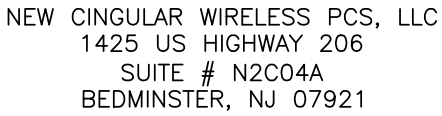


CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION. HE SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR IS A VIOLATION OF NEW YORK STATE LAW.

THIS DRAWING AND ALL THE INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHOM THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THIS DRAWING MAY NOT BE REUSED, COPIED, DISCLOSED, DISTRIBUTED OR RELIED UPON FOR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF GT WIRELESS ENGINEERING, PLLC.



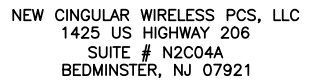
IWM:
WSNYJ0059313

PROPERTY OWNER:	VILLAGE OF CROTON-ON-HUDSON 1 VAN WYCK STREET CROTON-ON-HUDSON, NY 10520
SITE ADDRESS:	1 VAN WYCK STREET CROTON-ON-HUDSON, NY 10520
APPLICANT ADDRESS:	NEW CINGULAR WIRELESS PCS, LLC ("AT&T") 1425 US HIGHWAY 206 SUITE # N2C04A BEDMINSTER, NJ 07921
JURISDICTION:	VILLAGE OF CROTON-ON-HUDSON
PROPERTY TAX ID:	SECTION: 78.8 BLOCK: 5 LOT: 9
ZONING DISTRICT:	O-1 LIMITED OFFICE
LATITUDE:	41° 12' 29.89" 41.206303°
LONGITUDE:	73° 53' 15.75" 73.887708°
ELEVATION:	114' A.M.S.L.
CURRENT USE:	VILLAGE OFFICES/ TELECOMMUNICATIONS
PROPOSED USE:	VILLAGE OFFICES/ TELECOMMUNICATIONS
SITE DESIGNATION:	ROOFTOP/ GRADE

INSTALLATION OF NEW GENERATOR:	1
INSTALLATION OF NEW CABINETS:	2
INSTALLATION OF NEW ANTENNAS:	9
INSTALLATION OF NEW RRH UNITS:	9

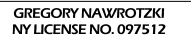
ENGINEERING:	GT WIRELESS ENGINEERING	GREGORY NAWROTZKI	617.694.4291
SITE ACQUISITION:	AIROSMITH DEVELOPMENT	KEITH VESLEY	518.306.1711

T01	TITLE SHEET
G01	GENERAL NOTES
A01	ROOF PLAN
A02	SITE/ BASEMENT PLAN
A03	ELEVATION
A04	ANTENNA & RRH PLANS
A05	EQUIPMENT ROOM & DETAILS
A06	CONSTRUCTION DETAILS - I
A07	CONSTRUCTION DETAILS - II
A08	ANTENNA & RRH DETAILS
A09	PLUMBING DIAGRAM & BOM
A10	ANTENNA MOUNT & RRH MOUNT DETAILS
E01	ELECTRICAL RISER DIAGRAM
E02	ELECTRICAL NOTES
E03	POWER & LIGHTING PLANS
E04	CABLE TRAY & ALARM PLANS
E05	GROUNDING PLAN & DETAILS
E06	GROUNDING NOTES & SCHEMATIC
E07	GROUNDING DETAILS
M01	GENERATOR DETAILS
M02	MECHANICAL DETAILS - I
M03	MECHANICAL DETAILS - II



56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

**CROTON-ON-HUDSON
FA # 14652291
SITE ID # NWL06362
1 VAN WYCK STREET
CROTON-ON-HUDSON, NY
10520**



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TITLE SHEET

T01

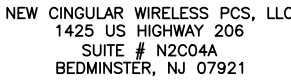
CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

- THE STRUCTURE HAS BEEN DESIGNED IN CONFORMANCE WITH THE "ALLOWABLE STRENGTH DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING UNLESS OTHERWISE NOTED:
 - ASTM A-572, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE.
 - ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - ASTM A-500, GRADE B HSS SECTION (SQUARE AND RECTANGULAR).
 - ASTM A-500, GRADE B HSS SECTION (ROUND).
 - ASTM A501 OR A53 TYPE E OR S STEEL PIPE.
 - ASTM A-325, TYPE SC OR N.X ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS.
 - ASTM F1554 ALL ANCHOR BOLTS AND THREADED ROD, UNLESS NOTED OTHERWISE.
3. BOLTS SHALL COMPLY WITH ASTM A325 OR A490. NUTS AND WASHERS SHALL BE COMPATIBLE WITH THE BOLT GRADE, HOLE SIZE, CONNECTION TYPE AND INSTALLATION METHOD AS INDICATED IN "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
4. CONNECTIONS SHALL BE BOLTED WITH 3/4 INCH DIAMETER A325-X HIGH STRENGTH BOLTS OR WELDED U.N.O..
5. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE - STEEL". WELDING SHALL BE DONE BY QUALIFIED WELDERS CERTIFIED IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STANDARD QUALIFICATION PROCEDURE" AND AWS D1.3, "STRUCTURAL WELDING CODE - STRUCTURAL STEEL". WELDING ELECTRODES SHALL BE E70XX. FILLET WELDS SHALL BE NO LESS THAN MINIMUM SIZE REQUIRED PER AISC TABLE J2.4..
6. STEEL SHOP DRAWINGS AND FABRICATION SHALL CONFORM TO THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
7. STRUCTURAL STEEL SHOP DRAWINGS, INCLUDING CONNECTIONS, SHALL BE PREPARED UNDER THE DIRECTION OF A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE WHERE THE CONSTRUCTION IS LOCATED. THE ENGINEER, EMPLOYED BY THE CONTRACTOR, SHALL PREPARE A SIGNED AND SEALED LETTER OF CERTIFICATION STATING THAT THE STRUCTURAL STEEL SHOP DRAWINGS, INCLUDING CONNECTIONS, HAVE BEEN PREPARED UNDER THEIR DIRECTION.
8. STRUCTURAL STEEL FABRICATION SHALL BE PERFORMED BY AN ORGANIZATION EXPERIENCED IN STRUCTURAL FABRICATION OF EQUIVALENT MAGNITUDE TO THIS PROJECT, AND HAS AN AISC CERTIFICATION FOR STRUCTURAL STEELWORK. PROVIDE, WITH THE BID, A COPY OF THE AISC CERTIFICATE INDICATING THAT THE FABRICATION PLANT MEETS AISC CATEGORY STD CERTIFICATION. IN LIEU OF AN AISC CERTIFICATION, THE FABRICATOR MAY SUBMIT DOCUMENTATION OF EQUIVALENT EXPERIENCE IN THE FABRICATION OF THE ITEM OR ITEMS IN QUESTION.
9. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE PREPPED BY COMMERCIAL BLAST CLEANING THEN HOT-DIPPED GALVANIZED.
10. SPLICING OF STRUCTURAL STEEL SECTIONS, NOT INDICATED ON CONTRACT DOCUMENTS, IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
11. ORIENT MILL CAMBER UPWARD DURING FABRICATION AND ERECTION.
12. PROVIDE 3/8 INCH THICK MINIMUM WELDED STIFFENER PLATE ON BOTH SIDES OF THE WEB OF BEAMS AT POINT OF CONCENTRATED LOADS SUCH AS BEAMS SUPPORTING COLUMNS/POSTS OR RUNNING OVER TOPS OF COLUMNS, POSTS, OR OTHER BEAMS.
13. ALUMINUM AND STEEL MEMBERS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.
14. STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
15. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.

3. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED D FIRE COORD APPROVED MATERIALS.
2. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND LANDLORD.
3. THE DOOR SHALL BE A STEELCRAFT STEEL UNIT, L-SERIES TYPE, OR APPROVED EQUAL, (2) 3'-6"x7". THE UNIT SHALL BE INSULATED AND WEATHER-STRIPPED, WITH ALUMINUM THRESHOLD, STANLEY 4 1/2" X 4 1/2" BALL BEARING HINGES (PART# FB8179), AND LOCK PUSHBUTTON COMBO AS SPECIFIED BY THE CONSTRUCTION MANAGER. THE DOOR SHALL BE SET IN A 16 GAUGE STEEL FRAME. BOTH DOOR & FRAME SHALL BE FACTORY PAINTED AND SHALL HAVE A FIRE RATING OF 2 HOURS, MINIMUM. WWW.STEELCRAFT.COM
4. FINISH ALL DRYWALL, SCREWS OR NAILS, AND JOINTS, UNLESS OTHERWISE NOTED. PRIME DRYWALL AND EXTERIOR SURFACES WITH ONE COAT OF WHITE LATEX PRIMER. FINISH WITH TWO COATS OF INTERIOR SEMI-GLOSS LATEX PAINT. PAINT SHALL BE BY SHERWIN WILLIAMS, BENJAMIN MOORE, DUTCH BOY, OR EQUAL.
5. CONTRACTOR SHALL INSTALL NEW RESILIENT FLOOR TILE WITHIN LIMITS OF PROPOSED EQUIPMENT ROOM AS FOLLOWS: PREPARATION - CONTRACTOR SHALL INSTALL NEW RESILIENT FLOOR TILE WHICH SHALL BE ASTM F1066 12"x12"x1/8" THICK, ARMSTRONG IMPERIAL TEXTURE TILE #51836, COLOR-SHELTER WHITE BASE - PROVIDE FS SS-W-40, TYPE II, 4" H. ROPPE VINYL COVE BASE, COLOR BLACK.
6. TURN OVER ALL SALVAGEABLE BUILDING MATERIAL TO BUILDING MANAGER.
7. ALL GYPSUM WALL BOARD SHALL BE TYPE GOLD BOND FIRE-SHIELD TYPE X HI-IMPACT WALLBOARD - FIRE RESISTANCE RATING - ANSI/UL263, TO ACHIEVE 2 HOUR FIRE RESISTANCE USE DESIGN NO. U495 FOR MATERIALS AND SCREW SPACINGS.
8. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
9. SHIM NEW SILLS, AS NECESSARY, TO LEVEL AND PLUMB WALL.
10. ALL DISRUPTIVE WORK AND WORK WITHIN TENANT SPACES TO BE COORDINATED WITH BUILDING REPRESENTATIVE.
11. ALL ROOF PENETRATIONS SHALL BE RESTORED TO MAINTAIN ALL ROOF WARRANTIES AND ENSURE A PERMANENT WATERPROOF SEAL.
12. EXISTING WALLS TO BE CLEANED WITH INDUSTRIAL STRENGTH CLEANER.

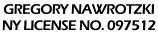
1. GROUND SHALL COMPLY WITH NEC ART. 250.
2. GROUND CONDUCTORS SHALL BE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR INDOOR USE.
3. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
4. ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. ALWAYS MAKE 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
5. CONNECTIONS TO GROUND BAR SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
6. TEST COMPLETED GROUND SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION. GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.
7. GROUND CONDUCTORS BETWEEN MGB AND WATERMAIN SHALL BE #2/0. BONDING JUMPERS FROM METALLIC SURFACES SHALL BE #2 MINIMUM. ALL GROUND CONDUCTORS AND BONDING JUMPERS SHALL BE SOFT DRAWN ANNEALED, TINNED, BARE STRANDED COPPER WIRE. COAXIAL CABLES SHALL BE GROUNDED AT A MINIMUM OF TWO LOCATIONS USING VERIZON WIRELESS PROVIDED GROUNDING KITS. EXACT LOCATIONS SHALL BE FINALIZED IN THE FIELD BY THE CONSTRUCTION MANAGER.
8. ALL GROUNDING TO BE INSTALLED PER THE LATEST VERSION OF THE AT&T SPECIFICATION ATT-TP-76416 - GROUNDING AND BONDING REQUIREMENTS FOR NETWORK FACILITIES.

- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
2. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
3. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
6. ALL EXISTING UTILITY CONDUITS OR IMPROVEMENTS THAT INTERFERE WITH THE CONSTRUCTION OF THE INSTALLATION SHALL BE REVIEWED BY THE CONTRACTOR, PROJECT MANAGEMENT AND LANDLORD TO DETERMINE FINAL STATUS.
7. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT AND CABLING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH PROJECT MANAGEMENT.
8. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, ROOFS AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
9. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
10. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
12. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF CONSTRUCTION FOR ENGINEER OR SPECIAL INSPECTOR INSPECTION.
13. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
14. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
15. CONTRACTOR AND ANY SITE SPECIFIC PART/PRODUCT/CONCEALMENT MANUFACTURER TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO MANUFACTURING, FABRICATION OR CONSTRUCTION.
16. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH WIRELESS CARRIER AND LOCAL AHJ SPECIFICATIONS AND REQUIREMENTS.
17. CONTRACTOR SHALL CONTACT ALL LOCAL ACTIVE UTILITIES PRIOR TO CONSTRUCTION.
18. ADA COMPLIANCE: THE FACILITY IS NORMALLY UNOCCUPIED WIRELESS CELLULAR SITE. THE SITE IS VISITED APPROXIMATELY ONCE PER MONTH FOR SERVICE.
19. ALL GROUT, ANCHORS AND OTHER MANUFACTURER MATERIALS USED ON SITE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
20. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF THE CSI MASTERFORMAT.
21. THE APPLICANT, OR HIS REPRESENTATIVE, IS TO DESIGNATE AN INDIVIDUAL AS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21 (E) OF THE NJ UNIFORM CONSTRUCTION CODE AND THE CRT 1926.32 (F) OSHA COMPETENT PERSON.



