SHALL BE COATED SHALL BE DIRECTLY GROUNDED AT ITS LOWEST POINT TO THE EXTERIOR GROUND RING. THE PRIMARY GROUND WIRE SHALL BE #2 AWG BARE TINNED COPPER SOLID WIRE EXTENDED FROM A PARALLEL TYPE EXOTHERMIC WELD CONNECTION AT THE EXTERIOR GROUND RING TO AN EXOTHERMIC WELD AT THE CABLE ENTRY PORT GROUND BAR. THE PRIMARY GROUND WIRE SHALL BE SUPPORTED ON THE EXTERIOR WALL WITH NON-DEGRADING FASTENER EVERY 2 FEET. UNNECESSARY BENDS SHALL BE OF GREATEST PRACTICAL RADIUS (8' MINIMUM),

ABBREVIATIONS	
2C	2ND CARRIER
3C	3RD CARRIER
4C	4TH CARRIER
AFF	ABOVE FINISHED FLOOR
AGL	ABOVE GROUND LEVEL
AMSL	ABOVE MEAN SEA LEVEL
APPROX	APPROXIMATE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BBU	BASE BAND UNIT
℄	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CND	CONDUIT
CSRF	CROSS SECTOR REDUNDANCY FEATURE
DWG	DRAWING
FT	FOOT(FEET)
EGB	EQUIPMENT GROUND BAR
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ELEV	ELEVATION
EQUIP	EQUIPMENT
(E)	EXISTING
EXT	EXTERIOR
FND	FOUNDATION
F	FIBER
FIF	FACILITY INTERFACE FRAME
GA	GAUGE
GALV	GALVANIZED
GPS	GLOBAL POSITIONING SYSTEM
GND	GROUND
GSM	GLOBAL SYSTEM FOR MOBILE COMMUNICATION
	LONG TERM EVOLUTION
LTE	MAXIMUM
MAX	MULTI-CARRIER POWER AMPLIFIER
MCPA	MANUFACTURER
MFR	MASTER GROUND BAR
MGB	MINIMUM
MIN	MANUAL TRANSFER SWITCH
MTS	NOT TO SCALE
N.T.S.	ON CENTER
O.C.	OVERHEAD ELECTRIC/TELCO
OE/OT	POWER PROTECTION CABINET
PPC	PROPERTY LINE
℄	RADIO BASED STATION
RBS	REMOTE RADIO HEAD
RRH	RIGID GALVANIZED STEEL
RCS	INCH(ES)
IN	INTERIOR
INT	POUND(S)
LB(S), #	SQUARE FOOT
SF	STEEL
STL	TYPICAL
TYP	UNDERGROUND ELECTRIC/TELCO
UE/UT	UNLESS NOTED OTHERWISE
UNO	UNIVERSAL MOBILE TELE- COMMUNICATION
UMTS	SYSTEM
	VERIFY IN FIELD
VIF	WITH
W/	TRANSFORMER
XFMR	

SITE SPECIFICATIONS REFER TO BOTH RAW LAND AND CO-LOCATION SITES. REFERENCE SITE PLANS FOR TYPE OF SITE AND USE APPLICABLE SPECIFICATIONS.

*NOTE: PM REFERS TO TILLMAN PROJECT MANAGER

TILLMAN

INFRASTRUCTURE

152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019

9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ

REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

4/23/2025

CHIU ZHANG

LICENSE

No 86873

STATE OF FLORIDA

PROFESSIONAL ENGINEER

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

SITE INFORMATION

AT&T NUMBER

15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER

TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS

1320 SW MARTHA ST

ARCADIA, FL 34266

SHEET TITLE:

