

SITE SUMMARY	
SITE TYPE:	NEW SITE DESIGN
TOWER TYPE:	MONOPOLE
TOWER HEIGHT:	145'-0"
APPURTENANCE HEIGHT:	155'-0"
TOWER ELEVATION (AMSL):	133.4±
WIND LOAD:	140 MPH, RISK CATEGORY II
TYPE OF OCCUPANCY:	TELECOMMUNICATIONS
TOWER LATITUDE:	27° 59' 53.17" N (27.998103°)
TOWER LONGITUDE:	81° 47' 04.41" W (-81.784558°)
ZONING JURISDICTION:	POLK COUNTY
COUNTY:	POLK
APN #:	252835000000023020
ZONING:	UNPLATTED
PARCEL SIZE:	337,733 SQ FT
LEASE AREA SIZE:	6,400± SF 0.0147± ACRES
POWER COMPANY:	TAMPA ELECTRIC
TELEPHONE COMPANY:	FRONTIER

PROJECT DIRECTORY	
LAND OWNER:	EDWARD BOLICK 3024 SPIRIT LAKE DRIVE WINTER HAVEN, FL 33880 CONTACT: EDWARD BOLICK PHONE: (863) 514-7047
CO-APPLICANT/CARRIER:	T-MOBILE 5901 BENJAMIN CENTER DR, SUITE 110 A-B TAMPA, FL 33634 CONTACT: BETH FASSLER PHONE: (740) 310-4983
APPLICANT/TOWER OWNER:	VB BTS II, LLC 750 PARK OF COMMERCE DR, SUITE 200 BOCA RATON, FLORIDA 33487 CONTACT: TERYLE WIEGEL PHONE: (425) 761-4323
SITE DESIGN/ENGINEER:	FDH INFRASTRUCTURE SERVICES 6521 MERIDIEN DRIVE RALEIGH, NC 27616 CONTACT: JAMES R. BILLUPS, PE, CFM PHONE: (919) 755-1012
SURVEYOR:	SMW ENGINEERING GROUP, INC 12979 N TELECOM PARKWAY TAMPA, FL 33637 CONTACT: JOHNNY L. FLASKAMP PHONE: (813) 615-1422

CONSTRUCTION DRAWINGS

VB BTS II, LLC

VB BTS, LLC

SITE ID/NAME:

US-FL-7140 / HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

SITE ADDRESS:

SPIRIT LAKE ROAD

WINTER HAVEN, FL 33880

(UNVERIFIED)



SCOPE OF WORK
VB BTS, LLC. PROPOSES TO INSTALL AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF A 145'-0" MONOPOLE TOWER WITH 10' LIGHTNING ROD. THE TOWER WILL BE PLACED INSIDE A 60'-0"x80'-0" FENCED COMPOUND, INSIDE 80'-0"x80'-0" LEASE/ EASEMENT AREA. T-MOBILE PROPOSES TO INSTALL AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF MOUNTING ANTENNAS AND ANCILLARY EQUIPMENT ON THE PROPOSED 145'-0" MONOPOLE TOWER. THE RELATED EQUIPMENT CABINETS AND ACCESSORIES WILL BE PLACED ON A PROPOSED EQUIPMENT PLATFORM ADJACENT TO THE TOWER INSIDE THE 80'-0"x80'-0" LEASE/EASEMENT AREA.

NOTE: ANY CHANGES TO THE APPROVED PLANS MUST BE APPROVED BY THE PROPERTY OWNER.

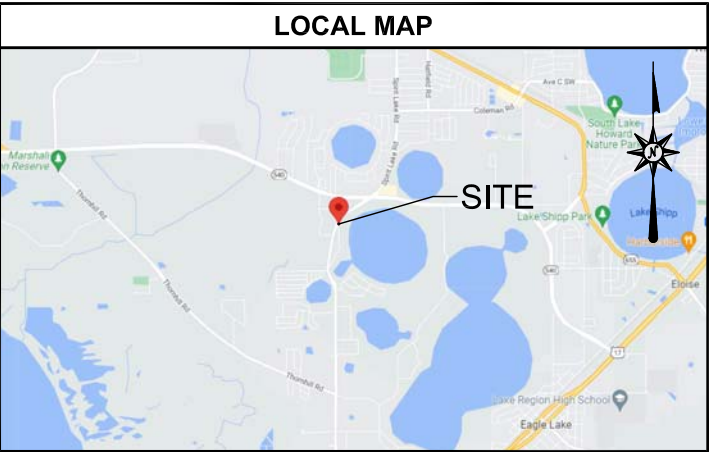
DIRECTIONS
FROM ORLANDO INTERNATIONAL AIRPORT, ORLANDO, FL: GET ON FL-528 W/FL-528 TOLL W. HEAD NORTH ON ACCESS RD/JEFF FUQUA BLVD. CONTINUE TO FOLLOW JEFF FUQUA BLVD. USE THE RIGHT LANE TO TAKE THE RAMP ONTO FL-528 W/FL-528 TOLL W. FOLLOW FL-528 W/FL-528 TOLL W, I-4 W AND FL-570 W/POLK PKWY TO FL-540 E IN POLK COUNTY. TAKE EXIT 14 FROM FL-570 W/POLK PKWY. MERGE ONTO FL-528 W/FL-528 TOLL W. USE THE LEFT 2 LANES TO MERGE ONTO I-4 W TOWARD TAMPA. TAKE EXIT 41 FOR FL-570 W TOWARD AUBURNDALE/LAKELAND/POLK PKWY. CONTINUE ONTO FL-570 W/POLK PKWY. TAKE EXIT 14 TO MERGE ONTO FL-540 E. FOLLOW FL-540 E TO SPIRIT LAKE DR. MERGE ONTO FL-540 E. SHARP RIGHT ONTO SPIRIT LAKE RD. TURN LEFT ONTO SPIRIT LAKE DR. DESTINATION WILL BE ON THE RIGHT.

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: <div><div><div>1. FLORIDA BUILDING CODE 2020</div><div>2. ANSI/TIA-222-H</div><div>3. NATIONAL ELECTRIC CODE 2017</div></div><div><div>4. LOCAL BUILDING CODE</div><div>5. CITY/COUNTY ORDINANCES</div><div>6. 2020 FLORIDA FIRE PREVENTION CODE</div><div>7. ASCE 7-16 RISK CATEGORY II WIND SPEED</div></div></div>

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

	UNDERGROUND SERVICE ALERT UTILITIES PROTECTION CENTER, INC. 811 48 HOURS BEFORE YOU DIG	
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LEGAL DESCRIPTION
REFER TO TOPOGRAPHICAL SURVEY AND SITE PLAN FOR LEGAL DESCRIPTION OF PARENT PARCEL AND LEASE AREA.



SHEET INDEX			
SHEET NO.	DESCRIPTION	REV. NO.	DATE
T-1	TITLE SHEET	0	03/17/2023
SU-1	SURVEY SHEET	-	11/03/2022
SU-2	SURVEY SHEET	-	11/03/2022
SU-3	SURVEY SHEET	-	11/03/2022
SU-4	SURVEY SHEET	-	11/03/2022
SU-5	SURVEY SHEET	-	11/03/2022
GN-1	GENERAL NOTES	0	03/17/2023
GN-2	GENERAL NOTES	0	03/17/2023
GN-3	GENERAL NOTES	0	03/17/2023
GN-4	GENERAL NOTES	0	03/17/2023
GN-5	SIGN DETAILS	0	03/17/2023
Z-1	ZONING & LAND USE	0	03/17/2023
Z-2	ZONING & LAND USE	0	03/17/2023
C-1	SITE PLAN	0	03/17/2023
C-1.1	AERIAL SITE PLAN	0	03/17/2023
C-1.2	SOIL SITE PLAN	0	03/17/2023
C-2	COMPOUND DETAILS	0	03/17/2023
C-2.1	T-MOBILE EQUIPMENT LAYOUT	0	03/17/2023
C-3	GRADING & EROSION CONTROL PLAN	0	03/17/2023
C-3.1	GRADING DETAILS	0	03/17/2023
C-4	FENCE DETAILS	0	03/17/2023
C-4.1	CATTLE GATE DETAILS	0	03/17/2023
C-5	PIER, GPS, & GROUND CONSTRUCTION DETAILS	0	03/17/2023
C-5.1	T-MOBILE CABINET DETAILS	0	03/17/2023
C-6	T-MOBILE ANTENNA LAYOUT & DETAILS	0	03/17/2023
C-6.1	T-MOBILE ANTENNA LAYOUT & DETAILS	0	03/17/2023
C-6.2	T-MOBILE SYSTEM CONNECTION DIAGRAM	0	03/17/2023
E-1	COMPOUND ELECTRICAL PLAN	0	03/17/2023
E-1.1	T-MOBILE EQUIPMENT ELECTRICAL PLAN	0	03/17/2023
E-2	METER & TELCO RACK	0	03/17/2023
E-2.1	T-MOBILE EQUIPMENT RACK DETAIL	0	03/17/2023
E-2.2	T-MOBILE EQUIPMENT RACK DETAIL	0	03/17/2023
E-3	ELECTRICAL DETAILS	0	03/17/2023
E-4	SINGLE LINE DIAGRAM	0	03/17/2023
G-1	COMPOUND GROUNDING PLAN	0	03/17/2023
G-1.1	T-MOBILE GROUNDING PLAN	0	03/17/2023
G-2	GROUNDING DETAILS	0	03/17/2023
G-3	GROUNDING DETAILS	0	03/17/2023
G-4	GROUNDING NOTES	0	03/17/2023
SN-1	PLATFORM STRUCTURAL NOTES 1	0	03/17/2023
SN-2	PLATFORM STRUCTURAL NOTES 2	0	03/17/2023
S-1	PLATFORM FOUNDATION DETAILS	0	03/17/2023
S-2	PLATFORM FRAMING PLAN	0	03/17/2023
S-3	PLATFORM PROFILES	0	03/17/2023
S-4	PLATFORM CONNECTION DETAILS I	0	03/17/2023
S-5	PLATFORM CONNECTION DETAILS II	0	03/17/2023
S-6	PLATFORM CONNECTION DETAILS III	0	03/17/2023
S-7	PLATFORM CONNECTION DETAILS IV	0	03/17/2023
L-1	LANDSCAPE SITE PLAN	0	03/17/2023

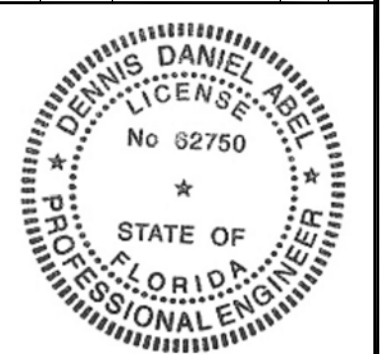
VB
BTS II, LLC
750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

T-Mobile
5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634

FDH INFRASTRUCTURE SERVICES
ENGINEERING INNOVATION
FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIEN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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SUBMITTALS				
REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

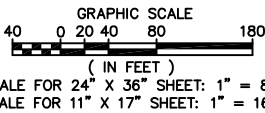
SITE ID:
US-FL-7140
SITE NAME:
HUNGRY HOWIE
T-MOBILE SITE ID:
A2B2227A
PARCEL:
252835000000023020
ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

BOUNDARY AND TOPOGRAPHIC SURVEY

SECTION 35, TOWNSHIP 28 SOUTH, RANGE 25 EAST
POLK COUNTY, FLORIDA
FOR: VB BTS, LLC



SURVEYOR'S NOTES

- BEARINGS HEREON ARE REFERENCED TO THE ASSUMED BEARING OF NORTH 37°06'00" EAST ALONG THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF LAKE SPIRIT DRIVE (A 50 FOOT WIDE PUBLIC RIGHT-OF-WAY).
- UNDERGROUND UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED, ABOVEGROUND INDICATIONS SET BY OTHERS. NO SUB-SURFACE INVESTIGATION WAS PERFORMED BY THIS OFFICE.
- THE BOUNDARY AND TOPOGRAPHIC SURVEY SHOWN HEREON IS BASED ON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS DATED JUNE 6, 2022.
- REPRODUCTIONS OF THIS SKETCH ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND THE RAISED SEAL OF A FLORIDA LICENSED SURVEYOR.
- THE PURPOSE OF THIS SURVEY IS TO ESTABLISH AND DESCRIBE A TOWER LEASE PARCEL AND ASSOCIATED 30 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT. THIS IS NOT A BOUNDARY SURVEY OF THE PARENT PARCEL.
- LATITUDE, LONGITUDE AND ELEVATIONS DEPICTED HEREON ARE BASED UPON GPS OBSERVATIONS MADE WITH AN EGPS REAL TIME KINEMATIC GPS SYSTEM INCORPORATING A CHAMPION TKO GPS RECEIVER.
- ELEVATIONS DEPICTED HEREON ARE REFERENCED TO THE NAVD'88 DATUM.
- SYMBOLS SHOWN HEREON ARE NOT TO SCALE.
- THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE. THIS OFFICE HAS NOT PERFORMED A SEARCH OF THE PUBLIC RECORDS FOR EXISTING EASEMENTS, RIGHTS-OF-WAY, ABANDONMENTS, ZONING, SETBACKS OR DEED RESTRICTIONS.
- THE SUBJECT 30 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT CONNECTS THE SUBJECT TOWER LEASE PARCEL TO SPIRIT LAKE DRIVE (A 50 FOOT WIDE PUBLIC RIGHT-OF-WAY).
- THE TOWER LEASE PARCEL, 30 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT ARE LOCATED WHOLLY WITHIN THE PARENT PARCEL.
- THE SURVEYOR HAS REVIEWED THE COMMITMENT FOR TITLE INSURANCE ISSUED BY TOWER AGENCY, LLC, COMMITMENT NO. VTB-129746-C, WITH AN EFFECTIVE DATE OF 3/16/2022. ALL PLOTTABLE MATTERS OF RECORD TITLE, EXCEPT LIENS AND/OR LEASES, IDENTIFIED IN THAT COMMITMENT FOR TITLE INSURANCE THAT ARE PERTINENT TO THE TOWER LEASE PARCEL, AND ITS 30 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT, HAVE BEEN SHOWN OR NOTED ON THE SURVEY. THE SURVEYOR HAS RELIED UPON THE COMMITMENT FOR TITLE INSURANCE AND A VISUAL INSPECTION OF THE PROPERTY WITH RESPECT TO EASEMENTS, RIGHTS-OF-WAY, SETBACK LINES, AGREEMENTS, RESERVATIONS, AND OTHER SIMILAR MATTERS.
- BASED UPON THE SUBJECT COMMITMENT FOR TITLE INSURANCE, THE SOUTHEASTERLY LINE OF SPIRIT LAKE ROAD (A 80 FOOT WIDE PUBLIC RIGHT-OF-WAY) IS CONTIGUOUS WITH THE NORTHWESTERLY BOUNDARY OF THE PARENT PARCEL AND THE NORTHWESTERLY LINE OF SPIRIT LAKE DRIVE (A 50 FOOT WIDE PUBLIC RIGHT-OF-WAY) DESCRIBED IN THIS SURVEY. NO EASEMENTS OR OTHER RIGHTS OF THIRD PARTIES DISCLOSED BY THAT COMMITMENT FOR TITLE INSURANCE WOULD PRECLUDE ACCESS OVER THE PARENT PARCEL FROM THE TOWER LEASE PARCEL TO THAT PUBLIC RIGHT-OF-WAY.
- AT THE TIME OF THIS SURVEY, THERE WERE NO APPARENT ENCROACHMENTS OF IMPROVEMENTS LOCATED ON ADJOINING PARCELS ONTO THE SUBJECT TOWER LEASE PARCEL, AND ITS 30 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT, OR IMPROVEMENTS LOCATED ON THE SUBJECT TOWER LEASE PARCEL, AND ITS 30 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT ONTO ADJOINING PARCELS.
- PARENT PARCEL ADDRESS:
3024 SPIRIT LAKE DRIVE, WINTER HAVEN, FL 33880

FLOOD NOTE

ACCORDING TO MY INTERPRETATION OF COMMUNITY PANEL NUMBER 120261 0510 G AND PANEL NUMBER 120261 0345 G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) FOR POLK COUNTY, FLORIDA, DATED 12/22/2016, THE SUBJECT AREA IS IN FLOOD ZONE "X", "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AND FLOOD ZONE "AE", "SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD; BASE FLOOD ELEVATIONS DETERMINED".

NOTE: THE BASE FLOOD ELEVATION DEPICTED ON THE COMMUNITY PANELS, FOR THE LOCATION OF THE SUBJECT PROPERTY, IS 134.3 FEET NAVD'88.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY TO: VERTICAL BRIDGE REIT, LLC, A DELAWARE LIMITED LIABILITY COMPANY, ITS SUBSIDIARIES, AND THEIR RESPECTIVE SUCCESSORS AND/OR ASSIGNS; AND (II) TORONTO DOMINION (TEXAS) LLC, AS ADMINISTRATIVE AGENT, FOR ITSELF AND ON BEHALF OF THE LENDERS PARTIES FROM TIME TO TIME TO THAT CERTAIN SECOND AMENDED AND RESTATED LOAN AGREEMENT DATED JUNE 17, 2016 WITH VERTICAL BRIDGE HOLDCO, LLC, AS BORROWER, AND VERTICAL BRIDGE HOLDCO PARENT, LLC, AS PARENT, AS MAY BE AMENDED, RESTATED, MODIFIED OR RENEWED, THEIR SUCCESSORS AND ASSIGNS AS THEIR INTERESTS MAY APPEAR; AND TOWER AGENCY, LLC



GEOLINE SURVEYING, INC. LB#7082

DAVID G. SHORT, P.S.M.
FLORIDA PROFESSIONAL SURVEYOR AND MAPPER
CERTIFICATE OF REGISTRATION NO. 5022

DESIGNED FLOYD CURTIS		SCALE AS SHOWN	
DRAWN FLOYD CURTIS		DATE JUNE 6, 2022	
CHECKED DAVE SHORT		PROJECT # 333-157	
SITE NUMBER US-FL-7140			
HUNGRY HOWIE SITE, POLK COUNTY, FLORIDA			
DRAWING# 333-157		FDH ENGINEERING	
		SHEET# 1 OF 5	

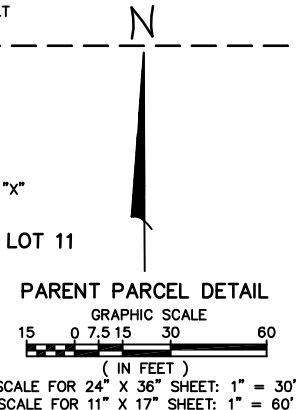
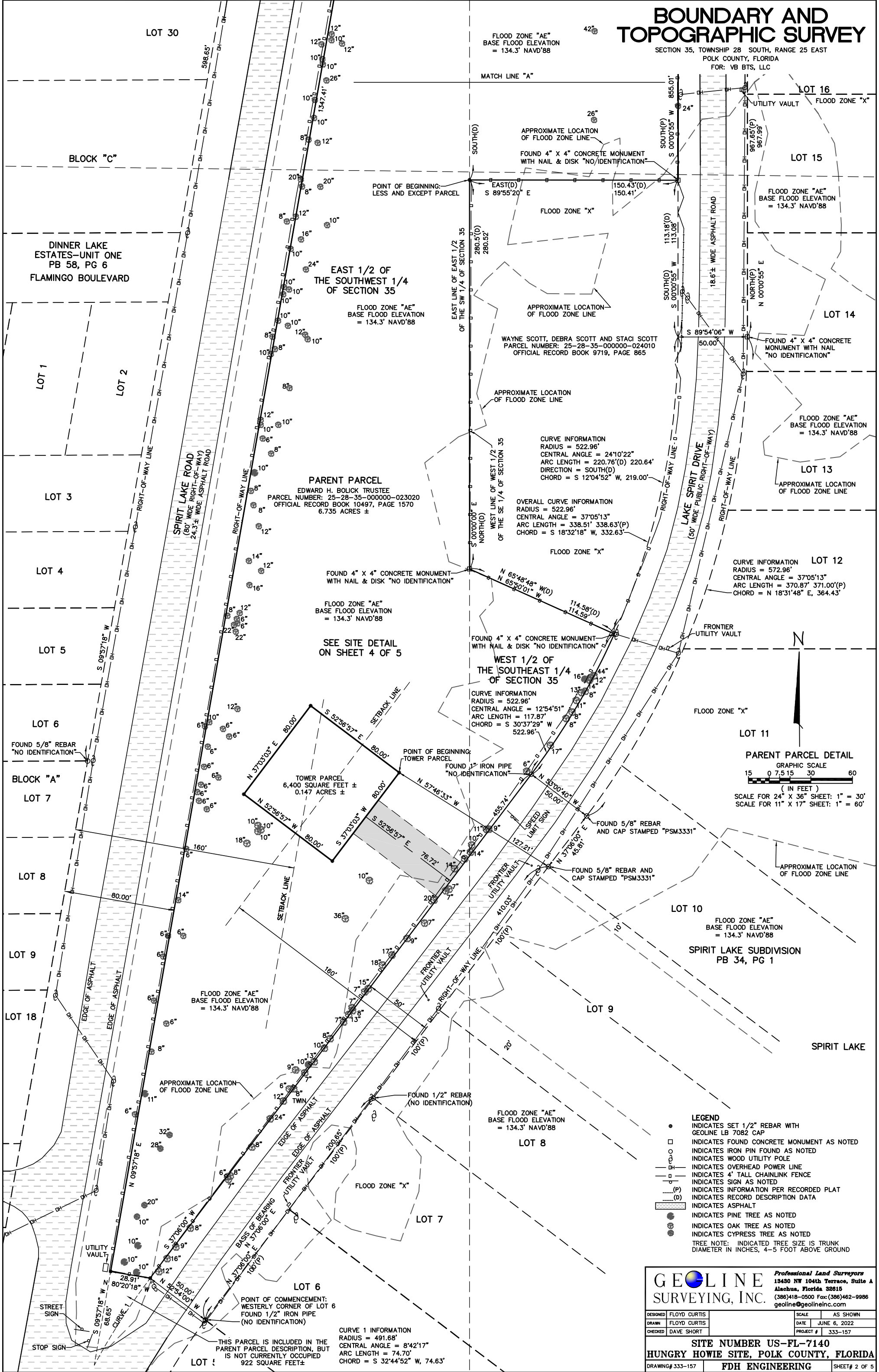
LEGEND

- INDICATES IRON PIN FOUND AS NOTED
- INDICATES WOOD UTILITY POLE
- H— INDICATES OVERHEAD POWER LINE
- (P) INDICATES INFORMATION PER RECORDED PLAT
- (D) INDICATES RECORD DESCRIPTION DATA
- ▨ INDICATES ASPHALT

REVISED 10/17/2022: RECONFIGURED AND DESCRIBED TOWER PARCEL AND ASSOCIATED EASEMENT - BY: FC

BOUNDARY AND TOPOGRAPHIC SURVEY

SECTION 35, TOWNSHIP 28 SOUTH, RANGE 25 EAST
POLK COUNTY, FLORIDA
FOR: VB BTS, LLC



- LEGEND**
- INDICATES SET 1/2" REBAR WITH GEOLINE LB 7082 CAP
 - INDICATES FOUND CONCRETE MONUMENT AS NOTED
 - INDICATES IRON PIN FOUND AS NOTED
 - INDICATES WOOD UTILITY POLE
 - INDICATES OVERHEAD POWER LINE
 - INDICATES 4' TALL CHAINLINK FENCE
 - INDICATES SIGN AS NOTED
 - (P) INDICATES INFORMATION PER RECORDED PLAT
 - (D) INDICATES RECORD DESCRIPTION DATA
 - ▨ INDICATES ASPHALT
 - INDICATES PINE TREE AS NOTED
 - INDICATES OAK TREE AS NOTED
 - INDICATES CYPRESS TREE AS NOTED
 - NOTE: INDICATED TREE SIZE IS TRUNK DIAMETER IN INCHES, 4-5 FOOT ABOVE GROUND

GEOLINE SURVEYING, INC.
Professional Land Surveyors
13490 NW 104th Terrace, Suite A
Alachua, Florida 32815
(386)418-0500 Fax: (386)462-9986
geoline@geolineinc.com

DESIGNED	FLOYD CURTIS	SCALE	AS SHOWN
DRAWN	FLOYD CURTIS	DATE	JUNE 6, 2022
CHECKED	DAVE SHORT	PROJECT #	333-157

SITE NUMBER US-FL-7140
HUNGRY HOWIE SITE, POLK COUNTY, FLORIDA
DRAWING# 333-157 **FDH ENGINEERING** SHEET# 2 OF 5

BOUNDARY AND TOPOGRAPHIC SURVEY

SECTION 35, TOWNSHIP 28 SOUTH, RANGE 25 EAST
POLK COUNTY, FLORIDA
FOR: VB BTS, LLC

LOT 20

CURVE INFORMATION
RADIUS = 1185.92'
CENTRAL ANGLE = 16°52'38"
ARC LENGTH = 349.33'
CHORD = S 32°13'51" W, 348.07'

LOT 25

CURVE INFORMATION
RADIUS = 441.68'
CENTRAL ANGLE = 56°50'56"
ARC LENGTH = 438.23' 437.35'(P)
CHORD = N 28°23'37" E, 420.48'

LOT 24

CURVE 2 INFORMATION
RADIUS = 1105.92'
CENTRAL ANGLE = 4°27'22"
ARC LENGTH = 86.01'
CHORD = N 34°13'34" E, 85.99'

CURVE 3 INFORMATION
RADIUS = 491.68'
CENTRAL ANGLE = 9°20'22"
ARC LENGTH = 80.15'
CHORD = S 13°12'04" W, 80.06'

LOT 19

FOUND 1" IRON PIPE
"NO IDENTIFICATION"

CURVE INFORMATION
RADIUS = 491.68'
CENTRAL ANGLE = 08°33'27"
ARC LENGTH = 73.44'
CHORD = S 04°15'09" W
73.37'

FOUND 4" X 4" CONCRETE MONUMENT
WITH 5/8" IRON ROD "NO IDENTIFICATION"
IN THE CENTER OF IT

LOT 23



CURVE INFORMATION
RADIUS = 1185.92'
CENTRAL ANGLE = 13°48'24"
ARC LENGTH = 285.77'
CHORD = S 16°53'20" W
285.08'

PARENT PARCEL DETAIL

GRAPHIC SCALE
15 0 7.5 15 30 60
(IN FEET)

SCALE FOR 24" X 36" SHEET: 1" = 30'
SCALE FOR 11" X 17" SHEET: 1" = 60'

FOUND 4" X 4" CONCRETE MONUMENT
WITH 2" ALUMINUM CAP "#2260"

CURVE INFORMATION
RADIUS = 1105.92'
CENTRAL ANGLE = 22°03'37"
ARC LENGTH = 425.81'
CHORD = N 21°01'04" E, 423.18'

FLOOD ZONE "AE"
BASE FLOOD ELEVATION
= 134.3' NAVD'88

PARENT PARCEL
EDWARD H. BOLICK TRUSTEE
PARCEL NUMBER: 25-28-35-000000-023020
OFFICIAL RECORD BOOK 10497, PAGE 1570
6.735 ACRES ±

WEST 1/2 OF
THE SOUTHEAST 1/4
OF SECTION 35

LOT 21

SPIRIT LAKE SUBDIVISION
PB 34, PG 1
LOT 20

FLOOD ZONE "AE"
BASE FLOOD ELEVATION
= 134.3' NAVD'88

LOT 19

SHADOW WOOD WAY

LOT 28

SPIRIT LAKE ROAD
(80' WIDE RIGHT-OF-WAY)
24.3' ± WIDE ASPHALT ROAD

POINT OF REFERENCE:
LESS AND EXCEPT PARCEL
NW CORNER OF THE SW 1/4
OF THE SE 1/4 OF SECTION 35

APPROXIMATE LOCATION OF
FLOOD INSURANCE RATE MAP LINE
MAP NUMBER 12105C345G
MAP NUMBER 12105C510G

EAST 1/2 OF
THE SOUTHWEST 1/4
OF SECTION 35

FLOOD ZONE "AE"
BASE FLOOD ELEVATION
= 134.3' NAVD'88

MATCH LINE "A"

GEOLINE
SURVEYING, INC.

Professional Land Surveyors
13490 NW 104th Terrace, Suite A
Alachua, Florida 32815
(386)418-0500 Fax: (386)462-9986
geoline@geolineinc.com

DESIGNED FLOYD CURTIS
DRAWN FLOYD CURTIS
CHECKED DAVE SHORT

SCALE AS SHOWN
DATE JUNE 6, 2022
PROJECT # 333-157

SITE NUMBER US-FL-7140
HUNGRY HOWIE SITE, POLK COUNTY, FLORIDA
DRAWING# 333-157 FDH ENGINEERING SHEET# 3 OF 5

BOUNDARY AND TOPOGRAPHIC SURVEY

SECTION 35, TOWNSHIP 28 SOUTH, RANGE 25 EAST
POLK COUNTY, FLORIDA
FOR: VB BTS, LLC

PARENT PARCEL

EDWARD H. BOLICK TRUSTEE
PARCEL NUMBER: 25-28-35-000000-023020
OFFICIAL RECORD BOOK 10497, PAGE 1570
6.735 ACRES ±

FLOOD ZONE "AE"
BASE FLOOD ELEVATION
= 134.3' NAVD'88

FLOOD ZONE "X"

TOWER PARCEL
6,400 SQUARE FEET ±
0.147 ACRES ±

POINT OF BEGINNING:
CENTERLINE OF 30 FOOT WIDE
NON-EXCLUSIVE INGRESS, EGRESS
AND UTILITY EASEMENT

30 FOOT WIDE NON-EXCLUSIVE,
INGRESS, EGRESS AND UTILITY EASEMENT
2,302 SQUARE FEET ±
0.053 ACRES ±

POINT OF TERMINUS:
CENTERLINE OF 30 FOOT WIDE
NON-EXCLUSIVE INGRESS, EGRESS
AND UTILITY EASEMENT

NOTE:
SET 1/2" REBAR
(NO IDENTIFICATION)
AT THE PROPOSED
CENTER OF TOWER

SITE DETAIL

GRAPHIC SCALE
(IN FEET)
5 0 2.5 5 10 20

SCALE FOR 24" X 36" SHEET: 1" = 10'
SCALE FOR 11" X 17" SHEET: 1" = 20'

LEGEND

- INDICATES SET 1/2" REBAR WITH GEOLINE LB 7082 CAP
- INDICATES IRON PIN FOUND AS NOTED
- INDICATES WOOD UTILITY POLE
- INDICATES OVERHEAD POWER LINE
- INDICATES 4' TALL CHAINLINK FENCE
- X 133.3 (P) INDICATES TOPOGRAPHIC SPOT ELEVATION
- INDICATES INFORMATION PER RECORDED PLAT
- INDICATES ASPHALT
- INDICATES OAK TREE AS NOTED
- INDICATES PINE TREE AS NOTED

NAVD'88 = NORTH AMERICAN VERTICAL DATUM, 1988 ADJUSTMENT.
NGVD'29 = NATIONAL GEODETIC VERTICAL DATUM, 1929 ADJUSTMENT.
NAD'83 = INDICATES NORTH AMERICAN DATUM, 1983 ADJUSTMENT.
NAD'27 = INDICATES NORTH AMERICAN DATUM, 1927 ADJUSTMENT.

GEOLINE SURVEYING, INC.

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(386)418-0500 Fax: (386)462-9986
geoline@geolineinc.com

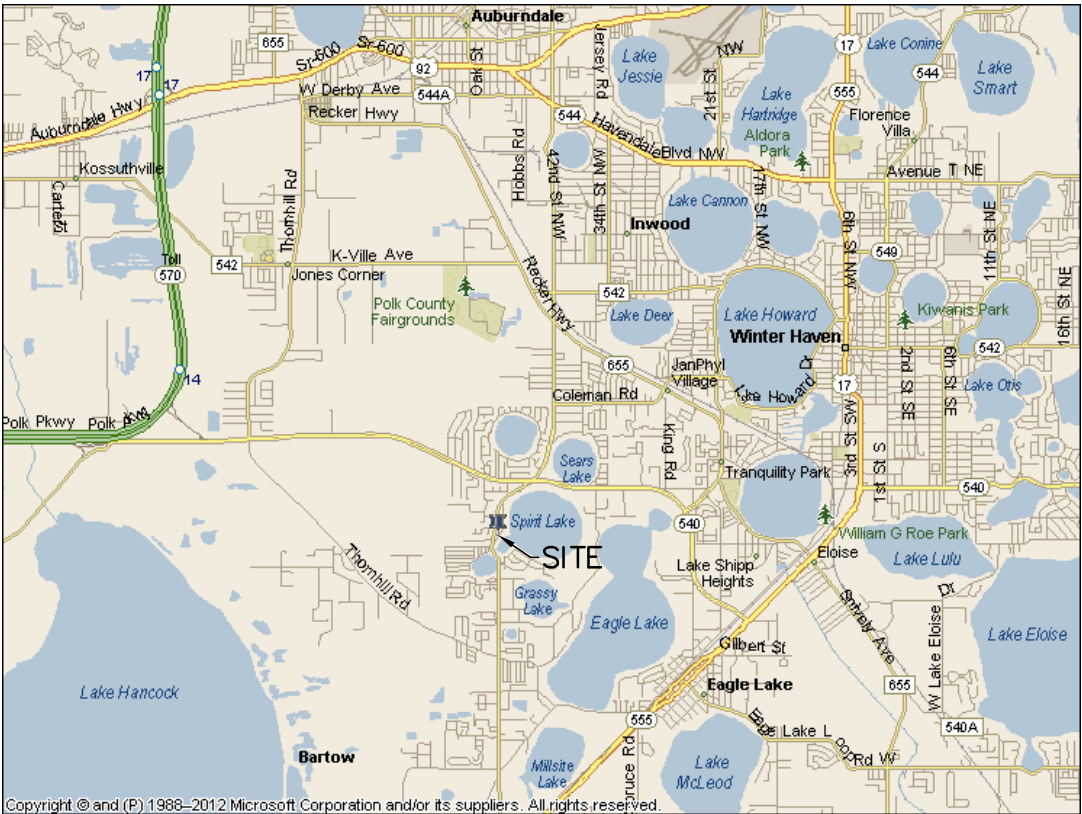
DESIGNED FLOYD CURTIS
DRAWN FLOYD CURTIS
CHECKED DAVE SHORT

SCALE AS SHOWN
DATE JUNE 6, 2022
PROJECT # 333-157

SITE NUMBER US-FL-7140
HUNGRY HOWIE SITE, POLK COUNTY, FLORIDA
DRAWING# 333-157 FDH ENGINEERING SHEET# 4 OF 5

BOUNDARY AND TOPOGRAPHIC SURVEY

SECTION 35, TOWNSHIP 28 SOUTH, RANGE 25 EAST
POLK COUNTY, FLORIDA
FOR: VB BTS, LLC



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

PROPERTY DESCRIPTIONS

PARENT PARCEL
(OFFICIAL RECORD BOOK 10497, PAGE 1570)

THAT PART OF THE WEST 1/2 OF THE SE 1/4 OF SECTION 35, TOWNSHIP 28 SOUTH, RANGE 25 EAST, POLK COUNTY, FLORIDA, LYING WEST OF OLD SPIRIT LAKE ROAD AND SOUTH OF NEW SPIRIT LAKE ROAD AND THAT PART OF THE EAST 1/2 OF THE SW 1/4 LYING EAST OF NEW SPIRIT LAKE ROAD LESS AND EXCEPT BEGIN 341.53 FEET SOUTH OF THE NW CORNER OF THE SW 1/4 OF THE SE 1/4, RUN THENCE EAST 150.43 FEET, RUN THENCE SOUTH ALONG THE WEST BOUNDARY OF SPIRIT LAKE ROAD 113.18 FEET TO A POINT ON A CURVE THENCE RUN SOUTHWESTERLY ALONG SAID CURVE AN ARC DISTANCE OF 220.76 FEET, THENCE N 65°48'48" W 114.58 FEET, THENCE NORTH 280.5 FEET TO THE POINT OF BEGINNING.

PARCEL ID NUMBER: 252835-000000-023020

TOWER PARCEL
(PREPARED BY GEOLINE SURVEYING, INC.)

THAT PART OF THE "BOLICK" PARCEL, AS PER DESCRIPTION RECORDED IN OFFICIAL RECORD BOOK 10497, PAGE 1570 OF THE PUBLIC RECORDS OF POLK COUNTY, FLORIDA, LYING IN THE EAST 1/2 OF THE SOUTHWEST 1/4, AND THE WEST 1/2 OF THE SOUTHEAST 1/4, SECTION 35, TOWNSHIP 28 SOUTH, RANGE 25 EAST, SAID POLK COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE WESTERLY CORNER OF LOT 6, SPIRIT LAKE SUBDIVISION, AS PER PLAT THEREOF RECORDED IN PLAT BOOK 34, PAGE 1 OF THE PUBLIC RECORDS OF POLK COUNTY, FLORIDA, SAID POINT BEING ON THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF LAKE SPIRIT DRIVE (50 FOOT WIDE RIGHT-OF-WAY); THENCE NORTH 37°06'00" EAST ALONG SAID SOUTHEASTERLY RIGHT-OF-WAY LINE, ALONG THE NORTHWESTERLY LINE OF SAID LOT 6, AND ALONG THE NORTHWESTERLY LINE OF LOTS 7, 8, 9 AND 10 OF SAID SPIRIT LAKE SUBDIVISION FOR 410.03 FEET; THENCE NORTH 57°46'33" WEST FOR 127.21 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 37°03'03" WEST FOR 80.00 FEET; THENCE NORTH 52°56'57" WEST FOR 80.00 FEET; THENCE NORTH 37°03'03" EAST FOR 80.00 FEET; THENCE SOUTH 52°56'57" EAST FOR 80.00 FEET TO SAID POINT OF BEGINNING.

CONTAINING 6,400 SQUARE FEET (0.147 ACRES), MORE OR LESS.

30 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT
(PREPARED BY GEOLINE SURVEYING, INC.)

THAT PART OF THE "BOLICK" PARCEL, AS PER DESCRIPTION RECORDED IN OFFICIAL RECORD BOOK 10497, PAGE 1570 OF THE PUBLIC RECORDS OF POLK COUNTY, FLORIDA, LYING IN THE EAST 1/2 OF THE SOUTHWEST 1/4, AND THE WEST 1/2 OF THE SOUTHEAST 1/4, SECTION 35, TOWNSHIP 28 SOUTH, RANGE 25 EAST, SAID POLK COUNTY, LYING WITHIN 15 FEET OF BOTH SIDES OF A CENTERLINE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE WESTERLY CORNER OF LOT 6, SPIRIT LAKE SUBDIVISION, AS PER PLAT THEREOF RECORDED IN PLAT BOOK 34, PAGE 1 OF THE PUBLIC RECORDS OF POLK COUNTY, FLORIDA, SAID POINT BEING ON THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF LAKE SPIRIT DRIVE (50 FOOT WIDE RIGHT-OF-WAY); THENCE NORTH 37°06'00" EAST ALONG SAID SOUTHEASTERLY RIGHT-OF-WAY LINE, ALONG THE NORTHWESTERLY LINE OF SAID LOT 6, AND ALONG THE NORTHWESTERLY LINE OF LOTS 7, 8, 9 AND 10 OF SAID SPIRIT LAKE SUBDIVISION FOR 410.03 FEET; THENCE NORTH 57°46'33" WEST FOR 127.21 FEET TO THE EASTERLY CORNER OF A 80 FOOT BY 80 FOOT TOWER PARCEL; THENCE SOUTH 37°03'03" WEST ALONG THE SOUTHEASTERLY LINE OF SAID TOWER PARCEL FOR 40.00 FEET TO THE POINT OF BEGINNING OF THE CENTERLINE OF THE HEREIN DESCRIBED 30 FOOT WIDE NON-EXCLUSIVE INGRESS, EGRESS AND UTILITY EASEMENT; THENCE SOUTH 52°56'57" EAST FOR 76.72 FEET TO AN INTERSECTION WITH THE NORTHWESTERLY RIGHT-OF-WAY LINE OF SAID LAKE SPIRIT DRIVE AND THE POINT OF TERMINUS OF THE HEREIN DESCRIBED CENTERLINE.

CONTAINING 2,302 SQUARE FEET (0.053 ACRES), MORE OR LESS.

COMMITMENT FOR TITLE INSURANCE REVIEW NOTE

I HAVE REVIEWED THE COMMITMENT FOR TITLE INSURANCE ISSUED BY TOWER AGENCY, LLC, COMMITMENT NUMBER. VTB-129746-C, WITH AN EFFECTIVE DATE OF 03/16/2022, AND FIND AS FOLLOWS WITH RESPECT TO THE EXCEPTIONS LISTED ON SCHEDULE B-SECTION II OF SAID COMMITMENT:

- ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET. NOT THE TYPE TO BE DEPICTED HEREON.
- RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. NOT THE TYPE TO BE DEPICTED HEREON.
- EASEMENTS OR CLAIMS OF EASEMENTS NOT SHOWN BY THE PUBLIC RECORDS. NOT THE TYPE TO BE DEPICTED HEREON.
- DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, ENCROACHMENTS, OVERLAPS, VARIATIONS OR SHORTAGE IN AREA OR CONTENT, PARTY WALLS AND ANY OTHER MATTERS THAT WOULD BE DISCLOSED BY A CORRECT SURVEY AND/OR PHYSICAL INSPECTION OF THE LAND. AS DEPICTED HEREON.
- ANY LIEN, OR RIGHT TO LIEN, FOR SERVICES, LABOR OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORD. NOT THE TYPE TO BE DEPICTED HEREON.
- ANY WATER OR WELL RIGHTS, OR RIGHTS OR TITLE TO WATER OR CLAIMS THEREOF, IN, ON OR UNDER THE LAND. NOT THE TYPE TO BE DEPICTED HEREON.
- UNPATENTED MINING CLAIMS; RESERVATIONS OR EXCEPTIONS IN PATENTS OR IN THE ACTS AUTHORIZING THE ISSUANCE OF SAID PATENTS. NOT THE TYPE TO BE DEPICTED HEREON.
- ALL TAXES, ASSESSMENTS, LEVIES AND CHARGES WHICH CONSTITUTE LIENS OR ARE DUE OR PAYABLE INCLUDING UNREDEEMED TAX SALES. NOT THE TYPE TO BE DEPICTED HEREON.
- RIGHTS OF FEE SIMPLE OWNERS IN AND TO THE SUBJECT PROPERTY. NOT THE TYPE TO BE DEPICTED HEREON.

GEOLINE
SURVEYING, INC.