56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

**CROTON-ON-HUDSON
FA # 14652291
SITE ID # NWL06362
1 VAN WYCK STREET
CROTON-ON-HUDSON, NY
10520**



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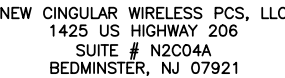
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0	06.26.25	ISSUED FOR CONSTRUCTION
A	01.02.25	PRELIMINARY

PROJECT NUMBER:	GT.015.0032
DRAWN BY:	OSN
CHECKED BY:	GHN

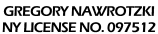
GENERAL NOTES

G01



56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

**CROTON-ON-HUDSON
FA # 14652291
SITE ID # NW/L06362
1 VAN WYCK STREET
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10520**



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CONSTRUCTION DRAWINGS

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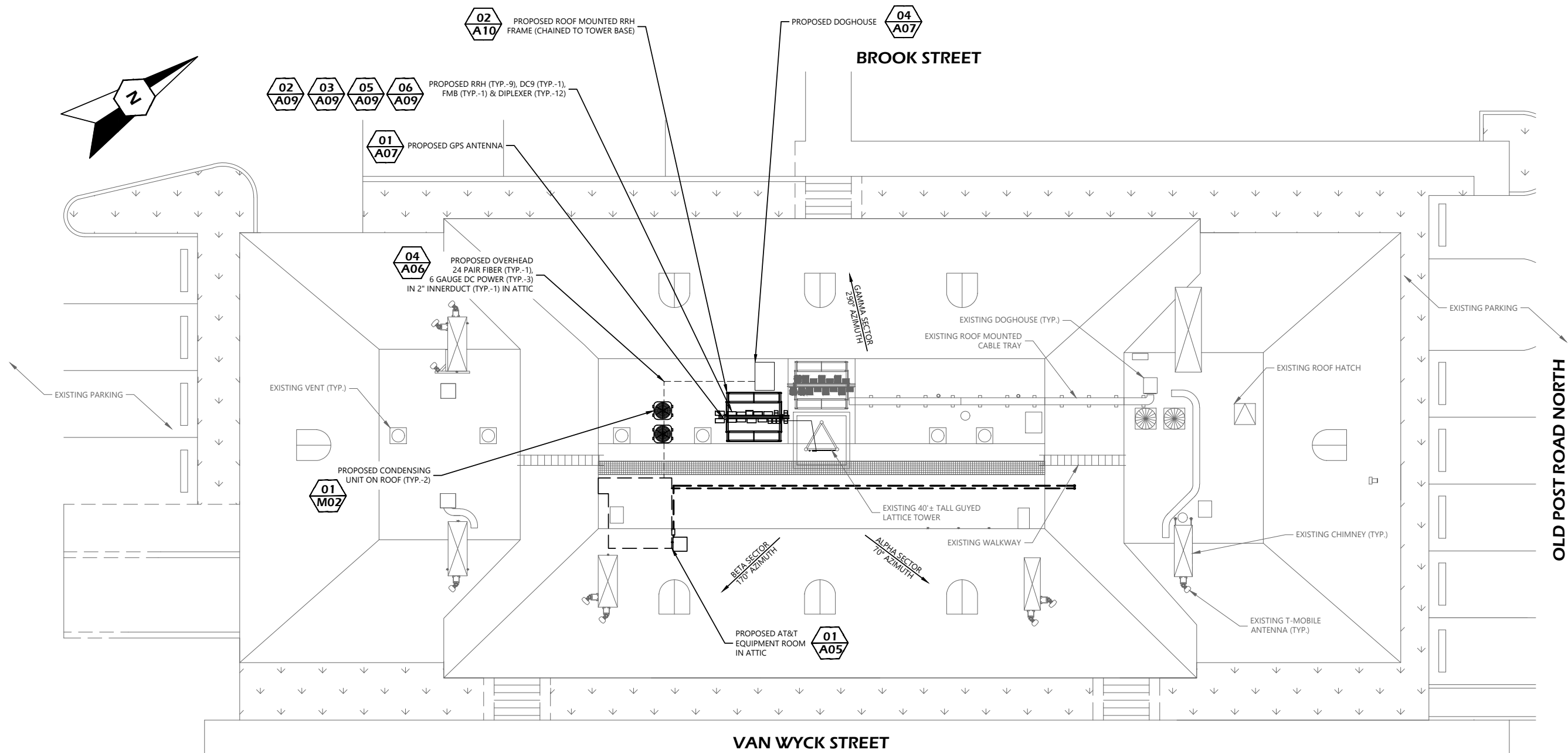
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SHEET TITLE

ROOF PLAN

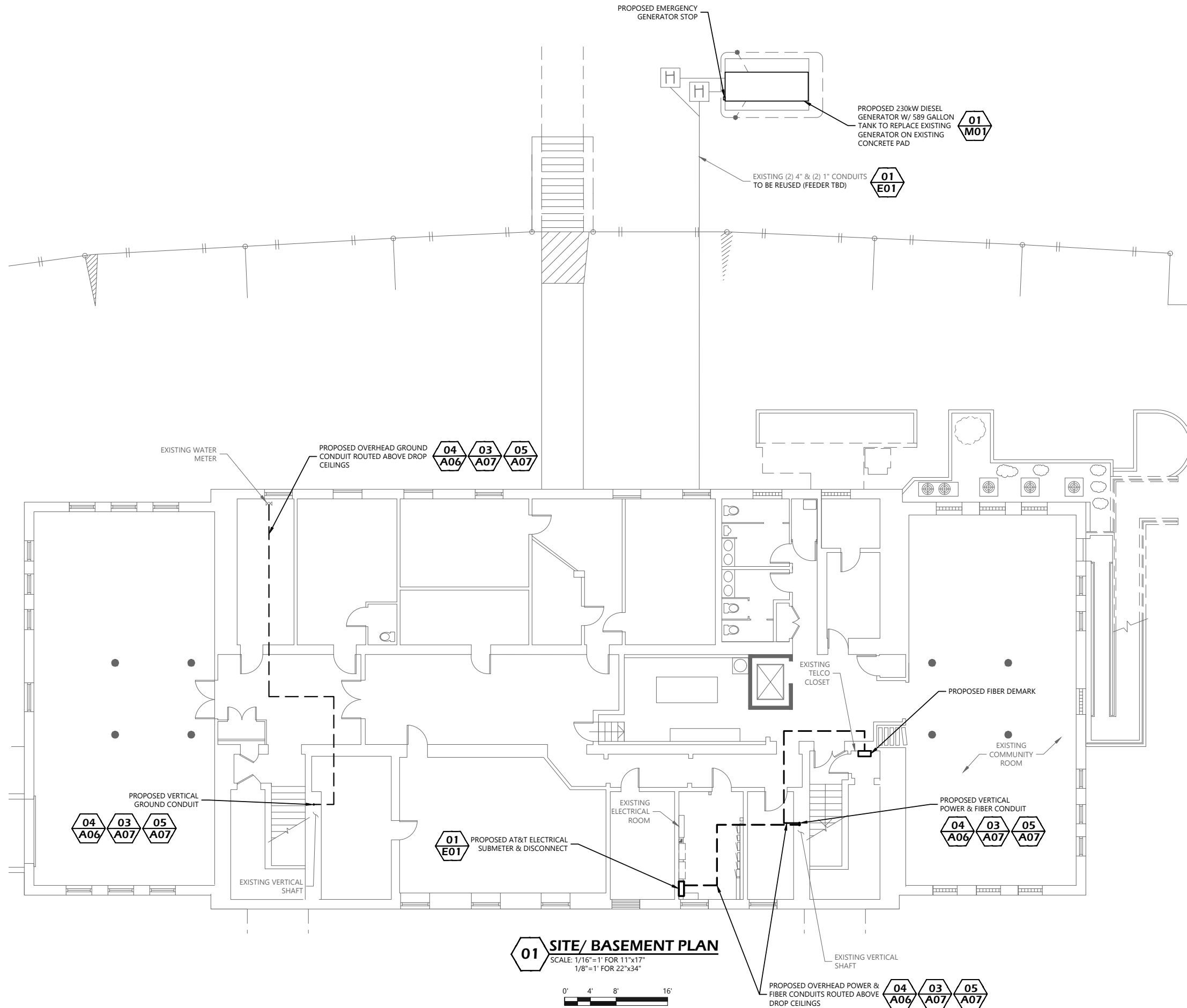
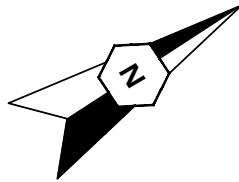
SHEET NUMBER

A01

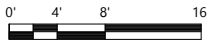


NOTES

1. NORTH SHOWN AS APPROXIMATE.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH TOWER ANALYSIS BY ALBUL ENGINEERING DATED XXXXX.
3. DRAWINGS BASED ON SITE VISIT BY GT WIRELESS ENGINEERING ON 12.06.2024 AND DRAWINGS BY DEWBERRY ENGINEERS DATED 10.08.2020.
4. CONTRACTOR TO REVIEW THESE DOCUMENTS PRIOR TO FABRICATION AND CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER AND CLIENT.
5. NOT ALL EXISTING INFORMATION SHOWN FOR CLARITY.
6. THE LOCATIONS OF THE APPLICANT'S PROPOSED UTILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE UTILITY COMPANIES AND MAY NEED TO BE RELOCATED.
7. THE PROPOSED USE IS FOR TELECOMMUNICATIONS AND IS NOT INTENDED FOR PERMANENT EMPLOYEE OCCUPANCY. THEREFORE, POTABLE WATER, SANITARY SEWERS, AND ADDITIONAL ON SITE PARKING ARE NOT REQUIRED.
8. THE FACILITY SHALL BE VISITED ON THE AVERAGE OF ONCE A MONTH FOR MAINTENANCE AND SHALL BE CONTINUOUSLY MONITORED FROM A REMOTE FACILITY FOR BOTH FIRE AND INTRUSION.
9. THE FACILITIES ARE REMOTELY OPERATED AND CONTROLLED, AND AS SUCH, ARE NORMALLY UNMANNED. A COMPUTERIZED EQUIPMENT AND FACILITY ALARM SYSTEM CONTINUOUSLY MONITORS AN EXTENSIVE NUMBER OF OPERATING AND BUILDING FUNCTIONS. UNPLANNED EVENTS WILL TRIGGER ALARM REPORTS TO AT&T HEADQUARTERS, RANGING FROM ROUTINE REPORTS TO IMMEDIATE ACTIVATION OF LOCAL PERSONNEL OR EMERGENCY SERVICES, 24 HOURS A DAY.
10. CONTRACTOR SHALL COORDINATE & COMPLY WITH EXISTING UTILITY COMPANIES' REQUIREMENTS.
11. LANDLORD APPROVED ROOFER ONLY TO PERFORM ALL PENETRATIONS AND ROOF WORK.
12. RRR BALLAST MOUNT TO BE CHAINED TO TOWER BASE FRAME SIMILAR TO VERIZON WIRELESS.



01 SITE/ BASEMENT PLAN
SCALE: 1/16"=1' FOR 11"x17"
1/8"=1' FOR 22"x34"



NEW CINGULAR WIRELESS PCS, LLC
1425 US HIGHWAY 206
SUITE # N2C04A
BEDMINSTER, NJ 07921



**WIRELESS
ENGINEERING**

56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

CROTON-ON-HUDSON
FA # 14652291
SITE ID # NWL06362
1 VAN WYCK STREET
CROTON-ON-HUDSON, NY
10520



GREGORY NAWROTZKI
NY LICENSE NO. 097512

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CONSTRUCTION DRAWINGS

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PROJECT NUMBER:	GT.015.0032
DRAWN BY:	OSN
CHECKED BY:	GHN

SHEET TITLE

SITE/ BASEMENT PLAN

SHEET NUMBER

A02

EXISTING DIPOLE/ WHIP ANTENNA
ELEV. = 120'-5"± A.G.L.

C.L. OF EXISTING ANTENNAS
ELEV. = 81'-0"± A.G.L.

C.L. OF AT&T ANTENNAS
ELEV. = 71'-0"± A.G.L.

04
A06

03
A07

05
A07

PROPOSED VERTICAL
GROUND CONDUIT IN
EXISTING SHAFT

EXISTING GRADE
ELEV. = 0'-0"± A.G.L.

04
A06

03
A07

PROPOSED OVERHEAD
GROUND CONDUIT IN ATTIC

01
A05

PROPOSED AT&T
EQUIPMENT ROOM
IN ATTIC

04
A06

PROPOSED OVERHEAD
24 PAIR FIBER (TYP.-1),
6 GAUGE DC POWER (TYP.-3)
IN 2" INNERDUCT (TYP.-1) IN ATTIC

02
A08

03
A08

06
A08

PROPOSED RRH (TYP.-9), DC9 (TYP.-3)
& FMB (TYP.-3)

02
A10

PROPOSED ROOF MOUNTED RRH
FRAME (CHAINED TO TOWER BASE)

04
A07

PROPOSED DOGHOUSE

01
A07

PROPOSED GPS ANTENNA

01
E01

PROPOSED AT&T ELECTRICAL
SUBMETER & DISCONNECT

01
ELEVATION

SCALE: 1/16"=1' FOR 11"x17"
1/8"=1' FOR 22"x34"

0' 4' 8' 16'

EXISTING DIPOLE/ WHIP
ANTENNA

EXISTING 40'± TALL GUYED
LATTICE TOWER

EXISTING WHIP ANTENNA

EXISTING YAGI ANTENNA

EXISTING DISH ANTENNA

EXISTING VERIZON WIRELESS
ANTENNA (TYP.-6)

PROPOSED AT&T ANTENNA
(TYP.-2/ SECTOR, 6 TOTAL)

PROPOSED AT&T 7/8" COAX CABLE
(TYP.-12/ SECTOR, 24 TOTAL) &
24 PAIR FIBER TRUNK (TYP.-1) &
#8 DC TRUNK (TYP.-1)

EXISTING GUY WIRES (TYP.-4)

EXISTING GPS
ANTENNA (TYP.)

EXISTING T-MOBILE
ANTENNA (TYP.)