GENERAL NOTES

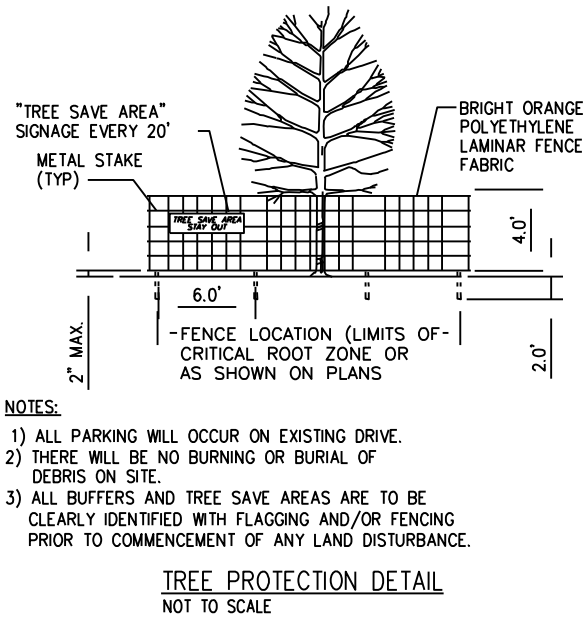
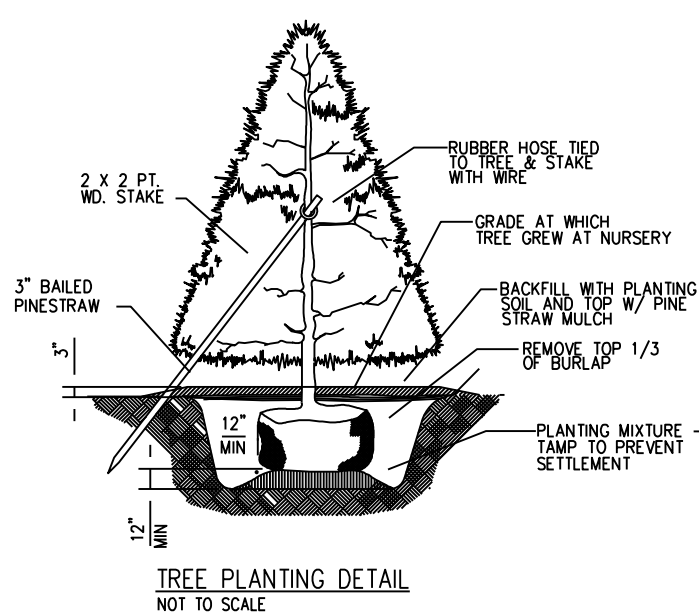
SHEET NUMBER:

GN-4

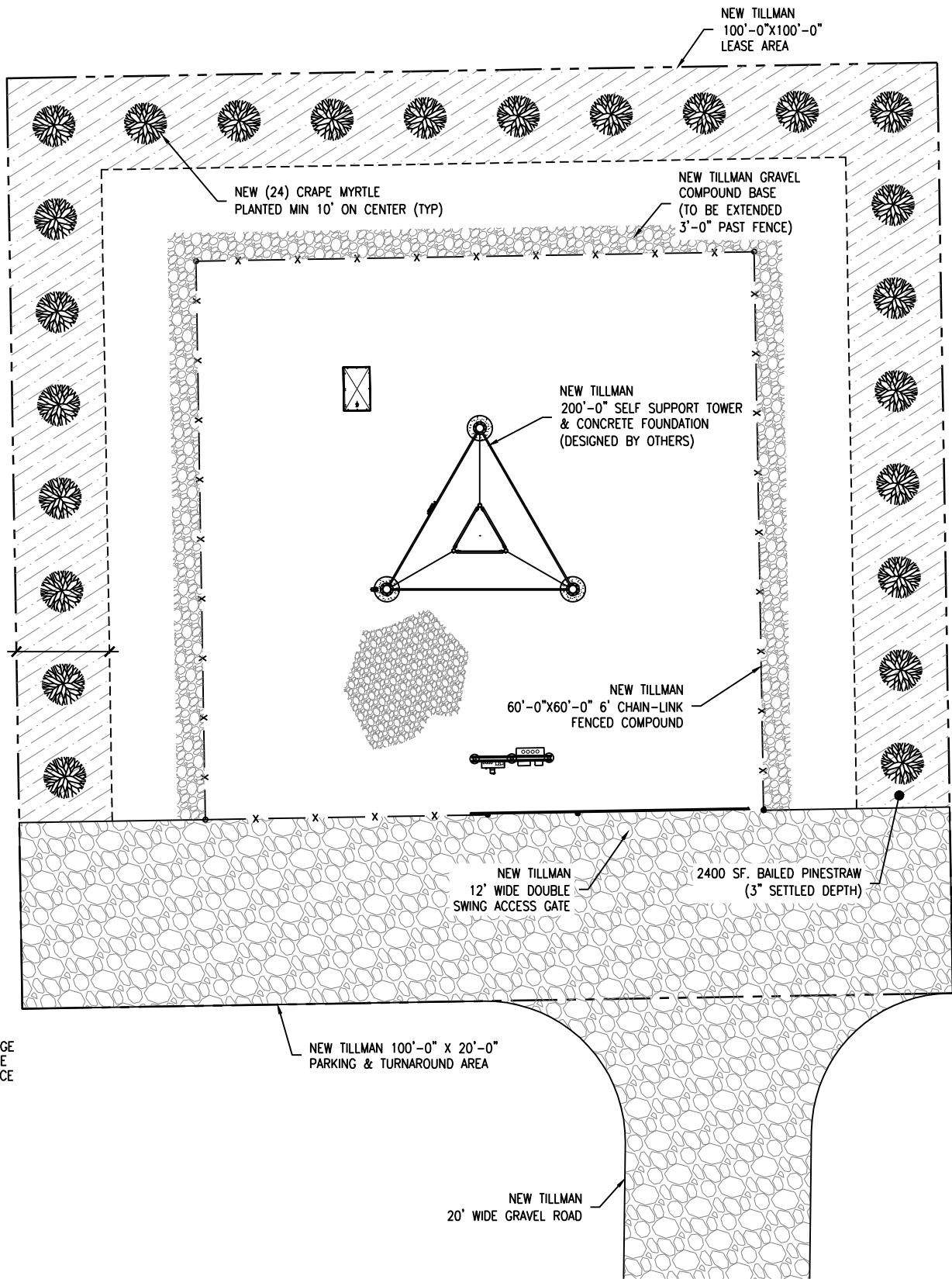
LANDSCAPE NOTES

- 1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- 2. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS SPECIFIED.
- 3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- 4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER'S REPRESENTATIVE BEFORE, DURING, AND AFTER INSTALLATION.
- 5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN.
- 6. ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- 7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZATION, ETC.) OF PLANTING AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE ENGINEER'S REPRESENTATIVE.
- 9. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- 10. THE ENGINEER'S REPRESENTATIVE WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
- 11. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- 12. ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
- 13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK", LATEST EDITION, REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

TOTAL AREA OF LANDSCAPE BUFFER: 856 SF - 0.0197 ACRES			
PLANT LIST:			
QTY.	COMMON NAME	BOTANICAL NAME	SIZE/REMARKS
24	CAPE MYRTLE	LAGERSTOEMIA INDICA	6' MIN. HEIGHT AT PLANTING PLANTED MIN 10'-0" O.C.
2400 SF	PINESTRAW MULCH - 3" SETTLED LAYER OF CLEAN STRAW		



NEW 10'-0"
LANDSCAPE BUFFER



1

L-1

LANDSCAPE PLAN

FOR 24" X 36" PLOT - 1/8" = 1' 0' 2' 4' 8' 16'

FOR 11" X 17" PLOT - 1/16" = 1'



TILLMAN

INFRASTRUCTURE

152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019



9221 LYNDON B JOHNSON FREEWAY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO:	23-2337		
DRAWN BY:	RM		
CHECKED BY:	CZ		
REVISIONS			
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

CHIU ZHANG

LICENSE

No 86873

STATE OF FLORIDA

PROFESSIONAL ENGINEER

NOT VALID WITHOUT
P.E. STAMP & SIGNATURE

4/23/2025

SITE INFORMATION
AT&T NUMBER
15828317
AT&T SITE NAME
HOG BAY AVE & HWY 70
TILLMAN SITE NUMBER
TI-OPP-29300
TILLMAN SITE NAME
BERNARDO HERNANDEZ-VILLANUEVA
ARCADIA FL TI-05363
SITE ADDRESS
1320 SW MARTHA ST
ARCADIA, FL 34266

SHEET TITLE:
LANDSCAPE
PLAN

SHEET NUMBER:
L-1