Professional Land Surveyors
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Alachua, Florida 32615
(386)418-0500 Fax: (386)462-9986
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DESIGNED	FLOYD CURTIS	SCALE	AS SHOWN
DRAWN	FLOYD CURTIS	DATE	JUNE 6, 2022
CHECKED	DAVE SHORT	PROJECT #	333-157

SITE NUMBER US-FL-7140
HUNGRY HOWIE SITE, POLK COUNTY, FLORIDA

DRAWING# 333-157 FDH ENGINEERING SHEET# 5 OF 5

GENERAL NOTES:

1. EVERY EFFORT HAS BEEN MADE IN THE CONSTRUCTION DOCUMENTS TO PROVIDE A COMPLETE SCOPE OF WORK. MINOR DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE CONTRACTORS FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
2. BIDDING REQUIREMENTS

a. PRIOR TO THE SUBMISSION OF BIDS, VISIT THE JOB SITE TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. VISIT THE SITE WITH THE CONSTRUCTION DOCUMENTS TO VERIFY FIELD DIMENSIONS AND CONDITIONS TO CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN.

b. PROVIDE NOTIFICATION TO OWNER'S REPRESENTATIVE IN WRITING OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF PRICE PROPOSAL. IN THE EVENT OF DISCREPANCIES, PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.

c. WHEN TOWER IS OWNED BY A THIRD PARTY, CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BID WALK.

d. WHERE ANCHORING TO A CONCRETE ROOF SLAB, CONFIRM (PRIOR TO SUBMITTING BID) THE PRESENCE OF POST TENSION TENDONS. INCLUDE PROVISIONS FOR X-RAY PROCEDURES TO LOCATE THE TENDONS PRIOR TO CONSTRUCTION.
3. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONSTRUCTION DOCUMENTS ARE INTENDED FOR DIAGRAMMATIC PURPOSES ONLY, UNO.
4. FURNISH ALL MATERIALS, EQUIPMENT, LABOR, AND ANY REQUIREMENTS NECESSARY TO COMPLETE PROJECT AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
5. SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONSTRUCTION DOCUMENTS. PROVIDE ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
6. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES APPLICABLE TO THE WORK.
7. CONSTRUCTION COORDINATION REQUIREMENTS

a. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO START OF WORK.

b. OBTAIN ALL PERMITS. SCHEDULE AND COORDINATE ALL INSPECTIONS.

c. PROVIDE, AT THE PROJECT SITE, A FULL, CURRENT SET OF CONSTRUCTION DOCUMENTS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

d. RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DOCUMENTS.

e. PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.

f. PROVIDE FALL PROTECTION IN ACCORDANCE WITH FEDERAL, STATE, LOCAL, AND OWNER REQUIREMENTS.

g. IF FAA LIGHTING AND MARKING IS PRESENT ON SITE AND IS POWERED BY ELECTRICAL SERVICE THAT IS TO BE INTERRUPTED, MAINTAIN THE NECESSARY LIGHTS DURING CONSTRUCTION AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A DISRUPTION.

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

i. STRUCTURAL COMPONENTS OF ADJACENT FACILITIES SHALL NOT BE ALTERED BY THIS CONSTRUCTION PROJECT, UNO. ENSURE THAT EXCAVATION DOES NOT AFFECT ADJACENT STRUCTURES.

j. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL-APPROVED MATERIALS, IF APPLICABLE.

k. BURIED UTILITIES MAY EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.

l. COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO OWNER'S REPRESENTATIVE.

m. PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

n. KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

o. MAINTAIN THE INTEGRITY OF THE BUILDING ENVELOPE AND CONSTRUCT BARRIERS IN THE AREA OF WORK TO PREVENT DAMAGE FROM WEATHER AS WELL AS FROM CONSTRUCTION DUST AND DEBRIS.
8. INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS, UNO, OR WHERE LOCAL CODES OR ORDINANCES DIRECT OTHERWISE.
9. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY OWNER'S REPRESENTATIVE.

10. DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP THE APPROVED CONSTRUCTION DRAWINGS AND SUBMITTING THE REDLINED SET TO OWNER'S REPRESENTATIVE UPON COMPLETION. DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS TO BE SUBMITTED WITH REDLINED CONSTRUCTION DRAWINGS.
11. PROVIDE SUPPORTS FOR CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS IN ACCORDANCE WITH ALL MANUFACTURER'S REQUIREMENTS.
12. A STRUCTURAL ANALYSIS AND A MOUNT ANALYSIS (IF REQUIRED) TO DETERMINE THE STRUCTURAL CAPACITY TO SUPPORT THIS PROPOSED EQUIPMENT WAS PERFORMED OUTSIDE THE SCOPE OF THIS PROJECT.
13. CONFIRM THAT THE REQUIREMENTS OF THE STRUCTURAL ANALYSIS, MOUNT ANALYSIS AND ANY ASSOCIATED MODIFICATIONS HAVE BEEN FOLLOWED AND COMPLETED AS REQUIRED TO SUPPORT THE EQUIPMENT ASSOCIATED WITH THIS PROJECT.

SPECIAL INSPECTIONS:

1. WHEN REQUIRED, PROVIDE SPECIAL INSPECTIONS PERFORMED BY AN INDEPENDENT INSPECTOR, APPROVED BY OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION.
2. THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THE REPORT TO THE OWNER'S REPRESENTATIVE, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL.

POLK COUNTY LAND DEVELOPMENT DIVISION STANDARD NOTES

1. TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED PRIOR TO OPENING A NEW OR MODIFIED ROAD.
2. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF APPENDIX A OF THE POLK COUNTY LAND DEVELOPMENT CODE AND THE POLK COUNTY UTILITIES CODE, AS APPLICABLE.
3. CHANGES FROM PLANS OR SPECIFICATIONS SUBSTANTIALLY AFFECTING CONFORMANCE TO STANDARDS OR PERFORMANCE OF SYSTEMS MUST BE SUBMITTED IN A WRITTEN REQUEST BY THE ENGINEER OF RECORD AND RECEIVE WRITTEN APPROVAL BY THE COUNTY ENGINEER PRIOR TO THE IMPLEMENTATION OF SUCH CHANGES, UNLESS OTHERWISE PROVIDED FOR IN THE POLK COUNTY LAND DEVELOPMENT CODE OR THE POLK COUNTY UTILITIES CODE. MAJOR MODIFICATIONS MAY REQUIRE AN APPROVAL BY THE DEVELOPMENT REVIEW COMMITTEE. IN SUCH CASES, THE APPLICANT SHALL SUBMIT THE APPROPRIATE APPLICATION AND FEES FOR A NEW REVIEW AT THE LEVEL OF THE ORIGINAL APPROVAL, OR LEVEL 2, WHICHEVER IS GREATER.
4. THE CONTRACTOR SHALL NOTIFY POLK COUNTY INSPECTIONS STAFF (863) 534-6449, AT LEAST FIVE (5) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND PRIOR TO ANY ACTIVITY REQUIRING INSPECTION, INCLUDING SITE PAVING.
5. TO SCHEDULE THE REQUIRED PRE-CONSTRUCTION MEETING, THE ENGINEER OF RECORD SHALL CONTACT THE POLK COUNTY LAND DEVELOPMENT DIVISION, OFFICE OF THE COUNTY ENGINEER AT (863) 534-6449.
6. AT THE COMPLETION OF CONSTRUCTION, AND PRIOR TO BENEFICIAL USE OF ANY FACILITY OR SYSTEM, AS-BUILT RECORD DRAWINGS SHALL BE SUBMITTED AND APPROVED IN ACCORDANCE WITH POLK COUNTY UTILITIES CODE, CHAPTER 2, PART 3.01 AND THE POLK COUNTY LAND DEVELOPMENT CODE, APPENDIX A, SECTION A406.C.
7. MOT FOR THE PROJECT WILL BE IN ACCORDANCE WITH THE CURRENT FDOT TRAFFIC CONTROL REQUIREMENTS THROUGH WORK ZONES, SECTION 102-600 SERIES, OF THE FDOT STANDARD PLANS.
8. THE ASPHALT PAVEMENT WILL EXTEND ¼ INCH ABOVE THE ROAD SIDE EDGE FOR ALL CURB AND GUTTER CONSTRUCTED ON PUBLIC OR PRIVATE ROADS.
9. POLK COUNTY IS NOT RESPONSIBLE FOR DESIGN AND/OR PLAN ERRORS. ALL CONSTRUCTION WITHIN POLK COUNTY R/W SHALL BE IN ACCORDANCE WITH POLK COUNTY AND FDOT STANDARDS AND SPECIFICATIONS. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF APPENDIX A OF THE POLK COUNTY LAND DEVELOPMENT CODE AND THE POLK COUNTY UTILITIES CODE, AS APPLICABLE.

ABBREVIATIONS			
A/C	AIR CONDITIONING	LBS	POUNDS
AFF	ABOVE FINISHED FLOOR	LTE	LONG TERM EVOLUTION
AGL	ABOVE GROUND LEVEL,	MAX	MAXIMUM
	ABOVE GRADE LEVEL	MECH	MECHANICAL
AWS	ADVANCED WIRELESS SERVICE	MTL	METAL
BBU	BATTERY BACKUP UNIT	MFR	MANUFACTURE
BLDG	BUILDING	MGR	MANAGER
BLK	BLOCKING	MIN	MINIMUM
CLG	CEILING	MISC	MISCELLANEOUS
CLR	CLEAR	NA	NOT APPLICABLE
CONC	CONCRETE	NIC	NOT IN CONTRACT
CONT	CONTINUOUS	NO	NUMBER
D	DEPTH	NTS	NOT TO SCALE
DBL	DOUBLE	OC	ON CENTER
DEG	DEGREE	OD	OUTSIDE DIAMETER
Ø, DIA	DIAMETER	PCS	PERSONAL COMMUNICATION
DIAG	DIAGONAL		SERVICE
DN	DOWN	PDU	POWER DISTRIBUTION UNIT
DET	DETAIL	PROJ	PROJECT
DWG	DRAWING	PROP	PROPERTY
E	EXISTING	PT	PRESSURE TREATED
EA	EACH	PVC	POLYVINYL CHLORIDE
ELEV, EL	ELEVATION	REQ	REQUIRED
ELEC	ELECTRICAL	RF	RADIO FREQUENCY
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RO	ROUGH OPENING
EXT	EXTERIOR	RRH	REMOTE RADIO HEAD
FIF	FIBER INTERFACE FRAME,	SHT	SHEET
	FACILITY INTERFACE FRAME	SIM	SIMILAR
FIN	FINISH	SPEC	SPECIFICATION
FLUOR	FLUORESCENT	SF	SQUARE FOOT
FLR	FLOOR	SS	STAINLESS STEEL
FT	FOOT, FEET	STL	STEEL
GA	GAUGE	SUSP	SUSPENDED
GALV	GALVANIZED	TMA	TOWER MOUNTED AMPLIFIER
GC	GENERAL CONTRACTOR	TND	TINNED
GRND	GROUND	TYP	TYPICAL
GSM	GLOBAL SYSTEM MOBILE	UMTS	UNIVERSAL MOBILE
GYP	GYPSUM BOARD		TELECOMMUNICATION SERVICE
HORZ	HORIZONTAL	UNO	UNLESS NOTED
OTHERWISE			
HR	HOUR	VERT	VERTICAL
HT	HEIGHT	W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
IN	INCH, INCHES	WCS	WIRELESS COMMUNICATION
INSUL	INSULATION		SERVICE
INT	INTERIOR	WP	WATER PROOF
L	LENGTH		

VB

BTS II, LLC

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BOCA RATON, FL 33487

T

Mobile

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SUITE 110 A-B
TAMPA, FL 33634

FDH

INFRASTRUCTURE SERVICES

ENGINEERING INNOVATION

FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH IS PROHIBITED.

SUBMITTALS				
REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB

DENNIS DANIEL ABEL

LICENSE

No 62750

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140

SITE NAME:
HUNGRY HOWIE

T-MOBILE SITE ID:
A2B2227A

PARCEL:
252835000000023020

ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-1

3. CLEAR AND GRUB SITE OF ALL VEGETATION, PAVING, GRAVEL BASE AND OTHER DEBRIS NOT TO REMAIN. SUBGRADES ARE TO BE SET PRIOR TO LANDSCAPE INSTALLATION.
2. PROVIDE ELEVATION OF SUBGRADE WITHIN 0.10 FOOT OF ELEVATIONS SHOWN ON PLAN MINUS DEPTH OF TOPSOIL, FILL, AND MULCH.
3. ROUGH GRADE ALL AREAS WITHIN 1 FOOT OF ELEVATIONS INDICATED BEFORE PLANTING. PROVIDE POSITIVE DRAINAGE AWAY FROM EQUIPMENT SLABS, BUILDINGS AND THROUGH ALL PLANTER AREAS TO AVOID LOW SPOTS AND STANDING WATER.
4. REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUB GRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, UNDERCUT AND REPLACE WITH SUITABLE MATERIAL AT CONTRACTOR'S EXPENSE. ALL SUB GRADES AND AGGREGATE BASE COURSES SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM DUMP TRUCK, AND ANY SOFT SPOTS SHALL BE REWORKED OR REPLACED UNTIL PASSING PROOF ROLL.
5. BLEND NEW GRADES NATURALLY INTO EXISTING GRADES.
6. MAINTAIN POSITIVE DRAINAGE ON THE SITE AT ALL TIMES, INCLUDING KEEPING ALL EXISTING AND NEW DITCHES, PIPES AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION. ANY DAMAGE RESULTING FROM FAILURE TO COMPLY SHALL BE REMEDIED BY CONTRACTOR
7. IF REQUIRED, MAINTAIN CONTINUOUS EROSION CONTROL ON THE DOWNSTREAM SIDE OF THE SITE.
8. IN LANDSCAPE AREAS, FINISH GRADES ARE TO FOLLOW THE GRADES AND EDGE DETAILS INDICATED AND BE MOUNDED 6 INCHES IN THE CENTER OF THE BED ABOVE THE EDGE OF THE LANDSCAPE AREA.
9. DO NOT PLACE FILL OR EMBANKMENT MATERIAL ON FROZEN GROUND. DO NOT PLACE FROZEN MATERIALS, SNOW OR ICE IN ANY FILL OR EMBANKMENT.
10. NOTIFY OWNER'S REPRESENTATIVE IF MODIFICATIONS TO THE PROPOSED GRADING SEEM NECESSARY AND OBTAIN APPROVAL PRIOR TO START OF WORK.
11. FOOTINGS SHALL BEAR ON FIRM, NATURAL, UNDISTURBED SOIL, OR ON ENGINEERED FILL (COMPACTED TO 95% ASTM D698). ENSURE THAT EXCAVATIONS ARE FREE OF ORGANIC MATERIAL, DEBRIS, OR OTHER FOREIGN MATERIAL. NOTIFY OWNER'S REPRESENTATIVE IF ANY UNUSUAL CONDITIONS ARE ENCOUNTERED.
12. FILL AND SLAB BASE MATERIAL SHALL BE 3/4" MINUS CRUSHED ROCK PLACED IN 8" (MAXIMUM) LOOSE LIFTS AND COMPACTED TO 98% ASTM D698.

1. CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

CONCRETE CONSTRUCTION	ACI 318
CEMENT	ASTM C150, PORTLAND CEMENT TYPE II, UNO
REINFORCING STEEL	ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60 Ksi, UNO
WELDED WIRE FABRIC	ASTM A185
SPIRAL REINFORCEMENT	ASTM A615, GRADE 60, fy=60 KSI
ANCHOR BOLTS	ASTM A307
GRADE 60 REBAR WELDING	ASTM A706

NOTES: ANY BARS SO NOTED ON THE DRAWINGS SHALL BE GRADE 60, fy=60 KSI. REINFORCING COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D14 ARE SUBMITTED.
2. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE	3"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER	(≥ #6 BARS) 2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER	(≤ #5 BARS) 1-1/2"
SLABS AND WALLS	(INTERIOR FACE) 3/4"
3. AIR ENTRAIN ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, C618, C989 AND C1017. AIR ENTRAIN CONCRETE EXPOSED TO FREEZING AND THAWING WHILE MOIST IN ACCORDANCE WITH ACI 318, SECTION 4.4.1.
4. DETAIL REINFORCING STEEL (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
5. PERFORM WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) USING LOW HYDROGEN ELECTRODES. PERFORM WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) USING E70 XX ELECTRODES. DO NOT WELD WITHIN 4" OF COLD BENDS IN REINFORCING STEEL.
6. DO NOT FIELD BEND REINFORCING PARTIALLY EMBEDDED IN CONCRETE UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE ENGINEER.
7. SUPPORT BARS ON CHAIRS OR DOBIE BRICKS.
8. FURNISH NON-SHRINK GROUT BY AN APPROVED MANUFACTURER. MIX AND PLACE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3 KSI, MINIMUM).
9. ALL EXPANSION ANCHORS TO BE HILTI BRAND, UNO. TEST ADHESIVE ANCHORS TO CONFIRM CAPACITY UNLESS WAIVED BY ENGINEER AND LOCAL JURISDICTION.

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

WIDE FLANGE SHAPES	ASTM A992, GRADE 50
SHAPES, PLATES, ANGLES, & RODS	ASTM A36, Fy 36 KSI
SPECIAL SHAPES AND PLATES	ASTM A572, Fy 50 KSI
PIPE COLUMNS	ASTM A53, Fy 35 KSI
STRUCTURAL TUBING	ASTM A500, Fy 46KSI
ANCHOR BOLTS	ASTM A307
CONNECTION BOLTS	ASTM A325 TWIST-OFF
2. BASE STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH FIELD BOLTING, EXPANSION BOLTS, AND THREADED EXPANSION ANCHORS) ON THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION.
3. HOT DIP GALVANIZE AFTER FABRICATION PER A123/A123M-00 ALL STEEL EXPOSED TO WEATHER AND WHERE NOTED.
4. CONFORM TO ALL AISC AND AWS STANDARDS FOR WELDING. PERFORM WELDING BY ANSI/AWS D1.1 CERTIFIED WELDERS USING E70 XX ELECTRODES. USE ONLY PRE-QUALIFIED WELDS AS DEFINED BY AWS.
5. PROVIDE COLD-FORMED STEEL FRAMING MEMBERS OF THE SHAPE, SIZE, AND GAGE SHOWN ON THE PLANS. PROVIDE MINIMUM SECTION PROPERTIES INDICATED. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
6. FOR BOLTED CONNECTIONS, USE 3/4" DIA., BEARING-TYPE, A325 BOLTS WITH A MINIMUM OF TWO BOLTS, UNO.
7. FOR NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING, USE 5/8" DIA. A307 BOLTS, UNO.
8. PREPARE AND PAINT IN ACCORDANCE WITH THE PAINT MANUFACTURERS WRITTEN INSTRUCTIONS, UNO.
9. TOUCH UP ALL FIELD DRILLING, WELDING AND CUT SURFACES WITH 2 COATS OF GALVACON (ZINC RICH PAINT) OR APPROVED EQUAL.

COMMUNICATION TOWERS SHALL NOT BE ARTIFICIALLY LIGHTED UNLESS REQUIRED BY THE FAA OR ANY OTHER AUTHORITY WITH JURISDICTION. IF LIGHTING IS REQUIRED, STROBE LIGHTING SHALL BE UTILIZED DURING DAYLIGHT HOURS ONLY AND RED LIGHTING SHALL BE UTILIZED AT NIGHT UNLESS ANOTHER FORM OF LIGHTING IS REQUIRED BY THE FAA OR ANY OTHER AUTHORITY WITH JURISDICTION.

ABANDONED COMMUNICATION TOWERS SHALL BE REMOVED WITHIN 30 DAYS OF ABANDONMENT. THE OWNER OF AN ABANDONED TOWER, AS WELL AS THE OWNER OF THE REAL PROPERTY UPON WHICH THE TOWER IS SITUATED, SHALL BE JOINTLY AND SEVERALLY RESPONSIBLE FOR ITS REMOVAL. A COMMUNICATION TOWER SHALL BE CONSIDERED ABANDONED IF NO LICENSED OPERATOR HAS HAD AN ANTENNA IN USE ON THE STRUCTURE FOR A PERIOD OF 365 CONSECUTIVE DAYS.

NO COMMERCIAL SIGNAGE OR ADVERTISING SHALL BE PLACED ON COMMUNICATION TOWERS. HOWEVER, SIGNS PERTAINING TO TRESPASSING MAY BE POSTED ON COMMUNICATION TOWERS AND EMERGENCY PHONE NUMBERS SHALL BE POSTED IN A CONSPICUOUS LOCATION ON THE SECURITY FENCING REQUIRED.

WITH THE EXCEPTION OF CONCRETE COMMUNICATION TOWERS, ALL COMMUNICATION TOWERS SHALL HAVE EITHER A GALVANIZED STEEL FINISH OR, SUBJECT TO ANY APPLICABLE STANDARDS OF THE FAA, BE PAINTED A NEUTRAL COLOR SO AS TO REDUCE VISUAL OBTRUSIVENESS.

ALL DRIVEWAY IMPROVEMENTS WILL COMPLY WITH APPLICABLE FDOT INDEX FOR DESIGN, MATERIAL QUALITY, AND WORKMANSHIP.

EACH OWNER OR OPERATOR OF A COMMUNICATION TOWER LOCATED IN UNINCORPORATED POLK COUNTY SHALL SUBMIT AN ANNUAL REPORT TO THE LAND DEVELOPMENT DIVISION ON FORMS TO BE PROVIDED BY THE LAND DEVELOPMENT DIVISION OR OTHER FORM CONTAINING THE SAME INFORMATION THAT MAY BE REQUIRED BY ANY OTHER REGULATORY AGENCY NO LATER THAN JANUARY 31 OF EACH YEAR. THE ANNUAL REPORT SHALL CONTAIN THE FOLLOWING INFORMATION:

- i. THE NAME OF THE OWNER AND OPERATOR OF THE COMMUNICATION TOWER;
- ii. THE NAME OF THE OWNER OF THE SITE UPON WHICH THE COMMUNICATION TOWER IS LOCATED;
- iii. THE NAMES OF ALL SERVICE PROVIDERS WITH ANTENNAS ON THE COMMUNICATION TOWER;
- iv. THE CURRENT HEIGHT OF THE COMMUNICATION TOWER;
- v. AN AFFIDAVIT INDICATING NON-ABANDONMENT OF THE COMMUNICATION TOWER; AND,
- vi. SUCH OTHER INFORMATION AS INDICATED ON THE FORM PROVIDED BY THE LAND DEVELOPMENT DIVISION.

1. SEE PLATFORM DESIGN SPECIFIC NOTES ON SN-1 AND SN-2.

[illegible]

ELECTRICAL NOTES:

GENERAL

GENERAL CONDITIONS:

- A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARD TO THE CONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE ISSUED TO CONSTRUCTION MANAGER IN WRITING FOR CLARIFICATION PRIOR TO SUBMITTAL OF BID AND CONTRACT AWARD.
- B. THE CONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION OF WORK UNDER THIS SECTION.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

- A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE LATEST EDITIONS OF NEC.

REFERENCES:

- A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISION OF THESE PUBLICATIONS.
1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)

2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)

3. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)

4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)

5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)

6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)

7. UL (UNDERWRITERS LABORATORIES. INC.)

8. AT&T GROUNDING AND BONDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T GROUNDING CHECKLIST, LATEST VERSION

SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL.
- B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE CONTRACTOR.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING OF TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
- D. THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT, THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.

PRODUCTS

GENERAL:

- A. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.
- B. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT AVAILABLE, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

MATERIALS AND EQUIPMENT:

- A. CONDUIT:
1. RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.

2. LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC) SHALL BE UL LISTED.

3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE.

4. NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS SCHEDULE 80 PVC IS SPECIFIED. INSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.

B. CONDUCTORS AND CABLE:

1. CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZE AS INDICATED, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR USED.
2. #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
3. SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.
4. STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS.
5. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, J-BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BRADY, OR APPROVED EQUAL).

C. DISCONNECT SWITCHES:

1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR ENGINEER APPROVED EQUAL.

D. SYSTEM GROUNDING

1. ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE #2 AWG BARE, SOLID, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED.
2. GROUNDING BUSES SHALL BE BARE, TINNED ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION. STANDARD BUS BARS MGB, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE.
3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS. INTERIOR CONNECTIONS USE TWO-HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK.
4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
5. GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 5/8"x10'-0". ALL GROUNDING RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES.
6. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE AT&T SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED TO ALL METALLIC JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT.

E. OTHER MATERIALS:

1. THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.
2. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

F. PANELS AND LOAD CENTERS:

1. ALL PANEL LABELS AND SCHEDULES SHALL BE TYPEWRITTEN.

EXECUTION:

GENERAL:

- A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

LABOR AND WORKMANSHIP:

- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WIREMEN, IN A NEAT AND WORKMAN-LIKE MANNER.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- C. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

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SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-3

ELECTRICAL NOTES (CONTINUED)

COORDINATION:

- A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

INSTALLATION:

A. CONDUIT:

- ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH TRADE SIZE.
- PROVIDE RIGID PVC SCHEDULE 80 CONDUITS FOR ALL RISERS, OR WHERE RIGID OTHERWISE NOTED.
- INSTALL SCHEDULE 40 PVC CONDUIT WITH A MINIMUM COVER OF 24" UNDER ROADWAYS, PARKING LOTS, STREETS, AND ALLEYS. CONDUIT SHALL HAVE A MINIMUM COVER OF 18" IN ALL OTHER NON-TRAFFIC APPLICATIONS (REFER TO 2017 NEC, TABLE 300.5).
- USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
- A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE 90 DEGREE BENDS MAX. CONDUIT BEND SHALL BE MADE WITH THE UL LISTED BENDER OR FACTORY 90 DEGREE ELBOWS MAY BE USED.
- FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE.
- PROVIDE INSULATED GROUNDING BUSHING FOR ALL CONDUITS.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
- ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
- INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
- INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUCTORS.
- CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
- PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS AND/OR SLEEVES. PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE, AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THE PURPOSE.

B. CONDUCTORS AND CABLE:

- SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAY CONDUITS APPROVED FOR THIS PURPOSE.
- PULLING LUBRICANTS SHALL BE UL APPROVED. CONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CONDUCTOR OR CABLES INTO THE CONDUIT.
- CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES AND EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL INJURY AND MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS IS PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

- INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.

D. GROUNDING:

- ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING AND BONDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T GROUNDING CHECKLIST, LATEST VERSION, AND THE NATIONAL ELECTRICAL CODE.
- PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.

- ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
- BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWER, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 AWG COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE STANDARD 6.3.2.2.
- TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
- CONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-IN-POINTS TO THE EXISTING GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.
- APPLY CORROSION-RESISTANT FINISH TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE KOPR-SHIELD ANTI-OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
- A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
- BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE #6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.
- DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 30" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO DISTANCES.
- ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
- DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 30" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES.
- CONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.

ACCEPTANCE TESTING:

- A. CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.
- B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FOR NON-COMPLIANCE.
- C. TEST PROCEDURES:
- ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST RESULTS.
 - PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
 - MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS, SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES.
 - PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.

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SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHKD
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

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PARCEL:

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ADDRESS:

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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:


GN-4

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FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

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PR-008353

SITE ID:
US-FL-7140
SITE NAME:
HUNGRY HOWIE
T-MOBILE SITE ID:
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PARCEL:
252835000000023020
ADDRESS:
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SHEET TITLE:
SIGN DETAILS

SHEET NUMBER:
GN-5



SITE NAME: HUNGRY HOWIE
SITE #: A2B2227A
FCC TOWER ID #: TO BE LOCATED HERE


OWNED BY: VERTICAL BRIDGE
TELEPHONE: 877-589-6411
WWW.VERTICALBRIDGE.COM
SALES @ VERTICALBRIDGE.COM
OPERATIONS @ VERTICALBRIDGE.COM

NO TRESPASSING


NO TRESPASSING!
AUTHORIZED ENTRY ONLY

WARNING
ANTENNAS
MAY BE
ACTIVE

DO NOT CLIMB
TOWER WITHOUT
OWNERS WRITTEN
AUTHORIZATION



18"x24" .040
ALUMINUM
NO TRESPASSING SIGN DETAIL
11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.




RF Controlled Area Beyond This Point
Radio frequency ("RF") emissions may exceed
FCC Standards for general public exposure.
Only authorized workers permitted to enter.

For your safety:
Obey all posted signs.
Maintain minimums distance of 7
feet from all antennas.
Do not step in front of antennas

For further information, please call (877)611-5868
and reference Site Number: AR02135B

RF NOTICE SIGN
(WHITE METAL SIGN W/ BLACK LETTERING)

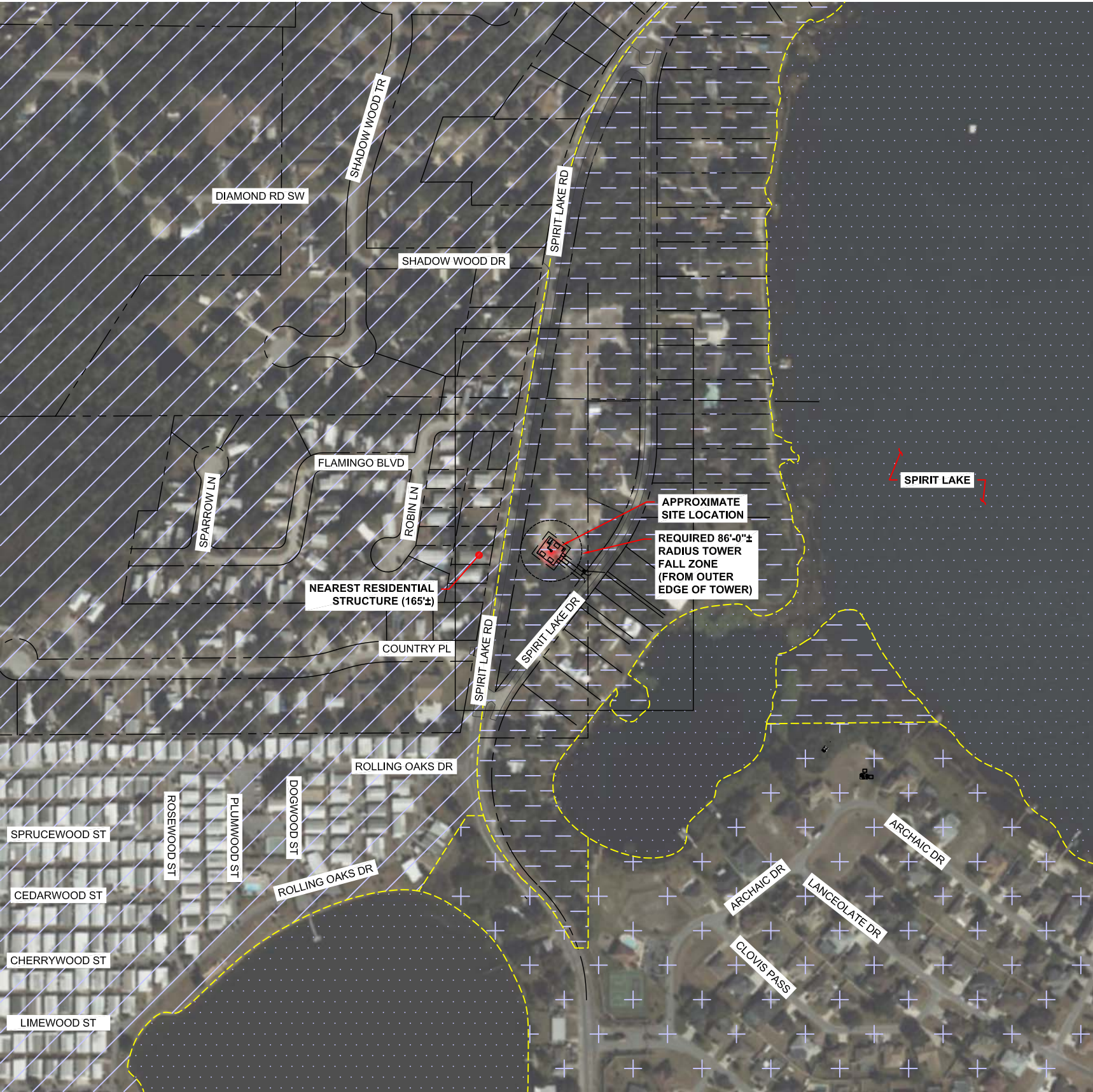


IN CASE OF EMERGENCY
CALL: (877)611-5868

SITE DESIGNATION

EMERGENCY SIGN
(RED METAL SIGN W/ WHITE LETTERING)

T-MOBILE SIGN DETAIL
11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



FUTURE LAND USE LEGEND:

	RL-4
	RL-3
	RL-1
	LAKE

VB
BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487



5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634



FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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WITHOUT THE PERMISSION OF FDH IS PROHIBITED.

SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

252835000000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

ZONING & LAND USE

SHEET NUMBER:

Z-1



FUTURE LAND USE LEGEND:

RL-4

RL-3

RL-1

LAKE

VB

BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

T-Mobile

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TAMPA, FL 33634

FDH

INFRASTRUCTURE SERVICES

ENGINEERING INNOVATION

FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
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REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB

DENNIS DANIEL ABEL

LICENSE

No 62750

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

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A2B2227A

PARCEL:

252835000000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

ZONING & LAND USE

SHEET NUMBER:

Z-2

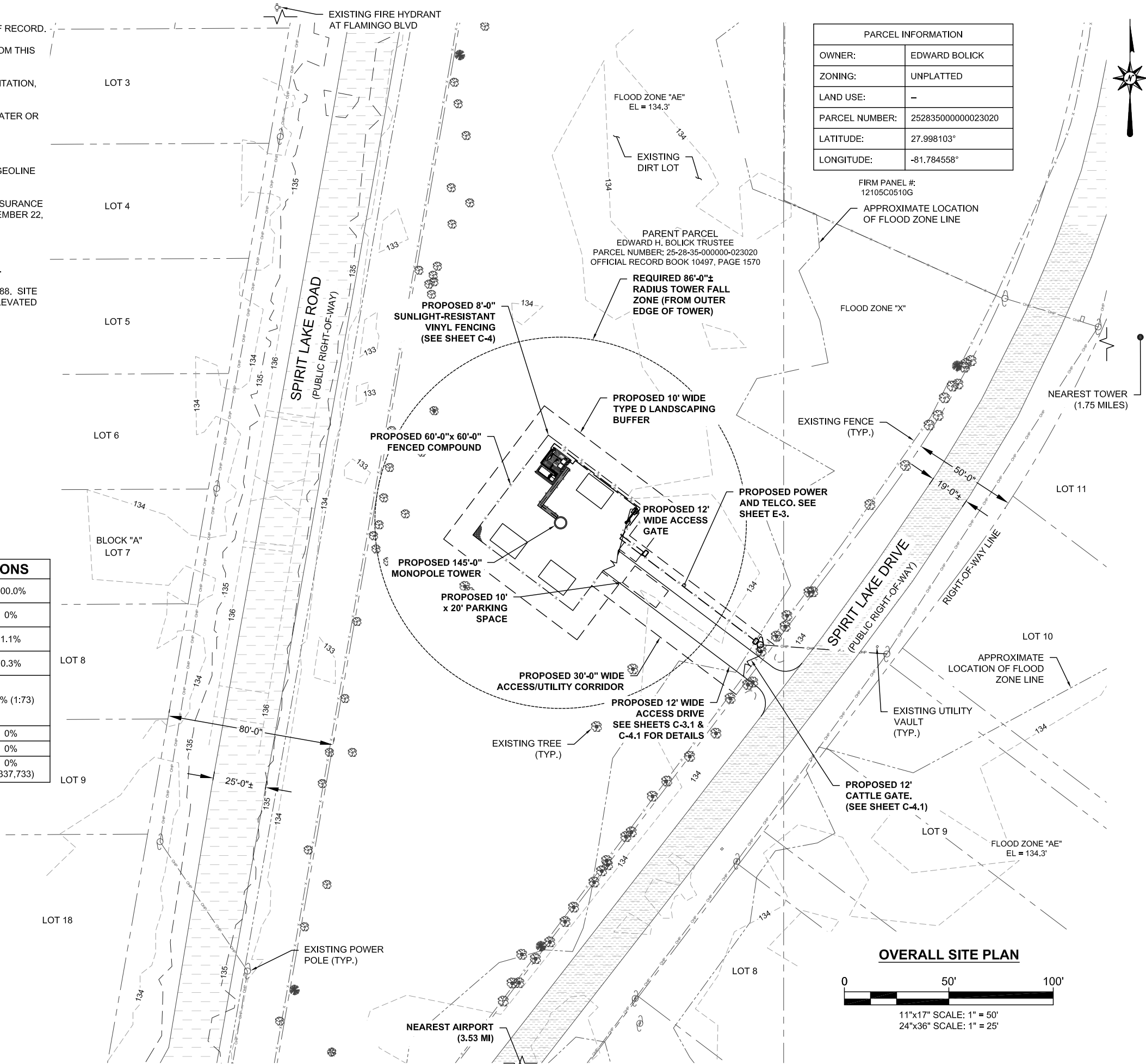
NOTES:

1. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
2. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
3. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION, THERE IS NO HANDICAP ACCESS REQUIRED.
4. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
5. UTILITIES TO BE CONFIRMED DURING SITE VISIT.
6. SITE PLAN AND PROPERTY LINES FROM SURVEY COMPLETED BY GEOLINE SURVEYING, INC. DATED 08/01/22.
7. SITE LOCATION IS LOCATED IN ZONE AE ACCORDING TO FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 12105C0510G DATED DECEMBER 22, 2016. BASE FLOOD ELEVATION: 134.3'
8. PROVIDE POSITIVE DRAINAGE FROM TOWER COMPOUND.
9. EXISTING DRIVE WILL PROVIDE EMERGENCY ACCESS TO THE SITE.
10. THIS SITE IS PARTIALLY LOCATED IN FLOOD ZONE AE 134.3. NAVD '88. SITE TOPOGRAPHY IS ALSO ON NAVD '88. ALL EQUIPMENT SHALL BE ELEVATED TO A MINIMUM ELEVATION OF 135.5'.

SETBACKS:			
ITEM	DIRECTION	REQUIRED	PROVIDED
TOWER	NORTH	155'-0"	181'-9"
	SOUTH	N/A	N/A
	EAST	105'-0"	113'-6"
	WEST	75'-0"	86'-0"
COMPOUND	NORTH	15'-0"	133'-9"
	SOUTH	15'-0"	404'-0"
	EAST	15'-0"	86'-9"
	WEST	35'-0"	48'-7"

ADDITIONAL IMPERVIOUS AREA CALCULATIONS		
EXISTING TOTAL PARCEL AREA	337,733 SF (7.75 ACRES)	100.0%
EXISTING IMPERVIOUS AREA	0 SF	0%
PROPOSED COMPOUND IMPERVIOUS AREA	3,600 SF	1.1%
PROPOSED ACCESS DRIVE IMPERVIOUS AREA	1,041 SF	0.3%
TOTAL PROPOSED IMPERVIOUS AREA	4,641 SF	1.4% (1:73)
TOTAL PROPOSED IMPERVIOUS AREA (ACRES)	$\frac{4,641 \text{ SF}}{43,560 \text{ SF/ACRE}} = 0.107 \text{ ACRES}$	
EXISTING FLOOR AREA	0 SF	0%
PROPOSED FLOOR AREA	0 SF	0%
TOTAL FLOOR AREA	0 SF	0% (0:337,733)

LEGEND:		
	OHP	E-OVERHEAD POWER
	P-FENCE	P-FENCE
	E-CHAINLINK FENCE	E-CHAINLINK FENCE
	E-EASEMENT	E-EASEMENT
	P-EASEMENT	P-EASEMENT
	E-RIGHT OF WAY	E-RIGHT OF WAY
	P-LEASE AREA	P-LEASE AREA
	E-MAJOR CONTOUR	E-MAJOR CONTOUR
	P-MAJOR CONTOUR	P-MAJOR CONTOUR
	E-MINOR CONTOUR	E-MINOR CONTOUR
	P-MINOR CONTOUR	P-MINOR CONTOUR
	E-ROAD	E-ROAD
	P-ROAD	P-ROAD
	P-PROPERTY LINE	P-PROPERTY LINE



PARCEL INFORMATION	
OWNER:	EDWARD BOLICK
ZONING:	UNPLATTED
LAND USE:	-
PARCEL NUMBER:	25283500000023020
LATITUDE:	27.998103°
LONGITUDE:	-81.784558°

FIRM PANEL #:
12105C0510G

APPROXIMATE LOCATION
OF FLOOD ZONE LINE

PARENT PARCEL
EDWARD H. BOLICK TRUSTEE
PARCEL NUMBER: 25-28-35-000000-023020
OFFICIAL RECORD BOOK 10497, PAGE 1570

REQUIRED 86'-0\"±
RADIUS TOWER FALL
ZONE (FROM OUTER
EDGE OF TOWER)

PROPOSED 8'-0\"
SUNLIGHT-RESISTANT
VINYL FENCING
(SEE SHEET C-4)

PROPOSED 60'-0\" x 60'-0\"
FENCED COMPOUND

PROPOSED 10' WIDE
TYPE D LANDSCAPING
BUFFER

PROPOSED POWER
AND TELCO. SEE
SHEET E-3.

PROPOSED 12' WIDE
ACCESS
GATE

PROPOSED 145'-0\"
MONOPOLE TOWER

PROPOSED 10'
x 20' PARKING
SPACE

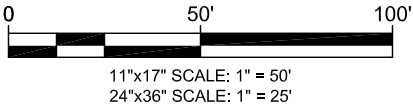
PROPOSED 30'-0\" WIDE
ACCESS/UTILITY CORRIDOR

PROPOSED 12' WIDE
ACCESS DRIVE
SEE SHEETS C-3.1 &
C-4.1 FOR DETAILS

EXISTING TREE
(TYP.)