PROPOSED OVERHEAD POWER
& FIBER CONDUITS IN ATTIC

PROPOSED VERTICAL
POWER & FIBER CONDUIT
IN EXISTING SHAFT

PROPOSED OVERHEAD POWER &
FIBER CONDUITS ROUTED ABOVE
DROP CEILINGS

04
A06

03
A07

05
A07



NEW CINGULAR WIRELESS PCS, LLC
1425 US HIGHWAY 206
SUITE # N2C04A
BEDMINSTER, NJ 07921



**WIRELESS
ENGINEERING**

56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

CROTON-ON-HUDSON
FA # 14652291
SITE ID # NWL06362
1 VAN WYCK STREET
CROTON-ON-HUDSON, NY
10520



GREGORY NAWROTZKI
NY LICENSE NO. 097512

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CONSTRUCTION DRAWINGS

0	06.26.25	ISSUED FOR CONSTRUCTION
A	01.02.25	PRELIMINARY

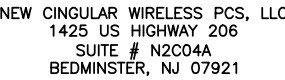
PROJECT NUMBER: GT.015.0032
DRAWN BY: OSN
CHECKED BY: GHN

SHEET TITLE

ELEVATION

SHEET NUMBER

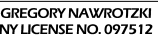
A03



WIRELESS ENGINEERING

56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

**CROTON-ON-HUDSON
FA # 14652291
SITE ID # NW/L06362
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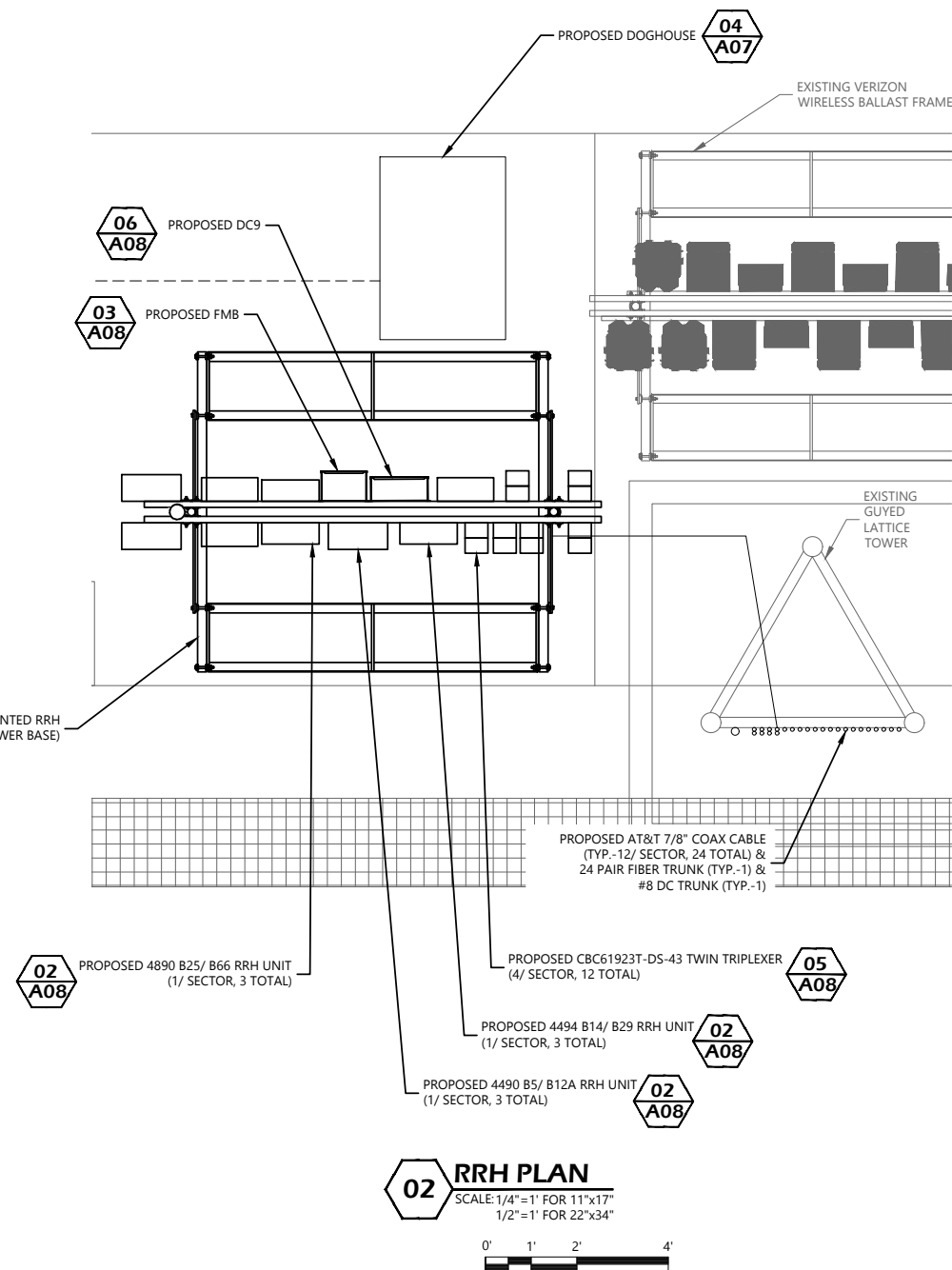
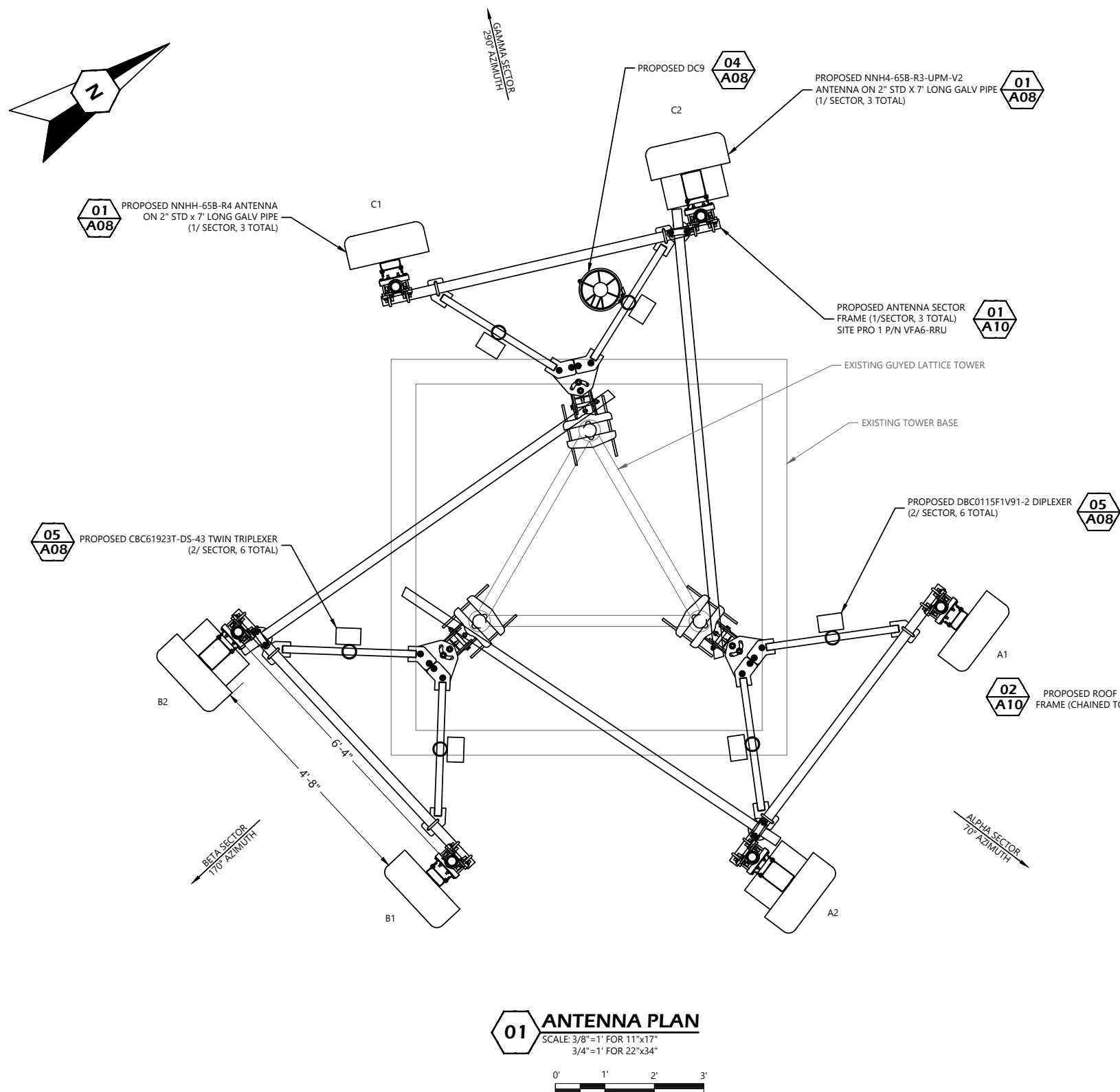
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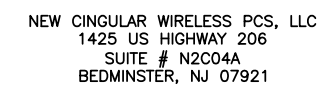
SHEET TITLE

ANTENNA & RRH PLANS

SHEET NUMBER

A04



**WIRELESS
ENGINEERING**

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OLD TAPPAN, NJ 07675

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	01.02.25	PRELIMINARY

PROJECT NUMBER: GT-015-0032

PROJECT NUMBER:	GT-9
DRAWN BY:	OSN

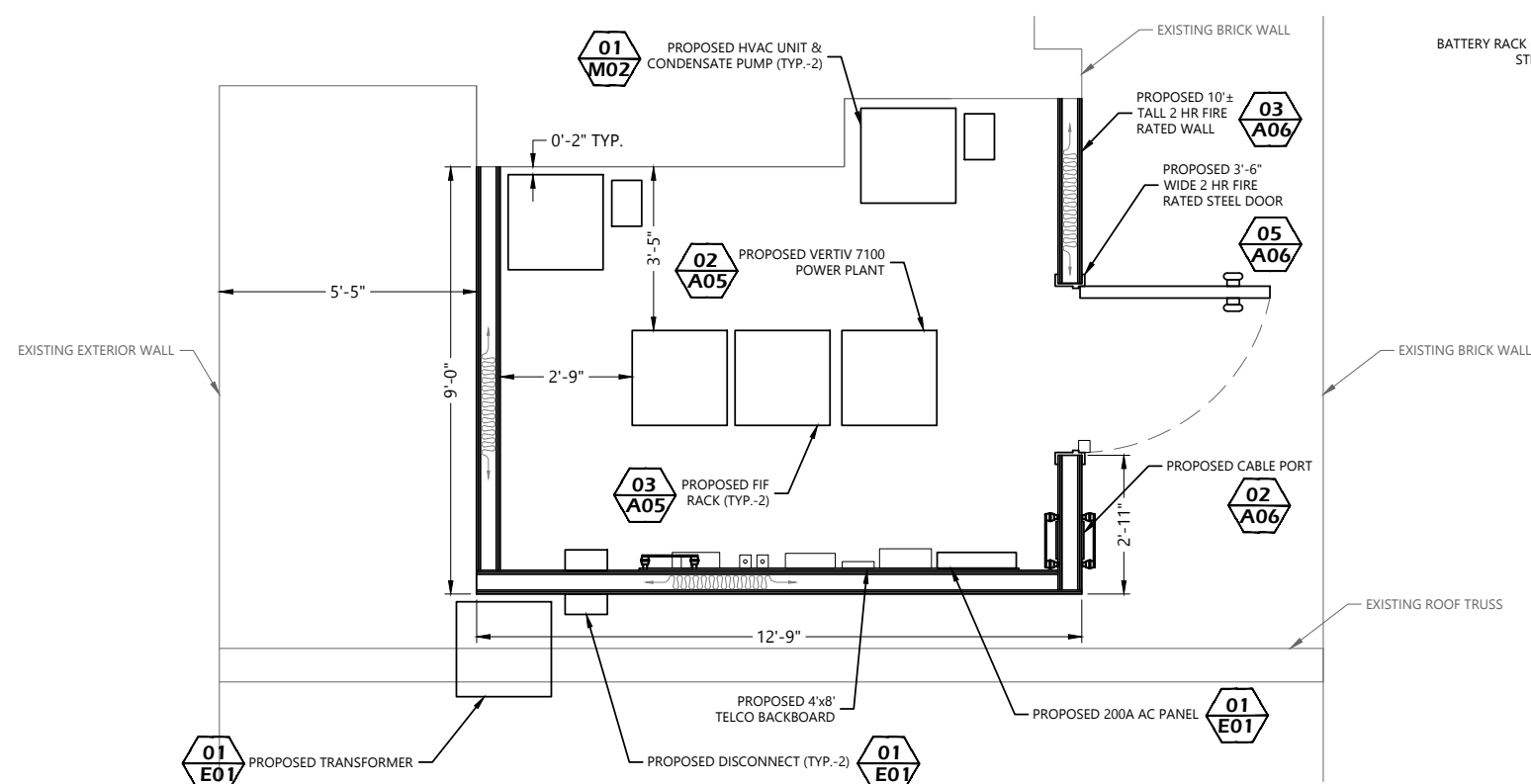
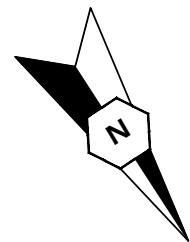
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SHEET TITLE

EQUIPMENT ROOM & DETAILS

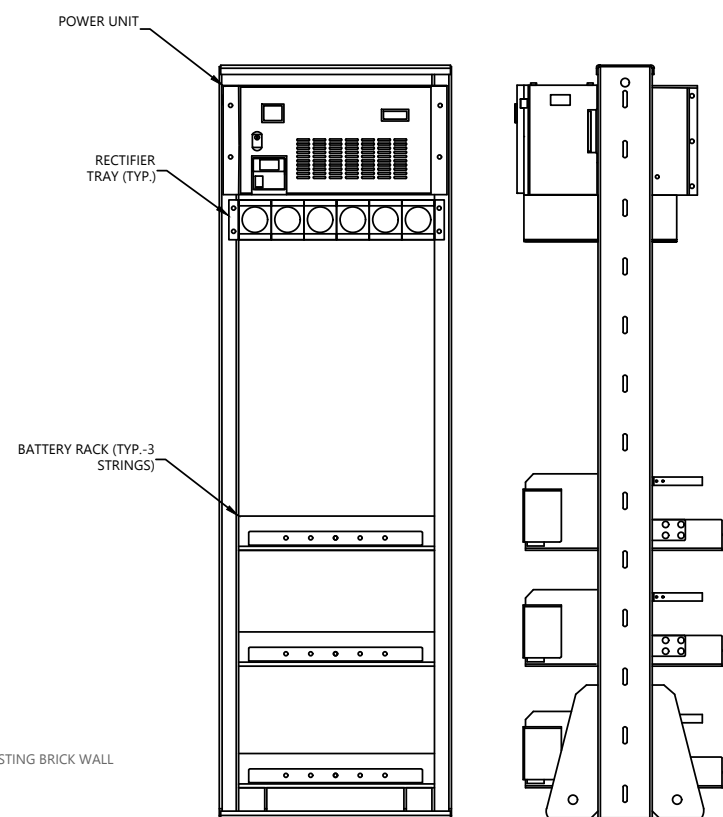
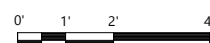
SHEET NUMBER

A05



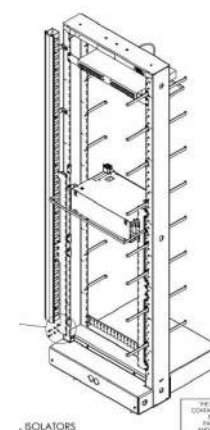
EQUIPMENT ROOM PLAN PLAN

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



VERTIV 7100 -58/ 48V DC POWER PLANT DETAIL

SCALE: N.T.S.



FOOTPRINT:
84"(H)x26"(W)x23"(D)

NOTES

1. CONTRACTOR SHALL SECURE RACK AS PER MANUFACTURER RECOMMENDATIONS.
2. PACIFIC TECHNICAL SOLUTIONS P/N PTS3701-1515.

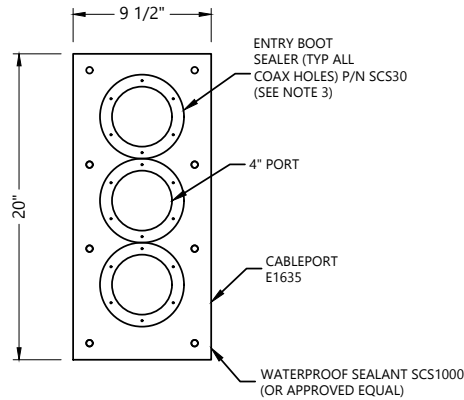
03 FIF RACK DETAIL
SCALE: N.T.S.

SCALE: N.T.S.



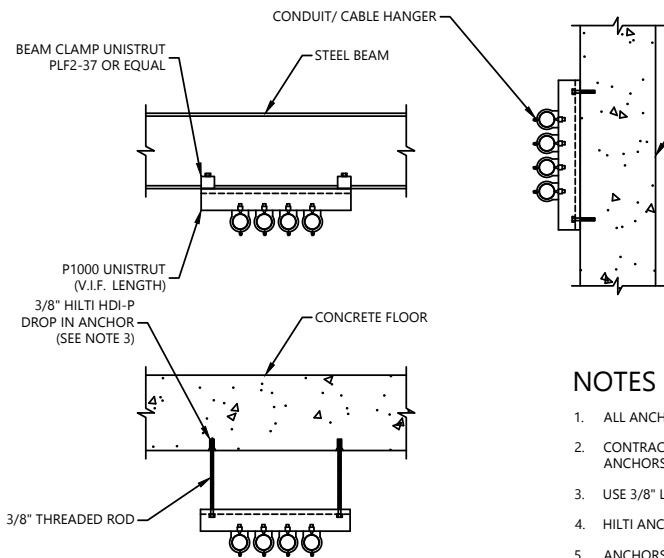
- NOTES
- SIGN SHALL BE MOUNTED AT ROOF DOOR
 - MOUNTING HEIGHT SHALL BE 5' A.R.L. TO SIGN CENTERLINE

01 SAFETY SIGN DETAIL
SCALE: N.T.S.



- NOTES
- CONTRACTOR TO THOROUGHLY DRY AREA BEFORE CORING, INSTALLING AND SEALING CABLEPORT & BOOTS.
 - ALL PART NUMBERS ARE SITE PRO 1
 - CONTRACTOR TO FILL THE BOOT CAVITY W/ BOOT SEALER TO FORM A CONICAL SHAPE TO ALLOW WATER RUN OFF. 2 TUBES OF SCS30 ARE REQUIRED FOR EACH BOOT.
 - WATERPROOF ALL EDGES AND HOLES.

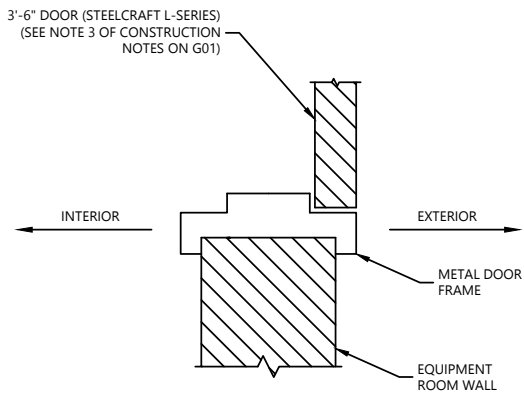
02 CABLE PORT DETAIL
SCALE: N.T.S.



- NOTES
- ALL ANCHORS ARE HILTI
 - CONTRACTOR TO OBTAIN ALL HILTI CERTIFICATIONS AND INSTALL ANCHORS PER HILTI RECOMMENDATIONS
 - USE 3/8" LAG BOLT AND 2" SECTION OF P1000 AT TIMBER JOISTS
 - HILTI ANCHORS TO BE INSTALLED AT 16" O.C.
 - ANCHORS ARE NOT BE INSTALLED IN MORTAR AND MAINTAIN 12" MIN CLEARANCE FROM BUILDING EDGE

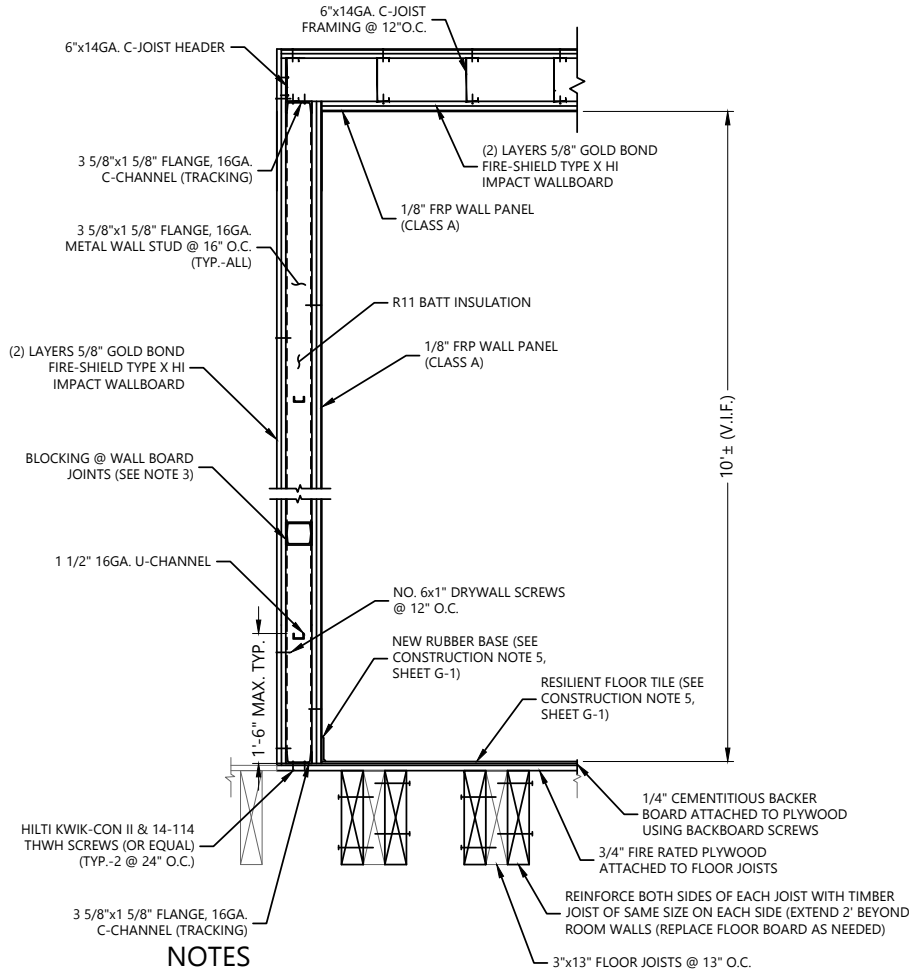
04 ANCHOR DETAIL - CONDUITS & CABLES
SCALE: N.T.S.

MATERIAL	ANCHOR	SIZE	DEPTH
CMU/ BRICK	HIT HY 270 W/ W/ SCREENTUBE	3/8"	2 1/4"
SOLID CONC.	HIT HY 200	3/8"	6"
TIMBER	GALVANIZED	2#14	3"
STEEL STUD	S-MD HWH #4	1/4"	



PLAN

05 DOOR JAMB DETAIL
SCALE: N.T.S.



- NOTES
- A.F.F. - ABOVE FINISHED FLOOR (TO BASE OF EQUIPMENT).
 - INSTALL FRP PANEL PER MANUFACTURERS RECOMMENDATIONS.
 - APPLY ALL GYPSUM WALL BOARD PERPENDICULAR TO FRAMING WITH STRAP BLOCKING BEHIND THE HORIZONTAL WALLBOARD JOINT WITH SOLID BLOCKING BETWEEN THE FIRST TWO END STUDS.

03 WALL DETAIL
SCALE: N.T.S.



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DRAWN BY: OSN
CHECKED BY: GHN

SHEET TITLE

CONSTRUCTION
DETAILS - I

SHEET NUMBER

A06

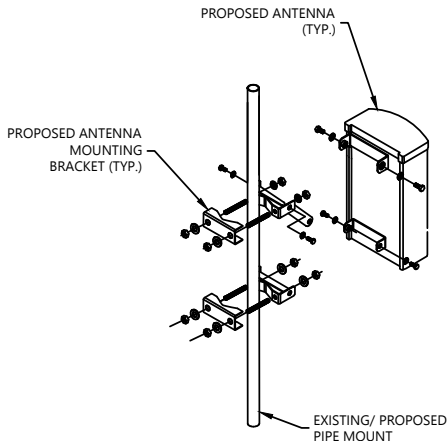
A07



COMMSCOPE
NNH4-65B-R4
72.0"(H)x19.6"(W)x7.8"(D)
77.4 LBS
9.8 SF



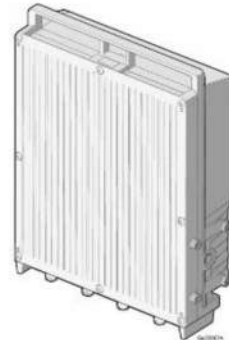
COMMSCOPE
NNH4-65B-R3-UPM-V2
72.0"(H)x19.6"(W)x7.1"(D)
73.9 LBS
9.8 SF



ERICSSON
4494 B14/ B29
17.5"(H)x15.1"(W)x5.6"(D)
57.3 LBS



ERICSSON
4890 B25/ B66
18.8"(H)x14.8"(W)x6.2"(D)
55.9 LBS



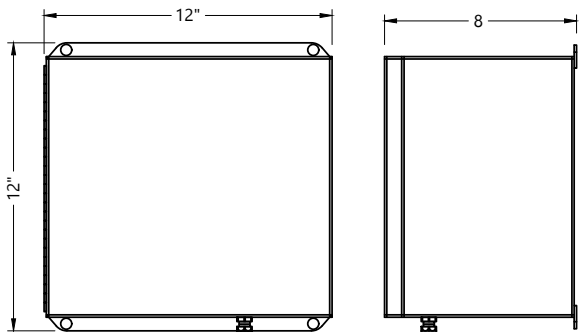
ERICSSON
4490 B5/ B12A
20.6"(H)x15.6"(W)x7"(D)
65 LBS

NOTES

1. INSTALL ANTENNA PER MANUFACTURER REQUIREMENTS

01 ANTENNA DETAIL

SCALE: N.T.S.



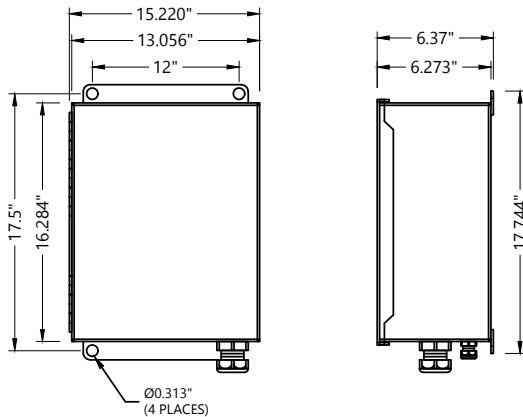
NOTES

1. DIMENSIONS SHOWN AS APPROXIMATE. VERIFY W/ CM PRIOR TO CONSTRUCTION.

J SOURCE FIBER BOX	
MODEL NUMBER:	12128FM4SEC
DIMENSIONS:	12.0"Hx12.0"Wx8.0"D
WEIGHT:	8.5 LBS

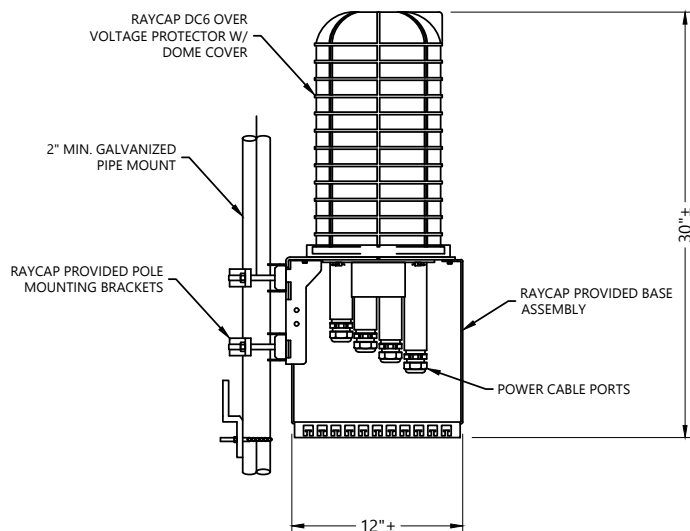
03 FIBER MANAGEMENT BOX @ ANTENNA DETAIL

SCALE: N.T.S.



06 DC9-48-60-24-PC16-EV DETAIL

SCALE: N.T.S.



NOTES

1. RAYCAP PART NUMBER DC9-48-60-24-8C-EV
2. CONTRACTOR TO SUPPLY PIPE MOUNT

04 DC9 DETAIL

SCALE: N.T.S.

NOTES

1. INSTALL RRH PER MANUFACTURER REQUIREMENTS

02 RRH DETAIL

SCALE: N.T.S.



COMMSCOPE
CBC1923T-DS-43
7.0"(H)x5.5"(W)x4.0"(D)
8.4 LBS



KAELUS
DBC0115F1V91-2
4.3"(H)x5.3"(W)x5.6"(D)
7.0 LBS

NOTES

1. INSTALL PER MANUFACTURER REQUIREMENTS

05 PLEXER DETAIL

SCALE: N.T.S.



FOOTPRINT:
3.3"(H)x16.6"(W)x15.5"(D)

07 DC12-48-60-0-RM

SCALE: N.T.S.



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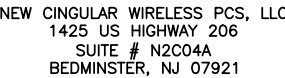
PROJECT NUMBER:	GT.015.0032
DRAWN BY:	OSN
CHECKED BY:	GHN

SHEET TITLE

**ANTENNA & RRH
DETAILS**

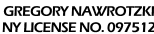
SHEET NUMBER

A08



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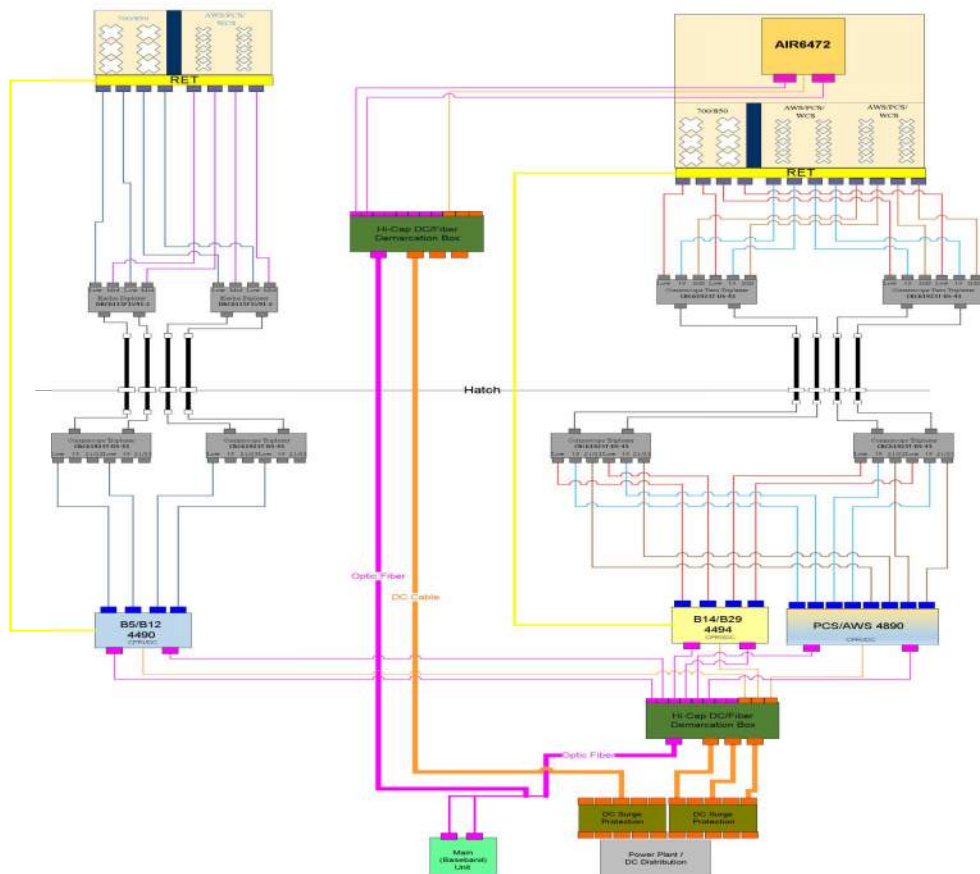
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PROJECT NUMBER:	GT.015.0032
DRAWN BY:	OSN
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SHEET TITLE

SHEET NUMBER

A09

01 PLUMBING DIAGRAM

SCALE: N.T.S.