PROPOSED 12'
CATTLE GATE.
(SEE SHEET C-4.1)

OVERALL SITE PLAN



VB
BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

T-Mobile

5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634

FDH INFRASTRUCTURE SERVICES

FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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SUBMITTALS				
REV	DATE	DESCRIPTION	BY	CHK'D
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FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140

SITE NAME:
HUNGRY HOWIE

T-MOBILE SITE ID:
A2B2227A

PARCEL:
25283500000023020

ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
SITE PLAN

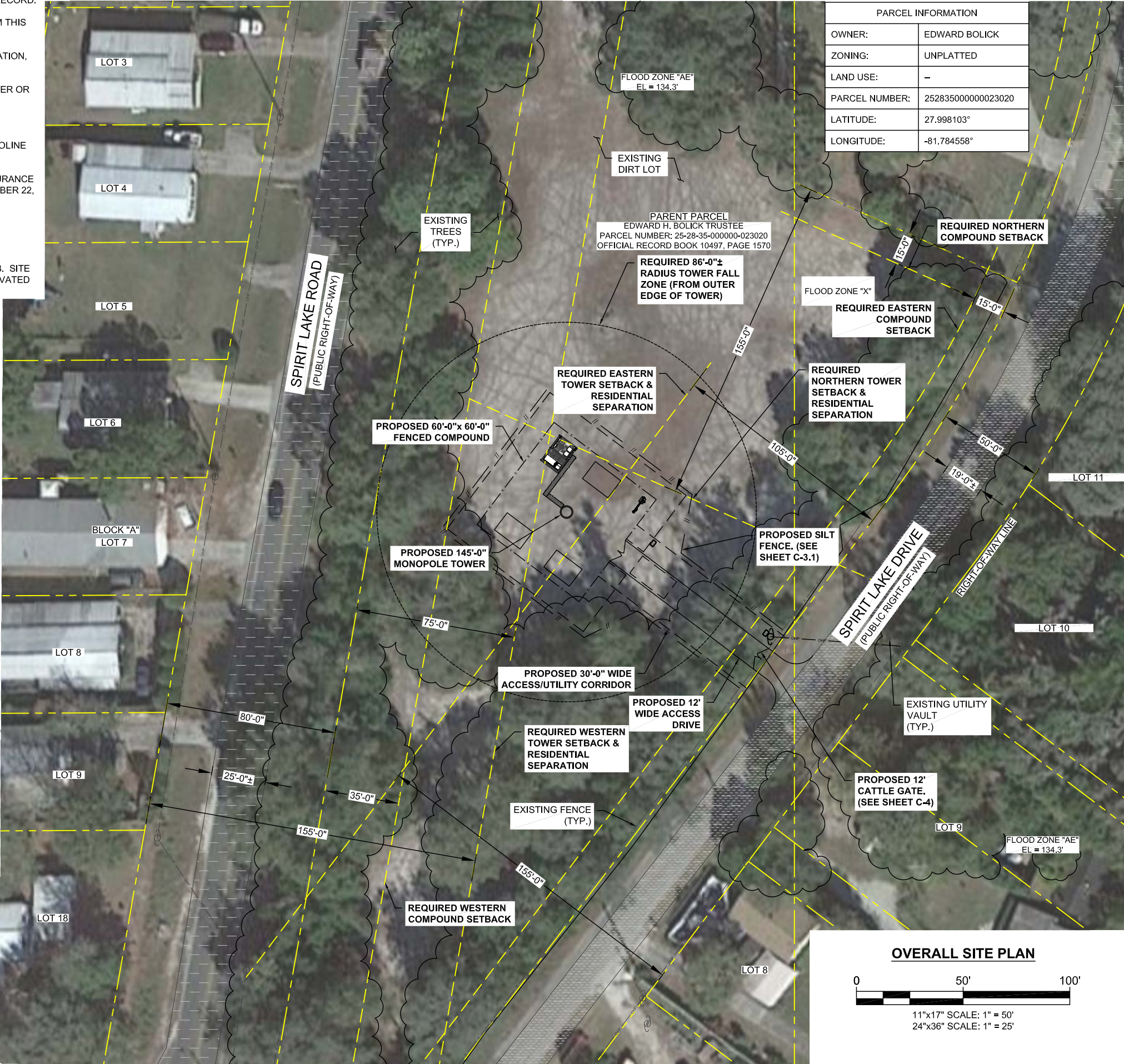
SHEET NUMBER:
C-1

NOTES:

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- 9.) EXISTING DRIVE WILL PROVIDE EMERGENCY ACCESS TO THE SITE.
- 10.) THIS SITE IS PARTIALLY LOCATED IN FLOOD ZONE AE 134.3, NAVD '88. SITE TOPOGRAPHY IS ALSO ON NAVD '88. ALL EQUIPMENT SHALL BE ELEVATED TO A MINIMUM ELEVATION OF 135.5'.

SETBACKS:			
ITEM	DIRECTION	REQUIRED	PROVIDED
TOWER	NORTH	155'-0"	181'-9"
	SOUTH	N/A	N/A
	EAST	105'-0"	113'-6"
COMPOUND	WEST	75'-0"	86'-0"
	NORTH	15'-0"	167'-8"
	SOUTH	15'-0"	414'-0"
	EAST	15'-0"	96'-9"
	WEST	35'-0"	62'-0"

LEGEND:		
— OHP — OHP —		E-OVERHEAD POWER
— X — X — X —		P-CHAINLINK FENCE
— X — X — X —		E-CHAINLINK FENCE
— — — — —		E-EASEMENT
— — — — —		P-EASEMENT
— ROW — ROW —		E-RIGHT OF WAY
— — — — —		P-LEASE AREA
— — — — —		E-MAJOR CONTOUR
— — — — —		E-MINOR CONTOUR
— — — — —		P-MAJOR CONTOUR
— — — — —		P-MINOR CONTOUR
— — — — —		E-ROAD
— — — — —		P-ROAD
— — — — —		P-PROPERTY LINE



VB
BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

T-Mobile

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TAMPA, FL 33634

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ENGINEERING INNOVATION

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FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140

SITE NAME:
HUNGRY HOWIE

T-MOBILE SITE ID:
A2B2227A

PARCEL:
25283500000023020

ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
AERIAL SITE PLAN

SHEET NUMBER:
C-1.1

- 1.) THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- 2.) NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
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PARCEL INFORMATION	
OWNER:	EDWARD BOLICK
ZONING:	UNPLATTED
LAND USE:	—
PARCEL NUMBER:	252835000000023020
LATITUDE:	27.998103°
LONGITUDE:	-81.784558°



VB
BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

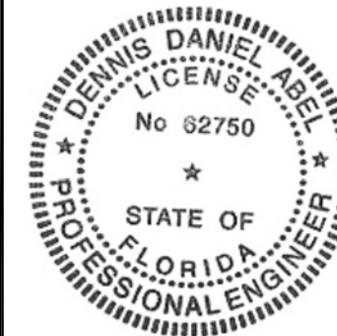


5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634



FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIEN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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[illegible]

FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENSE NO. 62750

PR-008353

US-FL-7140

HUNGRY HOWIE

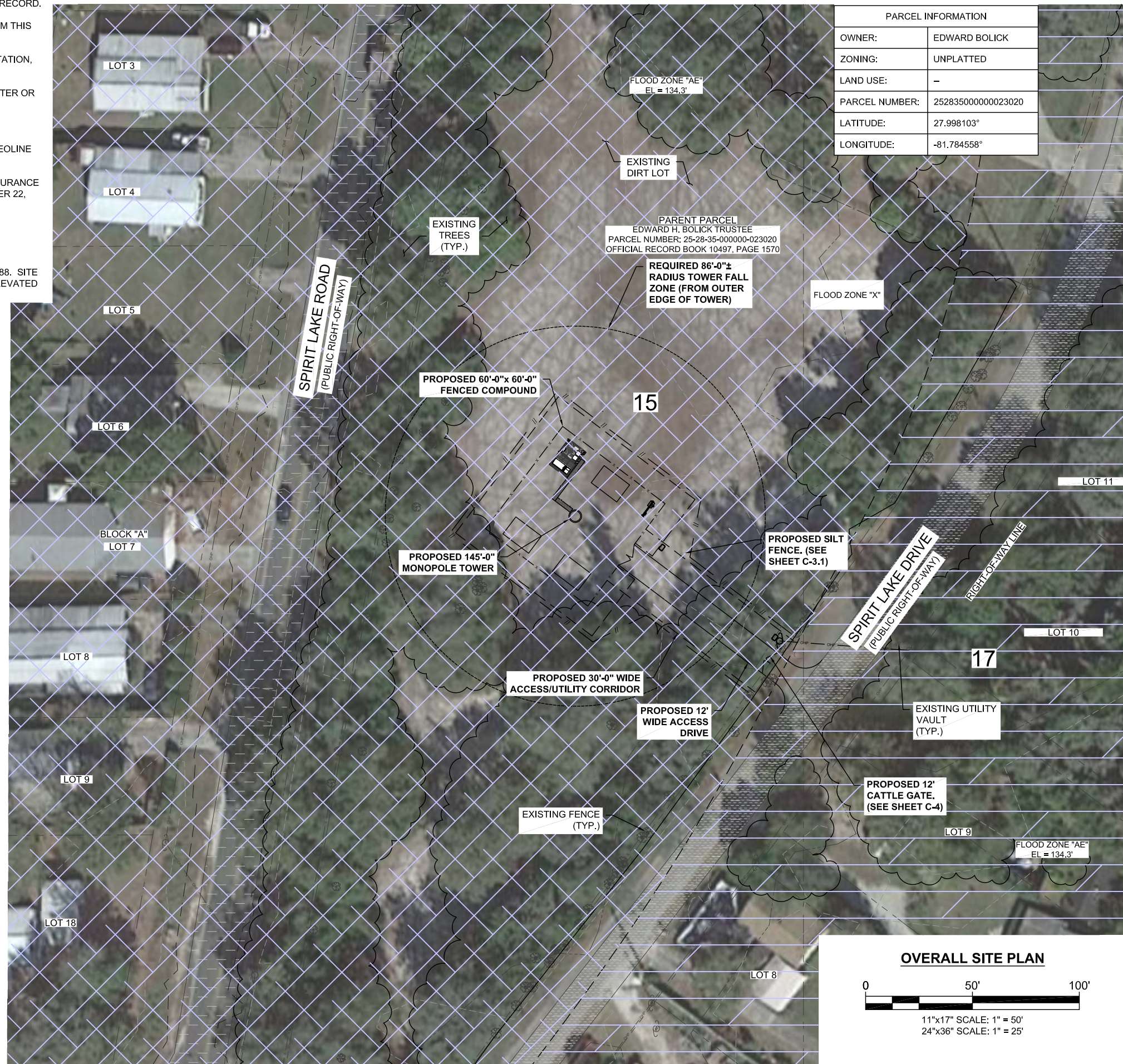
A2B2227A

PARCEL:
252835000000023020

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SOIL SITE PLAN

C-1.2

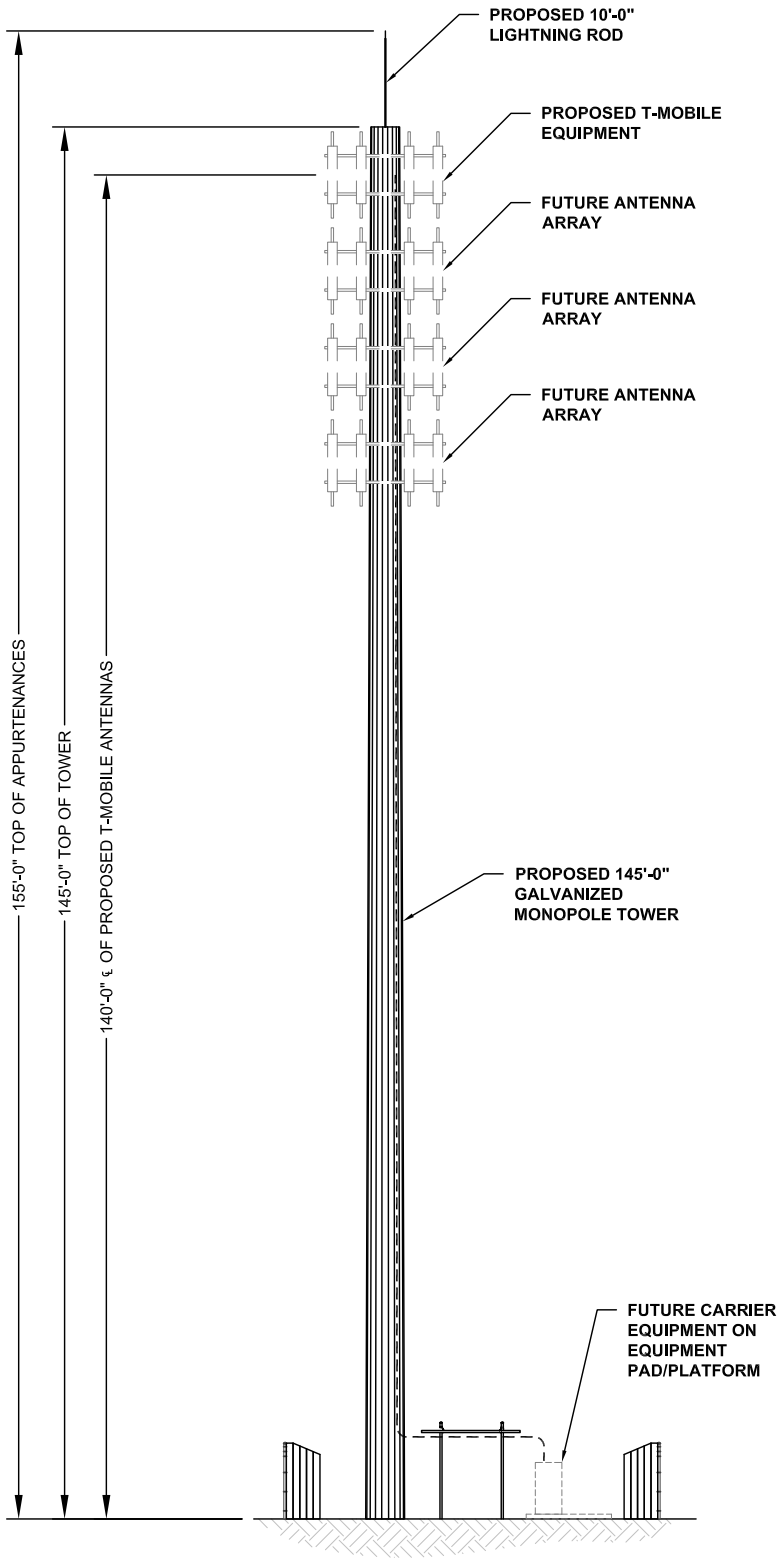


 15 - TAVARES FINE SAND,
0 TO 5 PERCENT SLOPES



	E-OVERHEAD POWER
	P-CHAINLINK FENCE
	E-CHAINLINK FENCE
	E-EASEMENT
	P-EASEMENT
	E-RIGHT OF WAY
	P-LEASE AREA
	E-ROAD
	P-ROAD
	P-PROPERTY LINE

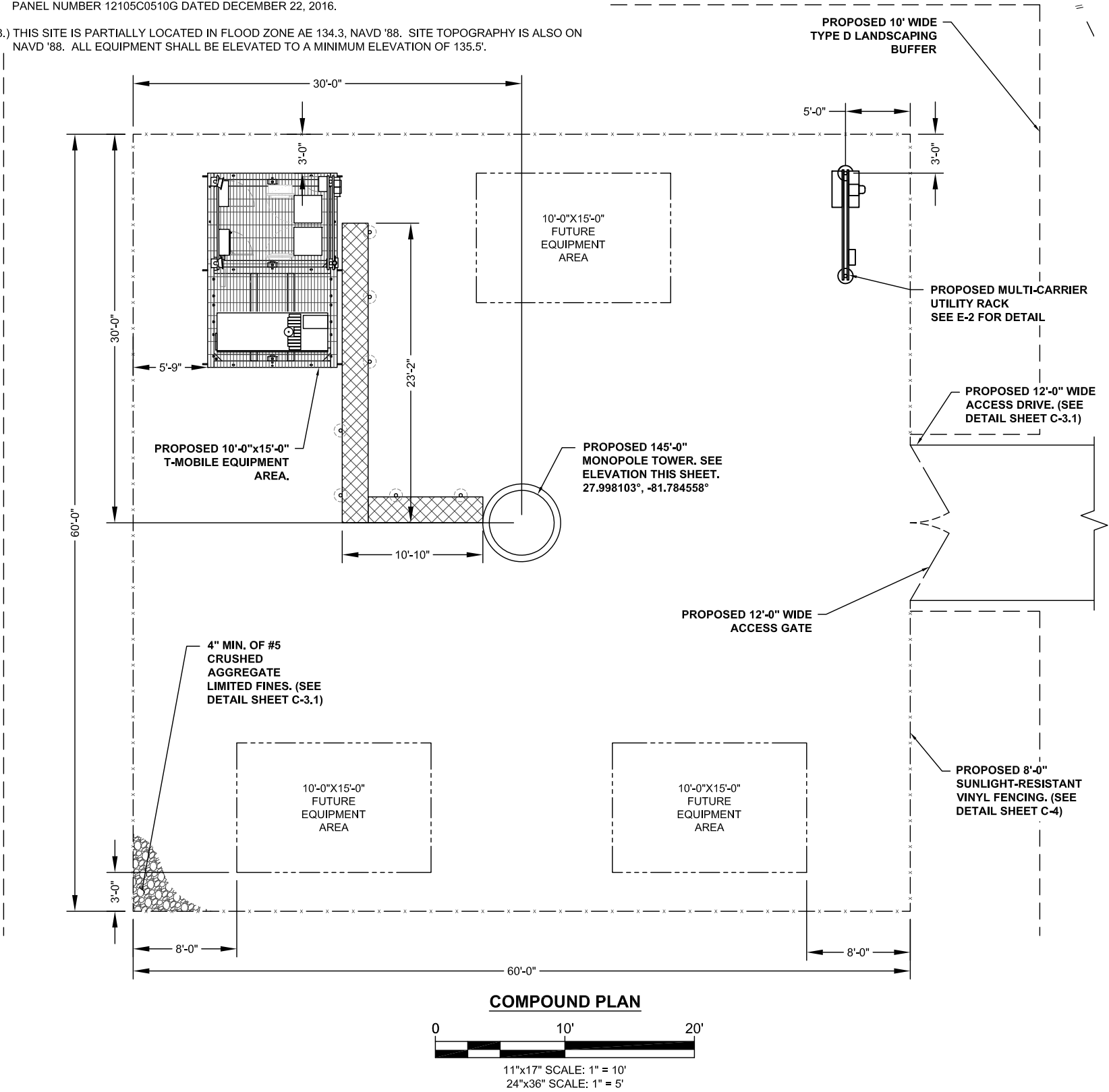
NOTE:
1.) PROPOSED TOWER WILL BE THE STANDARD MANUFACTORY PRODUCED GRAY



TOWER ELEVATION
11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

- NOTES:
- 1.) THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
 - 2.) NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
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PARCEL INFORMATION	
OWNER:	EDWARD BOLICK
ZONING:	UNPLATTED
LAND USE:	-
PARCEL NUMBER:	25283500000023020
LATITUDE:	27.998103°
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VB
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BOCA RATON, FL 33487

T-Mobile
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LICENSE
No 62750
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FDH INFRASTRUCTURE SERVICES, LLC
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STATE LICENNSE NO. 62750

FDH JOB NUMBER:
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SITE ID:
US-FL-7140

SITE NAME:
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T-MOBILE SITE ID:
A2B2227A

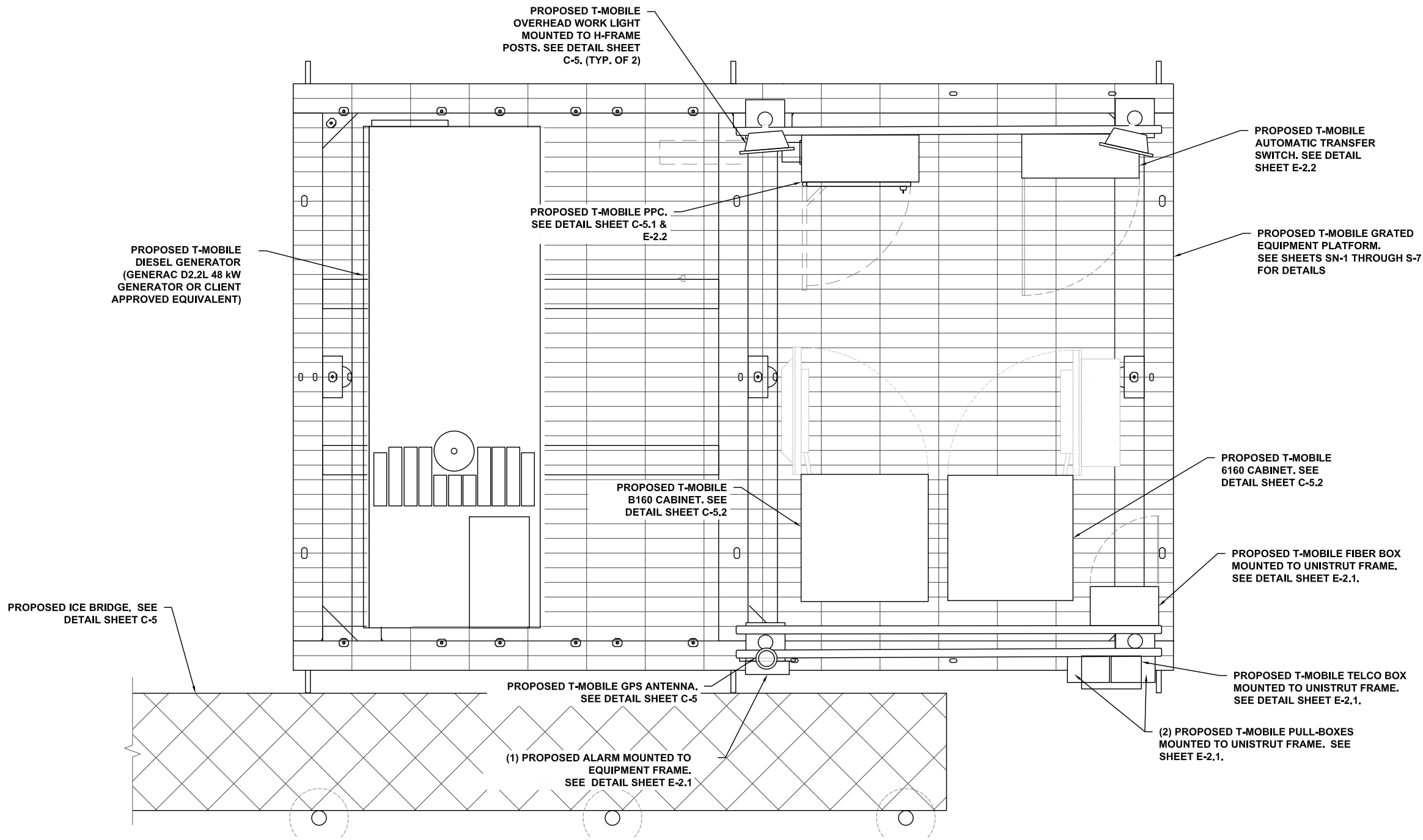
PARCEL:
252835000000023020

ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

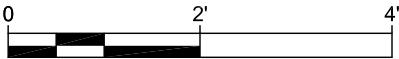
SHEET TITLE:
COMPOUND DETAILS

SHEET NUMBER:
C-2

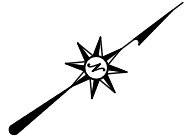
NOTE:
THE PLATFORM DETAILS ON THIS SHEET ARE FOR SCHEMATIC
PURPOSES ONLY. REFER TO SHEETS SN-1 THROUGH S-7 FOR
ACTUAL PLATFORM DETAILS..



T-MOBILE EQUIPMENT LAYOUT



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



VB
BTS II, LLC
750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

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TAMPA, FL 33634

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FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140

SITE NAME:
HUNGRY HOWIE

T-MOBILE SITE ID:
A2B2227A

PARCEL:
252835000000023020

ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
T-MOBILE EQUIPMENT LAYOUT

SHEET NUMBER:
C-2.1

EROSION CONTROL, DRAINAGE, AND GRADING NOTES:

- 1.) THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS FOR EROSION AND SEDIMENT CONTROL FOR THE AGENCY(IES) HAVING JURISDICTION OVER CLEARING AND GRADING OPERATIONS. AS A MINIMUM, ALL WORK SHALL COMPLY WITH THE LATEST PROVISIONS OF THE INTERNATIONAL BUILDING CODE. UTILIZE BEST MANAGEMENT PRACTICES (BMP) PRESCRIBED BY IBD TO PREVENT EROSION OF ON-SITE SOILS AND TRANSPORT OF THESE SOILS TO DOWNSTREAM PROPERTIES OR WATER BODIES. SPECIFIC BMP'S TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, A TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE AT THE BASE OF FILL SLOPES AND AROUND STOCKPILE AREAS, CHECK DAMS IN THE FLOW LINE OF SWALES AND DITCHES, AND TEMPORARY AND PERMANENT SEEDING.
- 2.) CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS AS NECESSARY DURING CONSTRUCTION ACTIVITIES TO ENSURE THE PROTECTION OF ADJACENT PROPERTIES AND WATERWAYS. EXCEPT AS MAY BE REQUIRED TO INSTALL THE MEASURES, NO GRADING SHALL BE PERFORMED UNTIL THE TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE AND OTHER APPROPRIATE MEASURES ARE IN PLACE.
- 3.) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
- A. SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- B. FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4.) THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND CLEARING ANY DEBRIS AND SEDIMENT CAUSED BY CONSTRUCTION.
- 5.) ALL EROSION CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION.

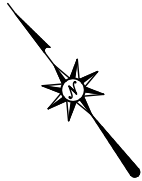
STORMWATER MANAGEMENT SUMMARY:

1. POST-DEVELOPED STORMWATER MANAGEMENT STRATEGY INVOLVES STORAGE OF RUNOFF WITHIN AGGREGATE VOID SPACE BENEATH THE ACCESS DRIVE AND COMPOUND, WITH INFILTRATION INTO THE NATURAL SOILS BENEATH THESE FEATURES.
2. TOTAL SITE AREA = 0.213 ACRES
3. PRE-DEVELOPED CURVE NUMBER = 68
4. POST-DEVELOPED COMPOSITE CURVE NUMBER = 66
5. SUMMARY OF DISCHARGES (CFS), 24-HOUR DURATION STORM:

RETURN PERIOD	PRE-DEVELOPED	POST-DEVELOPED
1-YEAR	0.17	0.00
2-YEAR	0.25	0.00
10-YEAR	0.51	0.00
25-YEAR	0.74	0.00
50-YEAR	0.94	0.00
100-YEAR	1.19	0.00

SPECIAL GRADING NOTE:

NOTE THE REQUIREMENTS FOR FINISHED GRADE TO MATCH EXISTING GRADE. COMPENSATORY EXCAVATION FOR FLOOD STORAGE MAY BE REQUIRED IF AVERAGE FINISHED GRADES EXCEED AVERAGE EXISTING GRADES. MAINTAIN AN APPROXIMATE FLAT GRADE FOR THE COMPOUND AND ACCESS DRIVE, REMOVING EXCESS MATERIAL FROM THE SITE AS NEEDED TO ALLOW FOR PLACEMENT OF AGGREGATE FOR THE COMPOUND AND ACCESS DRIVE WITHOUT EXCEEDING EXISTING GRADE AVERAGE ELEVATIONS. EXISTING GRADES ARE APPROXIMATELY 133.4 TO 134.4. THE BASE FLOOD ELEVATION IS 134.3, AND THE DESIGN FLOOD PROTECTION ELEVATION IS 135.5. PLATFORM WILL BE USED TO ACHIEVE FLOOD PROTECTION ELEVATION OF EQUIPMENT.



VB
BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

T-Mobile

5901 BENJAMIN CENTER DR.
SUITE 110 A-B
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FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

25283500000023020

ADDRESS:

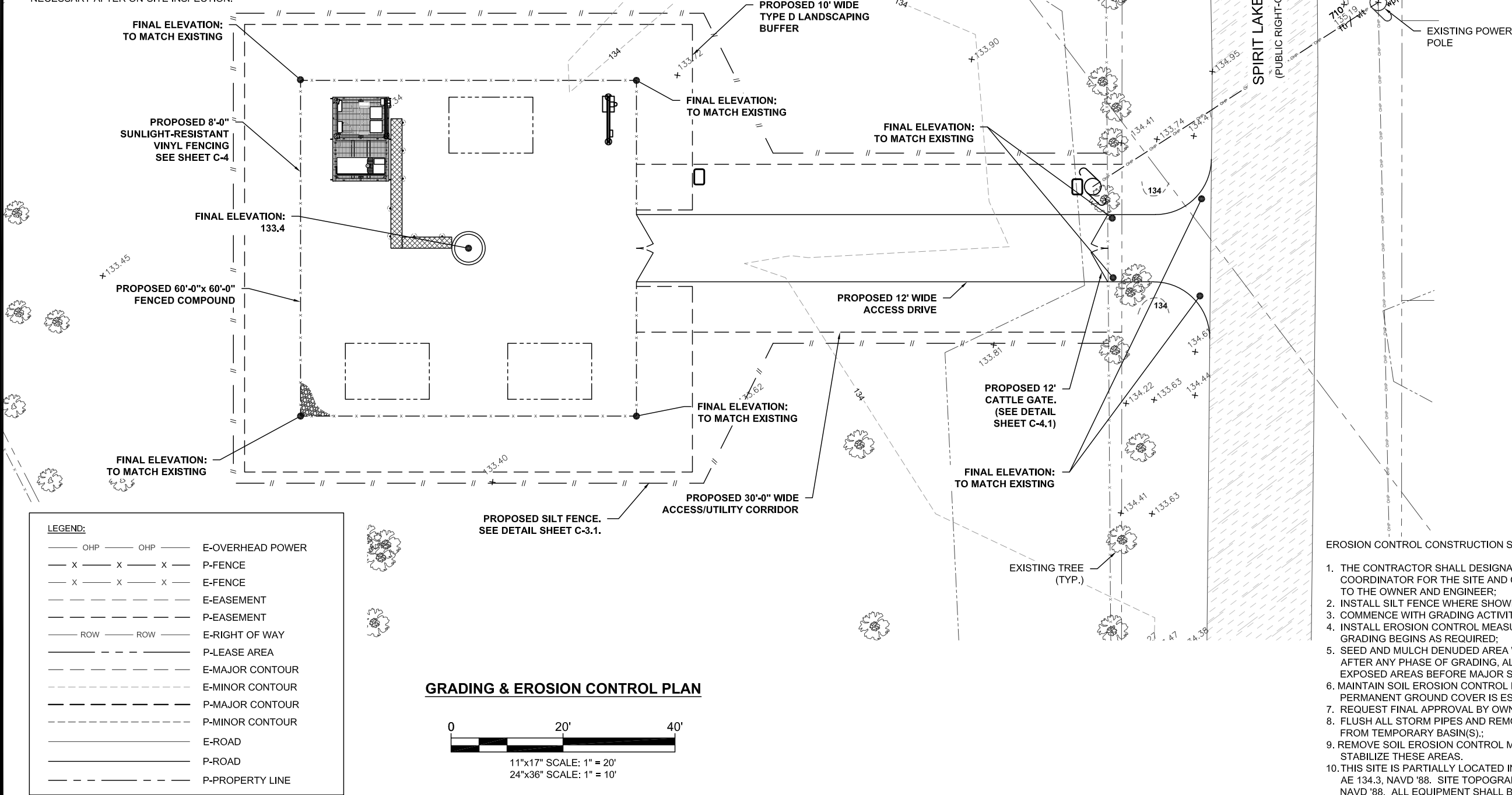
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

GRADING & EROSION
CONTROL PLAN

SHEET NUMBER:

C-3

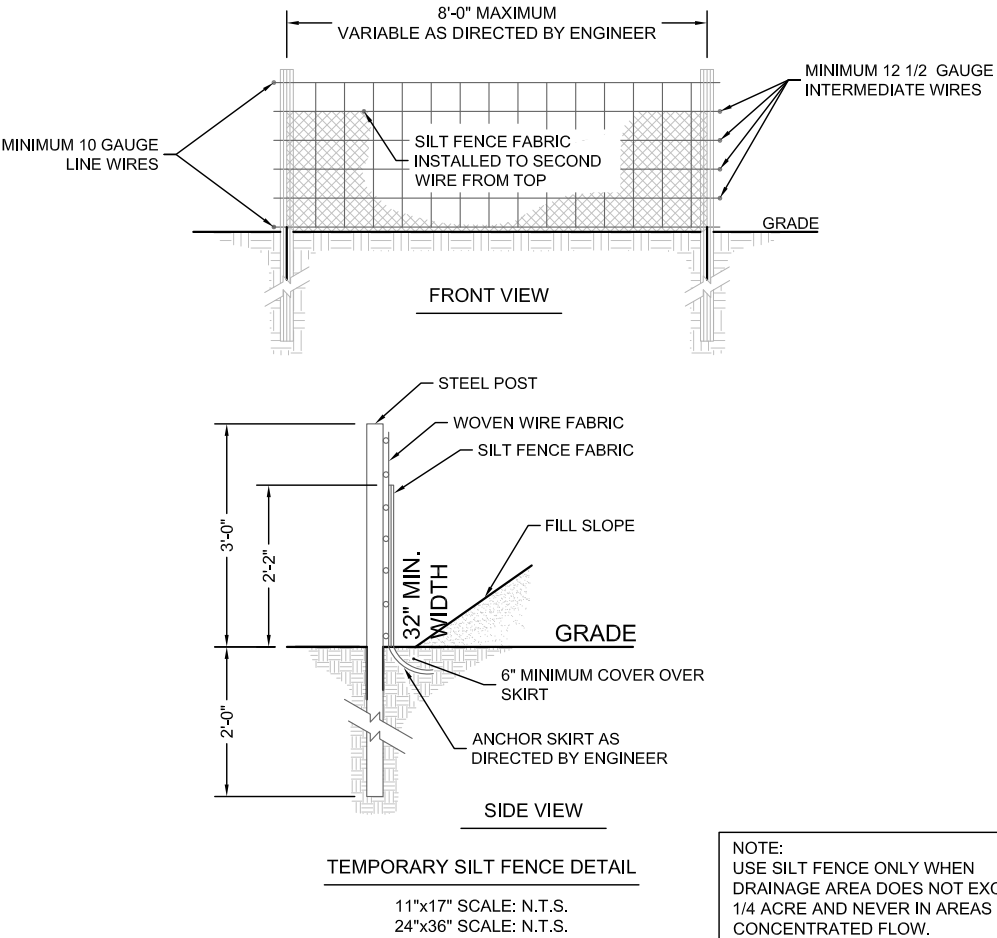
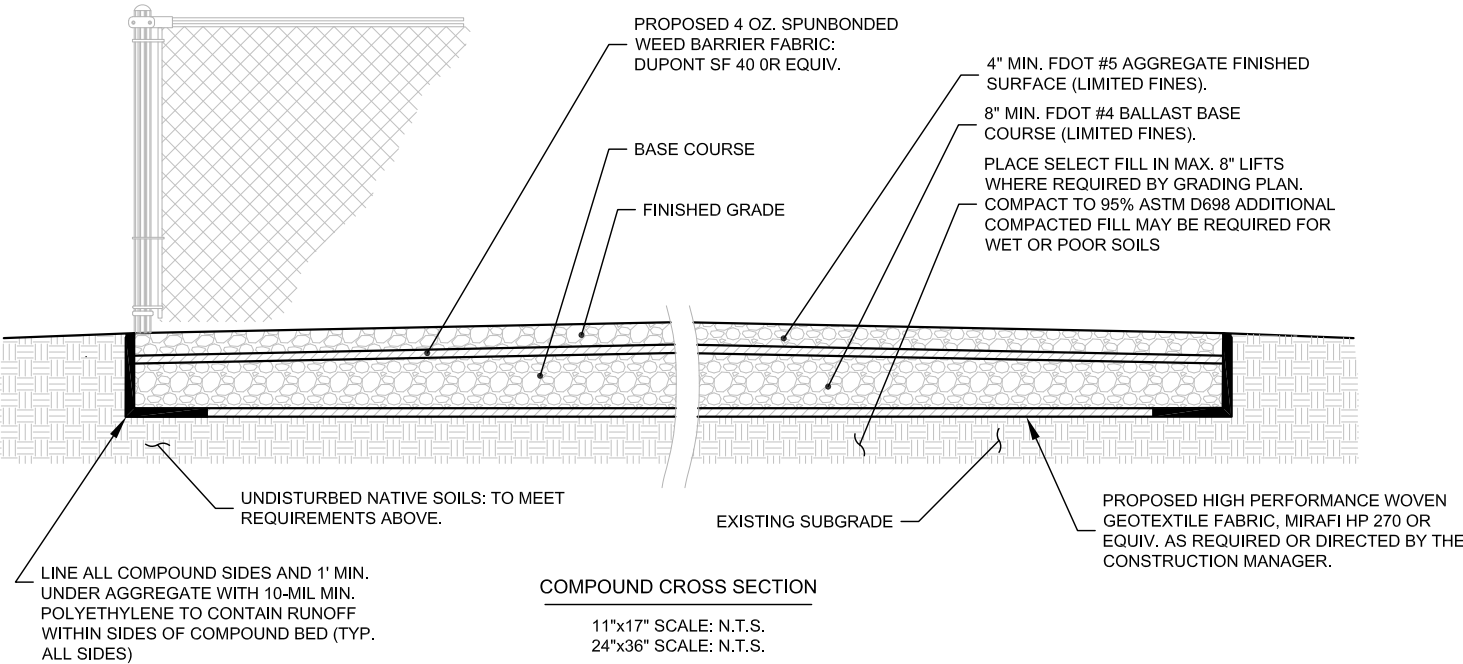


EROSION CONTROL CONSTRUCTION SEQUENCE:

1. THE CONTRACTOR SHALL DESIGNATE AN ESC COORDINATOR FOR THE SITE AND COMMUNICATE TO THE OWNER AND ENGINEER;
2. INSTALL SILT FENCE WHERE SHOWN;
3. COMMENCE WITH GRADING ACTIVITIES;
4. INSTALL EROSION CONTROL MEASURES AFTER GRADING BEGINS AS REQUIRED;
5. SEED AND MULCH DENUDED AREA WITHIN 7 DAYS AFTER ANY PHASE OF GRADING, ALSO COVER ALL EXPOSED AREAS BEFORE MAJOR STORM EVENTS;
6. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED;
7. REQUEST FINAL APPROVAL BY OWNER;
8. FLUSH ALL STORM PIPES AND REMOVE SEDIMENT FROM TEMPORARY BASIN(S).;
9. REMOVE SOIL EROSION CONTROL MEASURES AND STABILIZE THESE AREAS.
10. THIS SITE IS PARTIALLY LOCATED IN FLOOD ZONE AE 134.3, NAVD '88. SITE TOPOGRAPHY IS ALSO ON NAVD '88. ALL EQUIPMENT SHALL BE ELEVATED TO A MINIMUM ELEVATION OF 135.5'.

NOTES:

1. REMOVE ALL TOPSOIL, ORGANIC MATERIAL, AND WET OR POOR SOILS FROM PROPOSED COMPOUND AREA. CONTRACTOR TO REVIEW SITE CONDITIONS AND CONSULT GEOTECHNICAL REPORT FOR ANTICIPATED DEPTH OF SOILS THAT WILL REQUIRE REMOVAL IF POOR SOILS ARE ENCOUNTERED AT A DEPTH OF MORE THAN 12", CONTACT CONSTRUCTION MANAGER FOR GUIDANCE.
2. SUBGRADE TO BE COMPACTED TO 95% ASTM D698 AND VERIFIED BY PROOF-ROLL OR GEOTECHNICAL RECOMMENDATIONS.
3. IF THE GEOTECHNICAL REPORT PERMITS, USE ONSITE SOILS FOR SELECT FILL PROVIDED IT IS AVAILABLE AND FREE OF DELETERIOUS MATERIALS AND ORGANICS.
4. SEASONAL HIGH WATER TABLE MAY BE AT EXISTING GROUND SURFACE

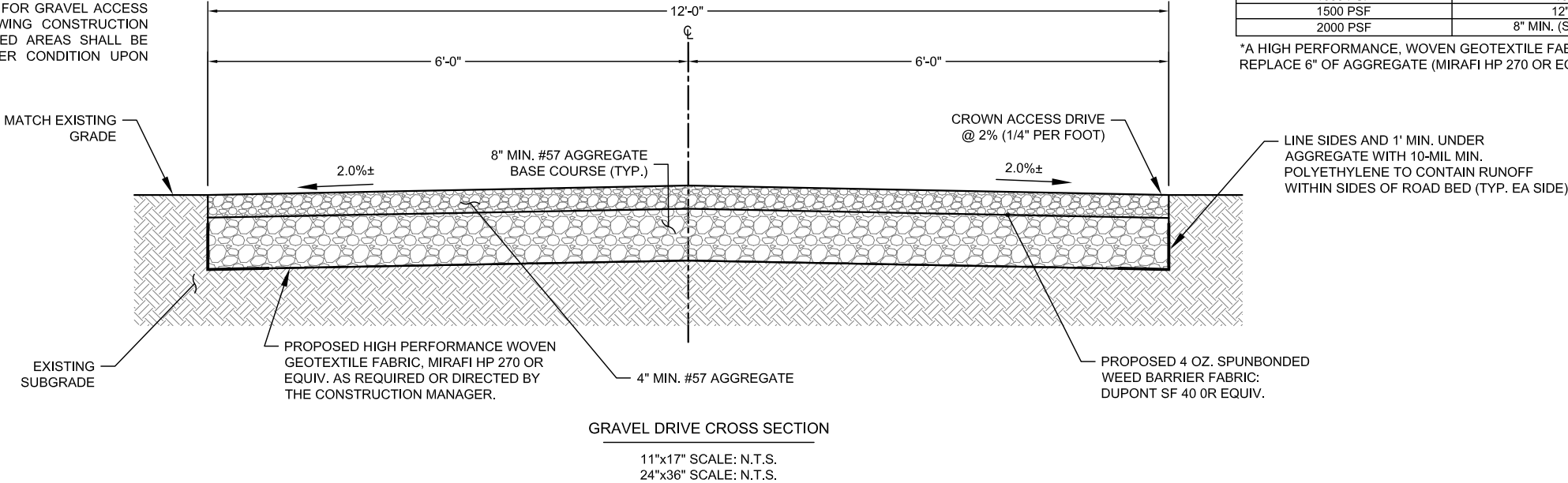


NOTES:

1. REMOVE ALL TOPSOIL, ORGANIC MATERIAL, AND WET OR POOR SOILS ALONG ACCESS DRIVE. CONTRACTOR TO REVIEW SITE CONDITIONS AND CONSULT GEOTECHNICAL REPORT FOR ANTICIPATED DEPTH OF SOILS THAT WILL REQUIRE REMOVAL. IF POOR SOILS ARE ENCOUNTERED AT A DEPTH OF MORE THAN 12", CONTACT CONSTRUCTION MANAGER FOR GUIDANCE.
2. SUBGRADE TO BE COMPACTED TO 95% ASTM D698 DRY DENSITY AND VERIFIED BY PROOF-ROLL OR GEOTECHNICAL RECOMMENDATIONS.
3. CONSULT GRADING PLAN OR SITE PLAN FOR FINAL SITE GRADES.
4. CRUSH AND RUN AGGREGATE CANNOT BE USED.

RESTORATION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR GRAVEL ACCESS DRIVE REPAIR AND RESTORATION FOLLOWING CONSTRUCTION COMPLETION. ANY DISTURBED OR DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION UPON COMPLETION OF WORK.



NOTE:

FOR FLOODPLAIN STORAGE COMPLIANCE, ALL MATERIAL EXCAVATED FOR CONSTRUCTION OF THE COMPOUND, ACCESS DRIVE AND RETENTION BASINS SHALL BE REMOVED AND DISPOSED OF OFF SITE. PLACEMENT OF 10-MIL POLYETHYLENE AROUND PERIMETER AND UP TO SURFACE IS CRITICAL TO PROPER STORMWATER MANAGEMENT PERFORMANCE.

GRAVEL DRIVE REQUIREMENTS:

THICKNESS OF GRAVEL DRIVE BASE COURSE TO BE DETERMINED BASED ON THE EXISTING SOIL BEARING CAPACITY (PER UFC DESIGN RECOMMENDATIONS):

IF POOR OR WET SOILS ARE PRESENT BELOW BASE COURSE, CONTRACTOR TO INSTALL 6" MIN. WELL-GRADED GRAVEL/SAND SUB-BASE TO FACILITATE ADEQUATE DRAINAGE AND STABILITY.

FOR ACCESS DRIVE SLOPES GREATER THAN 10%, CONTRACTOR TO USE MIRAFI HP 270 OR EQUIVALENT GEOTEXTILE FABRIC.