BILL OF MATERIALS (BOM)

SECTOR	ANTENNA TYPE	RAD CTR.	AZI.	RRH'S		TRANSMISSION CABLES
				QTY.	TYPE	
A1	NNH4-65B-R4	71'	70	1	4490 B5/ B12	24 PAIR FIBER (TYP.-1) 6 GAUGE DC POWER (TYP.-3) IN 2" INNERDUCT (TYP.-1) TOTAL LENGTH: 75'
				1	-	
A2	NNH4-65B-R3-UPM-V2	71'	70	1	4494 B14/ B29	
				1	4890 B25/66	
A3	-	-	-	-	-	
				-	-	
A4	-	-	-	-	-	
				-	-	
B1	NNH4-65B-R4	71'	170	1	4490 B5/ B12	
				1	-	
B2	NNH4-65B-R3-UPM-V2	71'	170	1	4494 B14/ B29	
				1	4890 B25/66	
B3	-	-	-	-	-	
				-	-	
B4	-	-	-	-	-	
				-	-	
C1	NNH4-65B-R4	71'	290	1	4490 B5/ B12	
				1	-	
C2	NNH4-65B-R3-UPM-V2	71'	290	1	4494 B14/ B29	
				1	4890 B25/66	
C3	-	-	-	-	-	
				-	-	
C4	-	-	-	-	-	
				-	-	

NOTES

1. PLUMBING DIAGRAM AND BILL OF MATERIALS BASED ON RFDS DATED 04.29.2025.



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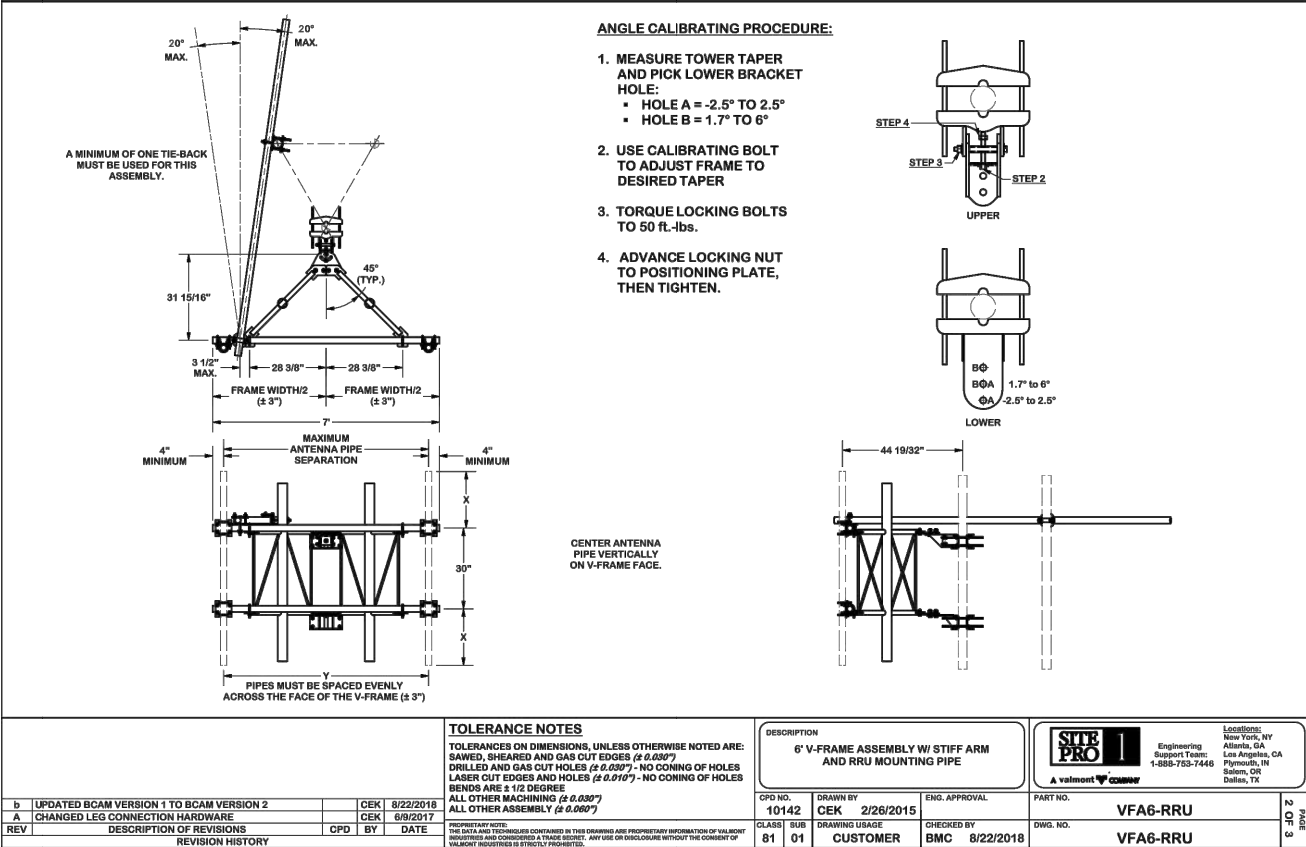
PROJECT NUMBER: GT.015.0032
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SHEET TITLE

ANTENNA MOUNT & RRU MOUNT DETAILS

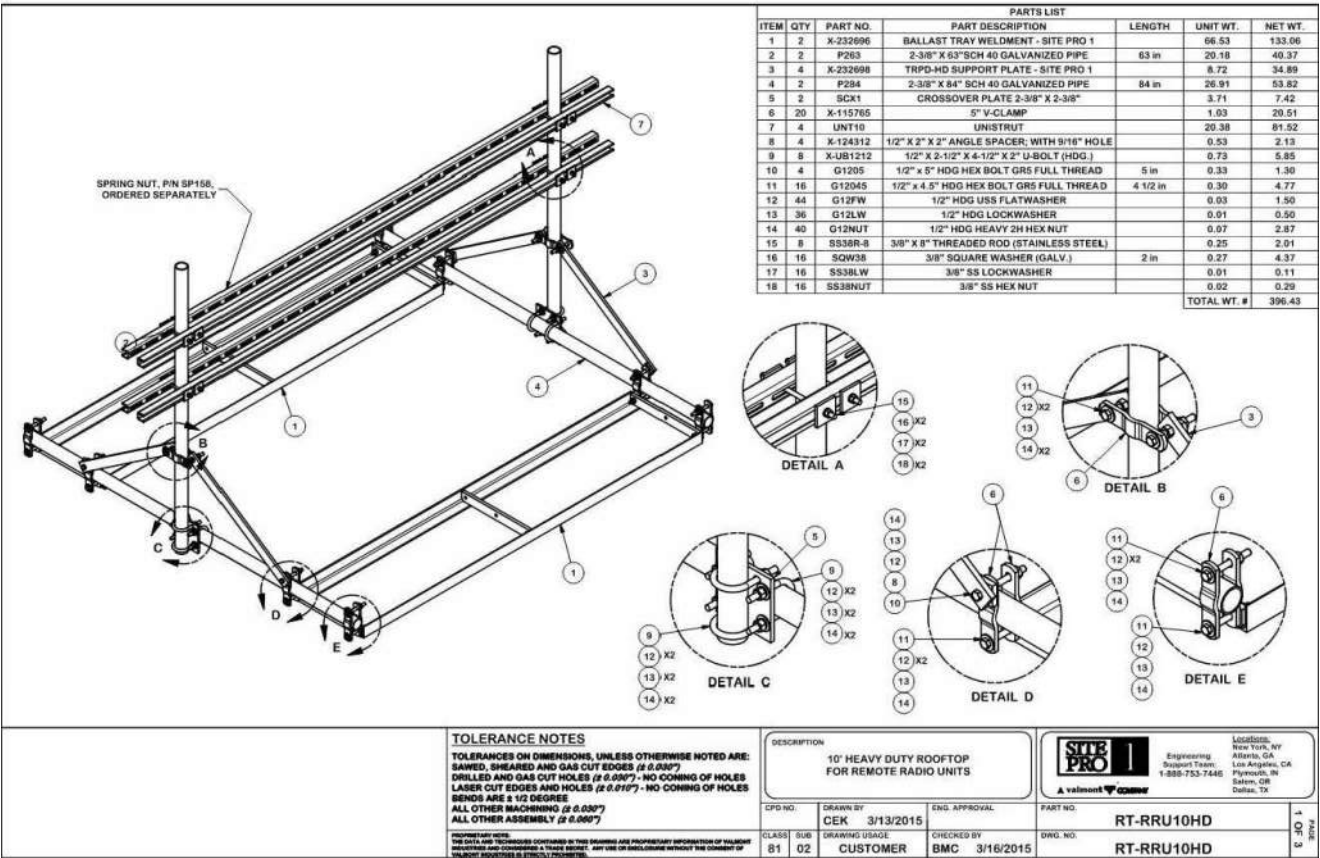
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A10



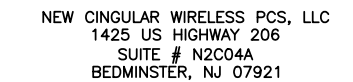
01 ANTENNA MOUNT DETAIL

SCALE: N.T.S.



02 RRH MOUNT DETAIL

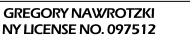
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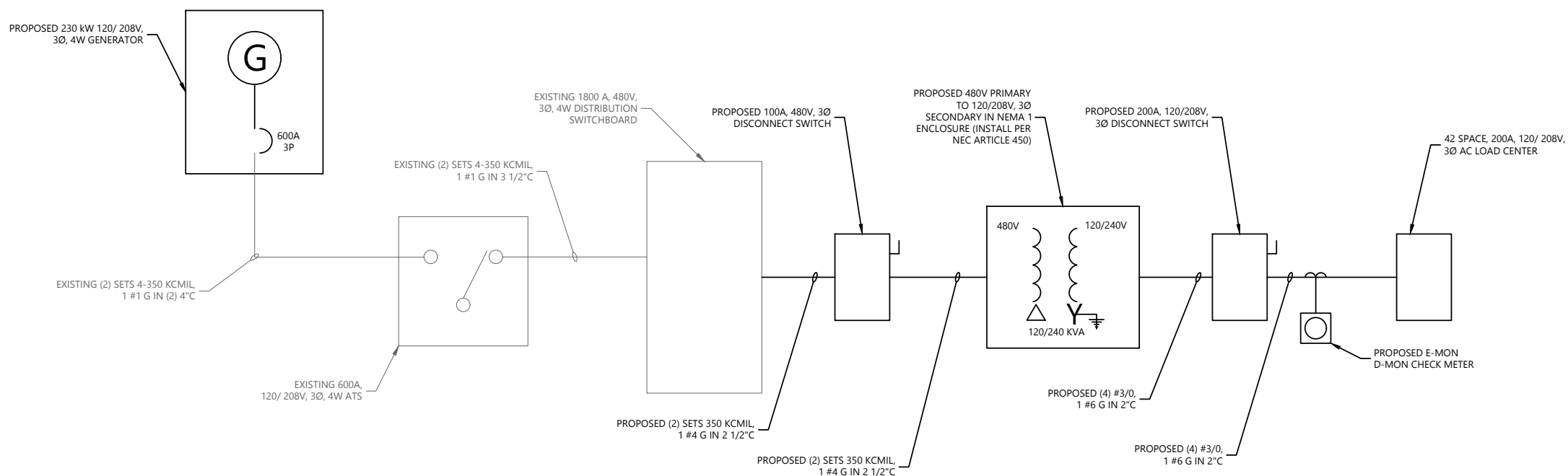
PROJECT NUMBER:	GT.015.0032
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SHEET TITLE

ELECTRICAL RISER DIAGRAM

SHEET NUMBER

E01



CONDUIT NOTES

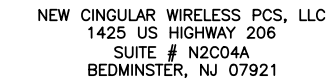
1. ALL BURIED CONDUIT: PVC
2. ALL EXTERIOR CONDUIT: RGS
3. INTERIOR CONDUIT IN PROTECTED AREA: EMT
4. INTERIOR CONDUIT IN EXPOSED AREA: RGS
5. EXPANSION JOINTS TO BE INSTALLED AT EACH INTERIOR/ EXTERIOR WALL PENETRATION.

NOTES

1. CONTRACTOR TO CONFIRM ALL EQUIPMENT TO BE USED WITH CM PRIOR TO CONSTRUCTION.
2. CONFIRM GENERATOR WIRING AND CONTROLS PRIOR TO CONSTRUCTION
3. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER REQUIREMENTS.
4. ELECTRICIAN TO PERFORM LOAD STUDY PRIOR TO CONSTRUCTION TO CONFIRM USE OF EXISTING DISTRIBUTION PANEL
5. CONTRACTOR IS TO CONFIRM THAT DISTRIBUTION PANEL BREAKER POSITION IS PROPERLY BUSSED. IF POSITION IS NOT BUSSED, CONTRACTOR TO TAP EXISTING ELECTRICAL BUS AND PROVIDE A FUSED DISCONNECT WITHIN 10' OF DISTRIBUTION PANEL.

01 ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.



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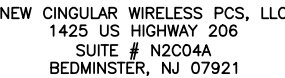
ELECTRICAL NOTES

E02

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
3. HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
5. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NFWU.
8. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
9. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES

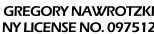
10. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
11. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
12. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
13. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
14. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
15. ALL CONDUCTORS SHALL BE COPPER.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY NEC.
18. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
19. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, M PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
20. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND, THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE

21. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.
22. WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY STATED OTHERWISE ON DRAWINGS.
23. VERIFY ALL CONDUIT ROUTING W/OWNER REP. & CM PRIOR TO CONSTRUCTION.
24. ALL MATERIALS SHALL BE U.L. LISTED.
25. CONDUIT:
 - a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL. FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - d. CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILINGS OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
26. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
27. COORDINATE THE ELECTRICAL SERVICE SHUTDOWN WITH BUILDING OWNER.



56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

**CROTON-ON-HUDSON
FA # 14652291
SITE ID # NW/L06362
1 VAN WYCK STREET
CROTON-ON-HUDSON, NY
10520**



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CONSTRUCTION DRAWINGS

0	06.26.25	ISSUED FOR CONSTRUCTION
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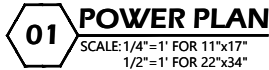
PROJECT NUMBER:	GT.015.0032
DRAWN BY:	OSN
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SHEET TITLE

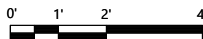
POWER & LIGHTING PLANS

SHEET NUMBER

E03



SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



NEMA 1

PANEL SCHEDULE

22,000 VA

W/200A MAIN C/B 208/120V 1Ø 3W - 10 KAIC							
CKT #	DESCRIPTION	VA	AMP	AMP	DESCRIPTION	VA	CKT #
1	RECTIFIERS #1 & 2	3100	30	30	RECTIFIERS #3 & 4	3100	2
3							4
5	RECTIFIERS #5 & 6	3100	30	30	RECTIFIERS #7 & 8	3100	6
7							8
9	RECTIFIERS #9 & 10	3100	30	30	RECTIFIERS #11 & 12	3100	10
11							12
13	RECTIFIERS #13 & 14	3100	30	30	RECTIFIERS #15 & 16	3100	14
15							16
17	HVAC UNIT #1	832	15	15	HVAC UNIT #2	832	18
19							20
21	CONDENSER #1	4784	35	35	CONDENSER #2	4784	22
23							24
25	LIGHTS/ EXIT SIGN	180	20	20	OUTLETS	1080	26
27	BLANK	1000	20	20	HVAC CONTROLLER (LEAD LAG)	240	28
29	BLANK	600	20	20	ALARMS	180	30

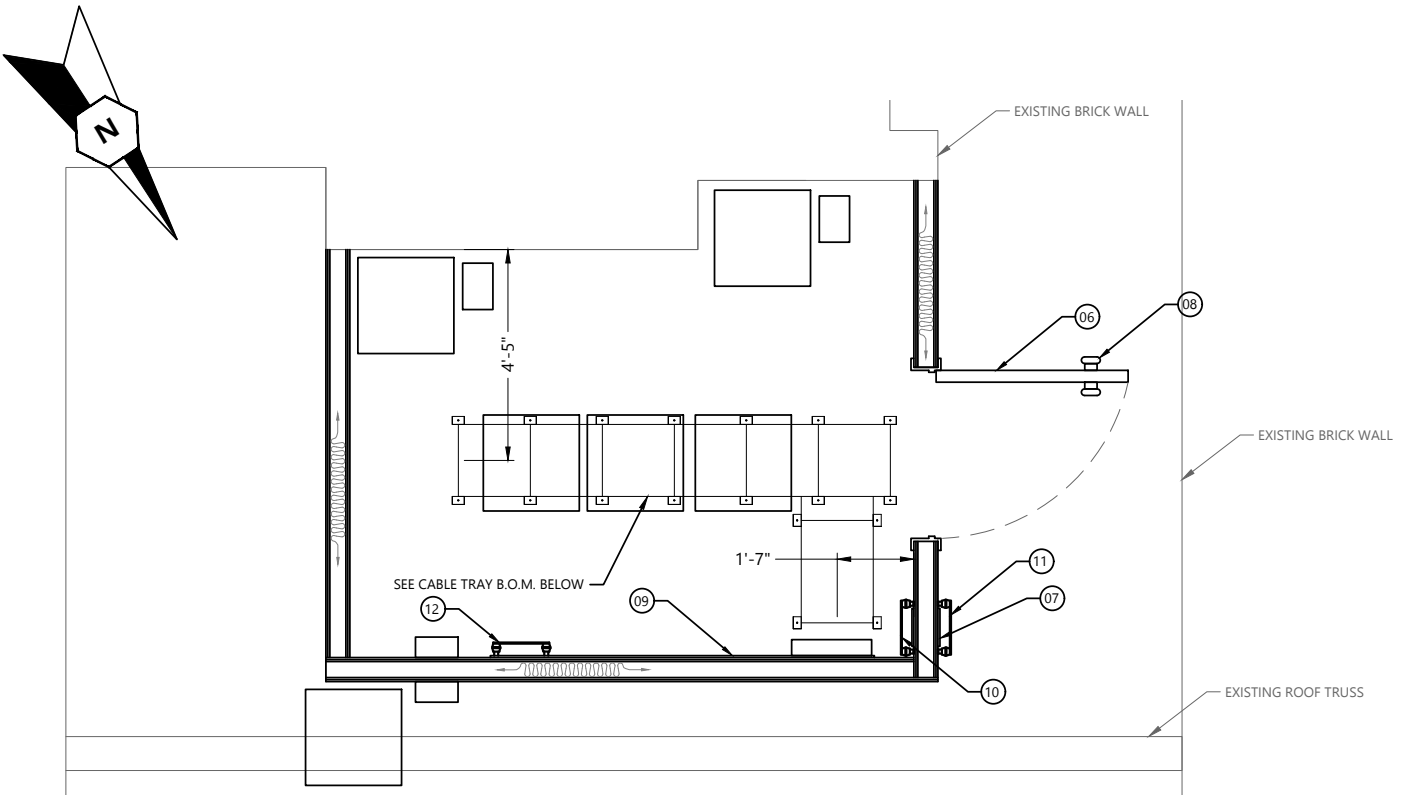
TOTAL CONNECTED LOAD = 37,712 VA

WIRE & CONDUIT SPECIFICATIONS	
	2#12 & 1#12G IN 3/4" C (EMT)
	3#12 & 1#12G IN 3/4" C (EMT)

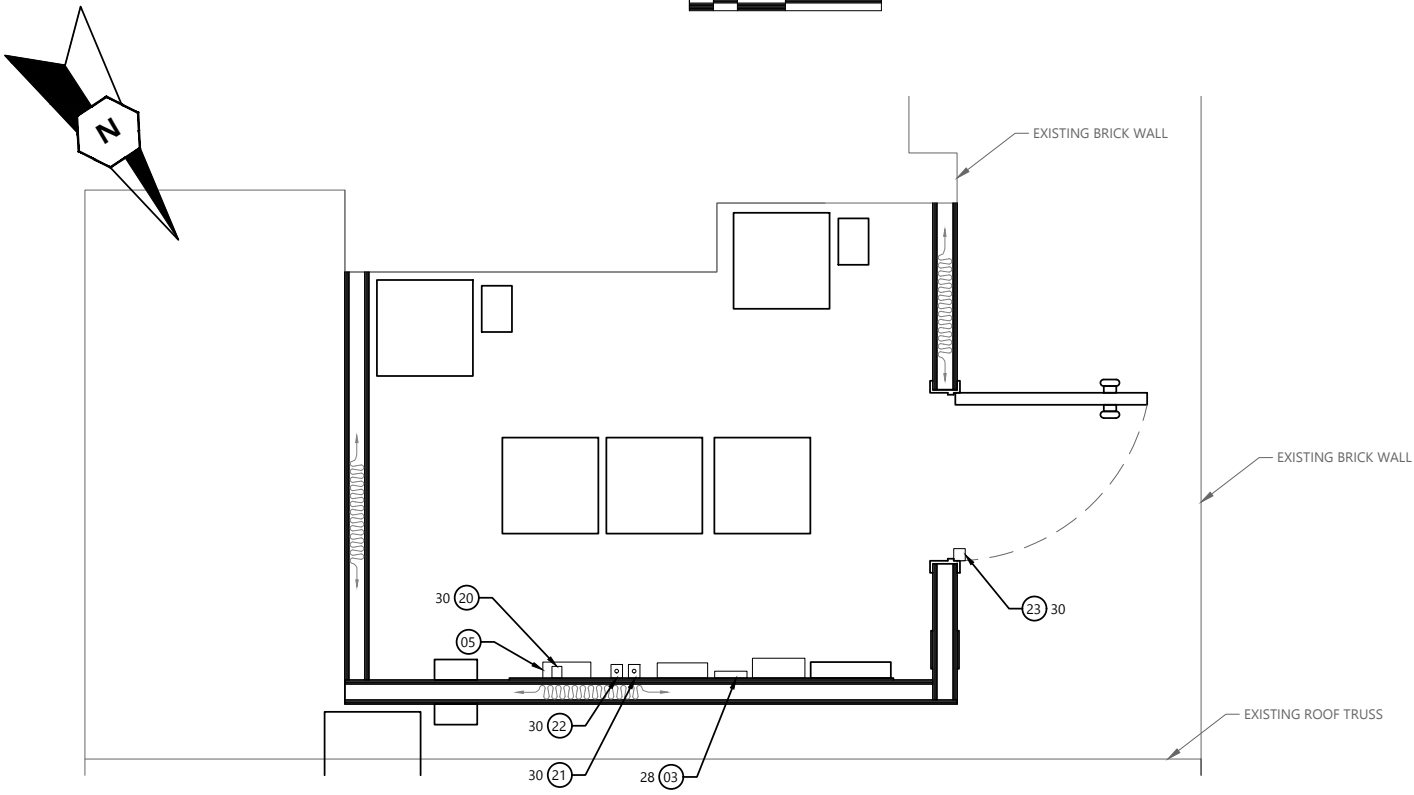
NOTES

- # :-REFER TO SHEET E02 FOR BILL OF MATERIALS.
- # :-REFER TO THIS SHEET FOR POWER PANEL SCHEDULE

FOR RISER DIAGRAM SEE SHEET E01



01 CABLE TRAY PLAN
SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



02 ALARM PLAN
SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



BILL OF MATERIALS	
01	HVAC-1, 3 TON RUUD P/N RH1T36 (SEE PAGE M02)
02	HVAC-2, 3 TON RUUD P/N RH1T36 (SEE PAGE M02)
03	CONTROLLER, LEADLAG, MARVAIR (SEE PAGE M03)
04	42 SPACE, 200A, 120/ 240V, 3Ø AC LOAD CENTER (SQUARE D P/N QO342MQ200)
05	TELCO ALARM BOX 16"x12"x16" NEMA 1
06	3'-6"X7' DOOR, FRAME, AND HARDWARE (SEE CONSTRUCTION NOTE 3 ON G01)
07	SITE PRO 1 COAX ENTRY, 3 PORT, P/N E1635 SEE DETAIL 2/A06
08	LOCK PUSHBUTTON COMBO (CONFIRM W/ AT&T CM)
09	TELCO BOARD, 3/4"x4'-0"x8'-0" AC PAINTED WHITE
10	MASTER GROUND BAR 1/4"x4"x24" TINNED (4'-6" A.F.F.)
11	EXTERIOR CABLE ENTRY GROUND BAR, 4"x24"x1/4"
12	TELCO GROUND BAR, 2"x14"x1/4"
13	QUAD RECEPTACLES, 20 AMP - TWO(2) HUBBELL P/N 5362W W/ P82W PLATE
14	RECEPTACLE, 20A, 120V, TWISTLOCK - HUBBELL P/N 2310 W/ P720W PLATE
15	HOFFMAN #A-SE15X15X4NK, 15"x15"x4" SCREW COVER JUNCTION BOX
16	INTERIOR LIGHT SWITCH, 20 AMP HUBBELL P/N 1221 W/ P/N P1N WALL PLATE
17	INTERIOR LIGHT FIXTURES, 4' FLUORESCENT,W/BULB T8 ELECTRONIC BALLAST LITHONIA P/N LB 2 32 120 GEB
18	EMERGENCY LIGHT/EXIT SIGN, LITHONIA QUANTUM PN H2MSWIG120SSB
19	4"x4" JUNCTION BOX
20	ALARM BLOCK, 52 TERMINAL
21	HIGH TEMPERATURE ALARM, DAYTON 2E206
22	LOW TEMPERATURE ALARM, DAYTON 2E206
23	MAGNETIC DOOR ALARM CONTACTS
24	CONDENSATE PUMP, McMASTER CARR P/N 99575K41-120V, SINGLE PHASE (SEE SHEET M01)
25	200A, 120/208V, 3Ø DISCONNECT (SQUARE D P/N CD324NRB)
26	100A, 480V, 3Ø DISCONNECT (SQUARE D P/N H363)
27	480V PRIMARY TO 120/ 208V SECONDARY 3Ø TRANSFORMER (SQUARE D P/N EXN15T6HCT)

CABLE TRAY PARTS-BOM	
NEWTON INSTRUMENTS #A-2213, CEILING HANGER BRACKET	
NEWTON INSTRUMENT #3010-8, 3/8"x1 3/4" CAP SCREW	
NEWTON INSTRUMENT 5/8"-11 THREADED ROD	
NEWTON INSTRUMENT #3014-8, 5/8"-11 NUT	
NEWTON INSTRUMENT #3029-1, HANGER BRACKET	
NEWTON INSTRUMENT #3014-6, NUT	
NEWTON INSTRUMENT #A-1589, SPLICE CLAMP	
NEWTON INSTRUMENT #3017-2, BOLT	
NEWTON INSTRUMENT #3018-4, 5/8" EXPANSION SHIELD	
NEWTON INSTRUMENT #2003-23, 18-INCH CABLE TRAY	
NEWTON INSTRUMENT #A-1592, CORNER CLAMP	
NEWTON INSTRUMENT #3017-1, BOLT	
NEWTON INSTRUMENT #2085-8, 18" END CLOSING BAR	

* CONTRACTOR CAN SUBSTITUTE PARTS AS NEEDED TO COINCIDE W/ AT&T SPECS.



NEW CINGULAR WIRELESS PCS, LLC
1425 US HIGHWAY 206
SUITE # N2C04A
BEDMINSTER, NJ 07921



**WIRELESS
ENGINEERING**

56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

CROTON-ON-HUDSON
FA # 14652291
SITE ID # NWL06362
1 VAN WYCK STREET
CROTON-ON-HUDSON, NY
10520



GREGORY NAWROTZKI
NY LICENSE NO. 097512

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CONSTRUCTION DRAWINGS

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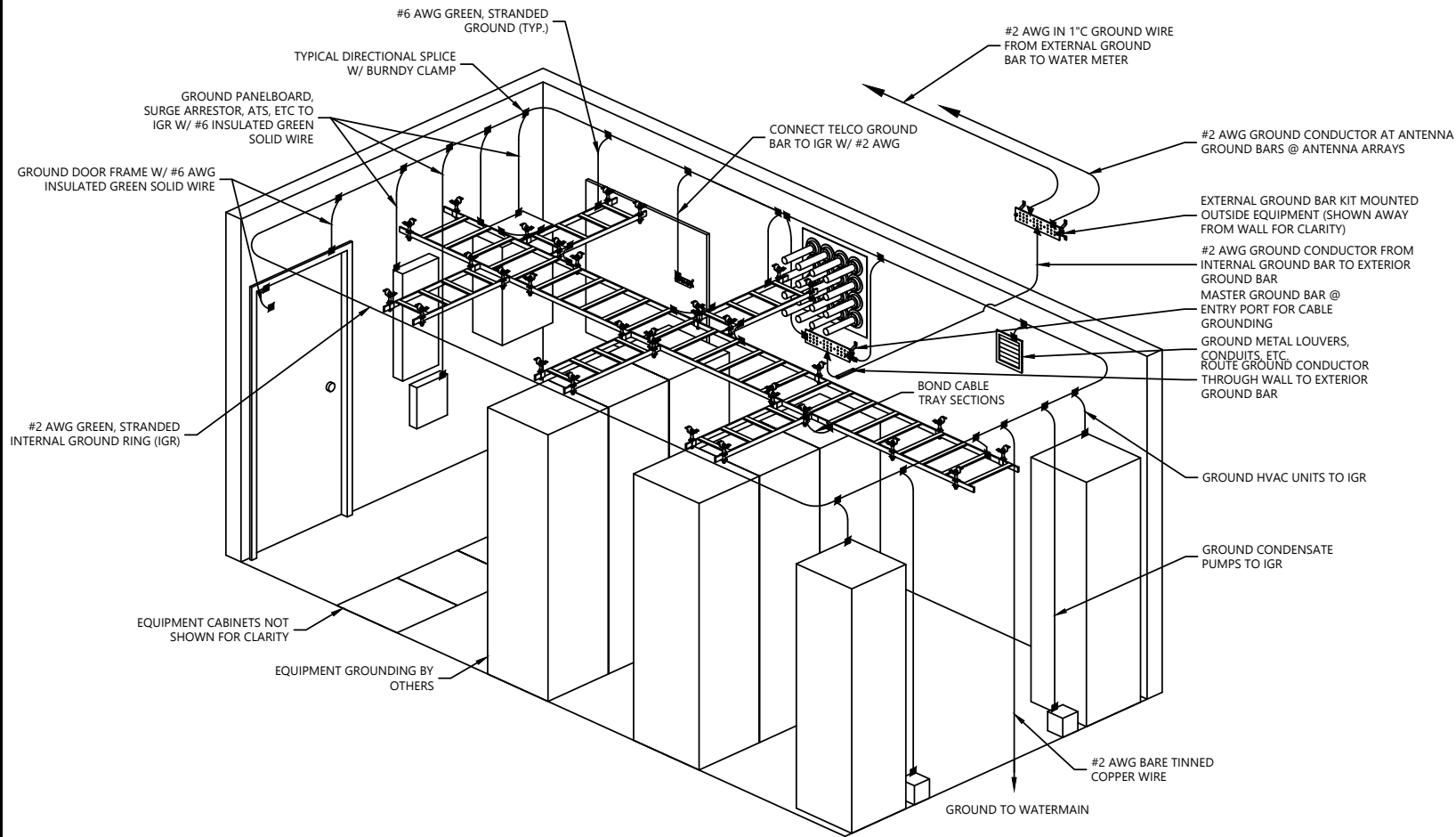
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SHEET TITLE