BEARING CAPACITY	REQ'D AGGREGATE THICKNESS
1000 PSF	*16" MIN.
1500 PSF	12" MIN.
2000 PSF	8" MIN. (SEE DETAIL)

*A HIGH PERFORMANCE, WOVEN GEOTEXTILE FABRIC MAY BE USED TO REPLACE 6" OF AGGREGATE (MIRAFI HP 270 OR EQUIVALENT)

VB
BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
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5901 BENJAMIN CENTER DR.
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FDH INFRASTRUCTURE SERVICES

FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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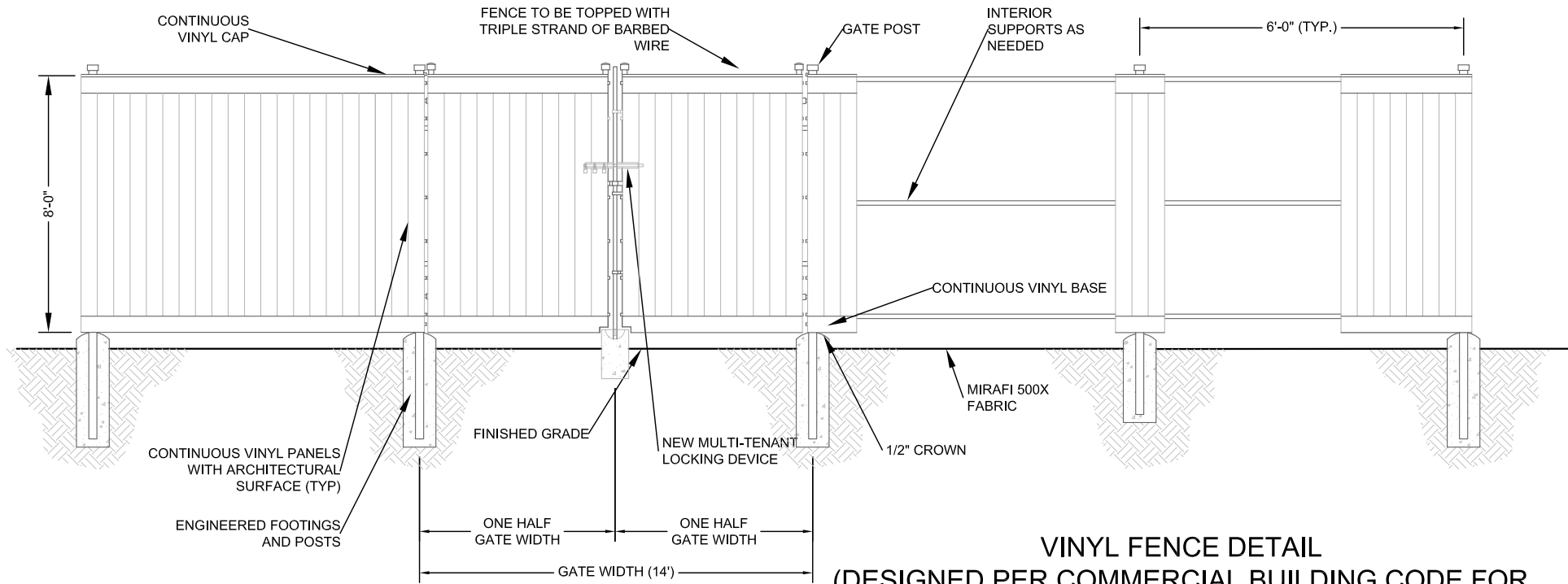
FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140
SITE NAME:
HUNGRY HOWIE
T-MOBILE SITE ID:
A2B2227A
PARCEL:
252835000000023020
ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
GRADING DETAILS

SHEET NUMBER:
C-3.1



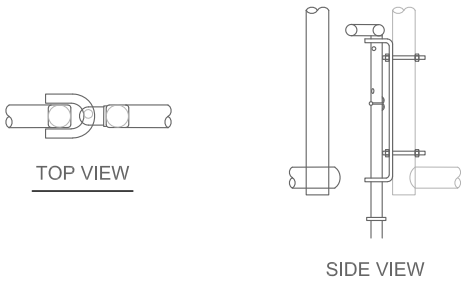
VINYL FENCE DETAIL
(DESIGNED PER COMMERCIAL BUILDING CODE FOR
HURRICANE FORCE WIND-RESISTANCE)

FENCING DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

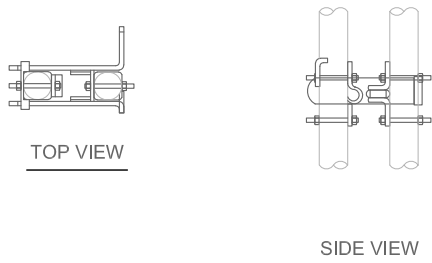
NOTES:

1. ALL FENCING TO BE INSTALLED PER ASTM F-567. ALL SWING GATES TO BE INSTALLED PER ASTM F-900.
2. BARBED WIRE PERMIT REQUIRED SHALL BE COMPLETED IF LOCAL ORDINANCE REQUIRES.
3. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE GALVANIZED (HOT DIP, ASTM A120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDINGS SHALL BE COATED WITH (3) COATS OF GOLD GALV. (OR EQUAL). ALL OPEN POSTS SHALL HAVE END-CAPS.
4. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC USING GALVANIZED HOG-RING WIRE.
5. MUSHROOM ANCHOR AND PLUNGER REQUIRED FOR GATE. GENERAL CONTRACTOR RESPONSIBLE FOR GATE LOCK.



DROP ROD ASSEMBLY DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



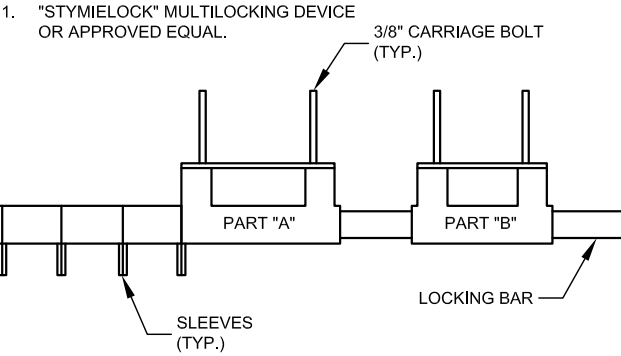
LATCH ASSEMBLY DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

MULTILOCK INSTALLATION:

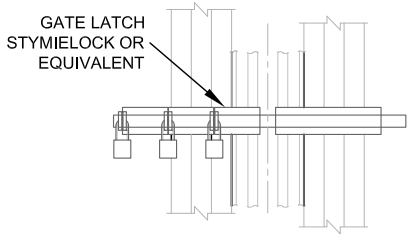
1. DRILL 3/8" HOLES IN THE GATE LEAF USING THE GATE DIMENSIONS PROVIDED.
2. SLIDE THE CARRIAGE BOLTS IN THE SLOTS ON THE BACK OF PART "B" AND PUSH THE BOLTS THROUGH THE HOLES DRILLED IN THE GATE FIGURE. PUT THE NUT AND THE LOCKNUT ON AND TIGHTEN AND CUT THE EXCESS BOLT OFF. DO THE SAME WITH PART "A".
3. ADD THE NUMBER OF SLEEVES NEEDED FOR THE NUMBER OF LOCKS AND SLIDE THE LOCKING BAR INTO PLACE THROUGH BOTH PART "A" AND PART "B". NOW INSTALL THE LOCKS.
4. IF THE GATE HAS NO CENTER BAR IN THE GATE LEAF YOU MAY NEED TO MOUNT THE STYMIELOCK VERTICALLY USING THE SAME DIMENSIONS GIVEN ON THE GATE FACE.
5. VERTICAL APPLICATION MAY ALSO BE USED ON SLIDING GATES WITH MULTIPLE LOCKS.

GATE LOCK ASSEMBLY:



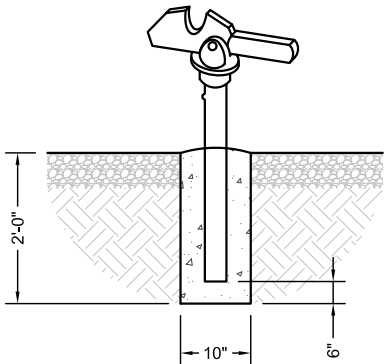
GATE LOCK ASSEMBLY DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



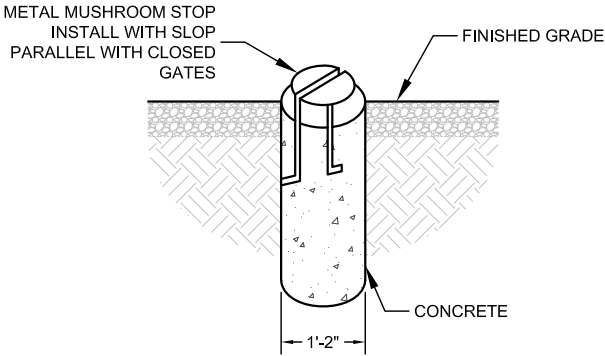
MULTI-TENANT LOCKING DEVICE

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



GATE KEEPER DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



MUSHROOM STOP DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

VB
BTS II, LLC
750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

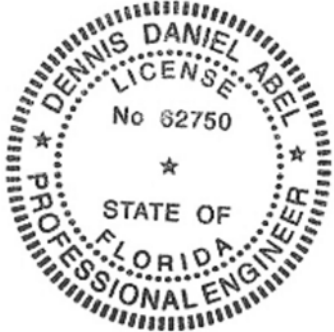
T-Mobile
5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634

FDH INFRASTRUCTURE SERVICES
ENGINEERING INNOVATION
FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

252835000000023020

ADDRESS:

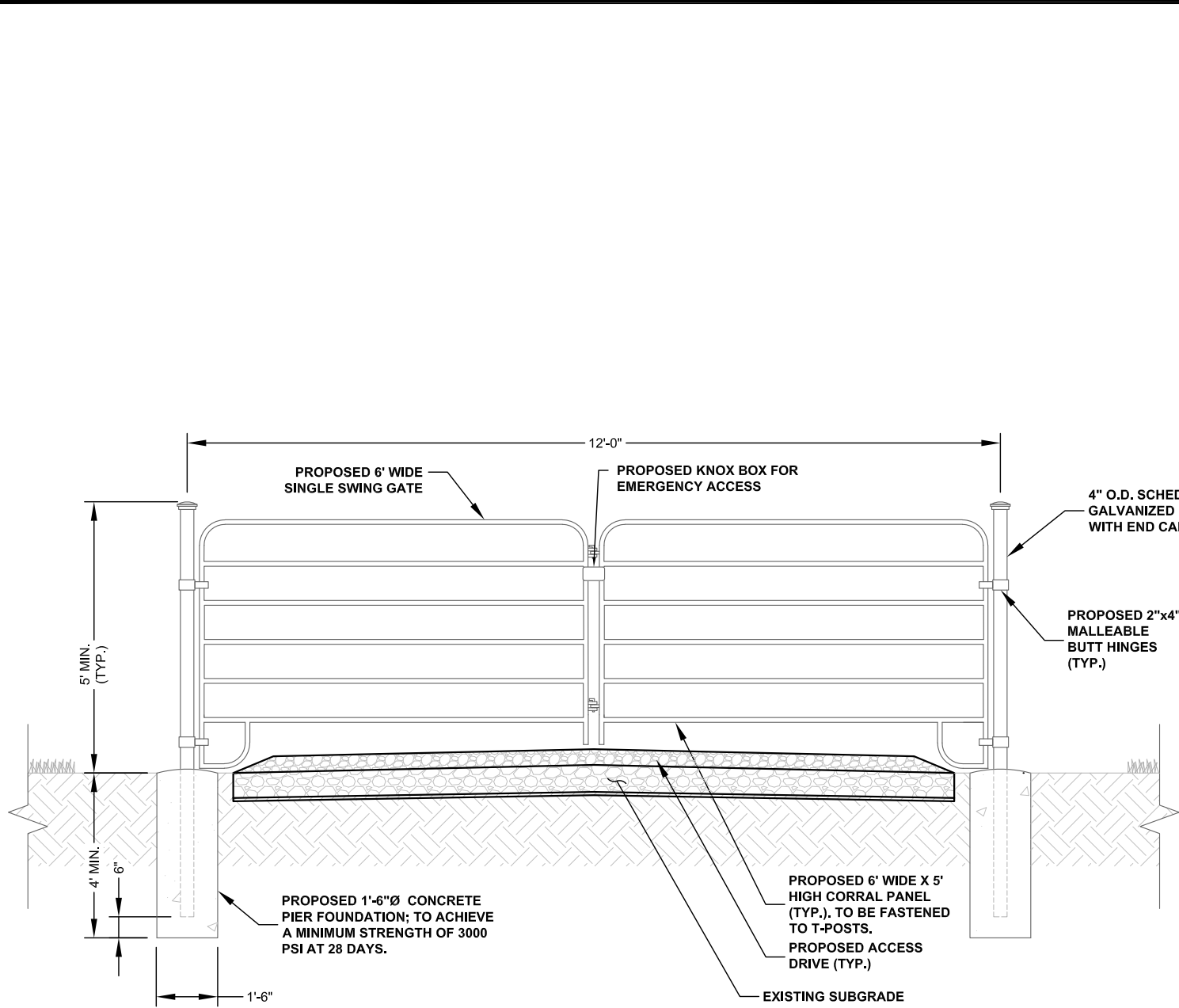
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

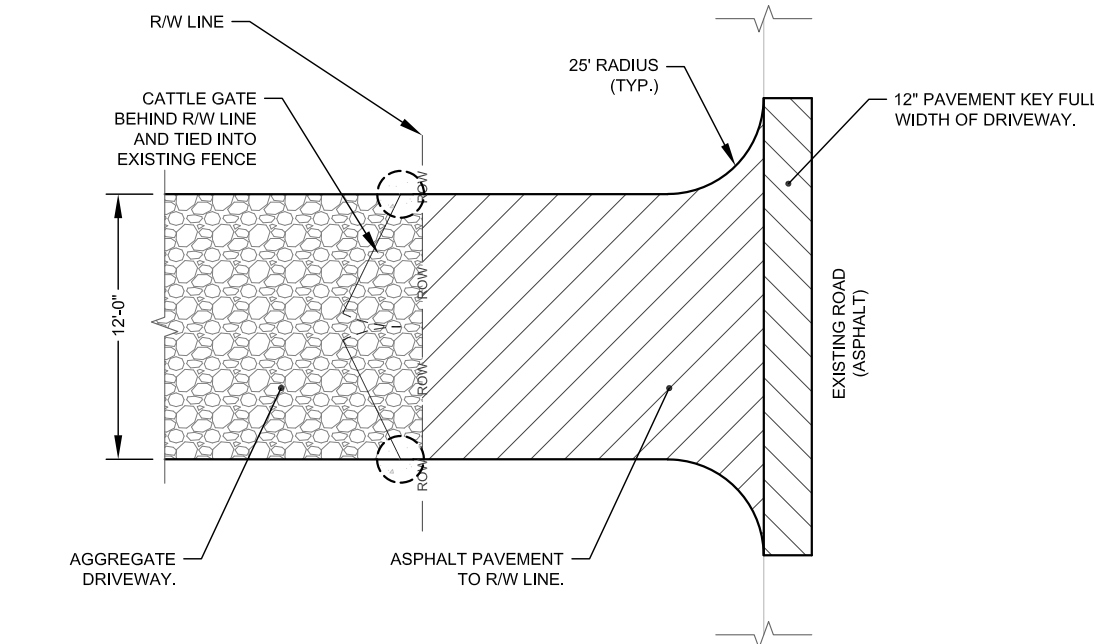
FENCE DETAILS

SHEET NUMBER:

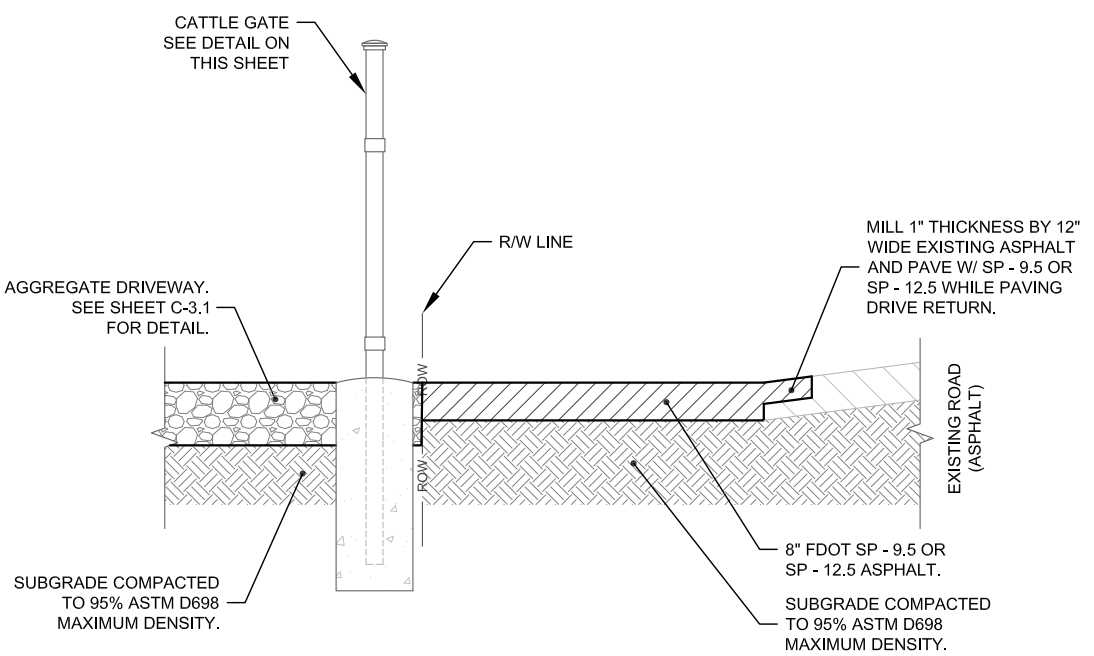
C-4



DOUBLE SWING CATTLE GATE DETAIL
11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



DRIVEWAY PLAN VIEW
11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



DRIVEWAY PROFILE
11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

VB
BTS II, LLC
750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634

FDH INFRASTRUCTURE SERVICES, LLC
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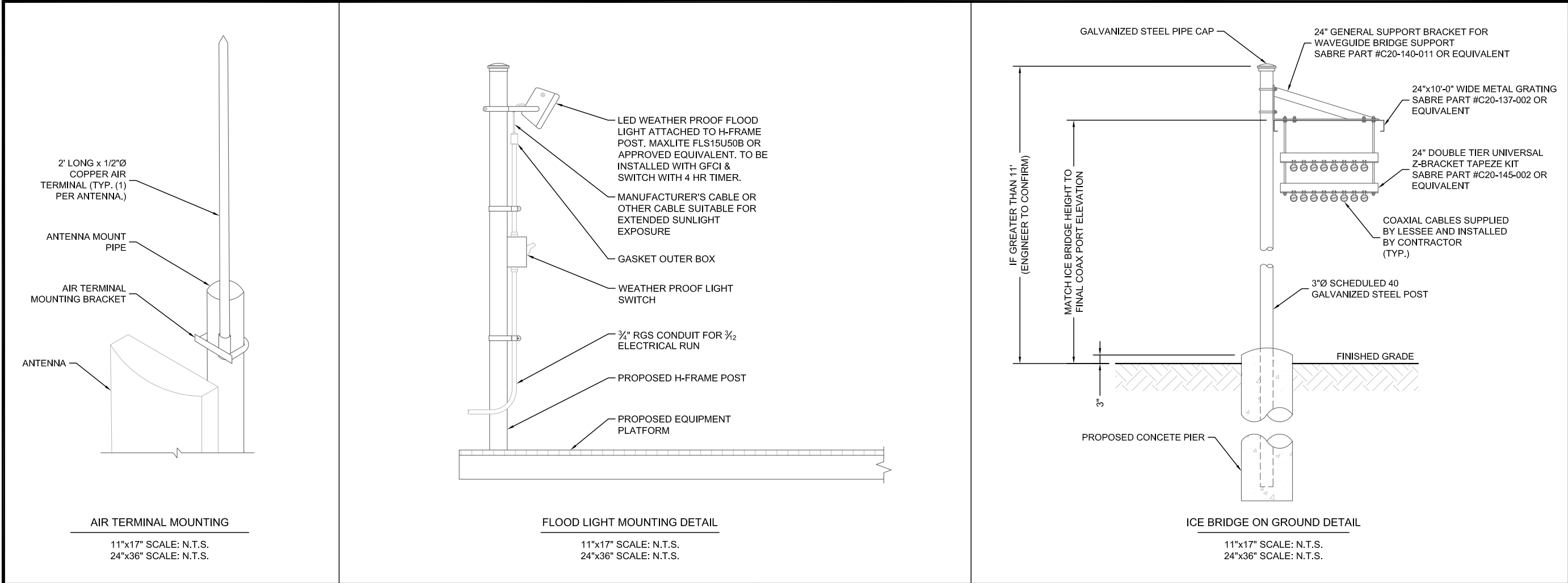
FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140
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HUNGRY HOWIE
T-MOBILE SITE ID:
A2B2227A
PARCEL:
252835000000023020
ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
CATTLE GATE & DRIVE WAY
DETAILS

SHEET NUMBER:
C-4.1



VB
BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

T-Mobile

5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634

FDH

INFRASTRUCTURE SERVICES

ENGINEERING INNOVATION

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6521 MERIDIAN DRIVE RALEIGH, NC 27616
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REV	DATE	DESCRIPTION	BY	CHK'D
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DENNIS DANIEL ABEL

LICENSE

No 62750

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

25283500000023020

ADDRESS:

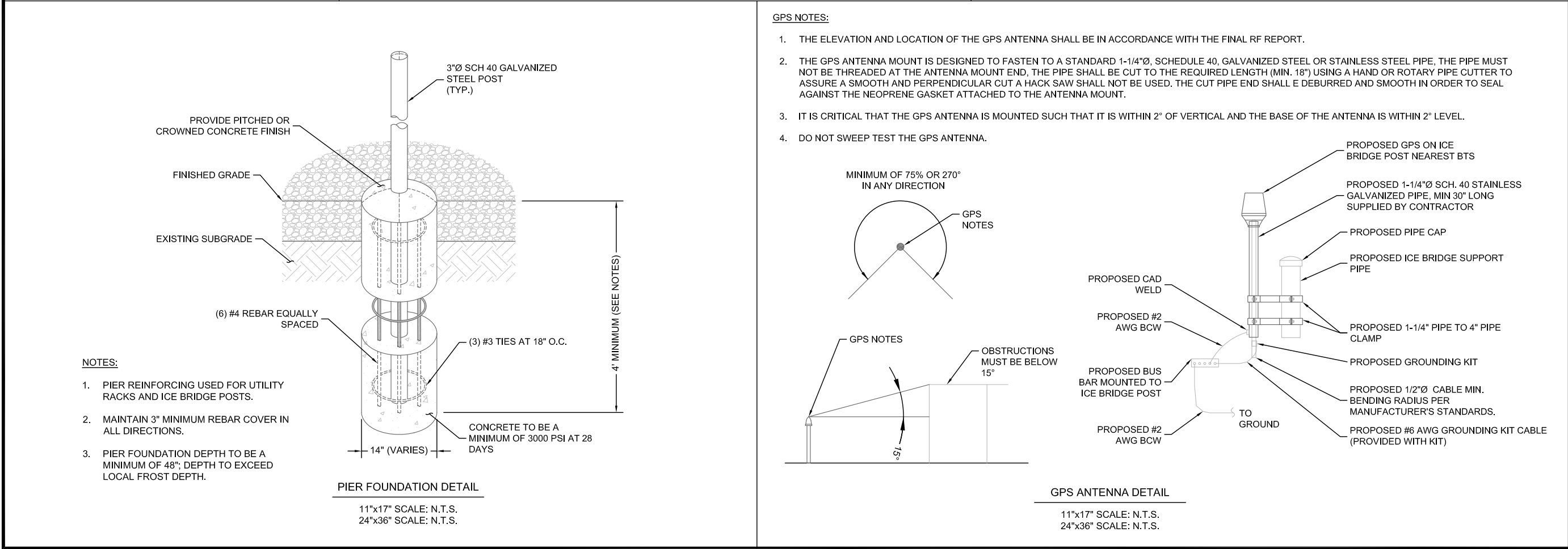
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

PIER, GPS, & GROUND
CONSTRUCTION DETAILS

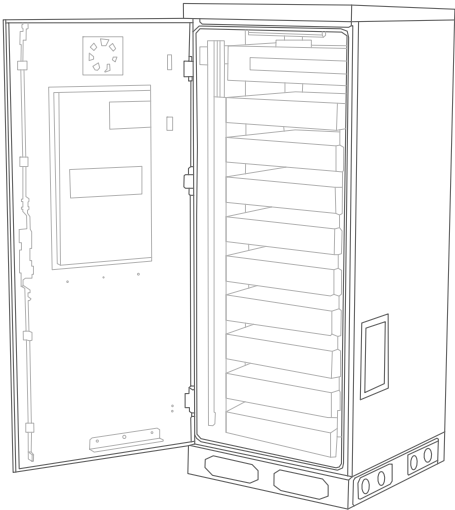
SHEET NUMBER:

C-5



- NOTE:
- CONTRACTOR TO VERIFY MOUNTING SPECIFICATIONS WITH T-MOBILE PRIOR TO CONSTRUCTION.
 - ANCHOR BOLTS TO BE INSTALLED A MINIMUM OF 6" FROM EDGE OF CONCRETE PAD AND MIN. 4" EMBEDMENT.

ERICSSON P/N B160



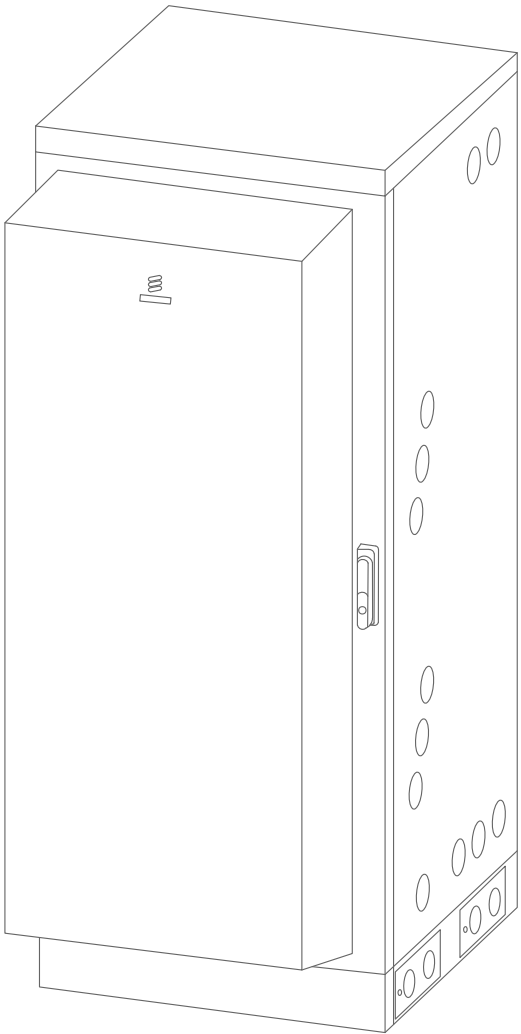
B160 BATTERY CABINET DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

EQUIPMENT SPECIFICATIONS	
HEIGHT	63"
WIDTH	25.6"
DEPTH	27.6"
WEIGHT	295lbs

- NOTE:
- CONTRACTOR TO VERIFY MOUNTING SPECIFICATIONS WITH T-MOBILE PRIOR TO CONSTRUCTION.
 - ANCHOR BOLTS TO BE INSTALLED A MINIMUM OF 6" FROM EDGE OF CONCRETE PAD AND MIN. 4" EMBEDMENT.

ERICSSON P/N E6160

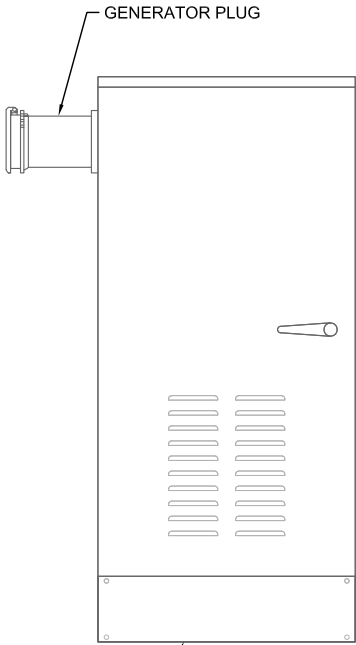


EQUIPMENT SPECIFICATIONS	
HEIGHT	63"
WIDTH	25.6"
DEPTH	26"
WEIGHT	380lbs

6160 SSC DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

PPC CABINET
(VERTIV P/N CS7S2-W836 OR CLIENT APPROVED EQUIVALENT)



PROPOSED PPC CABINET TO BE MOUNTED TO 1-5/8" UNISTRUT FRAME AS REQUIRED.

POWER PROTECTION CABINET (PPC)

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

GENERAL CONSTRUCTION:	SINGLE LAYER ALUMINUM ENCLOSURE, NEMA TYPE 3R
DIMENSIONS:	66"X25"X10"
WEIGHT:	~150 LBS (WITHOUT PACKING)
FINISH:	GRAY POWDER PAINT
DOOR LATCH:	3-POINT LATCHING
SAFETY:	UL 891 DEAD FRONT SWITCH BOARDS
OPERATING TEMPERATURE:	- NOT AVAILABLE
HUMIDITY:	NOT AVAILABLE
PROTECTION CLASS:	NEMA TYPE 3R
AC SECTION VOLT:	240/120Vac, SINGLE PHASE
CURRENT:	200A
AIC RATING:	UTILITY 65,000 AMPS

VB

BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

T

Mobile

5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634

FDH

INFRASTRUCTURE SERVICES

ENGINEERING INNOVATION

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STATE LICENNSE NO. 62750

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SITE NAME:
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T-MOBILE SITE ID:
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PARCEL:
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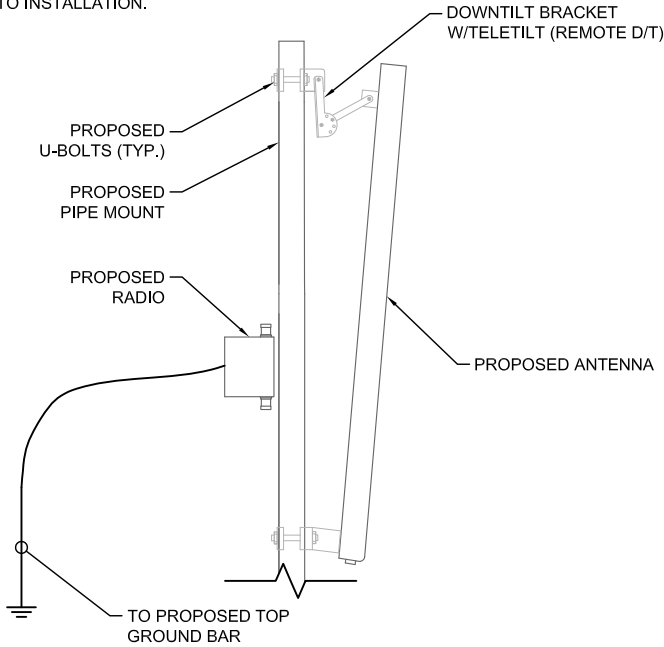
ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
T-MOBILE CABINET DETAILS

SHEET NUMBER:
C-5.1

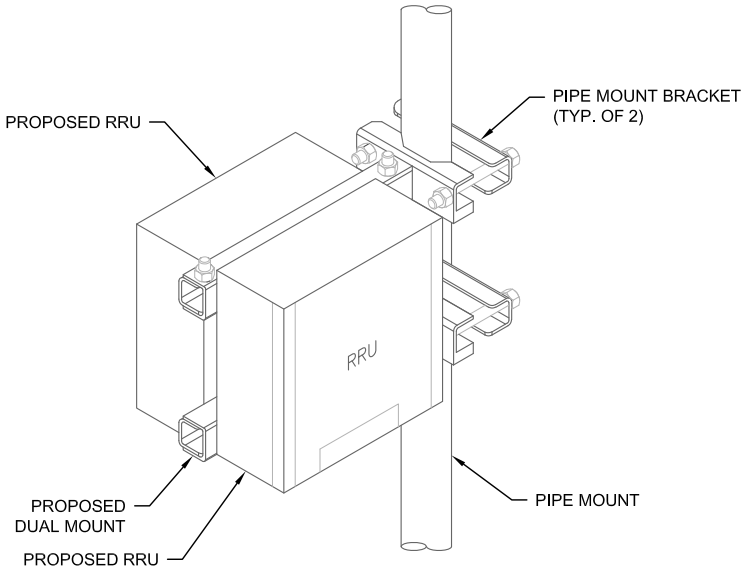
NOTE:

RRU LOCATION MAY VARY.
CONTRACTOR TO VERIFY
FINAL MOUNTING LOCATION
AND METHODS W/ SITE CM
PRIOR TO INSTALLATION.



PROPOSED T-MOBILE ANTENNA PIPE MOUNT

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

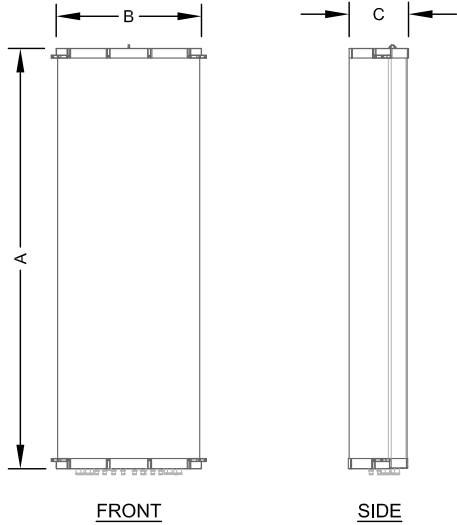


NOTES:

- RRU MANUFACTURER VIA AT&T SUPPLIES RRU, RRU PIPE-MOUNTING BRACKET. SUBCONTRACTOR SHALL SUPPLY PIPE AND INSTALL ALL MOUNTING HARDWARE INCLUDING RRU PIPE-MOUNTING BRACKET.
- FOR PIPE DIAMETERS FROM 6" TO 15", AT&T CAN SUPPLY A PAIR OF PIPE MOUNTING METAL BANDS WITH BOLTING WELDMENT.
- NO PAINTING OF THE RRU OR SOLAR SHIELD IS ALLOWED

DUAL RRU MOUNTING DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



ANTENNA SPECIFICATIONS

MODEL	LENGTH (A)	WIDTH (B)	DEPTH (C)	WEIGHT (lb)
COMMSCOPE FFVV-65C-R3-V1 (OCTO)	95.9"	25.2"	9.3"	124.6
AIR 6419 B41 MASSIVE MIMO	33.6"	20.0"	6.3"	68.5

ANTENNA SPECIFICATIONS

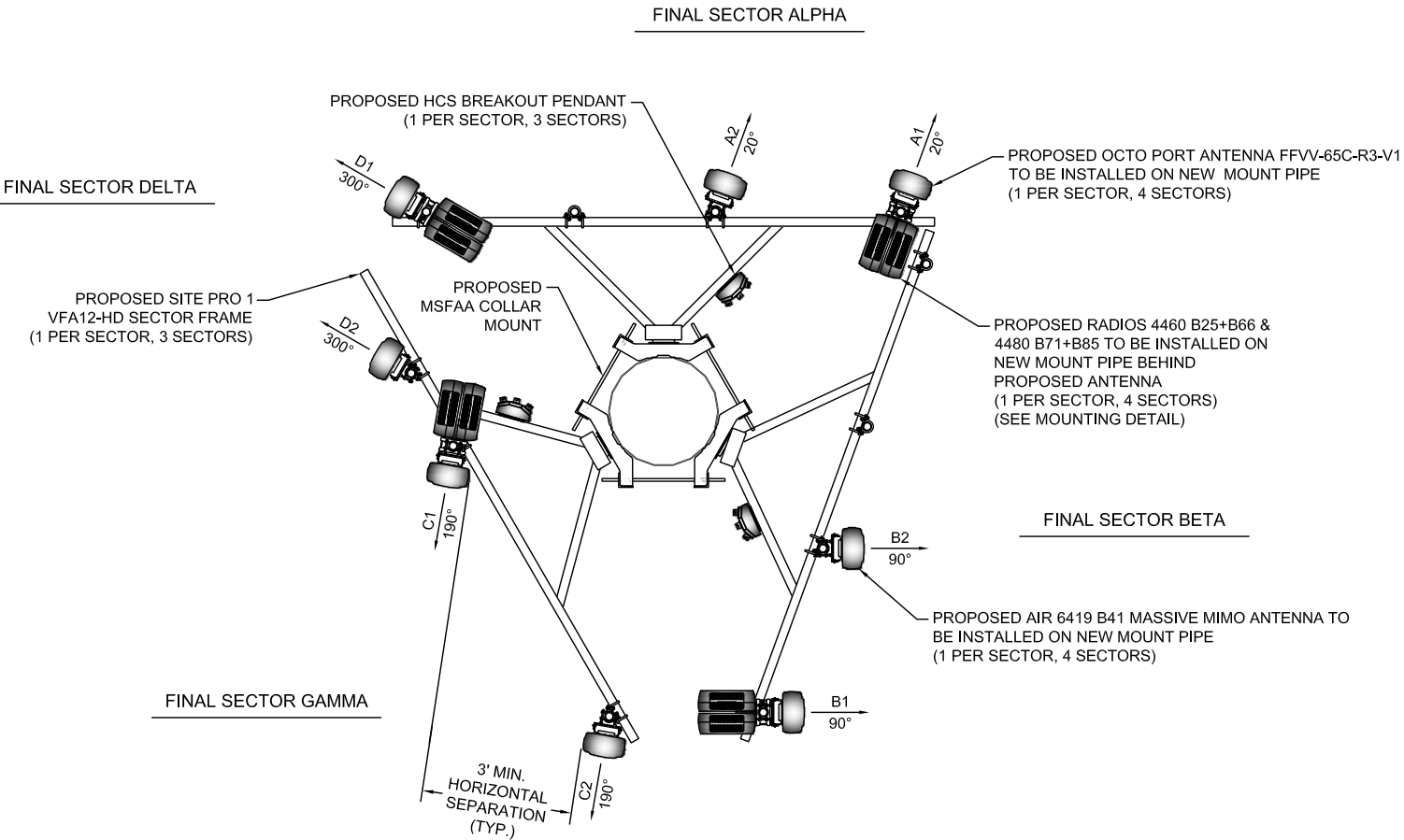
11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

EQUIPMENT NOTES:

- THIS ANTENNA ORIENTATION PLAN IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL VERIFY TOWER ORIENTATION AND FIELD COORDINATE REQUIRED ADJUSTMENTS TO ACHIEVE THE DESIRED ANTENNA AZIMUTHS.
- THE HYBRID CABLE LENGTH SHOWN IS APPROXIMATE AND SHOULD NOT BE USED FOR ORDERING MATERIALS. CONFIRM THE REQUIRED HYBRID CABLE LENGTH WITH T-MOBILE PRIOR TO ORDERING OR INSTALLATION.
- ANTENNA CENTERLINE HEIGHT REFERENCED FROM GROUND AT BASE OF TOWER, ASSUMING HEIGHT OF 0'-0" AT SAID REFERENCE POINT.
- ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWER ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
- ALL ANTENNA BRACKETS PER ANTENNA MANUFACTURER, OR EQUAL. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT WITH T-MOBILE.
- ALL ANTENNA INFORMATION TO BE CONFIRMED WITH T-MOBILE RF DESIGN PRIOR TO INSTALLATION

PROPOSED T-MOBILE ANTENNA CONFIGURATION

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



VB
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BOCA RATON, FL 33487

T-Mobile

5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634

FDH INFRASTRUCTURE SERVICES

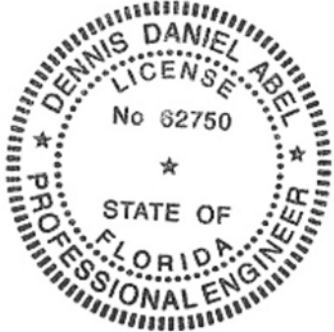
ENGINEERING INNOVATION

FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

252835000000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

T-MOBILE ANTENNA
LAYOUT & DETAILS

SHEET NUMBER:

C-6

ANTENNA KEY												
SECTOR	POSITION	ANTENNA MAKE & MODEL	TECHNOLOGY	ANTENNA AZIMUTH	M TILT	E TILT	ANTENNA CENTERLINE	RADIO EQUIP.	RADIO EQUIP.	BREAKOUT	CABLE TYPE	CABLE LENGTH
ALPHA	A1	COMMSCOPE FFVV-65C-R3-V1(OCTO)	L700 N600/L2100 L1900/N1900	20°	0°	-	140'-0"	4480 B71+B85	4460 B25+B66	(3) HCS PENDANTS	(3) HCS 2.0 CABLES	210'-0"±
	A2	AIR 6419 B41 ACTIVE ANTENNA-MASSIVE MIMO	N2500/L2500	20°	0°	-	140'-0"	-	-			
BETA	B1	COMMSCOPE FFVV-65C-R3-V1(OCTO)	L700 N600/L2100 L1900/N1900	90°	0°	-	140'-0"	4480 B71+B85	4460 B25+B66			
	B2	AIR 6419 B41 ACTIVE ANTENNA-MASSIVE MIMO	N2500/L2500	90°	0°	-	140'-0"	-	-			
GAMMA	C1	COMMSCOPE FFVV-65C-R3-V1(OCTO)	L700 N600/L2100 L1900/N1900	190°	0°	-	140'-0"	4480 B71+B85	4460 B25+B66			
	C2	AIR 6419 B41 ACTIVE ANTENNA-MASSIVE MIMO	N2500/L2500	190°	0°	-	140'-0"	-	-			
DELTA	D1	COMMSCOPE FFVV-65C-R3-V1(OCTO)	L700 N600/L2100 L1900/N1900	300°	0°	-	140'-0"	4480 B71+B85	4460 B25+B66			
	D2	AIR 6419 B41 ACTIVE ANTENNA-MASSIVE MIMO	N2500/L2500	300°	0°	-	140'-0"	-	-			

PROPOSED ANTENNA SCHEDULE

EQUIPMENT NOTES:

1. ANTENNA CONTRACTOR SHALL ENSURE THAT ALL ANTENNA MOUNTING PIPES ARE PLUMB.
2. COAXIAL FEEDER & FIBER LENGTHS INDICATED ARE APPROXIMATE.
3. ANTENNA COAXIAL FEEDERS & ANTENNA JUMPERS SHALL BE COLOR CODED PER T-MOBILE REQUIREMENTS, IN THE ANTENNA KEY THE FOLLOWING CHECKER STRIPE SHALL BE ADDED TO EACH ANTENNA COAXIAL FEEDER & ANTENNA JUMPER.

LTE 700 - WHITE-ORANGE
LTE PCS - ORANGE-ORANGE
LTE AWS - N/A
UMTS PCS - ORANGE-BLUE
UMTS AWS - N/A
GSM PCS - ORANGE-WHITE
LTE 600 - PINK-ORANGE

4. IN ADDITION TO THE COLOR CODE THE FOLLOWING ANTENNA SECTOR COLOR STRIPE SHALL BE ADDED TO EACH ANTENNA SECTOR FEEDER & JUMPER.

ALPHA - RED
BETA - GREEN
GAMMA - BLUE
DELTA - YELLOW
EPSILON - WHITE
ZETA - PURPLE

5. MULTI PORT ANTENNAS: TERMINATE UNUSED ANTENNA PORTS WITH CONNECTOR CAP & WEATHERPROOF THOROUGHLY. JUMPERS FROM TMA'S MUST TERMINATE TO OPPOSITE POLARIZATIONS IN EACH SECTOR.

6. CONTRACTOR MUST FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS REGARDING THE INSTALLATION OF COAXIAL CABLE, CONNECTORS, AND ANTENNAS.

7. MINIMUM BEND RADIUS:

LDF4-50A (1/2" HARD LINE)=5"
FSJ4-50B (1/2" SUPER FLEX)=1-1/4"
AVA5-50A (7/8" HARD LINE)=10"
AVA7-50A (1-5/8" HARD LINE)=15"
LDF7-50A (1-5/8" HARD LINE)=20"

8. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND FURNISH THE INFORMATION TO T-MOBILE.

9. WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE.

10. ANTENNA CONTRACTOR SHALL PERFORM A "TAPE DROP MEASUREMENT TO CONFIRM/VALIDATE ANTENNA CENTERLINE (ACL) HEIGHT. CONTRACTOR SHALL SUBMIT A COMPLETED HEIGHT VERIFICATION FORM TO THE CONTRACTION MANGER.

11. ALL FIBER RUNS CONTAINED IN ONE COMMSCOPE HYBRID DC-FIBER CABLE (MODEL# ASU9325TYP01) FROM LOWER COVP TO UPPER COVP. HYBRID CABLE SHALL BE COLOR CODED PER T-MOBILE REQUIREMENTS.

12. HYBRID CABLE HYBRIFLEX 6x24 4AWG

13. ALL ANTENNA INFORMATION TO BE CONFIRMED WITH T-MOBILE RF DESIGN PRIOR TO INSTALLATION

EQUIPMENT KEY SECTOR					
LOCATION	VENDOR	EQUIPMENT	MODEL NO.	QTY. & STATUS	
				EXISTING	NEW
1 PER SECTOR	ERICSSON	RRU	RADIO 4480 B71+B85	-	4
1 PER SECTOR	ERICSSON	RRU	RADIO 4460 B25+B66	-	4
MOUNT FRAME	COMMSCOPE	PENDANT	HCS	-	3

VB

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BOCA RATON, FL 33487

T-Mobile

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FDH INFRASTRUCTURE SERVICES

FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
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SUBMITTALS				
REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

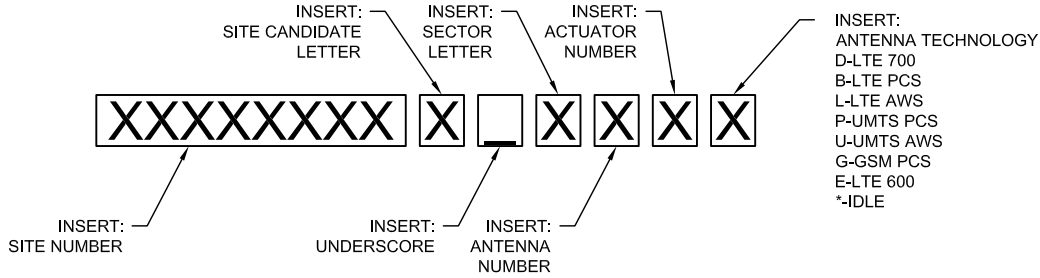
FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140
SITE NAME:
HUNGRY HOWIE
T-MOBILE SITE ID:
A2B2227A

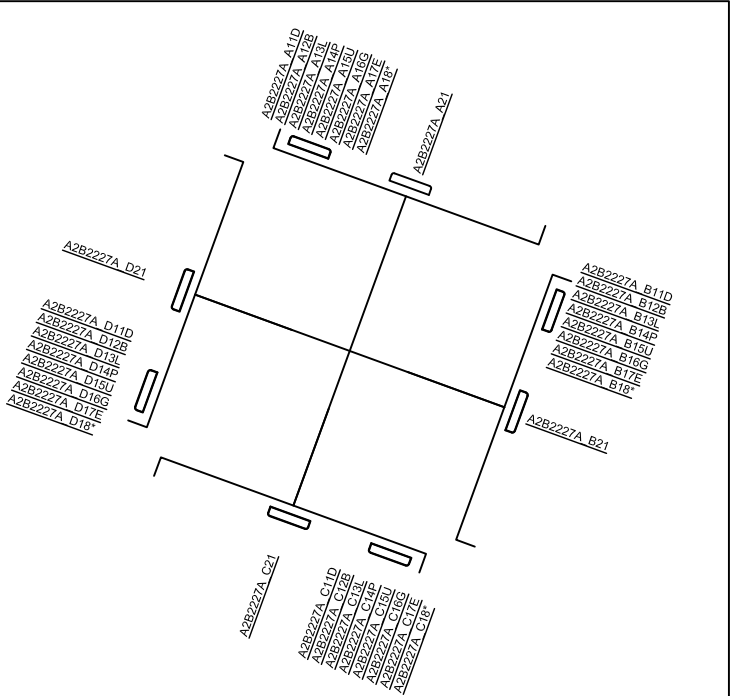
PARCEL:
252835000000023020
ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
T-MOBILE ANTENNA
LAYOUT & DETAILS

SHEET NUMBER:
C-6.1

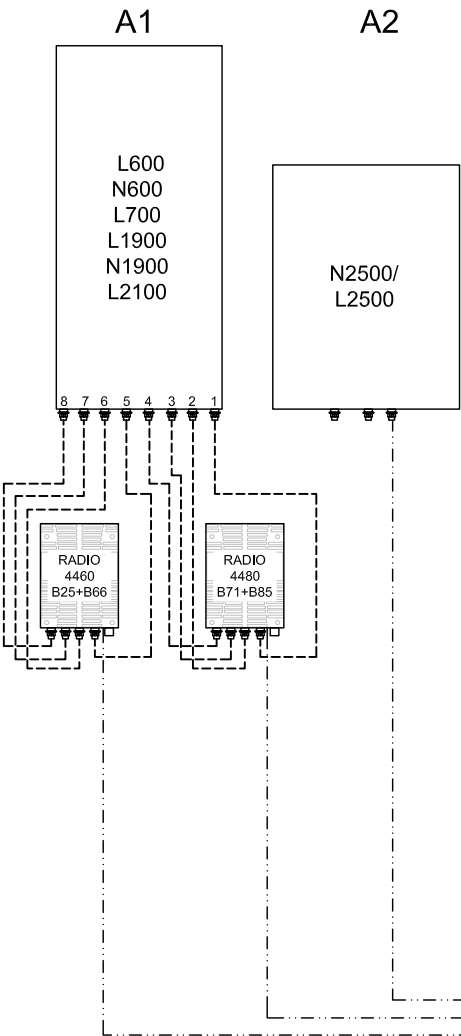


RET ACTUATOR NAMING CONVENTION INSTRUCTIONS

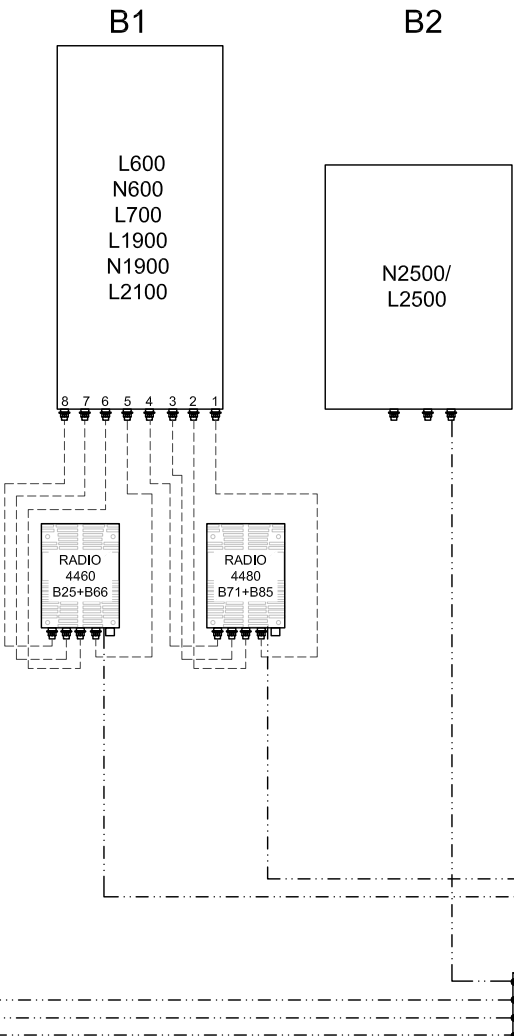


RET ACTUATOR NAMING CONVENTION

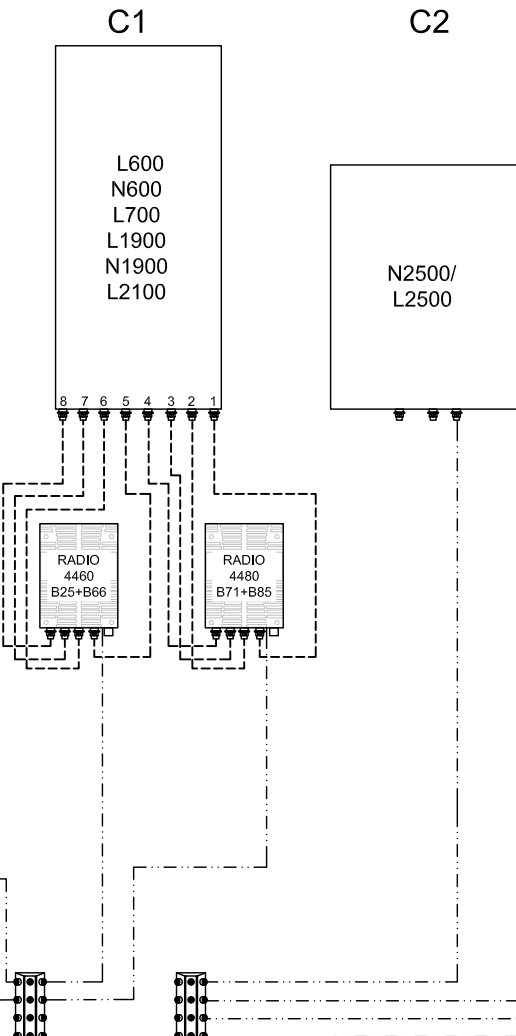
ALPHA SECTOR



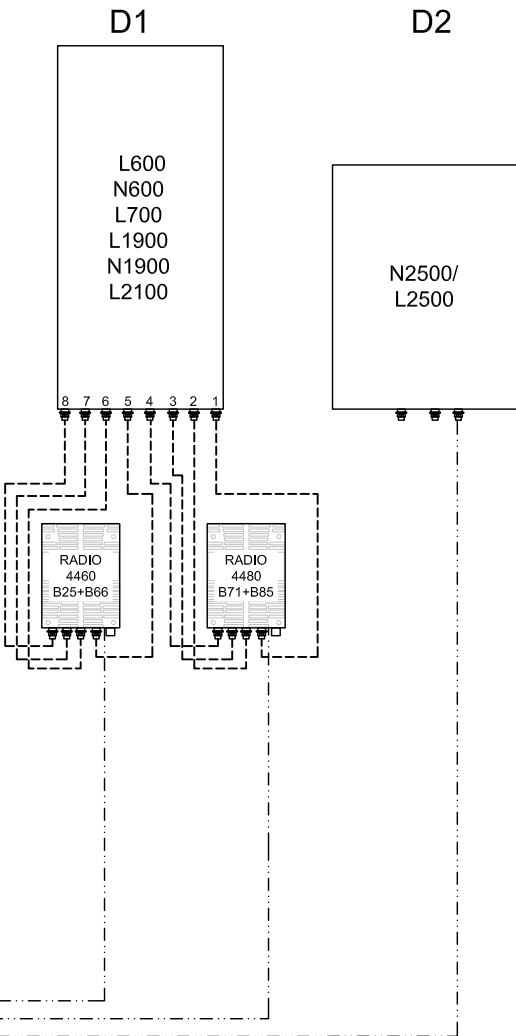
BETA SECTOR



GAMME SECTOR



DELTA SECTOR



ANTENNA LOCATION

EQUIPMENT LOCATION

REFER TO CURRENT RFDS

NOTE TO GC:

- REFER TO UPDATE RFDS FOR LATEST CONFIGURATION DRAWING OF RF CABLING. CAP OFF UNUSED RE/RET PORTS
- GC TO REQUIRE THE LATEST PORT MATRIX DIAGRAM FROM RF FOR THIS SITE. FC TO REFER TO ANTENNA PLAN FOR ANTENNA LOCATIONS
- GC TO CAP ALL UNUSED PORTS
- ALL EXISTING TJMA'S TO BE REMOVED AND ANY UNUSED RF/RET PORTS ARE TO BE CAPPED
- OBTAIN CURRENT RFDS WITHIN 48 HOURS PRIOR TO CONSTRUCTION
- FOLLOW PORT MATRIX PER RF CONFIGURATION

LEGEND:

—————	COAX CABLE
-----	RET CABLING
- - - - -	RF CABLING ALPHA
- - - - -	RF CABLING BETA
- - - - -	RF CABLING GAMMA
—————	HYBRID CABLE (POWER AND FIBER)
—————	MAIN POWER AND FIBER
.....	FIBER AND POWER JUMPER

HCS BREAKOUT PENDANT
(TYP. OF 3)

TELCO BOX
P/N: FE-16148-OVP-B12

T-MOBILE LTE GPS ANTENNA

SYSTEM CONNECTION DIAGRAM

11"x17" SCALE: N.T.S.
22"x34" SCALE: N.T.S.

VB
BTS II, LLC
750 PARK OF COMMERCE DR, SUITE 200
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5901 BENJAMIN CENTER DR.
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FDH INFRASTRUCTURE SERVICES
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REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER: PR-008353
SITE ID: US-FL-7140
SITE NAME: HUNGRY HOWIE
T-MOBILE SITE ID: A2B2227A
PARCEL: 252835000000023020
ADDRESS: 3024 SPIRIT LAKE DRIVE WINTER HAVEN, FL 33880
SHEET TITLE: T-MOBILE SYSTEM CONNECTION DIAGRAM
SHEET NUMBER: C-6.2

NOTE:
CONTRACTOR TO INSTALL NUMBERED
MULE-TAPE IN ALL CONDUITS.

NOTE:
THIS SITE IS PARTIALLY LOCATED IN FLOOD ZONE AE 134.3, NAVD
'88. SITE TOPOGRAPHY IS ALSO ON NAVD '88. ALL EQUIPMENT
SHALL BE ELEVATED TO A MINIMUM ELEVATION OF 135.5'.



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STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140

SITE NAME:
HUNGRY HOWIE

T-MOBILE SITE ID:
A2B2227A

PARCEL:
252835000000023020

ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
COMPOUND ELECTRICAL PLAN

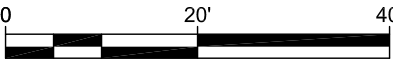
SHEET NUMBER:

E-1

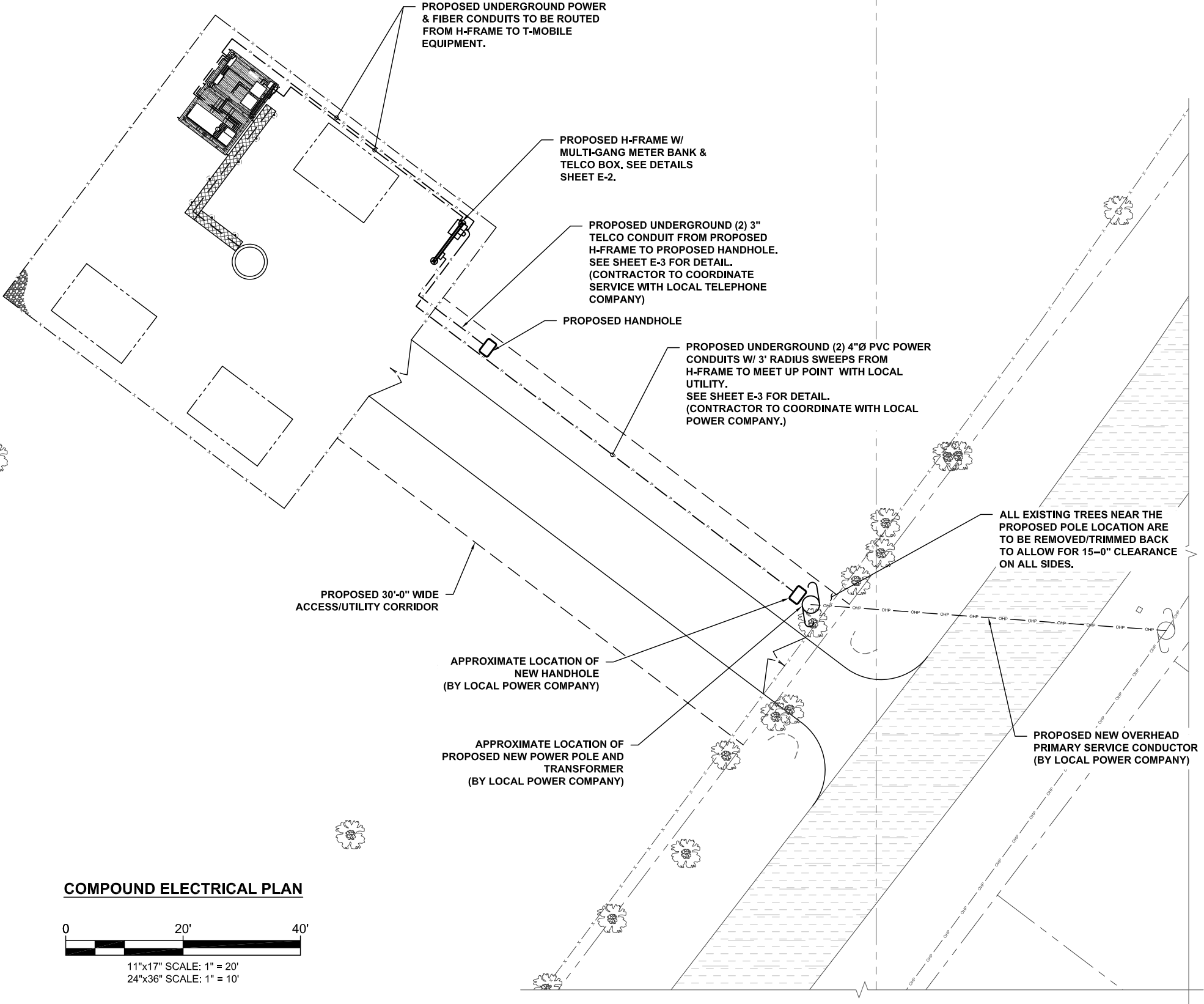
LEGEND:

— OHP — OHP —	E-OVERHEAD POWER
— X — X — X —	P-FENCE
— X — X — X —	E-CHAINLINK FENCE
— — — — —	E-EASEMENT
— — — — —	P-EASEMENT
— ROW — ROW —	E-RIGHT OF WAY
— — — — —	P-LEASE AREA
— — — — —	E-MAJOR CONTOUR
— — — — —	E-MINOR CONTOUR
— — — — —	P-MAJOR CONTOUR
— — — — —	P-MINOR CONTOUR
— — — — —	E-ROAD
— — — — —	P-ROAD
— — — — —	P-PROPERTY LINE

COMPOUND ELECTRICAL PLAN



11"x17" SCALE: 1" = 20'
24"x36" SCALE: 1" = 10'



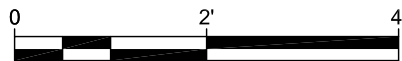
NOTE:
CONTRACTOR TO INSTALL NUMBERED
MULE-TAPE IN ALL CONDUITS.

NOTE:
CONTRACTOR TO VERIFY ALL
CONDUIT/WIRE/GROUNDING TYPE/SIZE
WITH T-MOBILE/EQUIPMENT
MANUFACTURER'S SPECIFICATION..

LEGEND:

— T — T — T — P-TELCO
— P — P — P — P-POWER

T-MOBILE ELECTRICAL PLAN



11"x17" SCALE: 1" = 2'
24"x36" SCALE: 1" = 1'

PROPOSED ICE
BRIDGE.

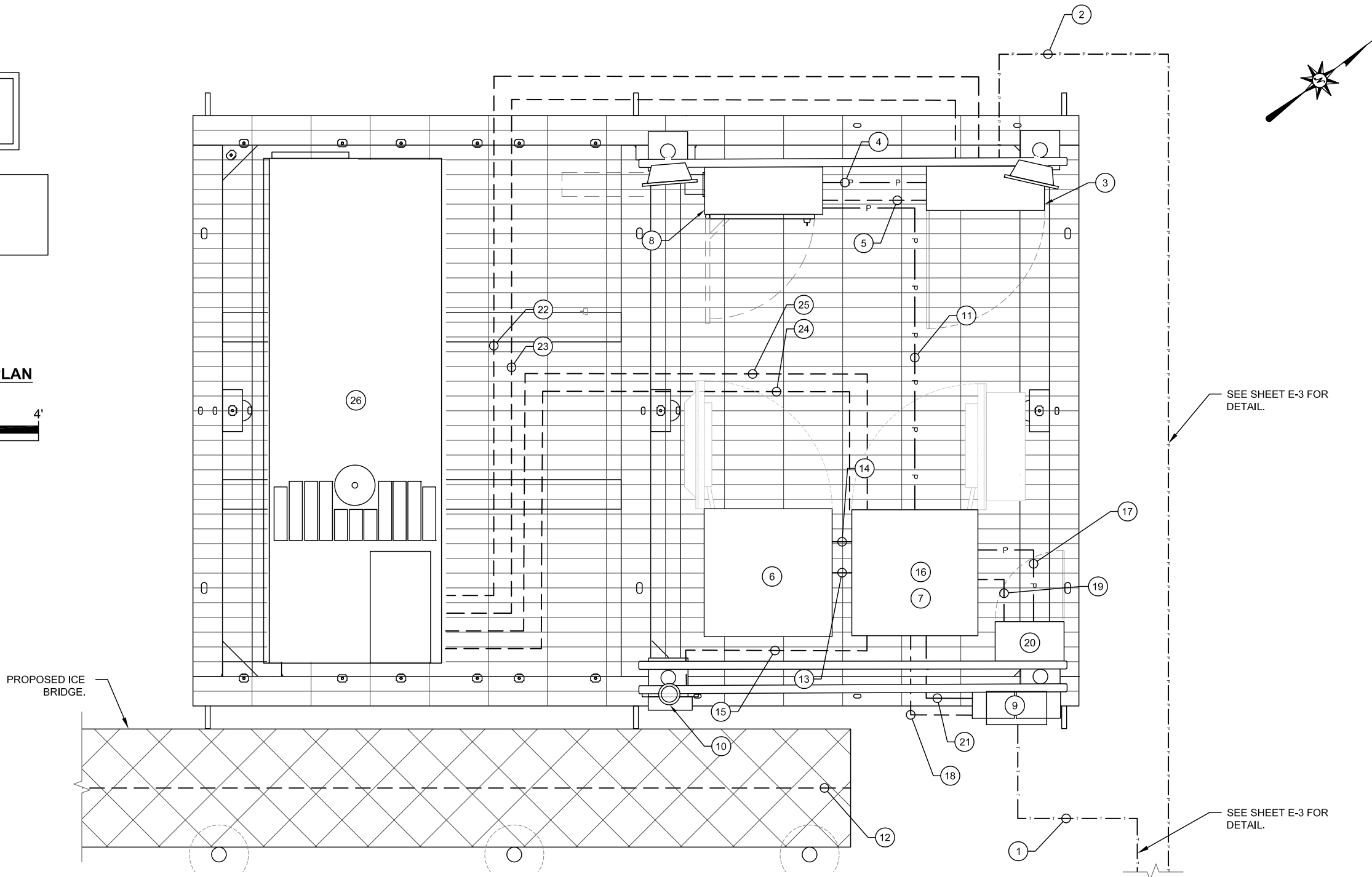
CALLOUTS:

- ① PROPOSED UNDERGROUND (1) 3"Ø PVC TELCO SCHEDULE 40 CONDUIT FROM PROPOSED TELCO STUB UP TO PROPOSED CARRIER EQUIPMENT
- ② PROPOSED UNDERGROUND (1) 3"Ø PVC SCHEDULE 40 POWER CONDUIT FROM PROPOSED METER BANK TO PROPOSED CARRIER EQUIPMENT.
- ③ PROPOSED AUTOMATIC TRANSFER SWITCH.
- ④ (1) PROPOSED 2"Ø POWER CONDUIT FROM PROPOSED ATS TO PROPOSED PPC.
- ⑤ (1) PROPOSED 2"Ø CONDUIT FROM PROPOSED ATS TO PROPOSED PPC.
- ⑥ PROPOSED CARRIER BBU CABINET.
- ⑦ PROPOSED CARRIER SITE SUPPORT EQUIPMENT CABINET.
- ⑧ PROPOSED CARRIER PPC POWER CABINET.

- ⑨ PROPOSED CARRIER TELCO BOX
- ⑩ PROPOSED GPS ANTENNA.
- ⑪ PROPOSED 3"Ø PVC CONDUIT FOR POWER FROM PPC CABINET TO SITE SUPPORT CABINET. CONTRACTOR TO VERIFY LOCATION.
- ⑫ PROPOSED (1) HIGH CAP HYBRID CABLE TO BE ROUTED UP TOWER TO HCS 2.0 BREAKOUT.
- ⑬ PROPOSED (2) 2"Ø CONDUIT FROM PROPOSED BATTERY CABINET TO PROPOSED SITE SUPPORT CABINET FOR DC POWER
- ⑭ PROPOSED 2"Ø CONDUIT FROM PROPOSED SITE SUPPORT CABINET TO PROPOSED BATTERY CABINET FOR BATTERY HEATER.
- ⑮ PROPOSED 2"Ø CONDUIT FROM ALARM TO PROPOSED SITE SUPPORT CABINET.

- ⑯ PROPOSED CARRIER MODULES RADIO/EMHA EQUIPMENT.
- ⑰ PROPOSED 2"Ø CONDUITS FOR POWER FROM SITE SUPPORT CABINET TO OVP. (TYP.)
- ⑱ PURPOSELY OMITTED.
- ⑲ PROPOSED JUMPER FROM FCOA TO COVP. (TYP.)
- ⑳ PROPOSED COMMSCOPE OVP
- ㉑ PROPOSED 1"Ø CONDUIT FOR DC POWER FROM TELCO BOX TO SITE SUPPORT CABINET.
- ㉒ (1) PROPOSED 2"Ø POWER CONDUIT FROM PROPOSED ATS TO PROPOSED GENERATOR.
- ㉓ (1) PROPOSED 1"Ø REMOTE START W/ RELAY CONDUIT FROM PROPOSED ATS TO PROPOSED GENERATOR.

- ㉔ (1) PROPOSED 1"Ø ALARM CONDUIT FROM PROPOSED GENERATOR TO PROPOSED SITE SUPPORT CABINET
- ㉕ (1) PROPOSED 1"Ø HEATER BLOCK & BATTERY CHARGER CONDUIT FROM PROPOSED GENERATOR TO PROPOSED SITE SUPPORT CABINET
- ㉖ PROPOSED GENERATOR.



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SITE ID:

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SITE NAME:

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T-MOBILE SITE ID:

A2B2227A

PARCEL:

252835000000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

T-MOBILE EQUIPMENT
ELECTRICAL PLAN

SHEET NUMBER:

E-1.1

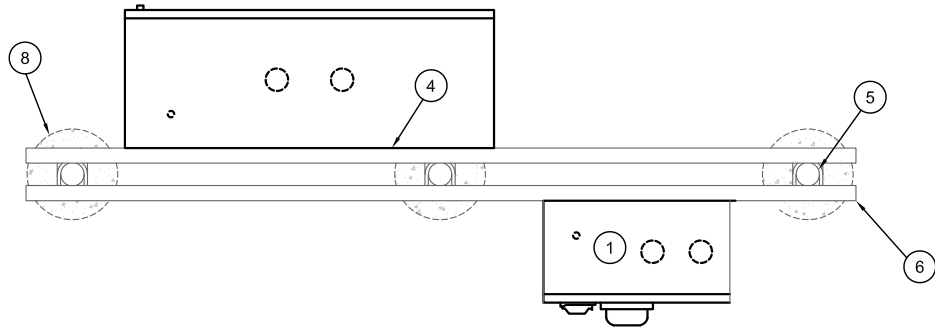
CALLOUTS:

- 1 600A, 120/240V, 1 PHASE, 3 WIRE, 4 POSITION METERING CENTER (200A MAX CIRCUIT BREAKER) (SQUARE D METER MPR64200 OR EQUIVALENT)
- 2 200A TENANT SERVICE DISCONNECT (SQUARE D CATALOG #QOM2200MVH OR EQUIVALENT)
- 3 SINGLE DOOR TELCO ENCLOSURE (4'-0"x4'-0"x18") (HOFFMAN CATALOG #CSD483612 OR APPROVED EQUIVALENT)
- 4 3/4" PLYWOOD BACKBOARD
- 5 3" NOMINAL SCHEDULE 40, GALVANIZED STEEL PIPE WITH PIPE CAP
- 6 HORIZONTAL SUPPORT MEMBER (UNISTRUT P1000 OR APPROVED EQUIVALENT)
- 7 CONTRACTOR TO MAINTAIN 3'-0" MINIMUM CLEARANCE FROM METERING CENTER TO NEAREST OBSTRUCTION
- 8 CONCRETE PIER FOUNDATION TO ACHIEVE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE DEPTH TO BE A MINIMUM OF 6" BELOW FROST LINE (48" MINIMUM, TYP.) - SEE PIER FOUNDATION DETAIL ON SHEET C-5
- 9 #2 SOLID, TINNED, BARE COPPER LEADS TO COMPOUND GROUND RING
- 10 EXISTING SUB-GRADE

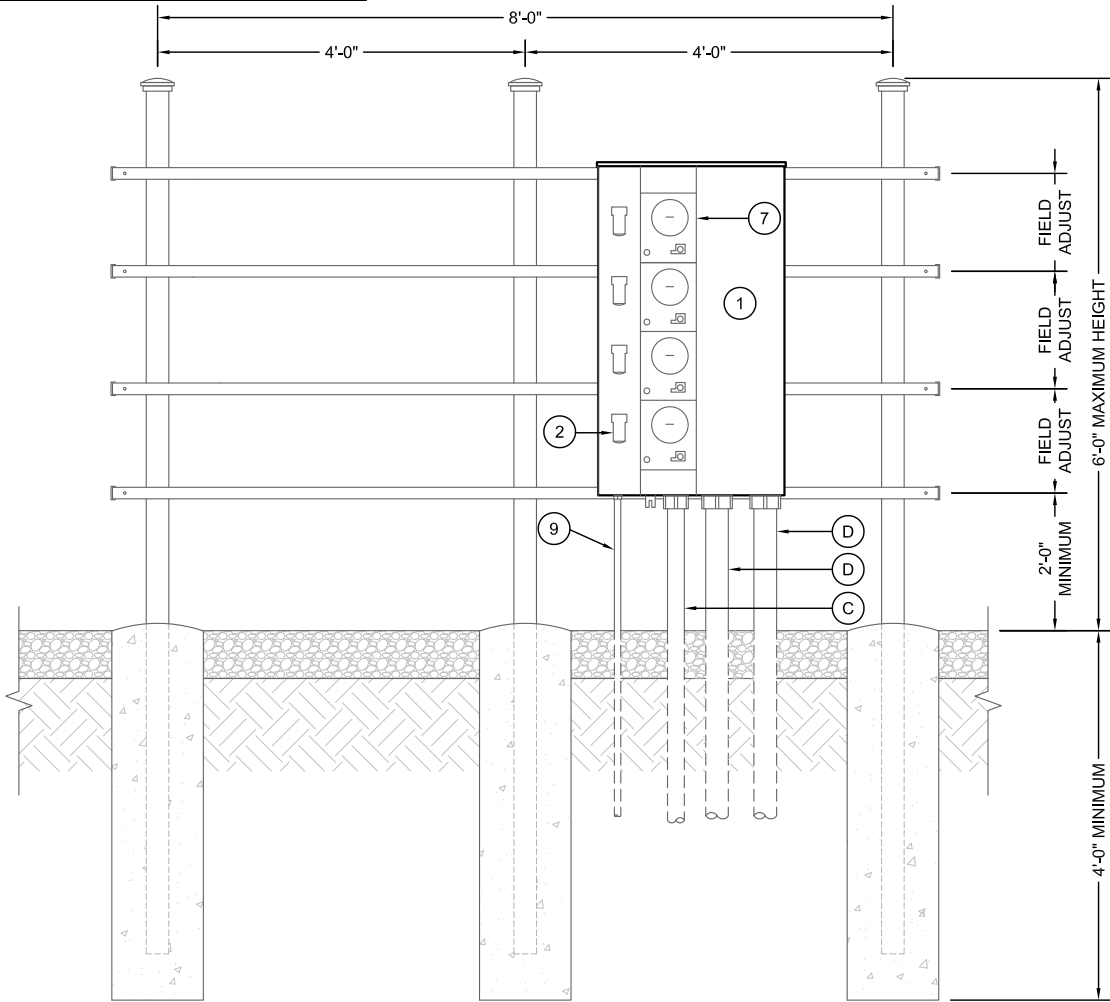
NOTE:
THIS SITE IS PARTIALLY LOCATED IN FLOOD ZONE AE 134.3, NAVD '88. SITE TOPOGRAPHY IS ALSO ON NAVD '88. ALL EQUIPMENT SHALL BE ELEVATED TO A MINIMUM ELEVATION OF 135.5'.

NOTE:
CONTRACTOR TO CONFIRM METERING CENTER APPROVED BY LOCAL POWER COMPANY..

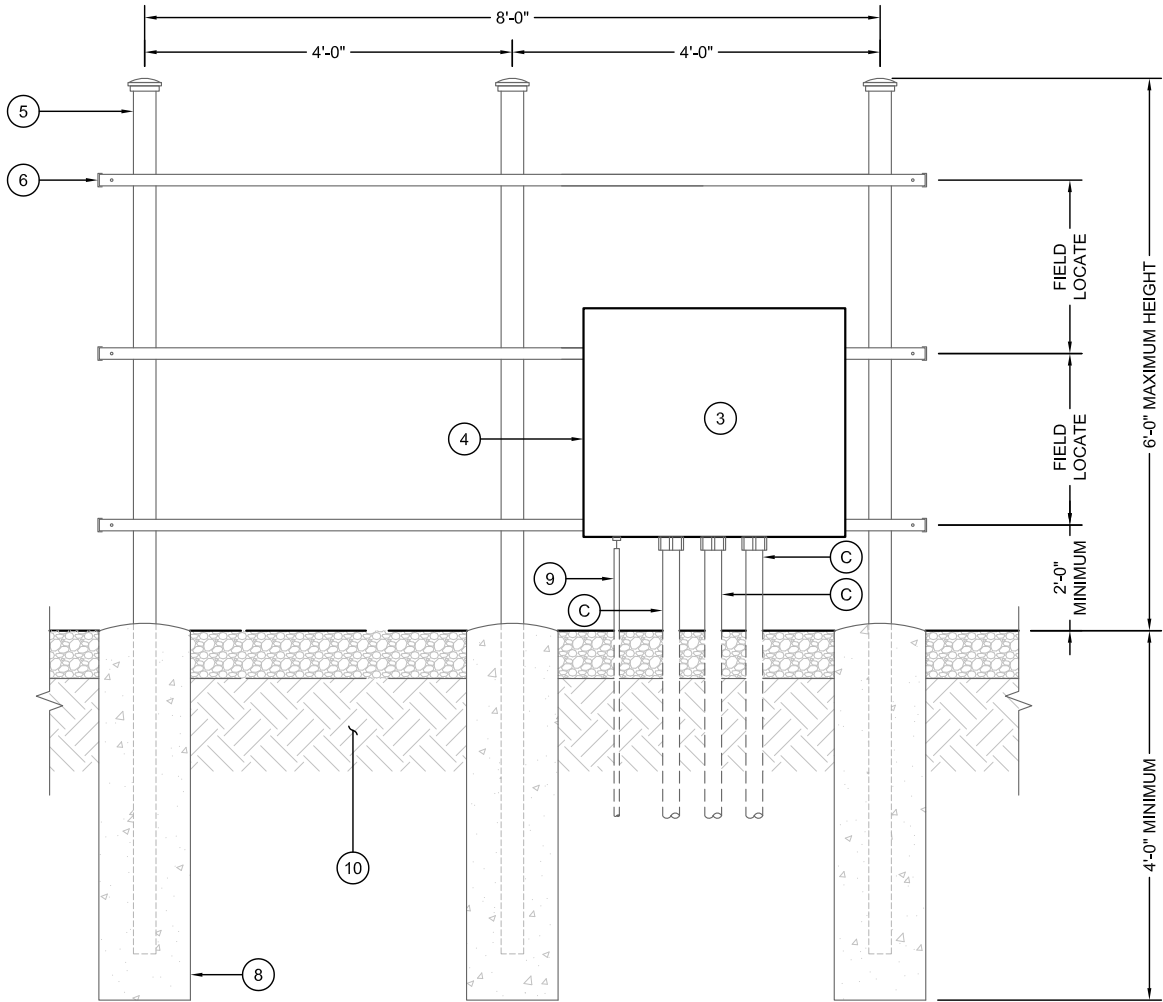
CONDUIT CHART		
CALLOUT	SIZE	TYPE
A	1"	PVC SCHEDULE 40
B	2"	PVC SCHEDULE 40
C	3"	PVC SCHEDULE 40
D	4"	PVC SCHEDULE 40



PLAN VIEW



FRONT VIEW



REAR VIEW

MULTI-CARRIER UTILITY RACK DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

NOTE:
CONTRACTOR TO INSTALL NUMBERED MULE-TAPE/PULL STRINGS IN ALL CONDUITS.

VB
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BOCA RATON, FL 33487

T-Mobile

5901 BENJAMIN CENTER DR.
SUITE 110 A-B
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FDH INFRASTRUCTURE SERVICES

ENGINEERING INNOVATION

FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

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SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

252835000000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

METER & TELCO RACK

SHEET NUMBER:

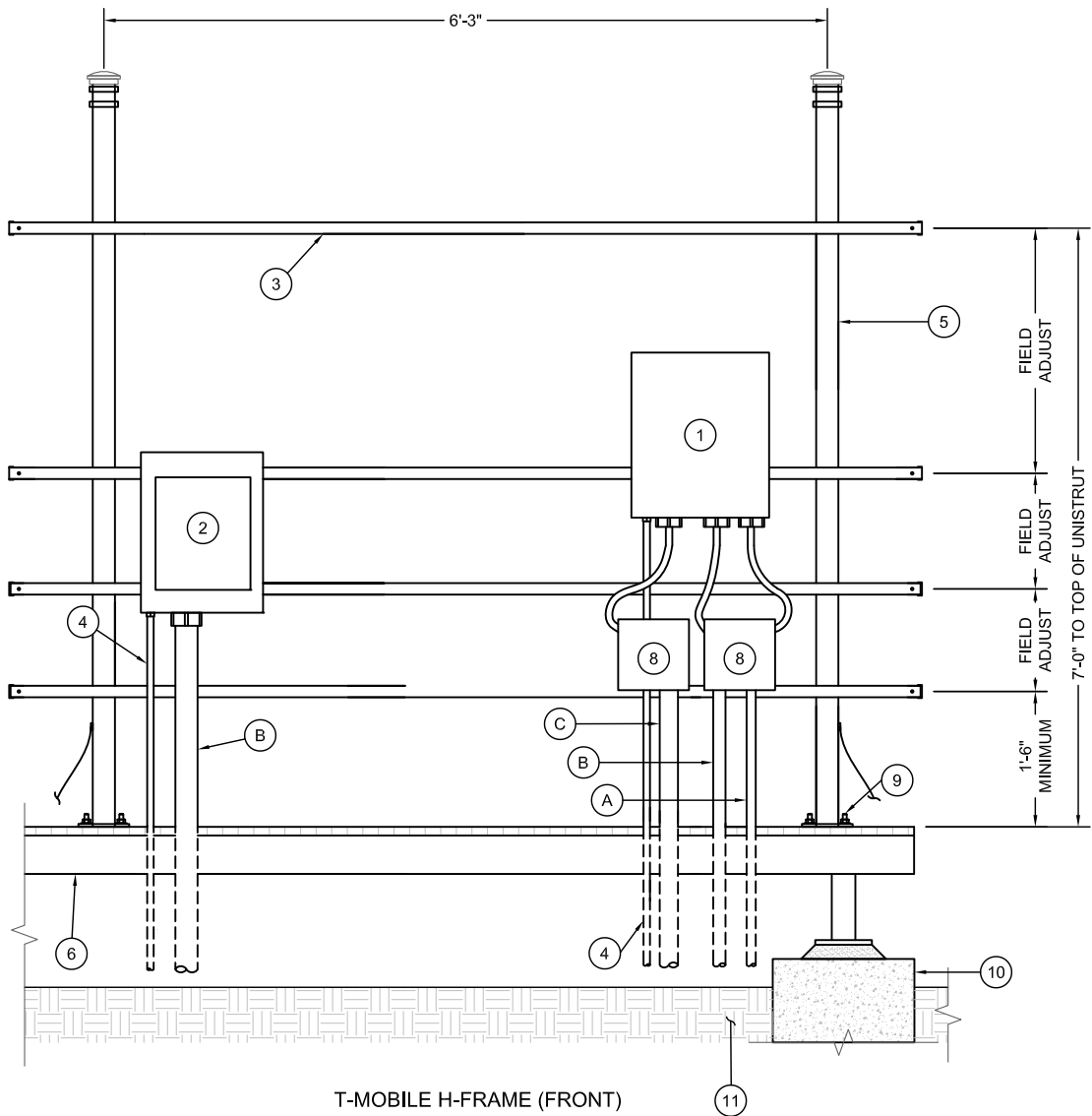
E-2

CALLOUTS:

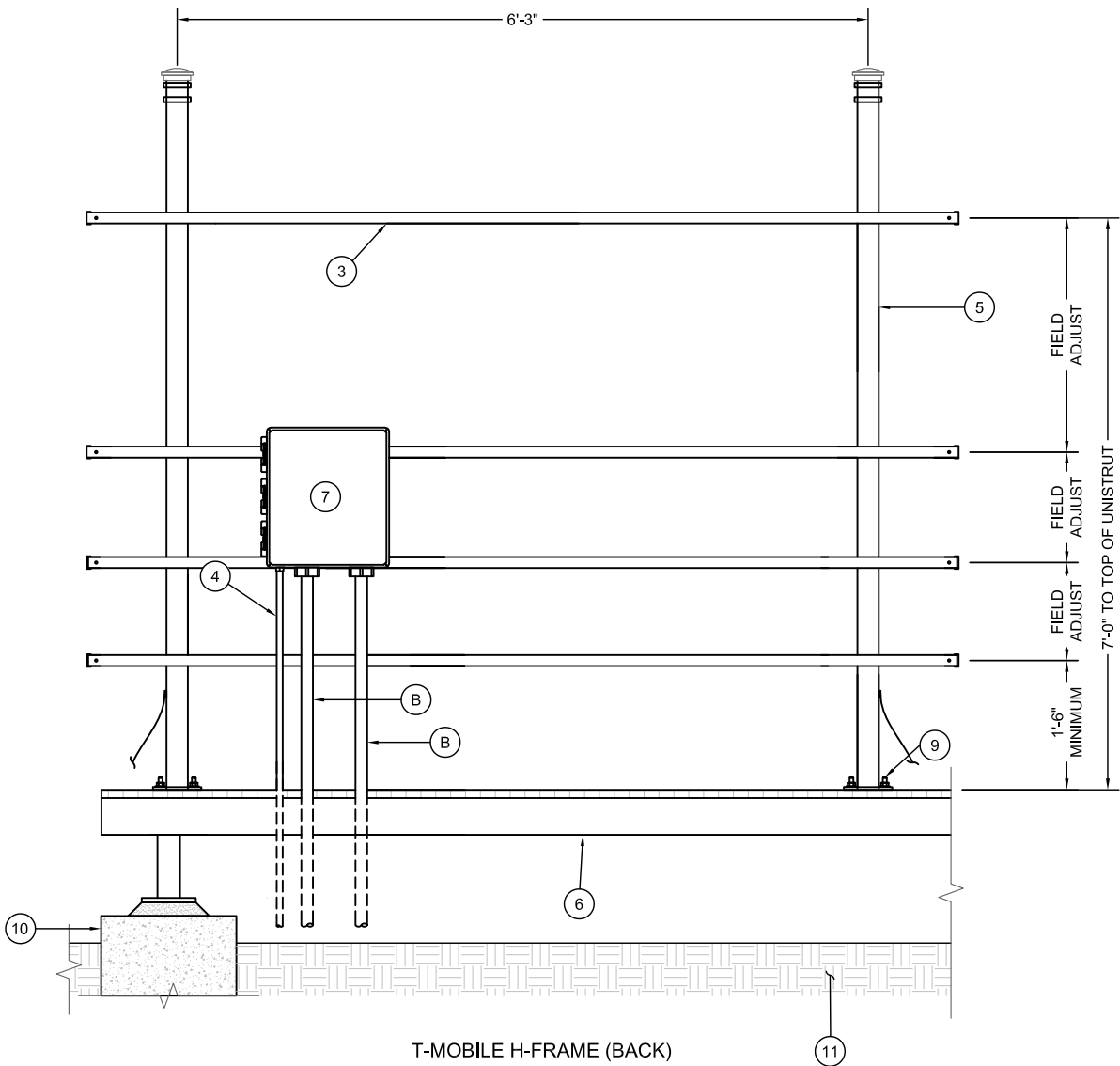
- 1 PROPOSED T-MOBILE TELCO BOX
- 2 PROPOSED T-MOBILE ALARM BOX
- 3 PROPOSED UNISTRUT FRAME (P1000 OR APPROVED EQUIVALENT)
- 4 #2 SOLID, TINNED BARE COPPER LEADS TO T-MOBILE GROUND RING
- 5 PROPOSED T-MOBILE H-FRAME POST TO BE INSTALLED PER T-MOBILE SPECIFICATIONS
- 6 PROPOSED T-MOBILE EQUIPMENT PLATFORM
- 7 PROPOSED T-MOBILE FIBER OVP
- 8 PROPOSED T-MOBILE J-BOX
- 9 UNISTRUT FRAME TO BE SECURED TO EQUIPMENT PLATFORM PER T-MOBILE SPECIFICATIONS
- 10 CONCRETE PIER FOUNDATION. SEE PIER FOUNDATION DETAIL ON SHEET S-1.
- 11 EXISTING SUB-GRADE.