**CABLE TRAY &
ALARM PLANS**

SHEET NUMBER

E04

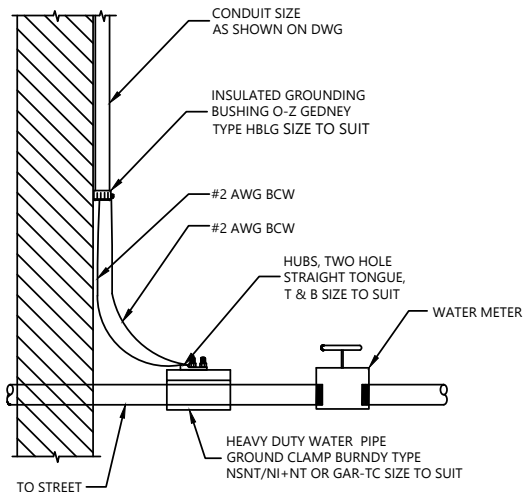


NOTES

1. ROOM LAYOUT IS NOT REPRESENTATIVE OF ACTUAL ROOM. FOR ACTUAL LAYOUT SEE PAGE E02.

GROUNDING LEGEND	
SYMBOL	DESCRIPTION
▶	EXOTHERMIC WELD
■	MECHANICAL CONNECTION

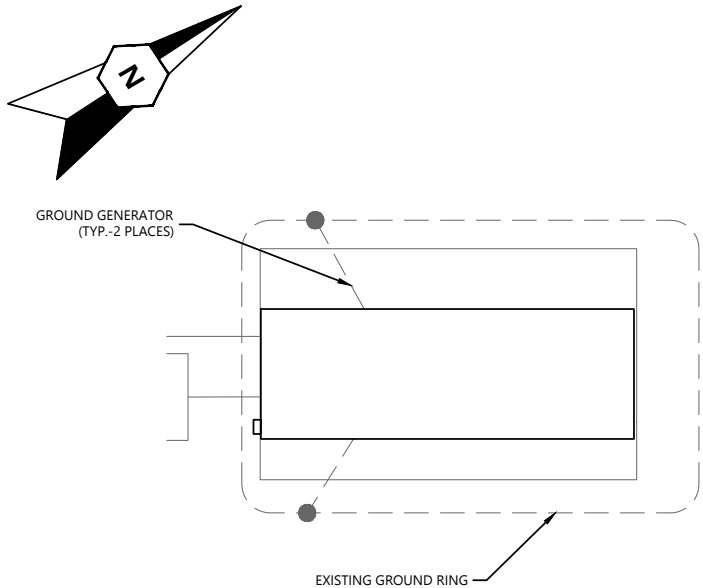
01 EQUIPMENT ROOM GROUNDING SCHEMATIC
SCALE: N.T.S.



NOTES

1. BURNDY TYPE GROUND CLAMP SHOULD BE ATTACHED ON STREET SIDE OF WATER CUT-OFF. VALVE IS INSULATED BETWEEN WATER METER & STREET GROUNDING CLAMP SHOULD BE ATTACHED TO STREET SIDE.

02 WATER METER GROUNDING DETAIL
SCALE: N.T.S.



03 GENERATOR PLAN
SCALE: N.T.S.



NEW CINGULAR WIRELESS PCS, LLC
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WIRELESS
ENGINEERING

56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

CROTON-ON-HUDSON
FA # 14652291
SITE ID # NWL06362
1 VAN WYCK STREET
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10520



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CONSTRUCTION DRAWINGS

0	06.26.25	ISSUED FOR CONSTRUCTION
A	01.02.25	PRELIMINARY

PROJECT NUMBER: GT.015.0032
DRAWN BY: OSN
CHECKED BY: GHN

SHEET TITLE

GROUNDING PLAN &
DETAILS

SHEET NUMBER

E05

1. ALL DOWN CONDUCTORS AND THE GROUND RING CONDUCTOR SHALL BE #2 AWG. SOLID, BARE, TINNED COPPER, UNLESS OTHERWISE NOTED. ALL CONNECTIONS TO GROUND RING SHALL BE EXOTHERMICALLY WELDED. CONDUCTOR SHALL BE AT A MINIMUM DEPTH BELOW GRADE OF 18 INCHES OR TO LEDGE. MINIMUM BEND RADIUS SHALL BE 8 INCHES. CONDUCTOR SHALL BE AT LEAST 24 INCHES FROM ANY FOUNDATION, UNLESS OTHERWISE NOTED.
2. GROUND RODS SHALL BE 5/8" DIAMETER COPPER CLAD, HARGER, T&B, ERICO, OR EQUIVALENT. TOP OF ROD SHALL BE A MINIMUM OF 18" BELOW GRADE. IF LEDGE IS ENCOUNTERED, INSTALL GROUND ROD AT AN ANGLE. ELECTRICAL METER GROUND ROD EXCEPTED.
3. WHERE MECHANICAL CONNECTIONS ARE SPECIFIED, BOLTED, COMPRESSION-TYPE, CLAMPS OR SPLIT-BOLT TYPE CONNECTORS SHALL BE USED.
4. GRIND OFF GALVANIZING IN AFFECTED AREA. EXOTHERMICALLY WELD #2 CONDUCTOR AT 6" ABOVE GRADE OR FOUNDATION, WHICHEVER IS HIGHER. COLD-GALV AFTER. EXOTHERMICALLY WELD OTHER END TO GROUND RING.
5. INSTALL GROUNDING KITS AT ANTENNA CENTERLINE, AND TOWER EXIT POINTS. GROUND COAX LINES, EXOTHERMICALLY WELD #2 DOWN CONDUCTOR TO PLATES, RUN DOWN TOWER, AND TIE INTO GROUNDING SYSTEM.
6. ALL GROUNDING WORK SHALL COMPLY WITH AT&T CONSTRUCTION CONTRACT STANDARDS. FOLLOWING COMPLETION OF WORK, GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS SUBMIT AN INDEPENDENT "FALL POTENTIAL" TESTING REPORT.
7. ALL GROUNDING CONDUCTORS ON EXTERIOR WALL OF SHELTER SHALL BE INSTALLED IN 3/4" SCH 40 PVC CONDUIT TO 12" BELOW GRADE. ATTACH PVC WITH GALVANIZED "C" CLAMPS.
8. CONTRACTOR SHALL HAND-DIG IN AREAS AROUND EXISTING UTILITIES.
9. NOTIFY CONSTRUCTION ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
10. GROUNDING RING IS SHOWN AS SCHEMATIC ONLY. IT IS DESIGNED WITHOUT BENEFIT OF RESISTIVITY TESTING AND DOES NOT NECESSARILY REPRESENT A GROUNDING SYSTEM TO MEET ANY SPECIFIC GROUND RESISTANCE.
11. PRIOR TO POURING CONCRETE, ALL REBAR LOCATED NEAR THE BOTTOM OF THE FOUNDATION SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE, BY STEEL TIES OF OTHER EFFECTIVE MEANS APPROVED BY NEC 2011 AND STRUCTURAL ENGINEER, AND BONDED TO THE GROUND RING AS DETAILED IN THESE PLANS. (INSPECTION MAY BE REQUIRED PRIOR TO POURING CONCRETE AND MUST BE COORDINATED BY CONTRACTOR.)
12. IN ACCORDANCE WITH NEC 2011 REQUIREMENTS, ALL GROUNDING ELECTRODES PRESENT ON SITE SHALL BE BONDED TOGETHER (REFERENCE 2011 NEC ARTICLE 250.50).
13. CAULK AND SEAL ALL NON-FACTORY SHELTER PENETRATIONS.

1. CUT AND REMOVE A 2" SECTION OF CABLE JACKET SHOWN IN FIGURE #1. USE CARE NOT TO GOUGE OR CRUSH THE CABLE.
2. CLEAN THE EXPOSED SURFACE OF THE OUTER CONDUCTOR WITH BRONZE OR STEEL WOOL UNTIL THE SURFACE IS CLEAN AND BRIGHT. ALSO CLEAN 1" OF THE JACKET EACH SIDE OF THE CUT SURFACE WITH A CLEAN CLOTH.
3. WRAP THE COPPER GROUNDING CLAMP AROUND THE EXPOSED OUTER CONDUCTOR. SECURE THE GROUNDING CLAMP WITH THE STAINLESS STEEL HOSE CLAMP AS SHOWN IN FIGURE #1 AND #2.
4. ATTACH THE TWO HOLE GROUNDING LUG TO THE CABLE GROUNDING CLAMP WITH 1/4"-20 HARDWARE. SEE FIGURE #2.
5. CLEAN THE SURFACE THOROUGHLY WHERE THE SINGLE HOLE GROUNDING LUG IS TO BE CONNECTED. THE GROUNDING SURFACE MUST BE CLEAN OF ANY PAINT, GREASE, RUST OR OXIDATION FOR A GOOD ELECTRICAL CONTACT. THE GROUNDING SURFACE SHOULD BE A METAL TOWER MEMBER OR DOWN CONDUCTOR LOCATED BELOW THE GROUNDING CLAMP. THE GROUNDING WIRE SHOULD BE RUN STRAIGHT DOWN - NO DRIP LOOP. SEE FIGURE #2.
6. BOLT THE GROUNDING LUG ONTO THE PREPARED SURFACE WITH A 3/8" - 16 HARDWARE. AFTER TIGHTENING, PAINT THE GROUNDING LUG AND SURROUNDING AREA WITH A ZINC BASED CORROSION CONTROL PAINT.

1. ALL TESTING SHALL HAVE RESISTANCE OF 5 OHMS OR LESS.
2. EGR TESTING SHALL BE 5 OHMS OR LESS. IF A READING OF 5 OHMS OR LESS IS UNATTAINABLE, CONTACT AT&T FOR AN ACCEPTABLE SOLUTION. ANY READINGS OF 5 OHMS OR LESS WILL BE REVIEWED AND CAN BE ACCEPTED IN WRITING BY CLIENT. THE CLIENT WILL BE ACCOUNTABLE FOR ANY UNACCEPTABLE GROUNDING PRACTICES.
3. TEST TO BE PERFORMED *CHECK WITH CLIENT FOR ADDITIONAL TEST THAT MAY BE REQUIRED IN ADDITION TO THE FOLLOWING:
 - a. CONTINUITY FROM MGB TO EGR
 - b. CONTINUITY TO GROUND RODS

SUBMIT AN INDEPENDENT "FALL-OF-POTENTIAL METHOD" TESTING REPORT. THREE SETS OF TEST DATA TO BE RECORDED AND SUBMITTED TO CELL SITE CARRIER.

ALL ABOVE GROUND CONNECTIONS SHALL BE CADWELD, UON. CRIMP CONNECTORS SHALL NOT BE USED ON SOLID CONDUCTORS. CADWELD MUST BE USED FOR FENCE CONNECTION.

WHERE GROUND CONNECTIONS ARE MADE THE CONTACT POINTS SHALL BE THOROUGHLY CLEANED AND MADE FREE OF FOREIGN MATERIAL SUCH AS PAINT AND CORROSION, TO ENSURE ADEQUATE BOND.

GROUNDING CONDUCTOR SHALL NOT PASS THROUGH METAL CONDUIT. ALL #1/0 AND #2 TINNED COPPER WIRES SHALL BE IN 1 1/4" PVC AND 3/4" PVC RESPECTIVELY, UNLESS OTHERWISE NOTED.

ALL GROUNDING CONNECTIONS TO THE GROUND BAR OR GROUND PLATE SHALL BE MADE WITH DOUBLE HOLE HYDRAULICALLY INDENTED STAINLESS STEEL LUGS.

GROUND CONNECTIONS TO ANTENNA MAST SHALL BE MADE WITH HEAVY DUTY GROUND CLAMPS SIMILAR TO BURNDY OR APPROVED EQUAL.

INSULATED COPPER GROUND WIRE SHALL BE COPPER, TYPE THHN/THWN COLOR CODED GREEN.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MISCELLANEOUS CONNECTIONS TO EGR.

ALL DETAILS ARE SHOWN DIAGRAMMATICALLY, ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.

ALL GROUNDING CONDUCTORS SHALL BE SOFT-DRAWN BARE TINNED COPPER, UNLESS OTHERWISE NOTED.

GROUND SYSTEM MUST BE TESTED BEFORE AND AFTER AND SHALL HAVE A RESISTANCE OF 5 OHMS. CONTRACTOR TO SUBMIT AN INDEPENDENT "FALL-OF-POTENTIAL METHOD" TESTING REPORT.

ANTI OXIDANT COMPOUND SHALL BE APPLIED TO ALL GROUNDING CONNECTIONS (CTAPS, MAIN GND, MGB, ETC.).

THE CONNECTIONS TO THE MASTER GROUND BAR MUST FOLLOW THE PAN 1 METHOD. SEE SPECIFICATIONS.

THE GROUND RUN SHALL FOLLOW A DOWNWARD PATH FROM THE ANTENNAS TO THE MASTER GROUND BAR.

ALL CONNECTIONS SHALL BE MADE WITH A 8" RADIUS MINIMUM.

ANY GROUND WIRES, SOLID OR STRANDED THAT PASS THROUGH CONDUIT, METALLIC SLEEVE, OR CABLE COVER, SHALL BE BONDED AT BOTH ENDS.

WHERE CABLE COVERS ARE NON-CONTINUOUS, BOND ADJOINING COVERS WITH A #2 SOLID TINNED COPPER WITH A 2 HOLE LUG.

ALL ELECTRICAL GROUNDING SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS FOUND IN THE CURRENT VERSION OF THE NATIONAL ELECTRIC SAFETY CODE (NECS), SECTION 9, GROUNDING METHODS FOR ELECTRIC SUPPLY AND COMMUNICATIONS FACILITIES.



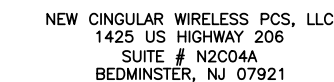
- ## 01 GROUNDING SCHEMATIC - NSB



SCALE: N.T.S.