CONDUIT CHART		
CALLOUT	SIZE	TYPE
(A)	1"	PVC SCHEDULE 40
(B)	2"	PVC SCHEDULE 40
(C)	3"	PVC SCHEDULE 40
(D)	4"	PVC SCHEDULE 40

NOTE:
CONTRACTOR TO PROVIDE 3'-0" MIN. CLEARANCE
FROM ALL EQUIPMENT TO NEAREST OBSTRUCTION.



T-MOBILE H-FRAME (FRONT)
11"x17" SCALE: N.T.S.
22"x34" SCALE: N.T.S.



T-MOBILE H-FRAME (BACK)
11"x17" SCALE: N.T.S.
22"x34" SCALE: N.T.S.

VB
BTS II, LLC
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T-Mobile
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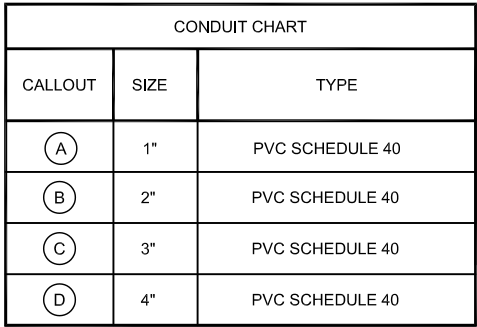
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PARCEL:
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ADDRESS:
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WINTER HAVEN, FL 33880

SHEET TITLE:
T-MOBILE EQUIPMENT
RACK DETAIL

SHEET NUMBER:
E-2.1

- ① PROPOSED T-MOBILE PPC POWER CABINET
- ② PROPOSED T-MOBILE AUTOMATIC TRANSFER SWITCH
- ③ PROPOSED UNISTRUT FRAME (P1000 OR APPROVED EQUIVALENT)
- ④ #2 SOLID, TINNED BARE COPPER LEADS TO T-MOBILE GROUND RING
- ⑤ 1"Ø RIGID METAL CONDUIT FROM PPC CABINET TO GFCI RECEPTACLE/SWITCH
- ⑥ 20A OUTDOOR GFCI RECEPTACLE/SWITCH
- ⑦ 1"Ø RIGID METAL CONDUIT FROM GFCI RECEPTACLE/SWITCH TO OVER HEAD WORK LIGHTS
- ⑧ PROPOSED T-MOBILE H-FRAME POST TO BE INSTALLED PER T-MOBILE SPECIFICATIONS
- ⑨ PROPOSED T-MOBILE EQUIPMENT PLATFORM
- ⑩ UNISTRUT FRAME TO BE SECURED TO EQUIPMENT PLATFORM PER T-MOBILE SPECIFICATIONS
- ⑪ LED WEATHER PROOF FLOOD LIGHT ATTACHED TO POST.
- ⑫ CONCRETE PIER FOUNDATION. SEE PIER FOUNDATION DETAIL ON SHEET S-1.
- ⑬ EXISTING SUB-GRADE.



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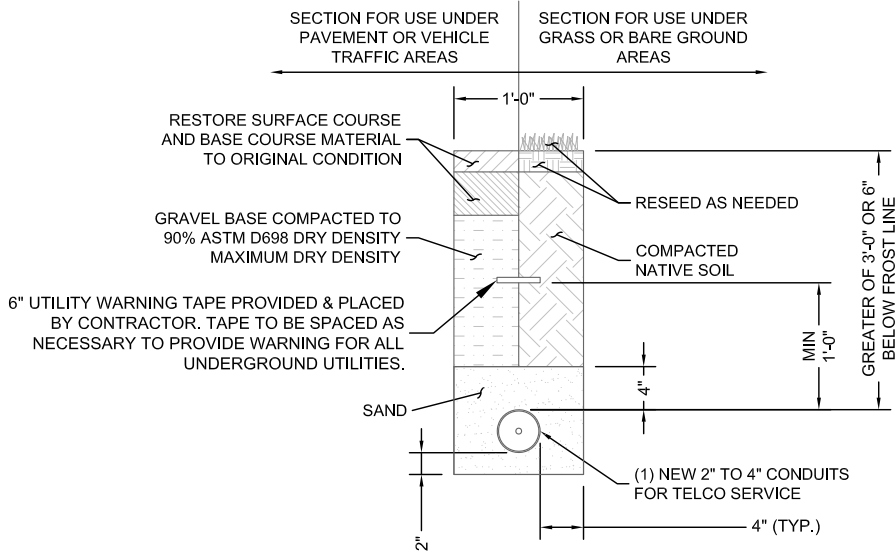
PARCEL:
252835000000023020

ADDRESS:
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WINTER HAVEN, FL 33880

SHEET TITLE:

T-MOBILE EQUIPMENT
RACK DETAIL

SHEET NUMBER:
E-2.2



TELCO TRENCH DETAIL

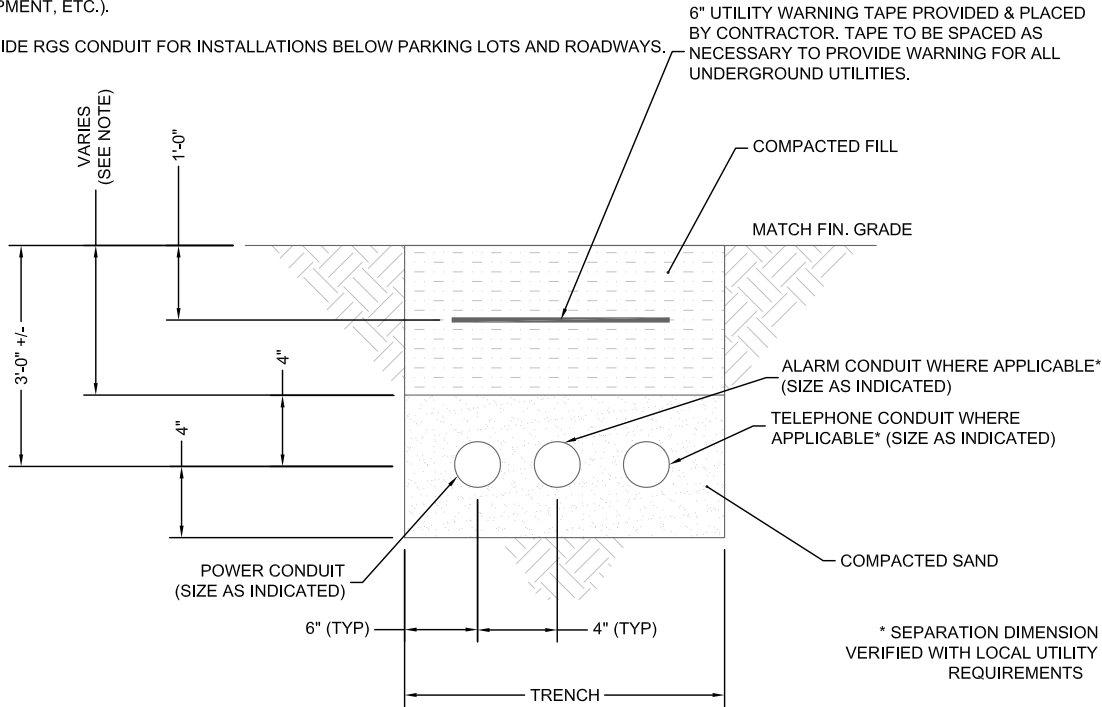
11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

NOTE:
CONTRACTOR TO INSTALL NUMBERED
MULE-TAPE IN ALL CONDUITS.

NOTE:
ALL CONDUIT TRENCHING, COVER, HORIZONTAL CLEARANCE, AND BACKFILL REQUIREMENTS SHALL BE PROVIDED AS NECESSARY TO MEET OR EXCEED THE GOVERNING CODE OR MANUFACTURER'S INSTALLATION REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

NOTES:

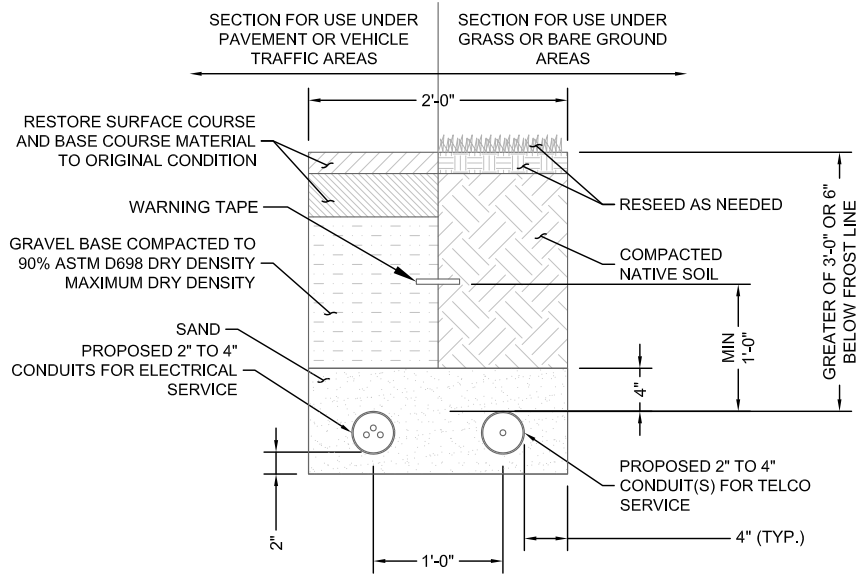
1. ACTUAL SEPARATION OF CONDUITS TO BE DETERMINED BY SITE SPECIFIC REQUIREMENTS.
2. UNDERGROUND CONDUIT TRENCH TO BE LOCATED AS CLOSE TO COMPOUND FENCE AS POSSIBLE WITHOUT COMPROMISING THE INTEGRITY OF THE FENCE.
3. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
4. PROVIDE RGS CONDUIT AND ELBOWS AT STUB-UP LOCATIONS (I.E. SERVICE POLES, EQUIPMENT, ETC.).
5. PROVIDE RGS CONDUIT FOR INSTALLATIONS BELOW PARKING LOTS AND ROADWAYS.



T-MOBILE TRENCH DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

NOTE:
CONTRACTOR TO INSTALL NUMBERED
MULE-TAPE IN ALL CONDUITS.



JOINT UTILITY TRENCH DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

SUMMARY OF ELECTRIC SERVICE CONSTRUCTIONS RESPONSIBILITIES

TECO: TEENA SIMPSON, 813-630-7280, TNDAMPIER@TECOENERGY.COM

- WILL SUPPLY AND INSTALL NEW DROP POLE WITHIN VB BTS ACCESS & UTILITY EASEMENT.
- WILL SUPPLY AND INSTALL NEW TRANSFORMER ON DROP POLE.
- WILL SUPPLY AND INSTALL NEW HANDHOLE AT BASE OF NEW DROP POLE.
- WILL SUPPLY AND INSTALL NEW CONDUCTOR FOR THE OVERHEAD PRIMARY SERVICE EXTENSION FROM TAKE-OFF POINT TO THE NEW TRANSFORMER.
- WILL SUPPLY AND INSTALL NEW CONDUCTOR FOR THE SECONDARY SERVICE EXTENSION FROM THE NEW TRANSFORMER TO THE NEW HANDHOLE.
- WILL SUPPLY AND INSTALL METERS.

VB BTS:

- ASSIST IN GETTING TECO'S NEEDED EASEMENT SIGNED BY PROPERTY OWNER.
- SUPPLY AND INSTALL CONDUIT AND CONDUCTOR FOR UNDERGROUND SECONDARY SERVICE FROM THE NEW HANDHOLE AT THE BASE OF THE NEW DROP POLE TO THE METER BANK.
 - CONDUIT RECOMMENDED IS TWO (2) SETS OF 4-INCH SCHEDULE 40 PVC WITH LARGE RADIUS (3-FEET) SCHEDULE 80 SWEEPS AT THE TRANSFORMER AND H-FRAME. ANY ABOVE GROUND CONDUIT NEEDS TO BE SCHEDULE 80.
 - CONDUIT TO BE BURIED A MINIMUM OF 24 TO 30-INCHES IN DEPTH.
 - CONDUCTOR RECOMMENDED IS TWO (2) SETS (ONE PER CONDUIT) OF THREE (3) 350-KCMIL COPPER XHHW FEEDERS.
 - CONFIRM DEPTH REQUIRED WITH LOCAL JURISDICTION.
- SUPPLY AND INSTALL NEW METER-BANK.
 - INSURE METER-BANK IS TECO-APPROVED. SEE APPROVED LIST ON TECO'S APPROVED METER EQUIPMENT ENCLOSURE LIST PROVIDED IN THE UTILITY COORDINATION REPORT
- INSURE INSTALLATION MEETS TECO'S STANDARD ELECTRIC SERVICE REQUIREMENTS.
- OBTAIN ALL REQUIRED ELECTRICAL PERMITS.
- COORDINATE ALL INSPECTIONS.

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DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

25283500000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

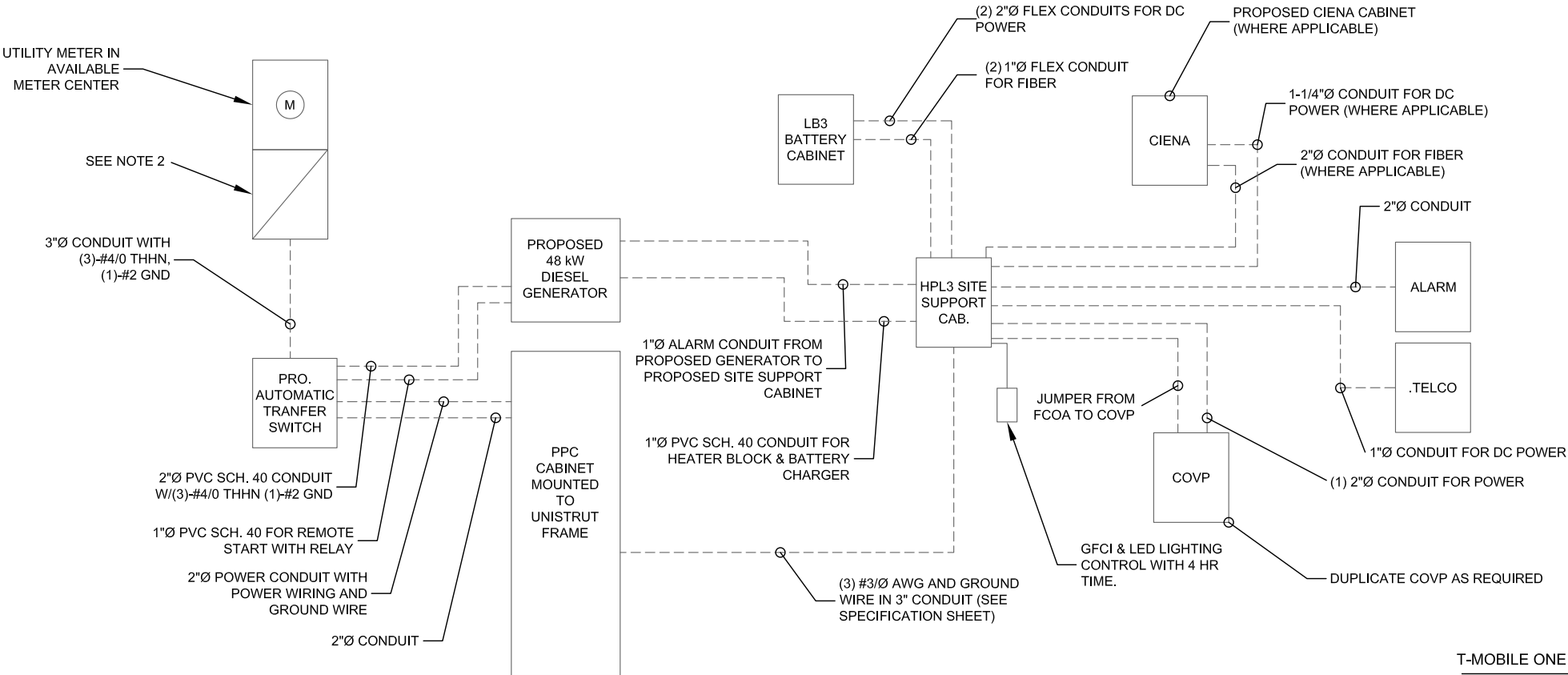
ELECTRICAL DETAILS

SHEET NUMBER:

E-3

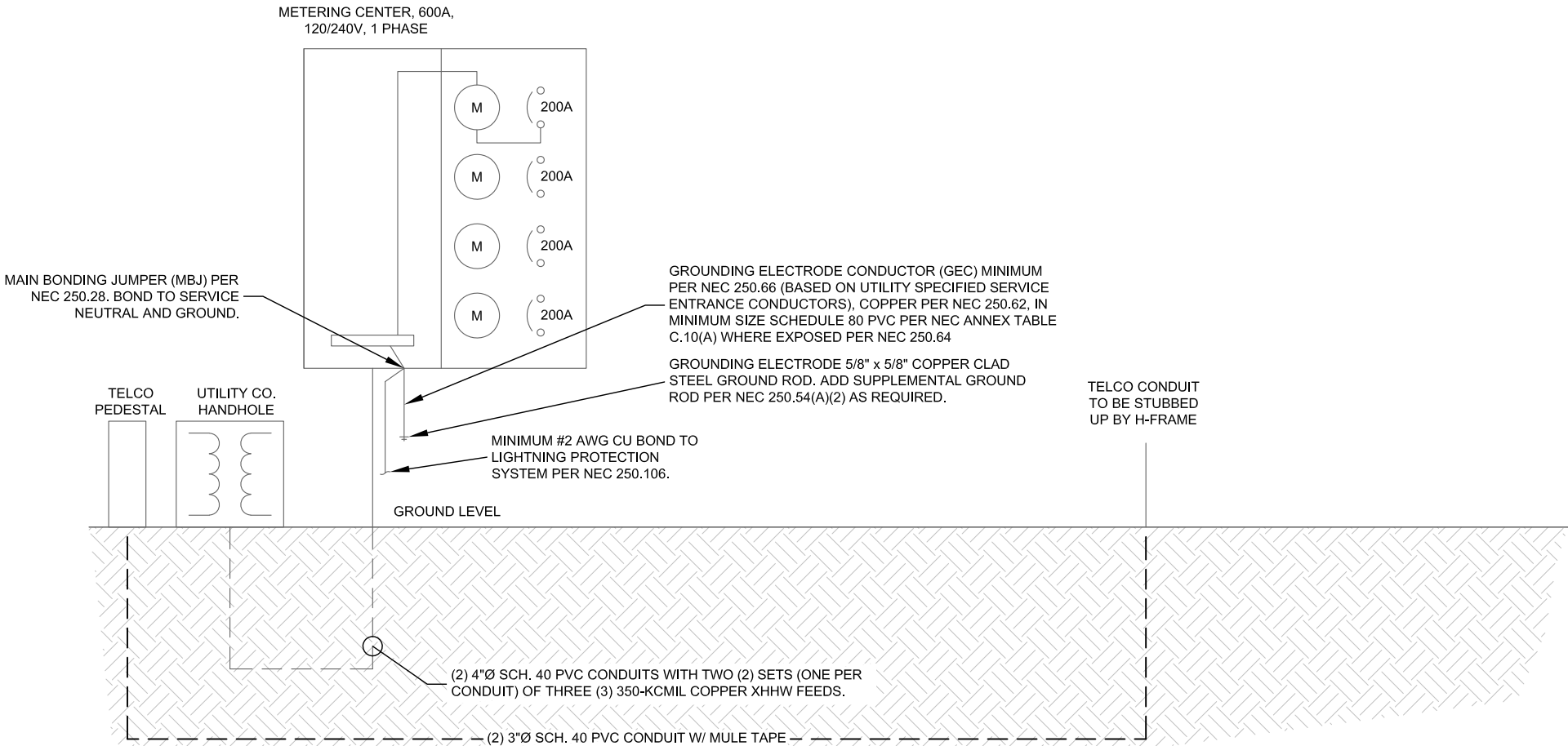
ONE-LINE DIAGRAM NOTES:

1. ELECTRICAL SERVICE SHALL BE 120/240V, 1Ø, 3W, 200A.
2. PROVIDE SERVICE ENTRANCE RATED CIRCUIT BREAKER TYPE DISCONNECT SWITCH.
3. FOR ALL WIRING, CONTRACTOR SHALL VERIFY CONDUCTOR WIRE/GROUND SIZE/TYPE AND CONDUIT SIZES WITH EQUIPMENT MANUFACTURERS SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE.
4. ALL EQUIPMENT SHALL MEET OR EXCEED FAULT CURRENT STANDARDS PER NEC 110.9.
5. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDANCE WITH CURRENT NATIONAL ELECTRIC CODES AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING AS REQUIRED TO MEET NEC.



T-MOBILE ONE LINE DIAGRAM

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



ELECTRICAL SINGLE-LINE DIAGRAM

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

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A2B2227A

PARCEL:

252835000000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

SINGLE LINE DIAGRAM

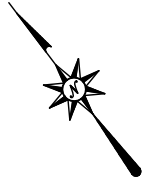
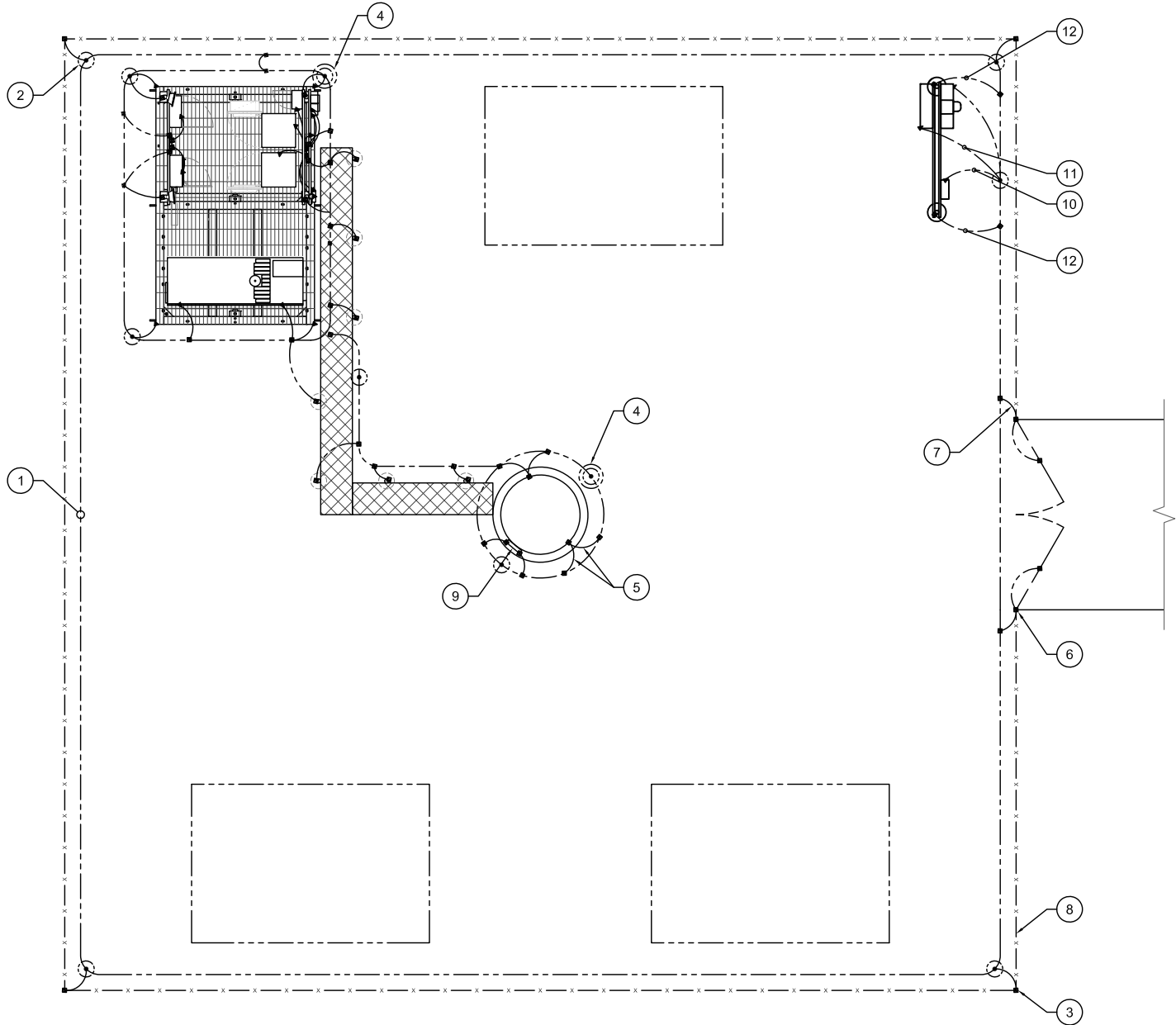
SHEET NUMBER:

E-4

- NOTES:
- ALL GROUNDING CONDUCTORS IN EARTH #2 SOLID BARE TINNED COPPER (SBTC).
 - ALL CONDUCTOR CONNECTION IN EARTH EXOTHERMICALLY WELDED.
 - ALL FENCE POST, TOWER LEGS, FRAME, ETC. METALLIC CONDUCTOR BONDS EXOTHERMICALLY WELDED.
 - ALL GROUND BAR CONNECTIONS MECHANICALLY BONDED WITH 2-HOLE CONNECTORS LISTED AND SUITABLE FOR THE APPLICATION.
 - MINIMUM 2-FT SEPARATION BETWEEN GROUND RINGS AND FOUNDATIONS IN ALL LOCATIONS.
 - EQUIPMENT CABINET, ICE BRIDGE & EQUIPMENT FRAME GROUNDING TO BE PIGTAILED ABOVE GRADE AT LOCATIONS DESIGNATED FOR FUTURE INSTALLATION OF GROUND EQUIPMENT.
 - BOND ALL EQUIPMENT, FRAMES, HYBRID/COAX CABLING, ETC. TO MAIN GROUND BAR.
 - ALL GROUND BARS AT GRADE ARE TO BE BONDED TO GROUND RING IN TWO PLACES WITH PARALLEL EXOTHERMIC WELDED PARALLEL CONNECTION AT GROUND RING (TYP.).

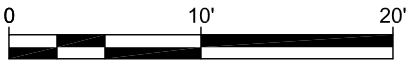
CALLOUTS:

- #2 SOLID BARE TINNED COPPER CONDUCTOR 30" BELOW GRADE OR 6" BELOW FROST LINE, WHICH EVER IS GREATER (TYP.) MINIMUM 24" BENDING RADIUS. SEE DETAIL SHEET G-2.
- 5/8"x10' COPPER CLAD GROUND ROD (MIN. 10' APART). SEE DETAIL SHEET G-3.
- BOND ALL CORNER POSTS. SEE DETAIL SHEET G-2.
- 5/8"Ø 10' LONG COPPER CLAD GROUND ROD WITH INSPECTION WELL, TOP OF GROUND ROD MAX 24" BURIED. SEE DETAIL SHEET G-3.
- BOND TOWER TO TOWER GROUND RING WITH 2 CONNECTIONS EACH DIRECTED IN OPPOSITE DIRECTIONS ON GROUND RING. SEE DETAIL SHEET G-2.
- #2 SOLID BARE TINNED COPPER LEADS (FROM GATE POST TO COMPOUND GROUNDING). SEE DETAIL SHEET G-2.
- BRAIDED STRAP CONNECTIONS (FROM GATE POST TO GATE).
- PROPOSED CHAIN LINKED FENCE. SEE DETAIL SHEET ###.
- LOWER TOWER GROUND BAR. SEE DETAIL SHEET G-3.
- GROUND PROPOSED METER AND DISCONNECT. SEE SHEET E-4.
- PROVIDE AN EXTERNAL #2 TINNED COATED GROUND LEAD FROM GROUND RING TO ALL METAL CABINETS ON UTILITY BACKBOARD (TELCO, ELECTRIC, BREAKER PANELS, METER RACKS, JUNCTION BOXES, ETC.) SLEEVED IN CONDUIT FROM JUST BELOW GRADE TO SAND CABINETS USING BURNDY TYPE 2 LONG BARREL LUGS WITH NO-OK OR COPPER SHIELD
- BOND THE #2 SOLID BARE TINNED COPPER LEADS FROM H-FRAME & EXOTHERMIC WELD TO COMPOUND GROUND RING



LEGEND	
---	#2 SOLID BARE TINNED COPPER CONDUCTOR
▲	MECHANICAL CONNECTION (BURNDY OR EQUIVALENT)
■	EXOTHERMIC CONNECTION (CADWELD OR EQUIVALENT)
⊙	INSPECTION WELL
⊙	5/8" DIA. X 10'-0" LONG, STEEL CLAD W/ A PURE COPPER JACKET (10' MIN. SEPARATION)

COMPOUND GROUNDING PLAN



11"x17" SCALE: 1" = 10'
24"x36" SCALE: 1" = 5'

LEGEND:

- | | | |
|---------|---------|---------------------|
| — OHP — | — OHP — | — E-OVERHEAD POWER |
| — X — | — X — | — P-FENCE |
| — X — | — X — | — E-CHAINLINK FENCE |
| — — — | — — — | — E-EASEMENT |
| — — — | — — — | — P-EASEMENT |
| — ROW — | — ROW — | — E-RIGHT OF WAY |
| — — — | — — — | — E-ROAD |
| — — — | — — — | — P-ROAD |
| — — — | — — — | — P-PROPERTY LINE |

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SHEET TITLE:
COMPOUND GROUNDING PLAN

SHEET NUMBER:
G-1

- NOTES:
- ALL GROUNDING CONDUCTORS IN EARTH #2 SOLID BARE TINNED COPPER (SBTC).
 - ALL CONDUCTOR CONNECTION IN EARTH EXOTHERMICALLY WELDED.
 - ALL FENCE POST, TOWER LEGS, FRAME, ETC. METALLIC CONDUCTOR BONDS EXOTHERMICALLY WELDED.
 - ALL GROUND BAR CONNECTIONS MECHANICALLY BONDED WITH 2-HOLE CONNECTORS LISTED AND SUITABLE FOR THE APPLICATION.
 - MINIMUM 2-FT SEPARATION BETWEEN GROUND RINGS AND FOUNDATIONS IN ALL LOCATIONS.
 - BOND ALL EQUIPMENT, FRAMES, HYBRID/COAX CABLING, ETC. TO MAIN GROUND BAR.
 - ALL GROUND BARS AT GRADE ARE TO BE BONDED TO GROUND RING IN TWO PLACES WITH PARALLEL EXOTHERMIC WELDED PARALLEL CONNECTION AT GROUND RING (TYP.).

CALLOUTS:

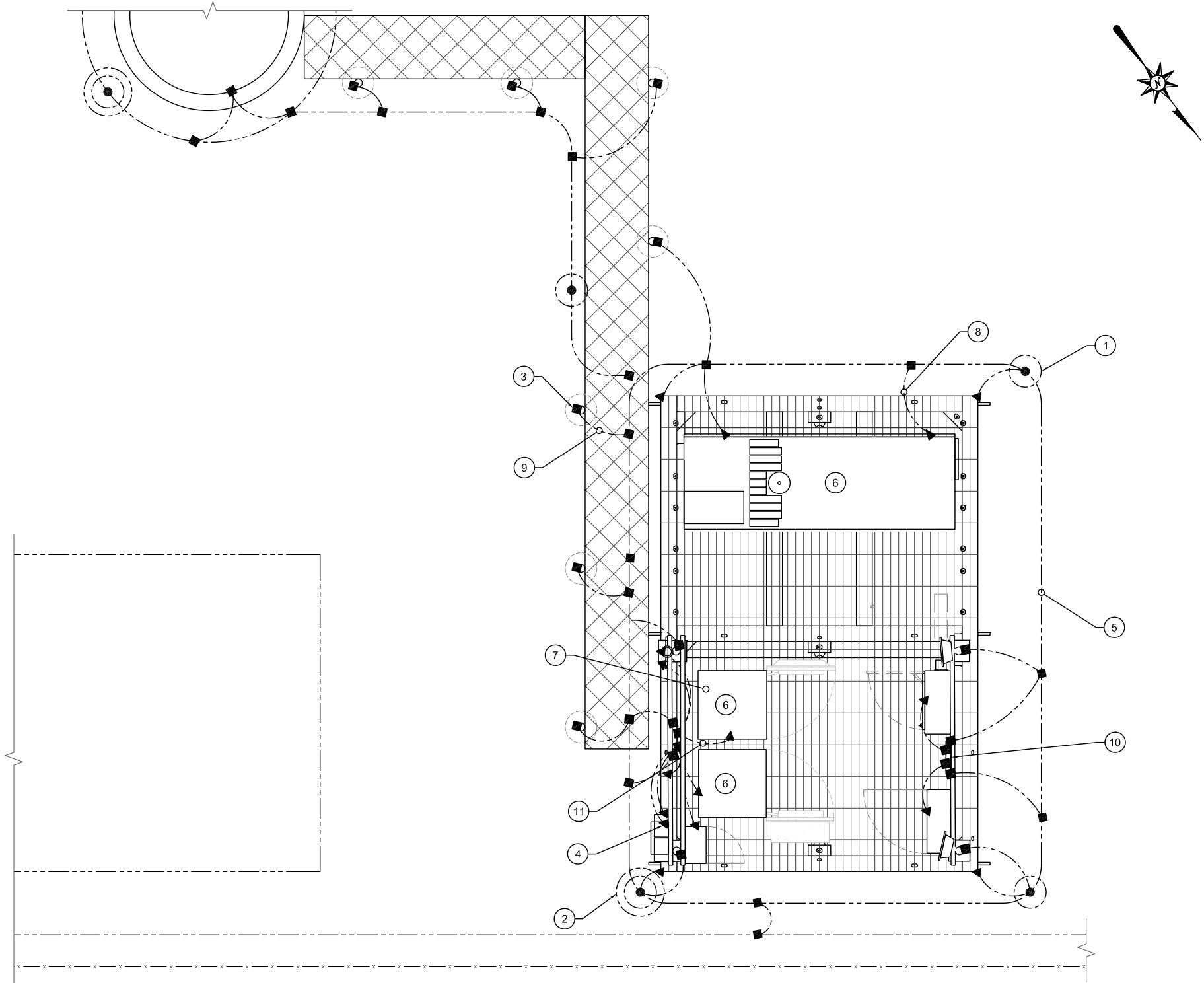
- 5/8"x10" COPPER CLAD GROUND ROD (MIN. 10' APART).
- GROUND ROD 5/8"ØX10' LONG WITH INSPECTION WELL (TYP.)
- EXOTHERMIC WELD CONNECTION TO ICE BRIDGE POST (TYP.)
- 2-HOLE LUG MECHANICAL CONNECTION (TYP.)
- #2 TINNED SOLID COPPER EQUIPMENT GROUND RING. (MINIUM 30" BELOW GRADE.)
- PROPOSED T-MOBILE EQUIPMENT (TYP.)
- GPS ANTENNA GROUND
- (2) #2 AWG BARE TINNED GROUND WIRE TO EQUIPMENT GROUND RING. GROUND GENERATOR PER MANUFACTURER'S RECOMMENDATION.
- #2 AWG ICE BRIDGE BOND BURIED 36" BFG (TYP. ALL POSTS)
- GROUND EQUIPMENT GROUND BAR
- #2 TINNED SOLID COPPER GROUND WIRE FROM GROUND RING TO BUSS BAR INSIDE CABINET.

LEGEND	
---	#2 SOLID BARE TINNED COPPER CONDUCTOR
▲	MECHANICAL CONNECTION (BURNDY OR EQUIVALENT)
■	EXOTHERMIC CONNECTION (CADWELD OR EQUIVALENT)
⊙	INSPECTION WELL
⊙	5/8" DIA. X 10'-0" LONG, STEEL CLAD W/ A PURE COPPER JACKET (10' MIN. SEPARATION)

T-MOBILE EQUIPMENT GROUNDING



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



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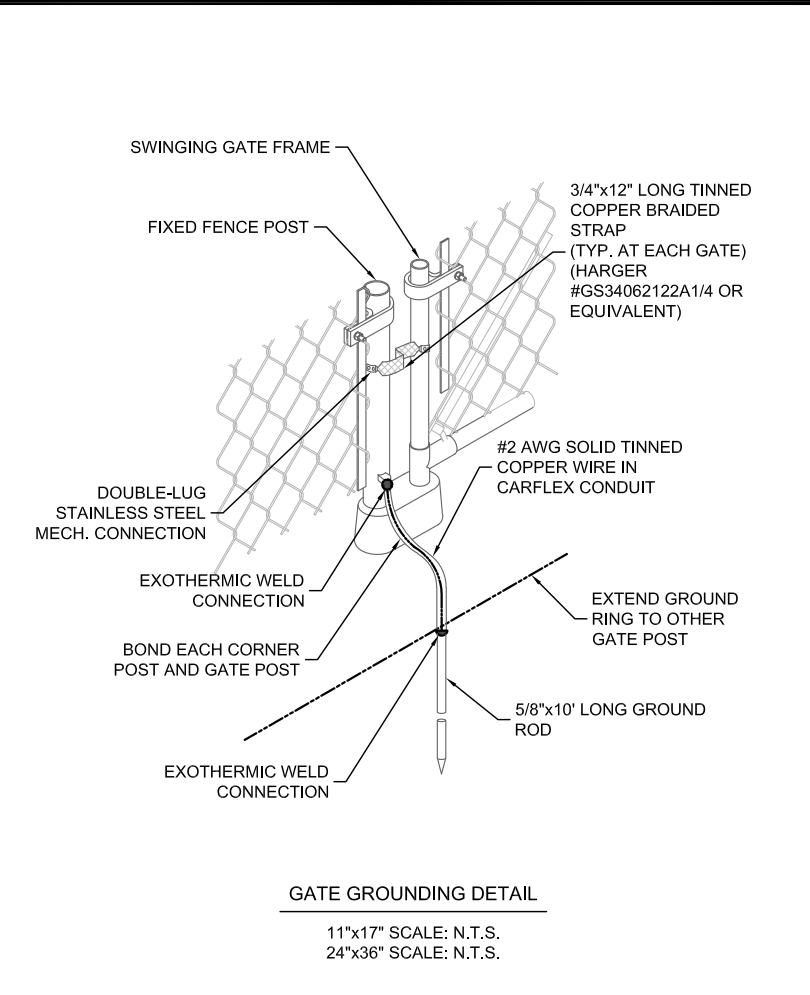
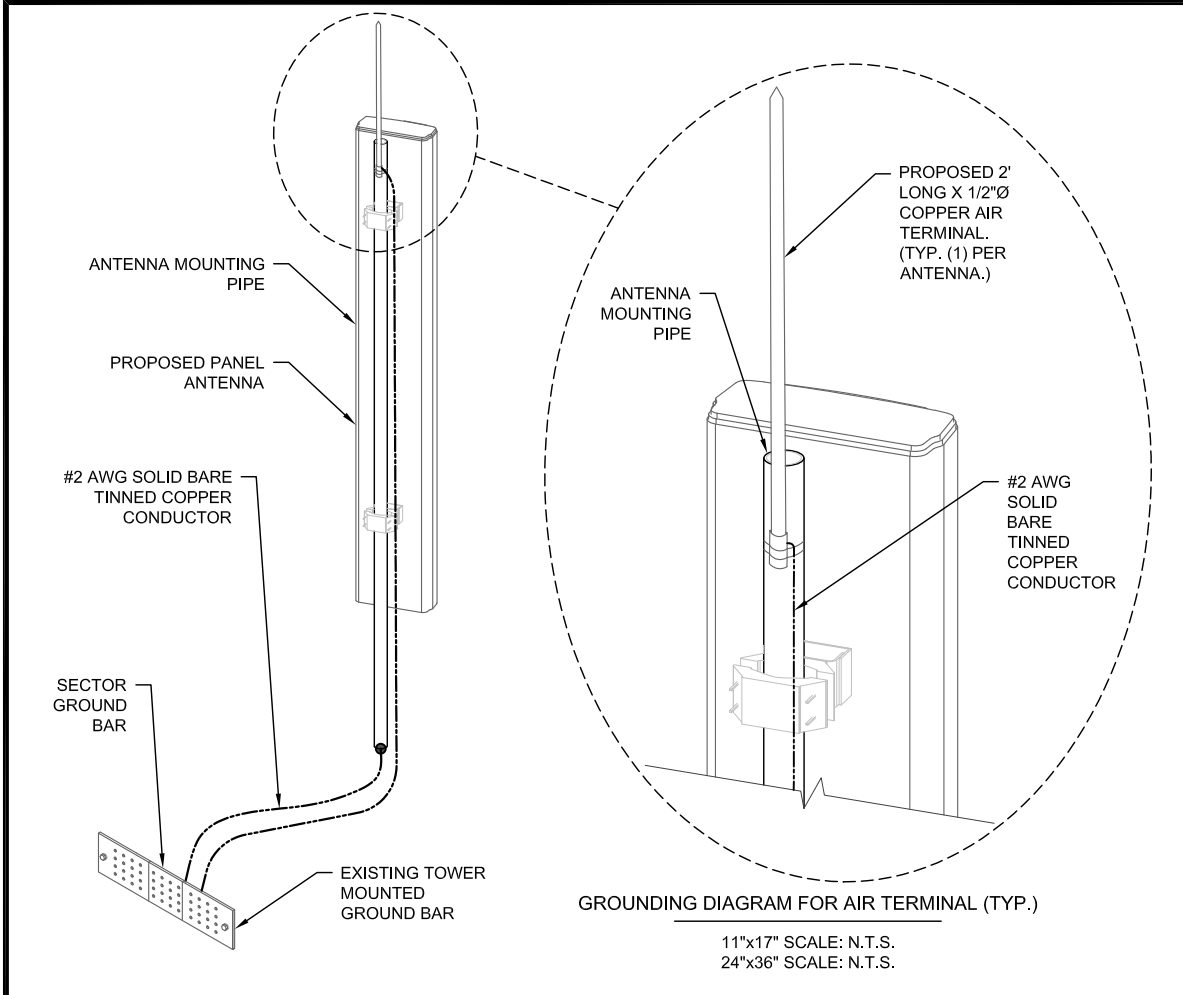
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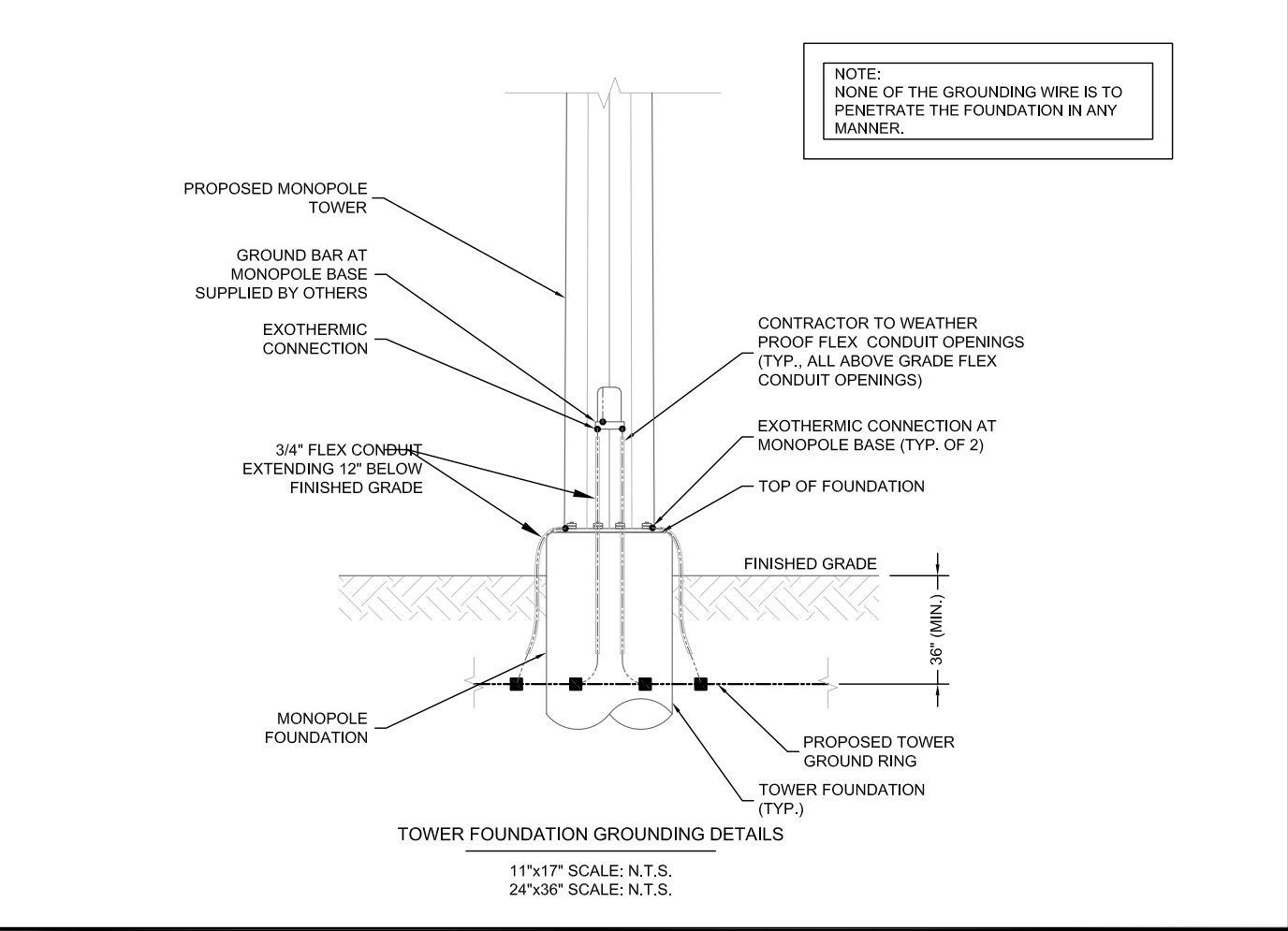
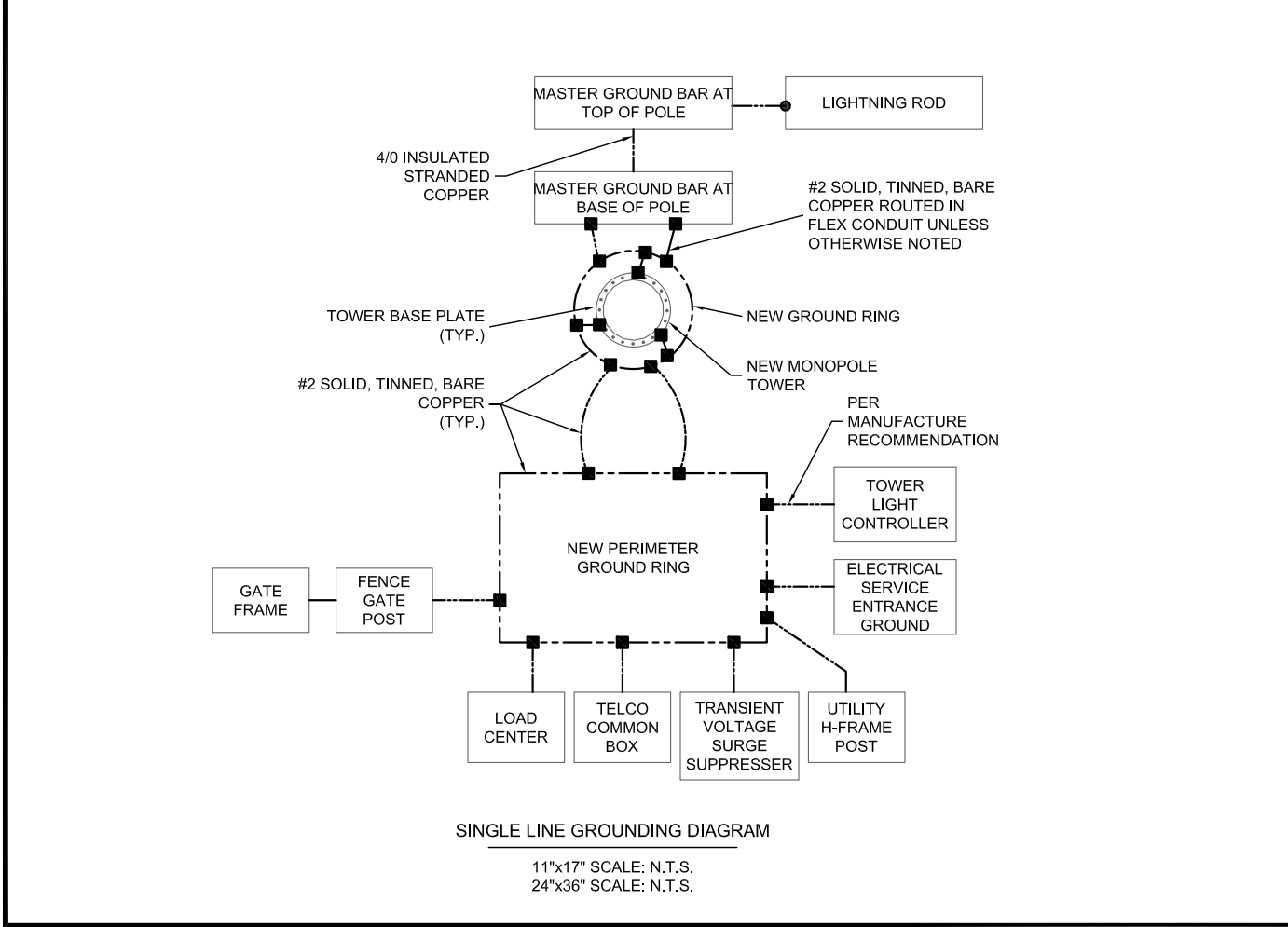
ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:
T-MOBILE GROUNDING PLAN

SHEET NUMBER:
G-1.1



SECTION
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FDH INFRASTRUCTURE SERVICES

ENGINEERING INNOVATION

FDH INFRASTRUCTURE SERVICES, LLC
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SUBMITTALS				
REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB

DENNIS DANIEL ABEL
LICENSE
No 62750
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140

SITE NAME:
HUNGRY HOWIE

T-MOBILE SITE ID:
A2B2227A

PARCEL:
252835000000023020

ADDRESS:
**3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880**

SHEET TITLE:
GROUNDING DETAILS

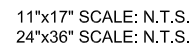
SHEET NUMBER:
G-2

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11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

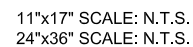


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24"x36" SCALE: N.T.S.



G-3

SECTION
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ELECTRICAL-GROUNDING ROD SYSTEM NOTES:

3. ALL GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC PROCESS CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, ETC. ALL CABLE TO GROUND RODS, GROUND RODS SPLICES, AND LIGHTNING PROTECTION SYSTEM AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING, METAL, TOOLS, ETC.) SHALL BE BY EXOTHERMIC PROCESS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS.
2. ALL EXOTHERMIC CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF SHERWIN-WILLIAMS GALVITE (WHITE) PAINT B50W3 (OR EQUAL) OR SHERWIN-WILLIAMS SILVERBRITE (ALUMINUM) B59S11 (OR EQUAL).
3. ALL ELECTRICAL & MECHANICAL GROUND CONNECTIONS SHALL HAVE A CONDUCTIVE RUST AND CORROSION INHIBITOR (T&B KOPR-SHIELD OR EQUIVALENT) APPLIED TO CONNECTION.
4. INSTALL ALL GROUND RODS VERTICALLY IN UNDISTURBED EARTH. WHERE SOLID ROCK IS ENCOUNTERED, INSTALL MAX 45° ANGLE AWAY FROM EQUIPMENT, TOWER, OR OTHER ABOVE GROUND ELEMENTS BEING PROTECTED.
5. GROUND RING AROUND BUILDING SHALL BE #2 SOLID TINNED BARE COPPER (SBTC), BARE TINNED COPPER CONDUCTOR, IN CONTACT WITH BARE EARTH AT A MINIMUM DEPTH OF 36". ALL CONDUCTOR BENDS SHALL NOT BE LESS THAN A MINIMUM RADIUS OF 24".
6. THE FENCE AND GATE POSTS SHALL BE BONDED TO THE GROUNDING SYSTEM WITH #2 SBTC EXOTHERMICALLY WELDED TO THE POST. BOND SWING GATE TO GATE POST WITH #4/0 FLEXIBLE COPPER STRANDED CONDUCTOR (WELDING CONDUCTOR OR SIMILAR). ALL CONNECTIONS SHALL BE EXOTHERMICALLY WELDED WITH COLD-GALVANIZED PAINT APPLIED AFTER WELDING.
7. BOND ALL CONDUCTIVE ELEMENTS TO GROUNDING SYSTEM THAT ARE WITHIN 5-FT OF ANY PART OF GROUNDING SYSTEM OR WITHIN 20-FT OF TOWER RING USING SIMILAR SYSTEMS AS APPLIED TO FENCE CORNER POSTS.
8. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO THE SPECIFIC SITE CONDITIONS.

9. UTILITY COMPANY COORDINATION: ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL WORK IS IN ACCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY BEFORE SUBMITTING THE BID, THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THIS PROJECT AND SHALL DETERMINE FROM THEM ALL EQUIPMENT AND CHARGES WHICH THEY WILL REQUIRE AND SHALL INCLUDE THE COSTS IN THE BID.

10. THIS GROUNDING SYSTEM HAS BEEN DESIGNED TO ACHIEVE A RESISTANCE MEASUREMENT PERFORMANCE OF 5 OHMS OR LESS. SHOULD THE RESULT NOT ACHIEVE THIS DESIRED PERFORMANCE, CONTACT ENGINEER FOR FURTHER ACTION.

11. GROUND RINGS ARE TO BE INSTALLED A MINIMUM OF 2'-0" FROM EQUIPMENT AND TOWER.

ELECTRICAL-GROUNDING ROD SYSTEM NOTES:

1. GROUND RODS SHALL BE INSTALLED NO CLOSER THAN 10-FT APART.
2. GROUND RODS SHALL BE INSTALLED WITH TOPS AT THE SAME DEPTH AS GROUNDING SYSTEM CONDUCTOR (RING OR RADIAL).
3. ALL BELOW GRADE GROUND RINGS AND GROUND LEADS SHALL BE #2 AWG SOLID, TINNED BARE COPPER WIRE.
4. ALL BELOW GROUND CONNECTIONS SHALL BE EXOTHERMIC WELDS.
5. UNLESS PROVIDED WITH A FACTORY APPLIED LEAD, ALL CONNECTIONS TO GROUND BARS SHALL BE BURNDY HYGROUND COMPRESSION LUGS OR EQUAL.
6. STEEL SHALL BE TO BARE METAL, GRIND GALV. FINISH OR PAINT OFF PRIOR TO WELDING, REPAIR GALV. FINISH OR PAINT AS REQUIRED, MATCH PAINT COLOR.
7. ALL LUG CONNECTORS SHALL BE 2 HOLE LONG BARREL COMPRESSION TYPE OR APPROVED EQUAL.
8. ALL HARDWARE TO ATTACH MECHANICAL GROUND CONNECTIONS SHALL BE STAINLESS STEEL.
9. ALL MECHANICAL CONNECTIONS SHALL HAVE CONDUCTIVE ANTI-OXIDANT COMPOUND APPLIED BETWEEN COMPRESSION LUG AND FIXTURE.

LEAD IDENTIFICATION & DESCRIPTION:

1A	RING, EXTERNAL BURIED W/RODS	#2 SBTC	25	RING TO NEAREST LIGHTNING ROD	#2 SBTC
2	RING, CONCRETE ENCASED	#2 SBTC	26	LIGHTNING ROD SYS TO NEARBY MTL	NFPA 780
3	DEEP ANODE (TO IMPROVE OHMS)	ROD OR PIPE	27	RING TO TOWER RING	(2) #2 SBTC
4	RING TO BLDG STL FRAME	#2 SBTC	28	RING TO SHELTER RING	(2) #2 SBTC
	MAN AC PANEL NEUTRAL BUS TO (2)		29	BRANCH AC PNL TO BTTY CHG FRM	NSTD33-11
	GROUND RODS, ISOLATED FROM LEAD #1	NEC 250.66	30	BRANCH AC PNL TO OUTLETS	NSTD33-11
5	RING TO GROUND BAR	(2) #2 SBTC	31	MBG/FGB TO PWR, BTTY FRAMES	#2/0 I-STR
6	RING TO EXT MTL OBJECT	#2 SBTC	32	#31 TO BATTERY CHARGER FRAME	#6 I-STR
7	DEEP ANODE TO MGB	NSTD33-9	33	#31 TO BATTERY RACK FRAME	#6 I-STR
8	AC PANEL TO WATER METER	NEC 250.66	34	#31 TO PCU FRAME	#6 I-STR
9	EXT WATER TO INT WATER PIPES	NSTD33-9	35	#31 TO DCU FRAME	#6 I-STR
10	INT WATER PIPE TO MGB	NSTD33-9	36	#31 TO PCU FRAME	#6 I-STR
11-12	NOT USED		37	MBG/FGB TO BTTY RETURN	NSTD33-14.5
13	AC PANEL TO MGB	NSTD33-9	37A	MBG/FGB TO RTN TERM CARR SUPP	#6 I-STR
14	MBG/FGB TO BLDG STL FRAME	#2/0 I-STR	38	FGB TO PDU GB	#750MCM I-STR
14C	MBG/FGB TO ROOF/WALL MTL PNL	#1/0 I-STR	38A	FGB TO PDU GB CARRIER SUPPLY	#2/0 I-STR
15	MBG/FGB TO FGB-HE SAME FLOOR	#2/0 I-STR	39	DC BUS DUCT TO NEXT SECTION	#6 I-STR
16	NOT USED		40	DC BUS DUCT TO MGB/FGB	#6 I-STR
16A	ECPGB TO CABLE ENTRY RACK	#1/0 I-STR	41A	MBG/FGB TO #58	#2/0 I-STR
17	MGB TO CABLE SHIELDING	#6 I-STR	42-44	NOT USED	
17A	ECPGB TO CABLE SHIELDING	#6 I-STR	45	MAIN AC PNL TO BRANCH AC PNL	NSTD33-11
17B	MBG/FGB TO F-0 SPLICE SHELF	#1 I-STR	46	BRANCH AC PNL TO DED OUTLET	NSTD33-11
18	LOWEST MGB/FGB TO HIGHEST FGB	#2/0 I-STR	47	FGB TO INTEG FRM	#2 I-STR
19	LEAD 18 TO OTHER FGB, <6'	#2/0 I-STR	48	LEAD #31 TO INTEG FRM	#6 I-STR
20	MBG/FGB TO BRANCH AC PNL	#6 I-STR	49	INTEG FRM TO EQUIP SHELF	BY FASTENERS
20A	NEAREST GRIND TO DISCONNECT PNL	NEC 250.66	50	PDU BTTY RET TO #51	#2/0 I-STR
20B	GWB TO AC DISTR PNL	#6 I-STR	51	#50 TO TRANS FROM ISO DC PWR	#6 I-STR
21	MBG/FGB TO INT HALO	#2 I-STR	52	TRANS FRM FUSE TO FRM OR BAR	#8 I-STR
21A	INTERIOR 'GREEN' HALO	#2 I-STR	53A	MBG/FGB TO PDF/BDFB	NSTD33-22
21B	INT HALO TO EXT RING	#2 SBTC	54	MBG/FGB TO STATIC DEVICES	#6 I-STR
21C	INT HALO TO EQUIPMENT MTL	#6 I-STR	55	MBG/FGB TO CABLE AT ENTRY	#6 I-STR
22	ROOF TOWER RING TO ROOF GRND	NFPA 780	56	MBG/FGB TO AC PWR RADIO XMTR	#6 I-STR
23	MBG/FGB TO ECPGB, SAME FLOOR	#1 I-STR	57A	MBG/FGB TO CBLGRID/RUNWAY	#2/0 I-STR
23A	MBG/FGB TO CXR-HF LINR PROT	#6 I-STR	58A	#41A TO AISLE FRAME	#2 I-STR
24	ECPGB TO EACH PROTECTOR ASSEMBLY	#6 I-STR	59A	#58A TO EACH SGL FRAME GRND	#6 I-STR
24A	LOWER PROT ASSY TO UPPER	#6 I-STR	60-89	NOT USED	
			90	GENERATOR FRAME TO EXT RING	#2 SBTC

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SUBMITTALS

[illegible]

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STATE LICENNSE NO. 62750

FDH JOB NUMBER

PR-008353

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US-FL-7140

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ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

GROUNDING NOTES

SHEET NUMBER:

G-4

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE PROJECT AND ABIDE BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO FDH FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
3. INCORRECTLY FABRICATED, DAMAGED, OTHERWISE MISFITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO FDH PRIOR TO ANY REMEDIAL OR CORRECTIVE ACTION. ALL ACTIONS SHALL REQUIRE FDH APPROVAL.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AFTER THE COMPLETION OF THE PROJECT.
5. CONTRACTOR SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE AND RESTORE AS BEST AS POSSIBLE TO PRECONSTRUCTION CONDITION.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED.

SUBSTITUTES AND/OR EQUALS:

1. IF CONTRACTOR WISHES TO FURNISH OR USE A SUBSTITUTE ITEM OF MATERIAL OR EQUIPMENT, CONTRACTOR SHALL FIRST MAKE WRITTEN APPLICATION TO ENGINEER OF RECORD FOR ACCEPTANCE THEREOF, CERTIFYING THAT THE PROPOSED SUBSTITUTE WILL PERFORM ADEQUATELY THE FUNCTIONS AND ACHIEVE THE RESULTS CALLED FOR BY THE GENERAL DESIGN, BE SIMILAR IN SUBSTANCE TO THAT SPECIFIED AND SUITED TO THE SAME USE AS THAT SPECIFIED. ALL VARIATIONS OF THE PROPOSED SUBSTITUTE FROM THAT SPECIFIED WILL BE IDENTIFIED IN THE APPLICATION AND AVAILABLE MAINTENANCE, REPAIR AND REPLACEMENT SERVICE WILL BE INDICATED. THE APPLICATION WILL ALSO CONTAIN AN ITEMIZED ESTIMATE OF ALL COSTS OR CREDITS THAT WILL RESULT DIRECTLY OR INDIRECTLY FROM ACCEPTANCE OF SUCH SUBSTITUTE INCLUDING COSTS OF REDESIGN AND CLAIMS OF OTHER CONTRACTORS AFFECTED BY THE RESULTING CHANGE, ALL OF WHICH WILL BE CONSIDERED BY ENGINEER OF RECORD IN EVALUATION OF THE PROPOSED SUBSTITUTE. ENGINEER OF RECORD MAY REQUIRE CONTRACTOR TO FURNISH ADDITIONAL DATA ABOUT THE PROPOSED SUBSTITUTE.

CONTRACTOR NOTES:

1. GENERAL CONTRACTOR MUST BE FAMILIARIZED WITH THE STRUCTURAL PLANS AND HOW THEY INTERACT WITH OTHER SPECIALTIES PLANS (ARCHITECTURAL, M.E.P., ETC). ALTHOUGH TRADE COORDINATION HAS BEEN PERFORMED, FDH SHALL BE CONTACTED IMMEDIATELY IN CASE THE CONTRACTOR FINDS ANY MISSING, AMBIGUOUS, UNCLEAR OR CONFLICTING INFORMATION.
2. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. SHOULD THE CONTRACTOR REQUIRE DIRECT CONSULTATION, FDH IS WILLING TO OFFER SERVICES BASED UPON AN AGREED FEE FOR THE WORK REQUIRED.
3. THE CONTRACTOR SHALL ALWAYS KEEP ON SITE THE LATEST REVISION OF THE SIGNED AND SEALED STRUCTURAL PLANS, APPROVED SHOP DRAWINGS AND PRODUCT APPROVALS.
4. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL ACTIVITIES RELATED TO WORK SAFETY.
5. CONSTRUCTION LOADS SHOULD BE CAREFULLY DISTRIBUTED TO AVOID LOADING ANY MEMBERS IN EXCESS OF THEIR CAPACITY.
6. THE APPROVAL BY THE STRUCTURAL INSPECTOR OF ANY WORK DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE FLORIDA BUILDING CODE AND THE APPROVED STRUCTURAL PLANS.
7. NEITHER THE PROFESSIONAL ACTIVITIES OF FDH NOR THE PRESENCE OF FDH OR EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE GENERAL CONTRACTOR AND OR SUBCONTRACTORS AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, AND WARRANTS THAT THIS INTENT IS EVIDENT BY ACCEPTING THIS WORK.
8. ALL SUBMITTAL INFORMATION MUST BE SENT TO FDH 6521 MERIDIEN DRIVE, RALEIGH, NC 27616, TEL. (919) 755-1012, FAX. (919) 755-1031, E-MAIL STRUCTURAL@FDH-IS.COM. ANY VARIATION OF THESE SPECIFICATIONS OR DRAWINGS WITHOUT CONSENT FROM FDH WILL VOID ANY RESPONSIBILITY OR LIABILITY FOR DAMAGE (MATERIAL OR PHYSICAL) TOWARDS FDH.

COLD GALVANIZATION/SURFACE PREPARATION NOTES:

1. CONTRACTOR TO USE ZINGA OR ZRC COLD GALVANIZATION COMPOUNDS OR APPROVED EQUIVALENT.
2. PREPARE RUSTED/CORRODED SURFACE FOR TREATMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR TO APPLY (2) COATS OF COLD GALVANIZATION COMPOUND PER MANUFACTURER'S RECOMMENDATION. DRYING AND CURING TIMES MUST BE UTILIZED PER MANUFACTURER'S RECOMMENDATION.
4. APPLY ALL COATINGS BY BRUSH IN CALM WIND CONDITIONS. THE USE OF AEROSOL IS NOT PERMITTED.
5. IF THE STRUCTURE IS PAINTED, BRUSH PAINT ALL TREATED AREAS TO MATCH STRUCTURE AFTER COLD GALVANIZATION COMPOUND IS ALLOWED TO CURE.

STEEL:

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODES AND ASTM SPECIFICATIONS.
2. MATERIALS:
 - HOT-ROLLED STRUCTURAL SHAPES = ASTM A992.
 - PIPES = ASTM A53 GRADE B.
 - RECTANGULAR HSS = ASTM 500 GRADE B-46
 - PLATES = ASTM A36.
 - ANGLES = ASTM A36.
 - BOLTS = ASTM A325.
 - NUTS = ASTM A194.
 - WASHERS = ASTM F436.
 - ANCHOR RODS = ASTM F1554 GRADE 105.
 - ELECTRODES = E-70XX
3. ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED WELDS WITH WELDING ELECTRODES NOTED IN THE MATERIALS LIST ABOVE OR SPECIFIED HIGH STRENGTH BOLTS TO BE ASTM A325N, THREAD INCLUDED WITH SHEAR PLANE (UNLESS NOTED OTHERWISE).
4. ALL BOLTED CONNECTIONS TO BE INSTALLED TO A SNUG-TIGHTENED CONDITION IN ACCORDANCE WITH AISC 13 PART 16.2, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", SECTION 8.1, UNLESS OTHERWISE SPECIFIED. WHEN "X" TYPE BOLTS ARE USED, CONTRACTOR MAY BE REQUIRED TO STACK ADDITIONAL WASHERS TO OBTAIN PROPER SNUG TIGHT INSTALLATION. ALL NUTS SHALL BE HEAVY HEX UNLESS NOTED OTHERWISE.
5. ALL STEEL, AFTER FABRICATION, SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123, UNLESS NOTED OTHERWISE. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH MULTIPLE COATS OF ZRC COLD GALVANIZING COMPOUND ACHIEVING A MINIMUM OF 4 MILS DRY FILM PER ASTM A 780.
6. A490 OR 354-GR. BD BOLTS SHALL NOT BE HOT DIPPED GALVANIZED, MECHANICALLY OR ELECTROPLATED.
7. ALL A490 OR 354-GR. BD BOLTS SHALL BE COATED WITH A ZINC/ALUMINUM COATING (MAGNI 565 OR APPROVED EQUAL) PER ASTM F2833, BY THE BOLT MANUFACTURER.
8. CONTRACTOR TO PROVIDE FULL DOCUMENTATION ON A490 OR 354-GR. BOLTS PRIOR TO INSTALLATION.
9. ALL SHOP AND FIELD WELDING SHALL BE DONE BY WELDERS QUALIFIED AS DESCRIBED IN THE "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. CONTRACTOR IS REQUIRED TO PROVIDE FDH WITH A PASSING CERTIFIED WELDING INSPECTION FOR ALL WELDS.
10. STRUCTURAL STEEL MAY NOT BE TORCH CUT FOR FABRICATION. ALL STEEL FABRICATION MUST FOLLOW AISC STANDARDS.

PROJECT CODES USED:

1. ALL STRUCTURAL ELEMENTS FOR THIS PROJECT HAVE BEEN DESIGNED PER 2018 INTERNATIONAL BUILDING CODE, 6TH EDITION, 2017. THIS IMPLIES THE USE OF THE BELOW LISTED CODES.
- ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - ASCE 24-14, FLOOD RESISTANT DESIGN AND CONSTRUCTION.
 - ASCE 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
 - ASCE 303-16, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
 - ASCE 348-14 / 2014 RCSC, SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS.
 - FEMA P-55, COASTAL CONSTRUCTION MANUAL.

FABRICATION NOTES:

1. ALL DIMENSIONS ARE PRELIMINARY UNTIL FIELD VERIFIED BY CONTRACTOR. ANY CHANGES MUST BE APPROVED BY ENGINEER OF RECORD IN WRITING PRIOR TO FABRICATION AND INSTALLATION.
2. NEW STEEL MEMBERS MUST HAVE SINGLE DRILLED HOLES. SLOTTED AND DOUBLE DRILLED HOLES ARE NOT ACCEPTABLE MEANS OF FABRICATION.

SURFACE PREPARATION:

1. PREPARE SURFACE TO BE WELDED BY REMOVING PAINT OR GALVANIZATION TO BARE METAL USING POWER WIRE BRUSHING IN ACCORDANCE WITH SSPC-SP11, (STEEL STRUCTURES PAINTING COUNCIL). FOLLOWING POWER WIRE BRUSHING CONTRACTOR SHALL POLISH METAL SURFACE WITH HIGH SPEED GRINDER WITH 400+ GRIT SANDPAPER.
2. AFTER NEW STEEL INSTALLATION CONTRACTOR TO BRUSH PAINT (2) COATS OF ZRC OR ZINGA COLD GALVANIZATION COMPOUND PER MANUFACTURER'S SPECIFICATIONS.

WELDING NOTES:

1. ALL WELDING TO THE EXISTING TOWER SHALL BE PERFORMED BY CERTIFIED WELDERS UTILIZING PROCEDURES QUALIFIED IN ACCORDANCE WITH AWS D1.1 AND AWS C5.4.
2. CONTRACTOR SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". CONTRACTOR SHALL SUBMIT CERTIFICATION OF WELDERS TO THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.
3. CONTRACTOR RESPONSIBLE FOR TEMPORARY HEAT SHIELDING AS REQUIRED DURING WELDING.
4. CONTRACTOR RESPONSIBLE FOR VIEWING EXISTING TOWER FOR LOOSE AND FLAMMABLE MATERIAL PRIOR TO WELDING FLAT PLATE.
5. ALL WELDS TO BE VISUALLY INSPECTED BY A CERTIFIED WELD INSPECTOR PER AWS D1.1.

VB

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WINTER HAVEN, FL 33880

SHEET TITLE:

PLATFORM STRUCTURAL
NOTES 1

SHEET NUMBER:

SN-1

LOADING SPECIFICATIONS:

1. GRAVITY LOADING (ASCE 7-16, CHAPTER, TABLE C3-1 & C3-2).
- REINFORCED CONCRETE = 150 LB/FT³
 - STEEL = 490 LB/FT³
 - STEEL GRATING = 13 LB/FT²
 - EQUIPMENT = 1400 LB/FT²
2. LIVE LOADING (ASCE 7-16, CHAPTER 4)
- LIVE = 40 PSF.
 - HANDRAIL = 200 LB
 - LADDER RUNG = 300 LB.
 - LADDER RAIL = 100 LB
3. WIND LOADING (ASCE 7-16, CHAPTER 26, 29 AND APPENDIX D)
- RISK CATEGORY = II
 - WIND SPEED = 140 MPH
 - EXPOSURE = C
 - BUILDING TYPE = OPEN STRUCTURE
 - MRH = 2.5 FT
 - KD = 0.85
 - G = 0.85
 - RATIO OF SOLID TO GROSS AREA = 0.20
 - CF = 1.8
 - F(z) = 55.1 PSF
 - PER APPENDIX D, NO TORSIONAL FORCES WERE CONSIDERED IN THE ANALYSIS.
4. SEISMIC LOADING (ASCE 7-16, CHAPTER 11 AND 12)
- RISK CATEGORY = II
 - SITE CLASS = D
 - S_s = 0.057
 - S_i = 0.031
 - FA = 1.6
 - FV = 2.4
 - TL = 8
 - SEISMIC DESIGN CATEGORY = A
 - T = 0.05 SEC
 - R = 3.5
 - CS = 0.2930
 - V = 0.13 KIP
 - SEISMIC LOADING DOES NOT CONTROL THE ANALYSIS
5. LOADING COMBINATION FOR STRENGTH DESIGN (ASCE 7-16, CHAPTER 2)
- 1.4 DEAD
 - 1.2 DEAD+ 1.6 LIVE + 0.5 SNOW
 - 1.2 DEAD + 1.6 SNOW + 0.5 WIND
 - 1.2 DEAD + 1.0 WIND + 1.0 LIVE + 0.5 SNOW
 - 0.9 DEAD + 1.0 WIND
 - 1.2 DEAD + 1.0 SEISMIC + 1.0 LIVE + 0.2 SNOW
 - 0.9 DEAD + 1.0 SEISMIC
 - 1.2 DEAD + 1.0 WIND + 2.0 FLOOD + 1.0 LIVE + 0.5 SNOW
 - 0.9 DEAD + 1.0 WIND + 2.0 FLOOD
6. LOADING COMBINATION FOR SERVICEABILITY CONSIDERATIONS (ASCE 7-16, APPENDIX C AND COMMENTARIES)
- VERTICAL DEFLECTION SHORT TERM LOADING:
 - 1.0 DEAD + 1.0 LIVE
 - VERTICAL DEFLECTION LONG TERM LOADING:
 - 1.0 DEAD + 0.5 LIVE.
 - DRIFT OF FRAMES:
 - 1.0 DEAD + 0.5 LIVE + 1.0 Wa
 - Wa= 92 MPH: WIND LOAD BASED ON SERVICEABILITY WIND SPEED FIGURE CC-2.
7. DEFLECTION DESIGN CRITERIA (ASCE 7-16, APPENDIX C AND COMMENTARIES)
- VERTICAL DEFLECTION LIMIT: SPAN / 240
 - HORIZONTAL DEFLECTION LIMIT: HEIGHT / 1400

FOUNDATION CONCRETE:

1. WORK SHALL BE IN ACCORDANCE WITH THE LATEST ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
2. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 19 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 4500 PSI IN 28 DAYS SATISFYING THE PARAMETERS BELOW:
- SLUMP = 2 IN
 - W/C = 0.45
 - REBAR COVER = 3 IN
 - REBAR GRADE (NOT TO BE WELDED) = ASTM-615-60
 - REBAR GRADE (TO BE WELDED) = ASTM-706-60
 - MAXIMUM AGGREGATE SIZE = 1.5 IN
3. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL, AND OTHER OCCURRENCES THAT MAY DECREASE THE STRENGTH OR DURABILITY OF THE CONCRETE.
4. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. CONCRETE SHALL BE PLACED ON UNDISTURBED SOIL, AND LOOSE CUTTINGS SHALL BE REMOVED FROM SIDES OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
5. IN COLD WEATHER CONDITIONS, WORK SHALL BE IN ACCORDANCE WITH ACI 306.1-90 (REAPPROVED 2002). SEE ACI 306 FOR DESCRIPTION OF COLD WEATHER CONDITIONS.
6. SULFATE RESISTANT CEMENT SHALL BE USED IN AREAS WHICH ARE KNOWN TO HAVE HIGH SULFATES IN SOIL AND GROUND WATER.
7. SLUMP TEST SHALL BE PERFORMED ON-SITE TO ENSURE WORKABILITY OF CONCRETE.
8. ALL TEST CYLINDERS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C31. COMPRESSION TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM C39.
9. CYLINDERS TO BE BROKEN ON DAYS 7 AND 28. (2) ADDITIONAL CYLINDERS SHOULD BE AVAILABLE FOR ANY ADDITIONAL TESTING.
10. A SUFFICIENT SAMPLING OF CONCRETE SHALL BE TAKEN TO ENSURE A FAIR REPRESENTATION OF THE CONCRETE USED FOR ALL SLUMP AND COMPRESSION TESTS. NON-COMFORMING MATERIAL SHALL NOT BE ACCEPTED BY CONTRACTOR.

FOUNDATION REINFORCEMENT:

1. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE NOTED.
2. REINFORCEMENT SHALL BE PROPERLY PLACED PRIOR TO ANY CONCRETE PLACEMENT. REINFORCING SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE.
3. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
4. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES. REBAR CHAIRS MUST BE USED TO ENSURE THE 3 INCH MINIMUM COVER. CONCRETE BLOCKS ARE NOT TO BE USED TO OBTAIN MINIMUM COVER.
5. ALL STIRRUPS SHALL HAVE MINIMUM 135° HOOKS PLUS 6"D_b EXTENSIONS AT FREE ENDS AROUND CORNER LONGITUDINAL BAR UNLESS OTHERWISE NOTED.

FOUNDATION NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
2. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
3. ALL WORK PRESENTED ON THESE DRAWINGS IS TO BE COMPLETED BY THE CONTRACTOR UNLESS OTHERWISE NOTED AND/OR AGREED TO WITH FDH INFRASTRUCTURE SERVICES.
4. THE CONTRACTOR MUST HAVE EXPERIENCE IN PERFORMANCE OF WORK DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT THEY HAVE SUFFICIENT EXPERIENCE, ABILITY, AND KNOWLEDGE OF WORK TO BE PERFORMED AND THAT THEY ARE PROPERLY LICENSED, REGISTERED, AND/OR ENSURED TO PERFORM THIS WORK.
5. CONTRACTOR IS REQUIRED TO HAVE ALL NECESSARY INSPECTIONS PERFORMED BY THE LOCAL BUILDING CODE OFFICIAL OR AN APPROVED AGENCY.
6. FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ANY ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED UPON CONDITIONS EXISTING AT THE SITE.
7. ALL HARDWARE ASSEMBLY AND MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED; ANY CONTRADICTION BETWEEN THE MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS ARE TO BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER AND OWNER.
8. ANY CONTRACTOR INSTALLING ADHESIVE ANCHORING SYSTEMS SHALL BE TRAINED, IN PERSON BY A MANUFACTURER'S REPRESENTATIVE, ON THE PROPER INSTALLATION TECHNIQUES. THIS TRAINING SHALL INCLUDE PROPER DRILLING, HOLE CLEANING, AND INSTALLATION METHODS FOR THE ADHESIVE ANCHORING SYSTEM AND CONSTRUCTION CONDITIONS ON THIS PROJECT. ALL TRAINING TO BE CONDUCTED PRIOR TO CREWS STEPPING ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT MANUFACTURER REPRESENTATIVE TO SET UP TRAINING. FDH IS NOT RESPONSIBLE FOR ANY COST OCCURRED FOR OR DURING ADHESIVE ANCHORING SYSTEM TRAINING.
9. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, INITIATING, MAINTAINING, LAYOUT, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THE WORK COMPLIES WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS.
10. ALL DIMENSIONS AND/OR ELEVATIONS, OR SIMILAR EXISTING CONDITIONS SHOWN ON THE DRAWING ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIAL ORDERING, FABRICATION, OR CONSTRUCTION WORK. ANY DISCREPANCIES ARE TO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER/OWNER. DISCREPANCIES MUST BE RESOLVED BEFORE CONTRACTOR IS TO PROCEED WITH THE WORK.
11. FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH THE LIMITS OF THE SUBSURFACE DATA PROVIDED. APPLICABLE CODES ARE ACI-318. SHOULD SUBSURFACE CONDITIONS VARY FROM THOSE VALUES USED IN THE DESIGN, THEN FDH INFRASTRUCTURE SHOULD BE NOTIFIED IMMEDIATELY.
12. FOUNDATION BACKFILL SHALL BE PLACED IN 8-INCH MAXIMUM LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AND WITHIN ±2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR). ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 LBS PER CUBIC FOOT.
13. ANY EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.
14. CONTRACTOR TO PROVIDE A "SAFE WORKING" SOIL SLOPE AND/OR TEMPORARY SOIL SHORING PER ALL APPLICABLE SAFETY CODES & REGULATIONS DURING CONSTRUCTION.
15. THE FOUNDATION HAS BEEN DESIGNED BASED ON THE GEOTECHNICAL REPORT BY FDH INFRASTRUCTURE SERVICES, SITE NAME: HUNGRY HOWIE, PROJECT NUMBER PR-008353.

CONCRETE TESTING:

1. SLUMP TEST SHALL BE PERFORMED ON-SITE TO ENSURE WORKABILITY OF CONCRETE.
2. ALL TEST CYLINDERS SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C31. COMPRESSION TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM C39.
3. CYLINDERS TO BE BROKEN ON DAYS 7 AND 28. (2) ADDITIONAL CYLINDERS SHOULD BE AVAILABLE FOR ANY ADDITIONAL TESTING.
4. A SUFFICIENT SAMPLING OF CONCRETE SHALL BE TAKEN TO ENSURE A FAIR REPRESENTATION OF THE CONCRETE USED FOR ALL SLUMP AND COMPRESSION TESTS. NON-COMFORMING MATERIAL SHALL NOT BE ACCEPTED BY CONTRACTOR.

BASE PLATE GROUT:

1. WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
2. AS A MINIMUM, GROUT SHALL DEVELOP A COMPRESSIVE STRENGTH OF 5000 PSI MIN. IN 28 DAYS.
3. GROUT SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF GROUT MATERIALS.
4. LOOSE MATERIAL SHALL BE REMOVED PRIOR TO GROUT PLACEMENT. ANY FAYING SURFACES MUST BE FREE OF DIRT, GREASE, SCALE, ETC., AND UNSOUD GROUT MUST BE CHIPPED OUT.
5. MATERIAL SPECIFICATIONS SHALL BE IN ACCORDANCE WITH ASTM C1107-02, STANDARD SPECIFICATIONS FOR PACKAGED DRY, HYDRAULIC-CEMENT GROUT (NONSHRINK).
6. LEVELING NUT TIGHTNESS CHECK: WHEN CHECKING FOR NUT TIGHTNESS, ALWAYS TURN THE SPUD WRENCH IN THE DIRECTION TO TIGHTEN THE NUT AGAINST THE BASE PLATE. USING THE SPUD WRENCH AND THE FULL EFFORT OF A PERSON, CHECK THE LEVELING NUT FOR TIGHTNESS AND THE NUT ATOP THE BASE PLATE FOR TIGHTNESS.
7. PLACEMENT TEMPERATURES AND CURING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
8. THE GROUT SHALL BE INSTALLED TO PROVIDE BEARING TO THE ENTIRE BASE PLATE SURFACE.