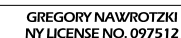






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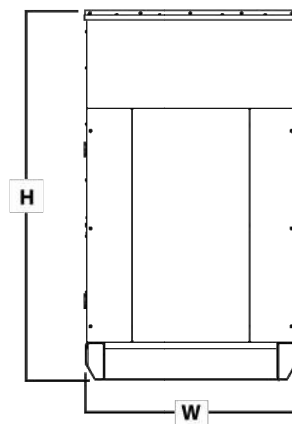
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GENERATOR DETAILS

M01



EPA Certified Stationary Emergency

- Block Heater
- Oil Make-Up System
- Oil Heater
- Industrial Exhaust Silencer (Open Set Only)

- Flexible Fuel Lines
- Primary Fuel Filter

- 10A UL Listed Battery Charger
- Battery Warmer

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

- Extended Factory Testing
- IBC Seismic Certification
- 8 Position Load Center

- o Weather Protected Enclosure
- o Level 1 Sound Attenuated
- o Level 2 Sound Attenuated
- o Steel Enclosure
- o Aluminum Enclosure
- o Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- o AC/DC Enclosure Lighting Kit
- o Spring or Pad Vibration Isolators

- Overfill Protection Valve
- Fuel Fill Drop Tube
- 5 Gal Spill Return Hose
- Tank Risers
- Florida DEP-DERM
- Vent Extensions
- Fire Rated Fuel Hose
- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension

LEVEL 2 SOUND ATTENUATED ENCLOSURE			Weight - lbs (kg)	
Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Enclosure Only Steel	Aluminum
No Tank	-	154.5 (3,923) x 54.0 (1,371) x 93.3 (2,370)		
9	153 (579)	154.5 (3,923) x 54.0 (1,371) x 106.3 (2,700)		
21	372 (1,408)	154.5 (3,923) x 54.0 (1,371) x 118.3 (3,005)		
34	589 (2,230)	154.5 (3,923) x 54.0 (1,371) x 130.3 (3,310)		
29	500 (1,893)	172.6 (4,384) x 54.0 (1,371) x 117.3 (2,980)	1,482 (672)	708 (321)
40	693 (2,623)	154.5 (3,923) x 54.0 (1,371) x 130.3 (3,310)		
55	946 (3,581)	208.3 (5,292) x 54.0 (1,371) x 134.3 (3,410)		
58	1,000 (3,785)	197.8 (5,024) x 54.5 (1,384) x 128.3 (3,259)		
77	1,325 (5,016)	277.8 (7,055) x 54.0 (1,371) x 132.7 (3,370)		



- o NFPA 110 Compliant 21-Light Remote Annunciator
- o Remote Relay Assembly (8 or 16)
- o Remote E-Stop (Break Glass-Type, Surface Mount)
- o Remote E-Stop (Red Mushroom-Type, Surface Mount)
- o Remote E-Stop (Red Mushroom-Type, Flush Mount)
- o 10A Engine Run Relay
- o Ground Fault Annunciator

- 2 Year Extended Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

1. INSTALL GENERATOR PER MANUFACTURER REQUIREMENTS.



MODEL NO.	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
RA1618	27	685	29.75	755	29.75	755	27.375	695	32.25	819	32.25	819
RA1624	27	685	33.75	857	33.75	857	27.375	695	36.25	921	36.25	921
RA1630	27	685	35.75	908	35.75	908	27.375	695	38.25	972	38.25	972
RA1636	31	787	35.75	908	35.75	908	31.375	797	38.25	972	38.25	972
RA1636	31	787	33.75	857	33.75	857	31.375	797	36.25	921	36.25	921
RA1642	39	990	35.75	908	35.75	908	39.375	1000	38.25	972	38.25	972
RA1648	45	1143	35.75	908	35.75	908	45.375	1153	38.25	972	38.25	972
RA1660	51	1295	35.75	908	35.75	908	51.375	1305	38.25	972	38.25	972



SCALE: N.T.S.

AT&T HVAC EQUIPMENT SCHEDULE SPLIT-SYSTEM 1 PHASE B.O.M.	
AIR HANDLER	
MANUFACTURER:	RUUD
MODEL:	RH1T3621MTAN
SYMBOL:	AHU-1 & AHU-2
COOLING (BTU/HR):	36,000
NOMINAL TONS:	3
VOLTAGE:	240
CIRCUIT BREAKER*:	15
CONDENSING UNIT	
MANUFACTURER:	RUUD
MODEL:	RA1636AJ1NA
SYMBOL:	CU-1 & CU-2
COOLING (BTU/HR):	36,000
NOMINAL TONS:	3
ACCESSORIES:	HARD START KIT SK-A1
VOLTAGE:	240
CIRCUIT BREAKER*:	35
CONDENSATE PUMP	
VENDOR:	McMASTER-CARR
MODEL:	99575K41
SYMBOL:	CP-1 & CP-2
VOLTAGE:	240
CIRCUIT BREAKER*:	N/A
* CONTRACTOR SHALL VERIFY BREAKER SIZES WITH MANUFACTURER'S SPECIFICATIONS	

QUALITY ASSURANCE

CONFIRM THAT UNITS WILL NOT INTERFERE WITH "QUIET ENJOYMENT" OF TENANT SPACES ADJACENT TO AND BELOW THE PROPOSED UNITS.

COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

COMPLIANCE: ARI 210,360; ASHRAE 15; ASME CODE.

WARRANTY: WARRANTY FOR HVAC COMPONENTS SHALL BEGIN WHEN THE UNIT IS DELIVERED.

MATERIALS

SPLIT-SYSTEM UNITS: BY RUUD-OUTFITTER PER AT&T SPECIFICATIONS.

COMPRESSORS: ALL COMPRESSORS USED IN THE HVAC UNITS SHALL BE SCROLL-TYPE COMPRESSORS AND SHALL BE SUITABLY EQUIPPED TO START UNDER LOW-AMBIENT TEMPERATURE CONDITIONS.

CONTACTORS: CONTACTORS SHALL BE HEAVY-DUTY DOUBLE POLE DEVICES, DESIGNED FOR HARD STARTS.

CONTROLS: THE HVAC UNITS SHALL BE CONTROLLED BY A STANDARD LEAD-LAG CONTROLLER. THE HVAC UNITS AND THEIR CONTROLS SHALL BE CONFIGURED SUCH THAT NO CONDITION (INCLUDING FAILURE OF THE LEAD-LAG CONTROLLER) WILL ALLOW MORE THAN ONE HVAC UNIT TO START AT THE SAME TIME. CONTROLS SHALL BE DESIGNED SUCH THAT ACTIVATION OF A SMOKE DETECTOR SHALL SHUT DOWN THE ENTIRE HVAC SYSTEM.

STATUS MONITORING: THE SYSTEM SHALL PROVIDE INDICATION (NORMALLY-CLOSED CONTACTS WHICH OPEN ON ALARM CONDITION) THAT A GIVEN UNIT OR UNITS ARE INOPERATIVE.

PUMPS: PROVIDE CONDENSATE PUMPS WITH LIQUID-TIGHT DRAIN PANS ON ALL SPLIT-SYSTEM AIR HANDLERS. COMPLY WITH MANUFACTURERS RECOMMENDATIONS TO SIZE CONDENSATE PUMP BASE ON VERTICAL DISCHARGE HEIGHT AND SITE SPECIFIC CONDITIONS.

PROTECTION: THE SYSTEM SHALL INCLUDE SUITABLE PROTECTION FOR COMPRESSORS SUCH THAT NO COMPRESSOR CAN BE DAMAGED DUE TO HIGH-PRESSURE OR LOW-PRESSURE REFRIGERANT CONDITIONS, LOSS OF REFRIGERANT, OR SHORT-CYCLING.

INSULATION MATERIALS FOR PIPING:

- 1) FLEXIBLE ELASTOMERIC CELLULAR INSULATION: FLEXIBLE EXPANDED CLOSED-CELL STRUCTURE WITH SMOOTH SKIN ON BOTH SIDES; TUBULAR MATERIALS, ASTM C 534, TYPE 1; SHEET MATERIALS, ASTM C 534, TYPE II.
- 2) FIRE PERFORMANCE: TYPE SUITABLE FOR SERVICE.
- 3) VAPOR BARRIER: TYPE SUITABLE FOR SERVICE.
- 4) INSULATION ACCESSORIES: INSULATING CEMENTS, ADHESIVE JACKETS TAPE, BANDS, WIRE, AND SEALING COMPOUNDS SUITABLE FOR SERVICE AND EXPOSURE.

INSTALLATION

INSTALL MATERIALS AND SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK. COORDINATE WITH WORK OF OTHER SECTIONS. COMPLY WITH APPLICABLE REGULATIONS AND CODE REQUIREMENTS. PROVIDE PROPER CLEARANCES FOR SERVICING.

SUPPORT PIPING PROPERLY. PITCH TO DRAIN POINTS. INSTALL WITH PIPE EXPANSION LOOPS, MECHANICAL EXPANSION JOINTS, AND ANCHORS.

MAINTAIN INDICATED FIRE RATINGS OF WALLS, PARTITIONS, CEILINGS AND FLOORS AT PENETRATIONS. SEAL WITH FIRESTOPPING TO MAINTAIN FIRE RATING.

INSTALL REFRIGERANT LINES ON SPLIT-SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSULATE LINES. FOR EXTERIOR APPLICATIONS, USE ULTRAVIOLET-RESISTANT INSULATION. USE PRESSURE-TREATED SLEEPERS TO SUPPORT LINES, A MAXIMUM OF 4 FEET ON CENTER ACROSS ROOFS AND FLAT SURFACES.

CHARGE THE HVAC SYSTEM, TEST FOR LEAKS, AND VERIFY THE UNIT IS FULLY OPERATIONAL. CLEARLY LABEL AND TAG ALL COMPONENTS. TEST AND BALANCE ALL SYSTEMS FOR PROPER OPERATION. REMOVE AND REPLACE UNITS WHICH DO NOT OPERATE PROPERLY AT NO ADDITIONAL EXPENSE TO VERIZON WIRELESS.

RESTORE DAMAGED FINISHES. CLEAN AND PROTECT WORK FROM DAMAGE.

SUBMITTALS

PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.

OPERATION AND MAINTENANCE DATA: SUBMIT MANUFACTURER'S OPERATION AND MAINTENANCE DATA, INCLUDING OPERATING INSTRUCTIONS, LIST OF SPARE PARTS AND MAINTENANCE SCHEDULE.

3. DRAIN PANS SHALL BE CAPABLE OF SUPPORTING AIR-HANDLER UNITS (APPROX. 200# EACH). PANS SHALL SUPPORT CONDENSATE PUMP - PUMP TO BE MOUNTED PER MFR. SPECIFICATIONS TO SUCCESSFULLY PUMP OUT DRAIN PAN THRU 3/4" CWT DISCHARGE WITH CHECK VALVE. DRAIN PAN SHALL BE DETAILD BY CONTRACTOR BUT SHALL MEASURE APPROXIMATELY 4'X3'X4" HIGH.
2. CONTRACTOR SHALL INSTALL 3/4" CWT DRAIN LINE FROM DRAIN CONNECTION OF EACH AIR HANDLER THROUGH A SEAL TRAP (W/PLUG) TO THE CONDENSATE PUMP.
3. INDIVIDUAL 3/4" CWT DISCHARGES FROM EACH CONDENSATE PUMP SHALL BE RUN (PITCHED DOWN) TO EQUIPMENT ROOM EXTERIOR IN A COMMON 1" CWT DRAIN LINE TO AN EXISTING ROOF DRAIN WITH OWNER APPROVAL.
4. COMMON 1" CWT DRAIN LINE SHALL BE RUN ALONG WALL BASE (W/ PROPOSED AIR GAPS PER PLUMBING CODE) TO ROOF DRAIN. EXACT RUN TO BE FIELD DETERMINED WITH OWNER APPROVAL.
5. CONTRACTOR SHALL FURNISH/INSTALL (2) AIR HANDLERS WITH MINIMUM 18" ANGLE STEEL ELEVATED SUPPORT STRUCTURE INSIDE EQUIPMENT ROOM WALLS AS SHOWN - EXACT LOCATION TO BE FIELD DETERMINED WITH OWNER APPROVAL. UNITS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS INCLUDING CONDENSATE DRAINAGE OF NOTE (4).
6. CONTRACTOR SHALL INSTALL 22" x 10" SUPPLY DUCTWORK FROM AIR HANDLERS TOP DISCHARGE TO BRING IN CONDITIONED AIR THRU SUBCONTRACTOR SPECIFIED SUPPLY AIR REGISTER EXACT LOCATIONS TO BE FIELD DETERMINED INCLUDING CONSIDERATION OF EQUIPMENT INSIDE EQUIPMENT ROOM. SUPPLY DUCT WORK TO BE A MINIMUM OF 20 GAUGE GALVANIZED AND SHALL BE INSULATED WITH A MINIMUM OF 1 1/2" THICK FIBERGLASS INSULATION.
* AIR HANDLERS SHALL NOT HAVE ELECTRIC HEAT OR OTHER TYPE OF HEATING UNLESS STATED OTHERWISE BY OWNER, I.E. UNITS ARE FOR AIR CONDITIONING ONLY.
7. RETURN AIR SHALL BE INTRODUCED BACK TO AIR HANDLERS (BOTTOM ENTRANCE) THRU 24" x 24" DUCT WORK LOCATED APPROXIMATELY 12" ABOVE FLOOR ELBOWED UP INTO AIR HANDLER. EXACT LOCATION TO BE FIELD DETERMINED.
8. CONTRACTOR SHALL FURNISH/INSTALL CONDENSING UNITS, MATCHED TO EACH AIR HANDLER. UNITS SHALL BE MOUNTED ON STEEL FRAME W/ RIBBED NEOPRENE VIBRATION INSULATORS ON THE ROOF OF THE BUILDING. CONDENSERS ARE BEING INSTALLED ARE AT A COMPLETELY DIFFERENT LOCATION. UNITS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. CONTRACTOR SHALL INSTALL 7/8" VAPOR AND 3/8" LIQUID REFRIGERANT TUBING FROM AIR HANDLERS TO CONDENSING UNITS - EXACT LOCATIONS INCLUDING REQUIRED WALL/CEILING PENETRATIONS (WITH PROPER SEALING) SHALL BE FIELD DETERMINED WITH OWNER APPROVAL. 1" THICK ARMAFLEX INSULATION SHALL BE INSTALLED ON LIQUID REFRIGERANT COOLING LINE.
9. CONTRACTOR SHALL INSTALL THERMOSTATS, BOXES, SMOKE DETECTORS, TIME CLOCK, AND ASSOCIATED TO CONTROL AIR HANDLER OPERATIONS IN MAINTAINING REQUIRED EQUIPMENT ROOM TEMPERATURE. ALL WORK OF UTILIZING STRAIGHT THRU, ONE-ON-ONE THERMOSTATS TO BE DONE ONLY WITH OWNER APPROVAL.
10. ALL A/C PIPING IN EQUIPMENT ROOM MUST BE INSULATED TO PREVENT SWEATING.
11. CONTRACTOR TO VERIFY ALL PIPING SIZE WITH MANUFACTURER PRIOR TO INSTALLATION.
12. SEE SHEET BELOW FOR SPLIT-SYSTEM GENERAL NOTES.
13. DUCTWORK TO BE CONSTRUCTED OF GALVANIZED SHEETMETAL IN ACCORDANCE W/ "SMACNA" 2" PRESSURE CLASS.



AIROSMITH
DEVELOPMENT

GT
**WIRELESS
ENGINEERING**
56 DEARBORN DRIVE
OLD TAPPAN, NJ 07675

**CROTON-ON-HUDSON
FA # 14652291
SITE ID # NWL06362
1 VAN WYCK STREET
CROTON-ON-HUDSON, NY
10520**



GREGORY NAWROTZKI
NY LICENSE NO. 097512

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

CONSTRUCTION DRAWINGS

0	06.26.25	ISSUED FOR CONSTRUCTION
A	01.02.25	PRELIMINARY

PROJECT NUMBER: GT.015.0032

DRAWN BY: OSN

CHECKED BY: GHN

SHEET TITLE

MECHANICAL DETAILS - I

SHEET NUMBER

M02