VB

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Mobile

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FDH

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ENGINEERING INNOVATION

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SUBMITTALS				
REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB

DENNIS DANIEL ABEL

LICENSE

No 62750

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140

SITE NAME:
HUNGRY HOWIE

T-MOBILE SITE ID:
A2B2227A

PARCEL:
252835000000023020

ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

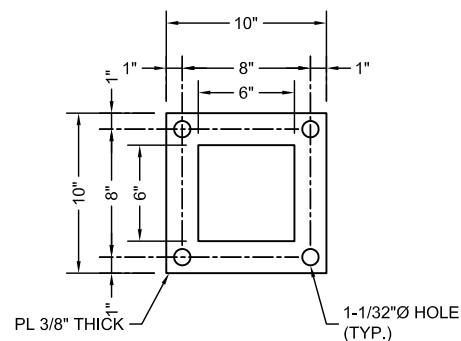
SHEET TITLE:
PLATFORM STRUCTURAL
NOTES 2

SHEET NUMBER:
SN-2

-

1
S-1

DETAIL
SCALE: NTS






2
S-1

DETAIL
SCALE: NTS

3
S-1

DETAIL
SCALE: NTS

FOUNDATION MATERIAL LIST				
PART NO.	SHAPE	QTY. ¹	LENGTH	DESCRIPTION
R-1		8	10'-0"±	#6 REBAR
R-2 ²		20	7'-11"±	#4 REBAR W/ 135° HOOKS 3" O.C. FROM +0'-3" TO -2'-9" 12" O.C. FROM -2'-9" TO -9'-9"
-	-	4	4'-0"±	1 "Ø F1554 GRADE 105 ANCHOR RODS (3'-3" MINIMUM EMBEDMENT INTO NEW CAISSON)
-	-	2	-	TEMPLATE PLATE (SEE DETAIL 3 ON THIS SHEET)
-	-	20	-	HEAVY HEX NUT
-	-	8	-	ROUND HARDENED WASHER
-		1	2.0± CU. YD.	4500 PSI CONCRETE

NEW 2'-6"Ø CONCRETE PIER

9" MAX.

3" MAX.

1 1/4" MAX.

3" MIN. COVER (TYP.)

6"

GRADE

R-1 (TYP.)

R-2 (TYP.)

3" MIN. COVER (TYP.)

12 SPACES @ 3" = 4'-0"

10'-0"

7 SPACES @ 12" = 6'-6"

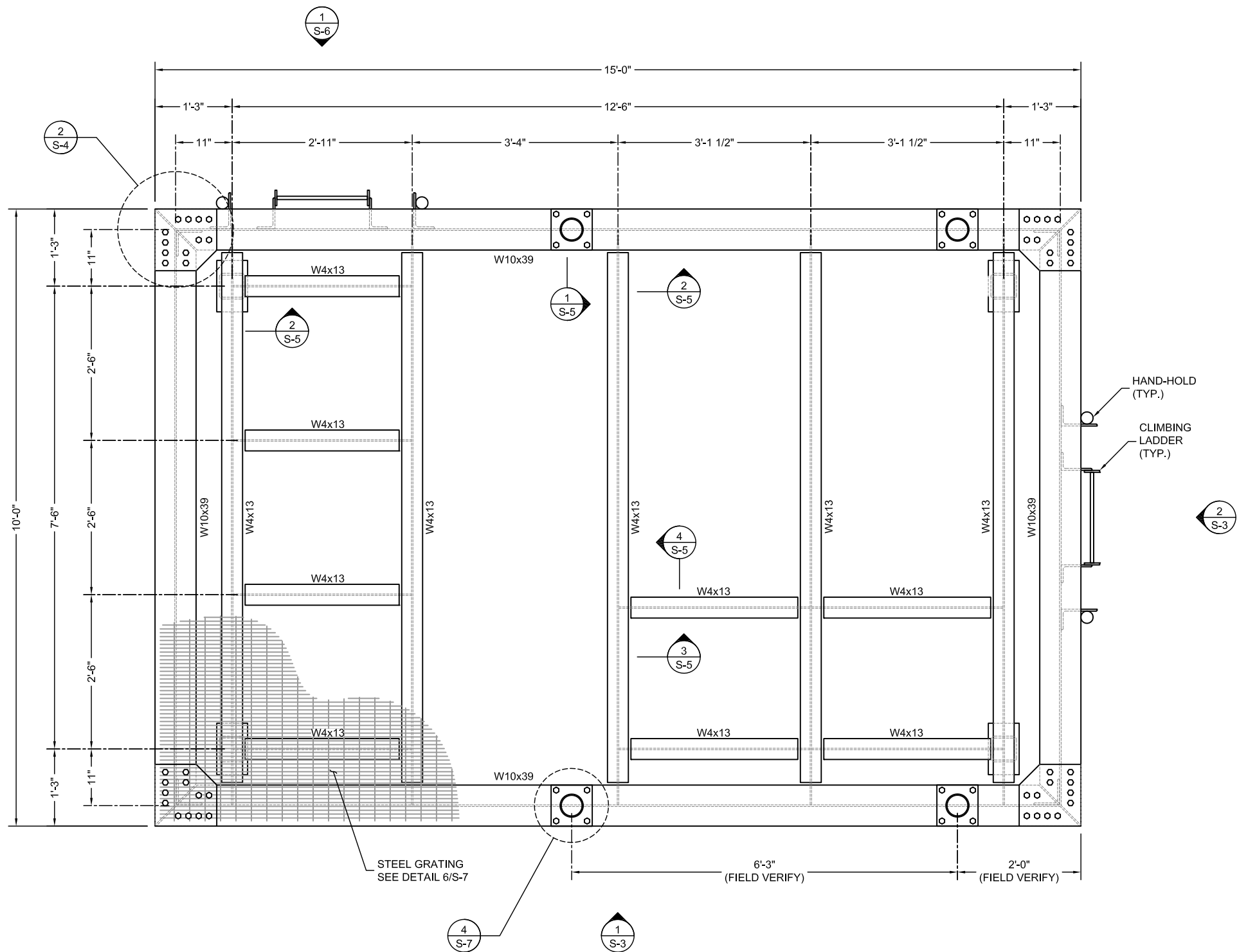
(4) 1"Ø x 4'-0" LONG F1554 GRADE 105 ANCHOR RODS. MINIMUM EMBEDMENT DEPTH OF 3'-3" INTO NEW CAISSON.

NEW ANCHOR ROD TEMPLATE PLATE, SEE DETAIL 3/S-1 (TYP. TOP & BTM.)

4
S-1

DETAIL
SCALE: NTS

[illegible]



STEEL PLATFORM FRAMING
PLAN VIEW

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

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FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

252835000000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

PLATFORM FRAMING PLAN

SHEET NUMBER:

S-2

VB
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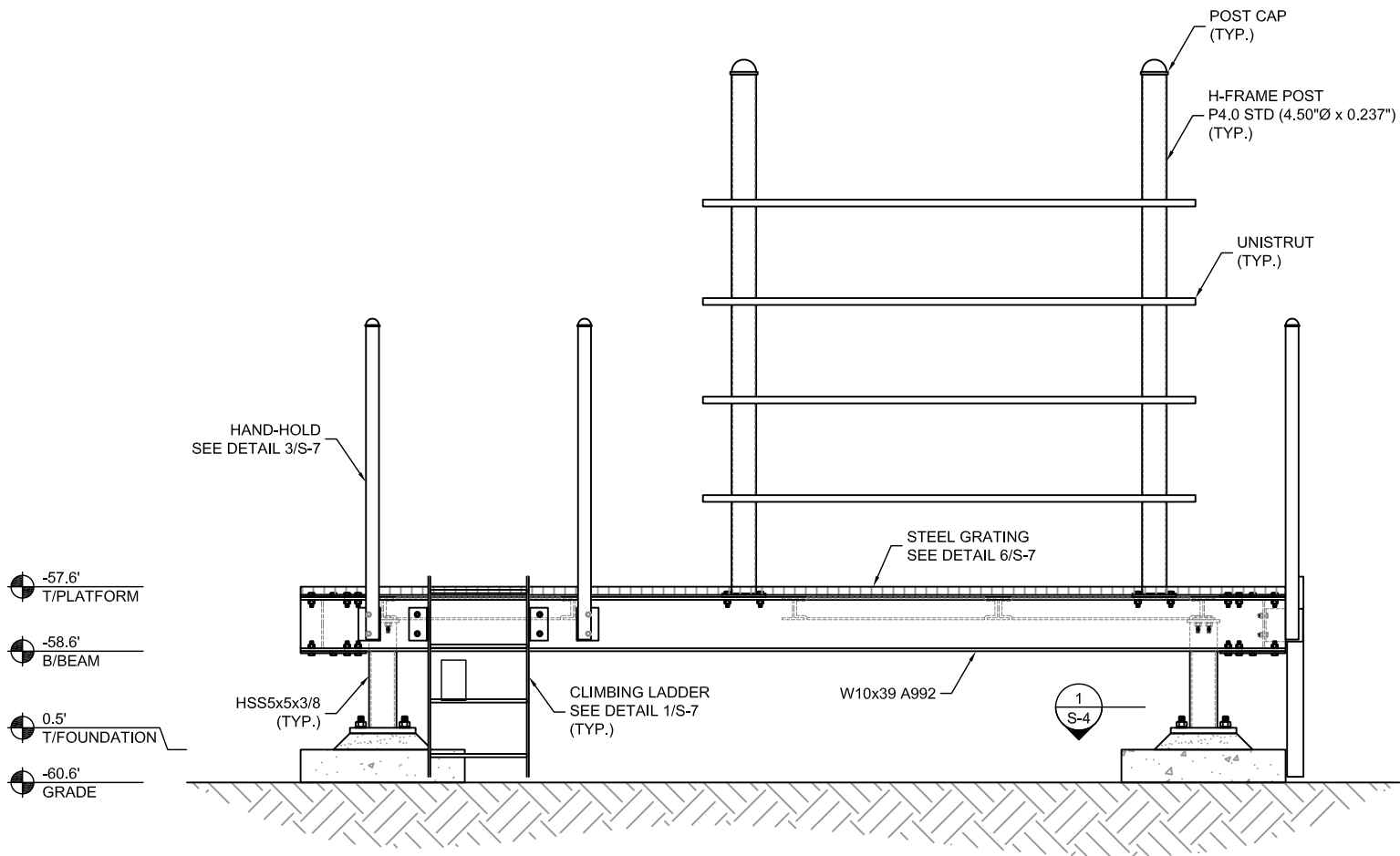
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WINTER HAVEN, FL 33880

SHEET TITLE:

PLATFORM PROFILES

SHEET NUMBER:

S-3

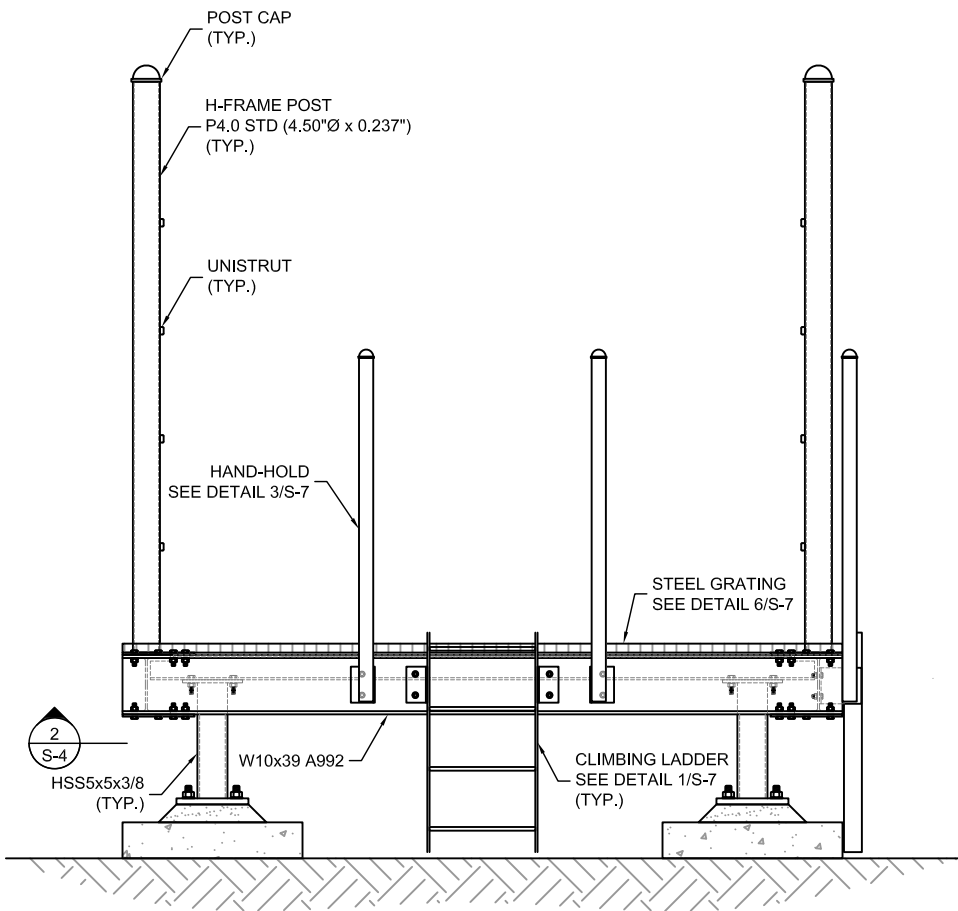


STEEL PLATFORM
FRONT VIEW

1
S-3

ELEVATION

3/8" = 1'-0"

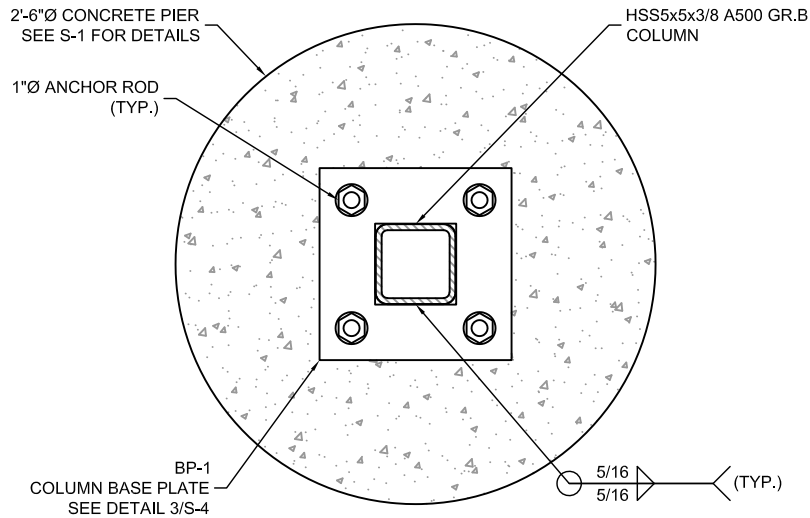


STEEL PLATFORM
SIDE VIEW

2
S-3

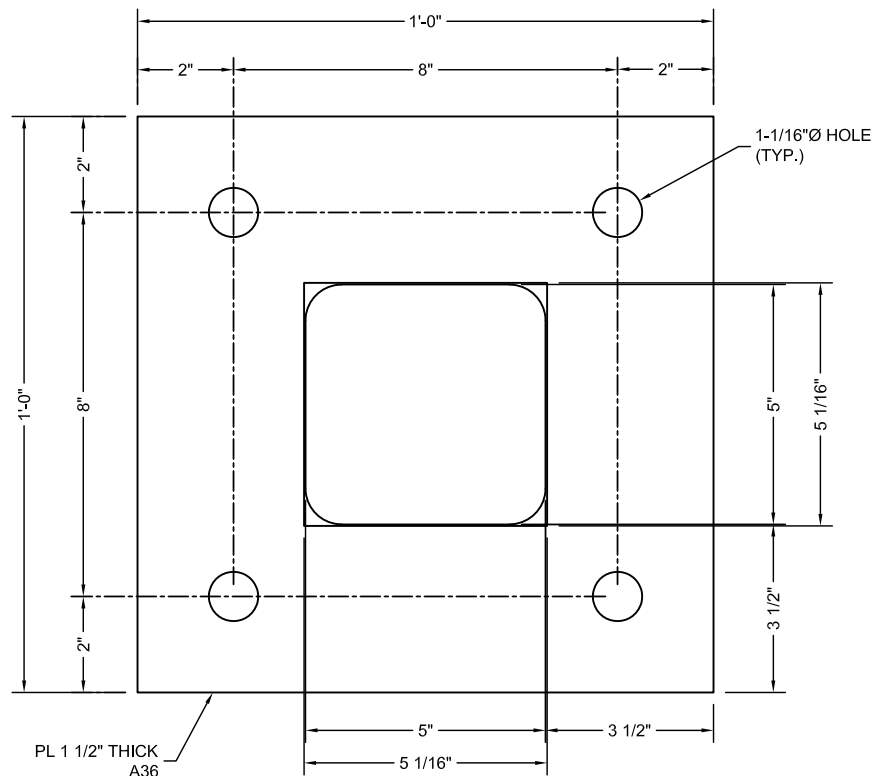
ELEVATION

3/8" = 1'-0"



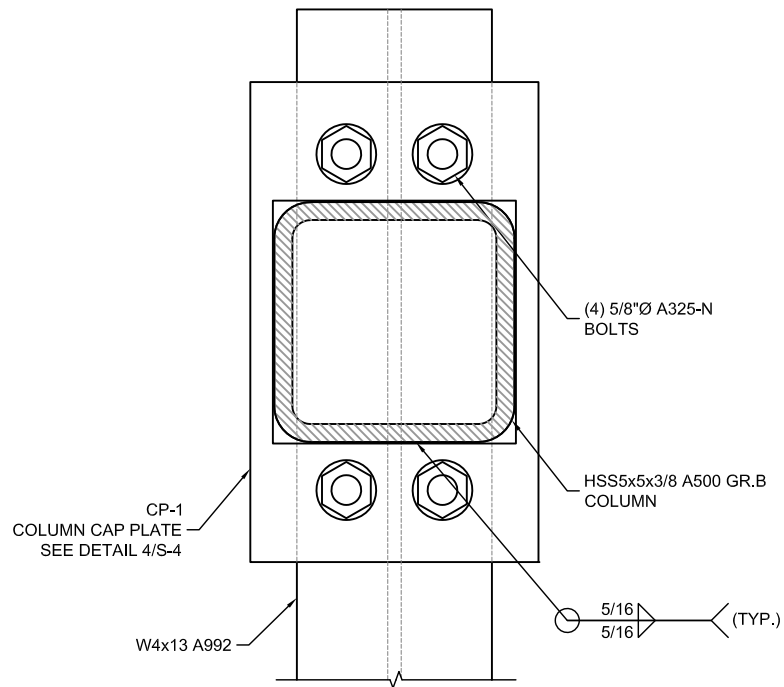
COLUMN BASE PLATE
PLAN VIEW

1
S-4
SECTION
NTS



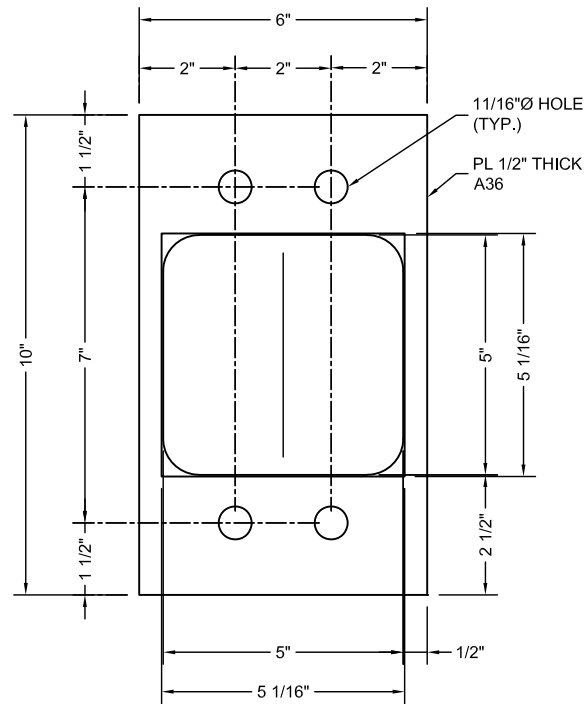
BP-1 COLUMN BASE PLATE
TOP VIEW

3
S-4
DETAIL
NTS



COLUMN CAP PLATE
PLAN VIEW

2
S-4
SECTION
NTS



CP-1 COLUMN CAP PLATE
FRONT VIEW

4
S-4
DETAIL
NTS

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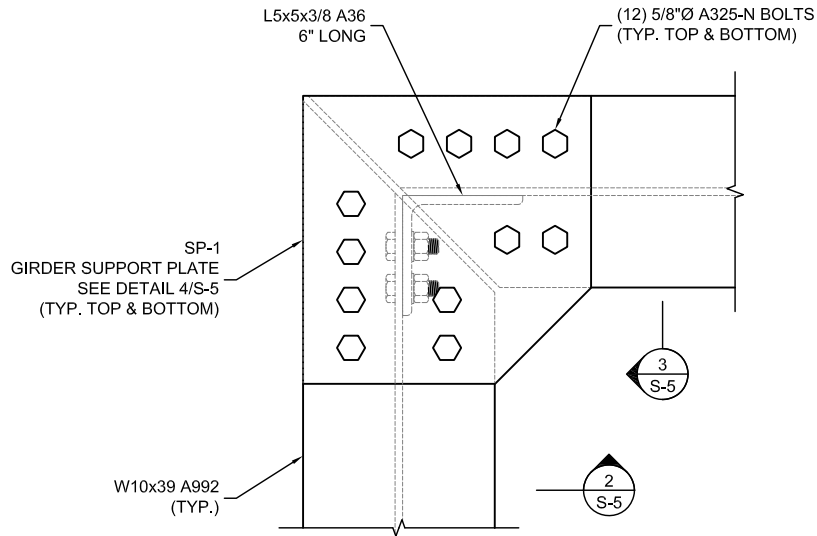
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ADDRESS:
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WINTER HAVEN, FL 33880

SHEET TITLE:
PLATFORM CONNECTION
DETAILS I

SHEET NUMBER:
S-4

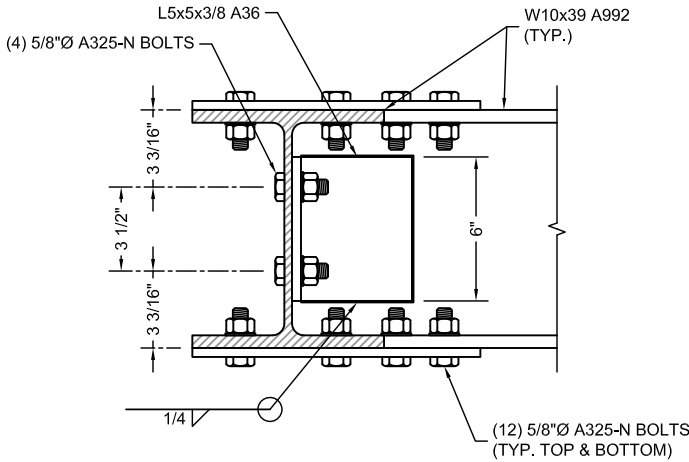


PERIMETER GIRDER CONNECTION DETAIL
PLAN VIEW

1
S-5

SECTION

NTS

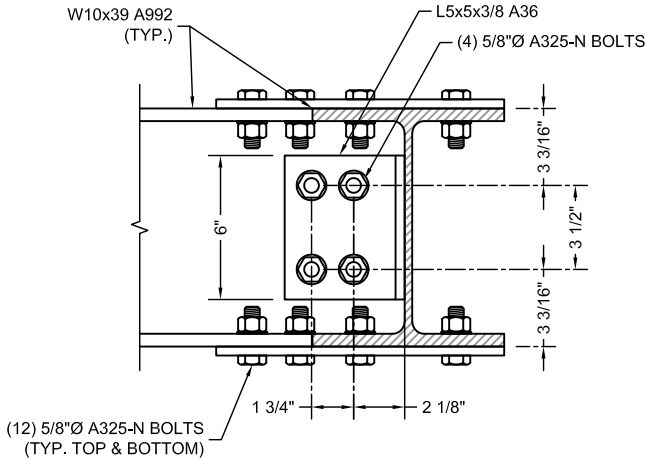


PERIMETER GIRDER CONNECTION DETAIL
SIDE VIEW

2
S-5

DETAIL

NTS

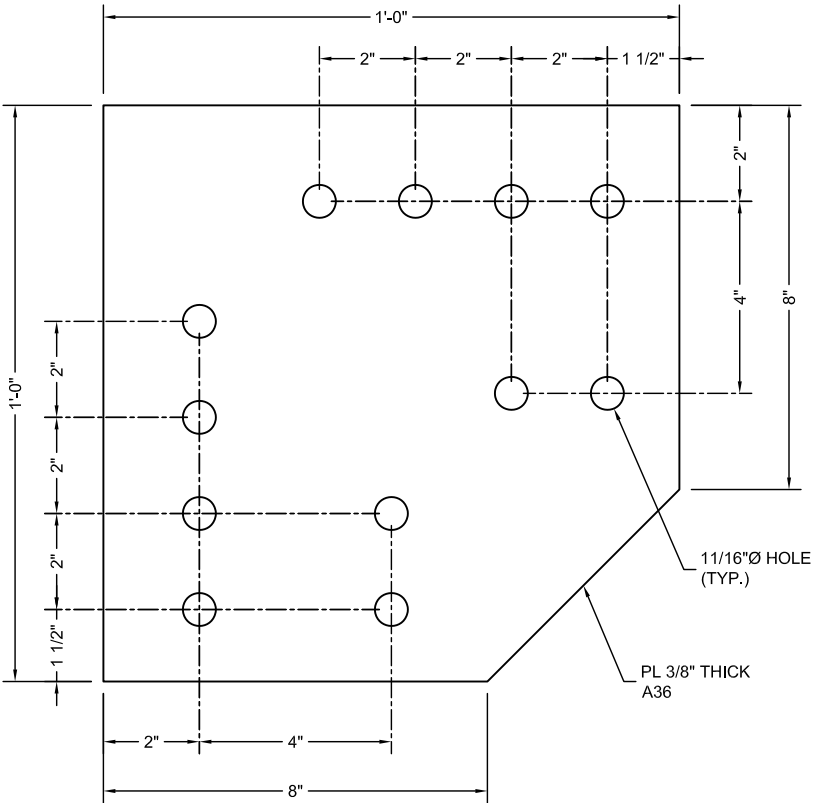


PERIMETER GIRDER CONNECTION DETAIL
SIDE VIEW

3
S-5

DETAIL

NTS



SP-1 GIRDER SUPPORT PLATE
FRONT VIEW

4
S-5

DETAIL

NTS

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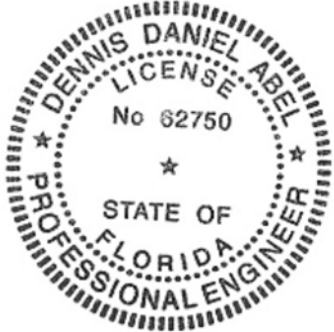
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FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

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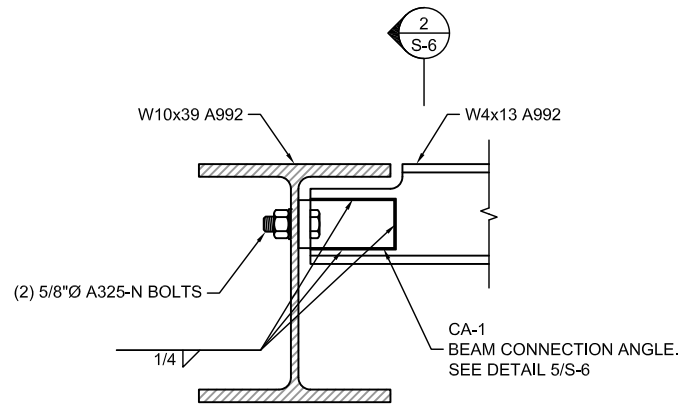
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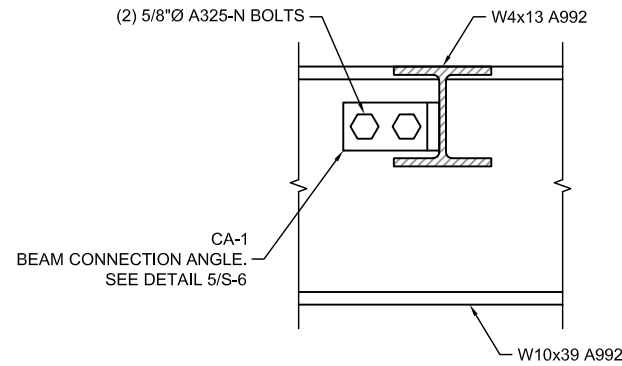
PLATFORM CONNECTION
DETAILS II

SHEET NUMBER:

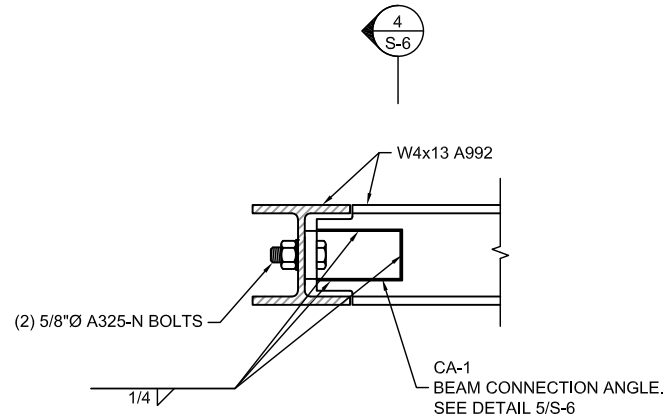
S-5



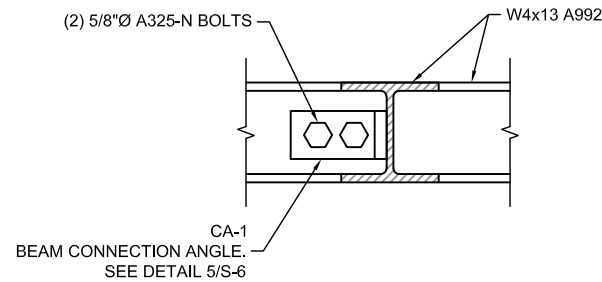
BEAM TO GIRDER CONNECTION
ELEVATION VIEW



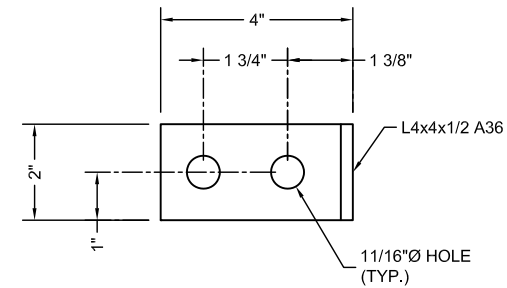
BEAM TO GIRDER CONNECTION
ELEVATION VIEW



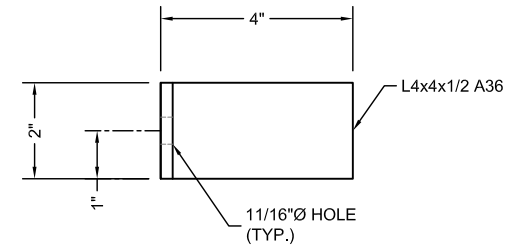
BEAM TO GIRDER CONNECTION
ELEVATION VIEW



BEAM TO GIRDER CONNECTION
ELEVATION VIEW



FRONT VIEW



SIDE VIEW

CA-1 BEAM CONNECTION ANGLE
FRONT & SIDE VIEW



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5901 BENJAMIN CENTER DR.
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TAMPA, FL 33634

FDH INFRASTRUCTURE SERVICES
ENGINEERING INNOVATION
FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIAN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031
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SUBMITTALS				
REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB



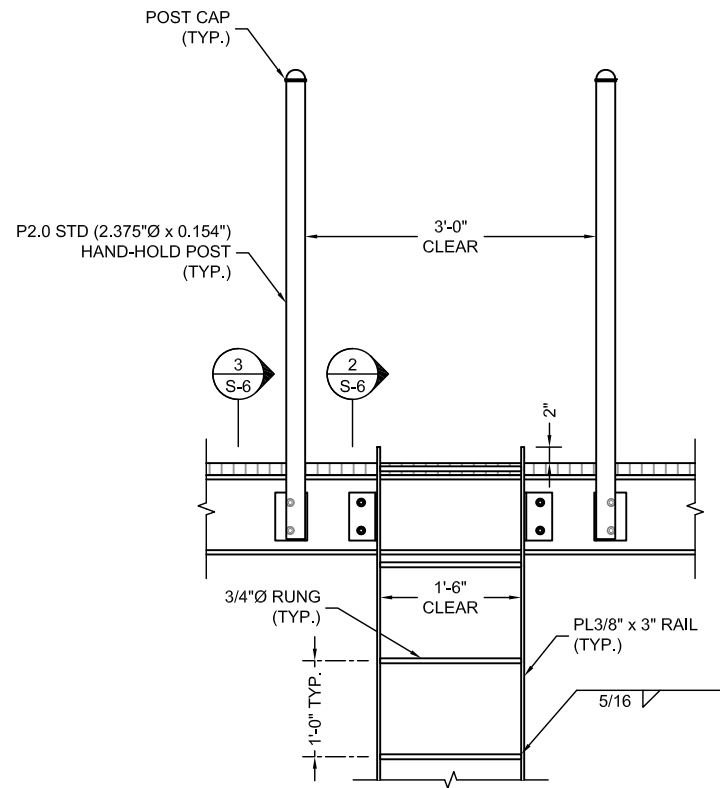
FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:
PR-008353

SITE ID:
US-FL-7140
SITE NAME:
HUNGRY HOWIE
T-MOBILE SITE ID:
A2B2227A
PARCEL:
252835000000023020
ADDRESS:
3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

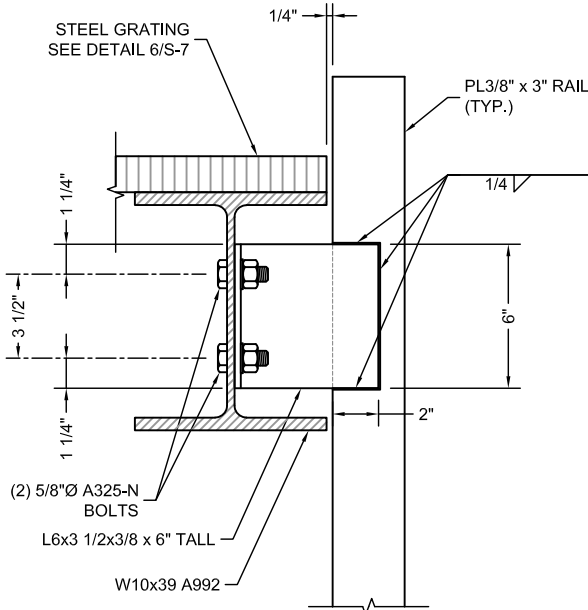
SHEET TITLE:
PLATFORM CONNECTION
DETAILS III

SHEET NUMBER:
S-6



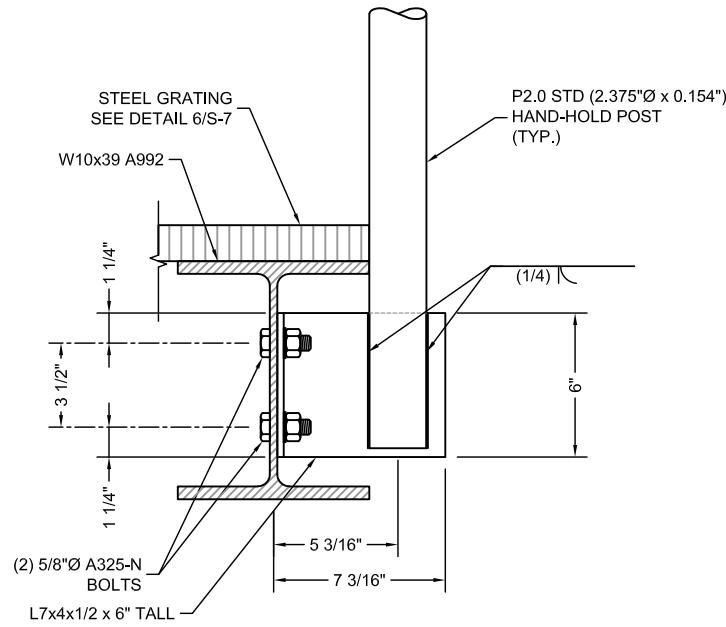
LADDER CONNNECTION DETAIL
FRONT VIEW

1
S-7
DETAIL
NTS



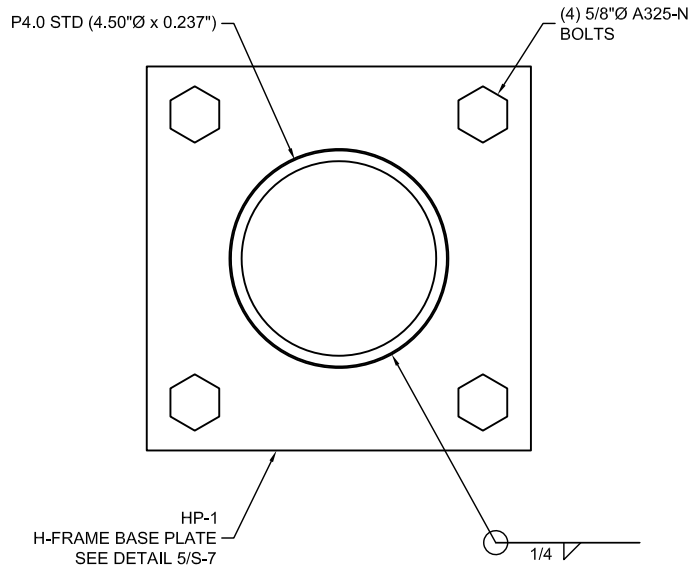
LADDER CONNNECTION DETAIL
SIDE VIEW

2
S-7
SECTION
NTS



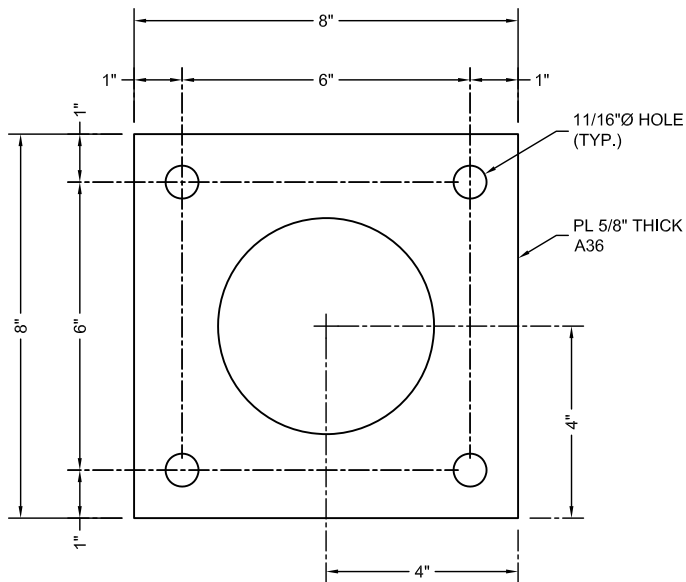
HAND-HOLD CONNECTION DETAIL
SIDE VIEW

3
S-7
SECTION
NTS



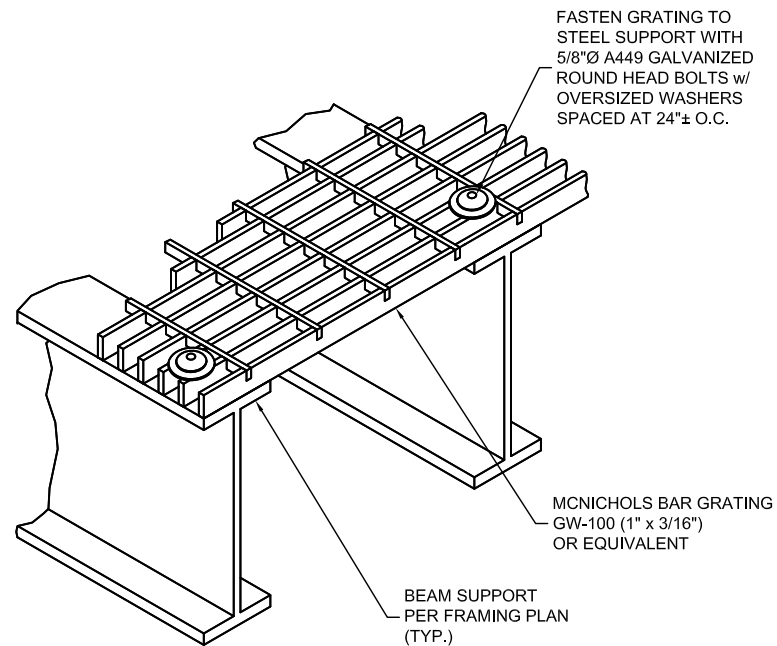
H-FRAME POST DETAIL
PLAN VIEW

4
S-7
DETAIL
NTS



HP-1 H-FRAME BASE PLATE
FRONT VIEW

5
S-7
DETAIL
NTS



GRATING CONNECTION DETAIL
ISOMETRIC VIEW

6
S-7
DETAIL
NTS

VB
BTS II, LLC

750 PARK OF COMMERCE DR, SUITE 200
BOCA RATON, FL 33487

T-Mobile

5901 BENJAMIN CENTER DR.
SUITE 110 A-B
TAMPA, FL 33634

FDH INFRASTRUCTURE SERVICES

ENGINEERING INNOVATION

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SUBMITTALS

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0	03/17/2023	CONSTRUCTION	ZK	JRB



FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

FDH JOB NUMBER:

PR-008353

SITE ID:

US-FL-7140

SITE NAME:

HUNGRY HOWIE

T-MOBILE SITE ID:

A2B2227A

PARCEL:

25283500000023020

ADDRESS:

3024 SPIRIT LAKE DRIVE
WINTER HAVEN, FL 33880

SHEET TITLE:

PLATFORM CONNECTION
DETAILS IV

SHEET NUMBER:

S-7

SEE LANDSCAPE PLAN
DONE BY OTHERS

VB

BTS II, LLC

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BOCA RATON, FL 33487

T-Mobile

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SUITE 110 A-B
TAMPA, FL 33634

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INFRASTRUCTURE
SERVICES

ENGINEERING INNOVATION

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SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	03/17/2023	CONSTRUCTION	ZK	JRB

DENNIS DANIEL ABEL

LICENSE

No 62750

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FDH INFRASTRUCTURE SERVICES, LLC
DENNIS D. ABEL, PE
STATE LICENNSE NO. 62750

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WINTER HAVEN, FL 33880

SHEET TITLE:

LANDSCAPE SITE PLAN

SHEET NUMBER:

L-1